

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110617\  
 Data File : BF100271.D  
 Acq On : 7 Nov 2017 3:41  
 Operator : SJ/JU  
 Sample : I6318-01  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 07 06:00:22 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 07 02:59:38 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.76  | 152  | 98788    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.04  | 136  | 401775   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.79  | 164  | 187510   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.29 | 188  | 331494   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.94 | 240  | 184285   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.41 | 264  | 166062   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.39  | 112  | 379716   | 60.35  | ng    | 0.01     |
| 7) Phenol-d6                | 6.42  | 99   | 288874   | 38.72  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 589060   | 94.39  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 228243   | 133.57 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 1125904  | 92.64  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.87 | 244  | 944682   | 112.03 | ng    | 0.00     |

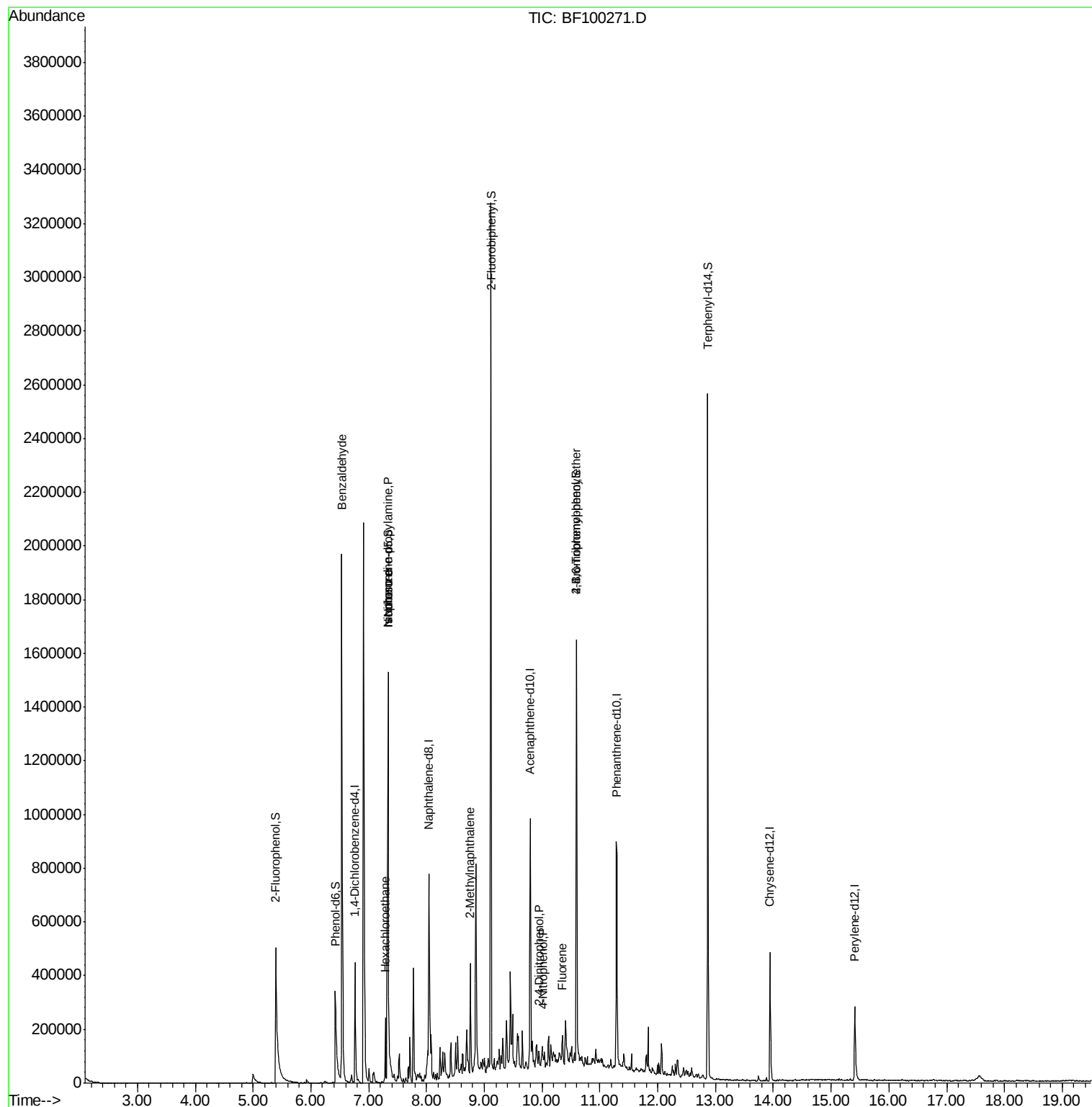
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.53  | 77   | 13931    | 3.125  | ng    | 90     |
| 18) Hexachloroethane           | 7.29  | 117  | 23622    | 9.265  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70   | 73435    | 16.795 | ng    | # 71   |
| 25) Isophorone                 | 7.33  | 82   | 589060   | 52.018 | ng    | # 64   |
| 37) 2-Methylnaphthalene        | 8.76  | 142  | 115898   | 8.917  | ng    | 97     |
| 53) 2,4-Dinitrophenol          | 9.95  | 184  | 857      | 6.407  | ng    | # 73   |
| 55) 4-Nitrophenol              | 10.02 | 139  | 8417     | 4.380  | ng    | # 27   |
| 57) Fluorene                   | 10.35 | 166  | 27994    | 2.066  | ng    | 94     |
| 66) 4-Bromophenyl-phenylether  | 10.59 | 248  | 14922    | 4.276  | ng    | # 1    |

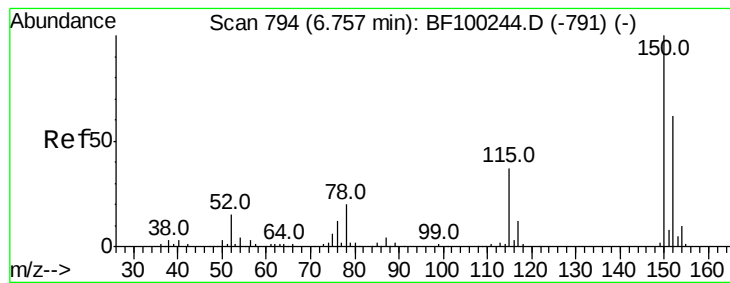
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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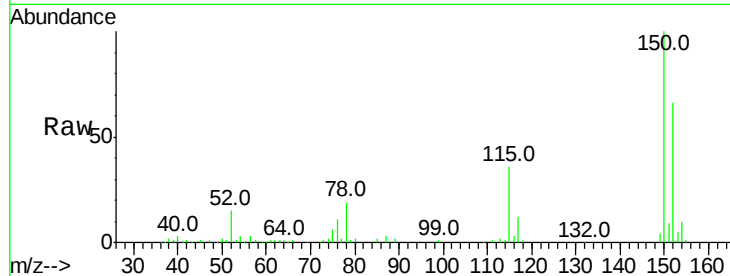


#1

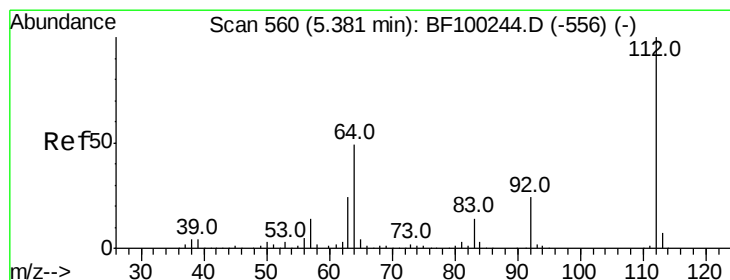
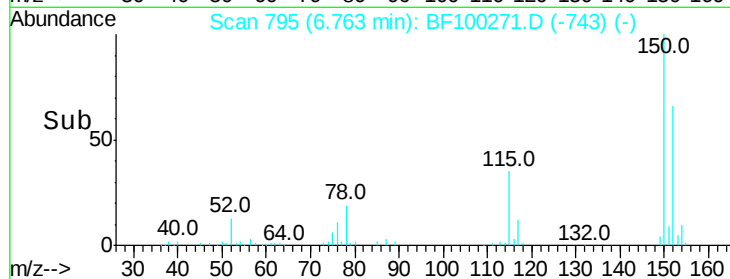
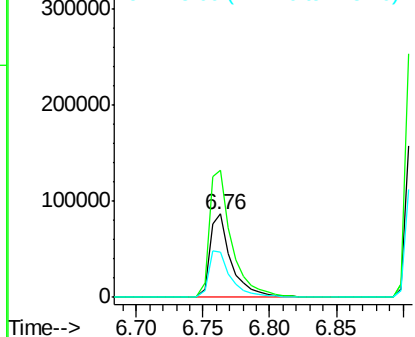
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.76 min Scan# 795  
Delta R.T. 0.01 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 98788  
Ion Ratio Lower Upper  
152 100  
150 151.7 124.6 186.8  
115 54.2 50.1 75.1



