

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG020320\  
 Data File : BG044274.D  
 Acq On : 3 Feb 2020 16:04  
 Operator : CG/JU  
 Sample : L1345-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 04 00:29:24 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 30 16:05:09 2020  
 Response via : Initial Calibration

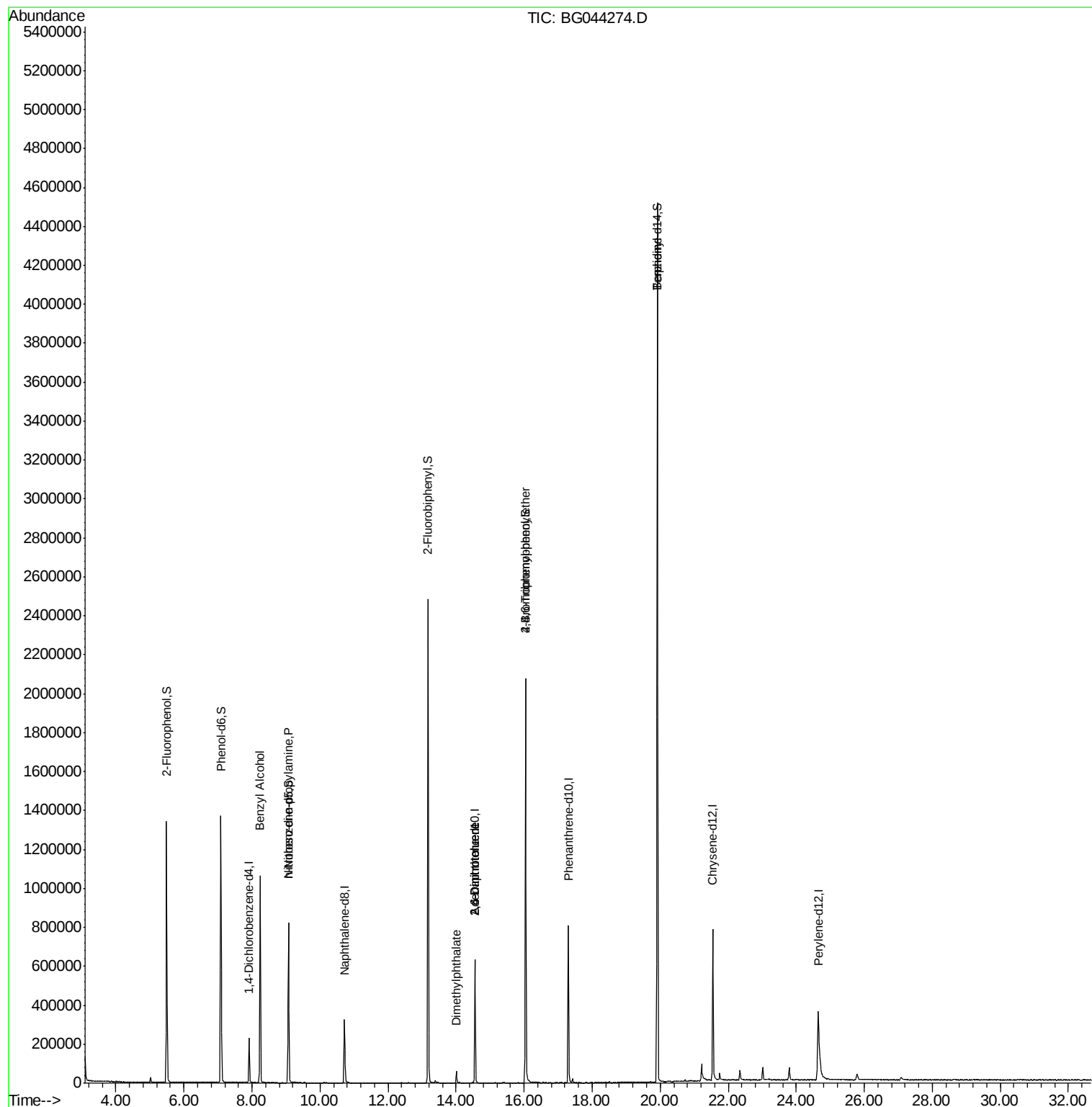
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.92  | 152  | 68445    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.72 | 136  | 308203   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.56 | 164  | 233838   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.30 | 188  | 533887   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.54 | 240  | 479591   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.64 | 264  | 513918   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 651738   | 168.05 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.08  | 99   | 894202   | 171.70 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.07  | 82   | 544901   | 99.81  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.04 | 330  | 407677   | 148.51 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.18 | 172  | 1326631  | 95.00  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.92 | 244  | 2121083  | 90.97  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.24  | 79   | 8353     | 2.265  | ng    | # 44     |
| 19) n-Nitroso-di-n-propylamine | 9.07  | 70   | 69301    | 19.967 | ng    | # 75     |
| 50) Dimethylphthalate          | 14.01 | 163  | 52156    | 3.103  | ng    | # 98     |
| 51) 2,6-Dinitrotoluene         | 14.56 | 165  | 31129    | 8.306  | ng    | # 31     |
| 57) 2,4-Dinitrotoluene         | 14.56 | 165  | 31129    | 5.926  | ng    | # 28     |
| 67) 4-Bromophenyl-phenylether  | 16.04 | 248  | 27291    | 4.692  | ng    | # 1      |
| 77) Benzidine                  | 19.92 | 184  | 36236    | 2.724  | ng    | # 91     |

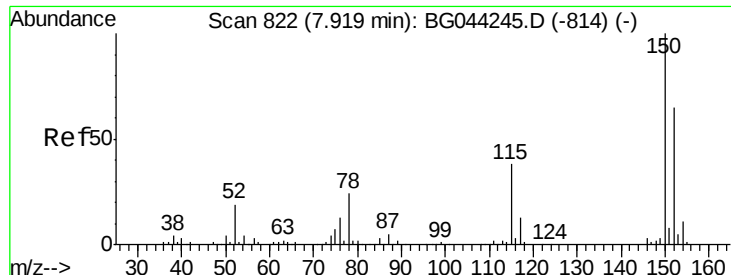
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 30 16:05:09 2020  
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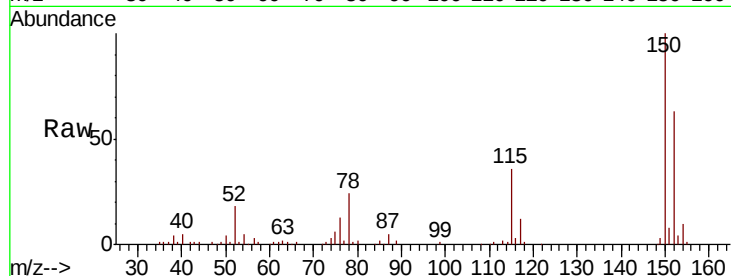


