

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062918\  
 Data File : BF106992.D  
 Acq On : 30 Jun 2018 00:13  
 Operator : JU/SJ  
 Sample : J3705-07  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-20

Quant Time: Jun 30 01:49:55 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 29 14:38:29 2018  
 Response via : Initial Calibration

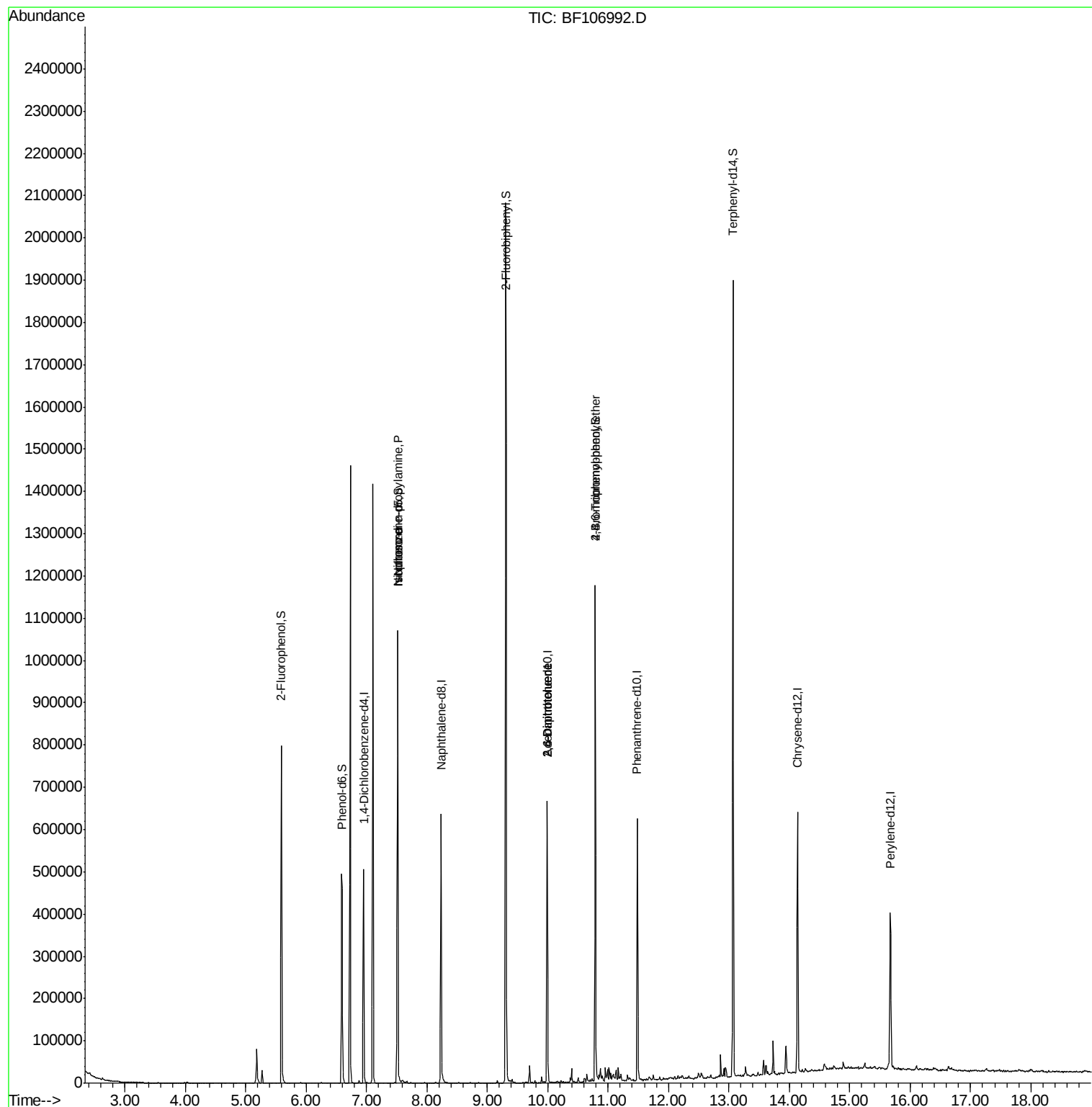
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.95  | 152  | 79806    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.24  | 136  | 300056   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.99  | 164  | 142489   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.48 | 188  | 245868   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12               | 14.14 | 240  | 222420   | 20.00     | ng    | -0.03    |
| 86) Perylene-d12               | 15.67 | 264  | 191073   | 20.00     | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.59  | 112  | 233246   | 49.49     | ng    | -0.01    |
| 7) Phenol-d6                   | 6.59  | 99   | 181478   | 30.83     | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.52  | 82   | 376334   | 69.70     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.79 | 330  | 174330   | 105.56    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.31  | 172  | 690894   | 81.46     | ng    | -0.02    |
| 78) Terphenyl-d14              | 13.07 | 244  | 705879   | 76.87     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 48965    | 12.621    | ng    | # 74     |
| 20) 3+4-Methylphenols          | 7.40  | 107  | 331      | Below Cal |       | # 20     |
| 25) Isophorone                 | 7.52  | 82   | 376328   | 39.554    | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.99  | 165  | 17958    | 7.936     | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 17958    | 6.080     | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 10524    | 3.587     | ng    | # 1      |

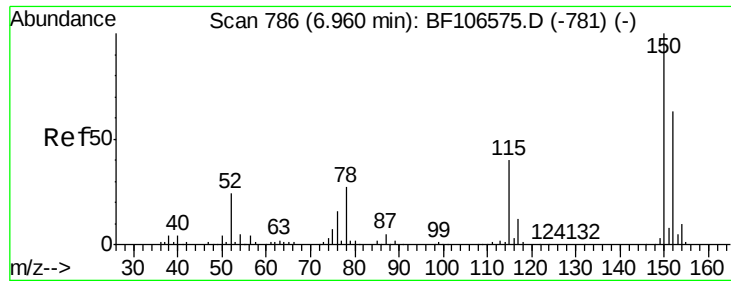
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062918\  
Data File : BF106992.D  
Acq On : 30 Jun 2018 00:13  
Operator : JU/SJ  
Sample : J3705-07  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
W-20

Quant Time: Jun 30 01:49:55 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 29 14:38:29 2018  
Response via : Initial Calibration

