

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\  
 Data File : BF111894.D  
 Acq On : 7 Jan 2019 23:20  
 Operator : JU/SJ  
 Sample : K1036-16  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 08 04:07:16 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 07 14:33:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 140137   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 464744   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.93  | 164  | 222932   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.42 | 188  | 401250   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.06 | 240  | 442786   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.54 | 264  | 325861   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.53  | 112  | 844468   | 103.09 | ng    | 0.00     |
| 7) Phenol-d6                | 6.53  | 99   | 1037819  | 98.30  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 666080   | 76.60  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 257159   | 88.69  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 1190102  | 77.84  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.00 | 244  | 1231209  | 52.78  | ng    | 0.00     |

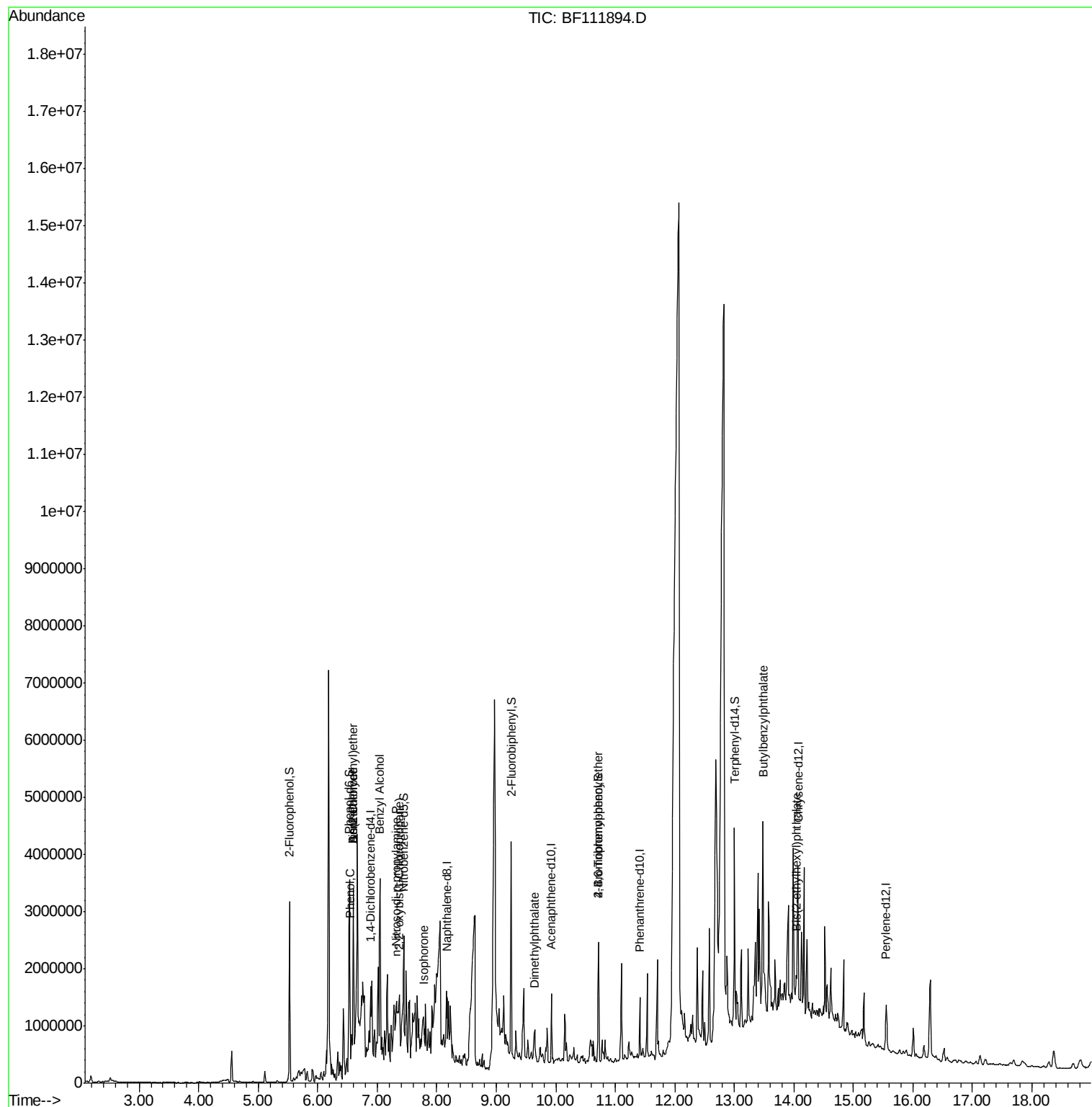
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 6) Aniline                     | 6.60  | 93   | 534995   | 41.909 | ng    | # 25   |
| 9) Benzaldehyde                | 6.60  | 77   | 139664   | 19.521 | ng    | # 9    |
| 10) Phenol                     | 6.55  | 94   | 46439    | 4.047  | ng    | # 75   |
| 11) bis(2-Chloroethyl)ether    | 6.60  | 93   | 534995   | 60.267 | ng    | # 20   |
| 15) Benzyl Alcohol             | 7.05  | 79   | 17114    | 2.049  | ng    | # 45   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.37  | 45   | 132073   | 8.726  | ng    | # 89   |
| 19) n-Nitroso-di-n-propylamine | 7.32  | 70   | 60871    | 8.874  | ng    | # 87   |
| 25) Isophorone                 | 7.79  | 82   | 36321    | 2.579  | ng    | # 38   |
| 50) Dimethylphthalate          | 9.64  | 163  | 99912    | 5.966  | ng    | # 99   |
| 67) 4-Bromophenyl-phenylether  | 10.72 | 248  | 15845    | 3.049  | ng    | # 1    |
| 80) Butylbenzylphthalate       | 13.49 | 149  | 213502   | 16.576 | ng    | # 42   |
| 84) Bis(2-ethylhexyl)phthalate | 14.04 | 149  | 51033    | 3.017  | ng    | # 100  |

