

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102017\  
 Data File : BG029387.D  
 Acq On : 21 Oct 2017 12:05  
 Operator : SJ/JU  
 Sample : I6018-03  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Oct 21 22:36:18 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG101617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 16 17:32:15 2017  
 Response via : Initial Calibration

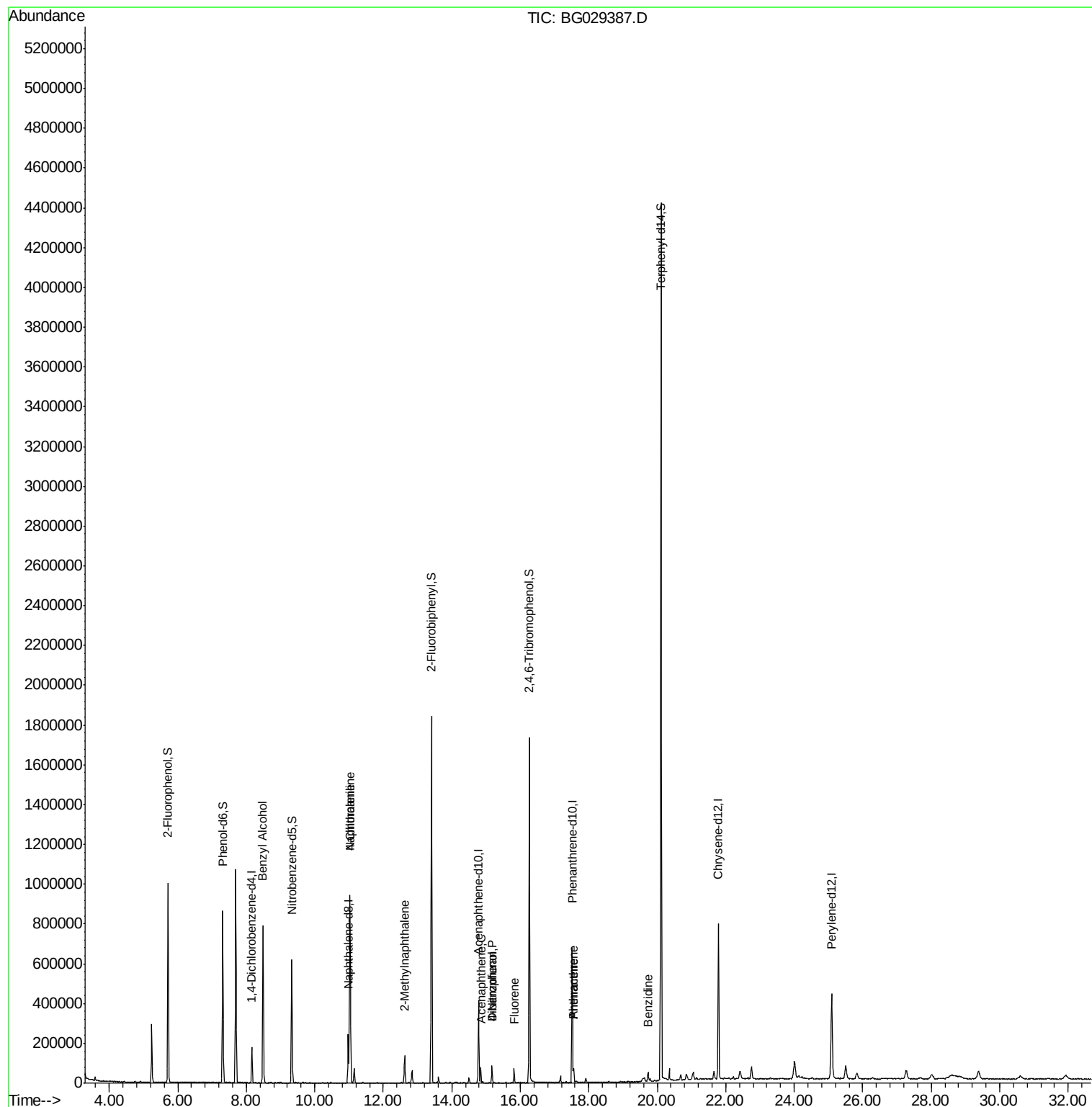
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.17  | 152  | 52050    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 10.98 | 136  | 223529   | 20.00  | ng    | -0.01       |
| 38) Acenaphthene-d10        | 14.78 | 164  | 148681   | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10        | 17.52 | 188  | 419417   | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12            | 21.78 | 240  | 488495   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12            | 25.09 | 264  | 493579   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.72  | 112  | 446353   | 143.26 | ng    | 0.00        |
| 7) Phenol-d6                | 7.31  | 99   | 519441   | 118.77 | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 9.33  | 82   | 372877   | 106.01 | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 16.26 | 330  | 370413   | 192.96 | ng    | -0.01       |
| 44) 2-Fluorobiphenyl        | 13.41 | 172  | 1005762  | 99.21  | ng    | -0.01       |
| 78) Terphenyl-d14           | 20.11 | 244  | 2000123  | 93.15  | ng    | -0.01       |
| Target Compounds            |       |      |          |        |       |             |
| 15) Benzyl Alcohol          | 8.49  | 79   | 6305     | 2.046  | ng    | Qvalue # 33 |
| 31) Naphthalene             | 11.03 | 128  | 818288   | 73.453 | ng    | 98          |
| 33) 4-Chloroaniline         | 11.03 | 127  | 112434   | 23.993 | ng    | # 30        |
| 37) 2-Methylnaphthalene     | 12.62 | 142  | 65955    | 8.123  | ng    | 88          |
| 51) Acenaphthene            | 14.85 | 154  | 28157    | 2.966  | ng    | 95          |
| 54) Dibenzofuran            | 15.17 | 168  | 60745    | 4.483  | ng    | 100         |
| 55) 4-Nitrophenol           | 15.17 | 139  | 20849    | 9.637  | ng    | # 1         |
| 57) Fluorene                | 15.82 | 166  | 33949    | 3.033  | ng    | 93          |
| 70) Phenanthrene            | 17.56 | 178  | 59047    | 2.725  | ng    | 98          |
| 71) Anthracene              | 17.56 | 178  | 59047    | 2.714  | ng    | 98          |
| 76) Benizidine              | 19.73 | 184  | 37837    | 2.565  | ng    | 95          |

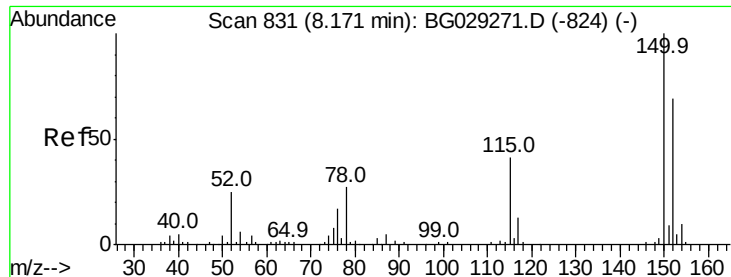
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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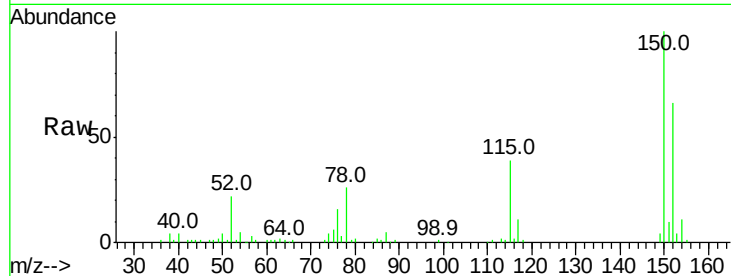


#1

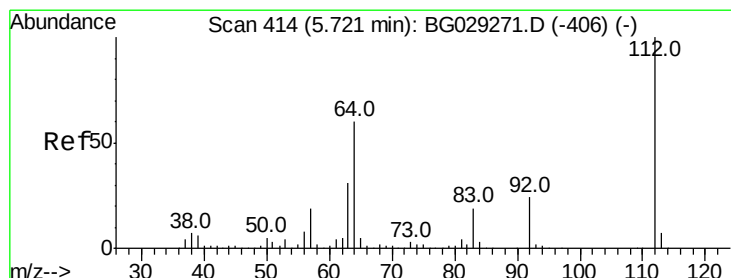
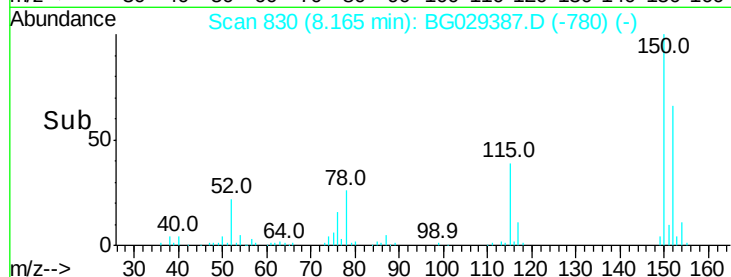
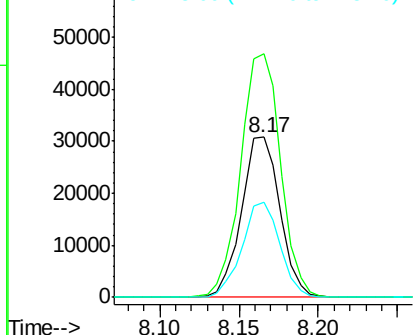
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.17 min Scan# 830  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 52050  
Ion Ratio Lower Upper  
152 100  
150 152.1 126.6 189.8  
115 59.8 53.0 79.4



