

Data Path : U:\HPCHEM1\BNA F\DATA\BF011618\  
 Data File : BF102142.D  
 Acq On : 17 Jan 2018 6:51  
 Operator : SJ/JU  
 Sample : J1113-07  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 17 07:43:07 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 11 12:53:54 2018  
 Response via : Initial Calibration

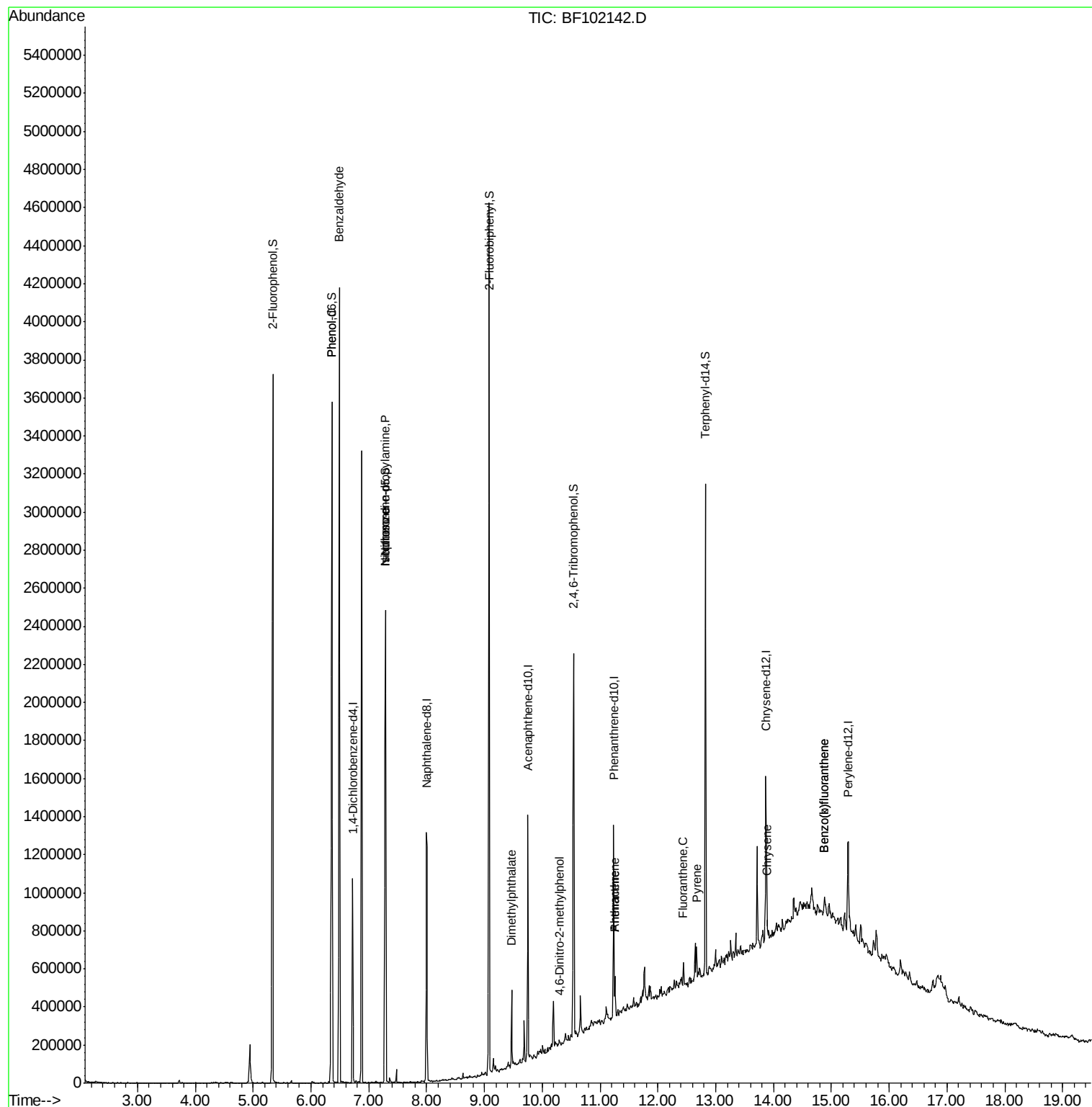
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 158234   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 607463   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 246063   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.23 | 188  | 338343   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.87 | 240  | 275598   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.29 | 264  | 231696   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 1238407  | 110.52 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.36  | 99   | 1453862  | 108.74 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 941657   | 91.09  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 258133   | 120.21 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 1430508  | 90.82  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.82 | 244  | 891065   | 67.13  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.49  | 77   | 28147    | 3.032  | ng    | 80       |
| 10) Phenol                     | 6.37  | 94   | 31567    | 2.089  | ng    | # 46     |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 128284   | 14.642 | ng    | # 81     |
| 25) Isophorone                 | 7.29  | 82   | 941646   | 46.101 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.47  | 163  | 149639   | 7.581  | ng    | 99       |
| 64) 4,6-Dinitro-2-methylphenol | 10.29 | 198  | 126      | 5.723  | ng    | # 1      |
| 70) Phenanthrene               | 11.26 | 178  | 68795    | 3.481  | ng    | 98       |
| 71) Anthracene                 | 11.26 | 178  | 68795    | 3.432  | ng    | 98       |
| 74) Fluoranthene               | 12.44 | 202  | 51786    | 2.663  | ng    | 91       |
| 77) Pyrene                     | 12.67 | 202  | 69043    | 2.834  | ng    | 97       |
| 82) Chrysene                   | 13.89 | 228  | 37601    | 2.051  | ng    | # 90     |
| 87) Benzo(b)fluoranthene       | 14.88 | 252  | 39613    | 2.622  | ng    | # 33     |
| 88) Benzo(k)fluoranthene       | 14.88 | 252  | 39613    | 2.718  | ng    | # 37     |

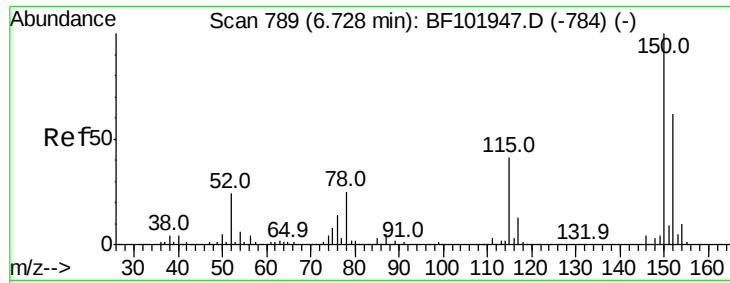
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\HPCHEM1\BNA F\DATA\BF011618\  
Data File : BF102142.D  
Acq On : 17 Jan 2018 6:51  
Operator : SJ/JU  
Sample : J1113-07  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jan 17 07:43:07 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 11 12:53:54 2018  
Response via : Initial Calibration



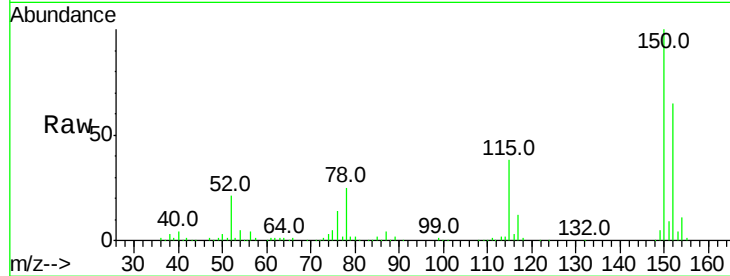


#1

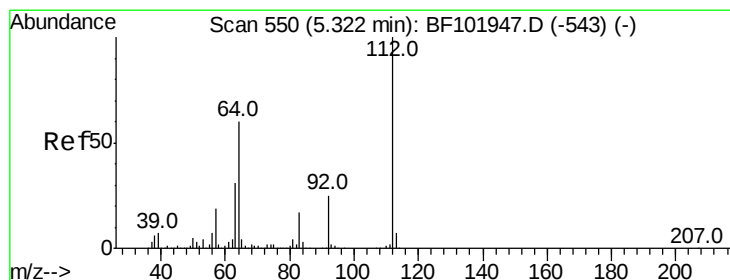
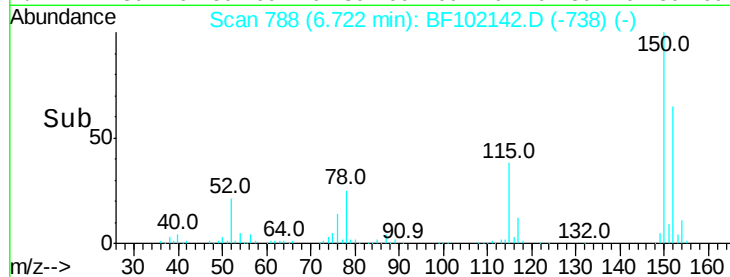
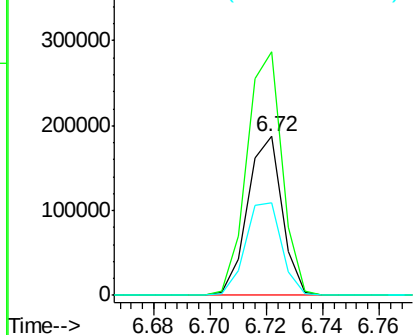
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: BF102142.D  
Acq: 17 Jan 2018 6:51

