

Data Path : U:\HPCHEM1\BNA G\DATA\BG012418\  
 Data File : BG032294.D  
 Acq On : 25 Jan 2018 12:40  
 Operator : SJ/JU  
 Sample : J1266-12  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 25 13:25:23 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 | 8.72  | 152  | 36635    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.60 | 136  | 139261   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.36 | 164  | 95592    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.09 | 188  | 275528   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.42 | 240  | 369505   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.10 | 264  | 384068   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.16  | 112  | 274573   | 137.08 | ng    | 0.00     |
| 7) Phenol-d6                | 7.84  | 99   | 313957   | 124.45 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.92  | 82   | 230376   | 111.92 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.84 | 330  | 276956   | 175.09 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.99 | 172  | 797195   | 103.41 | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.63 | 244  | 1764769  | 105.46 | ng    | 0.00     |

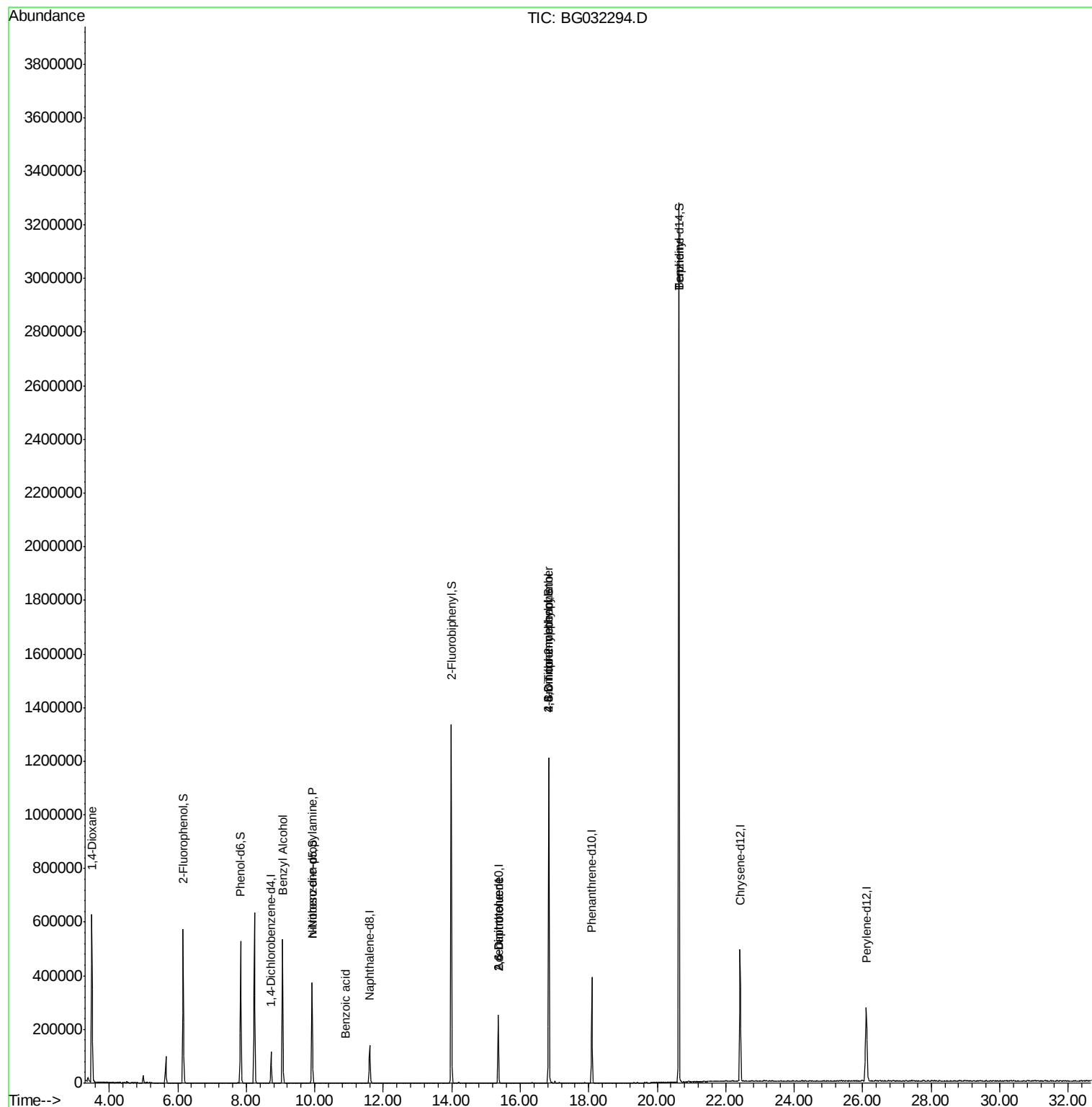
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.49  | 88   | 7376     | 9.585  | ng    | # 1    |
| 15) Benzyl Alcohol             | 9.06  | 79   | 4146     | 2.262  | ng    | # 23   |
| 19) n-Nitroso-di-n-propylamine | 9.92  | 70   | 34094    | 21.782 | ng    | # 75   |
| 32) Benzoic acid               | 10.90 | 122  | 55       | 5.288  | ng    | # 1    |
| 50) 2,6-Dinitrotoluene         | 15.36 | 165  | 13063    | 7.523  | ng    | # 20   |
| 56) 2,4-Dinitrotoluene         | 15.36 | 165  | 13063    | 5.588  | ng    | # 18   |
| 64) 4,6-Dinitro-2-methylphenol | 16.83 | 198  | 769      | 5.276  | ng    | # 53   |
| 66) 4-Bromophenyl-phenylether  | 16.84 | 248  | 23317    | 5.948  | ng    | # 1    |
| 76) Benzidine                  | 20.63 | 184  | 26260    | 2.842  | ng    | # 92   |

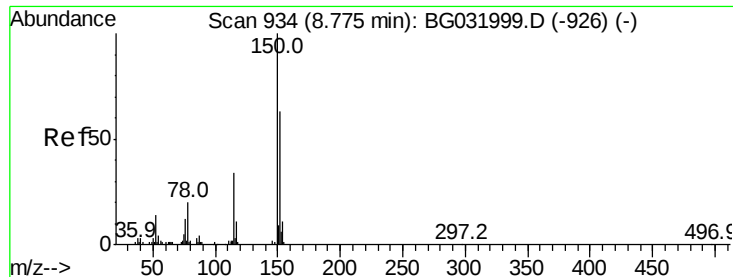
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 24 14:02:41 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.72 min Scan# 925

Delta R.T. -0.00 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

Instrument :

BNA\_G

ClientSampleId :

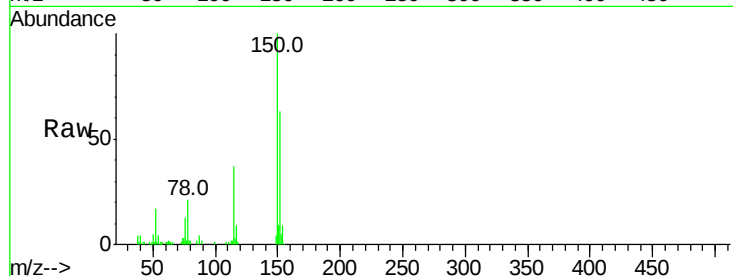
Tot Ion:152 Resp: 36635

Ion Ratio Lower Upper

152 100

150 159.9 126.6 189.8

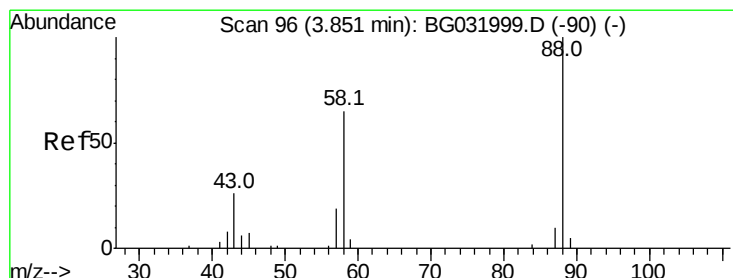
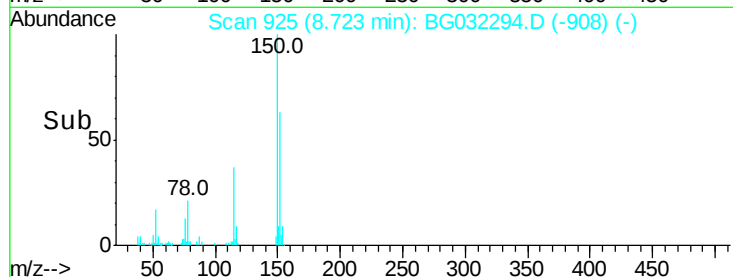
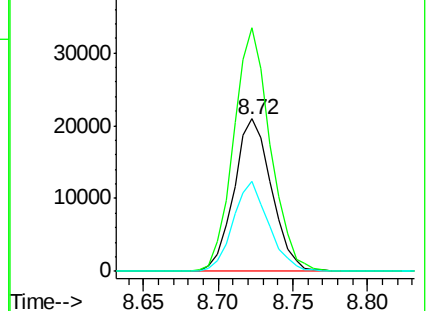
115 58.8 53.0 79.4



