

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG100519\  
 Data File : BG043060.D  
 Acq On : 5 Oct 2019 18:04  
 Operator : JU  
 Sample : K5140-04  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219

Quant Time: Oct 06 23:54:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 25 15:35:52 2019  
 Response via : Initial Calibration

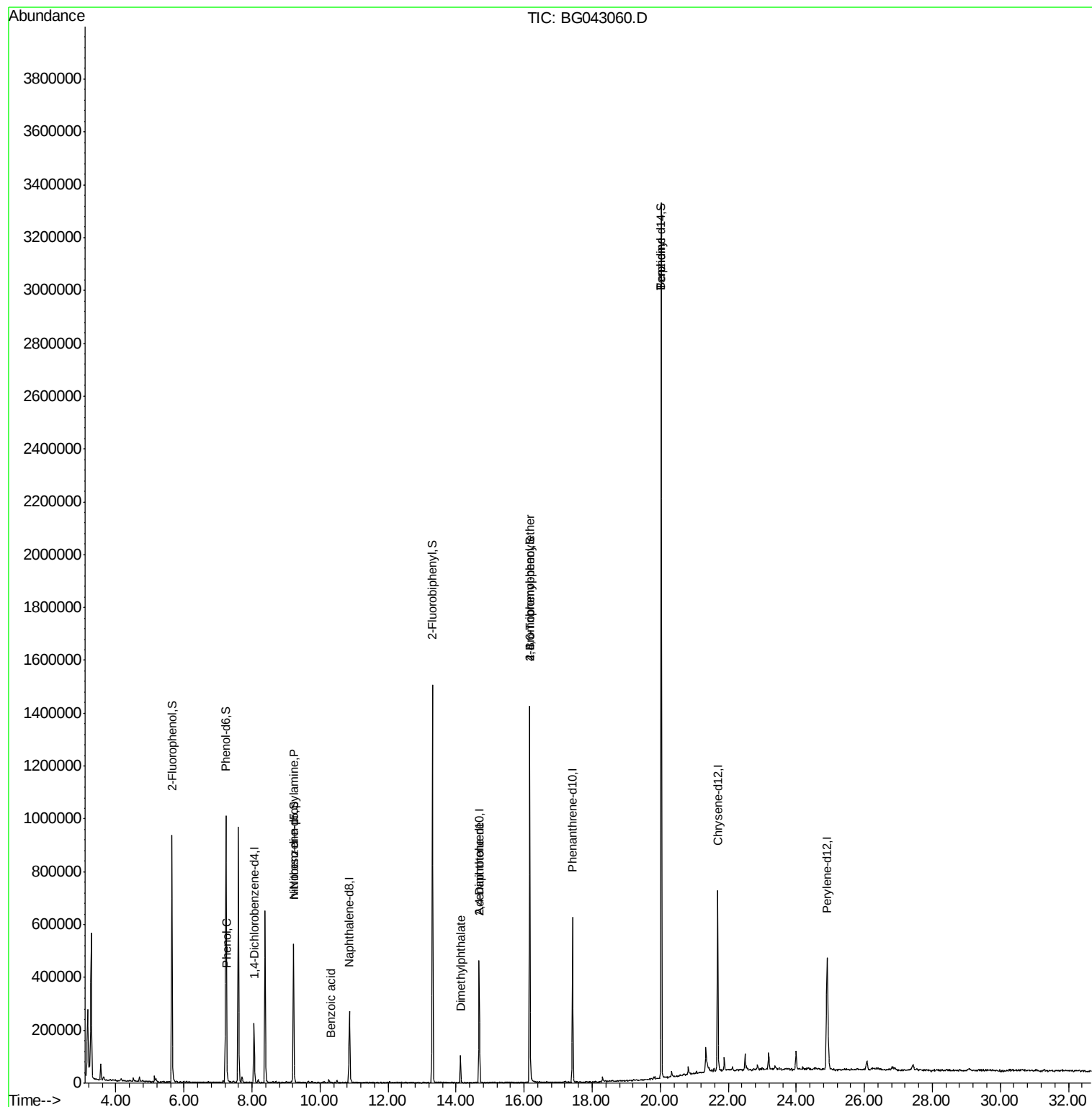
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 66458    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.86 | 136  | 242982   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.68 | 164  | 170791   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 17.42 | 188  | 391143   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 21.69 | 240  | 427768   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 24.91 | 264  | 496331   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 405591   | 108.91 | ng    | -0.01    |
| 7) Phenol-d6                   | 7.24  | 99   | 586131   | 109.30 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 331649   | 66.34  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 310823   | 105.84 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.30 | 172  | 827231   | 70.22  | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.03 | 244  | 1585826  | 79.00  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.26  | 94   | 20502    | 4.167  | ng    | 95       |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 46601    | 13.234 | ng    | # 68     |
| 32) Benzoic acid               | 10.32 | 122  | 80       | 2.834  | ng    | # 46     |
| 50) Dimethylphthalate          | 14.13 | 163  | 68720    | 5.370  | ng    | # 97     |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 22721    | 5.693  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 20685    | 4.213  | ng    | # 1      |
| 77) Benzidine                  | 20.03 | 184  | 24664    | 2.303  | ng    | 97       |

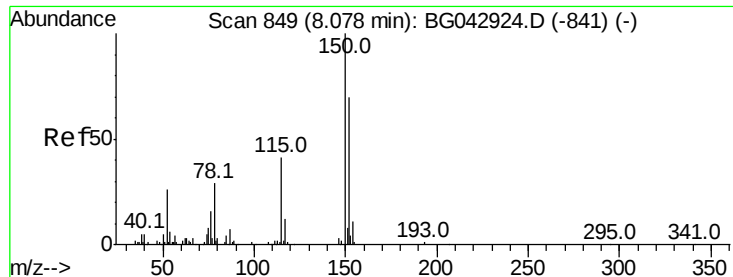
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG100519\  
Data File : BG043060.D  
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M  
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QLast Update : Wed Sep 25 15:35:52 2019  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.06 min Scan# 846

Delta R.T. -0.02 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

Instrument :

BNA\_G

ClientSampleId :