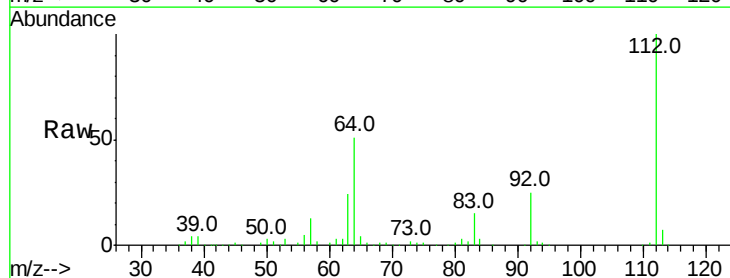
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



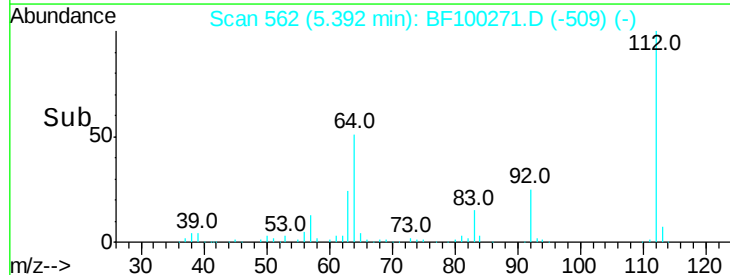
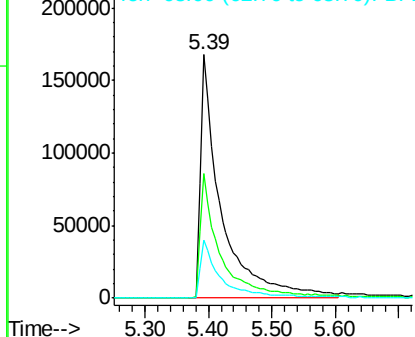
#5

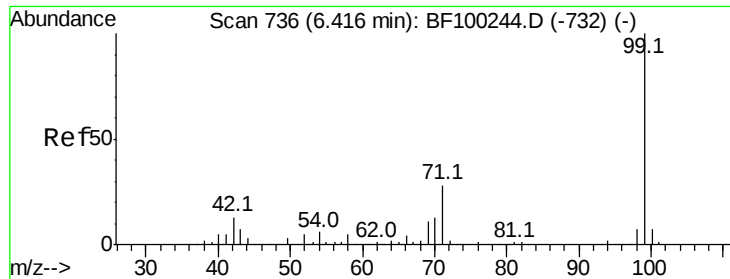
2-Fluorophenol  
Concen: 60.346 ng  
RT: 5.39 min Scan# 562  
Delta R.T. 0.01 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Tgt Ion:112 Resp: 379716  
Ion Ratio Lower Upper  
112 100  
64 51.1 47.9 71.9  
63 23.8 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: 38.718 ng

RT: 6.42 min Scan# 737

Delta R.T. 0.01 min

Lab File: BF100271.D

Acq: 7 Nov 2017 3:41

Instrument :

BNA\_F

ClientSampleId :

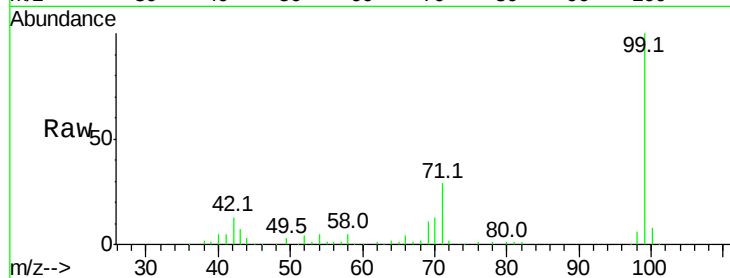
Tot Ion: 99 Resp: 288874

Ion Ratio Lower Upper

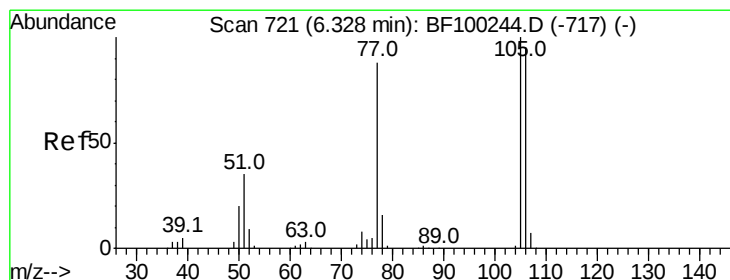
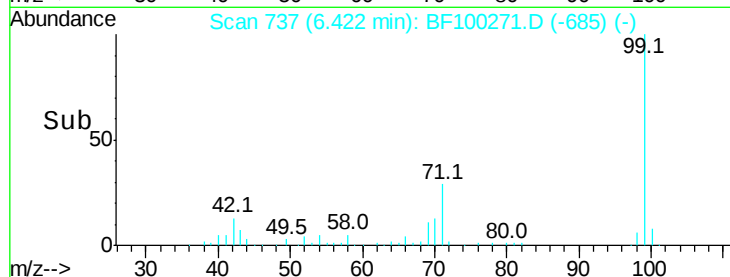
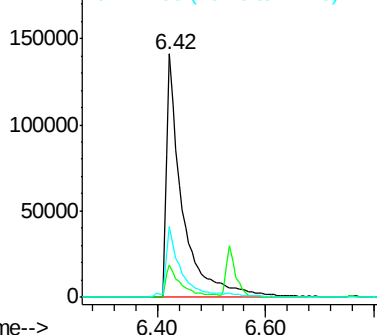
99 100

42 13.3 14.5 21.7#

71 28.9 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: 3.125 ng

RT: 6.53 min Scan# 756

Delta R.T. 0.21 min

Lab File: BF100271.D

Acq: 7 Nov 2017 3:41

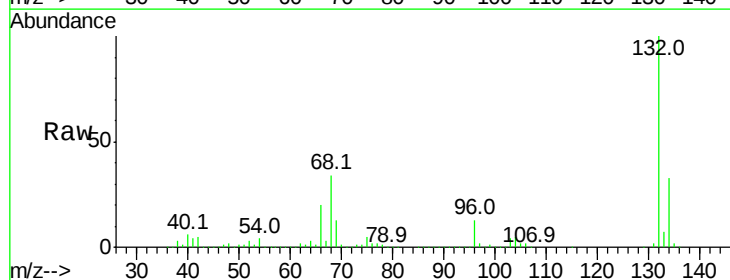
Tgt Ion: 77 Resp: 13931

Ion Ratio Lower Upper

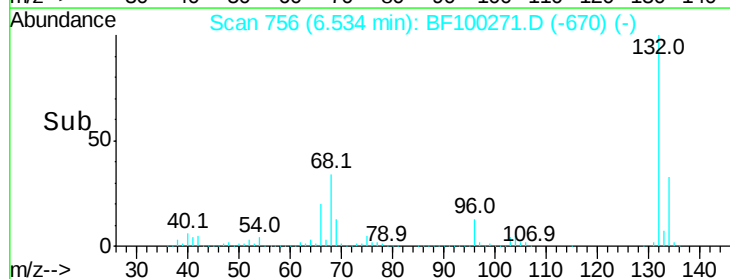
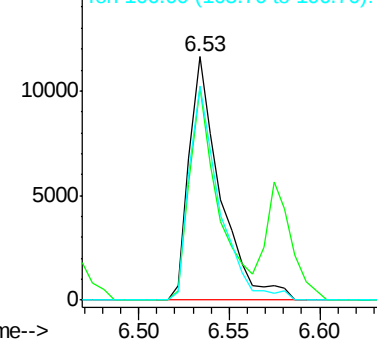
77 100

