

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF120817\  
 Data File : BF101237.D  
 Acq On : 8 Dec 2017 15:56  
 Operator : SJ/JU  
 Sample : PB104832BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 08 18:18:47 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 08 18:17:31 2017  
 Response via : Initial Calibration

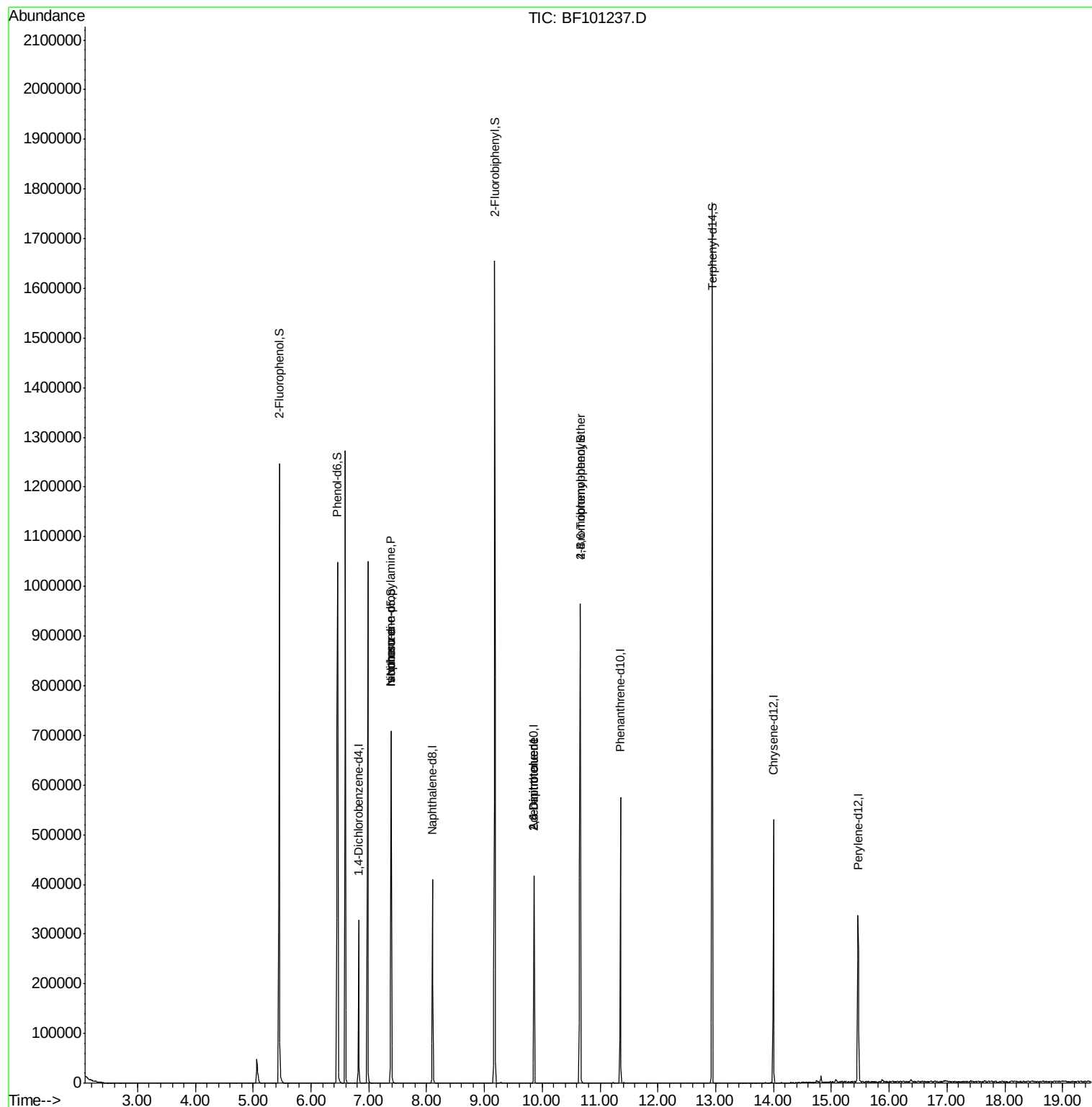
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 46704    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.10  | 136  | 187248   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.86  | 164  | 93123    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.35 | 188  | 197119   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.00 | 240  | 182334   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.46 | 264  | 157572   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.45  | 112  | 340415   | 120.44 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.46  | 99   | 409596   | 119.36 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 250068   | 79.67  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.66 | 330  | 129719   | 115.96 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.18  | 172  | 569584   | 83.69  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.94 | 244  | 657362   | 78.86  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 32271    | 13.964 | ng    | # 83     |
| 25) Isophorone                 | 7.39  | 82   | 250064   | 46.639 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.86  | 165  | 11953    | 7.557  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.86  | 165  | 11953    | 5.638  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.66 | 248  | 8083     | 3.663  | ng    | # 1      |

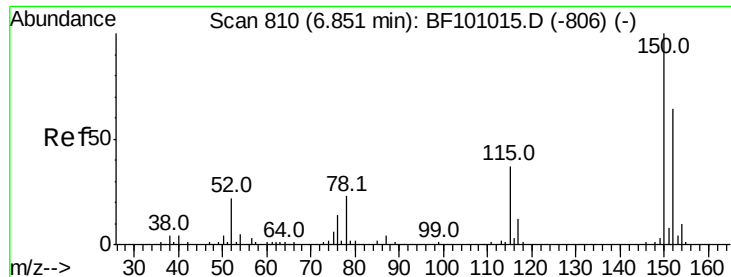
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF120817\  
Data File : BF101237.D  
Acq On : 8 Dec 2017 15:56  
Operator : SJ/JU  
Sample : PB104832BL  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Dec 08 18:18:47 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 08 18:17:31 2017  
Response via : Initial Calibration