#1

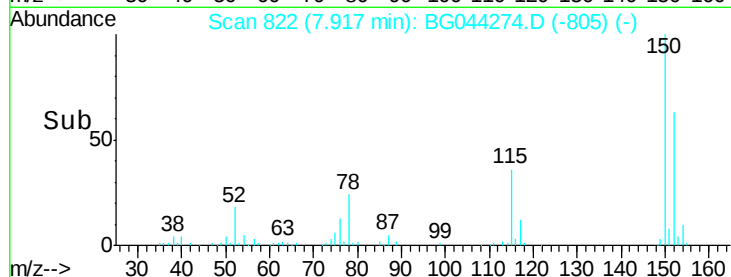
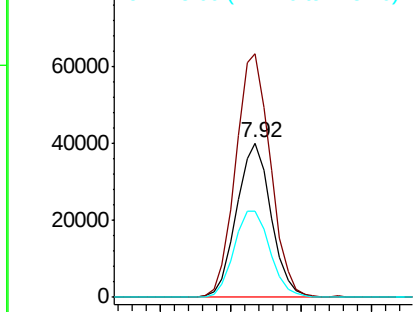
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.92 min Scan# 822  
Delta R.T. -0.00 min  
Lab File: BG044274.D  
Acq: 3 Feb 2020 16:04

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 68445  
Ion Ratio Lower Upper  
152 100  
150 157.6 122.6 183.8  
115 56.0 46.0 69.0



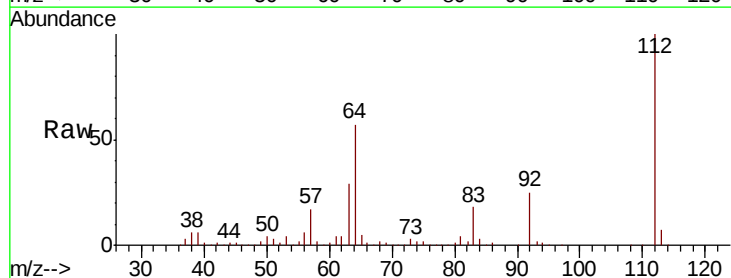
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



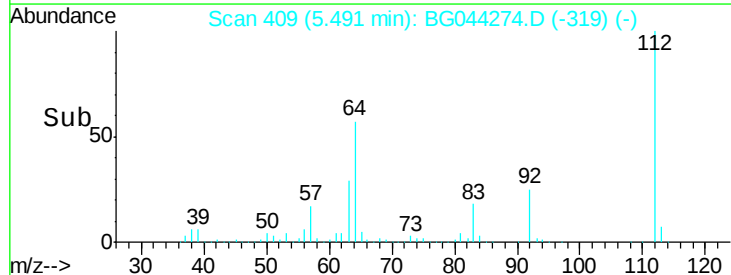
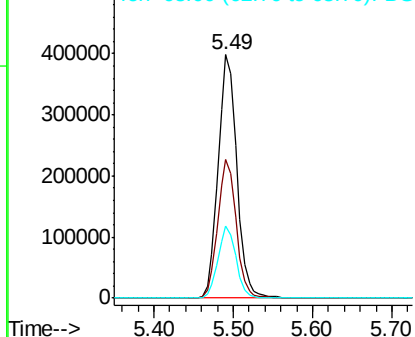
#5

2-Fluorophenol  
Concen: 168.050 ng  
RT: 5.49 min Scan# 409  
Delta R.T. -0.00 min  
Lab File: BG044274.D  
Acq: 3 Feb 2020 16:04

Tgt Ion:112 Resp: 651738  
Ion Ratio Lower Upper  
112 100  
64 57.2 45.4 68.2  
63 29.4 22.9 34.3



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: 171.701 ng

RT: 7.08 min Scan# 680

Delta R.T. -0.00 min

Lab File: BG044274.D

Acq: 3 Feb 2020 16:04

Instrument :

BNA\_G

ClientSampleId :

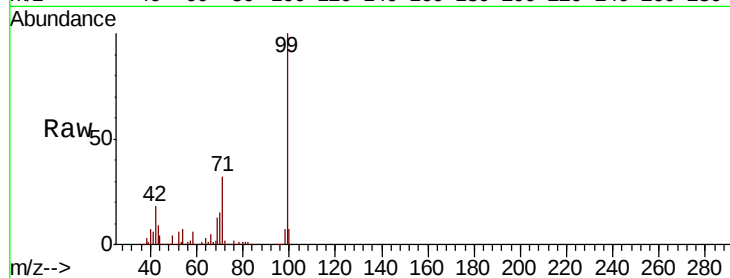
Tot Ion: 99 Resp: 894202

Ion Ratio Lower Upper

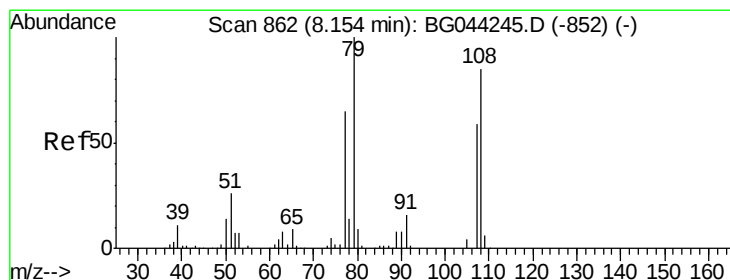
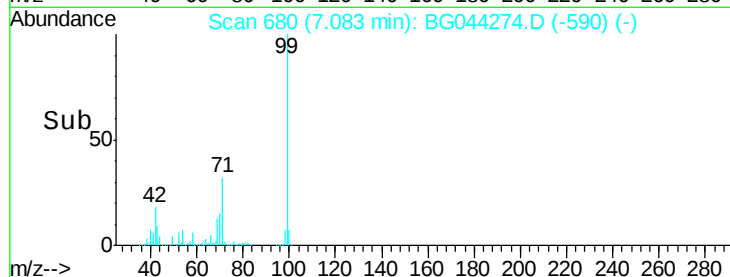
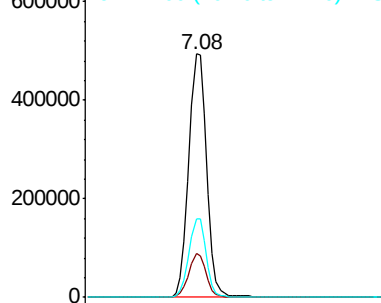
99 100

42 17.8 13.8 20.6

71 32.4 25.5 38.3



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: 2.265 ng

RT: 8.24 min Scan# 877

Delta R.T. 0.09 min

Lab File: BG044274.D

Acq: 3 Feb 2020 16:04

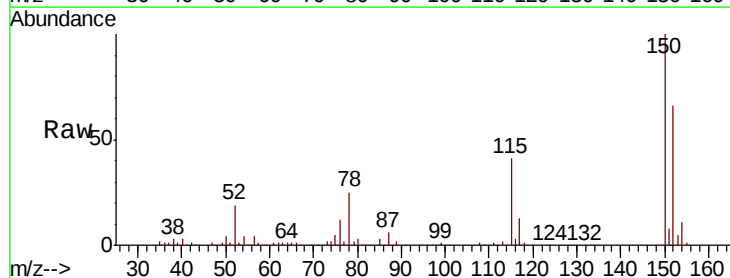
Tgt Ion: 79 Resp: 8353

Ion Ratio Lower Upper

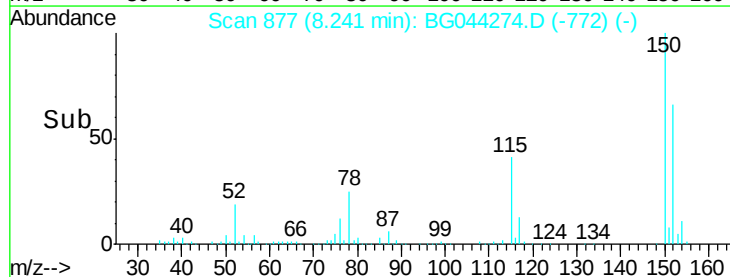
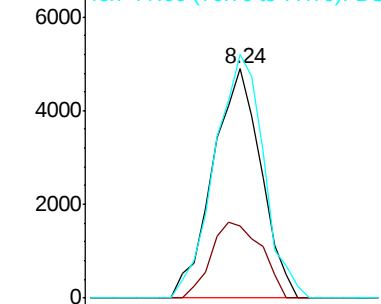
79 100

