

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090120\  
 Data File : BF121496.D  
 Acq On : 1 Sep 2020 14:47  
 Operator : JU/CG  
 Sample : PB131322BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB131322BL

Quant Time: Sep 01 17:07:18 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082720.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 28 09:25:49 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 287636   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.14  | 136  | 1112754  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.90  | 164  | 582109   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.38 | 188  | 1135761  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.02 | 240  | 1001641  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.50 | 264  | 986797   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.48  | 112 | 1931933 | 112.69 | ng | 0.00  |
| 7) Phenol-d6             | 6.48  | 99  | 2515716 | 105.00 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.42  | 82  | 1655938 | 101.74 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.69 | 330 | 810368  | 137.83 | ng | 0.00  |
| 45) 2-Fluorobiphenyl     | 9.22  | 172 | 2913230 | 80.75  | ng | -0.01 |
| 79) Terphenyl-d14        | 12.97 | 244 | 3276686 | 68.86  | ng | 0.00  |

## Target Compounds

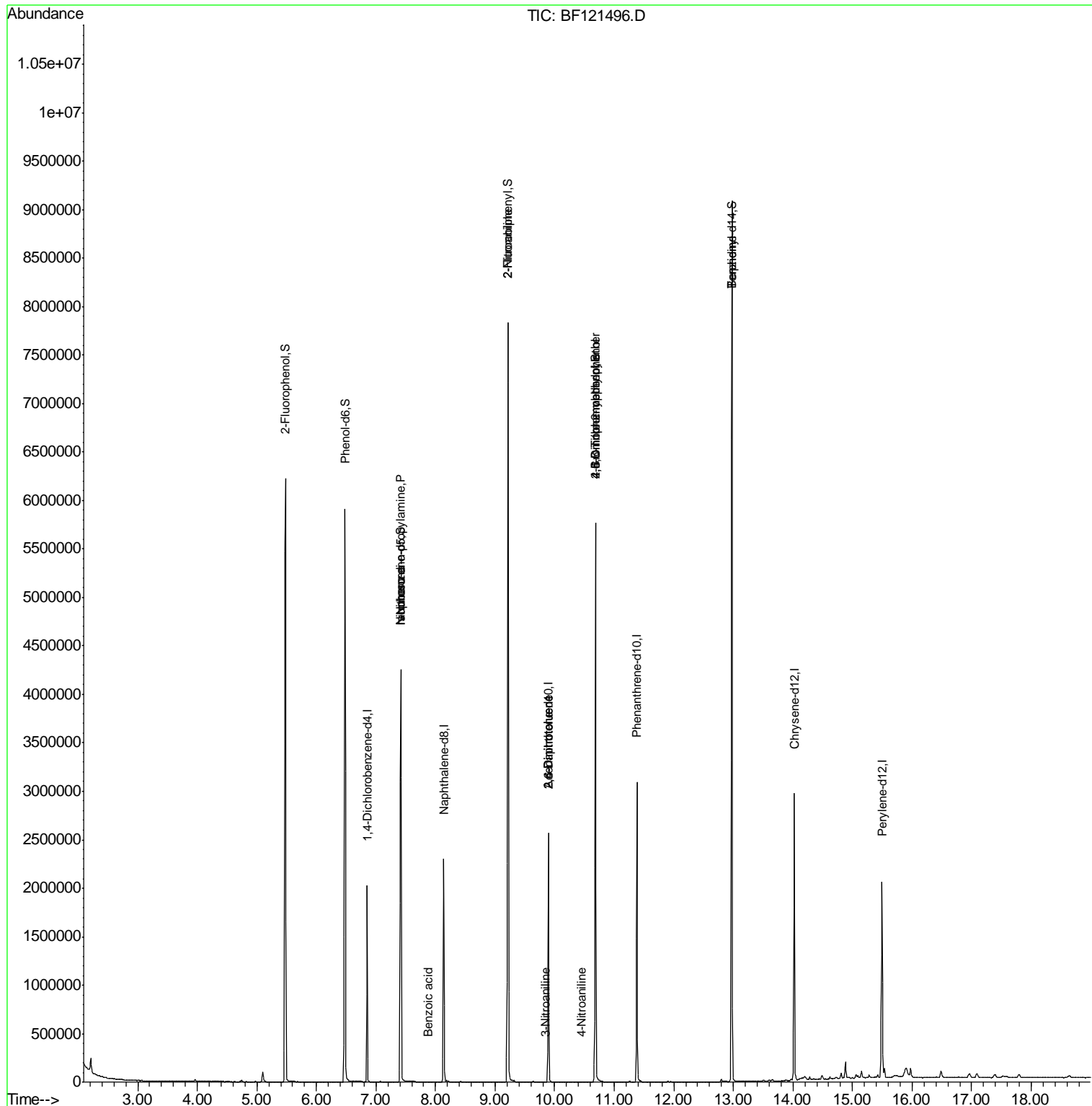
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.48  | 77   | 4252     | Below Cal |       | # 2    |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 217969   | 16.280    | ng    | # 78   |
| 25) Isophorone                 | 7.42  | 82   | 1624706  | 44.379    | ng    | # 64   |
| 32) Benzoic acid               | 7.87  | 122  | 116      | 6.675     | ng    | # 1    |
| 48) 2-Nitroaniline             | 9.22  | 65   | 4883     | 7.063     | ng    | # 2    |
| 51) 2,6-Dinitrotoluene         | 9.89  | 165  | 74515    | 15.032    | ng    | # 24   |
| 53) 3-Nitroaniline             | 9.85  | 138  | 141      | 5.465     | ng    | # 67   |
| 57) 2,4-Dinitrotoluene         | 9.89  | 165  | 74515    | 14.129    | ng    | # 21   |
| 62) 4-Nitroaniline             | 10.45 | 138  | 125      | 4.547     | ng    | # 18   |
| 65) 4,6-Dinitro-2-methylphenol | 10.69 | 198  | 1679     | 6.282     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.69 | 248  | 46971    | 3.759     | ng    | # 1    |
| 77) Benzidine                  | 12.97 | 184  | 46869    | 2.146     | ng    | # 96   |

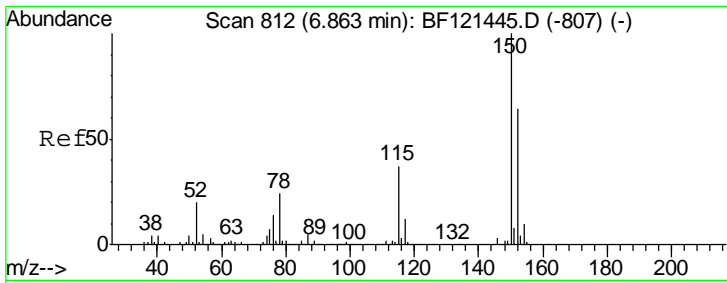
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 PB131322BL

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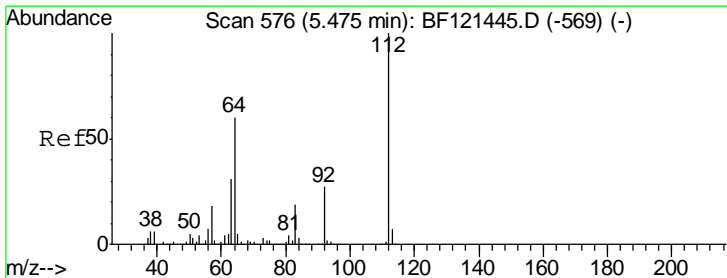
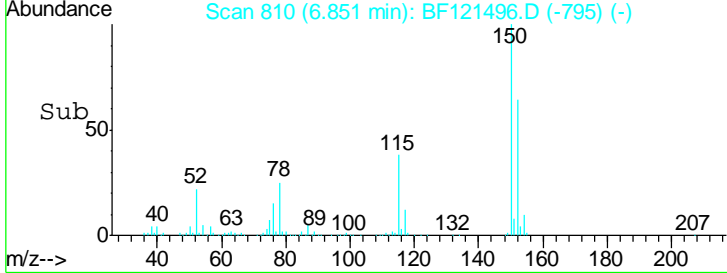
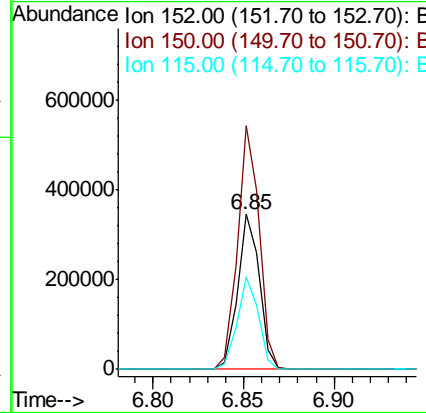
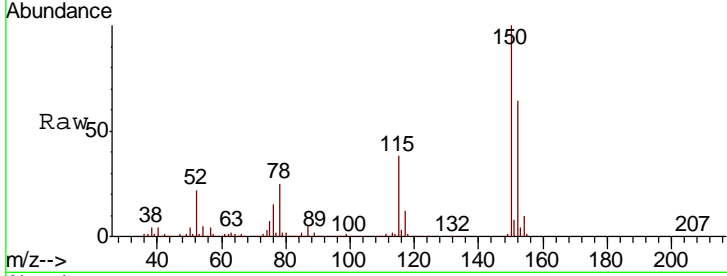