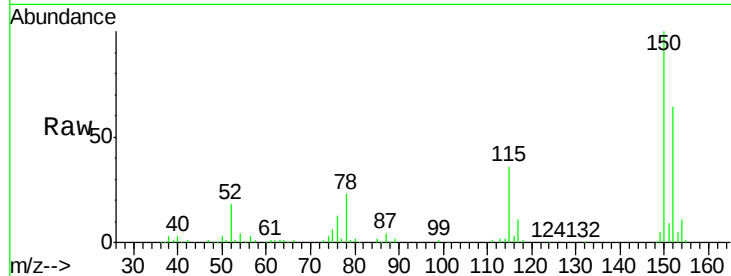




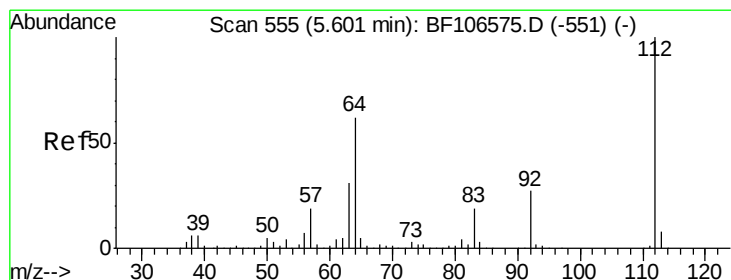
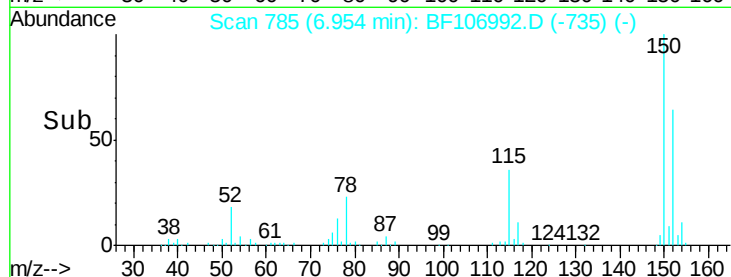
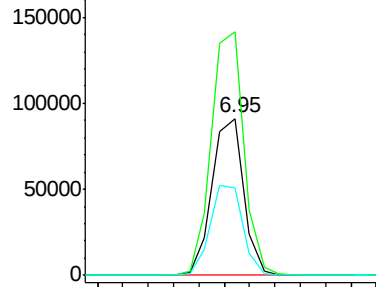
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.95 min Scan# 785  
 Delta R.T. -0.01 min  
 Lab File: BF106992.D  
 Acq: 30 Jun 2018 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-20

Tgt Ion:152 Resp: 79806  
 Ion Ratio Lower Upper  
 152 100  
 150 155.2 124.6 186.8  
 115 55.6 50.1 75.1

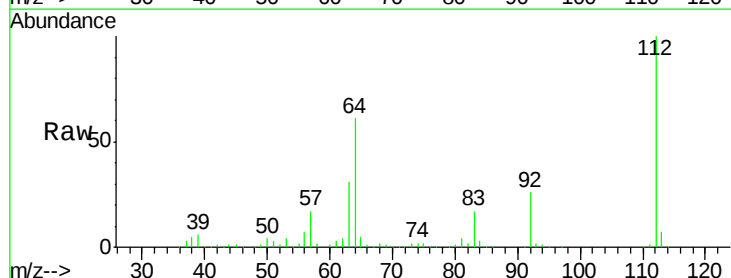


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

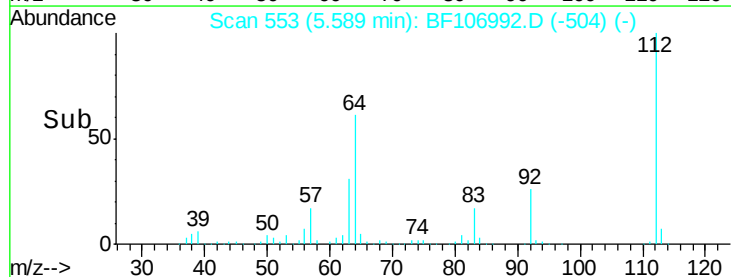
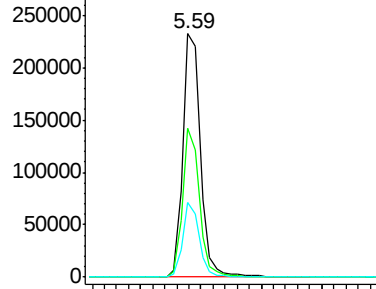


#5  
 2-Fluorophenol  
 Concen: 49.490 ng  
 RT: 5.59 min Scan# 553  
 Delta R.T. -0.01 min  
 Lab File: BF106992.D  
 Acq: 30 Jun 2018 00:13

Tgt Ion:112 Resp: 233246  
 Ion Ratio Lower Upper  
 112 100  
 64 61.0 47.9 71.9  
 63 30.6 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: 30.834 ng

RT: 6.59 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF106992.D

Acq: 30 Jun 2018 00:13

Instrument :

BNA\_F

ClientSampled :