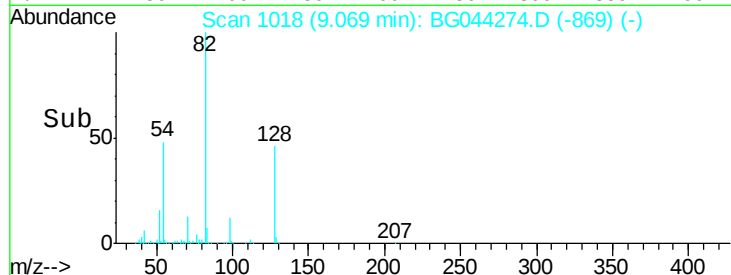
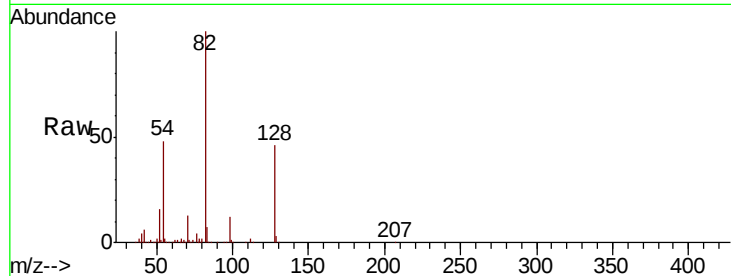
108 31.2 68.3 102.5#

77 106.2 51.8 77.8#



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

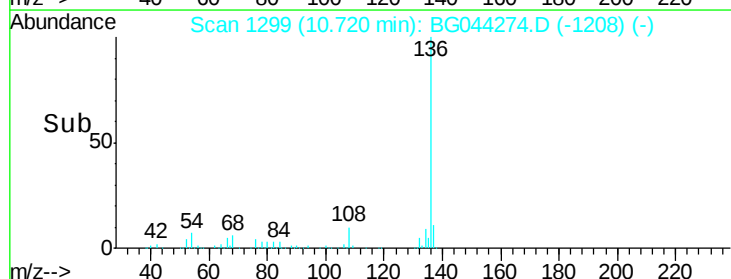
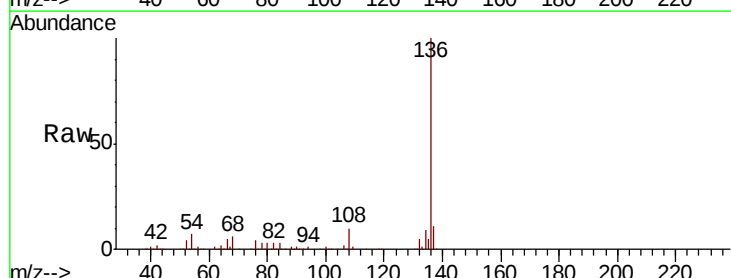
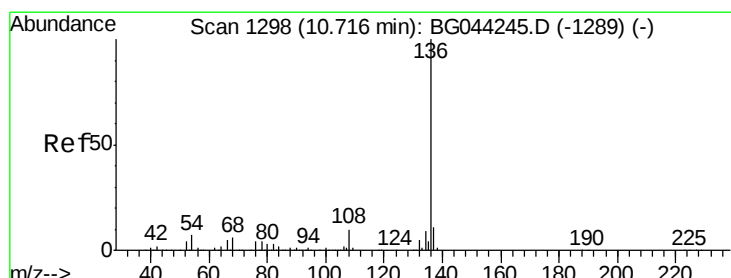
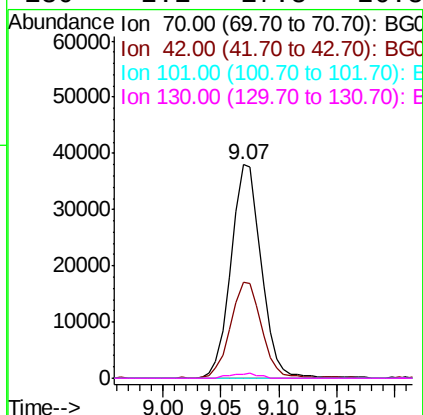




#19  
n-Nitroso-di-n-propylamine  
Concen: 19.967 ng  
RT: 9.07 min Scan# 1018  
Delta R.T. 0.34 min  
Lab File: BG044274.D  
Acq: 3 Feb 2020 16:04

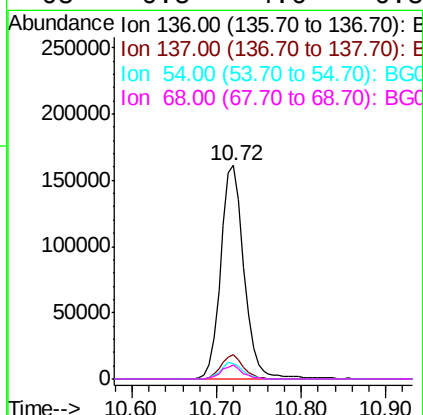
Instrument :  
BNA\_G  
ClientSampled :

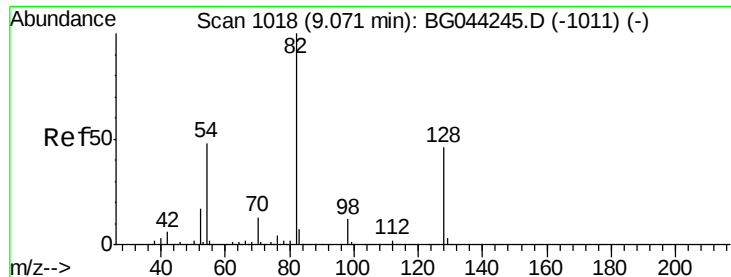
Tot Ion: 70 Resp: 69301  
Ion Ratio Lower Upper  
70 100  
42 44.9 46.2 69.2#  
101 0.0 8.4 12.6#  
130 2.1 17.8 26.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.72 min Scan# 1299  
Delta R.T. 0.00 min  
Lab File: BG044274.D  
Acq: 3 Feb 2020 16:04

Tgt Ion: 136 Resp: 308203  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.8 13.2  
54 7.5 5.8 8.8  
68 6.5 4.6 6.8

