

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG022519\  
 Data File : BG039593.D  
 Acq On : 25 Feb 2019 19:11  
 Operator : JU/SJ  
 Sample : K1348-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OK-03-022219-B

Quant Time: Feb 25 21:43:22 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG012919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 29 15:41:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.17  | 152  | 54167    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.99 | 136  | 235707   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.79 | 164  | 165713   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.54 | 188  | 397362   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 21.82 | 240  | 403179   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.21 | 264  | 308766   | 20.00 | ng    | -0.04    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.72  | 112  | 463595   | 146.48 | ng    | 0.00     |
| 7) Phenol-d6                | 7.31  | 99   | 636070   | 136.54 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.35  | 82   | 430614   | 114.13 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 16.28 | 330  | 195625   | 109.63 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.42 | 172  | 1048170  | 90.74  | ng    | -0.02    |
| 79) Terphenyl-d14           | 20.13 | 244  | 1671008  | 87.73  | ng    | -0.02    |

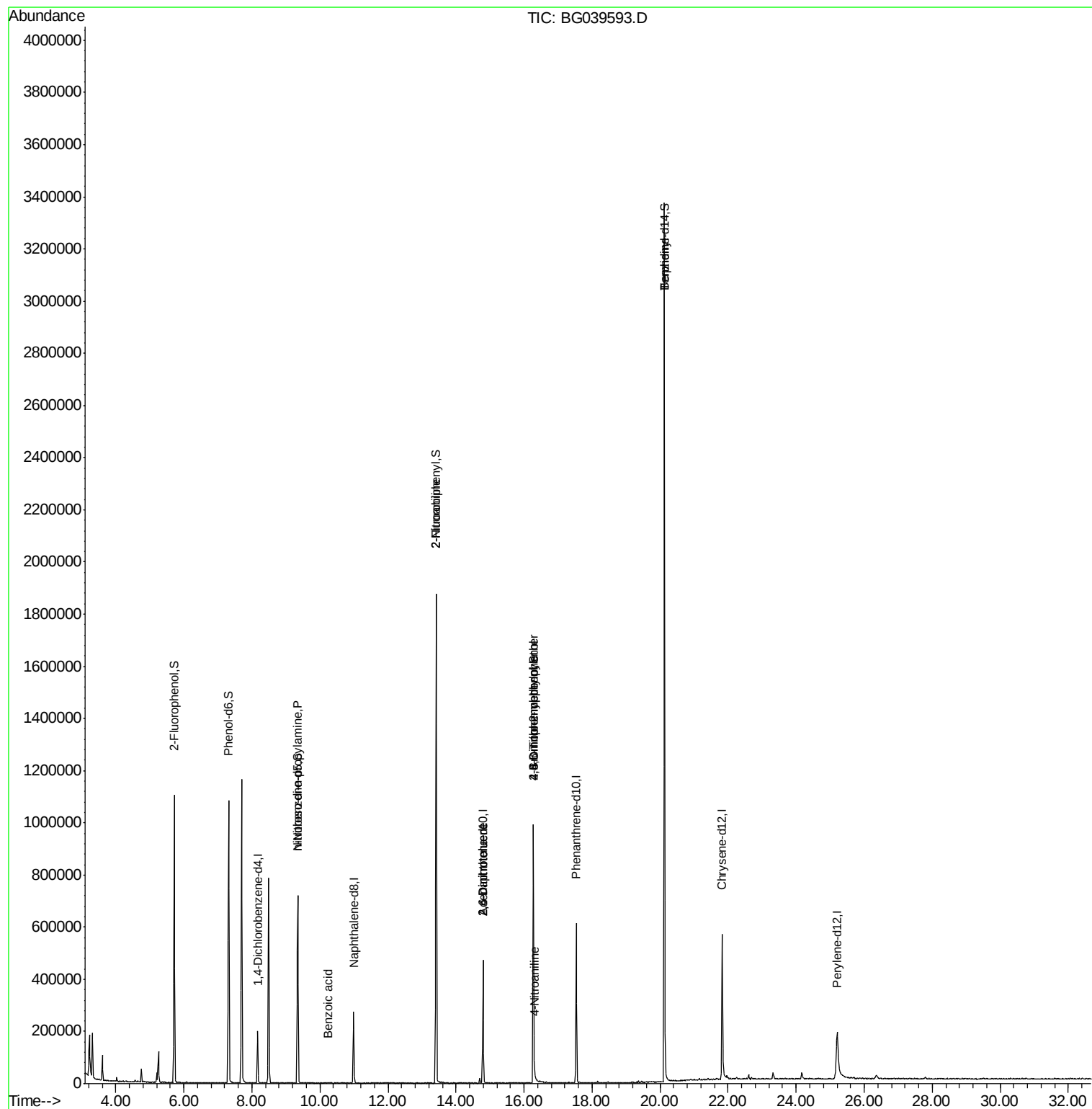
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.31  | 77   | 993      | Below Cal |       | # 4    |
| 19) n-Nitroso-di-n-propylamine | 9.35  | 70   | 55861    | 16.894    | ng    | # 71   |
| 32) Benzoic acid               | 10.22 | 122  | 1236     | 9.474     | ng    | # 82   |
| 48) 2-Nitroaniline             | 13.42 | 65   | 1826     | 8.803     | ng    | # 1    |
| 51) 2,6-Dinitrotoluene         | 14.79 | 165  | 21028    | 13.817    | ng    | # 25   |
| 57) 2,4-Dinitrotoluene         | 14.79 | 165  | 21028    | 13.318    | ng    | # 20   |
| 62) 4-Nitroaniline             | 16.31 | 138  | 59       | 4.222     | ng    | # 10   |
| 65) 4,6-Dinitro-2-methylphenol | 16.28 | 198  | 717      | 4.753     | ng    | # 3    |
| 67) 4-Bromophenyl-phenylether  | 16.28 | 248  | 15302    | 3.471     | ng    | # 1    |
| 77) Benzidine                  | 20.13 | 184  | 29976    | 2.268     | ng    | # 91   |

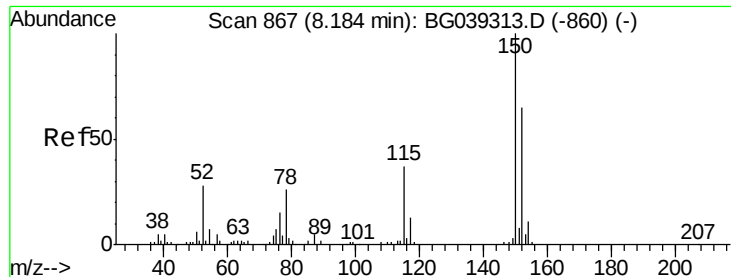
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K1348-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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OK-03-022219-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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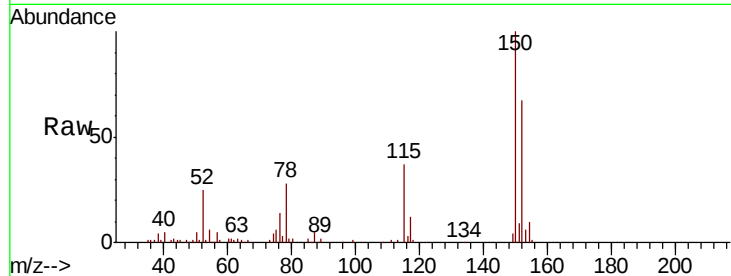


