

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091319\  
 Data File : BF117036.D  
 Acq On : 13 Sep 2019 21:32  
 Operator : HP/JU  
 Sample : K4848-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 14 00:19:38 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 13 16:23:17 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.82  | 152  | 70836    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.10  | 136  | 282764   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.85  | 164  | 149943   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.33 | 188  | 247917   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.96 | 240  | 189730   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.41 | 264  | 165451   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.44  | 112  | 255671   | 56.35  | ng    | 0.00     |
| 7) Phenol-d6                | 6.45  | 99   | 225837   | 38.51  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.38  | 82   | 510342   | 94.83  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.64 | 330  | 183892   | 146.74 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.17  | 172  | 913229   | 95.23  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.92 | 244  | 922934   | 90.93  | ng    | 0.00     |

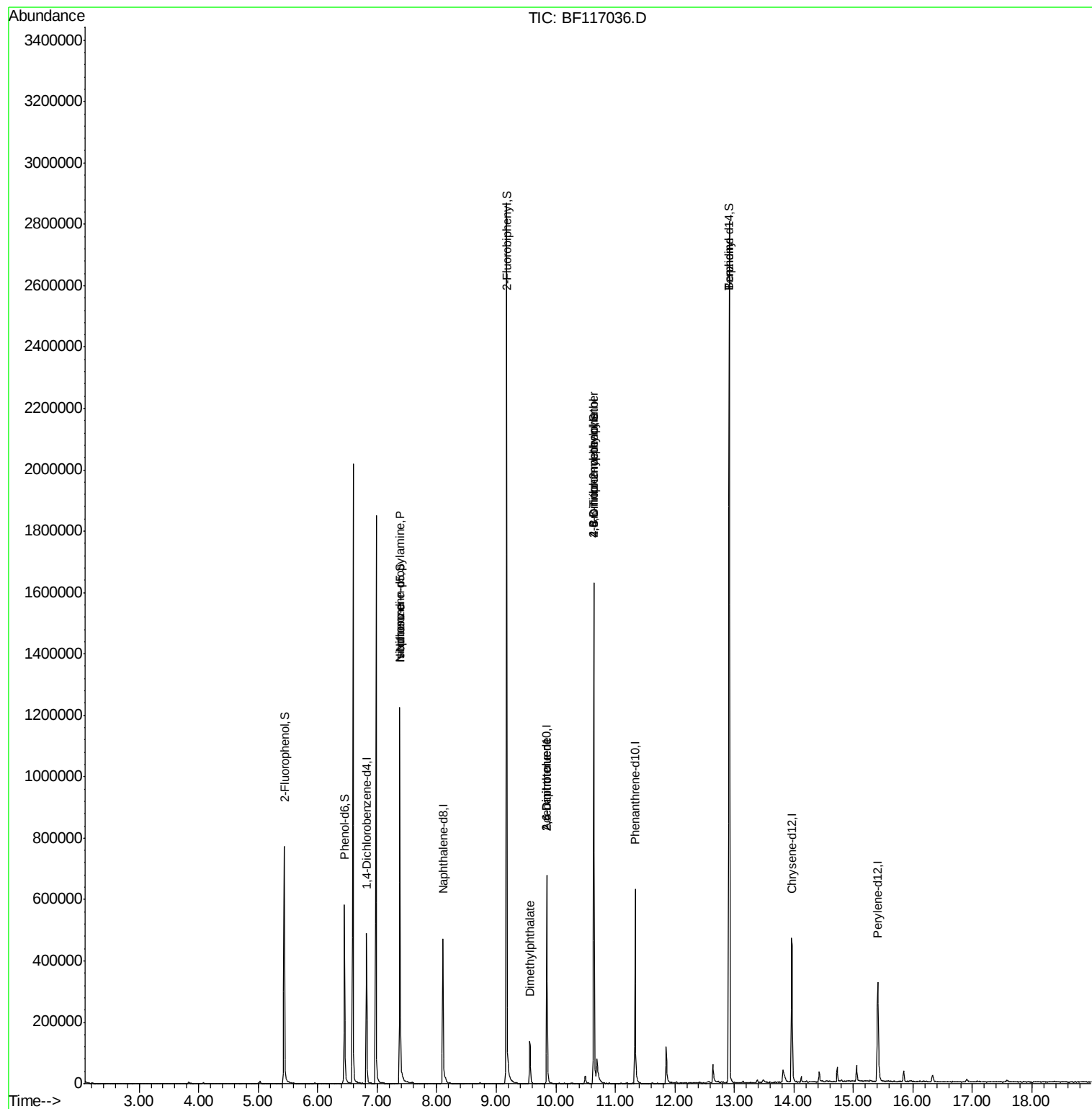
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.59  | 77   | 12159    | Below Cal |       | # 78   |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70   | 65764    | 18.419    | ng    | # 81   |
| 25) Isophorone                 | 7.38  | 82   | 510337   | 53.558    | ng    | # 66   |
| 50) Dimethylphthalate          | 9.56  | 163  | 69085    | 6.507     | ng    | # 99   |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165  | 19174    | 8.867     | ng    | # 25   |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165  | 19174    | 6.831     | ng    | # 19   |
| 65) 4,6-Dinitro-2-methylphenol | 10.64 | 198  | 367      | 7.180     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248  | 11996    | 4.738     | ng    | # 1    |
| 77) Benzidine                  | 12.92 | 184  | 13018    | 2.130     | ng    | # 96   |

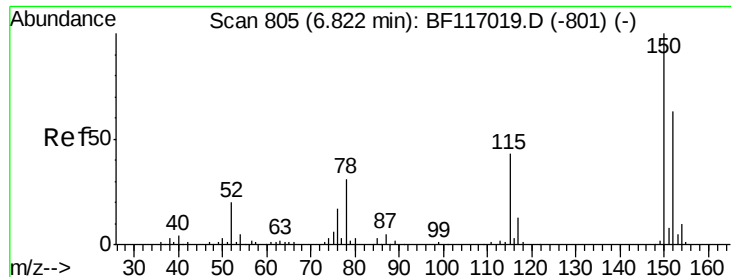
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
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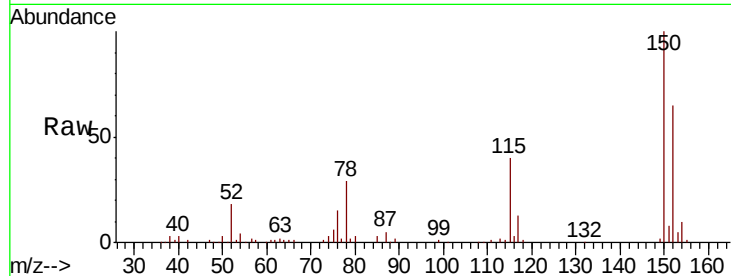


#1

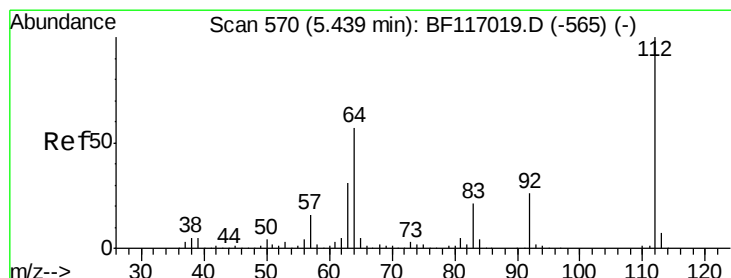
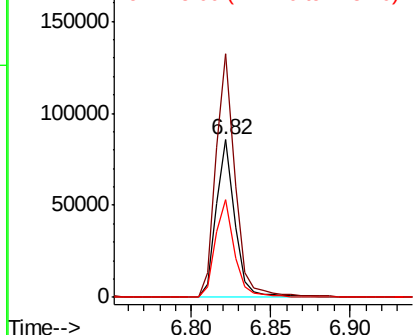
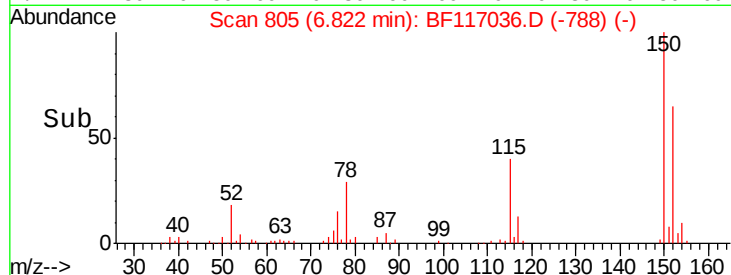
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: BF117036.D  
Acq: 13 Sep 2019 21:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 70836  
Ion Ratio Lower Upper  
152 100  
150 154.4 127.5 191.3  
115 61.7 55.0 82.4