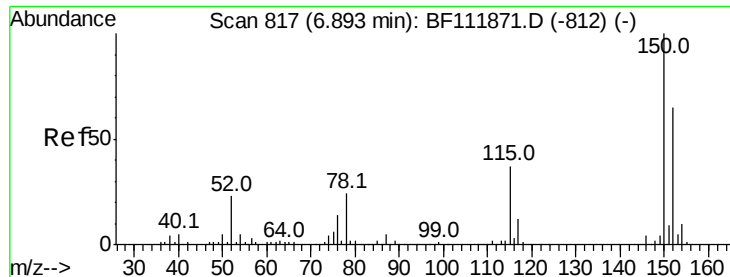
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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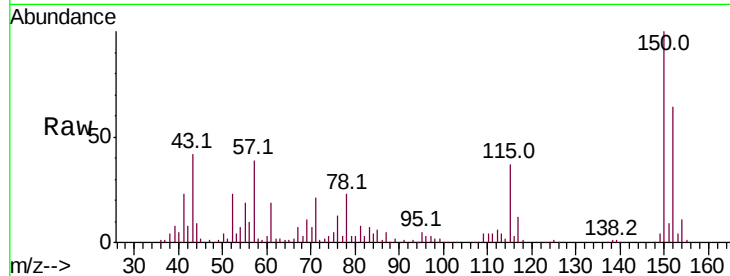


#1

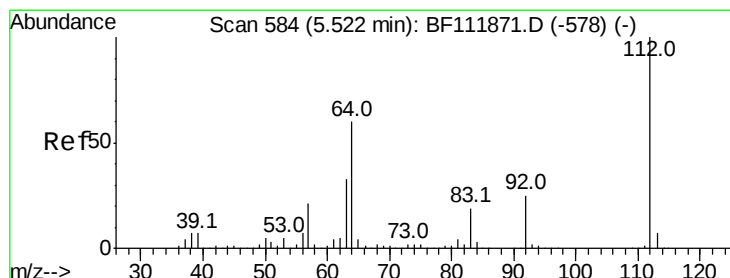
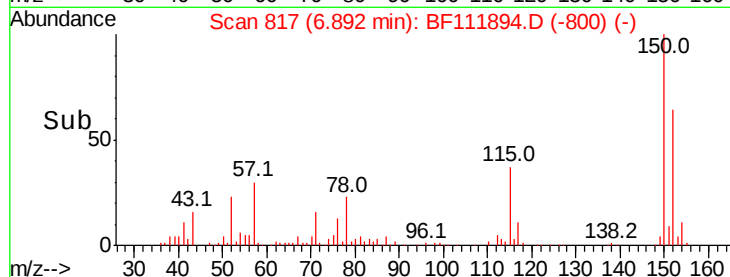
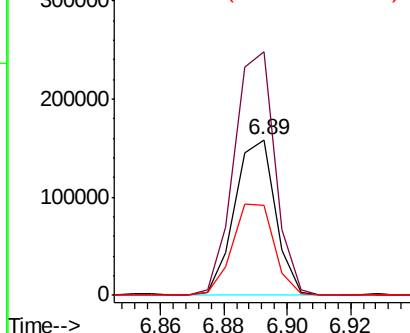
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 817  
Delta R.T. -0.00 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 140137  
Ion Ratio Lower Upper  
152 100  
150 156.6 122.7 184.1  
115 57.8 45.2 67.8



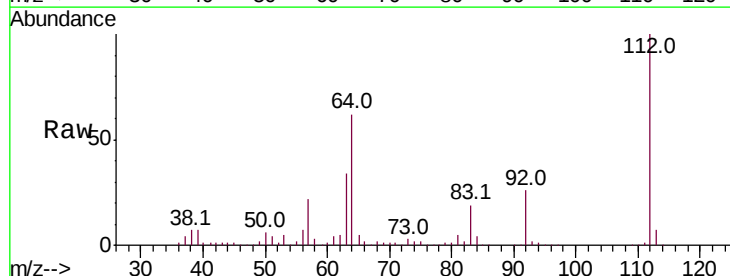
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



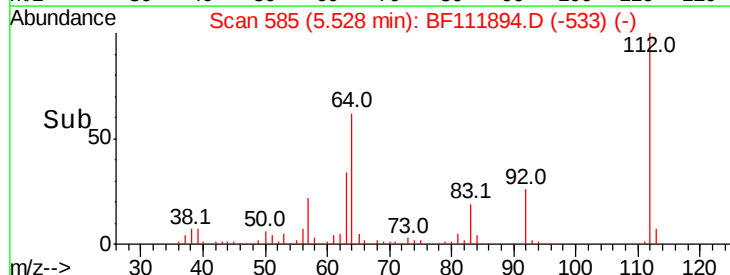
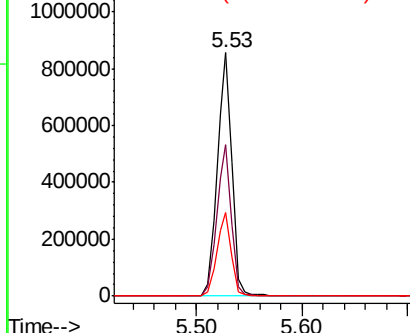
#5