HR-05-100219

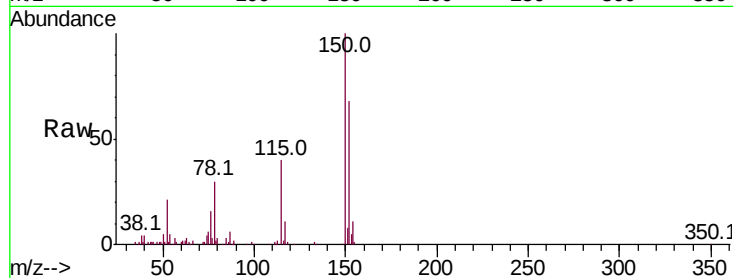
Tot Ion:152 Resp: 66458

Ion Ratio Lower Upper

152 100

150 146.4 115.0 172.4

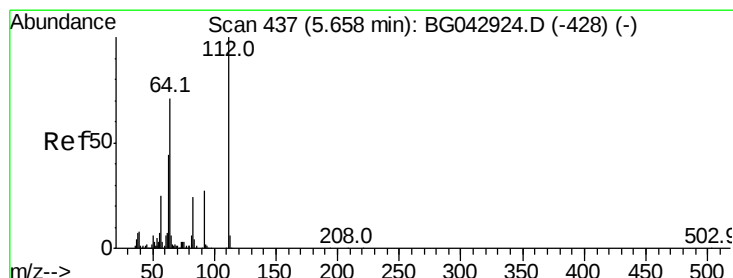
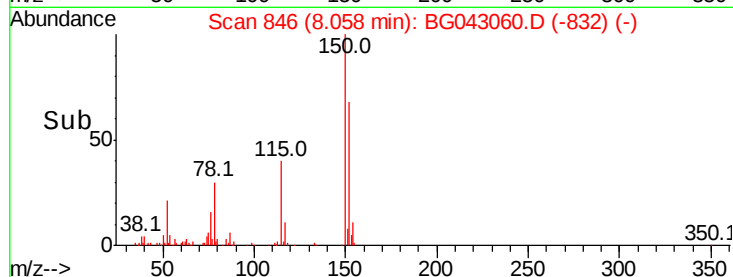
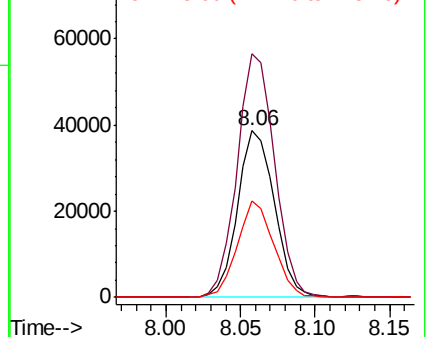
115 58.1 47.0 70.6



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: 108.915 ng

RT: 5.64 min Scan# 435

Delta R.T. -0.01 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

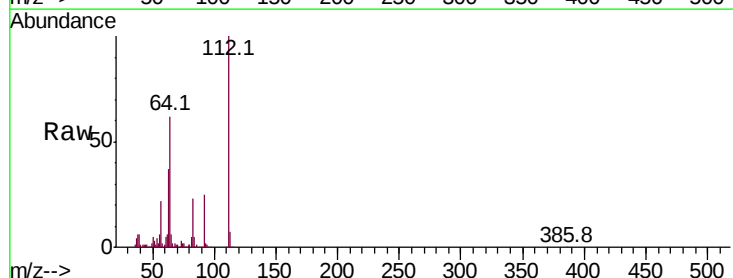
Tgt Ion:112 Resp: 405591

Ion Ratio Lower Upper

112 100

64 62.1 56.6 84.8

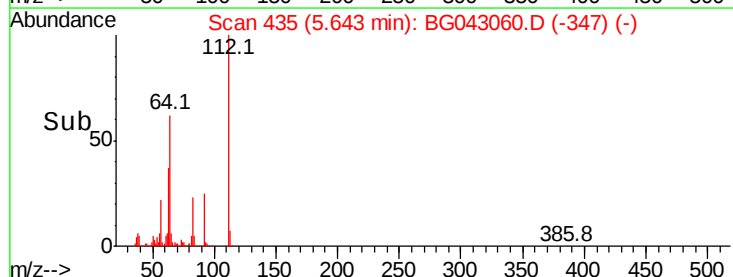
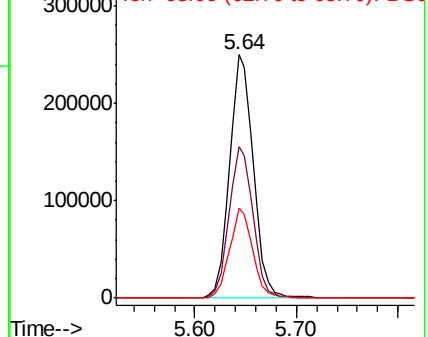
63 36.8 35.1 52.7

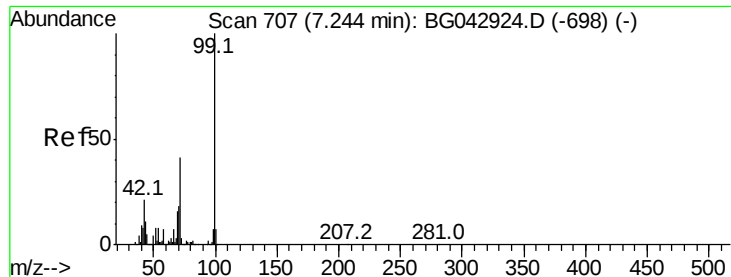


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 109.298 ng

RT: 7.24 min Scan# 706

Delta R.T. -0.01 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

Instrument :

BNA\_G

ClientSampleId :

HR-05-100219

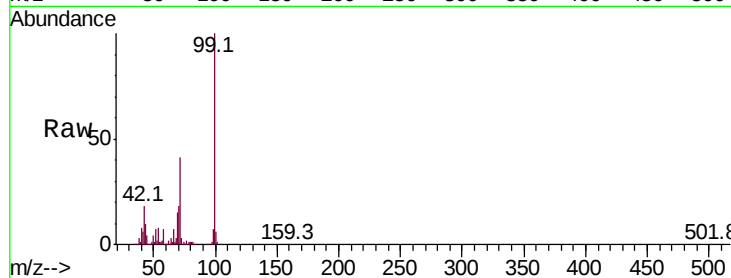
Tot Ion: 99 Resp: 586131

Ion Ratio Lower Upper

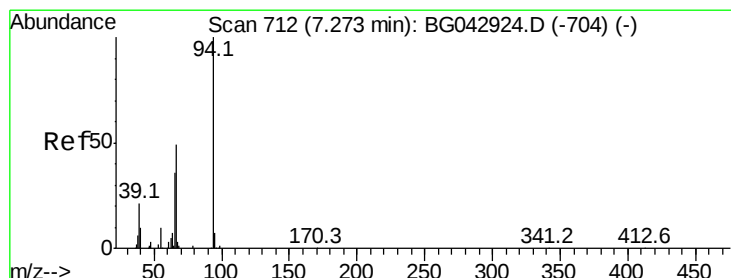
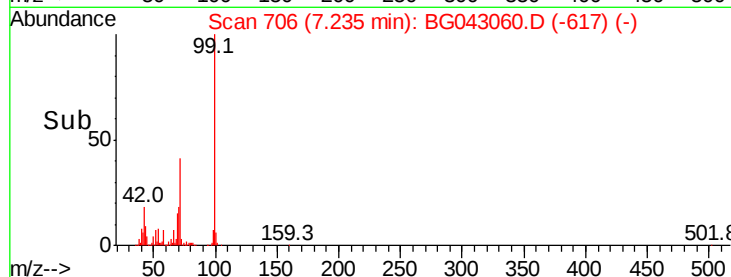
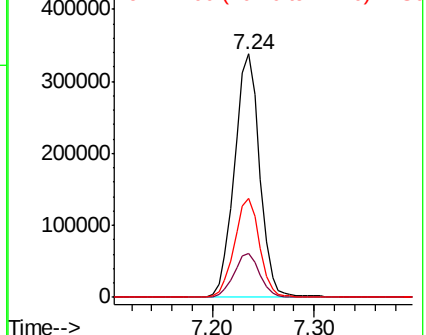
99 100