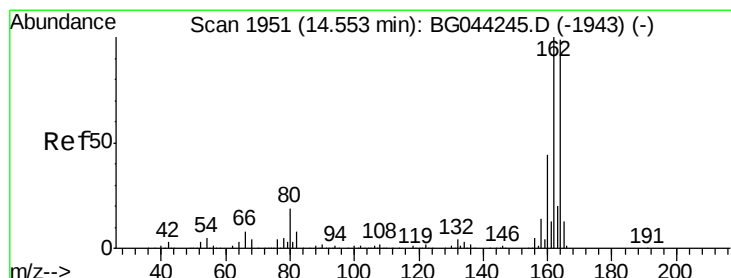
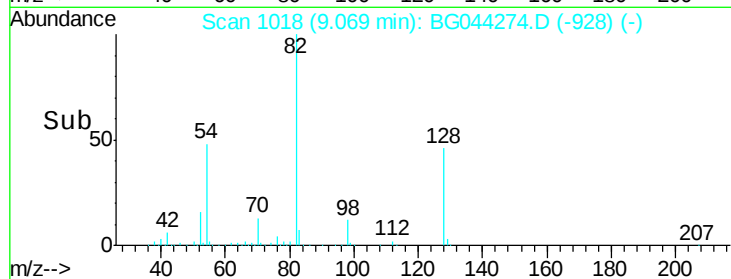
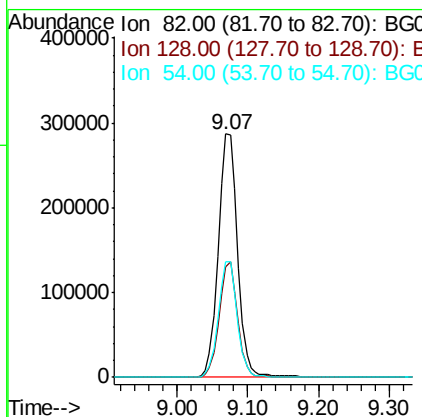
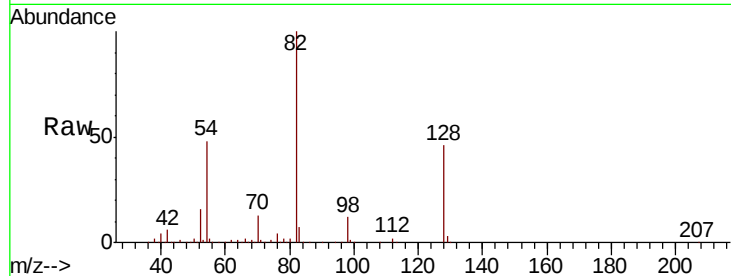




#23  
 Nitrobenzene-d5  
 Concen: 99.814 ng  
 RT: 9.07 min Scan# 1018  
 Delta R.T. -0.00 min  
 Lab File: BG044274.D  
 Acq: 3 Feb 2020 16:04

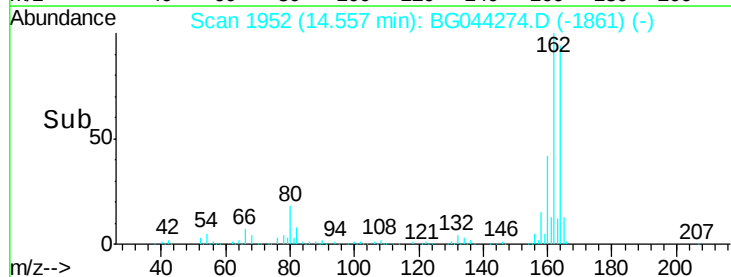
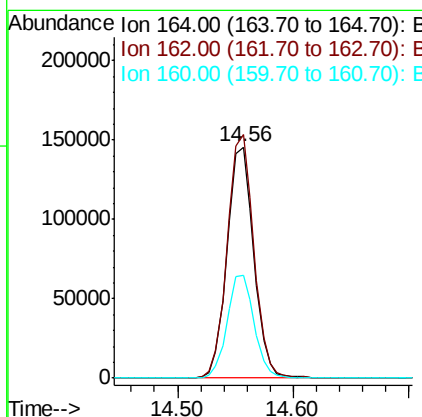
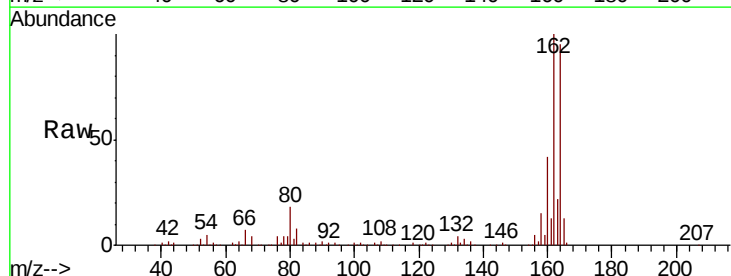
Instrument :  
 BNA\_G  
 ClientSampleId :

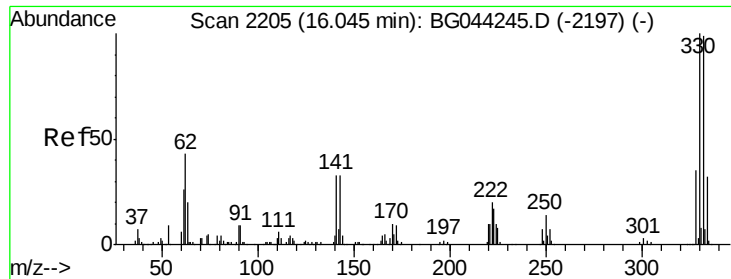
| Tot Ion   | 82   | Resp | 544901 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     |      |      |        |
| Upper     |      |      |        |
| 128       | 45.6 | 36.5 | 54.7   |
| 54        | 47.5 | 38.6 | 58.0   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.56 min Scan# 1952  
 Delta R.T. 0.00 min  
 Lab File: BG044274.D  
 Acq: 3 Feb 2020 16:04

| Tgt Ion                                    | 164   | Resp | 233838 |
|--------------------------------------------|-------|------|--------|
| Ion Ratio <td>100</td> <td></td> <td></td> | 100   |      |        |
| Lower                                      |       |      |        |
| Upper                                      |       |      |        |
| 162                                        | 105.4 | 80.7 | 121.1  |
| 160                                        | 44.5  | 35.3 | 52.9   |





#42

2,4,6-Tribromophenol

Concen: 148.509 ng

RT: 16.04 min Scan# 2205

Delta R.T. -0.00 min

Lab File: BG044274.D

Acq: 3 Feb 2020 16:04

Instrument :

BNA\_G

ClientSampleId :