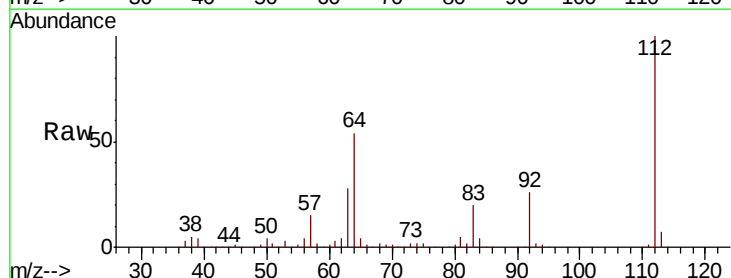
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



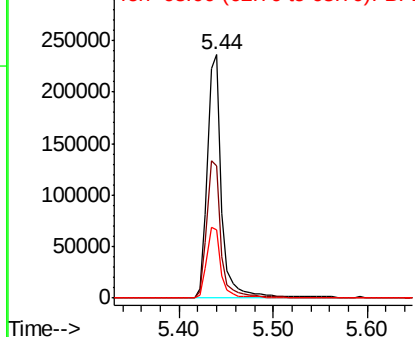
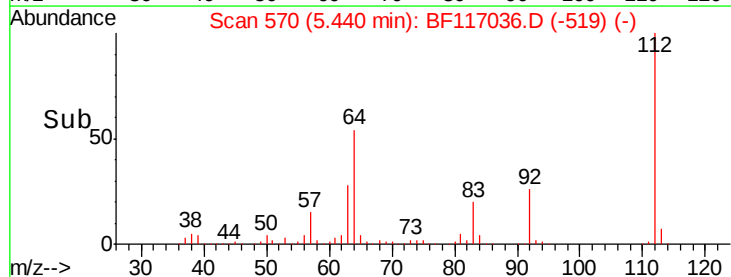
#5

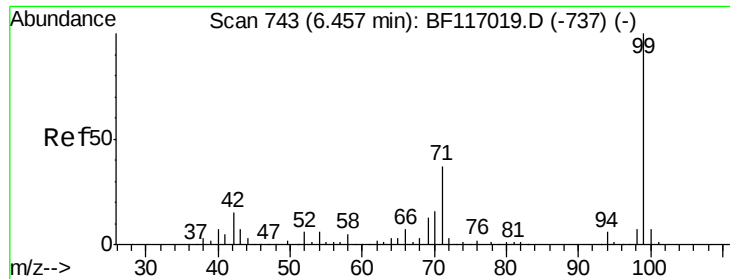
2-Fluorophenol  
Concen: 56.351 ng  
RT: 5.44 min Scan# 570  
Delta R.T. 0.00 min  
Lab File: BF117036.D  
Acq: 13 Sep 2019 21:32

Tgt Ion:112 Resp: 255671  
Ion Ratio Lower Upper  
112 100  
64 54.3 45.7 68.5  
63 28.3 24.9 37.3



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: 38.515 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117036.D

Acq: 13 Sep 2019 21:32

Instrument :

BNA\_F

ClientSampleId :

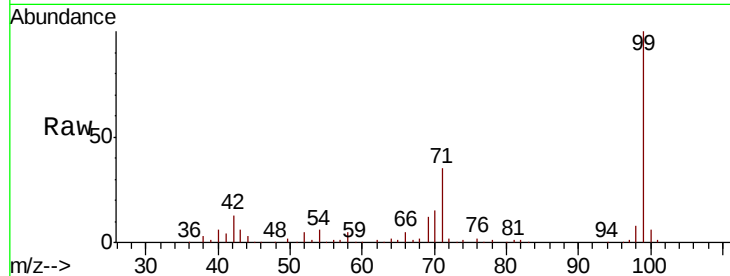
Tot Ion: 99 Resp: 225837

Ion Ratio Lower Upper

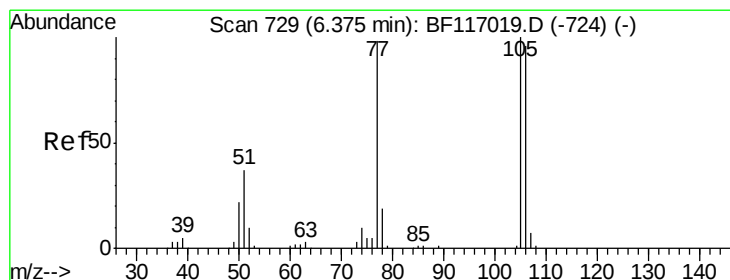
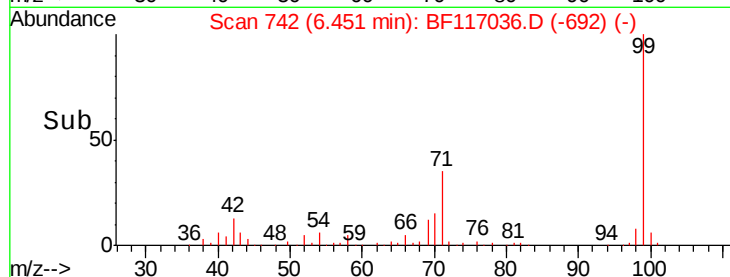
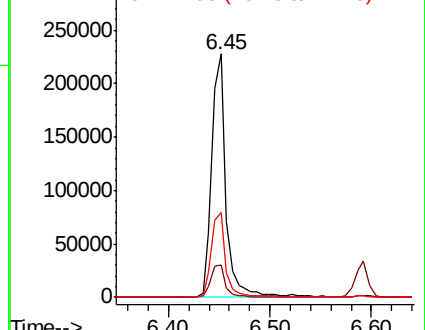
99 100

42 13.2 12.2 18.2

71 34.9 29.8 44.8



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: Below Cal

RT: 6.59 min Scan# 766

Delta R.T. 0.22 min

Lab File: BF117036.D

Acq: 13 Sep 2019 21:32

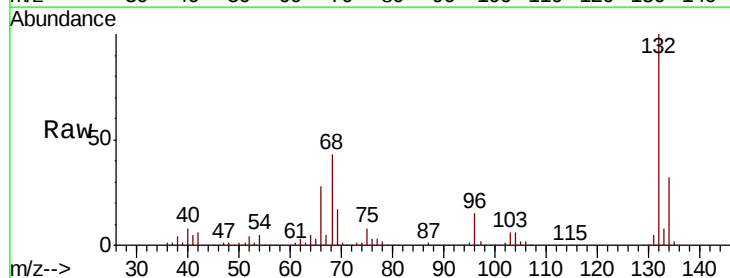
Tgt Ion: 77 Resp: 12159

Ion Ratio Lower Upper

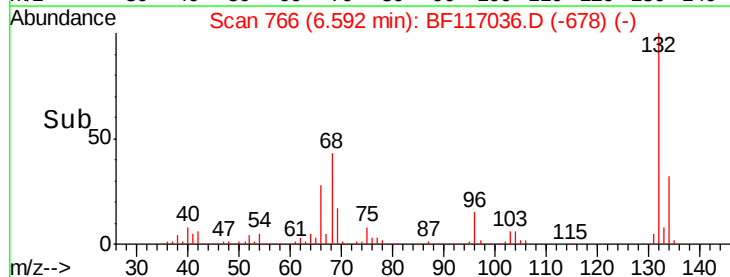
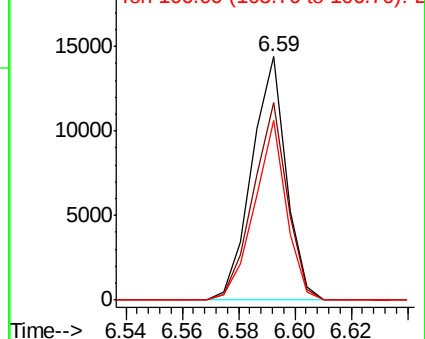
77 100