#1

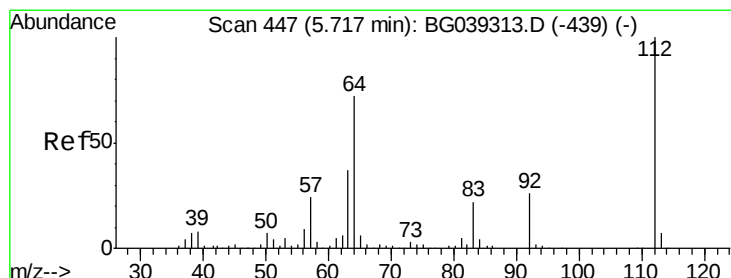
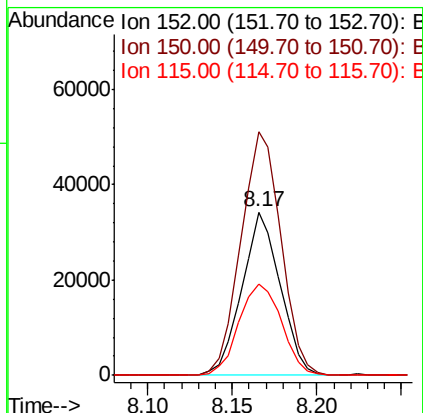
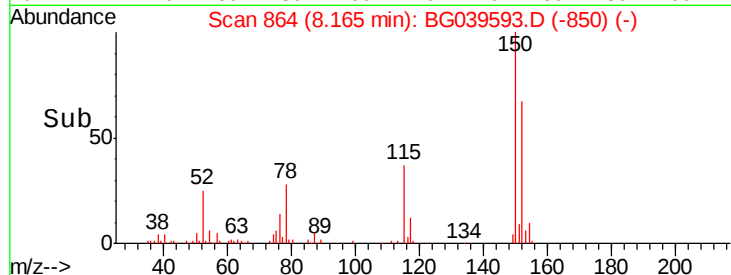
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.17 min Scan# 864  
Delta R.T. -0.02 min  
Lab File: BG039593.D  
Acq: 25 Feb 2019 19:11

Instrument :  
BNA\_G  
ClientSampleId :  
OK-03-022219-B

Tgt Ion:152 Resp: 54167  
Ion Ratio Lower Upper  
152 100  
150 149.1 123.7 185.5  
115 55.7 45.9 68.9



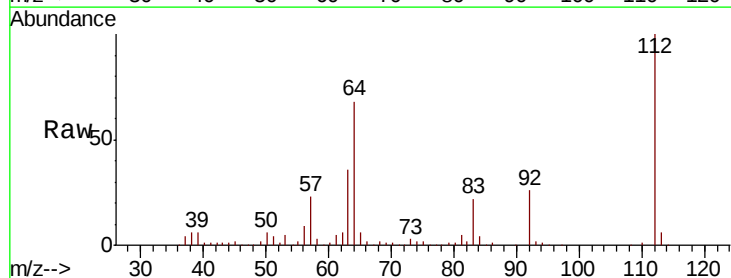
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



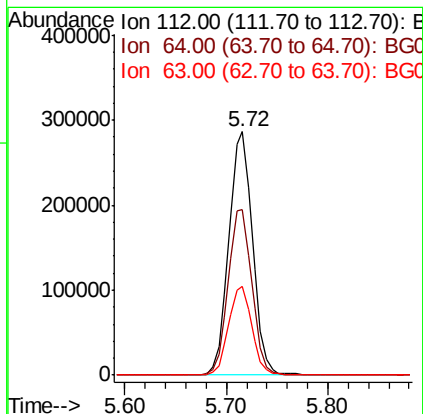
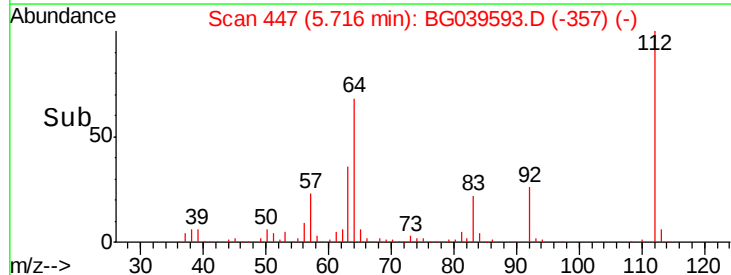
#5

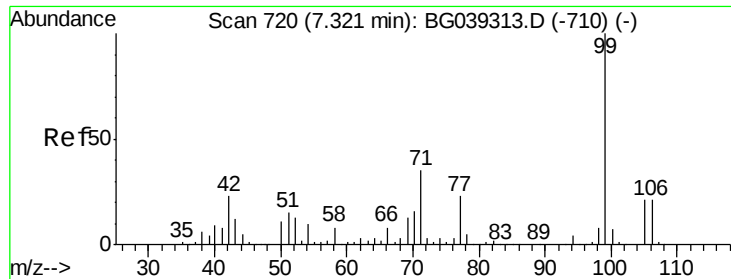
2-Fluorophenol  
Concen: 146.482 ng  
RT: 5.72 min Scan# 447  
Delta R.T. -0.00 min  
Lab File: BG039593.D  
Acq: 25 Feb 2019 19:11

Tgt Ion:112 Resp: 463595  
Ion Ratio Lower Upper  
112 100  
64 68.2 57.8 86.8  
63 36.2 29.8 44.6



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: 136.537 ng

RT: 7.31 min Scan# 719

Delta R.T. -0.01 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

Instrument :

BNA\_G

ClientSampleId :

OK-03-022219-B

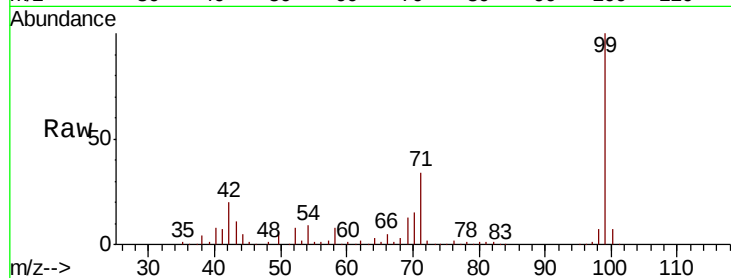
Tgt Ion: 99 Resp: 636070

Ion Ratio Lower Upper

99 100

42 19.9 18.2 27.2

71 34.4 28.0 42.0

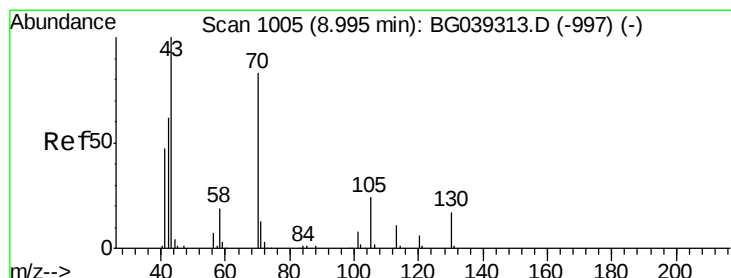
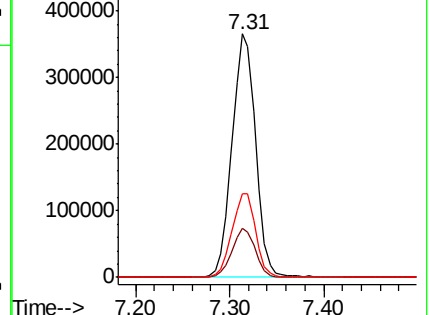
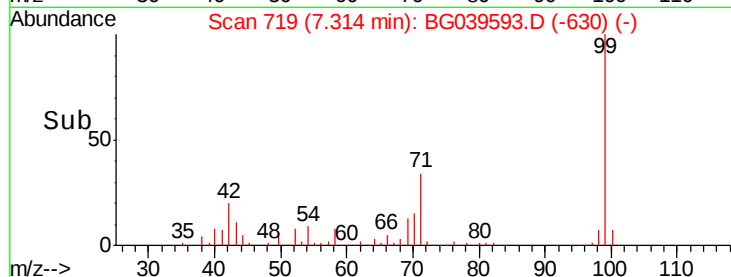


