

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG102819\  
 Data File : BG043357.D  
 Acq On : 28 Oct 2019 19:35  
 Operator : JU  
 Sample : PB124310BL  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Oct 29 13:18:35 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 21 16:37:43 2019  
 Response via : Initial Calibration

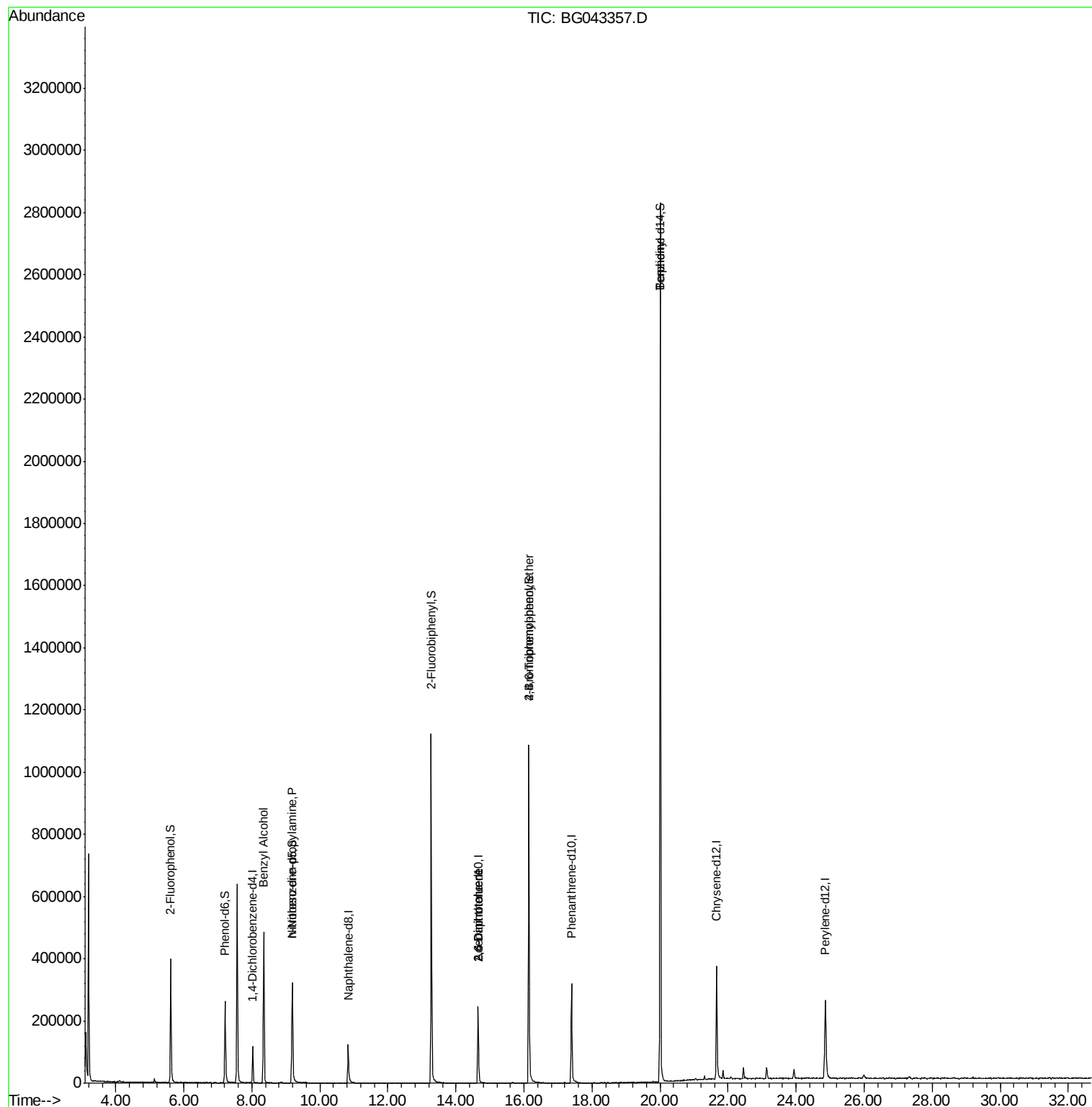
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 37120    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.83 | 136  | 123601   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.65 | 164  | 101378   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.40 | 188  | 248129   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.66 | 240  | 274358   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.86 | 264  | 318045   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 195581   | 96.55  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 182785   | 62.72  | ng    | 0.01     |
| 23) Nitrobenzene-d5            | 9.18  | 82   | 234056   | 97.63  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.14 | 330  | 266852   | 138.32 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.27 | 172  | 665730   | 90.74  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.01 | 244  | 1464469  | 100.14 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.34  | 79   | 4271     | 2.087  | ng    | # 65     |
| 19) n-Nitroso-di-n-propylamine | 9.18  | 70   | 33057    | 17.553 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.65 | 165  | 13239    | 7.761  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.65 | 165  | 13238    | 5.430  | ng    | # 24     |
| 67) 4-Bromophenyl-phenylether  | 16.14 | 248  | 17602    | 5.271  | ng    | # 1      |
| 77) Benzidine                  | 20.01 | 184  | 22231    | 4.026  | ng    | # 94     |

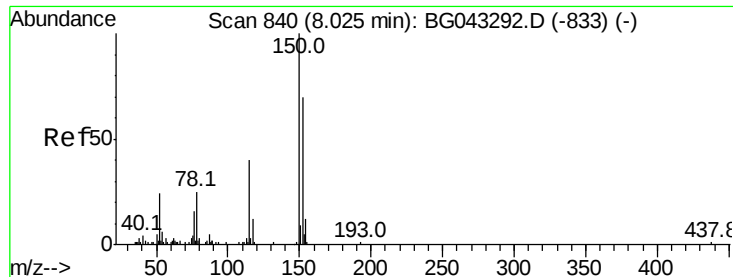
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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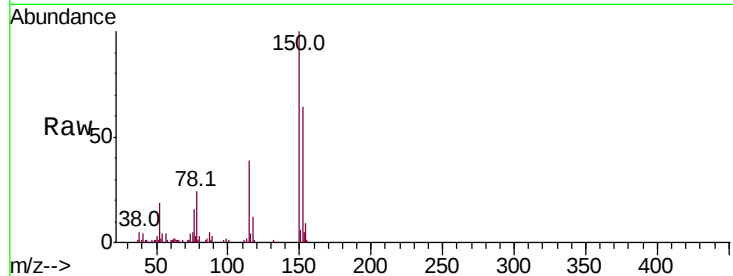