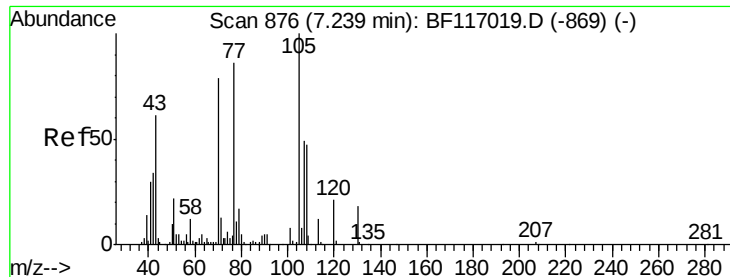
105 81.2 81.8 121.8#

106 74.0 77.3 117.3#



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

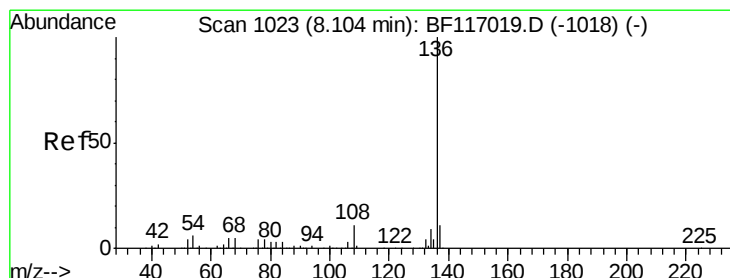
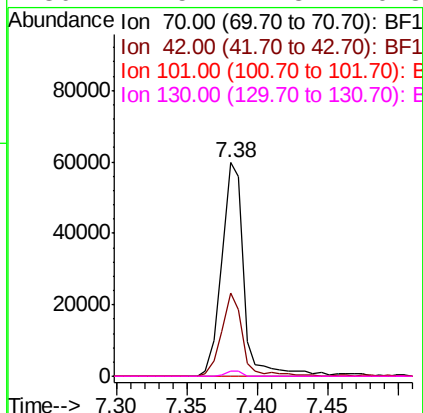
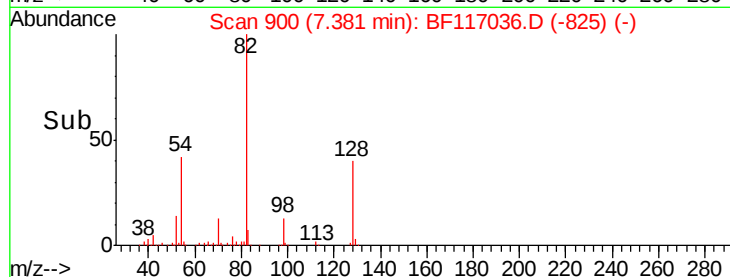
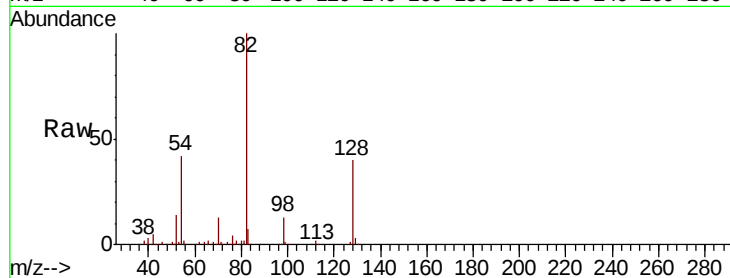




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.419 ng  
RT: 7.38 min Scan# 900  
Delta R.T. 0.14 min  
Lab File: BF117036.D  
Acq: 13 Sep 2019 21:32

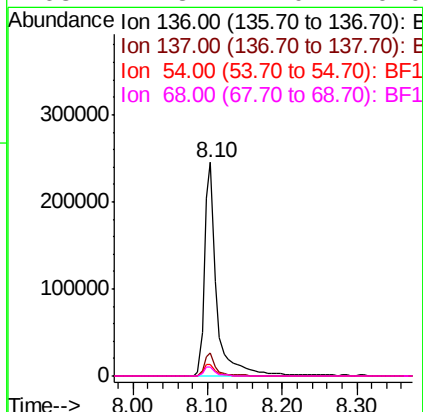
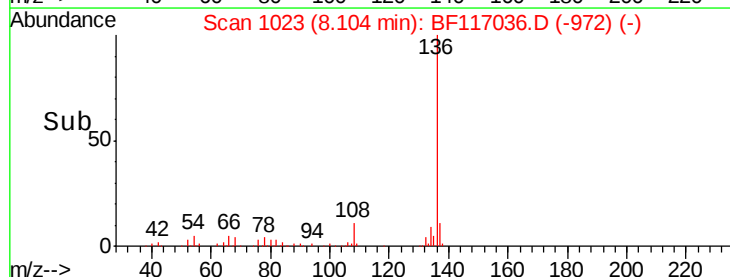
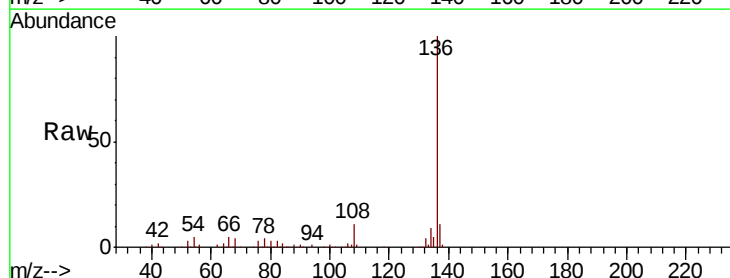
Instrument :  
BNA\_F  
ClientSampleId :

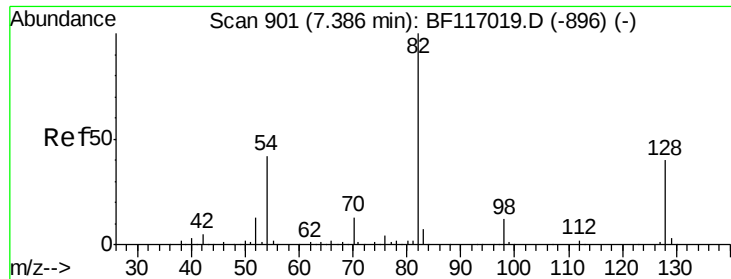
Tot Ion: 70 Resp: 65764  
Ion Ratio Lower Upper  
70 100  
42 39.1 34.0 51.0  
101 0.0 7.8 11.6#  
130 2.5 17.8 26.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1023  
Delta R.T. 0.00 min  
Lab File: BF117036.D  
Acq: 13 Sep 2019 21:32

Tgt Ion: 136 Resp: 282764  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.0 13.4  
54 5.2 4.5 6.7  
68 4.3 4.0 6.0