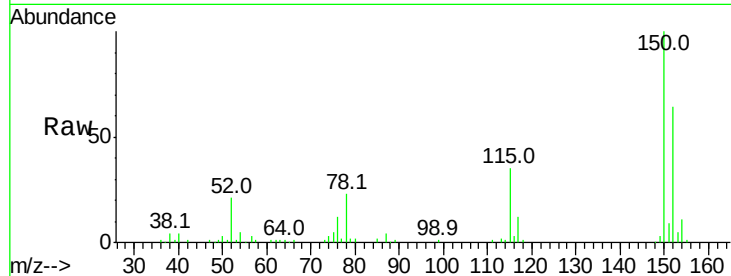


#1

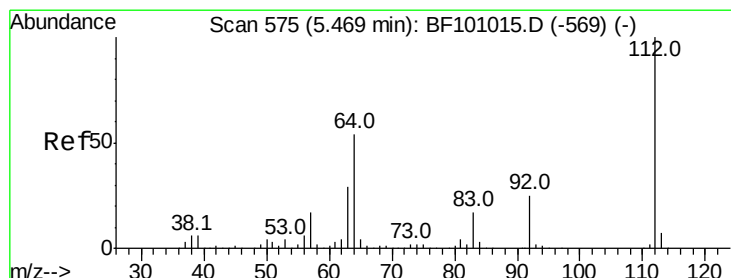
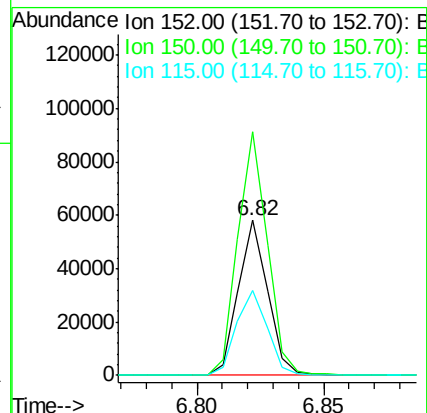
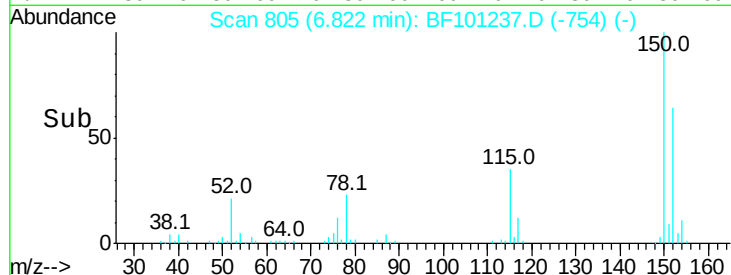
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: BF101237.D  
Acq: 8 Dec 2017 15:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 46704  
Ion Ratio Lower Upper  
152 100  
150 156.9 124.6 186.8  
115 55.1 50.1 75.1



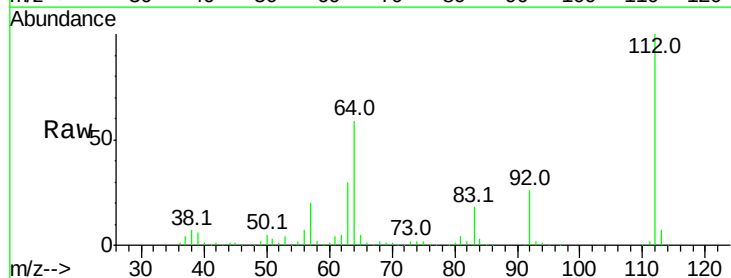
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



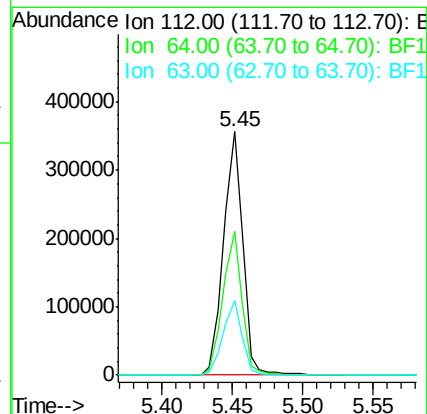
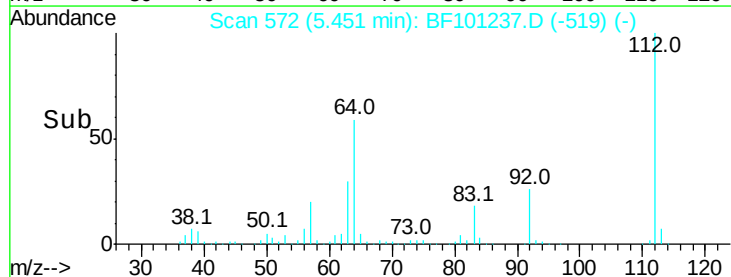
#5

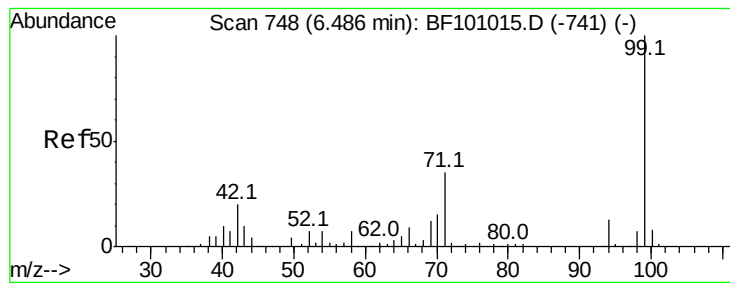
2-Fluorophenol  
Concen: 120.443 ng  
RT: 5.45 min Scan# 572  
Delta R.T. 0.01 min  
Lab File: BF101237.D  
Acq: 8 Dec 2017 15:56

Tgt Ion:112 Resp: 340415  
Ion Ratio Lower Upper  
112 100  
64 59.1 47.9 71.9  
63 30.4 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 119.364 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF101237.D

Acq: 8 Dec 2017 15:56

Instrument :

BNA\_F

ClientSampled :

