

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG051319\  
 Data File : BG040913.D  
 Acq On : 13 May 2019 16:16  
 Operator : HP/JU  
 Sample : k2823-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 10-B2

Quant Time: May 14 01:47:11 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG042319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 24 05:35:33 2019  
 Response via : Initial Calibration

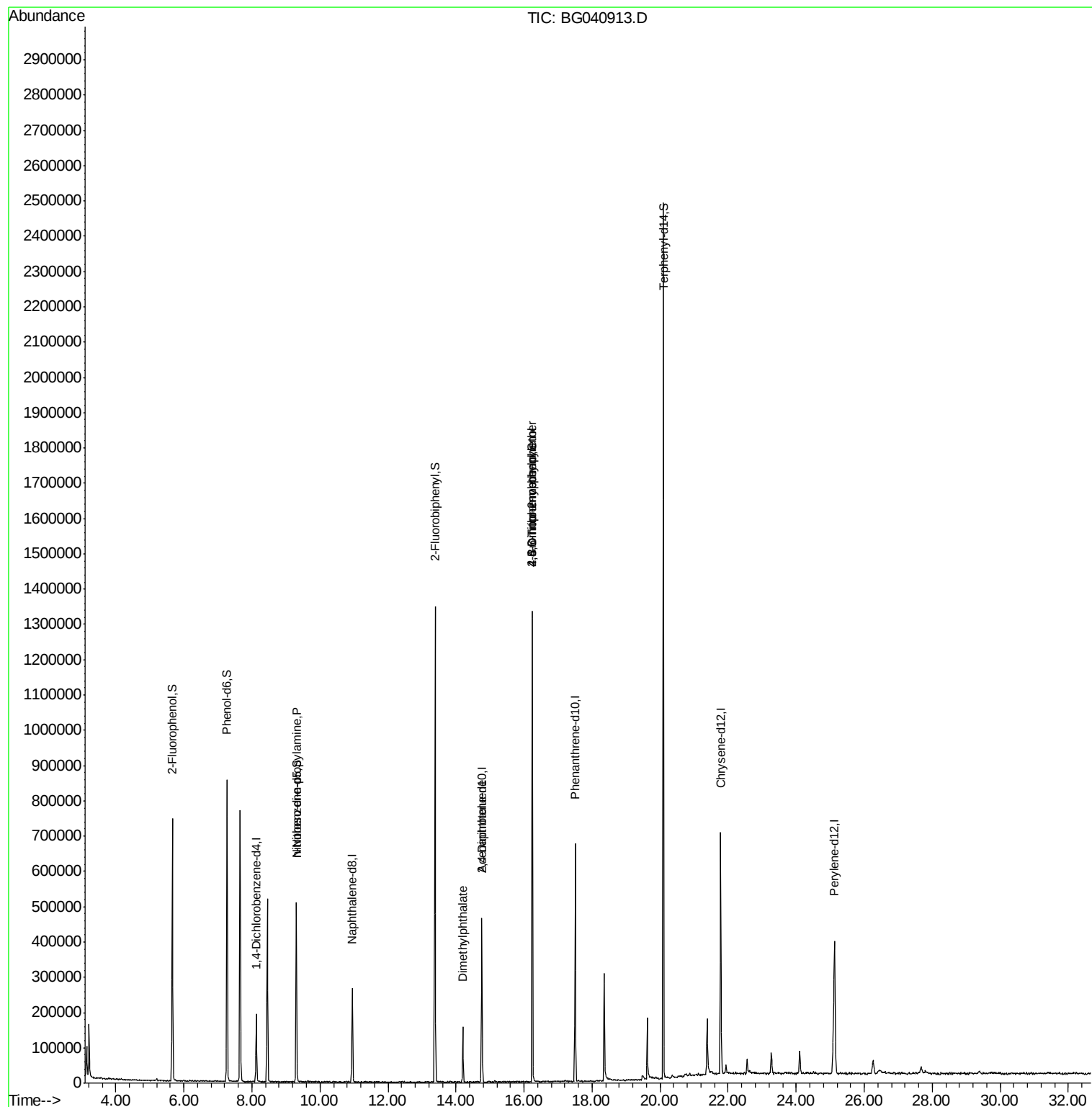
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.13  | 152  | 49634    | 20.00     | ng     | -0.03    |
| 21) Naphthalene-d8             | 10.95 | 136  | 208989   | 20.00     | ng     | -0.03    |
| 39) Acenaphthene-d10           | 14.76 | 164  | 160656   | 20.00     | ng     | -0.03    |
| 64) Phenanthrene-d10           | 17.50 | 188  | 417529   | 20.00     | ng     | -0.03    |
| 76) Chrysene-d12               | 21.78 | 240  | 425429   | 20.00     | ng     | -0.05    |
| 87) Perylene-d12               | 25.12 | 264  | 458184   | 20.00     | ng     | -0.08    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.66  | 112  | 290173   | 103.06    | ng     | -0.02    |
| 7) Phenol-d6                   | 7.27  | 99   | 436887   | 100.77    | ng     | -0.03    |
| 23) Nitrobenzene-d5            | 9.31  | 82   | 301931   | 66.76     | ng     | -0.03    |
| 42) 2,4,6-Tribromophenol       | 16.24 | 330  | 258215   | 116.93    | ng     | -0.03    |
| 45) 2-Fluorobiphenyl           | 13.38 | 172  | 693375   | 62.33     | ng     | -0.03    |
| 79) Terphenyl-d14              | 20.09 | 244  | 1196272  | 62.30     | ng     | -0.04    |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 7.27  | 77   | 1095     | Below Cal | Qvalue | # 6      |
| 19) n-Nitroso-di-n-propylamine | 9.31  | 70   | 42037    | 10.772 ng | #      | 68       |
| 50) Dimethylphthalate          | 14.20 | 163  | 102245   | 7.607 ng  | #      | 97       |
| 57) 2,4-Dinitrotoluene         | 14.75 | 165  | 22321    | 6.261 ng  | #      | 14       |
| 65) 4,6-Dinitro-2-methylphenol | 16.24 | 198  | 764      | 7.418 ng  | #      | 1        |
| 67) 4-Bromophenyl-phenylether  | 16.24 | 248  | 19258    | 3.702 ng  | #      | 1        |