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



#2

1,4-Dioxane

Concen: 9.585 ng

RT: 3.49 min Scan# 35

Delta R.T. -0.33 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

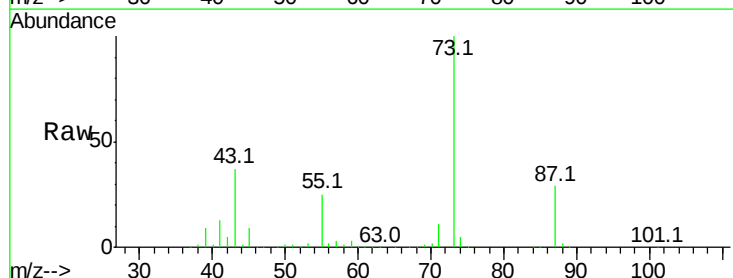
Tgt Ion: 88 Resp: 7376

Ion Ratio Lower Upper

88 100

58 32.2 79.6 119.4#

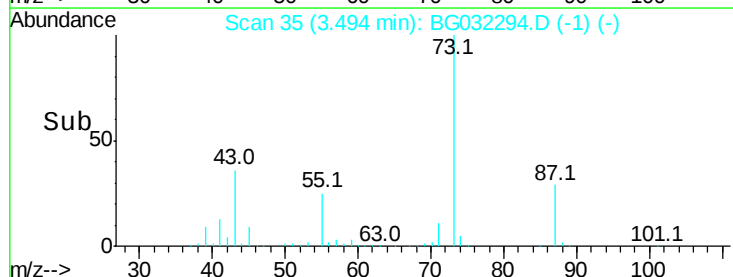
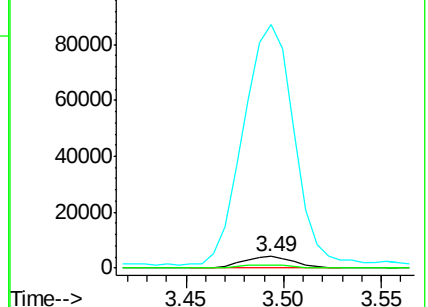
43 2109.3 27.4 41.0#

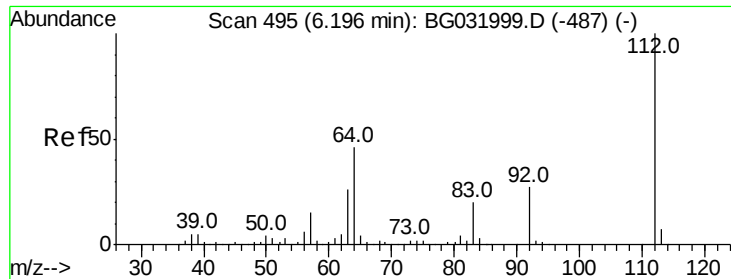


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 137.075 ng

RT: 6.16 min Scan# 488

Delta R.T. -0.00 min

Lab File: BG032294.D

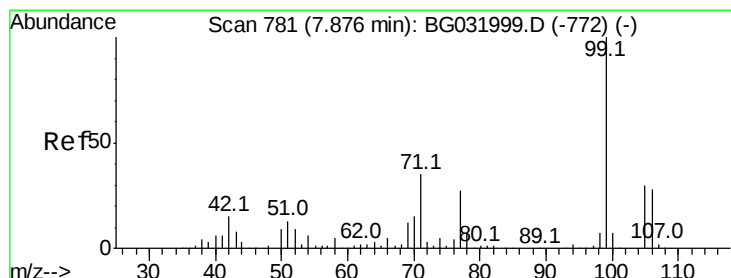
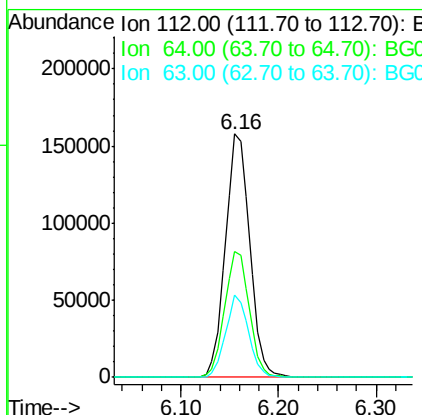
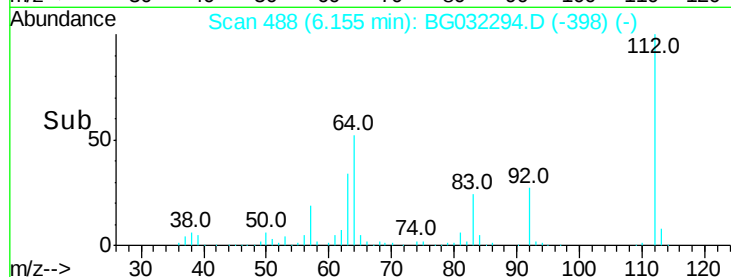
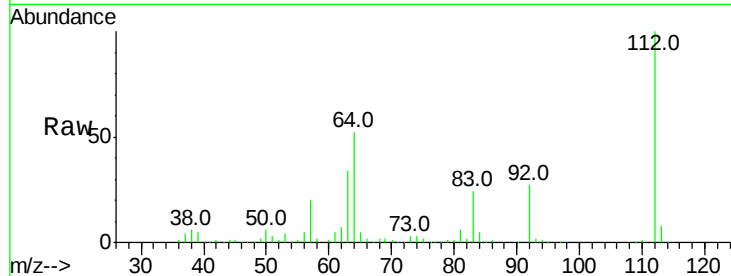
Acq: 25 Jan 2018 12:40

Instrument :

BNA\_G

ClientSampled :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 274573 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 51.7  | 56.3  | 84.5#  |
| 63        | 33.8  | 30.1  | 45.1   |



#7

Phenol-d6

Concen: 124.450 ng

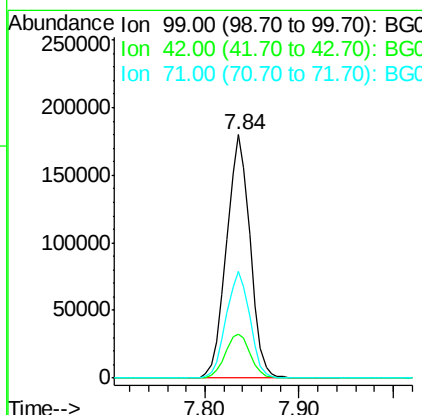
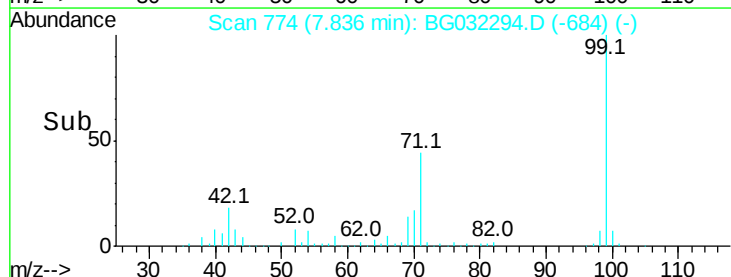
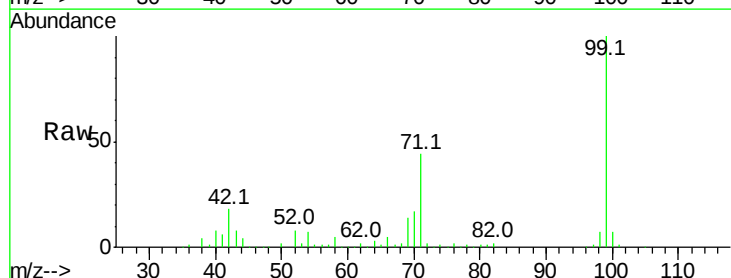
RT: 7.84 min Scan# 774