W-20

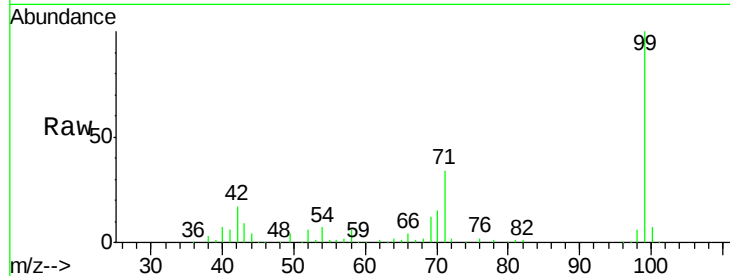
Tgt Ion: 99 Resp: 181478

Ion Ratio Lower Upper

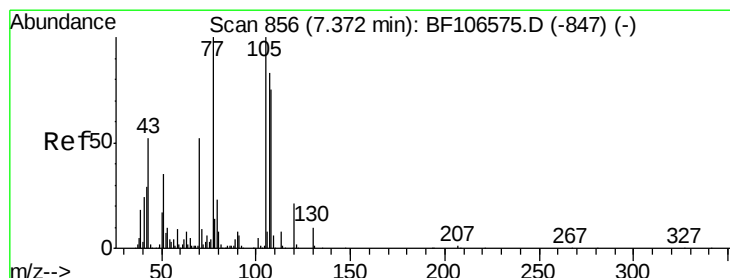
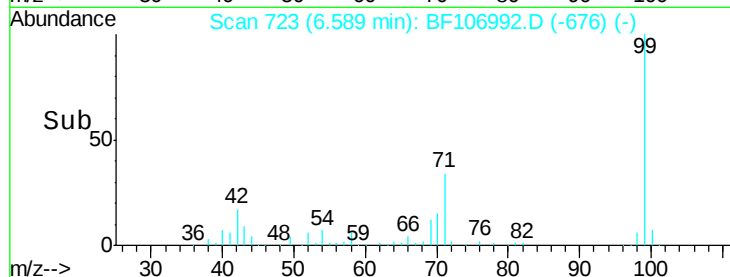
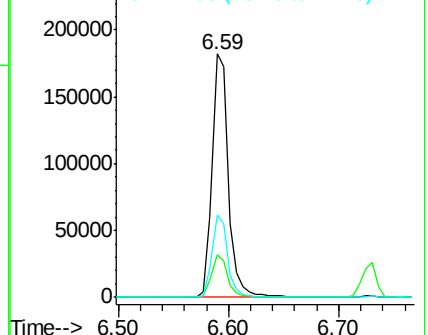
99 100

42 17.4 14.5 21.7

71 33.6 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: 12.621 ng

RT: 7.52 min Scan# 881

Delta R.T. 0.14 min

Lab File: BF106992.D

Acq: 30 Jun 2018 00:13

Tgt Ion: 70 Resp: 48965

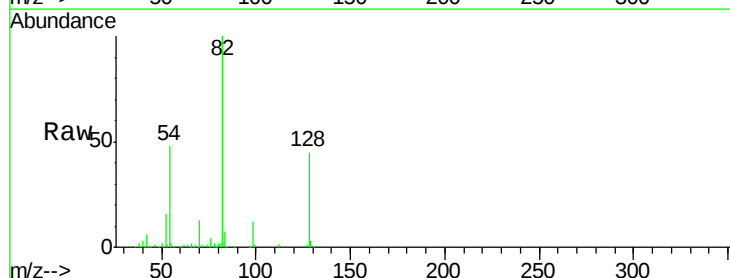
Ion Ratio Lower Upper

70 100

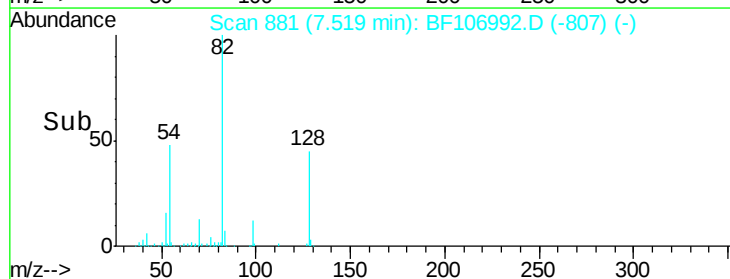
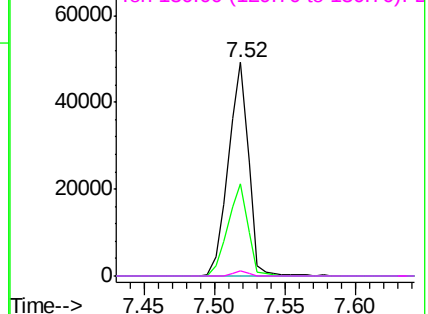
42 43.1 47.5 71.3#

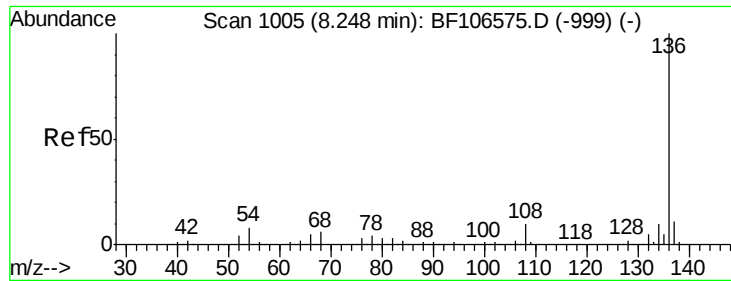
101 0.0 7.4 11.2#

130 2.2 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

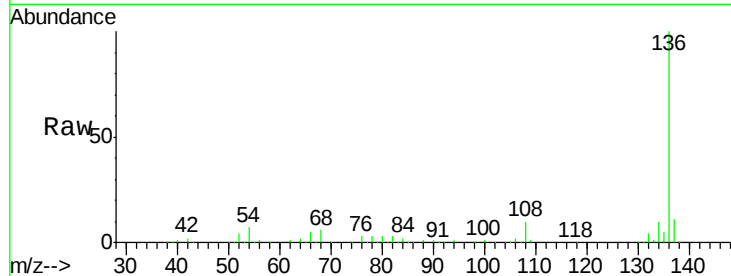




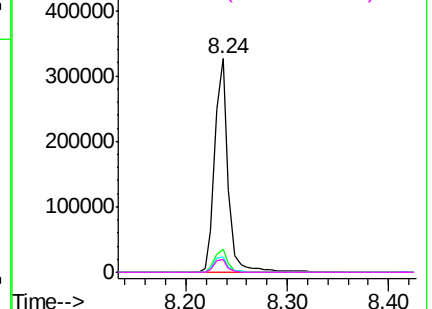
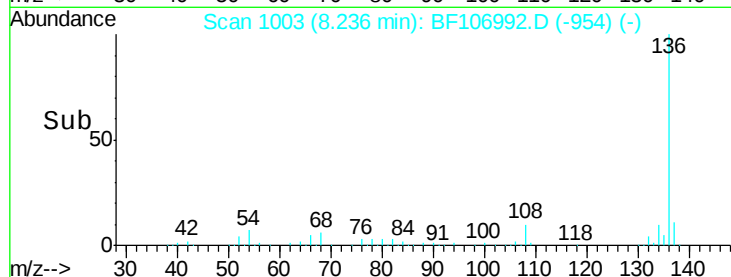
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.24 min Scan# 1003  
Delta R.T. -0.01 min  
Lab File: BF106992.D  
Acq: 30 Jun 2018 00:13

