

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091619\  
 Data File : BF117053.D  
 Acq On : 16 Sep 2019 10:48  
 Operator : HP/JU  
 Sample : PB123079BL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 16 14:56:52 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

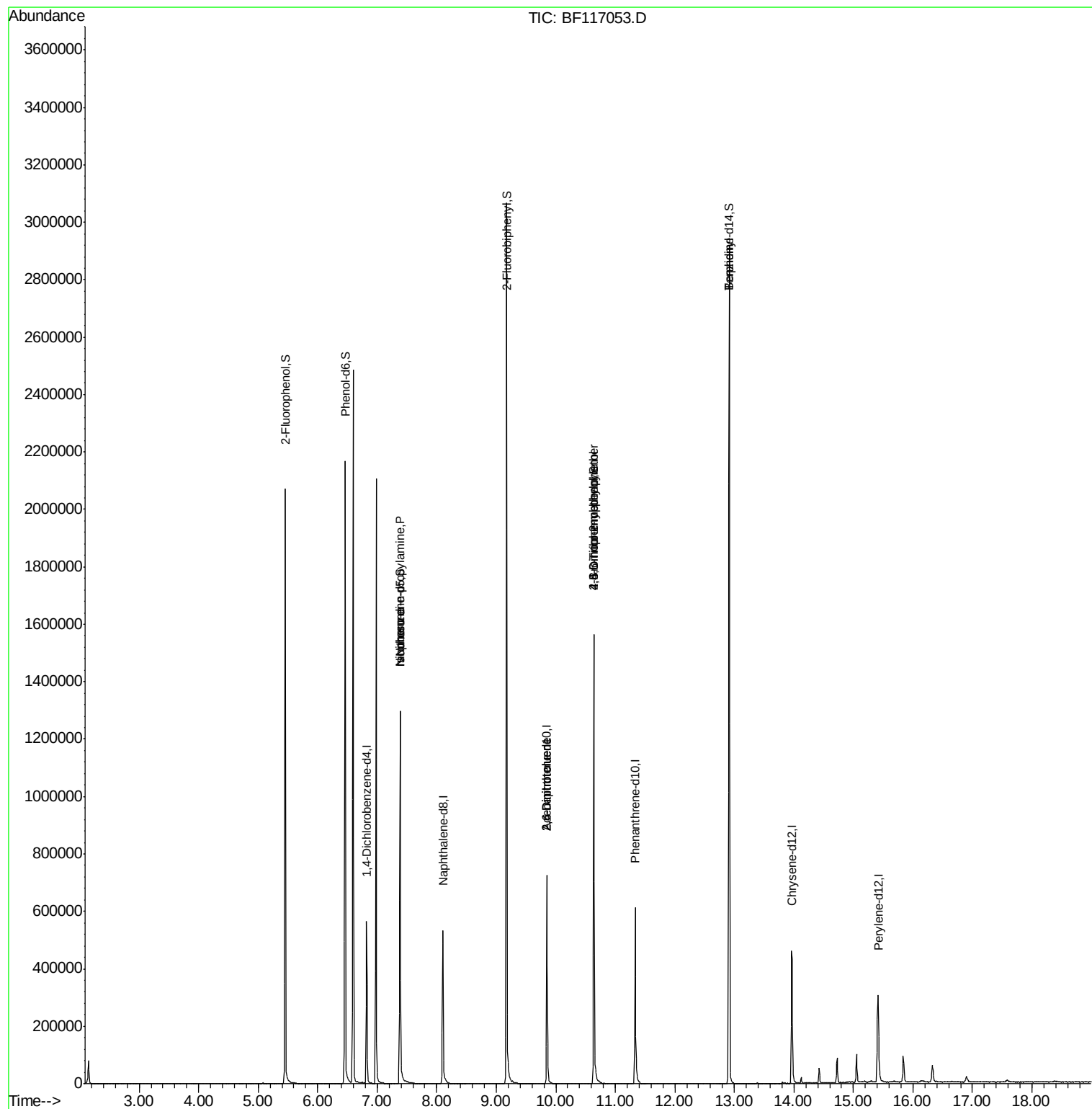
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 82437    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.10  | 136  | 322617   | 20.00     | ng     | 0.00     |
| 39) Acenaphthene-d10           | 9.85  | 164  | 171474   | 20.00     | ng     | 0.00     |
| 64) Phenanthrene-d10           | 11.33 | 188  | 286783   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 13.96 | 240  | 194258   | 20.00     | ng     | -0.01    |
| 87) Perylene-d12               | 15.41 | 264  | 155653   | 20.00     | ng     | -0.01    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 633944   | 120.06    | ng     | 0.02     |
| 7) Phenol-d6                   | 6.46  | 99   | 860759   | 126.14    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 553957   | 90.22     | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.64 | 330  | 188050   | 131.22    | ng     | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.17  | 172  | 982804   | 89.62     | ng     | 0.00     |
| 79) Terphenyl-d14              | 12.92 | 244  | 966075   | 92.96     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.46  | 77   | 1231     | Below Cal | Qvalue | # 1      |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 72876    | 17.538 ng | #      | 78       |
| 25) Isophorone                 | 7.39  | 82   | 544495   | 50.084 ng | #      | 66       |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165  | 21161    | 8.558 ng  | #      | 24       |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165  | 21161    | 6.593 ng  | #      | 18       |
| 65) 4,6-Dinitro-2-methylphenol | 10.64 | 198  | 367      | 7.143 ng  | #      | 1        |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248  | 11635    | 3.973 ng  | #      | 1        |
| 77) Benzidine                  | 12.92 | 184  | 13648    | 2.181 ng  | #      | 94       |

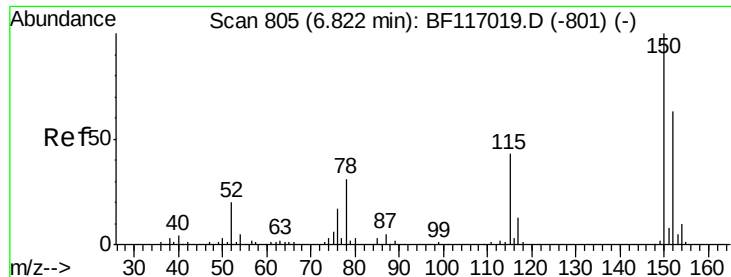
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

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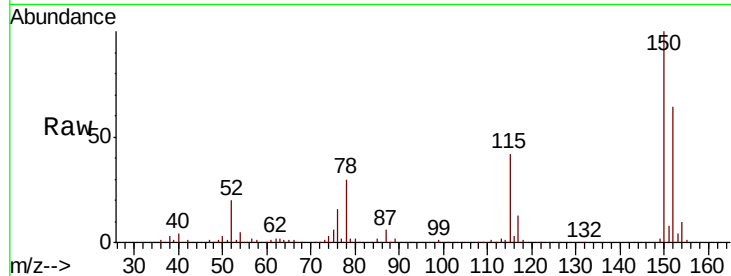


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 805  
Delta R.T. -0.00 min  
Lab File: BF117053.D  
Acq: 16 Sep 2019 10:48

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.0 | 127.5 | 191.3 |
| 115     | 65.6  | 55.0  | 82.4  |

