

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG122818\  
 Data File : BG038883.D  
 Acq On : 28 Dec 2018 21:08  
 Operator : JU/SJ  
 Sample : J6193-16  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 29 00:21:50 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 12 15:26:27 2018  
 Response via : Initial Calibration

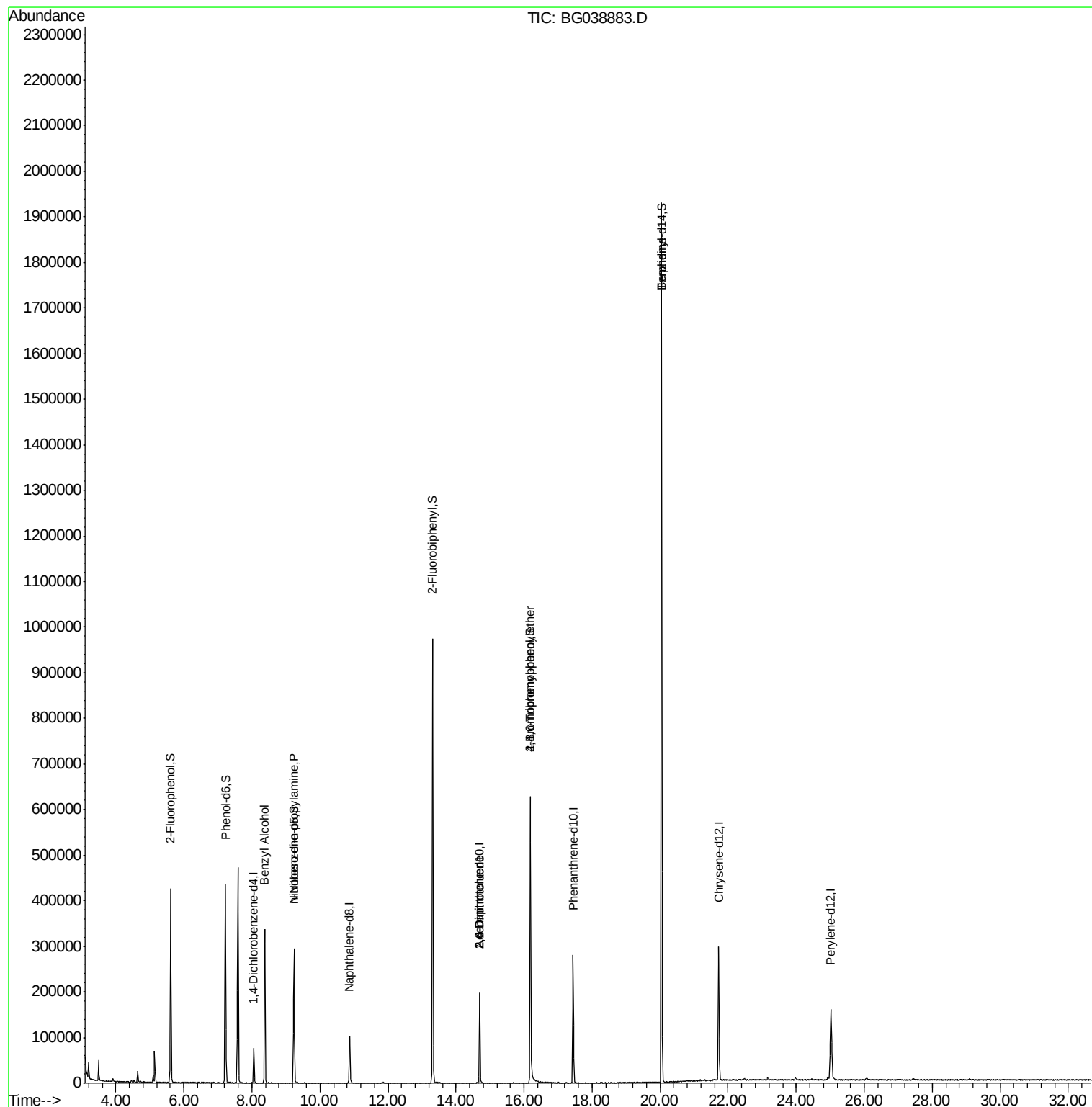
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 22480    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.87 | 136  | 96117    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.69 | 164  | 74509    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.44 | 188  | 188388   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.72 | 240  | 192825   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.02 | 264  | 207633   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 187931   | 148.28 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 251823   | 144.73 | ng    | 0.01     |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 179616   | 95.47  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 149097   | 145.20 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 523068   | 96.31  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.05 | 244  | 1011681  | 114.18 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.38  | 79   | 2803     | 2.064  | ng    | # 56     |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 23831    | 19.501 | ng    | # 67     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 9639     | 6.990  | ng    | # 21     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 9639     | 4.963  | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248  | 9455     | 4.110  | ng    | # 1      |
| 77) Benzidine                  | 20.04 | 184  | 16725    | 2.933  | ng    | # 94     |

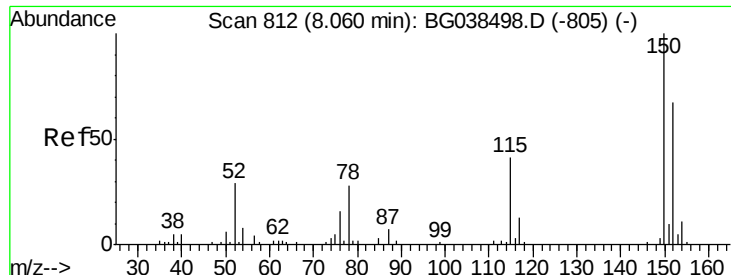
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG122818\  
Data File : BG038883.D  
Acq On : 28 Dec 2018 21:08  
Operator : JU/SJ  
Sample : J6193-16  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Dec 29 00:21:50 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 15:26:27 2018  
Response via : Initial Calibration



