

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121619\  
 Data File : BF118216.D  
 Acq On : 17 Dec 2019 00:27  
 Operator : JU  
 Sample : K6218-02  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 17 01:08:39 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 06 17:34:43 2019  
 Response via : Initial Calibration

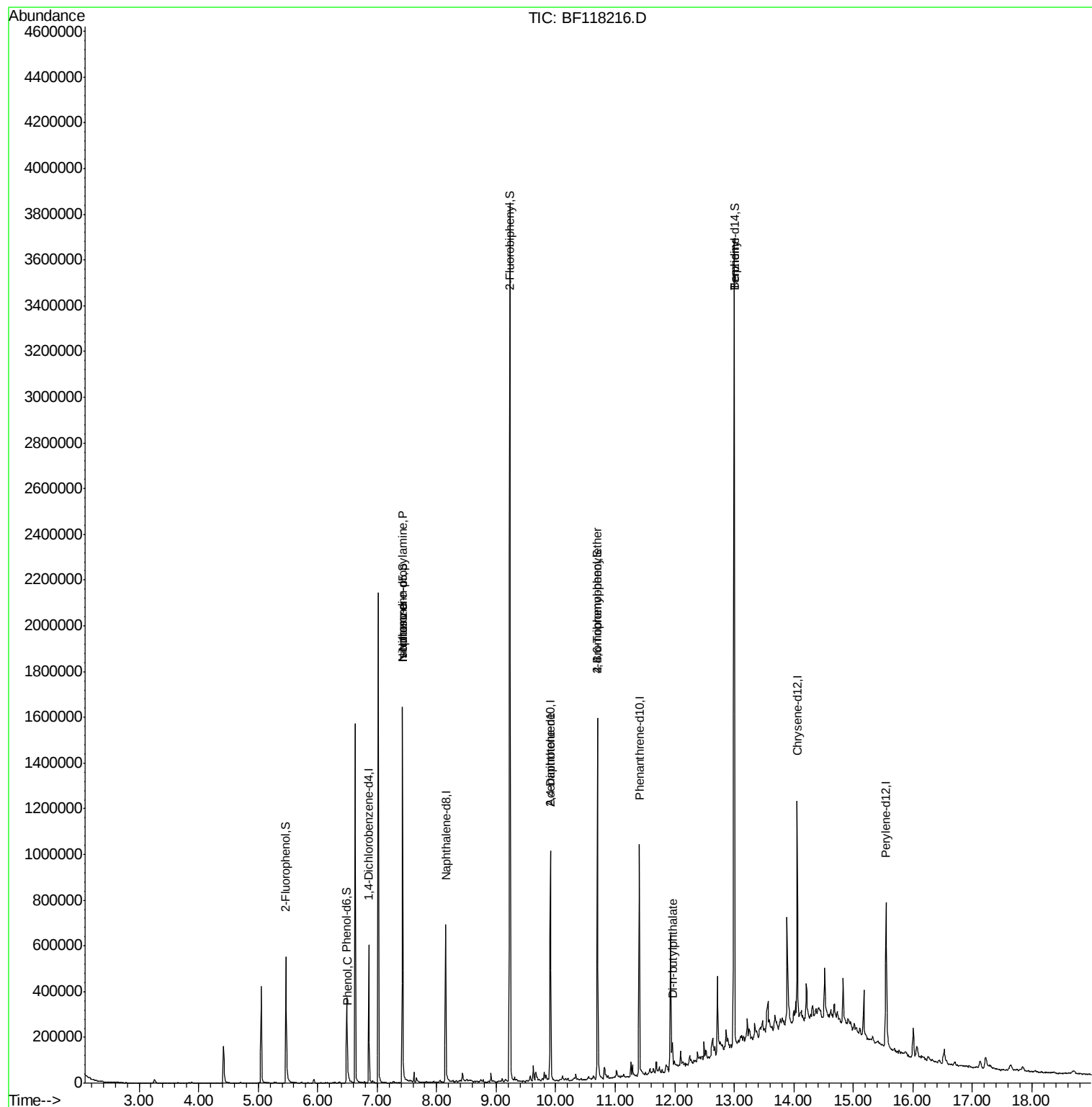
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 91481    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 350560   | 20.00     | ng     | 0.00     |
| 39) Acenaphthene-d10           | 9.91  | 164  | 190457   | 20.00     | ng     | -0.01    |
| 64) Phenanthrene-d10           | 11.40 | 188  | 367475   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 14.06 | 240  | 292950   | 20.00     | ng     | -0.01    |
| 87) Perylene-d12               | 15.54 | 264  | 287425   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 178855   | 34.24     | ng     | -0.01    |
| 7) Phenol-d6                   | 6.49  | 99   | 141076   | 22.33     | ng     | -0.01    |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 496408   | 79.66     | ng     | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 208439   | 90.09     | ng     | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 1098349  | 87.75     | ng     | -0.01    |
| 79) Terphenyl-d14              | 13.00 | 244  | 1192917  | 70.02     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.63  | 77   | 8637     | Below Cal | Qvalue | # 76     |
| 10) Phenol                     | 6.50  | 94   | 15587    | 2.163 ng  |        | 97       |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 68678    | 17.890 ng | #      | 74       |
| 25) Isophorone                 | 7.43  | 82   | 491111   | 46.492 ng | #      | 62       |
| 57) 2,4-Dinitrotoluene         | 9.91  | 165  | 24876    | 6.093 ng  | #      | 26       |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 12828    | 3.058 ng  | #      | 1        |
| 74) Di-n-butylphthalate        | 11.96 | 149  | 45540    | 2.081 ng  |        | 99       |
| 77) Benzidine                  | 13.00 | 184  | 17098    | 2.217 ng  | #      | 91       |

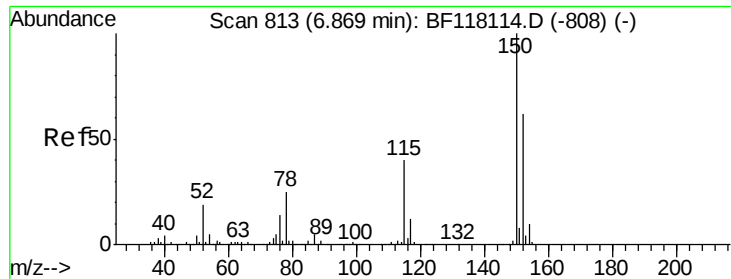
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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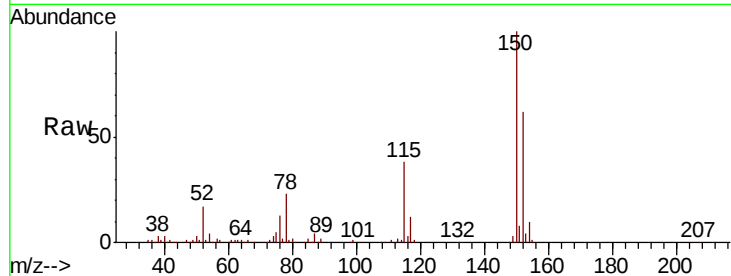