Instrument :  
BNA\_F  
ClientSampled :  
W-20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 300056 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.9   | 13.3   |
| 54       | 7.2   | 6.6   | 9.8    |
| 68       | 5.7   | 5.0   | 7.4    |

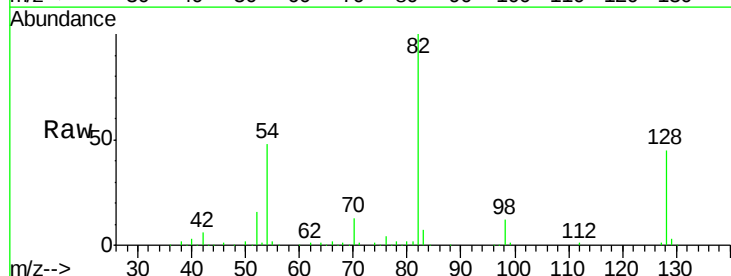


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

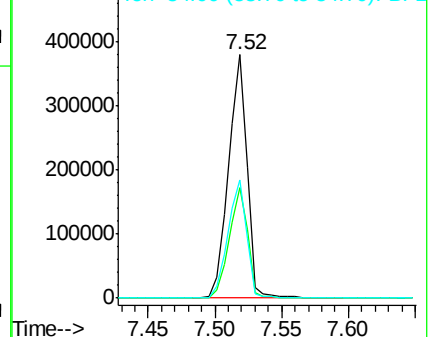
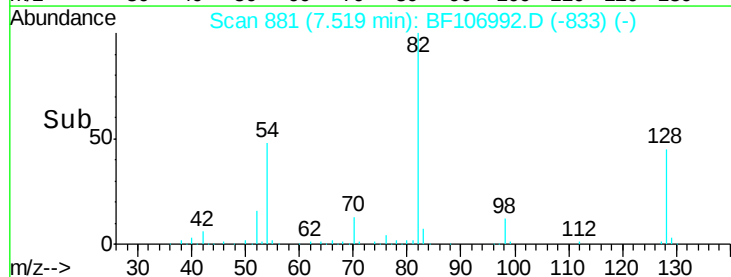


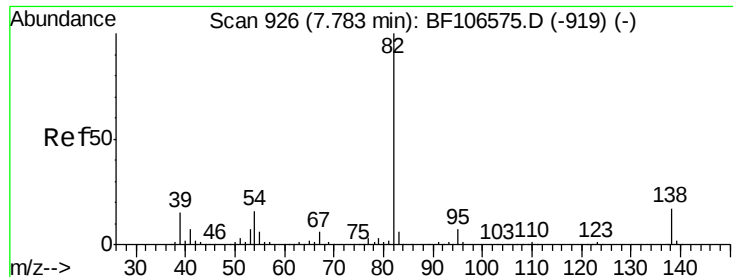
#23  
Nitrobenzene-d5  
Concen: 69.701 ng  
RT: 7.52 min Scan# 881  
Delta R.T. -0.02 min  
Lab File: BF106992.D  
Acq: 30 Jun 2018 00:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 376334 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.5  | 36.1  | 54.1   |
| 54       | 48.4  | 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

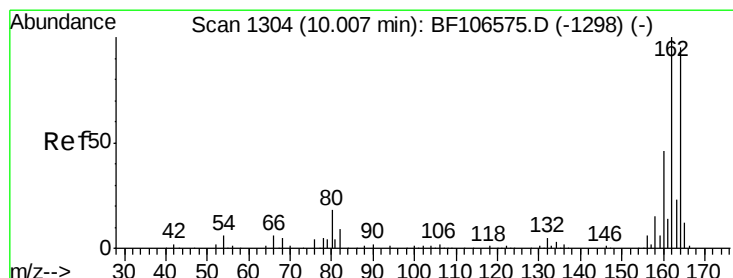
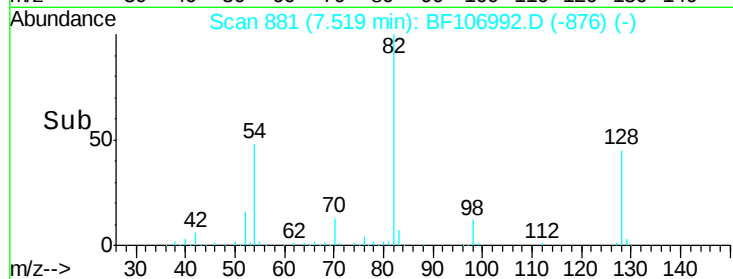
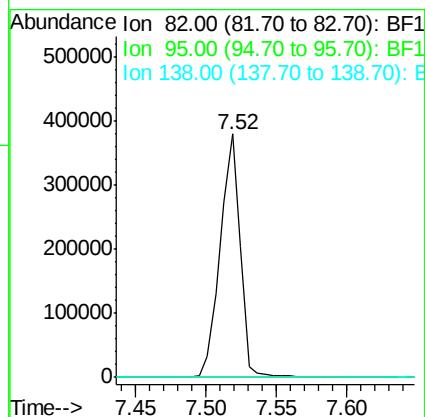
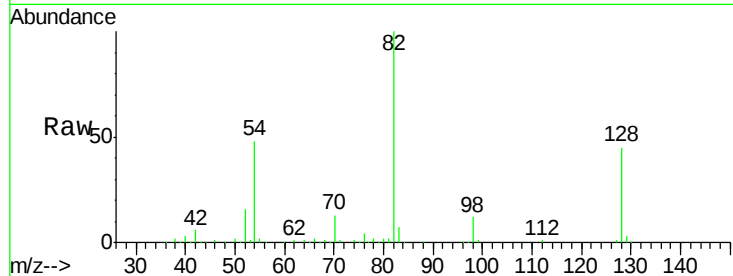




#25  
Isophorone  
Concen: 39.554 ng  
RT: 7.52 min Scan# 881  
Delta R.T. -0.27 min  
Lab File: BF106992.D  
Acq: 30 Jun 2018 00:13

