

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021218\  
 Data File : BF102944.D  
 Acq On : 13 Feb 2018 2:46  
 Operator : SJ/JU  
 Sample : J1520-04 50X  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 13 04:49:44 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 05 12:44:16 2018  
 Response via : Initial Calibration

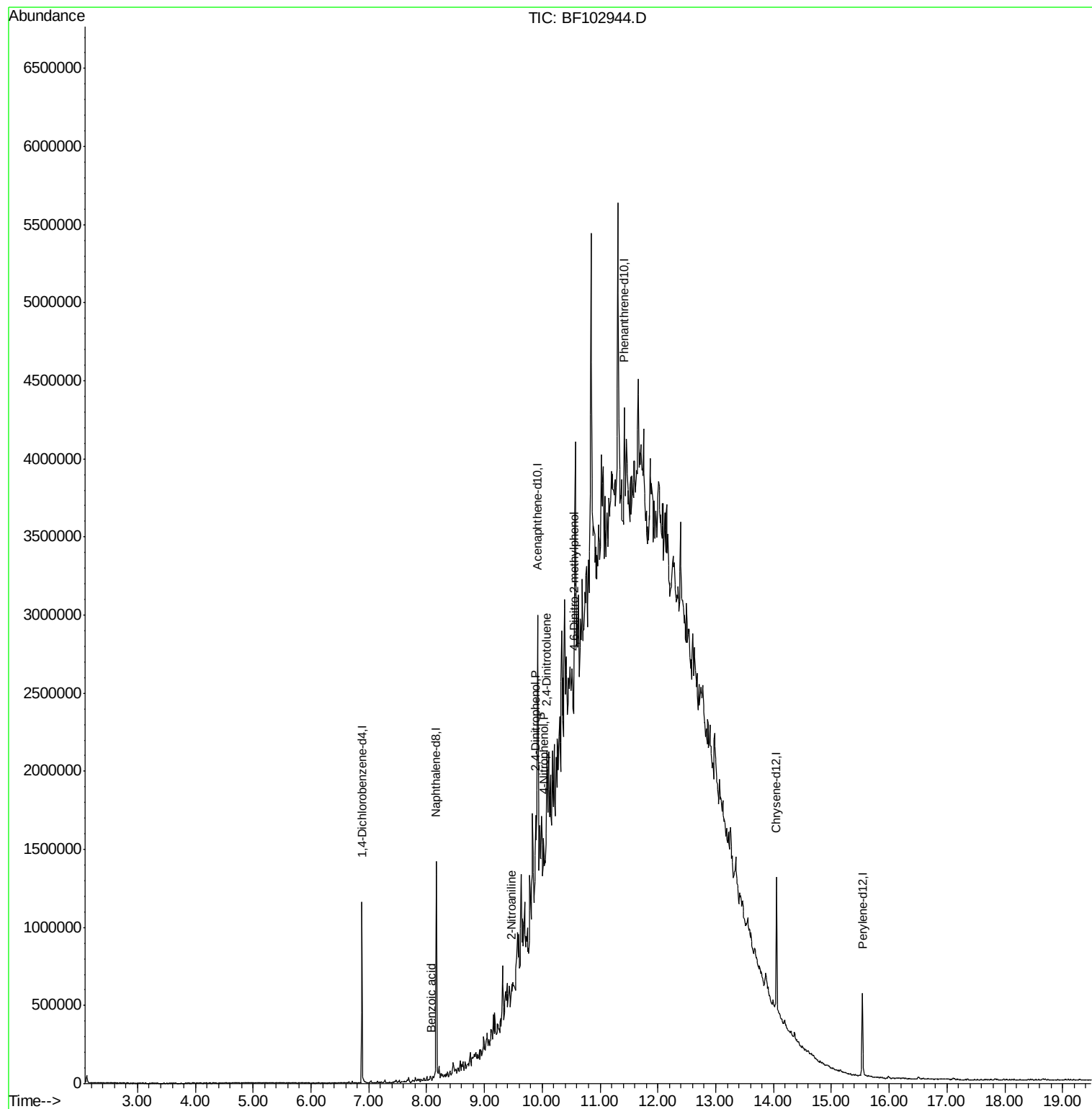
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.88  | 152  | 161746   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.17  | 136  | 656566   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.93  | 164  | 248277   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.42 | 188  | 294257   | 20.00     | ng    | 0.01     |
| 75) Chrysene-d12               | 14.05 | 240  | 302743   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.54 | 264  | 258347   | 20.00     | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 2502     | 0.23      | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 3166     | 0.25      | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 3610     | 0.38      | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.72 | 330  | 282      | 0.14      | ng    | 0.01     |
| 44) 2-Fluorobiphenyl           | 9.24  | 172  | 6483     | 0.43      | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.00 | 244  | 4381     | 0.34      | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 24) Nitrobenzene               | 7.53  | 77   | 179      | Below Cal | #     | 38       |
| 32) Benzoic acid               | 8.08  | 122  | 149      | 8.57      | ng    | 25       |
| 47) 2-Nitroaniline             | 9.46  | 65   | 1172     | 3.69      | ng    | 60       |
| 53) 2,4-Dinitrophenol          | 9.89  | 184  | 125      | 8.11      | ng    | 1        |
| 55) 4-Nitrophenol              | 10.02 | 139  | 733      | 4.21      | ng    | 1        |
| 56) 2,4-Dinitrotoluene         | 10.07 | 165  | 3017     | 3.65      | ng    | 40       |
| 64) 4,6-Dinitro-2-methylphenol | 10.54 | 198  | 940      | 9.50      | ng    | 1        |

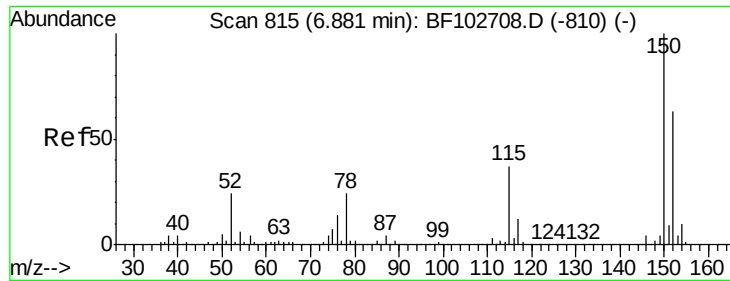
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021218\  
Data File : BF102944.D  
Acq On : 13 Feb 2018 2:46  
Operator : SJ/JU  
Sample : J1520-04 50X  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Feb 13 04:49:44 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 05 12:44:16 2018  
Response via : Initial Calibration