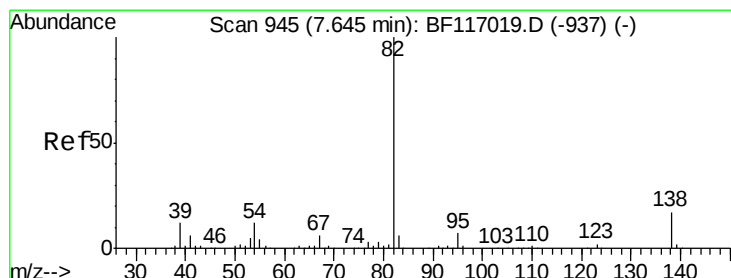
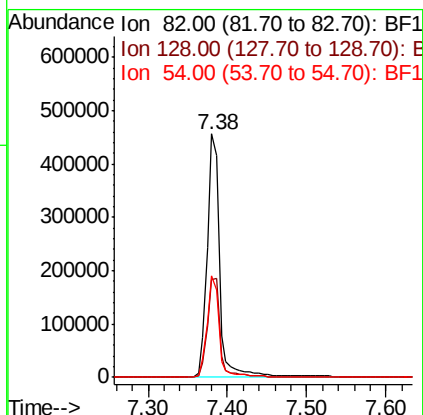
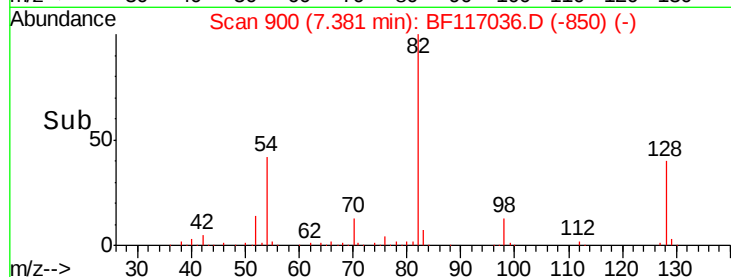
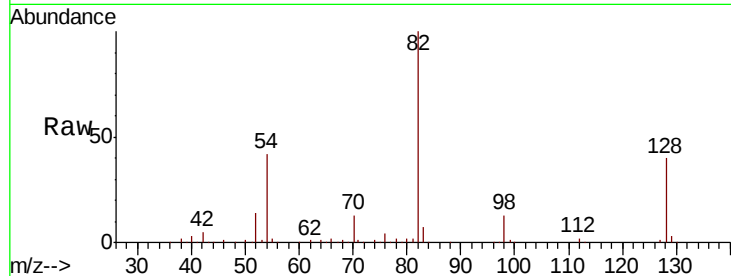




#23  
 Nitrobenzene-d5  
 Concen: 94.830 ng  
 RT: 7.38 min Scan# 900  
 Delta R.T. -0.01 min  
 Lab File: BF117036.D  
 Acq: 13 Sep 2019 21:32

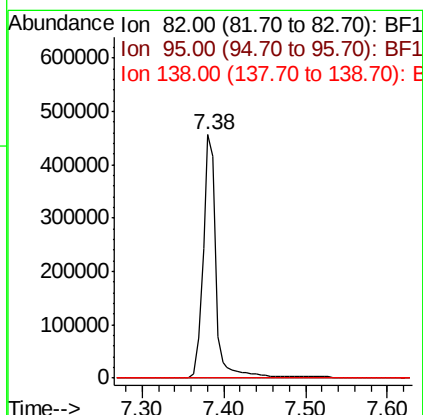
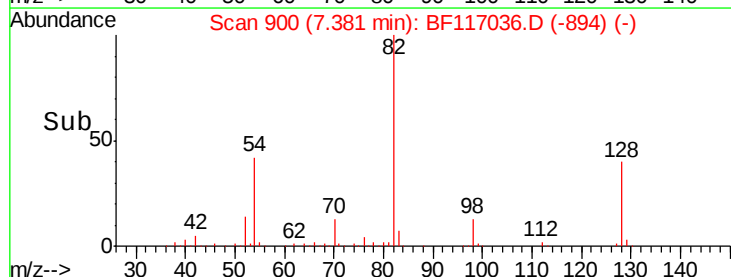
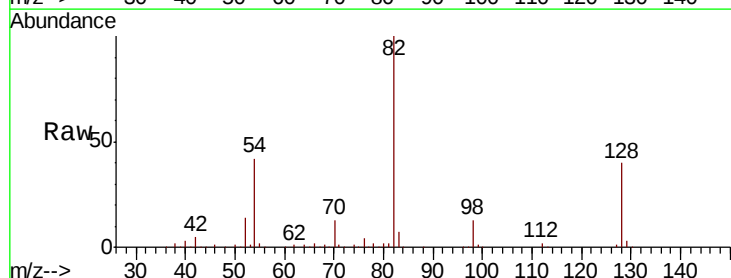
Instrument :  
 BNA\_F  
 ClientSampleId :

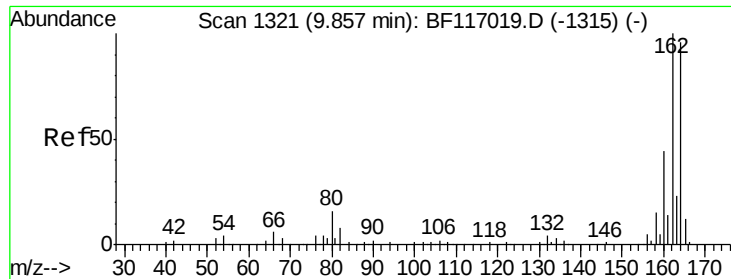
| Tot Ion   | 82    | Resp  | 510342 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 39.9  | 32.3  | 48.5   |
| 54        | 41.9  | 33.3  | 49.9   |



#25  
 Isophorone  
 Concen: 53.558 ng  
 RT: 7.38 min Scan# 900  
 Delta R.T. -0.26 min  
 Lab File: BF117036.D  
 Acq: 13 Sep 2019 21:32

| Tgt Ion   | 82    | Resp  | 510337 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.8   | 8.6#   |
| 138       | 0.0   | 13.5  | 20.3#  |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF117036.D

Acq: 13 Sep 2019 21:32

Instrument :

BNA\_F

ClientSampleId :

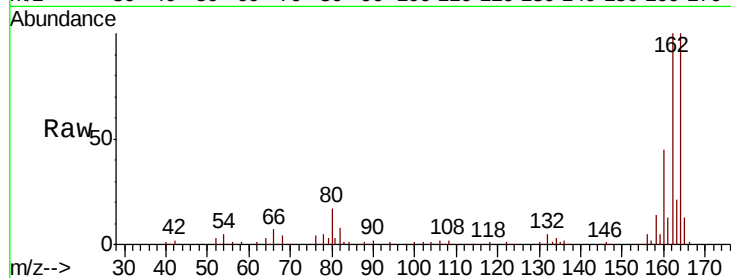
Tot Ion:164 Resp: 149943

Ion Ratio Lower Upper

164 100

162 99.8 83.4 125.2

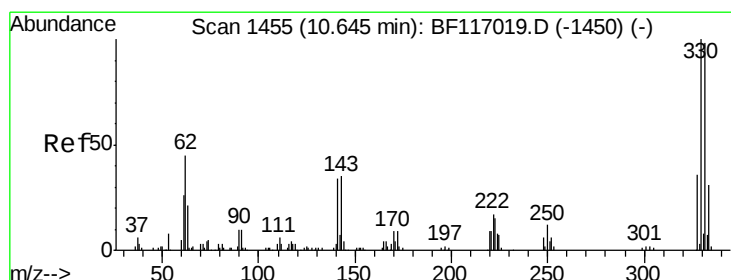
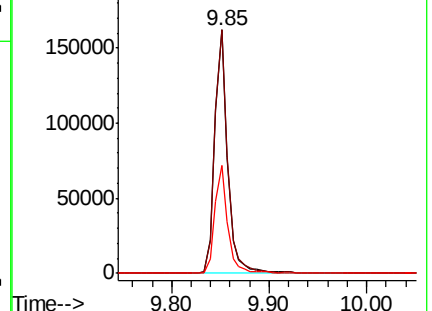
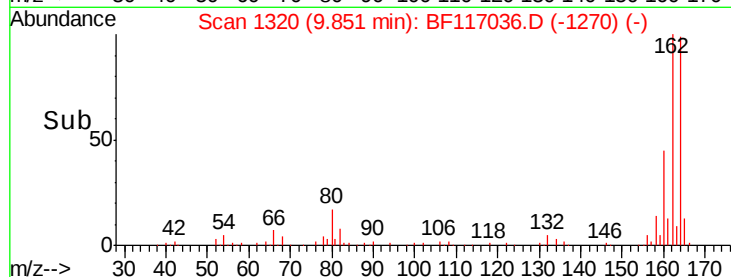
160 44.5 36.4 54.6