42 18.2 17.2 25.8

71 40.6 33.1 49.7



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



#10

Phenol

Concen: 4.167 ng

RT: 7.26 min Scan# 710

Delta R.T. -0.01 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

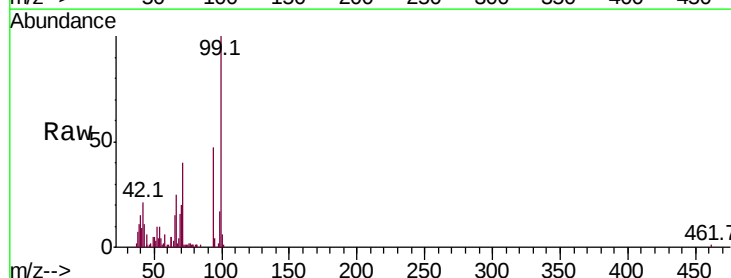
Tgt Ion: 94 Resp: 20502

Ion Ratio Lower Upper

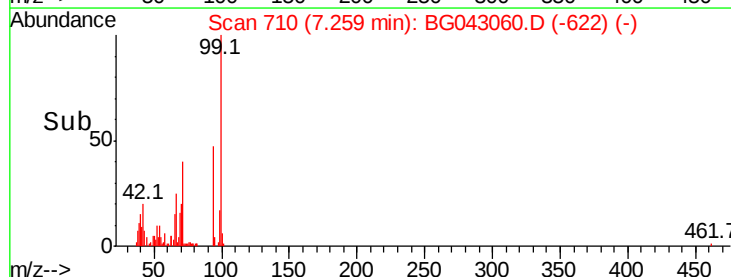
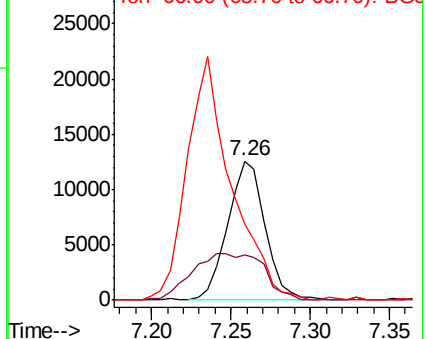
94 100

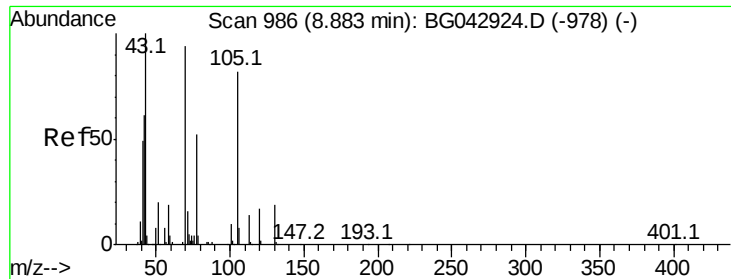
65 32.4 16.6 56.6

66 54.5 32.4 72.4



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

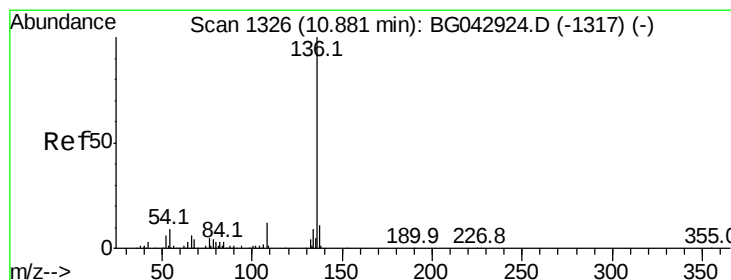
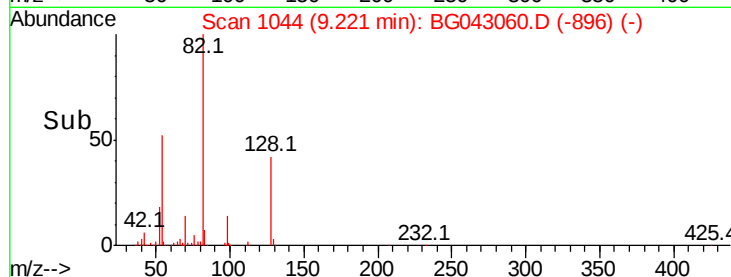
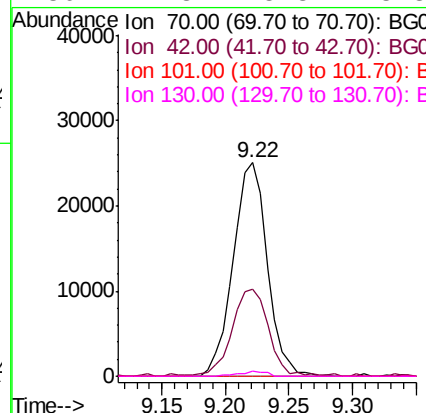
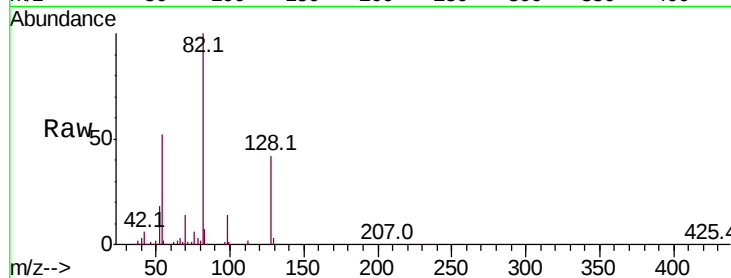




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.234 ng  
RT: 9.22 min Scan# 1044  
Delta R.T. 0.34 min  
Lab File: BG043060.D  
Acq: 5 Oct 2019 18:04

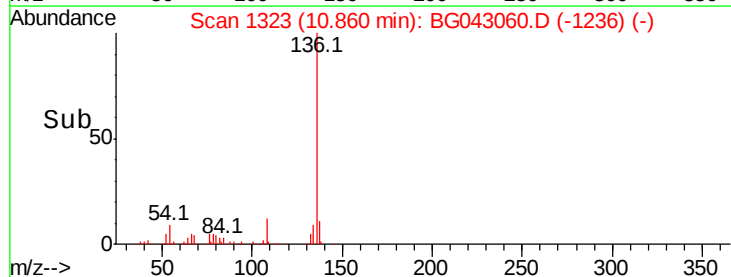
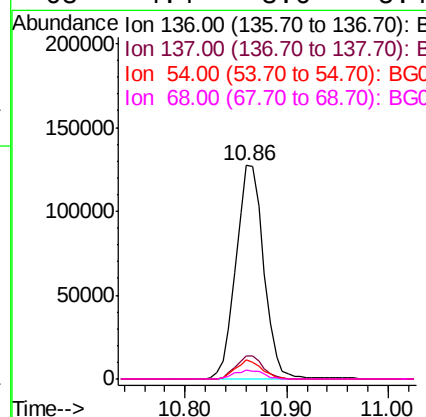
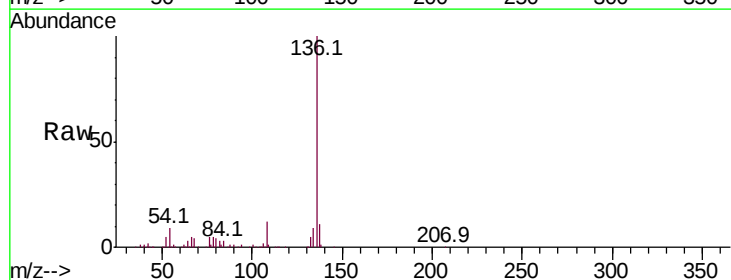
Instrument :  
BNA\_G  
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HR-05-100219