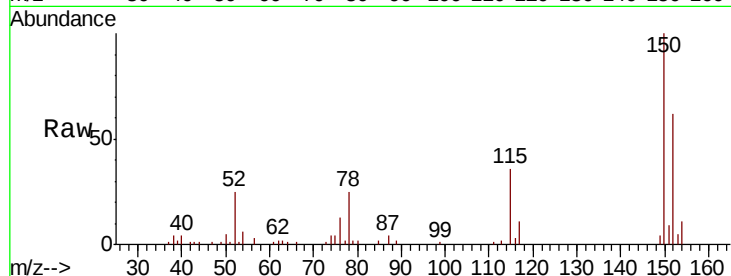


#1

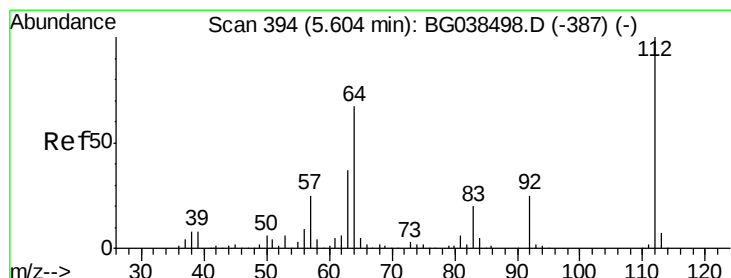
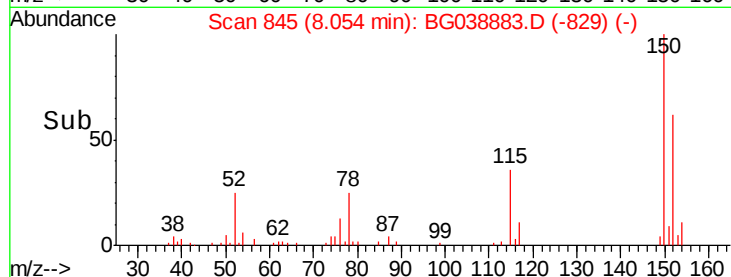
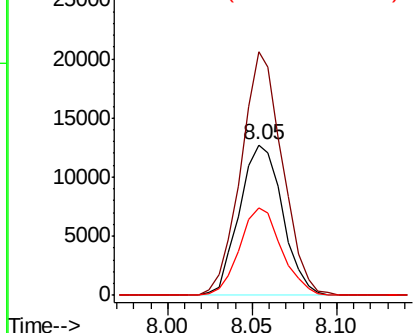
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 845  
Delta R.T. -0.01 min  
Lab File: BG038883.D  
Acq: 28 Dec 2018 21:08

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 22480  
Ion Ratio Lower Upper  
152 100  
150 161.8 119.5 179.3  
115 58.2 49.6 74.4



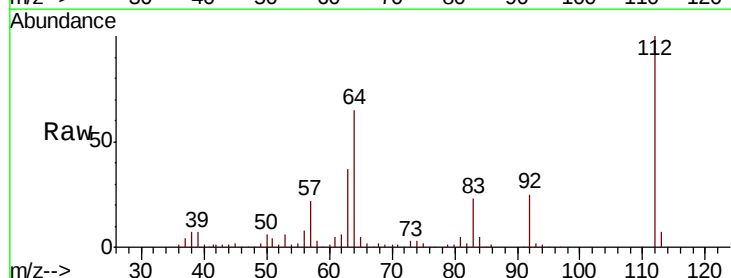
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



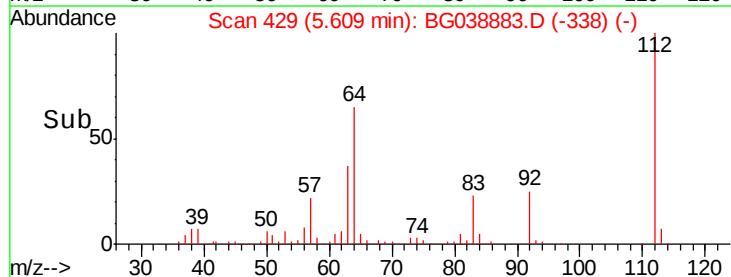
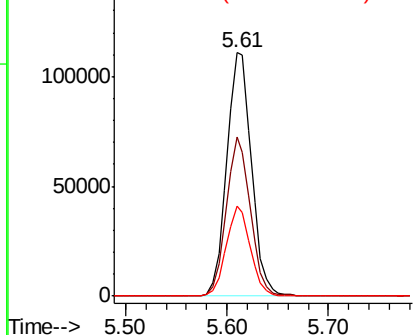
#5

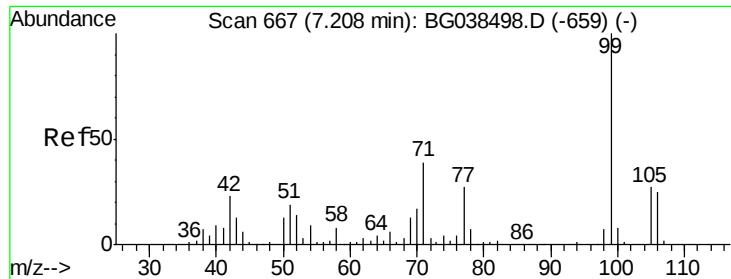
2-Fluorophenol  
Concen: 148.276 ng  
RT: 5.61 min Scan# 429  
Delta R.T. 0.01 min  
Lab File: BG038883.D  
Acq: 28 Dec 2018 21:08

Tgt Ion:112 Resp: 187931  
Ion Ratio Lower Upper  
112 100  
64 65.2 53.4 80.2  
63 36.9 29.3 43.9



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: 144.730 ng

RT: 7.22 min Scan# 703

Delta R.T. 0.01 min

Lab File: BG038883.D

Acq: 28 Dec 2018 21:08

Instrument :

BNA\_G

ClientSampleId :

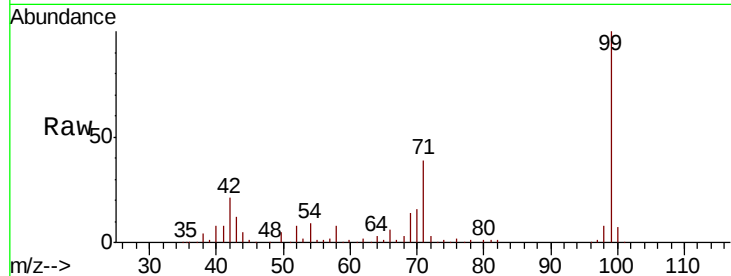
Tot Ion: 99 Resp: 251823

Ion Ratio Lower Upper

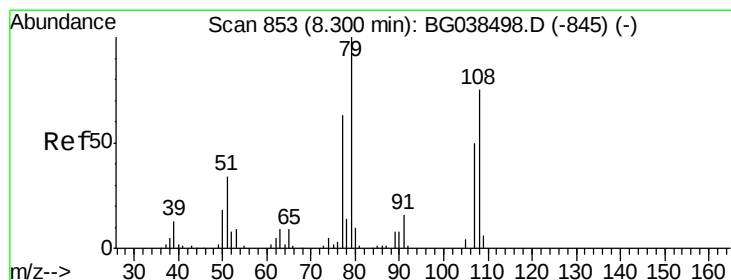
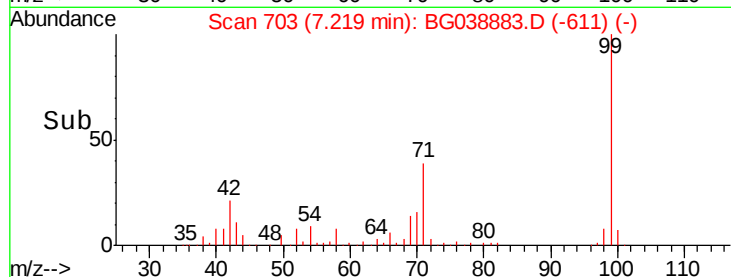
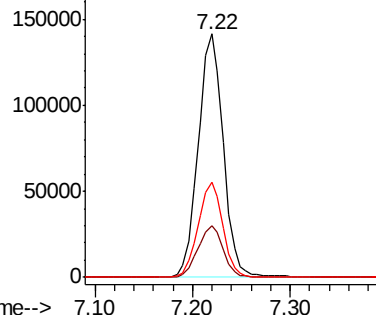
99 100