Abundance

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: 16.894 ng

RT: 9.35 min Scan# 1065

Delta R.T. 0.35 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

Tgt Ion: 70 Resp: 55861

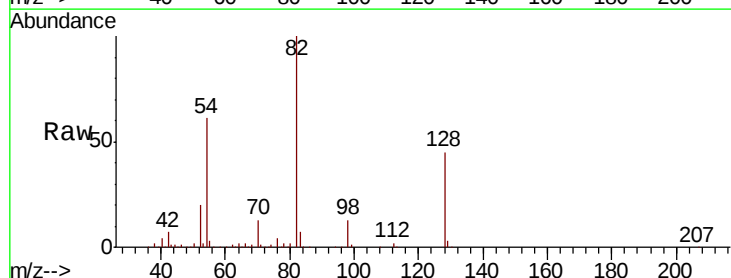
Ion Ratio Lower Upper

70 100

42 52.3 60.4 90.6#

101 0.0 7.5 11.3#

130 2.9 16.9 25.3#



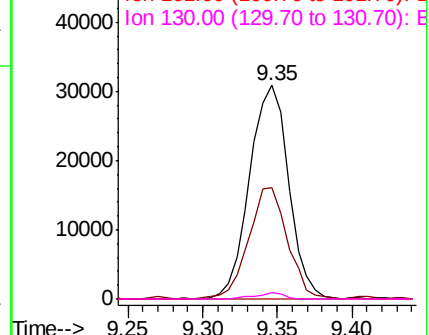
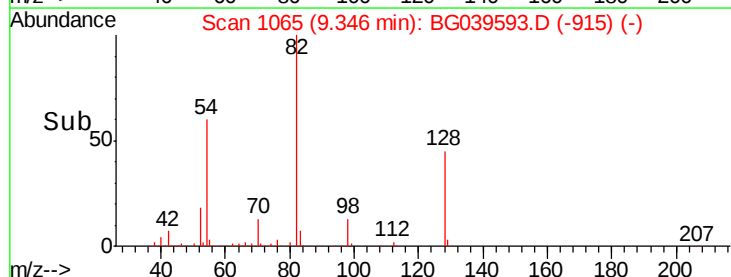
Abundance

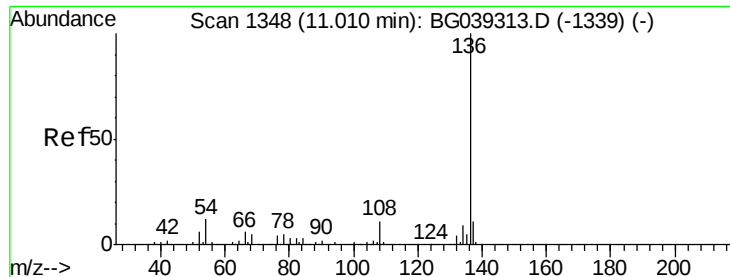
Ion 70.00 (69.70 to 70.70): BGC

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

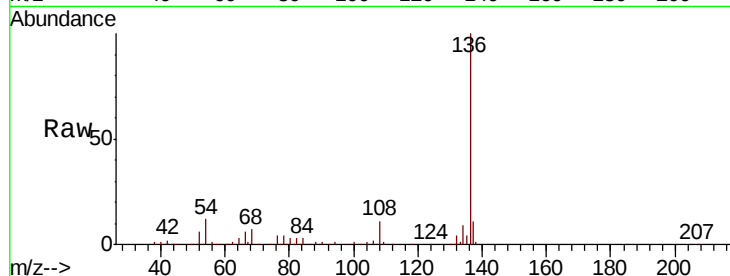




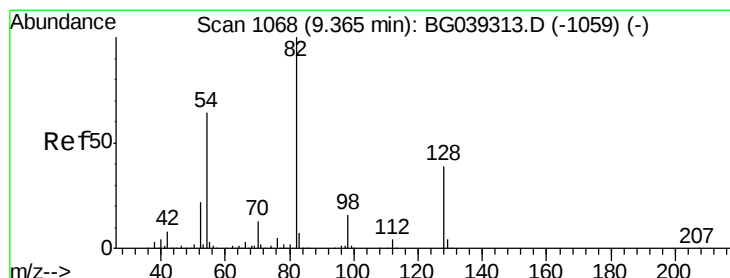
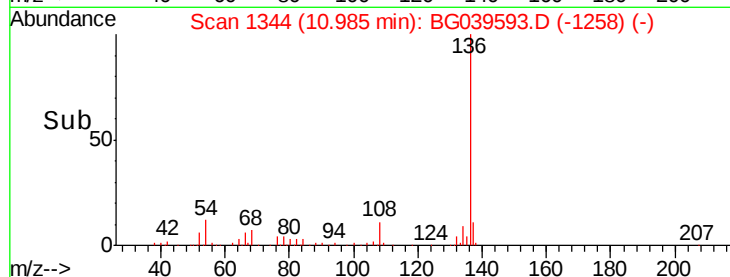
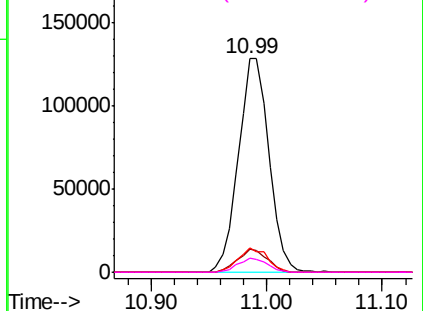
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1344  
Delta R.T. -0.02 min  
Lab File: BG039593.D  
Acq: 25 Feb 2019 19:11

Instrument :  
BNA\_G  
ClientSampleId :  
OK-03-022219-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 235707 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.1   | 13.7   |
| 54       | 11.7  | 9.4   | 14.2   |
| 68       | 6.7   | 4.2   | 6.4#   |

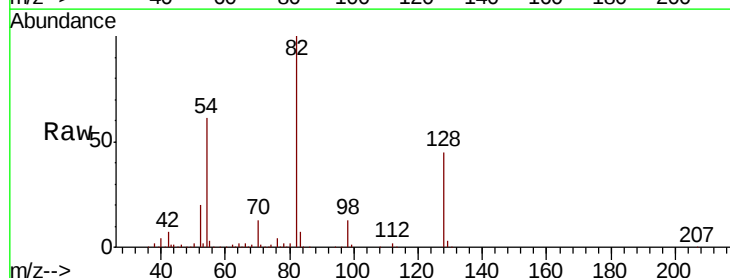


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

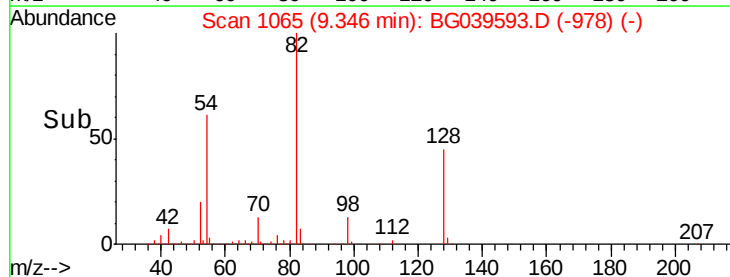
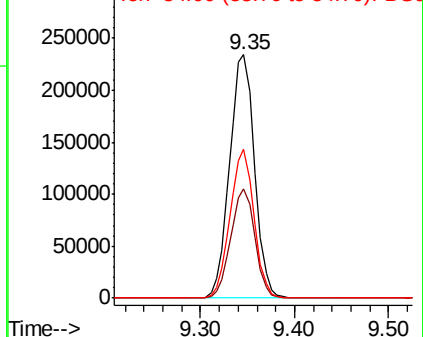


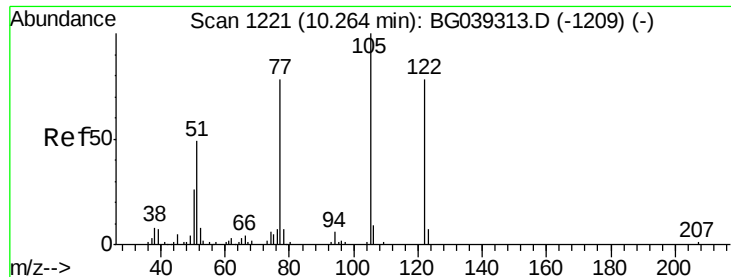
#23  
Nitrobenzene-d5  
Concen: 114.130 ng  
RT: 9.35 min Scan# 1065  
Delta R.T. -0.02 min  
Lab File: BG039593.D  
Acq: 25 Feb 2019 19:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 430614 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.9  | 31.3  | 46.9   |
| 54       | 61.0  | 50.9  | 76.3   |



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: 9.474 ng

RT: 10.22 min Scan# 1214

Delta R.T. -0.04 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

Instrument :