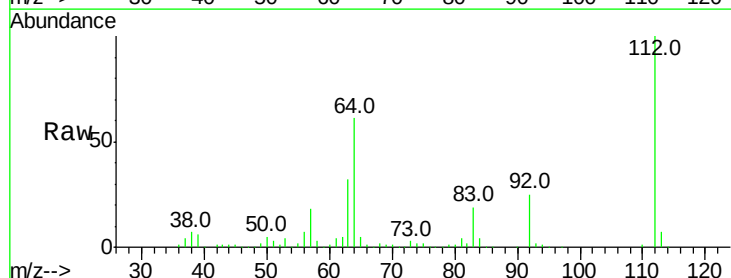
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



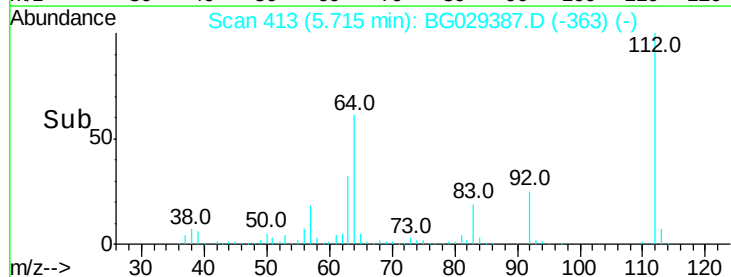
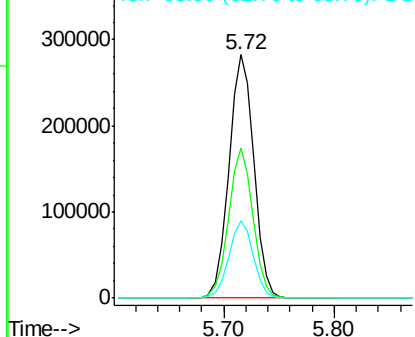
#5

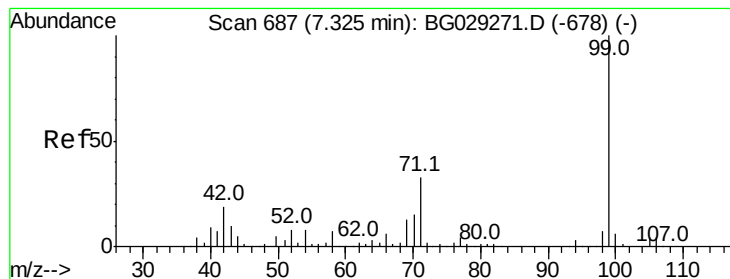
2-Fluorophenol  
Concen: 143.258 ng  
RT: 5.72 min Scan# 413  
Delta R.T. -0.00 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

Tgt Ion:112 Resp: 446353  
Ion Ratio Lower Upper  
112 100  
64 61.5 56.3 84.5  
63 31.6 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 118.772 ng

RT: 7.31 min Scan# 685

Delta R.T. -0.01 min

Lab File: BG029387.D

Acq: 21 Oct 2017 12:05

Instrument :

BNA\_G

ClientSampleId :

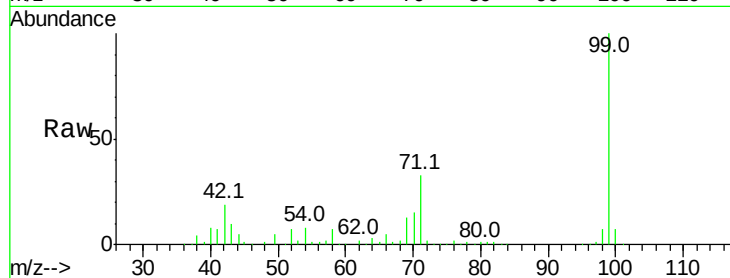
Tot Ion: 99 Resp: 519441

Ion Ratio Lower Upper

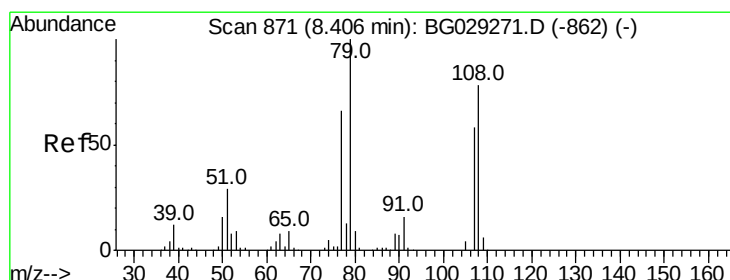
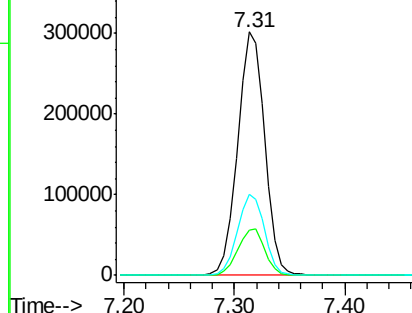
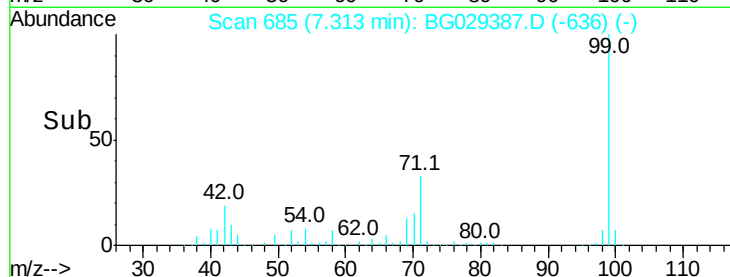
99 100

42 18.8 14.1 21.1

71 33.3 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: 2.046 ng

RT: 8.49 min Scan# 885

Delta R.T. 0.08 min

Lab File: BG029387.D

Acq: 21 Oct 2017 12:05

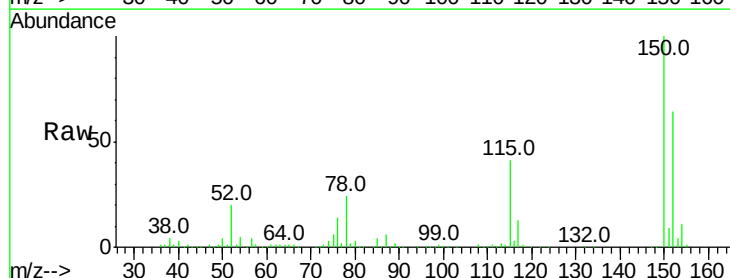
Tgt Ion: 79 Resp: 6305

Ion Ratio Lower Upper

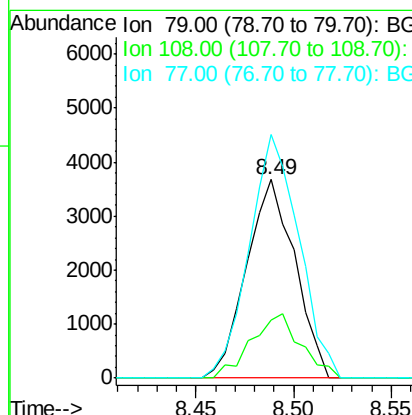
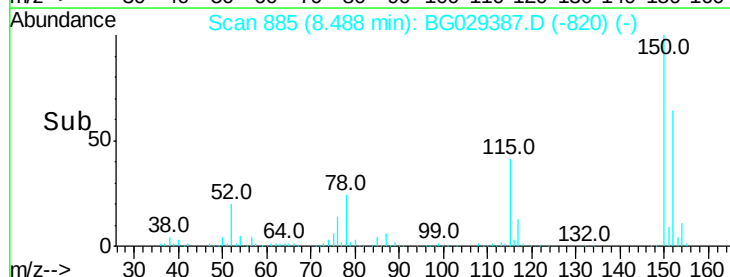
79 100