42 21.2 18.5 27.7

71 39.1 31.1 46.7



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: 2.064 ng

RT: 8.38 min Scan# 901

Delta R.T. 0.08 min

Lab File: BG038883.D

Acq: 28 Dec 2018 21:08

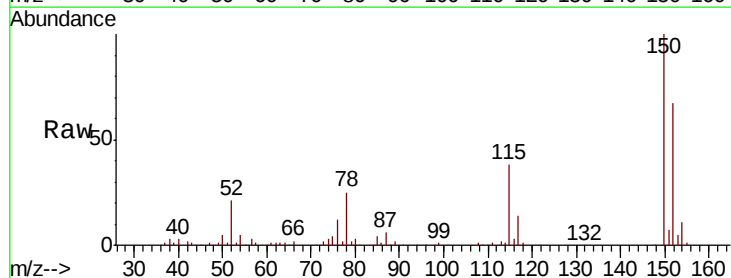
Tgt Ion: 79 Resp: 2803

Ion Ratio Lower Upper

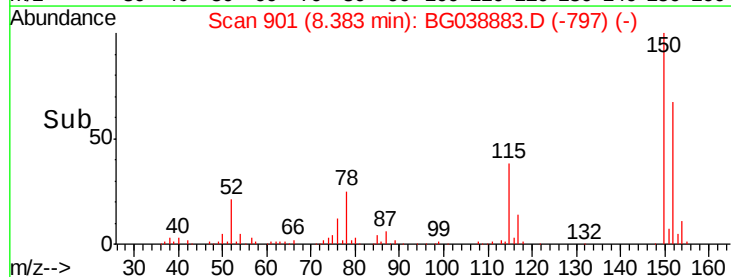
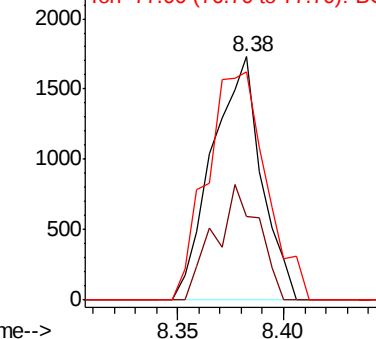
79 100

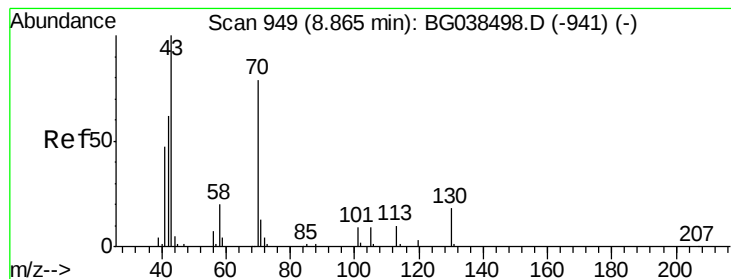
108 34.1 60.2 90.4#

77 94.0 50.7 76.1#



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





#19

n-Nitroso-di-n-propylamine

Concen: 19.501 ng

RT: 9.23 min Scan# 1046

Delta R.T. 0.37 min

Lab File: BG038883.D

Acq: 28 Dec 2018 21:08

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 23831

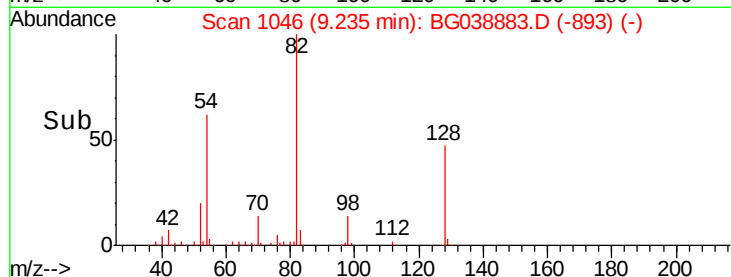
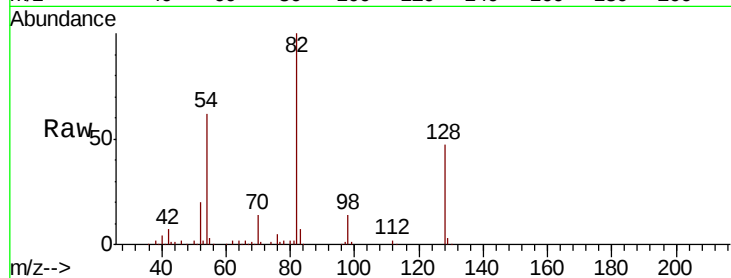
Ion Ratio Lower Upper

70 100

42 52.4 63.6 95.4#

101 0.0 9.2 13.8#

130 2.8 18.5 27.7#

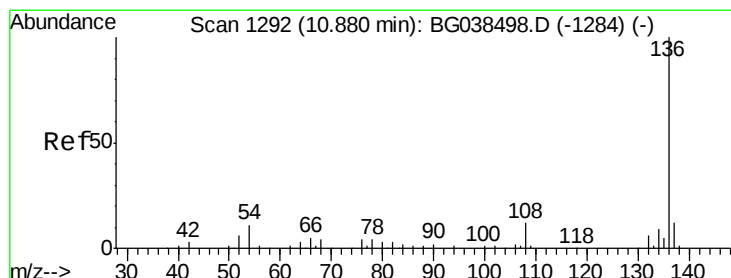
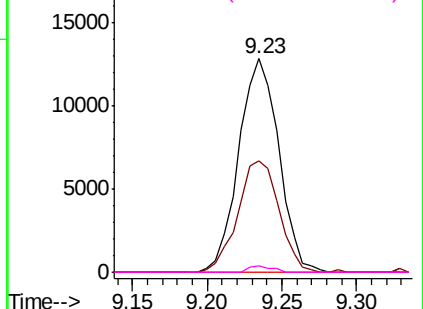


Abundance Ion 70.00 (69.70 to 70.70): BGC

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: 10.87 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BG038883.D

Acq: 28 Dec 2018 21:08

Tgt Ion: 136 Resp: 96117

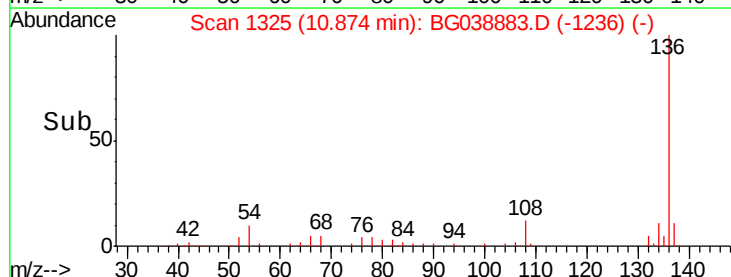
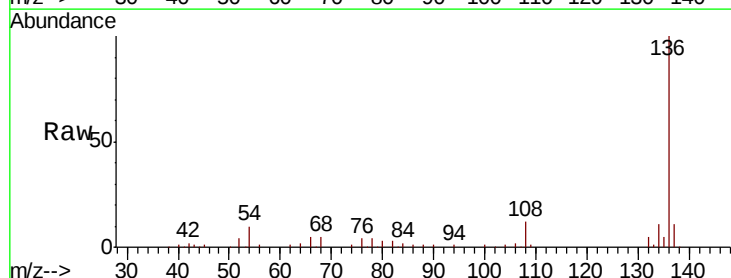
Ion Ratio Lower Upper