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.5 | 124.6 | 186.8 |
| 115     | 58.5  | 50.1  | 75.1  |



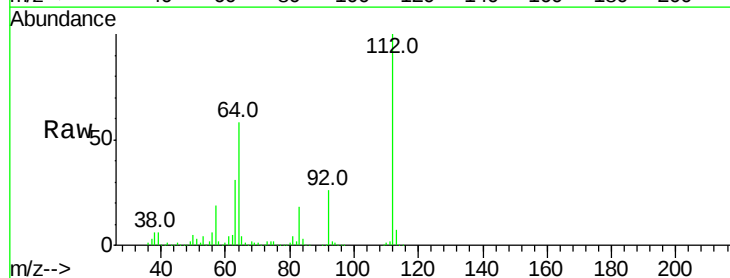
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



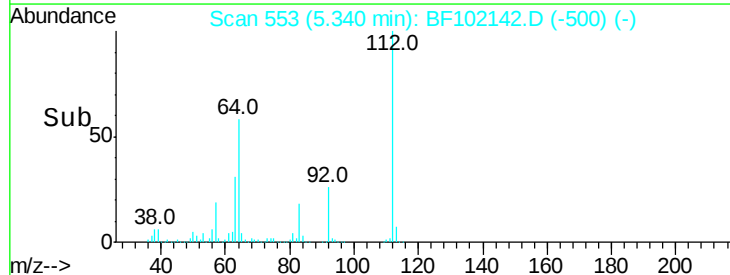
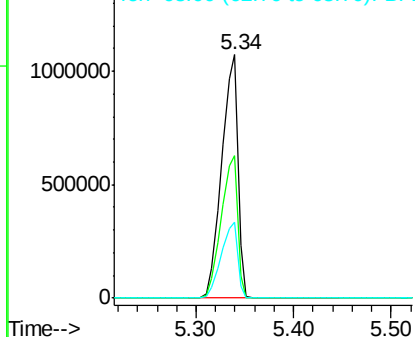
#5

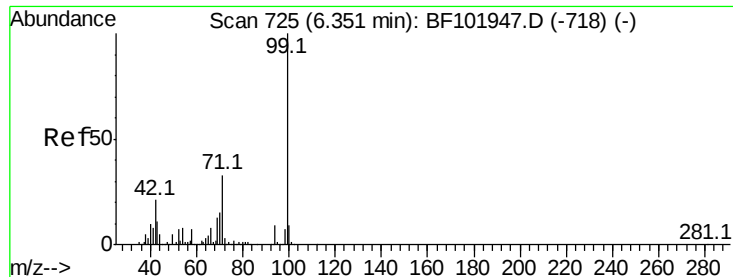
2-Fluorophenol  
Concen: 110.516 ng  
RT: 5.34 min Scan# 553  
Delta R.T. 0.01 min  
Lab File: BF102142.D  
Acq: 17 Jan 2018 6:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.5  | 47.9  | 71.9  |
| 63      | 31.4  | 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: 108.744 ng

RT: 6.36 min Scan# 727

Delta R.T. 0.00 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

Instrument :

BNA\_F

ClientSampleId :

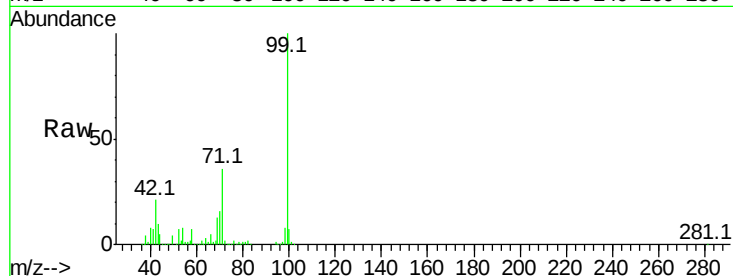
Tot Ion: 99 Resp: 1453862

Ion Ratio Lower Upper

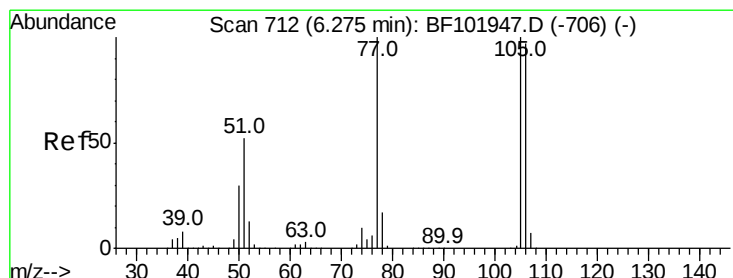
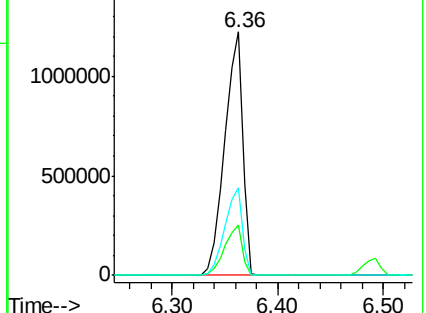
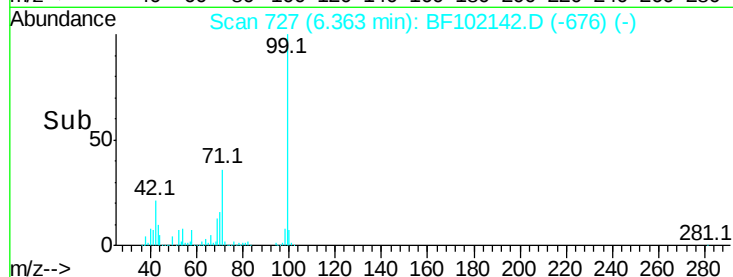
99 100

42 20.5 14.5 21.7

71 35.9 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



#9

Benzaldehyde

Concen: 3.032 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.22 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

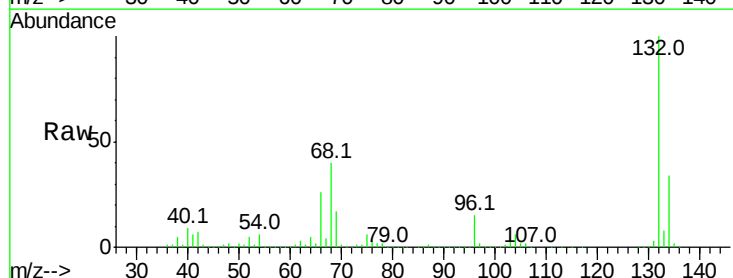
Tgt Ion: 77 Resp: 28147

Ion Ratio Lower Upper

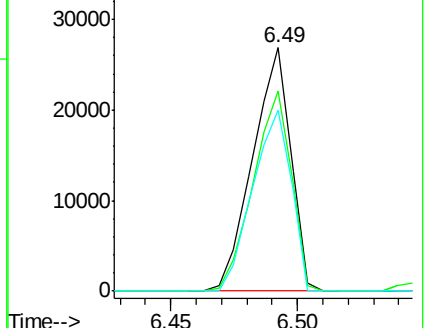
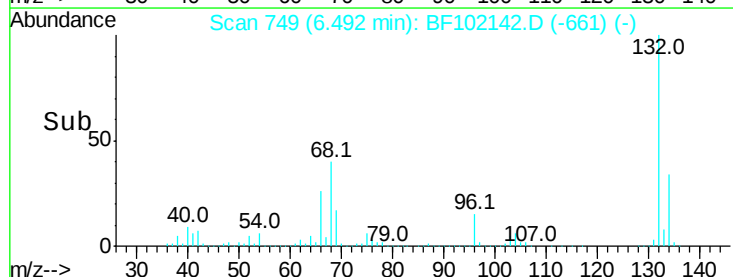
77 100

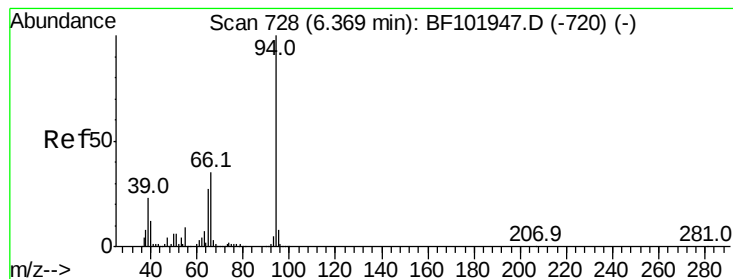
105 82.4 81.1 121.1

106 74.6 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1





#10

Phenol

Concen: 2.089 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

Instrument :

BNA\_F

ClientSampleId :