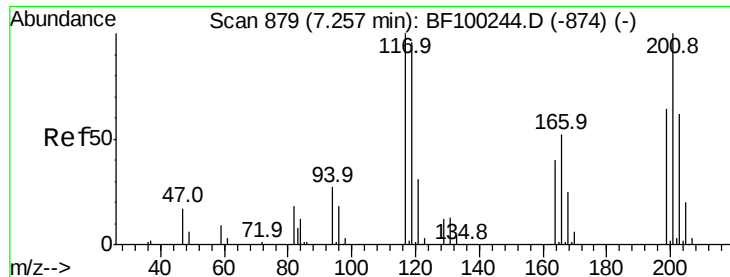
105 87.3 81.1 121.1

106 88.0 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

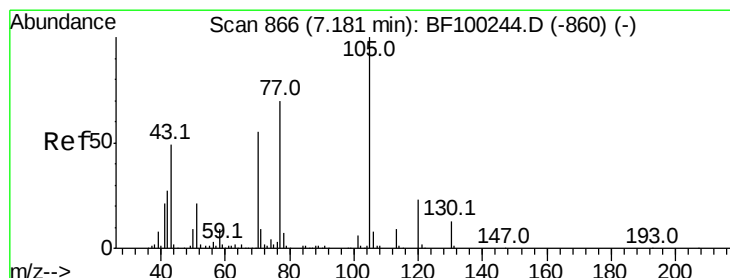
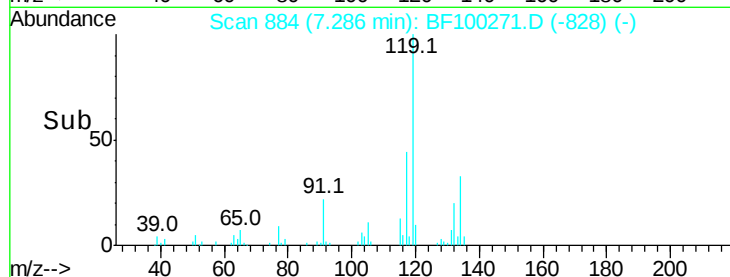
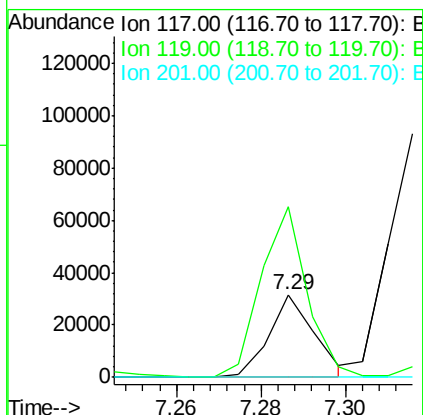
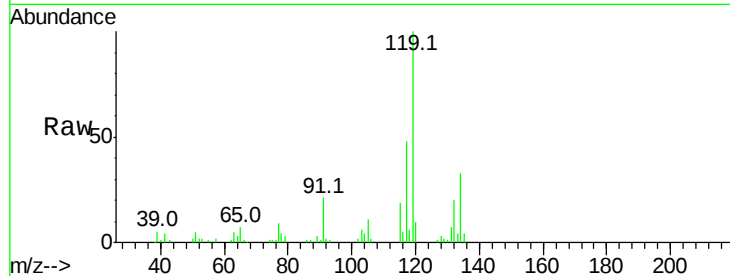




#18  
Hexachloroethane  
Concen: 9.265 ng  
RT: 7.29 min Scan# 884  
Delta R.T. 0.03 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

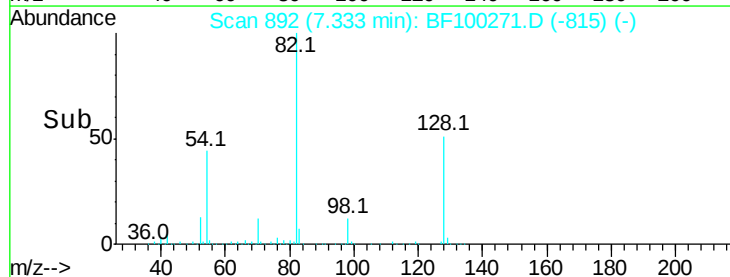
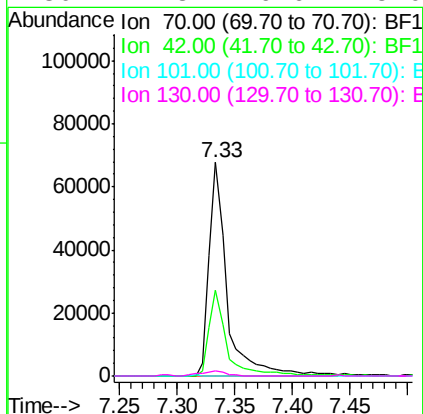
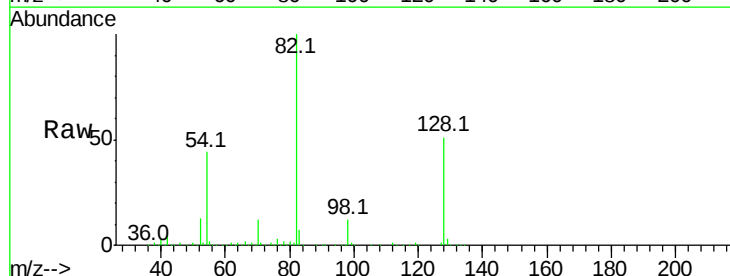
Instrument :  
BNA\_F  
ClientSampleId :

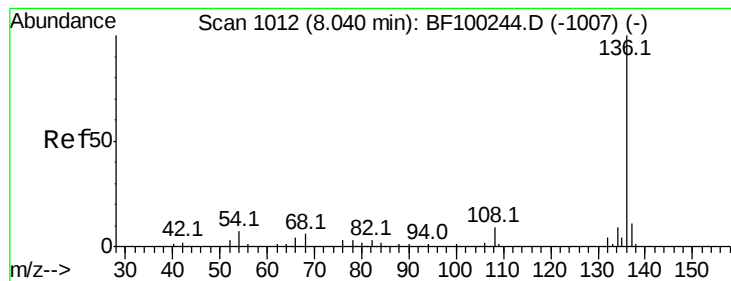
Tot Ion:117 Resp: 23622  
Ion Ratio Lower Upper  
117 100  
119 206.2 75.8 113.8#  
201 0.0 75.7 113.5#



#19  
n-Nitroso-di-n-propylamine  
Concen: 16.795 ng  
RT: 7.33 min Scan# 892  
Delta R.T. 0.15 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Tgt Ion: 70 Resp: 73435  
Ion Ratio Lower Upper  
70 100  
42 40.4 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.3 16.6 25.0#