#1

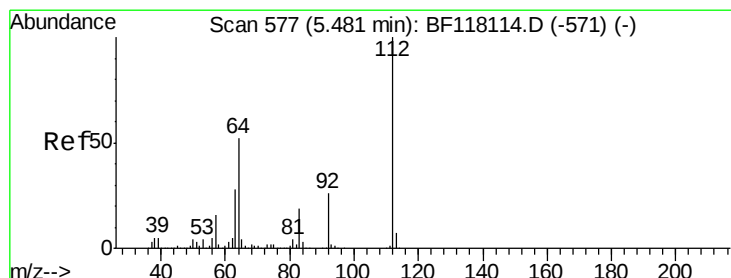
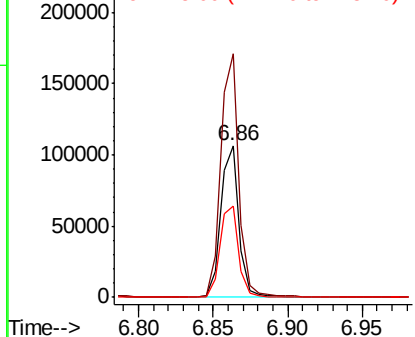
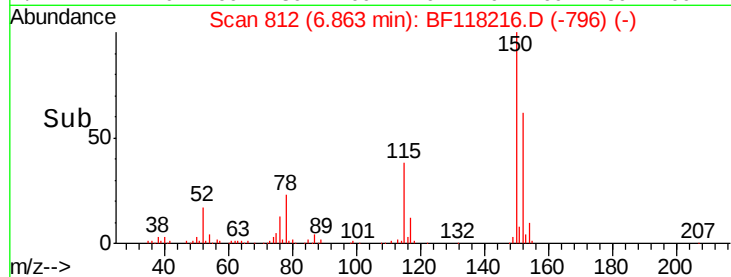
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.3 | 128.3 | 192.5 |
| 115     | 60.3  | 51.1  | 76.7  |



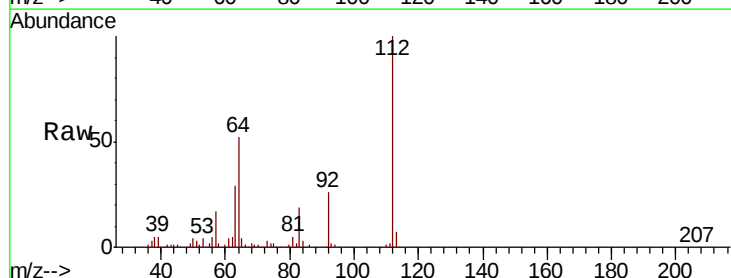
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



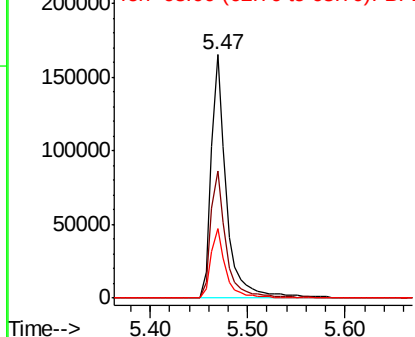
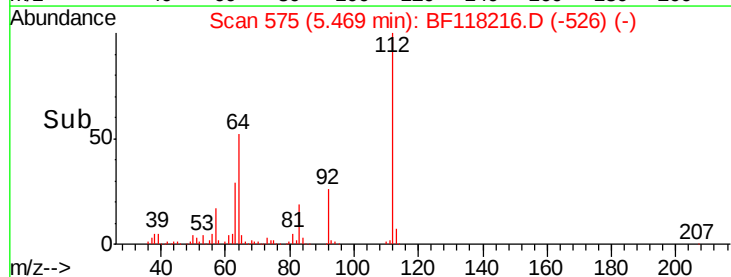
#5

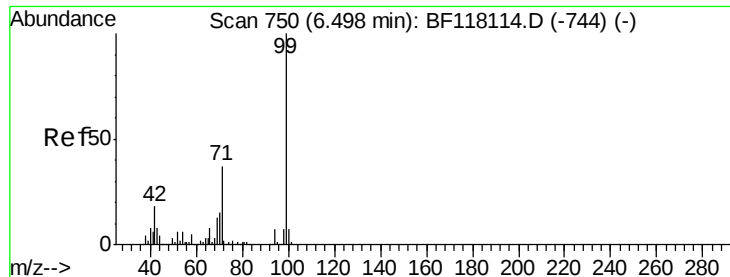
2-Fluorophenol  
Concen: 34.243 ng  
RT: 5.47 min Scan# 575  
Delta R.T. -0.01 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.1  | 41.3  | 61.9  |
| 63      | 28.7  | 22.4  | 33.6  |



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: 22.331 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF118216.D

Acq: 17 Dec 2019 00:27

Instrument :

BNA\_F

ClientSampleId :

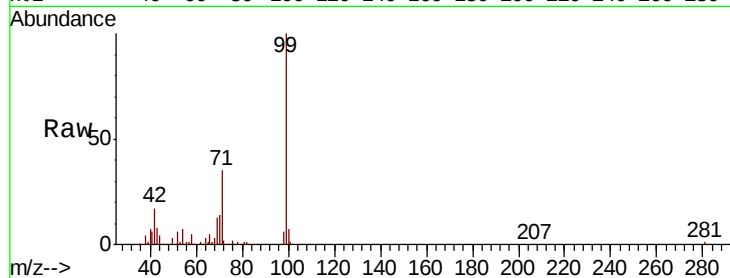
Tot Ion: 99 Resp: 141076

Ion Ratio Lower Upper

99 100

42 16.7 14.1 21.1

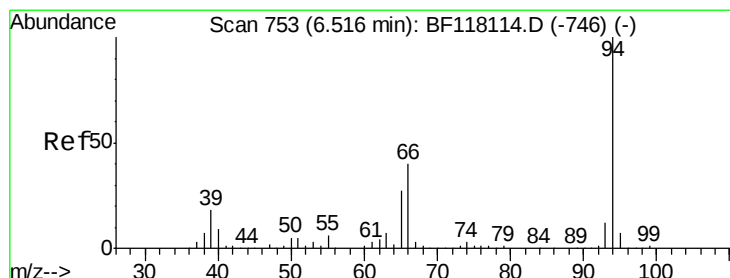
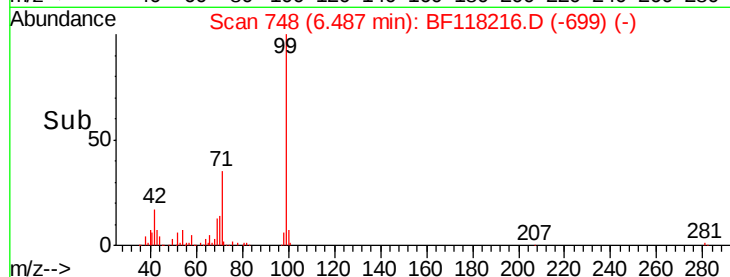
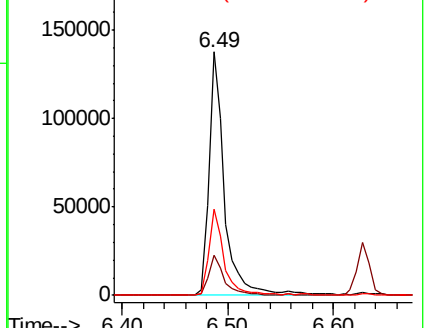
71 35.4 29.7 44.5