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



#42

2,4,6-Tribromophenol

Concen: 146.740 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF117036.D

Acq: 13 Sep 2019 21:32

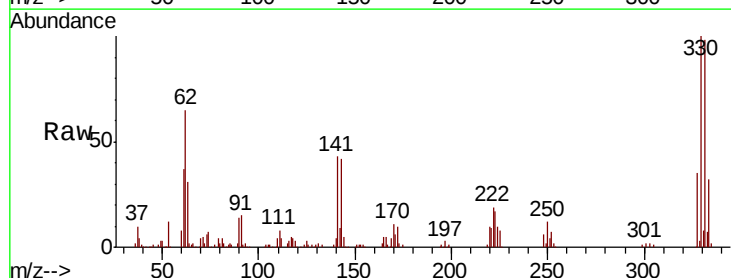
Tgt Ion:330 Resp: 183892

Ion Ratio Lower Upper

330 100

332 98.2 78.0 117.0

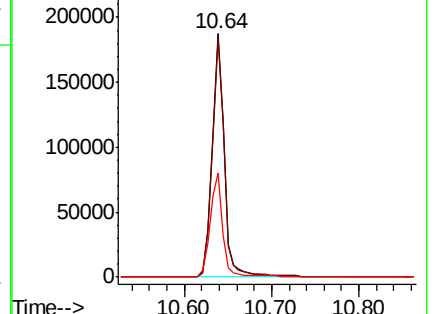
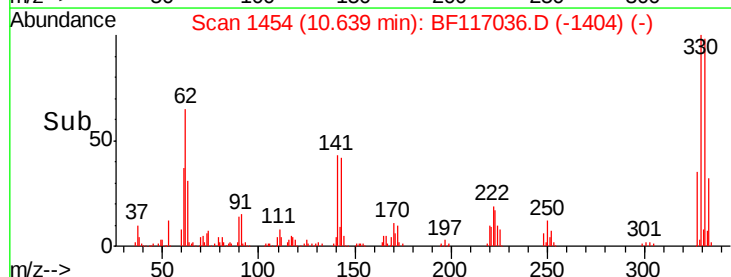
141 44.2 35.8 53.6

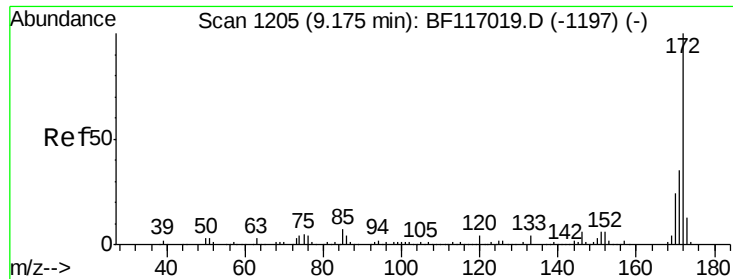


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

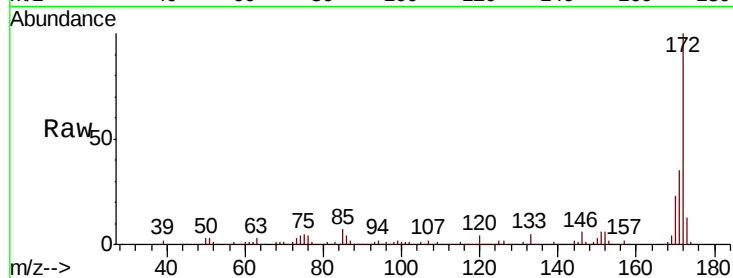




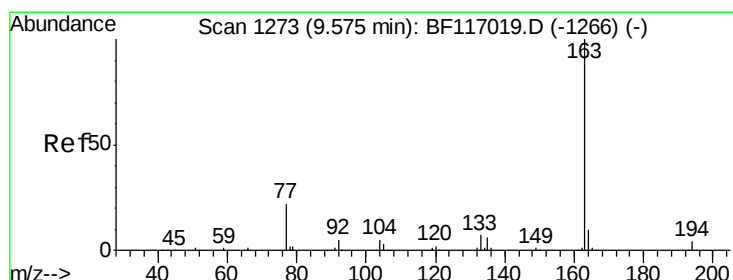
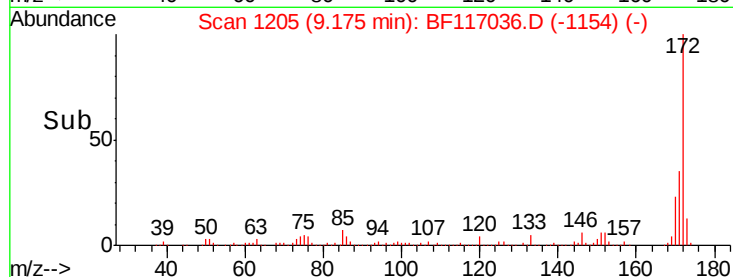
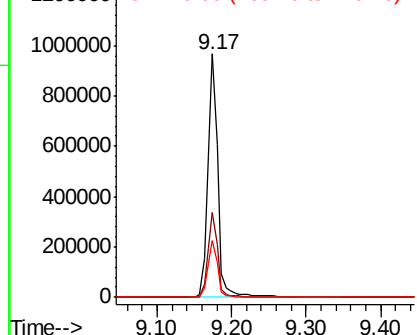
#45  
2-Fluorobiphenyl  
Concen: 95.230 ng  
RT: 9.17 min Scan# 1205  
Delta R.T. 0.00 min  
Lab File: BF117036.D  
Acq: 13 Sep 2019 21:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 913229  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.2 42.2  
170 23.5 18.9 28.3

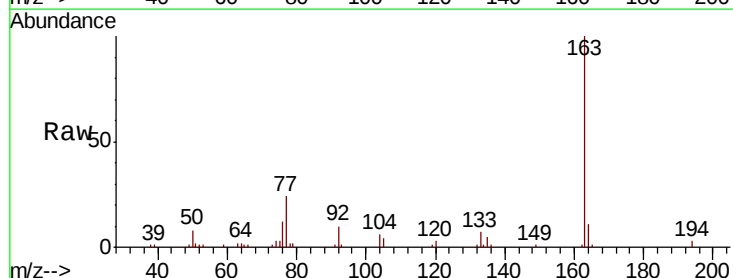


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

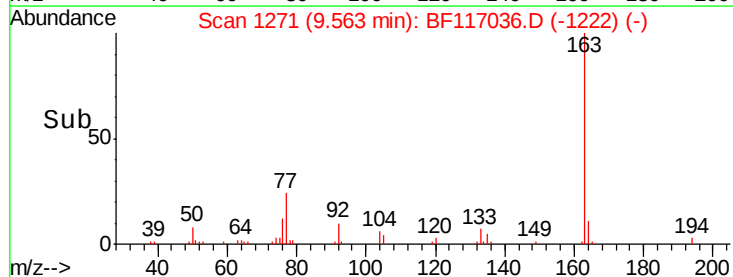
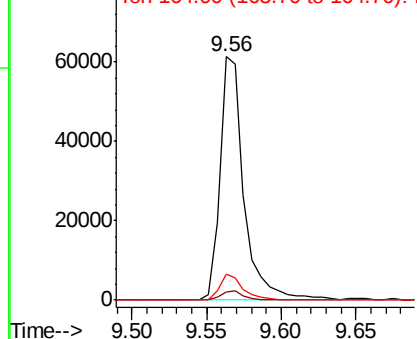


