

Data Path : Z:\HPCHEM1\BNA F\DATA\BF043018\  
 Data File : BF104933.D  
 Acq On : 30 Apr 2018 15:27  
 Operator : JU/SJ  
 Sample : J2522-01DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 30 16:17:12 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 30 15:20:08 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.79  | 152  | 122389   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.07  | 136  | 505149   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.83  | 164  | 231581   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.32 | 188  | 385119   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.97 | 240  | 245044   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.44 | 264  | 224833   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.41  | 112  | 107330   | 13.41 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 193817   | 19.71 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 119126   | 15.40 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 9495     | 3.95  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 252919   | 17.25 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.90 | 244  | 203447   | 18.93 | ng    | -0.01    |

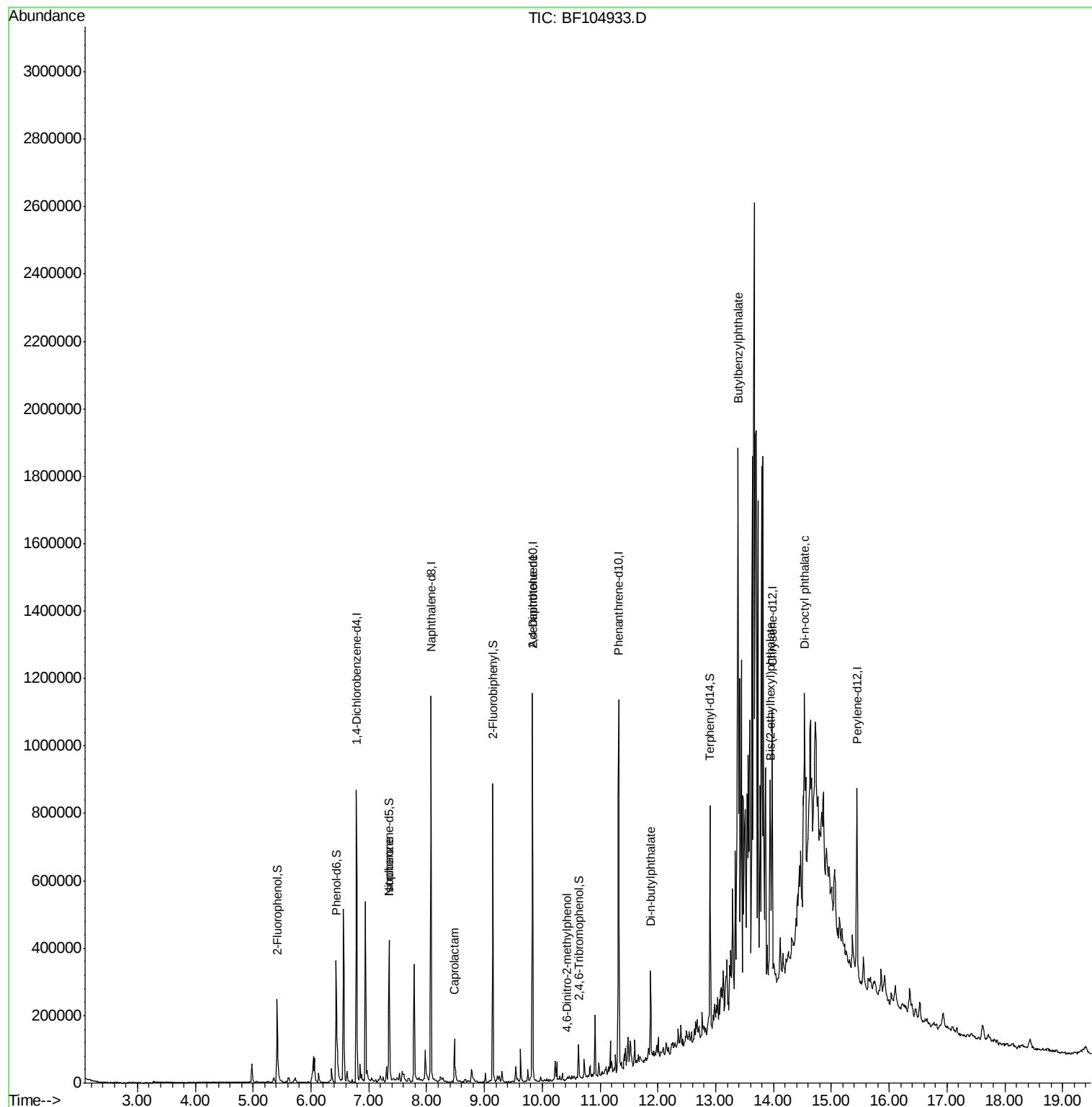
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.35  | 77   | 1429     | Below Cal |       | 98     |
| 25) Isophorone                 | 7.35  | 82   | 119125   | 7.282 ng  | #     | 64     |
| 35) Caprolactam                | 8.48  | 113  | 18115    | 7.538 ng  | #     | 78     |
| 56) 2,4-Dinitrotoluene         | 9.83  | 165  | 29767    | 6.716 ng  | #     | 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.43 | 198  | 266      | 7.467 ng  | #     | 17     |
| 73) Di-n-butylphthalate        | 11.87 | 149  | 126753   | 4.871 ng  |       | 99     |
| 76) Benzidine                  | 12.66 | 184  | 129      | Below Cal | #     | 1      |
| 79) Butylbenzylphthalate       | 13.39 | 149  | 568844   | 66.476 ng | #     | 83     |
| 83) Bis(2-ethylhexyl)phthalate | 13.95 | 149  | 408890   | 37.150 ng | #     | 59     |
| 84) Di-n-octyl phthalate       | 14.53 | 149  | 401714   | 21.843 ng | #     | 71     |

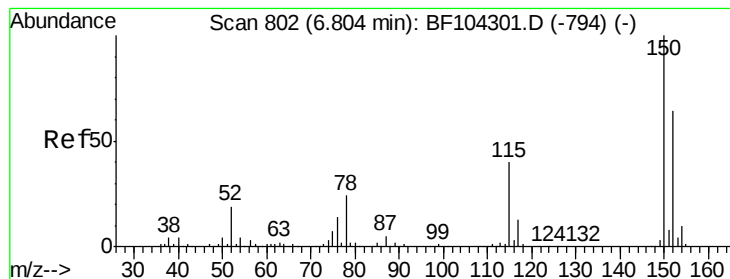
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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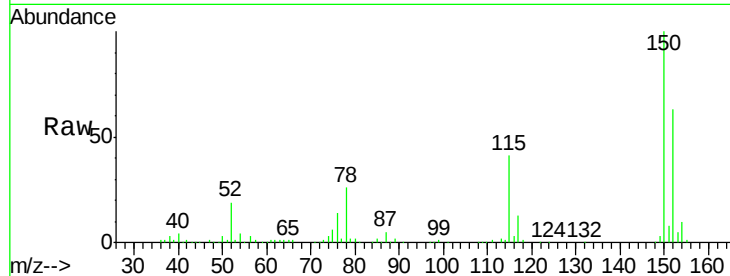