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



#10

Phenol

Concen: 2.163 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF118216.D

Acq: 17 Dec 2019 00:27

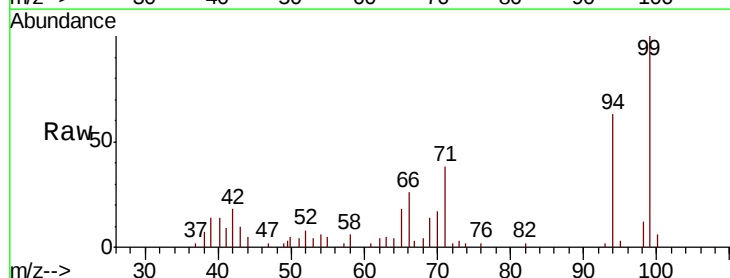
Tgt Ion: 94 Resp: 15587

Ion Ratio Lower Upper

94 100

65 28.9 7.3 47.3

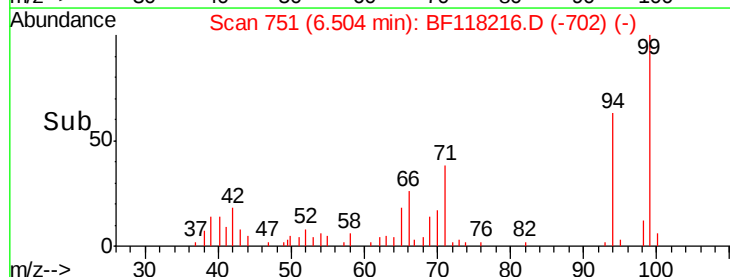
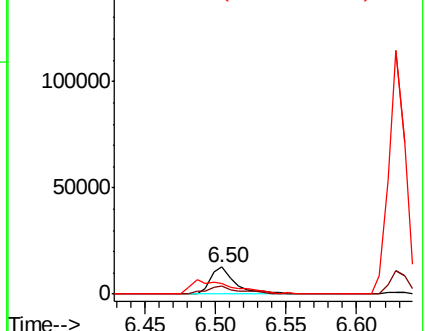
66 41.7 20.2 60.2

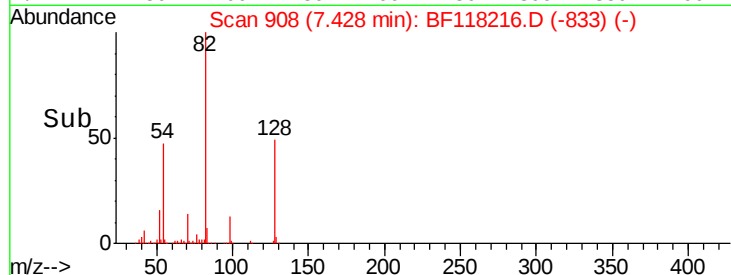
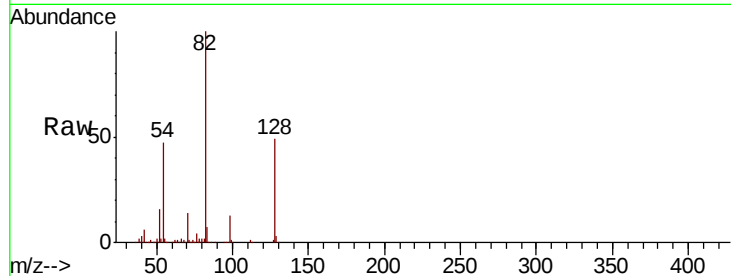
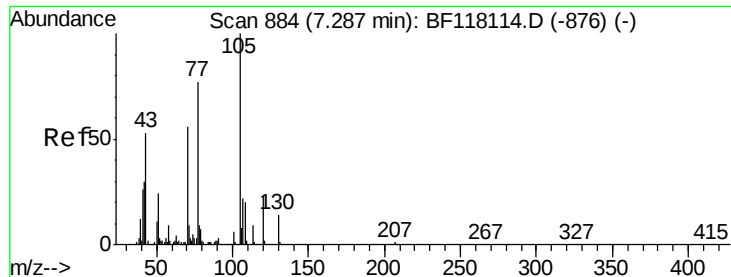


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

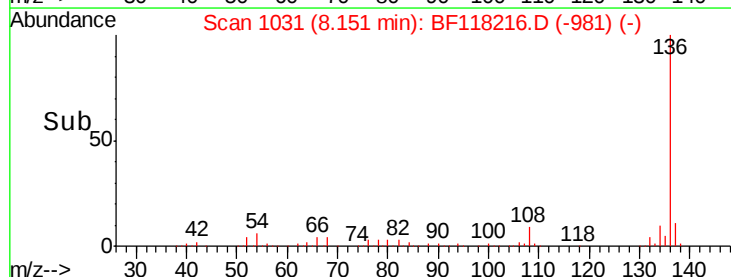
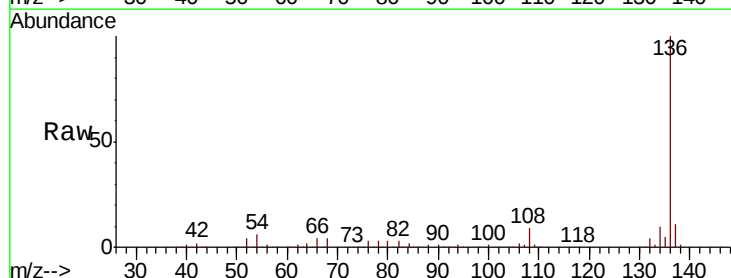
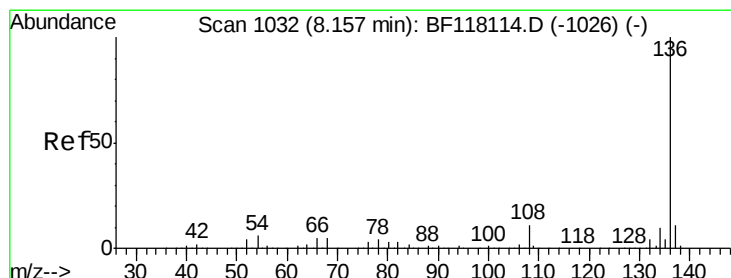
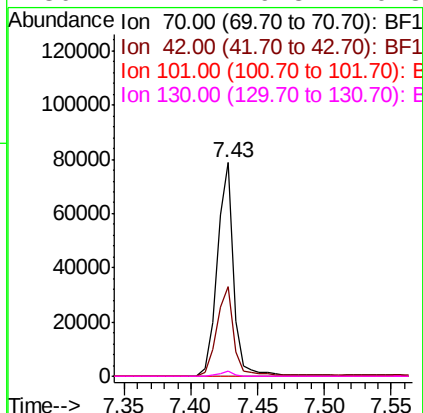




#19  
n-Nitroso-di-n-propylamine  
Concen: 17.890 ng  
RT: 7.43 min Scan# 908  
Delta R.T. 0.14 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