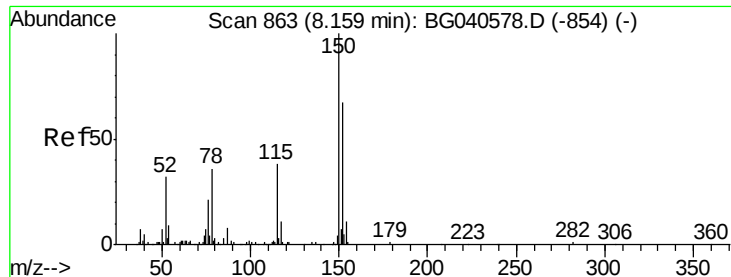
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 14 01:47:11 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG042319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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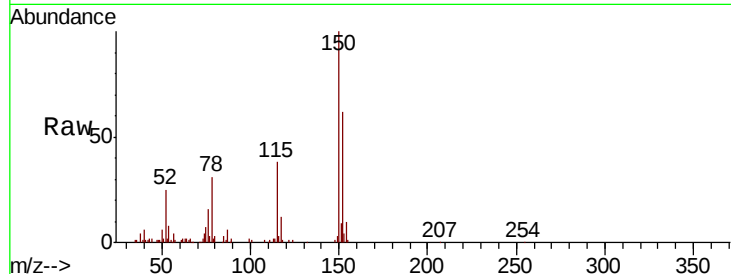


#1

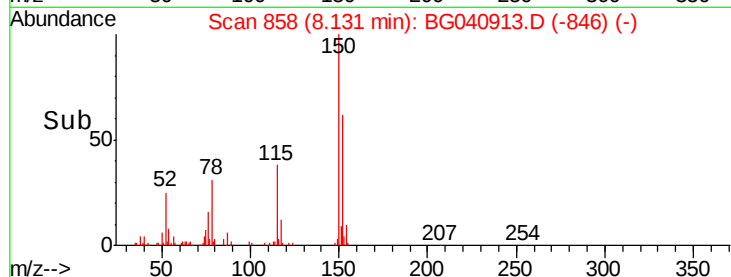
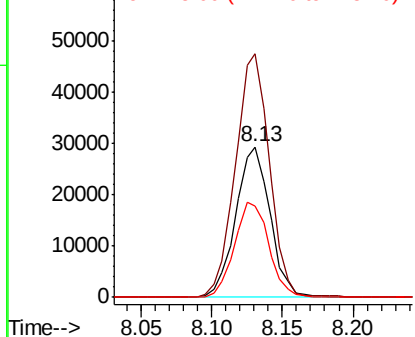
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.13 min Scan# 858  
Delta R.T. -0.03 min  
Lab File: BG040913.D  
Acq: 13 May 2019 16:16

Instrument :  
BNA\_G  
ClientSampleId :  
10-B2

Tgt Ion:152 Resp: 49634  
Ion Ratio Lower Upper  
152 100  
150 162.1 120.2 180.2  
115 61.1 46.2 69.2



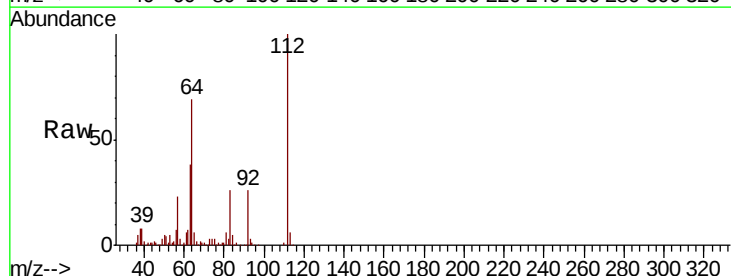
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



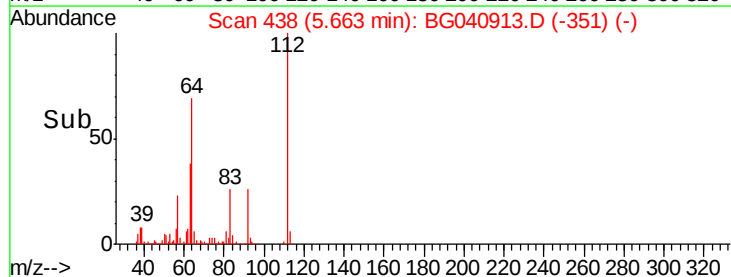
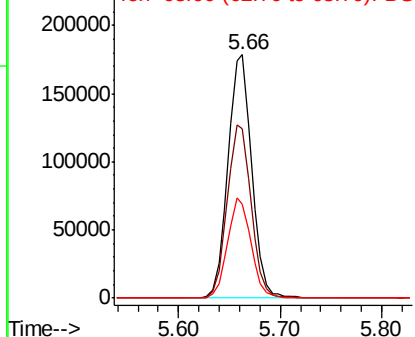
#5

2-Fluorophenol  
Concen: 103.056 ng  
RT: 5.66 min Scan# 438  
Delta R.T. -0.02 min  
Lab File: BG040913.D  
Acq: 13 May 2019 16:16

Tgt Ion:112 Resp: 290173  
Ion Ratio Lower Upper  
112 100  
64 69.5 61.4 92.0  
63 38.4 37.8 56.6



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: 100.773 ng

RT: 7.27 min Scan# 711

Delta R.T. -0.03 min

Lab File: BG040913.D

Acq: 13 May 2019 16:16

Instrument :

BNA\_G

ClientSampleId :

10-B2

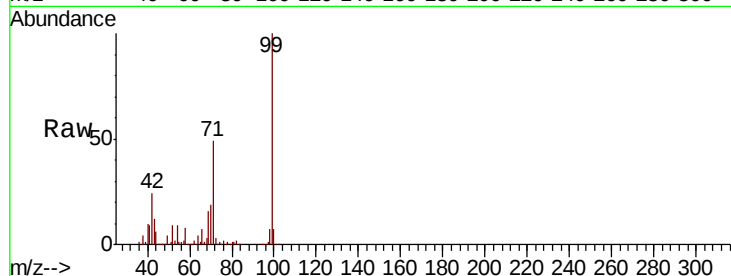
Tgt Ion: 99 Resp: 436887

Ion Ratio Lower Upper

99 100

42 23.9 21.8 32.8

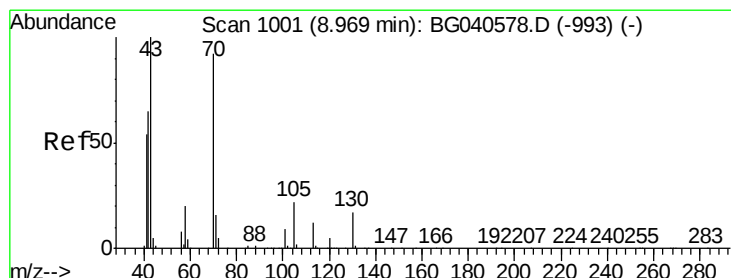
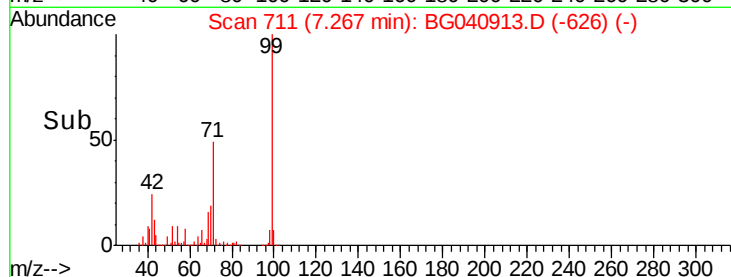
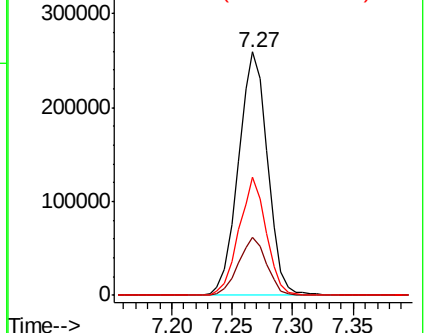
71 48.5 38.6 57.8