136 100

137 10.8 9.3 13.9

54 10.0 8.5 12.7

68 4.7 3.5 5.3

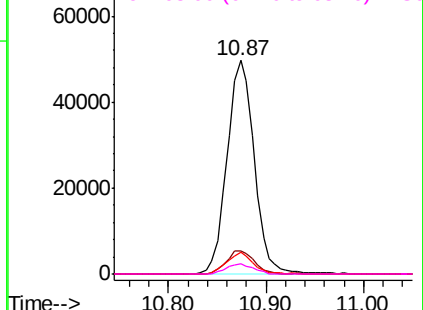


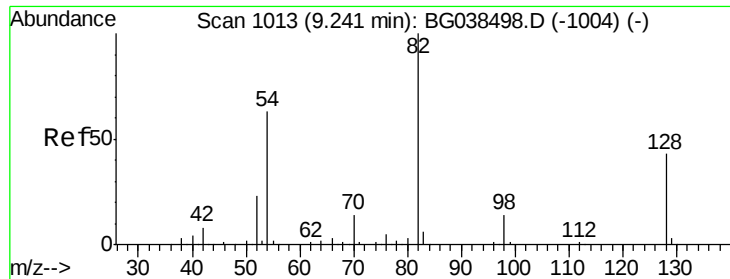
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

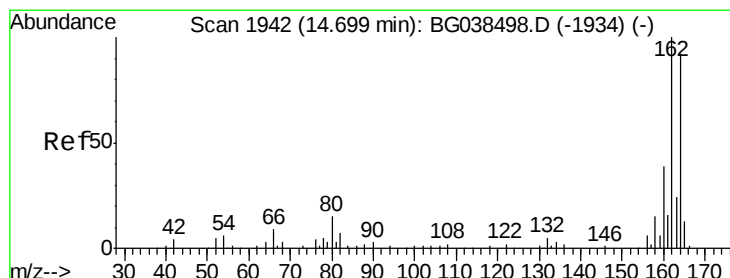
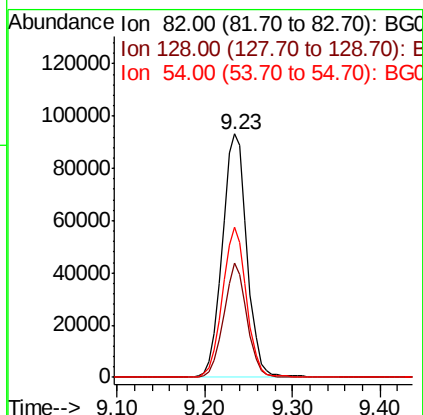
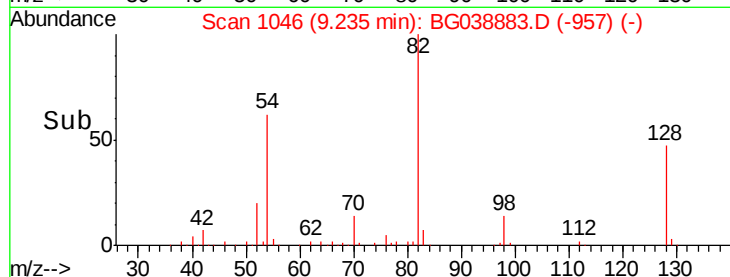
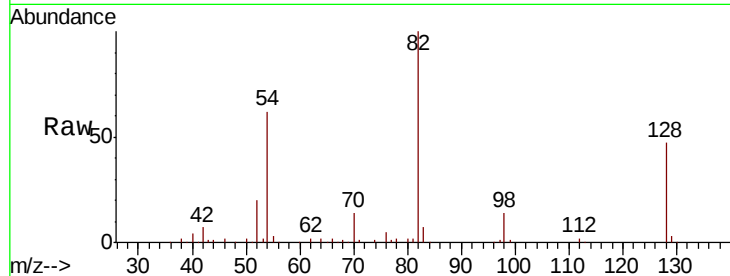




#23  
Nitrobenzene-d5  
Concen: 95.468 ng  
RT: 9.23 min Scan# 1046  
Delta R.T. -0.01 min  
Lab File: BG038883.D  
Acq: 28 Dec 2018 21:08

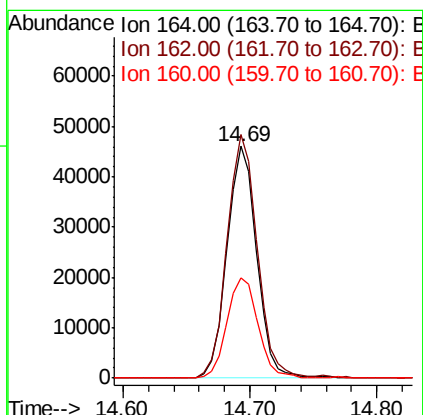
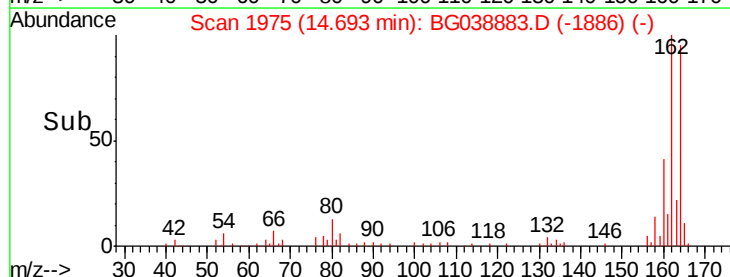
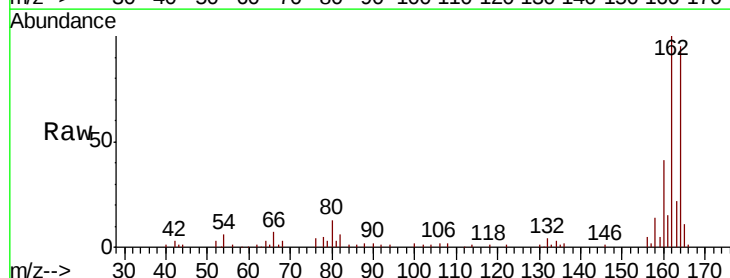
Instrument :  
BNA\_G  
ClientSampleId :