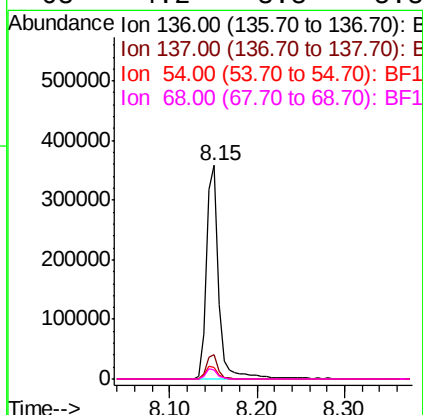
Instrument :  
BNA\_F  
ClientSampleId :

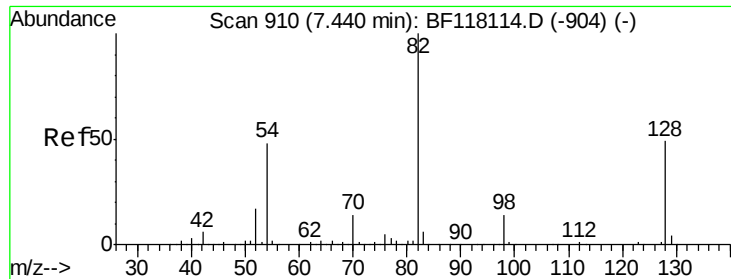
Tot Ion: 70 Resp: 68678  
Ion Ratio Lower Upper  
70 100  
42 41.7 43.2 64.8#  
101 0.0 8.1 12.1#  
130 2.2 19.8 29.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

Tgt Ion: 136 Resp: 350560  
Ion Ratio Lower Upper  
136 100  
137 11.3 9.0 13.6  
54 5.6 5.0 7.6  
68 4.2 3.8 5.8

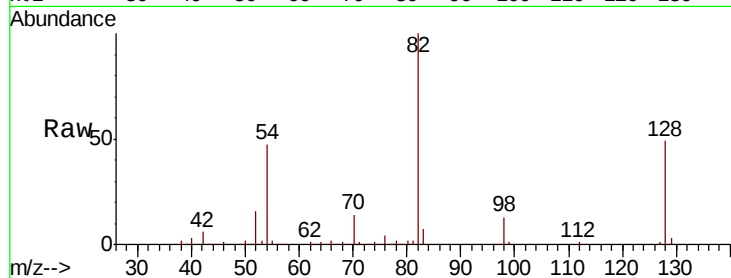




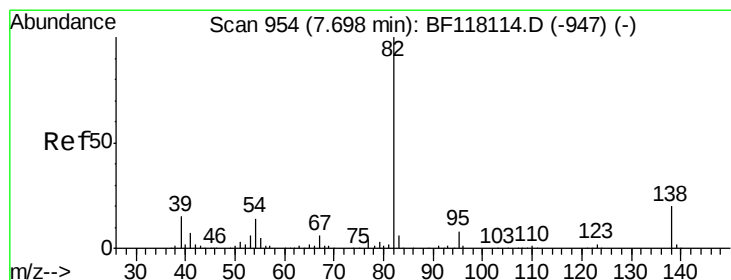
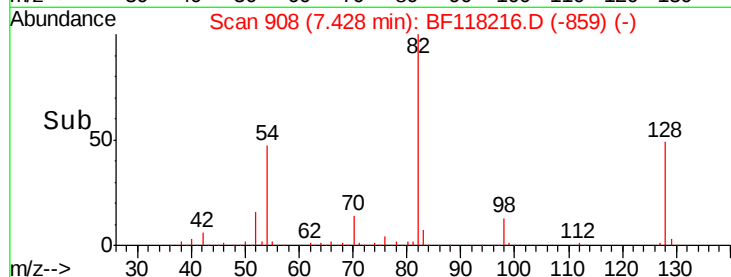
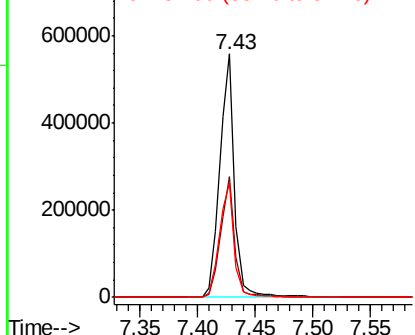
#23  
Nitrobenzene-d5  
Concen: 79.663 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.01 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82    | Resp  | 496408 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 49.4  | 39.1  | 58.7   |
| 54        | 46.7  | 38.2  | 57.2   |

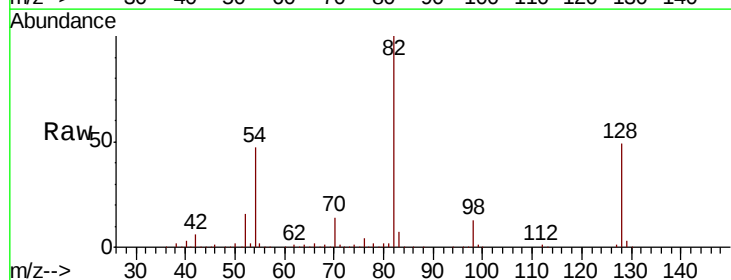


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

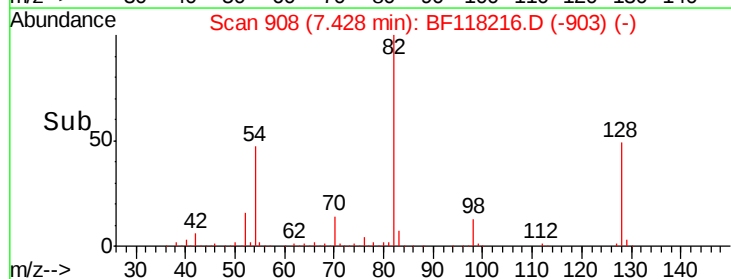
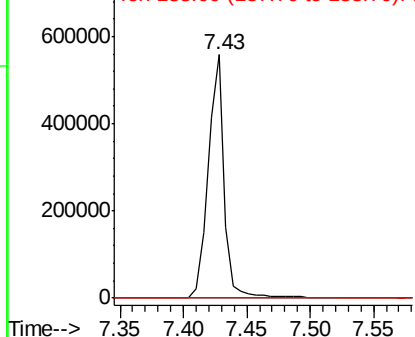


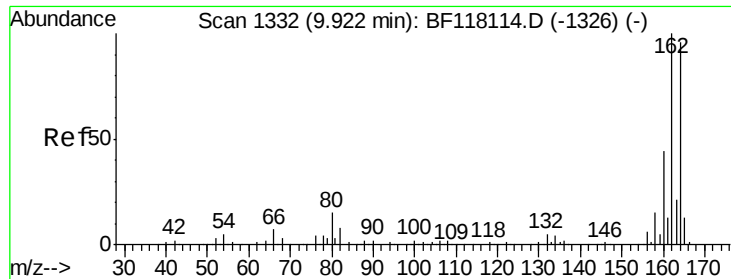
#25  
Isophorone  
Concen: 46.492 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.27 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

| Tgt Ion   | 82    | Resp  | 491111 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 6.3   | 9.5#   |
| 138       | 0.0   | 16.3  | 24.5#  |