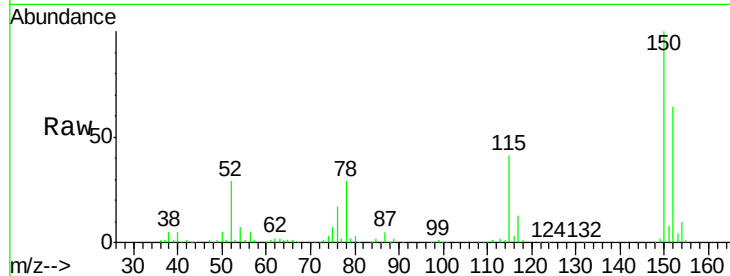


#1

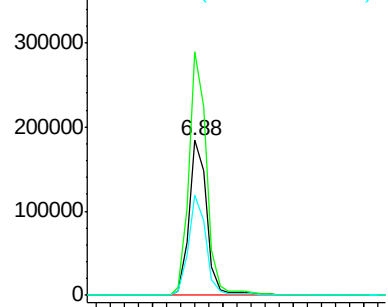
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.00 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

Instrument :  
BNA\_F  
ClientSampleId :

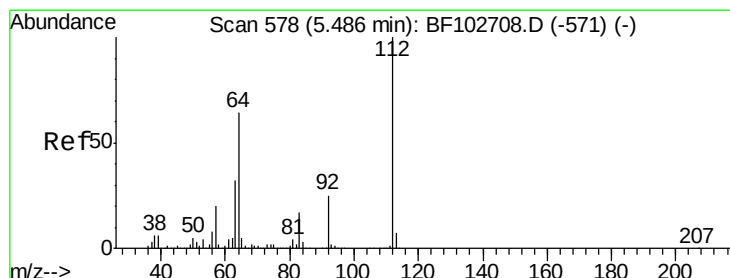
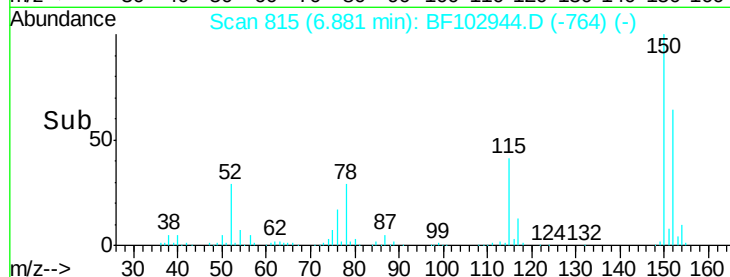
Tot Ion:152 Resp: 161746  
Ion Ratio Lower Upper  
152 100  
150 157.3 124.6 186.8  
115 64.8 50.1 75.1



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



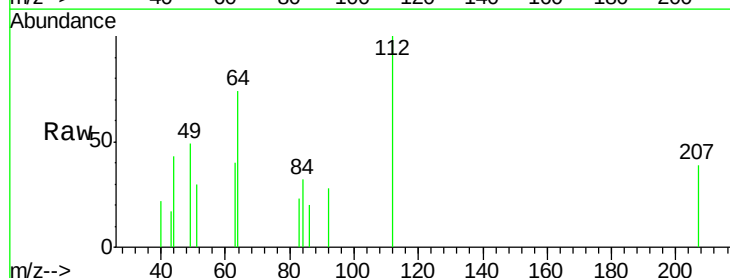
Time-->



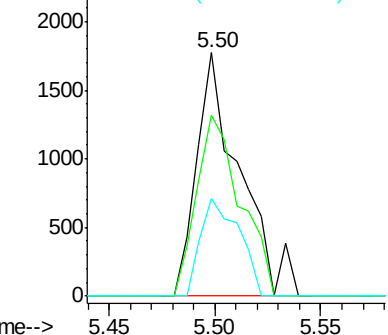
#5

2-Fluorophenol  
Concen: 0.23 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.01 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

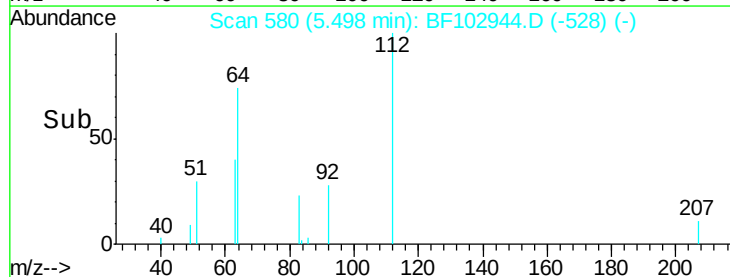
Tgt Ion:112 Resp: 2502  
Ion Ratio Lower Upper  
112 100  
64 74.1 47.9 71.9#  
63 40.0 23.7 35.5#

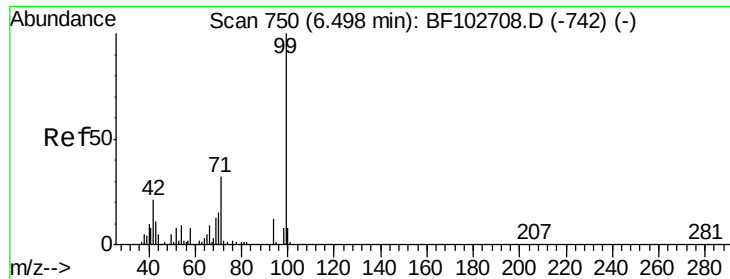


Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1



Time-->





#7

Phenol-d6

Concen: 0.25 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF102944.D

Acq: 13 Feb 2018 2:46

Instrument :

BNA\_F

ClientSampleId :

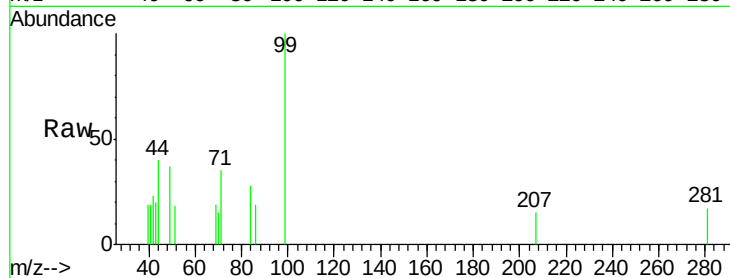
Tot Ion: 99 Resp: 3166

Ion Ratio Lower Upper

99 100

42 23.1 14.5 21.7#

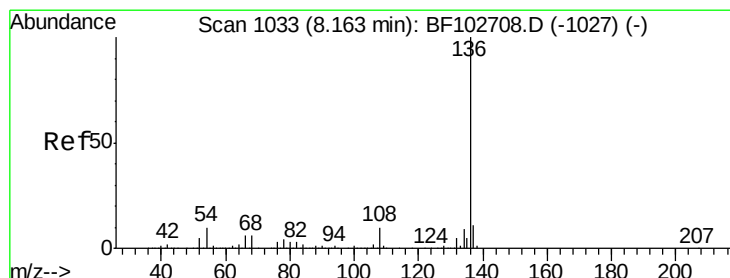
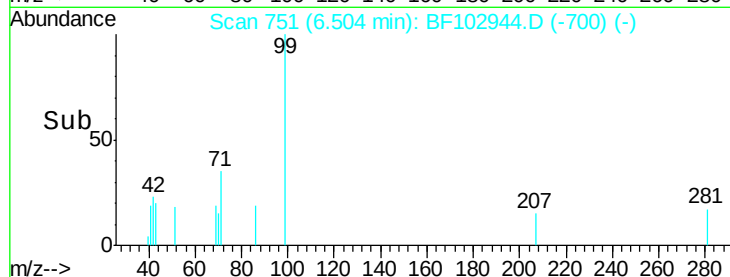
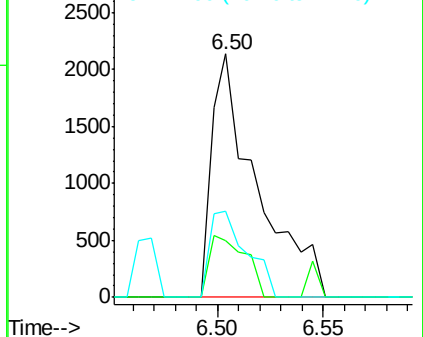
71 35.1 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.17 min Scan# 1034