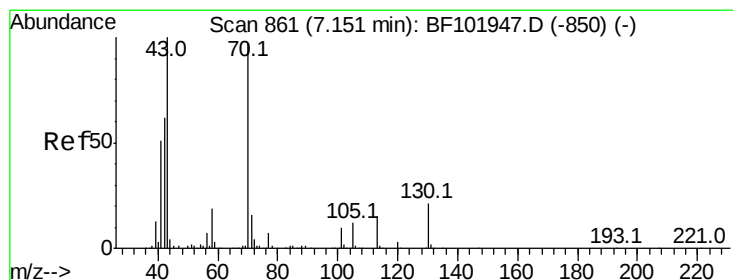
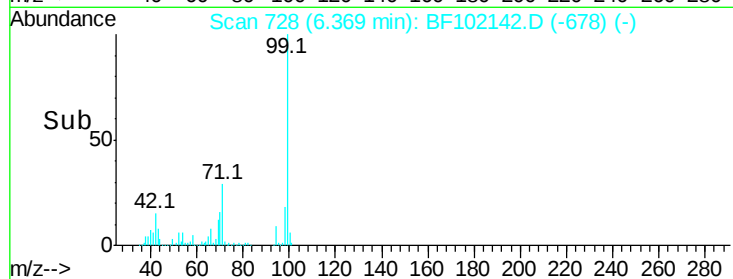
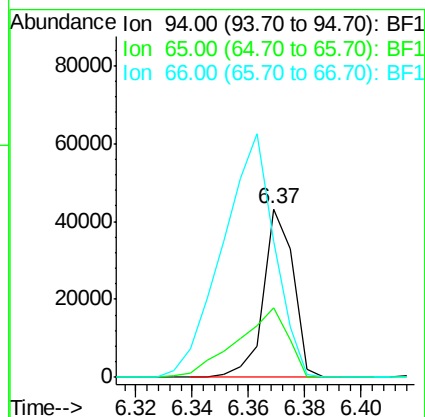
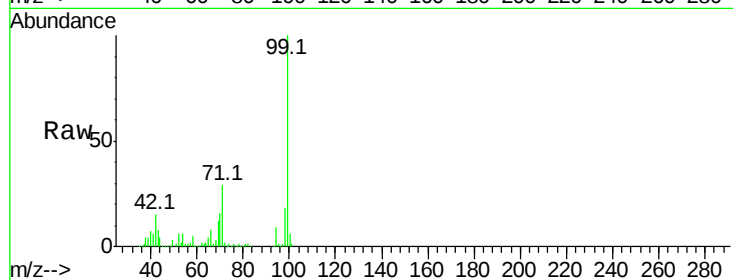
Tot Ion: 94 Resp: 31567

Ion Ratio Lower Upper

94 100

65 41.4 7.9 47.9

66 80.7 16.2 56.2#



#19

n-Nitroso-di-n-propylamine

Concen: 14.642 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.14 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

Tgt Ion: 70 Resp: 128284

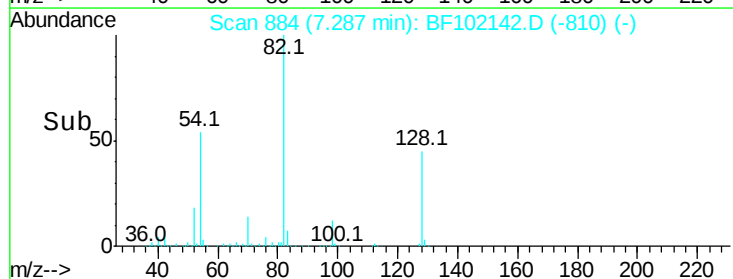
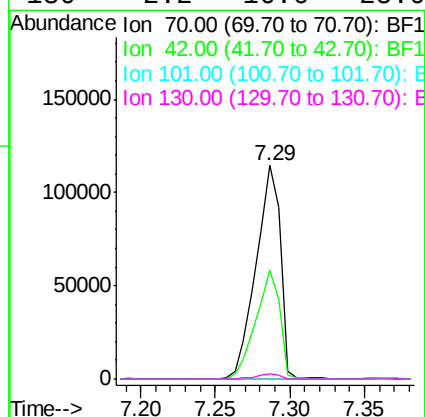
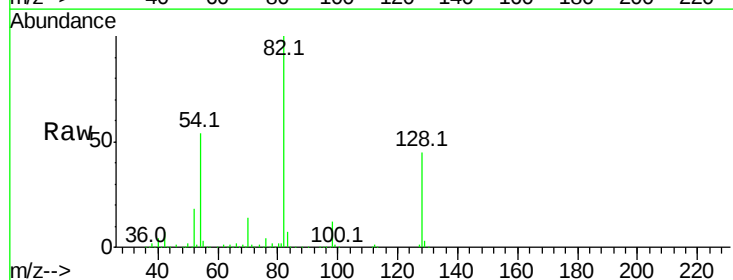
Ion Ratio Lower Upper

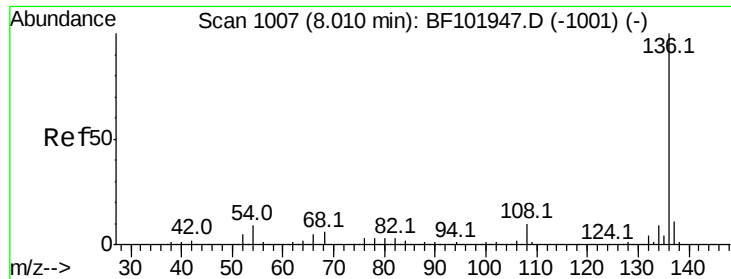
70 100

42 51.2 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

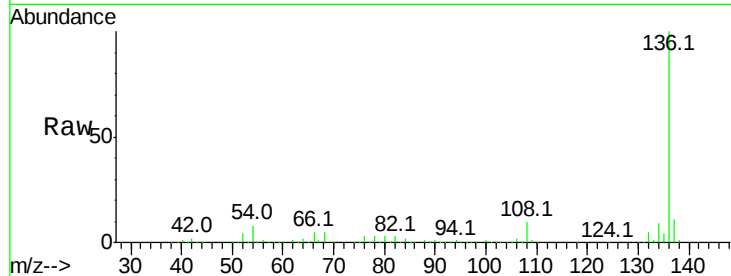




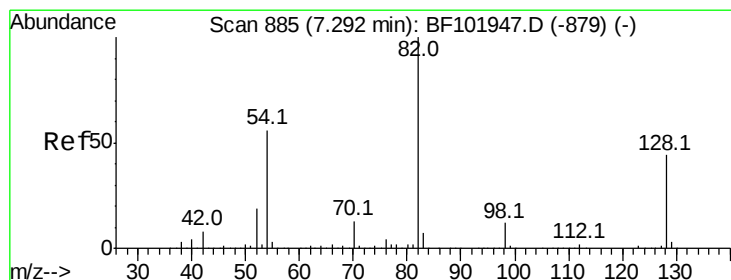
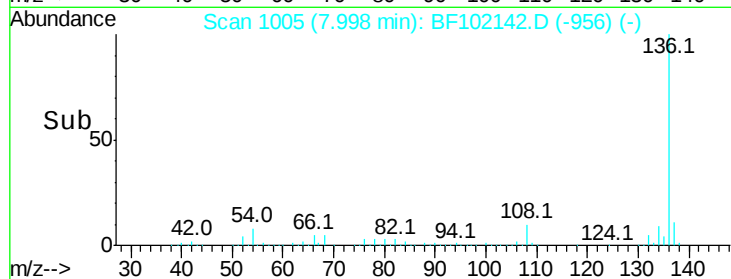
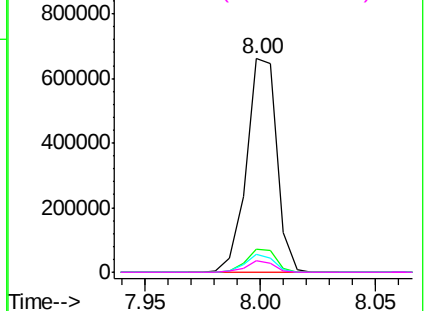
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF102142.D  
Acq: 17 Jan 2018 6:51

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 607463 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.9   | 13.3   |
| 54       | 8.3   | 6.6   | 9.8    |
| 68       | 5.2   | 5.0   | 7.4    |

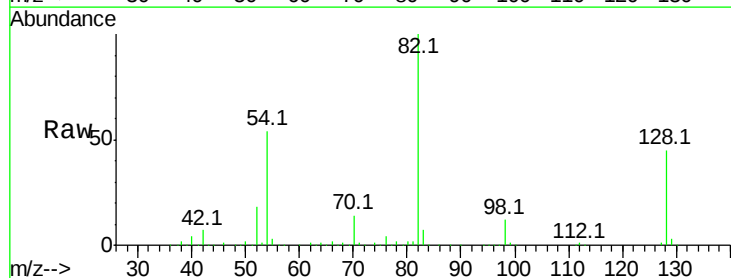


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

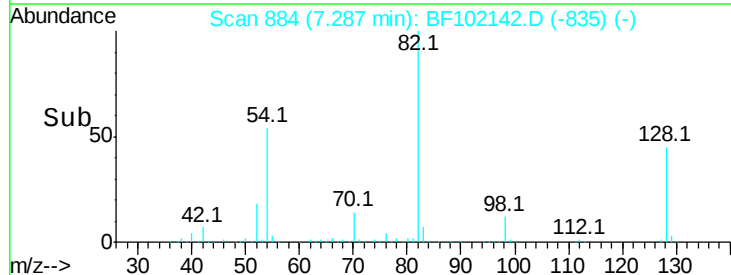
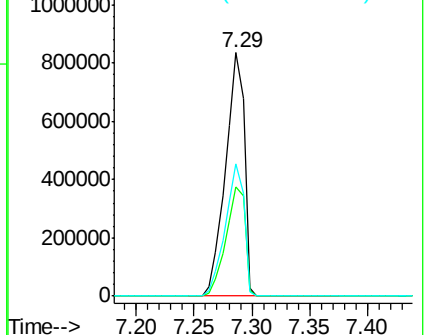