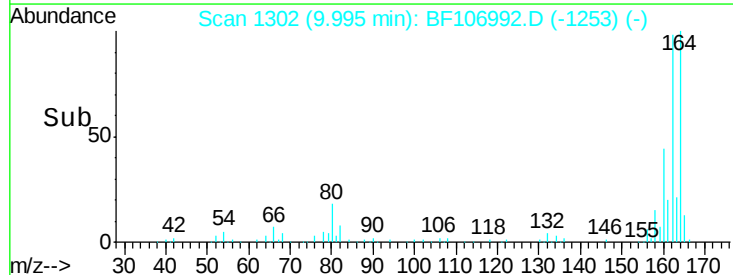
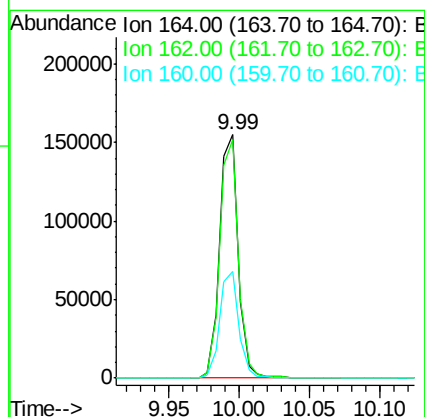
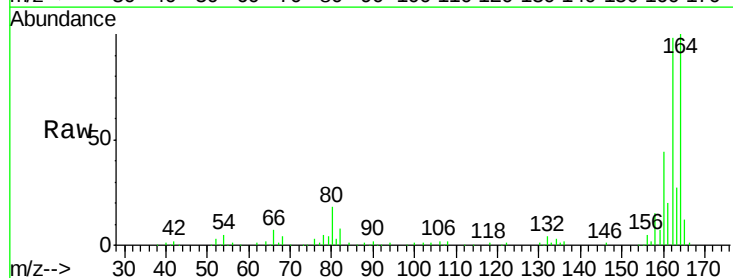
Instrument :  
BNA\_F  
ClientSampled :  
W-20

Tgt Ion: 82 Resp: 376328  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.99 min Scan# 1302  
Delta R.T. -0.01 min  
Lab File: BF106992.D  
Acq: 30 Jun 2018 00:13

Tgt Ion: 164 Resp: 142489  
Ion Ratio Lower Upper  
164 100  
162 97.9 86.1 129.1  
160 43.9 38.3 57.5

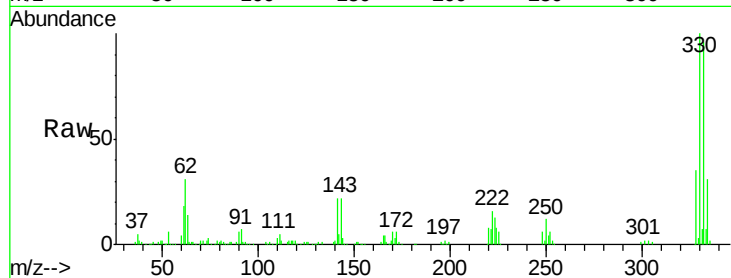




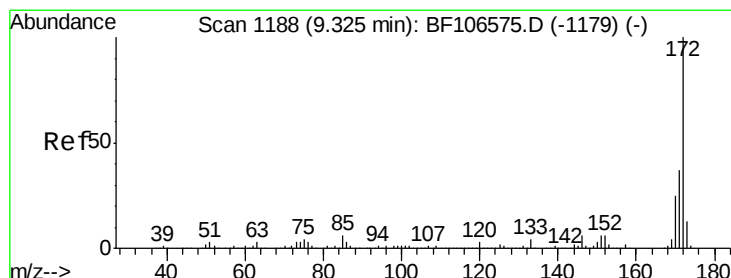
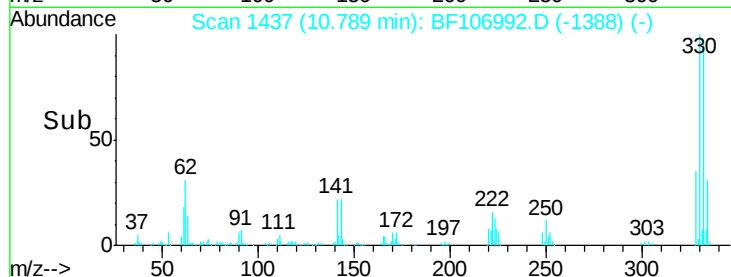
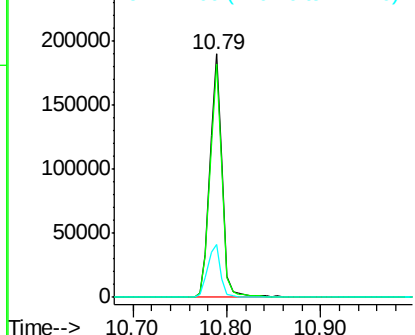
#41  
 2,4,6-Tribromophenol  
 Concen: 105.559 ng  
 RT: 10.79 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF106992.D  
 Acq: 30 Jun 2018 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-20

Tgt Ion:330 Resp: 174330  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 77.0 115.6  
 141 23.0 29.9 44.9#

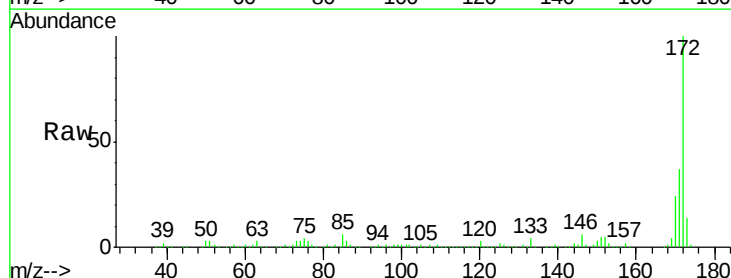


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

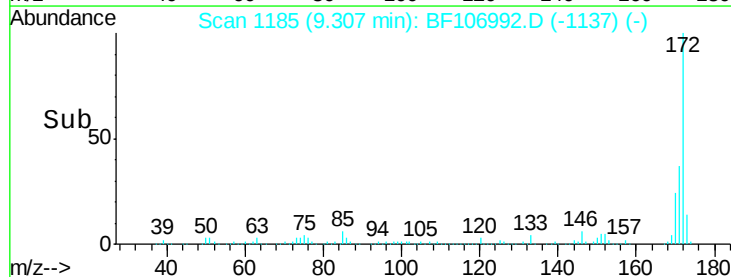
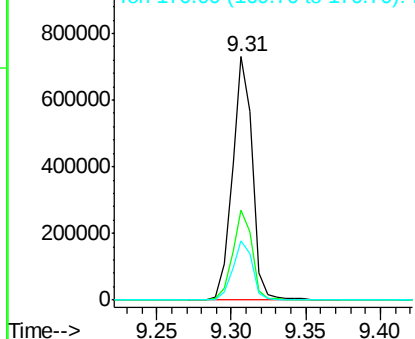