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: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF118216.D

Acq: 17 Dec 2019 00:27

Instrument :

BNA\_F

ClientSampleId :

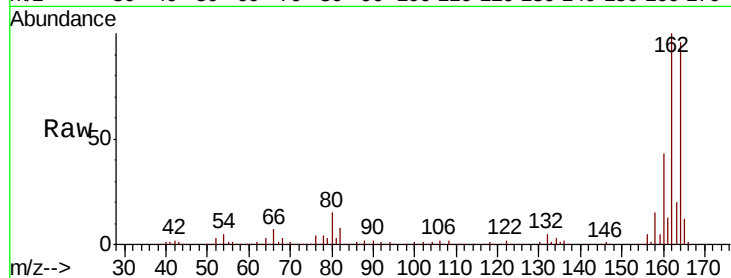
Tot Ion:164 Resp: 190457

Ion Ratio Lower Upper

164 100

162 104.6 83.4 125.0

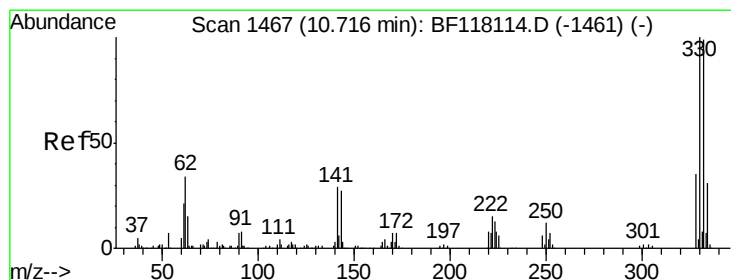
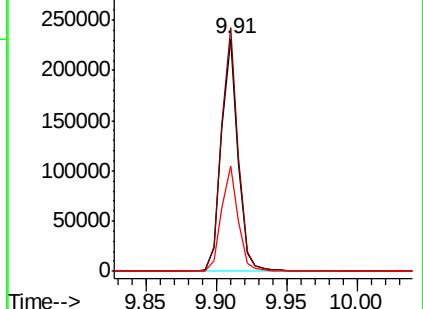
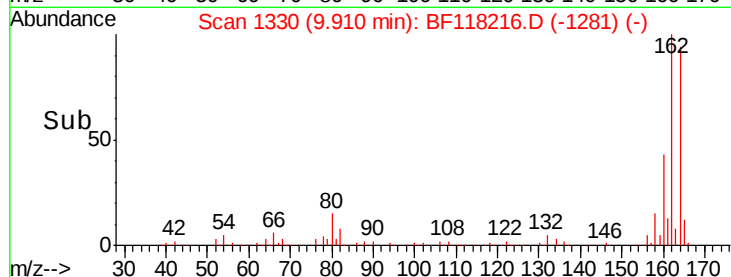
160 45.0 36.6 54.8



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: 90.089 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF118216.D

Acq: 17 Dec 2019 00:27

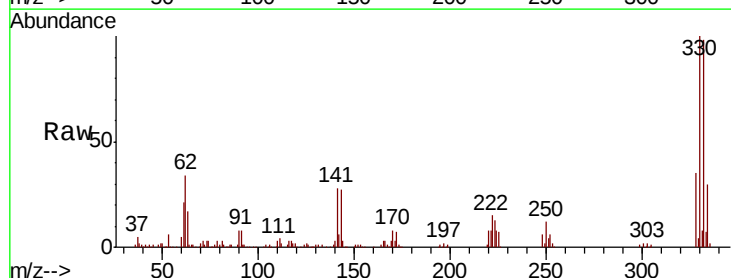
Tgt Ion:330 Resp: 208439

Ion Ratio Lower Upper

330 100

332 97.2 78.1 117.1

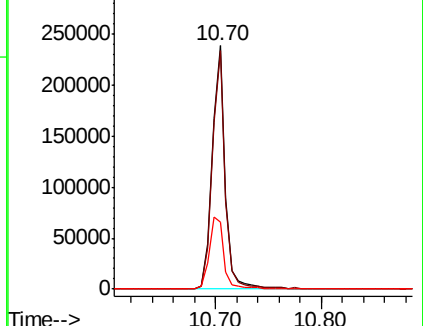
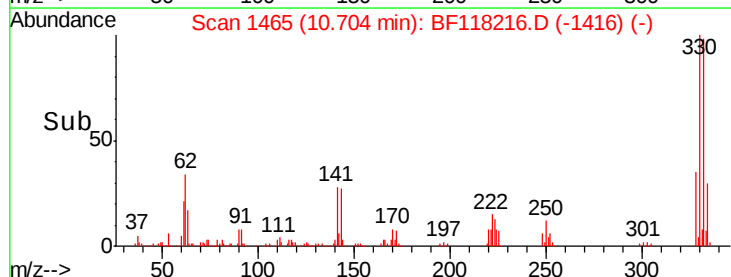
141 33.4 26.9 40.3

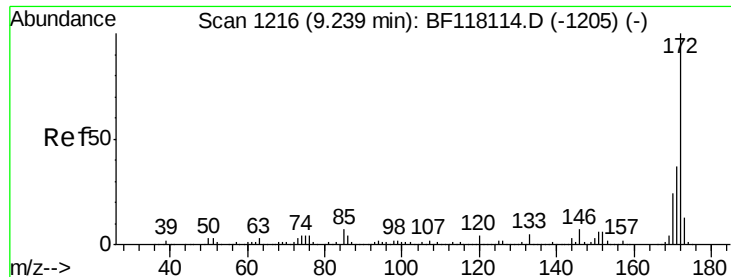


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

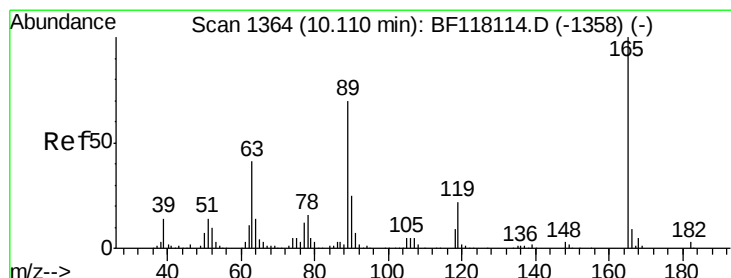
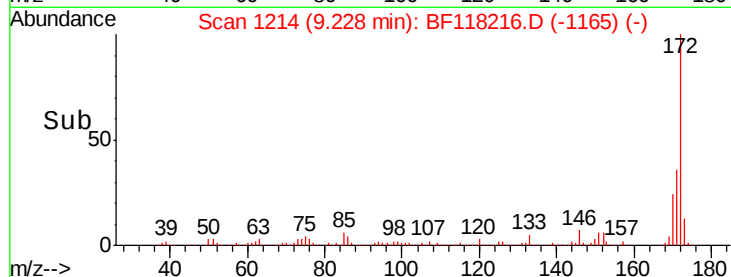
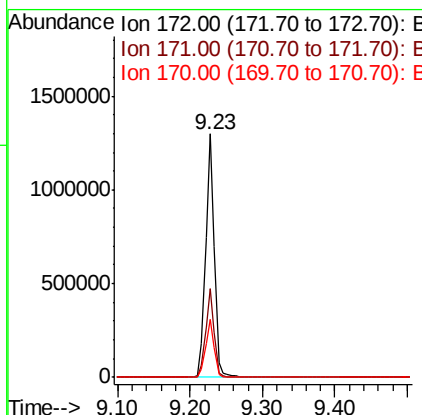
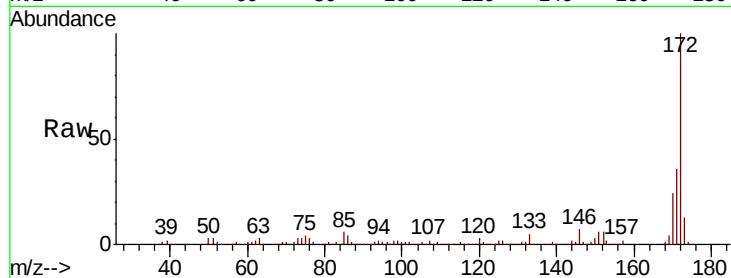