BNA\_G

ClientSampleId :

OK-03-022219-B

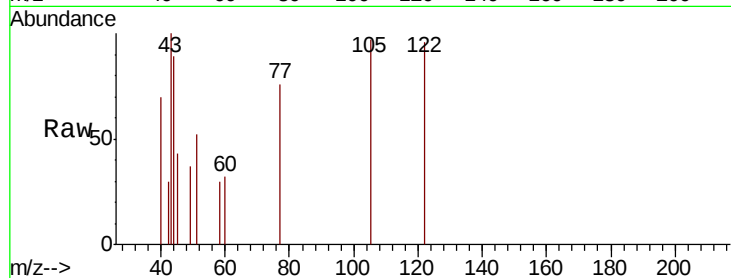
Tgt Ion:122 Resp: 1236

Ion Ratio Lower Upper

122 100

105 101.6 101.8 141.8#

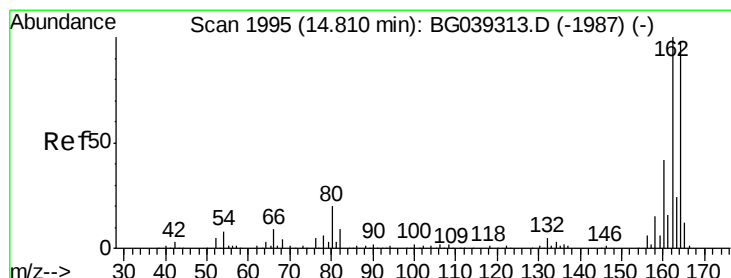
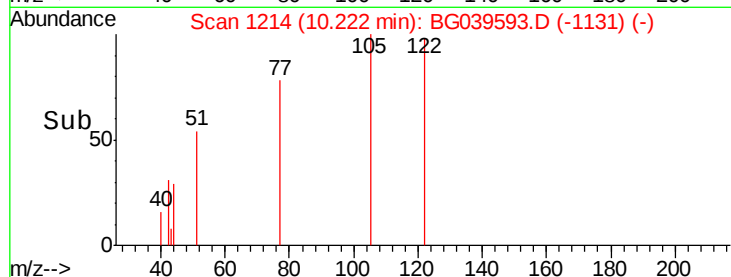
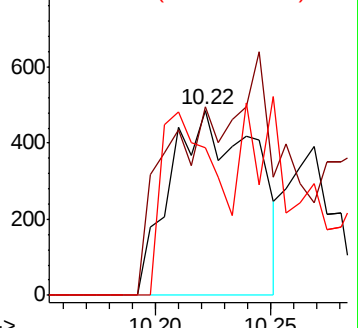
77 79.7 76.3 116.3



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: 14.79 min Scan# 1992

Delta R.T. -0.02 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

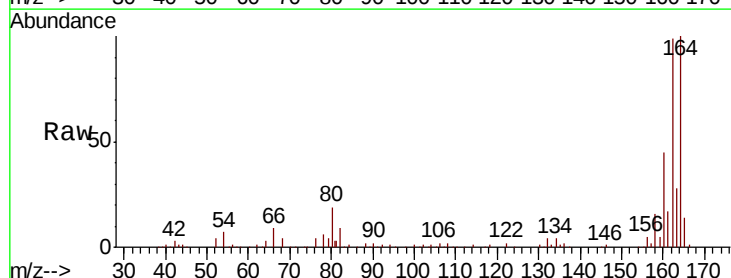
Tgt Ion:164 Resp: 165713

Ion Ratio Lower Upper

164 100

162 99.4 81.6 122.4

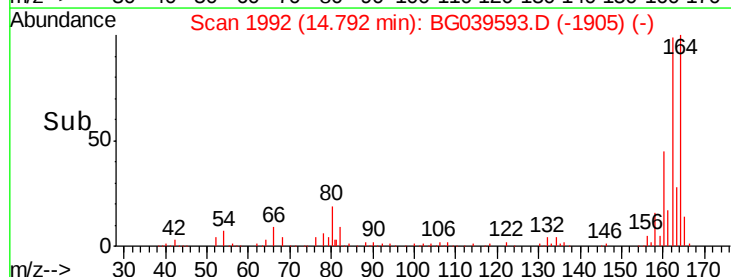
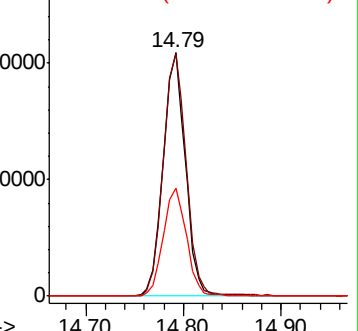
160 44.6 34.2 51.2

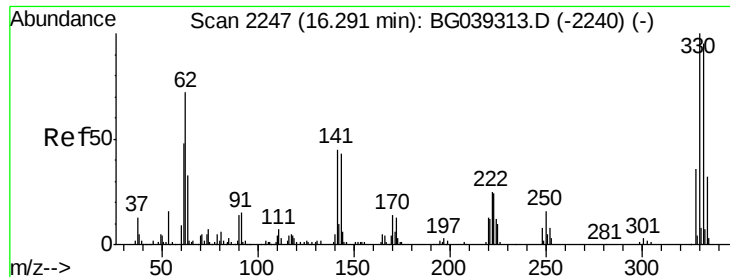


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

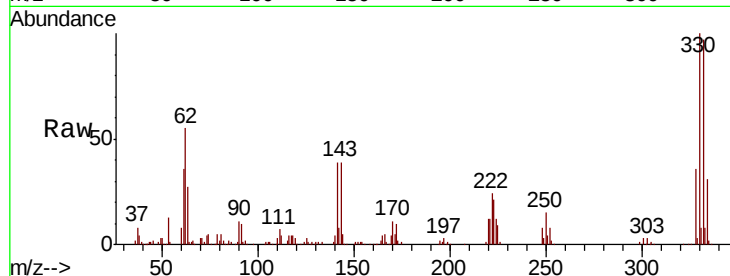




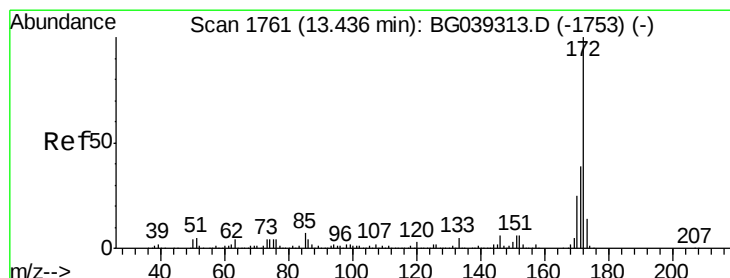
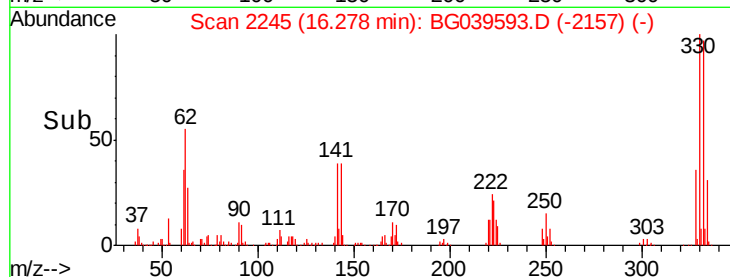
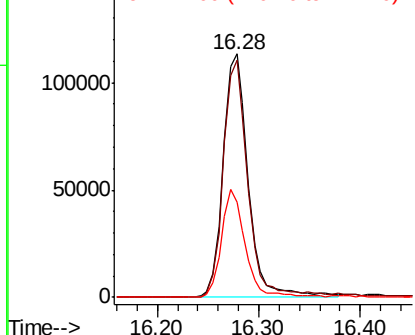
#42  
 2,4,6-Tribromophenol  
 Concen: 109.628 ng  
 RT: 16.28 min Scan# 2245  
 Delta R.T. -0.01 min  
 Lab File: BG039593.D  
 Acq: 25 Feb 2019 19:11

Instrument :  
 BNA\_G  
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 OK-03-022219-B