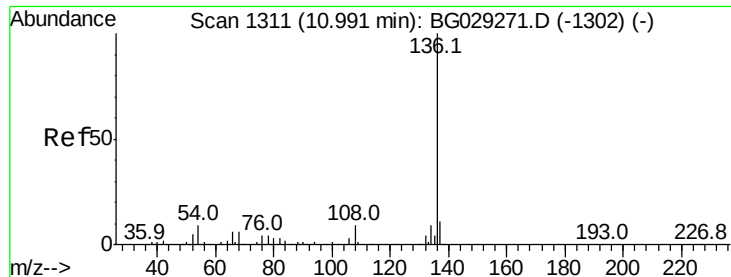
108 29.4 57.2 85.8#

77 122.6 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

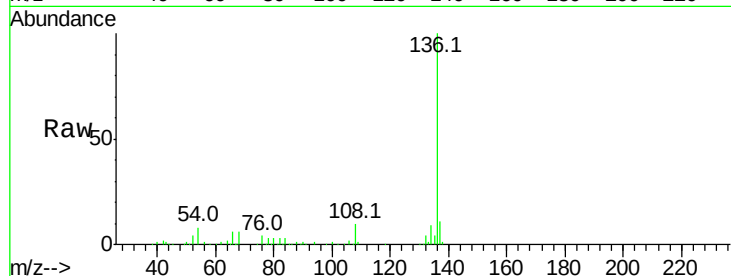




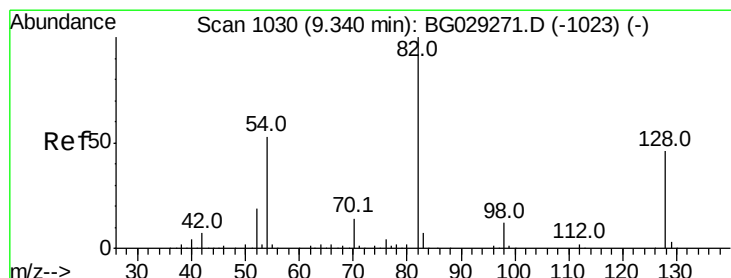
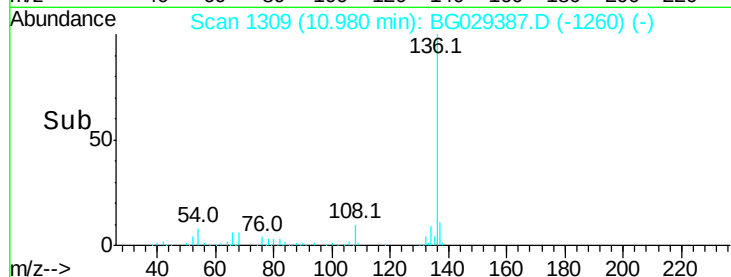
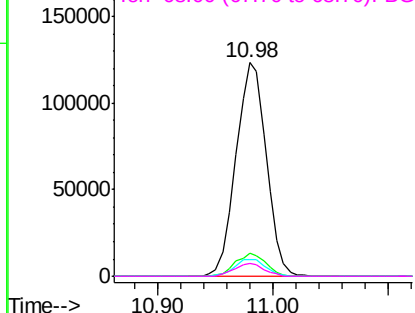
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.98 min Scan# 1309  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 223529    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 10.7  | 9.2 13.8  |
| 54          | 7.9   | 10.3 15.5 |
| 68          | 5.8   | 4.5 6.7   |

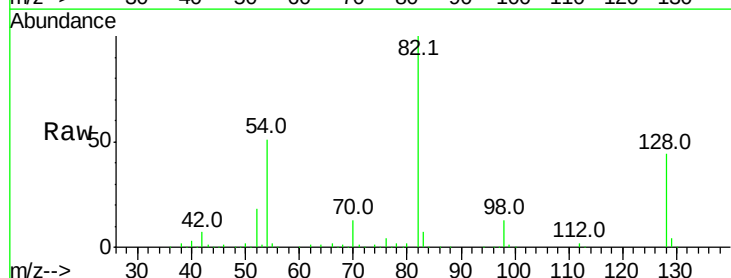


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

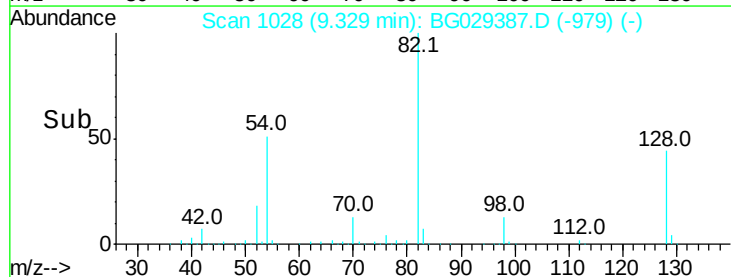
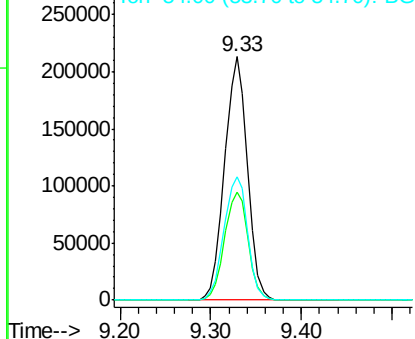


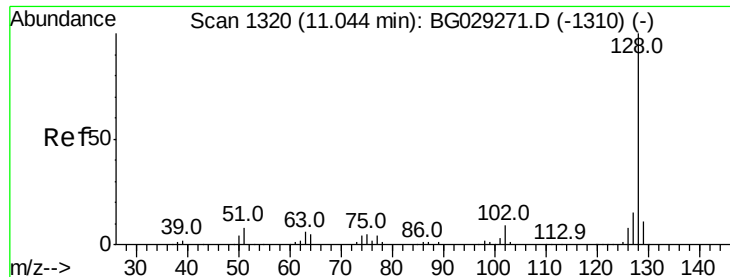
#23  
Nitrobenzene-d5  
Concen: 106.005 ng  
RT: 9.33 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 372877    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 44.1  | 29.7 44.5 |
| 54          | 50.7  | 43.1 64.7 |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

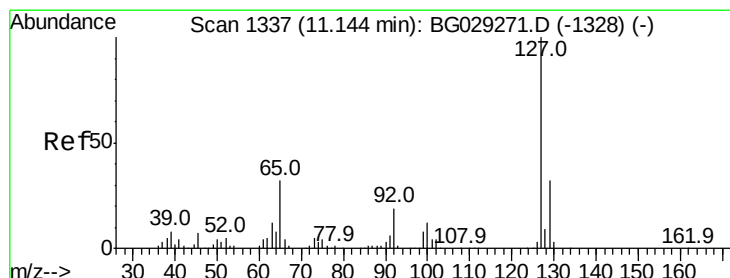
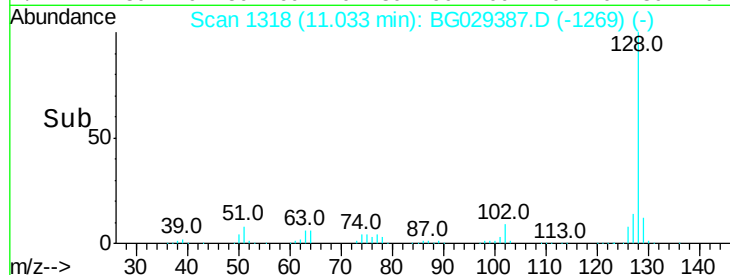
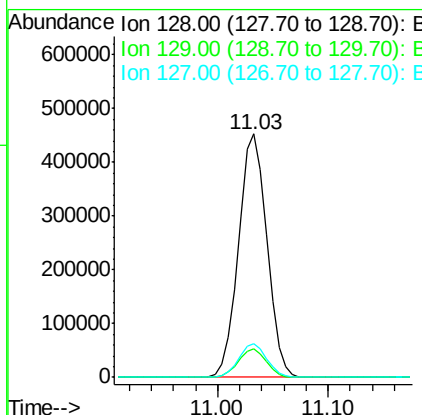
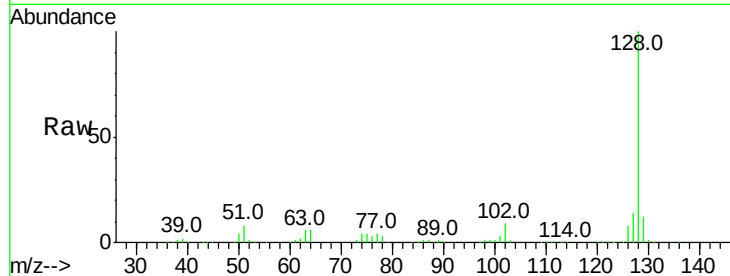




#31  
Naphthalene  
Concen: 73.453 ng  
RT: 11.03 min Scan# 1318  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