#45  
 2-Fluorobiphenyl  
 Concen: 87.752 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF118216.D  
 Acq: 17 Dec 2019 00:27

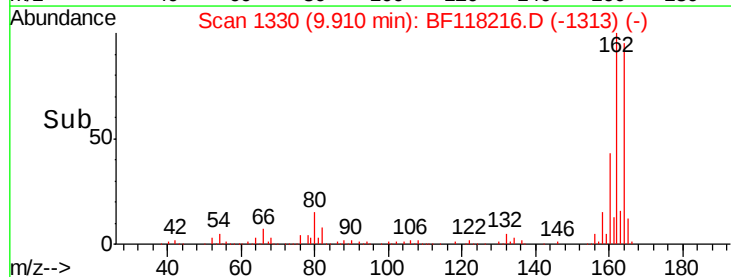
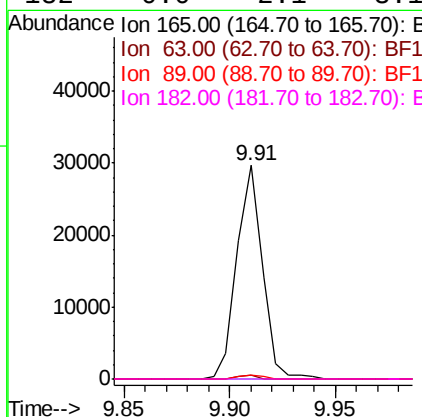
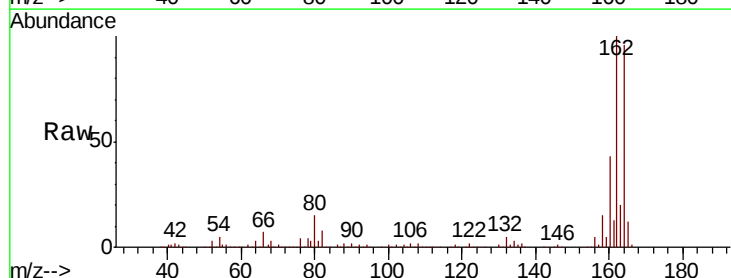
Instrument :  
 BNA\_F  
 ClientSampleId :

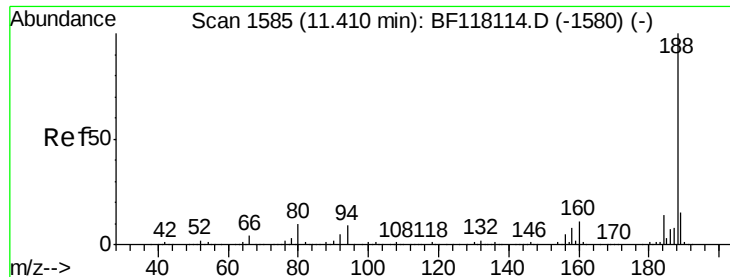
Tot Ion:172 Resp: 1098349  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.2 43.8  
 170 23.9 19.4 29.2



#57  
 2,4-Dinitrotoluene  
 Concen: 6.093 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. -0.20 min  
 Lab File: BF118216.D  
 Acq: 17 Dec 2019 00:27

Tgt Ion:165 Resp: 24876  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 32.6 49.0#  
 89 1.6 56.1 84.1#  
 182 0.0 2.1 3.1#

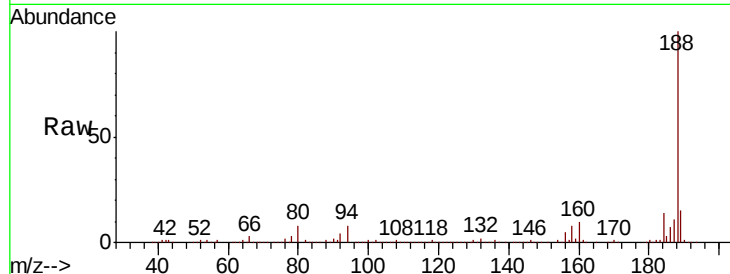




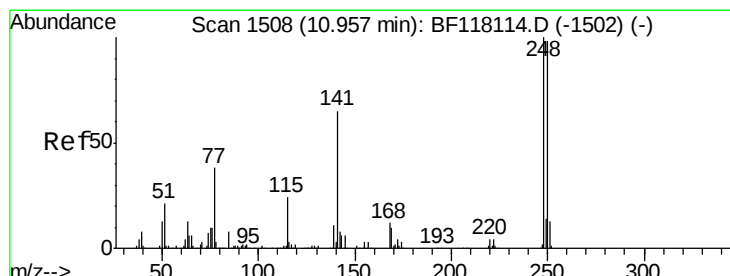
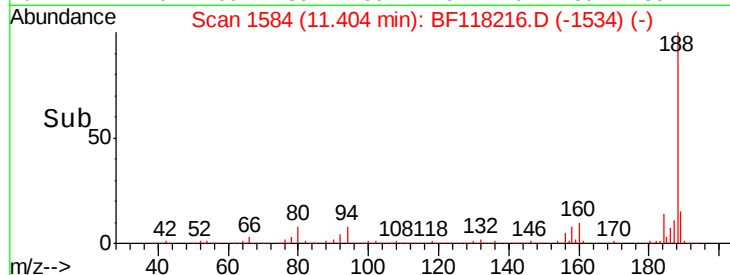
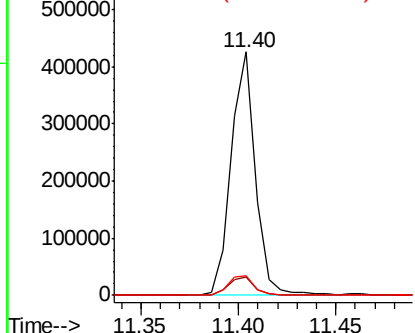
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF118216.D  
 Acq: 17 Dec 2019 00:27

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:188 Resp: 367475  
 Ion Ratio Lower Upper  
 188 100  
 94 7.7 7.1 10.7  
 80 7.8 7.9 11.9#