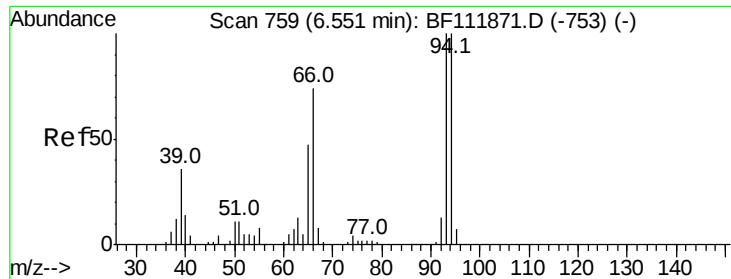
2-Fluorophenol  
Concen: 103.094 ng  
RT: 5.53 min Scan# 585  
Delta R.T. 0.01 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

Tgt Ion:112 Resp: 844468  
Ion Ratio Lower Upper  
112 100  
64 62.2 48.3 72.5  
63 34.4 26.1 39.1



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





#6

Aniline

Concen: 41.909 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.05 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

Instrument :

BNA\_F

ClientSampleId :

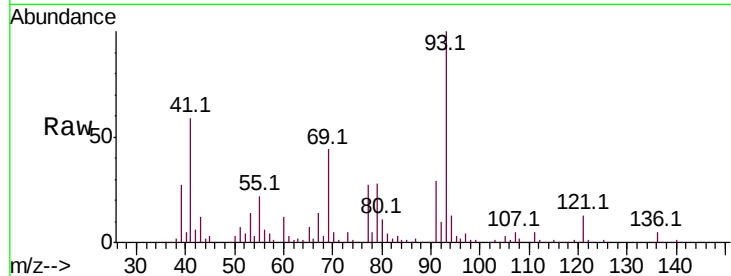
Tot Ion: 93 Resp: 534995

Ion Ratio Lower Upper

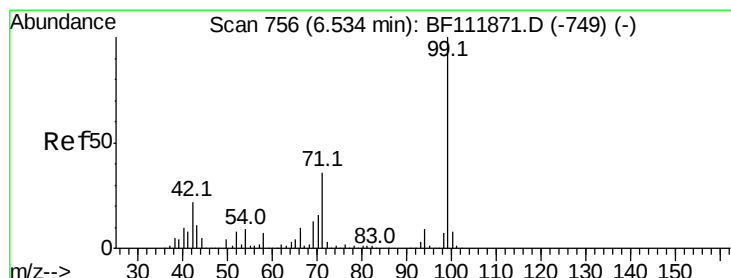
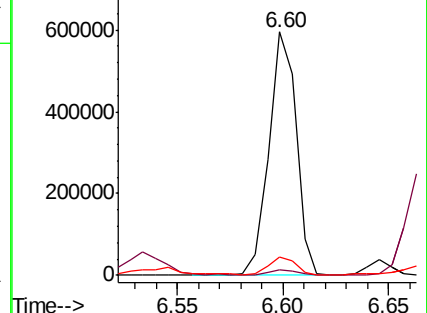
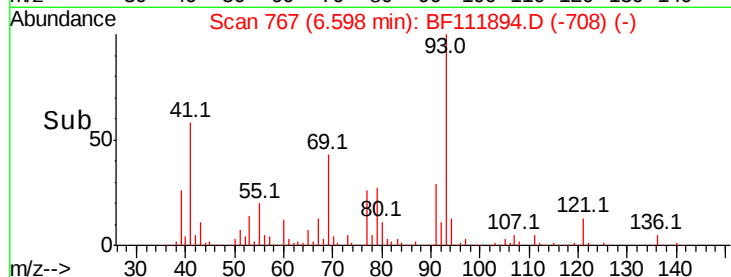
93 100

66 2.5 60.0 90.0#

65 7.4 37.5 56.3#



Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1



#7

Phenol-d6

Concen: 98.301 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.00 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