#1

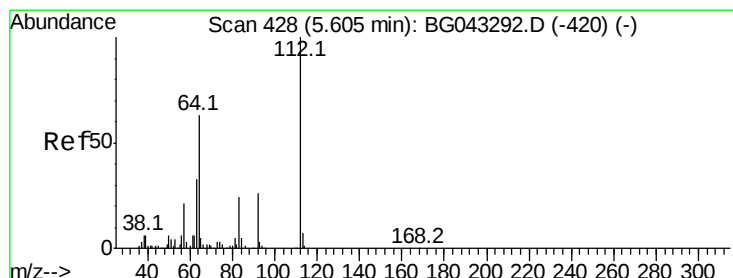
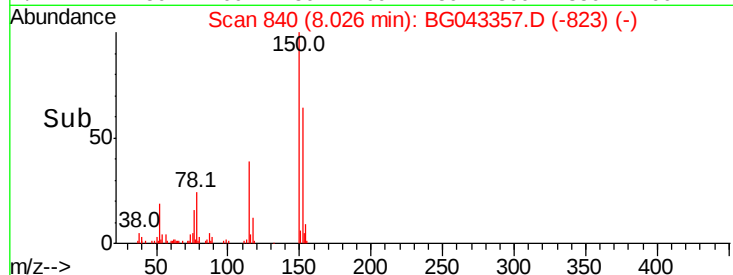
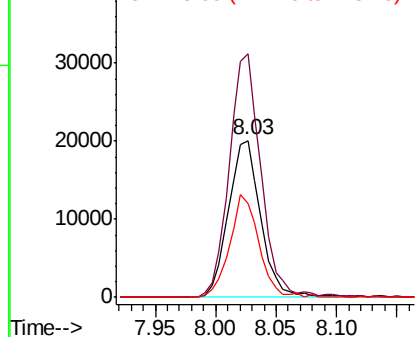
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 840  
Delta R.T. 0.00 min  
Lab File: BG043357.D  
Acq: 28 Oct 2019 19:35

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 37120  
Ion Ratio Lower Upper  
152 100  
150 155.2 113.6 170.4  
115 59.8 45.9 68.9



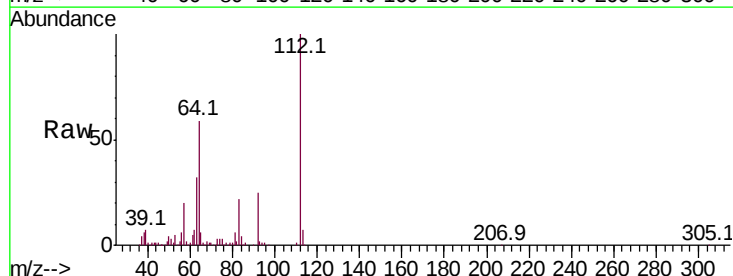
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



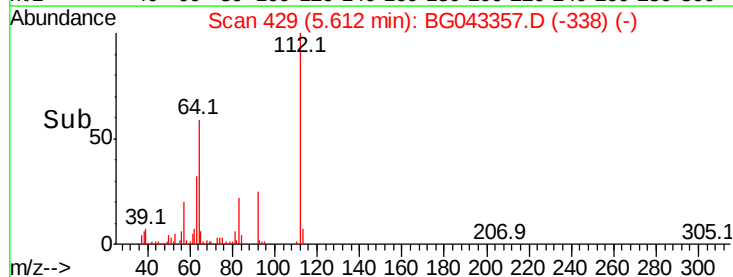
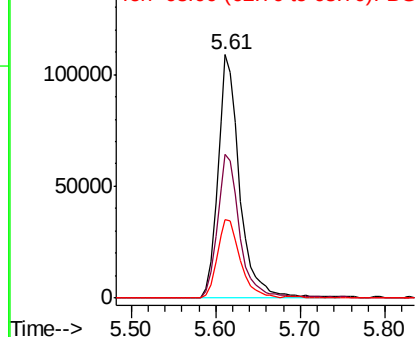
#5

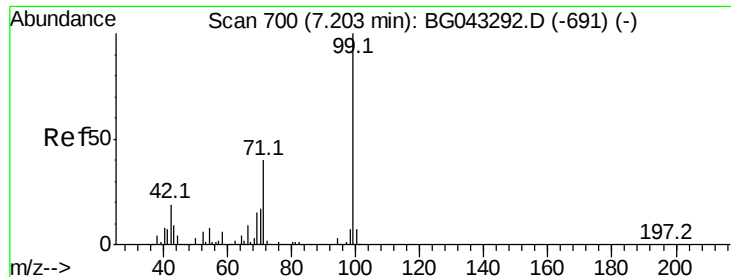
2-Fluorophenol  
Concen: 96.550 ng  
RT: 5.61 min Scan# 428  
Delta R.T. 0.01 min  
Lab File: BG043357.D  
Acq: 28 Oct 2019 19:35

Tgt Ion:112 Resp: 195581  
Ion Ratio Lower Upper  
112 100  
64 58.9 50.2 75.2  
63 32.2 26.7 40.1



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: 62.715 ng

RT: 7.22 min Scan# 702

Delta R.T. 0.01 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

Instrument :

BNA\_G

ClientSampleId :

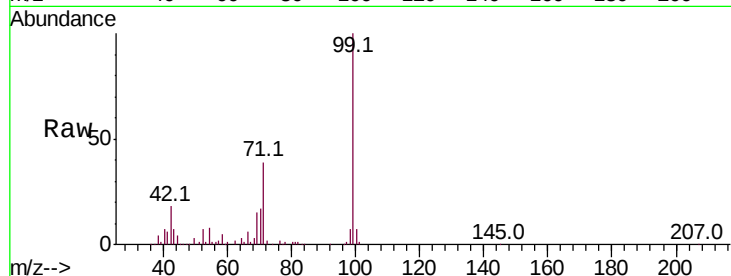
Tot Ion: 99 Resp: 182785

Ion Ratio Lower Upper

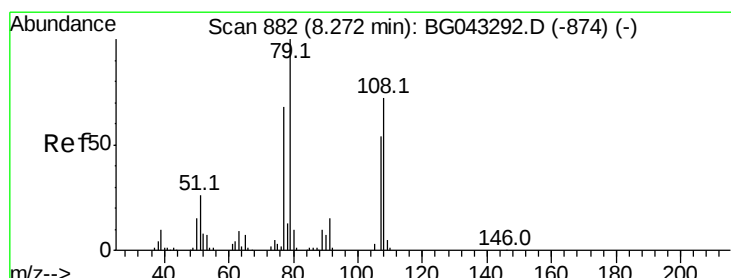
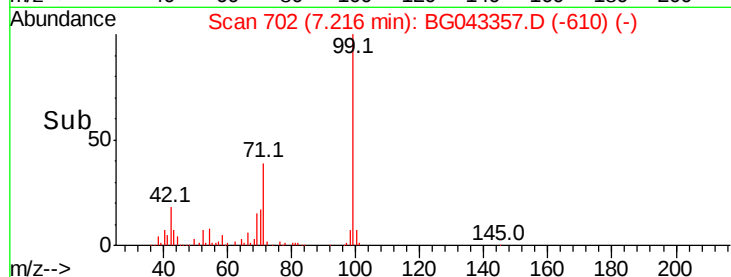
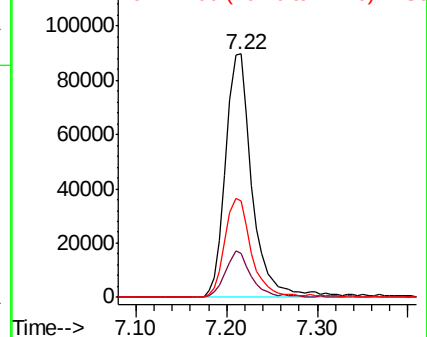
99 100