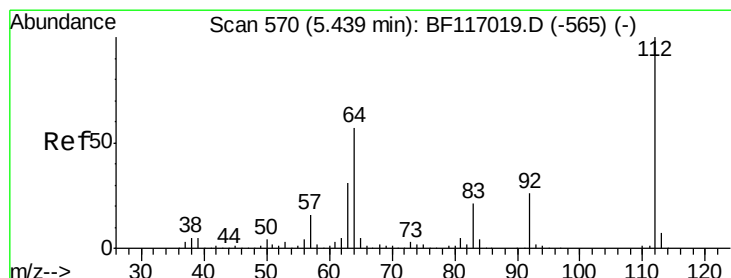
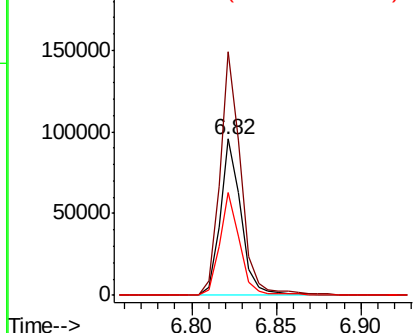
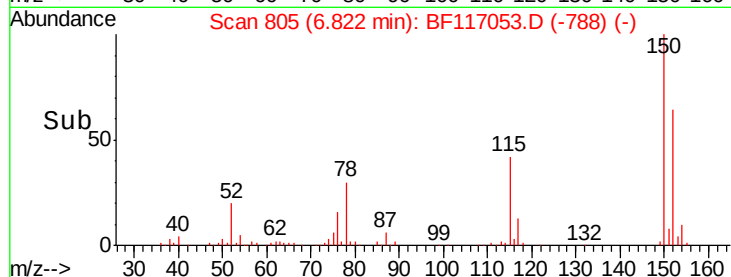


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

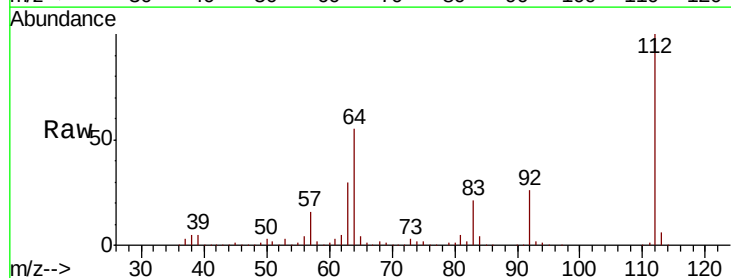
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 120.061 ng  
RT: 5.46 min Scan# 573  
Delta R.T. 0.02 min  
Lab File: BF117053.D  
Acq: 16 Sep 2019 10:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.9  | 45.7  | 68.5  |
| 63      | 29.7  | 24.9  | 37.3  |

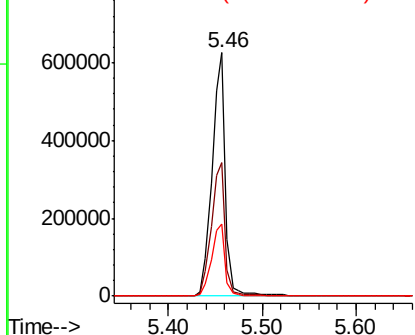
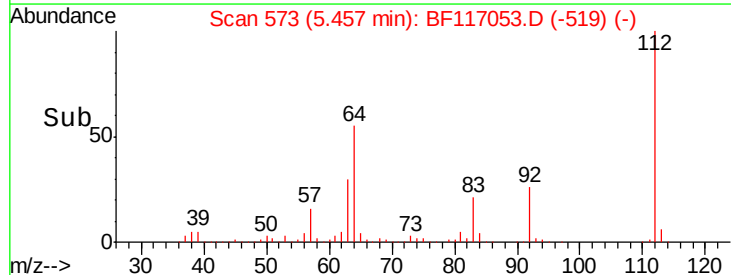


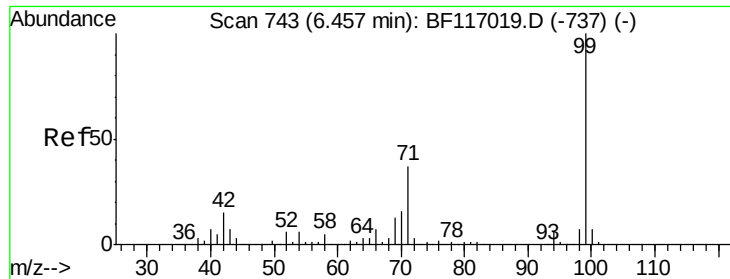
Abundance

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: 126.138 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF117053.D

Acq: 16 Sep 2019 10:48

Instrument :

BNA\_F

ClientSampleId :

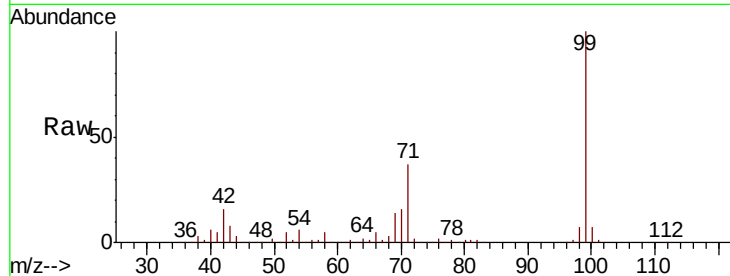
Tot Ion: 99 Resp: 860759

Ion Ratio Lower Upper

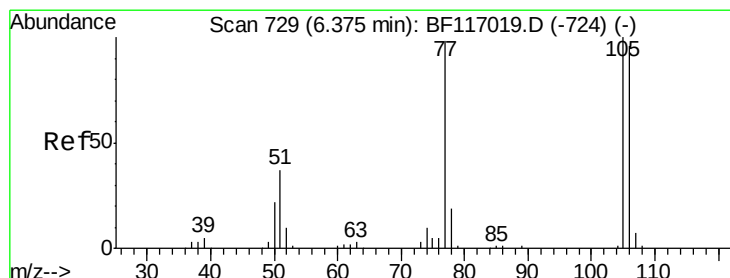
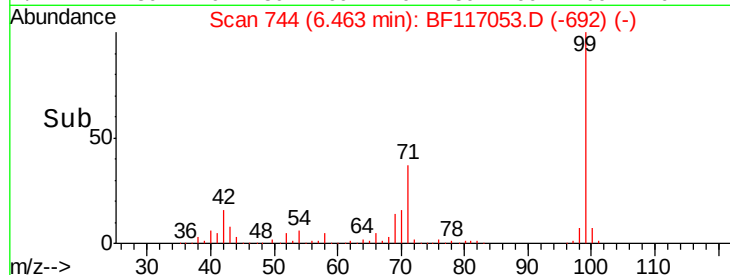
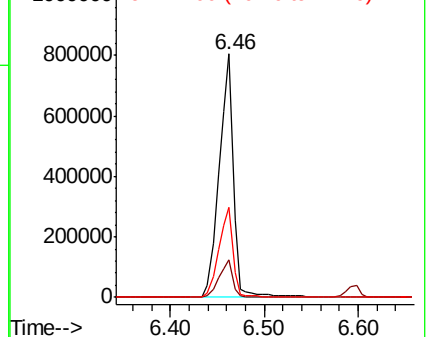
99 100

42 15.6 12.2 18.2

71 36.9 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: 6.46 min Scan# 744

