

Data Path : U:\HPCHEM1\BNA G\DATA\BG012518\  
 Data File : BG032316.D  
 Acq On : 26 Jan 2018 6:01  
 Operator : SJ/JU  
 Sample : J1267-02  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 26 07:18:23 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG011218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 24 14:02:41 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.73  | 152  | 33351    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.60 | 136  | 134833   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.36 | 164  | 101606   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.09 | 188  | 291176   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.42 | 240  | 364674   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.11 | 264  | 395322   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.15  | 112  | 208229   | 114.19 | ng    | 0.00     |
| 7) Phenol-d6                | 7.84  | 99   | 235083   | 102.36 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.92  | 82   | 212026   | 106.39 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.84 | 330  | 254289   | 151.24 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.99 | 172  | 788625   | 96.24  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.63 | 244  | 1515547  | 91.76  | ng    | 0.00     |

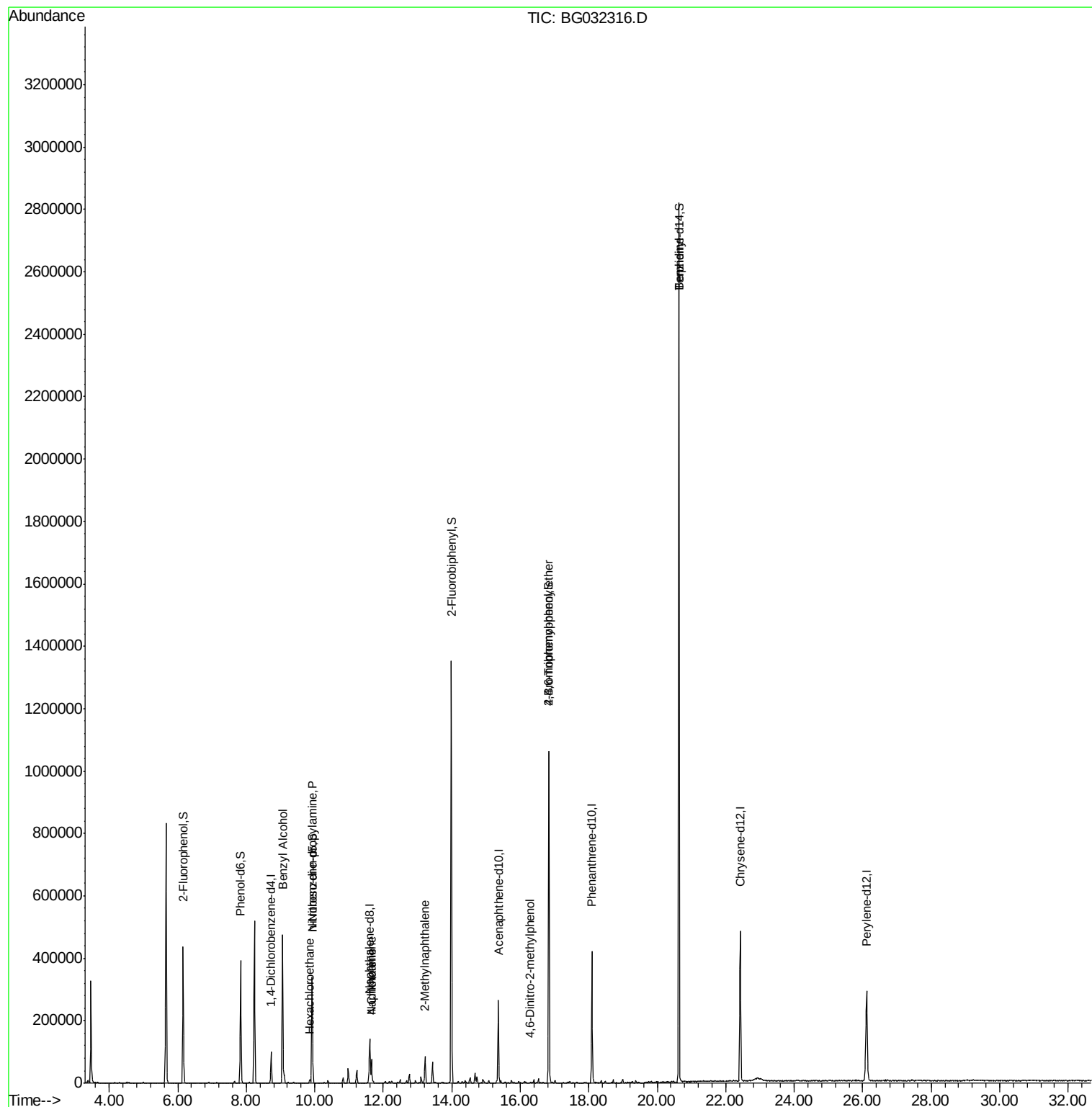
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 15) Benzyl Alcohol             | 9.06  | 79   | 3640     | 2.182  | ng    | # 50   |
| 18) Hexachloroethane           | 9.86  | 117  | 2395     | 2.898  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 9.92  | 70   | 30773    | 21.596 | ng    | # 78   |
| 31) Naphthalene                | 11.65 | 128  | 68792    | 10.299 | ng    | # 98   |
| 33) 4-Chloroaniline            | 11.66 | 127  | 9895     | 3.455  | ng    | # 39   |
| 37) 2-Methylnaphthalene        | 13.22 | 142  | 45921    | 8.660  | ng    | # 93   |
| 64) 4,6-Dinitro-2-methylphenol | 16.29 | 198  | 55       | 4.911  | ng    | # 29   |
| 66) 4-Bromophenyl-phenylether  | 16.84 | 248  | 20541    | 4.958  | ng    | # 1    |
| 76) Benzidine                  | 20.63 | 184  | 21993    | 2.412  | ng    | # 97   |

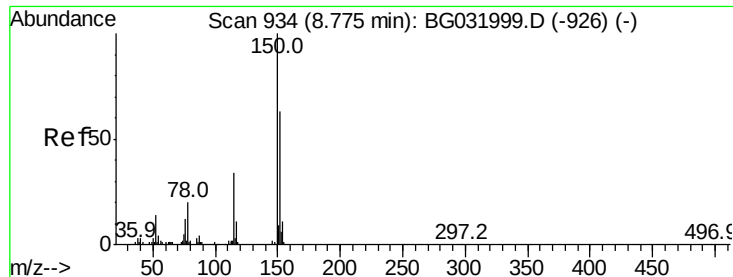
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Jan 26 07:18:23 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG011218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 24 14:02:41 2018  
Response via : Initial Calibration



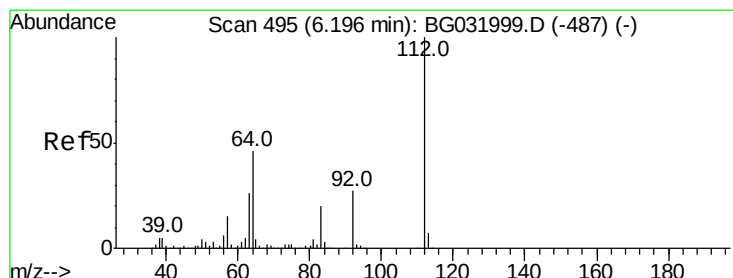
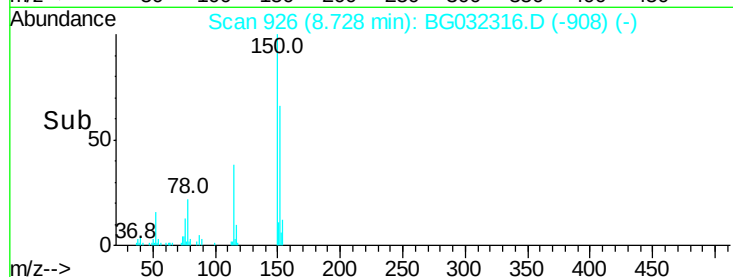
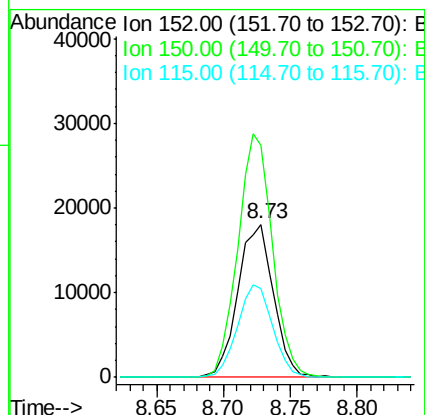
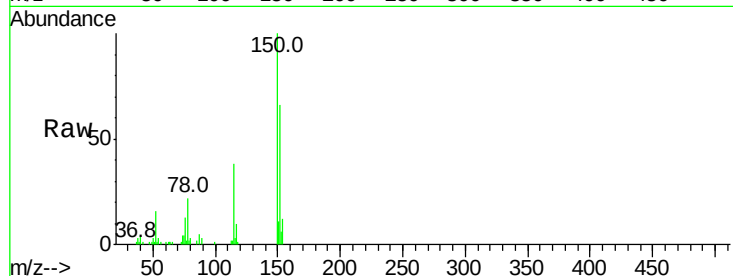


