

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG060319\  
 Data File : BG041035.D  
 Acq On : 3 Jun 2019 15:37  
 Operator : HP/JU  
 Sample : K3040-02RE  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 0445-FIELD-BLANK-2

Quant Time: Jun 04 08:04:42 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 18:39:57 2019  
 Response via : Initial Calibration

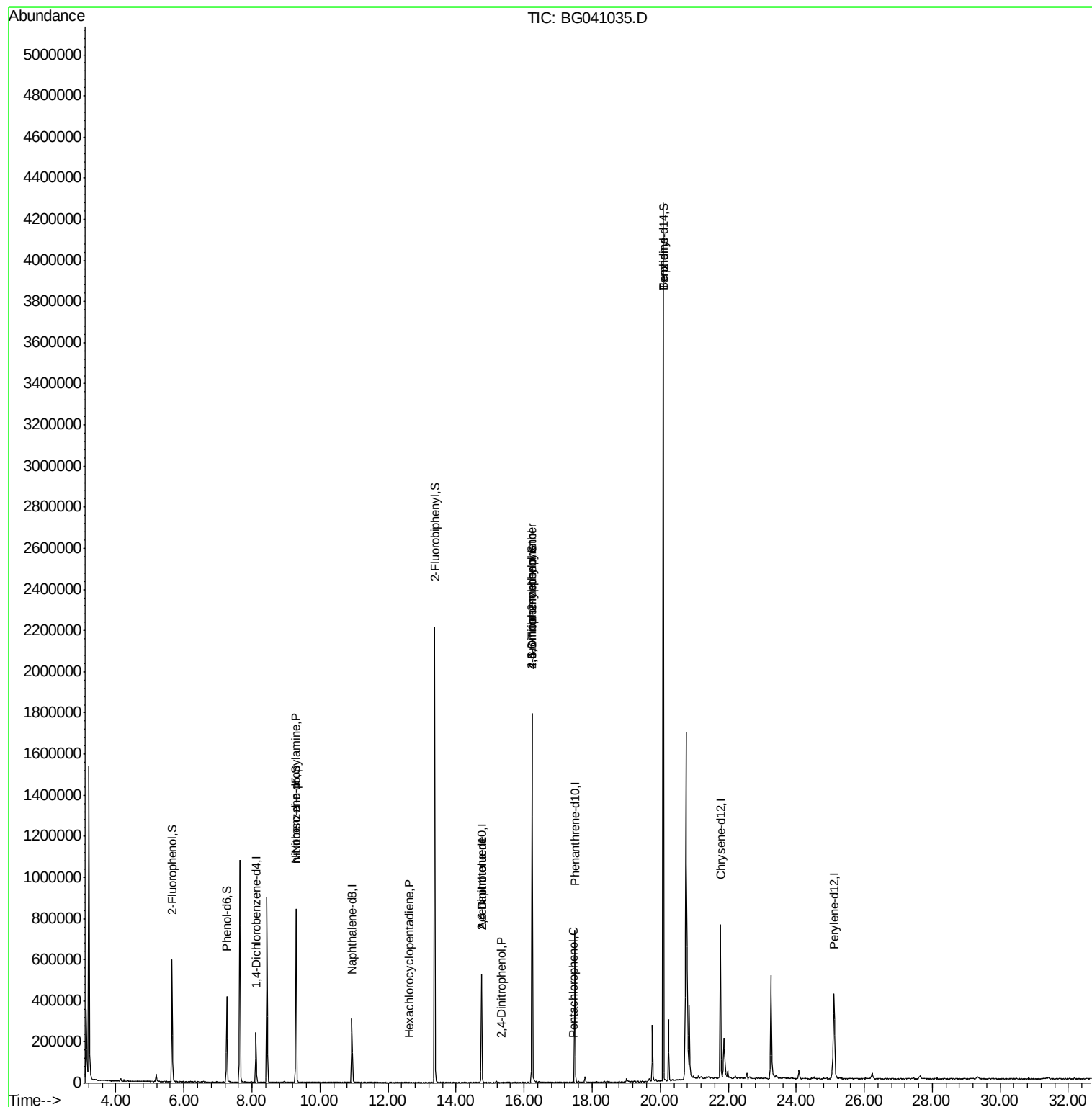
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.12  | 152  | 65224    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.94 | 136  | 256317   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.75 | 164  | 183750   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 17.49 | 188  | 455011   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.77 | 240  | 467206   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 25.11 | 264  | 490641   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.65  | 112  | 236031   | 65.25  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.26  | 99   | 219377   | 39.27  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.30  | 82   | 506842   | 87.78  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.24 | 330  | 357398   | 131.02 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.38 | 172  | 1125429  | 88.20  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.09 | 244  | 1940457  | 88.15  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.30  | 70   | 74235    | 17.268 | ng    | # 74     |
| 41) Hexachlorocyclopentadiene  | 12.61 | 237  | 59       | 8.249  | ng    | # 26     |
| 51) 2,6-Dinitrotoluene         | 14.75 | 165  | 23970    | 7.147  | ng    | # 18     |
| 54) 2,4-Dinitrophenol          | 15.34 | 184  | 78       | 8.307  | ng    | # 18     |
| 57) 2,4-Dinitrotoluene         | 14.75 | 165  | 23970    | 5.060  | ng    | # 20     |
| 65) 4,6-Dinitro-2-methylphenol | 16.23 | 198  | 1176     | 8.986  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.23 | 248  | 26873    | 4.376  | ng    | # 1      |
| 70) Pentachlorophenol          | 17.44 | 266  | 54       | 4.271  | ng    | # 18     |
| 77) Benzidine                  | 20.09 | 184  | 34934    | 3.134  | ng    | 94       |

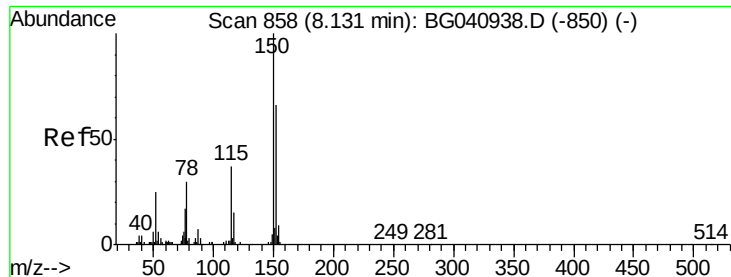
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG060319\  
Data File : BG041035.D  
Acq On : 3 Jun 2019 15:37  
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Sample : K3040-02RE  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0445-FIELD-BLANK-2

Quant Time: Jun 04 08:04:42 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 18:39:57 2019  
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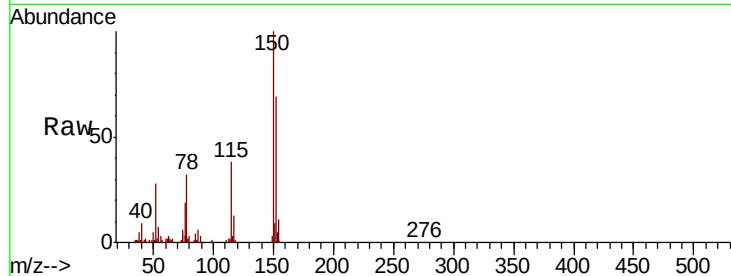


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.12 min Scan# 856  
Delta R.T. -0.01 min  
Lab File: BG041035.D  
Acq: 3 Jun 2019 15:37

Instrument :  
BNA\_G  
ClientSampleId :  
0445-FIELD-BLANK-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 144.6 | 120.6 | 180.8 |
| 115     | 54.6  | 45.1  | 67.7  |