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.85 min Scan# 810  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

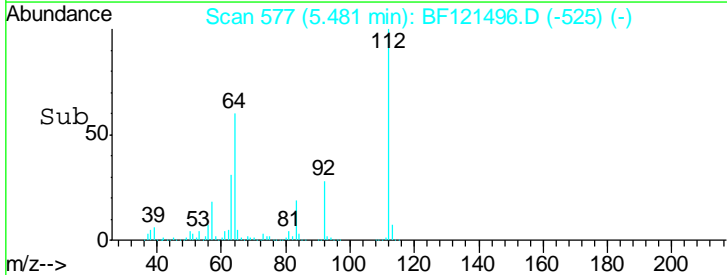
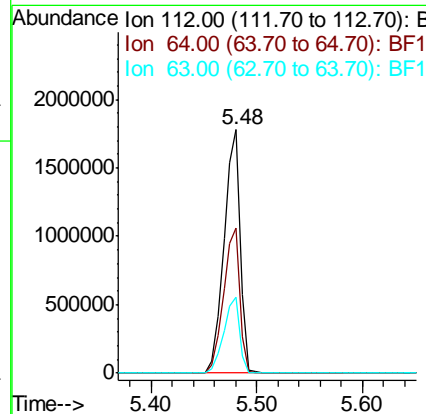
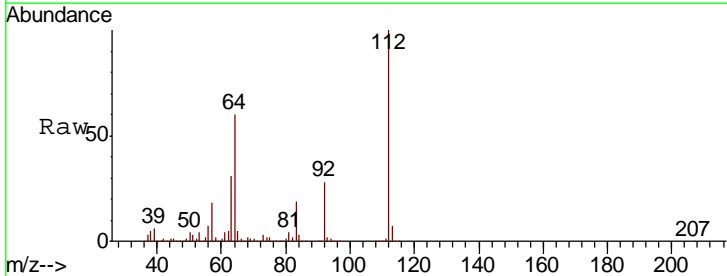
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB131322BL

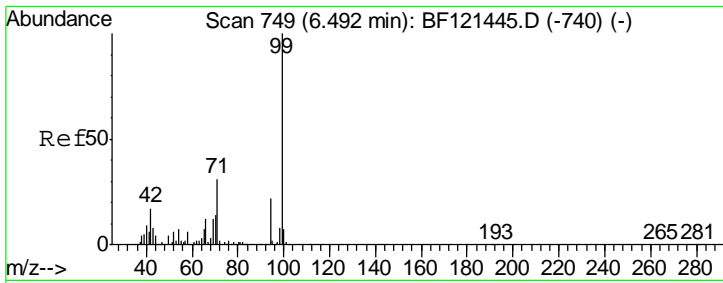
| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 125.8 | 188.6 |
| 115     | 59.9  | 46.6  | 69.8  |



#5  
 2-Fluorophenol  
 Concen: 112.687 ng  
 RT: 5.48 min Scan# 577  
 Delta R.T. 0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 112     | 100  |       |       |
| 64      | 59.6 | 48.2  | 72.2  |
| 63      | 31.1 | 24.8  | 37.2  |

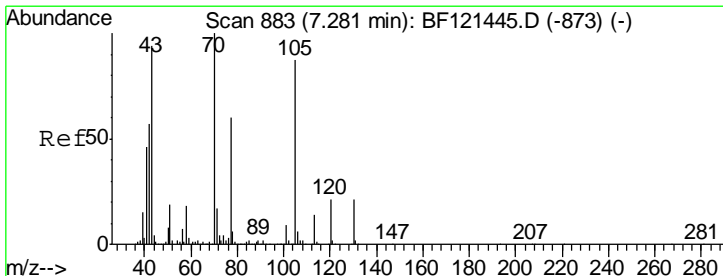
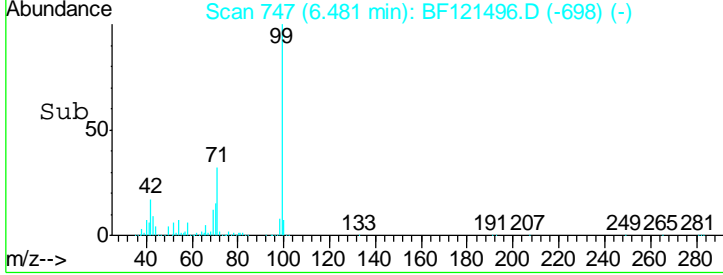
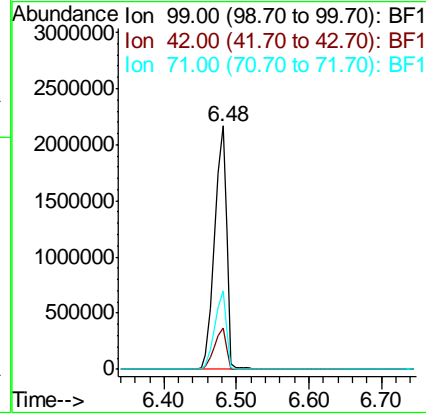
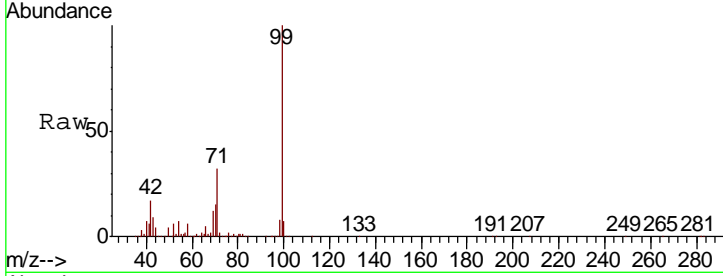




#7  
 Phenol-d6  
 Concen: 105.003 ng  
 RT: 6.48 min Scan# 747  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

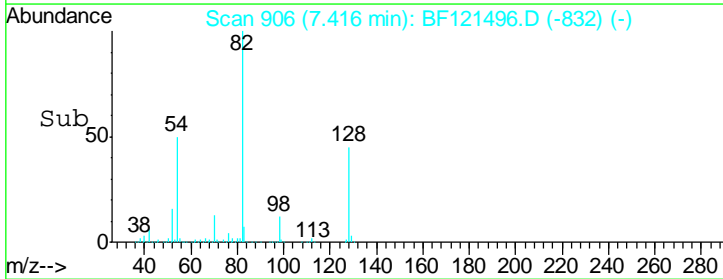
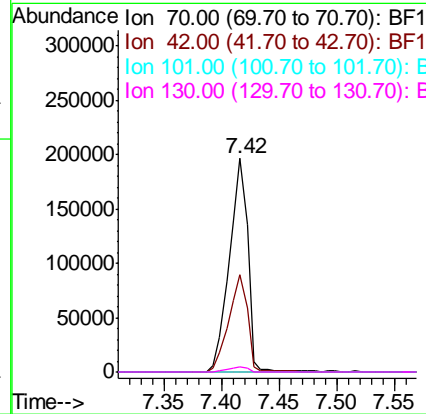
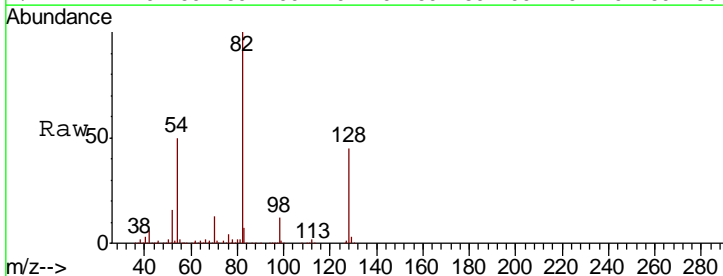
**Instrument :**  
 BNA\_F  
**ClientSampleId :**  
 PB131322BL

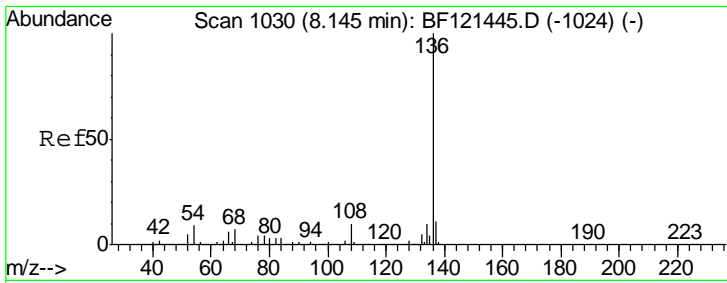
| Tgt Ion | Resp    | Lower | Upper |
|---------|---------|-------|-------|
| 99      | 2515716 |       |       |
| 42      | 16.9    | 13.5  | 20.3  |
| 71      | 32.1    | 24.6  | 37.0  |