Tgt Ion:330 Resp: 195625  
 Ion Ratio Lower Upper  
 330 100  
 332 95.0 75.7 113.5  
 141 41.3 35.6 53.4

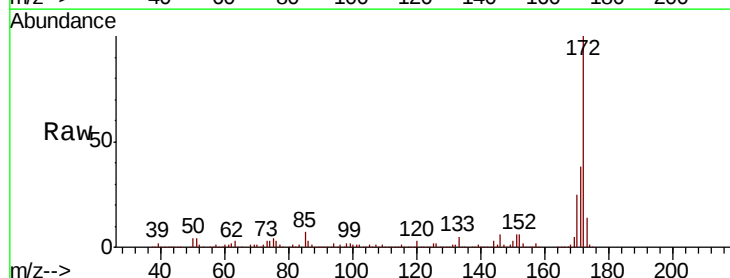


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

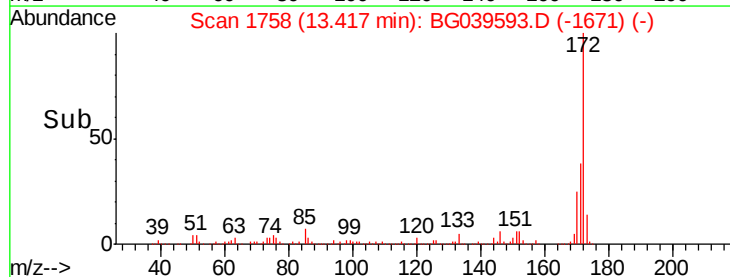
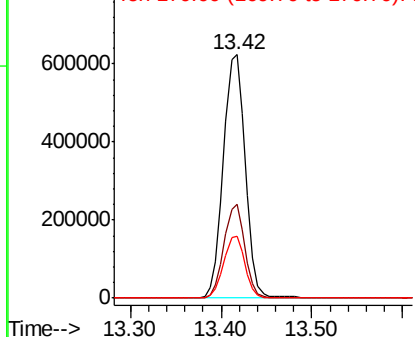


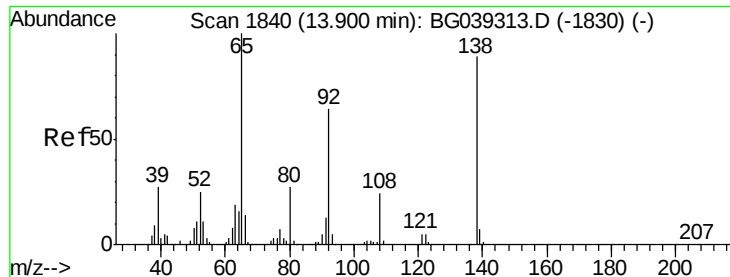
#45  
 2-Fluorobiphenyl  
 Concen: 90.738 ng  
 RT: 13.42 min Scan# 1758  
 Delta R.T. -0.02 min  
 Lab File: BG039593.D  
 Acq: 25 Feb 2019 19:11

Tgt Ion:172 Resp: 1048170  
 Ion Ratio Lower Upper  
 172 100  
 171 38.4 30.8 46.2  
 170 25.4 20.2 30.4



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

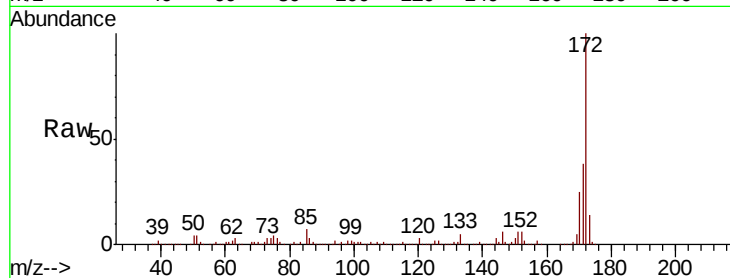




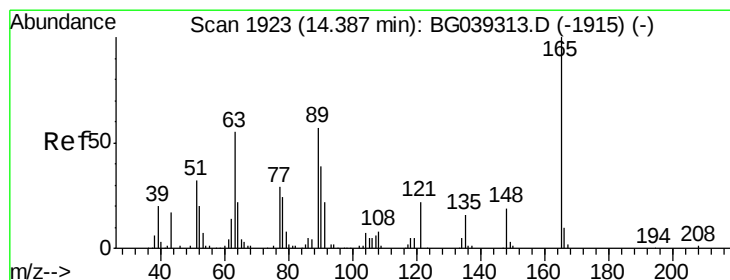
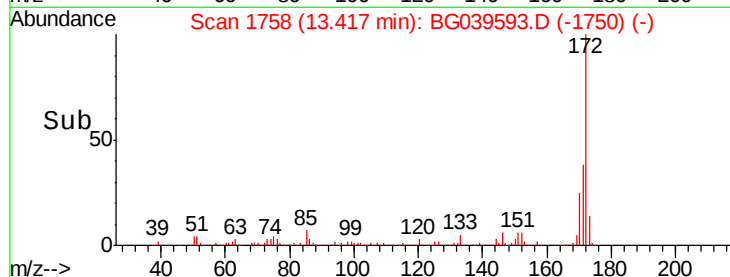
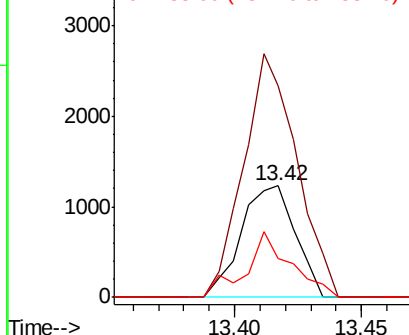
#48  
2-Nitroaniline  
Concen: 8.803 ng  
RT: 13.42 min Scan# 1758  
Delta R.T. -0.48 min  
Lab File: BG039593.D  
Acq: 25 Feb 2019 19:11

Instrument :  
BNA\_G  
ClientSampleId :  
OK-03-022219-B

Tgt Ion: 65 Resp: 1826  
Ion Ratio Lower Upper  
65 100  
92 190.1 51.4 77.2#  
138 34.6 71.4 107.2#

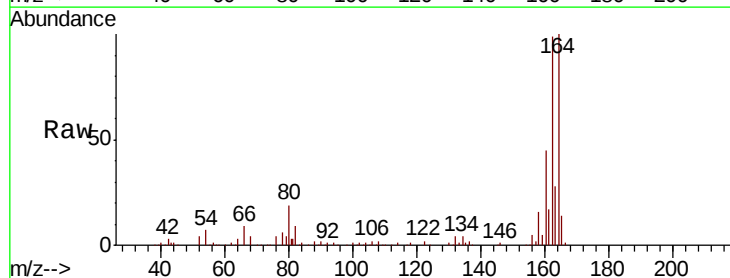


Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC

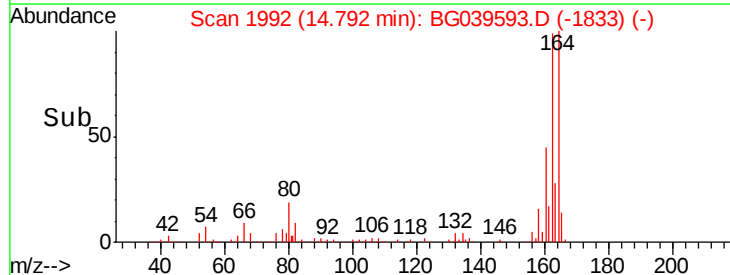
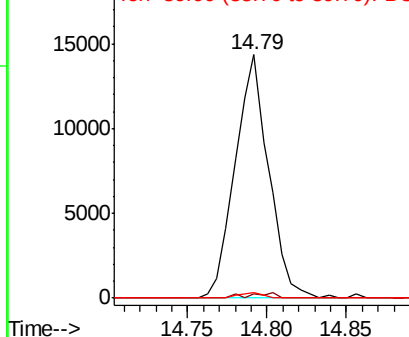