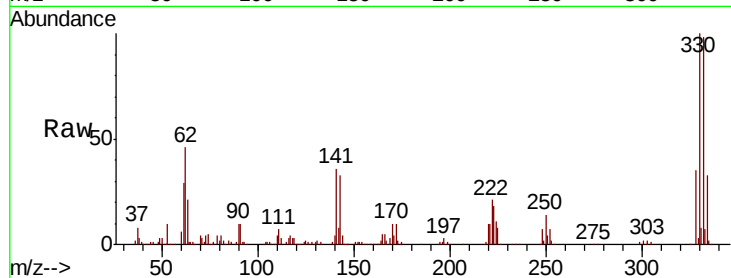
Tot Ion:330 Resp: 407677

Ion Ratio Lower Upper

330 100

332 96.6 77.2 115.8

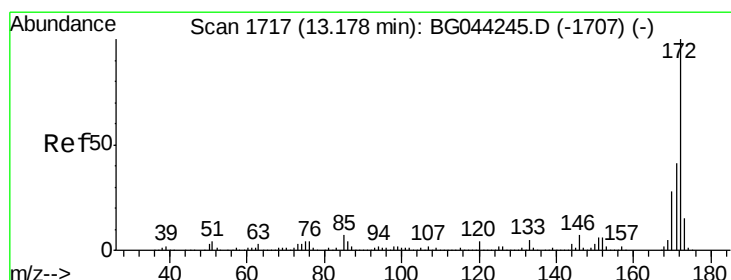
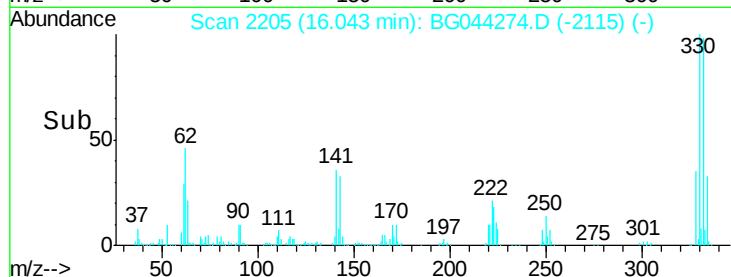
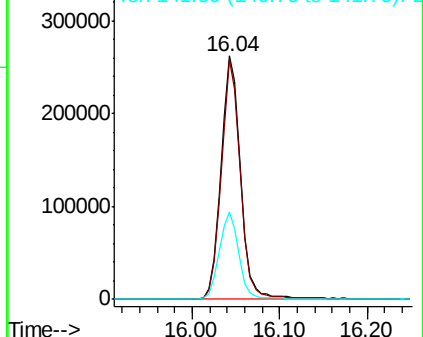
141 36.1 28.3 42.5



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: 95.002 ng

RT: 13.18 min Scan# 1717

Delta R.T. -0.00 min

Lab File: BG044274.D

Acq: 3 Feb 2020 16:04

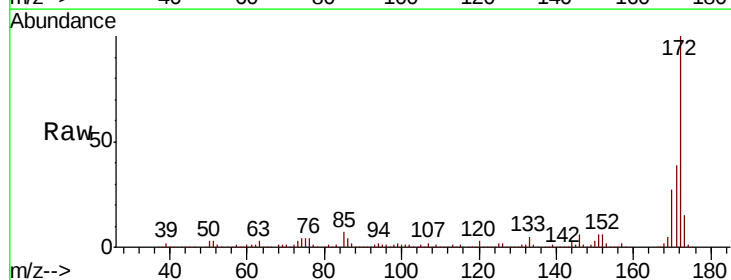
Tgt Ion:172 Resp: 1326631

Ion Ratio Lower Upper

172 100

171 38.9 32.9 49.3

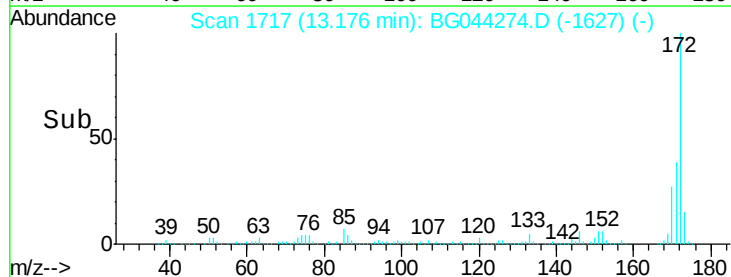
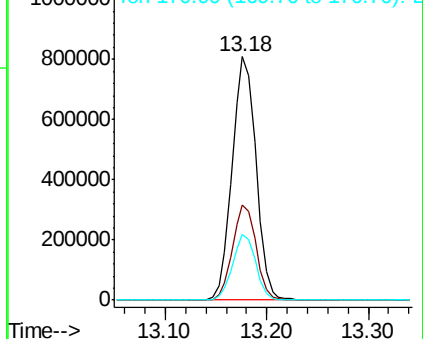
170 26.8 22.0 33.0

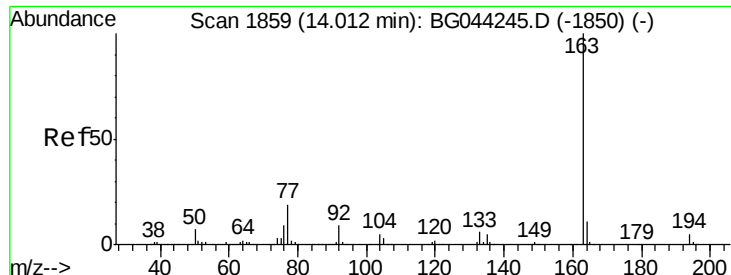


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 3.103 ng

RT: 14.01 min Scan# 1859

Delta R.T. -0.00 min

Lab File: BG044274.D

Acq: 3 Feb 2020 16:04

Instrument :

BNA\_G

ClientSampleId :

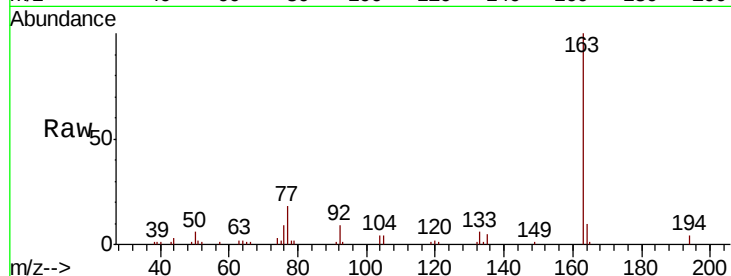
Tot Ion:163 Resp: 52156

Ion Ratio Lower Upper

163 100

194 4.2 3.6 5.4

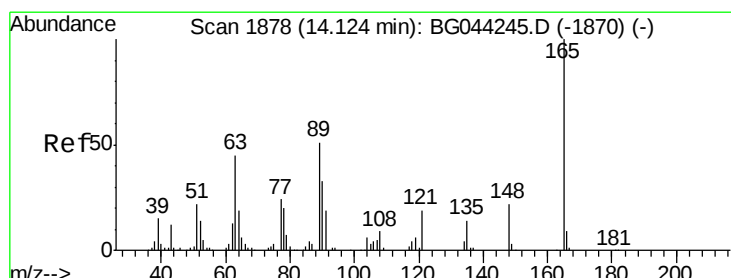
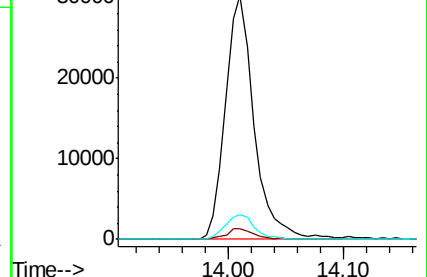
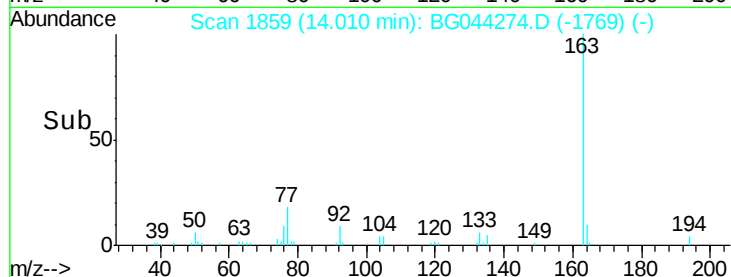
164 9.9 8.7 13.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 8.306 ng