Delta R.T. -0.00 min

Lab File: BF102944.D

Acq: 13 Feb 2018 2:46

Tgt Ion: 136 Resp: 656566

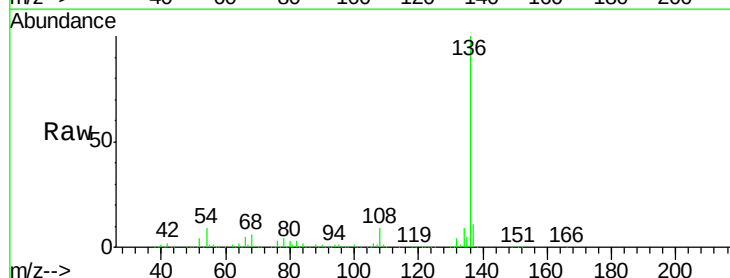
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.9 6.6 9.8

68 6.1 5.0 7.4

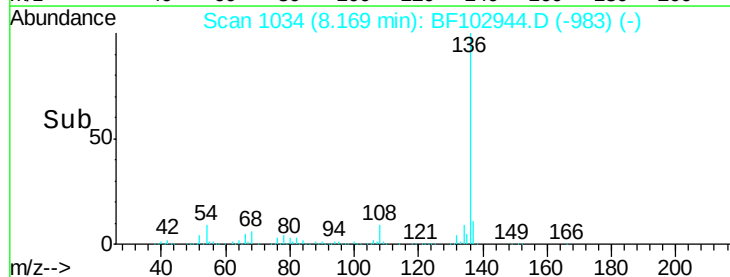
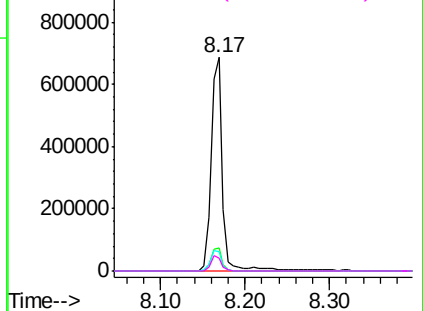


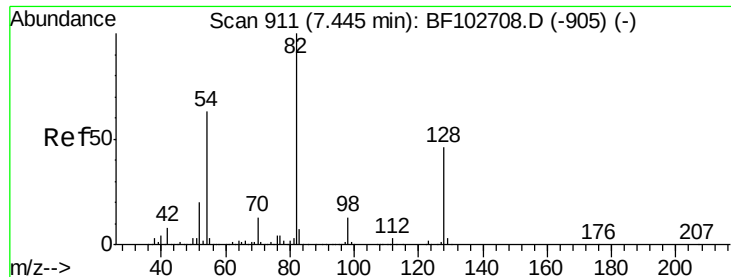
Abundance Ion 136.00 (135.70 to 136.70): E

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

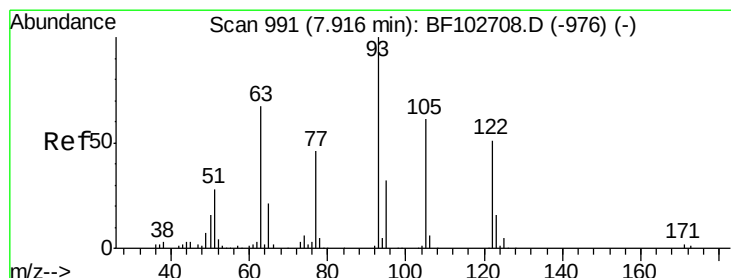
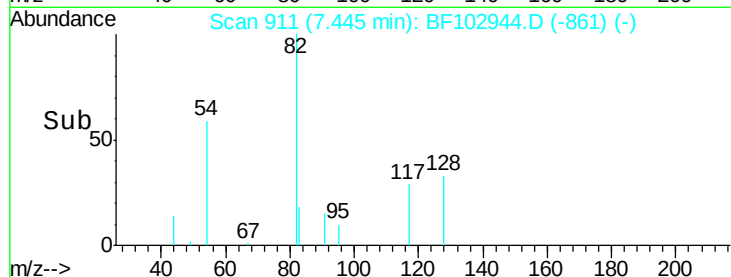
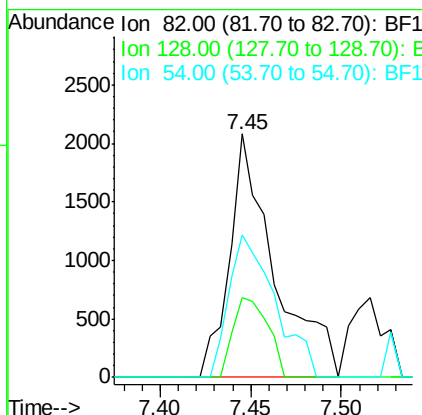
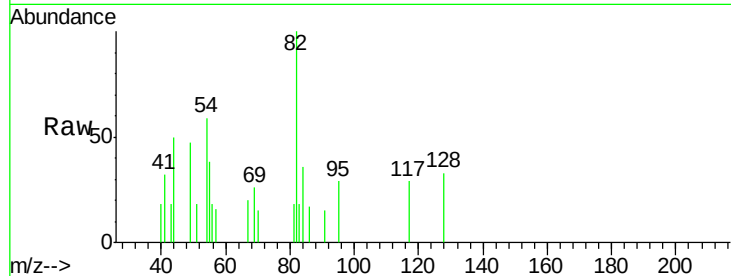




#23  
Nitrobenzene-d5  
Concen: 0.38 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