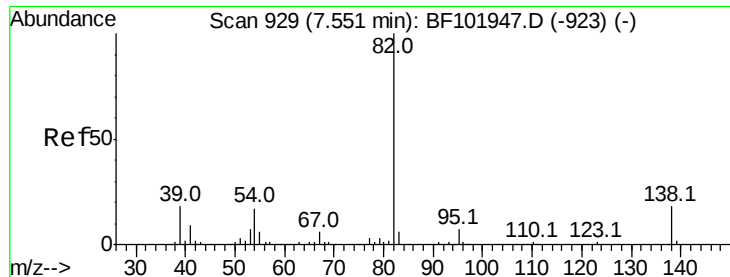
#23  
Nitrobenzene-d5  
Concen: 91.093 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF102142.D  
Acq: 17 Jan 2018 6:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 941657 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.1  | 36.1  | 54.1   |
| 54       | 54.3  | 41.4  | 62.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 46.101 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

Instrument :

BNA\_F

ClientSampleId :

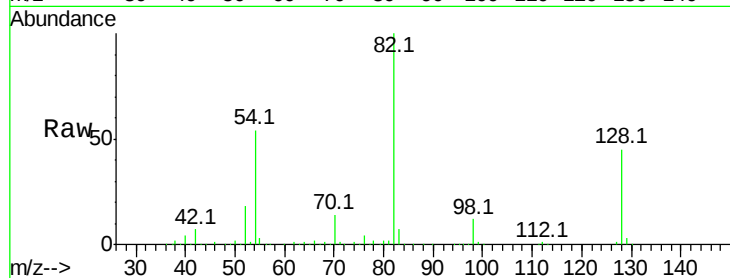
Tot Ion: 82 Resp: 941646

Ion Ratio Lower Upper

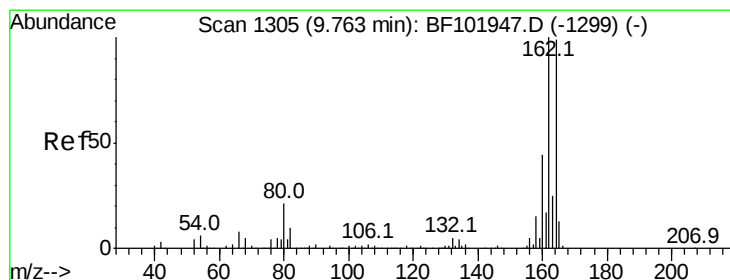
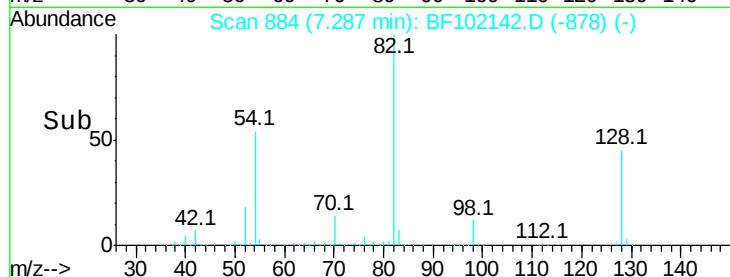
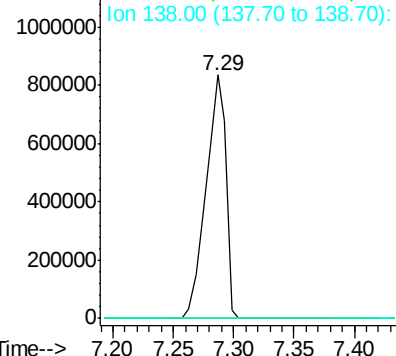
82 100

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: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

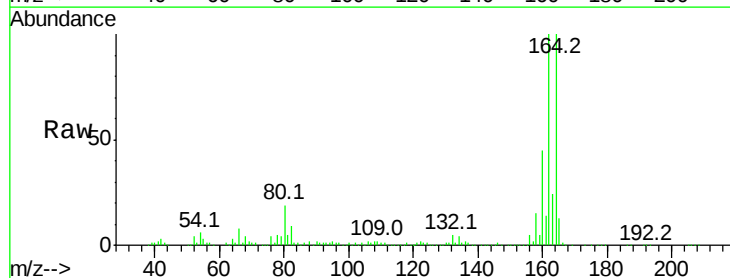
Tgt Ion:164 Resp: 246063

Ion Ratio Lower Upper

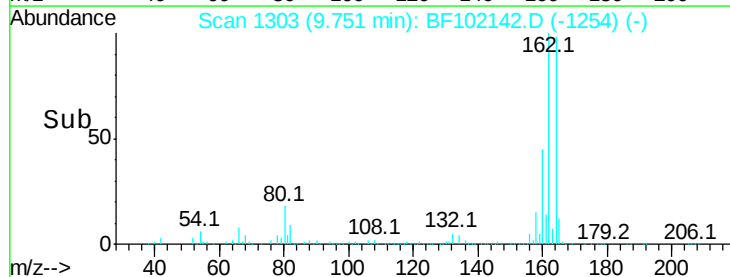
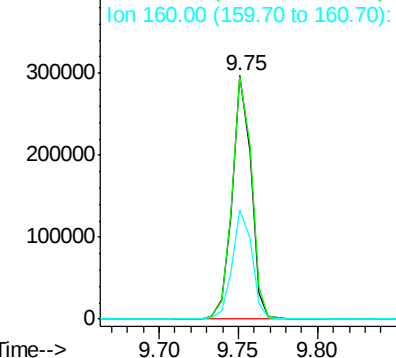
164 100

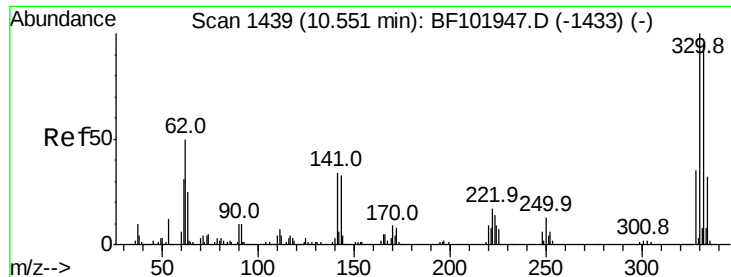
162 99.7 86.1 129.1

160 44.7 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

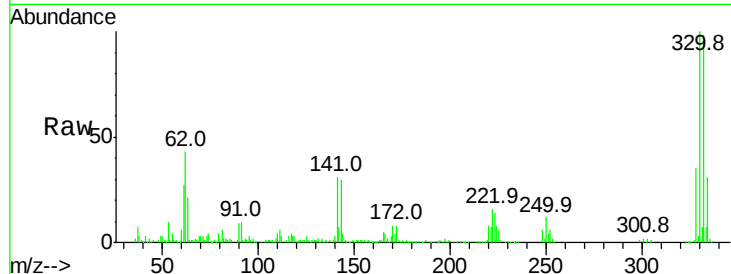




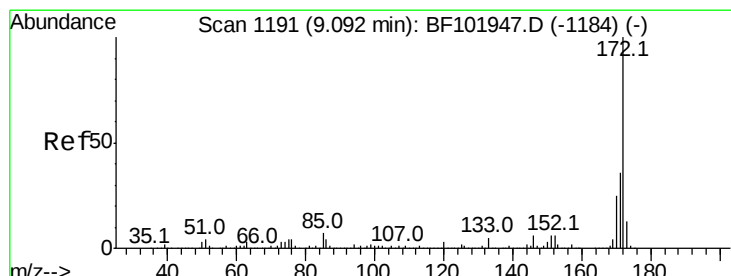
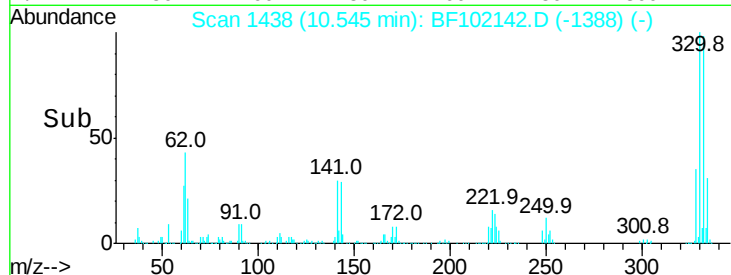
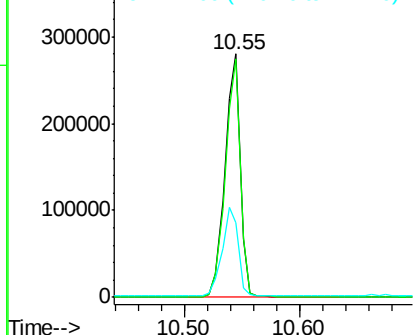
#41  
 2,4,6-Tribromophenol  
 Concen: 120.209 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF102142.D  
 Acq: 17 Jan 2018 6:51

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 258133  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 77.0 115.6  
 141 38.3 29.9 44.9