RT: 14.56 min Scan# 1952

Delta R.T. 0.43 min

Lab File: BG044274.D

Acq: 3 Feb 2020 16:04

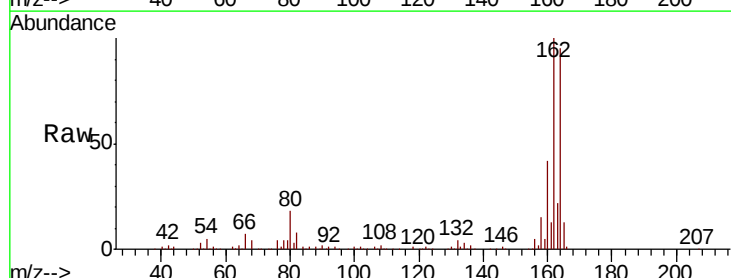
Tgt Ion:165 Resp: 31129

Ion Ratio Lower Upper

165 100

63 1.7 38.7 58.1#

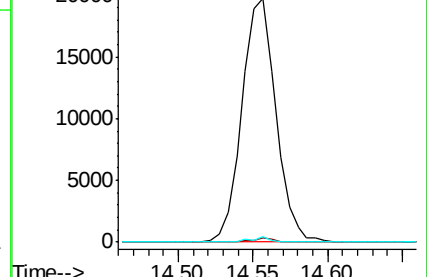
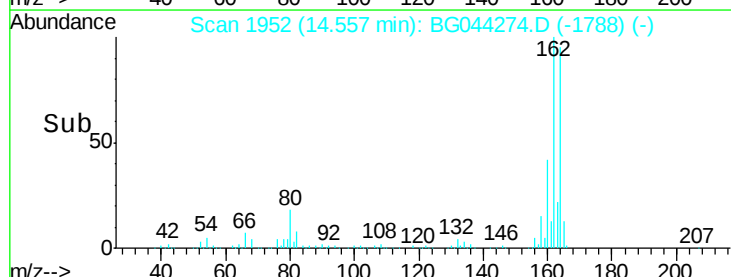
89 2.1 40.4 60.6#

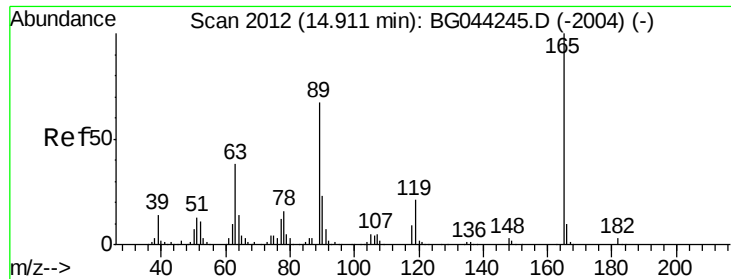


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

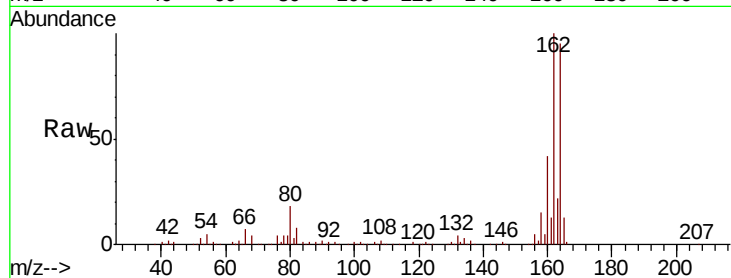




#57  
 2,4-Dinitrotoluene  
 Concen: 5.926 ng  
 RT: 14.56 min Scan# 1952  
 Delta R.T. -0.35 min  
 Lab File: BG044274.D  
 Acq: 3 Feb 2020 16:04

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 30.3  | 45.5# |
| 89      | 2.1   | 53.4  | 80.2# |
| 182     | 0.0   | 2.1   | 3.1#  |



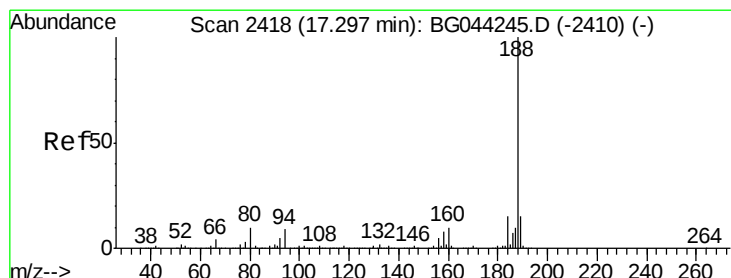
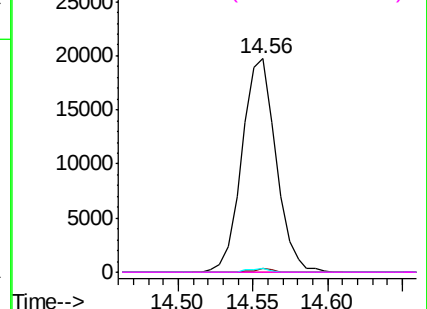
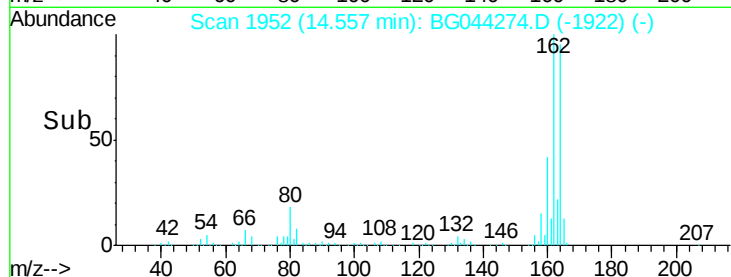
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

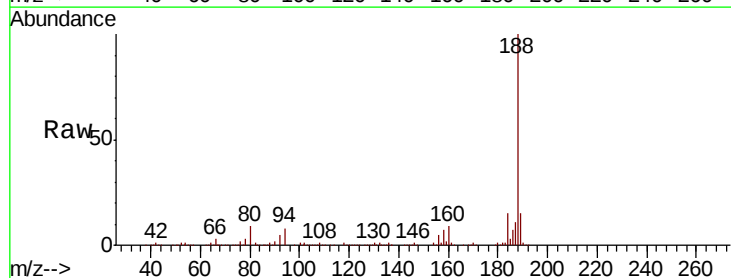
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.30 min Scan# 2419  
 Delta R.T. 0.00 min  
 Lab File: BG044274.D  
 Acq: 3 Feb 2020 16:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.5   | 7.4   | 11.2  |
| 80      | 8.9   | 7.7   | 11.5  |