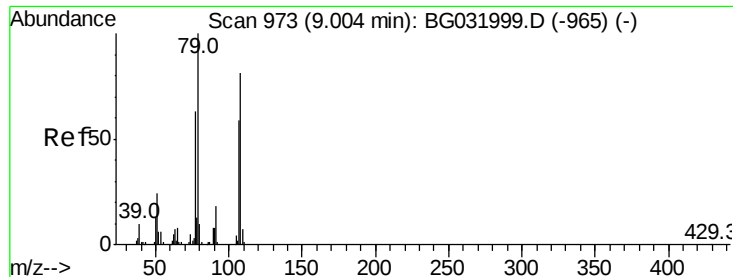
Delta R.T. -0.00 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 313957 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.2  | 14.1  | 21.1   |
| 71        | 43.6  | 26.1  | 39.1#  |





#15

Benzyl Alcohol

Concen: 2.262 ng

RT: 9.06 min Scan# 983

Delta R.T. 0.10 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

Instrument :

BNA\_G

ClientSampleId :

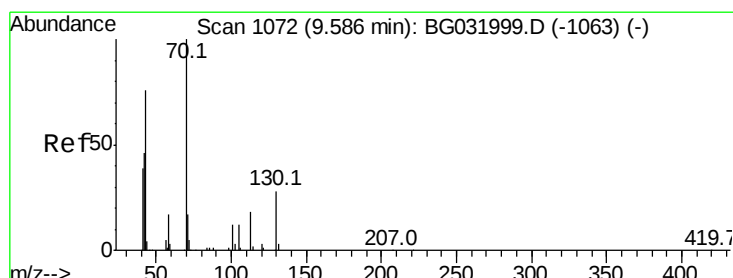
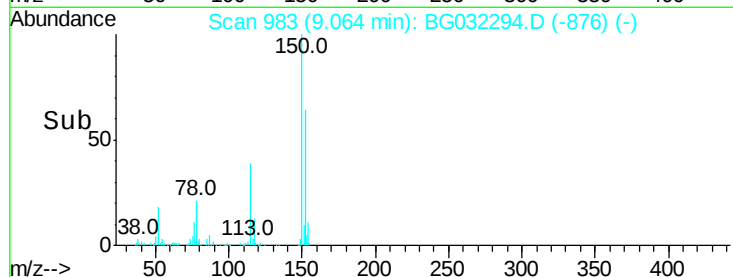
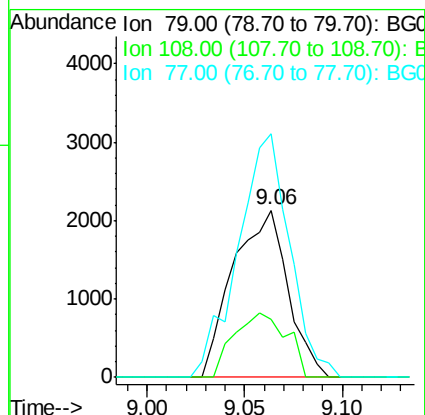
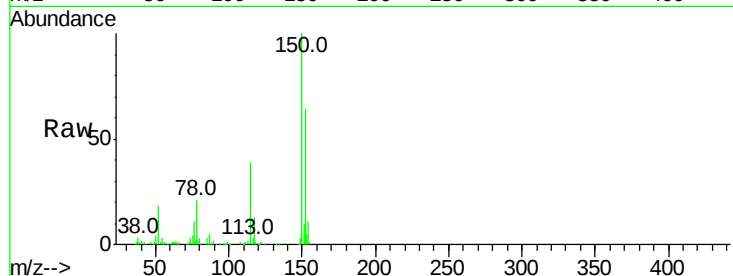
Tot Ion: 79 Resp: 4146

Ion Ratio Lower Upper

79 100

108 34.8 57.2 85.8#

77 145.5 46.1 69.1#



#19

n-Nitroso-di-n-propylamine

Concen: 21.782 ng

RT: 9.92 min Scan# 1129

Delta R.T. 0.38 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

Tgt Ion: 70 Resp: 34094

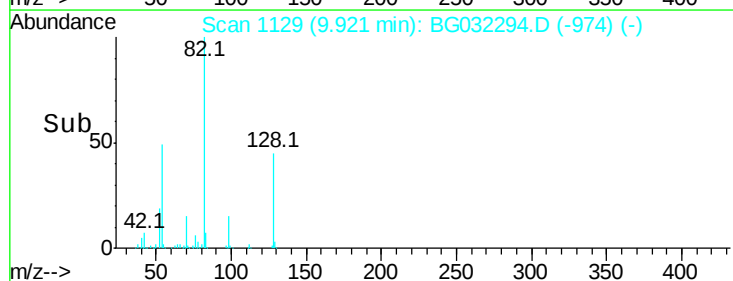
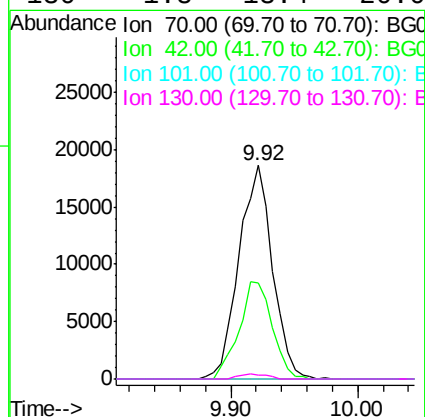
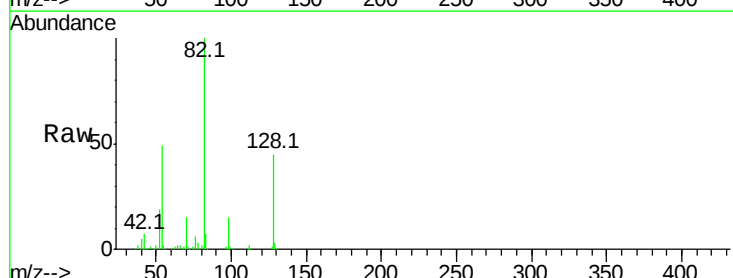
Ion Ratio Lower Upper