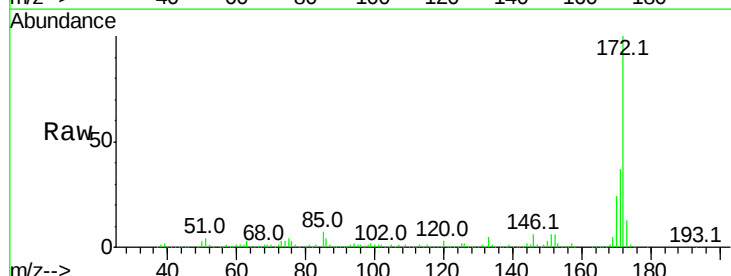


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

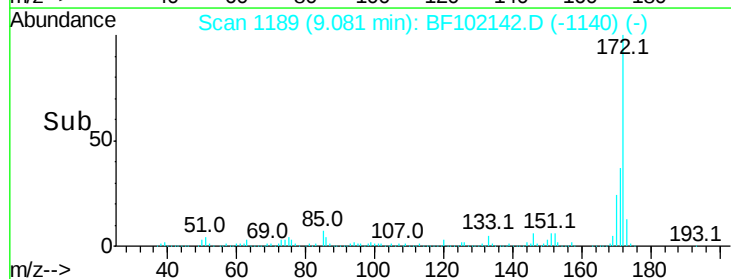
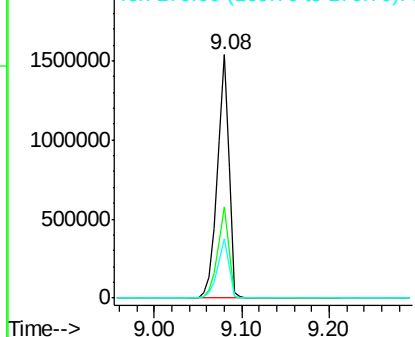


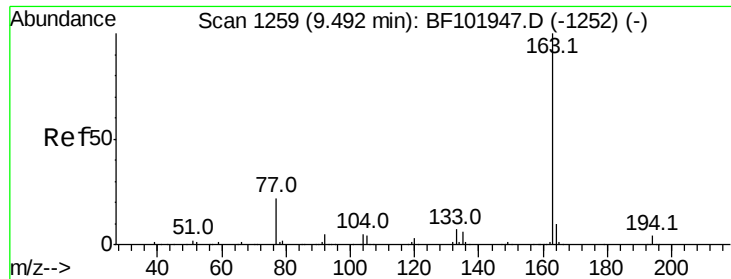
#44  
 2-Fluorobiphenyl  
 Concen: 90.824 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF102142.D  
 Acq: 17 Jan 2018 6:51

Tgt Ion:172 Resp: 1430508  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 29.7 44.5  
 170 24.2 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

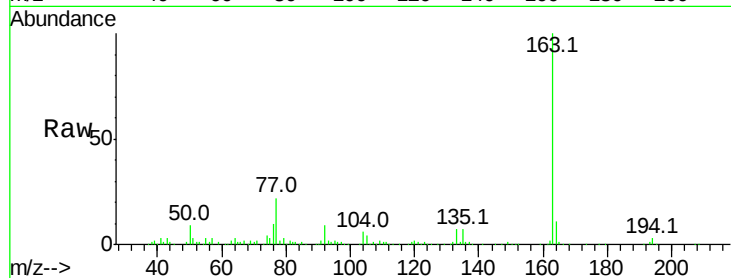




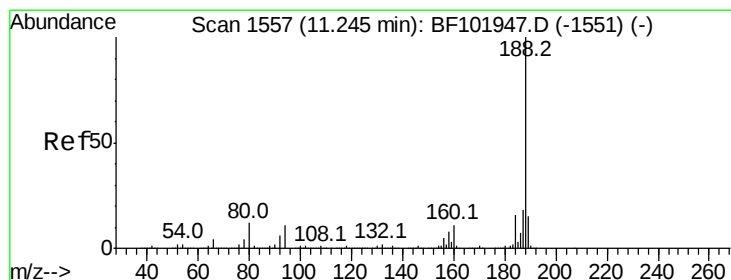
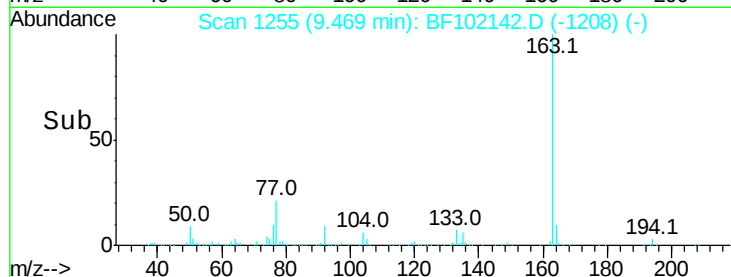
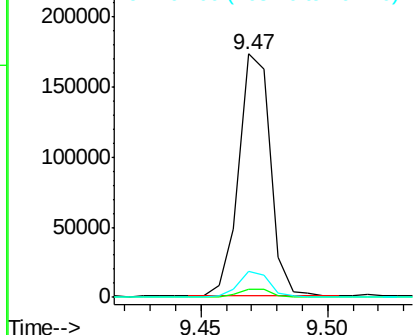
#49  
Dimethylphthalate  
Concen: 7.581 ng  
RT: 9.47 min Scan# 1255  
Delta R.T. -0.02 min  
Lab File: BF102142.D  
Acq: 17 Jan 2018 6:51

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 149639  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.7 4.1  
164 10.6 8.2 12.2

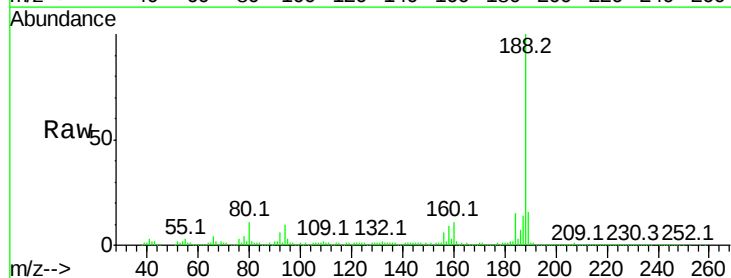


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

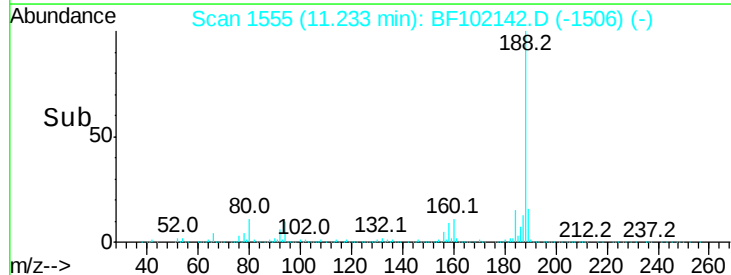
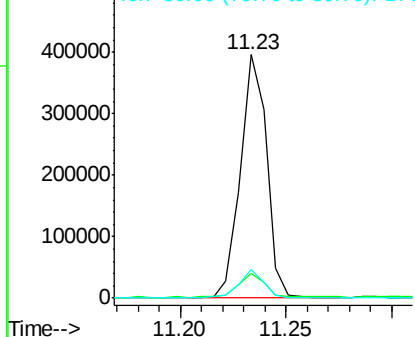


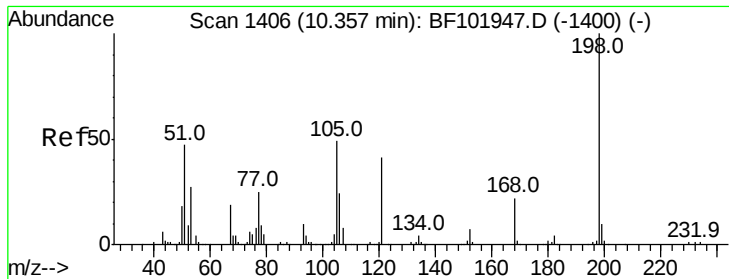
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1555  
Delta R.T. -0.01 min  
Lab File: BF102142.D  
Acq: 17 Jan 2018 6:51

Tgt Ion:188 Resp: 338343  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.5 12.7  
80 11.5 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





#64

4,6-Dinitro-2-methylphenol

Concen: 5.723 ng

RT: 10.29 min Scan# 1395

Delta R.T. -0.06 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

Instrument :

BNA\_F

ClientSampleId :