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: 10.772 ng

RT: 9.31 min Scan# 1058

Delta R.T. 0.34 min

Lab File: BG040913.D

Acq: 13 May 2019 16:16

Tgt Ion: 70 Resp: 42037

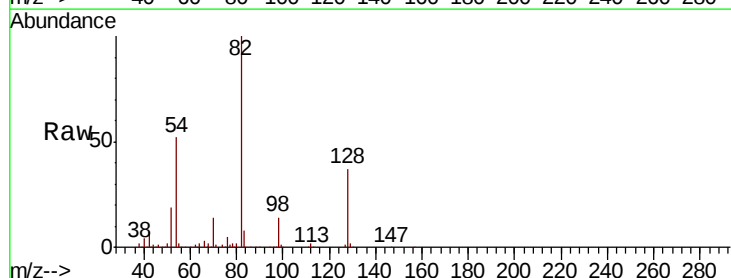
Ion Ratio Lower Upper

70 100

42 45.8 57.1 85.7#

101 0.0 7.8 11.8#

130 1.3 14.6 21.8#

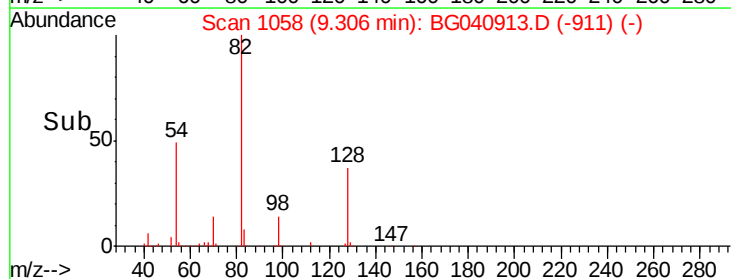
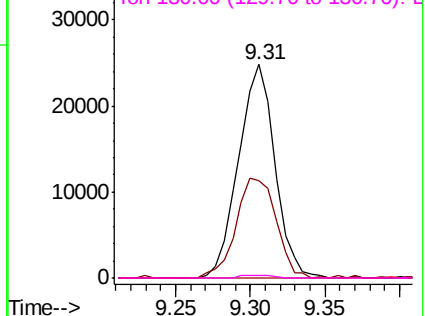


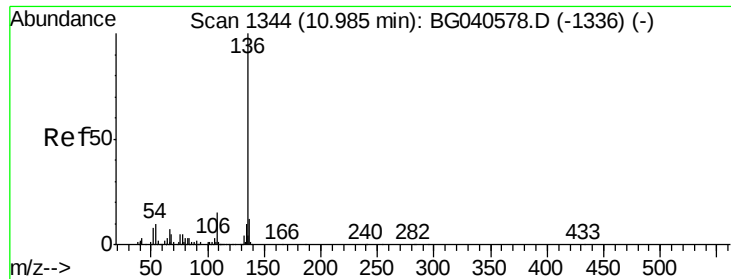
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

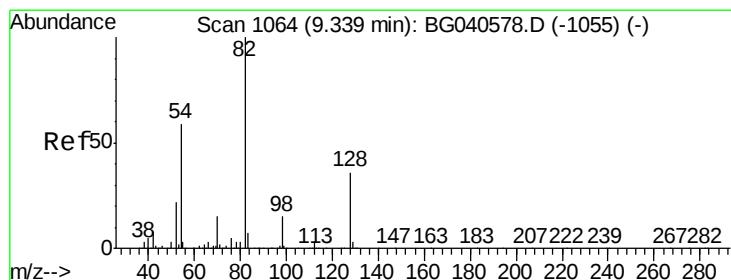
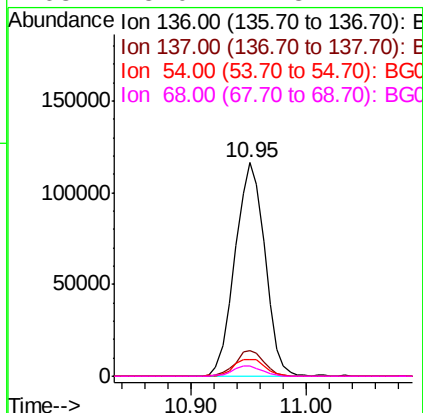
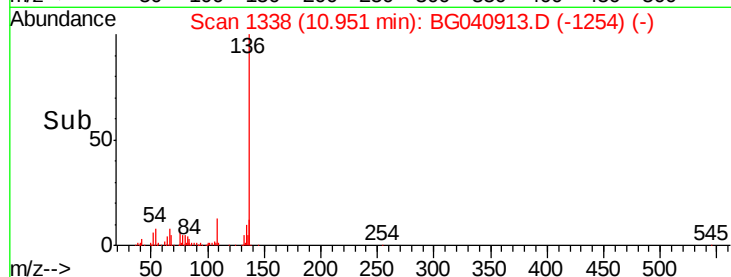
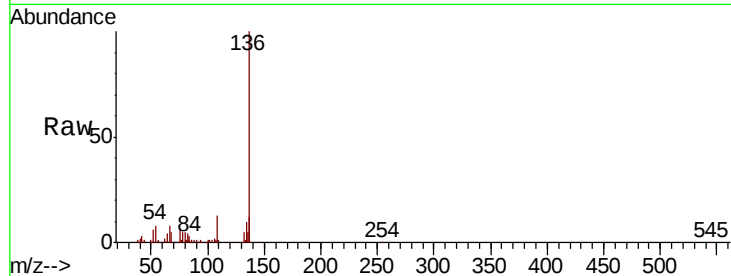




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.95 min Scan# 1338  
Delta R.T. -0.03 min  
Lab File: BG040913.D  
Acq: 13 May 2019 16:16