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.73 min Scan# 926  
Delta R.T. 0.01 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

Instrument :  
BNA\_G  
ClientSampled :

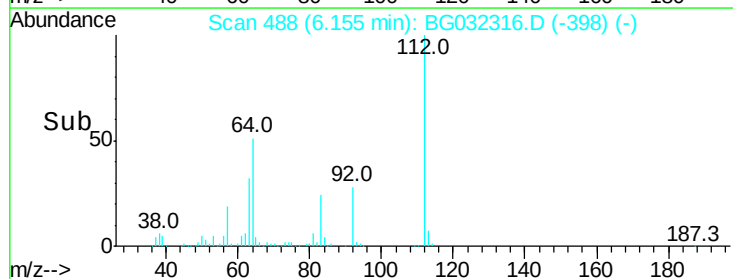
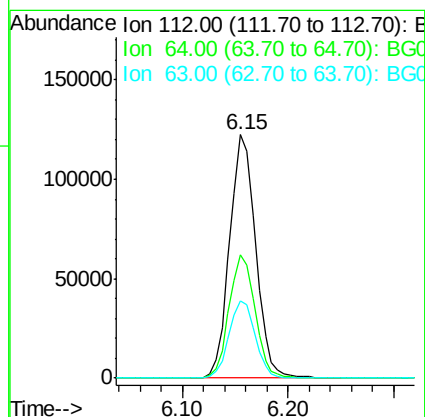
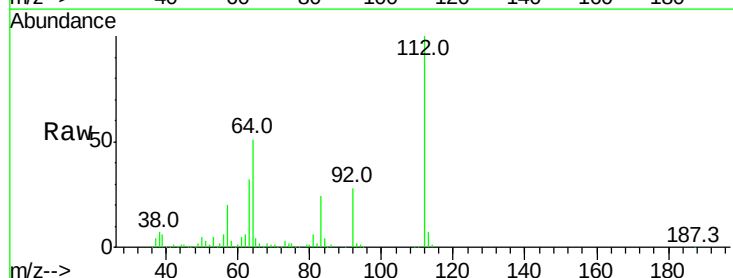
Tot Ion:152 Resp: 33351  
Ion Ratio Lower Upper  
152 100  
150 151.7 126.6 189.8  
115 58.0 53.0 79.4

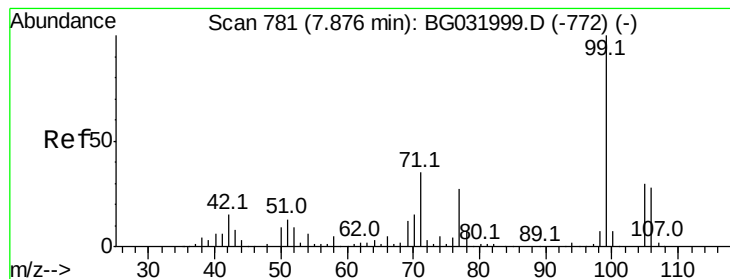


#5

2-Fluorophenol  
Concen: 114.191 ng  
RT: 6.15 min Scan# 488  
Delta R.T. -0.00 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

Tgt Ion:112 Resp: 208229  
Ion Ratio Lower Upper  
112 100  
64 50.9 56.3 84.5#  
63 31.7 30.1 45.1





#7

Phenol-d6

Concen: 102.361 ng

RT: 7.84 min Scan# 774

Delta R.T. -0.00 min

Lab File: BG032316.D

Acq: 26 Jan 2018 6:01

Instrument :

BNA\_G

ClientSampleId :

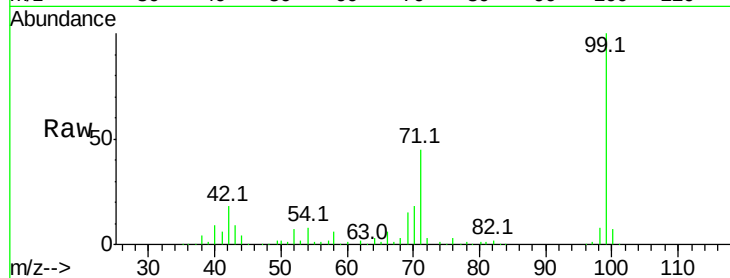
Tot Ion: 99 Resp: 235083

Ion Ratio Lower Upper

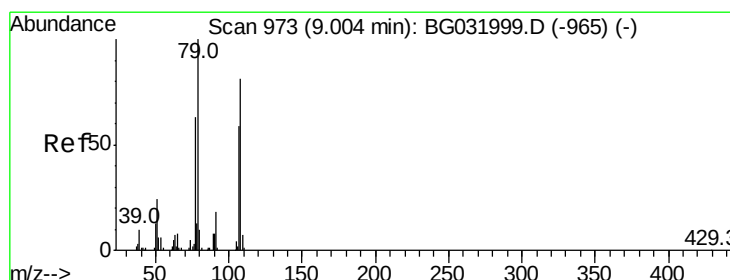
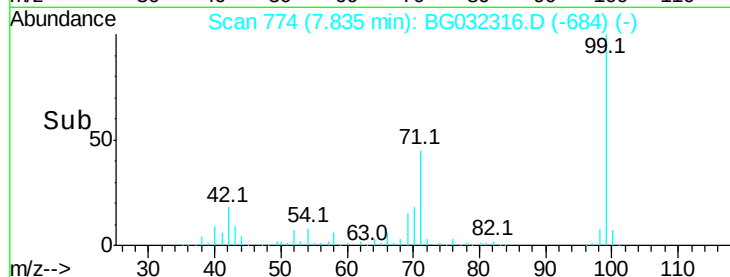
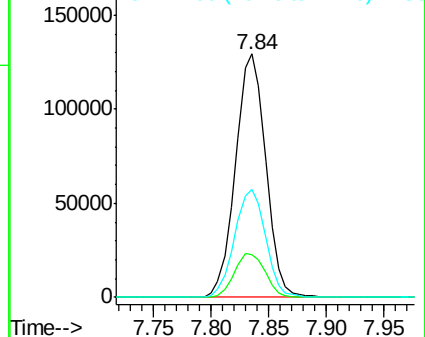
99 100