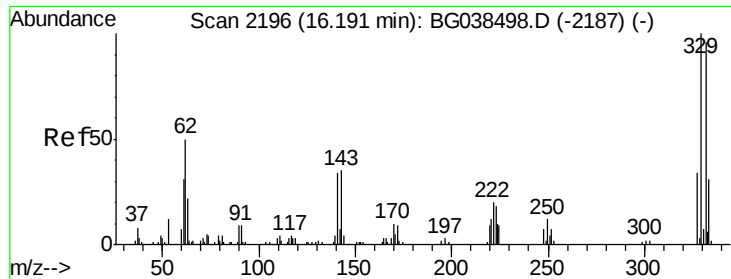
Tot Ion: 82 Resp: 179616  
Ion Ratio Lower Upper  
82 100  
128 46.9 34.6 52.0  
54 61.5 50.6 76.0



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.69 min Scan# 1975  
Delta R.T. -0.01 min  
Lab File: BG038883.D  
Acq: 28 Dec 2018 21:08

Tgt Ion:164 Resp: 74509  
Ion Ratio Lower Upper  
164 100  
162 105.1 86.6 130.0  
160 43.3 34.2 51.2





#42

2,4,6-Tribromophenol

Concen: 145.196 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.01 min

Lab File: BG038883.D

Acq: 28 Dec 2018 21:08

Instrument :

BNA\_G

ClientSampleId :

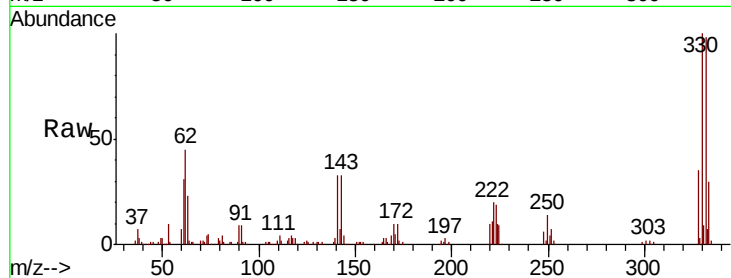
Tot Ion:330 Resp: 149097

Ion Ratio Lower Upper

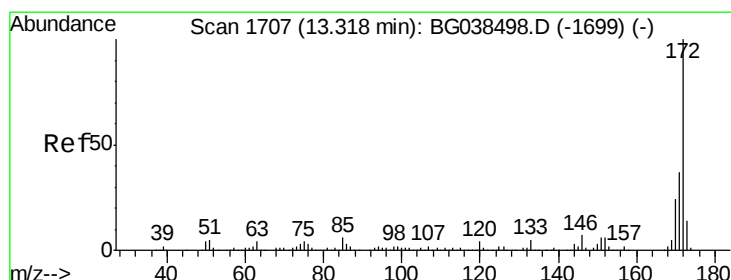
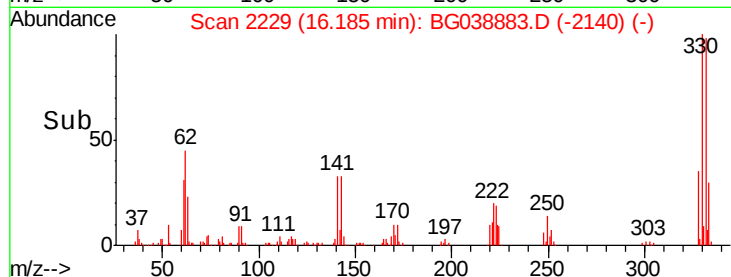
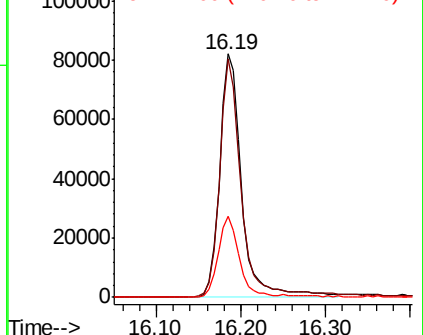
330 100

332 94.6 76.9 115.3

141 33.0 28.8 43.2



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: 96.306 ng

RT: 13.31 min Scan# 1740

Delta R.T. -0.01 min

Lab File: BG038883.D

Acq: 28 Dec 2018 21:08

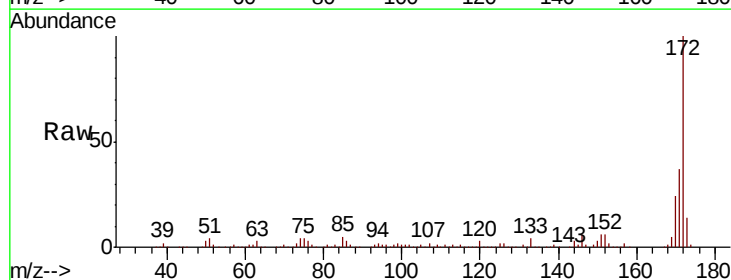
Tgt Ion:172 Resp: 523068

Ion Ratio Lower Upper

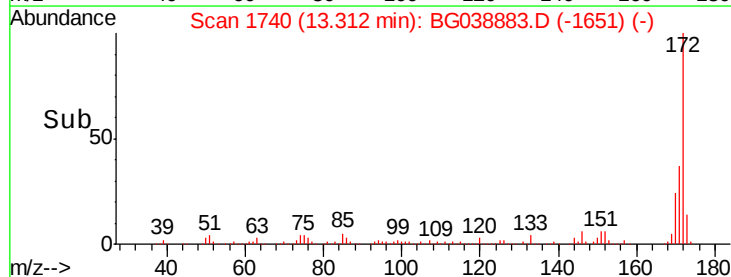
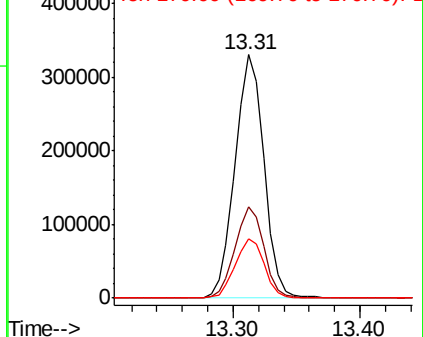
172 100

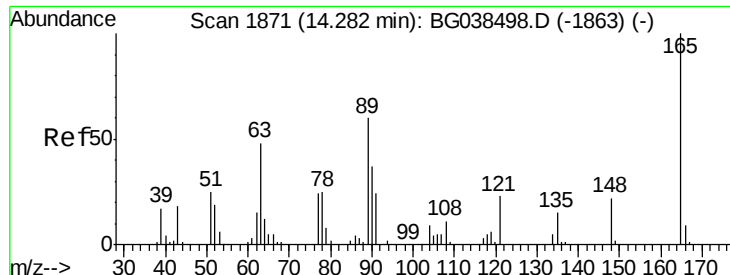
171 37.4 29.8 44.6

170 24.2 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

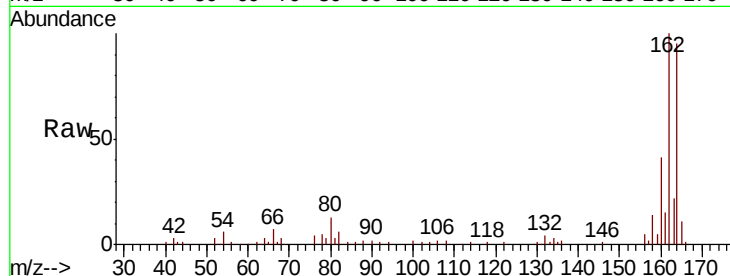




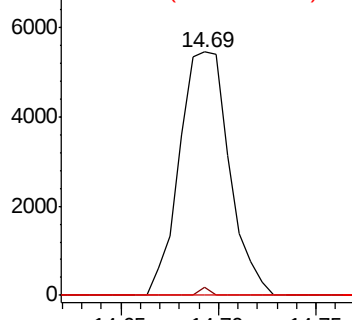
#51  
 2,6-Dinitrotoluene  
 Concen: 6.990 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. 0.41 min  
 Lab File: BG038883.D  
 Acq: 28 Dec 2018 21:08