42 17.9 14.9 22.3

71 39.4 32.2 48.2



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



#15

Benzyl Alcohol

Concen: 2.087 ng

RT: 8.34 min Scan# 894

Delta R.T. 0.07 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

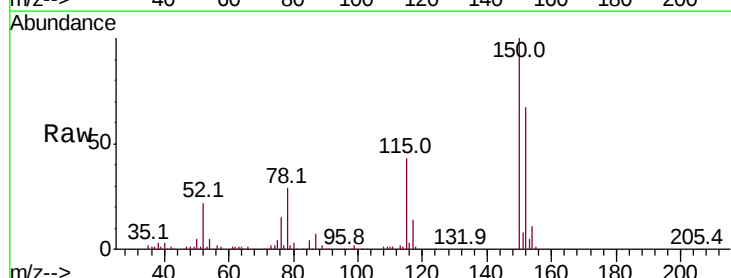
Tgt Ion: 79 Resp: 4271

Ion Ratio Lower Upper

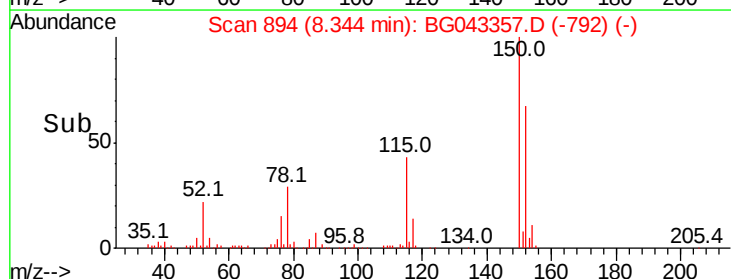
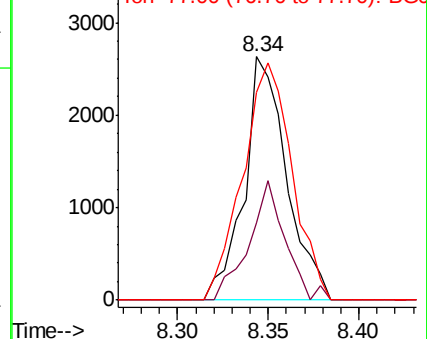
79 100

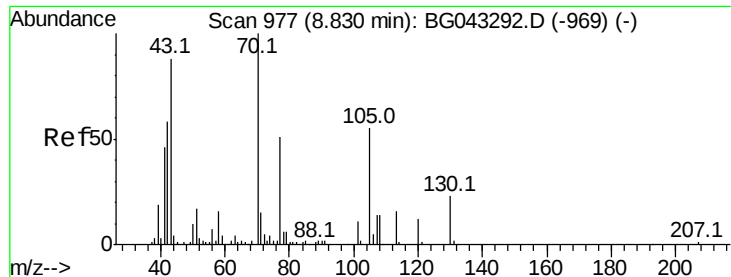
108 31.9 57.3 85.9#

77 85.4 54.6 81.8#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 17.553 ng

RT: 9.18 min Scan# 1037

Delta R.T. 0.35 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 33057

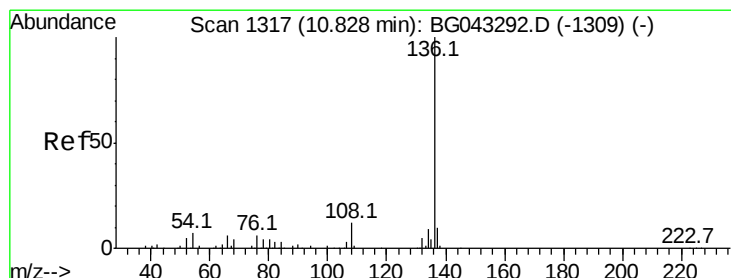
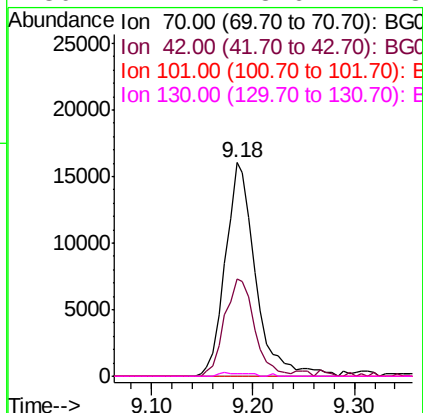
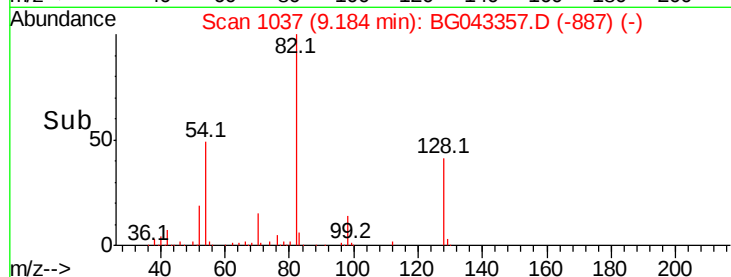
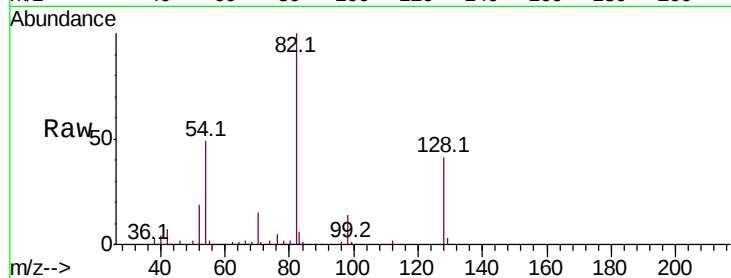
Ion Ratio Lower Upper

70 100

42 45.7 46.2 69.2#

101 0.0 8.6 13.0#

130 1.2 18.6 27.8#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.83 min Scan# 1317