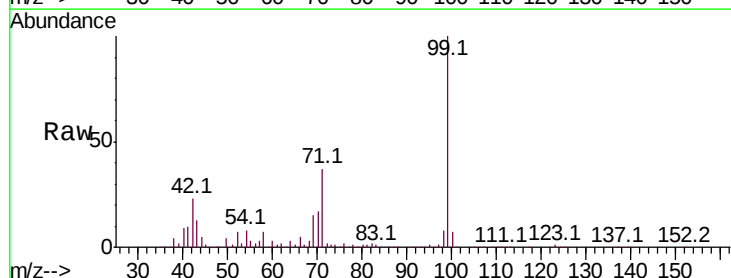
Tgt Ion: 99 Resp: 1037819

Ion Ratio Lower Upper

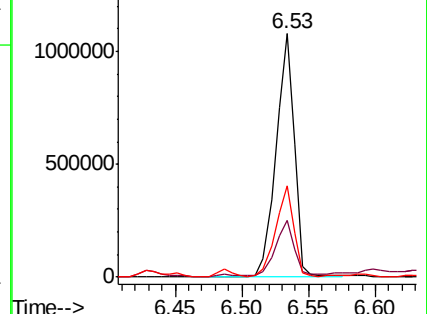
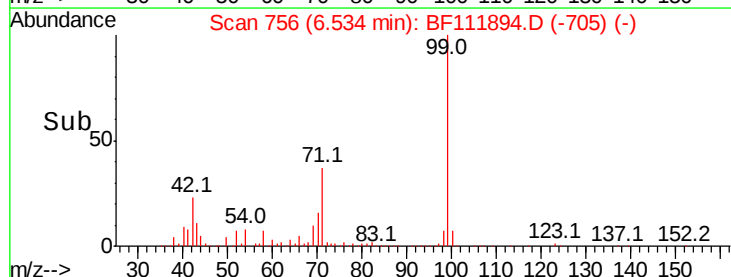
99 100

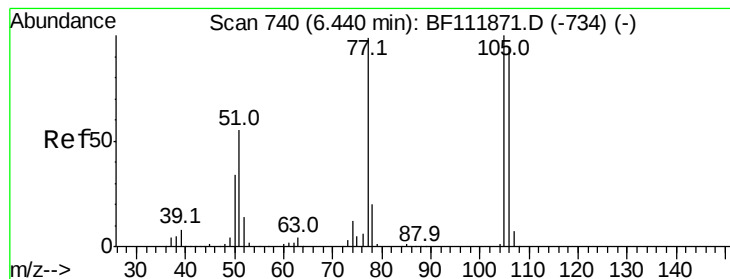
42 23.2 17.9 26.9

71 37.5 28.7 43.1



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: 19.521 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.16 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

Instrument :

BNA\_F

ClientSampled :

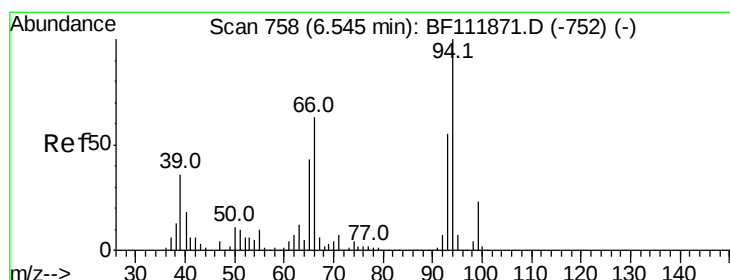
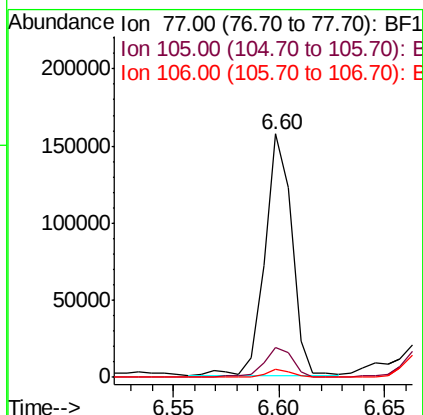
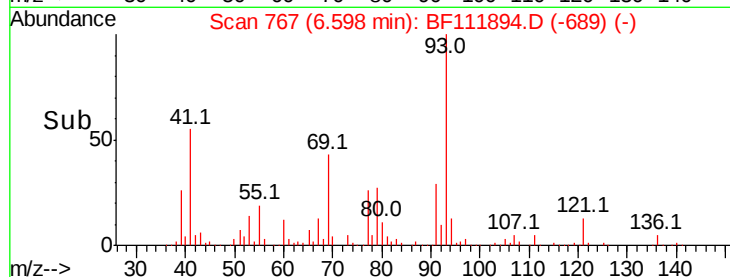
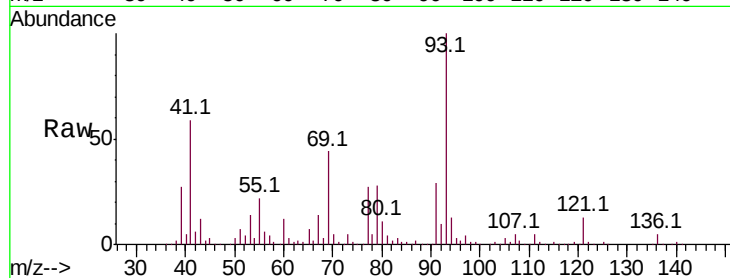
Tot Ion: 77 Resp: 139664