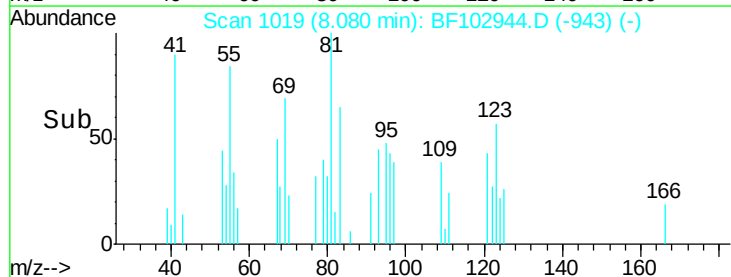
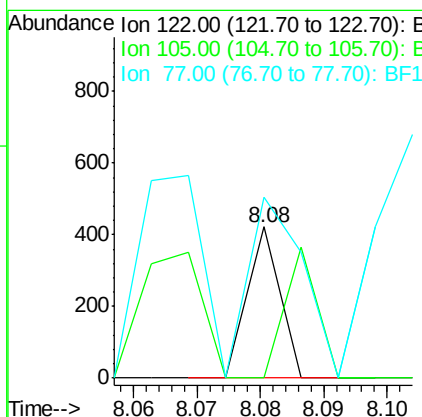
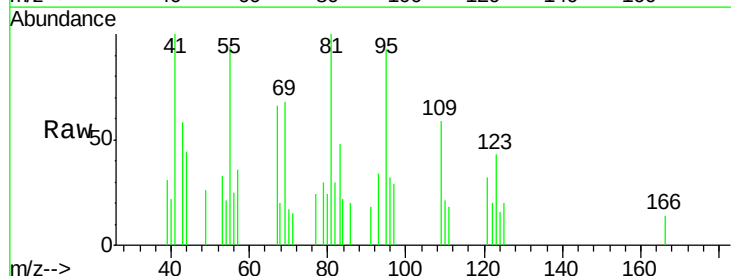
Instrument :  
BNA\_F  
ClientSampleId :

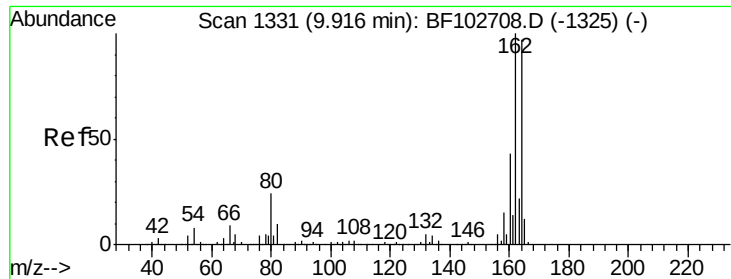
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 33.0  | 36.1  | 54.1# |
| 54      | 58.6  | 41.4  | 62.2  |



#32  
Benzoic acid  
Concen: 8.57 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. 0.15 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 101.1 | 141.1# |
| 77      | 119.9 | 70.7  | 110.7# |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.93 min Scan# 1333

Delta R.T. 0.01 min

Lab File: BF102944.D

Acq: 13 Feb 2018 2:46

Instrument :

BNA\_F

ClientSampleId :

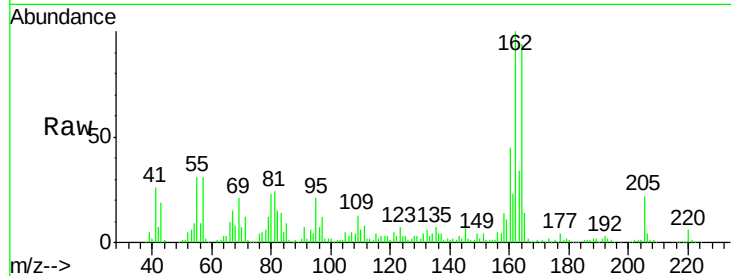
Tot Ion:164 Resp: 248277

Ion Ratio Lower Upper

164 100

162 106.5 86.1 129.1

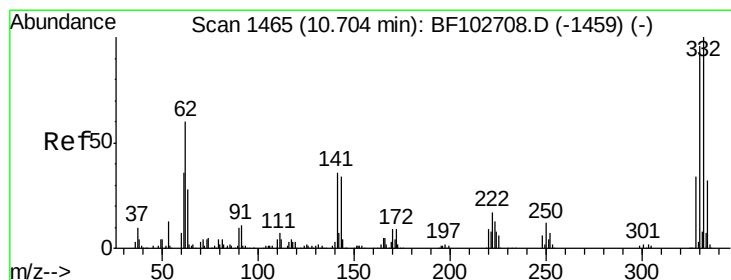
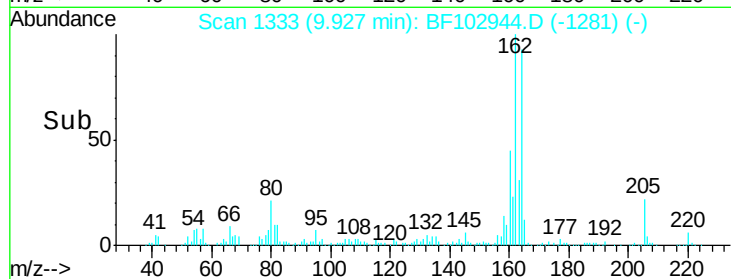
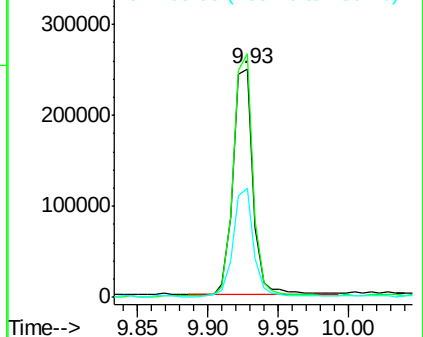
160 48.0 38.3 57.5



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: 0.14 ng

RT: 10.72 min Scan# 1468

Delta R.T. 0.01 min

Lab File: BF102944.D

Acq: 13 Feb 2018 2:46

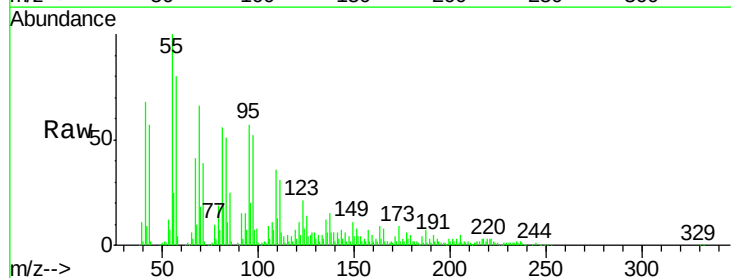
Tgt Ion:330 Resp: 282

Ion Ratio Lower Upper

330 100

332 82.6 77.0 115.6

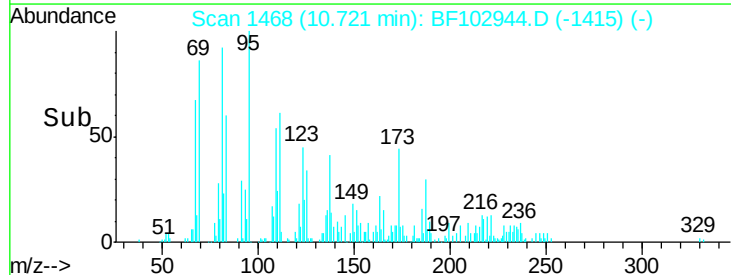
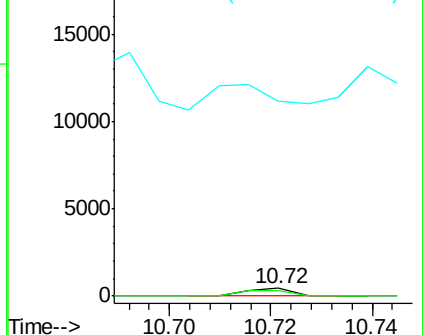
141 487.9 29.9 44.9#