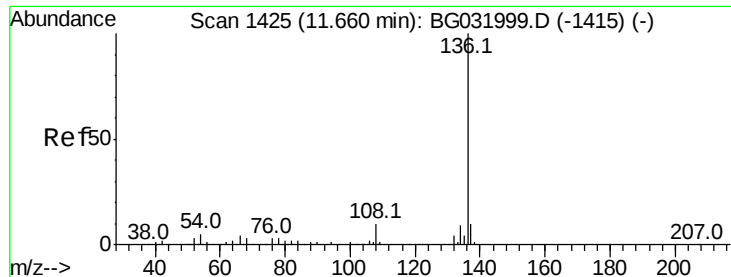
70 100

42 44.9 49.1 73.7#

101 0.0 8.5 12.7#

130 1.8 13.4 20.0#

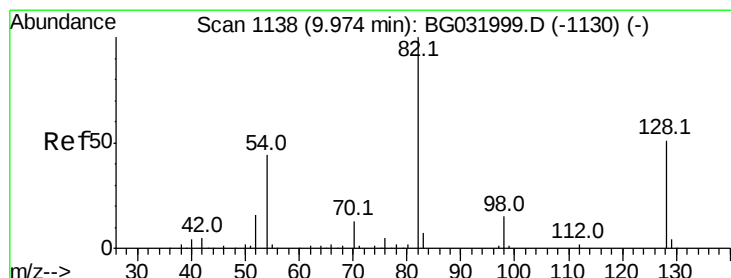
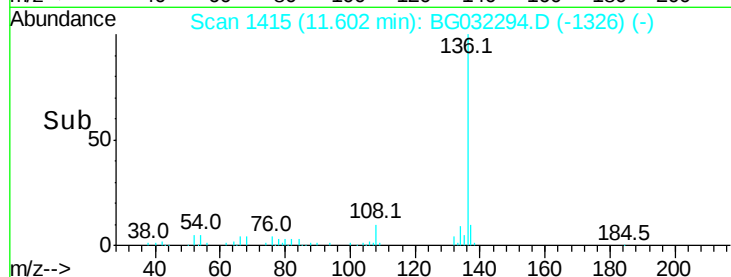
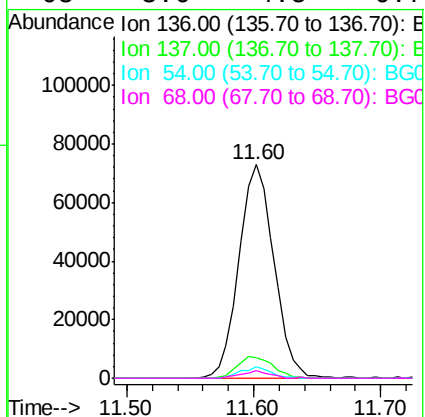
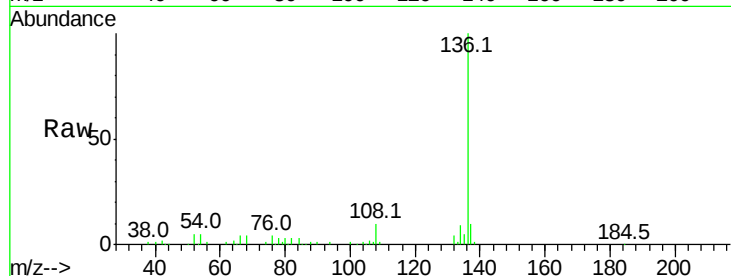




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.60 min Scan# 1415  
Delta R.T. -0.01 min  
Lab File: BG032294.D  
Acq: 25 Jan 2018 12:40

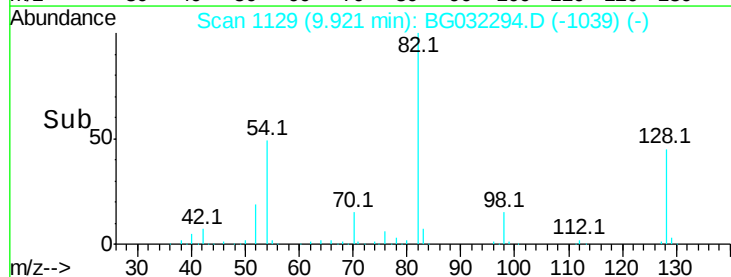
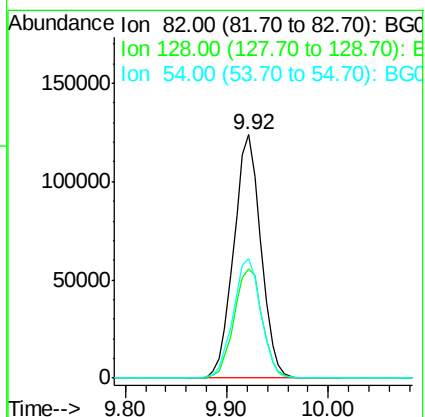
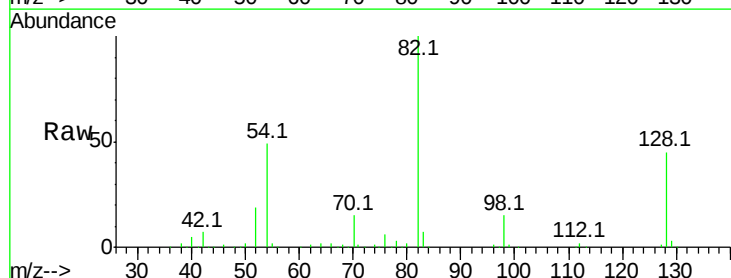
Instrument :  
BNA\_G  
ClientSampleId :

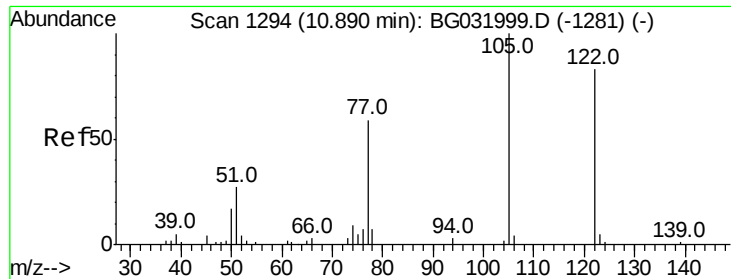
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 139261 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 9.8   | 9.2   | 13.8   |
| 54       | 5.3   | 10.3  | 15.5#  |
| 68       | 3.6   | 4.5   | 6.7#   |



#23  
Nitrobenzene-d5  
Concen: 111.919 ng  
RT: 9.92 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: BG032294.D  
Acq: 25 Jan 2018 12:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 230376 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.9  | 29.7  | 44.5#  |
| 54       | 49.2  | 43.1  | 64.7   |

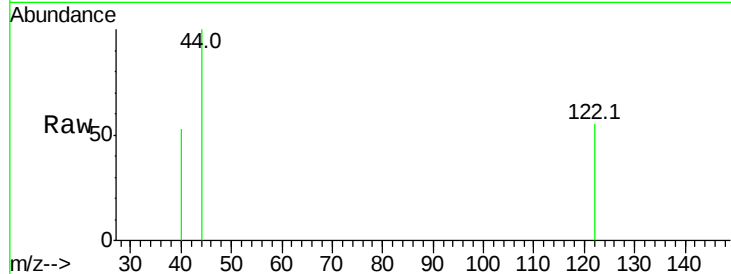




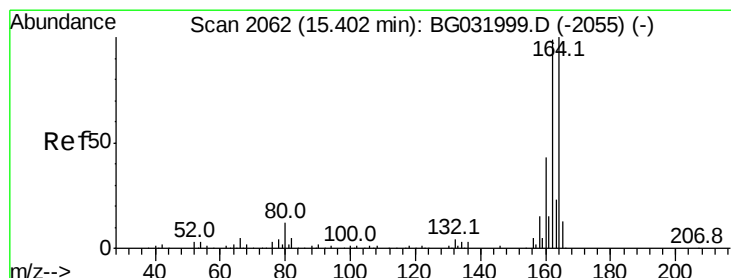
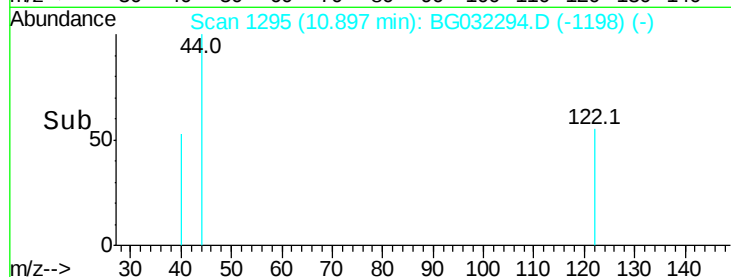
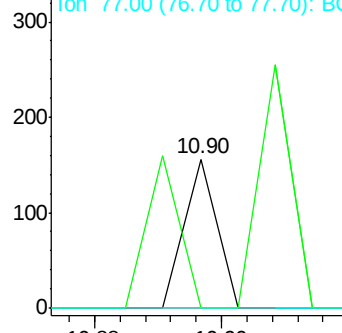
#32  
Benzoic acid  
Concen: 5.288 ng  
RT: 10.90 min Scan# 1295  
Delta R.T. 0.04 min  
Lab File: BG032294.D  
Acq: 25 Jan 2018 12:40

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:122 Resp: 55  
Ion Ratio Lower Upper  
122 100  
105 0.0 123.5 163.5#  
77 0.0 85.7 125.7#

