

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040418\  
 Data File : BF104256.D  
 Acq On : 5 Apr 2018 5:52  
 Operator : JU/SJ  
 Sample : J2202-01  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 05 06:46:48 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 04 18:06:58 2018  
 Response via : Initial Calibration

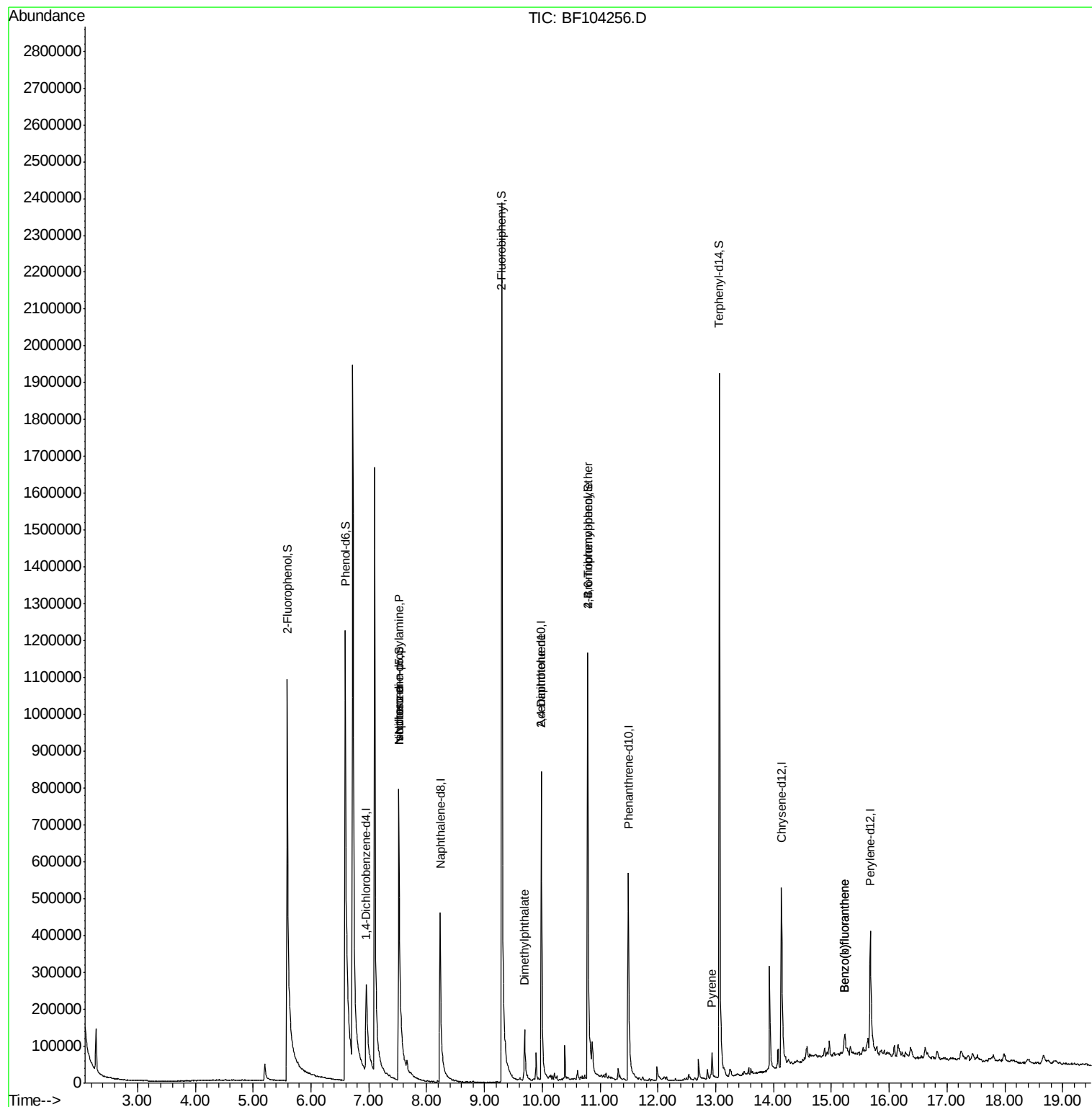
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.96  | 152  | 116587   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.23  | 136  | 500749   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.99  | 164  | 221333   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.49 | 188  | 357223   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.14 | 240  | 239267   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.67 | 264  | 219412   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.59  | 112  | 844083   | 115.46    | ng    | 0.00     |
| 7) Phenol-d6                   | 6.59  | 99   | 1157977  | 128.74    | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.52  | 82   | 673335   | 82.23     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.79 | 330  | 249978   | 101.43    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.30  | 172  | 1232801  | 87.83     | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.07 | 244  | 895850   | 86.45     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.59  | 77   | 998      | Below Cal |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 76695    | 14.368 ng | #     | 1        |
| 25) Isophorone                 | 7.52  | 82   | 680353   | 45.087 ng | #     | 72       |
| 49) Dimethylphthalate          | 9.70  | 163  | 96362    | 5.514 ng  | #     | 64       |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 28151    | 5.868 ng  | #     | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 14648    | 3.833 ng  | #     | 23       |
| 77) Pyrene                     | 12.93 | 202  | 36432    | 2.118 ng  | #     | 1        |
| 87) Benzo(b)fluoranthene       | 15.22 | 252  | 32869    | 2.462 ng  | #     | 96       |
| 88) Benzo(k)fluoranthene       | 15.22 | 252  | 32869    | 2.613 ng  | #     | 88       |
|                                |       |      |          |           | #     | 91       |

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

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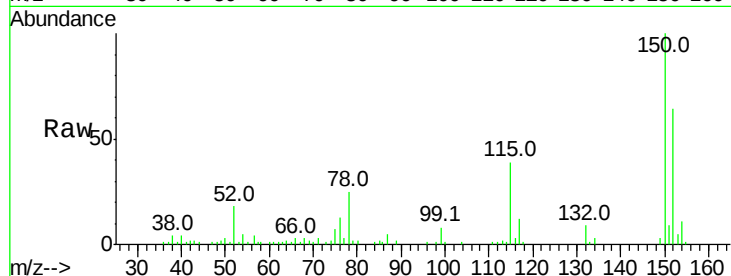


#1

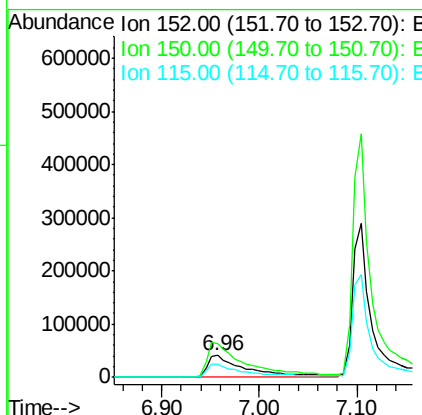
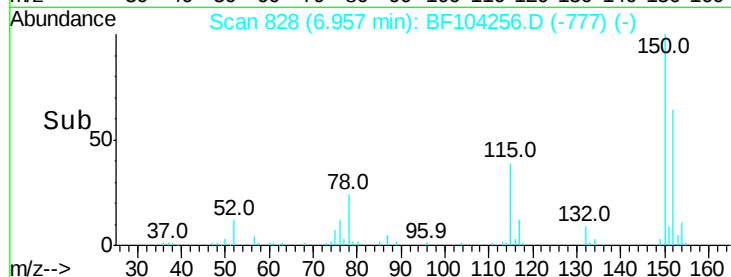
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BF104256.D  
Acq: 5 Apr 2018 5:52