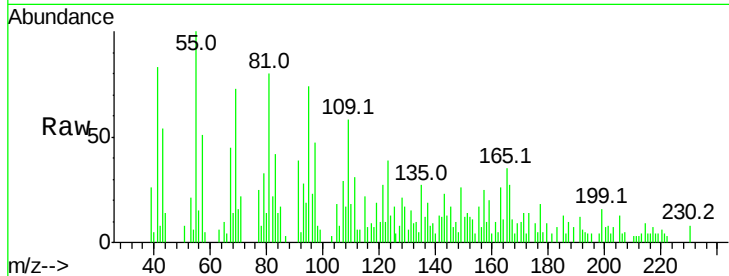
Tot Ion:198 Resp: 126

Ion Ratio Lower Upper

198 100

51 205.6 37.7 77.7#

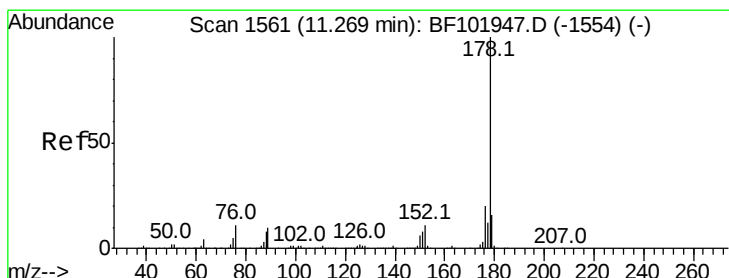
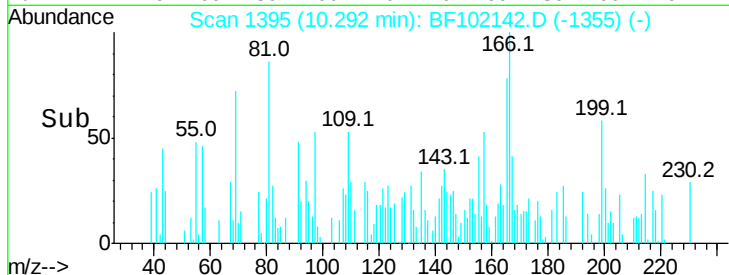
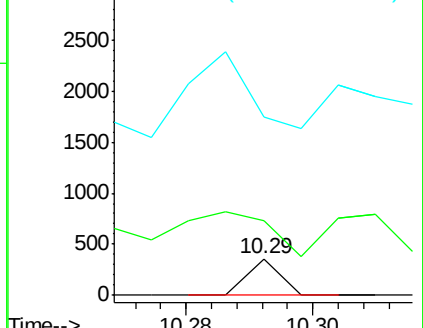
105 491.3 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#70

Phenanthrene

Concen: 3.481 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

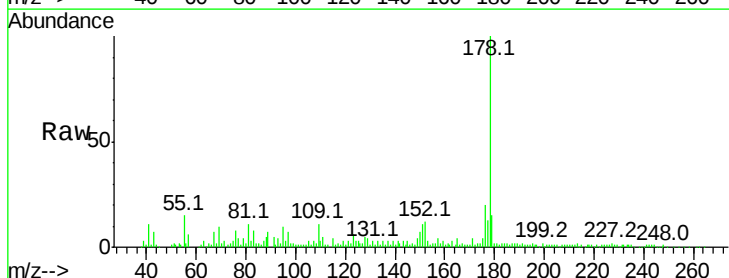
Tgt Ion:178 Resp: 68795

Ion Ratio Lower Upper

178 100

176 20.4 15.8 23.8

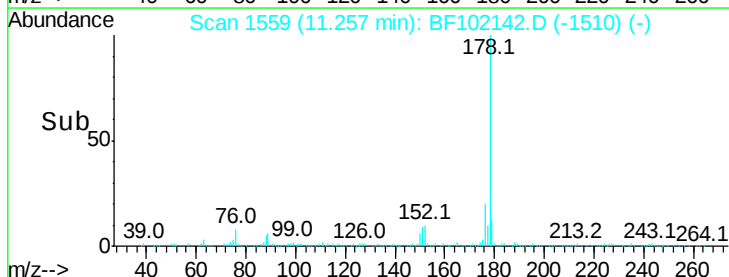
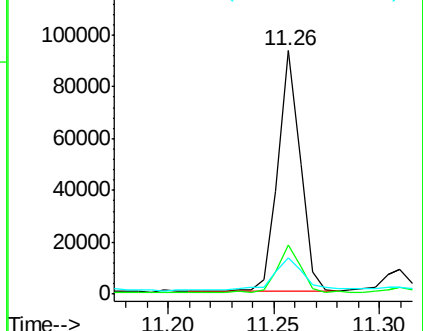
179 14.9 13.0 19.6

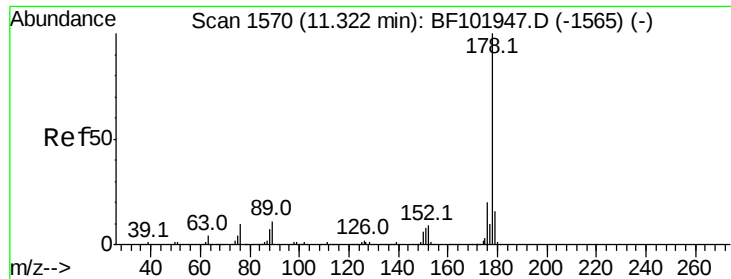


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 3.432 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.06 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

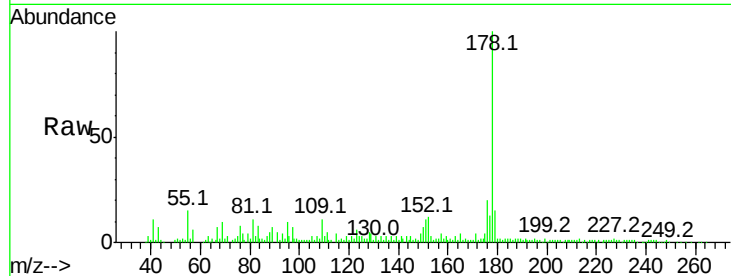
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 68795

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 20.4  | 15.4  | 23.2  |
| 179 | 14.9  | 12.6  | 19.0  |

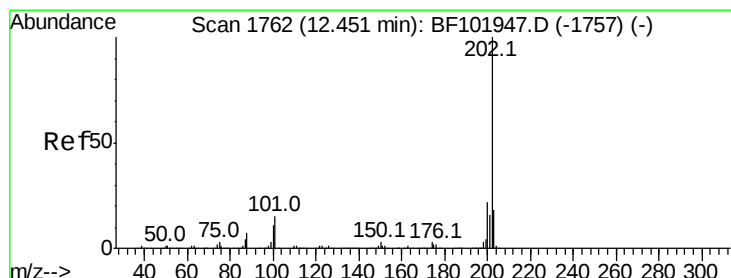
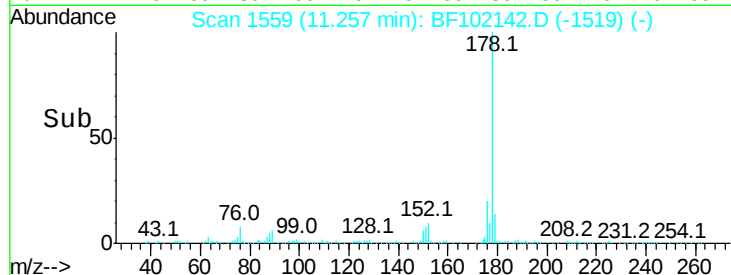
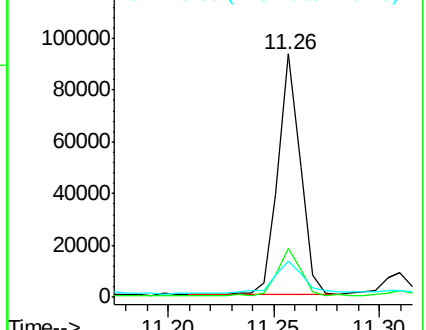


Abundance

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



#74

Fluoranthene

Concen: 2.663 ng

RT: 12.44 min Scan# 1761

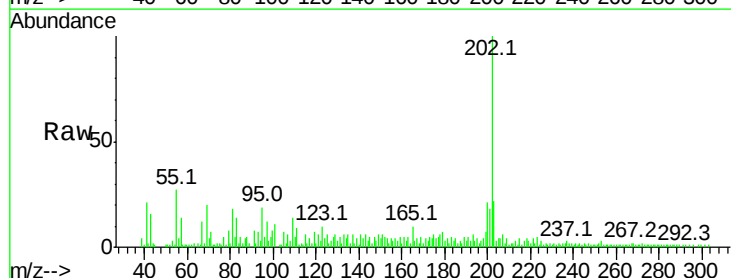
Delta R.T. -0.01 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

Tgt Ion:202 Resp: 51786

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 10.5  | 0.0   | 34.1  |
| 203 | 21.9  | 0.0   | 38.1  |

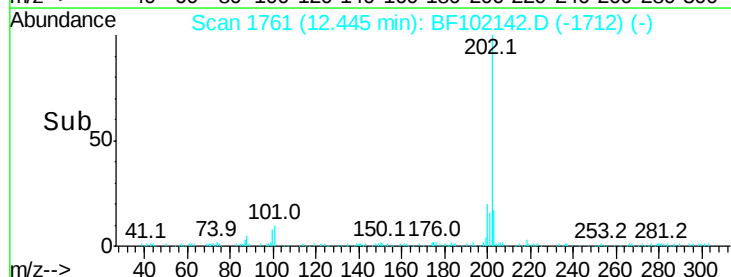
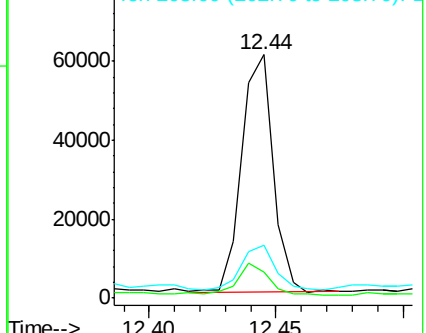


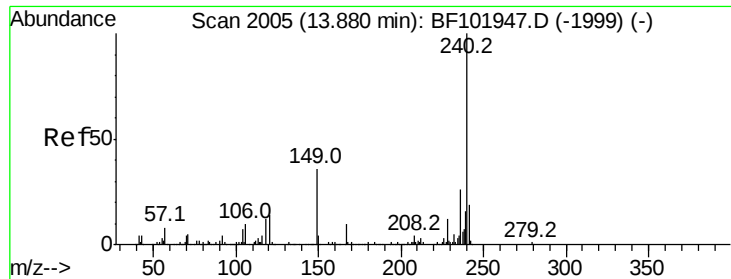
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