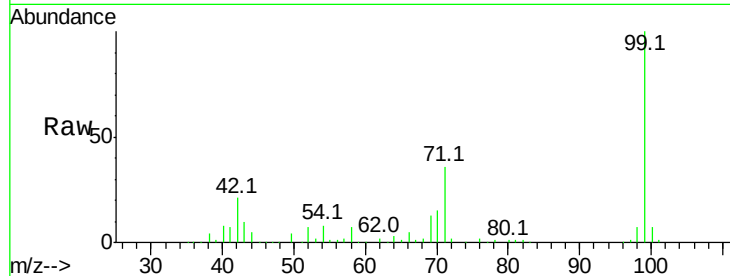
Tot Ion: 99 Resp: 409596

Ion Ratio Lower Upper

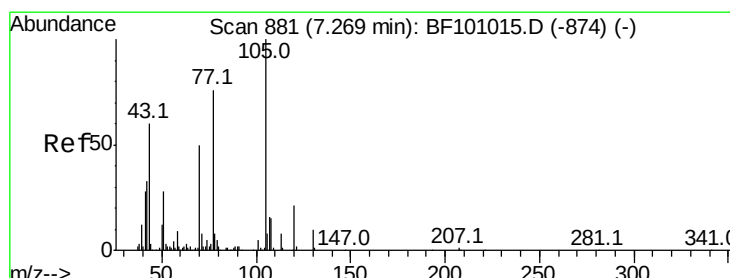
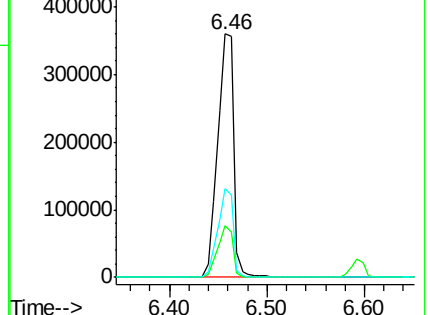
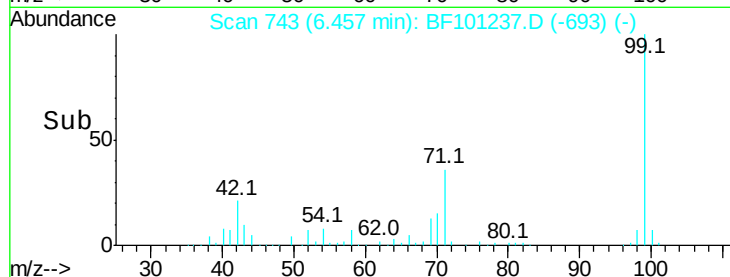
99 100

42 21.2 14.5 21.7

71 36.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 13.964 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.15 min

Lab File: BF101237.D

Acq: 8 Dec 2017 15:56

Tgt Ion: 70 Resp: 32271

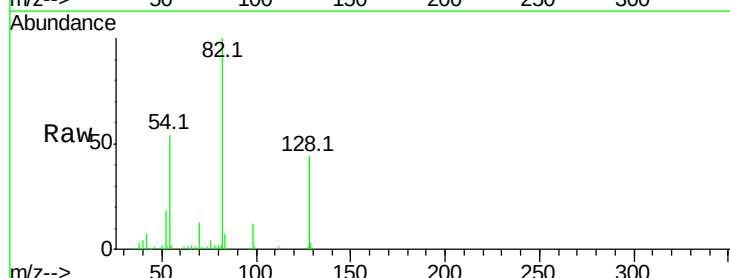
Ion Ratio Lower Upper

70 100

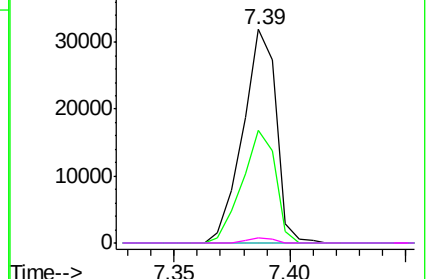
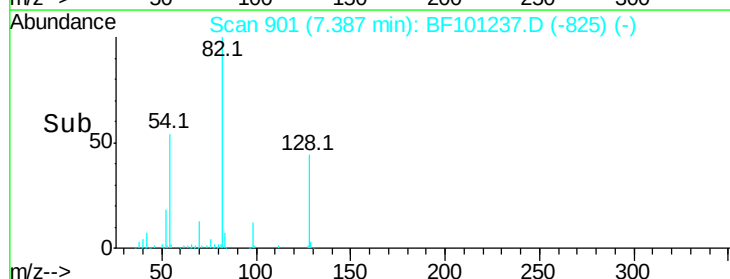
42 53.0 47.5 71.3

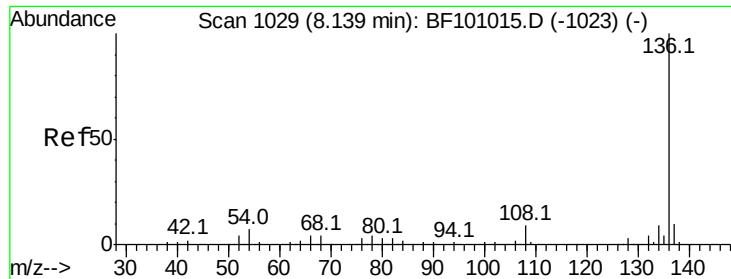
101 0.0 7.4 11.2#

130 2.5 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1

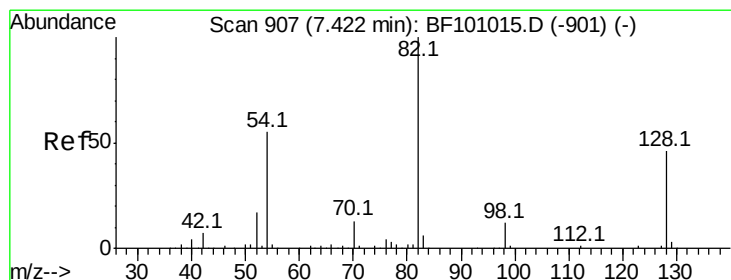
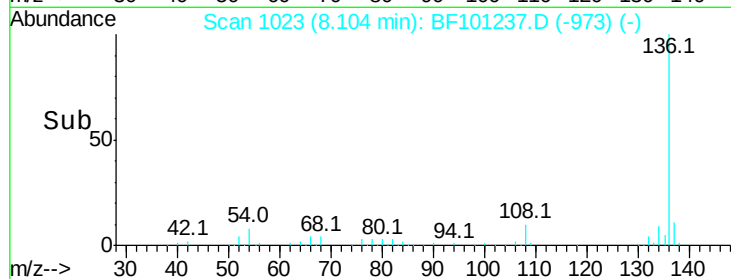
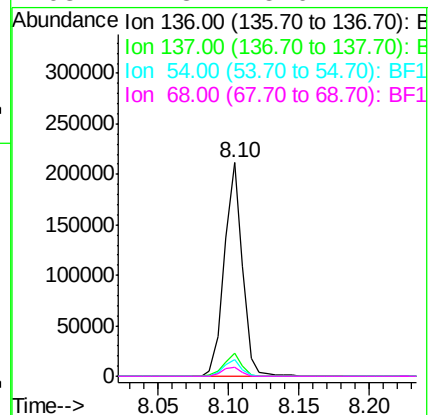
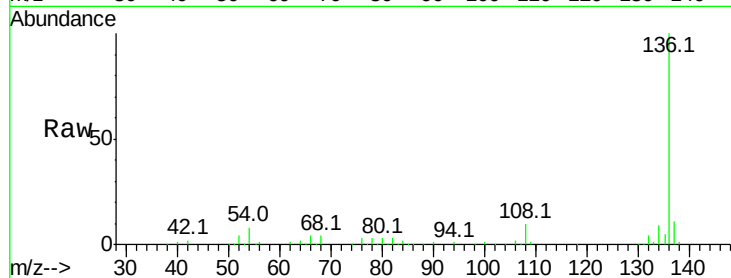