42 17.6 14.1 21.1

71 44.6 26.1 39.1#



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: 2.182 ng

RT: 9.06 min Scan# 982

Delta R.T. 0.09 min

Lab File: BG032316.D

Acq: 26 Jan 2018 6:01

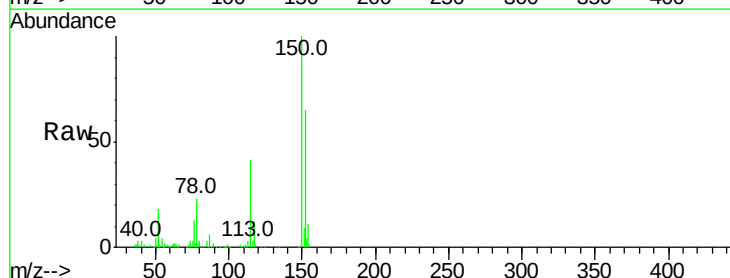
Tgt Ion: 79 Resp: 3640

Ion Ratio Lower Upper

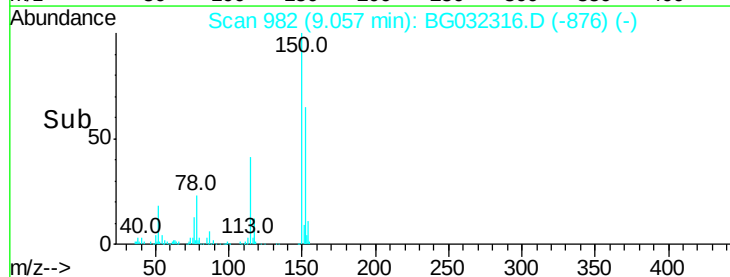
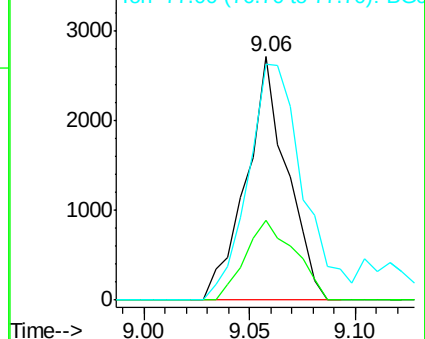
79 100

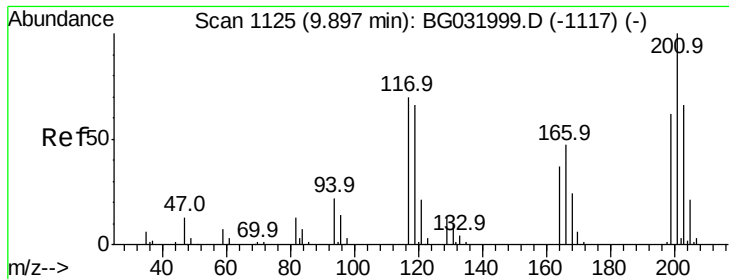
108 32.8 57.2 85.8#

77 96.9 46.1 69.1#



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

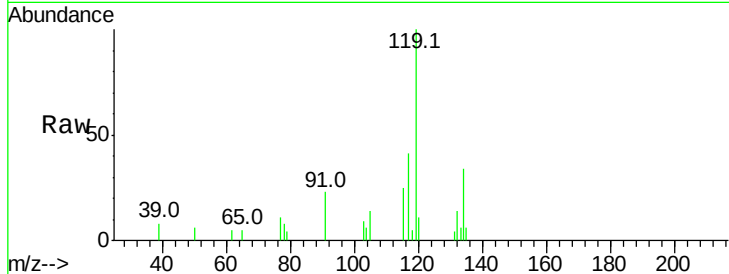




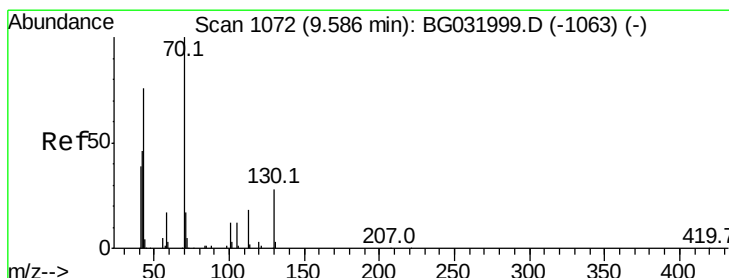
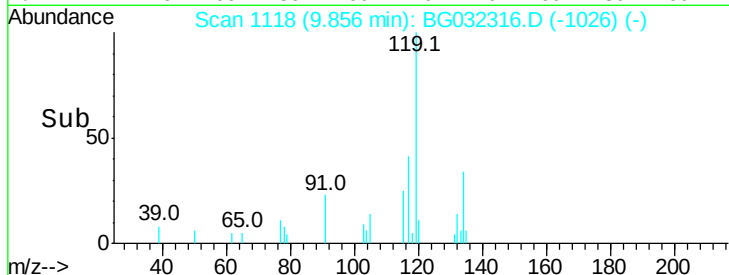
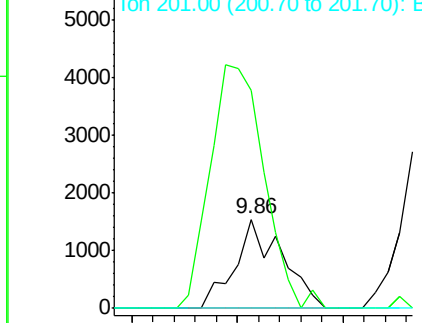
#18  
Hexachloroethane  
Concen: 2.898 ng  
RT: 9.86 min Scan# 1118  
Delta R.T. 0.01 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:117 Resp: 2395  
Ion Ratio Lower Upper  
117 100  
119 244.3 76.7 115.1#  
201 0.0 95.7 143.5#

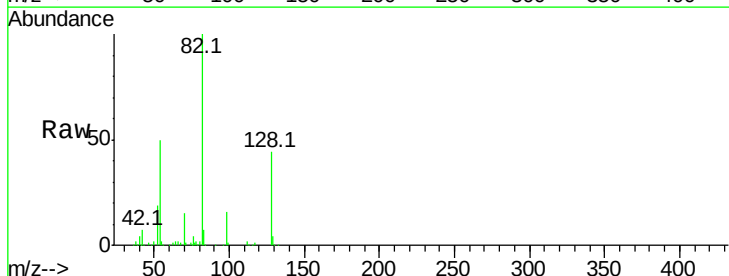


Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

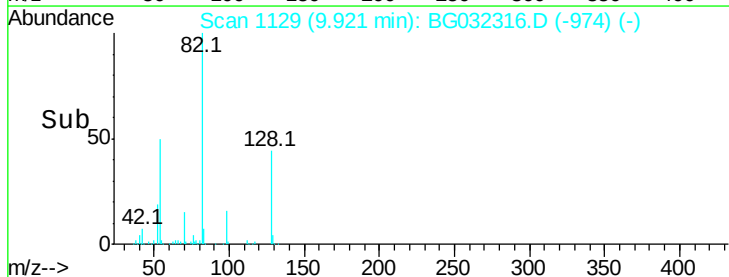
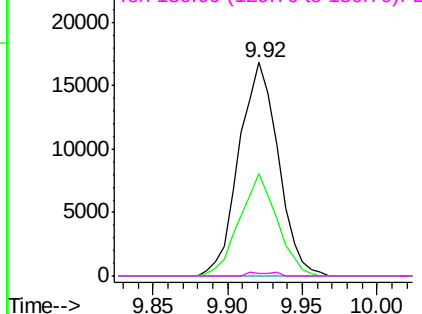


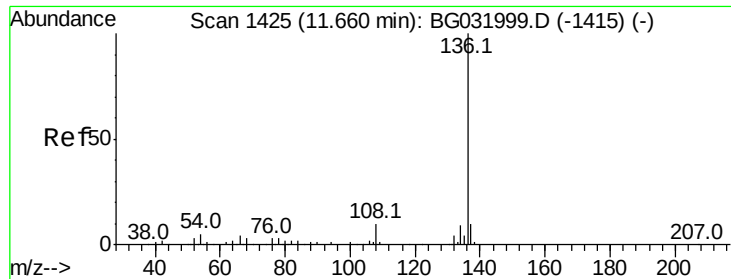
#19  
n-Nitroso-di-n-propylamine  
Concen: 21.596 ng  
RT: 9.92 min Scan# 1129  
Delta R.T. 0.38 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

Tgt Ion: 70 Resp: 30773  
Ion Ratio Lower Upper  
70 100  
42 47.9 49.1 73.7#  
101 0.0 8.5 12.7#  
130 1.3 13.4 20.0#