#19  
 n-Nitroso-di-n-propylamine  
 Concen: 16.280 ng  
 RT: 7.42 min Scan# 906  
 Delta R.T. 0.14 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 70      | 217969 |       |       |
| 42      | 45.7   | 45.8  | 68.6# |
| 101     | 0.0    | 7.5   | 11.3# |
| 130     | 2.2    | 16.5  | 24.7# |



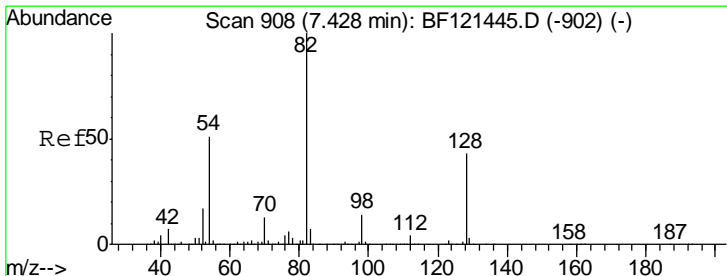
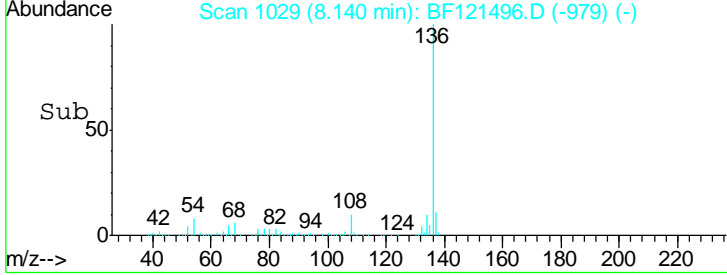
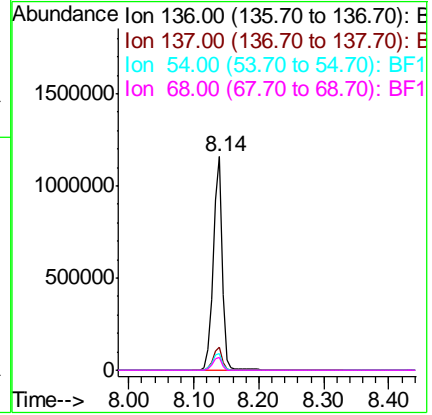
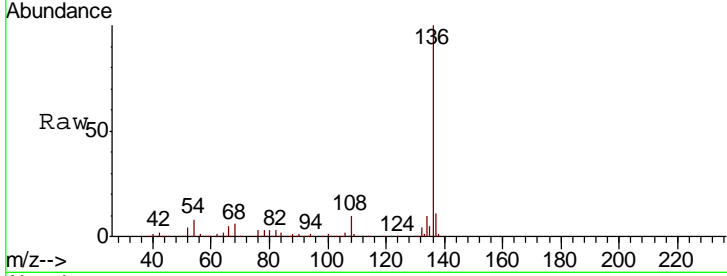


#21  
 Naphthalene-d8  
 Concen: 20.000 ng  
 RT: 8.14 min Scan# 1029  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 PB131322BL

Tgt Ion: 136 Resp: 1112754

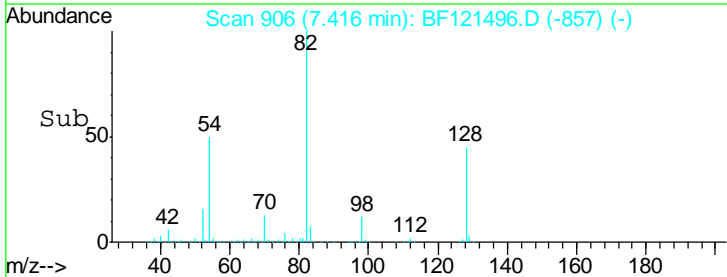
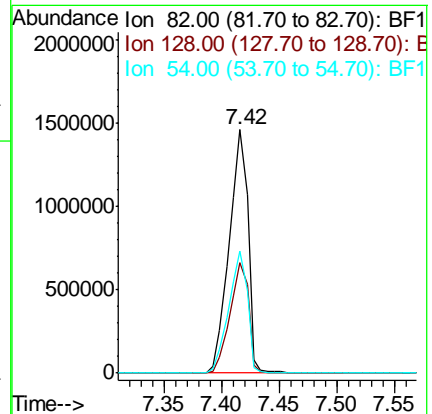
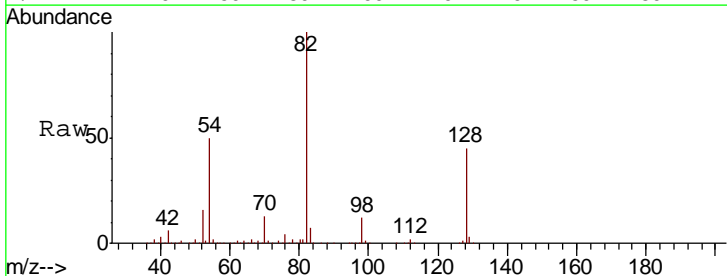
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.0  | 9.1   | 13.7  |
| 54  | 7.7   | 7.0   | 10.4  |
| 68  | 6.2   | 5.5   | 8.3   |

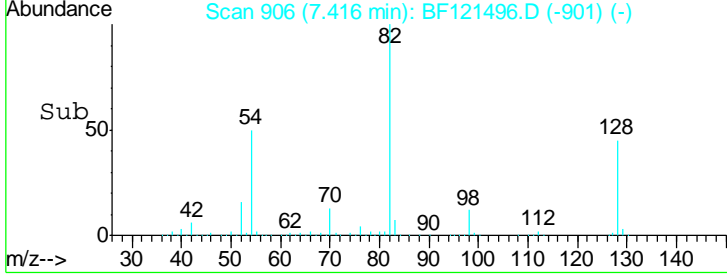
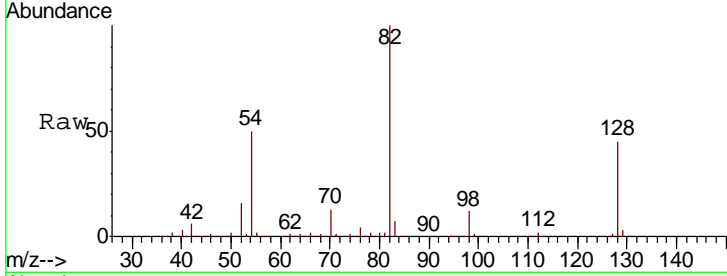
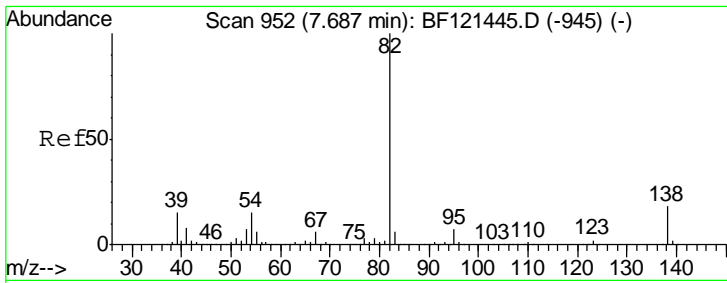


#23  
 Nitrobenzene-d5  
 Concen: 101.738 ng  
 RT: 7.42 min Scan# 906  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

Tgt Ion: 82 Resp: 1655938

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 45.4  | 34.1  | 51.1  |
| 54  | 50.0  | 41.0  | 61.6  |

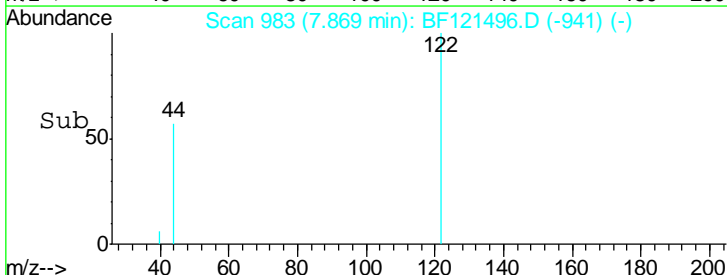
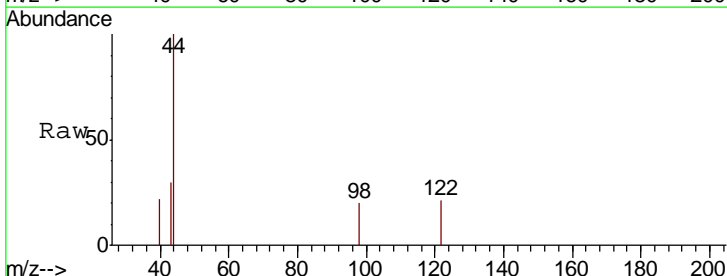
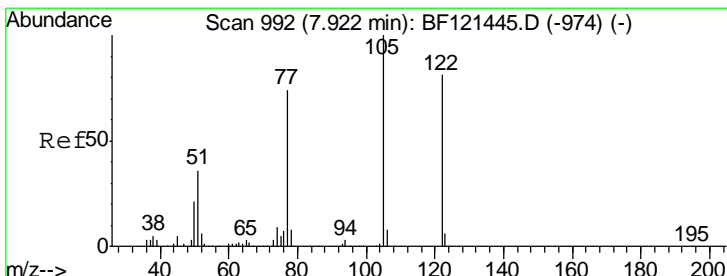
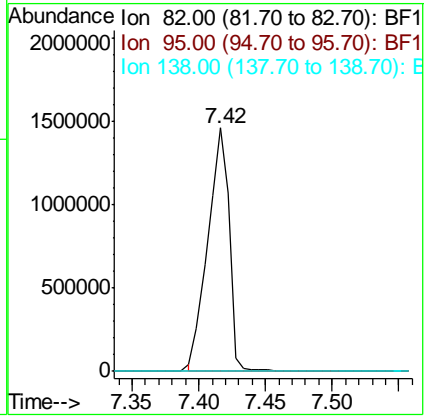