#1

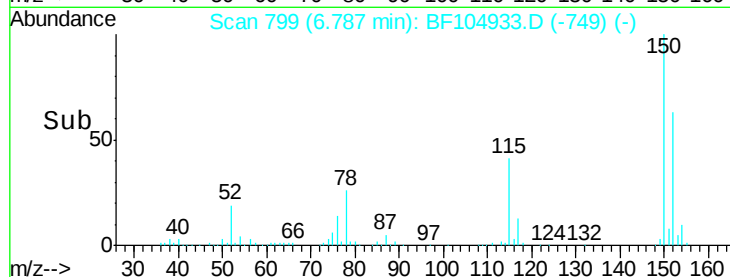
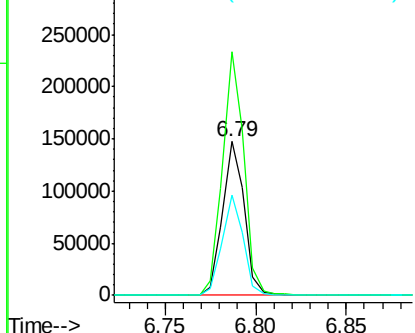
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.01 min  
Lab File: BF104933.D  
Acq: 30 Apr 2018 15:27

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.3 | 124.6 | 186.8 |
| 115     | 64.9  | 50.1  | 75.1  |



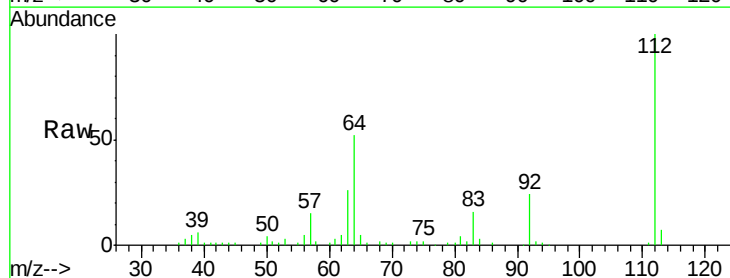
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



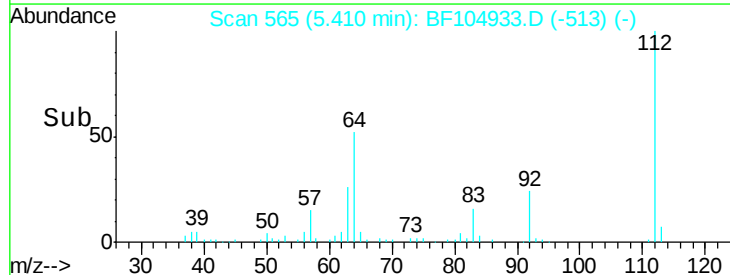
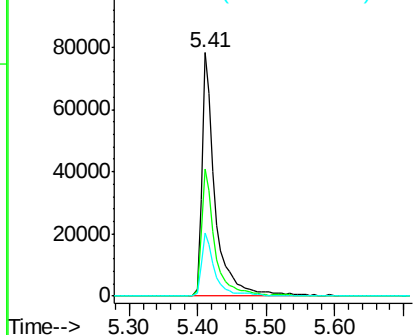
#5

2-Fluorophenol  
Concen: 13.409 ng  
RT: 5.41 min Scan# 565  
Delta R.T. 0.01 min  
Lab File: BF104933.D  
Acq: 30 Apr 2018 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.4  | 47.9  | 71.9  |
| 63      | 25.9  | 23.7  | 35.5  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 19.708 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104933.D

Acq: 30 Apr 2018 15:27

Instrument :

BNA\_F

ClientSampleId :

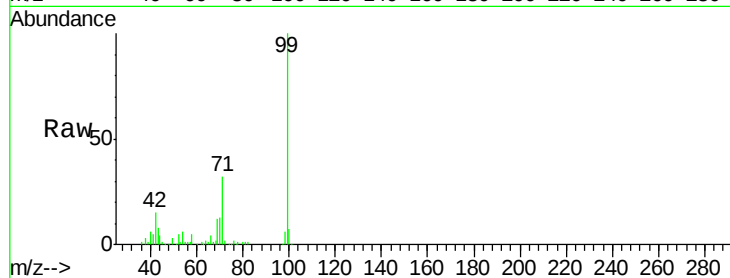
Tot Ion: 99 Resp: 193817

Ion Ratio Lower Upper

99 100

42 14.5 14.5 21.7

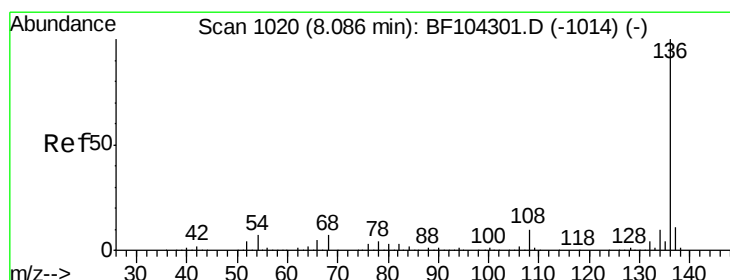
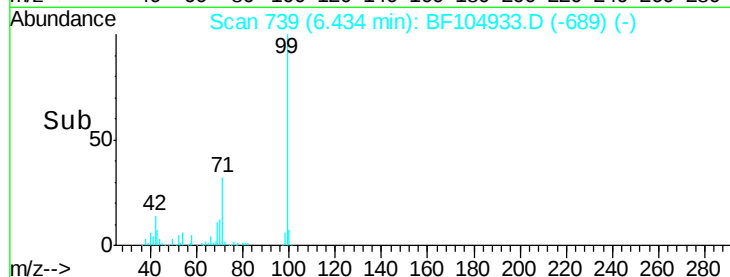
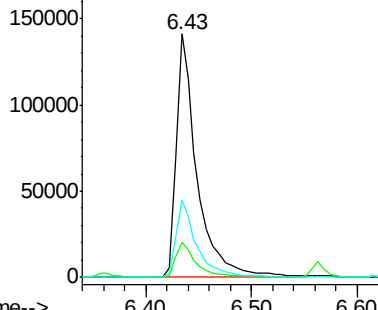
71 32.0 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF104933.D

Acq: 30 Apr 2018 15:27

Tgt Ion: 136 Resp: 505149

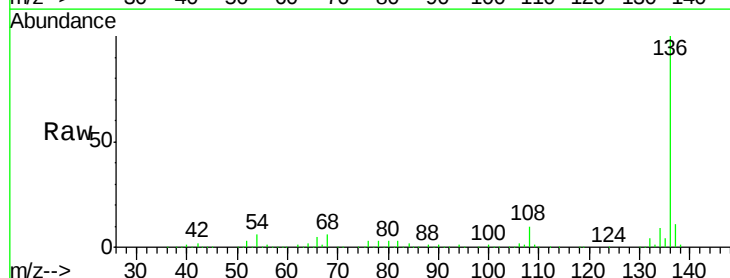
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 6.5 6.6 9.8#

68 5.7 5.0 7.4

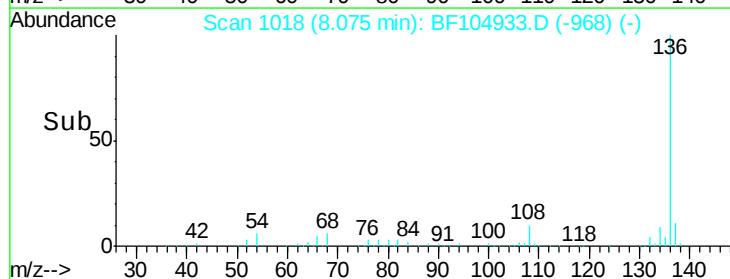
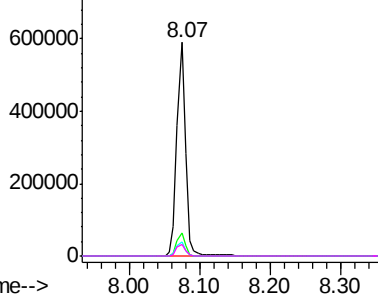