Delta R.T. 0.00 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

Tgt Ion: 136 Resp: 123601

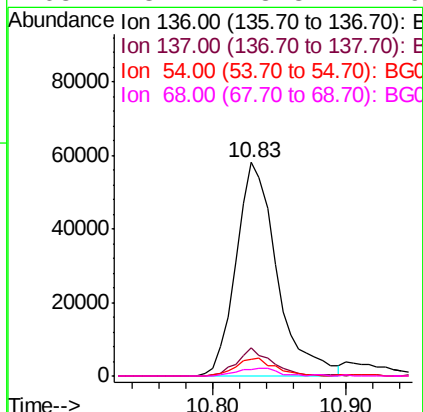
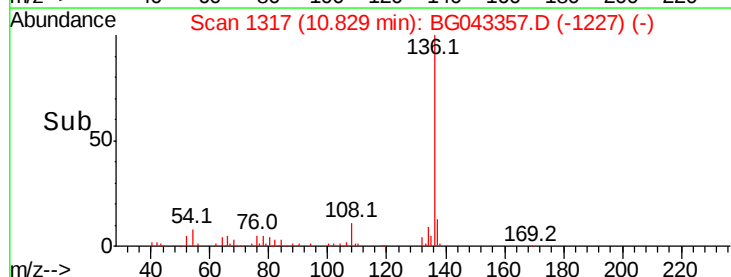
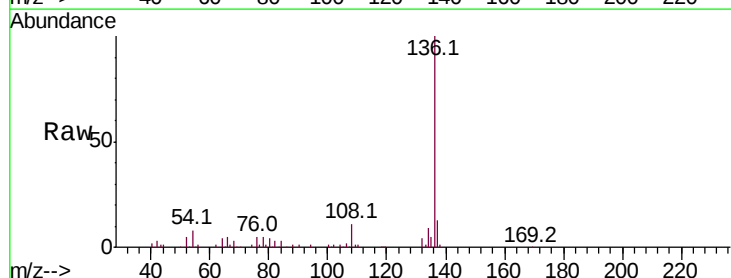
Ion Ratio Lower Upper

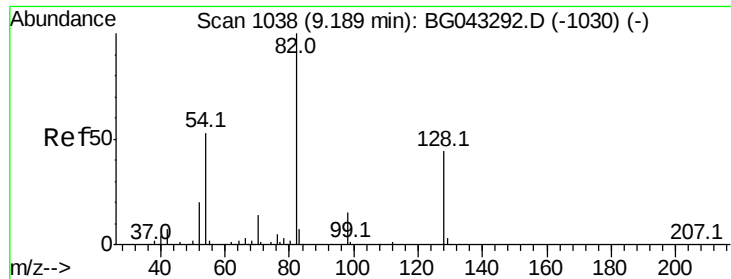
136 100

137 13.0 8.2 12.2#

54 8.0 5.4 8.2

68 3.1 3.3 4.9#

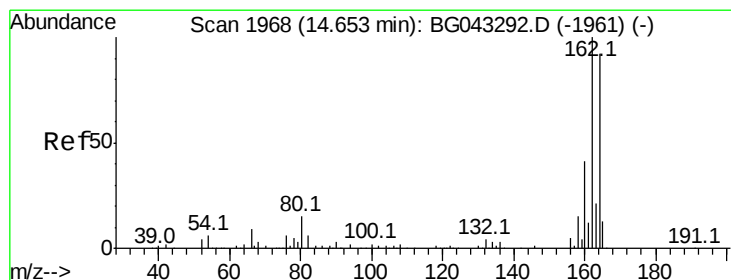
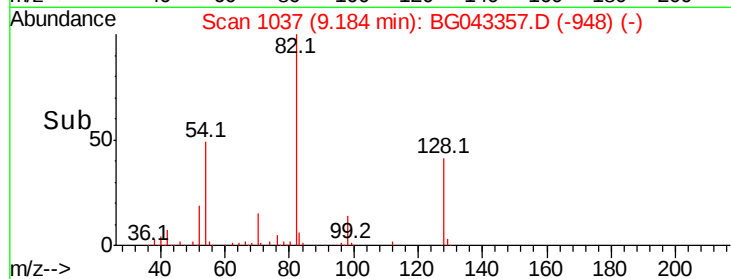
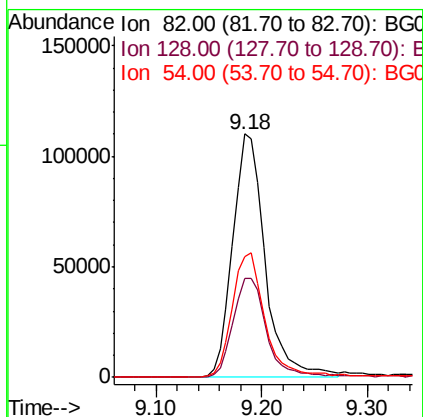
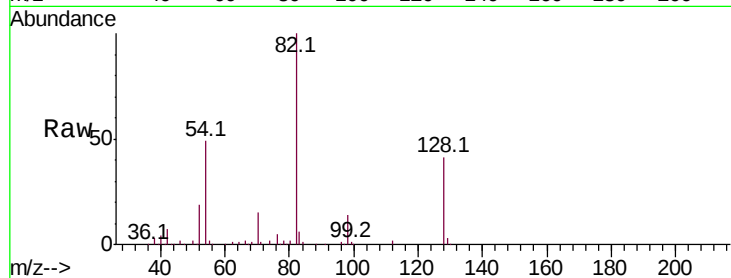




#23  
 Nitrobenzene-d5  
 Concen: 97.626 ng  
 RT: 9.18 min Scan# 1037  
 Delta R.T. -0.00 min  
 Lab File: BG043357.D  
 Acq: 28 Oct 2019 19:35

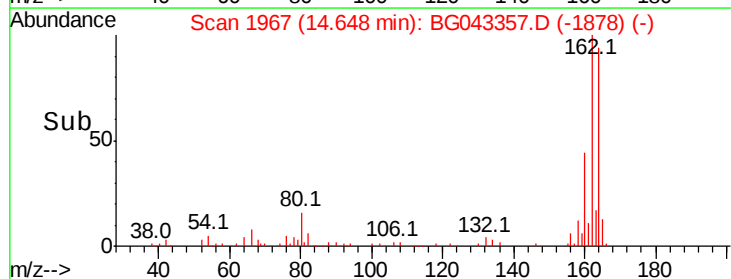
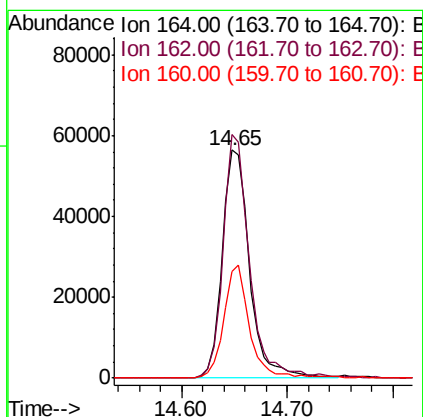
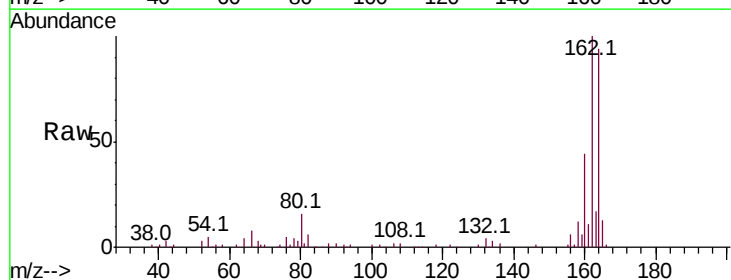
Instrument :  
 BNA\_G  
 ClientSampleId :