#25  
 Isophorone  
 Concen: 44.379 ng  
 RT: 7.42 min Scan# 906  
 Delta R.T. -0.27 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

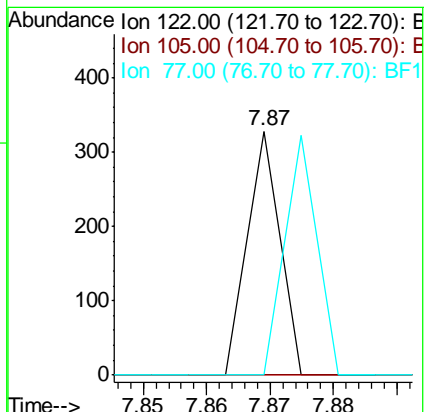
Instrument :  
 BNA\_F  
 ClientSampled :  
 PB131322BL

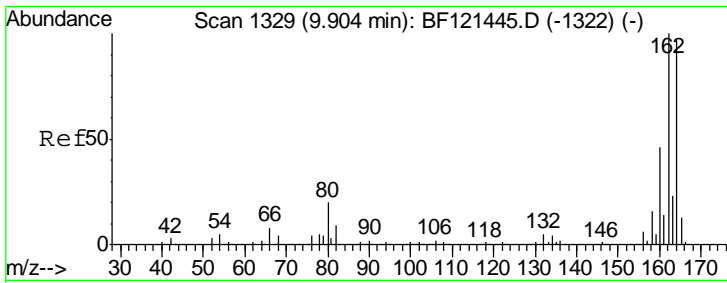
| Tgt Ion | Resp    | Lower | Upper |
|---------|---------|-------|-------|
| 82      | 1624706 |       |       |
| 95      | 0.0     | 5.6   | 8.4#  |
| 138     | 0.0     | 14.8  | 22.2# |



#32  
 Benzoic acid  
 Concen: 6.675 ng  
 RT: 7.87 min Scan# 983  
 Delta R.T. -0.05 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

| Tgt Ion | Resp | Lower | Upper  |
|---------|------|-------|--------|
| 122     | 116  |       |        |
| 105     | 0.0  | 100.8 | 140.8# |
| 77      | 0.0  | 71.5  | 111.5# |

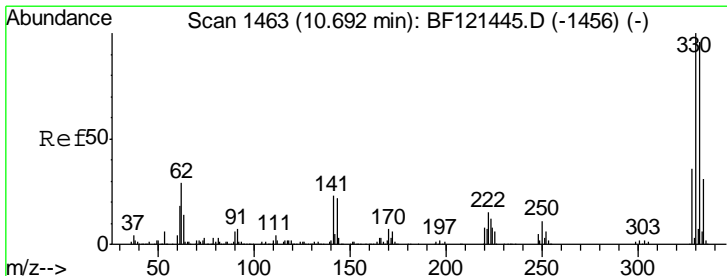
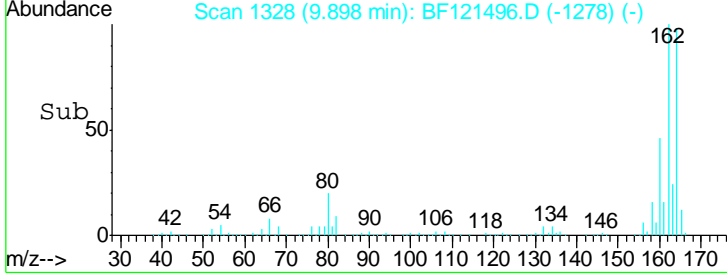
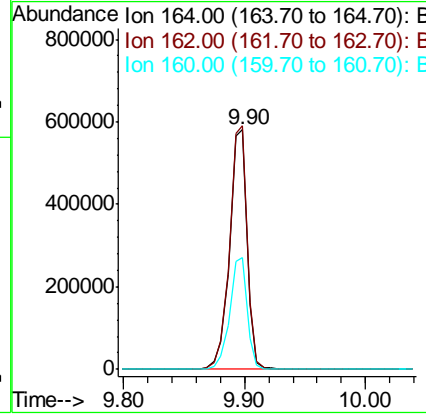
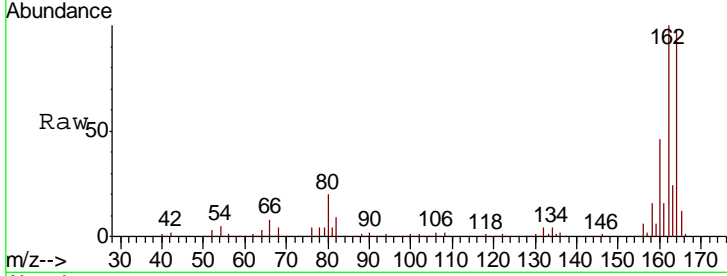




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

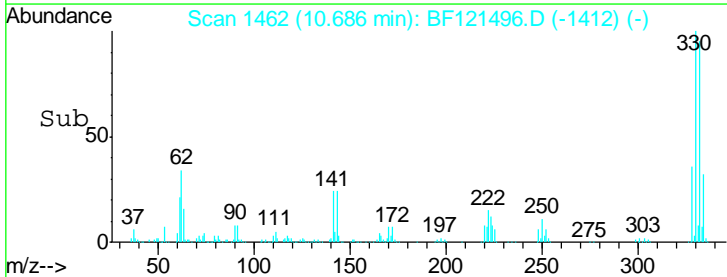
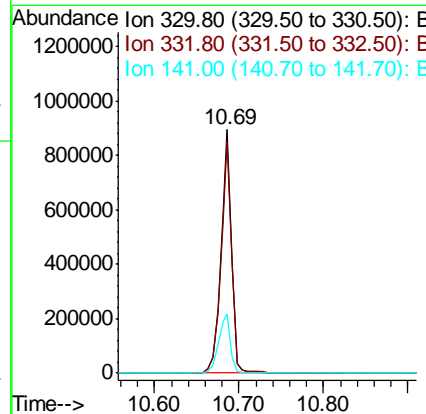
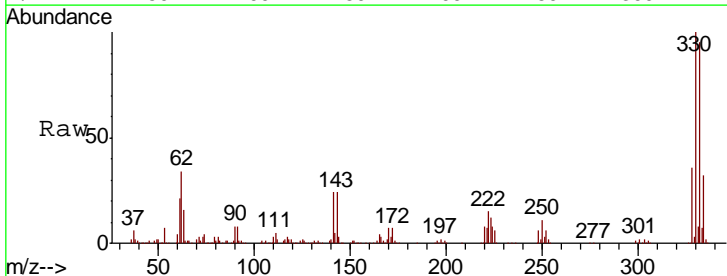
Instrument :  
 BNA\_F  
 ClientSampled :  
 PB131322BL

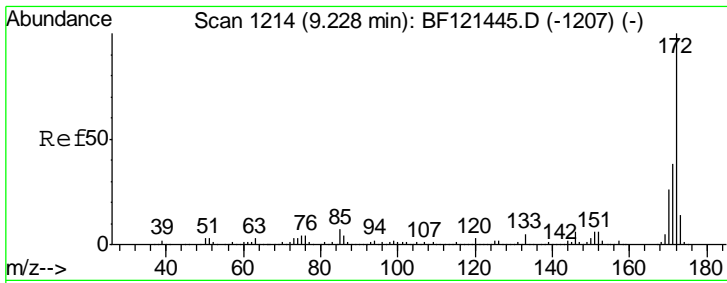
| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 82.4  | 123.6 |
| 160     | 46.9  | 37.6  | 56.4  |



#42  
 2,4,6-Tribromophenol  
 Concen: 137.827 ng  
 RT: 10.69 min Scan# 1462  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 330     | 100  |       |       |
| 332     | 96.0 | 76.2  | 114.2 |
| 141     | 27.7 | 24.6  | 36.8  |