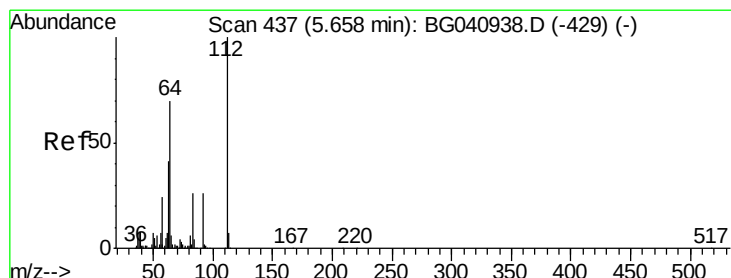
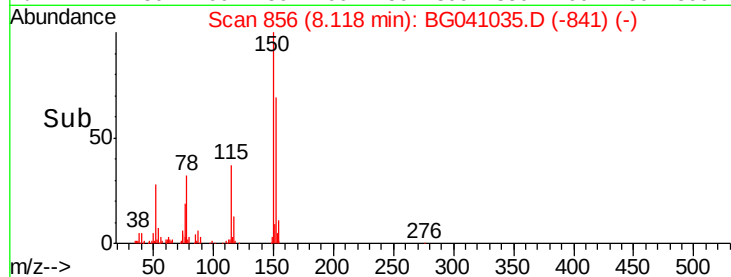
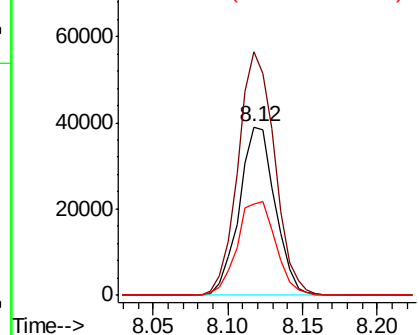


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

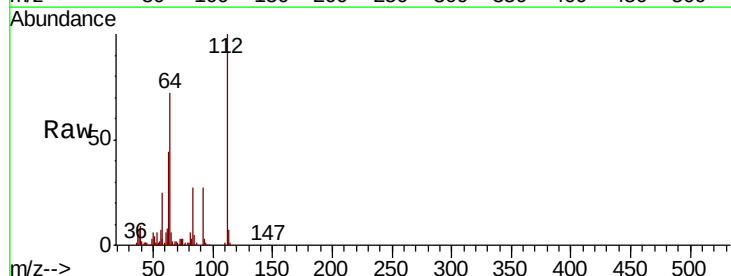
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 65.254 ng  
RT: 5.65 min Scan# 436  
Delta R.T. -0.01 min  
Lab File: BG041035.D  
Acq: 3 Jun 2019 15:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.8  | 56.2  | 84.2  |
| 63      | 43.8  | 32.8  | 49.2  |

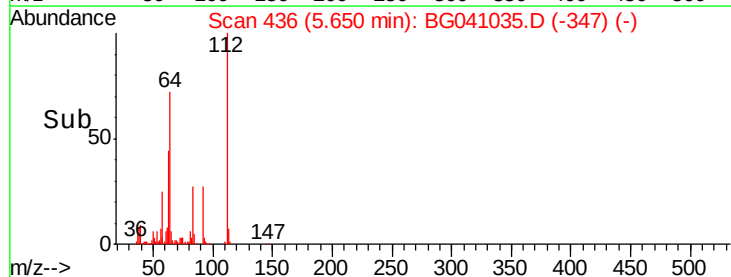
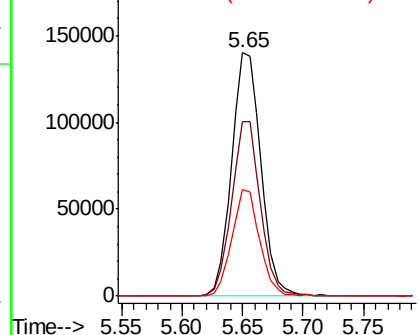


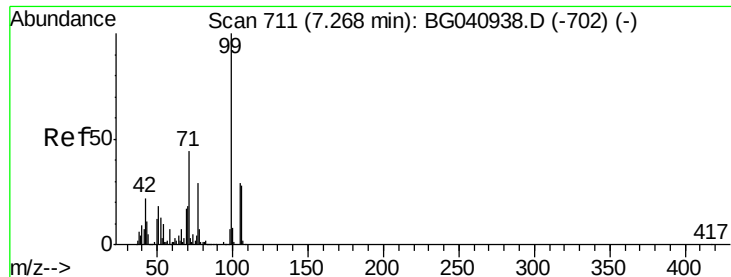
Abundance

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: 39.271 ng

RT: 7.26 min Scan# 710

Delta R.T. -0.01 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

Instrument :

BNA\_G

ClientSampleId :

0445-FIELD-BLANK-2

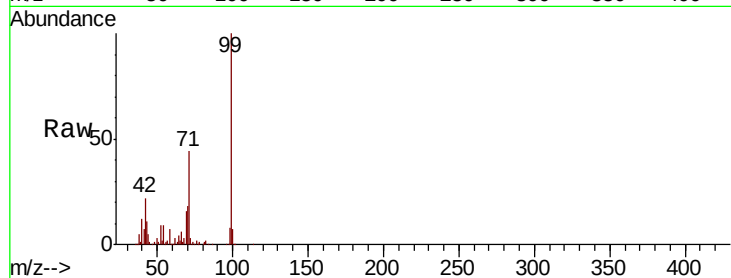
Tgt Ion: 99 Resp: 219377

Ion Ratio Lower Upper

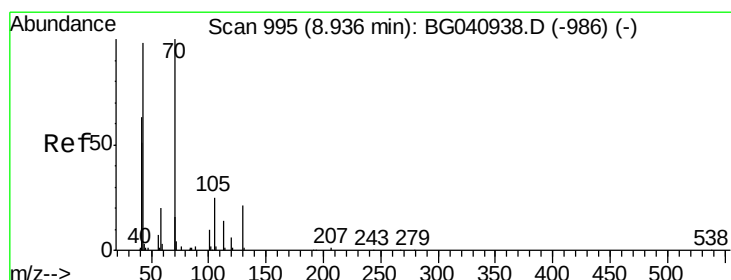
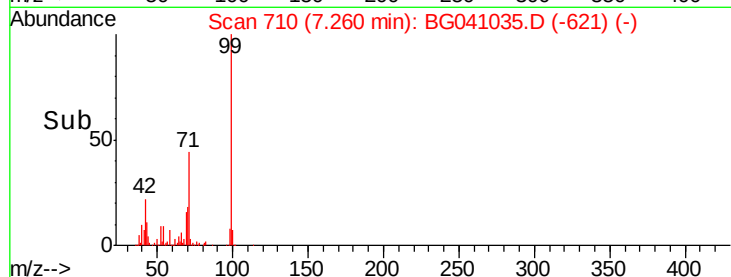
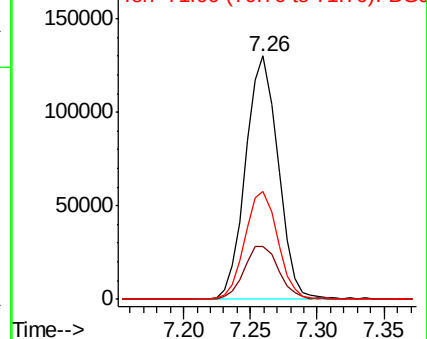
99 100

42 21.9 17.9 26.9

71 44.4 35.4 53.0



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: 17.268 ng

RT: 9.30 min Scan# 1057

Delta R.T. 0.36 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

Tgt Ion: 70 Resp: 74235

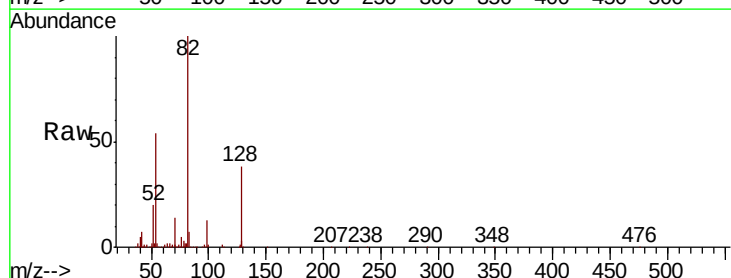
Ion Ratio Lower Upper

70 100

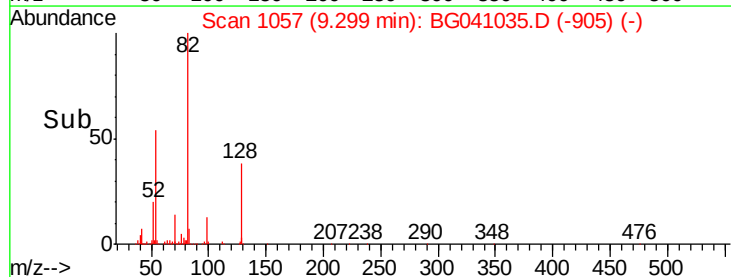
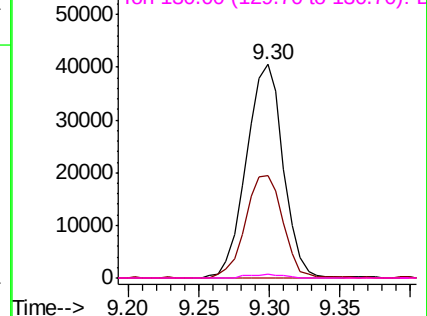
42 47.8 51.5 77.3#