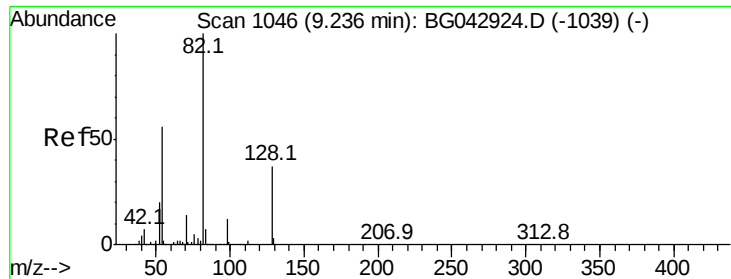
Tot Ion: 70 Resp: 46601  
Ion Ratio Lower Upper  
70 100  
42 40.9 52.6 79.0#  
101 0.0 8.7 13.1#  
130 2.3 15.8 23.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1323  
Delta R.T. -0.02 min  
Lab File: BG043060.D  
Acq: 5 Oct 2019 18:04

Tgt Ion: 136 Resp: 242982  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.5 12.7  
54 9.2 7.4 11.2  
68 4.4 3.6 5.4

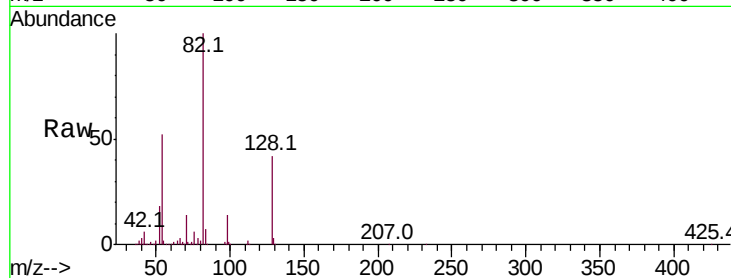




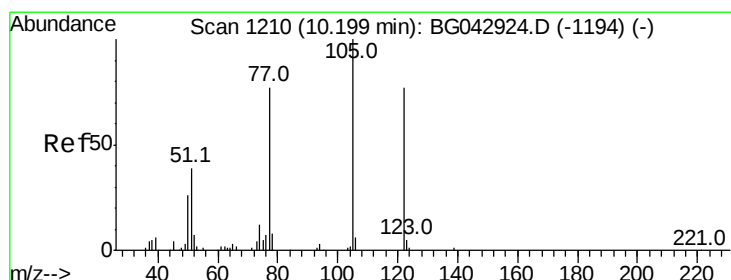
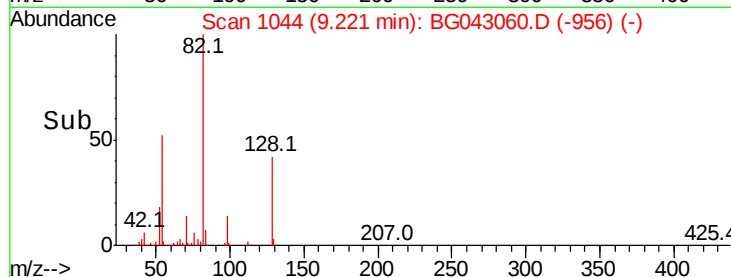
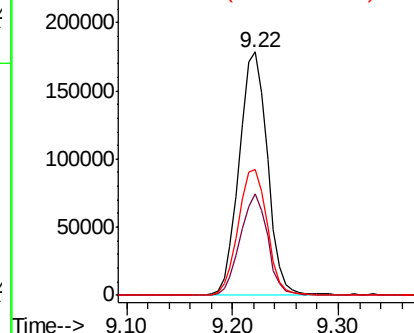
#23  
 Nitrobenzene-d5  
 Concen: 66.342 ng  
 RT: 9.22 min Scan# 1044  
 Delta R.T. -0.01 min  
 Lab File: BG043060.D  
 Acq: 5 Oct 2019 18:04

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219

Tot Ion: 82 Resp: 331649  
 Ion Ratio Lower Upper  
 82 100  
 128 41.6 29.5 44.3  
 54 51.7 44.6 67.0

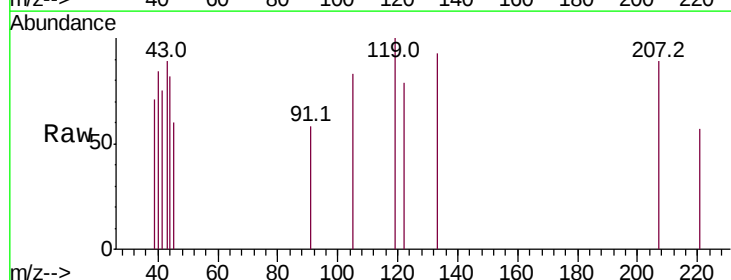


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

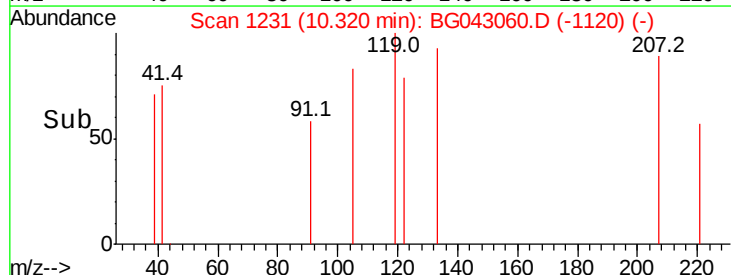
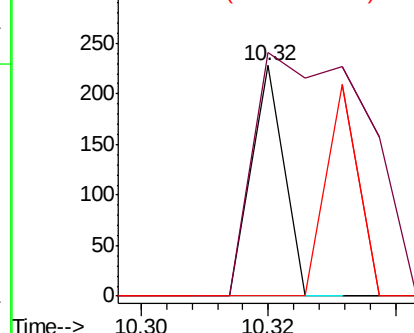


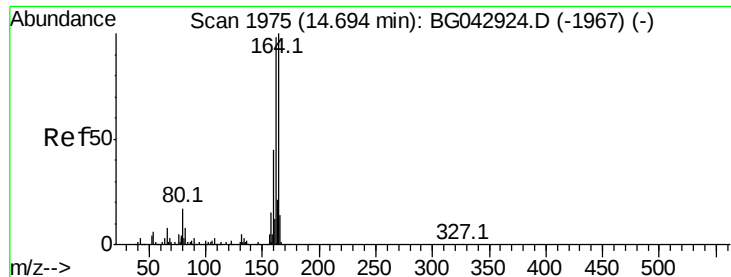
#32  
 Benzoic acid  
 Concen: 2.834 ng  
 RT: 10.32 min Scan# 1231  
 Delta R.T. 0.12 min  
 Lab File: BG043060.D  
 Acq: 5 Oct 2019 18:04