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.1 | 124.6 | 186.8 |
| 115     | 60.7  | 50.1  | 75.1  |



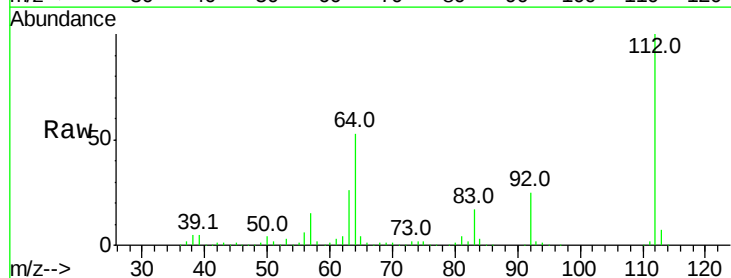
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



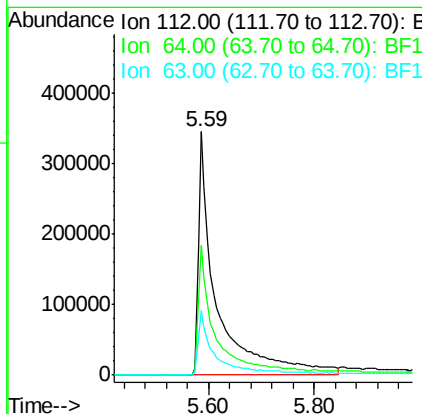
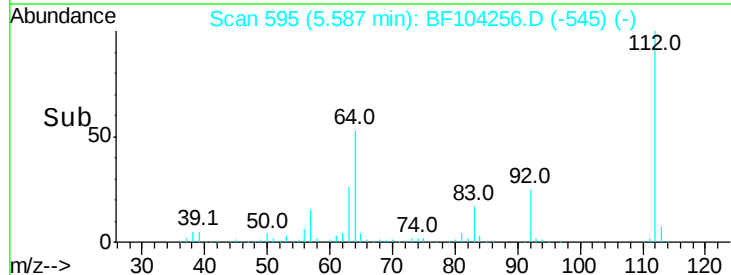
#5

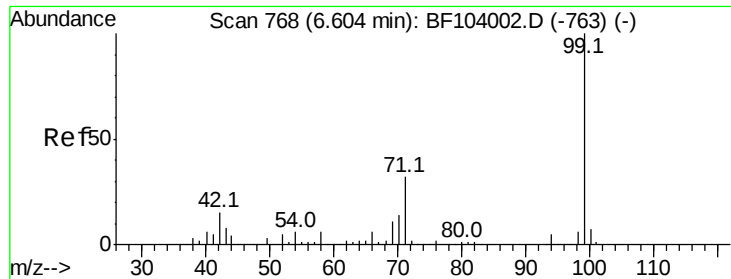
2-Fluorophenol  
Concen: 115.459 ng  
RT: 5.59 min Scan# 595  
Delta R.T. -0.01 min  
Lab File: BF104256.D  
Acq: 5 Apr 2018 5:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.2  | 47.9  | 71.9  |
| 63      | 26.2  | 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: 128.745 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

Instrument :

BNA\_F

ClientSampleId :

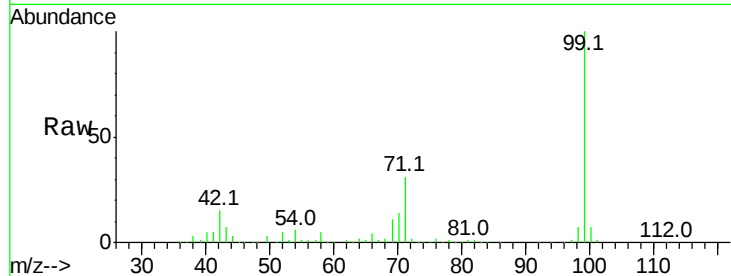
Tot Ion: 99 Resp: 1157977

Ion Ratio Lower Upper

99 100

42 14.8 14.5 21.7

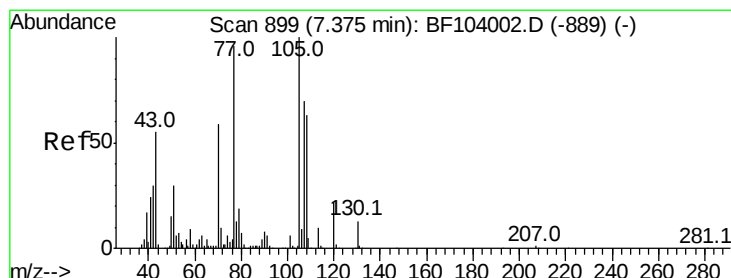
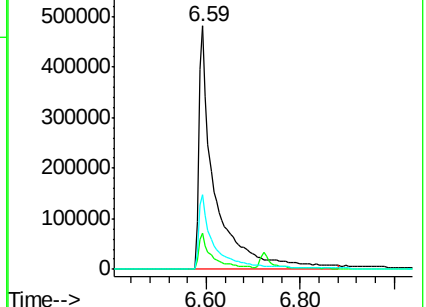
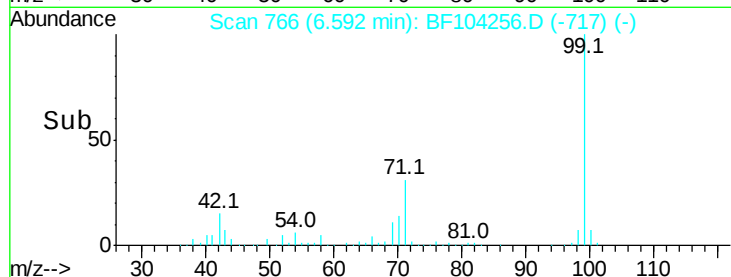
71 30.9 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.368 ng

RT: 7.52 min Scan# 923

Delta R.T. 0.16 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

Tgt Ion: 70 Resp: 76695

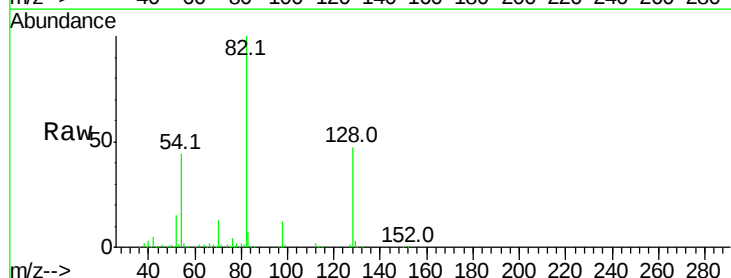
Ion Ratio Lower Upper

70 100

42 41.3 47.5 71.3#

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

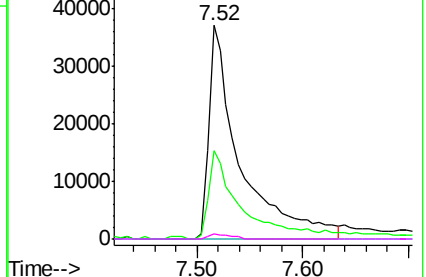
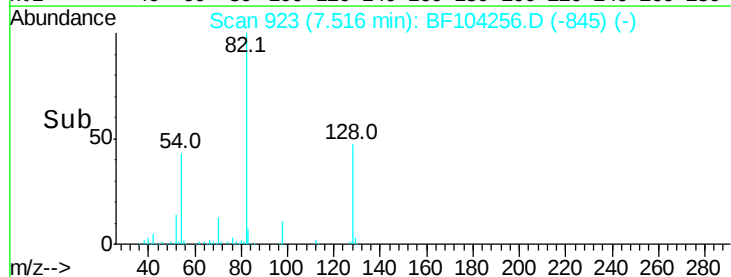