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

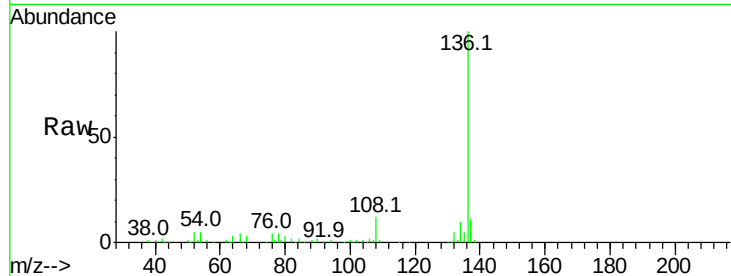




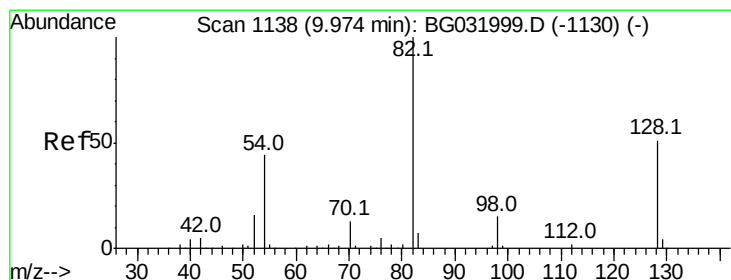
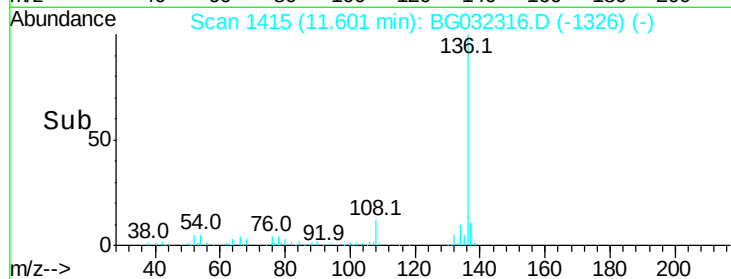
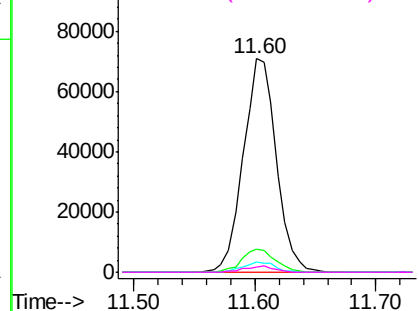
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.60 min Scan# 1415  
Delta R.T. -0.01 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 134833 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 9.2   | 13.8   |
| 54       | 4.9   | 10.3  | 15.5#  |
| 68       | 2.5   | 4.5   | 6.7#   |

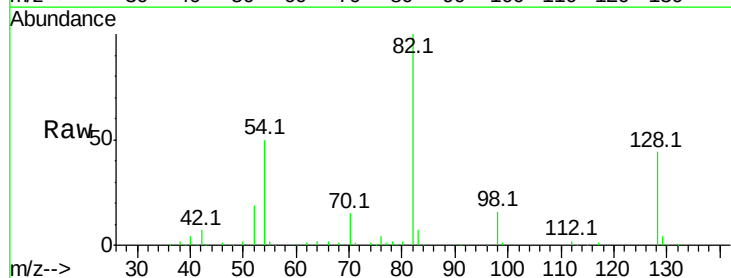


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

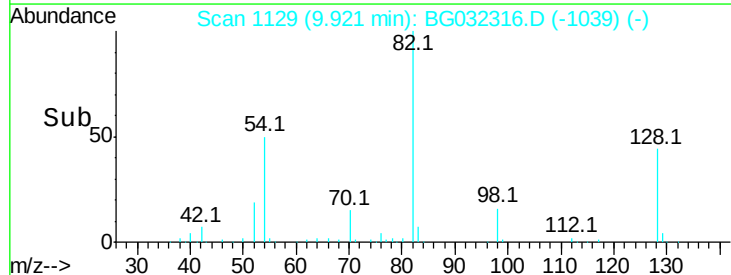
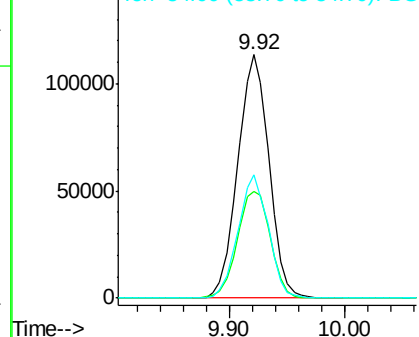


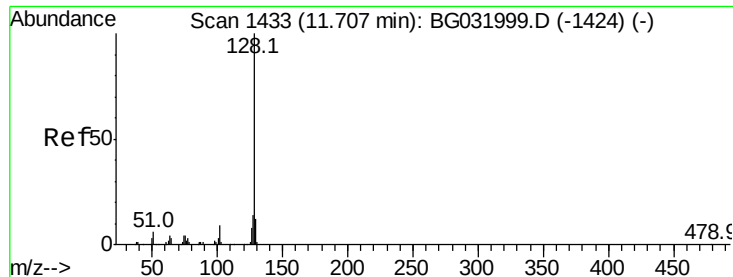
#23  
Nitrobenzene-d5  
Concen: 106.387 ng  
RT: 9.92 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 212026 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.1  | 29.7  | 44.5   |
| 54       | 50.5  | 43.1  | 64.7   |



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

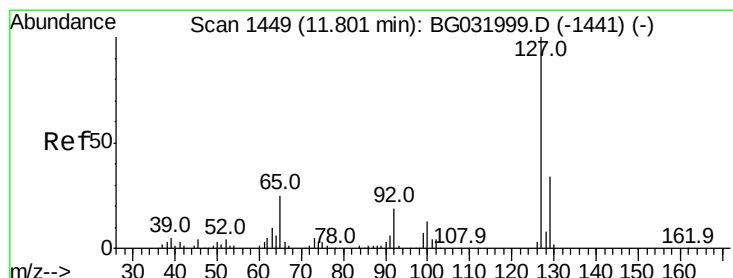
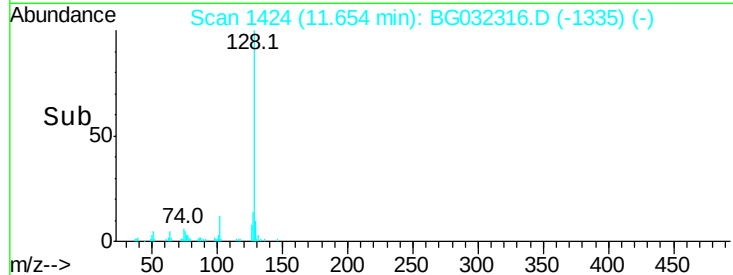
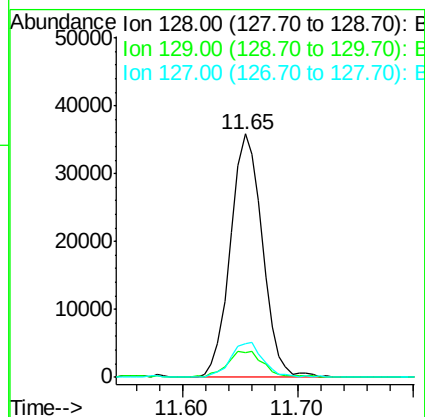
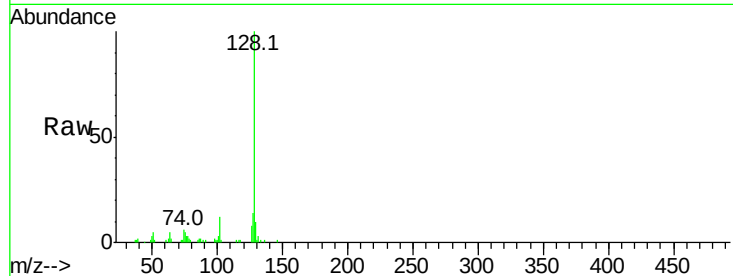




#31  
Naphthalene  
Concen: 10.299 ng  
RT: 11.65 min Scan# 1424  
Delta R.T. -0.01 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