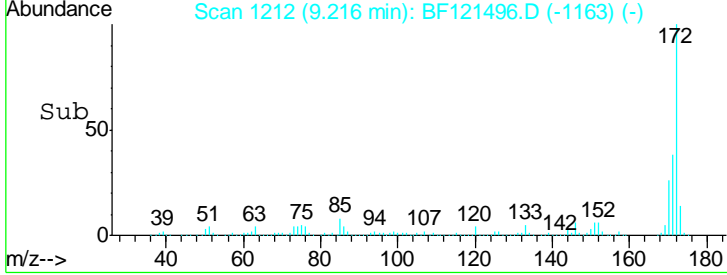
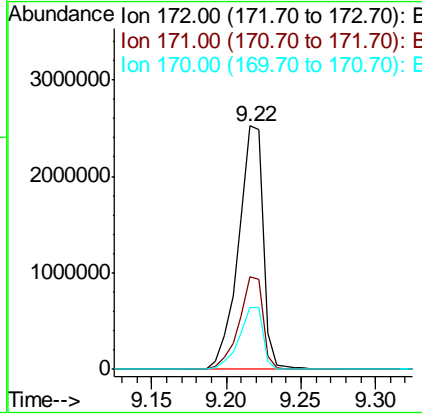
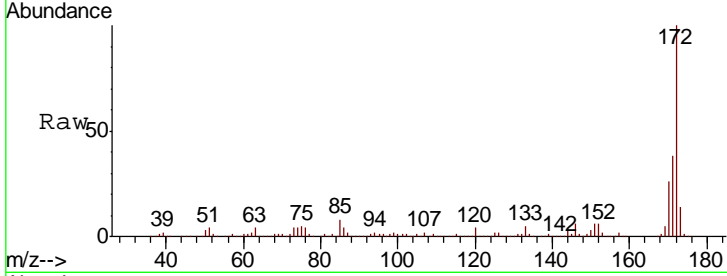


#45  
 2-Fluorobiphenyl  
 Concen: 80.751 ng  
 RT: 9.22 min Scan# 1212  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

Instrument :  
 BNA\_F  
 ClientSampled :  
 PB131322BL

Tgt Ion: 172 Resp: 2913230

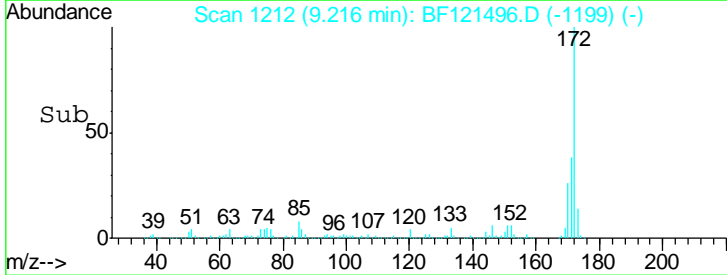
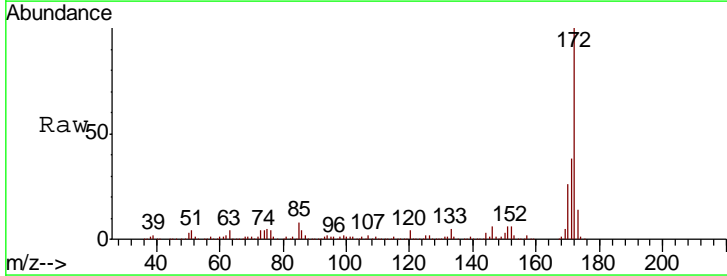
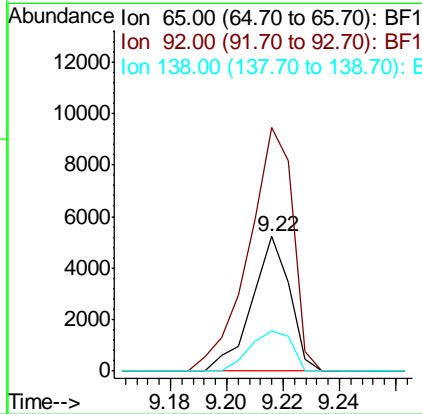
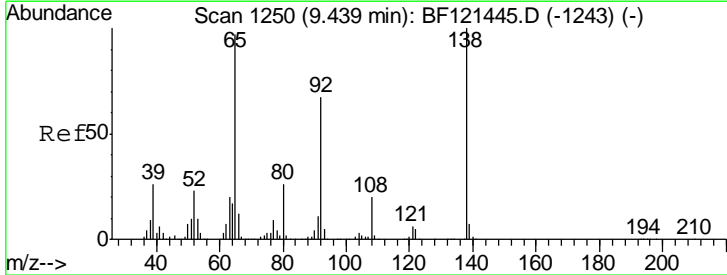
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 37.8  | 30.6  | 45.8  |
| 170 | 25.5  | 20.6  | 31.0  |



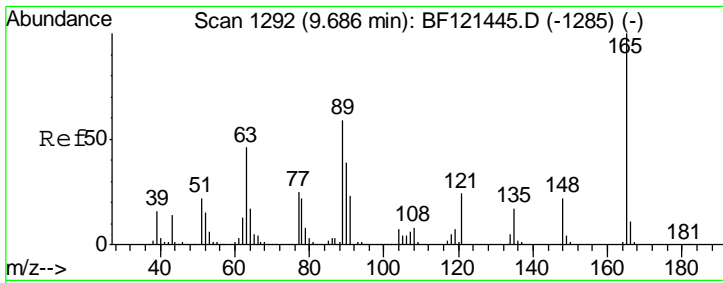
#48  
 2-Nitroaniline  
 Concen: 7.063 ng  
 RT: 9.22 min Scan# 1212  
 Delta R.T. -0.22 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

Tgt Ion: 65 Resp: 4883

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 65  | 100   |       |        |
| 92  | 181.1 | 55.6  | 83.4#  |
| 138 | 30.1  | 82.9  | 124.3# |



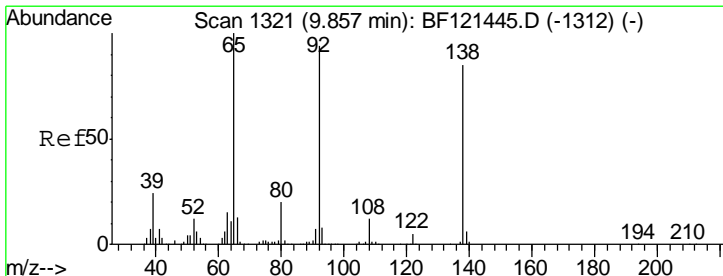
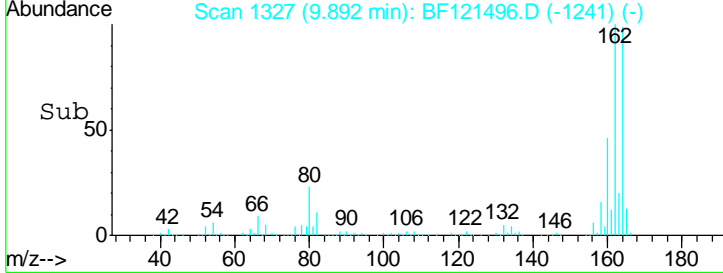
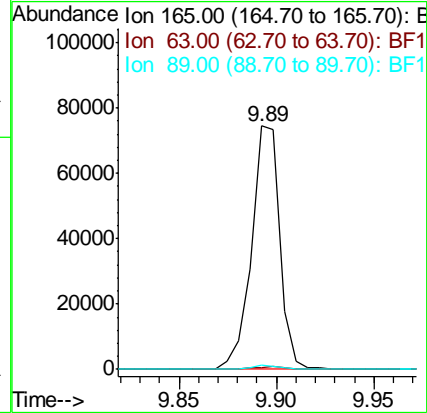
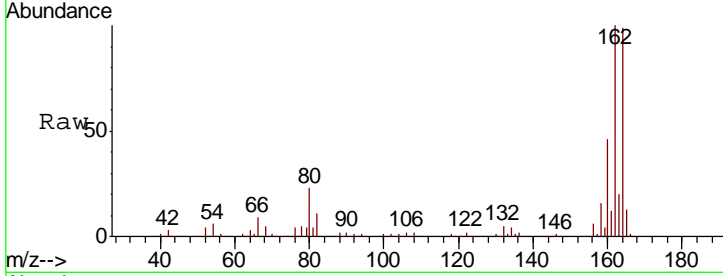




#51  
 2,6-Dinitrotoluene  
 Concen: 15.032 ng  
 RT: 9.89 min Scan# 1327  
 Delta R.T. 0.21 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