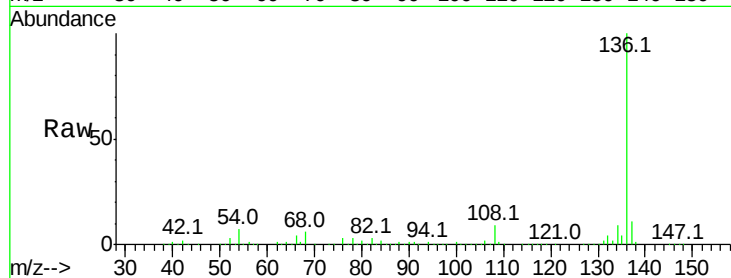




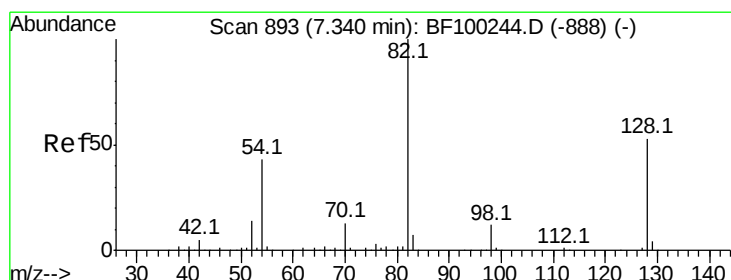
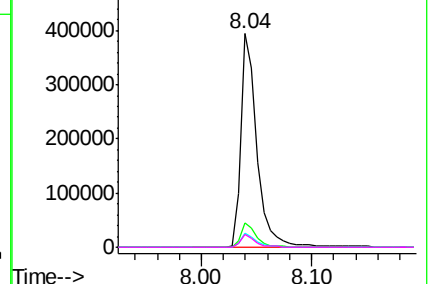
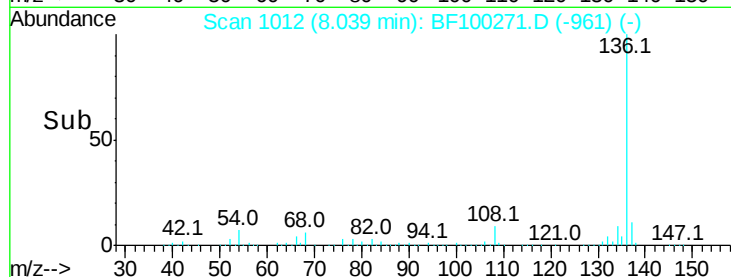
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.04 min Scan# 1012  
Delta R.T. -0.00 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 401775 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.9   | 13.3   |
| 54       | 6.7   | 6.6   | 9.8    |
| 68       | 5.9   | 5.0   | 7.4    |

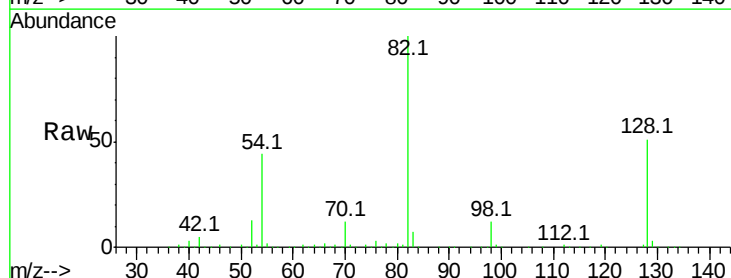


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

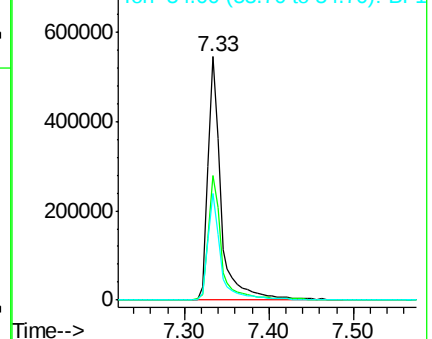
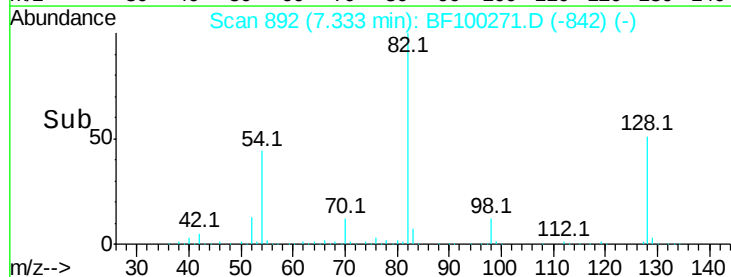


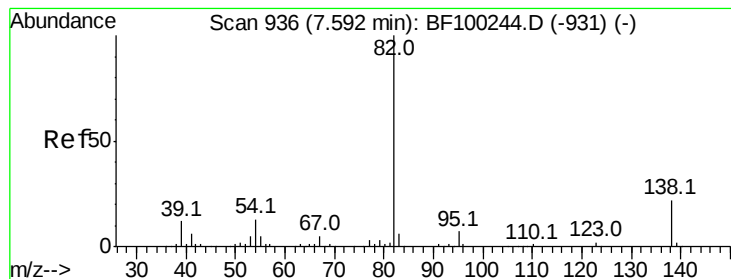
#23  
Nitrobenzene-d5  
Concen: 94.391 ng  
RT: 7.33 min Scan# 892  
Delta R.T. -0.01 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 589060 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 51.3  | 36.1  | 54.1   |
| 54       | 43.8  | 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: 52.018 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.26 min

Lab File: BF100271.D

Acq: 7 Nov 2017 3:41

Instrument :

BNA\_F

ClientSampleId :

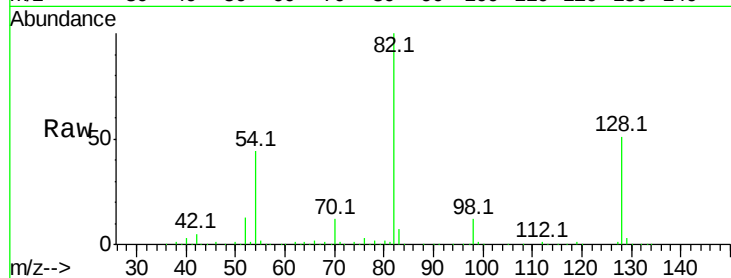
Tot Ion: 82 Resp: 589060

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

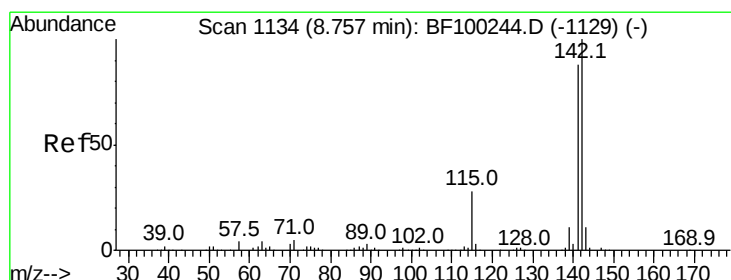
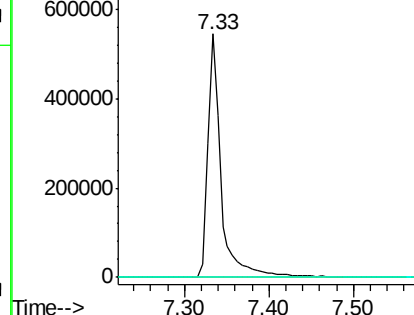
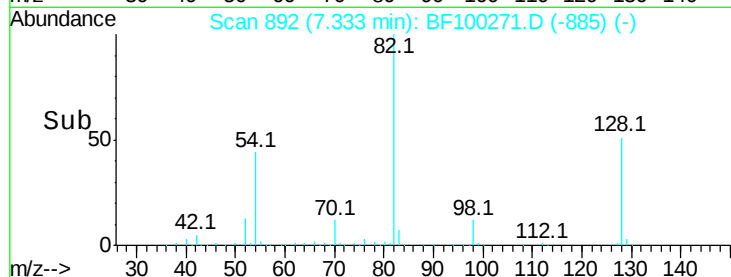
138 0.0 14.9 22.3#



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



#37

2-Methylnaphthalene

Concen: 8.917 ng

RT: 8.76 min Scan# 1134

Delta R.T. -0.00 min

Lab File: BF100271.D

Acq: 7 Nov 2017 3:41

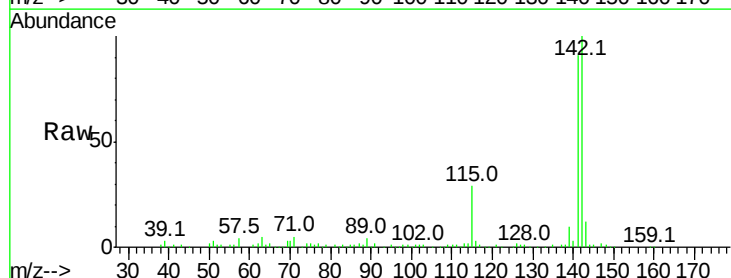
Tgt Ion: 142 Resp: 115898

Ion Ratio Lower Upper

142 100

141 90.7 70.8 106.2

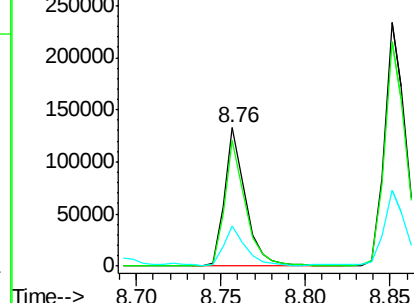
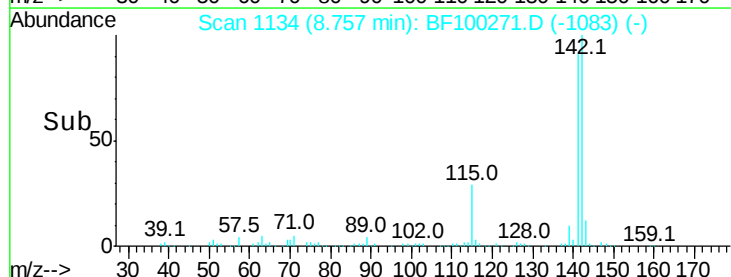
115 29.3 26.1 39.1