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1023  
Delta R.T. -0.01 min  
Lab File: BF101237.D  
Acq: 8 Dec 2017 15:56

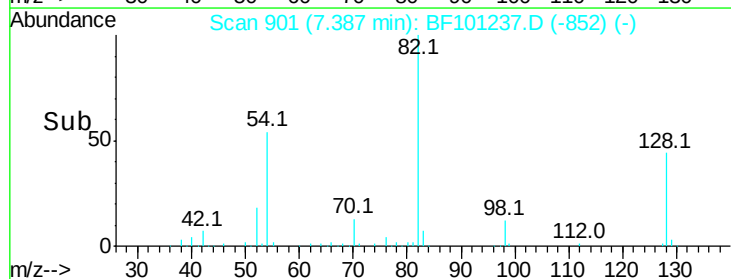
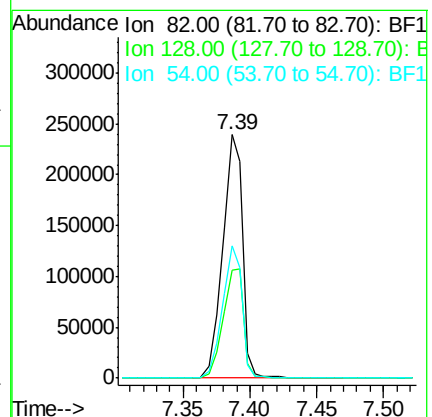
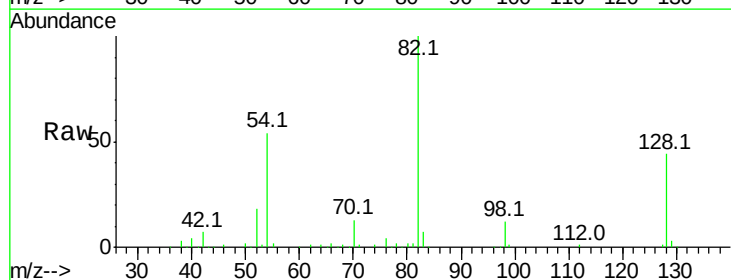
Instrument :  
BNA\_F  
ClientSampleId :

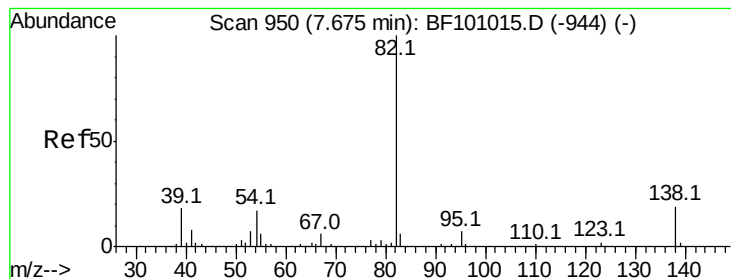
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 187248 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 8.1   | 6.6   | 9.8    |
| 68       | 4.3   | 5.0   | 7.4#   |



#23  
Nitrobenzene-d5  
Concen: 79.666 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: BF101237.D  
Acq: 8 Dec 2017 15:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 250068 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.3  | 36.1  | 54.1   |
| 54       | 54.4  | 41.4  | 62.2   |





#25

Isophorone

Concen: 46.639 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.26 min

Lab File: BF101237.D

Acq: 8 Dec 2017 15:56

Instrument :

BNA\_F

ClientSampled :

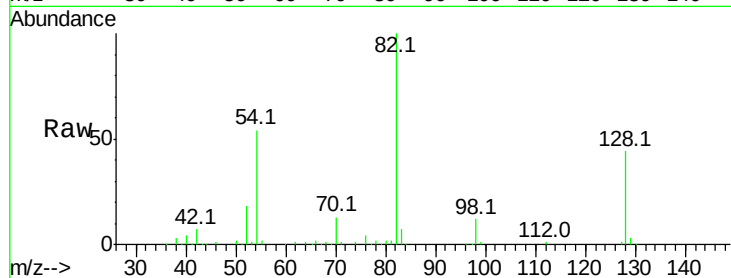
Tot Ion: 82 Resp: 250064

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

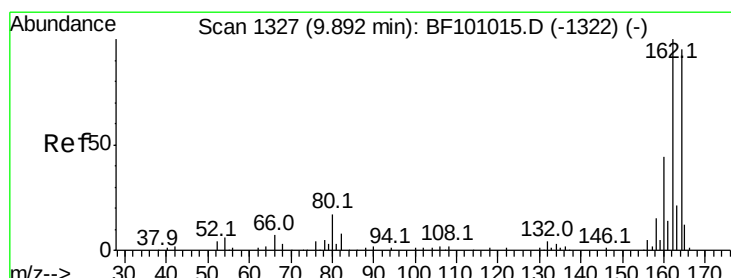
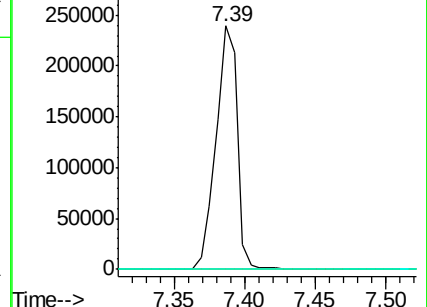
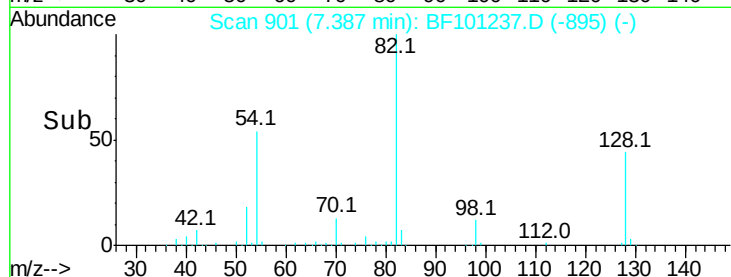
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF101237.D