Ion Ratio Lower Upper

77 100

105 12.5 80.6 120.6#

106 3.3 74.6 114.6#



#10

Phenol

Concen: 4.047 ng

RT: 6.55 min Scan# 758

Delta R.T. 0.00 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

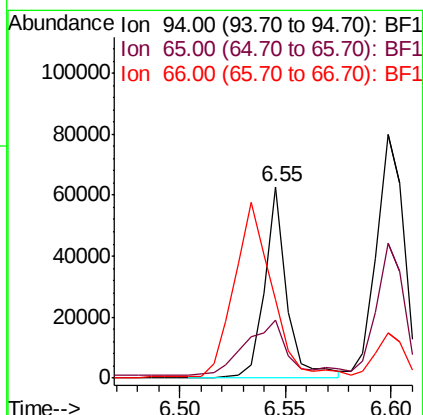
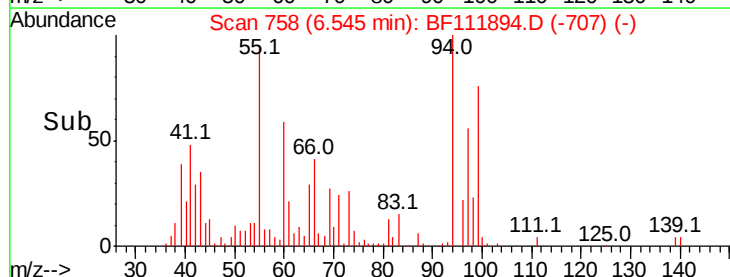
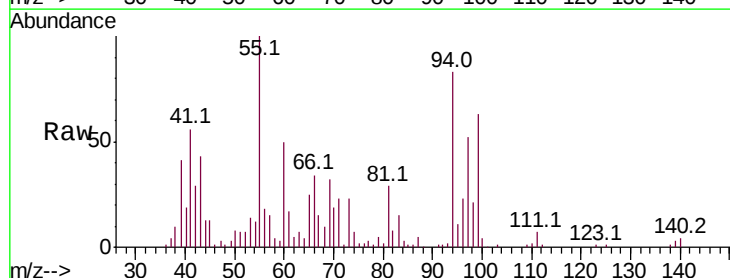
Tgt Ion: 94 Resp: 46439

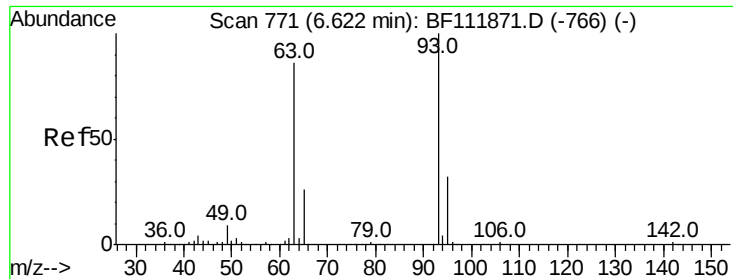
Ion Ratio Lower Upper

94 100

65 30.6 22.8 62.8

66 41.2 43.3 83.3#

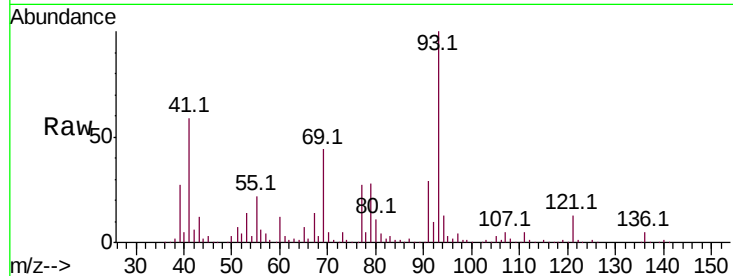




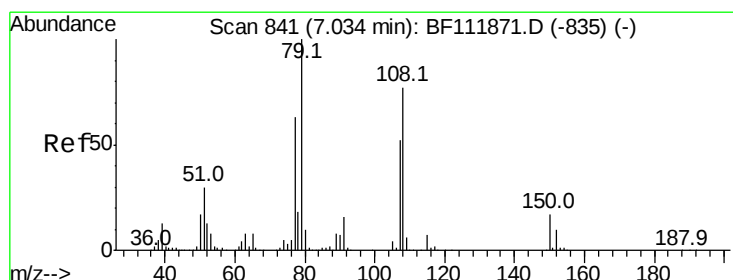
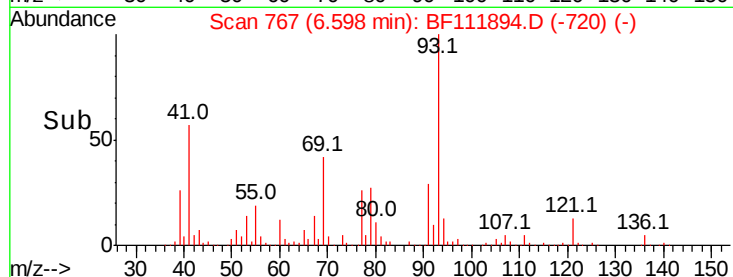
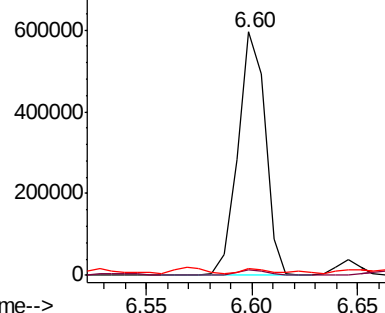
#11  
bis(2-Chloroethyl)ether  
Concen: 60.267 ng  
RT: 6.60 min Scan# 767  
Delta R.T. -0.02 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 93 Resp: 534995  
Ion Ratio Lower Upper  
93 100  
63 2.4 65.2 105.2#  
95 2.7 11.9 51.9#