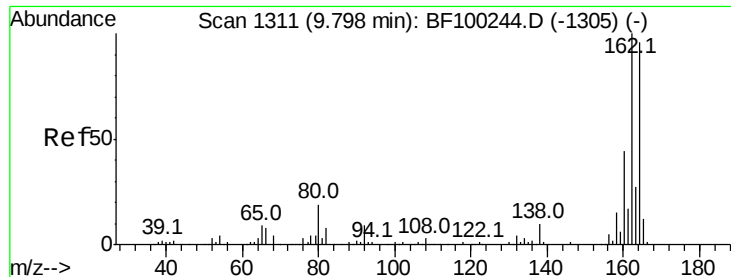


Abundance Ion 142.00 (141.70 to 142.70): BF1

Ion 141.00 (140.70 to 141.70): BF1

Ion 115.00 (114.70 to 115.70): BF1

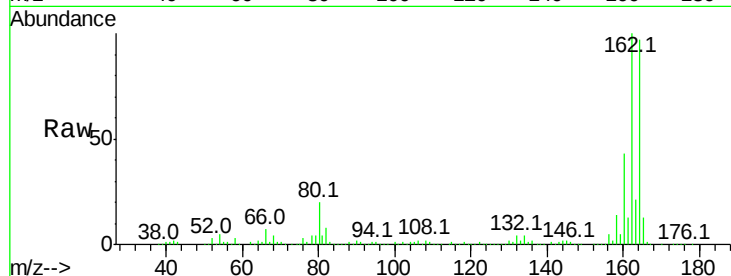




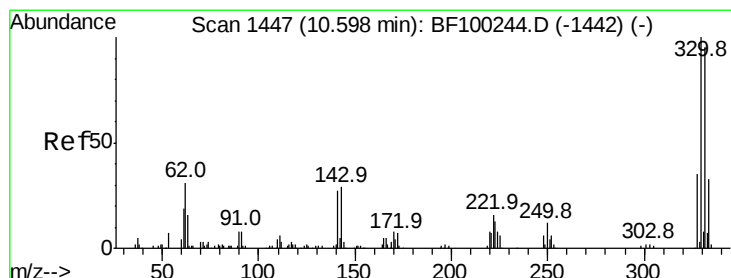
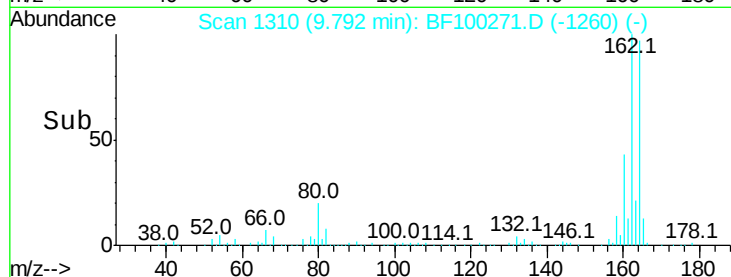
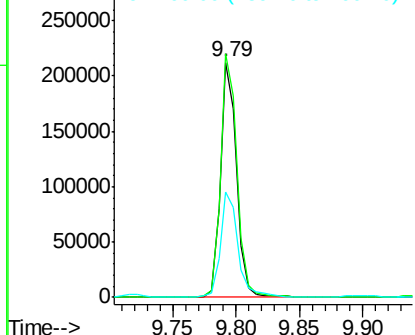
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.79 min Scan# 1310  
Delta R.T. -0.01 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 187510  
Ion Ratio Lower Upper  
164 100  
162 103.5 86.1 129.1  
160 44.9 38.3 57.5

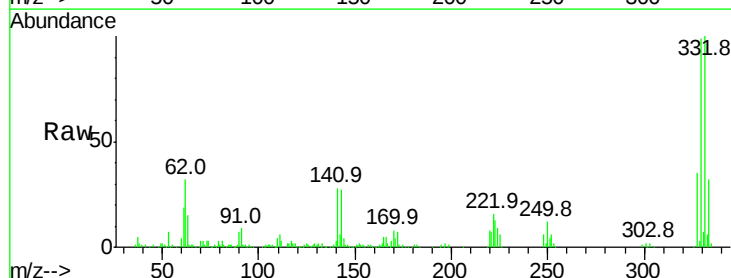


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

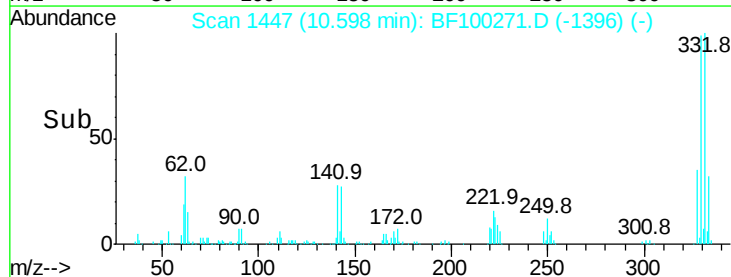
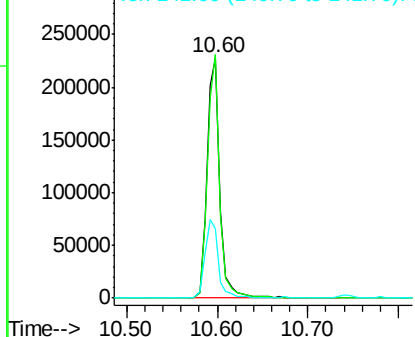


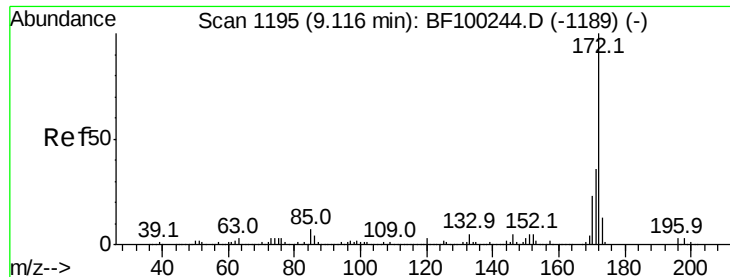
#41  
2,4,6-Tribromophenol  
Concen: 133.568 ng  
RT: 10.60 min Scan# 1447  
Delta R.T. -0.00 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Tgt Ion:330 Resp: 228243  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.0 115.6  
141 33.5 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