Delta R.T. 0.09 min

Lab File: BF117053.D

Acq: 16 Sep 2019 10:48

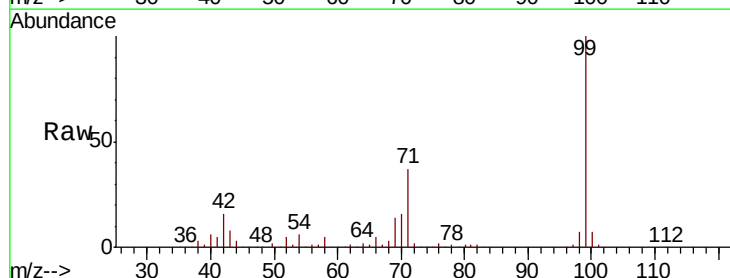
Tgt Ion: 77 Resp: 1231

Ion Ratio Lower Upper

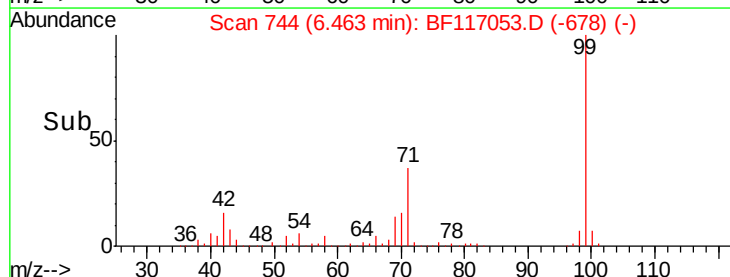
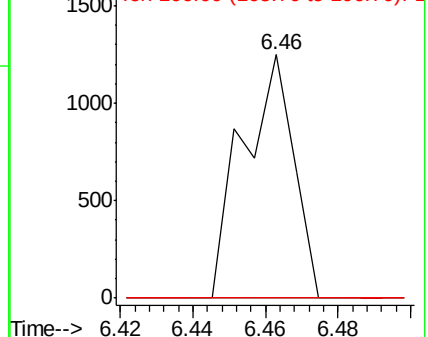
77 100

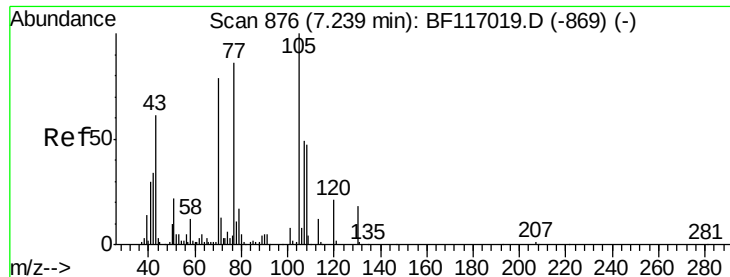
105 0.0 81.8 121.8#

106 0.0 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: 17.538 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.15 min

Lab File: BF117053.D

Acq: 16 Sep 2019 10:48

Instrument :

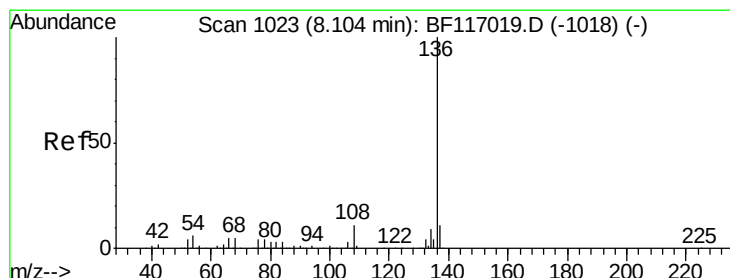
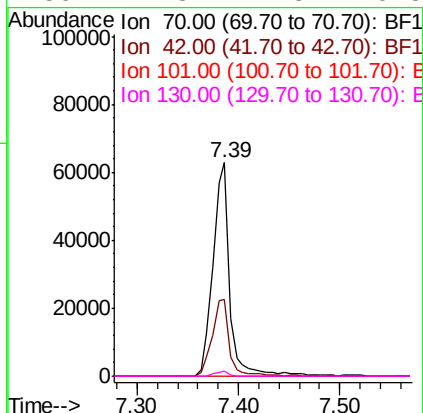
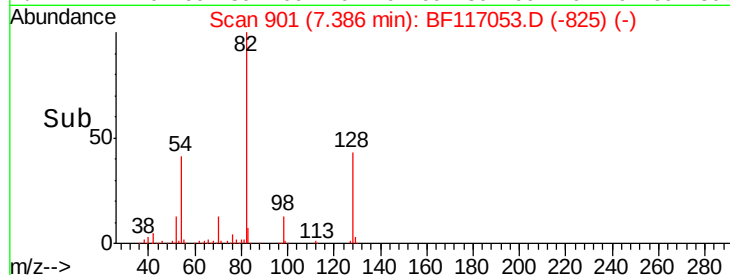
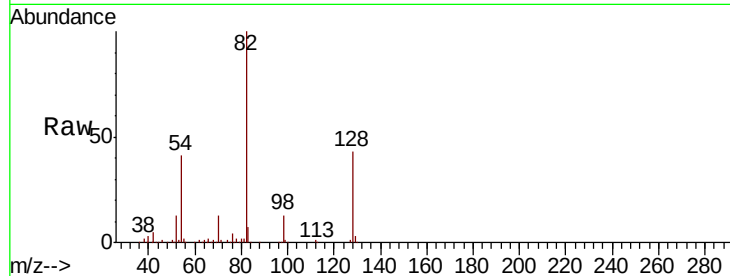
BNA\_F

ClientSampled :

Tot Ion: 70 Resp: 72876

Ion Ratio Lower Upper

|     |      |      |       |
|-----|------|------|-------|
| 70  | 100  |      |       |
| 42  | 36.2 | 34.0 | 51.0  |
| 101 | 0.0  | 7.8  | 11.6# |
| 130 | 2.3  | 17.8 | 26.8# |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.00 min

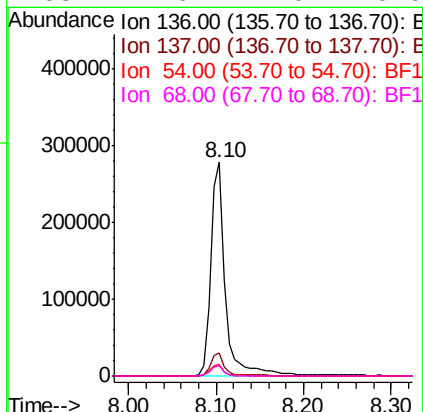
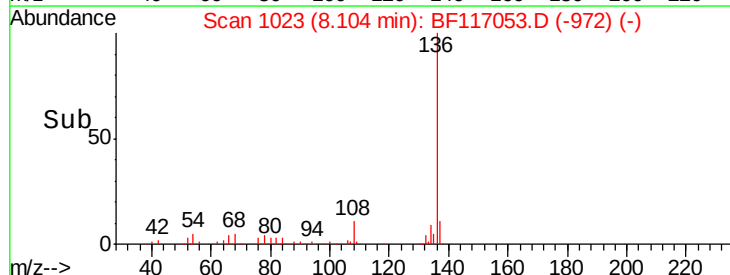
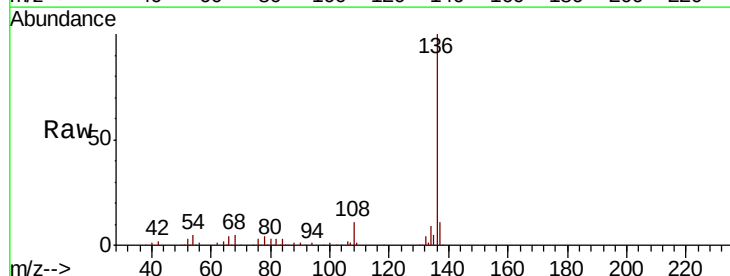
Lab File: BF117053.D