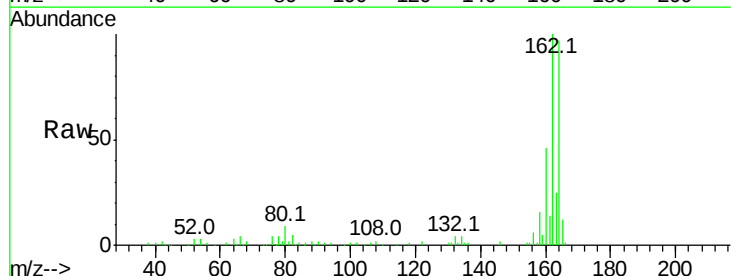


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BGC

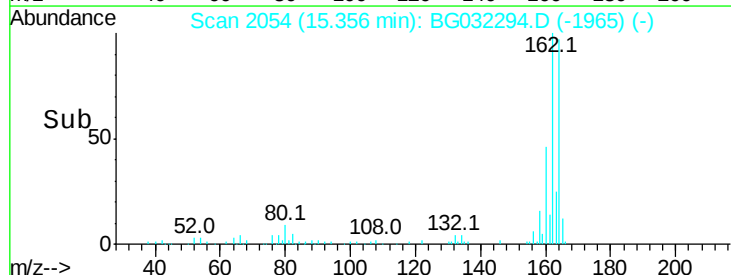
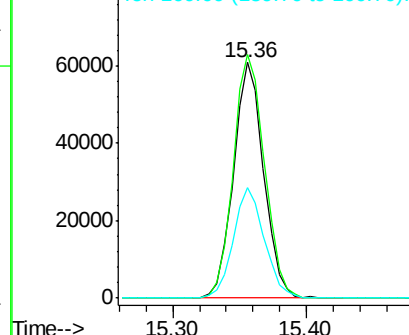


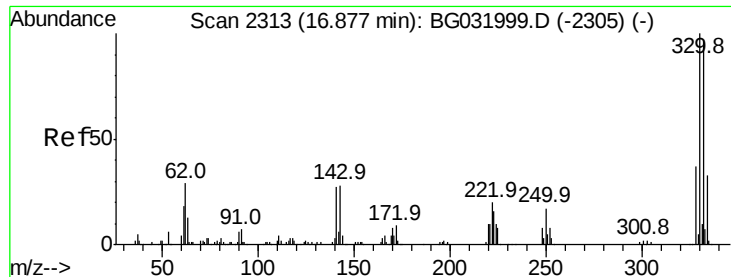
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.36 min Scan# 2054  
Delta R.T. -0.01 min  
Lab File: BG032294.D  
Acq: 25 Jan 2018 12:40

Tgt Ion:164 Resp: 95592  
Ion Ratio Lower Upper  
164 100  
162 103.3 78.8 118.2  
160 47.1 35.4 53.0



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

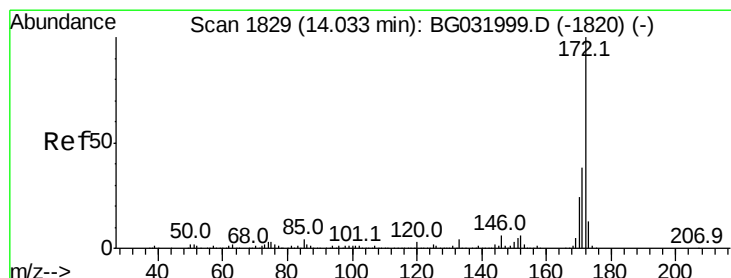
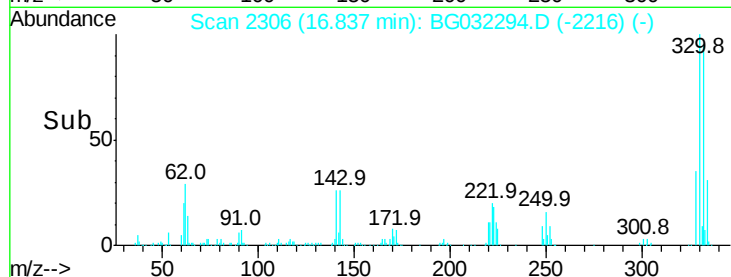
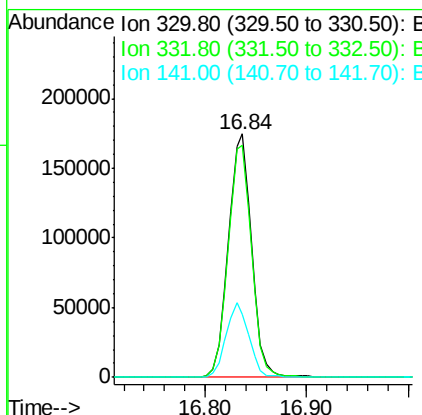
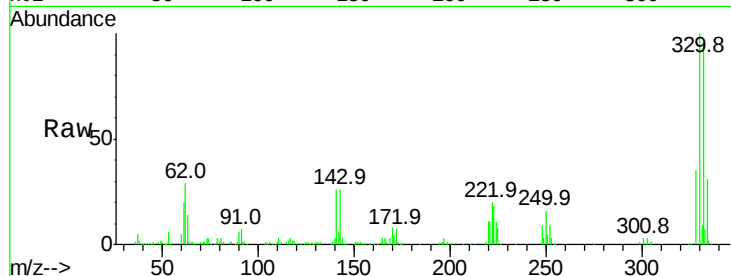




#41  
 2,4,6-Tribromophenol  
 Concen: 175.086 ng  
 RT: 16.84 min Scan# 2306  
 Delta R.T. -0.00 min  
 Lab File: BG032294.D  
 Acq: 25 Jan 2018 12:40

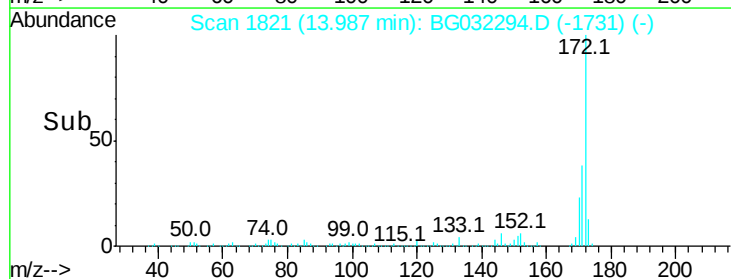
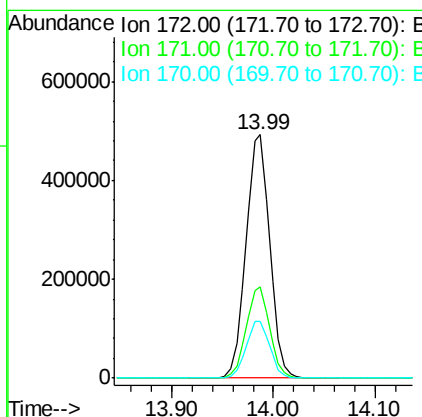
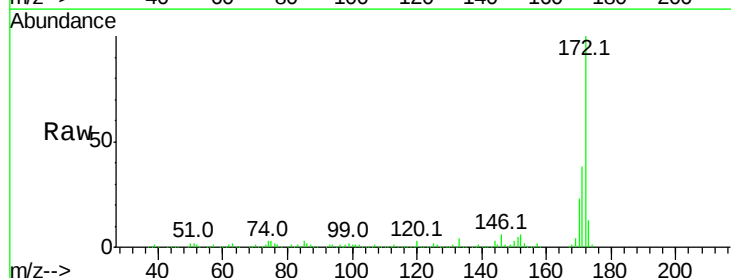
Instrument :  
 BNA\_G  
 ClientSampleId :

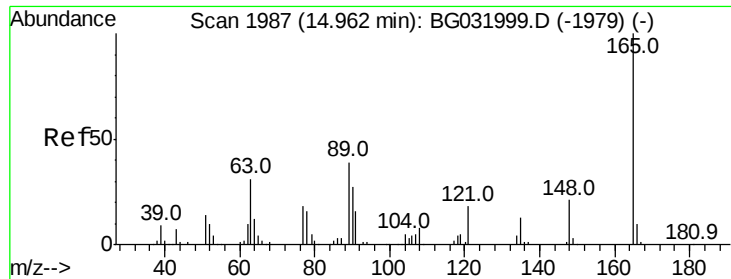
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 77.0  | 115.6 |
| 141     | 29.9  | 25.2  | 37.8  |