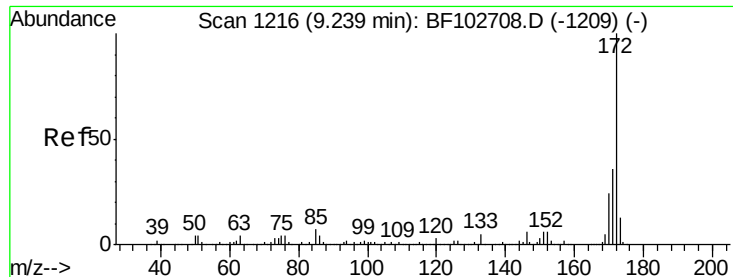


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

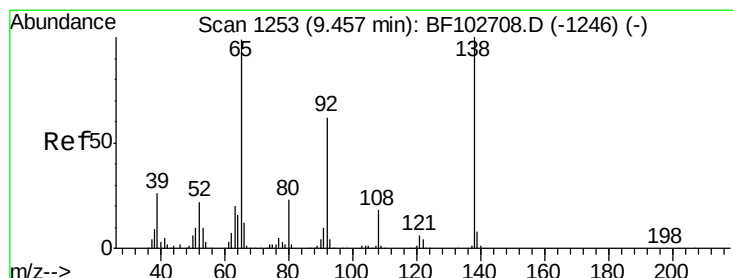
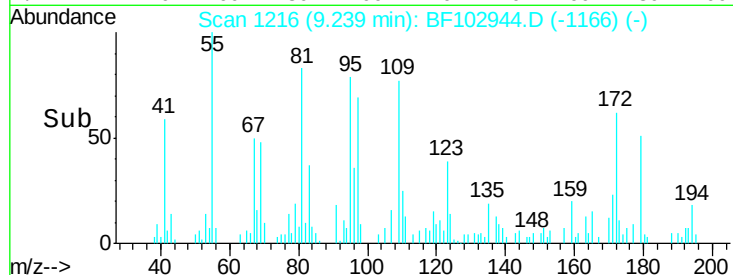
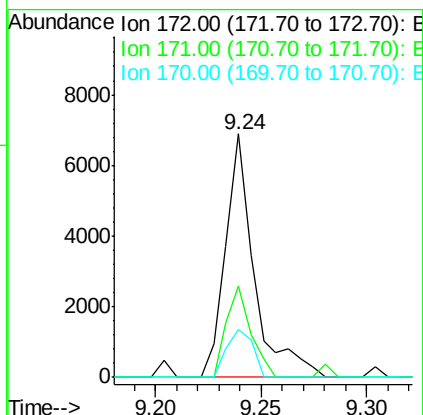
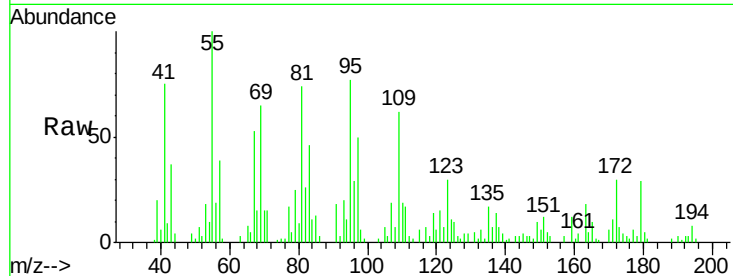




#44  
2-Fluorobiphenyl  
Concen: 0.43 ng  
RT: 9.24 min Scan# 1216  
Delta R.T. -0.01 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

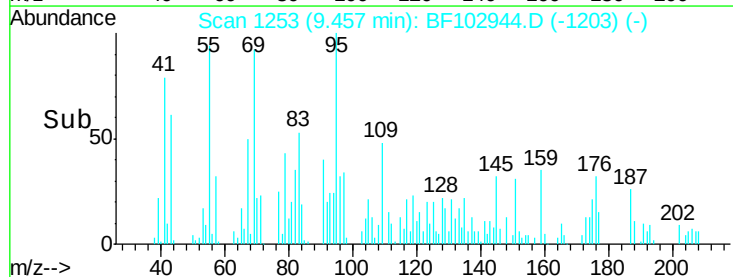
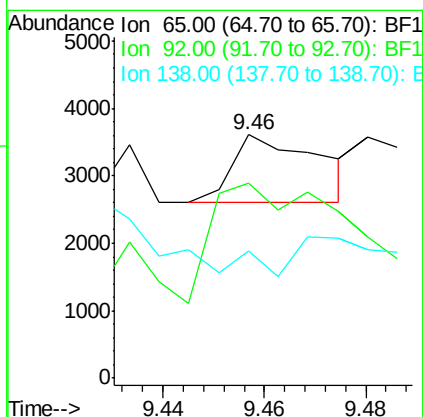
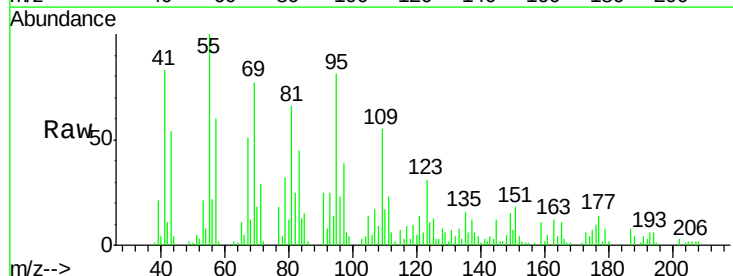
Instrument :  
BNA\_F  
ClientSampled :

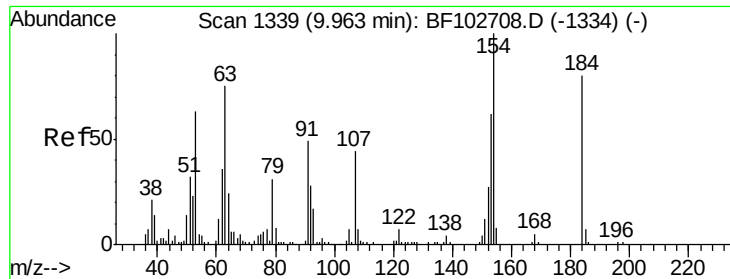
Tot Ion:172 Resp: 6483  
Ion Ratio Lower Upper  
172 100  
171 37.2 29.7 44.5  
170 19.4 19.6 29.4#



#47  
2-Nitroaniline  
Concen: 3.69 ng  
RT: 9.46 min Scan# 1253  
Delta R.T. -0.01 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

Tgt Ion: 65 Resp: 1172  
Ion Ratio Lower Upper  
65 100  
92 79.8 55.8 83.6  
138 52.1 91.2 136.8#