Acq: 8 Dec 2017 15:56

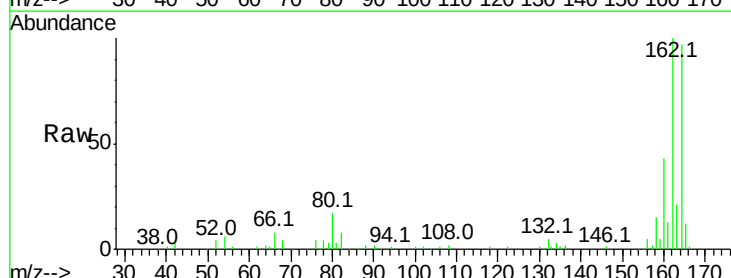
Tgt Ion:164 Resp: 93123

Ion Ratio Lower Upper

164 100

162 103.3 86.1 129.1

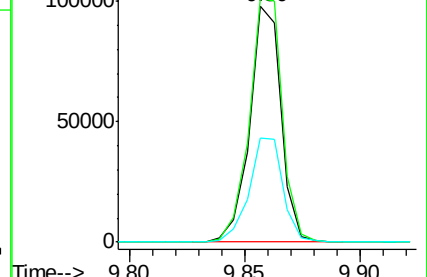
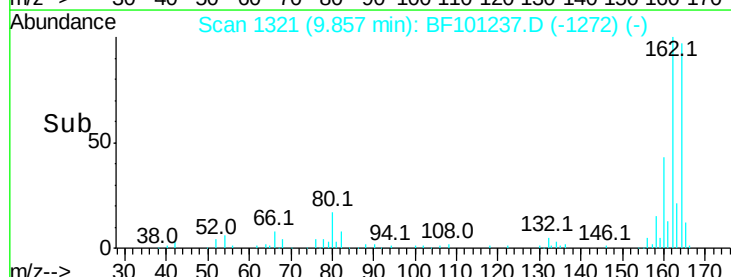
160 44.2 38.3 57.5

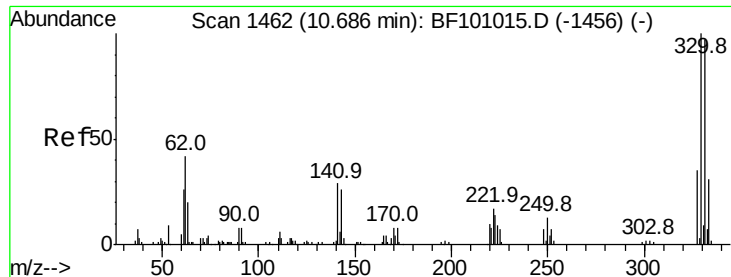


Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





#41

2,4,6-Tribromophenol

Concen: 115.958 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.01 min

Lab File: BF101237.D

Acq: 8 Dec 2017 15:56

Instrument :

BNA\_F

ClientSampleId :

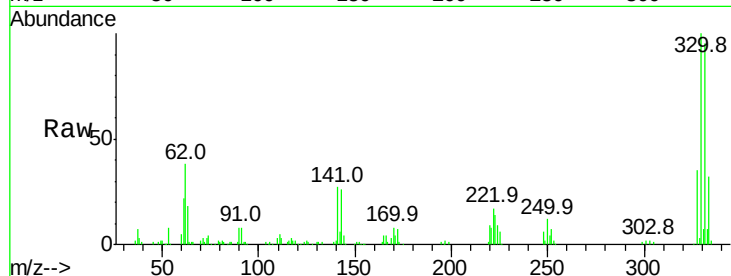
Tot Ion:330 Resp: 129719

Ion Ratio Lower Upper

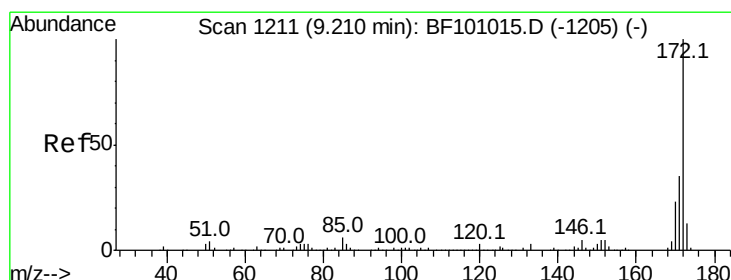
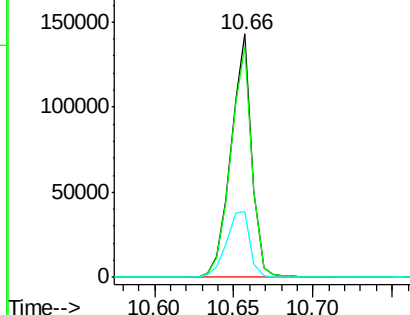
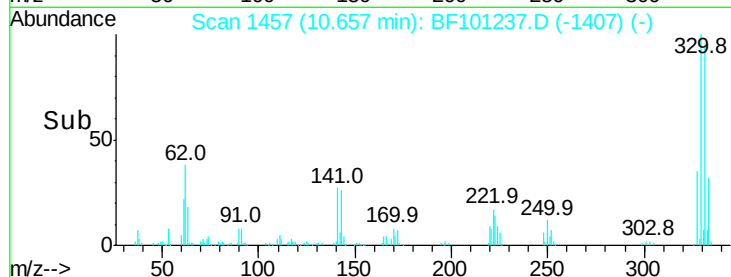
330 100

332 96.8 77.0 115.6

141 30.7 29.9 44.9



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: 83.685 ng

RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF101237.D

Acq: 8 Dec 2017 15:56

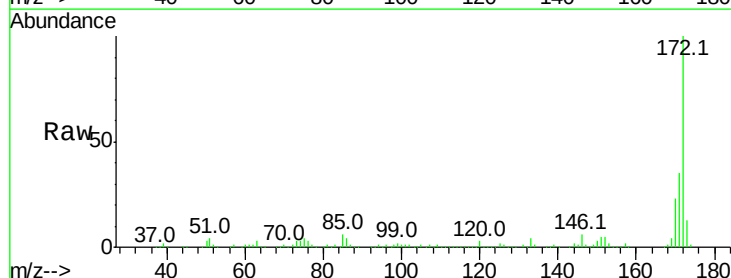
Tgt Ion:172 Resp: 569584

Ion Ratio Lower Upper

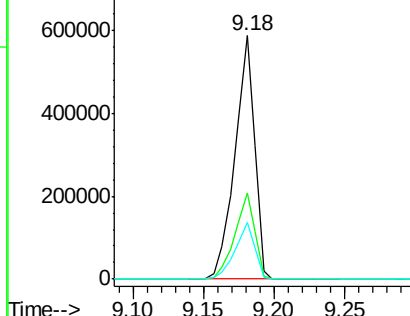
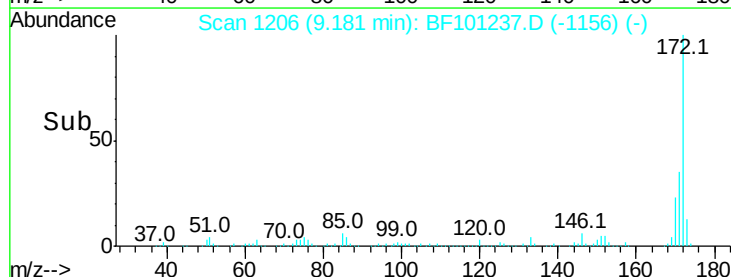
172 100