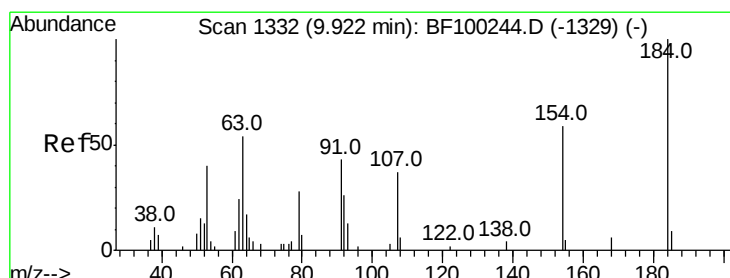
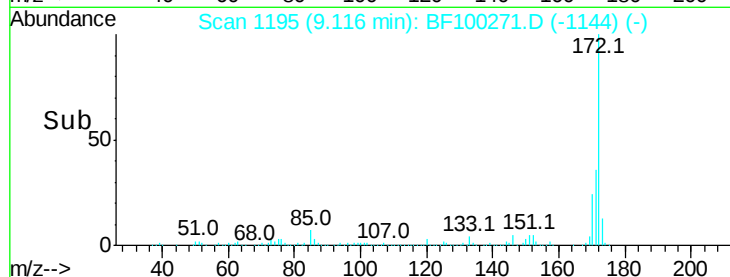
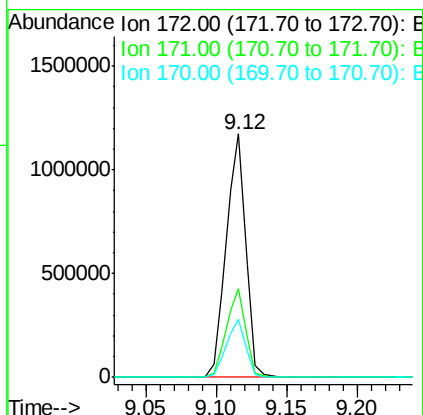
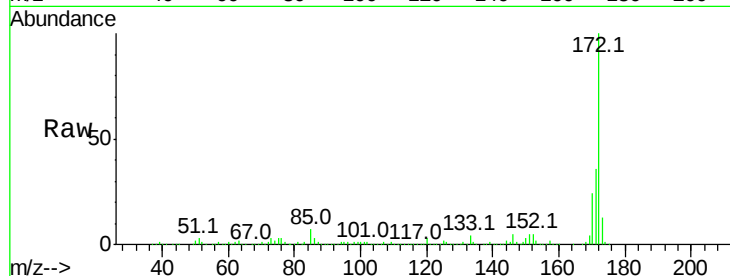




#44  
2-Fluorobiphenyl  
Concen: 92.640 ng  
RT: 9.12 min Scan# 1195  
Delta R.T. -0.00 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

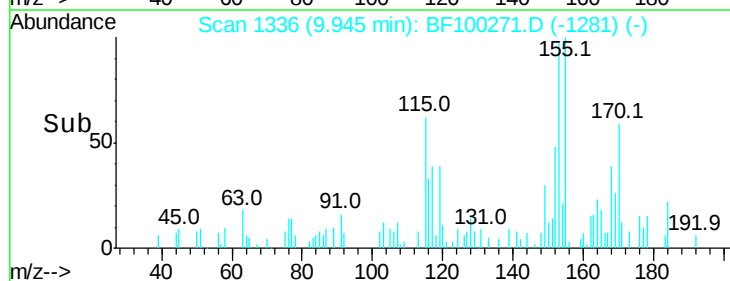
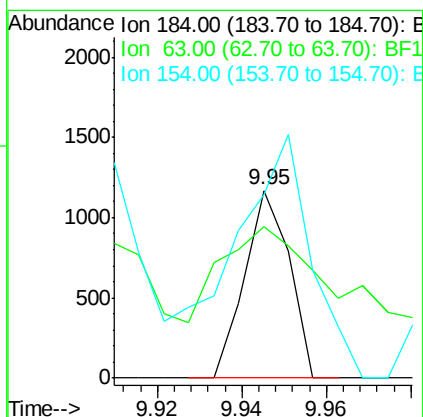
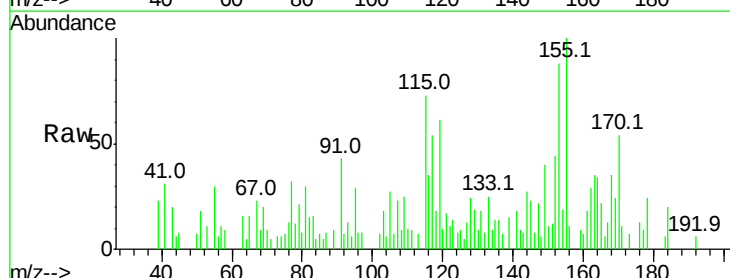
Instrument :  
BNA\_F  
ClientSampleId :

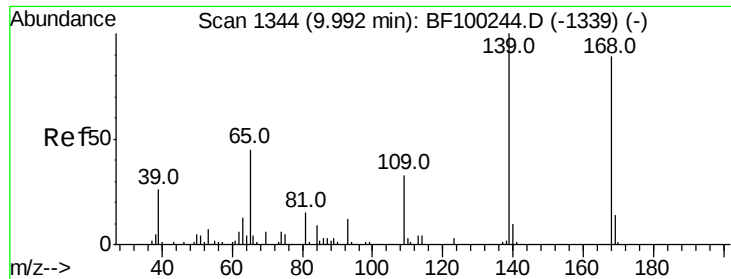
Tot Ion:172 Resp: 1125904  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.7 44.5  
170 23.9 19.6 29.4



#53  
2,4-Dinitrophenol  
Concen: 6.407 ng  
RT: 9.95 min Scan# 1336  
Delta R.T. 0.02 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Tgt Ion:184 Resp: 857  
Ion Ratio Lower Upper  
184 100  
63 80.9 54.2 81.2  
154 97.4 53.5 80.3#

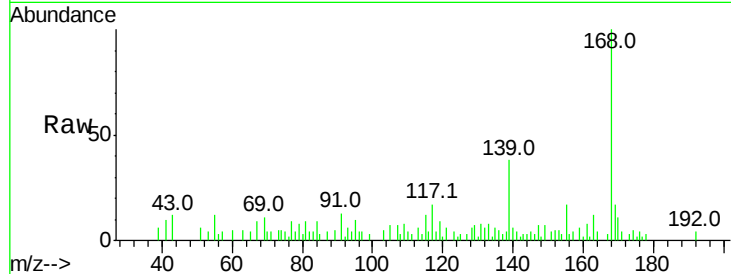




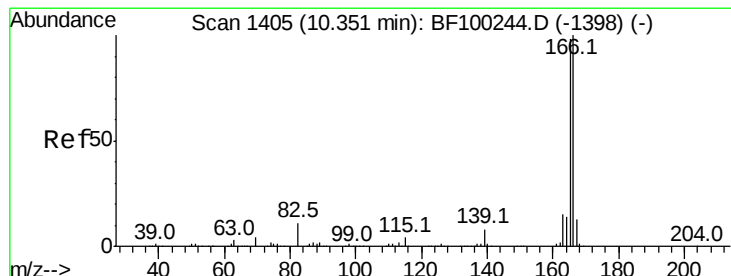
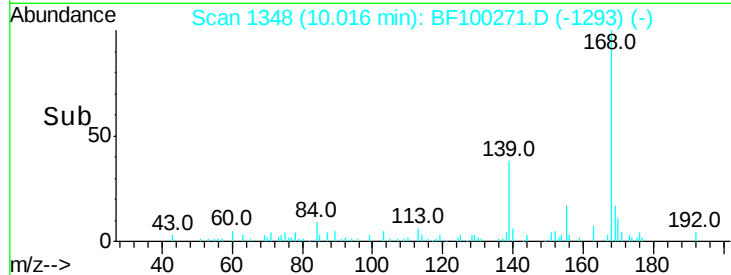
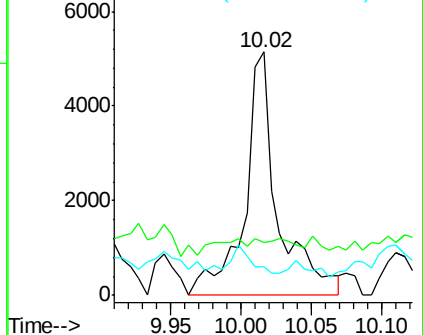
#55  
4-Nitrophenol  
Concen: 4.380 ng  
RT: 10.02 min Scan# 1348  
Delta R.T. 0.02 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:139 Resp: 8417  
Ion Ratio Lower Upper  
139 100  
109 21.6 48.4 88.4#  
65 11.7 72.6 112.6#