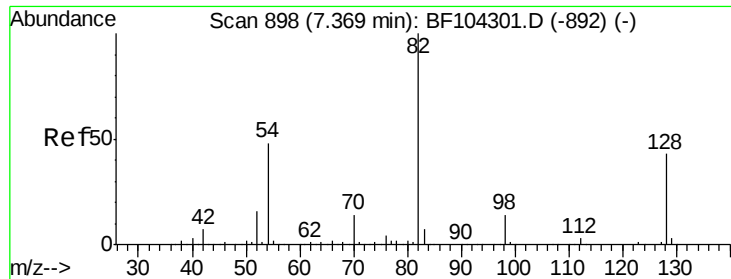
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

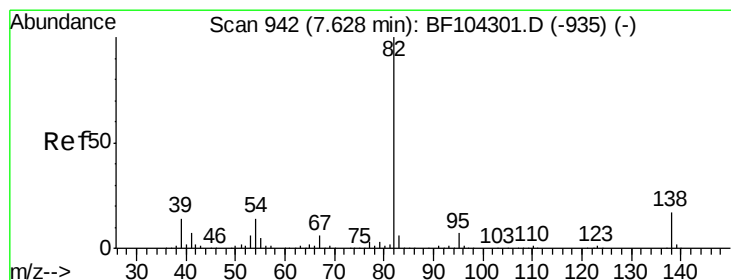
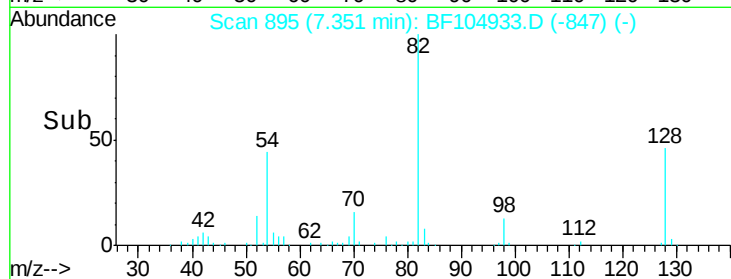
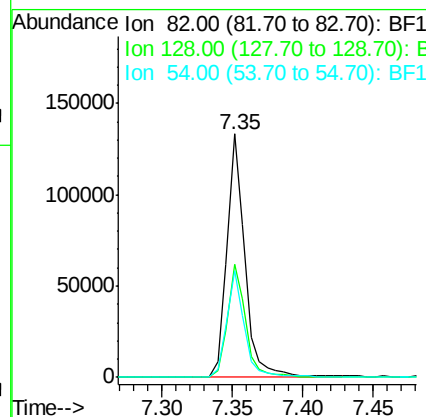
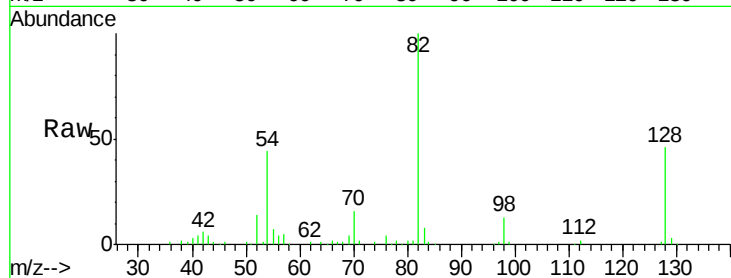




#23  
 Nitrobenzene-d5  
 Concen: 15.399 ng  
 RT: 7.35 min Scan# 895  
 Delta R.T. -0.02 min  
 Lab File: BF104933.D  
 Acq: 30 Apr 2018 15:27

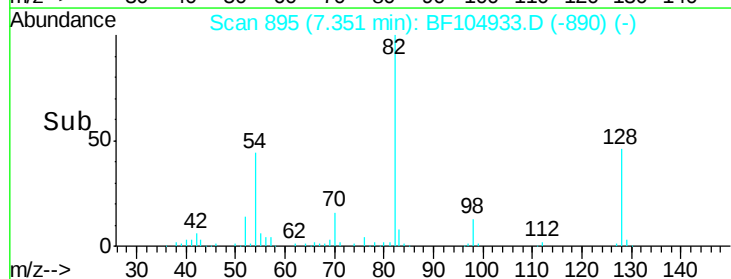
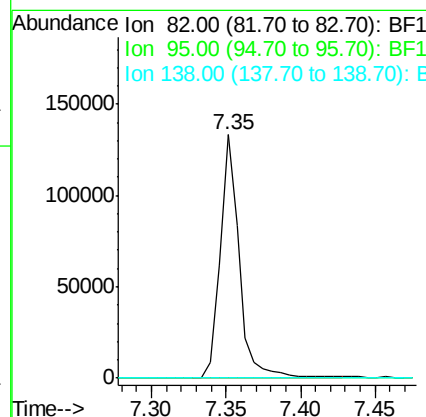
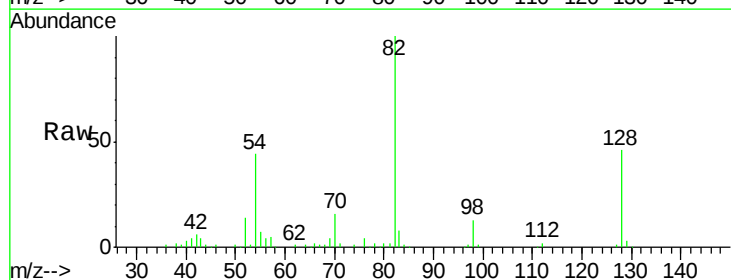
Instrument :  
 BNA\_F  
 ClientSampleId :

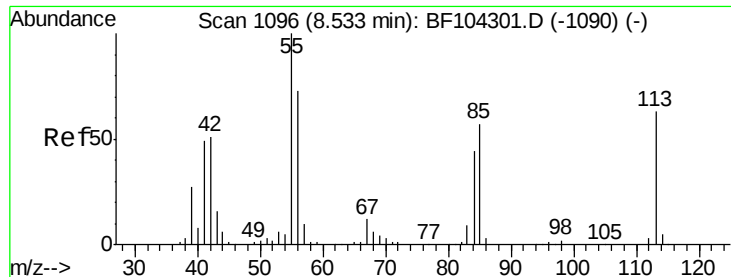
| Tot Ion   | 82    | Resp  | 119126 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 46.3  | 36.1  | 54.1   |
| 54        | 44.0  | 41.4  | 62.2   |



#25  
 Isophorone  
 Concen: 7.282 ng  
 RT: 7.35 min Scan# 895  
 Delta R.T. -0.27 min  
 Lab File: BF104933.D  
 Acq: 30 Apr 2018 15:27

| Tgt Ion   | 82    | Resp  | 119125 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.2   | 7.8#   |
| 138       | 0.0   | 14.9  | 22.3#  |