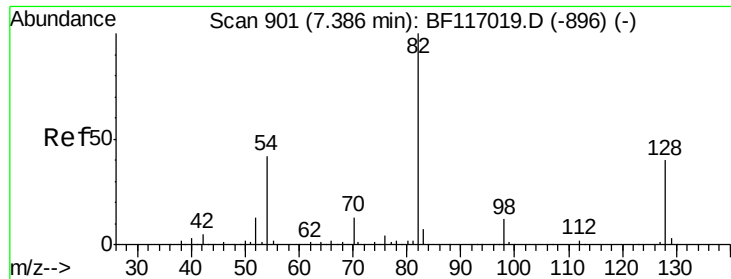
Acq: 16 Sep 2019 10:48

Tgt Ion: 136 Resp: 322617

Ion Ratio Lower Upper

|     |      |     |      |
|-----|------|-----|------|
| 136 | 100  |     |      |
| 137 | 10.9 | 9.0 | 13.4 |
| 54  | 5.2  | 4.5 | 6.7  |
| 68  | 4.6  | 4.0 | 6.0  |

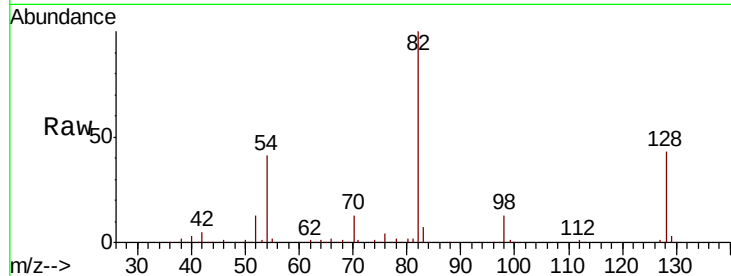




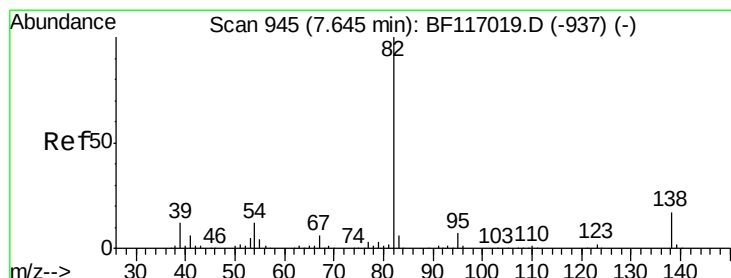
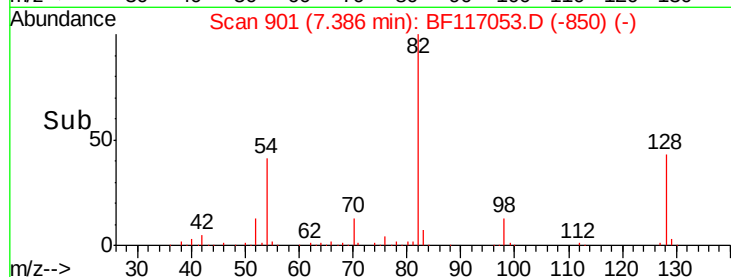
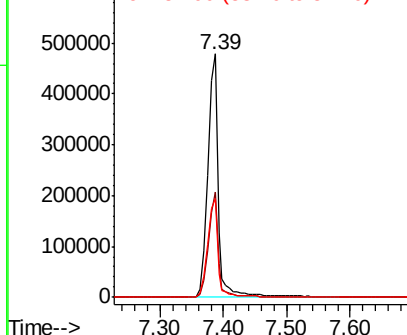
#23  
Nitrobenzene-d5  
Concen: 90.219 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: BF117053.D  
Acq: 16 Sep 2019 10:48

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82   | Resp  | 553957 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 43.1 | 32.3  | 48.5   |
| 54        | 40.7 | 33.3  | 49.9   |

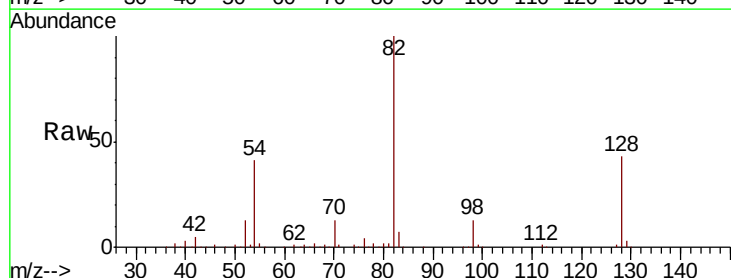


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

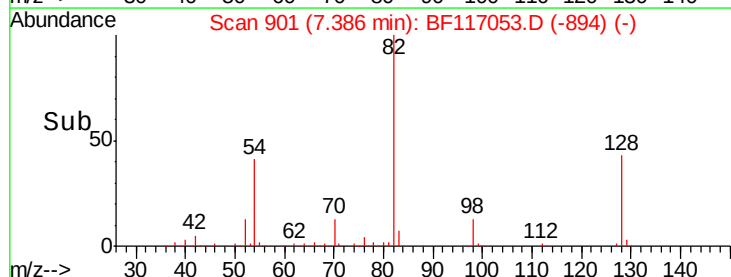
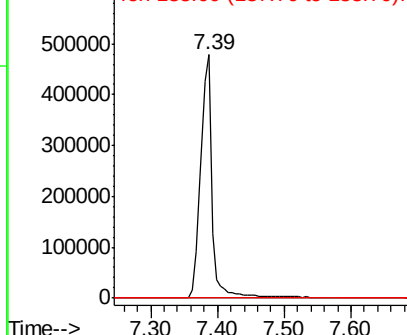


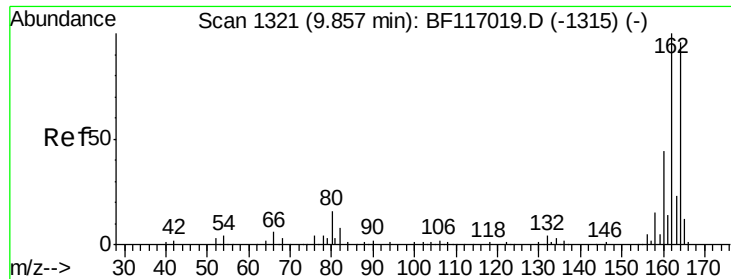
#25  
Isophorone  
Concen: 50.084 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.26 min  
Lab File: BF117053.D  
Acq: 16 Sep 2019 10:48

| Tgt Ion   | 82  | Resp  | 544495 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 95        | 0.0 | 5.8   | 8.6#   |
| 138       | 0.0 | 13.5  | 20.3#  |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF117053.D

Acq: 16 Sep 2019 10:48

Instrument :

BNA\_F

ClientSampleId :