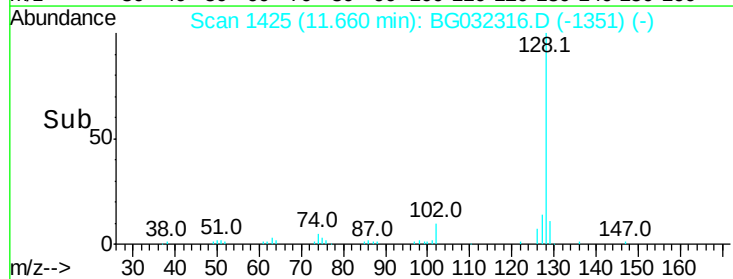
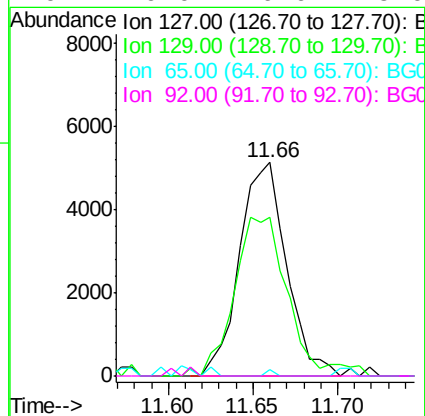
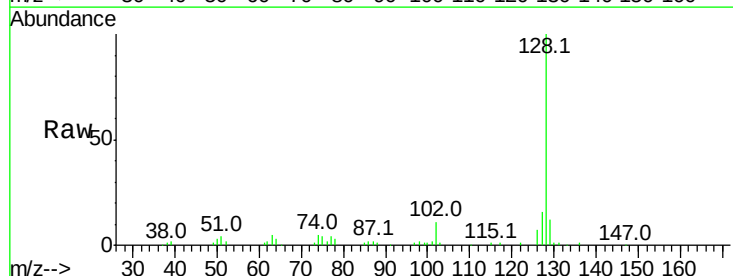
Instrument :  
BNA\_G  
ClientSampleId :

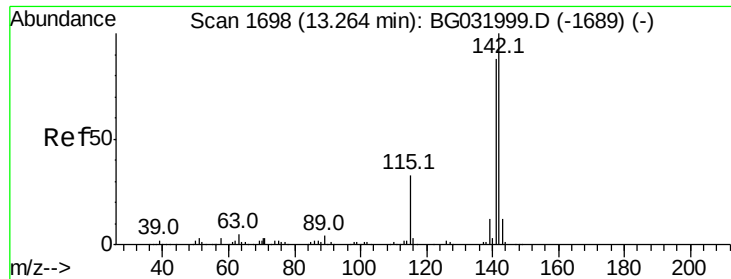
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.3  | 8.6   | 12.8  |
| 127     | 13.6  | 11.6  | 17.4  |



#33  
4-Chloroaniline  
Concen: 3.455 ng  
RT: 11.66 min Scan# 1425  
Delta R.T. -0.09 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 74.2  | 24.0  | 36.0# |
| 65      | 3.1   | 27.0  | 40.4# |
| 92      | 0.0   | 16.6  | 25.0# |





#37

2-Methylnaphthalene

Concen: 8.660 ng

RT: 13.22 min Scan# 1691

Delta R.T. -0.00 min

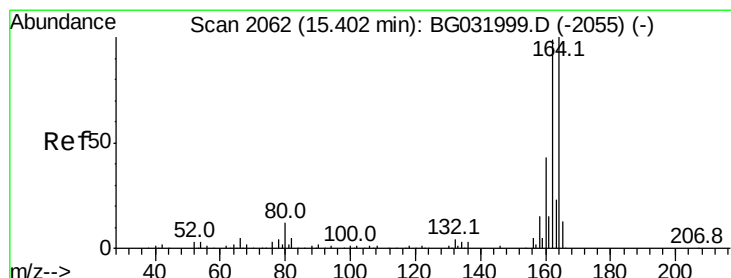
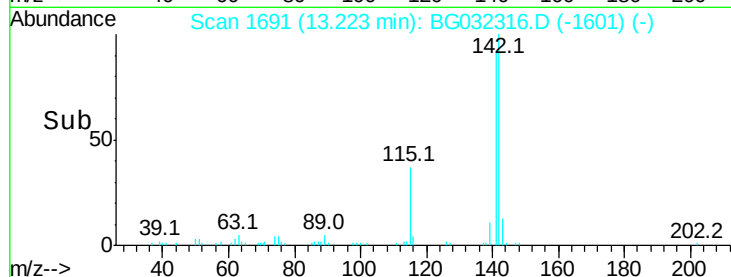
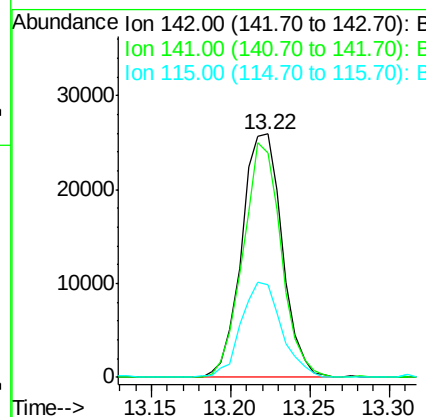
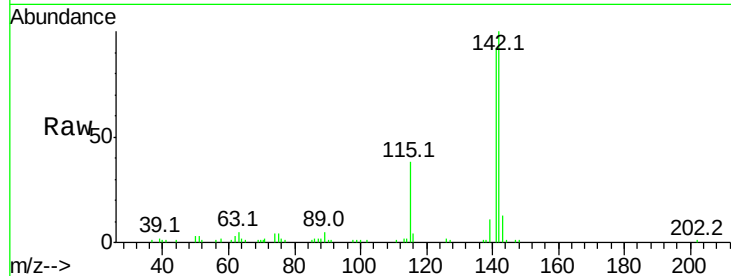
Lab File: BG032316.D

Acq: 26 Jan 2018 6:01

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:142 Resp: 45921

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 92.3  | 67.1  | 100.7 |
| 115 | 37.9  | 30.7  | 46.1  |



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.36 min Scan# 2054

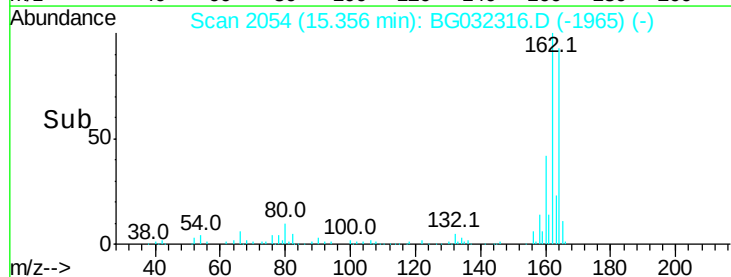
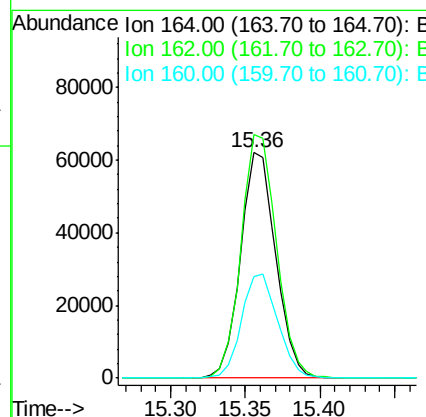
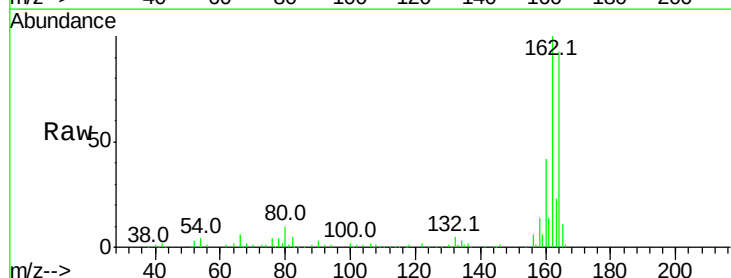
Delta R.T. -0.01 min