Instrument :  
 BNA\_G  
 ClientSampleId :

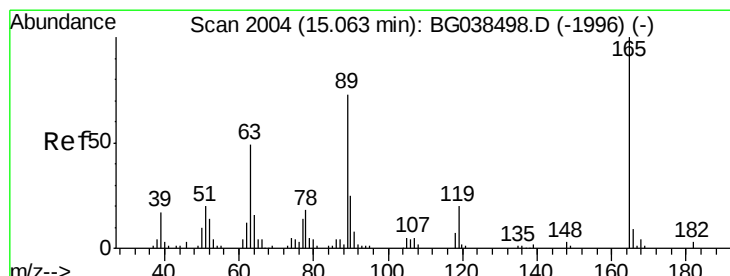
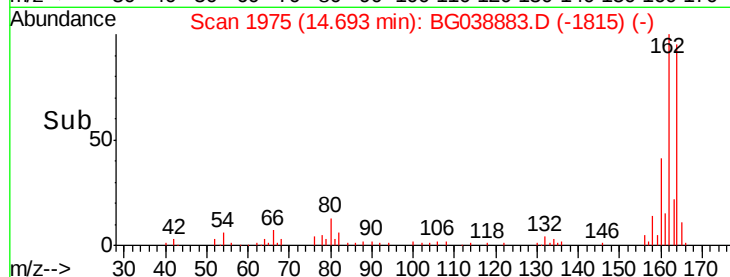
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.4   | 51.8  | 77.6# |
| 89      | 0.0   | 47.9  | 71.9# |



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



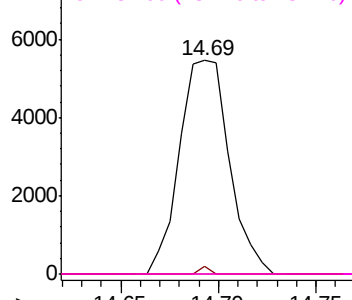
Time-->



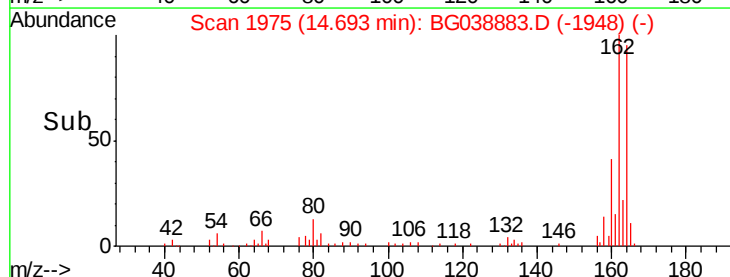
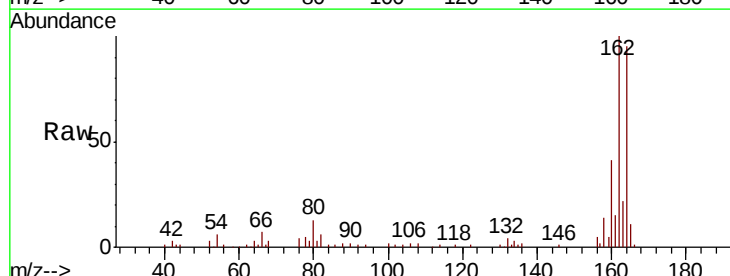
#57  
 2,4-Dinitrotoluene  
 Concen: 4.963 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. -0.37 min  
 Lab File: BG038883.D  
 Acq: 28 Dec 2018 21:08

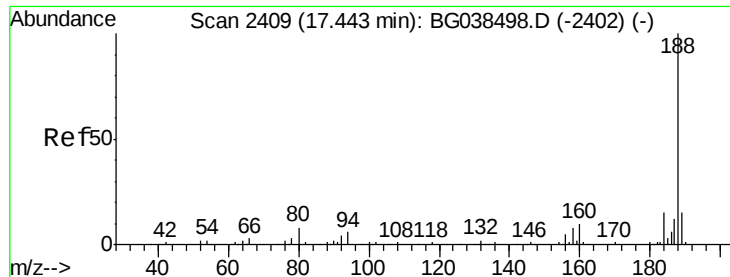
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.4   | 39.0  | 58.4# |
| 89      | 0.0   | 58.0  | 87.0# |
| 182     | 0.0   | 2.3   | 3.5#  |

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



Time-->

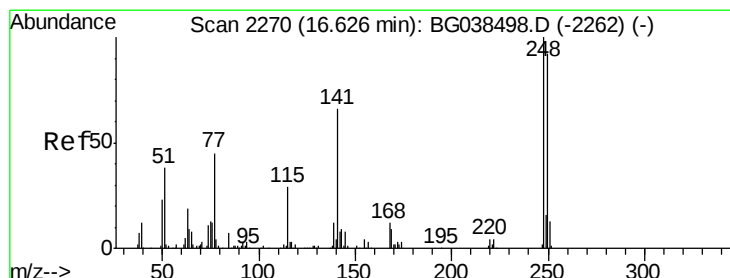
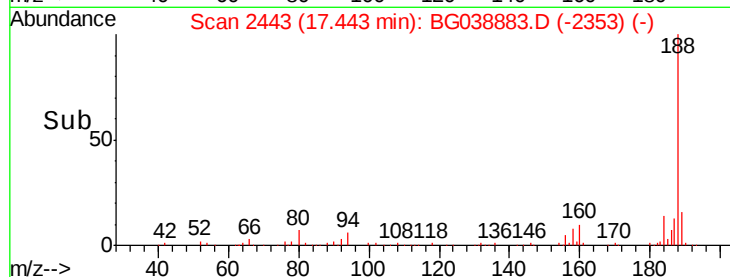
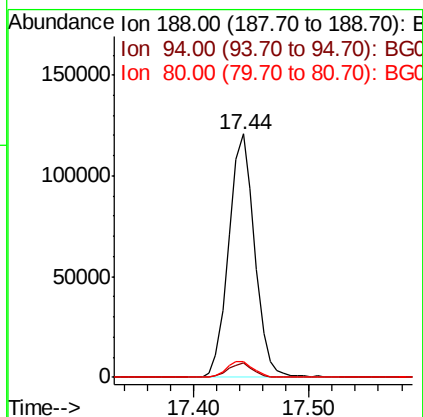
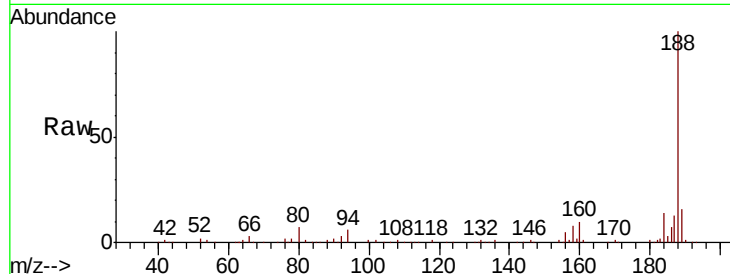