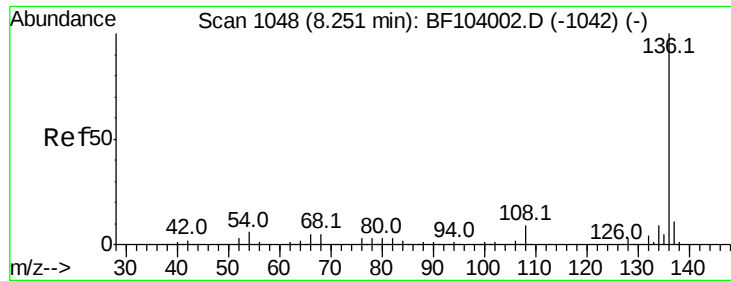
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

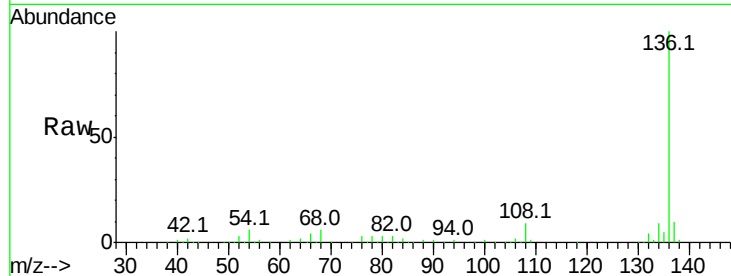




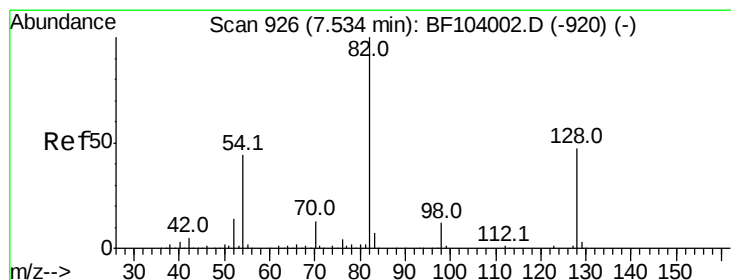
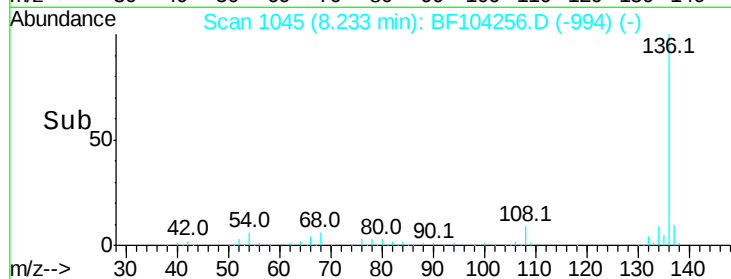
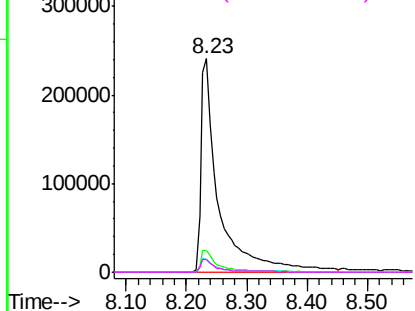
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.23 min Scan# 1045  
Delta R.T. -0.00 min  
Lab File: BF104256.D  
Acq: 5 Apr 2018 5:52

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 500749 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 8.9   | 13.3   |
| 54       | 6.3   | 6.6   | 9.8#   |
| 68       | 5.7   | 5.0   | 7.4    |

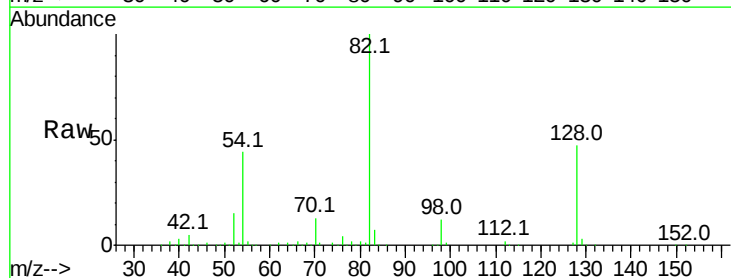


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

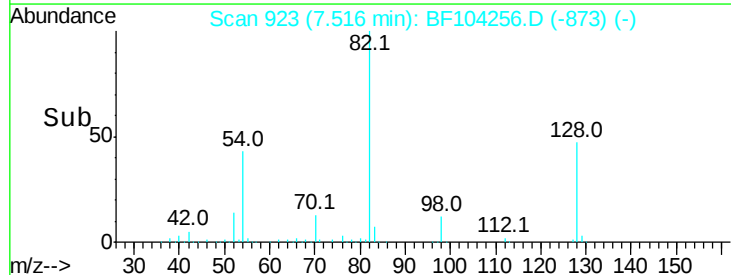
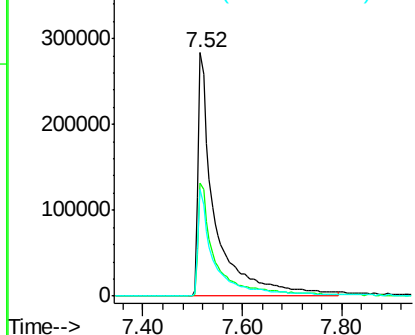


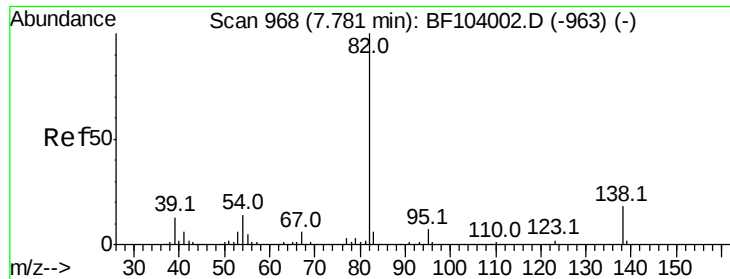
#23  
Nitrobenzene-d5  
Concen: 82.233 ng  
RT: 7.52 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BF104256.D  
Acq: 5 Apr 2018 5:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 673335 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.6  | 36.1  | 54.1   |
| 54       | 43.6  | 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: 45.087 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.25 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

Instrument :

BNA\_F

ClientSampleId :