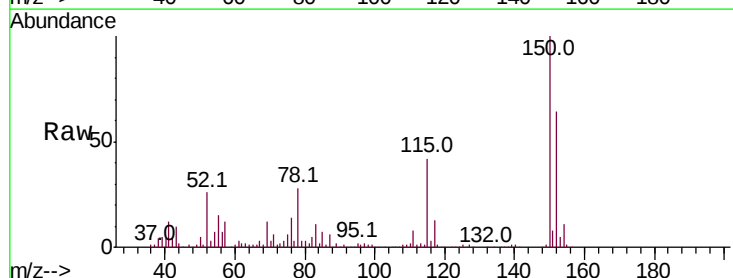


Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1

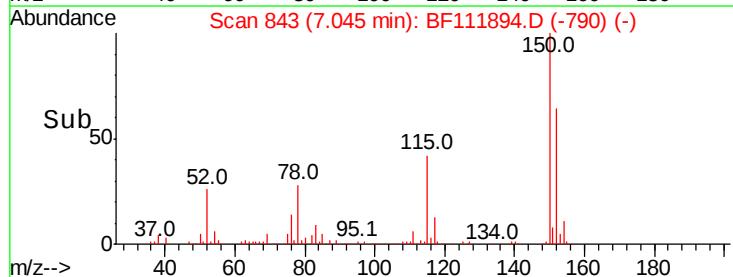
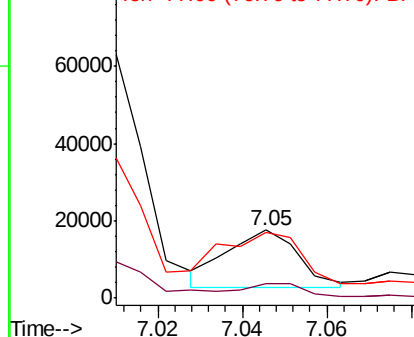


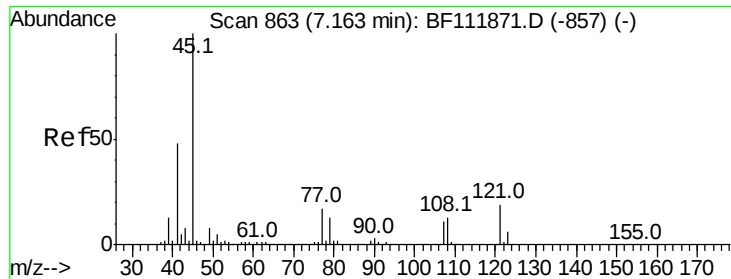
#15  
Benzyl Alcohol  
Concen: 2.049 ng  
RT: 7.05 min Scan# 843  
Delta R.T. 0.01 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

Tgt Ion: 79 Resp: 17114  
Ion Ratio Lower Upper  
79 100  
108 21.2 61.4 92.0#  
77 96.8 50.4 75.6#



Abundance Ion 79.00 (78.70 to 79.70): BF1  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1

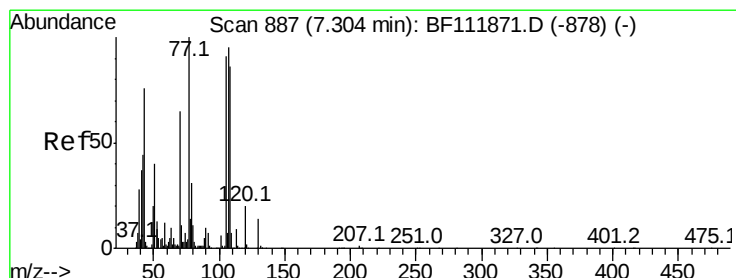
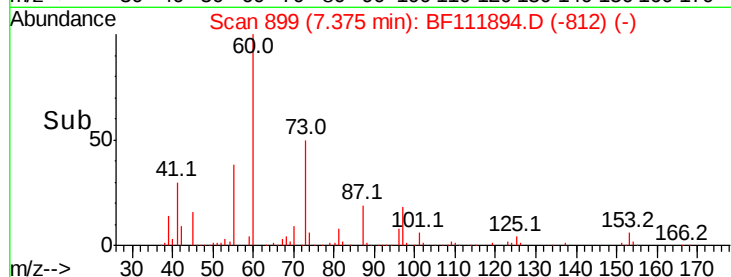
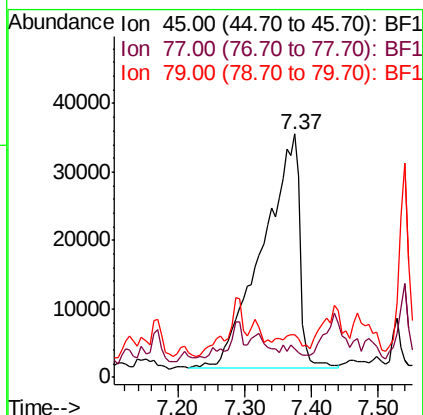
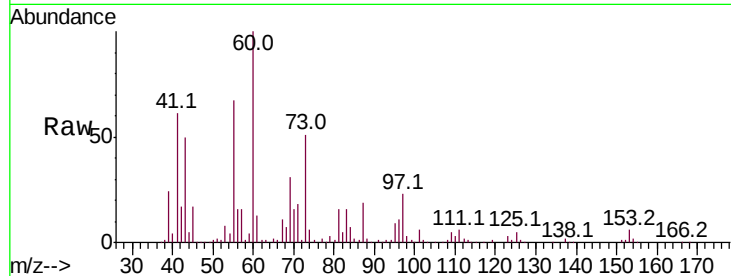




#16  
2,2'-oxvbis(1-Chloropropane)  
Concen: 8.726 ng  
RT: 7.37 min Scan# 899  
Delta R.T. 0.21 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