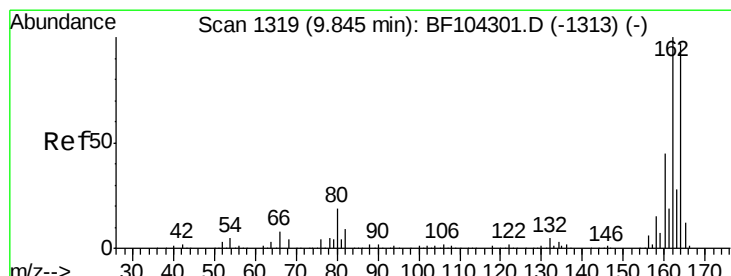
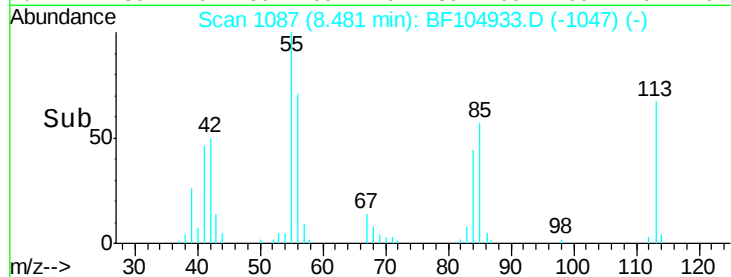
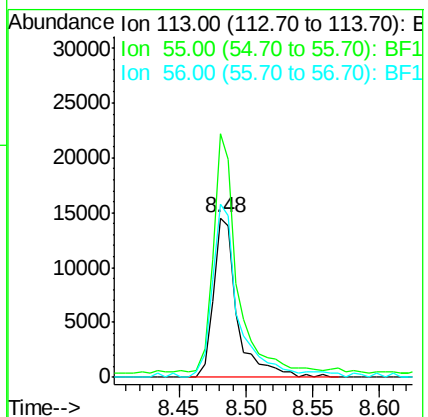
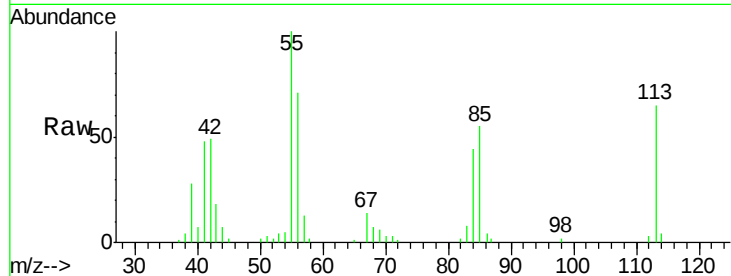




#35  
 Caprolactam  
 Concen: 7.538 ng  
 RT: 8.48 min Scan# 1087  
 Delta R.T. -0.06 min  
 Lab File: BF104933.D  
 Acq: 30 Apr 2018 15:27

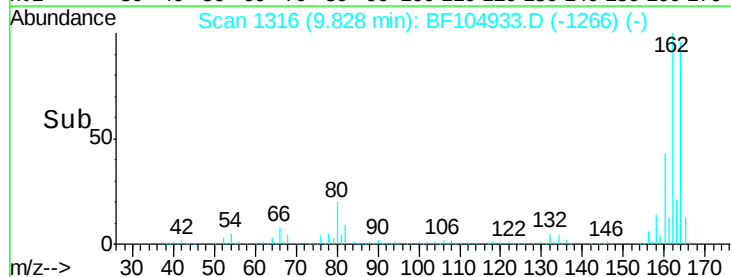
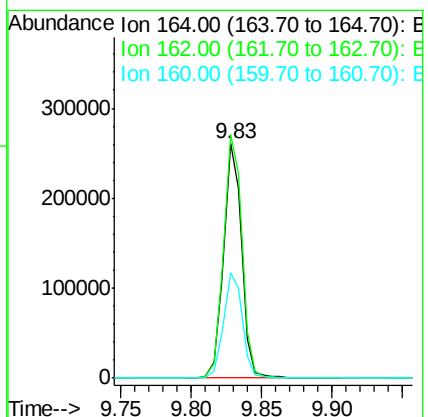
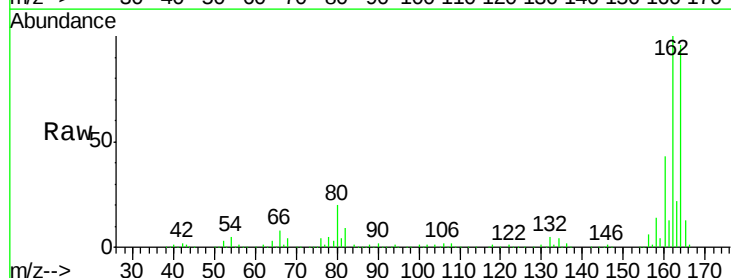
Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:113 Resp: 18115  
 Ion Ratio Lower Upper  
 113 100  
 55 152.8 163.3 203.3#  
 56 108.7 115.7 155.7#



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. -0.01 min  
 Lab File: BF104933.D  
 Acq: 30 Apr 2018 15:27

Tgt Ion:164 Resp: 231581  
 Ion Ratio Lower Upper  
 164 100  
 162 103.8 86.1 129.1  
 160 45.0 38.3 57.5

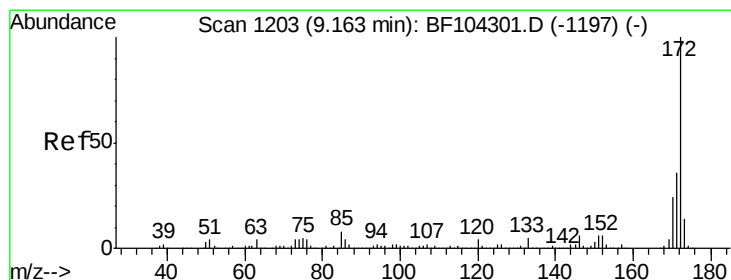
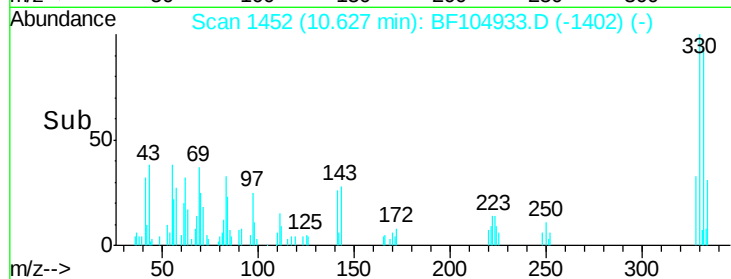
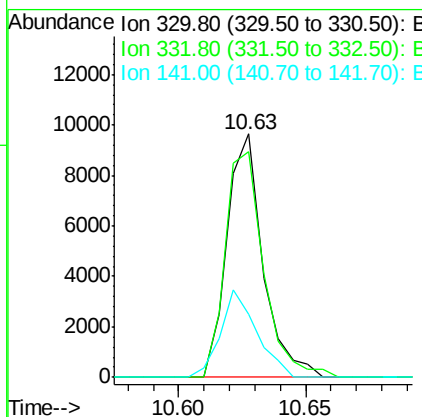
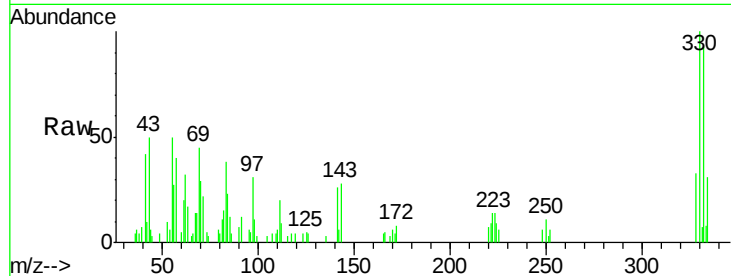




#41  
 2,4,6-Tribromophenol  
 Concen: 3.953 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.01 min  
 Lab File: BF104933.D  
 Acq: 30 Apr 2018 15:27