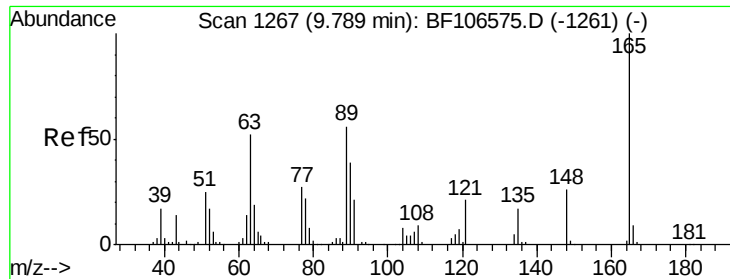
#44  
 2-Fluorobiphenyl  
 Concen: 81.456 ng  
 RT: 9.31 min Scan# 1185  
 Delta R.T. -0.02 min  
 Lab File: BF106992.D  
 Acq: 30 Jun 2018 00:13

Tgt Ion:172 Resp: 690894  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.7 44.5  
 170 24.3 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

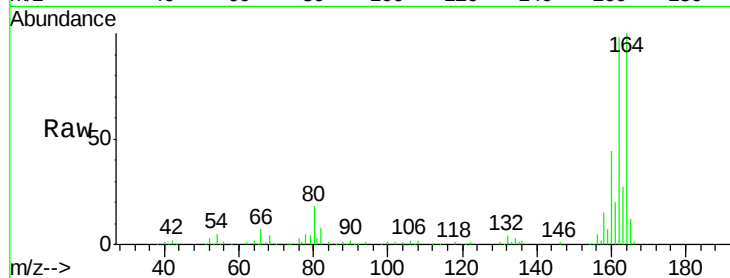




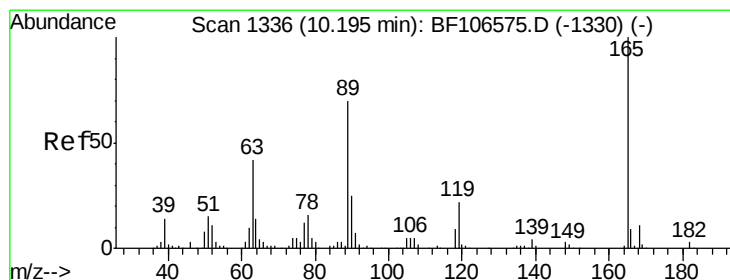
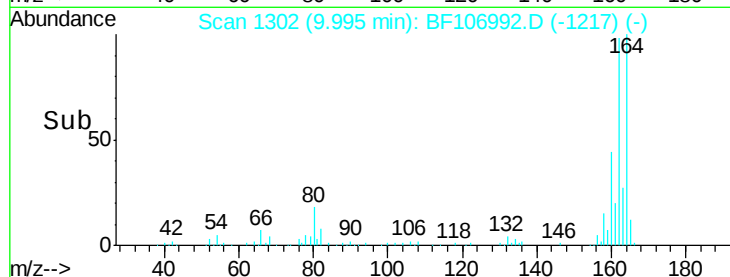
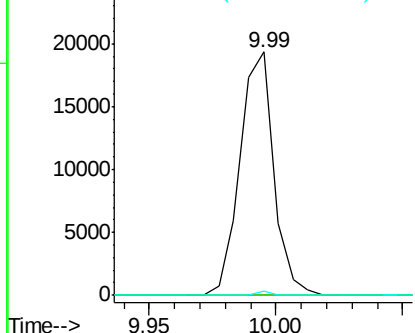
#50  
 2,6-Dinitrotoluene  
 Concen: 7.936 ng  
 RT: 9.99 min Scan# 1302  
 Delta R.T. 0.20 min  
 Lab File: BF106992.D  
 Acq: 30 Jun 2018 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-20

Tgt Ion:165 Resp: 17958  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 44.7 67.1#  
 89 1.6 44.0 66.0#

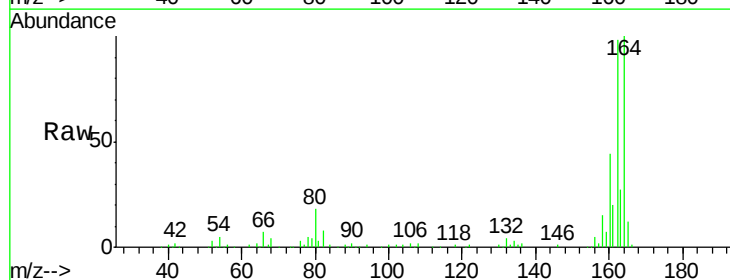


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

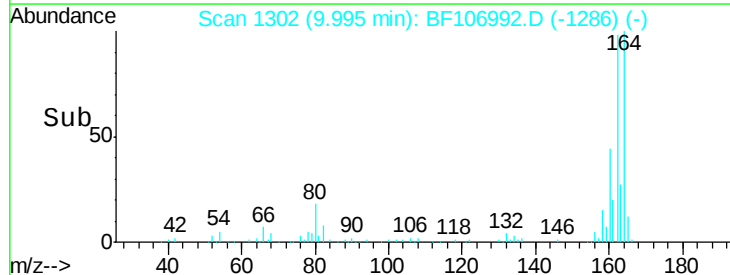
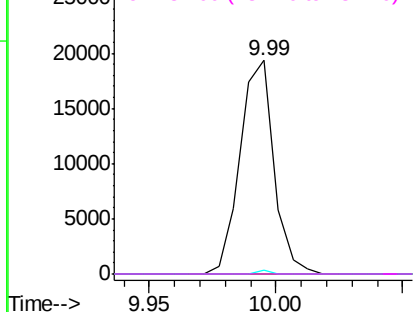


#56  
 2,4-Dinitrotoluene  
 Concen: 6.080 ng  
 RT: 9.99 min Scan# 1302  
 Delta R.T. -0.21 min  
 Lab File: BF106992.D  
 Acq: 30 Jun 2018 00:13