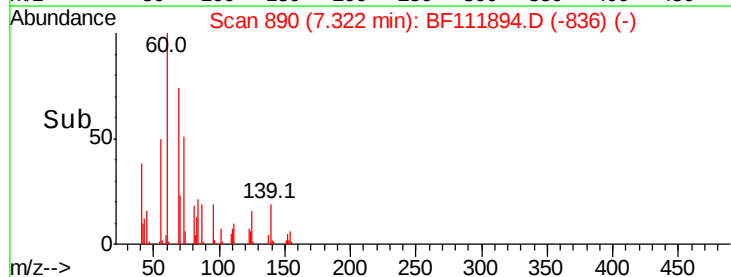
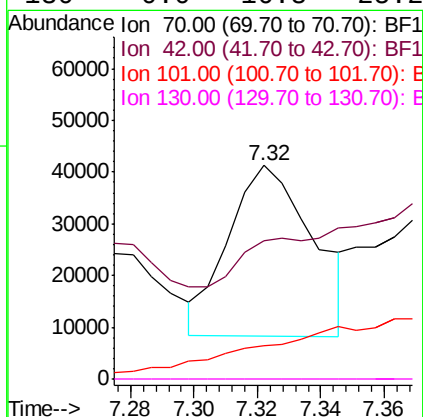
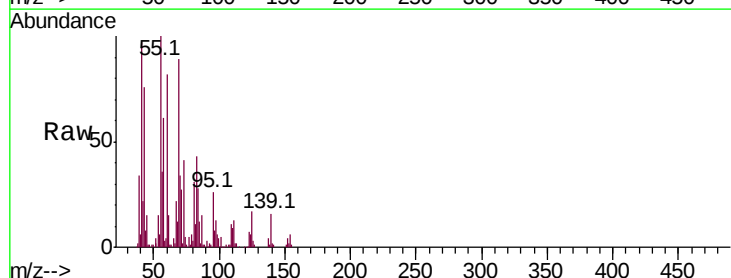
Instrument :  
BNA\_F  
ClientSampleId :

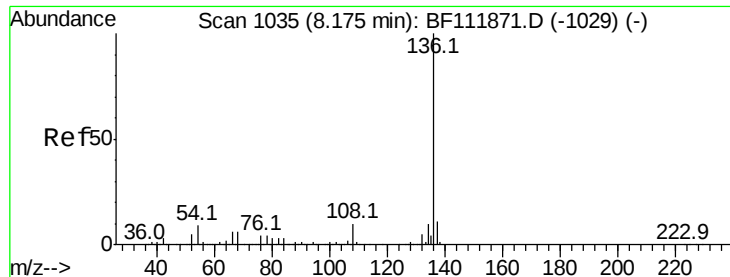
Tot Ion: 45 Resp: 132073  
Ion Ratio Lower Upper  
45 100  
77 11.5 0.0 37.1  
79 17.3 0.0 33.9



#19  
n-Nitroso-di-n-propylamine  
Concen: 8.874 ng  
RT: 7.32 min Scan# 890  
Delta R.T. 0.02 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

Tgt Ion: 70 Resp: 60871  
Ion Ratio Lower Upper  
70 100  
42 64.7 53.6 80.4  
101 15.7 7.3 10.9#  
130 0.0 16.8 25.2#

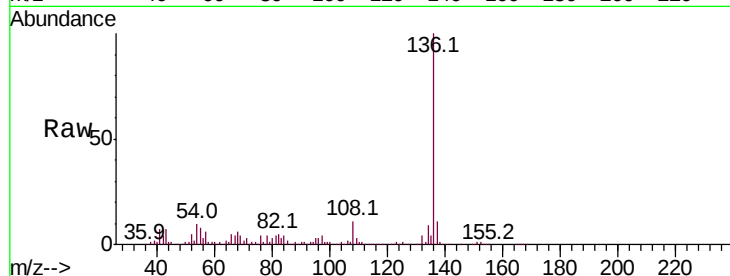




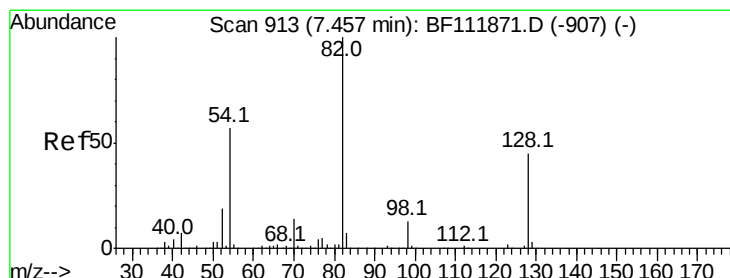
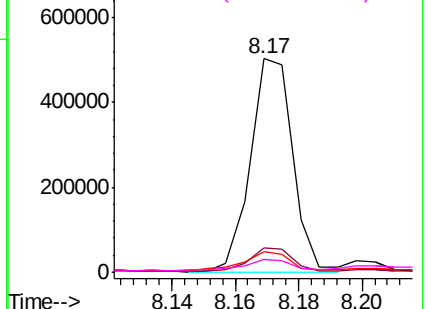
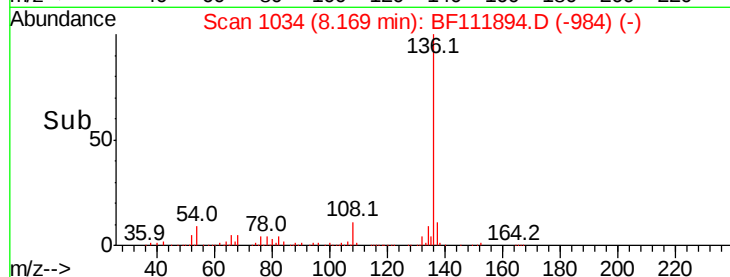
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 464744   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.3  | 9.1 13.7 |
| 54          | 9.8   | 7.2 10.8 |
| 68          | 6.3   | 4.4 6.6  |