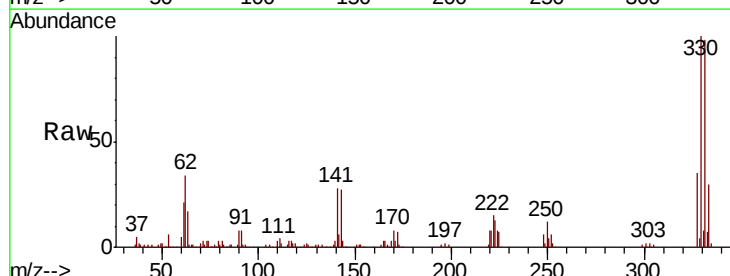


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

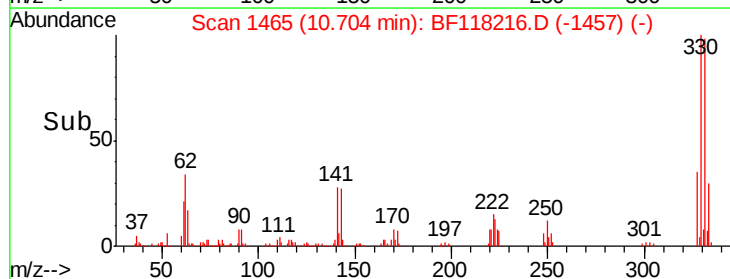
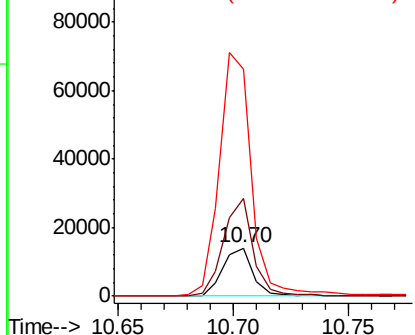


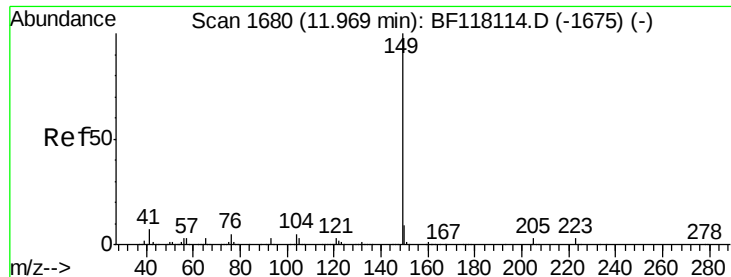
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.058 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.25 min  
 Lab File: BF118216.D  
 Acq: 17 Dec 2019 00:27

Tgt Ion:248 Resp: 12828  
 Ion Ratio Lower Upper  
 248 100  
 250 204.1 78.3 117.5#  
 141 470.0 52.2 78.4#



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

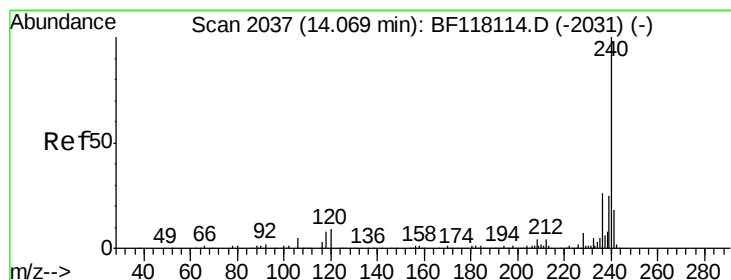
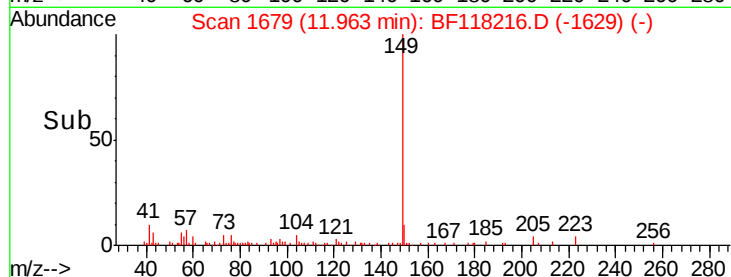
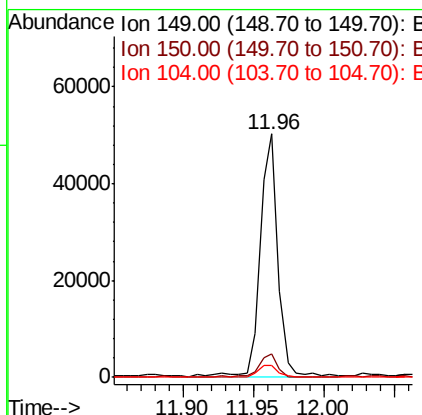
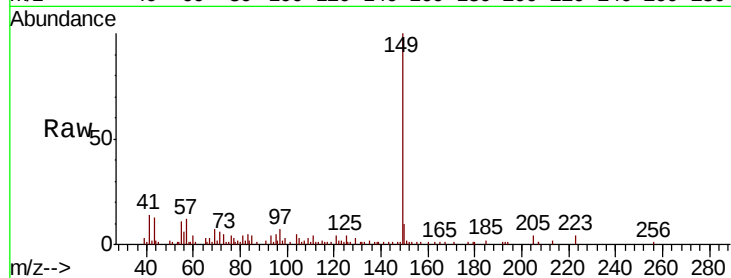




#74  
Di-n-butylphthalate  
Concen: 2.081 ng  
RT: 11.96 min Scan# 1679  
Delta R.T. -0.01 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

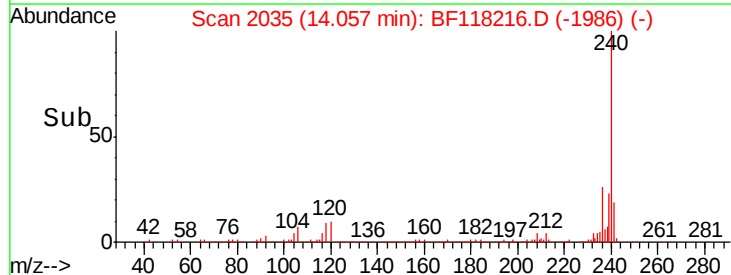
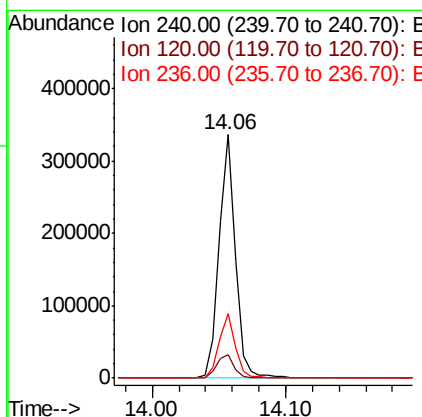
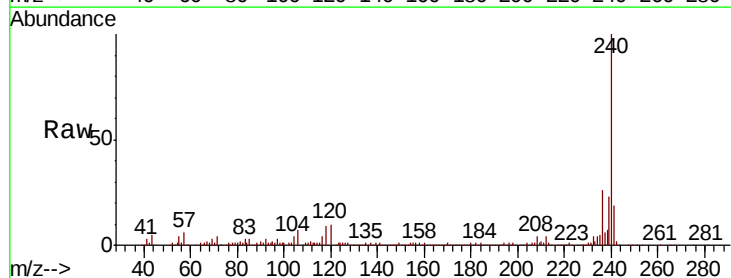
Instrument :  
BNA\_F  
ClientSampleId :