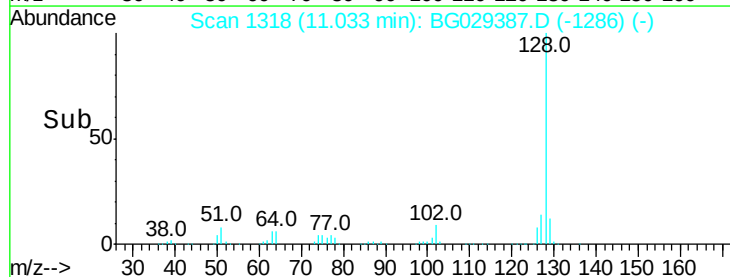
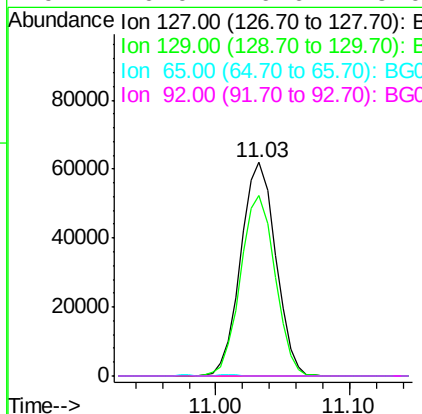
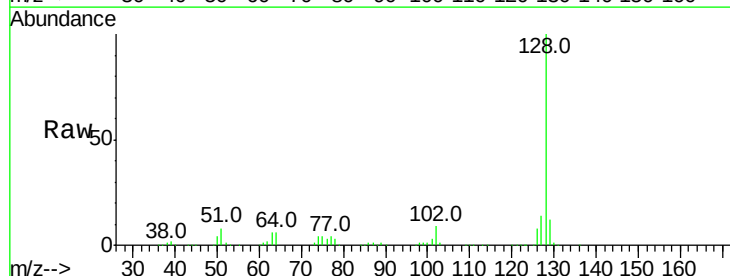
Instrument :  
BNA\_G  
ClientSampleId :

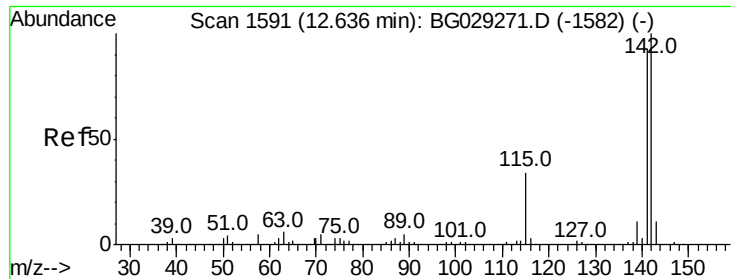
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 128   | Resp: | 818288 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 11.6  | 8.6   | 12.8   |
| 127      | 13.7  | 11.6  | 17.4   |



#33  
4-Chloroaniline  
Concen: 23.993 ng  
RT: 11.03 min Scan# 1318  
Delta R.T. -0.11 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 112434 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 84.7  | 24.0  | 36.0#  |
| 65       | 0.0   | 27.0  | 40.4#  |
| 92       | 0.0   | 16.6  | 25.0#  |

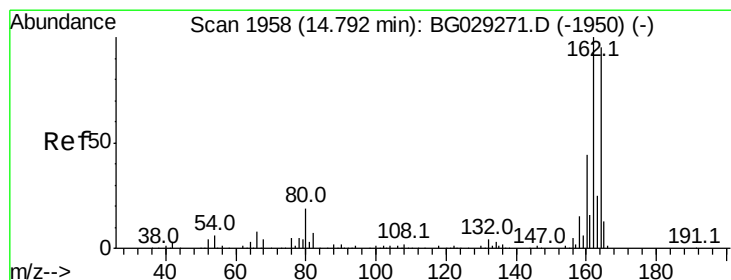
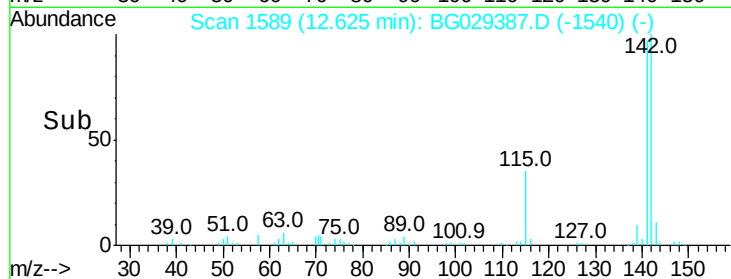
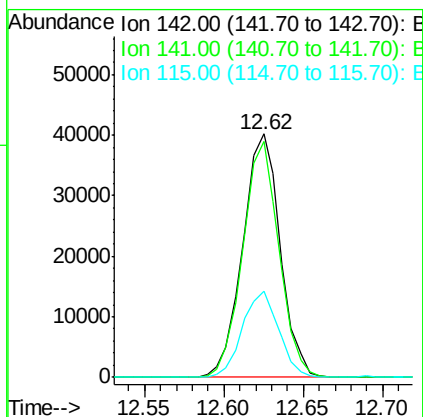
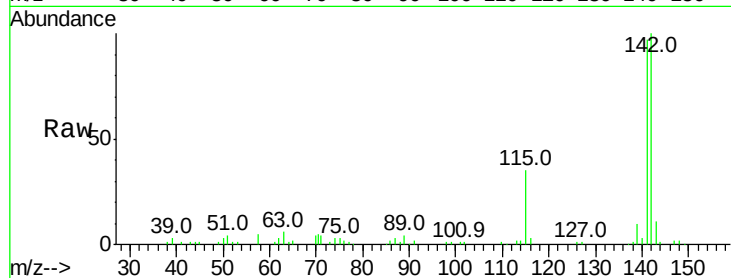




#37  
 2-Methylnaphthalene  
 Concen: 8.123 ng  
 RT: 12.62 min Scan# 1589  
 Delta R.T. -0.01 min  
 Lab File: BG029387.D  
 Acq: 21 Oct 2017 12:05

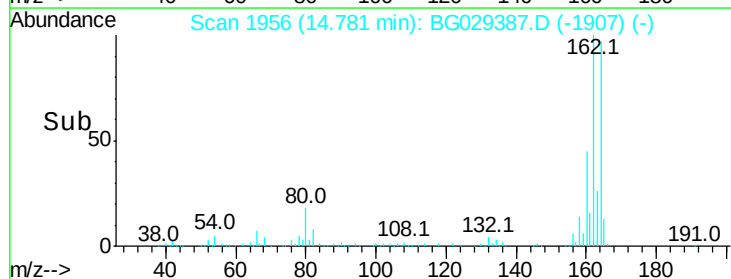
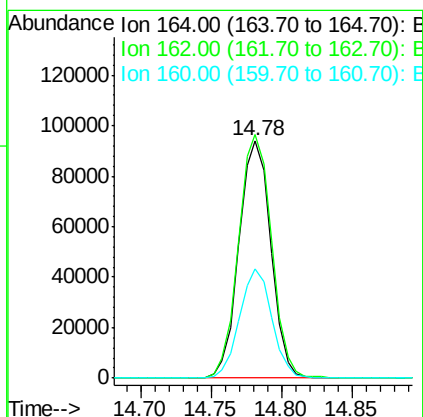
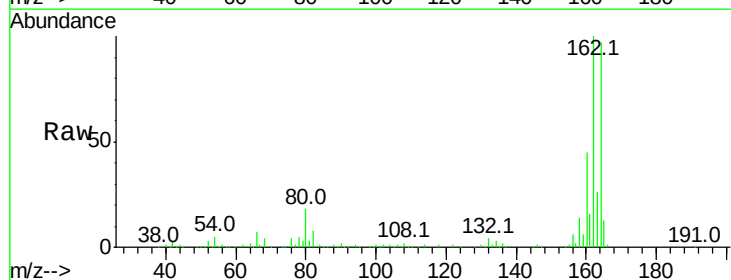
Instrument :  
 BNA\_G  
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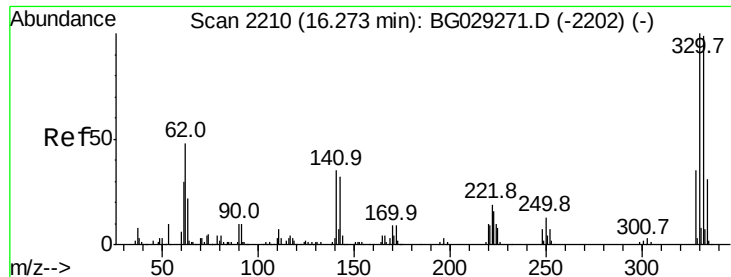
Tot Ion:142 Resp: 65955  
 Ion Ratio Lower Upper  
 142 100  
 141 97.0 67.1 100.7  
 115 35.1 30.7 46.1



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.78 min Scan# 1956  
 Delta R.T. -0.01 min  
 Lab File: BG029387.D  
 Acq: 21 Oct 2017 12:05

Tgt Ion:164 Resp: 148681  
 Ion Ratio Lower Upper  
 164 100  
 162 102.6 78.8 118.2  
 160 46.0 35.4 53.0