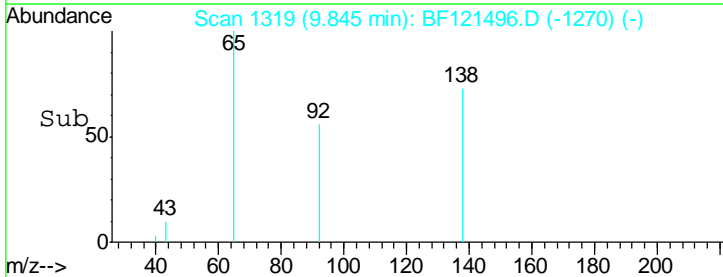
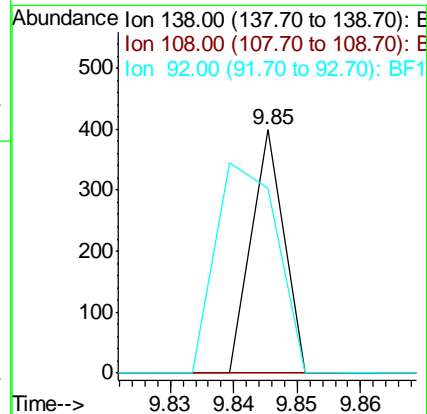
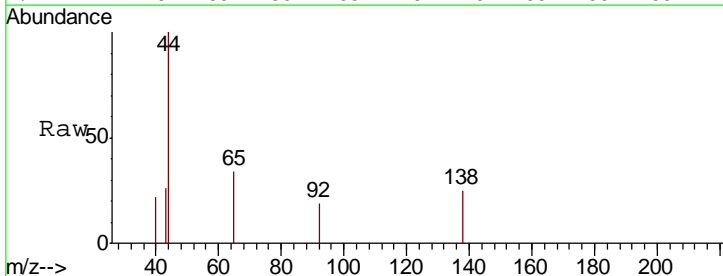
Instrument :  
 BNA\_F  
 ClientSampled :  
 PB131322BL

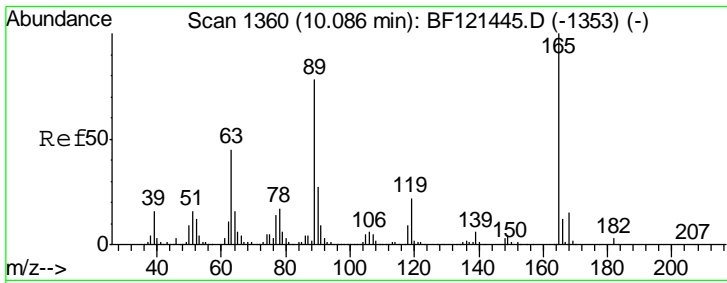
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 165     | 100  |       |       |
| 63      | 0.9  | 43.6  | 65.4# |
| 89      | 1.6  | 47.4  | 71.2# |



#53  
 3-Nitroaniline  
 Concen: 5.465 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

| Tgt Ion | Resp | Lower | Upper  |
|---------|------|-------|--------|
| 138     | 100  |       |        |
| 108     | 0.0  | 11.6  | 17.4#  |
| 92      | 76.2 | 88.6  | 132.8# |

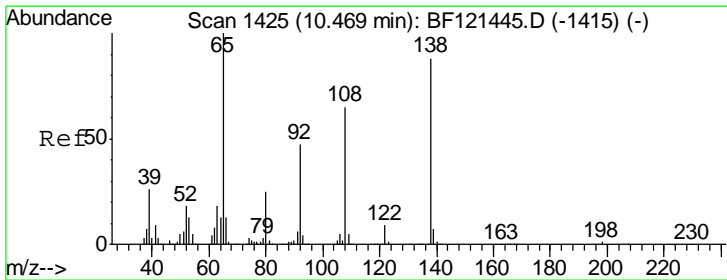
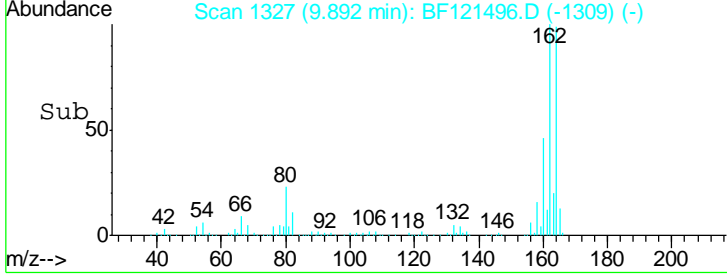
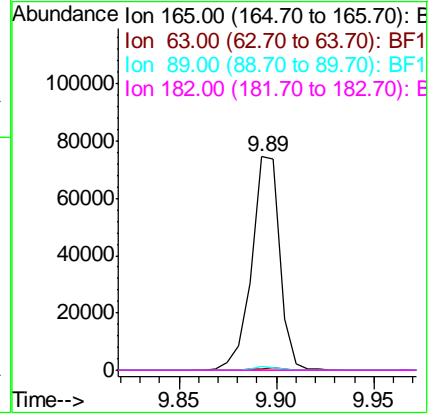
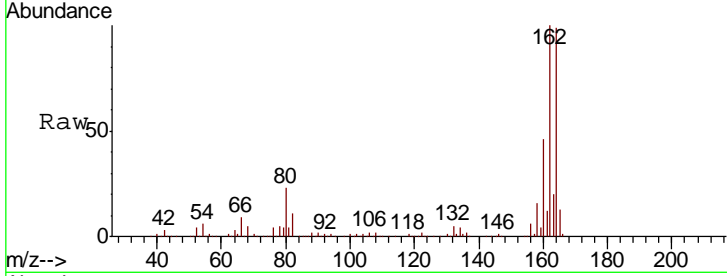




#57  
 2,4-Dinitrotoluene  
 Concen: 14.129 ng  
 RT: 9.89 min Scan# 1327  
 Delta R.T. -0.19 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

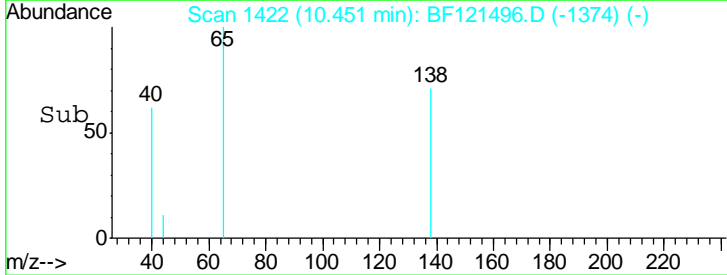
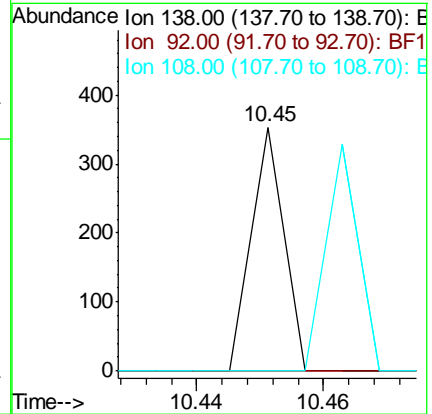
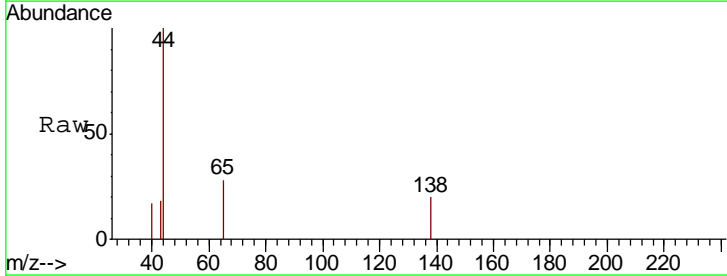
Instrument :  
 BNA\_F  
 ClientSampled :  
 PB131322BL

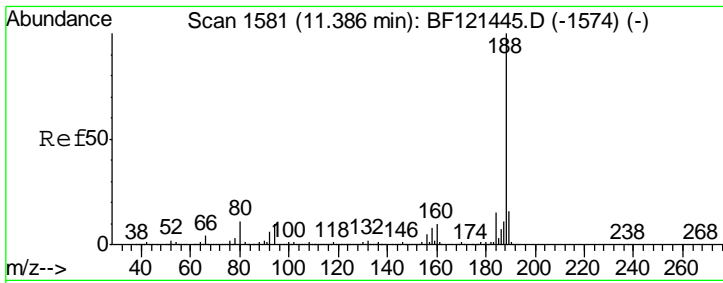
|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 74515      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.9   | 36.0 54.0# |
| 89          | 1.6   | 62.6 93.8# |
| 182         | 0.0   | 2.2 3.2#   |



#62  
 4-Nitroaniline  
 Concen: 4.547 ng  
 RT: 10.45 min Scan# 1422  
 Delta R.T. -0.02 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:138 | Resp: | 125        |
| Ion Ratio   | Lower | Upper      |
| 138         | 100   |            |
| 92          | 0.0   | 33.2 73.2# |
| 108         | 0.0   | 53.6 93.6# |