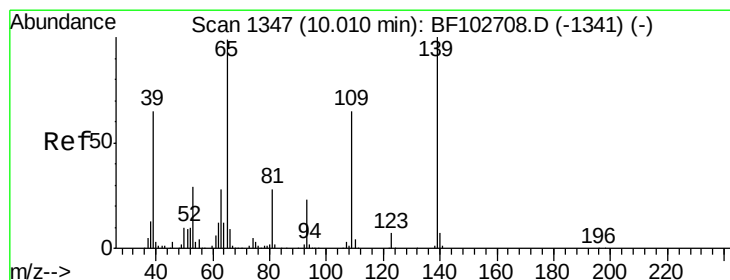
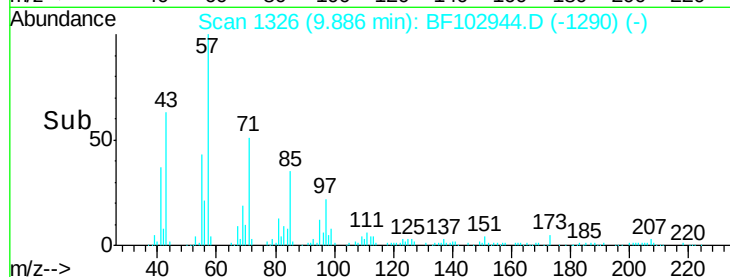
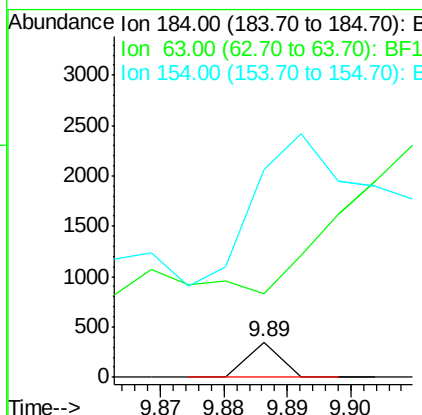
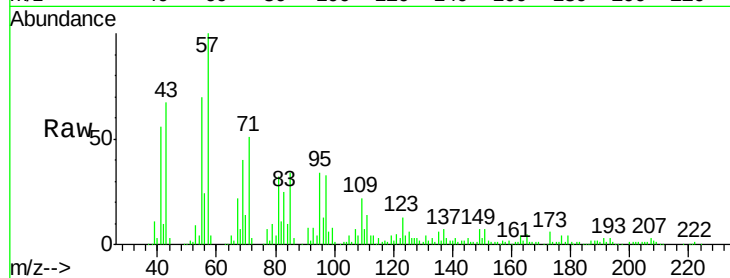




#53  
 2,4-Dinitrophenol  
 Concen: 8.11 na  
 RT: 9.89 min Scan# 1326  
 Delta R.T. -0.09 min  
 Lab File: BF102944.D  
 Acq: 13 Feb 2018 2:46

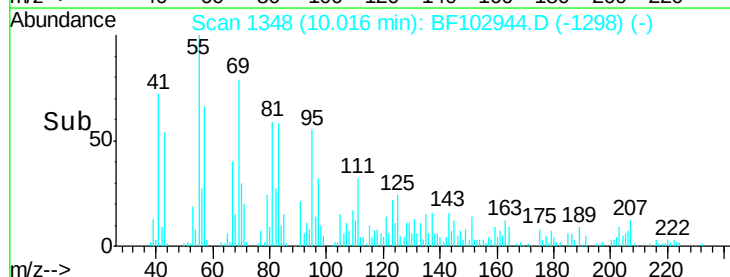
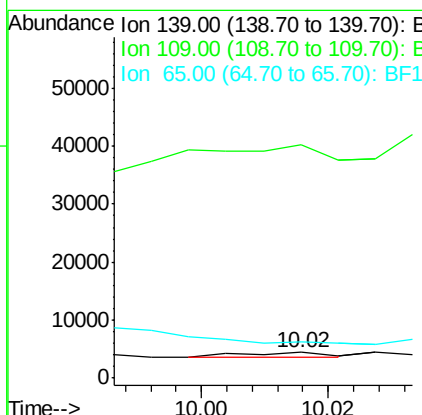
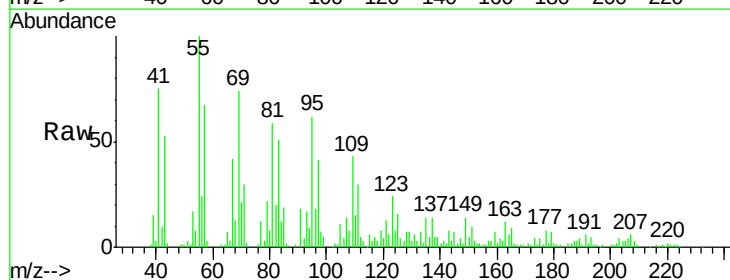
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:184 Resp: 125  
 Ion Ratio Lower Upper  
 184 100  
 63 234.8 54.2 81.2#  
 154 584.7 184.0 276.0#

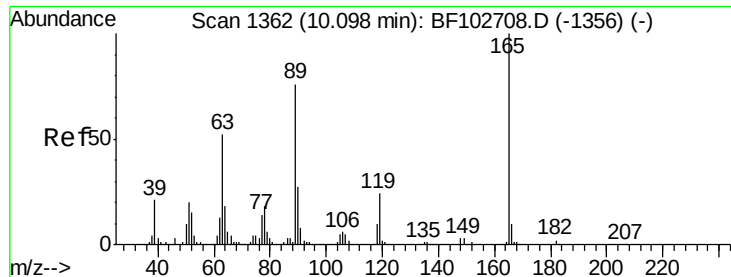


#55  
 4-Nitrophenol  
 Concen: 4.21 ng  
 RT: 10.02 min Scan# 1348  
 Delta R.T. -0.01 min  
 Lab File: BF102944.D  
 Acq: 13 Feb 2018 2:46

Tgt Ion:139 Resp: 733  
 Ion Ratio Lower Upper  
 139 100  
 109 905.1 48.4 88.4#  
 65 141.2 72.6 112.6#