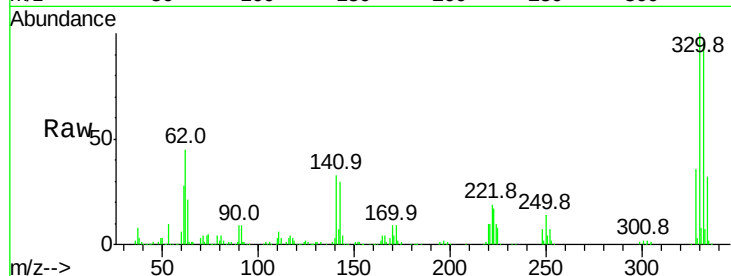




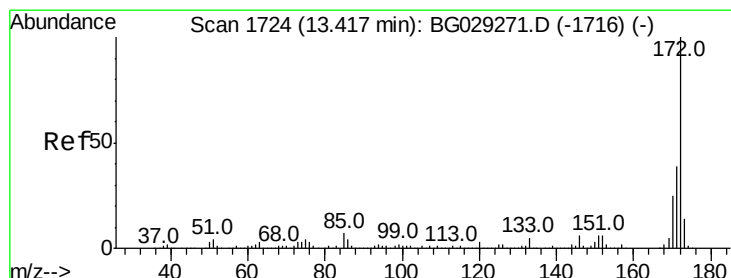
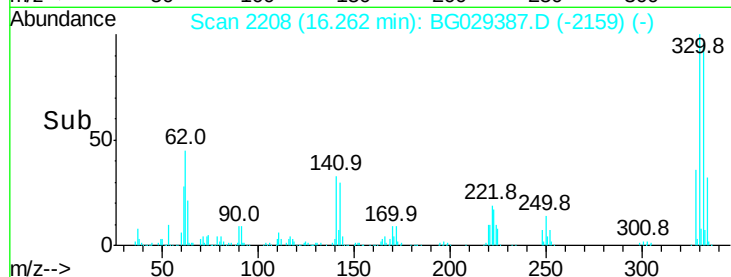
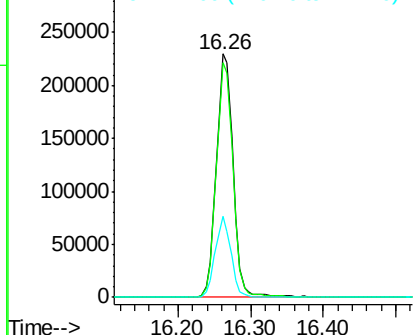
#41  
 2,4,6-Tribromophenol  
 Concen: 192.961 ng  
 RT: 16.26 min Scan# 2208  
 Delta R.T. -0.01 min  
 Lab File: BG029387.D  
 Acq: 21 Oct 2017 12:05

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 77.0  | 115.6 |
| 141     | 31.5  | 25.2  | 37.8  |

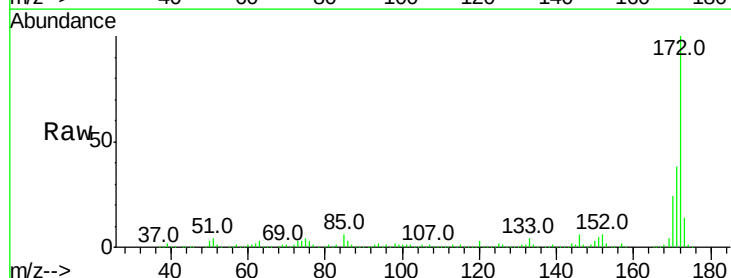


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

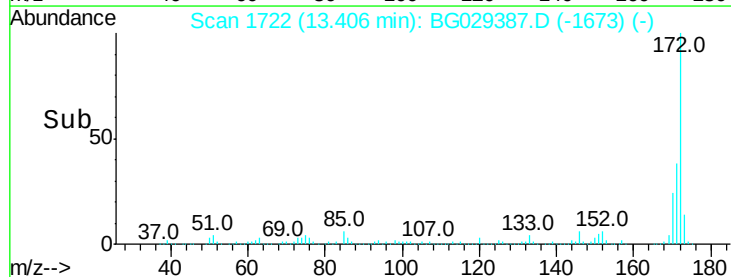
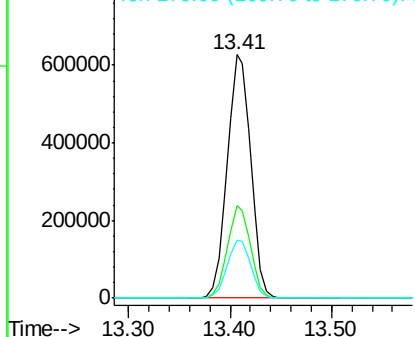


#44  
 2-Fluorobiphenyl  
 Concen: 99.213 ng  
 RT: 13.41 min Scan# 1722  
 Delta R.T. -0.01 min  
 Lab File: BG029387.D  
 Acq: 21 Oct 2017 12:05

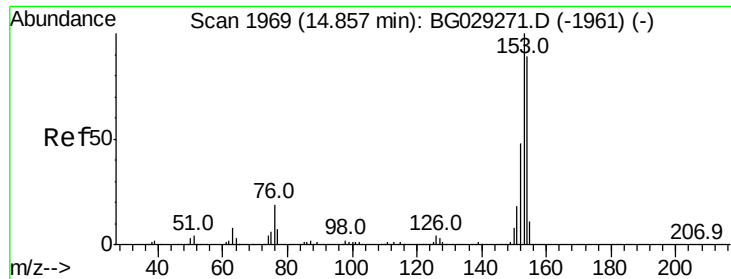
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.1  | 30.0  | 45.0  |
| 170     | 23.9  | 19.5  | 29.3  |



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



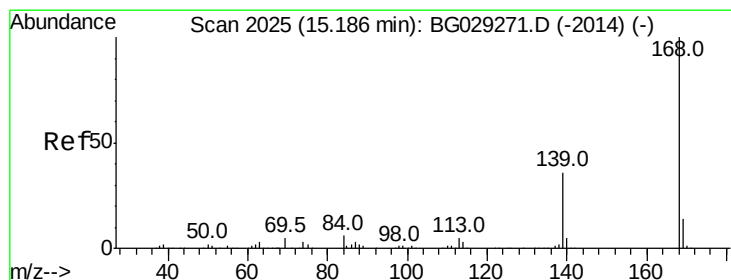
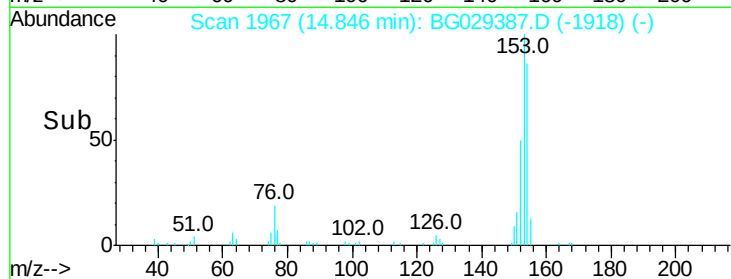
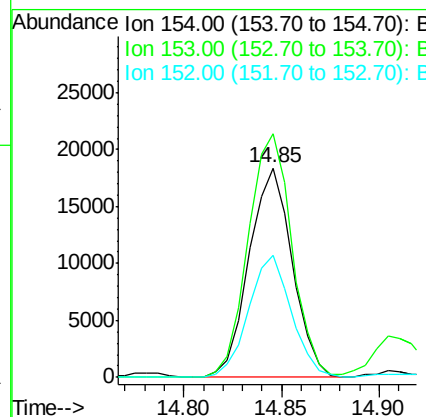
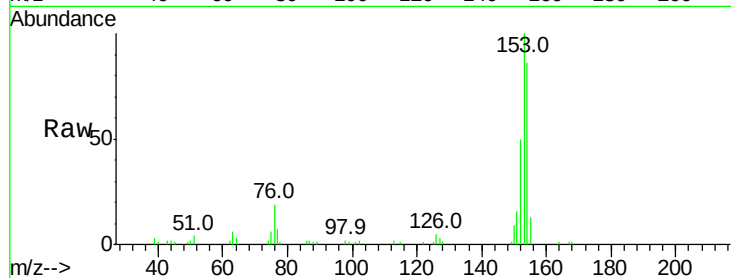




#51  
Acenaphthene  
Concen: 2.966 ng  
RT: 14.85 min Scan# 1967  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