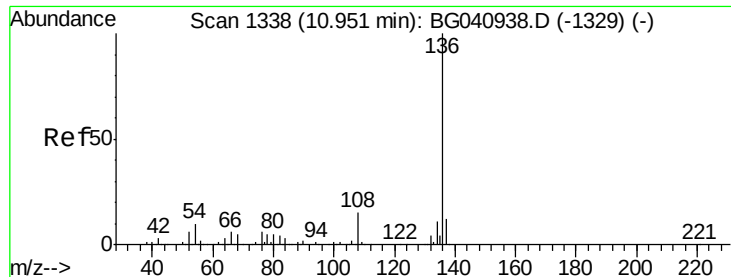
101 0.0 8.1 12.1#

130 2.0 16.6 24.8#



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

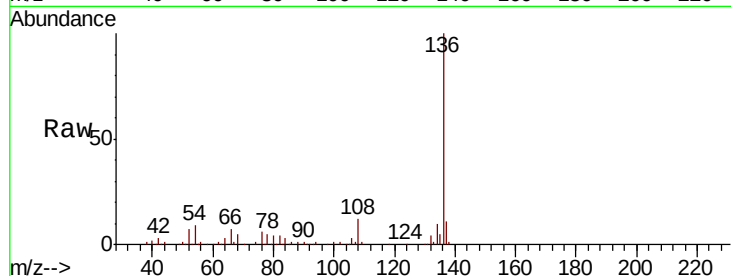




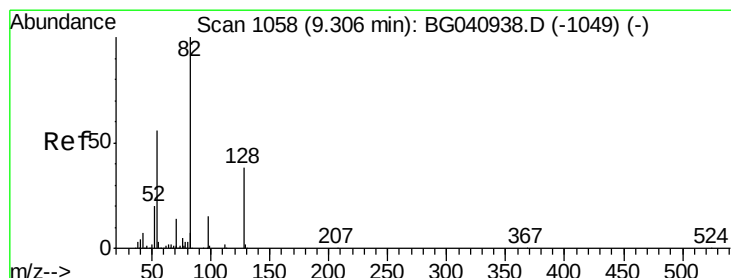
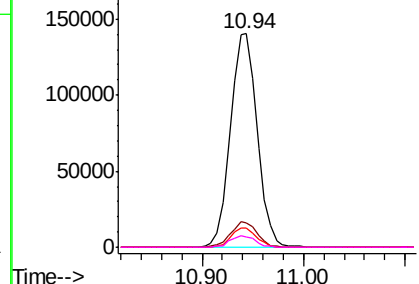
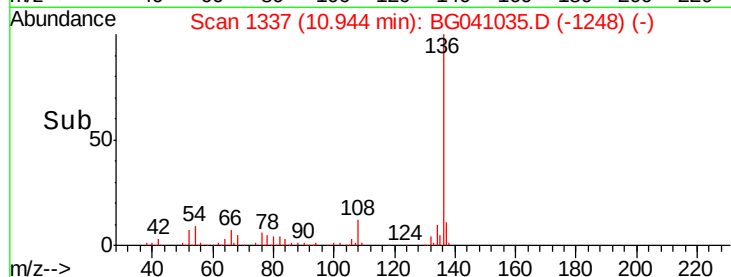
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.94 min Scan# 1337  
Delta R.T. -0.01 min  
Lab File: BG041035.D  
Acq: 3 Jun 2019 15:37

Instrument :  
BNA\_G  
ClientSampleId :  
0445-FIELD-BLANK-2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 256317 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.5   | 14.3   |
| 54       | 8.8   | 7.6   | 11.4   |
| 68       | 4.8   | 3.9   | 5.9    |

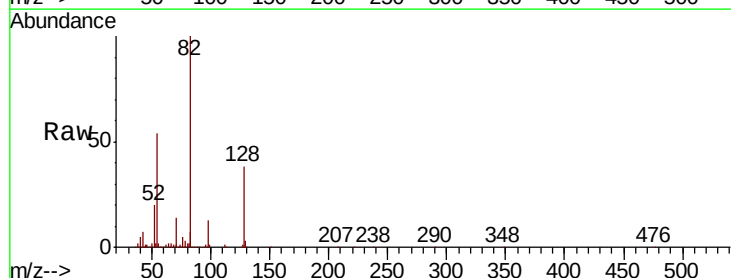


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

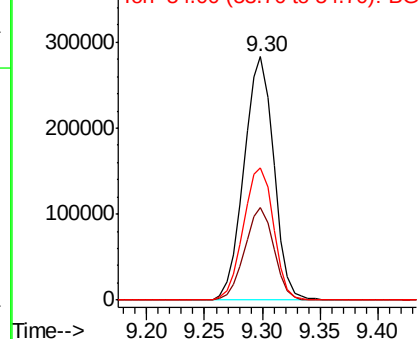
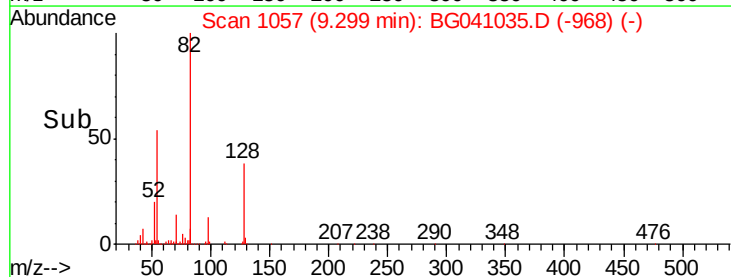


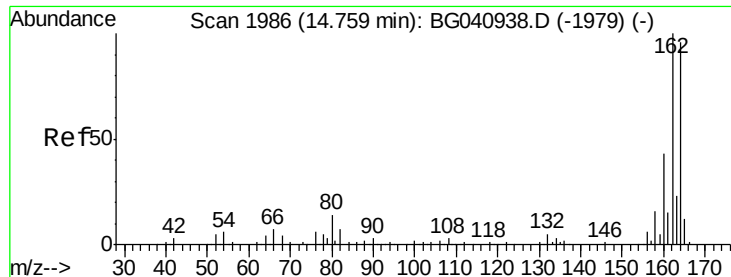
#23  
Nitrobenzene-d5  
Concen: 87.784 ng  
RT: 9.30 min Scan# 1057  
Delta R.T. -0.01 min  
Lab File: BG041035.D  
Acq: 3 Jun 2019 15:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 506842 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 37.9  | 30.5  | 45.7   |
| 54       | 54.2  | 44.6  | 66.8   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.75 min Scan# 1984

Delta R.T. -0.01 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

Instrument :

BNA\_G

ClientSampleId :