#44  
 2-Fluorobiphenyl  
 Concen: 103.406 ng  
 RT: 13.99 min Scan# 1821  
 Delta R.T. -0.00 min  
 Lab File: BG032294.D  
 Acq: 25 Jan 2018 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.5  | 30.0  | 45.0  |
| 170     | 23.2  | 19.5  | 29.3  |

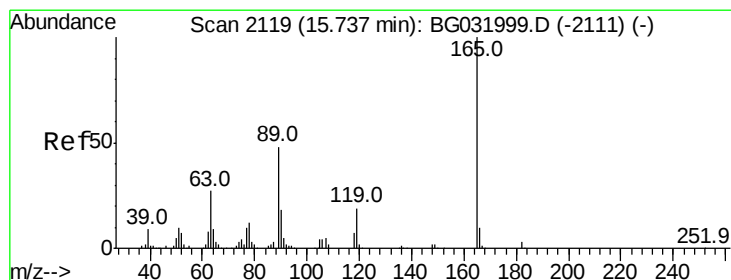
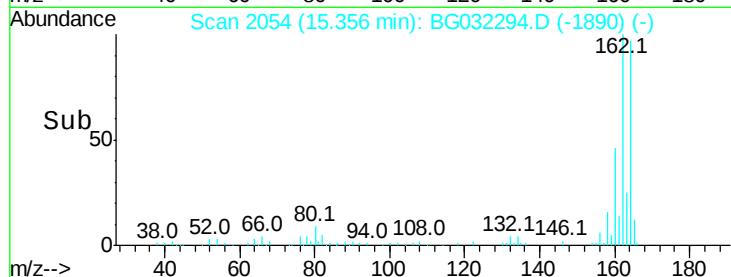
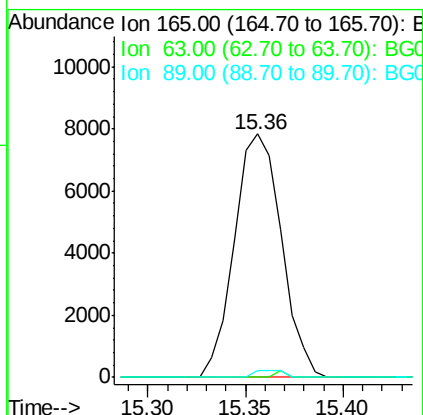
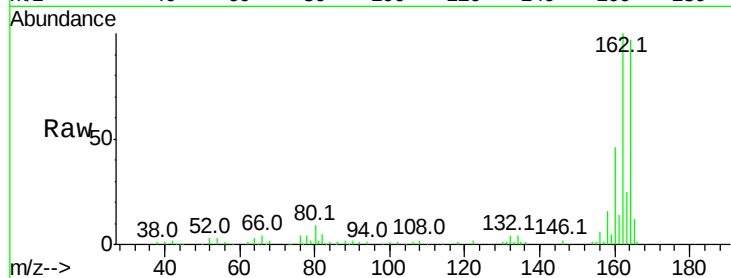




#50  
2,6-Dinitrotoluene  
Concen: 7.523 ng  
RT: 15.36 min Scan# 2054  
Delta R.T. 0.43 min  
Lab File: BG032294.D  
Acq: 25 Jan 2018 12:40

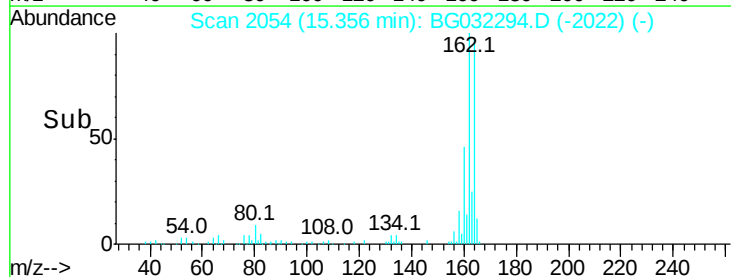
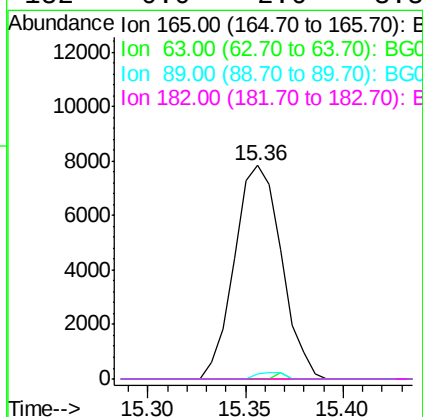
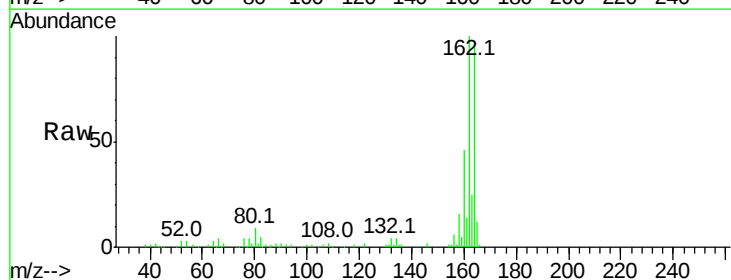
Instrument :  
BNA\_G  
ClientSampleId :

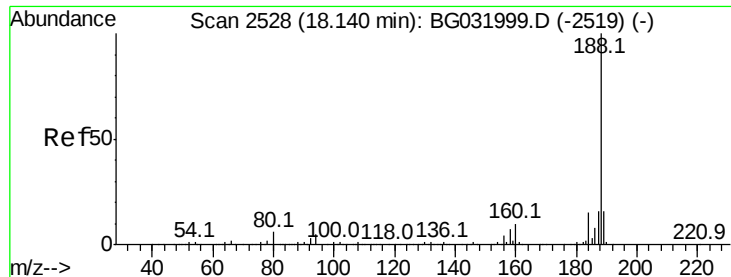
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 52.7  | 79.1# |
| 89      | 2.6   | 49.2  | 73.8# |



#56  
2,4-Dinitrotoluene  
Concen: 5.588 ng  
RT: 15.36 min Scan# 2054  
Delta R.T. -0.34 min  
Lab File: BG032294.D  
Acq: 25 Jan 2018 12:40

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 2.6   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.09 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

Instrument :

BNA\_G

ClientSampleId :

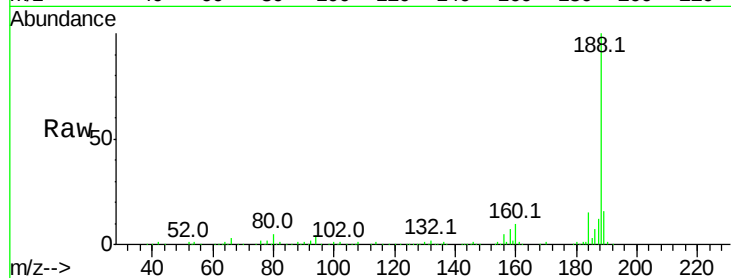
Tot Ion:188 Resp: 275528

Ion Ratio Lower Upper

188 100

94 3.8 6.9 10.3#

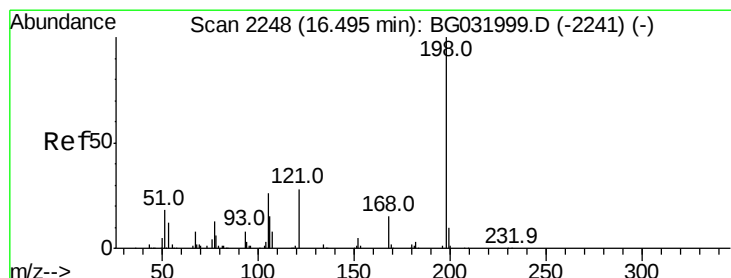
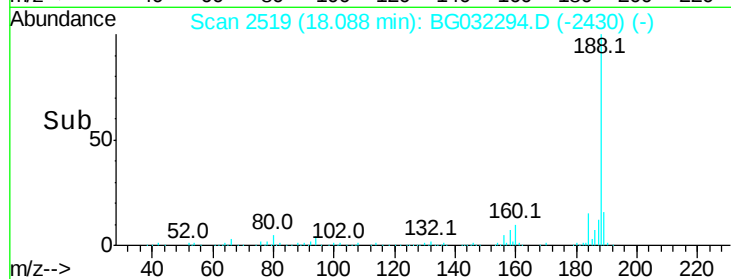
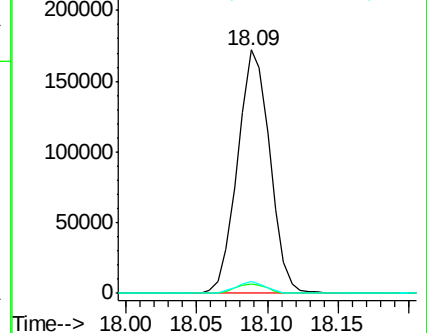
80 5.1 7.7 11.5#