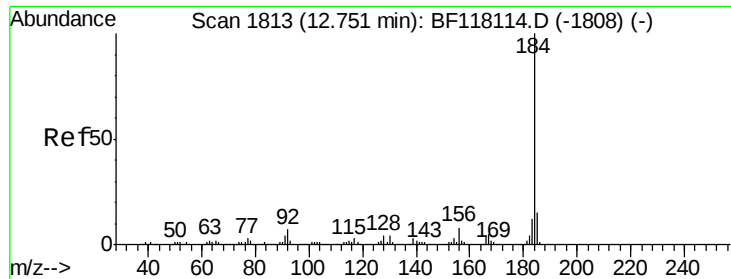
Tot Ion:149 Resp: 45540  
Ion Ratio Lower Upper  
149 100  
150 9.7 7.4 11.2  
104 5.0 4.3 6.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.01 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

Tgt Ion:240 Resp: 292950  
Ion Ratio Lower Upper  
240 100  
120 9.8 7.1 10.7  
236 26.5 21.0 31.6





#77

Benzidine

Concen: 2.217 ng

RT: 13.00 min Scan# 1855

Delta R.T. 0.25 min

Lab File: BF118216.D

Acq: 17 Dec 2019 00:27

Instrument :

BNA\_F

ClientSampleId :

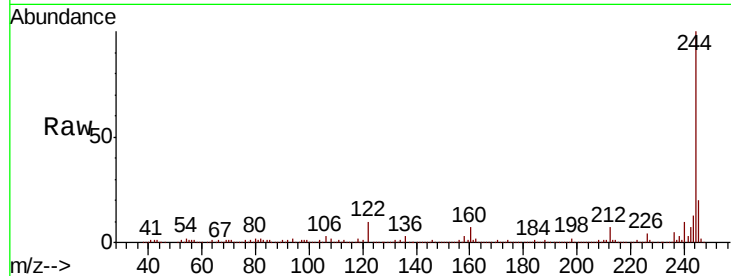
Tot Ion:184 Resp: 17098

Ion Ratio Lower Upper

184 100

185 19.5 12.3 18.5#

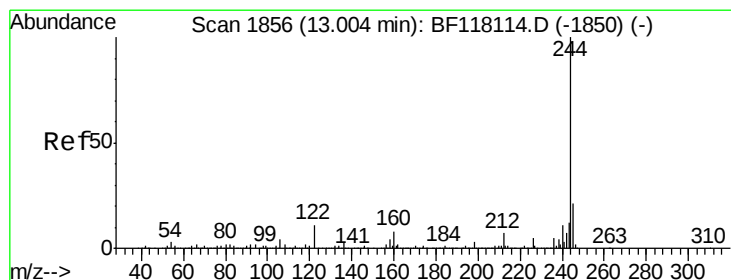
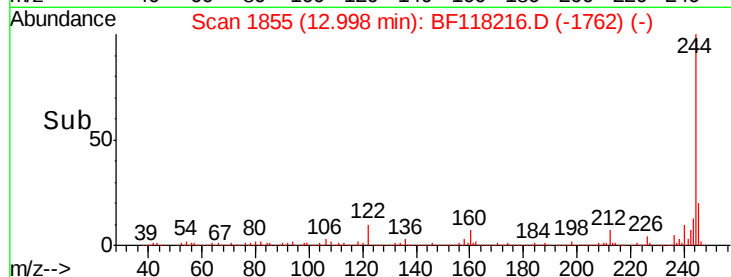
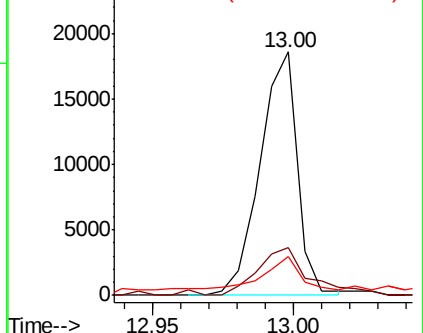
183 15.8 9.9 14.9#



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: 70.025 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.01 min

Lab File: BF118216.D

Acq: 17 Dec 2019 00:27

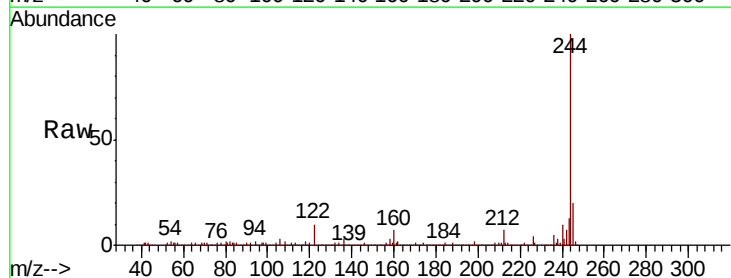
Tgt Ion:244 Resp: 1192917

Ion Ratio Lower Upper

244 100

212 6.9 5.9 8.9

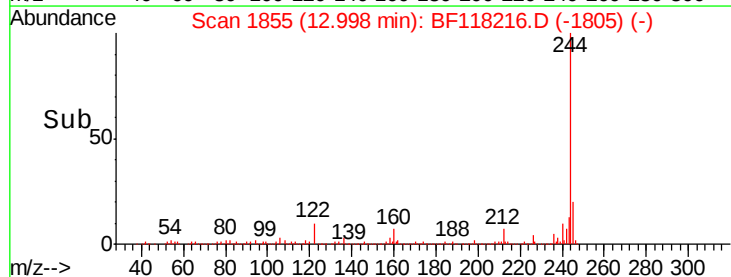
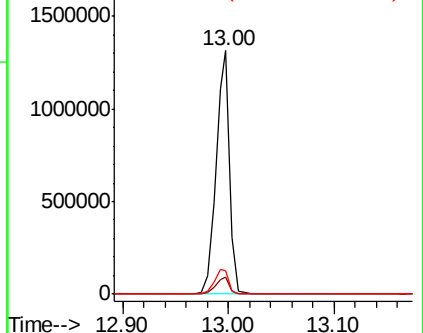
122 9.6 9.0 13.6

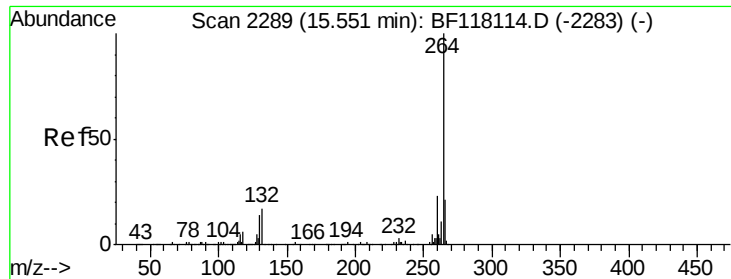


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.54 min Scan# 2288  
Delta R.T. -0.01 min  
Lab File: BF118216.D  
Acq: 17 Dec 2019 00:27

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 18.6  | 28.0  |
| 265     | 20.6  | 16.8  | 25.2  |