0445-FIELD-BLANK-2

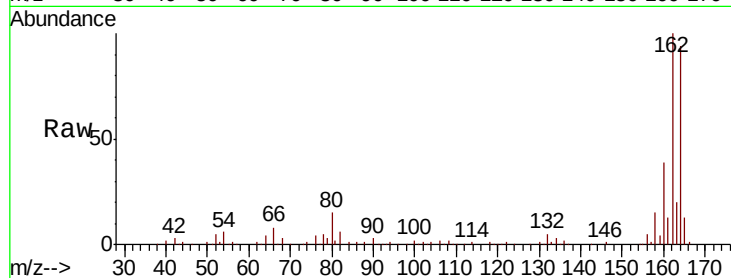
Tgt Ion:164 Resp: 183750

Ion Ratio Lower Upper

164 100

162 106.9 83.0 124.4

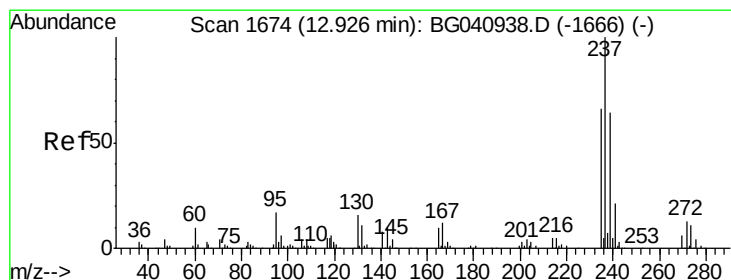
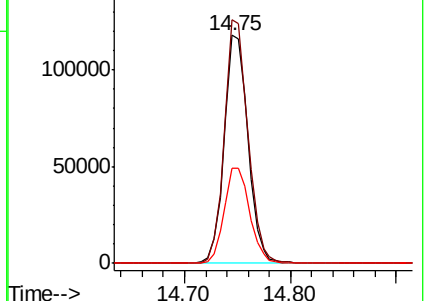
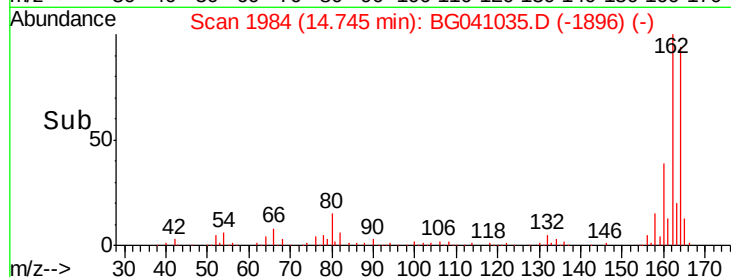
160 41.6 35.6 53.4



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



#41

Hexachlorocyclopentadiene

Concen: 8.249 ng

RT: 12.61 min Scan# 1621

Delta R.T. -0.31 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

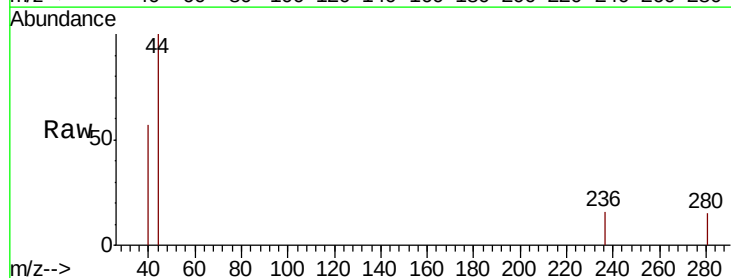
Tgt Ion:237 Resp: 59

Ion Ratio Lower Upper

237 100

235 0.0 45.5 85.5#

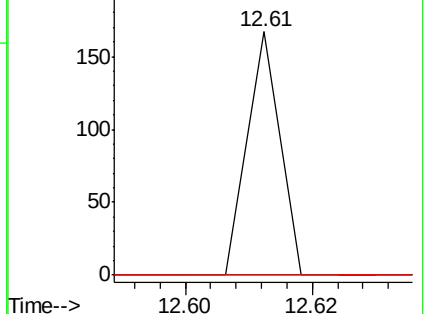
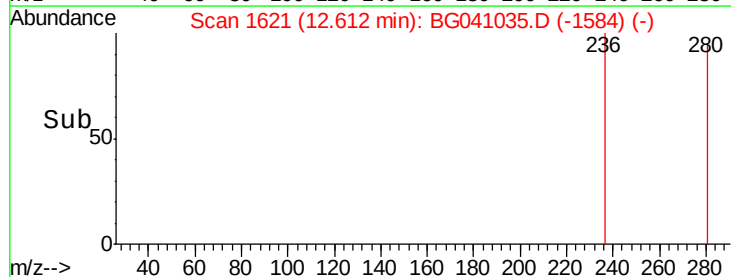
272 0.0 0.0 32.9

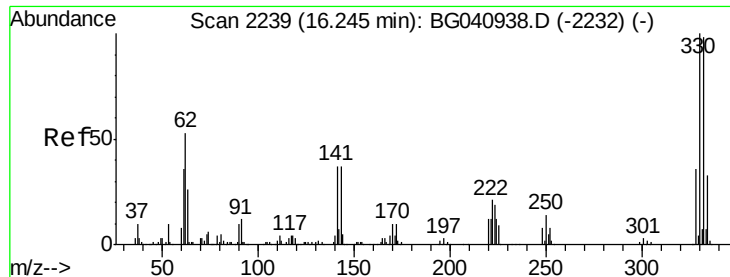


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

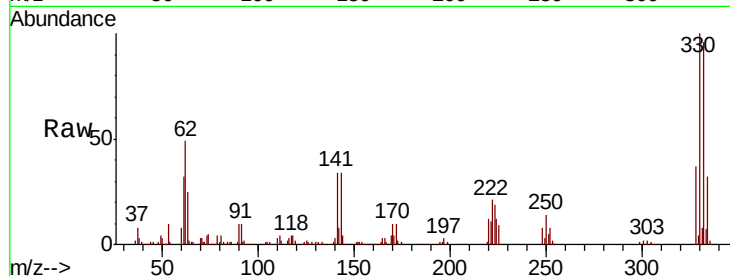




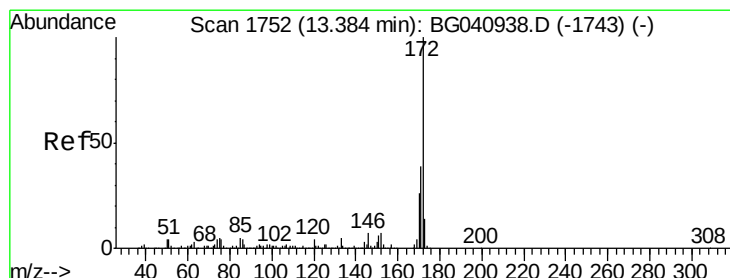
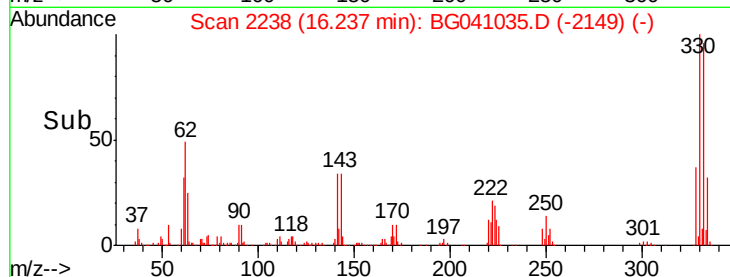
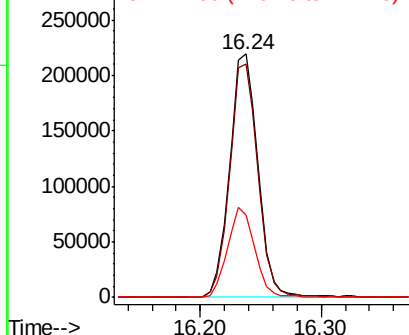
#42  
 2,4,6-Tribromophenol  
 Concen: 131.016 ng  
 RT: 16.24 min Scan# 2238  
 Delta R.T. -0.01 min  
 Lab File: BG041035.D  
 Acq: 3 Jun 2019 15:37

Instrument :  
 BNA\_G  
 ClientSampleId :  
 0445-FIELD-BLANK-2

Tgt Ion:330 Resp: 357398  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 78.5 117.7  
 141 35.7 28.7 43.1