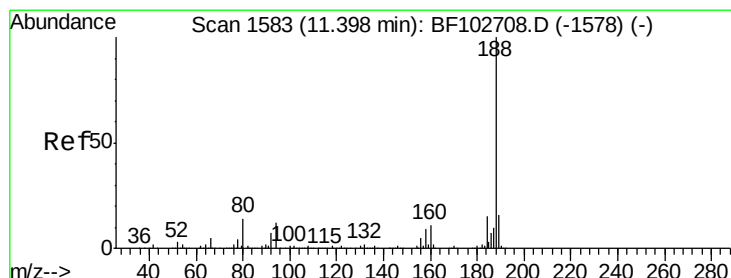
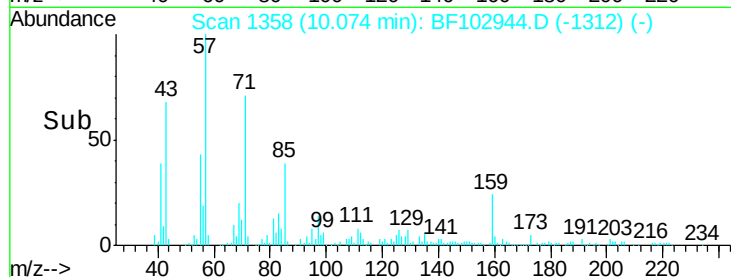
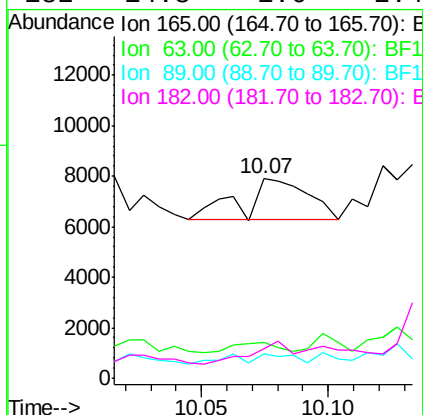
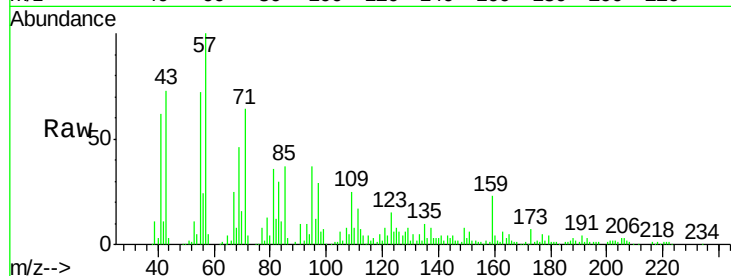




#56  
2,4-Dinitrotoluene  
Concen: 3.65 ng  
RT: 10.07 min Scan# 1358  
Delta R.T. -0.03 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

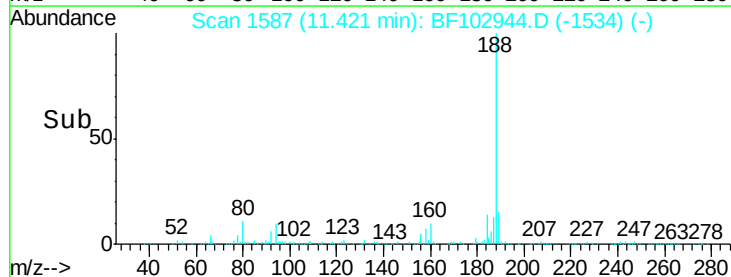
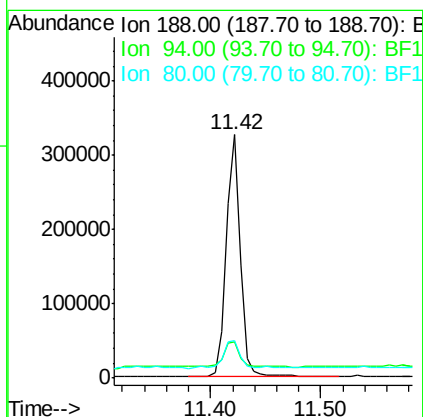
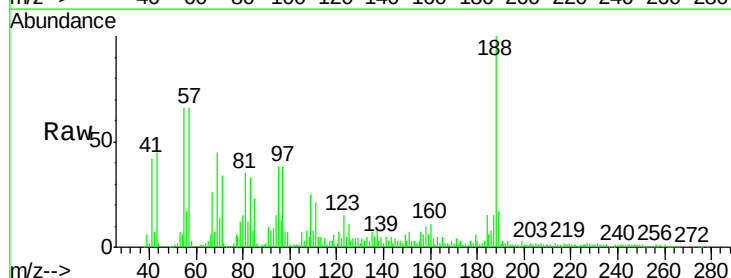
Instrument :  
BNA\_F  
ClientSampleId :

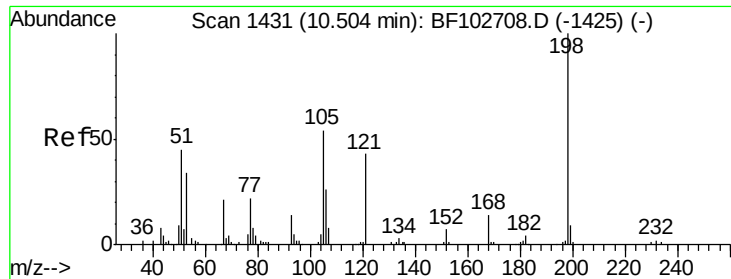
Tot Ion:165 Resp: 3017  
Ion Ratio Lower Upper  
165 100  
63 17.8 36.4 54.6#  
89 12.2 57.8 86.6#  
182 14.8 1.6 2.4#



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.42 min Scan# 1587  
Delta R.T. 0.01 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

Tgt Ion:188 Resp: 294257  
Ion Ratio Lower Upper  
188 100  
94 14.7 8.5 12.7#  
80 15.3 9.2 13.8#

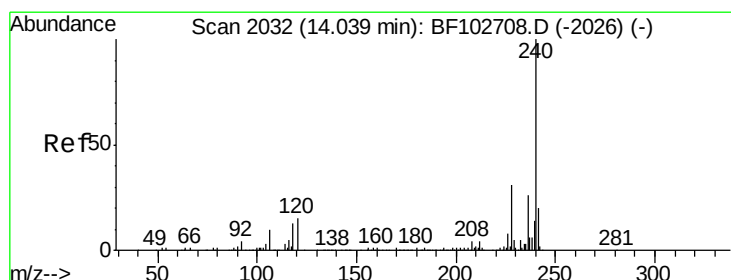
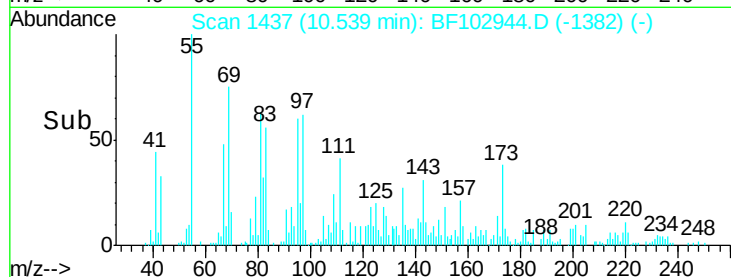
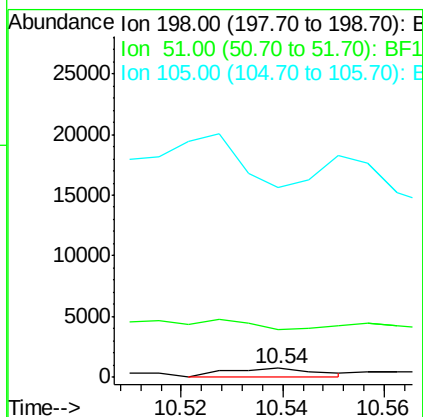
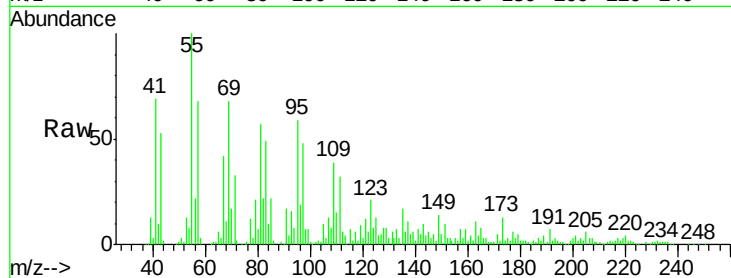