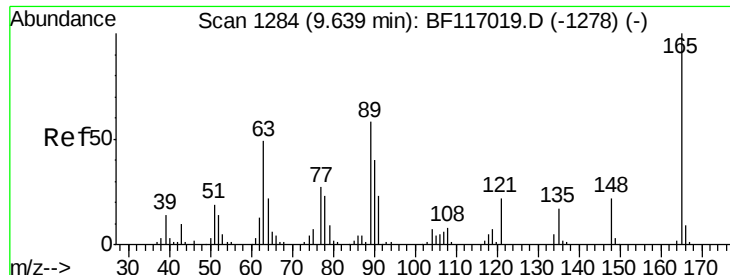
#50  
Dimethylphthalate  
Concen: 6.507 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.01 min  
Lab File: BF117036.D  
Acq: 13 Sep 2019 21:32

Tgt Ion:163 Resp: 69085  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.9 4.3  
164 10.6 8.2 12.4



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

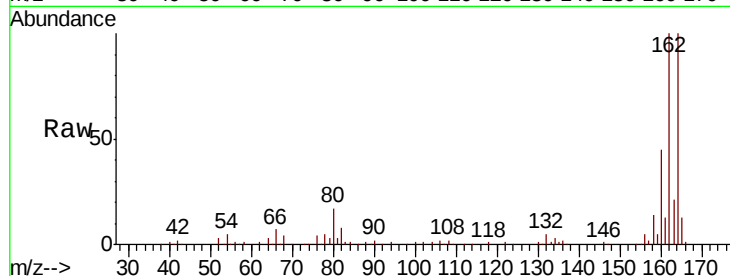




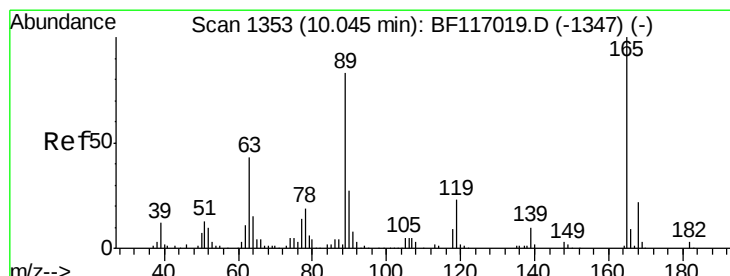
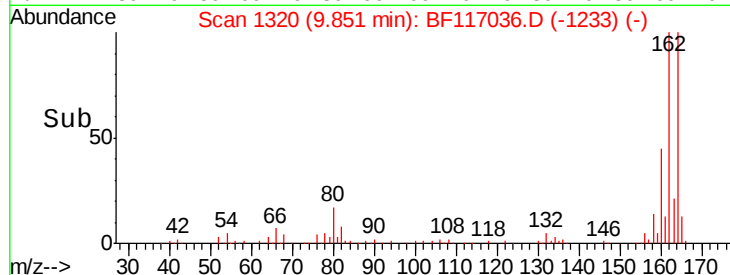
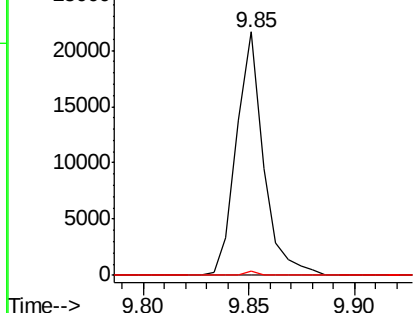
#51  
 2,6-Dinitrotoluene  
 Concen: 8.867 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. 0.21 min  
 Lab File: BF117036.D  
 Acq: 13 Sep 2019 21:32

Instrument :  
 BNA\_F  
 ClientSampled :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 165   | Resp: | 19174 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 41.8  | 62.8# |
| 89        | 1.9   | 46.5  | 69.7# |

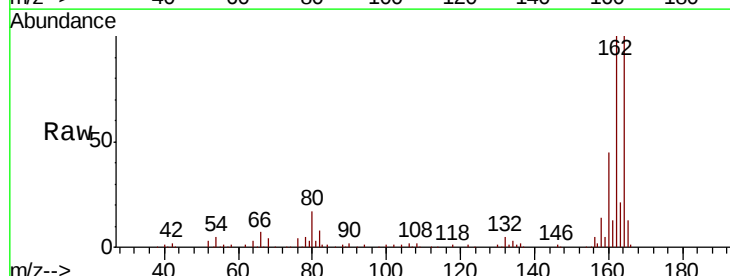


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

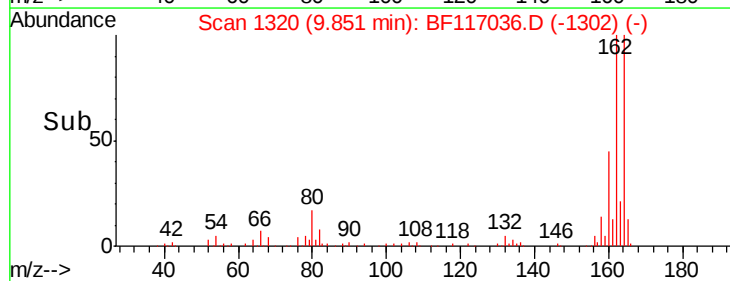
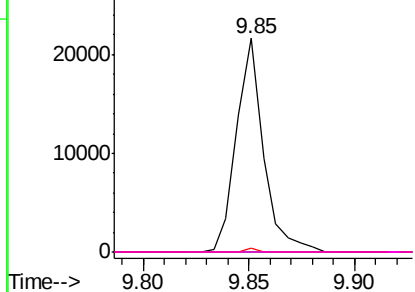


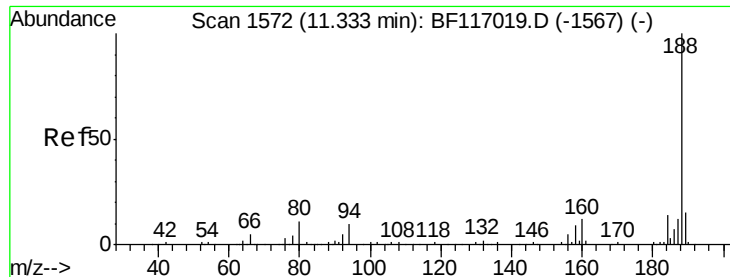
#57  
 2,4-Dinitrotoluene  
 Concen: 6.831 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. -0.19 min  
 Lab File: BF117036.D  
 Acq: 13 Sep 2019 21:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 19174 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 35.0  | 52.4# |
| 89        | 1.9   | 66.1  | 99.1# |
| 182       | 0.0   | 2.0   | 3.0#  |



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  
 Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. 0.00 min

Lab File: BF117036.D

Acq: 13 Sep 2019 21:32

Instrument :

BNA\_F

ClientSampleId :