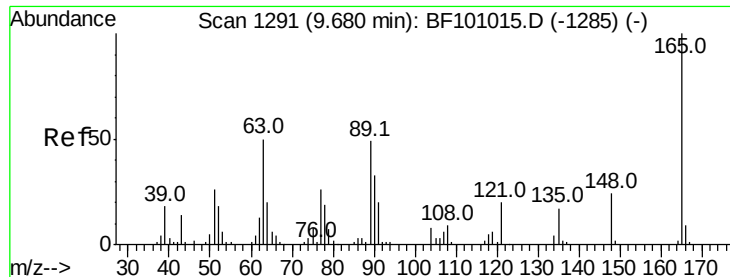
171 35.3 29.7 44.5

170 23.5 19.6 29.4



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

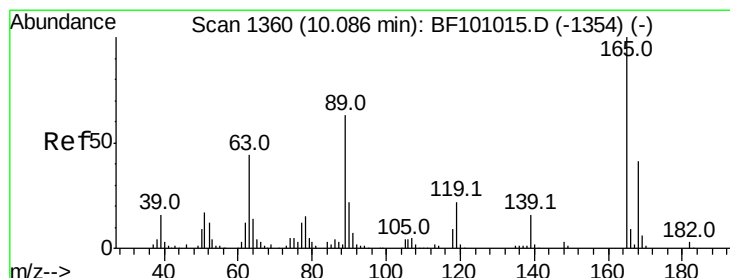
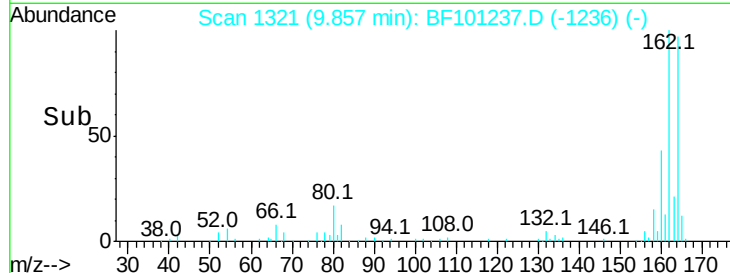
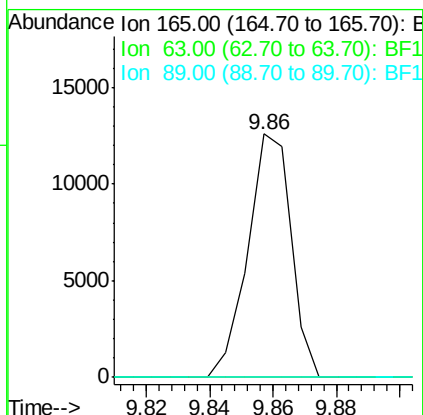
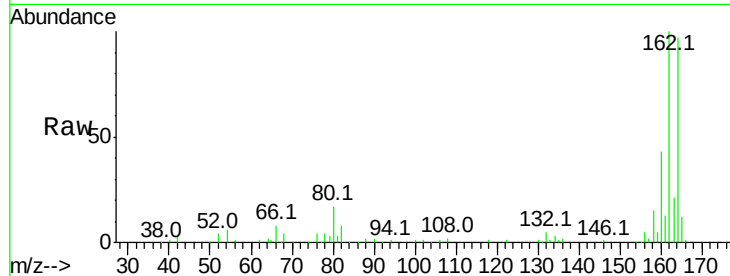




#50  
 2,6-Dinitrotoluene  
 Concen: 7.557 ng  
 RT: 9.86 min Scan# 1321  
 Delta R.T. 0.20 min  
 Lab File: BF101237.D  
 Acq: 8 Dec 2017 15:56

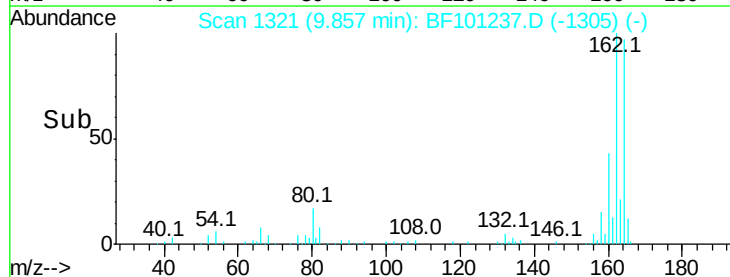
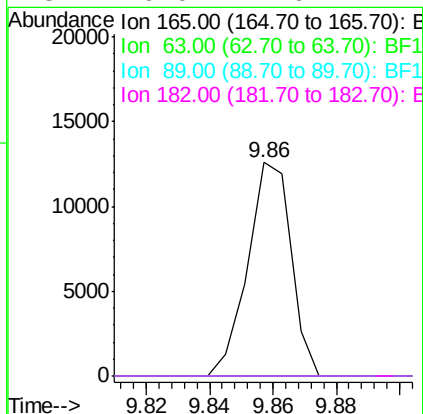
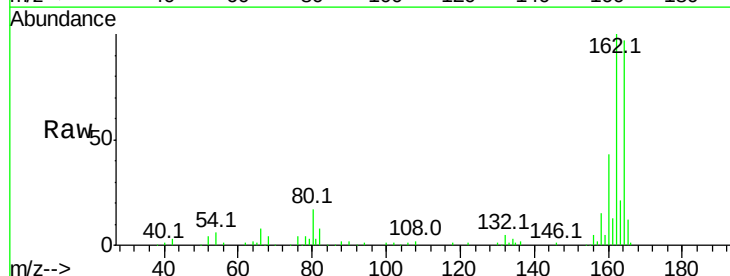
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |

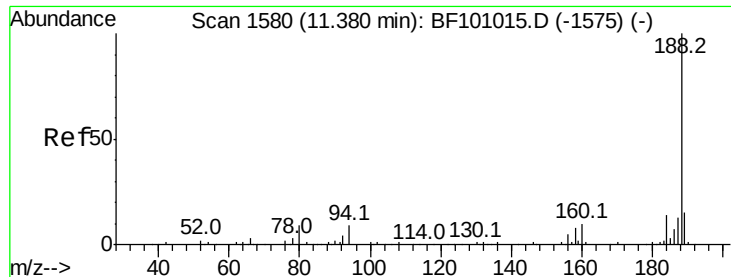


#56  
 2,4-Dinitrotoluene  
 Concen: 5.638 ng  
 RT: 9.86 min Scan# 1321  
 Delta R.T. -0.21 min  
 Lab File: BF101237.D  
 Acq: 8 Dec 2017 15:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 36.4  | 54.6# |
| 89      | 0.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