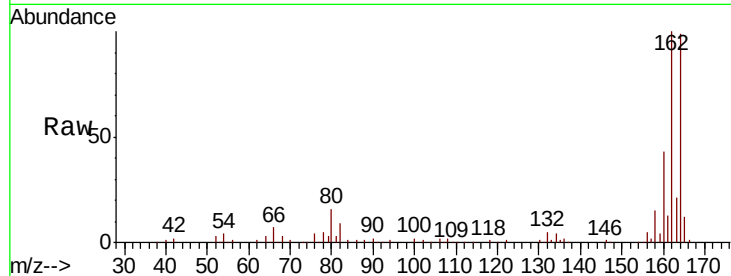
Tot Ion:164 Resp: 171474

Ion Ratio Lower Upper

164 100

162 101.3 83.4 125.2

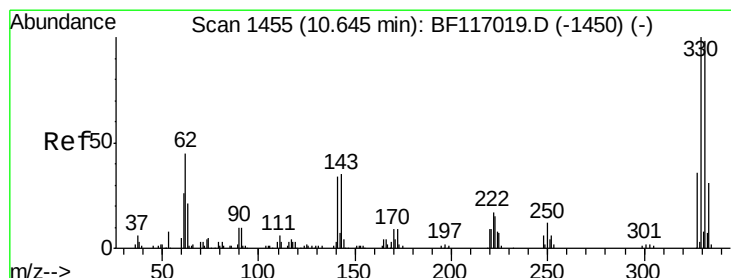
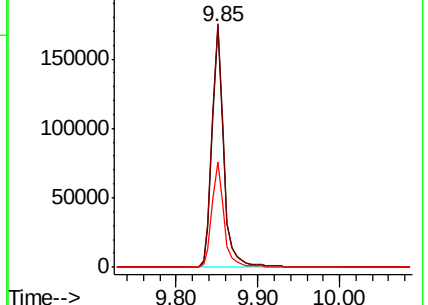
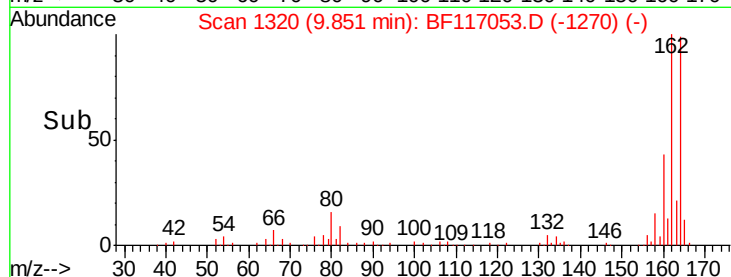
160 43.8 36.4 54.6



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: 131.216 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF117053.D

Acq: 16 Sep 2019 10:48

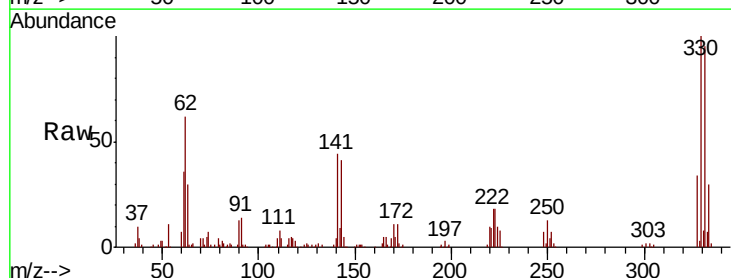
Tgt Ion:330 Resp: 188050

Ion Ratio Lower Upper

330 100

332 96.1 78.0 117.0

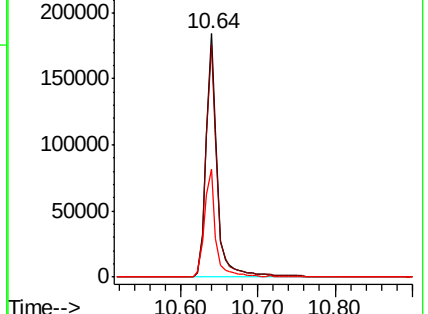
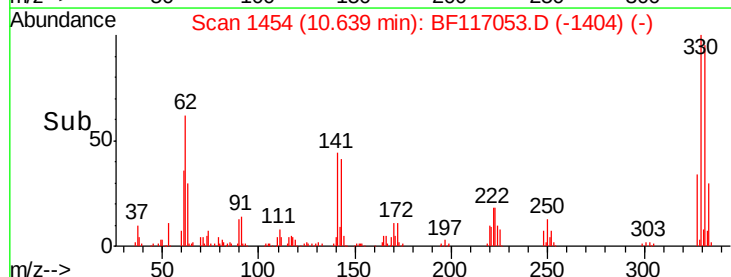
141 43.9 35.8 53.6

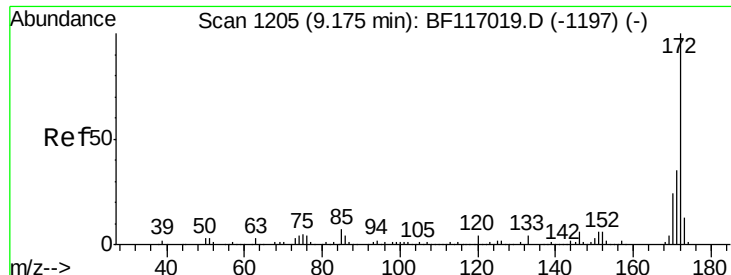


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

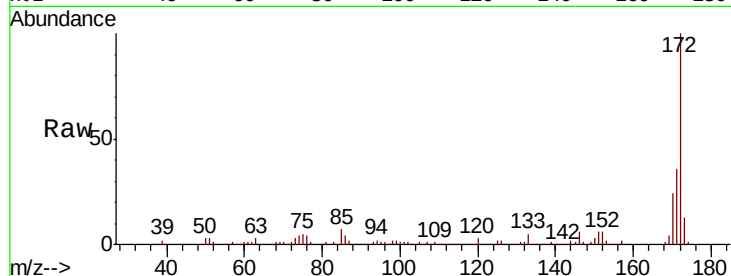




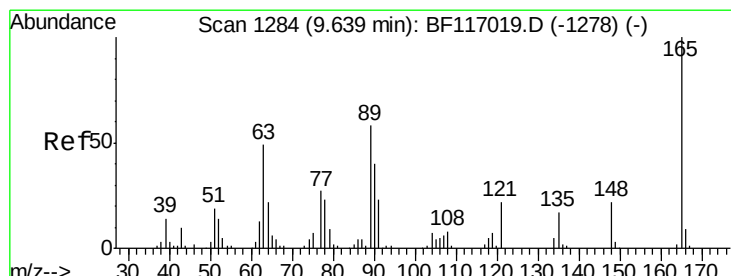
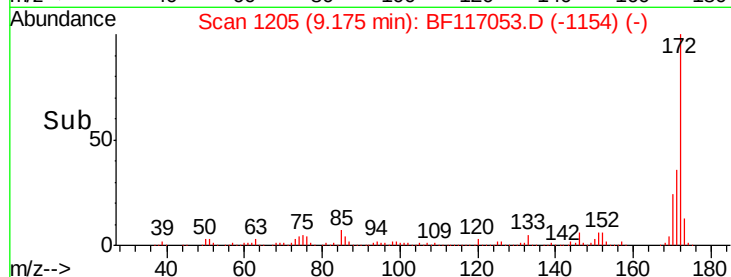
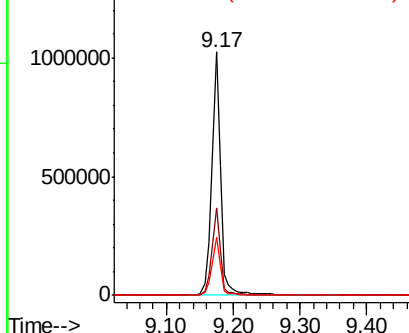
#45  
 2-Fluorobiphenyl  
 Concen: 89.616 ng  
 RT: 9.17 min Scan# 1205  
 Delta R.T. -0.00 min  
 Lab File: BF117053.D  
 Acq: 16 Sep 2019 10:48

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 28.2  | 42.2  |
| 170     | 24.0  | 18.9  | 28.3  |