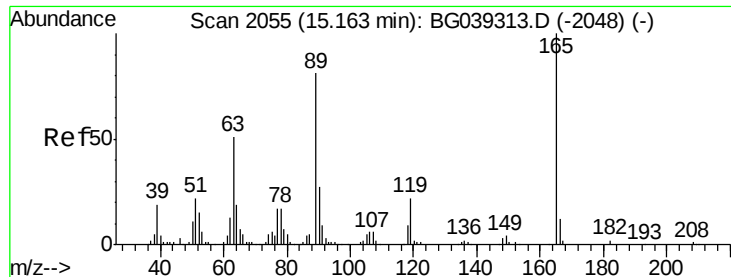
#51  
2,6-Dinitrotoluene  
Concen: 13.817 ng  
RT: 14.79 min Scan# 1992  
Delta R.T. 0.40 min  
Lab File: BG039593.D  
Acq: 25 Feb 2019 19:11

Tgt Ion: 165 Resp: 21028  
Ion Ratio Lower Upper  
165 100  
63 1.6 47.0 70.6#  
89 2.4 45.8 68.8#



Abundance Ion 165.00 (164.70 to 165.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC





#57

2,4-Dinitrotoluene

Concen: 13.318 ng

RT: 14.79 min Scan# 1992

Delta R.T. -0.37 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

Instrument :

BNA\_G

ClientSampleId :

OK-03-022219-B

Tgt Ion:165 Resp: 21028

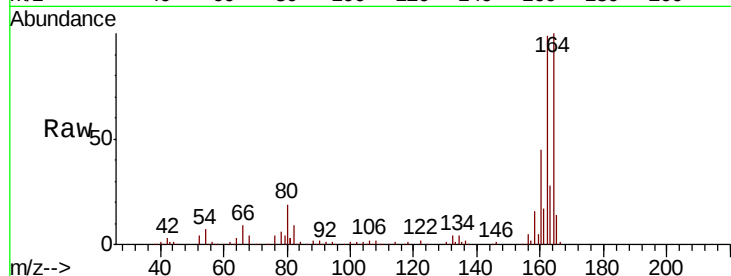
Ion Ratio Lower Upper

165 100

63 1.6 41.0 61.6#

89 2.4 64.6 96.8#

182 0.0 2.0 3.0#

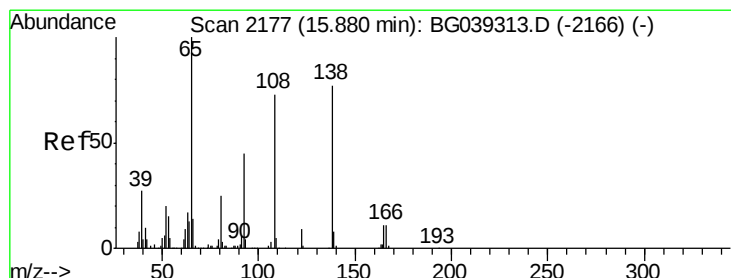
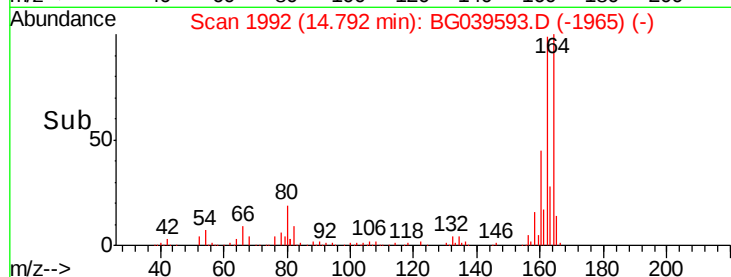
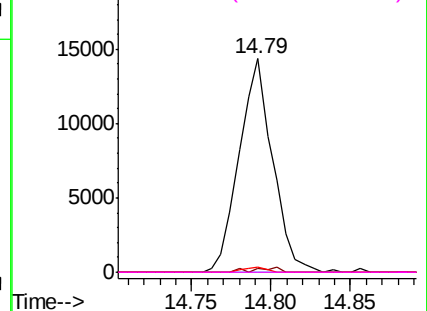


Abundance Ion 165.00 (164.70 to 165.70): E

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



#62

4-Nitroaniline

Concen: 4.222 ng

RT: 16.31 min Scan# 2250

Delta R.T. 0.43 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

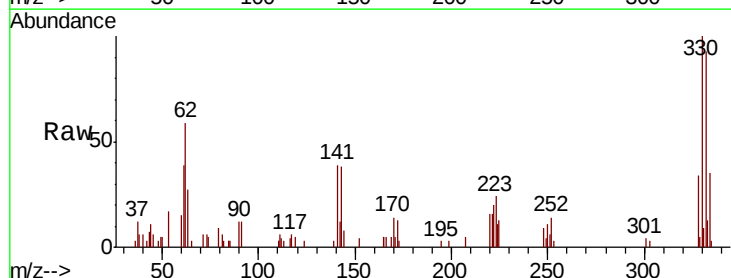
Tgt Ion:138 Resp: 59

Ion Ratio Lower Upper

138 100

92 0.0 38.7 78.7#

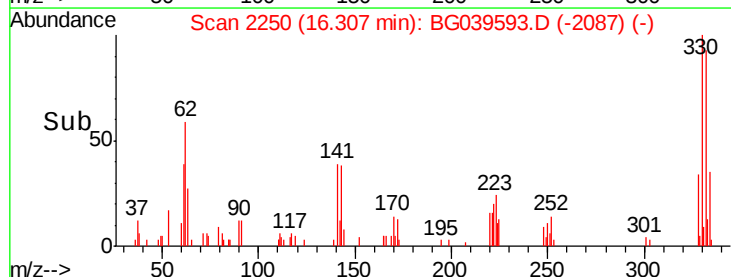
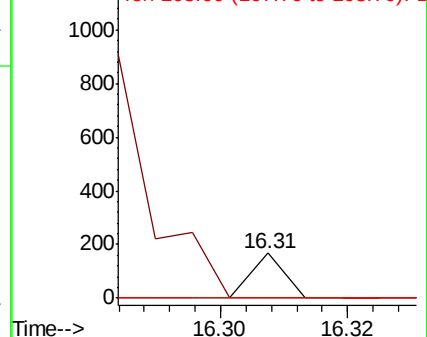
108 0.0 74.6 114.6#

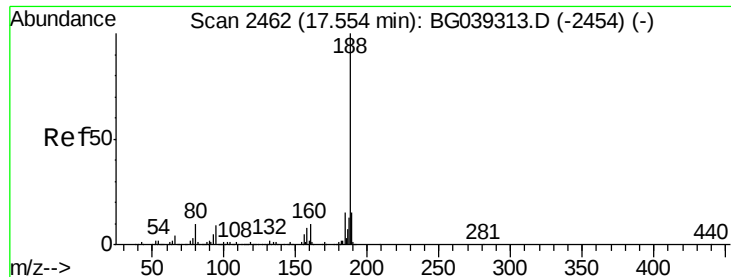


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BGC

Ion 108.00 (107.70 to 108.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.54 min Scan# 2459

Delta R.T. -0.02 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

Instrument :

BNA\_G

ClientSampleId :