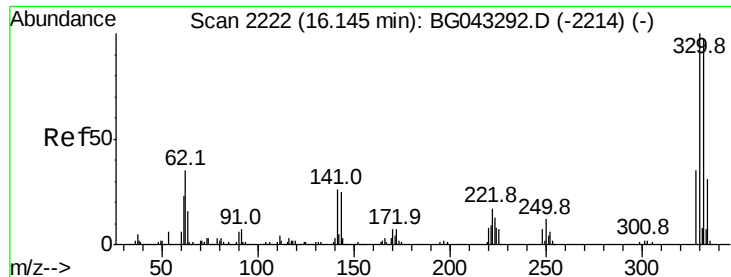
| Tot Ion | 82    | Resp  | 234056 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 40.8  | 35.3  | 52.9   |
| 54      | 49.4  | 42.3  | 63.5   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.65 min Scan# 1967  
 Delta R.T. -0.00 min  
 Lab File: BG043357.D  
 Acq: 28 Oct 2019 19:35

| Tgt Ion | 164   | Resp  | 101378 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 162     | 106.8 | 87.0  | 130.4  |
| 160     | 46.5  | 35.5  | 53.3   |

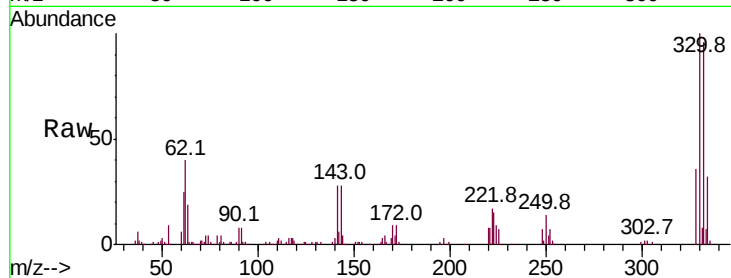




#42  
 2,4,6-Tribromophenol  
 Concen: 138.321 ng  
 RT: 16.14 min Scan# 2221  
 Delta R.T. -0.00 min  
 Lab File: BG043357.D  
 Acq: 28 Oct 2019 19:35

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 76.4  | 114.6 |
| 141     | 28.5  | 21.4  | 32.0  |

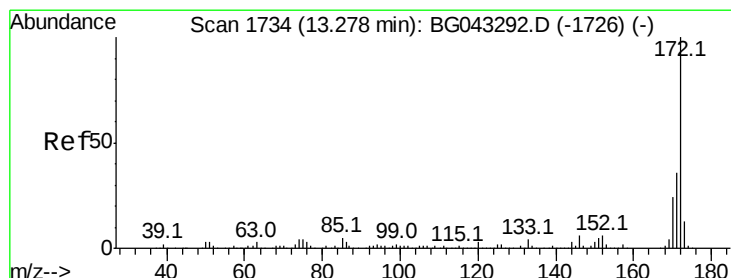
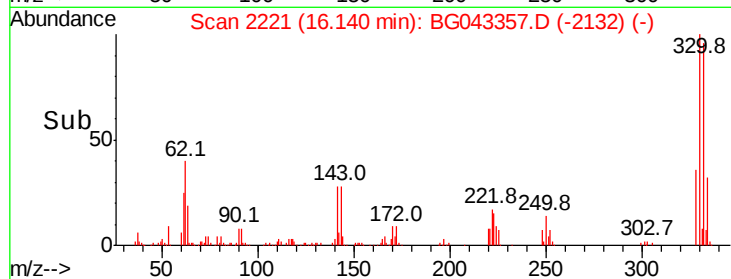
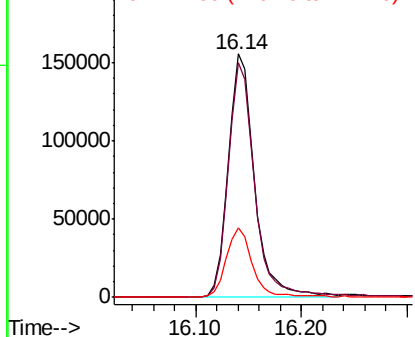


Abundance

Ion 329.80 (329.50 to 330.50): E

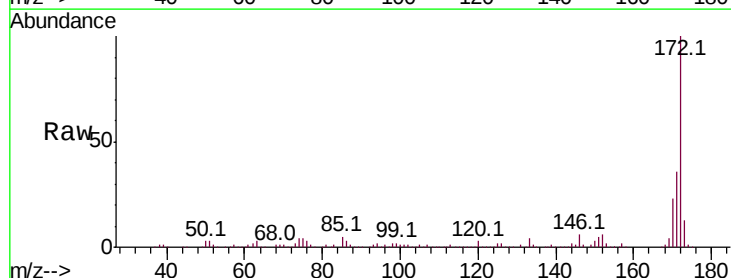
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 90.740 ng  
 RT: 13.27 min Scan# 1733  
 Delta R.T. -0.00 min  
 Lab File: BG043357.D  
 Acq: 28 Oct 2019 19:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 28.5  | 42.7  |
| 170     | 23.4  | 18.8  | 28.2  |

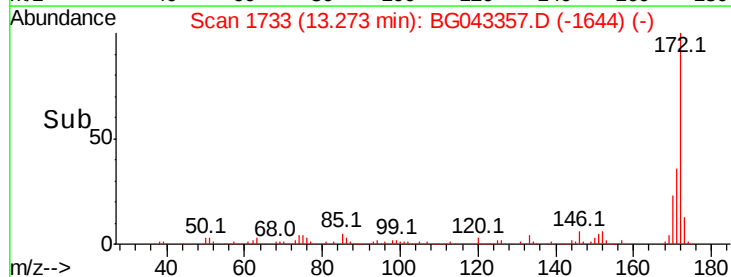
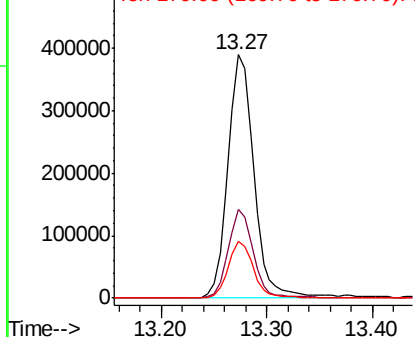