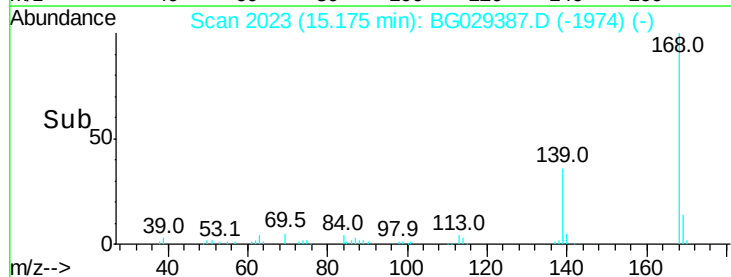
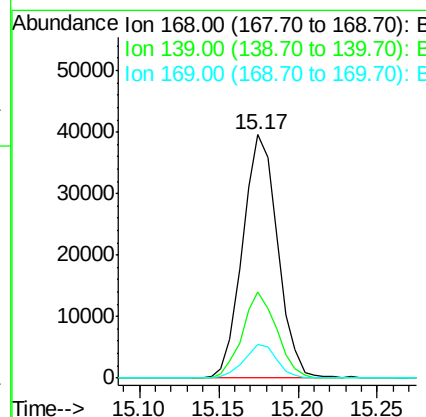
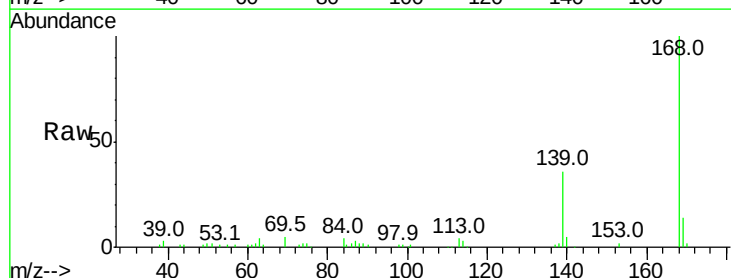
Instrument :  
BNA\_G  
ClientSampled :

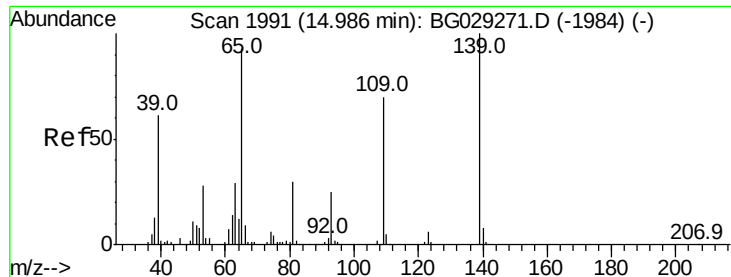
Tot Ion:154 Resp: 28157  
Ion Ratio Lower Upper  
154 100  
153 116.3 90.4 135.6  
152 58.2 41.6 62.4



#54  
Dibenzofuran  
Concen: 4.483 ng  
RT: 15.17 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

Tgt Ion:168 Resp: 60745  
Ion Ratio Lower Upper  
168 100  
139 35.5 28.6 43.0  
169 13.7 11.2 16.8

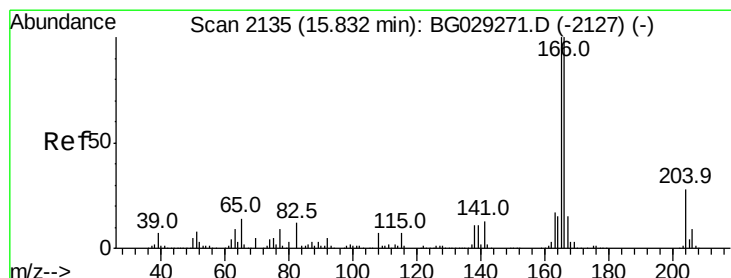
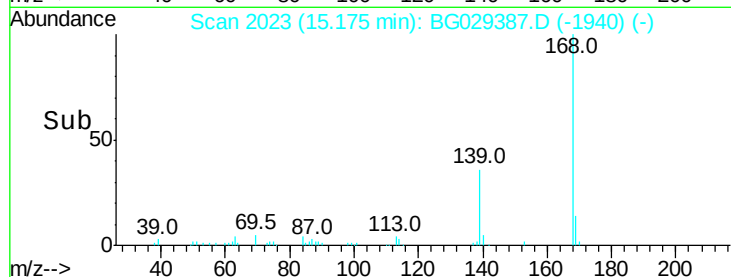
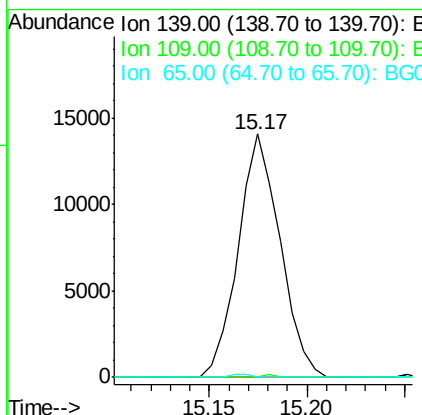
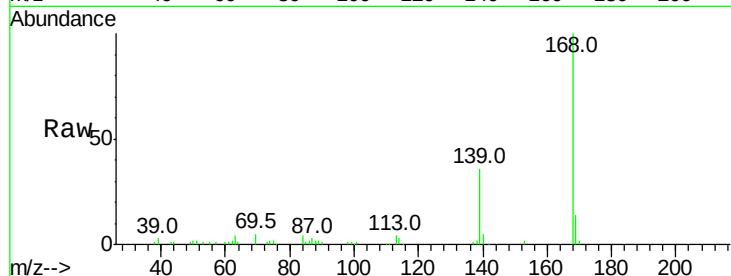




#55  
4-Nitrophenol  
Concen: 9.637 ng  
RT: 15.17 min Scan# 2023  
Delta R.T. 0.19 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

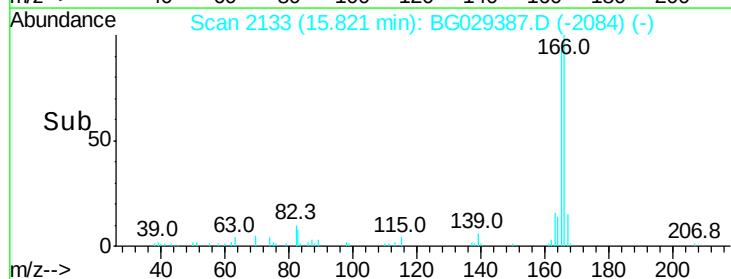
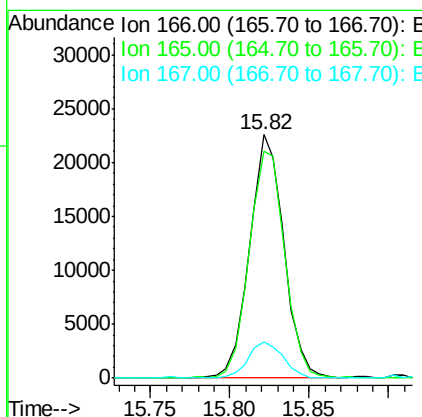
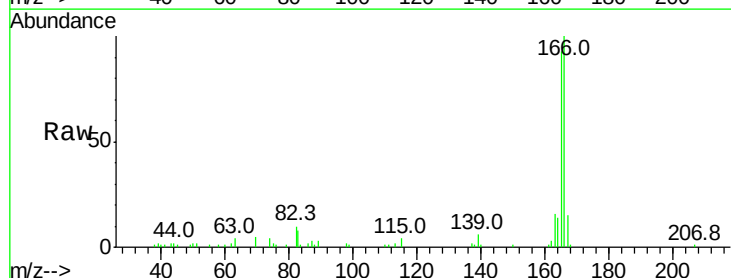
Instrument :  
BNA\_G  
ClientSampleId :

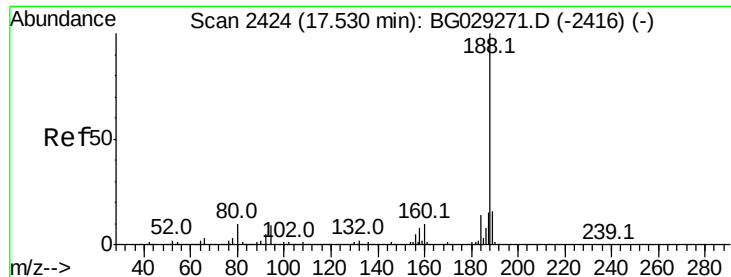
Tot Ion:139 Resp: 20849  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#



#57  
Fluorene  
Concen: 3.033 ng  
RT: 15.82 min Scan# 2133  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

Tgt Ion:166 Resp: 33949  
Ion Ratio Lower Upper  
166 100  
165 93.0 80.6 121.0  
167 14.7 10.4 15.6