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: 5.276 ng

RT: 16.83 min Scan# 2305

Delta R.T. 0.38 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

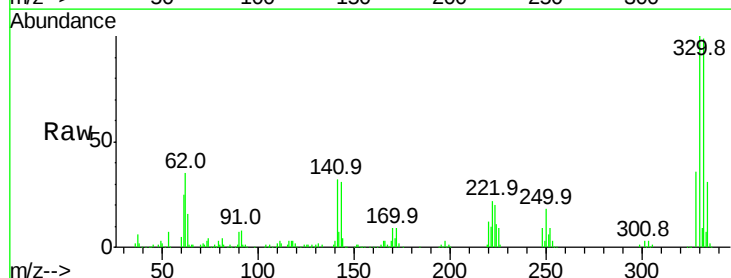
Tgt Ion:198 Resp: 769

Ion Ratio Lower Upper

198 100

51 77.3 30.6 70.6#

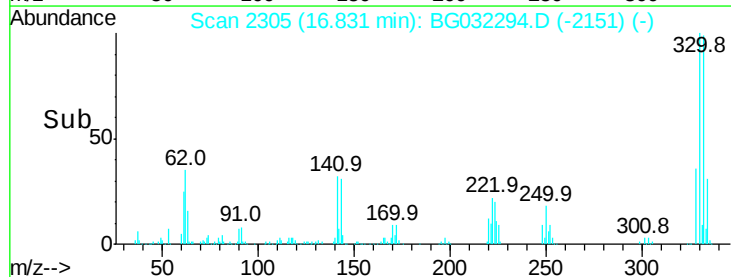
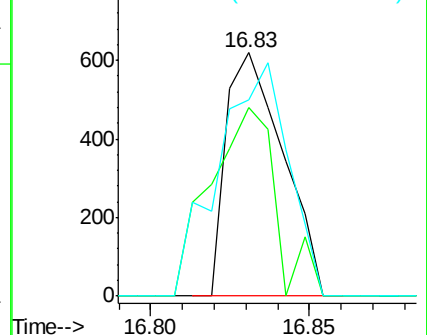
105 80.5 23.8 63.8#

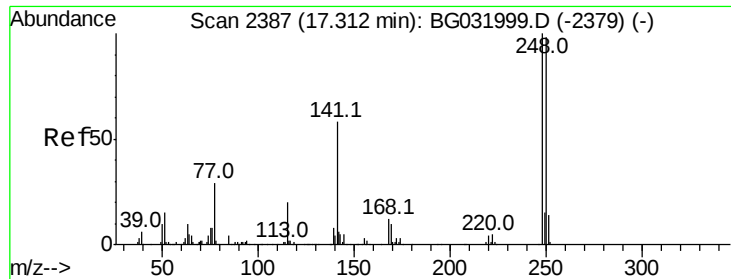


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

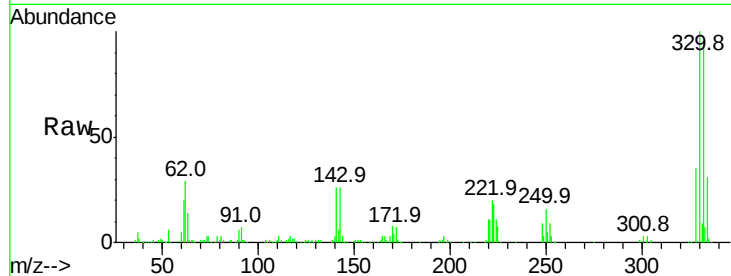




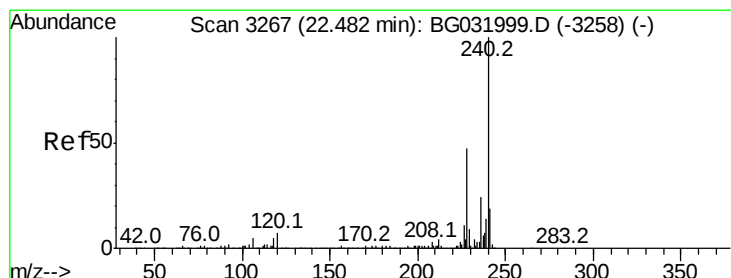
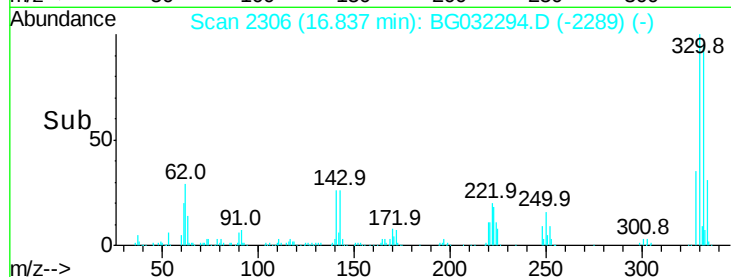
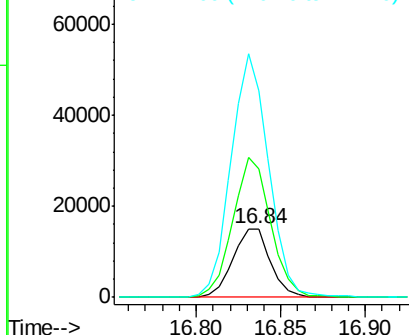
#66  
4-Bromophenyl-phenylether  
Concen: 5.948 ng  
RT: 16.84 min Scan# 2306  
Delta R.T. -0.43 min  
Lab File: BG032294.D  
Acq: 25 Jan 2018 12:40

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 23317  
Ion Ratio Lower Upper  
248 100  
250 187.8 77.1 115.7#  
141 300.1 50.8 76.2#

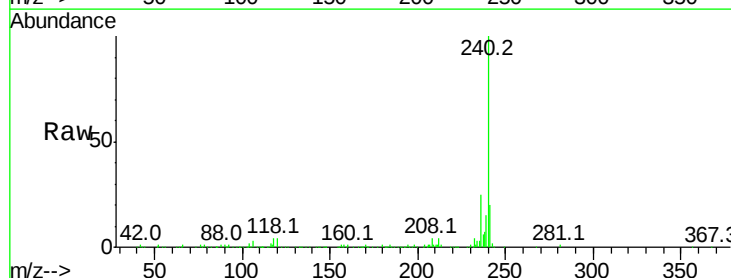


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

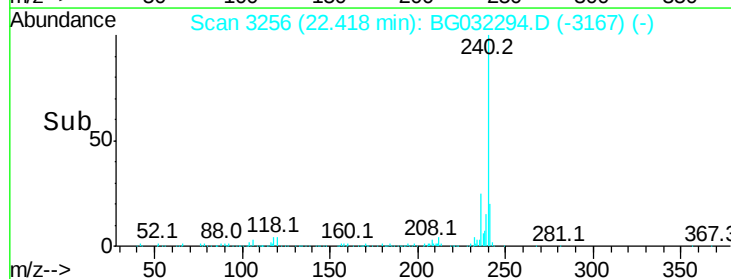
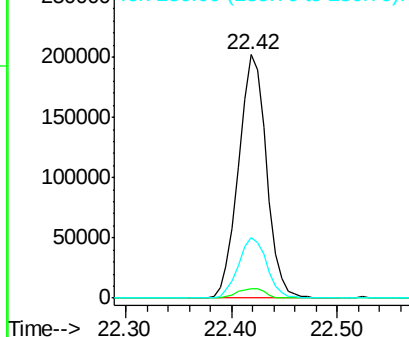