Instrument :

BNA\_F

ClientSampleId :

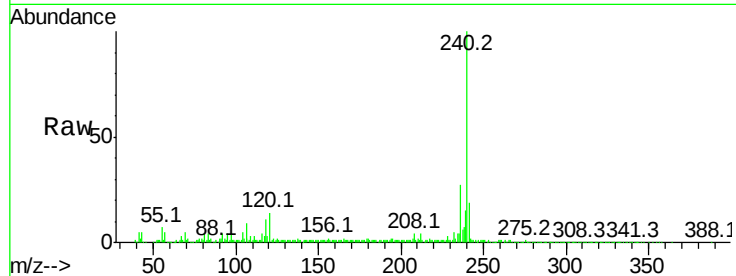
Tot Ion:240 Resp: 275598

Ion Ratio Lower Upper

240 100

120 13.5 9.5 14.3

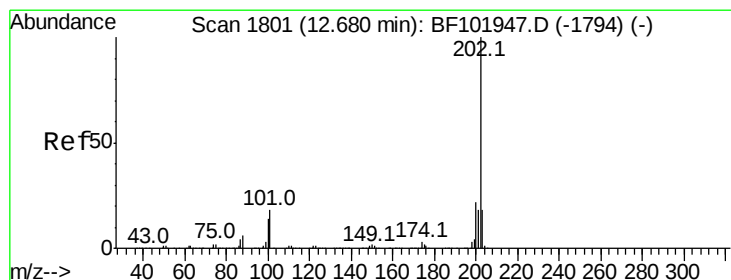
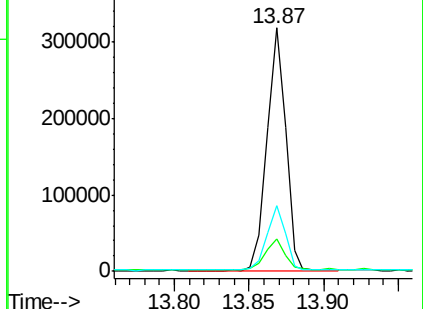
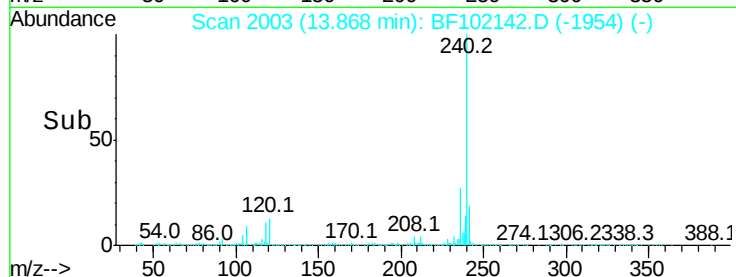
236 27.1 20.7 31.1



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

Pyrene

Concen: 2.834 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

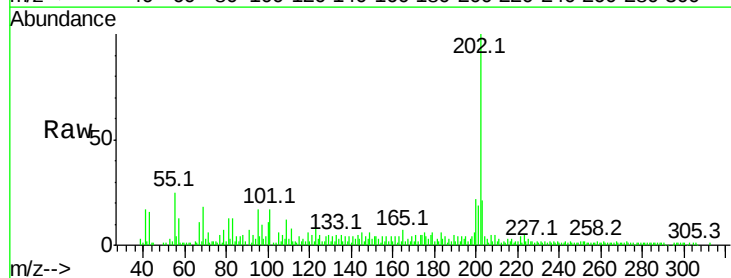
Tgt Ion:202 Resp: 69043

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

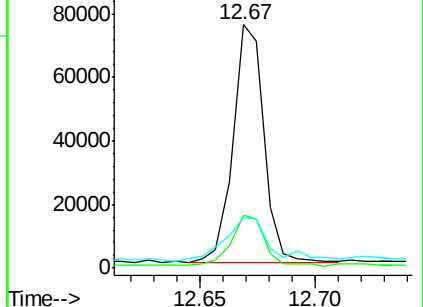
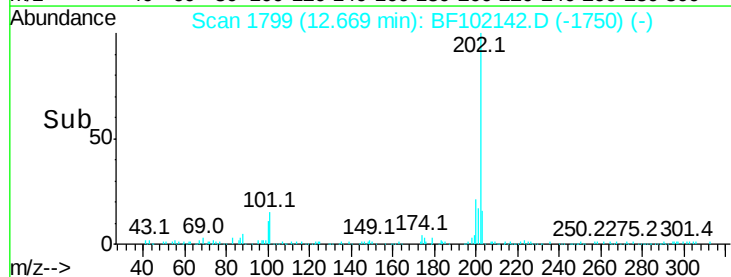
203 20.6 14.3 21.5

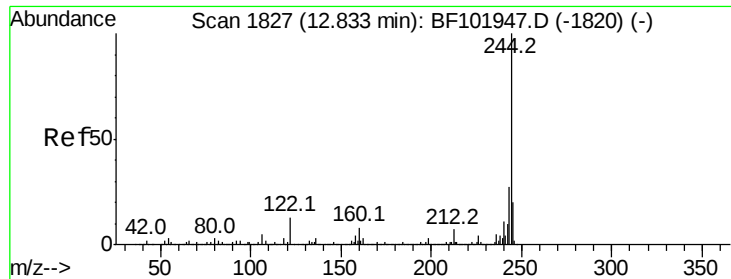


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

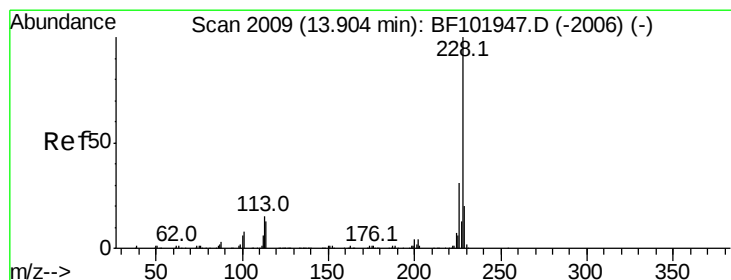
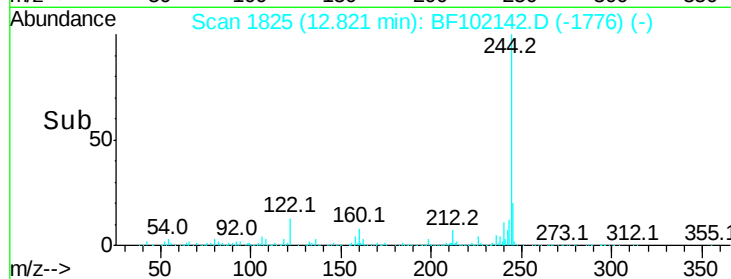
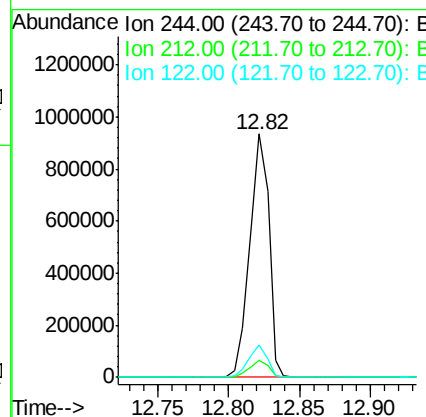
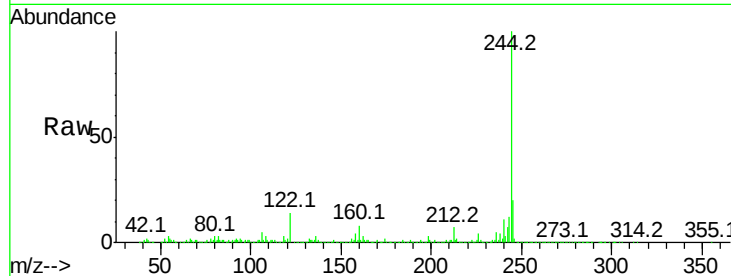




#78  
 Terphenyl-d14  
 Concen: 67.130 ng  
 RT: 12.82 min Scan# 1825  
 Delta R.T. -0.01 min  
 Lab File: BF102142.D  
 Acq: 17 Jan 2018 6:51