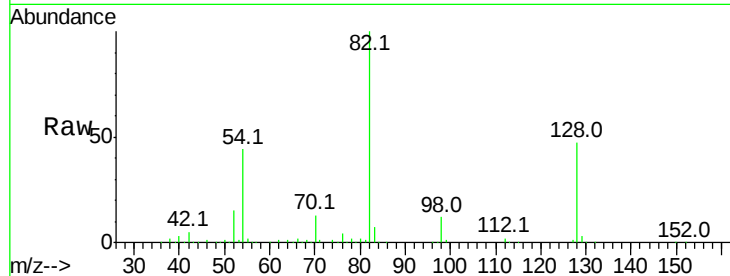
Tot Ion: 82 Resp: 680353

Ion Ratio Lower Upper

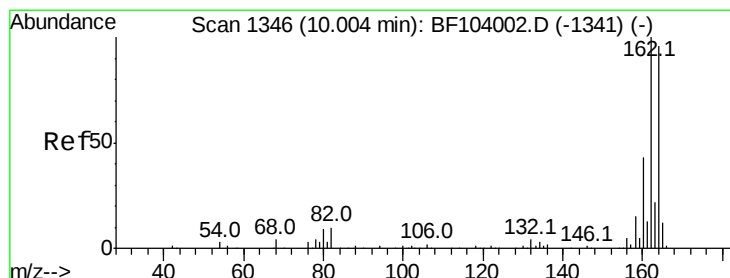
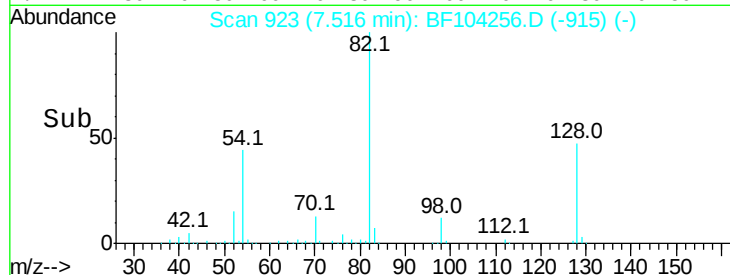
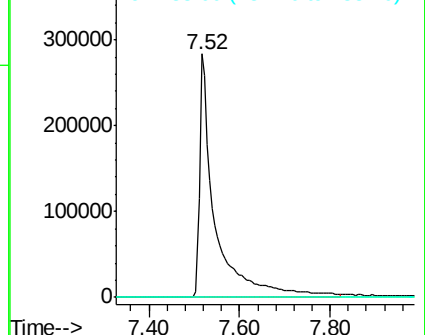
82 100

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: 9.99 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

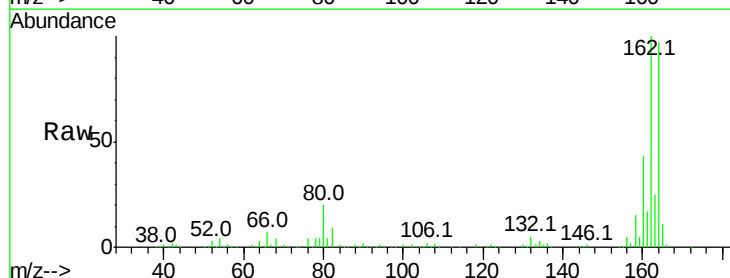
Tgt Ion:164 Resp: 221333

Ion Ratio Lower Upper

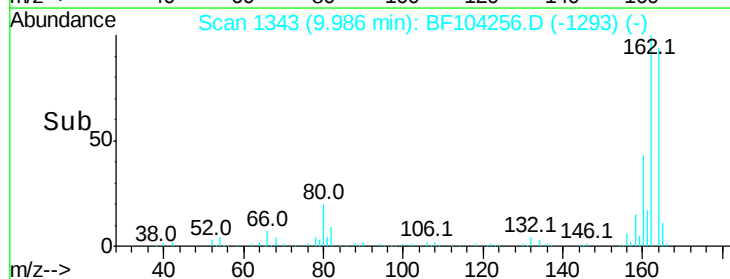
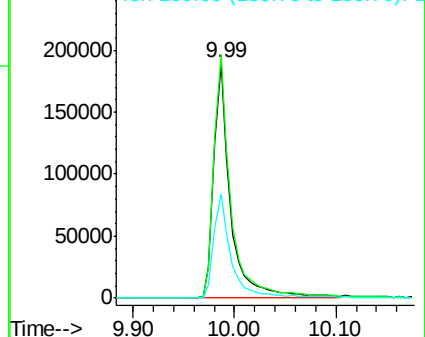
164 100

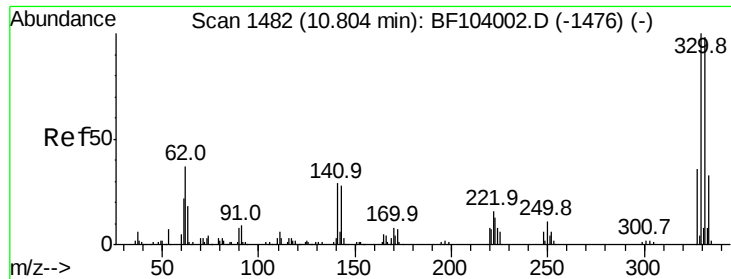
162 103.6 86.1 129.1

160 44.4 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

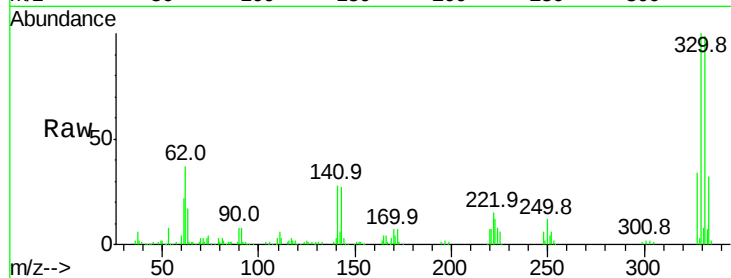




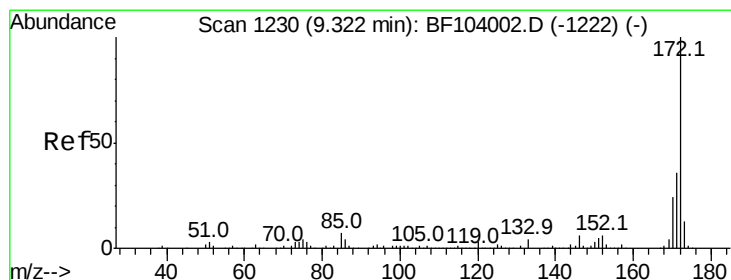
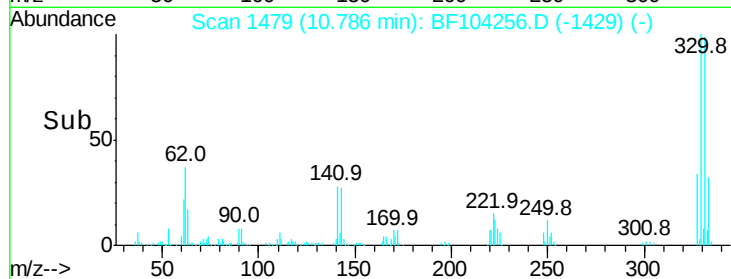
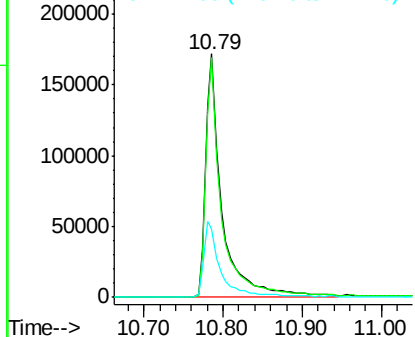
#41  
 2,4,6-Tribromophenol  
 Concen: 101.430 ng  
 RT: 10.79 min Scan# 1479  
 Delta R.T. -0.01 min  
 Lab File: BF104256.D  
 Acq: 5 Apr 2018 5:52