OK-03-022219-B

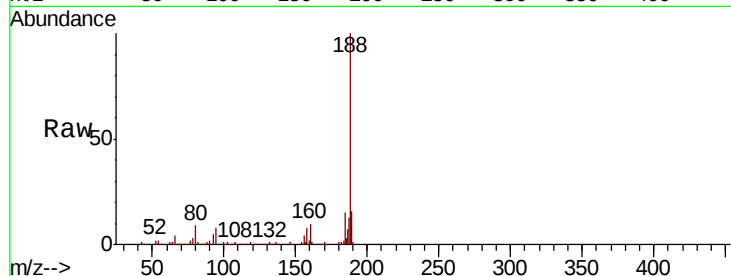
Tgt Ion:188 Resp: 397362

Ion Ratio Lower Upper

188 100

94 8.1 6.9 10.3

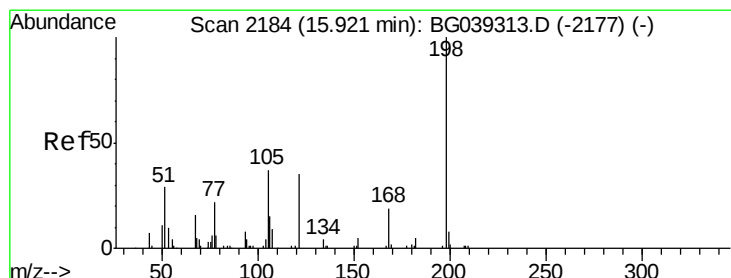
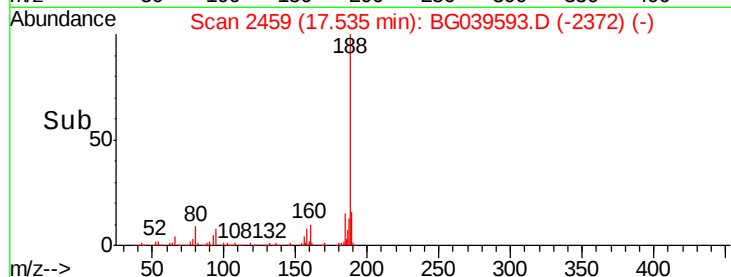
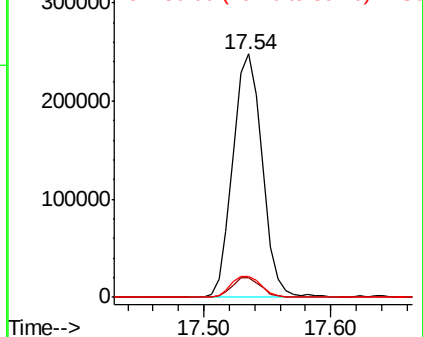
80 8.8 8.1 12.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0



#65

4,6-Dinitro-2-methylphenol

Concen: 4.753 ng

RT: 16.28 min Scan# 2245

Delta R.T. 0.36 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

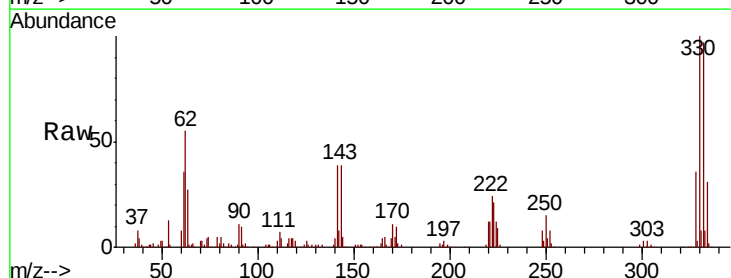
Tgt Ion:198 Resp: 717

Ion Ratio Lower Upper

198 100

51 64.4 27.4 67.4

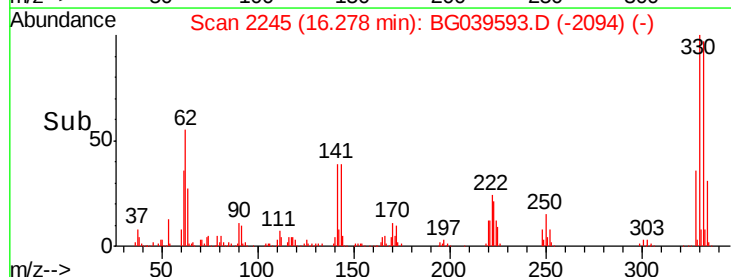
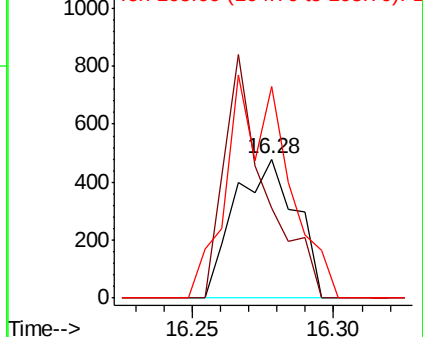
105 151.7 19.7 59.7#

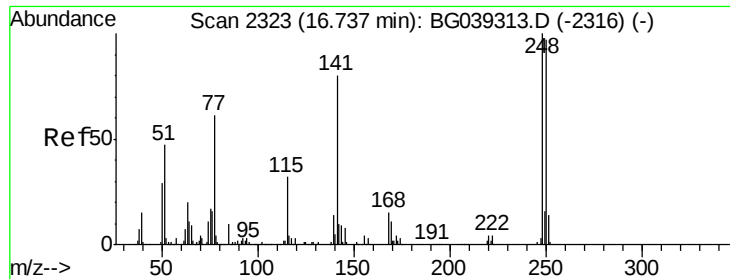


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E

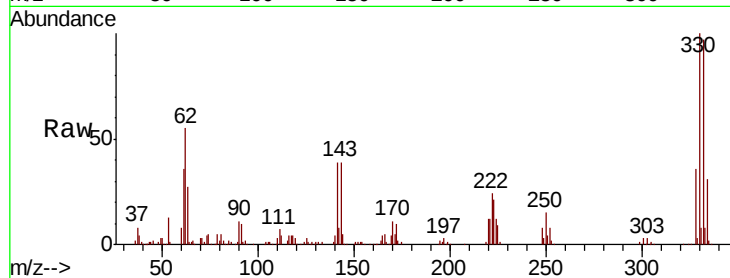




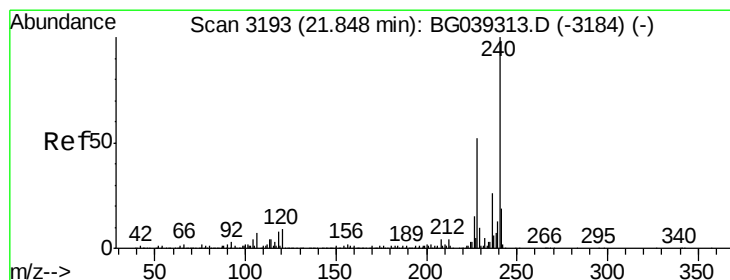
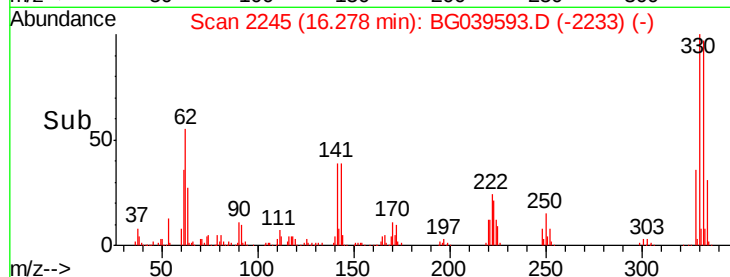
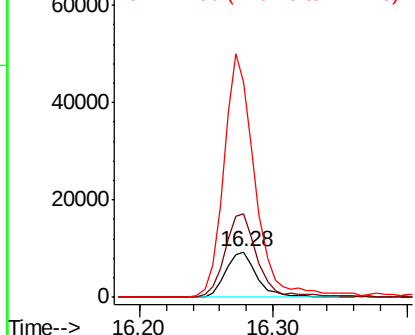
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.471 ng  
 RT: 16.28 min Scan# 2245  
 Delta R.T. -0.46 min  
 Lab File: BG039593.D  
 Acq: 25 Feb 2019 19:11

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OK-03-022219-B

Tgt Ion:248 Resp: 15302  
 Ion Ratio Lower Upper  
 248 100  
 250 185.4 77.6 116.4#  
 141 476.0 63.9 95.9#