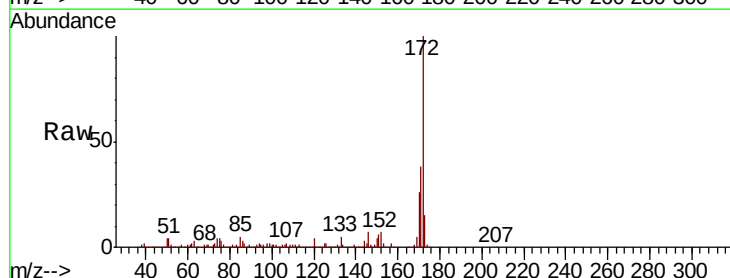


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

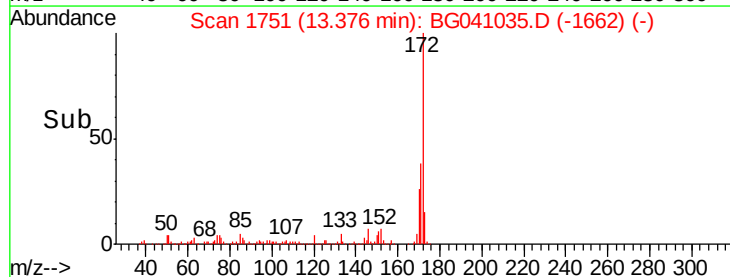
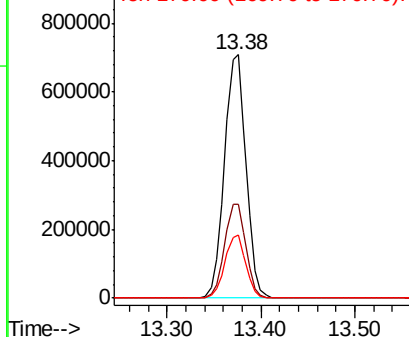


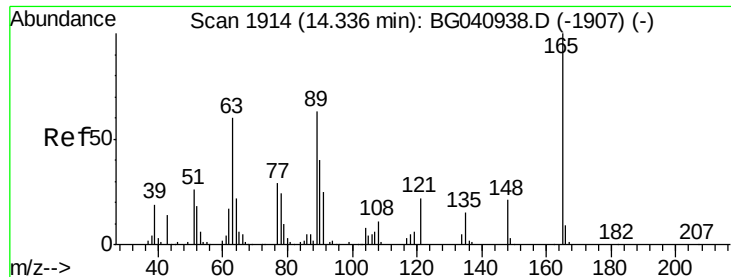
#45  
 2-Fluorobiphenyl  
 Concen: 88.203 ng  
 RT: 13.38 min Scan# 1751  
 Delta R.T. -0.01 min  
 Lab File: BG041035.D  
 Acq: 3 Jun 2019 15:37

Tgt Ion:172 Resp: 1125429  
 Ion Ratio Lower Upper  
 172 100  
 171 38.3 31.1 46.7  
 170 26.0 20.5 30.7



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





#51

2,6-Dinitrotoluene

Concen: 7.147 ng

RT: 14.75 min Scan# 1984

Delta R.T. 0.41 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

Instrument :

BNA\_G

ClientSampleId :

0445-FIELD-BLANK-2

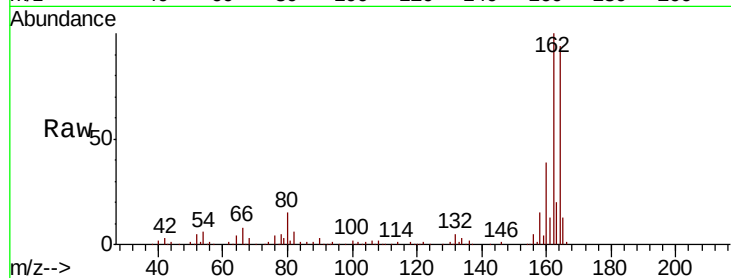
Tgt Ion:165 Resp: 23970

Ion Ratio Lower Upper

165 100

63 0.9 53.6 80.4#

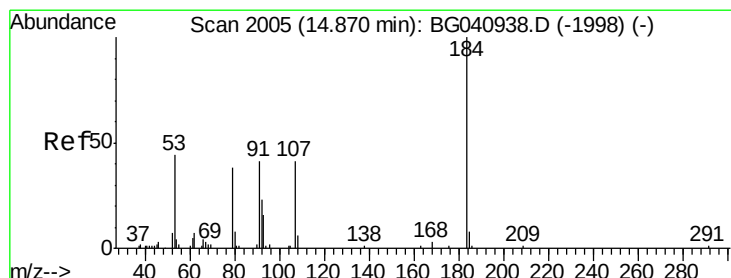
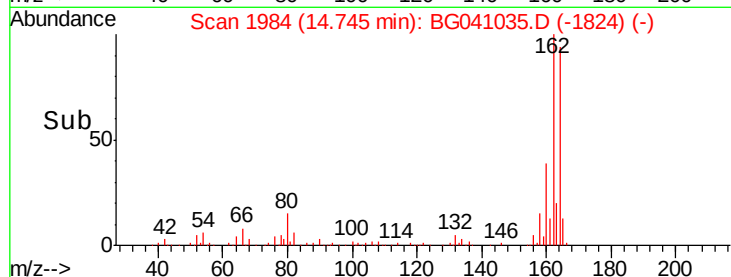
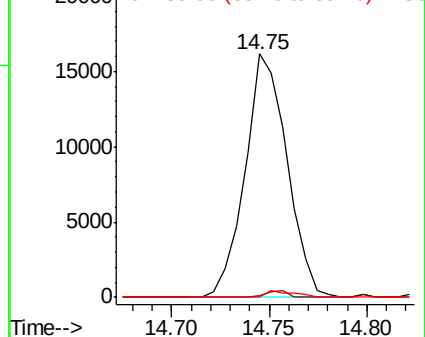
89 0.0 50.4 75.6#



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



#54

2,4-Dinitrophenol

Concen: 8.307 ng

RT: 15.34 min Scan# 2086

Delta R.T. 0.47 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

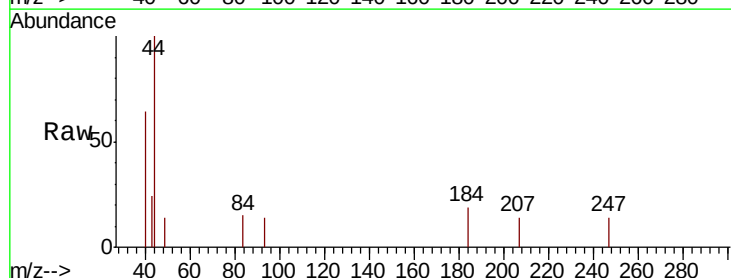
Tgt Ion:184 Resp: 78

Ion Ratio Lower Upper

184 100

63 0.0 49.8 74.6#

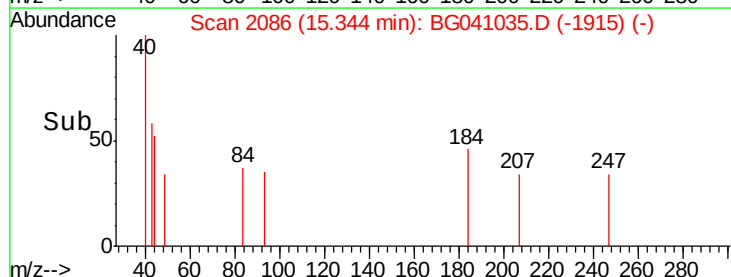
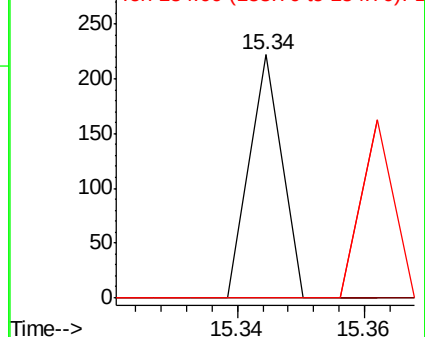
154 0.0 52.2 78.4#