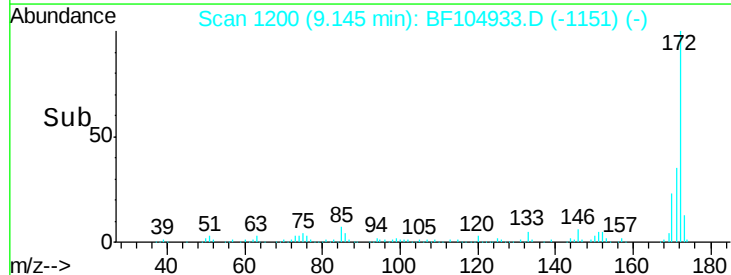
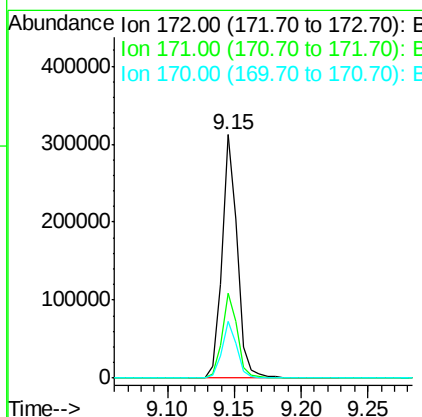
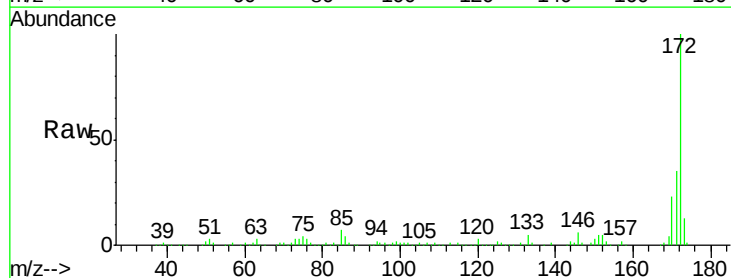
Instrument :  
 BNA\_F  
 ClientSampleId :

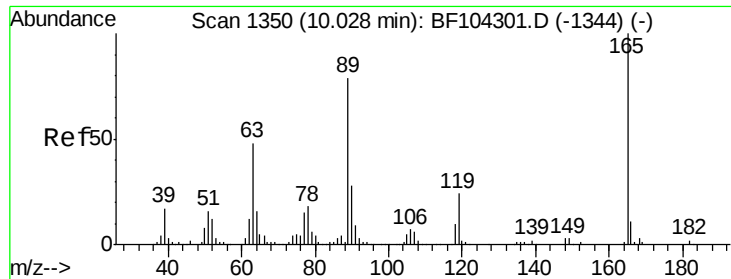
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 99.5  | 77.0  | 115.6 |
| 141     | 36.3  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 17.253 ng  
 RT: 9.15 min Scan# 1200  
 Delta R.T. -0.01 min  
 Lab File: BF104933.D  
 Acq: 30 Apr 2018 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.0  | 29.7  | 44.5  |
| 170     | 23.4  | 19.6  | 29.4  |

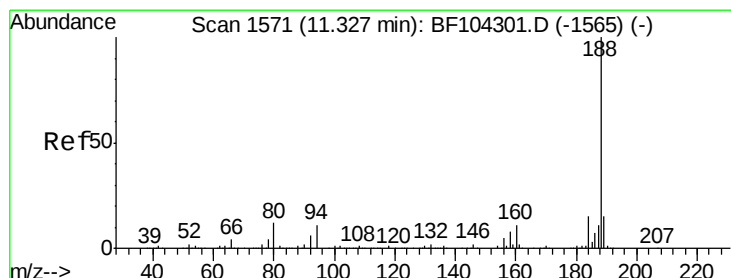
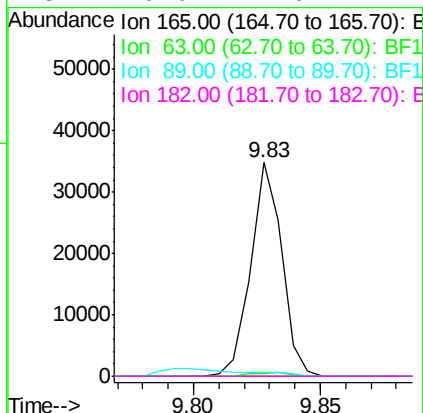
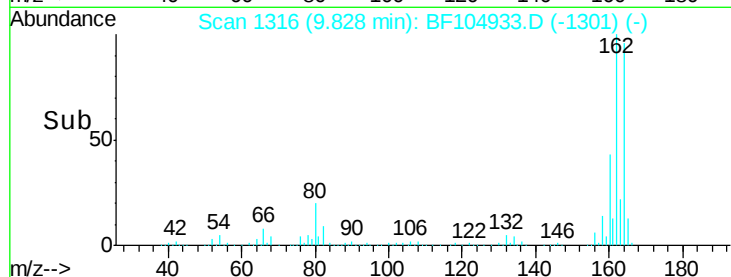
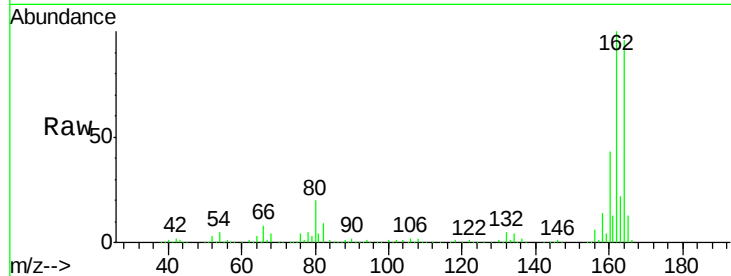




#56  
 2,4-Dinitrotoluene  
 Concen: 6.716 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. -0.21 min  
 Lab File: BF104933.D  
 Acq: 30 Apr 2018 15:27

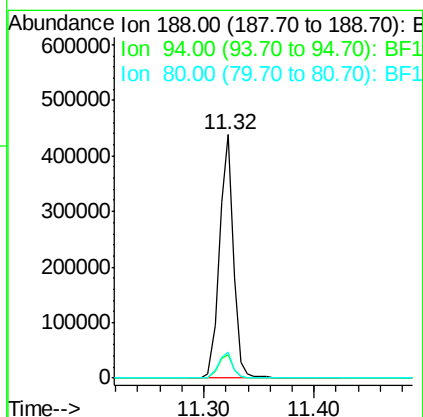
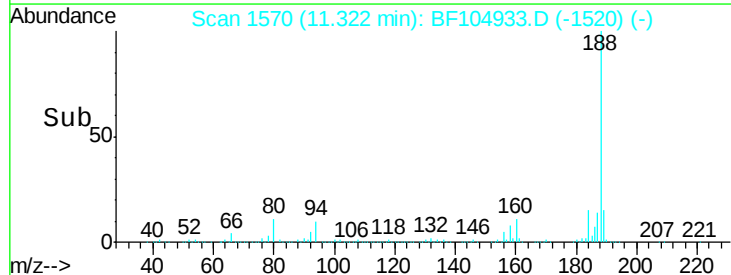
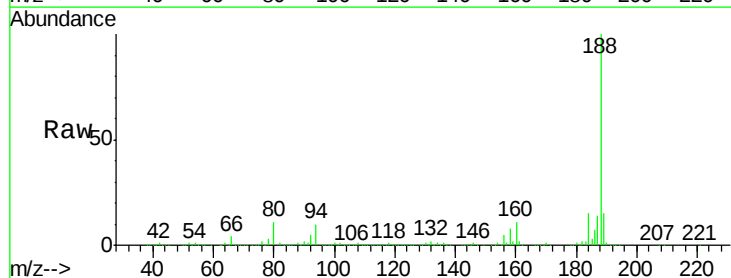
Instrument :  
 BNA\_F  
 ClientSampled :