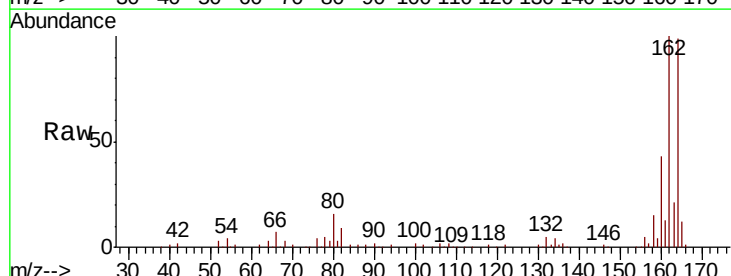


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

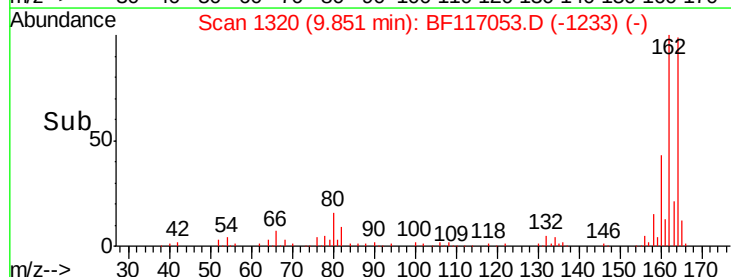
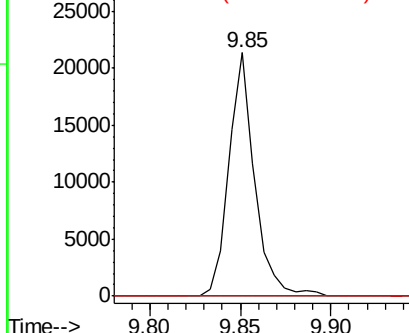


#51  
 2,6-Dinitrotoluene  
 Concen: 8.558 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. 0.21 min  
 Lab File: BF117053.D  
 Acq: 16 Sep 2019 10:48

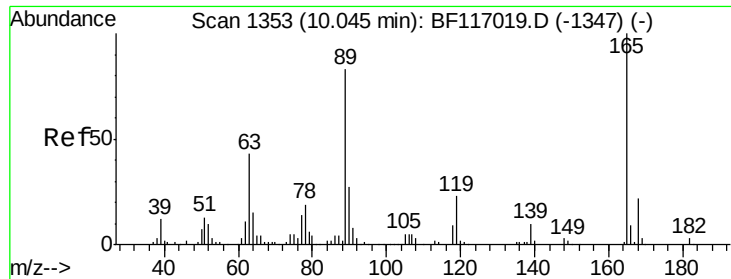
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 41.8  | 62.8# |
| 89      | 0.0   | 46.5  | 69.7# |



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



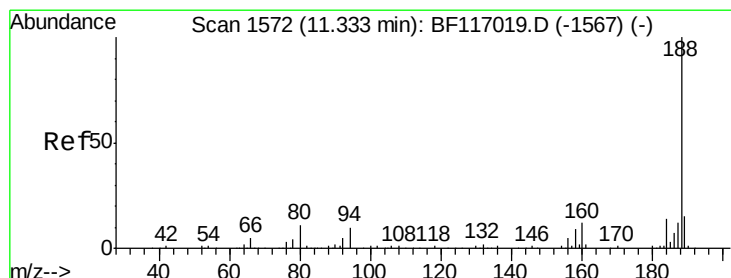
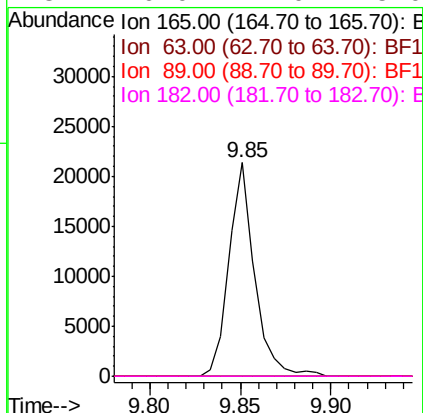
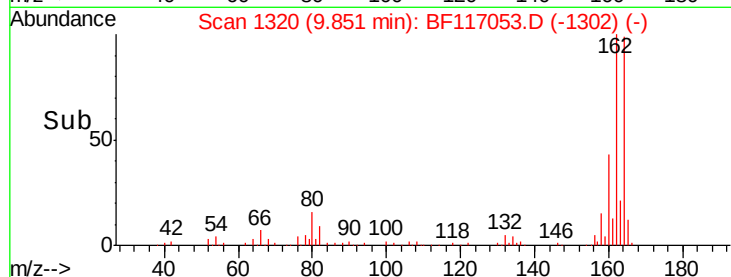
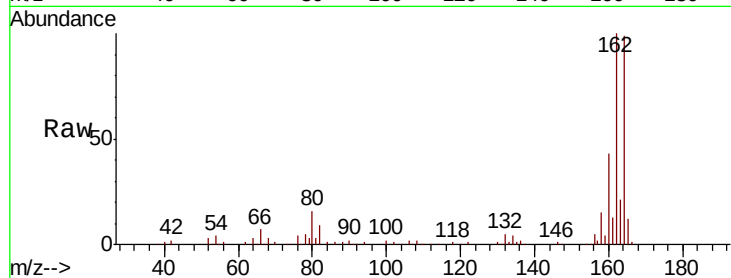




#57  
 2,4-Dinitrotoluene  
 Concen: 6.593 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. -0.19 min  
 Lab File: BF117053.D  
 Acq: 16 Sep 2019 10:48

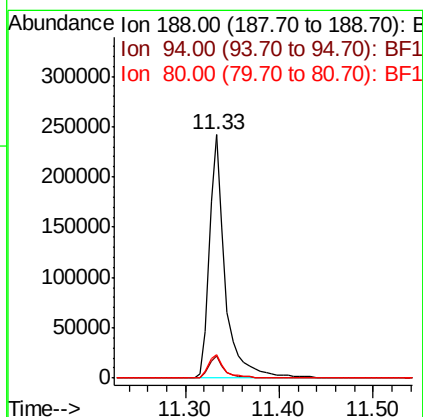
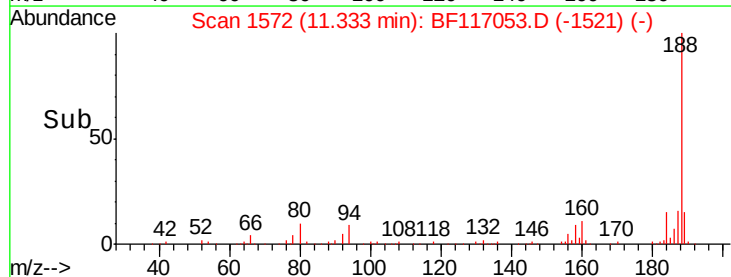
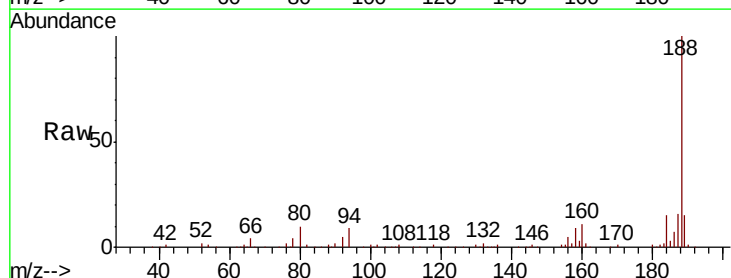
Instrument :  
 BNA\_F  
 ClientSampleId :