Lab File: BG032316.D

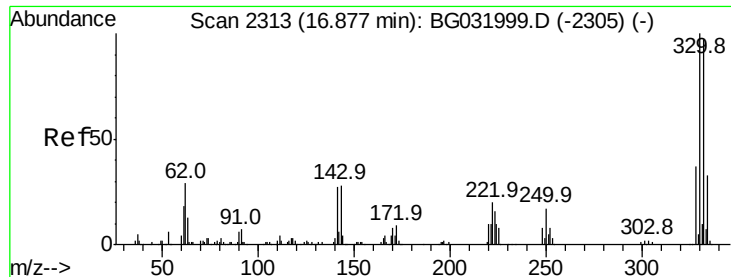
Acq: 26 Jan 2018 6:01

Tgt Ion:164 Resp: 101606

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 107.9 | 78.8  | 118.2 |
| 160 | 44.9  | 35.4  | 53.0  |



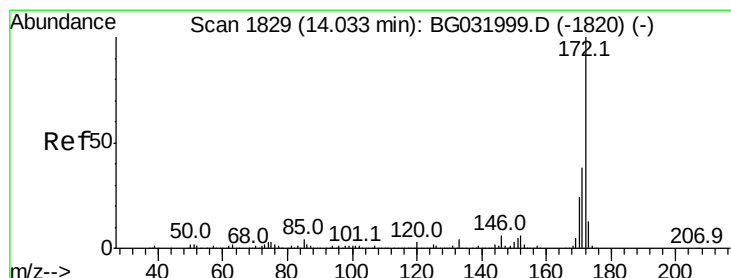
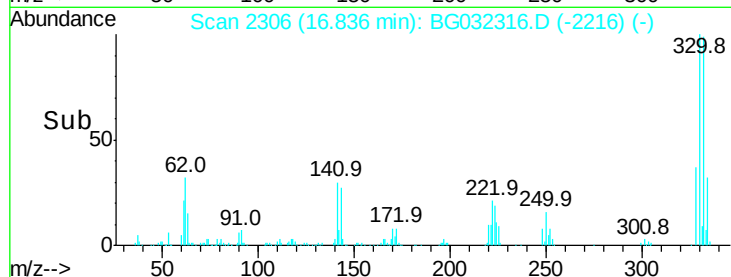
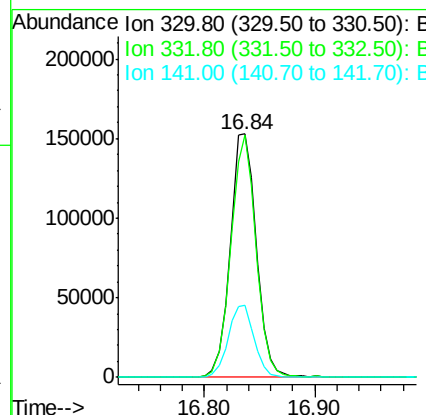
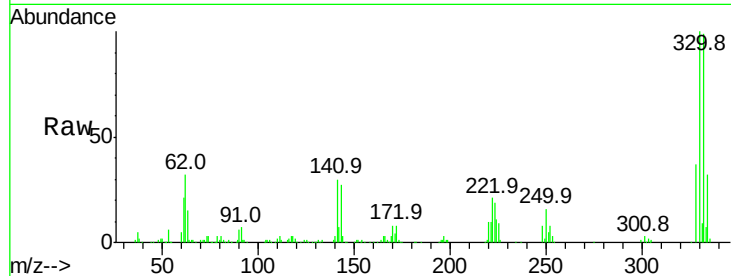




#41  
 2,4,6-Tribromophenol  
 Concen: 151.242 ng  
 RT: 16.84 min Scan# 2306  
 Delta R.T. -0.00 min  
 Lab File: BG032316.D  
 Acq: 26 Jan 2018 6:01

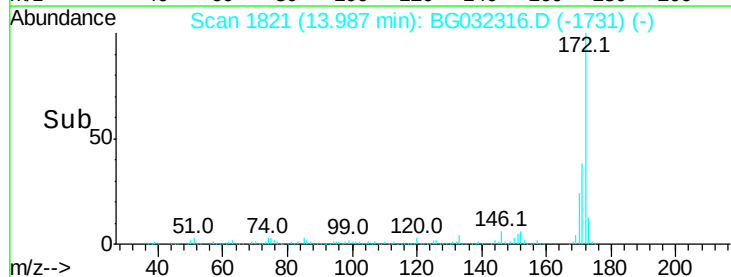
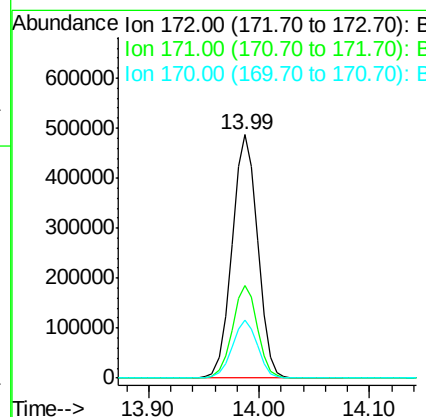
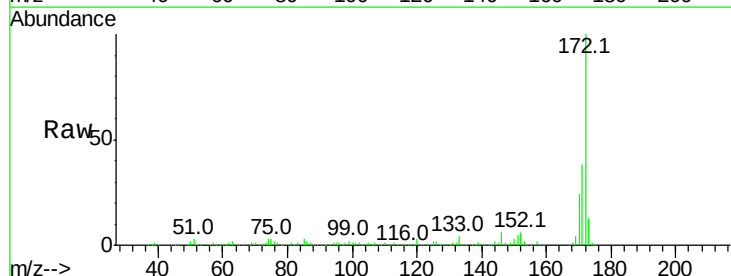
Instrument :  
 BNA\_G  
 ClientSampleId :

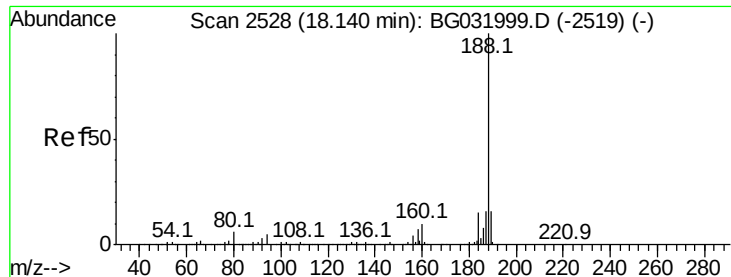
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.0  | 77.0  | 115.6 |
| 141     | 29.3  | 25.2  | 37.8  |



#44  
 2-Fluorobiphenyl  
 Concen: 96.240 ng  
 RT: 13.99 min Scan# 1821  
 Delta R.T. -0.00 min  
 Lab File: BG032316.D  
 Acq: 26 Jan 2018 6:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.1  | 30.0  | 45.0  |
| 170     | 23.9  | 19.5  | 29.3  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.09 min Scan# 2520

Delta R.T. -0.00 min

Lab File: BG032316.D

Acq: 26 Jan 2018 6:01

Instrument :

BNA\_G

ClientSampleId :