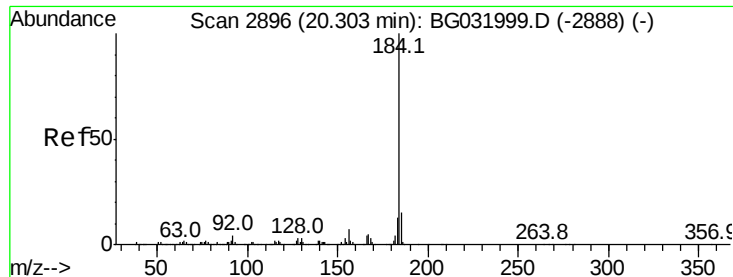
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.42 min Scan# 3256  
Delta R.T. -0.01 min  
Lab File: BG032294.D  
Acq: 25 Jan 2018 12:40

Tgt Ion:240 Resp: 369505  
Ion Ratio Lower Upper  
240 100  
120 4.1 6.8 10.2#  
236 24.8 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: 2.842 ng

RT: 20.63 min Scan# 2952

Delta R.T. 0.37 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

Instrument :

BNA\_G

ClientSampleId :

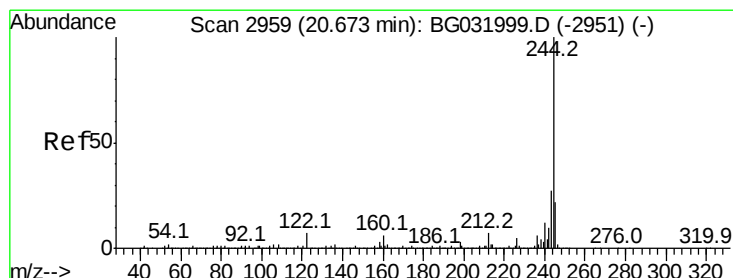
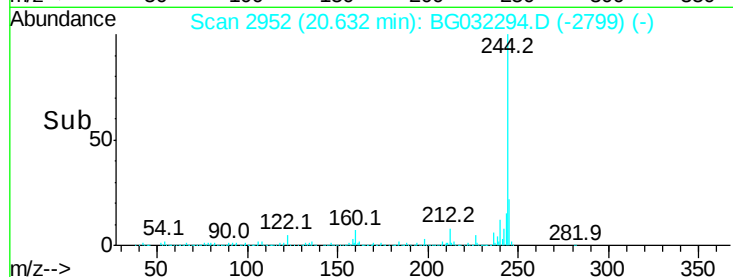
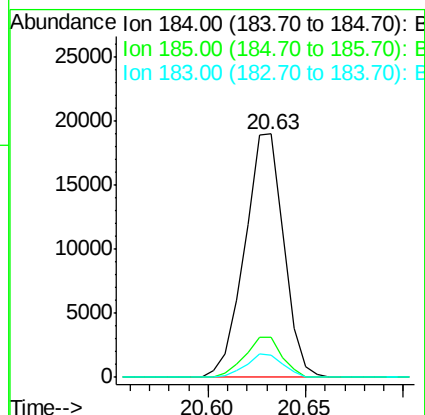
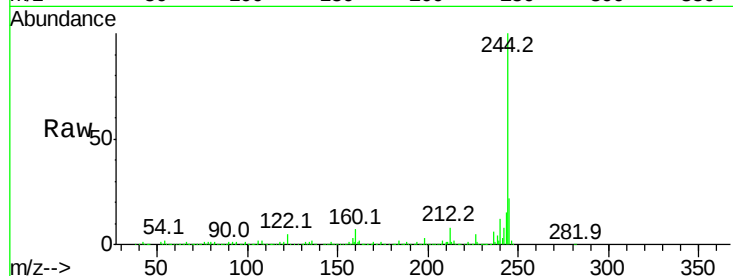
Tot Ion:184 Resp: 26260

Ion Ratio Lower Upper

184 100

185 16.6 11.1 16.7

183 9.1 10.6 16.0#



#78

Terphenyl-d14

Concen: 105.457 ng

RT: 20.63 min Scan# 2952

Delta R.T. -0.00 min

Lab File: BG032294.D

Acq: 25 Jan 2018 12:40

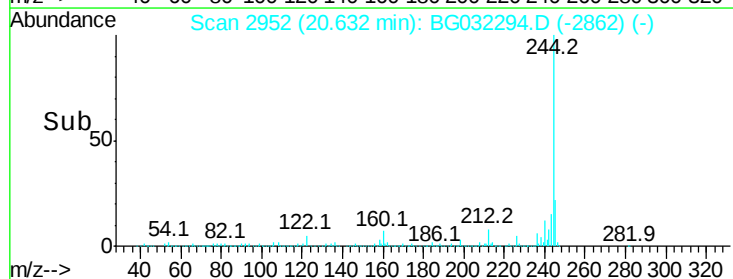
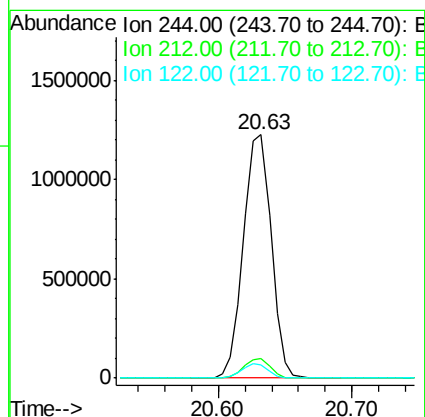
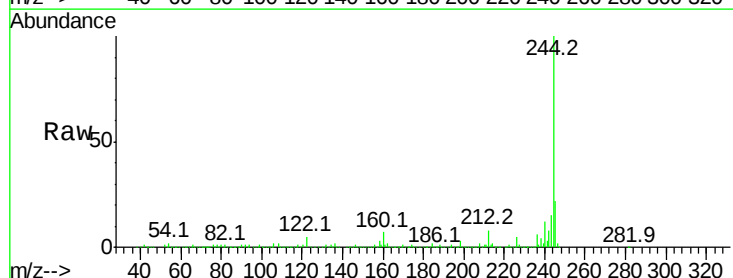
Tgt Ion:244 Resp: 1764769

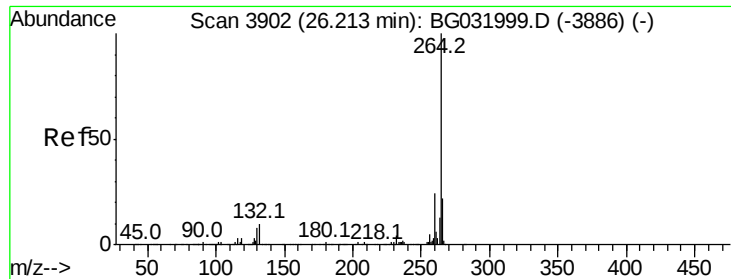
Ion Ratio Lower Upper

244 100

212 8.0 5.8 8.8

122 5.5 7.0 10.4#

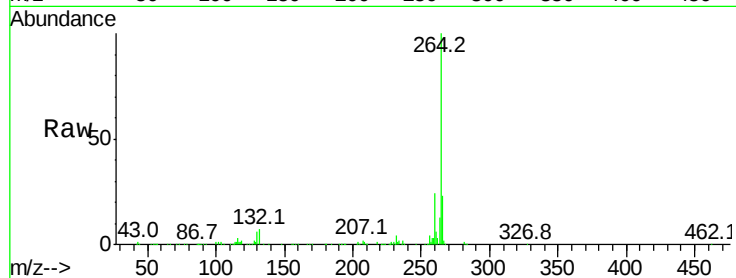




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 26.10 min Scan# 3883  
 Delta R.T. -0.01 min  
 Lab File: BG032294.D  
 Acq: 25 Jan 2018 12:40

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 17.4  | 26.0  |
| 265     | 22.5  | 17.7  | 26.5  |



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