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 249978  
 Ion Ratio Lower Upper  
 330 100  
 332 99.1 77.0 115.6  
 141 32.6 29.9 44.9

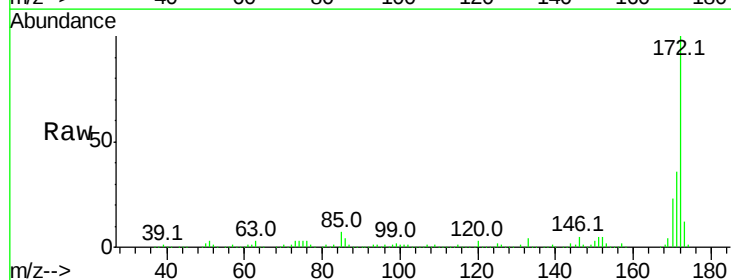


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

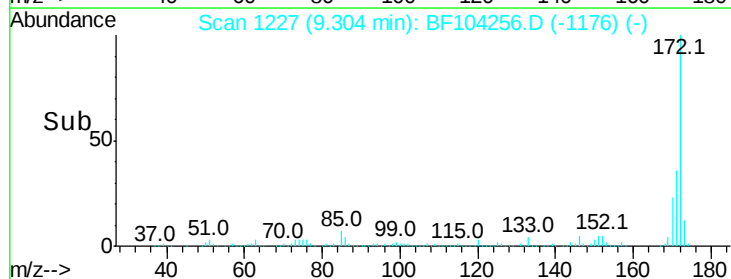
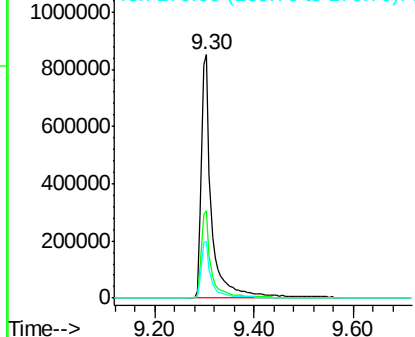


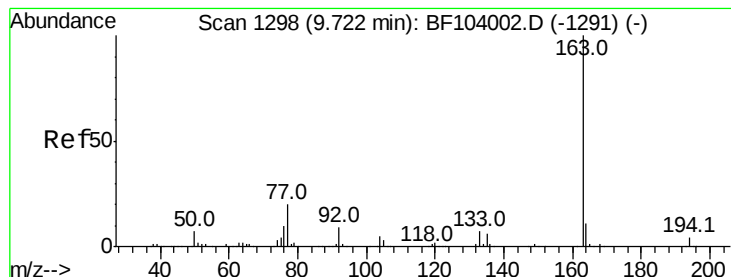
#44  
 2-Fluorobiphenyl  
 Concen: 87.833 ng  
 RT: 9.30 min Scan# 1227  
 Delta R.T. -0.00 min  
 Lab File: BF104256.D  
 Acq: 5 Apr 2018 5:52

Tgt Ion:172 Resp: 1232801  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.7 44.5  
 170 23.4 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: 5.514 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.01 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

Instrument :

BNA\_F

ClientSampleId :

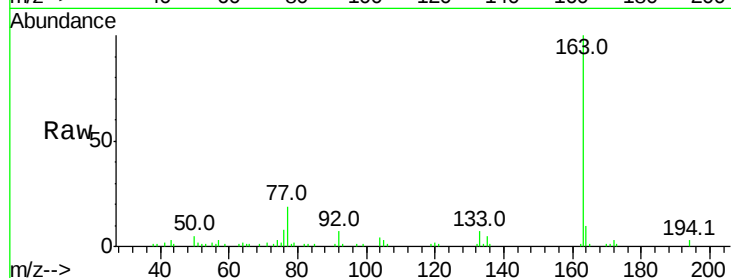
Tot Ion:163 Resp: 96362

Ion Ratio Lower Upper

163 100

194 3.3 2.7 4.1

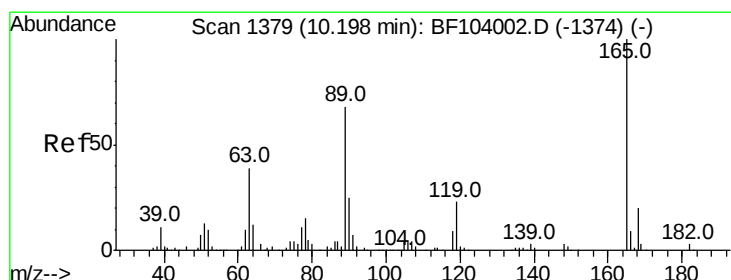
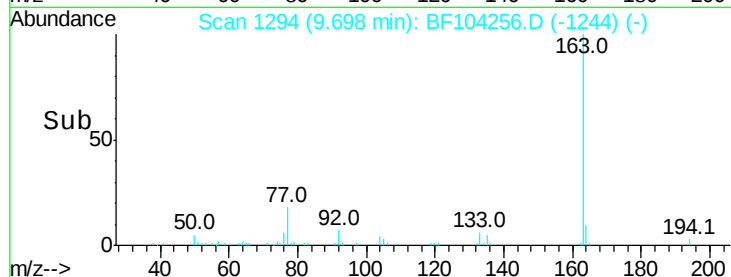
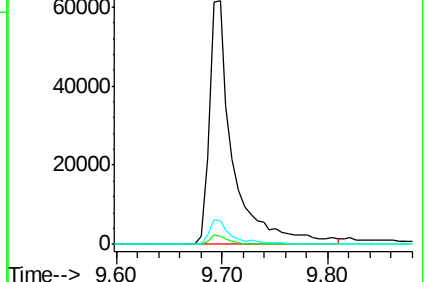
164 9.6 8.2 12.2



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



#56

2,4-Dinitrotoluene

Concen: 5.868 ng

RT: 9.99 min Scan# 1343

Delta R.T. -0.21 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

Tgt Ion:165 Resp: 28151

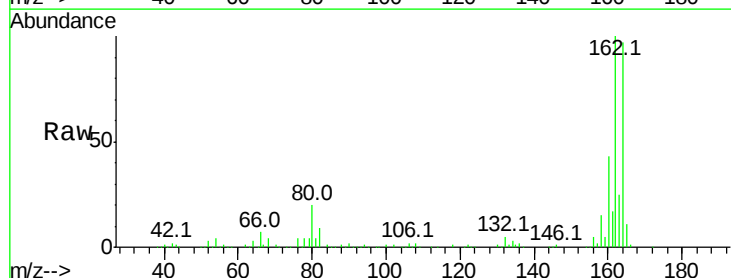
Ion Ratio Lower Upper

165 100

63 1.5 36.4 54.6#

89 1.4 57.8 86.6#

182 0.0 1.6 2.4#

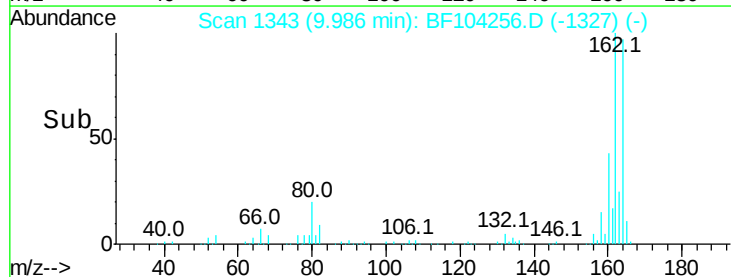
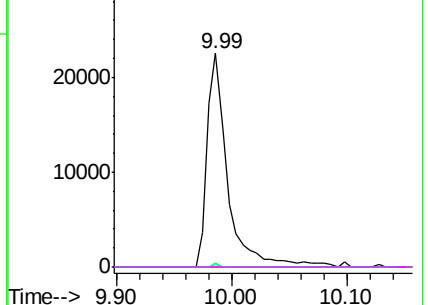