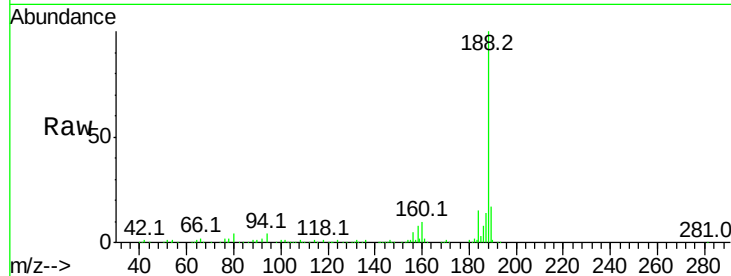
Tot Ion:188 Resp: 291176

Ion Ratio Lower Upper

188 100

94 4.4 6.9 10.3#

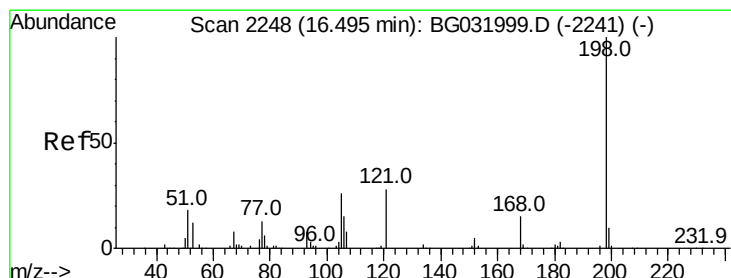
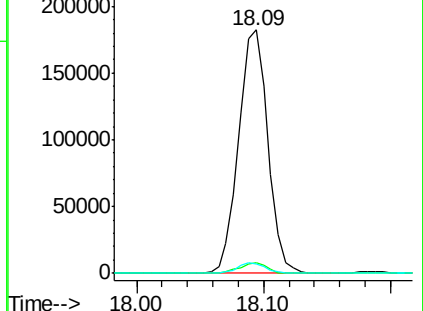
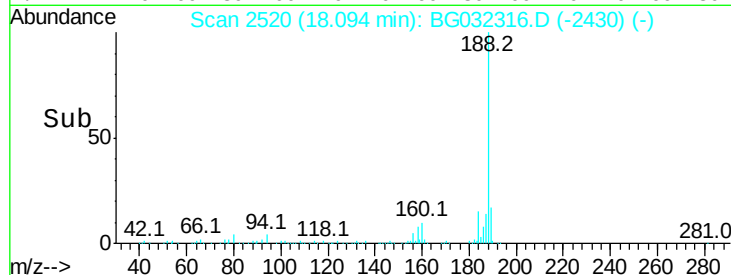
80 3.9 7.7 11.5#



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



#64

4,6-Dinitro-2-methylphenol

Concen: 4.911 ng

RT: 16.29 min Scan# 2213

Delta R.T. -0.17 min

Lab File: BG032316.D

Acq: 26 Jan 2018 6:01

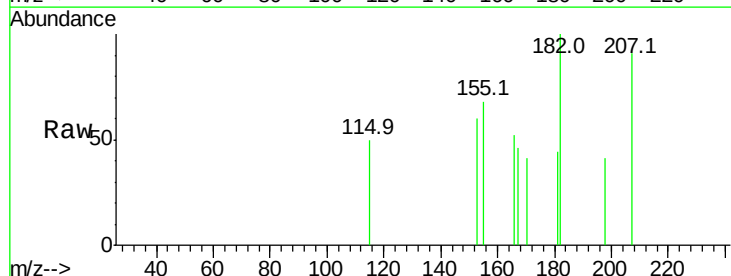
Tgt Ion:198 Resp: 55

Ion Ratio Lower Upper

198 100

51 0.0 30.6 70.6#

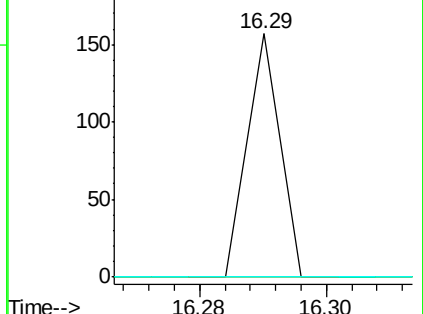
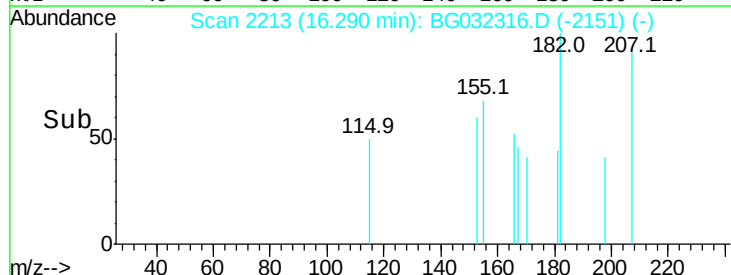
105 0.0 23.8 63.8#

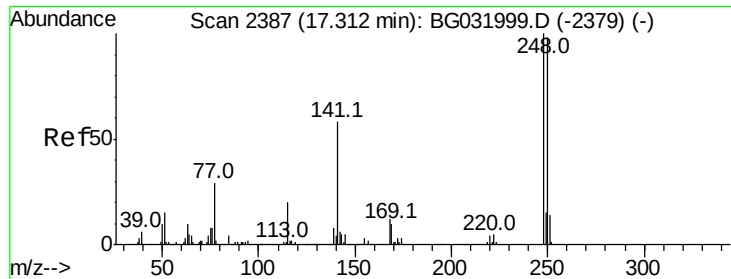


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

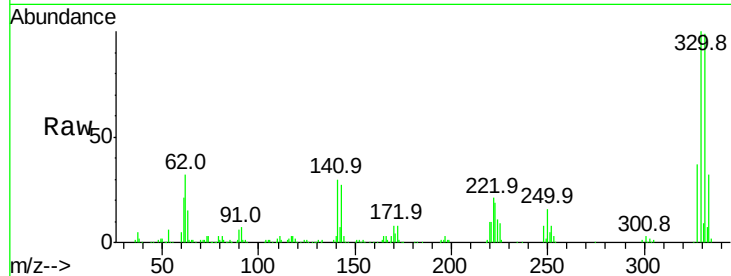




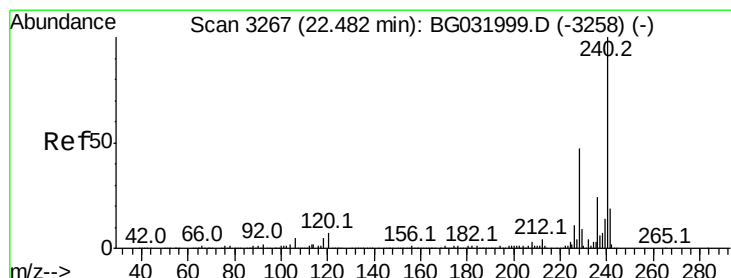
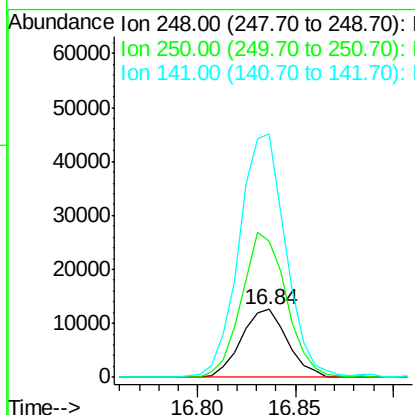
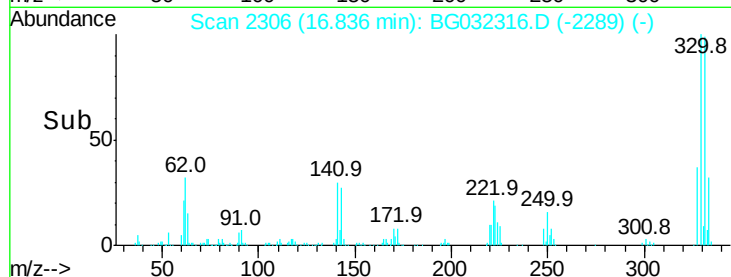
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.958 ng  
 RT: 16.84 min Scan# 2306  
 Delta R.T. -0.43 min  
 Lab File: BG032316.D  
 Acq: 26 Jan 2018 6:01

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 20541  
 Ion Ratio Lower Upper  
 248 100  
 250 200.3 77.1 115.7#  
 141 359.7 50.8 76.2#