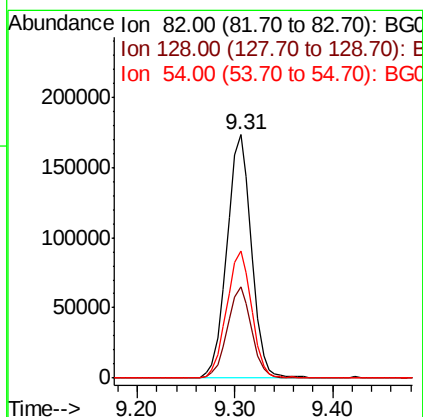
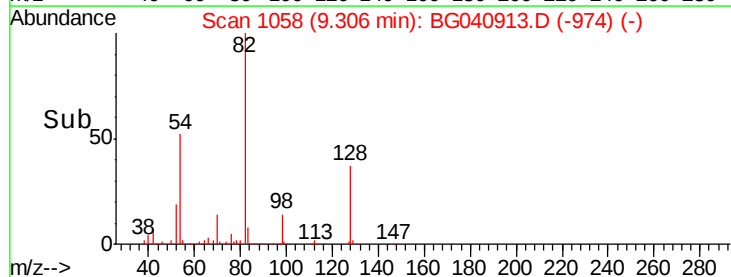
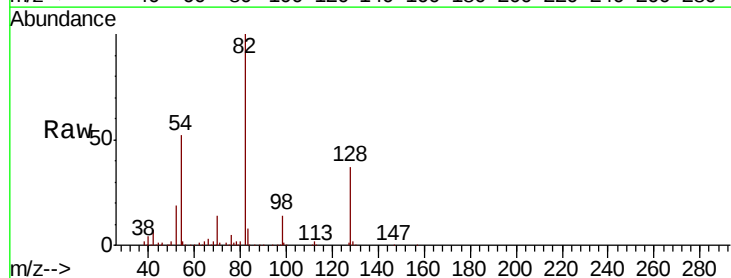
Instrument :  
BNA\_G  
ClientSampleId :  
10-B2

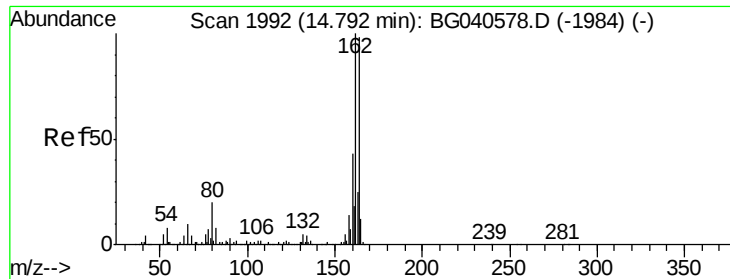
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 208989 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.8  | 9.7   | 14.5   |
| 54       | 8.1   | 8.6   | 12.8#  |
| 68       | 5.0   | 4.8   | 7.2    |



#23  
Nitrobenzene-d5  
Concen: 66.755 ng  
RT: 9.31 min Scan# 1058  
Delta R.T. -0.03 min  
Lab File: BG040913.D  
Acq: 13 May 2019 16:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 301931 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 37.5  | 28.9  | 43.3   |
| 54       | 52.3  | 47.2  | 70.8   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.76 min Scan# 1986

Delta R.T. -0.03 min

Lab File: BG040913.D

Acq: 13 May 2019 16:16

Instrument :

BNA\_G

ClientSampleId :

10-B2

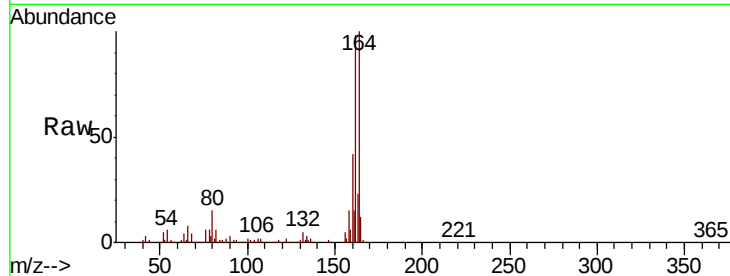
Tgt Ion:164 Resp: 160656

Ion Ratio Lower Upper

164 100

162 98.3 81.9 122.9

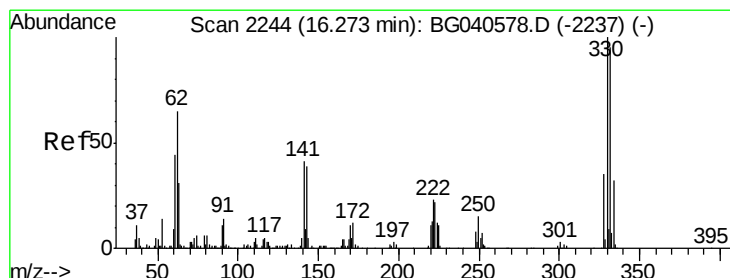
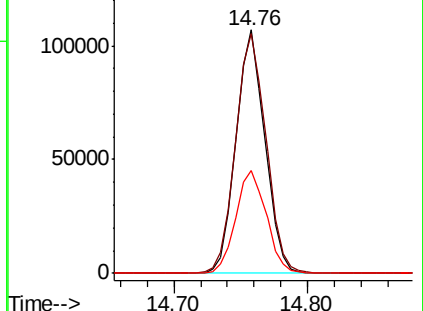
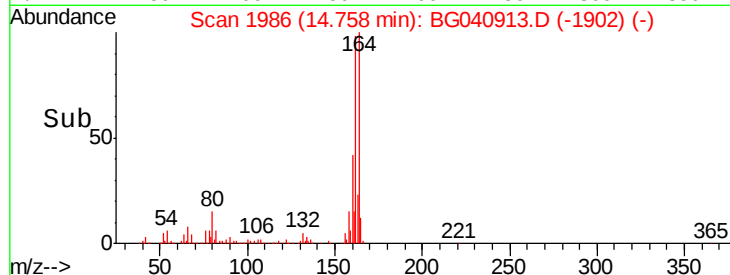
160 42.2 35.4 53.2