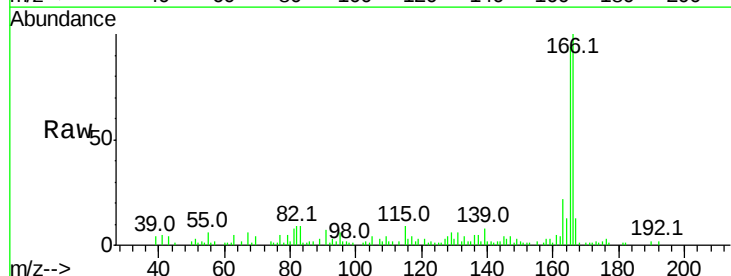


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF1

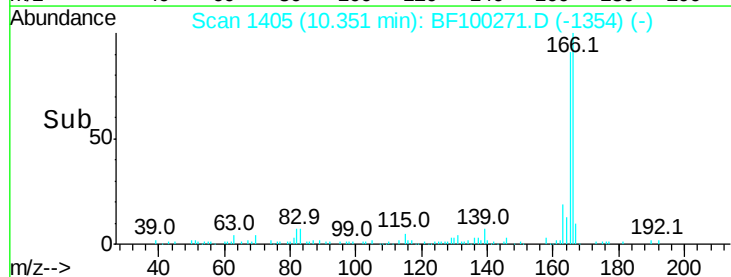
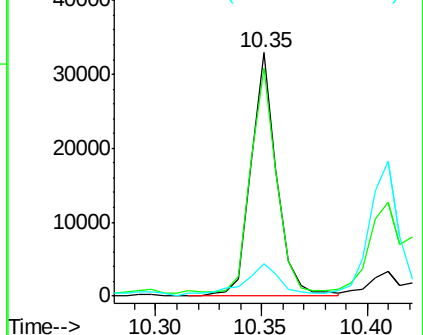


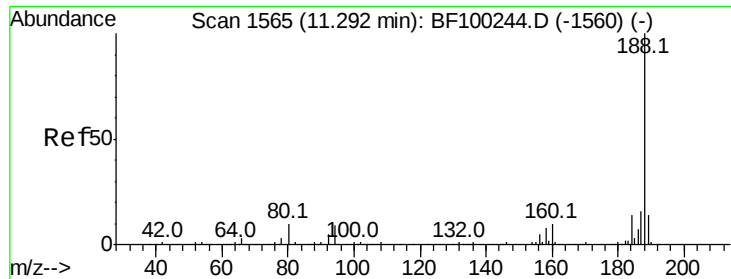
#57  
Fluorene  
Concen: 2.066 ng  
RT: 10.35 min Scan# 1405  
Delta R.T. -0.00 min  
Lab File: BF100271.D  
Acq: 7 Nov 2017 3:41

Tgt Ion:166 Resp: 27994  
Ion Ratio Lower Upper  
166 100  
165 93.6 79.8 119.8  
167 13.2 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

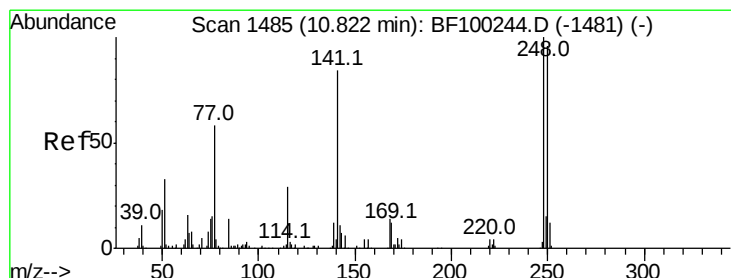
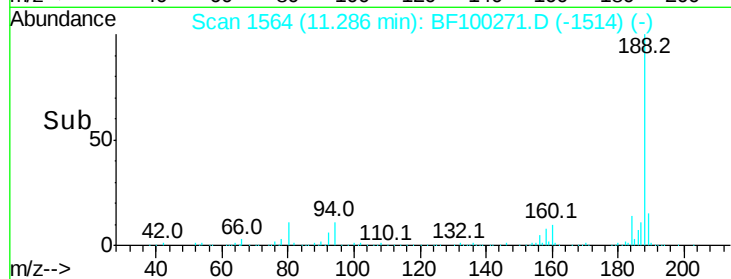
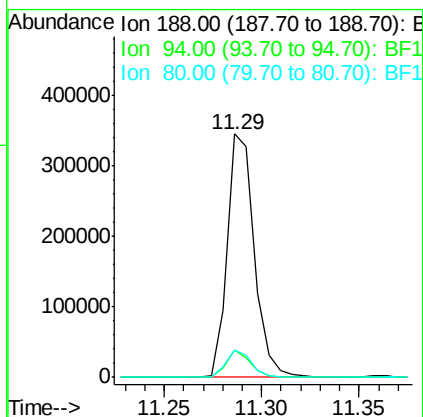
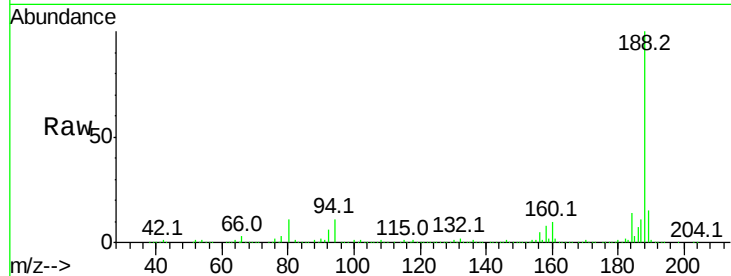




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.29 min Scan# 1564  
 Delta R.T. -0.01 min  
 Lab File: BF100271.D  
 Acq: 7 Nov 2017 3:41

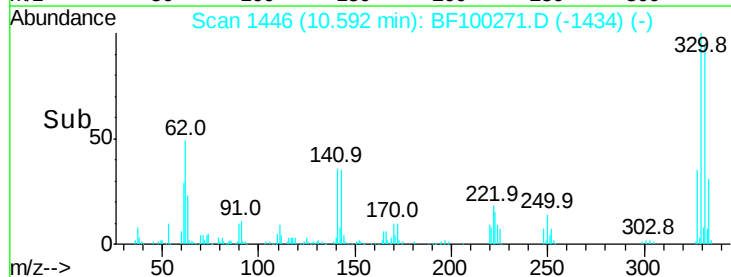
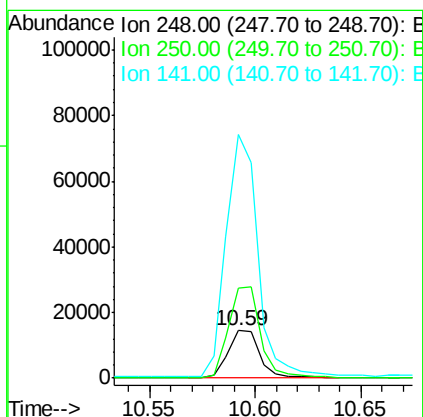
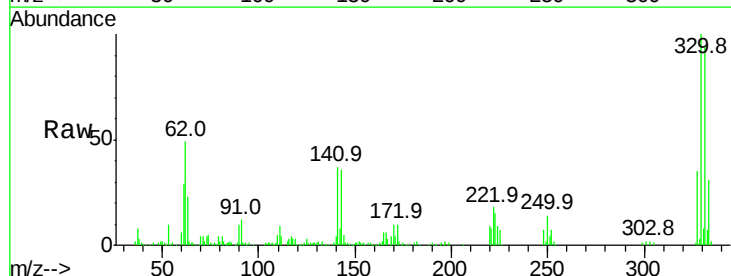
Instrument :  
 BNA\_F  
 ClientSampleId :

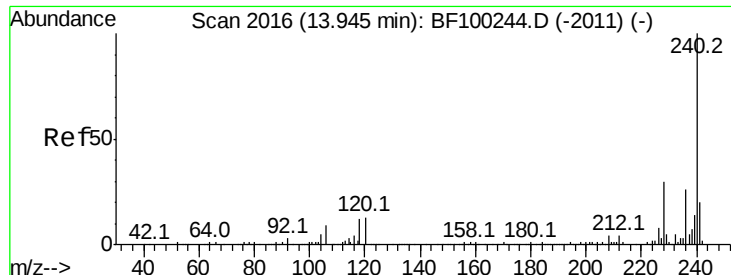
Tot Ion:188 Resp: 331494  
 Ion Ratio Lower Upper  
 188 100  
 94 11.2 8.5 12.7  
 80 11.4 9.2 13.8