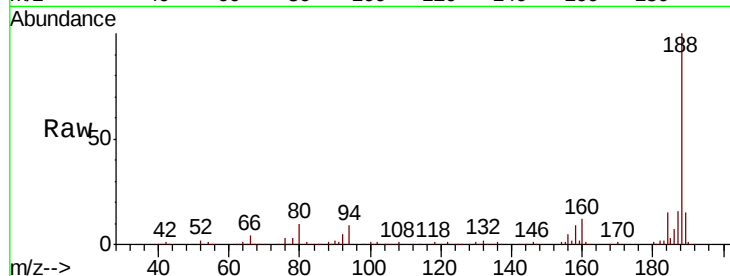
Tot Ion:188 Resp: 247917

Ion Ratio Lower Upper

188 100

94 9.4 8.2 12.2

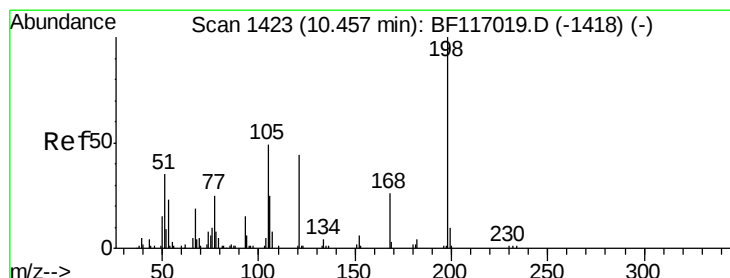
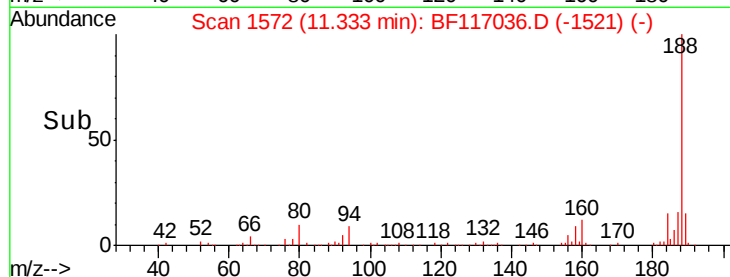
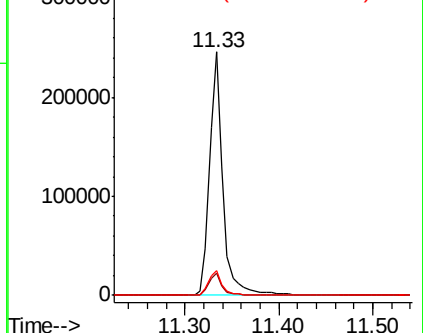
80 10.1 9.0 13.6



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



#65

4,6-Dinitro-2-methylphenol

Concen: 7.180 ng

RT: 10.64 min Scan# 1454

Delta R.T. 0.18 min

Lab File: BF117036.D

Acq: 13 Sep 2019 21:32

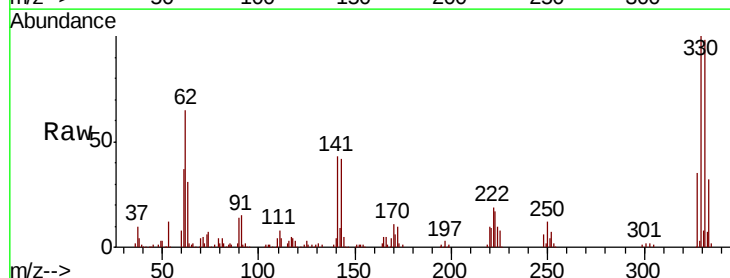
Tgt Ion:198 Resp: 367

Ion Ratio Lower Upper

198 100

51 99.8 18.7 58.7#

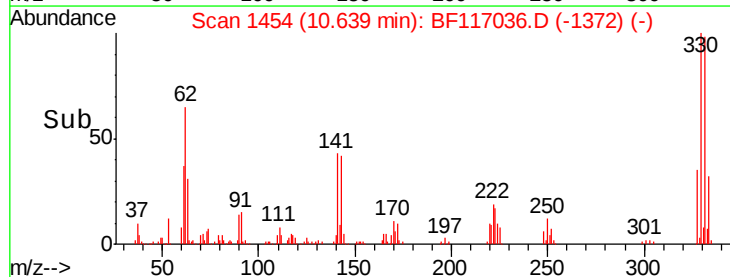
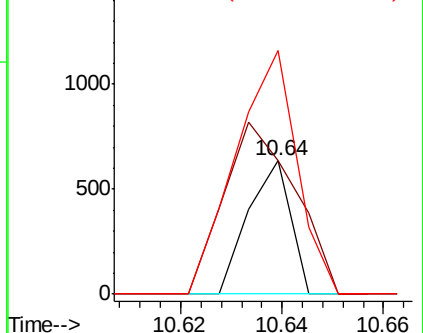
105 182.7 30.2 70.2#

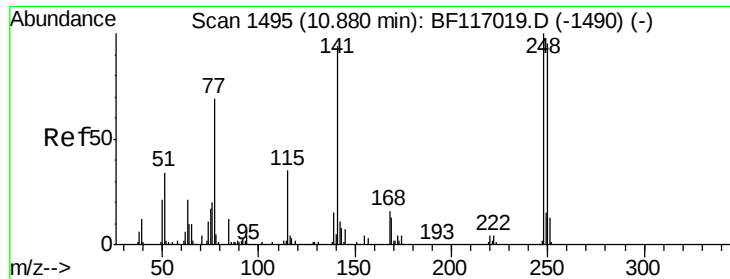


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

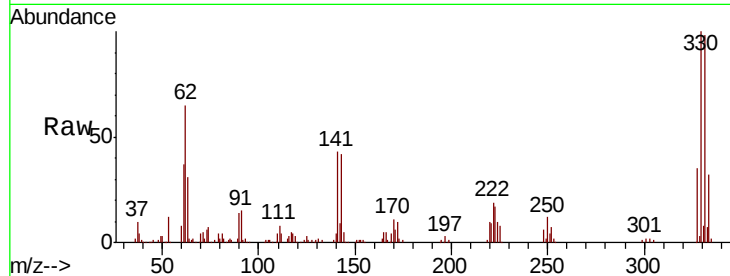




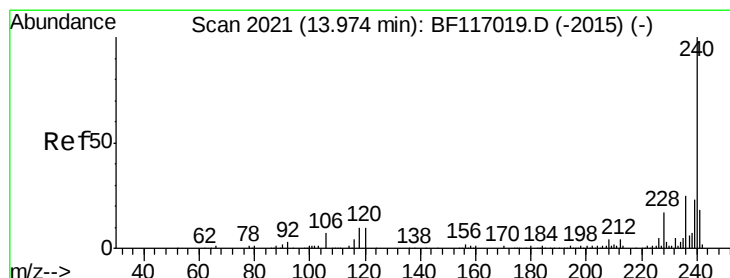
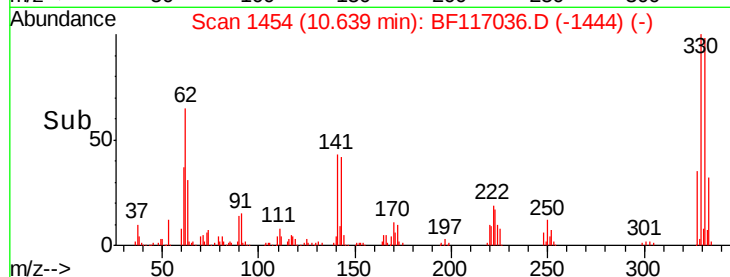
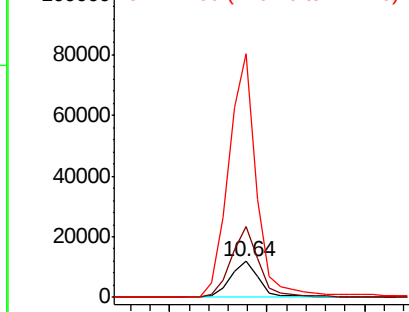
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.738 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.24 min  
 Lab File: BF117036.D  
 Acq: 13 Sep 2019 21:32

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 11996  
 Ion Ratio Lower Upper  
 248 100  
 250 196.2 76.2 114.4#  
 141 673.4 75.0 112.4#