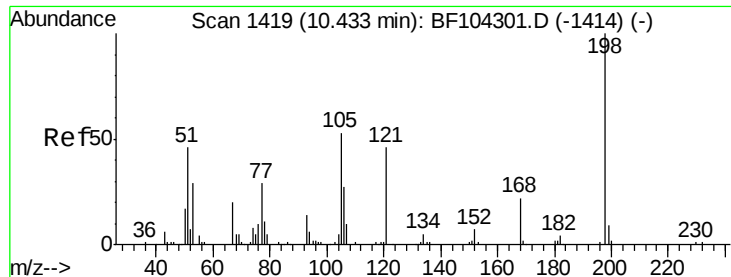
|             |             |
|-------------|-------------|
| Tot Ion:165 | Resp: 29767 |
| Ion Ratio   | Lower Upper |
| 165 100     |             |
| 63 1.1      | 36.4 54.6#  |
| 89 1.7      | 57.8 86.6#  |
| 182 0.0     | 1.6 2.4#    |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.32 min Scan# 1570  
 Delta R.T. -0.01 min  
 Lab File: BF104933.D  
 Acq: 30 Apr 2018 15:27

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:188 | Resp: | 385119 |
| Ion | Ratio   | Lower | Upper  |
| 188 | 100     |       |        |
| 94  | 9.8     | 8.5   | 12.7   |
| 80  | 10.6    | 9.2   | 13.8   |





#64

4,6-Dinitro-2-methylphenol

Concen: 7.467 ng

RT: 10.43 min Scan# 1419

Delta R.T. -0.02 min

Lab File: BF104933.D

Acq: 30 Apr 2018 15:27

Instrument :

BNA\_F

ClientSampleId :

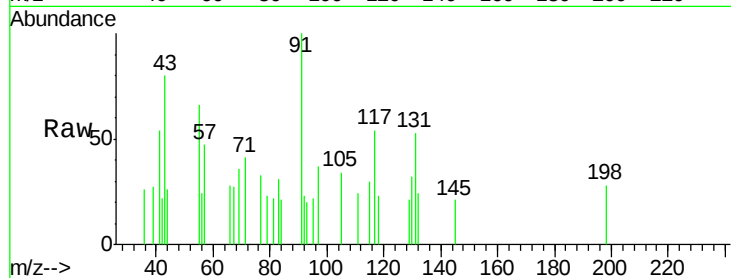
Tot Ion:198 Resp: 266

Ion Ratio Lower Upper

198 100

51 0.0 37.7 77.7#

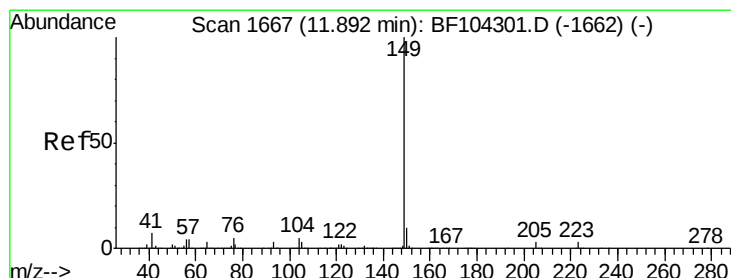
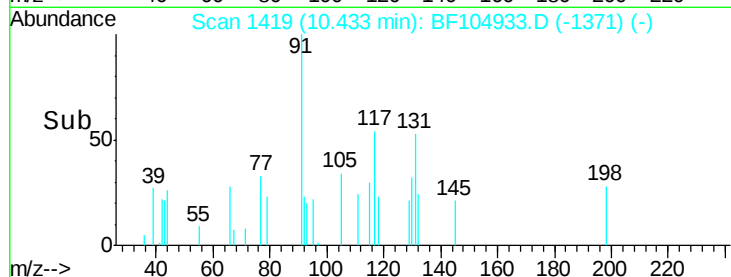
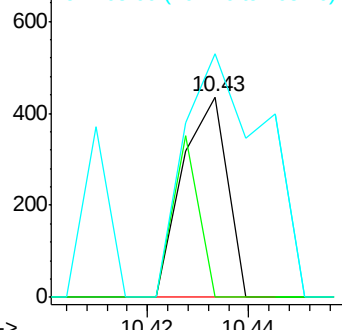
105 121.3 36.3 76.3#



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



#73

Di-n-butylphthalate

Concen: 4.871 ng

RT: 11.87 min Scan# 1664

Delta R.T. -0.01 min

Lab File: BF104933.D

Acq: 30 Apr 2018 15:27

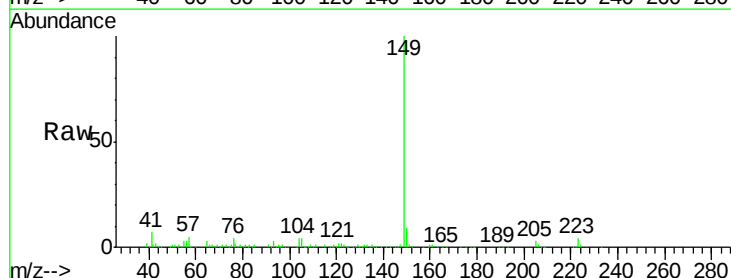
Tgt Ion:149 Resp: 126753

Ion Ratio Lower Upper

149 100

150 9.3 7.8 11.6

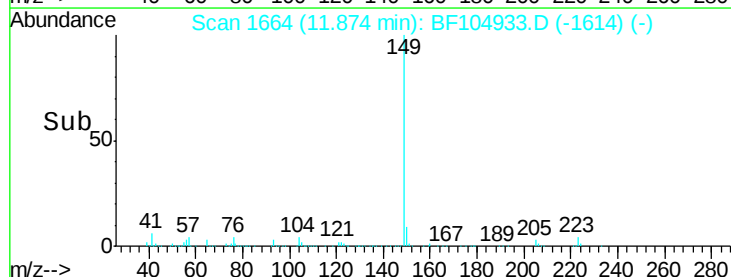
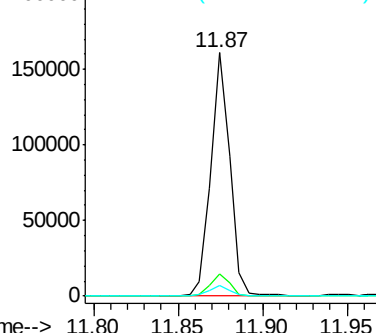
104 4.5 3.8 5.8

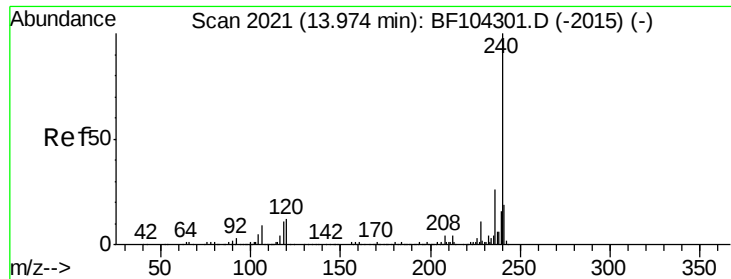


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. 0.00 min

Lab File: BF104933.D

Acq: 30 Apr 2018 15:27

Instrument :

BNA\_F

ClientSampleId :