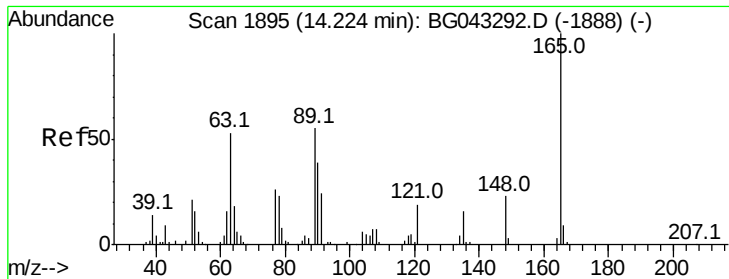
Abundance

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

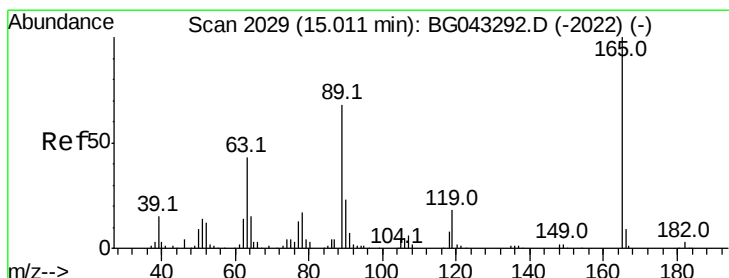
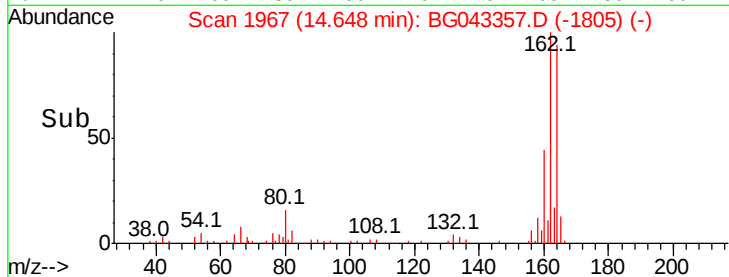
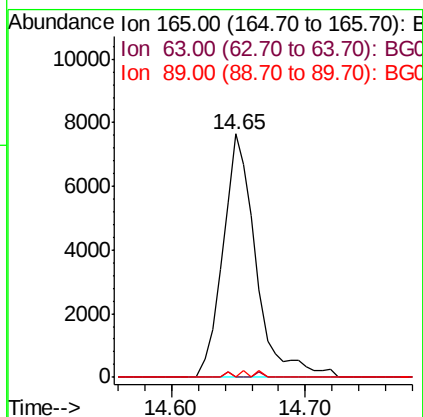
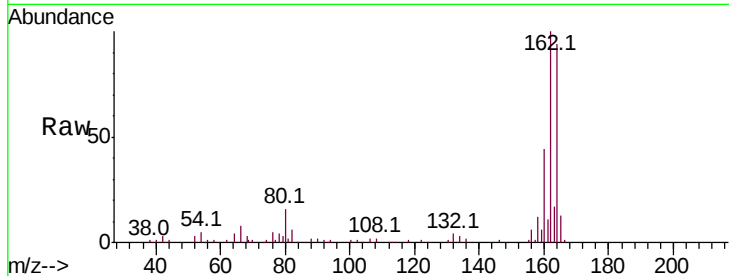




#51  
 2,6-Dinitrotoluene  
 Concen: 7.761 ng  
 RT: 14.65 min Scan# 1967  
 Delta R.T. 0.42 min  
 Lab File: BG043357.D  
 Acq: 28 Oct 2019 19:35

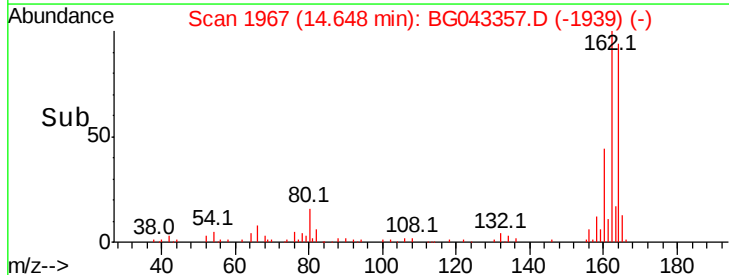
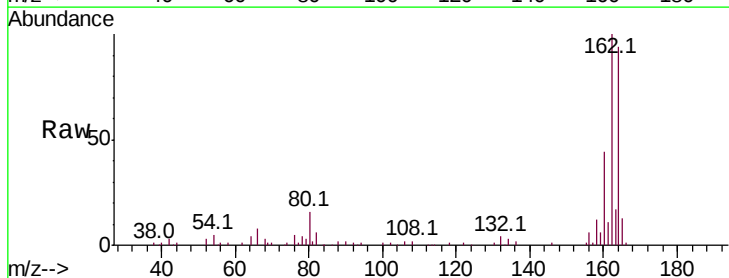
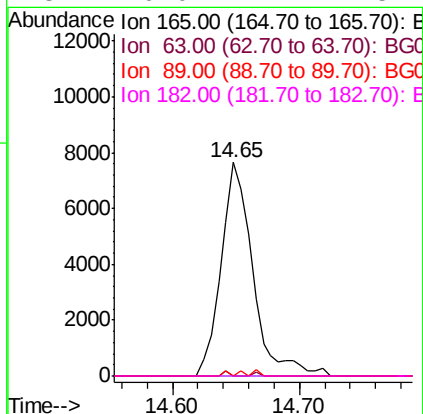
Instrument :  
 BNA\_G  
 ClientSampleId :

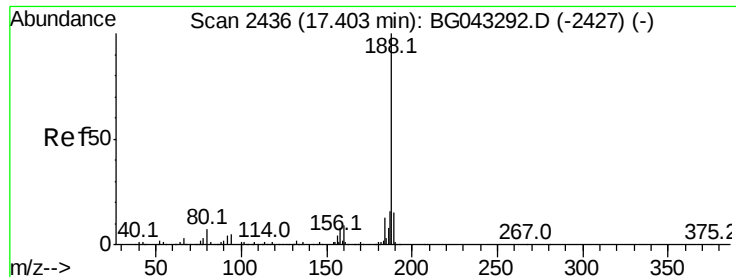
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 47.1  | 70.7# |
| 89      | 0.0   | 43.7  | 65.5# |



#57  
 2,4-Dinitrotoluene  
 Concen: 5.430 ng  
 RT: 14.65 min Scan# 1967  
 Delta R.T. -0.36 min  
 Lab File: BG043357.D  
 Acq: 28 Oct 2019 19:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 35.0  | 52.6# |
| 89      | 0.0   | 54.1  | 81.1# |
| 182     | 0.0   | 2.2   | 3.2#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.40 min Scan# 2435

Delta R.T. -0.00 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

Instrument :

BNA\_G

ClientSampleId :