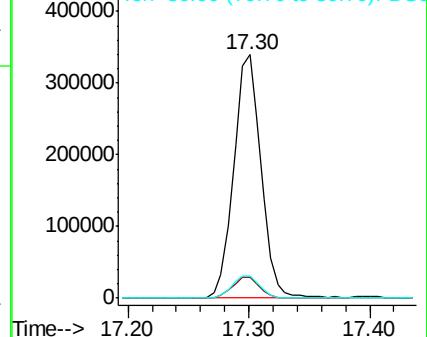
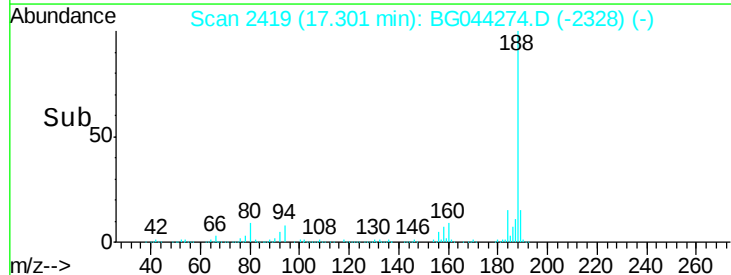


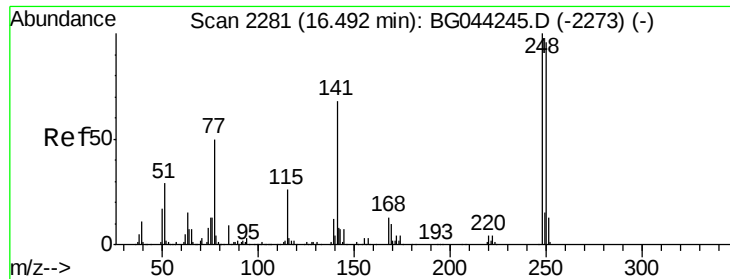
Abundance

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

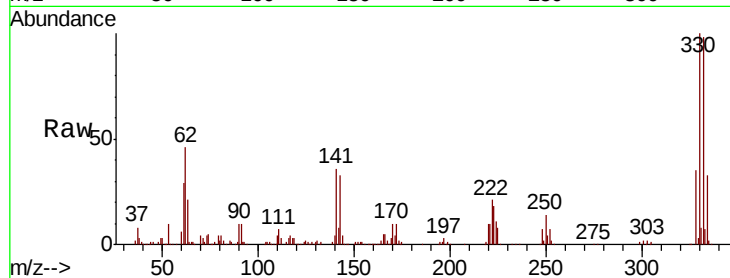




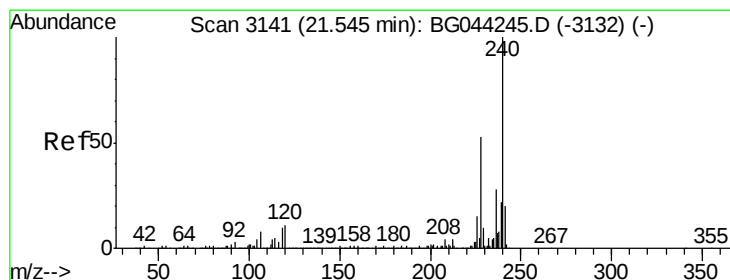
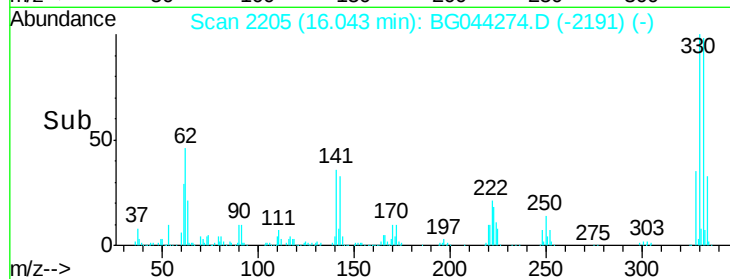
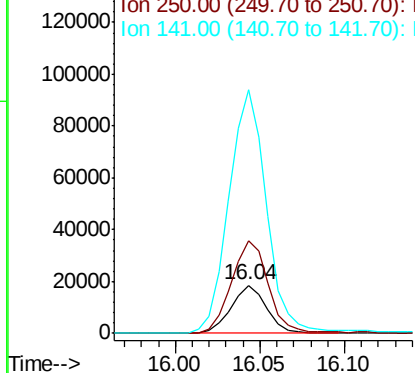
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.692 ng  
 RT: 16.04 min Scan# 2205  
 Delta R.T. -0.45 min  
 Lab File: BG044274.D  
 Acq: 3 Feb 2020 16:04

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 27291  
 Ion Ratio Lower Upper  
 248 100  
 250 191.8 76.6 114.8#  
 141 504.8 54.7 82.1#

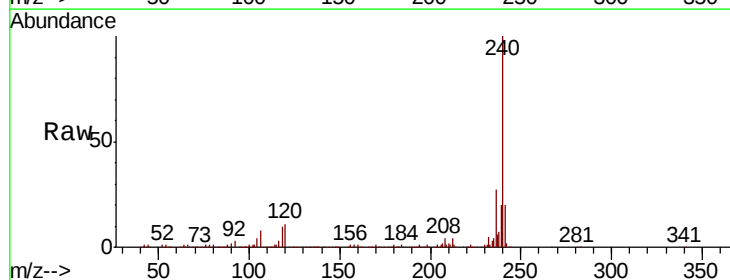


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

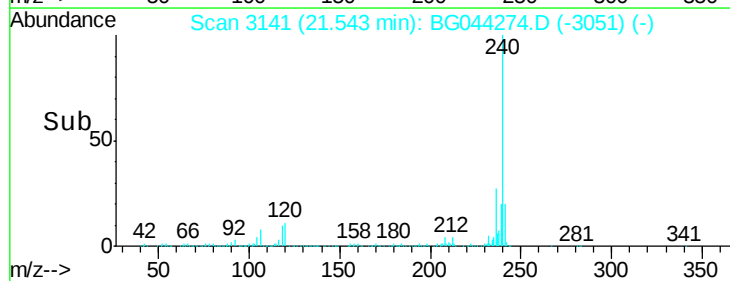
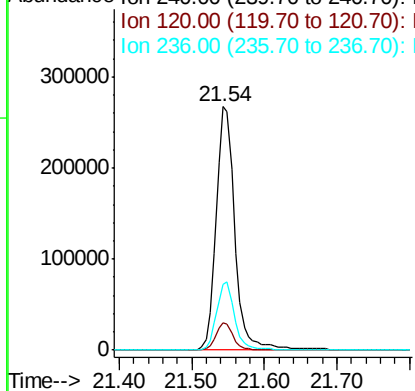


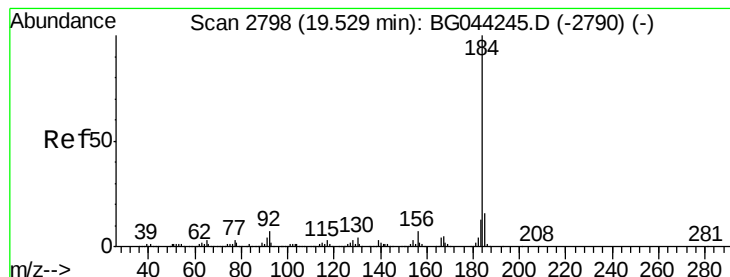
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.54 min Scan# 3141  
 Delta R.T. -0.00 min  
 Lab File: BG044274.D  
 Acq: 3 Feb 2020 16:04