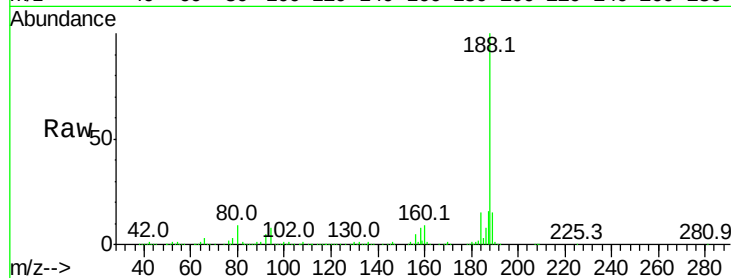




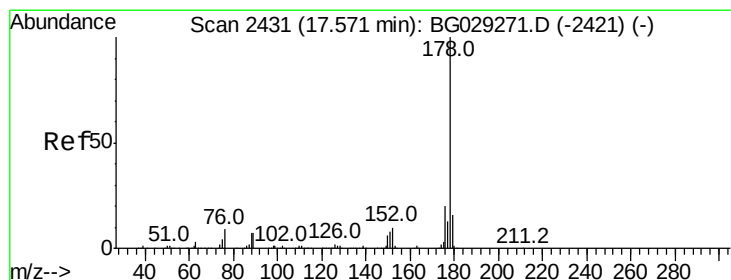
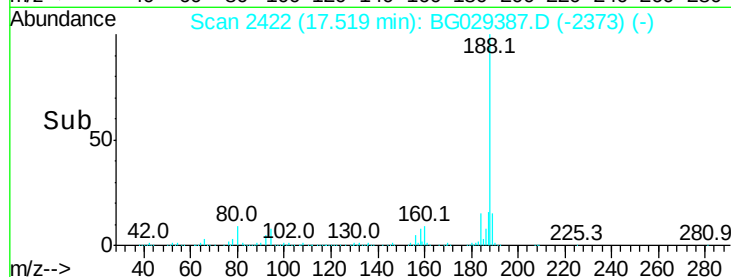
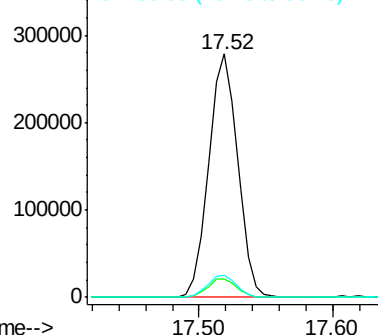
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.52 min Scan# 2422  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:188 Resp: 419417  
Ion Ratio Lower Upper  
188 100  
94 7.6 6.9 10.3  
80 9.1 7.7 11.5

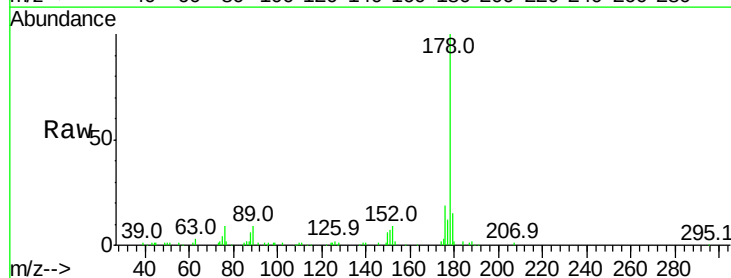


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

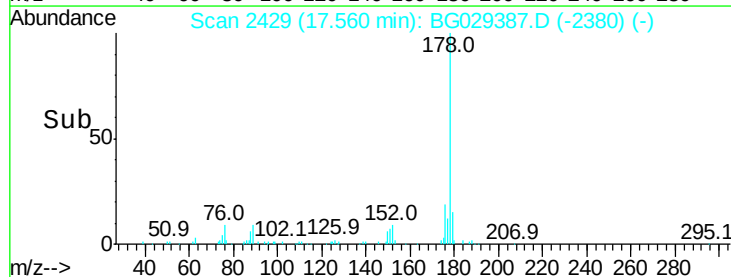
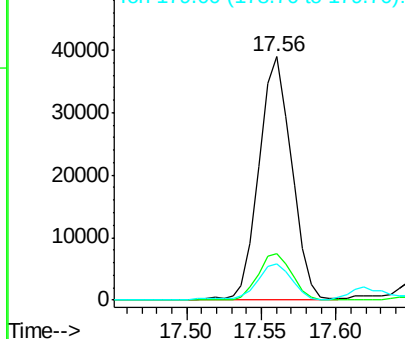


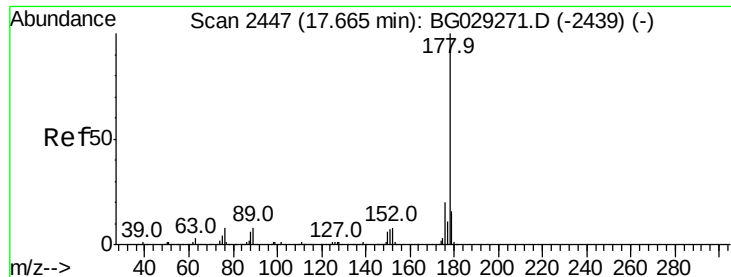
#70  
Phenanthrene  
Concen: 2.725 ng  
RT: 17.56 min Scan# 2429  
Delta R.T. -0.01 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

Tgt Ion:178 Resp: 59047  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.7 23.5  
179 14.8 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 2.714 ng

RT: 17.56 min Scan# 2429

Delta R.T. -0.11 min

Lab File: BG029387.D

Acq: 21 Oct 2017 12:05

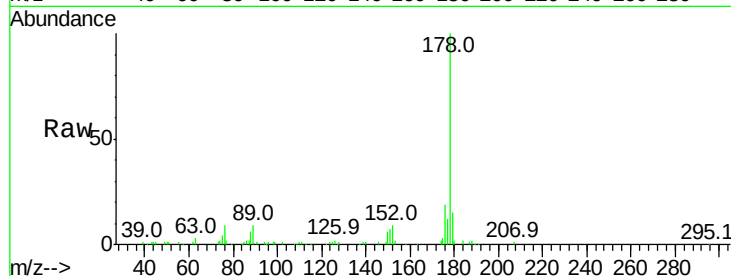
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:178 Resp: 59047

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.9  | 16.0  | 24.0  |
| 179 | 14.8  | 12.5  | 18.7  |

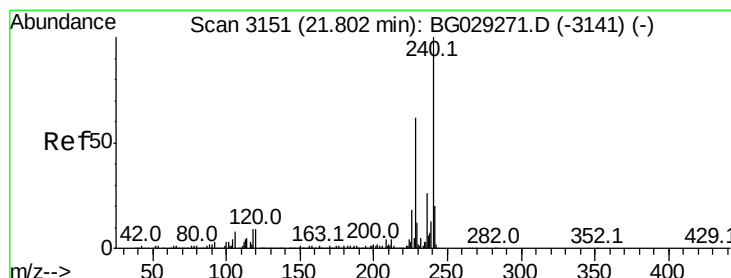
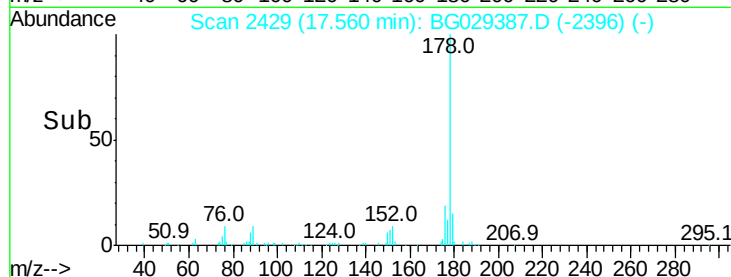
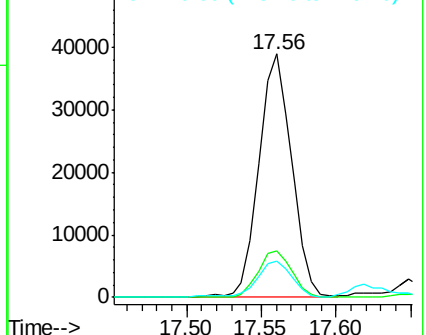


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.78 min Scan# 3148

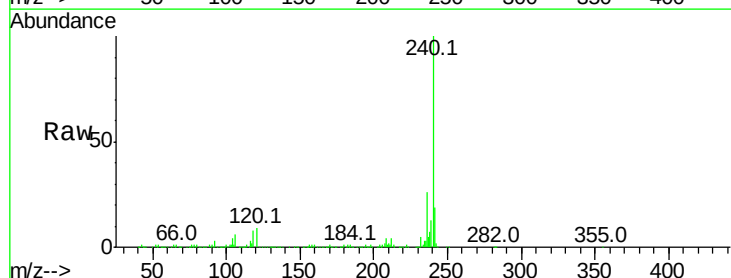
Delta R.T. -0.02 min

Lab File: BG029387.D

Acq: 21 Oct 2017 12:05

Tgt Ion:240 Resp: 488495

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 9.3   | 6.8   | 10.2  |
| 236 | 26.2  | 20.9  | 31.3  |