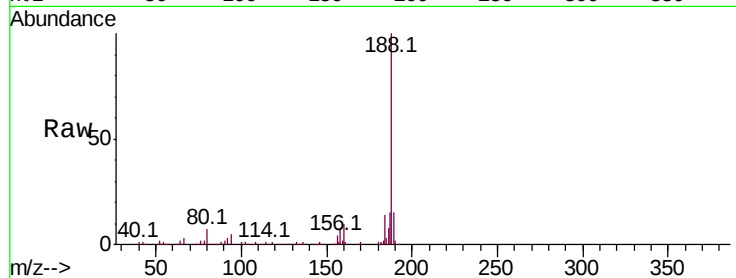
Tot Ion:188 Resp: 248129

Ion Ratio Lower Upper

188 100

94 5.4 4.2 6.2

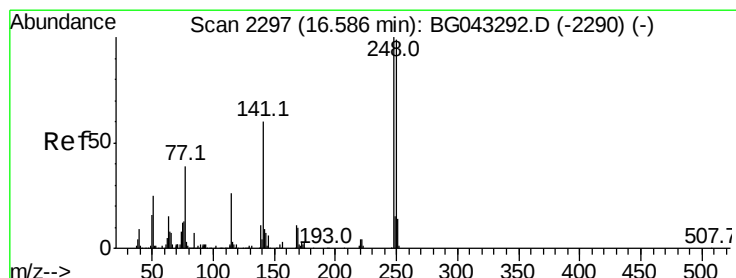
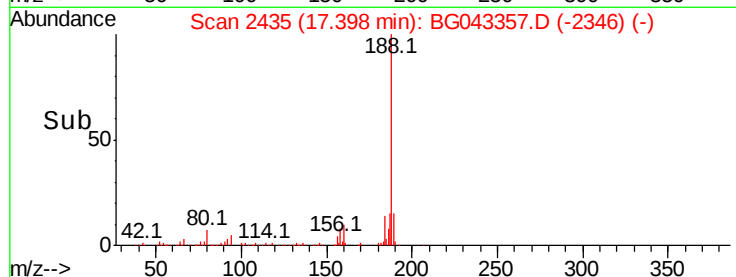
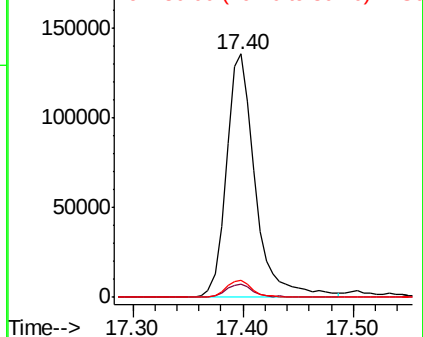
80 6.8 5.2 7.8



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



#67

4-Bromophenyl-phenylether

Concen: 5.271 ng

RT: 16.14 min Scan# 2221

Delta R.T. -0.45 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

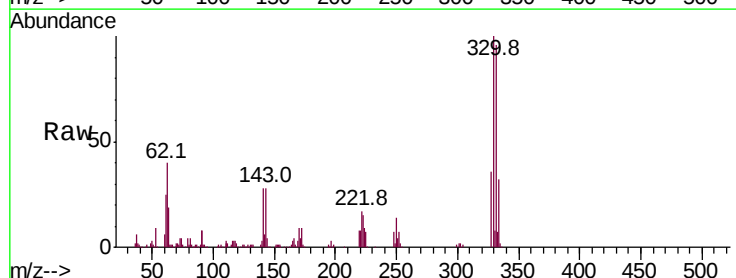
Tgt Ion:248 Resp: 17602

Ion Ratio Lower Upper

248 100

250 206.2 79.3 118.9#

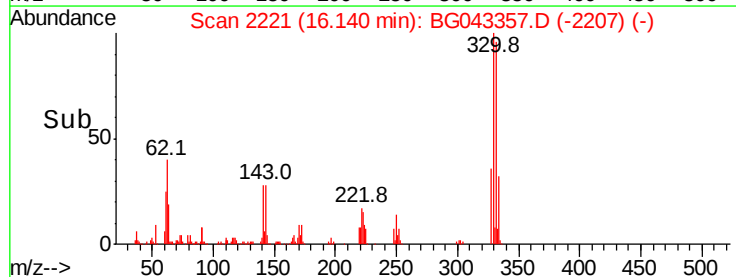
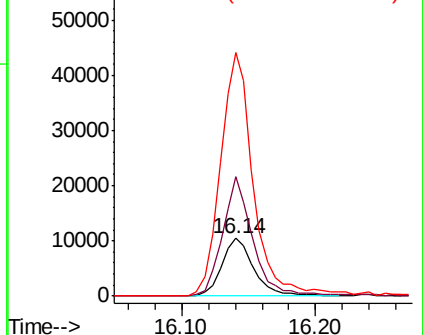
141 421.6 47.9 71.9#

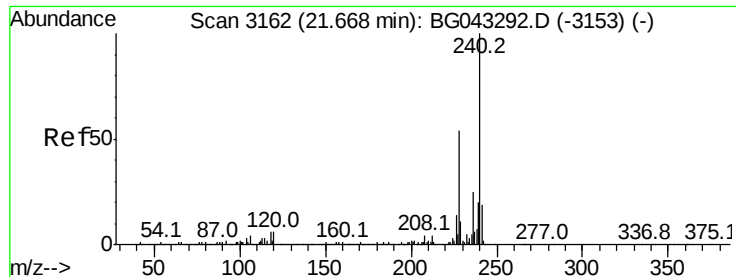


Abundance Ion 248.00 (247.70 to 248.70): E

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: 21.66 min Scan# 3161

Delta R.T. -0.00 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

Instrument :

BNA\_G

ClientSampleId :

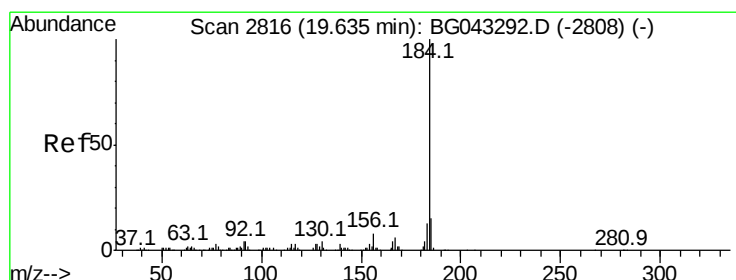
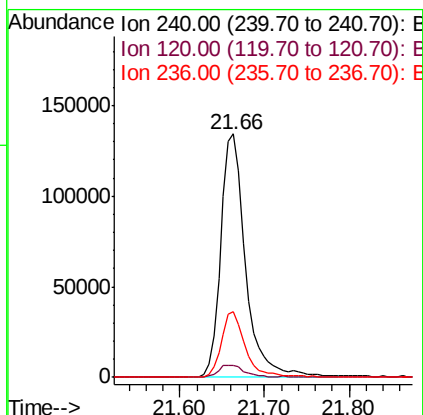
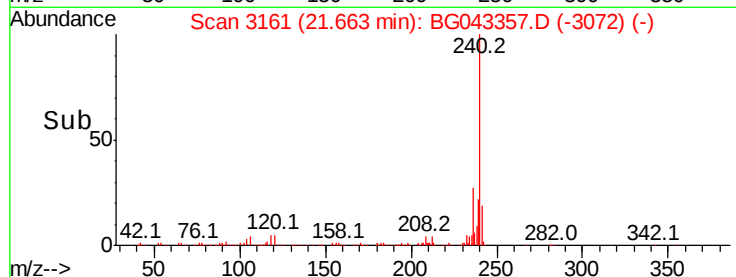
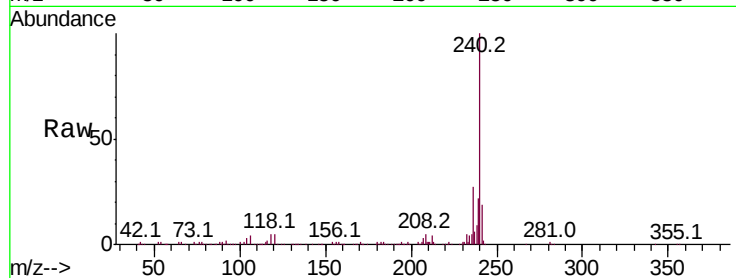
Tot Ion:240 Resp: 274358