Tgt Ion: 122 Resp: 80  
 Ion Ratio Lower Upper  
 122 100  
 105 105.7 107.5 147.5#  
 77 0.0 79.8 119.8#



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1973

Delta R.T. -0.01 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

Instrument :

BNA\_G

ClientSampleId :

HR-05-100219

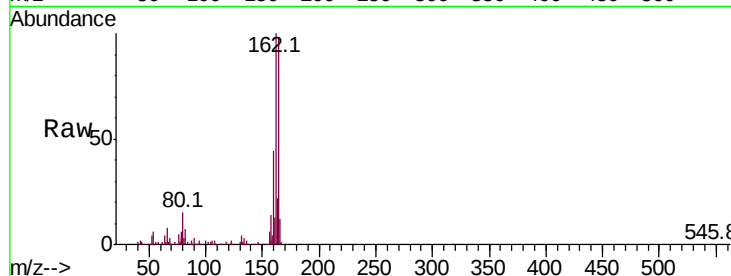
Tot Ion:164 Resp: 170791

Ion Ratio Lower Upper

164 100

162 101.6 78.5 117.7

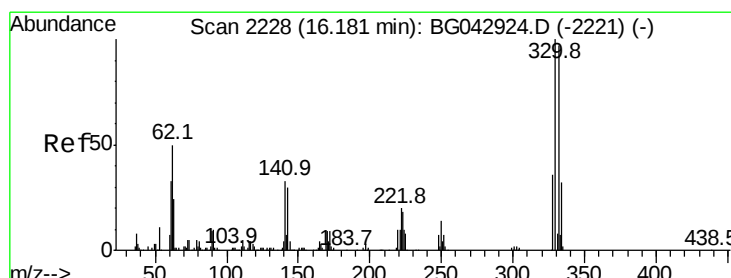
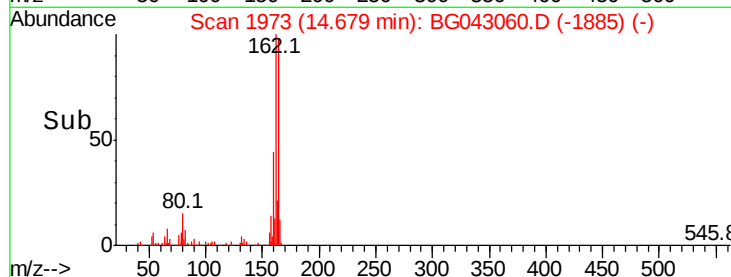
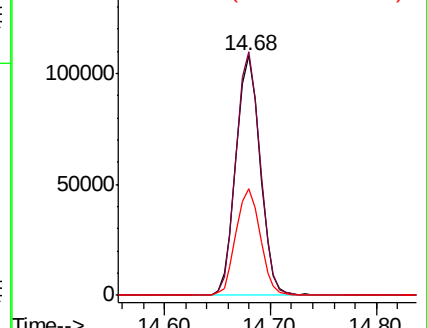
160 44.4 35.9 53.9



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: 105.835 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.01 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

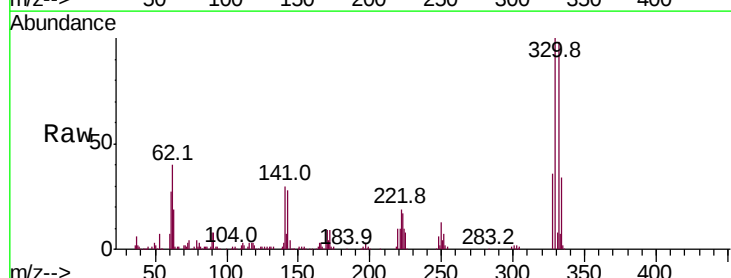
Tgt Ion:330 Resp: 310823

Ion Ratio Lower Upper

330 100

332 98.2 78.2 117.2

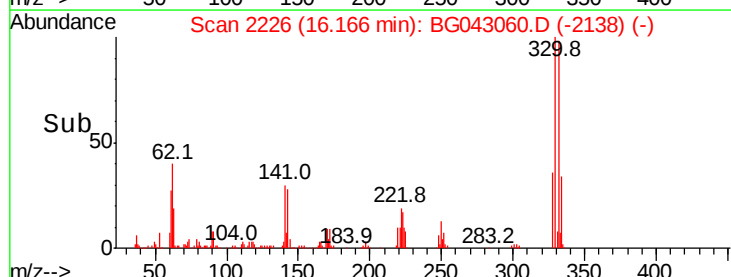
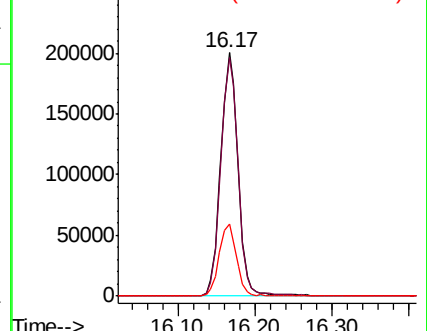
141 29.5 26.0 39.0

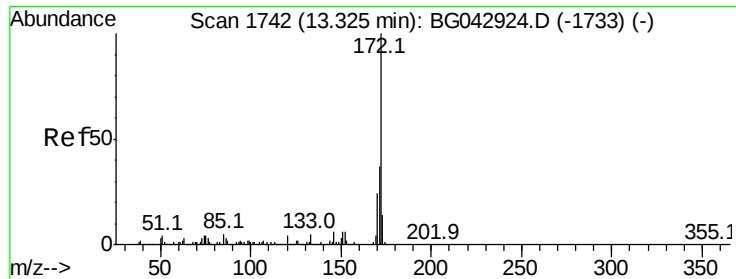


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

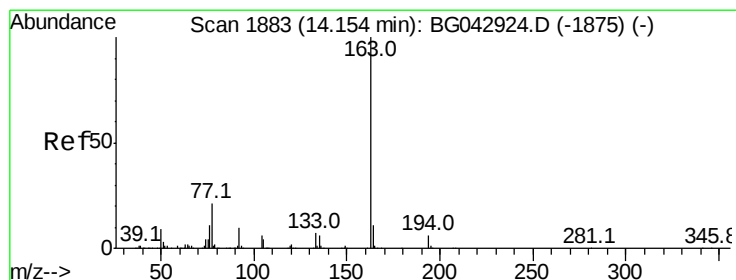
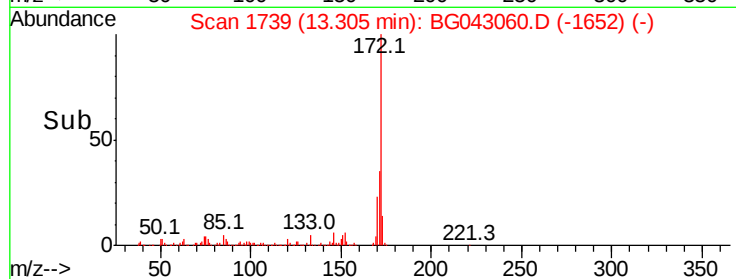
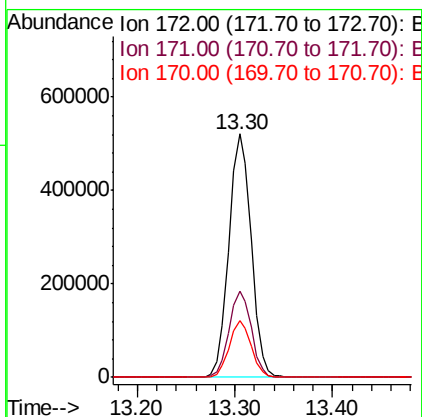
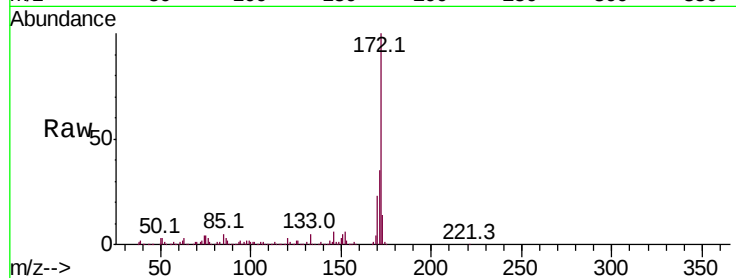