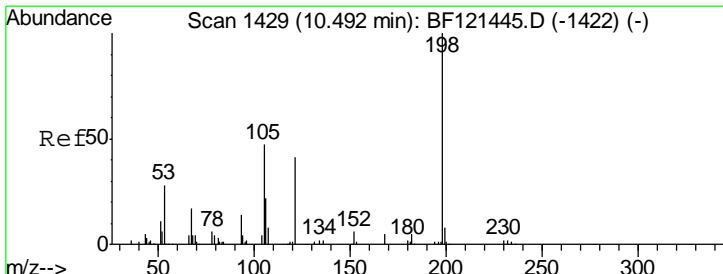
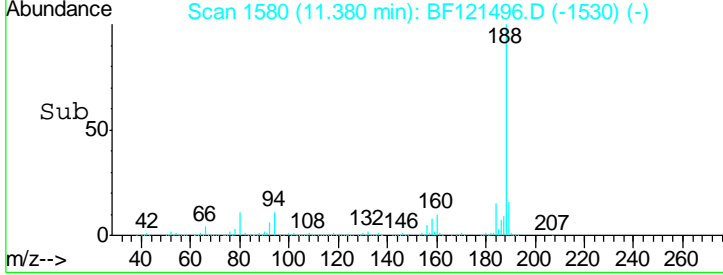
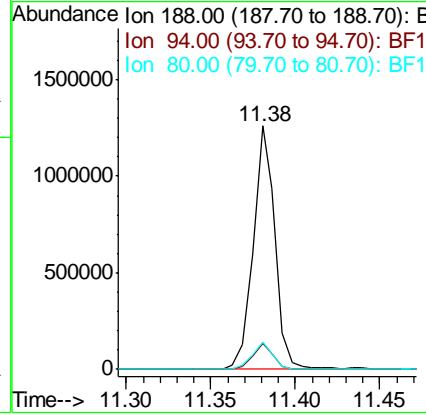
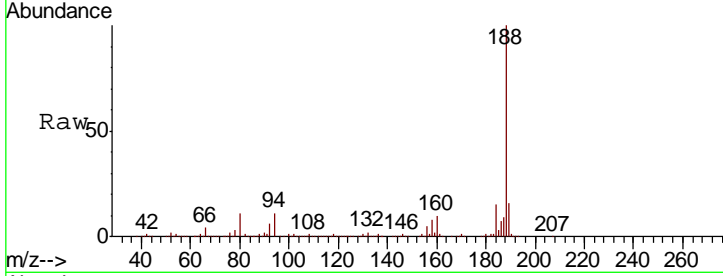


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.38 min Scan# 1580  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

Instrument :  
 BNA\_F  
 ClientSampled :  
 PB131322BL

Tgt Ion:188 Resp: 1135761

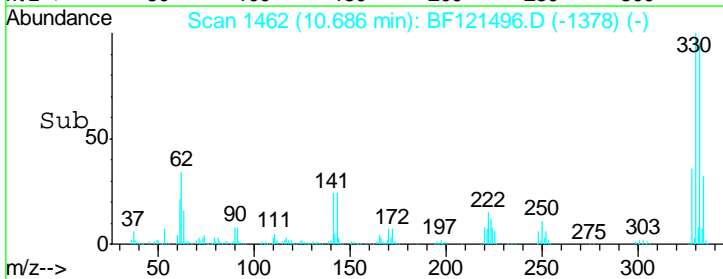
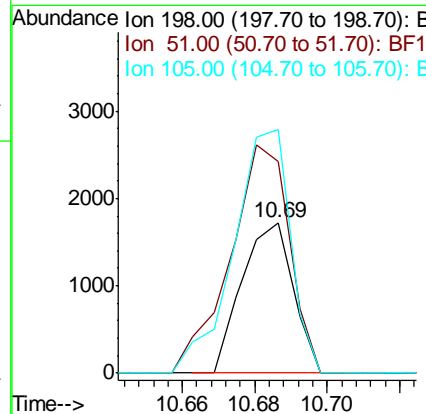
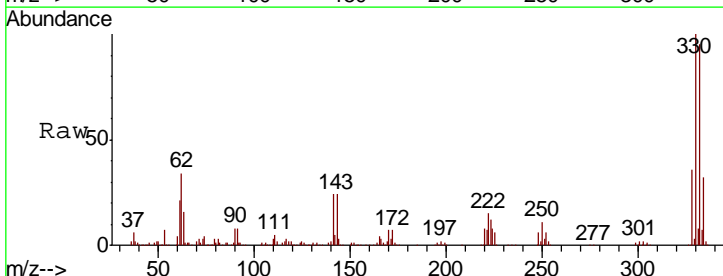
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 10.6  | 8.3   | 12.5  |
| 80  | 11.3  | 8.6   | 13.0  |

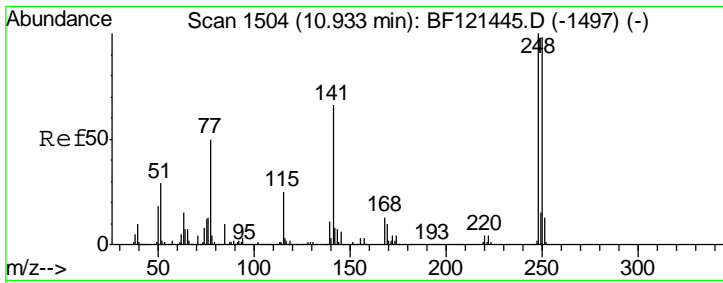


#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 6.282 ng  
 RT: 10.69 min Scan# 1462  
 Delta R.T. 0.19 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

Tgt Ion:198 Resp: 1679

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 198 | 100   |       |       |
| 51  | 140.6 | 29.0  | 69.0# |
| 105 | 162.2 | 29.1  | 69.1# |

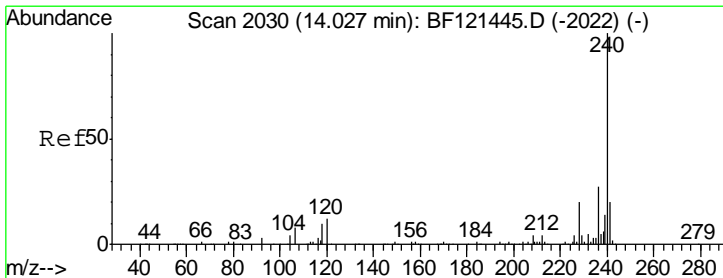
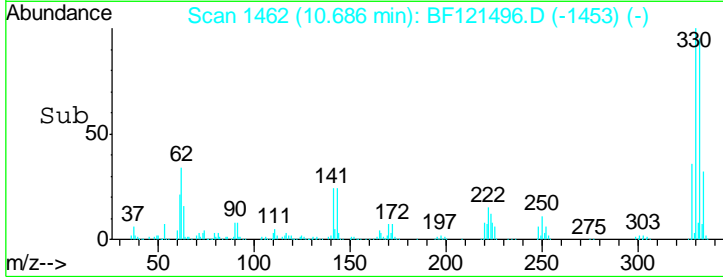
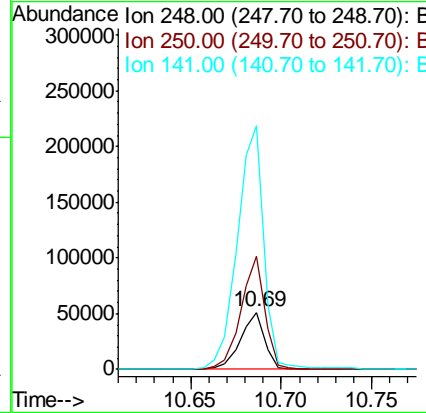
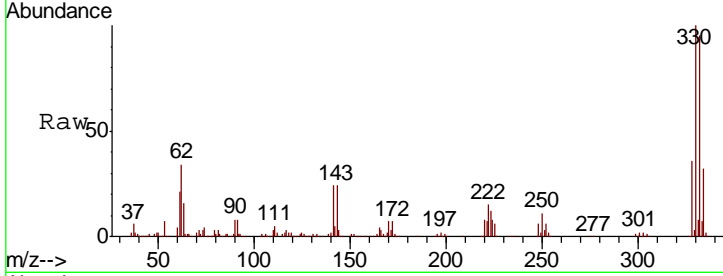




#67  
 4-Bromophenyl-phenylether  
 Concen: 3.759 ng  
 RT: 10.69 min Scan# 1462  
 Delta R.T. -0.25 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