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: 116.932 ng

RT: 16.24 min Scan# 2239

Delta R.T. -0.03 min

Lab File: BG040913.D

Acq: 13 May 2019 16:16

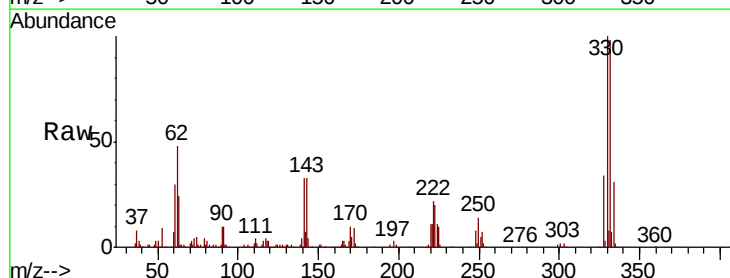
Tgt Ion:330 Resp: 258215

Ion Ratio Lower Upper

330 100

332 95.9 75.9 113.9

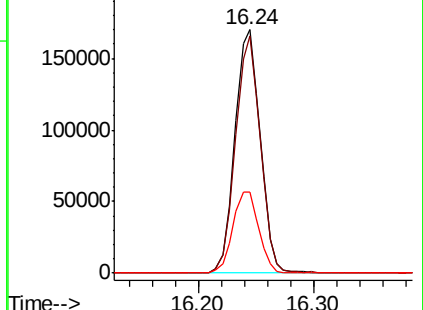
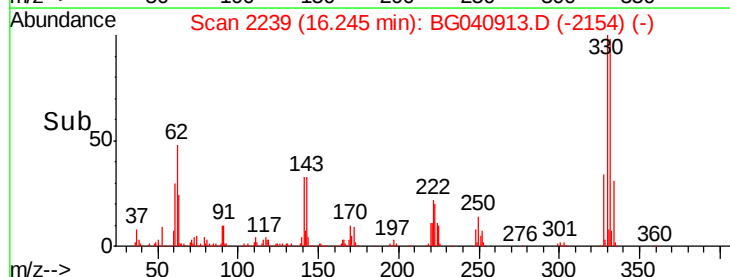
141 34.1 32.4 48.6



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

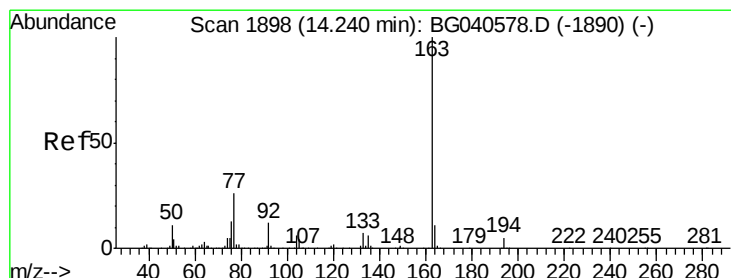
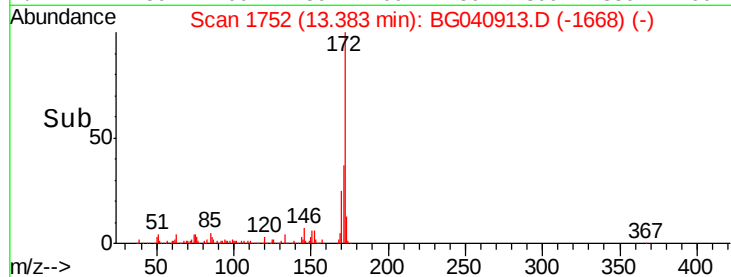
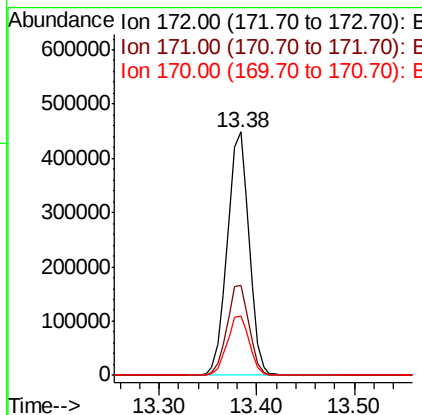
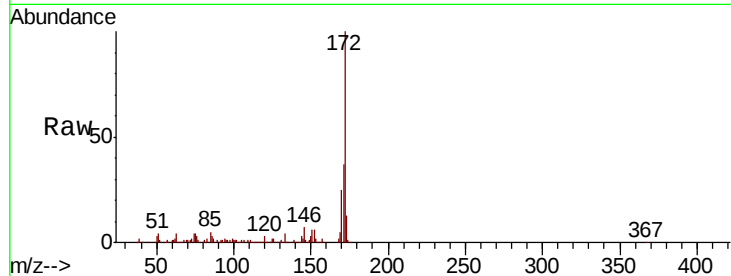




#45  
 2-Fluorobiphenyl  
 Concen: 62.330 ng  
 RT: 13.38 min Scan# 1752  
 Delta R.T. -0.03 min  
 Lab File: BG040913.D  
 Acq: 13 May 2019 16:16

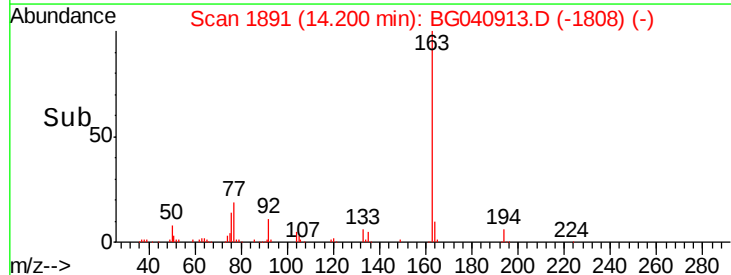
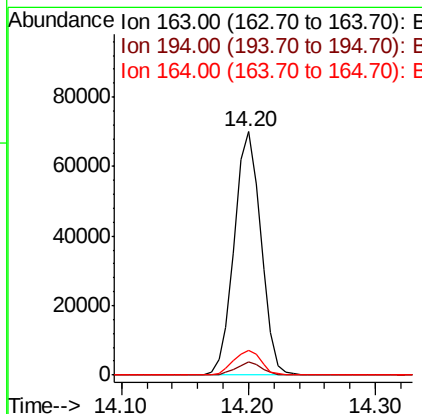
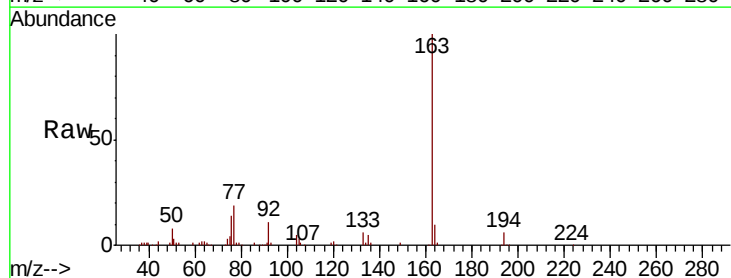
Instrument :  
 BNA\_G  
 ClientSampleId :  
 10-B2