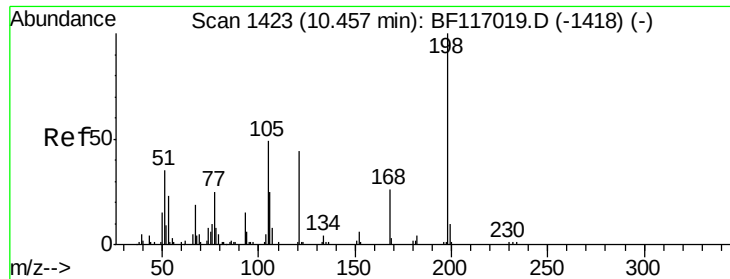
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 35.0  | 52.4# |
| 89      | 0.0   | 66.1  | 99.1# |
| 182     | 0.0   | 2.0   | 3.0#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. -0.00 min  
 Lab File: BF117053.D  
 Acq: 16 Sep 2019 10:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.3   | 8.2   | 12.2  |
| 80      | 9.6   | 9.0   | 13.6  |

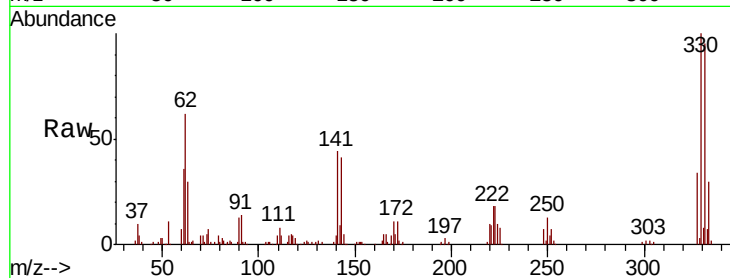




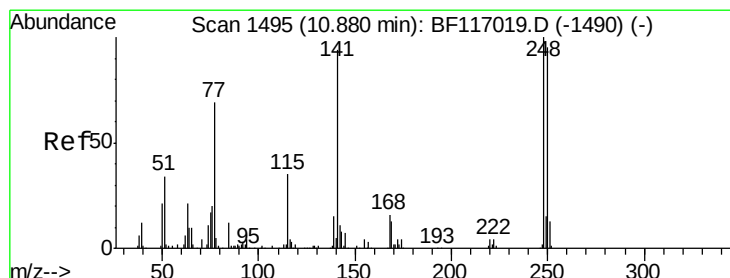
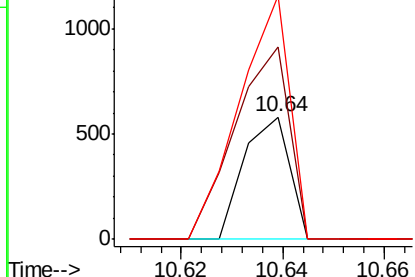
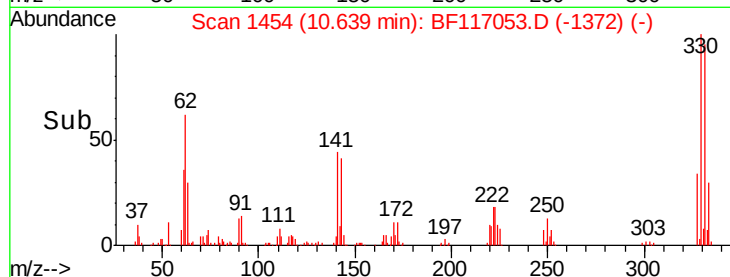
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.143 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. 0.18 min  
 Lab File: BF117053.D  
 Acq: 16 Sep 2019 10:48

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 367  
 Ion Ratio Lower Upper  
 198 100  
 51 157.5 18.7 58.7#  
 105 199.0 30.2 70.2#

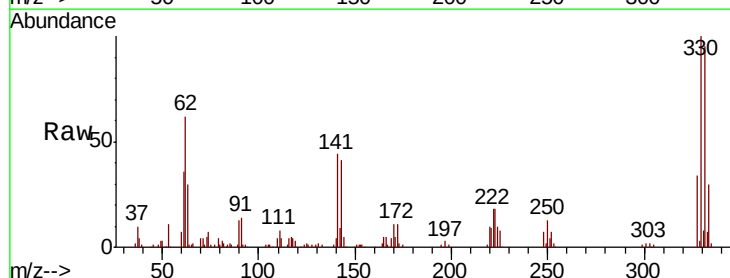


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

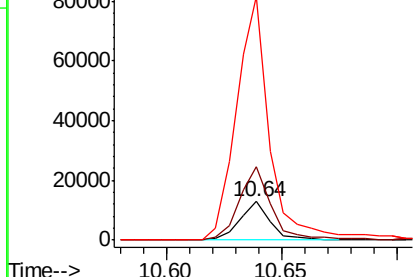
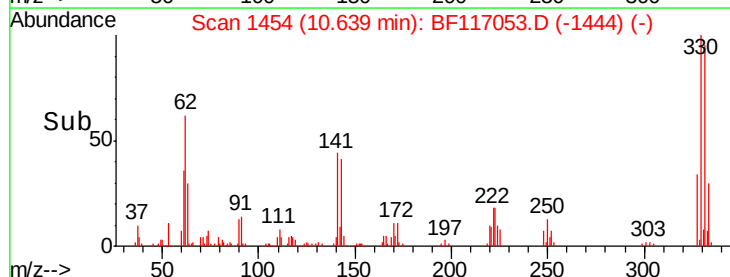


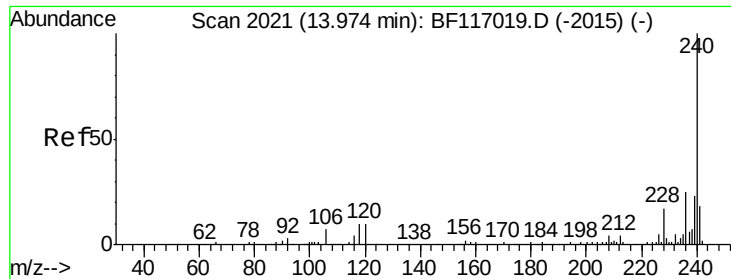
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.973 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.24 min  
 Lab File: BF117053.D  
 Acq: 16 Sep 2019 10:48

Tgt Ion:248 Resp: 11635  
 Ion Ratio Lower Upper  
 248 100  
 250 190.8 76.2 114.4#  
 141 637.1 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