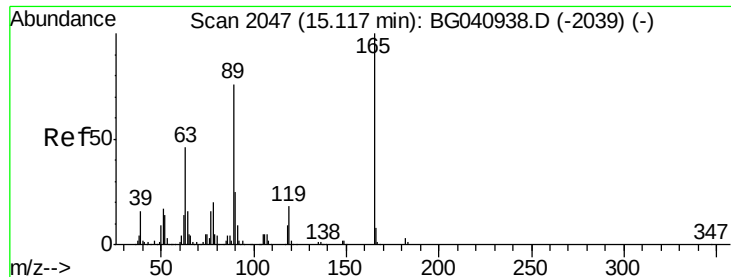
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 154.00 (153.70 to 154.70): E



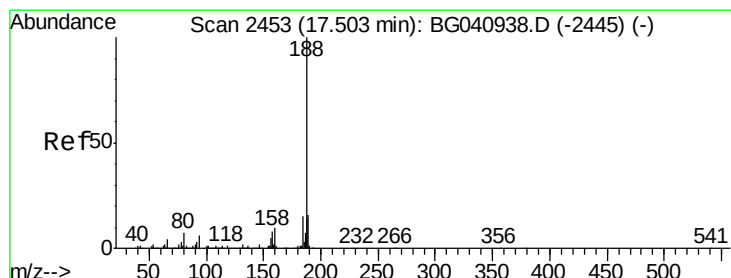
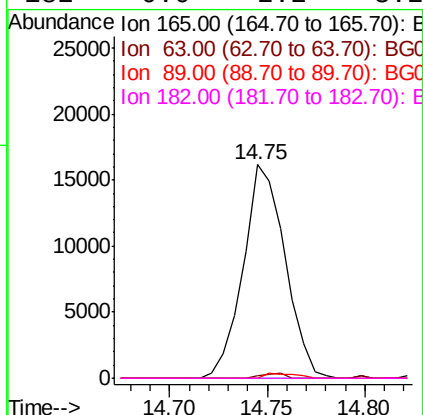
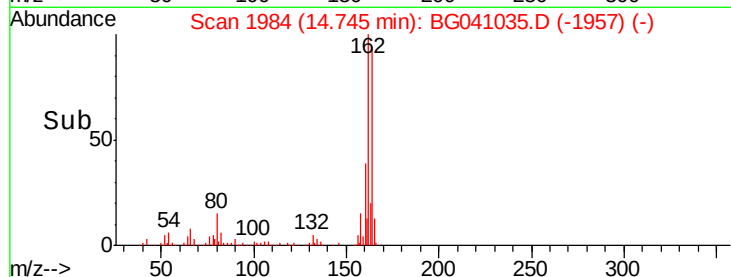
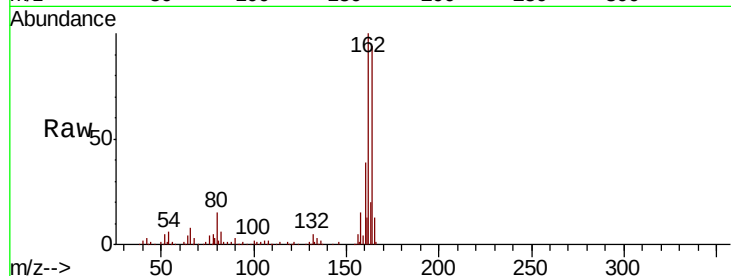




#57  
 2,4-Dinitrotoluene  
 Concen: 5.060 ng  
 RT: 14.75 min Scan# 1984  
 Delta R.T. -0.37 min  
 Lab File: BG041035.D  
 Acq: 3 Jun 2019 15:37

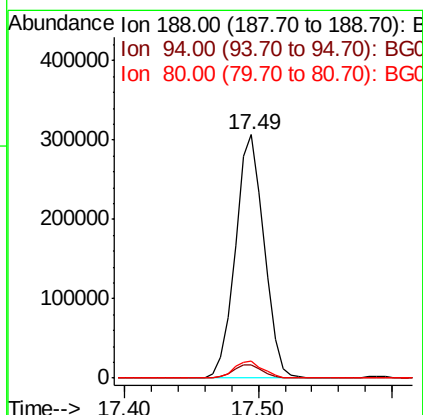
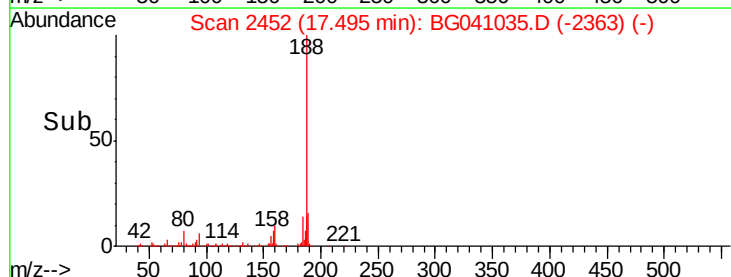
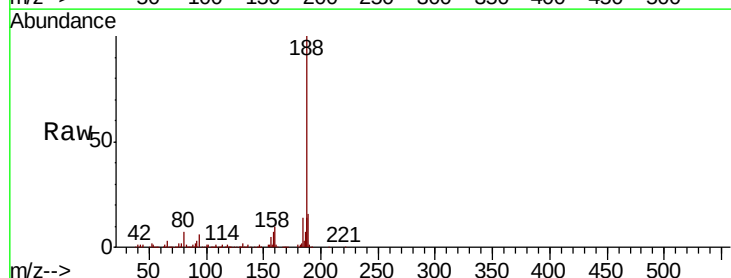
Instrument :  
 BNA\_G  
 ClientSampleId :  
 0445-FIELD-BLANK-2

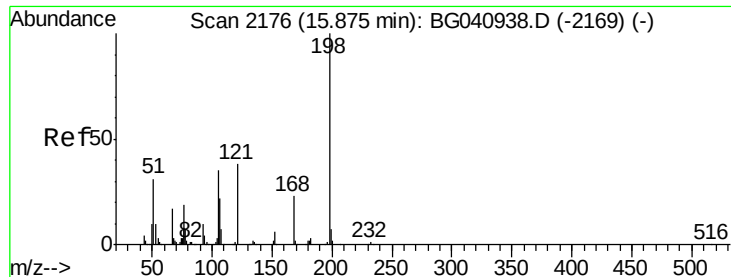
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.9   | 37.3  | 55.9# |
| 89      | 0.0   | 61.0  | 91.6# |
| 182     | 0.0   | 2.2   | 3.2#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.49 min Scan# 2452  
 Delta R.T. -0.01 min  
 Lab File: BG041035.D  
 Acq: 3 Jun 2019 15:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.6   | 4.7   | 7.1   |
| 80      | 7.1   | 5.8   | 8.8   |





#65

4,6-Dinitro-2-methylphenol

Concen: 8.986 ng

RT: 16.23 min Scan# 2237

Delta R.T. 0.36 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

Instrument :

BNA\_G

ClientSampleId :