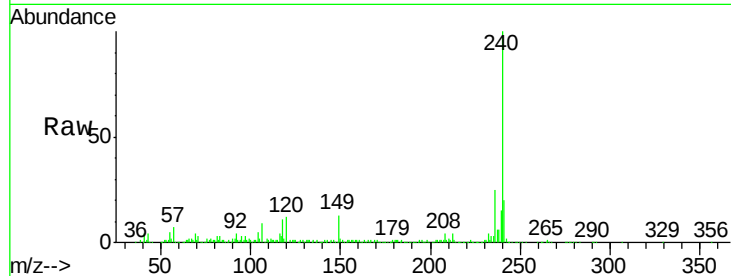
Tot Ion:240 Resp: 245044

Ion Ratio Lower Upper

240 100

120 12.4 9.5 14.3

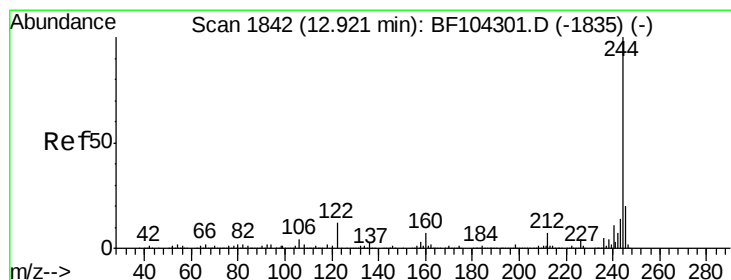
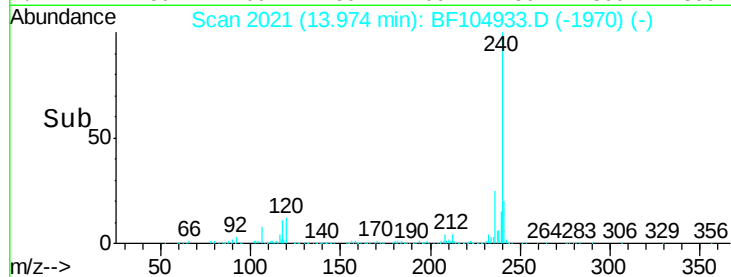
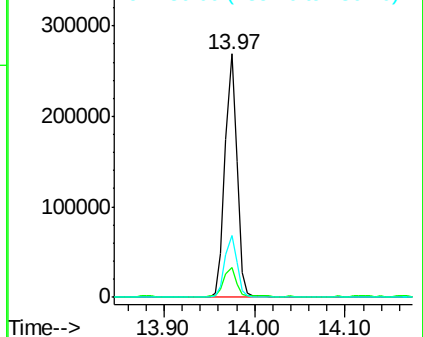
236 25.3 20.7 31.1



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



#78

Terphenyl-d14

Concen: 18.928 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF104933.D

Acq: 30 Apr 2018 15:27

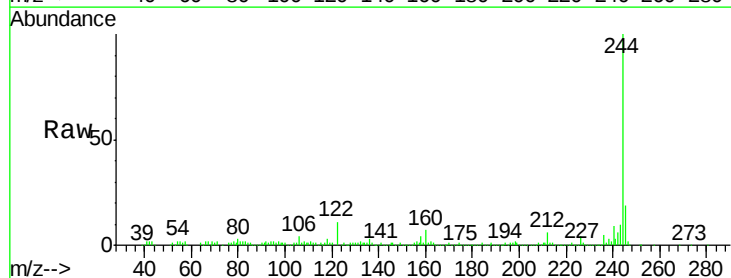
Tgt Ion:244 Resp: 203447

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

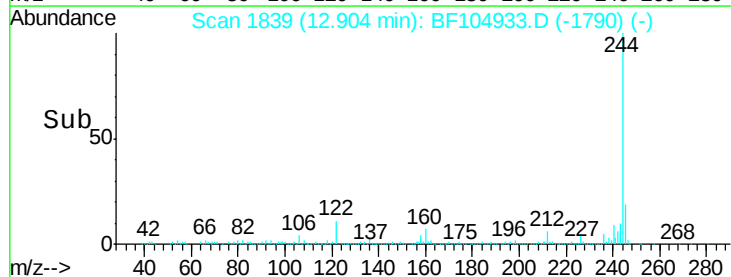
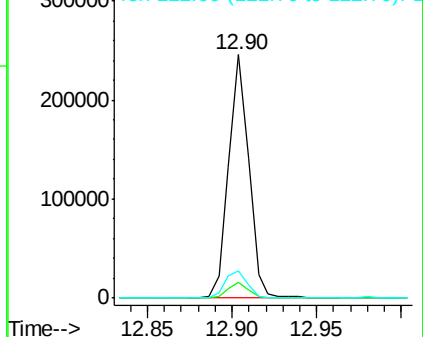
122 11.2 11.0 16.4

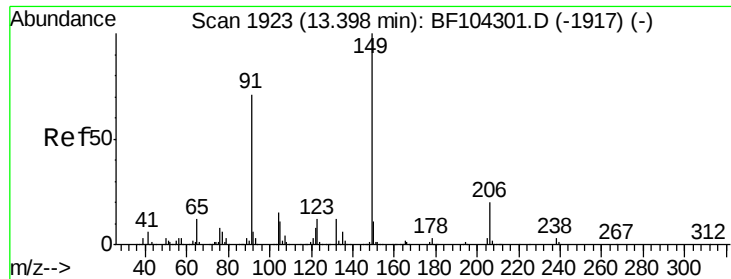


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

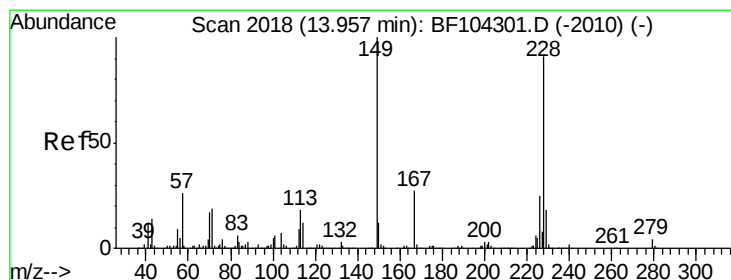
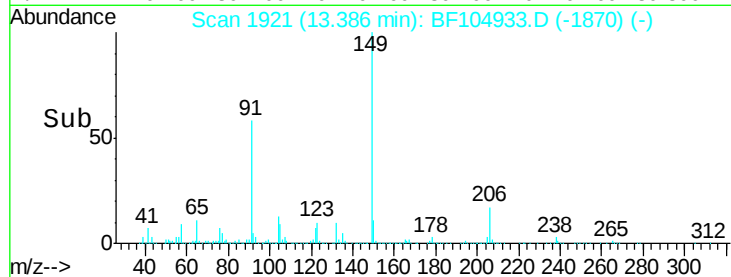
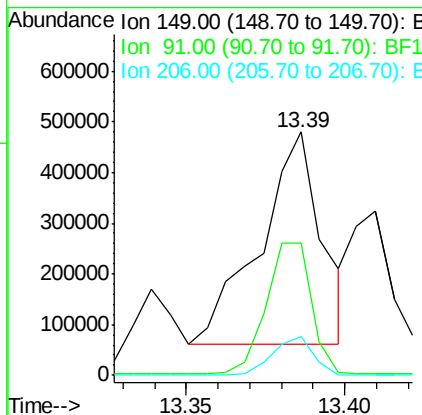
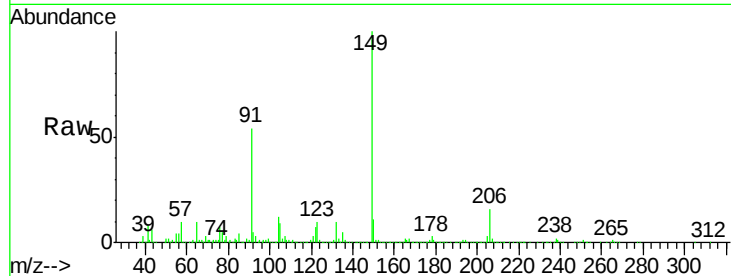