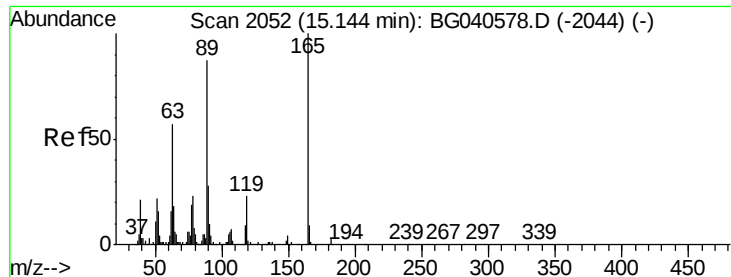
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 693375 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 36.7  | 29.4  | 44.2   |
| 170      | 24.5  | 19.9  | 29.9   |



#50  
 Dimethylphthalate  
 Concen: 7.607 ng  
 RT: 14.20 min Scan# 1891  
 Delta R.T. -0.04 min  
 Lab File: BG040913.D  
 Acq: 13 May 2019 16:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 163   | Resp: | 102245 |
| Ion      | Ratio | Lower | Upper  |
| 163      | 100   |       |        |
| 194      | 5.6   | 3.8   | 5.8    |
| 164      | 9.9   | 8.8   | 13.2   |





#57

2,4-Dinitrotoluene

Concen: 6.261 ng

RT: 14.75 min Scan# 1985

Delta R.T. -0.39 min

Lab File: BG040913.D

Acq: 13 May 2019 16:16

Instrument :

BNA\_G

ClientSampleId :

10-B2

Tgt Ion:165 Resp: 22321

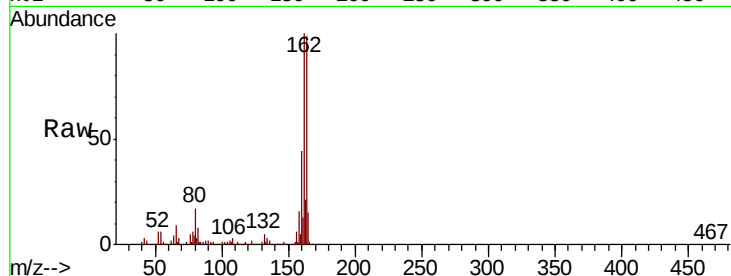
Ion Ratio Lower Upper

165 100

63 0.0 45.8 68.8#

89 0.0 69.4 104.2#

182 0.0 2.2 3.4#

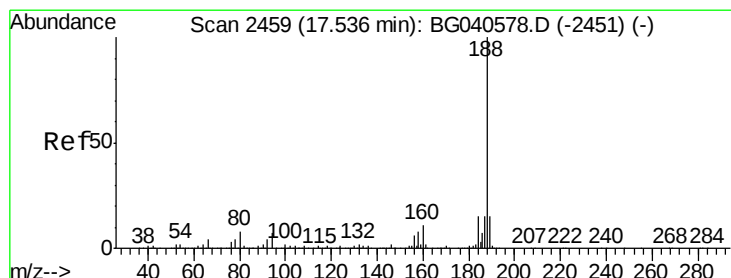
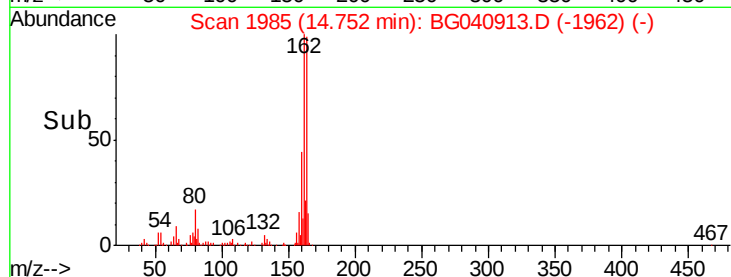
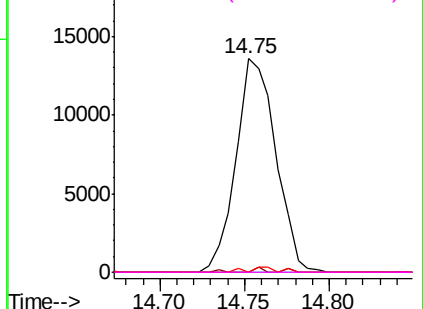


Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.50 min Scan# 2453

Delta R.T. -0.03 min

Lab File: BG040913.D

Acq: 13 May 2019 16:16

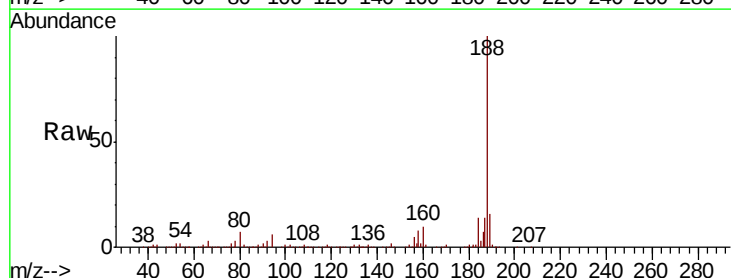
Tgt Ion:188 Resp: 417529

Ion Ratio Lower Upper

188 100

94 6.1 5.6 8.4

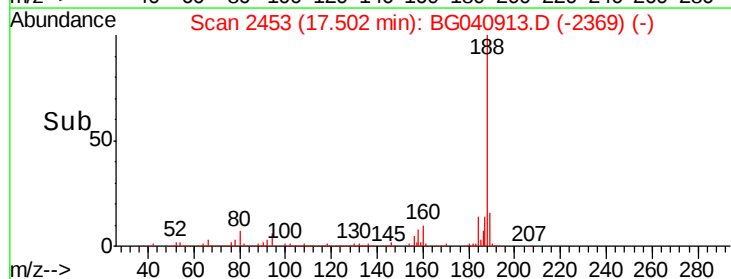
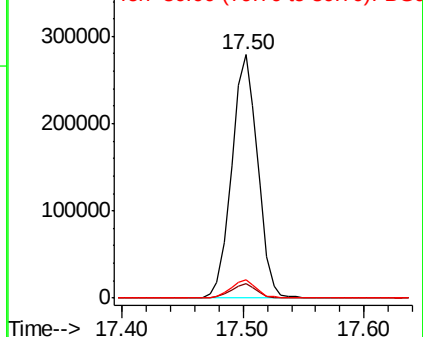
80 7.3 6.4 9.6

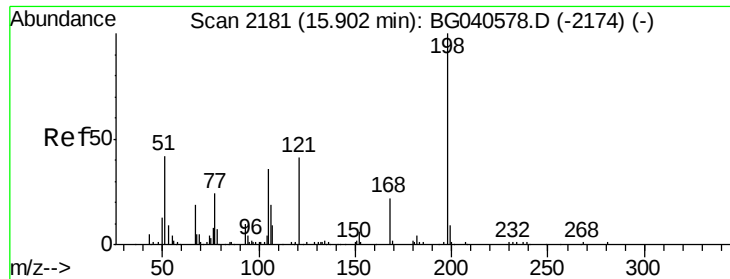


Abundance Ion 188.00 (187.70 to 188.70): E

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: 7.418 ng

RT: 16.24 min Scan# 2238

Delta R.T. 0.34 min

Lab File: BG040913.D

Acq: 13 May 2019 16:16

Instrument :