Tgt Ion:165 Resp: 17958  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 36.4 54.6#  
 89 1.6 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

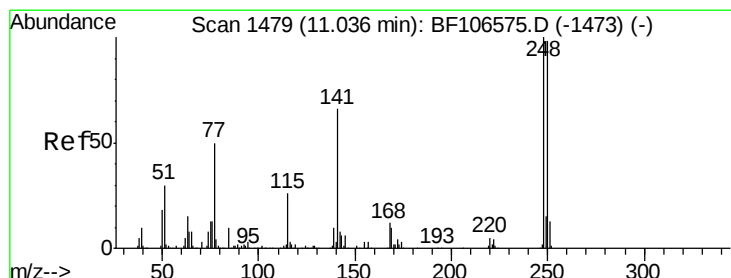
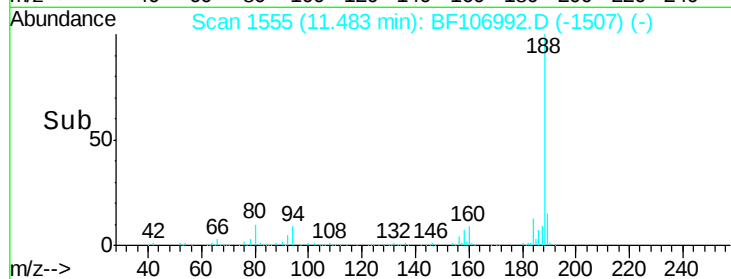
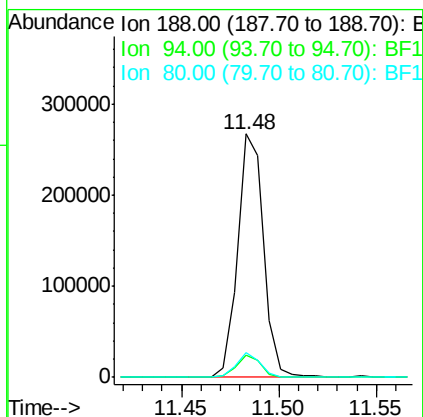
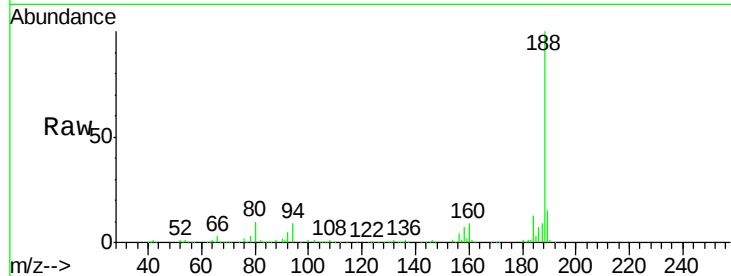




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.48 min Scan# 1555  
Delta R.T. -0.02 min  
Lab File: BF106992.D  
Acq: 30 Jun 2018 00:13

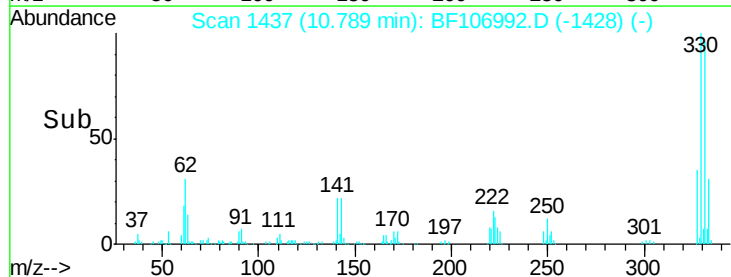
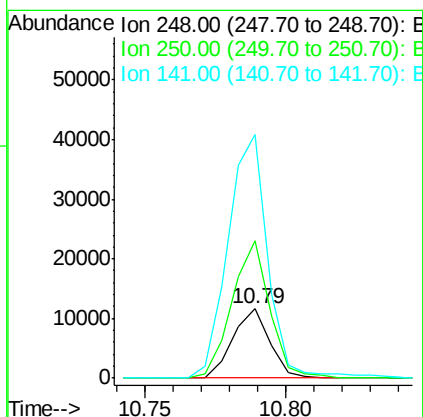
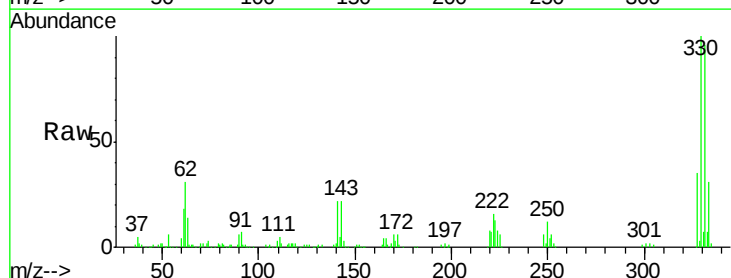
Instrument :  
BNA\_F  
ClientSampleId :  
W-20

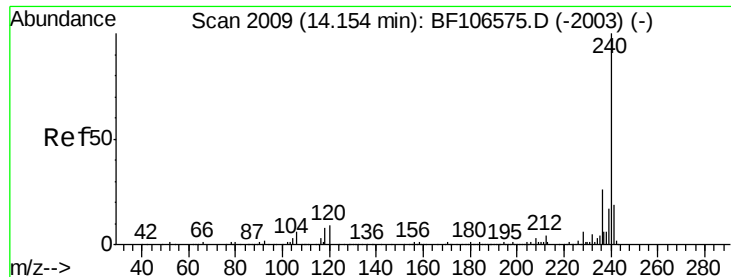
Tgt Ion:188 Resp: 245868  
Ion Ratio Lower Upper  
188 100  
94 8.9 8.5 12.7  
80 9.9 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 3.587 ng  
RT: 10.79 min Scan# 1437  
Delta R.T. -0.25 min  
Lab File: BF106992.D  
Acq: 30 Jun 2018 00:13

Tgt Ion:248 Resp: 10524  
Ion Ratio Lower Upper  
248 100  
250 198.0 76.9 115.3#  
141 350.8 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2006

Delta R.T. -0.03 min

Lab File: BF106992.D

Acq: 30 Jun 2018 00:13

Instrument :

BNA\_F

ClientSampleId :