#79  
Butylbenzylphthalate  
Concen: 66.476 ng  
RT: 13.39 min Scan# 1921  
Delta R.T. 0.00 min  
Lab File: BF104933.D  
Acq: 30 Apr 2018 15:27

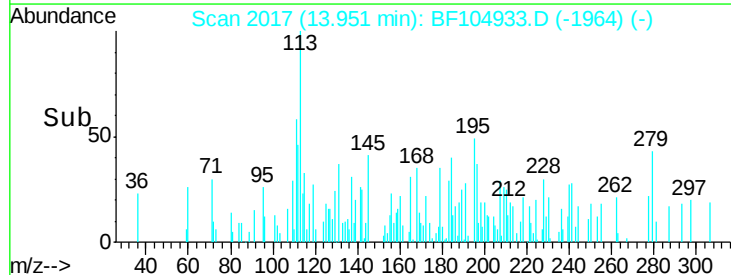
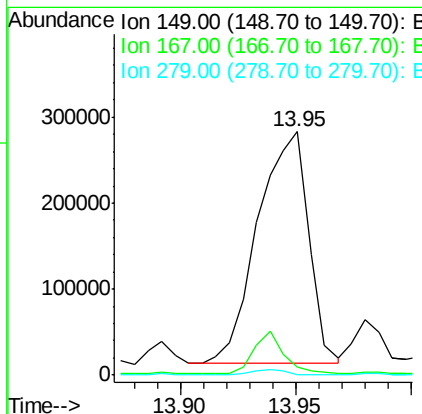
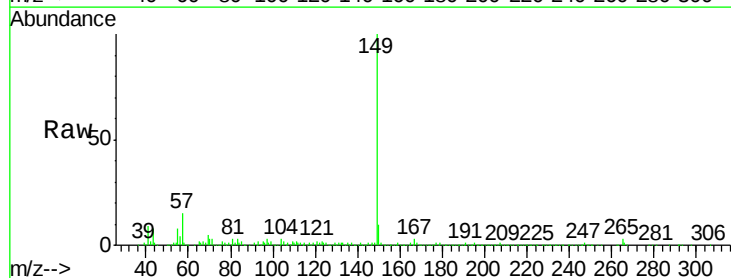
Instrument :  
BNA\_F  
ClientSampleId :

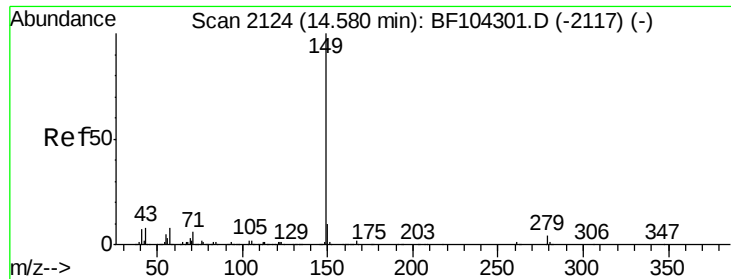
Tot Ion:149 Resp: 568844  
Ion Ratio Lower Upper  
149 100  
91 54.2 56.8 85.2#  
206 16.0 14.1 21.1



#83  
Bis(2-ethylhexyl)phthalate  
Concen: 37.150 ng  
RT: 13.95 min Scan# 2017  
Delta R.T. 0.01 min  
Lab File: BF104933.D  
Acq: 30 Apr 2018 15:27

Tgt Ion:149 Resp: 408890  
Ion Ratio Lower Upper  
149 100  
167 3.5 21.3 31.9#  
279 0.4 3.0 4.4#





#84

Di-n-octyl phthalate

Concen: 21.843 ng

RT: 14.53 min Scan# 2116

Delta R.T. -0.02 min

Lab File: BF104933.D

Acq: 30 Apr 2018 15:27

Instrument :

BNA\_F

ClientSampleId :

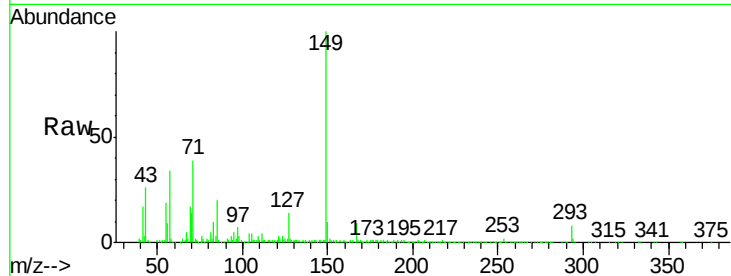
Tot Ion:149 Resp: 401714

Ion Ratio Lower Upper

149 100

167 10.2 1.2 1.8#

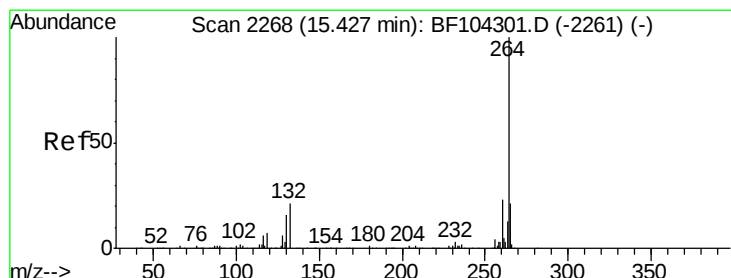
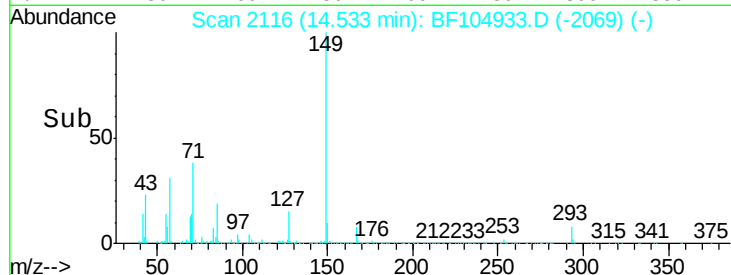
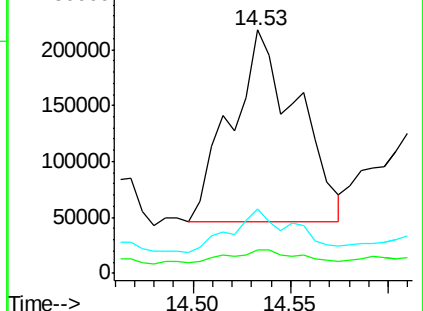
43 21.7 8.4 12.6#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2271

Delta R.T. 0.01 min

Lab File: BF104933.D

Acq: 30 Apr 2018 15:27

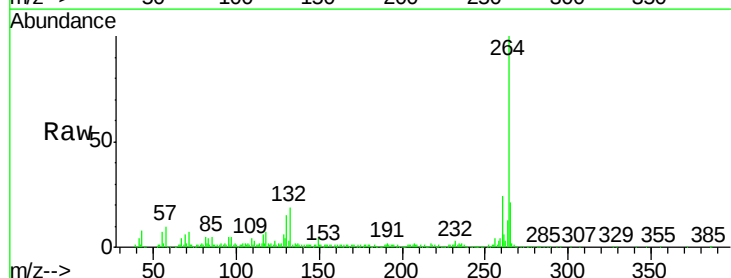
Tgt Ion:264 Resp: 224833

Ion Ratio Lower Upper

264 100

260 24.0 19.2 28.8

265 21.2 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