0445-FIELD-BLANK-2

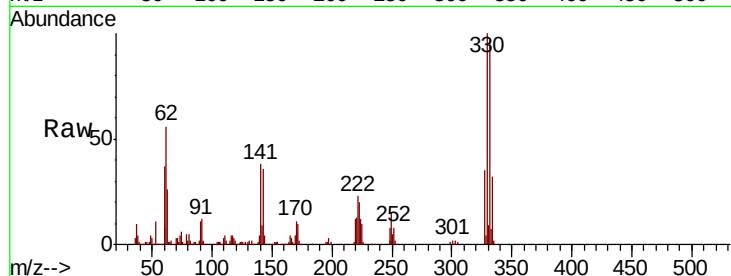
Tgt Ion:198 Resp: 1176

Ion Ratio Lower Upper

198 100

51 96.9 21.6 61.6#

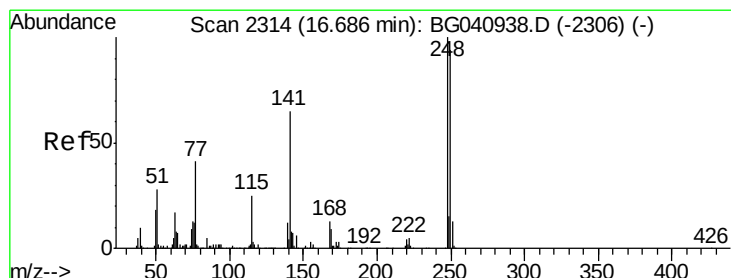
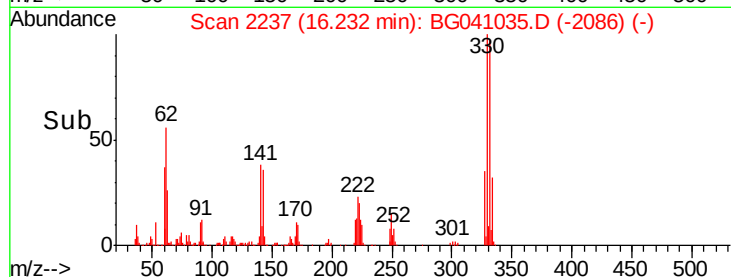
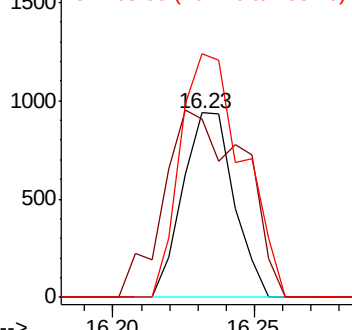
105 132.1 17.5 57.5#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG041035.D (-2169) (-)

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 4.376 ng

RT: 16.23 min Scan# 2237

Delta R.T. -0.45 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

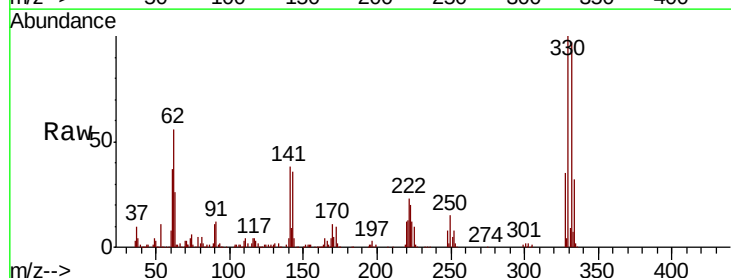
Tgt Ion:248 Resp: 26873

Ion Ratio Lower Upper

248 100

250 147.0 75.0 112.4#

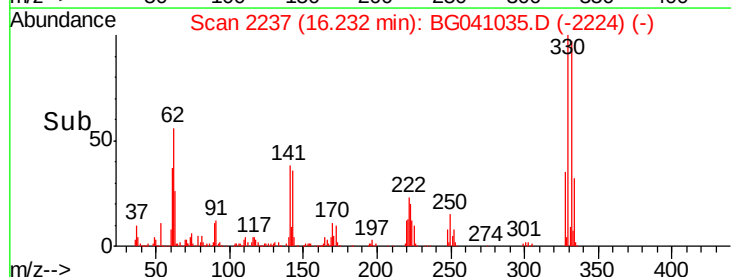
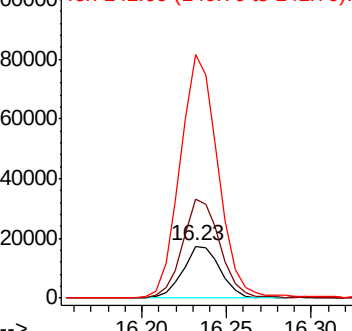
141 362.8 52.4 78.6#

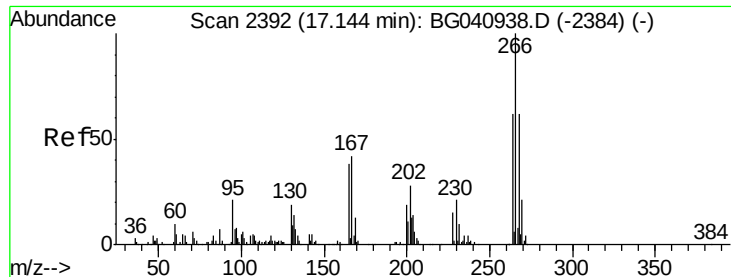


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Pentachlorophenol

Concen: 4.271 ng

RT: 17.44 min Scan# 2443

Delta R.T. 0.30 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

Instrument :

BNA\_G

ClientSampleId :

0445-FIELD-BLANK-2

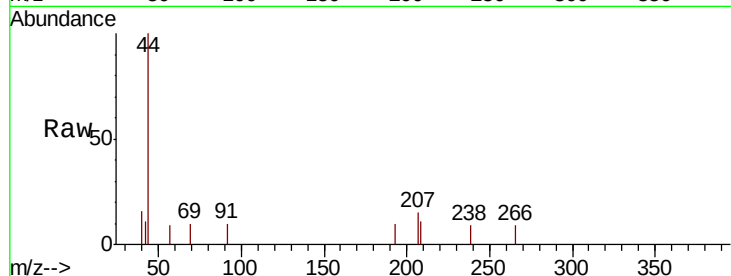
Tgt Ion:266 Resp: 54

Ion Ratio Lower Upper

266 100

268 0.0 53.1 79.7#

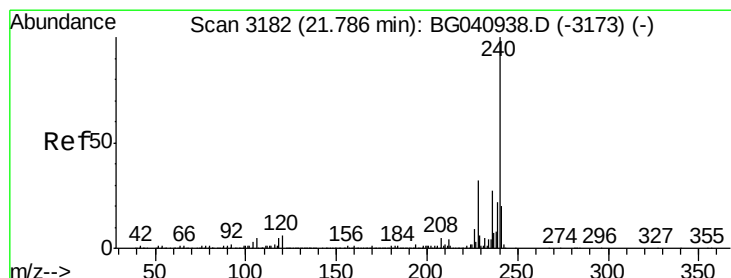
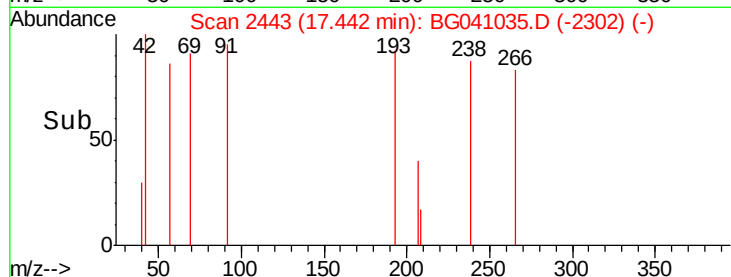
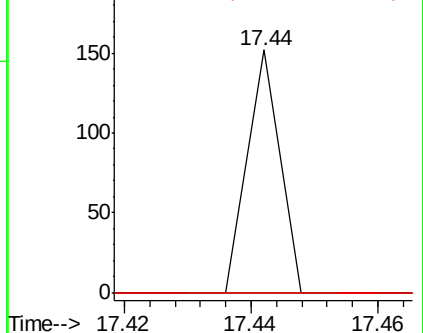
264 0.0 49.9 74.9#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.77 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