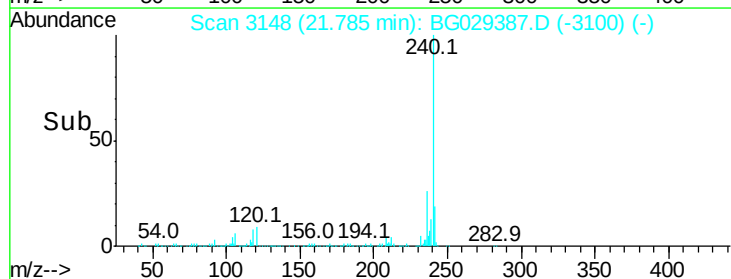
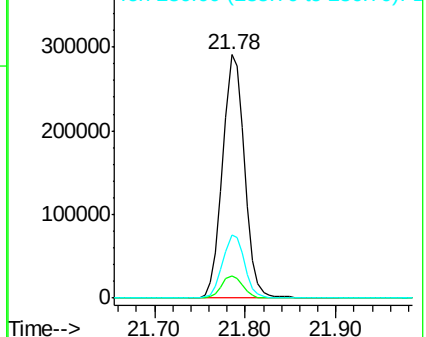


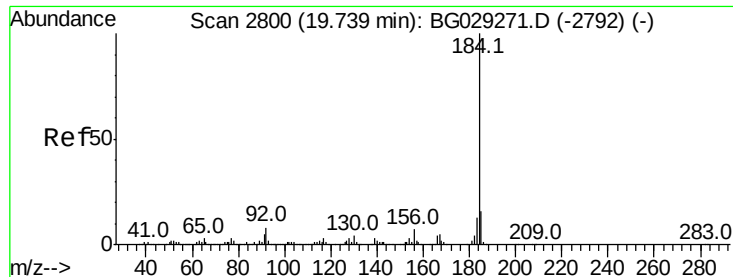
Abundance

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: 2.565 ng

RT: 19.73 min Scan# 2799

Delta R.T. -0.01 min

Lab File: BG029387.D

Acq: 21 Oct 2017 12:05

Instrument :

BNA\_G

ClientSampleId :

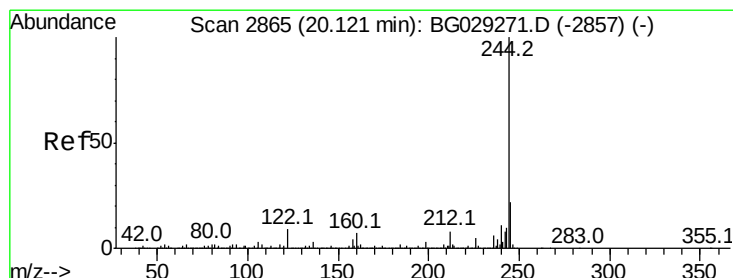
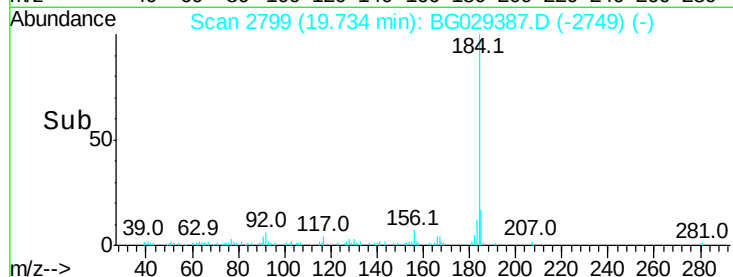
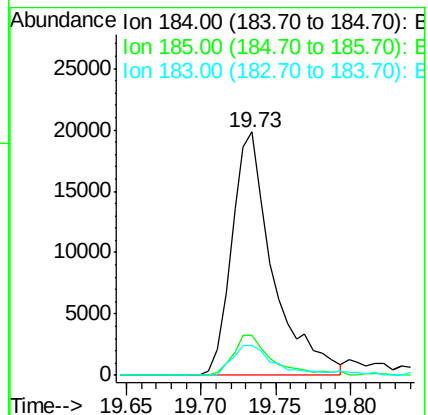
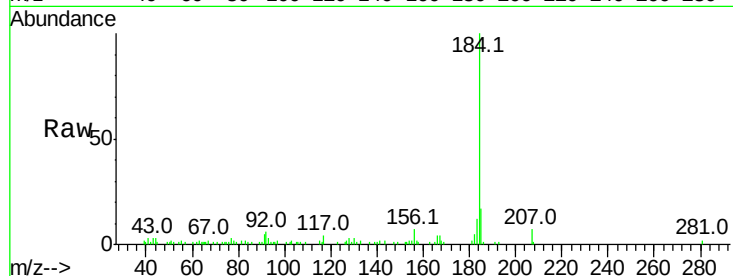
Tot Ion:184 Resp: 37837

Ion Ratio Lower Upper

184 100

185 16.6 11.1 16.7

183 12.1 10.6 16.0



#78

Terphenyl-d14

Concen: 93.146 ng

RT: 20.11 min Scan# 2863

Delta R.T. -0.01 min

Lab File: BG029387.D

Acq: 21 Oct 2017 12:05

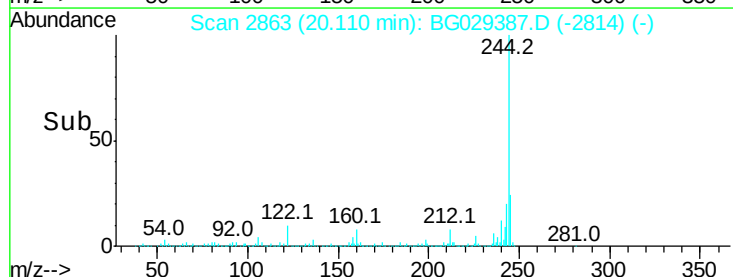
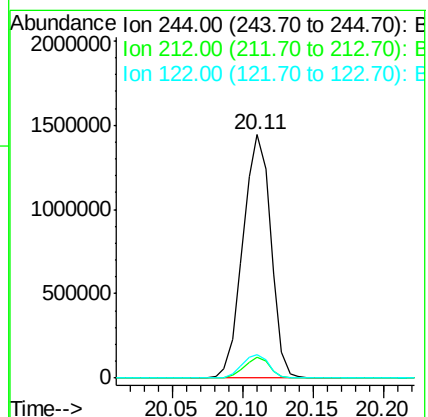
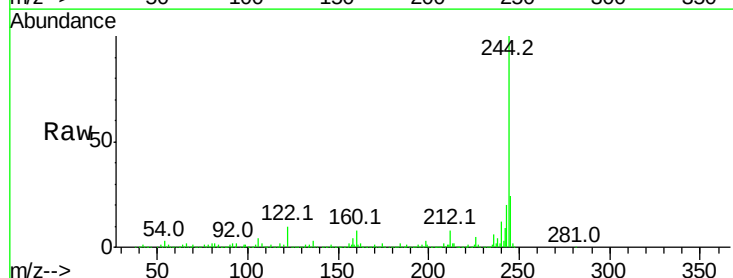
Tgt Ion:244 Resp: 2000123

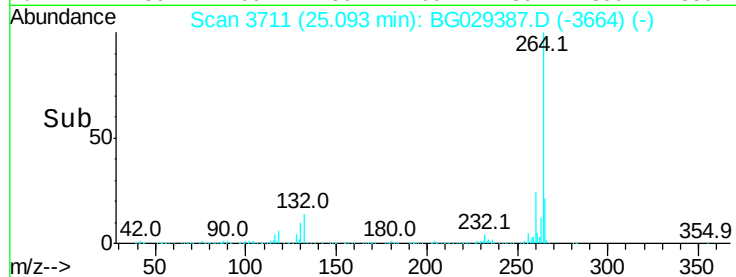
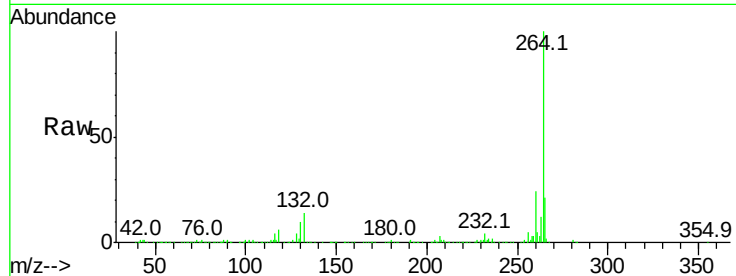
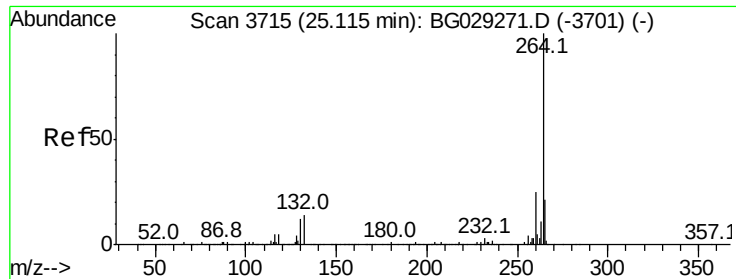
Ion Ratio Lower Upper

244 100

212 8.4 5.8 8.8

122 9.8 7.0 10.4





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.09 min Scan# 3711  
Delta R.T. -0.02 min  
Lab File: BG029387.D  
Acq: 21 Oct 2017 12:05

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 17.4  | 26.0  |
| 265     | 20.9  | 17.7  | 26.5  |