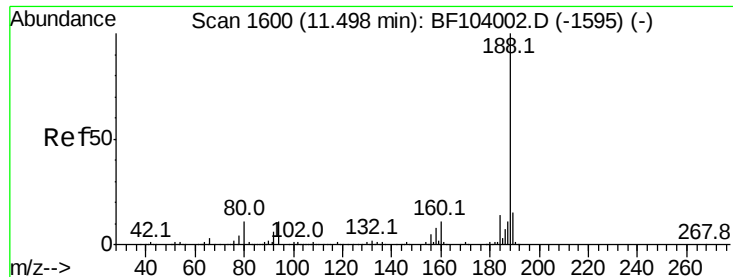
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

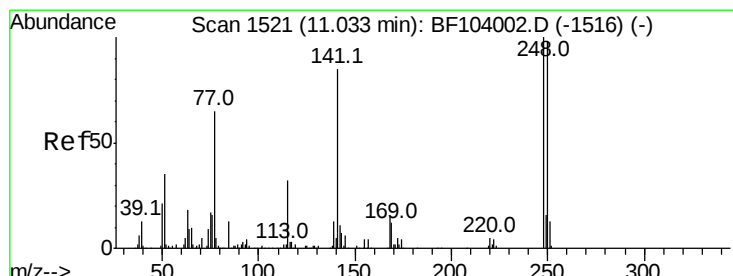
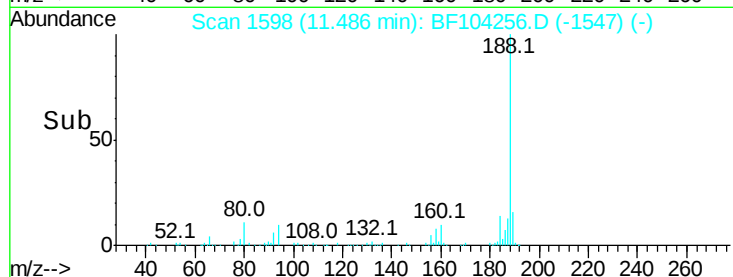
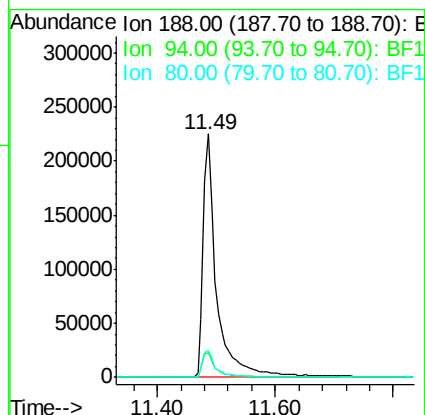
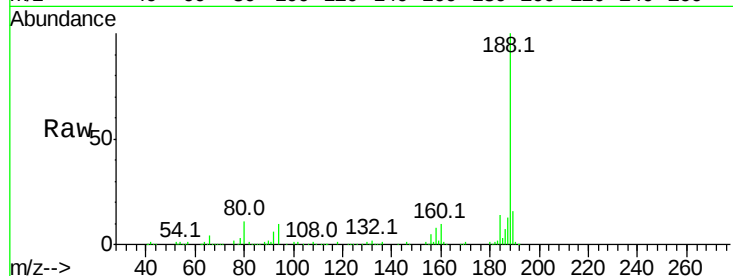




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1598  
Delta R.T. -0.00 min  
Lab File: BF104256.D  
Acq: 5 Apr 2018 5:52

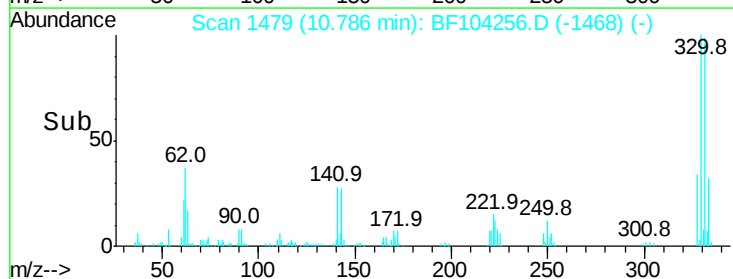
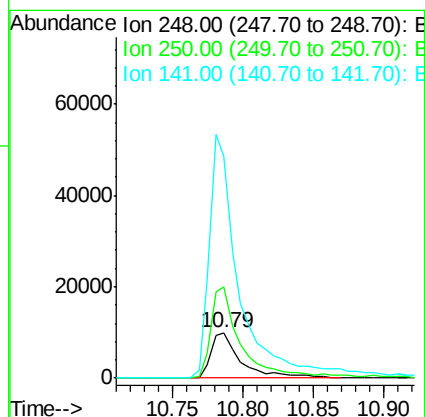
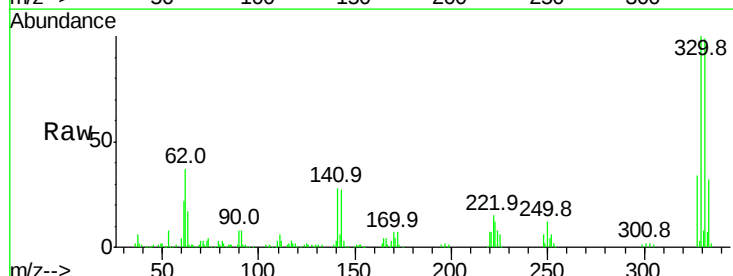
Instrument :  
BNA\_F  
ClientSampleId :

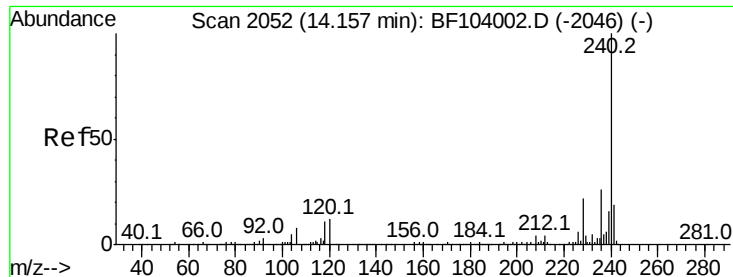
Tot Ion:188 Resp: 357223  
Ion Ratio Lower Upper  
188 100  
94 10.0 8.5 12.7  
80 11.1 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 3.833 ng  
RT: 10.79 min Scan# 1479  
Delta R.T. -0.24 min  
Lab File: BF104256.D  
Acq: 5 Apr 2018 5:52

Tgt Ion:248 Resp: 14648  
Ion Ratio Lower Upper  
248 100  
250 201.8 76.9 115.3#  
141 488.2 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2049