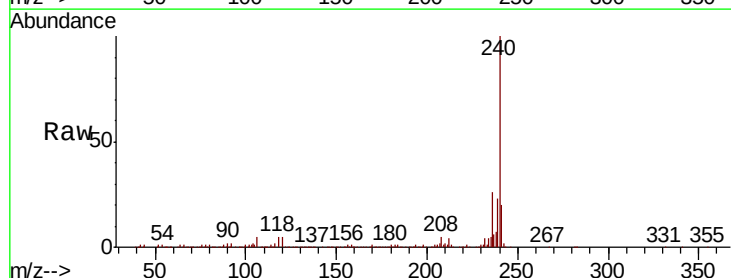
Tgt Ion:240 Resp: 467206

Ion Ratio Lower Upper

240 100

120 4.8 4.5 6.7

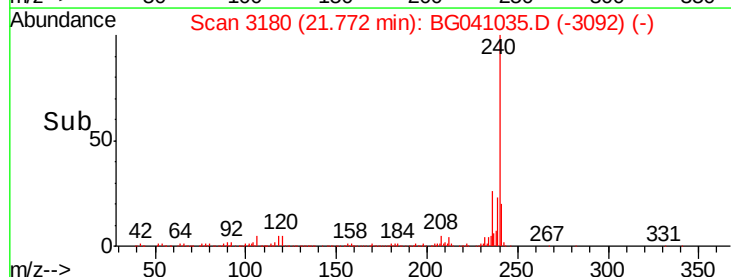
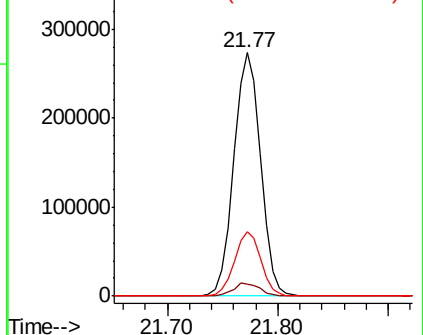
236 26.4 21.3 31.9

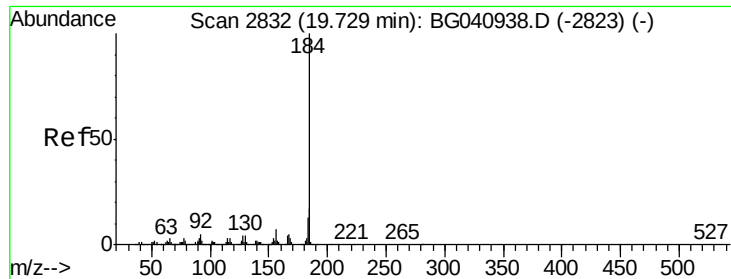


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 3.134 ng

RT: 20.09 min Scan# 2894

Delta R.T. 0.36 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

Instrument :

BNA\_G

ClientSampleId :

0445-FIELD-BLANK-2

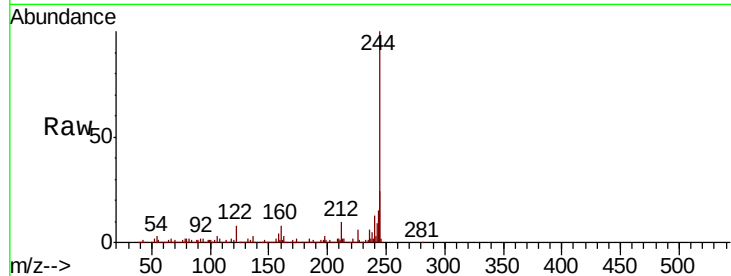
Tgt Ion:184 Resp: 34934

Ion Ratio Lower Upper

184 100

185 13.8 13.3 19.9

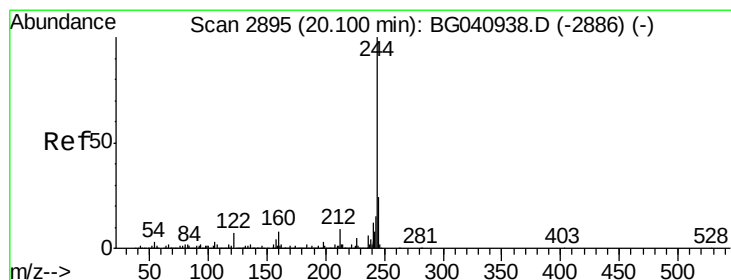
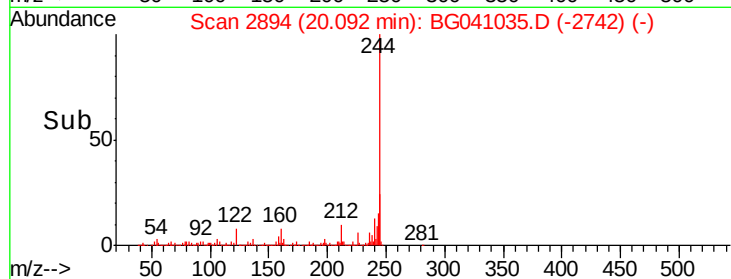
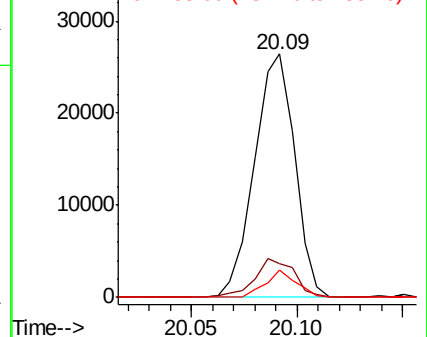
183 11.4 10.7 16.1



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: 88.148 ng

RT: 20.09 min Scan# 2894

Delta R.T. -0.01 min

Lab File: BG041035.D

Acq: 3 Jun 2019 15:37

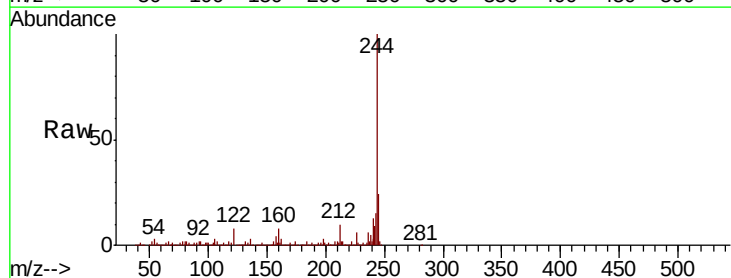
Tgt Ion:244 Resp: 1940457

Ion Ratio Lower Upper

244 100

212 9.5 7.0 10.4

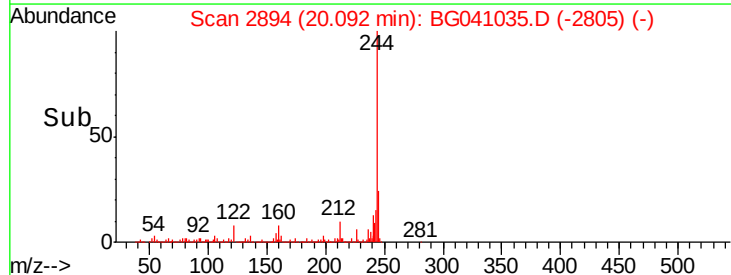
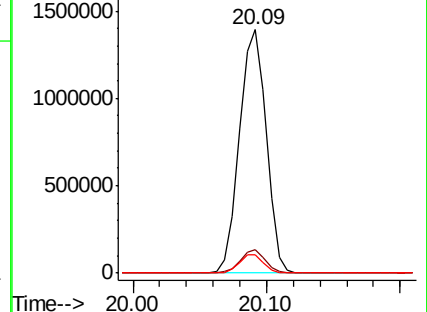
122 7.7 5.4 8.0

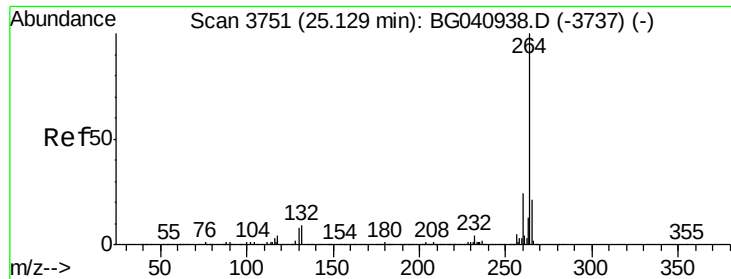


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.11 min Scan# 3748  
Delta R.T. -0.02 min  
Lab File: BG041035.D  
Acq: 3 Jun 2019 15:37

Instrument :  
BNA\_G  
ClientSampleId :  
0445-FIELD-BLANK-2

Tgt Ion: 264 Resp: 490641  
Ion Ratio Lower Upper  
264 100  
260 25.3 19.0 28.4  
265 20.8 17.0 25.4