#45  
2-Fluorobiphenyl  
Concen: 70.217 ng  
RT: 13.30 min Scan# 1739  
Delta R.T. -0.02 min  
Lab File: BG043060.D  
Acq: 5 Oct 2019 18:04

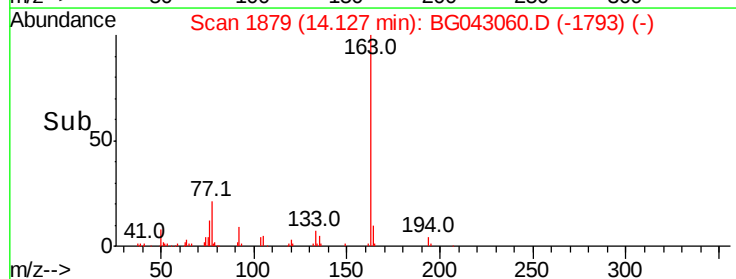
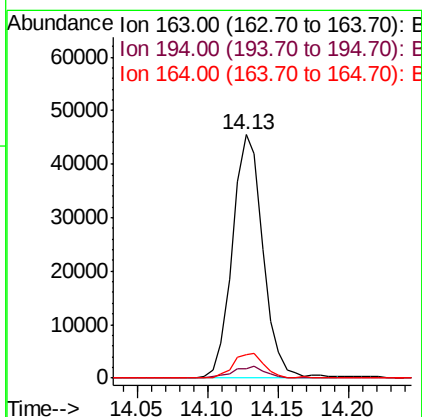
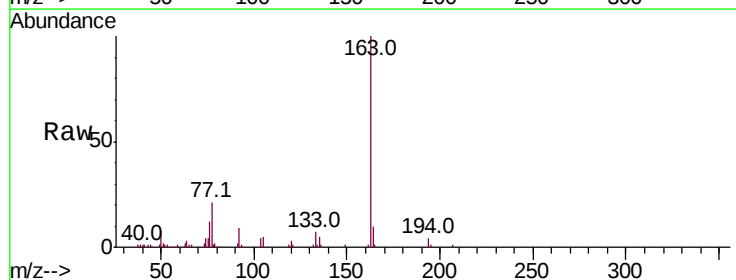
Instrument :  
BNA\_G  
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HR-05-100219

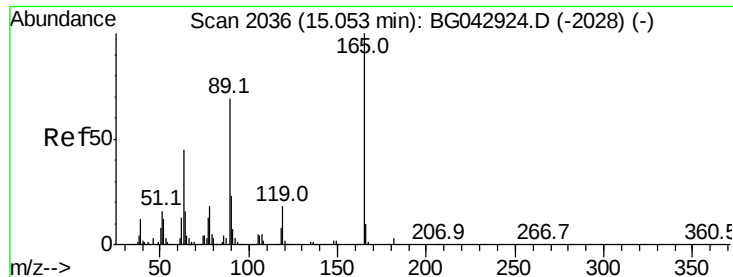
Tot Ion:172 Resp: 827231  
Ion Ratio Lower Upper  
172 100  
171 35.4 29.6 44.4  
170 23.3 19.6 29.4



#50  
Dimethylphthalate  
Concen: 5.370 ng  
RT: 14.13 min Scan# 1879  
Delta R.T. -0.03 min  
Lab File: BG043060.D  
Acq: 5 Oct 2019 18:04

Tgt Ion:163 Resp: 68720  
Ion Ratio Lower Upper  
163 100  
194 4.0 4.4 6.6#  
164 9.9 8.6 12.8





#57

2,4-Dinitrotoluene

Concen: 5.693 ng

RT: 14.67 min Scan# 1972

Delta R.T. -0.38 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

Instrument :

BNA\_G

ClientSampleId :

HR-05-100219

Tot Ion:165 Resp: 22721

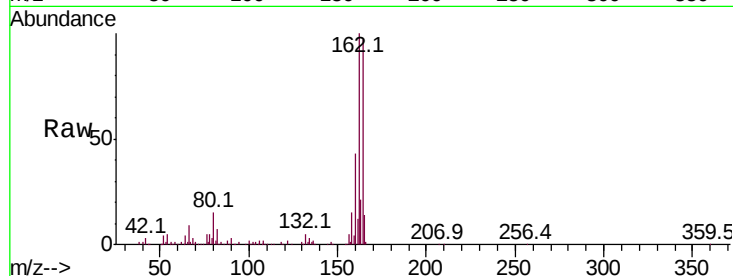
Ion Ratio Lower Upper

165 100

63 1.6 36.5 54.7#

89 3.1 55.5 83.3#

182 0.0 2.4 3.6#

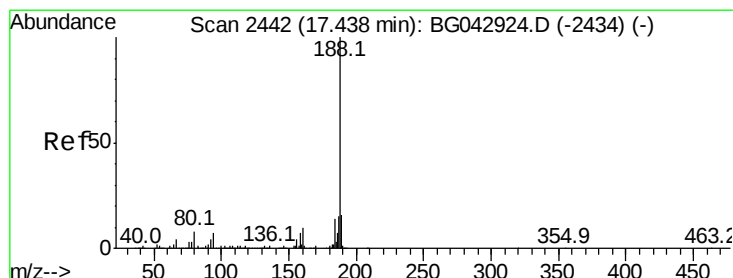
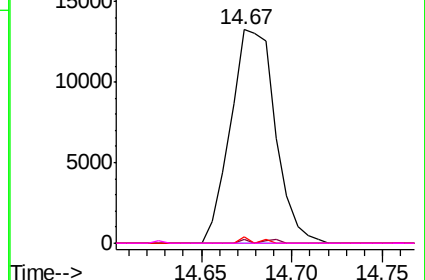
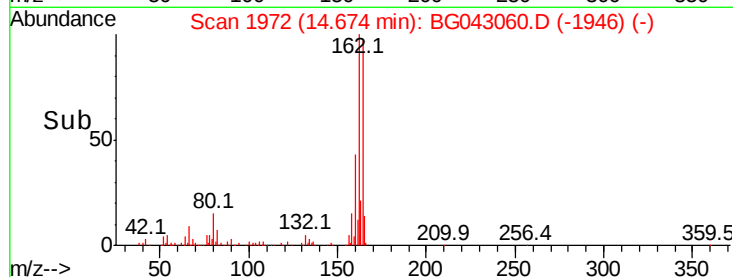


Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.42 min Scan# 2440

Delta R.T. -0.01 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

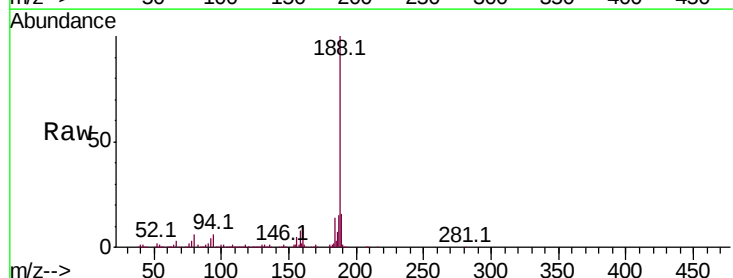
Tgt Ion:188 Resp: 391143

Ion Ratio Lower Upper

188 100

94 5.8 5.7 8.5

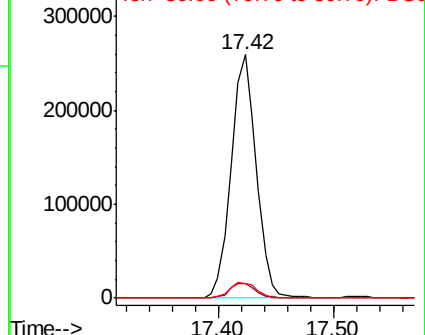
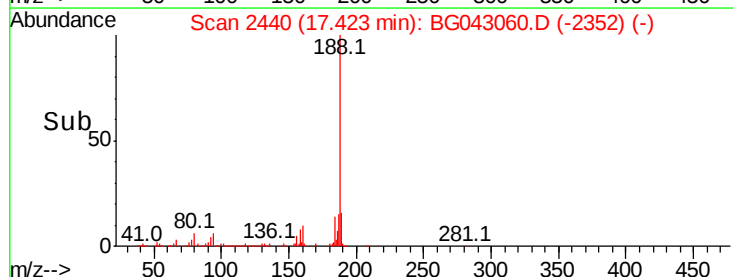
80 6.1 6.5 9.7#

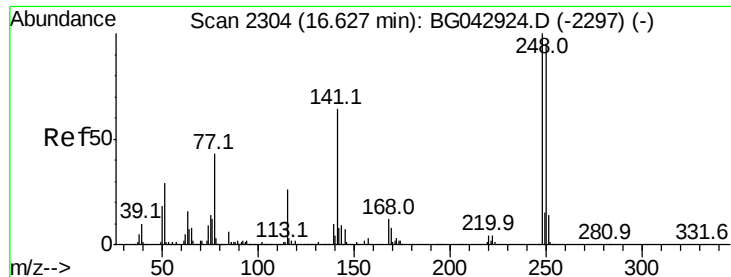


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

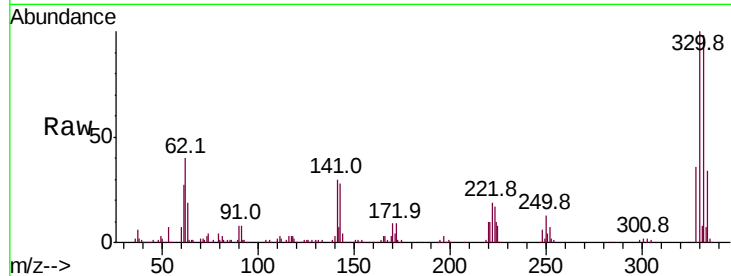




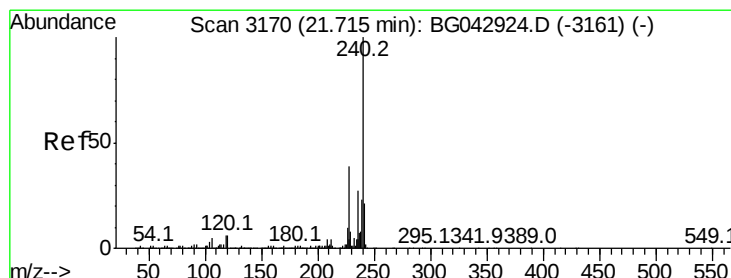
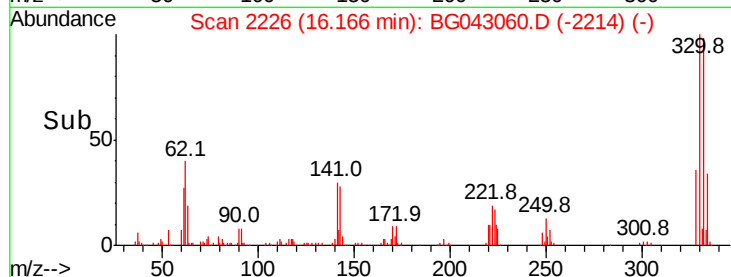
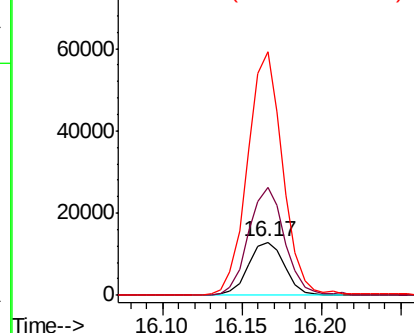
#67  
4-Bromophenyl-phenylether  
Concen: 4.213 ng  
RT: 16.17 min Scan# 2226  
Delta R.T. -0.46 min  
Lab File: BG043060.D  
Acq: 5 Oct 2019 18:04

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219

Tot Ion:248 Resp: 20685  
Ion Ratio Lower Upper  
248 100  
250 204.7 75.8 113.8#  
141 459.4 51.1 76.7#

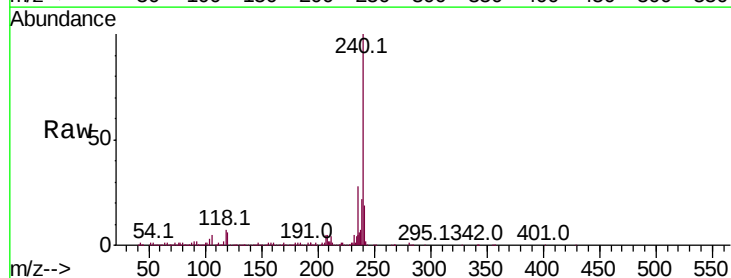


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

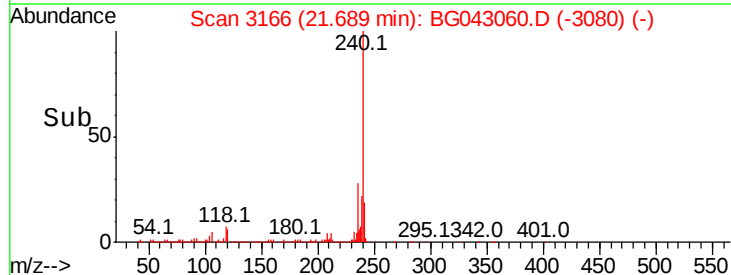
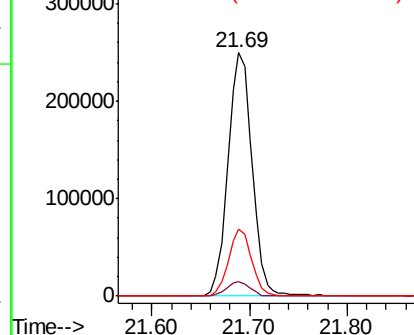