Delta R.T. -0.01 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

Instrument :

BNA\_F

ClientSampleId :

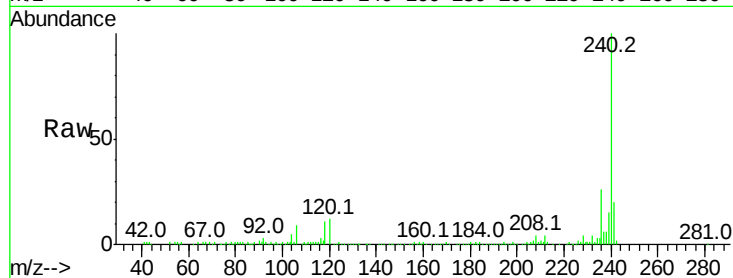
Tot Ion:240 Resp: 239267

Ion Ratio Lower Upper

240 100

120 12.5 9.5 14.3

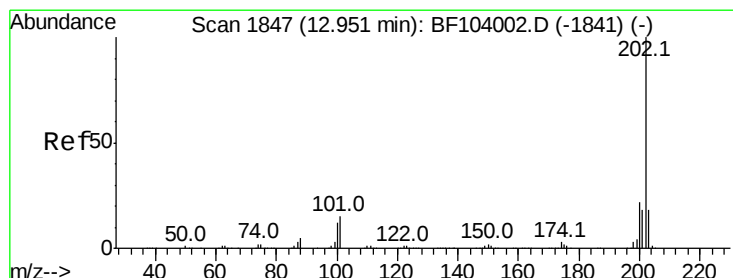
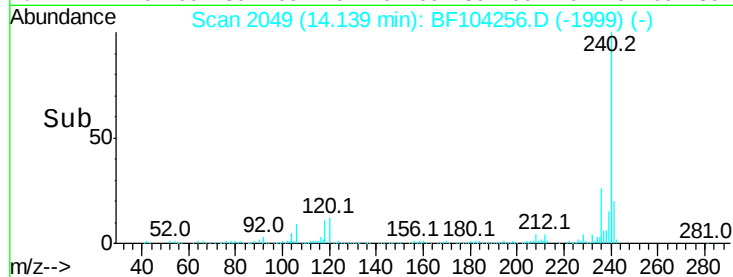
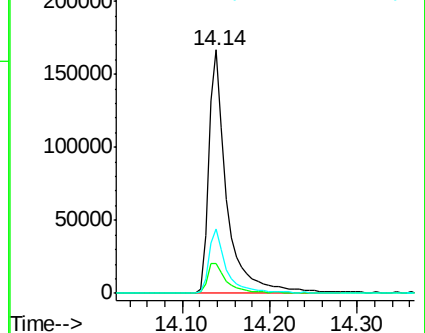
236 26.4 20.7 31.1



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: 2.118 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

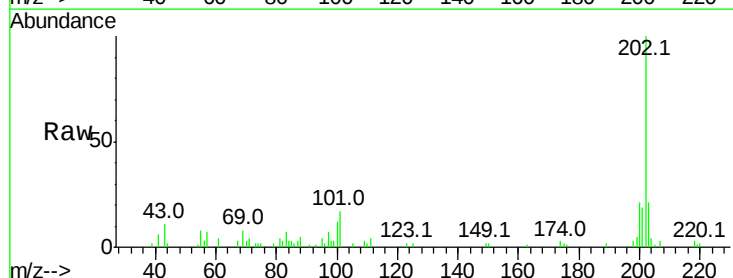
Tgt Ion:202 Resp: 36432

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

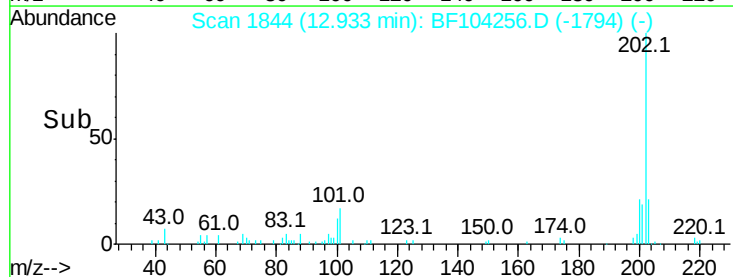
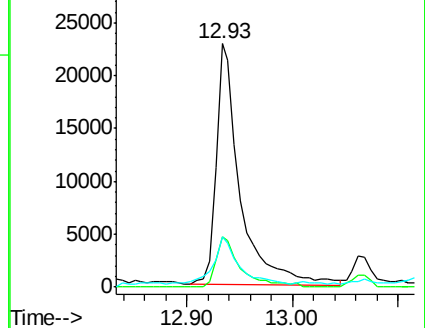
203 20.8 14.3 21.5

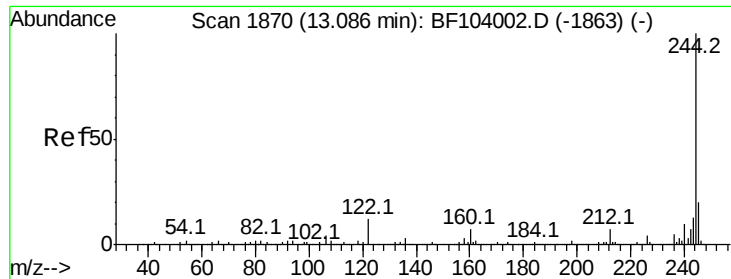


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

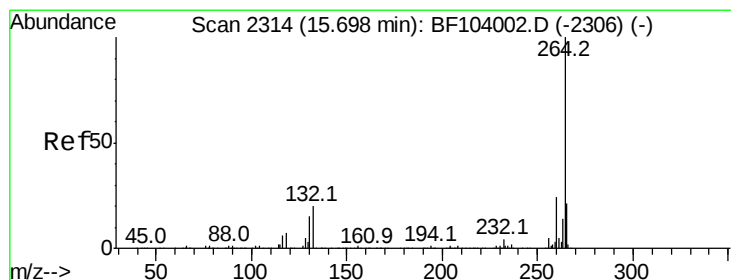
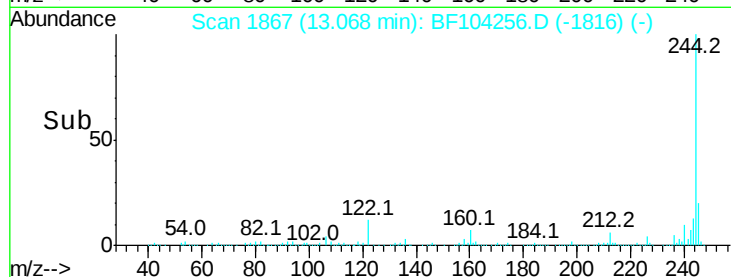
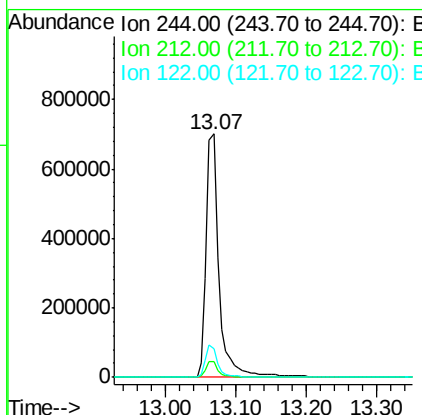
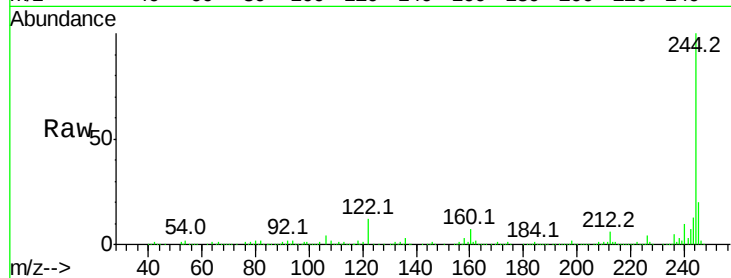