BNA\_G

ClientSampleId :

10-B2

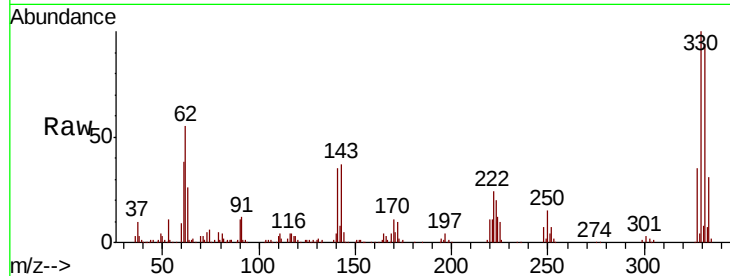
Tgt Ion:198 Resp: 764

Ion Ratio Lower Upper

198 100

51 161.9 35.9 75.9#

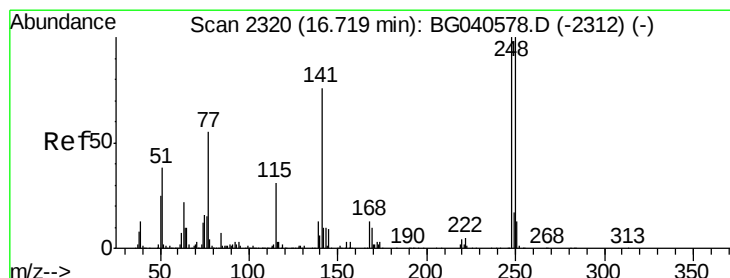
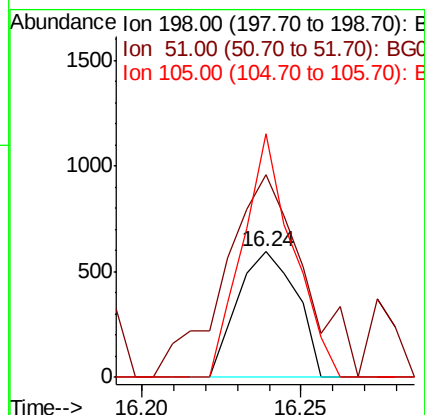
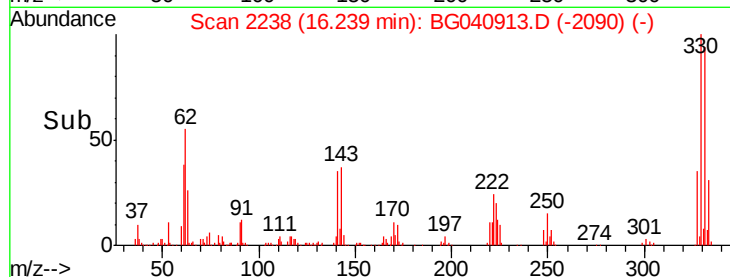
105 194.3 21.2 61.2#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG040578.D (-2174) (-)

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 3.702 ng

RT: 16.24 min Scan# 2239

Delta R.T. -0.47 min

Lab File: BG040913.D

Acq: 13 May 2019 16:16

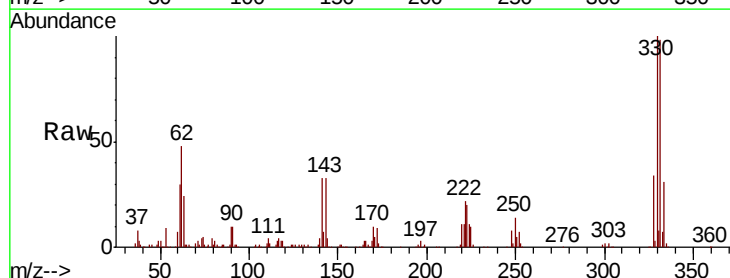
Tgt Ion:248 Resp: 19258

Ion Ratio Lower Upper

248 100

250 166.6 79.8 119.6#

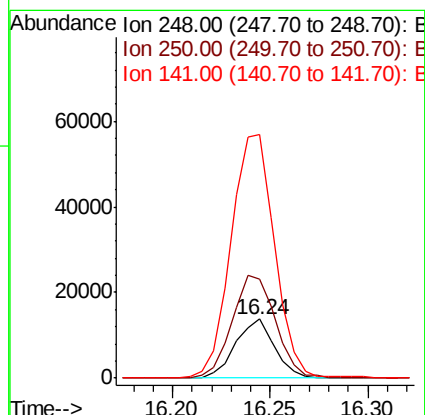
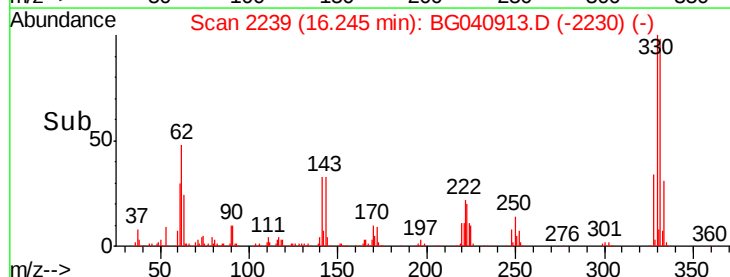
141 411.5 60.8 91.2#