W-20

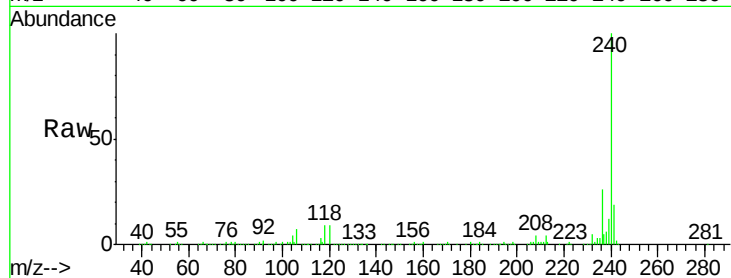
Tgt Ion:240 Resp: 222420

Ion Ratio Lower Upper

240 100

120 9.5 9.5 14.3#

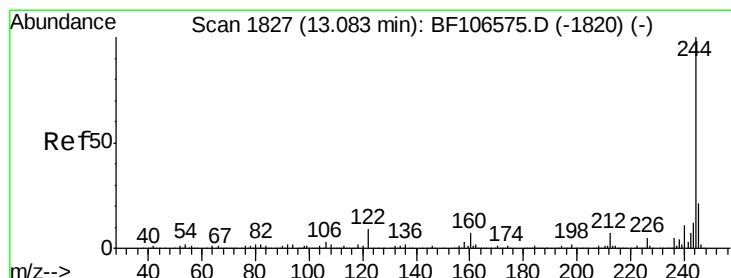
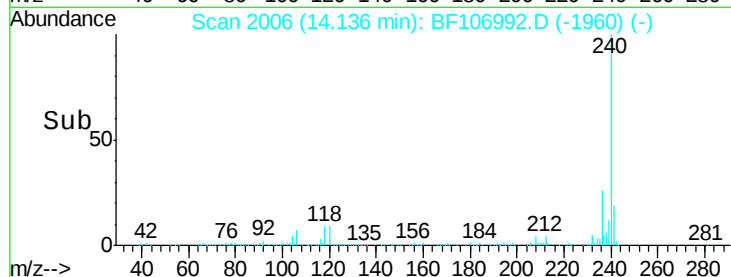
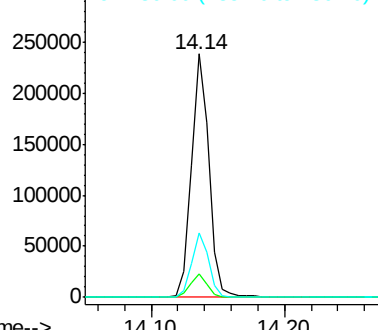
236 26.4 20.7 31.1



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



#78

Terphenyl-d14

Concen: 76.875 ng

RT: 13.07 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF106992.D

Acq: 30 Jun 2018 00:13

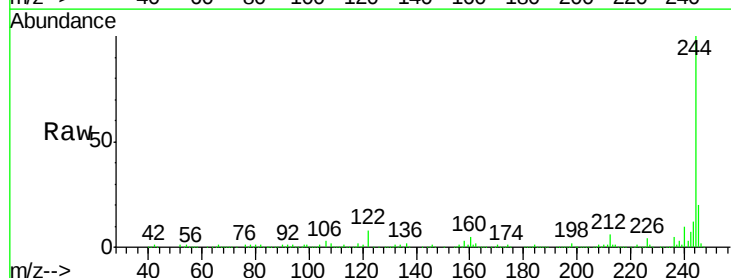
Tgt Ion:244 Resp: 705879

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

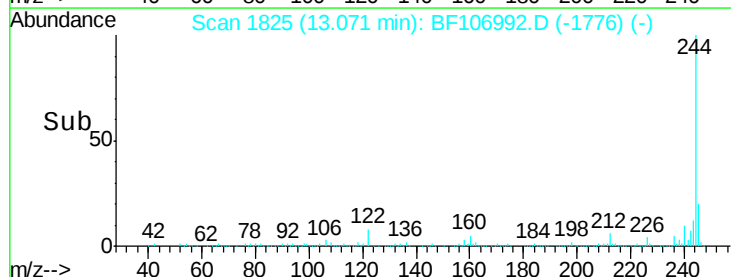
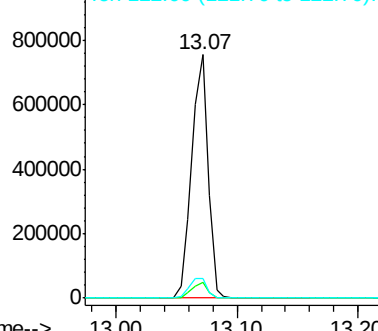
122 8.1 11.0 16.4#

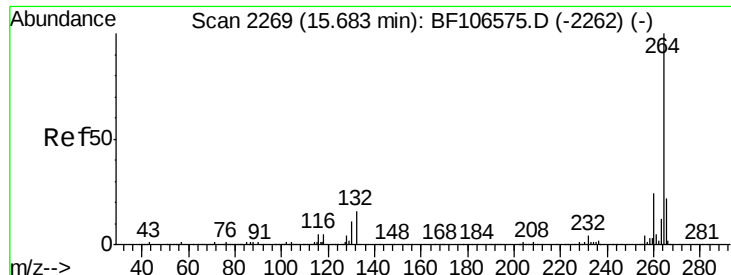


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

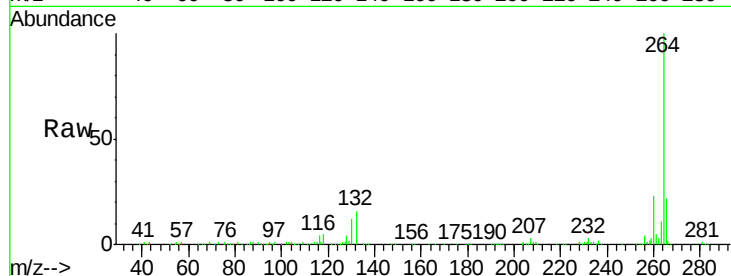




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.67 min Scan# 2267  
Delta R.T. -0.05 min  
Lab File: BF106992.D  
Acq: 30 Jun 2018 00:13

Instrument :  
BNA\_F  
ClientSampleId :  
W-20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 191073 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.4  | 19.2  | 28.8   |
| 265      | 21.7  | 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