#64  
4,6-Dinitro-2-methylphenol  
Concen: 9.50 ng  
RT: 10.54 min Scan# 1437  
Delta R.T. 0.02 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

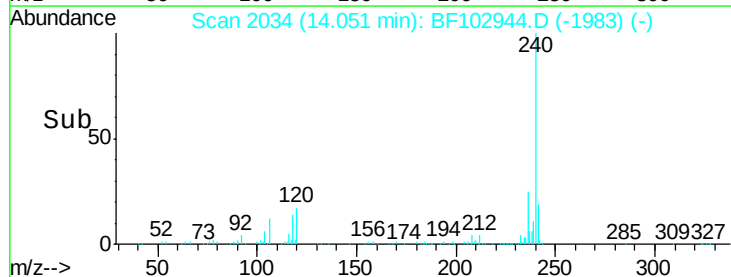
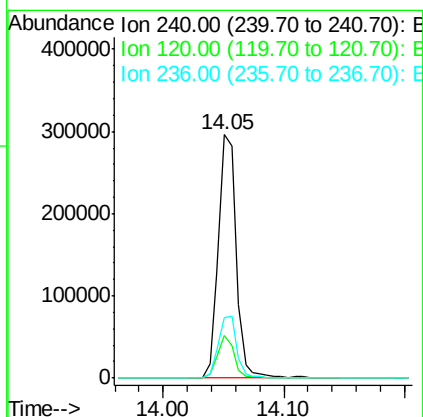
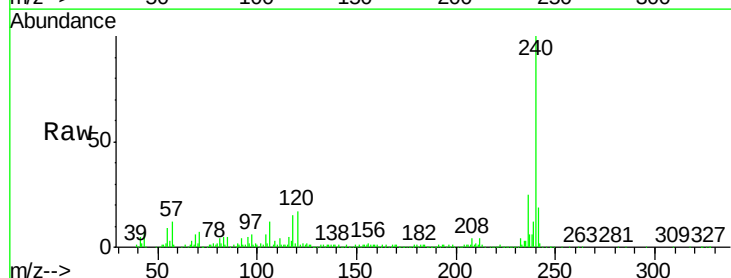
Instrument :  
BNA\_F  
ClientSampleId :

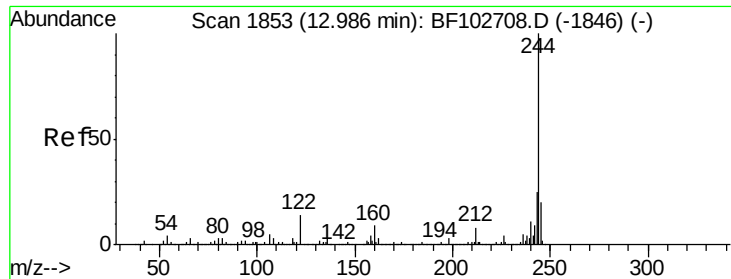
Tot Ion:198 Resp: 940  
Ion Ratio Lower Upper  
198 100  
51 515.4 37.7 77.7#  
105 2057.9 36.3 76.3#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. -0.00 min  
Lab File: BF102944.D  
Acq: 13 Feb 2018 2:46

Tgt Ion:240 Resp: 302743  
Ion Ratio Lower Upper  
240 100  
120 17.5 9.5 14.3#  
236 24.9 20.7 31.1





#78

Terphenyl-d14

Concen: 0.34 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.00 min

Lab File: BF102944.D

Acq: 13 Feb 2018 2:46

Instrument :

BNA\_F

ClientSampleId :

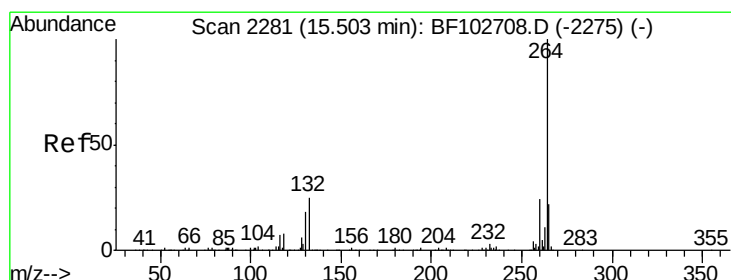
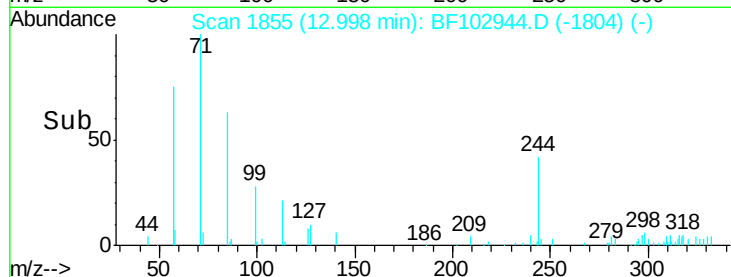
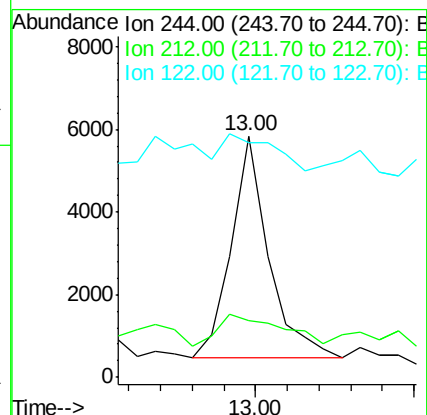
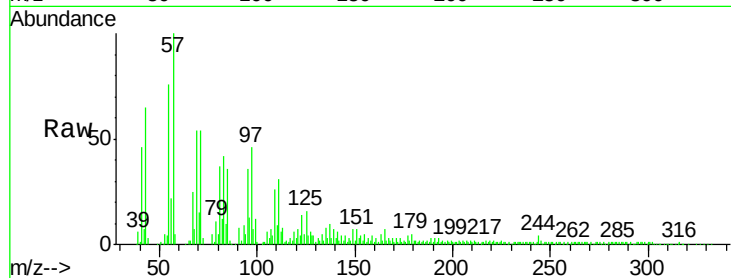
Tot Ion:244 Resp: 4381

Ion Ratio Lower Upper

244 100

212 23.6 5.4 8.0#

122 97.2 11.0 16.4#



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.54 min Scan# 2287

Delta R.T. 0.01 min

Lab File: BF102944.D

Acq: 13 Feb 2018 2:46

Tgt Ion:264 Resp: 258347

Ion Ratio Lower Upper

264 100

260 23.3 19.2 28.8

265 21.1 17.5 26.3