#66  
 4-Bromophenyl-phenylether  
 Concen: 4.276 ng  
 RT: 10.59 min Scan# 1446  
 Delta R.T. -0.23 min  
 Lab File: BF100271.D  
 Acq: 7 Nov 2017 3:41

Tgt Ion:248 Resp: 14922  
 Ion Ratio Lower Upper  
 248 100  
 250 190.7 76.9 115.3#  
 141 515.0 74.4 111.6#

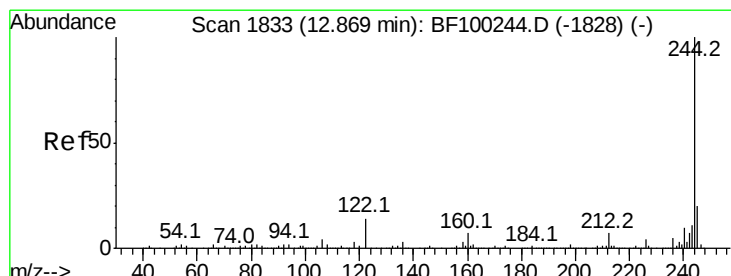
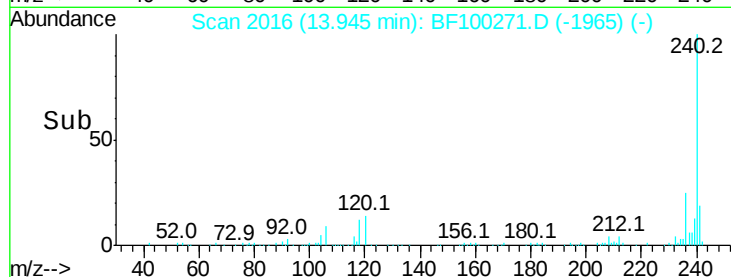
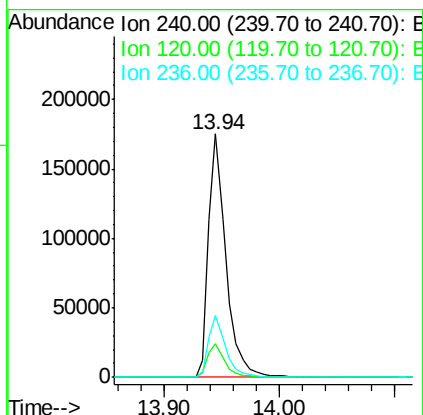
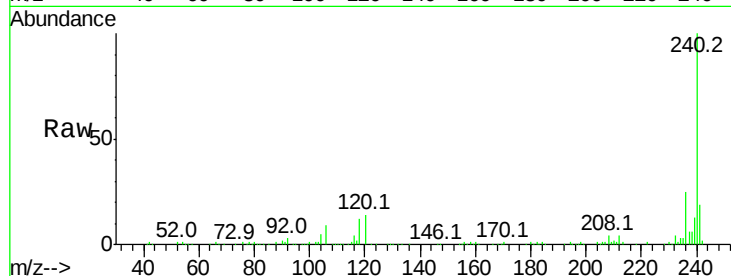




#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.94 min Scan# 2016  
 Delta R.T. -0.00 min  
 Lab File: BF100271.D  
 Acq: 7 Nov 2017 3:41

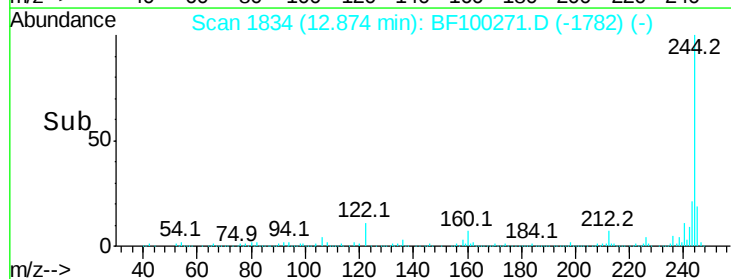
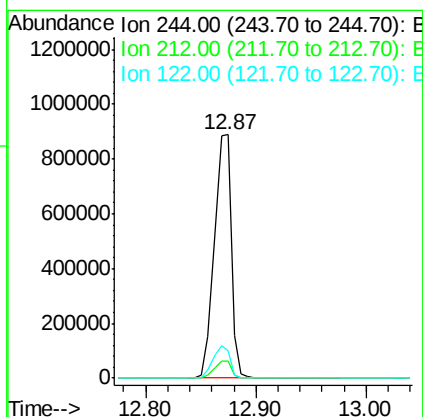
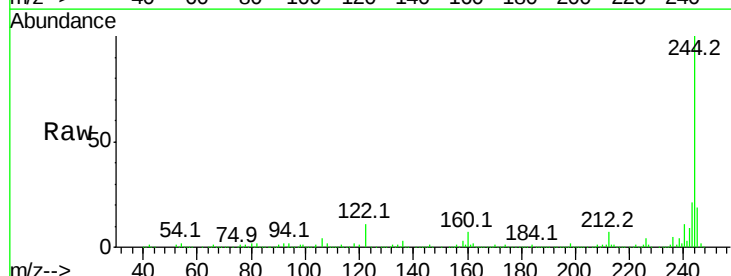
Instrument :  
 BNA\_F  
 ClientSampleId :

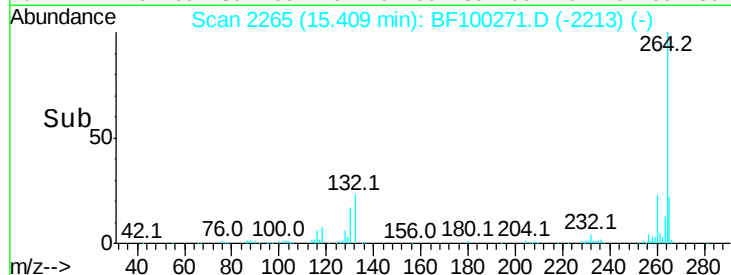
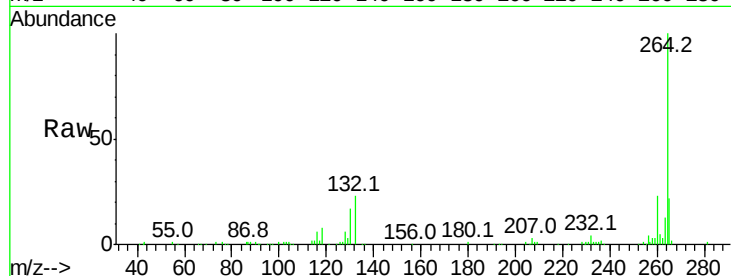
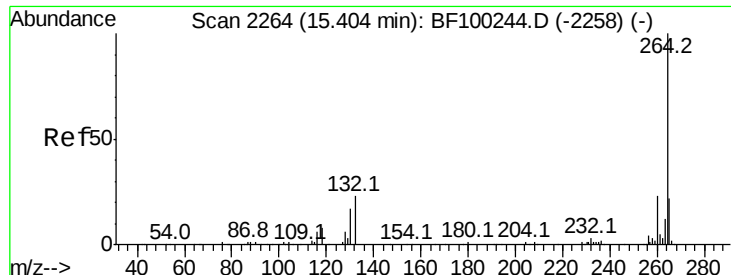
Tot Ion:240 Resp: 184285  
 Ion Ratio Lower Upper  
 240 100  
 120 13.6 9.5 14.3  
 236 25.2 20.7 31.1



#78  
 Terphenyl-d14  
 Concen: 112.027 ng  
 RT: 12.87 min Scan# 1834  
 Delta R.T. 0.01 min  
 Lab File: BF100271.D  
 Acq: 7 Nov 2017 3:41

Tgt Ion:244 Resp: 944682  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.4 8.0  
 122 11.3 11.0 16.4





#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.41 min Scan# 2265  
 Delta R.T. 0.01 min  
 Lab File: BF100271.D  
 Acq: 7 Nov 2017 3:41

Instrument :  
 BNA\_F  
 ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 166062 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.3  | 19.2  | 28.8   |
| 265       | 21.7  | 17.5  | 26.3   |