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2443  
 Delta R.T. -0.00 min  
 Lab File: BG038883.D  
 Acq: 28 Dec 2018 21:08

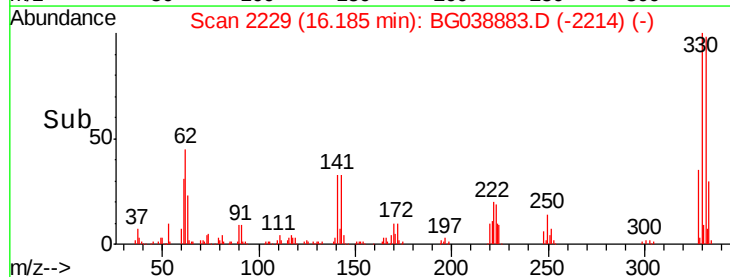
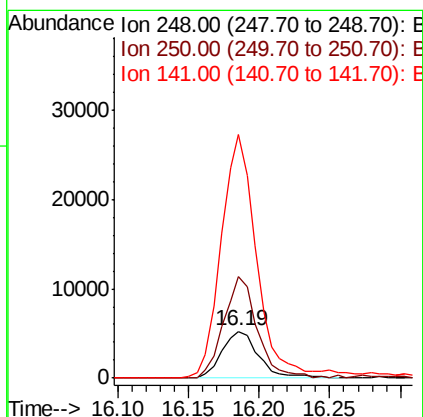
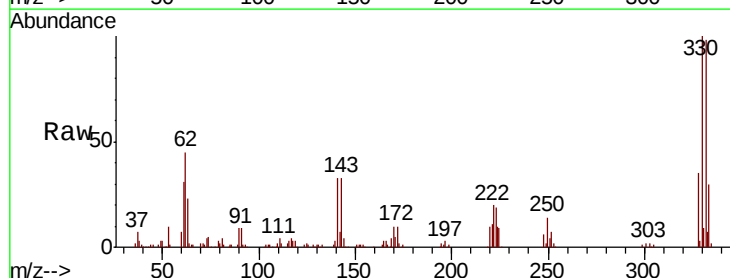
Instrument :  
 BNA\_G  
 ClientSampleId :

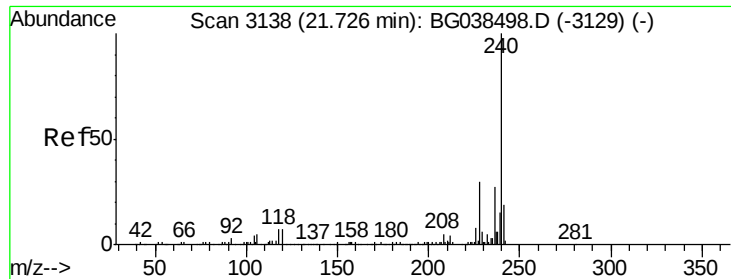
Tot Ion:188 Resp: 188388  
 Ion Ratio Lower Upper  
 188 100  
 94 5.8 5.1 7.7  
 80 6.5 6.1 9.1



#67  
 4-Bromophenyl-phenylether  
 Concen: 4.110 ng  
 RT: 16.19 min Scan# 2229  
 Delta R.T. -0.44 min  
 Lab File: BG038883.D  
 Acq: 28 Dec 2018 21:08

Tgt Ion:248 Resp: 9455  
 Ion Ratio Lower Upper  
 248 100  
 250 206.4 73.4 110.2#  
 141 375.3 52.9 79.3#

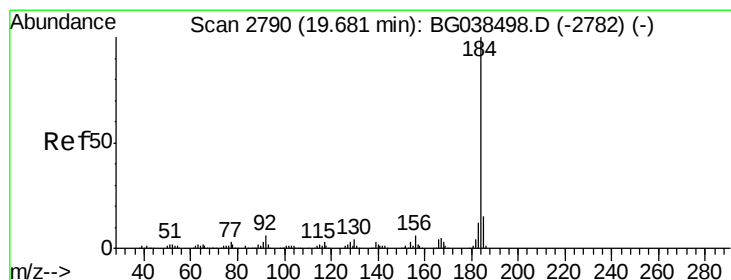
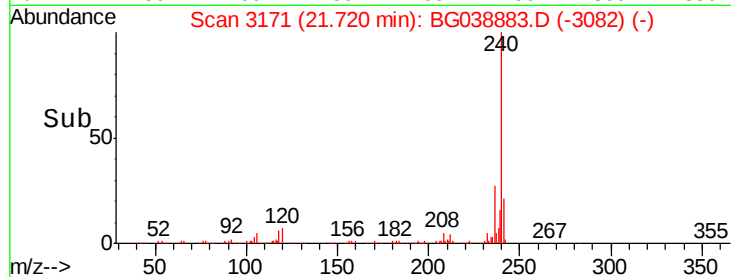
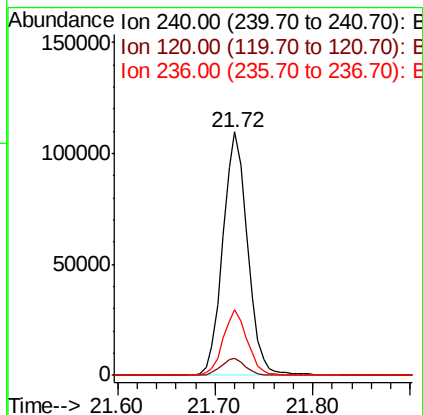
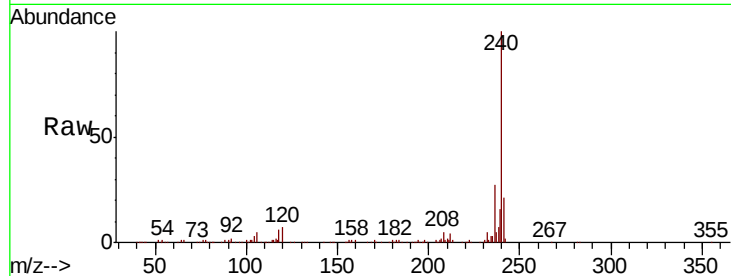




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 21.72 min Scan# 3171  
 Delta R.T. -0.01 min  
 Lab File: BG038883.D  
 Acq: 28 Dec 2018 21:08