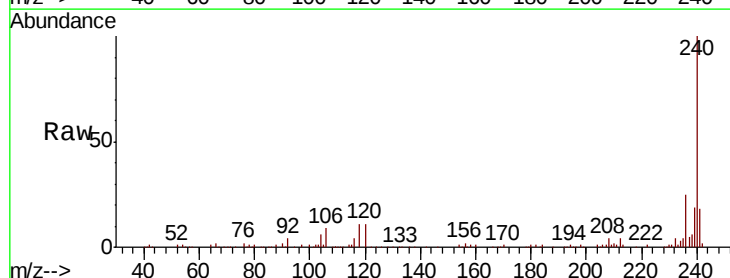


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

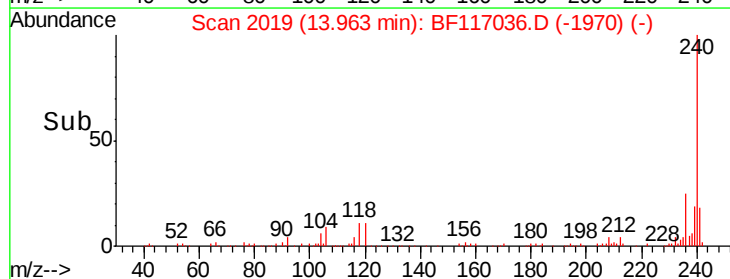
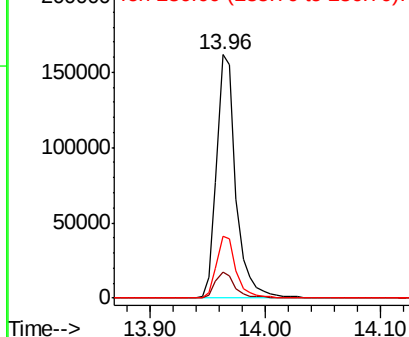


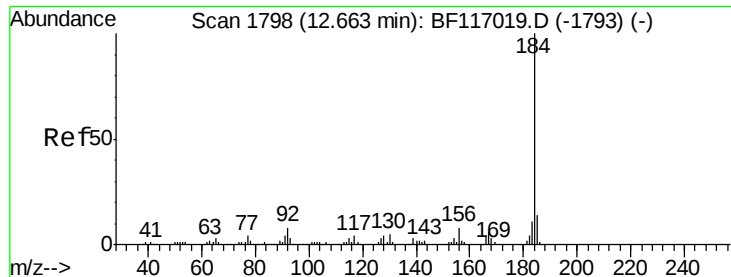
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.96 min Scan# 2019  
 Delta R.T. -0.01 min  
 Lab File: BF117036.D  
 Acq: 13 Sep 2019 21:32

Tgt Ion:240 Resp: 189730  
 Ion Ratio Lower Upper  
 240 100  
 120 10.6 8.3 12.5  
 236 25.4 20.3 30.5



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

Benzidine

Concen: 2.130 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.25 min

Lab File: BF117036.D

Acq: 13 Sep 2019 21:32

Instrument :

BNA\_F

ClientSampleId :

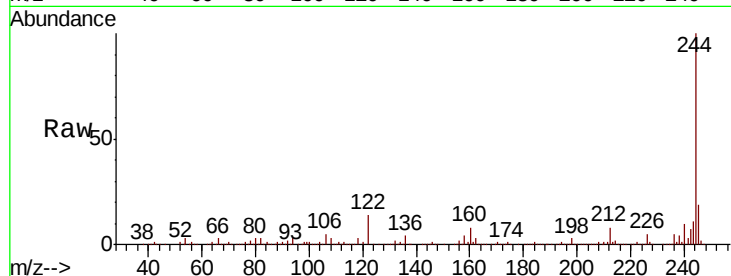
Tot Ion:184 Resp: 13018

Ion Ratio Lower Upper

184 100

185 14.0 11.6 17.4

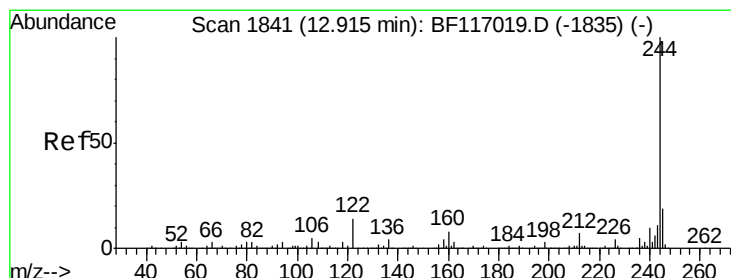
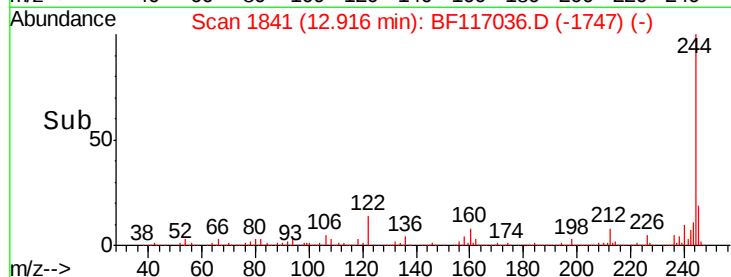
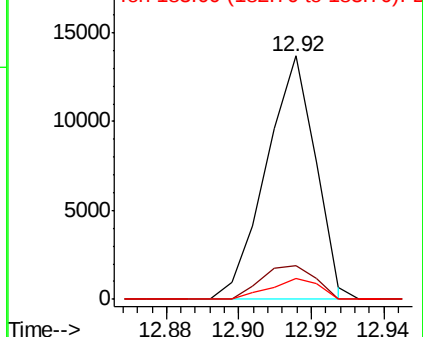
183 8.4 9.0 13.4#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 90.928 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BF117036.D

Acq: 13 Sep 2019 21:32

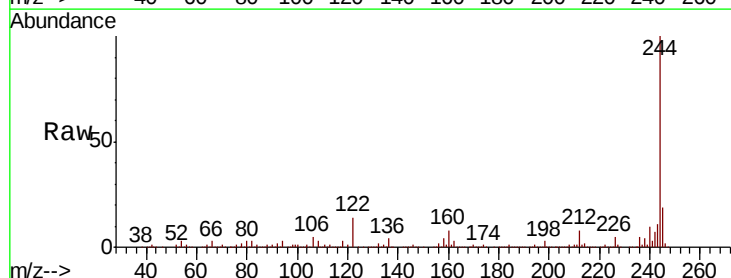
Tgt Ion:244 Resp: 922934

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

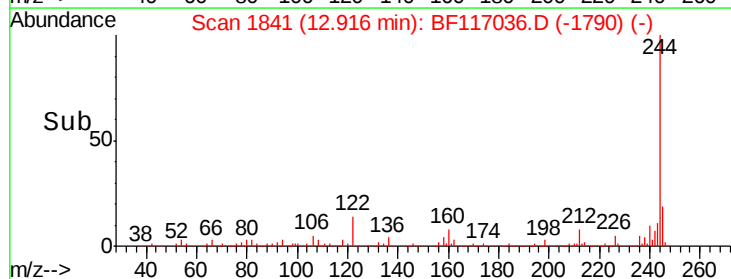
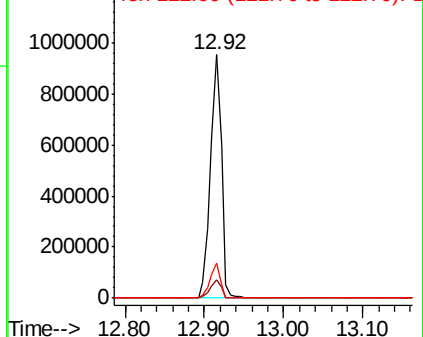
122 14.2 11.3 16.9

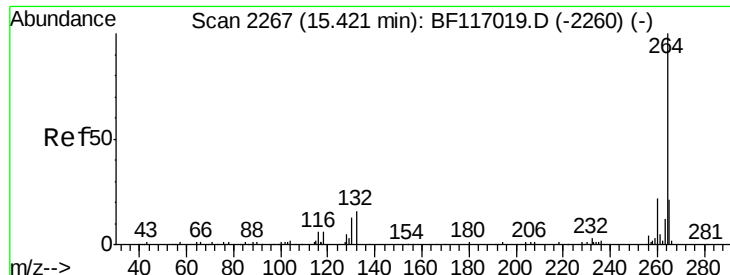


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.41 min Scan# 2265  
Delta R.T. -0.01 min  
Lab File: BF117036.D  
Acq: 13 Sep 2019 21:32

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 17.6  | 26.4  |
| 265     | 21.0  | 16.6  | 24.8  |