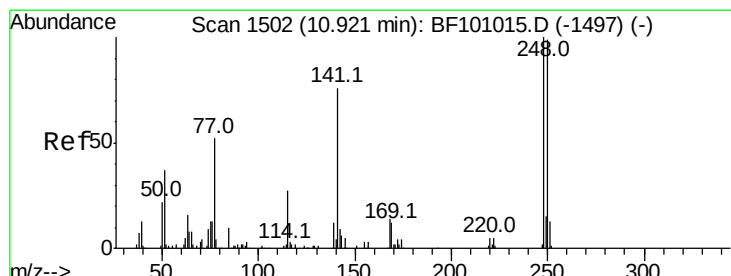
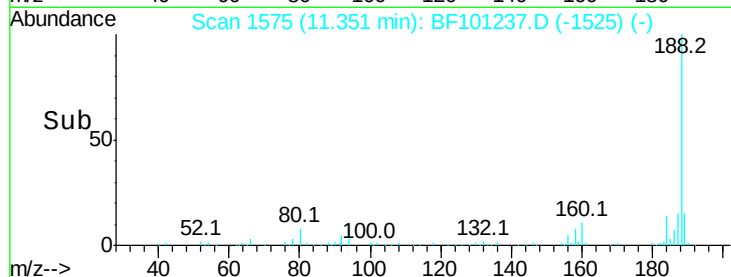
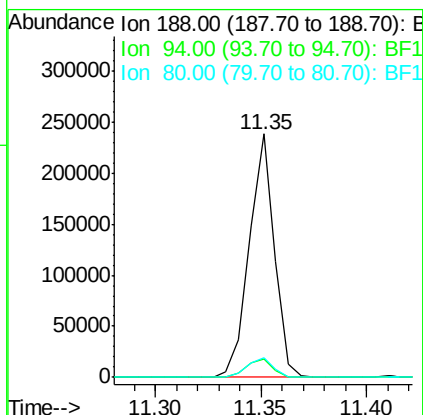
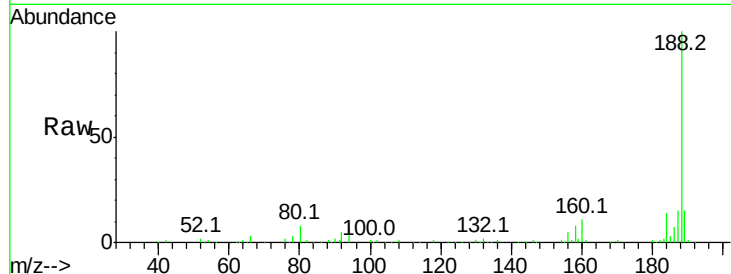




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.35 min Scan# 1575  
 Delta R.T. -0.01 min  
 Lab File: BF101237.D  
 Acq: 8 Dec 2017 15:56

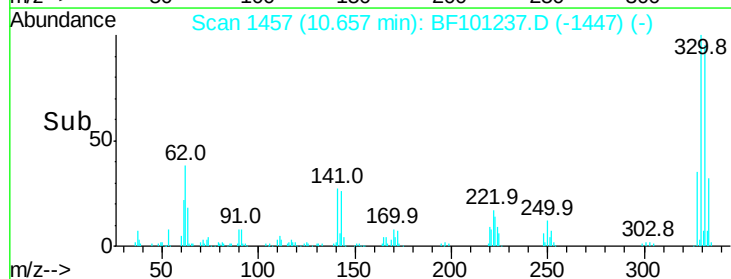
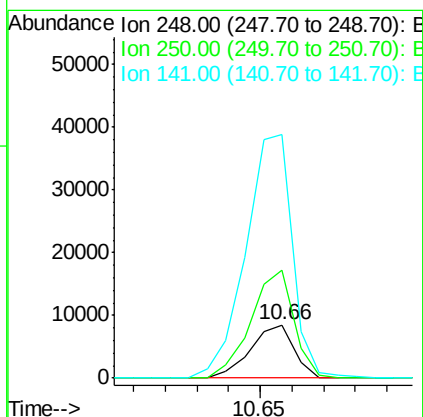
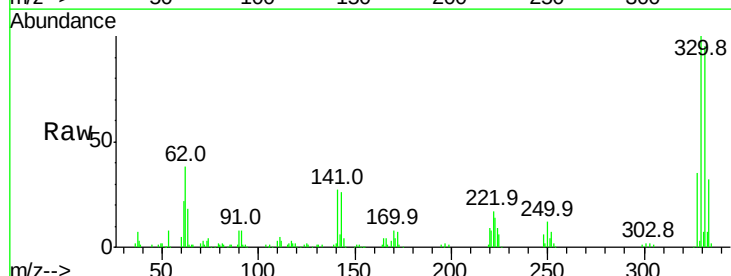
Instrument :  
 BNA\_F  
 ClientSampleId :

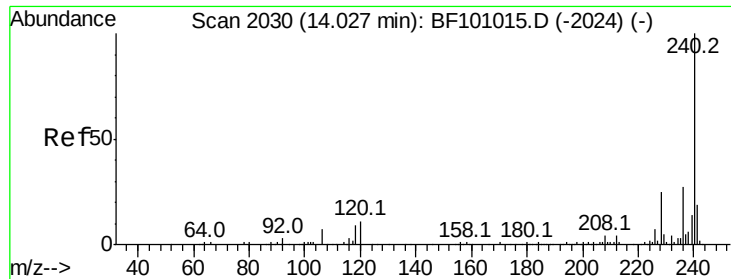
Tot Ion:188 Resp: 197119  
 Ion Ratio Lower Upper  
 188 100  
 94 7.7 8.5 12.7#  
 80 7.9 9.2 13.8#



#66  
 4-Bromophenyl-phenylether  
 Concen: 3.663 ng  
 RT: 10.66 min Scan# 1457  
 Delta R.T. -0.24 min  
 Lab File: BF101237.D  
 Acq: 8 Dec 2017 15:56

Tgt Ion:248 Resp: 8083  
 Ion Ratio Lower Upper  
 248 100  
 250 200.7 76.9 115.3#  
 141 455.3 74.4 111.6#