Tgt Ion:240 Resp: 479591  
 Ion Ratio Lower Upper  
 240 100  
 120 11.2 8.4 12.6  
 236 27.0 22.1 33.1



Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.724 ng

RT: 19.92 min Scan# 2864

Delta R.T. 0.39 min

Lab File: BG044274.D

Acq: 3 Feb 2020 16:04

Instrument :

BNA\_G

ClientSampleId :

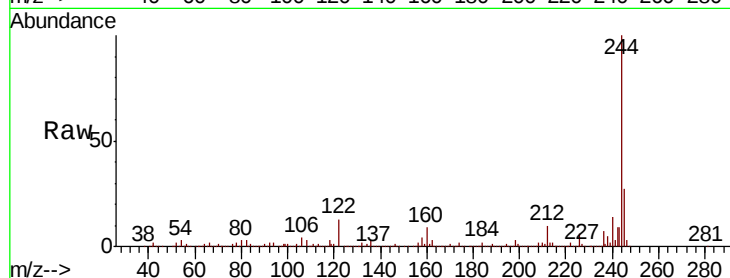
Tot Ion:184 Resp: 36236

Ion Ratio Lower Upper

184 100

185 17.1 12.9 19.3

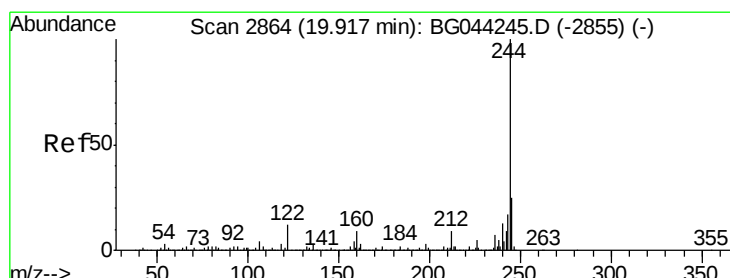
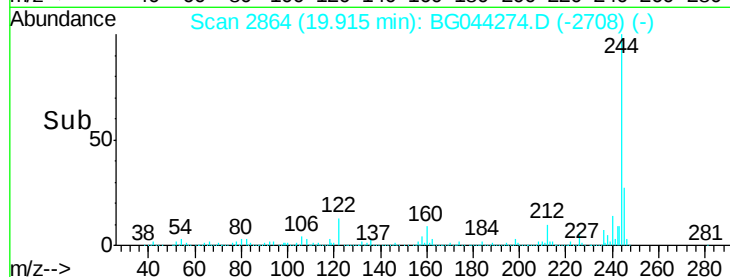
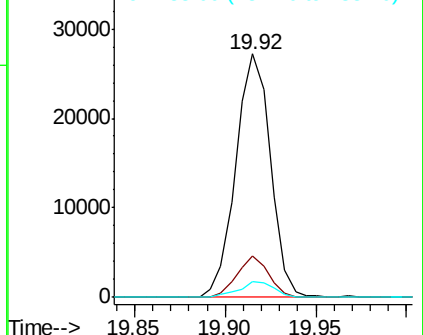
183 6.6 10.8 16.2#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 90.969 ng

RT: 19.92 min Scan# 2864

Delta R.T. -0.00 min

Lab File: BG044274.D

Acq: 3 Feb 2020 16:04

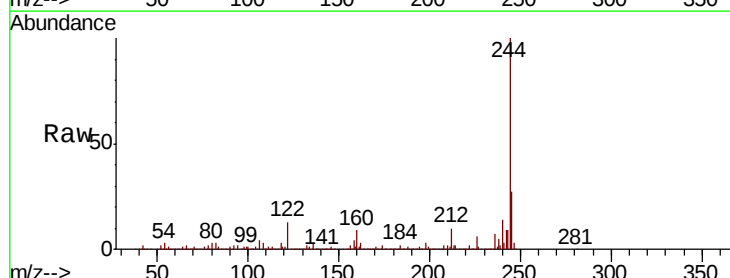
Tgt Ion:244 Resp: 2121083

Ion Ratio Lower Upper

244 100

212 9.7 7.4 11.2

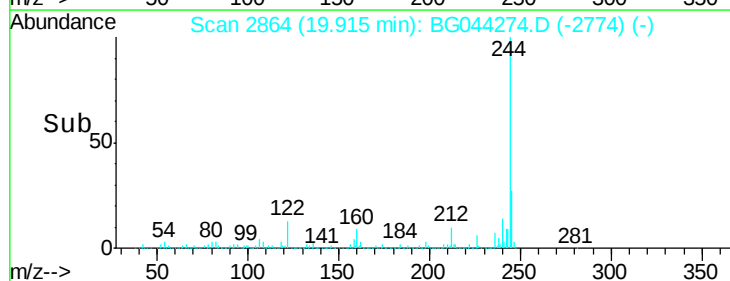
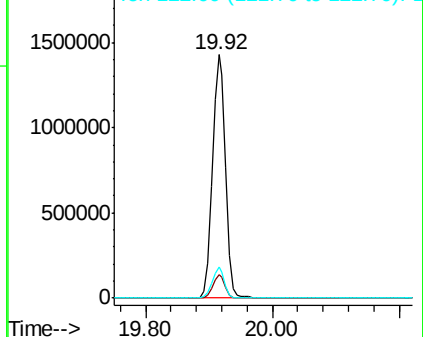
122 12.9 9.8 14.6

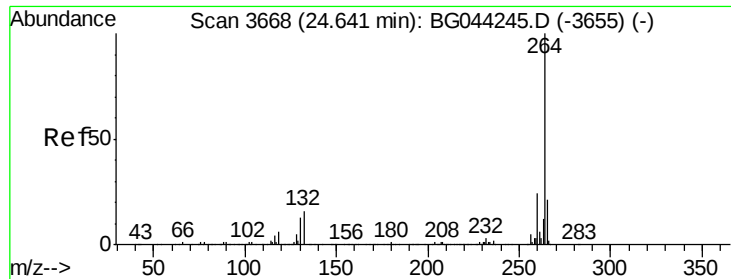


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

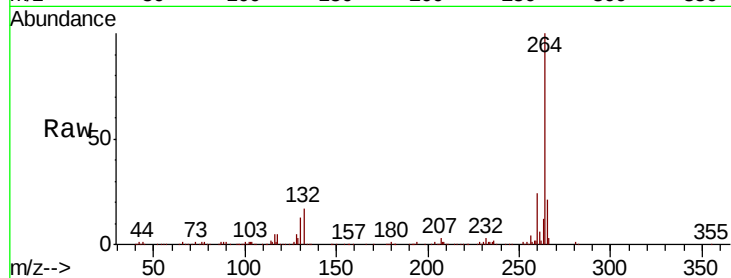




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.64 min Scan# 3669  
Delta R.T. 0.00 min  
Lab File: BG044274.D  
Acq: 3 Feb 2020 16:04

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.4  | 29.2  |
| 265     | 20.8  | 16.7  | 25.1  |



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