#78  
 Terphenyl-d14  
 Concen: 86.451 ng  
 RT: 13.07 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: BF104256.D  
 Acq: 5 Apr 2018 5:52

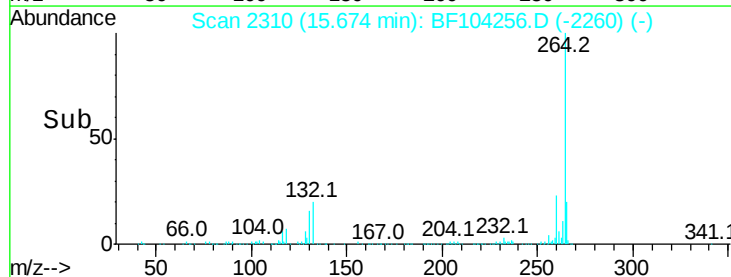
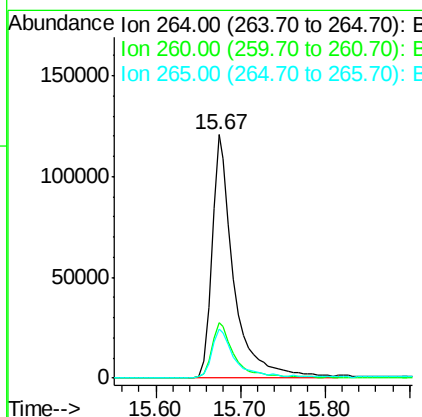
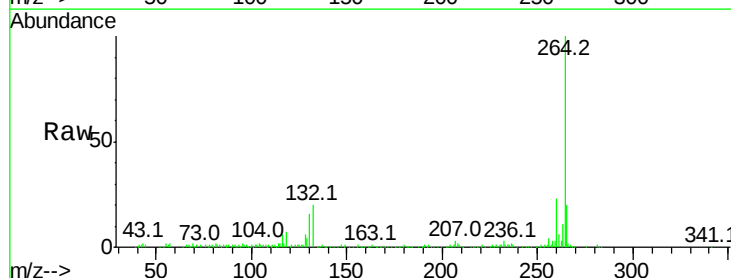
Instrument :  
 BNA\_F  
 ClientSampleId :

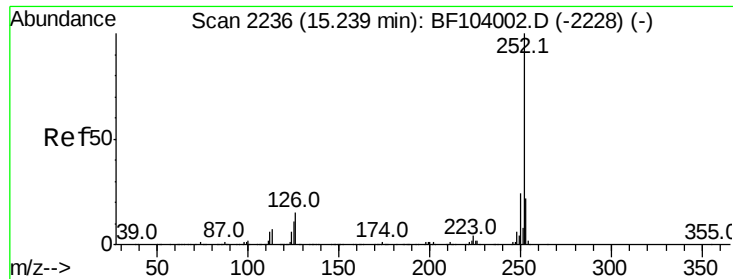
Tot Ion:244 Resp: 895850  
 Ion Ratio Lower Upper  
 244 100  
 212 6.5 5.4 8.0  
 122 11.6 11.0 16.4



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.67 min Scan# 2310  
 Delta R.T. -0.01 min  
 Lab File: BF104256.D  
 Acq: 5 Apr 2018 5:52

Tgt Ion:264 Resp: 219412  
 Ion Ratio Lower Upper  
 264 100  
 260 22.9 19.2 28.8  
 265 20.0 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 2.462 ng

RT: 15.22 min Scan# 2233

Delta R.T. -0.00 min

Lab File: BF104256.D

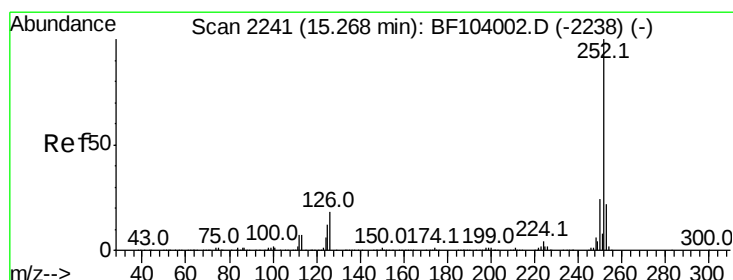
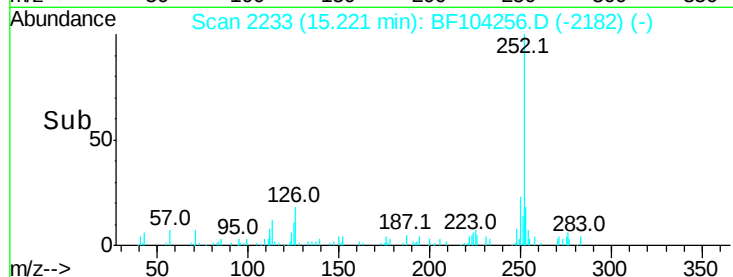
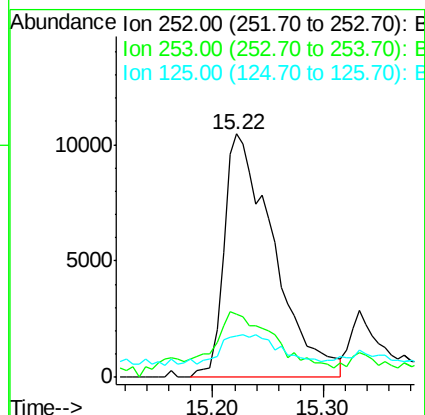
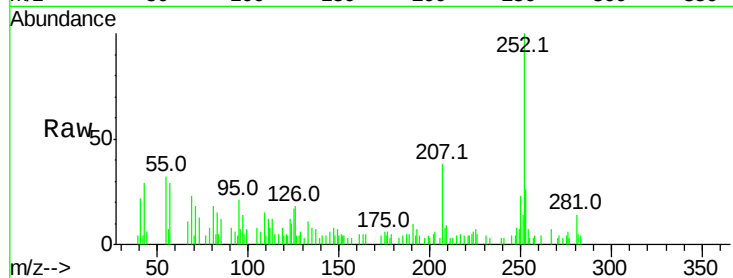
Acq: 5 Apr 2018 5:52

Instrument :

BNA\_F

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:252 | Resp: | 32869      |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 26.2  | 17.0 25.6# |
| 125         | 17.1  | 9.0 13.6#  |



#88

Benzo(k)fluoranthene

Concen: 2.613 ng

RT: 15.22 min Scan# 2233

Delta R.T. -0.03 min

Lab File: BF104256.D

Acq: 5 Apr 2018 5:52

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:252 | Resp: | 32869      |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 26.2  | 17.9 26.9  |
| 125         | 17.1  | 10.2 15.2# |