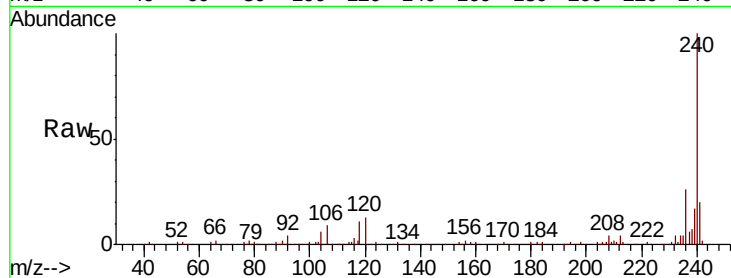




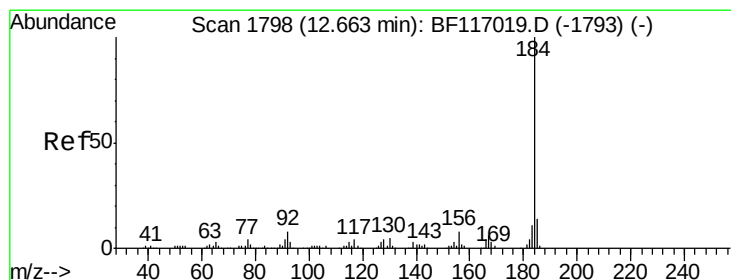
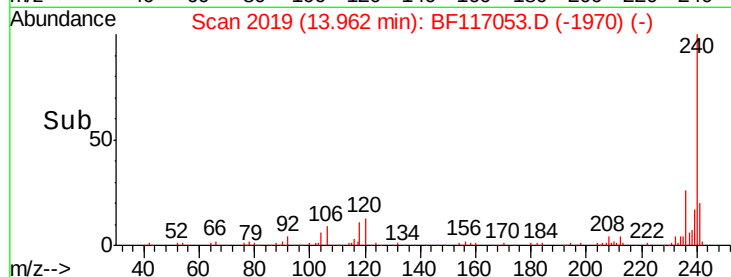
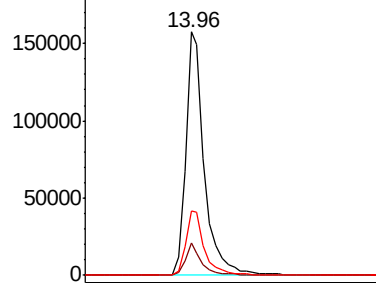
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.01 min  
Lab File: BF117053.D  
Acq: 16 Sep 2019 10:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:240 Resp: 194258  
Ion Ratio Lower Upper  
240 100  
120 13.1 8.3 12.5#  
236 26.3 20.3 30.5

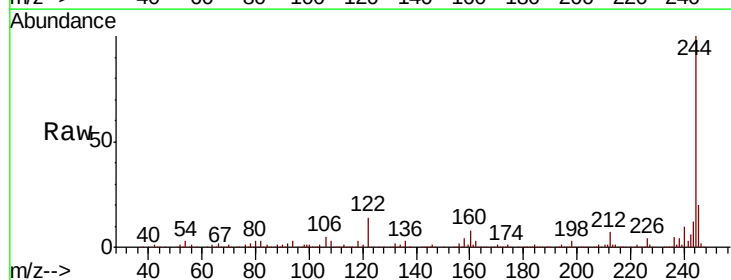


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

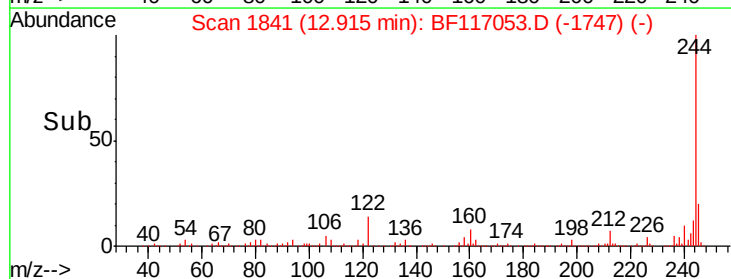
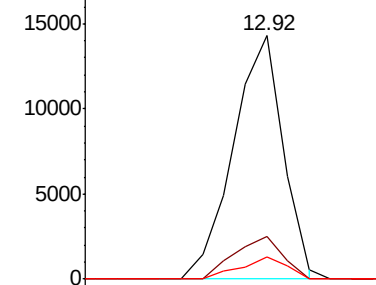


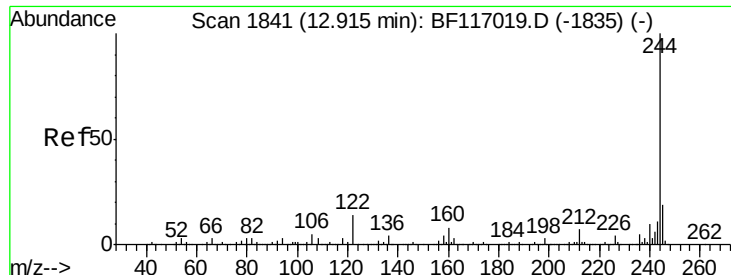
#77  
Benzidine  
Concen: 2.181 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. 0.25 min  
Lab File: BF117053.D  
Acq: 16 Sep 2019 10:48

Tgt Ion:184 Resp: 13648  
Ion Ratio Lower Upper  
184 100  
185 17.5 11.6 17.4#  
183 9.2 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

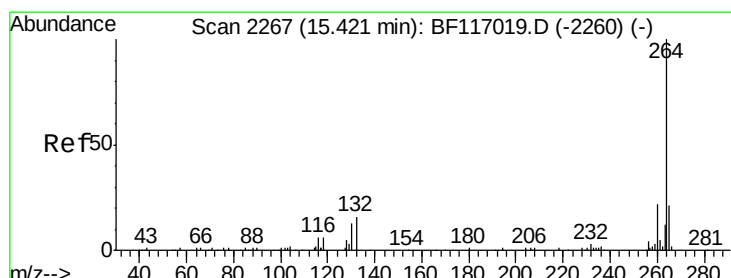
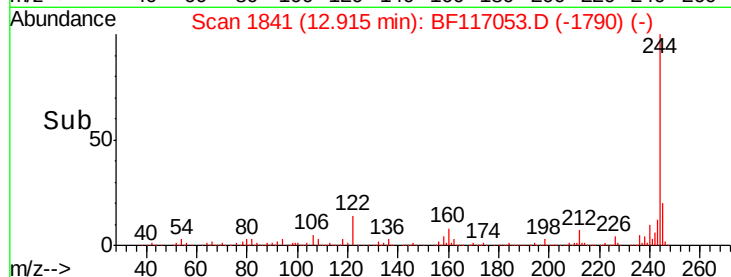
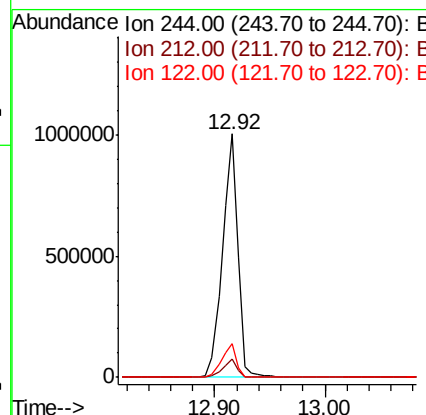
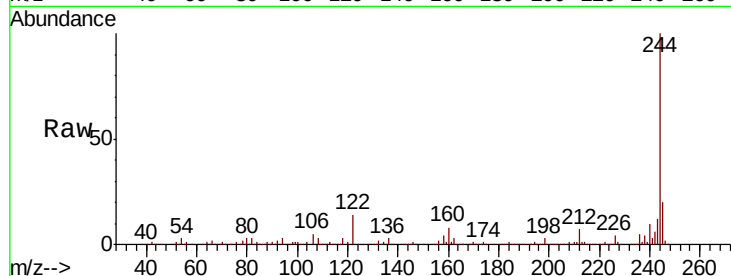




#79  
 Terphenyl-d14  
 Concen: 92.959 ng  
 RT: 12.92 min Scan# 1841  
 Delta R.T. -0.00 min  
 Lab File: BF117053.D  
 Acq: 16 Sep 2019 10:48

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.3   | 5.8   | 8.8   |
| 122     | 14.0  | 11.3  | 16.9  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.41 min Scan# 2265  
 Delta R.T. -0.01 min  
 Lab File: BF117053.D  
 Acq: 16 Sep 2019 10:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 17.6  | 26.4  |
| 265     | 22.3  | 16.6  | 24.8  |