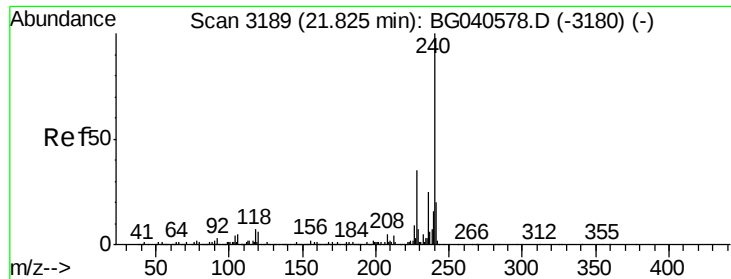


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

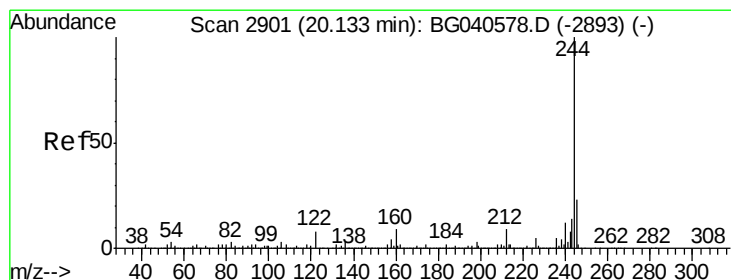
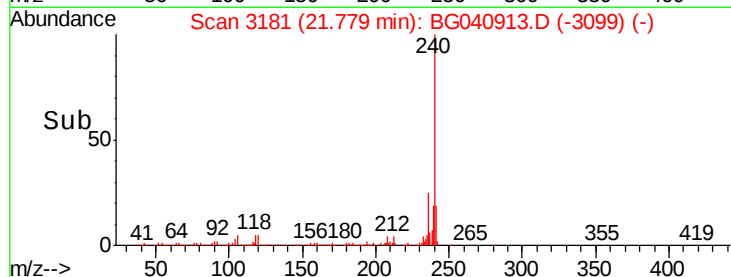
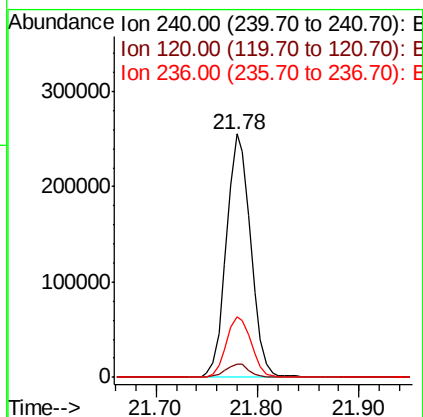
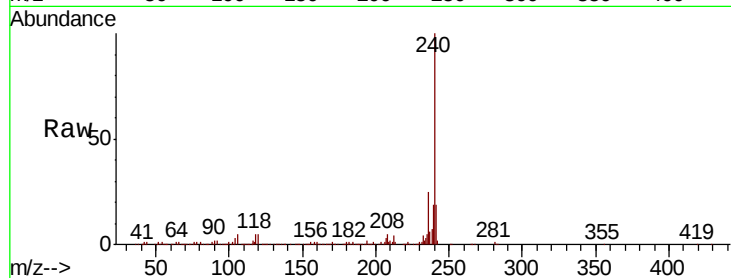




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.78 min Scan# 3181  
Delta R.T. -0.05 min  
Lab File: BG040913.D  
Acq: 13 May 2019 16:16

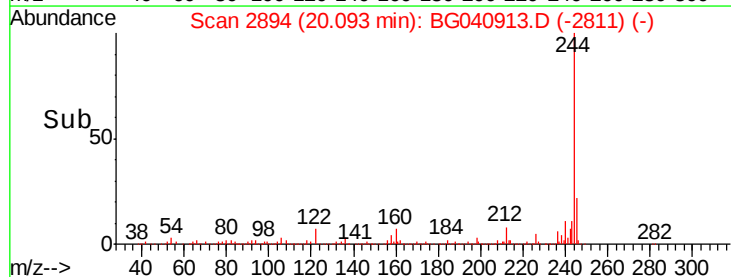
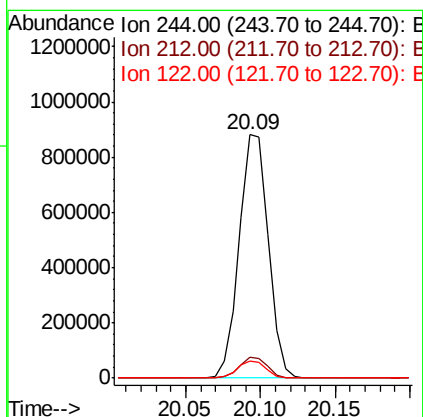
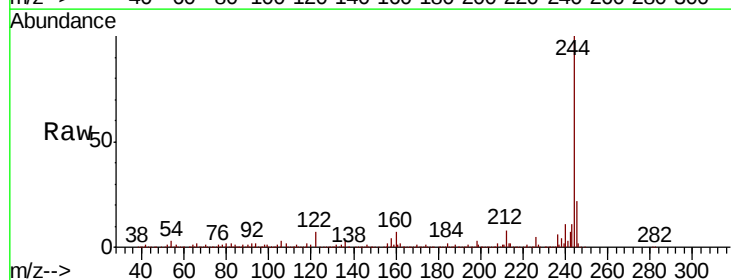
Instrument :  
BNA\_G  
ClientSampleId :  
10-B2

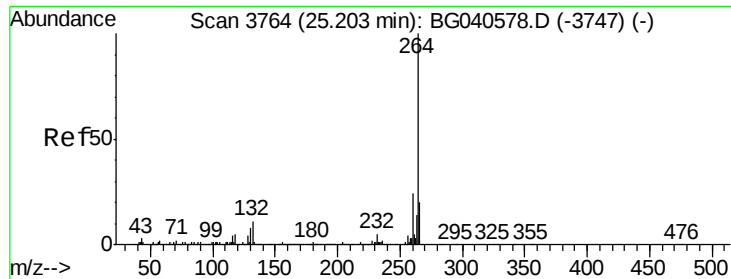
Tgt Ion:240 Resp: 425429  
Ion Ratio Lower Upper  
240 100  
120 5.2 5.0 7.6  
236 24.9 20.3 30.5



#79  
Terphenyl-d14  
Concen: 62.296 ng  
RT: 20.09 min Scan# 2894  
Delta R.T. -0.04 min  
Lab File: BG040913.D  
Acq: 13 May 2019 16:16

Tgt Ion:244 Resp: 1196272  
Ion Ratio Lower Upper  
244 100  
212 8.4 7.2 10.8  
122 6.9 6.6 10.0

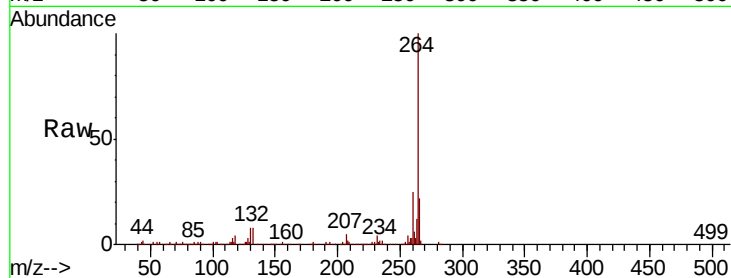




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.12 min Scan# 3750  
Delta R.T. -0.08 min  
Lab File: BG040913.D  
Acq: 13 May 2019 16:16

Instrument :  
BNA\_G  
ClientSampleId :  
10-B2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 458184 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 25.1  | 19.2  | 28.8   |
| 265      | 22.2  | 16.6  | 25.0   |



Abundance Ion 264.00 (263.70 to 264.70): E  
200000 Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