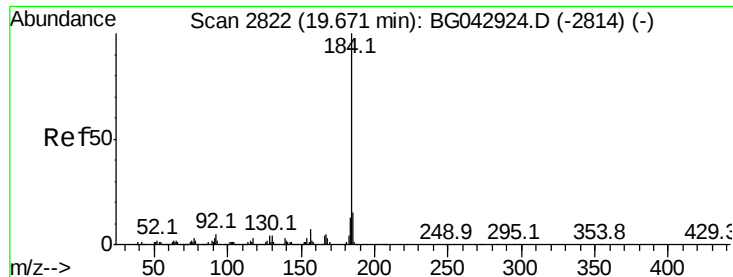
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3166  
Delta R.T. -0.03 min  
Lab File: BG043060.D  
Acq: 5 Oct 2019 18:04

Tgt Ion:240 Resp: 427768  
Ion Ratio Lower Upper  
240 100  
120 5.8 4.8 7.2  
236 27.7 21.4 32.0



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.303 ng

RT: 20.03 min Scan# 2884

Delta R.T. 0.36 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

Instrument :

BNA\_G

ClientSampleId :

HR-05-100219

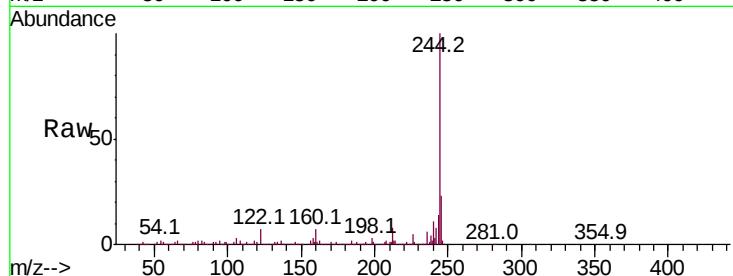
Tot Ion:184 Resp: 24664

Ion Ratio Lower Upper

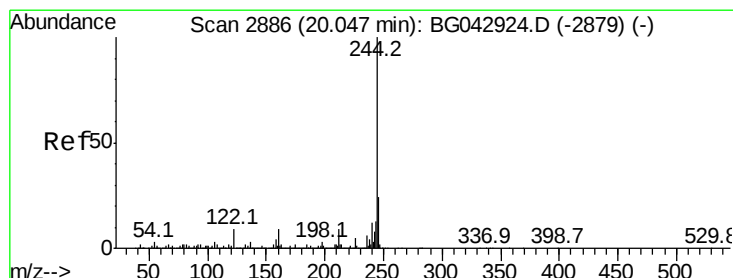
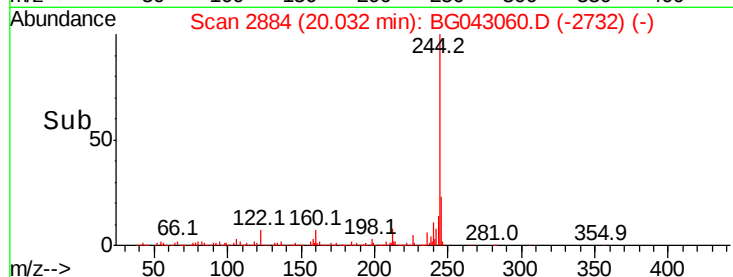
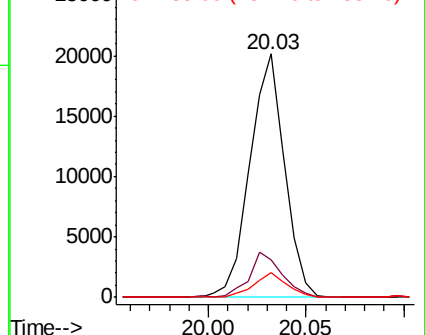
184 100

185 15.2 11.8 17.8

183 10.4 10.1 15.1



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 78.996 ng

RT: 20.03 min Scan# 2884

Delta R.T. -0.01 min

Lab File: BG043060.D

Acq: 5 Oct 2019 18:04

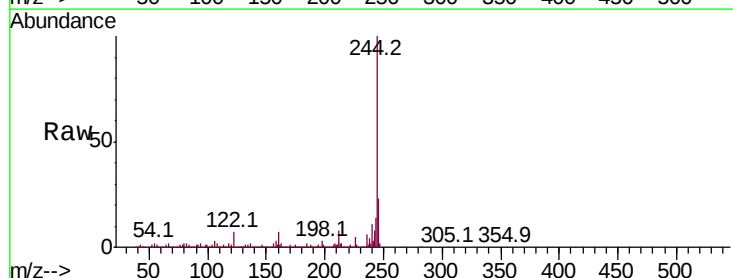
Tgt Ion:244 Resp: 1585826

Ion Ratio Lower Upper

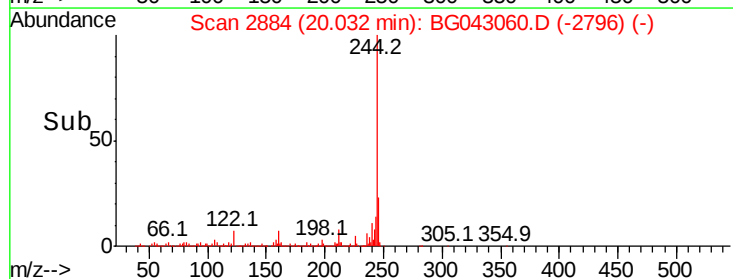
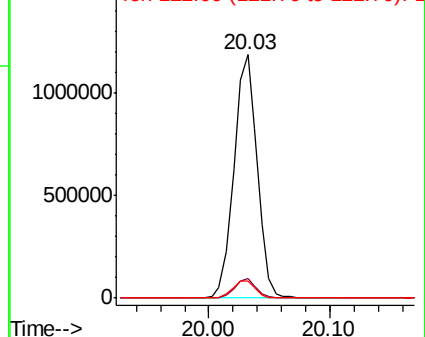
244 100

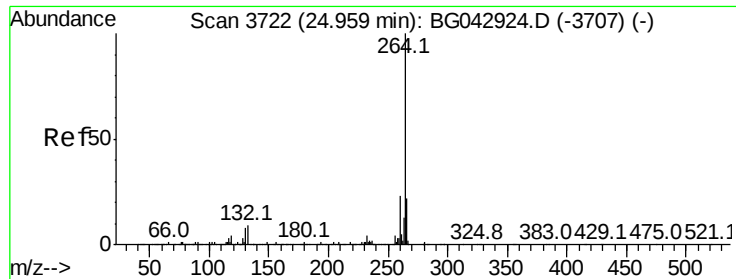
212 8.3 7.4 11.0

122 7.3 7.0 10.4



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: 24.91 min Scan# 3714  
Delta R.T. -0.05 min  
Lab File: BG043060.D  
Acq: 5 Oct 2019 18:04

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 18.7  | 28.1  |
| 265     | 21.9  | 17.7  | 26.5  |