Ion Ratio Lower Upper

240 100

120 5.1 4.6 7.0

236 27.2 20.2 30.4



#77

Benzidine

Concen: 4.026 ng

RT: 20.01 min Scan# 2879

Delta R.T. 0.37 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

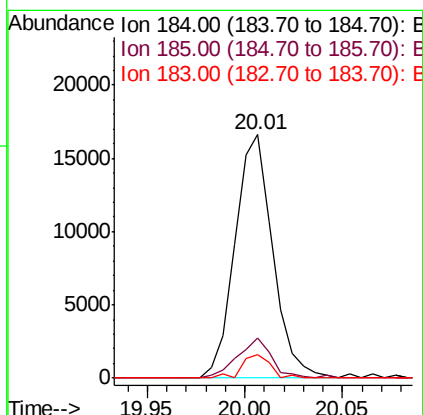
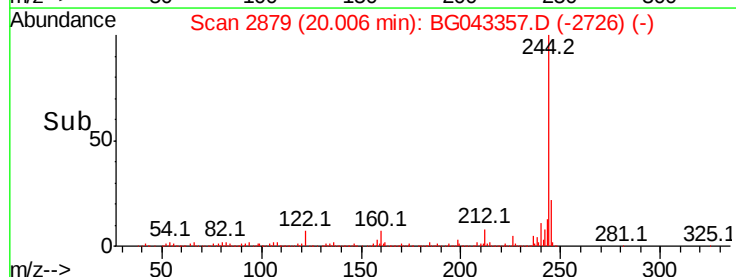
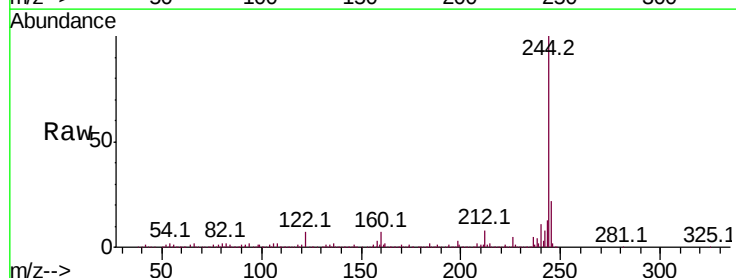
Tgt Ion:184 Resp: 22231

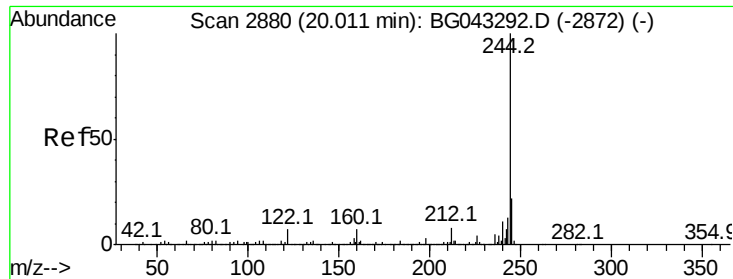
Ion Ratio Lower Upper

184 100

185 16.2 11.8 17.6

183 9.9 10.6 16.0#





#79

Terphenyl-d14

Concen: 100.140 ng

RT: 20.01 min Scan# 2879

Delta R.T. -0.00 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

Instrument :

BNA\_G

ClientSampled :

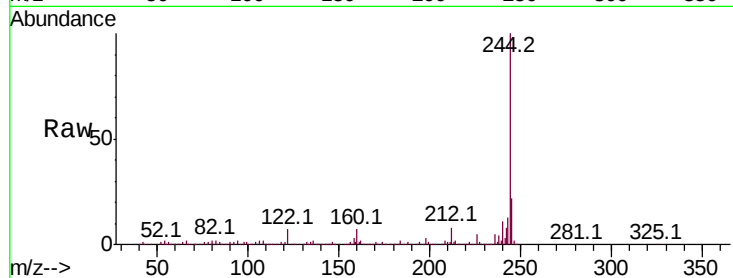
Tot Ion:244 Resp: 1464469

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.5   | 6.4   | 9.6   |
| 122 | 6.6   | 5.3   | 7.9   |

244 100

212 7.5 6.4 9.6

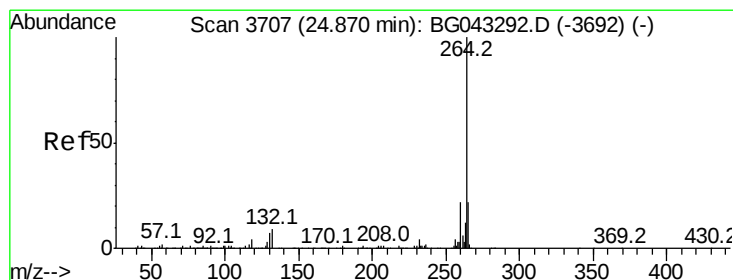
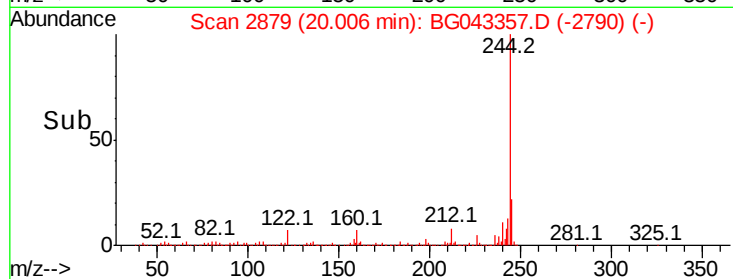
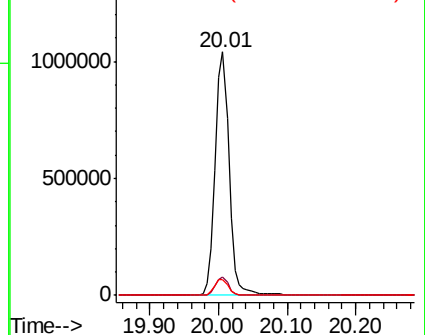
122 6.6 5.3 7.9



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: 24.86 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BG043357.D

Acq: 28 Oct 2019 19:35

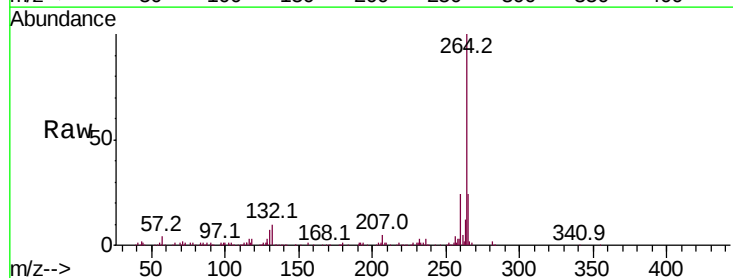
Tgt Ion:264 Resp: 318045

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.4  | 17.9  | 26.9  |
| 265 | 24.2  | 17.4  | 26.2  |

264 100

260 24.4 17.9 26.9

265 24.2 17.4 26.2



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