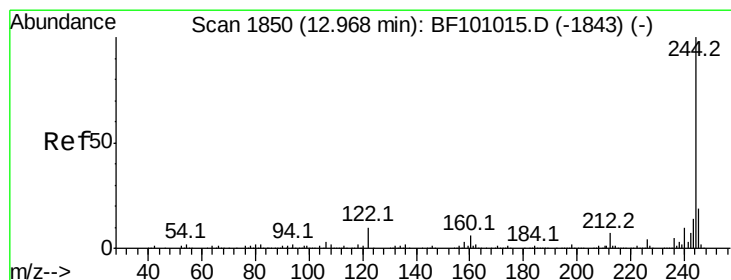
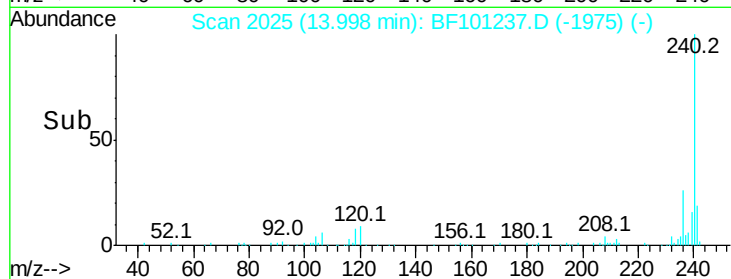
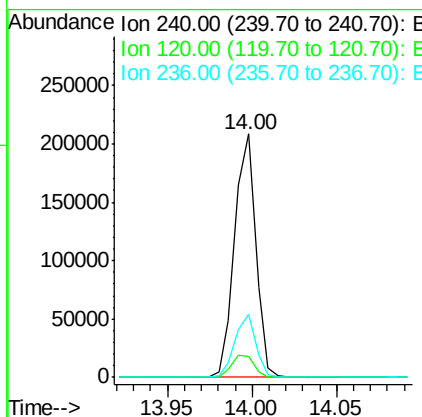
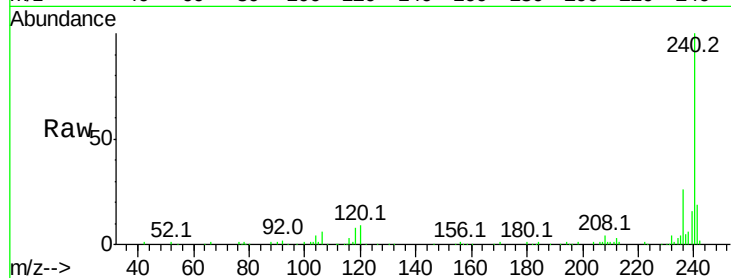




#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.00 min Scan# 2025  
 Delta R.T. -0.01 min  
 Lab File: BF101237.D  
 Acq: 8 Dec 2017 15:56

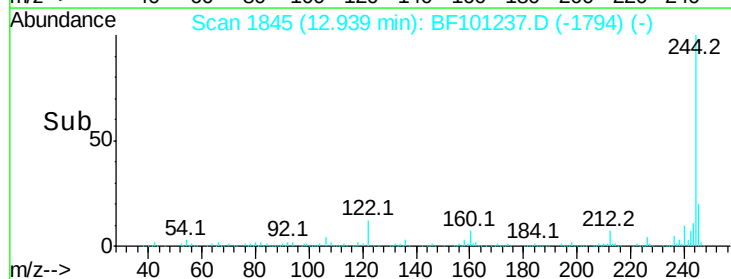
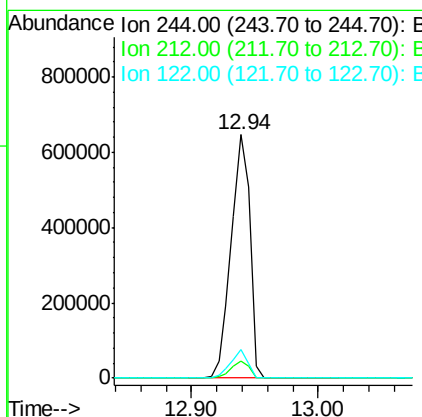
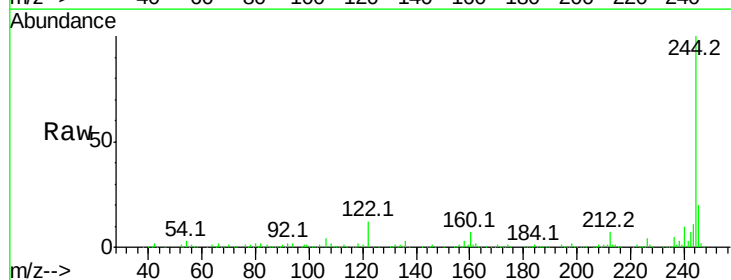
Instrument :  
 BNA\_F  
 ClientSampled :

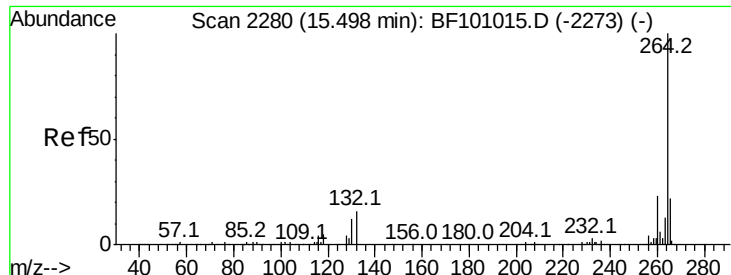
Tot Ion:240 Resp: 182334  
 Ion Ratio Lower Upper  
 240 100  
 120 8.7 9.5 14.3#  
 236 25.8 20.7 31.1



#78  
 Terphenyl-d14  
 Concen: 78.857 ng  
 RT: 12.94 min Scan# 1845  
 Delta R.T. 0.00 min  
 Lab File: BF101237.D  
 Acq: 8 Dec 2017 15:56

Tgt Ion:244 Resp: 657362  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.4 8.0  
 122 11.7 11.0 16.4

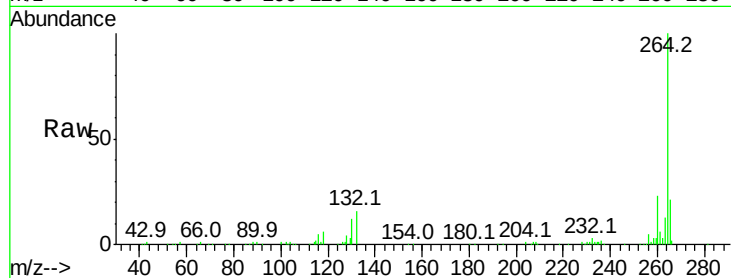




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2274  
 Delta R.T. -0.01 min  
 Lab File: BF101237.D  
 Acq: 8 Dec 2017 15:56

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:264 Resp: 157572  
 Ion Ratio Lower Upper  
 264 100  
 260 23.5 19.2 28.8  
 265 21.1 17.5 26.3



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