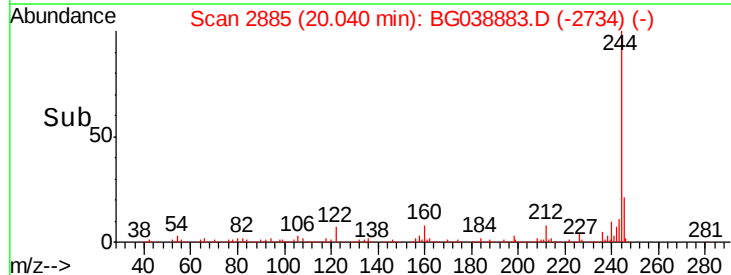
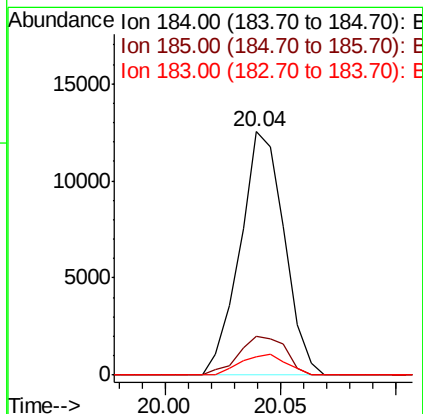
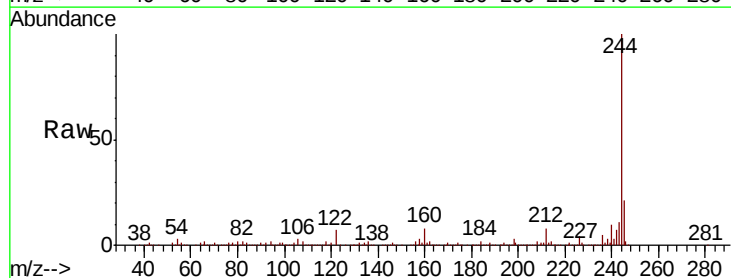
Instrument :  
 BNA\_G  
 ClientSampled :

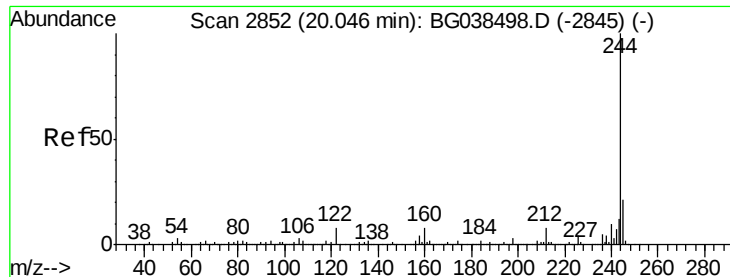
Tot Ion:240 Resp: 192825  
 Ion Ratio Lower Upper  
 240 100  
 120 6.8 5.3 7.9  
 236 27.0 21.4 32.2



#77  
 Benzidine  
 Concen: 2.933 ng  
 RT: 20.04 min Scan# 2885  
 Delta R.T. 0.36 min  
 Lab File: BG038883.D  
 Acq: 28 Dec 2018 21:08

Tgt Ion:184 Resp: 16725  
 Ion Ratio Lower Upper  
 184 100  
 185 16.0 12.2 18.2  
 183 7.6 9.6 14.4#





#79

Terphenyl-d14

Concen: 114.184 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.00 min

Lab File: BG038883.D

Acq: 28 Dec 2018 21:08

Instrument :

BNA\_G

ClientSampleId :

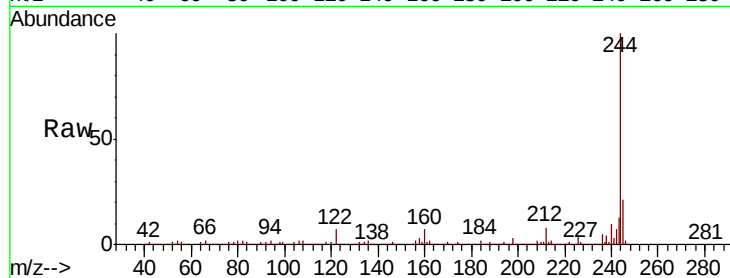
Tot Ion:244 Resp: 1011681

Ion Ratio Lower Upper

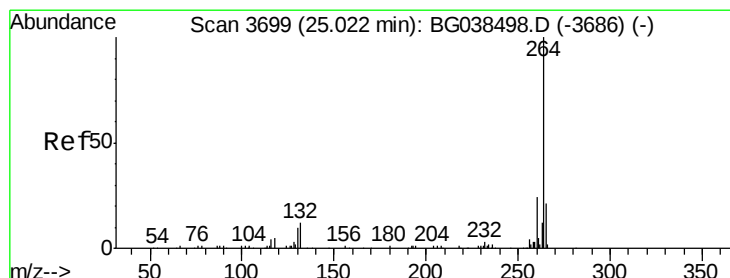
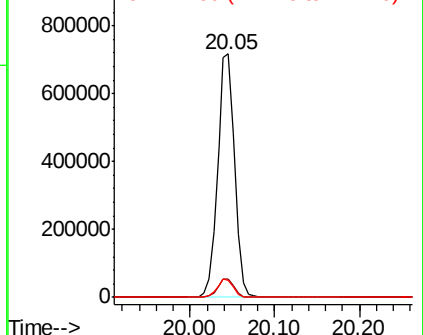
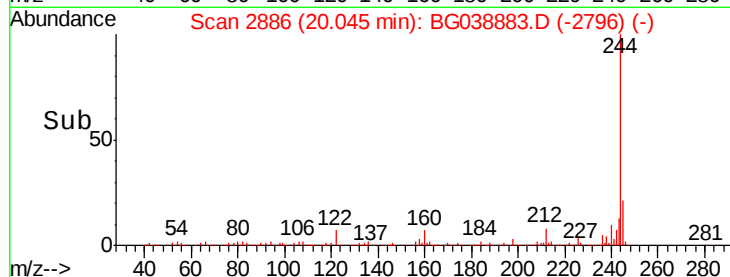
244 100

212 7.5 6.2 9.2

122 6.9 6.3 9.5



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.02 min Scan# 3733

Delta R.T. -0.00 min

Lab File: BG038883.D

Acq: 28 Dec 2018 21:08

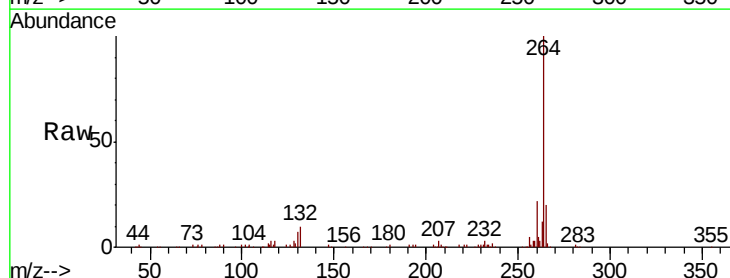
Tgt Ion:264 Resp: 207633

Ion Ratio Lower Upper

264 100

260 21.7 18.9 28.3

265 20.5 17.0 25.4



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