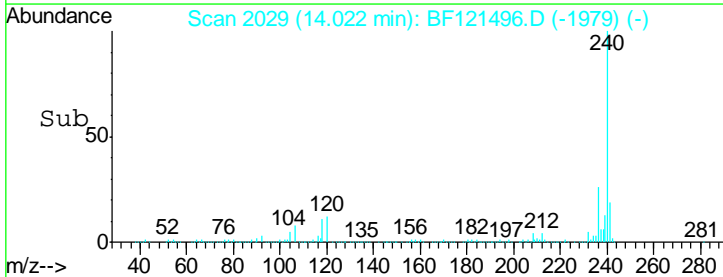
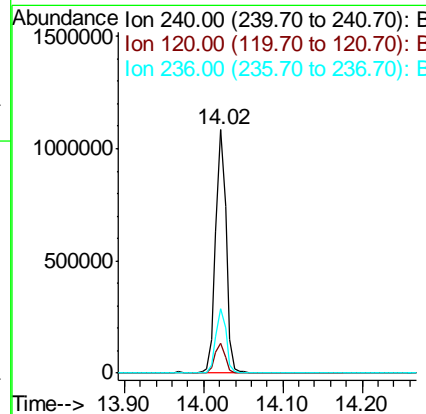
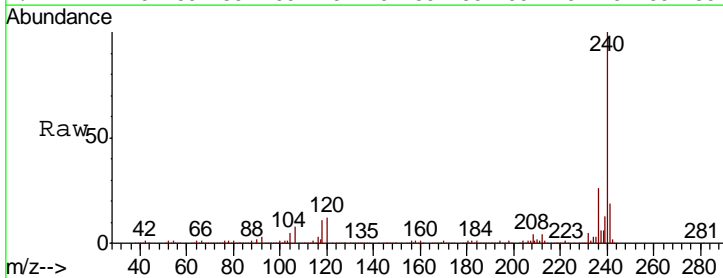
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB131322BL

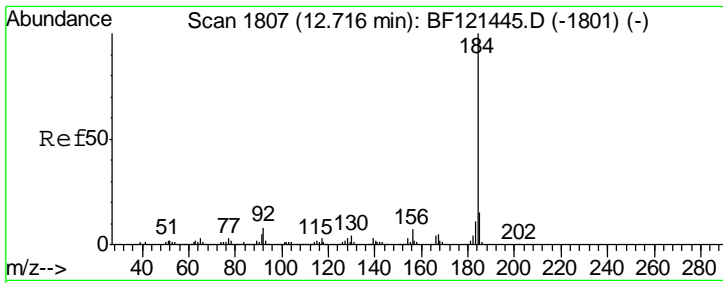
| Tgt Ion | Resp  | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 46971 |       |        |
| 250     | 199.9 | 78.7  | 118.1# |
| 141     | 429.0 | 52.6  | 78.8#  |



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

| Tgt Ion | Resp    | Lower | Upper |
|---------|---------|-------|-------|
| 240     | 1001641 |       |       |
| 120     | 12.3    | 9.5   | 14.3  |
| 236     | 26.4    | 21.8  | 32.6  |



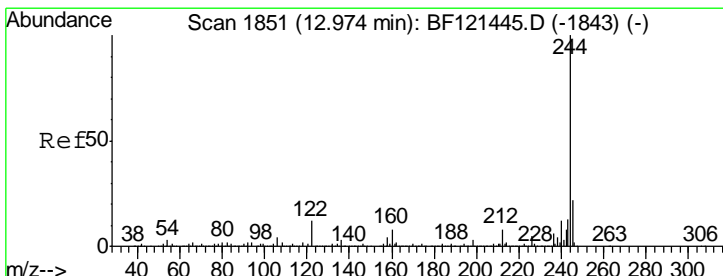
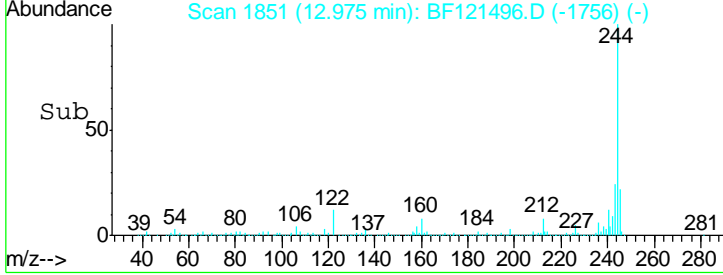
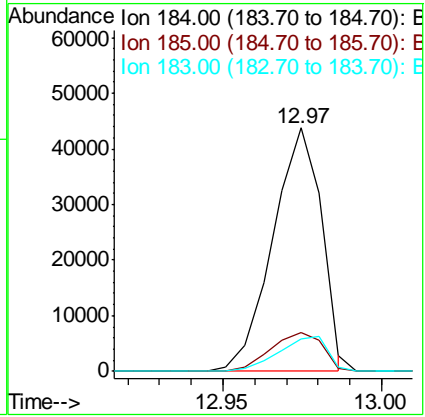
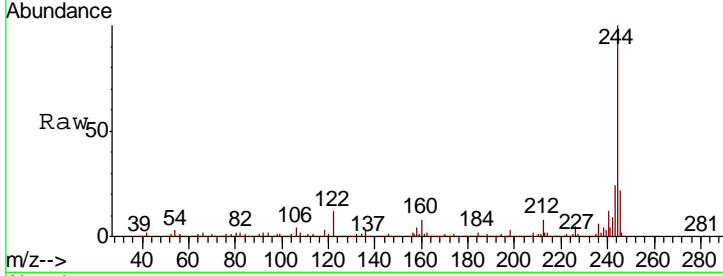


#77  
Benzidine  
Concen: 2.146 ng  
RT: 12.97 min Scan# 1851  
Delta R.T. 0.26 min  
Lab File: BF121496.D  
Acq: 1 Sep 2020 14:47

**Instrument :**  
BNA\_F  
**ClientSampleId :**  
PB131322BL

Tgt Ion:184 Resp: 46869

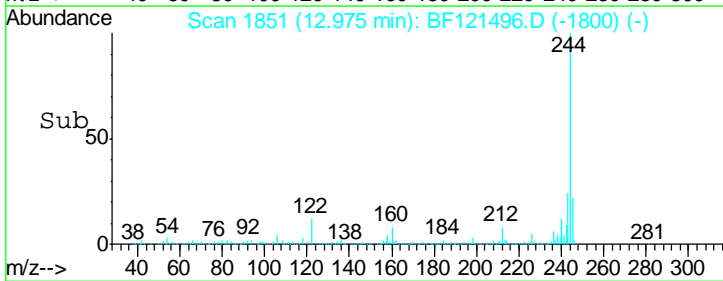
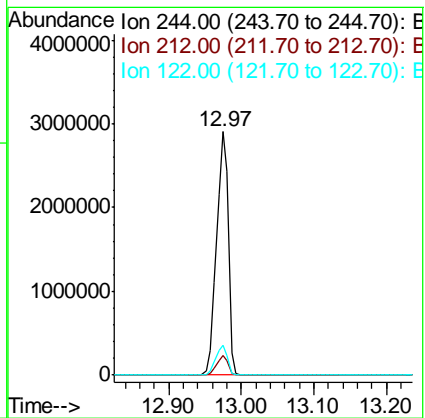
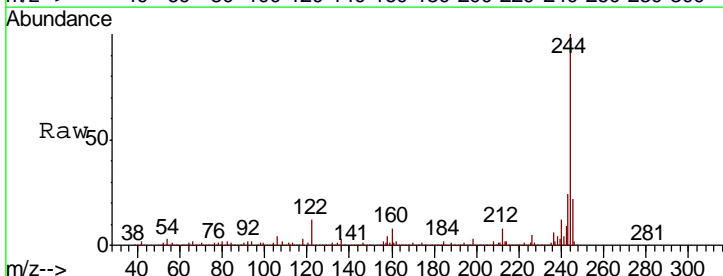
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 184 | 100   |       |       |
| 185 | 16.0  | 12.1  | 18.1  |
| 183 | 13.6  | 8.9   | 13.3# |

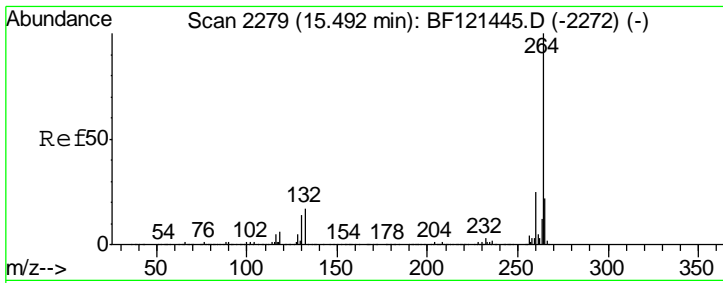


#79  
Terphenyl-d14  
Concen: 68.860 ng  
RT: 12.97 min Scan# 1851  
Delta R.T. 0.00 min  
Lab File: BF121496.D  
Acq: 1 Sep 2020 14:47

Tgt Ion:244 Resp: 3276686

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.9   | 6.3   | 9.5   |
| 122 | 12.4  | 9.5   | 14.3  |





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. 0.01 min  
 Lab File: BF121496.D  
 Acq: 1 Sep 2020 14:47

Instrument :  
 BNA\_F  
 ClientSampleID :  
 PB131322BL

Tot Ion: 264 Resp: 986797

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.1  | 19.6  | 29.4  |
| 265 | 21.5  | 17.8  | 26.6  |