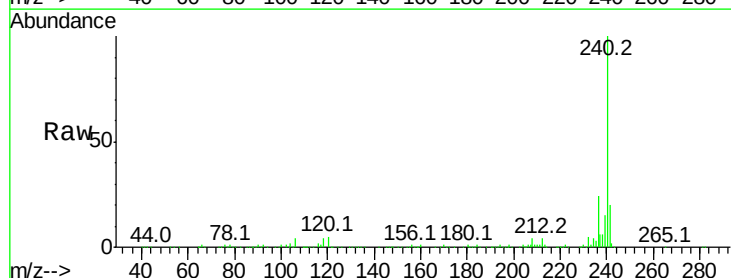


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

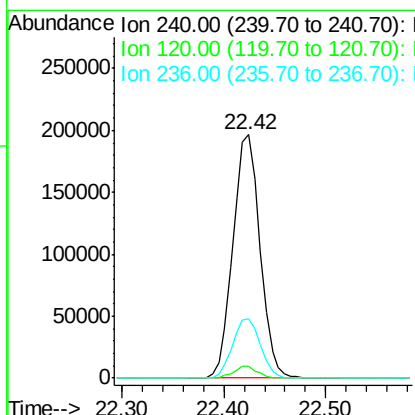
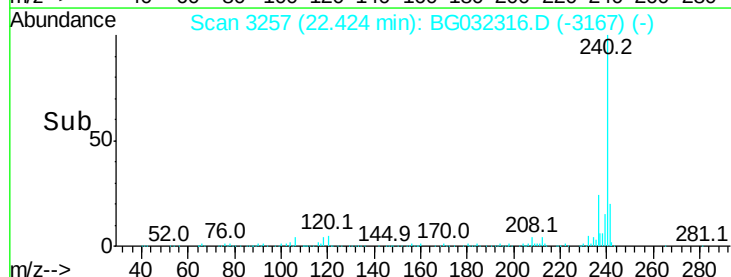


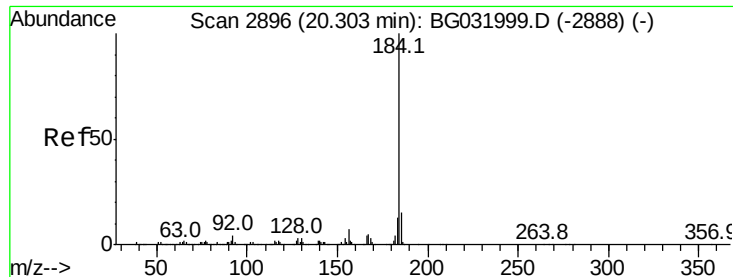
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.42 min Scan# 3257  
 Delta R.T. -0.00 min  
 Lab File: BG032316.D  
 Acq: 26 Jan 2018 6:01

Tgt Ion:240 Resp: 364674  
 Ion Ratio Lower Upper  
 240 100  
 120 4.7 6.8 10.2#  
 236 24.3 20.9 31.3



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





#76

Benzidine

Concen: 2.412 ng

RT: 20.63 min Scan# 2952

Delta R.T. 0.37 min

Lab File: BG032316.D

Acq: 26 Jan 2018 6:01

Instrument :

BNA\_G

ClientSampleId :

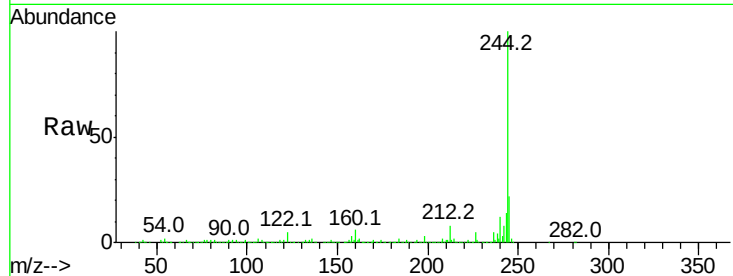
Tot Ion:184 Resp: 21993

Ion Ratio Lower Upper

184 100

185 14.1 11.1 16.7

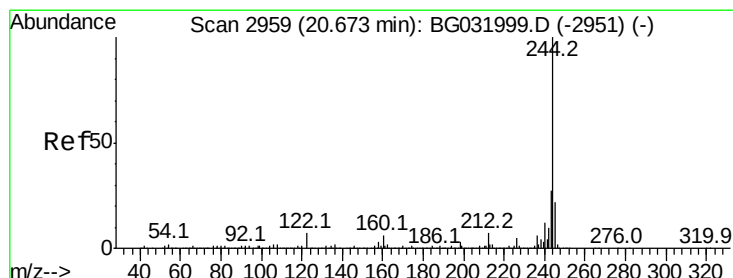
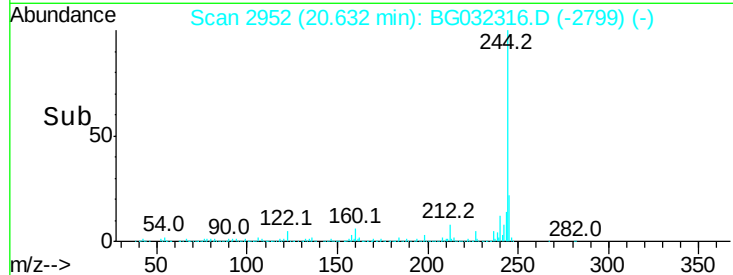
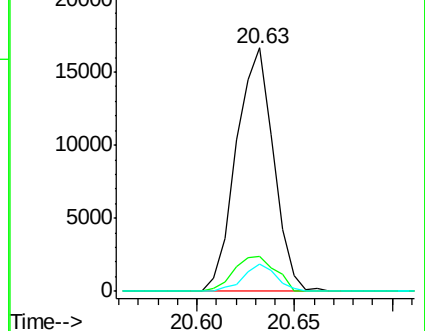
183 11.3 10.6 16.0



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



#78

Terphenyl-d14

Concen: 91.764 ng

RT: 20.63 min Scan# 2952

Delta R.T. -0.00 min

Lab File: BG032316.D

Acq: 26 Jan 2018 6:01

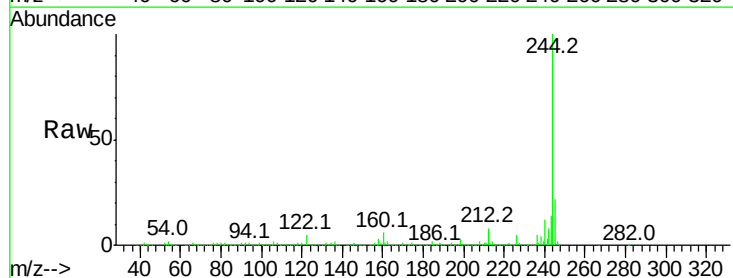
Tgt Ion:244 Resp: 1515547

Ion Ratio Lower Upper

244 100

212 7.8 5.8 8.8

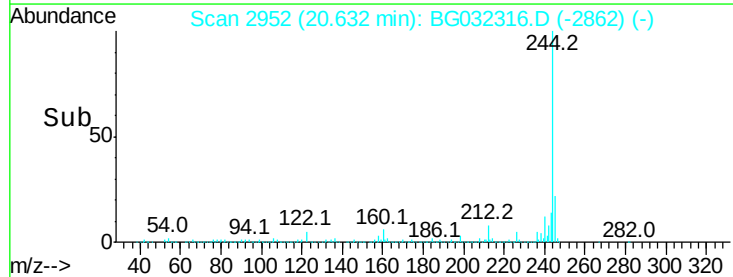
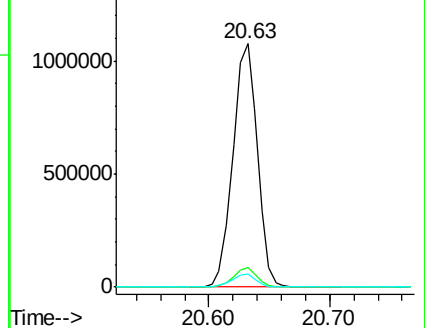
122 5.4 7.0 10.4#

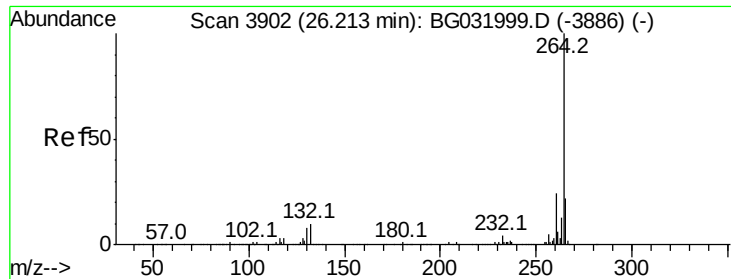


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.11 min Scan# 3885  
Delta R.T. 0.01 min  
Lab File: BG032316.D  
Acq: 26 Jan 2018 6:01

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 17.4  | 26.0  |
| 265     | 20.8  | 17.7  | 26.5  |