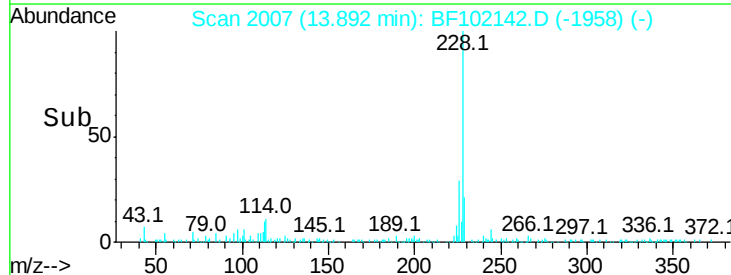
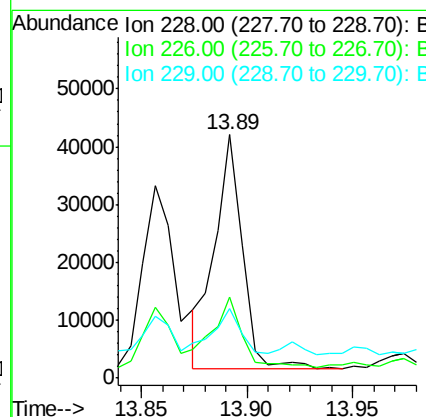
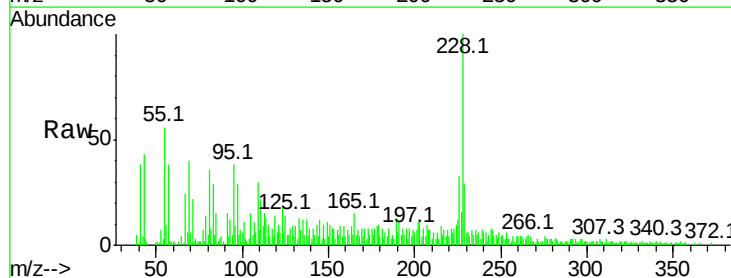
Instrument :  
 BNA\_F  
 ClientSampleId :

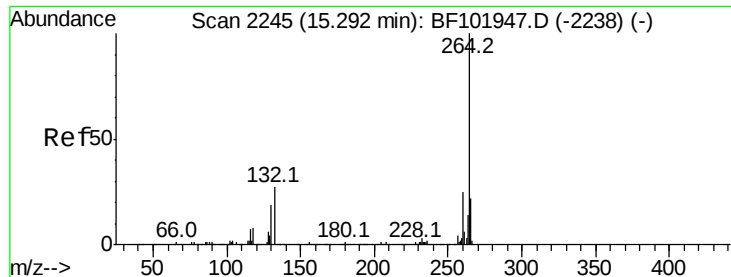
Tot Ion:244 Resp: 891065  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.4 8.0  
 122 13.5 11.0 16.4



#82  
 Chrysene  
 Concen: 2.051 ng  
 RT: 13.89 min Scan# 2007  
 Delta R.T. -0.01 min  
 Lab File: BF102142.D  
 Acq: 17 Jan 2018 6:51

Tgt Ion:228 Resp: 37601  
 Ion Ratio Lower Upper  
 228 100  
 226 33.5 25.0 37.6  
 229 28.7 16.2 24.4#

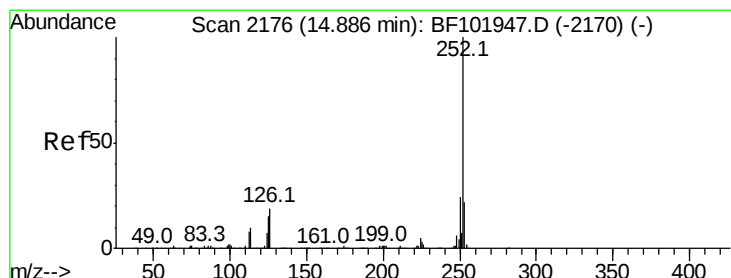
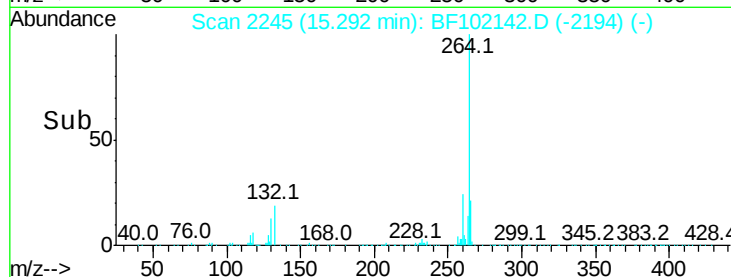
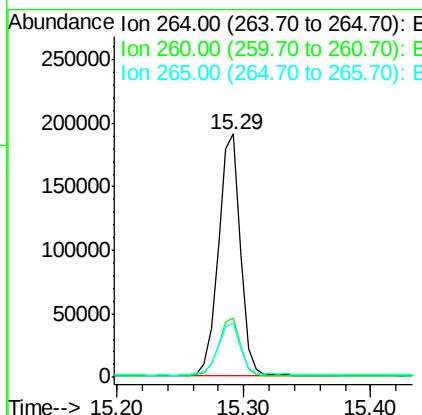
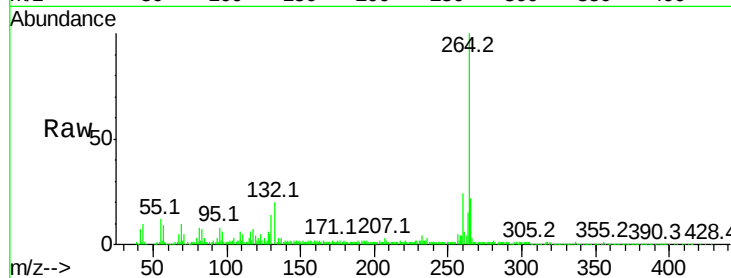




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.29 min Scan# 2245  
Delta R.T. 0.00 min  
Lab File: BF102142.D  
Acq: 17 Jan 2018 6:51

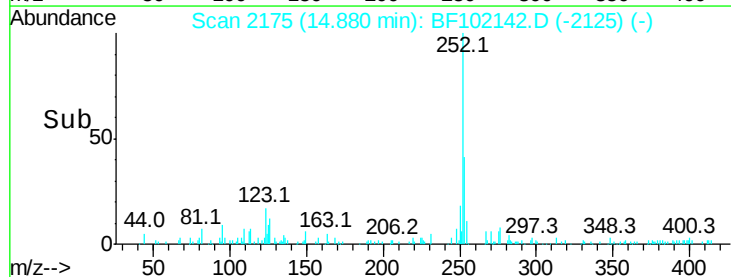
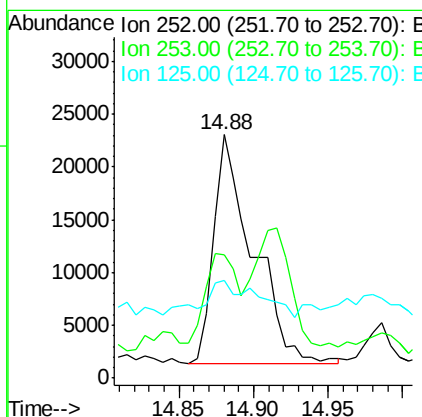
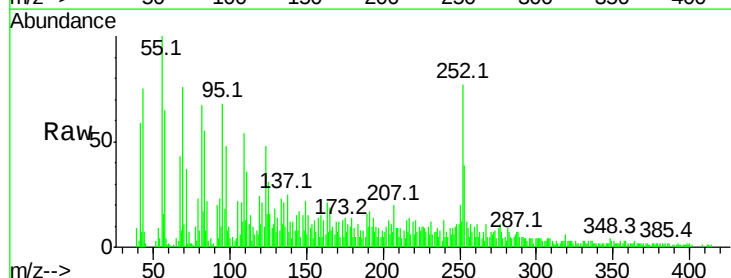
Instrument :  
BNA\_F  
ClientSampleId :

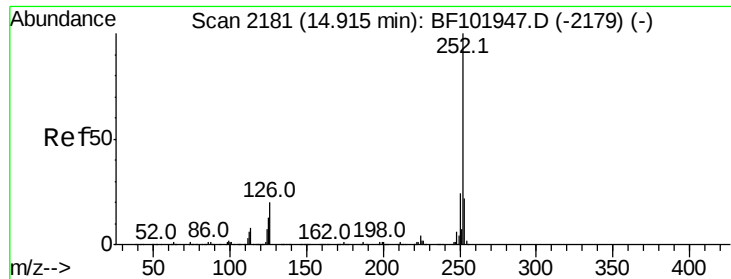
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 22.3  | 17.5  | 26.3  |



#87  
Benzo(b)fluoranthene  
Concen: 2.622 ng  
RT: 14.88 min Scan# 2175  
Delta R.T. -0.01 min  
Lab File: BF102142.D  
Acq: 17 Jan 2018 6:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 50.8  | 17.0  | 25.6# |
| 125     | 40.3  | 9.0   | 13.6# |





#88

Benzo(k)fluoranthene

Concen: 2.718 ng

RT: 14.88 min Scan# 2175

Delta R.T. -0.04 min

Lab File: BF102142.D

Acq: 17 Jan 2018 6:51

Instrument :

BNA\_F

ClientSampleId :

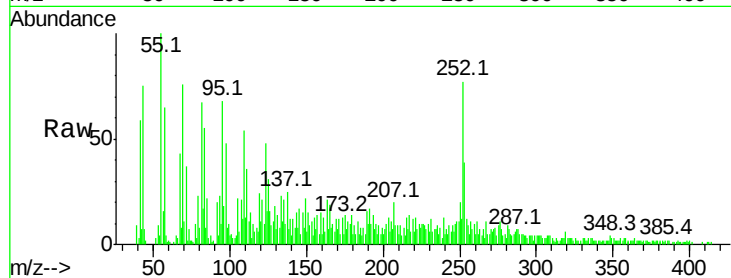
Tot Ion: 252 Resp: 39613

Ion Ratio Lower Upper

252 100

253 50.8 17.9 26.9#

125 40.3 10.2 15.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