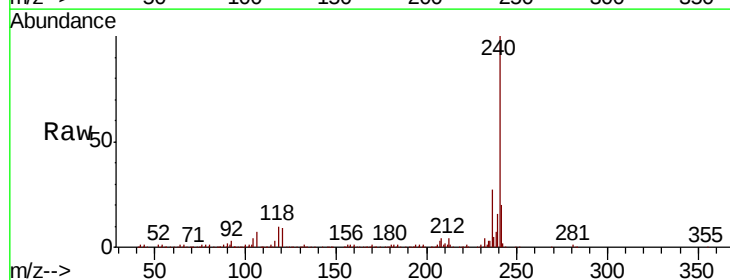


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

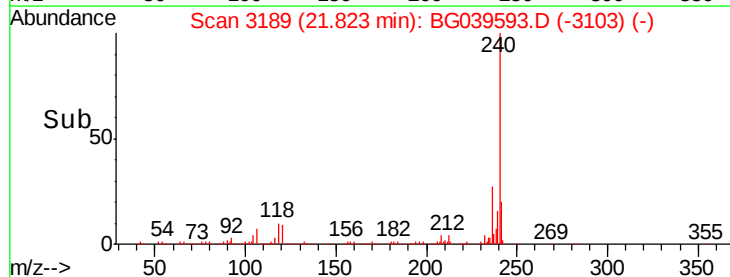
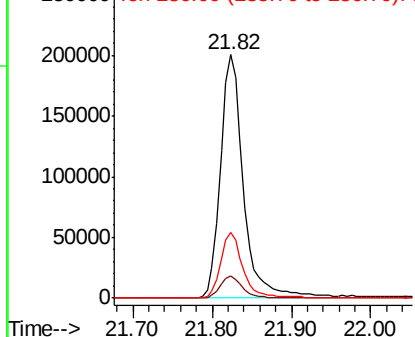


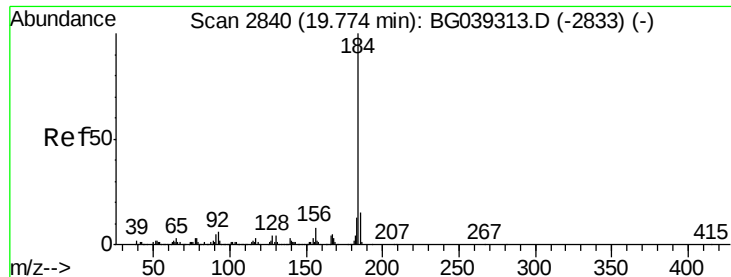
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.82 min Scan# 3189  
 Delta R.T. -0.02 min  
 Lab File: BG039593.D  
 Acq: 25 Feb 2019 19:11

Tgt Ion:240 Resp: 403179  
 Ion Ratio Lower Upper  
 240 100  
 120 8.9 7.0 10.6  
 236 27.2 21.0 31.4



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: 2.268 ng

RT: 20.13 min Scan# 2900

Delta R.T. 0.35 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

Instrument :

BNA\_G

ClientSampleId :

OK-03-022219-B

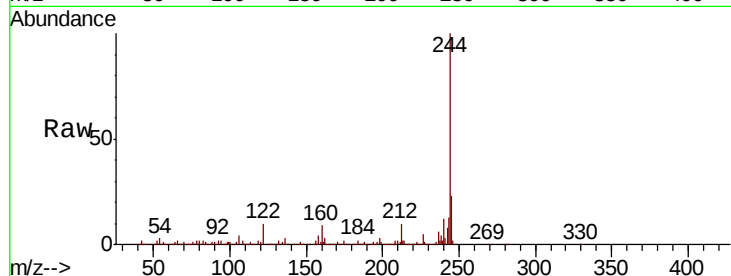
Tgt Ion:184 Resp: 29976

Ion Ratio Lower Upper

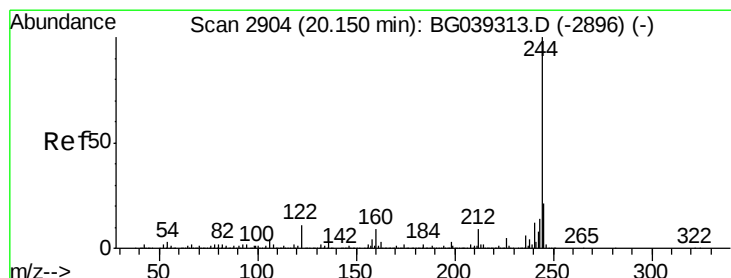
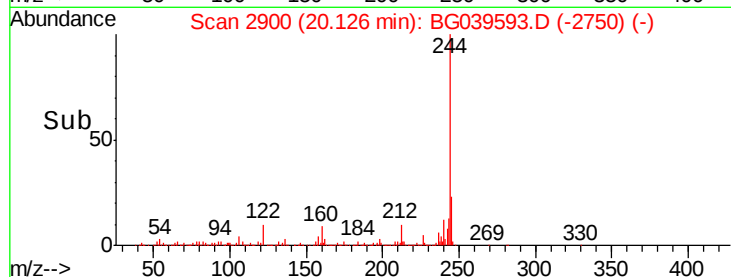
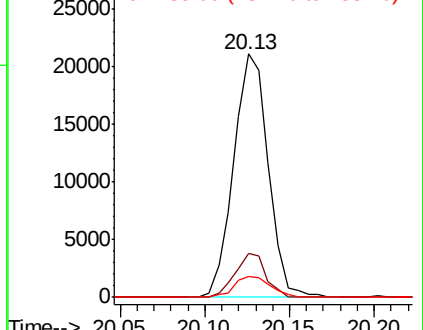
184 100

185 18.2 12.2 18.2

183 8.8 10.6 15.8#



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: 87.728 ng

RT: 20.13 min Scan# 2900

Delta R.T. -0.02 min

Lab File: BG039593.D

Acq: 25 Feb 2019 19:11

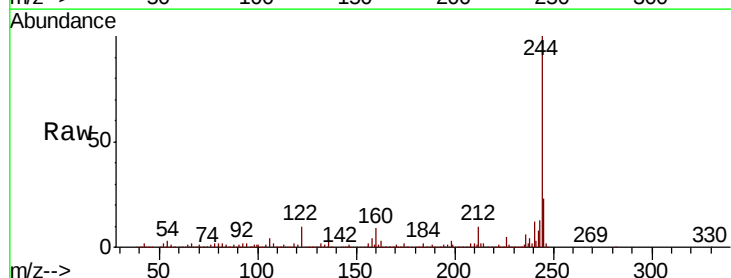
Tgt Ion:244 Resp: 1671008

Ion Ratio Lower Upper

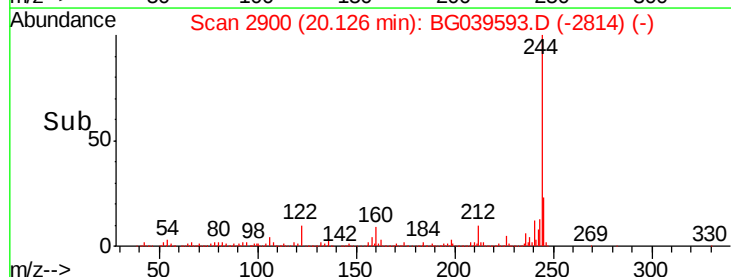
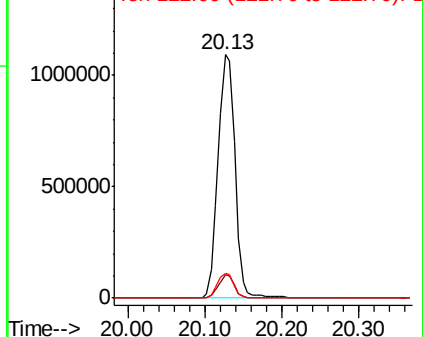
244 100

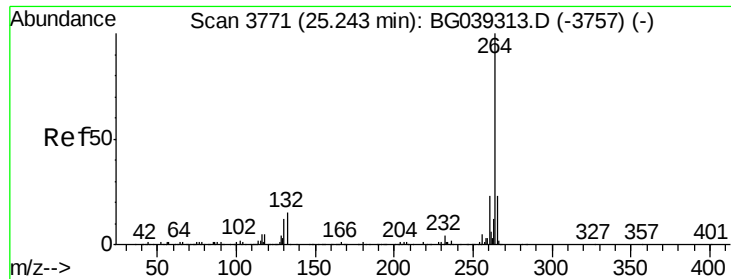
212 9.8 7.3 10.9

122 10.4 8.4 12.6



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  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.21 min Scan# 3765  
Delta R.T. -0.04 min  
Lab File: BG039593.D  
Acq: 25 Feb 2019 19:11

Instrument :  
BNA\_G  
ClientSampleId :  
OK-03-022219-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.0  | 18.2  | 27.4  |
| 265     | 19.7  | 18.5  | 27.7  |