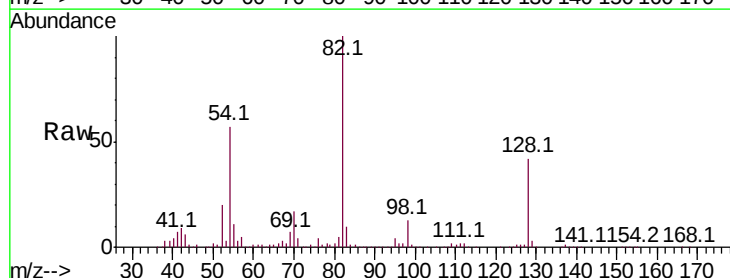


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

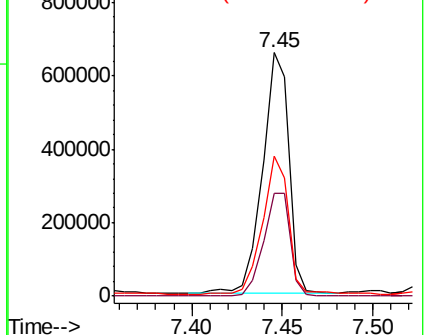
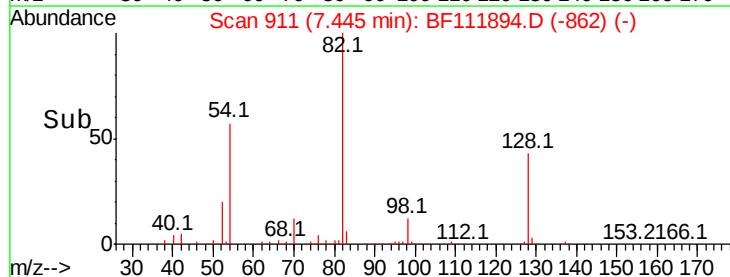


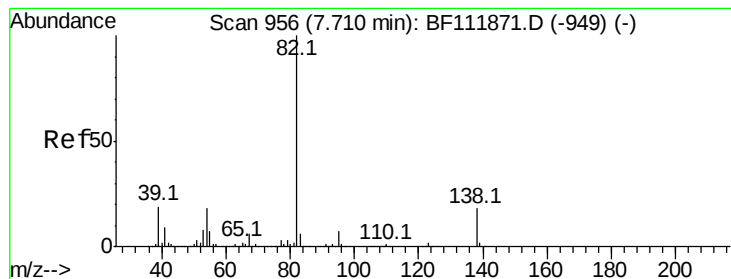
#23  
Nitrobenzene-d5  
Concen: 76.599 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 666080    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.4  | 35.7 53.5 |
| 54          | 57.5  | 45.8 68.8 |



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





#25

Isophorone

Concen: 2.579 ng

RT: 7.79 min Scan# 970

Delta R.T. 0.08 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

Instrument :

BNA\_F

ClientSampleId :

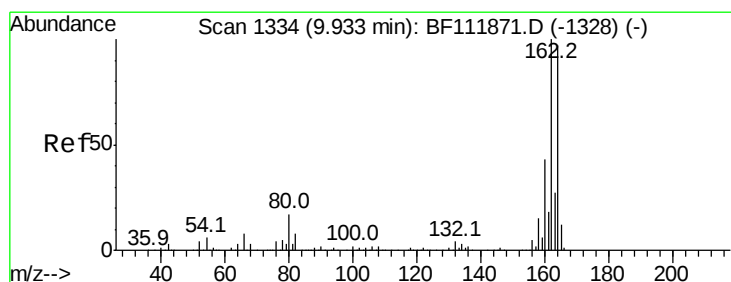
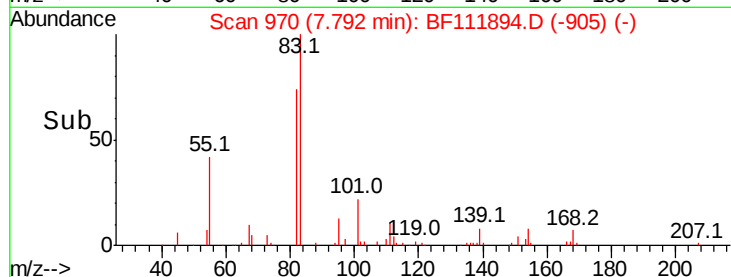
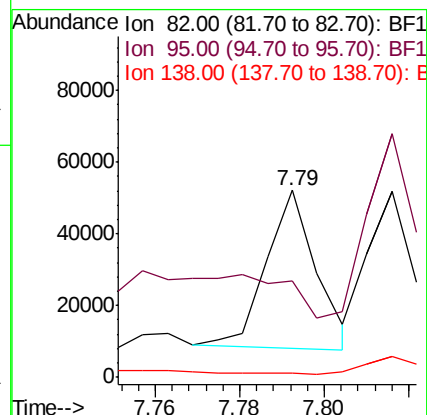
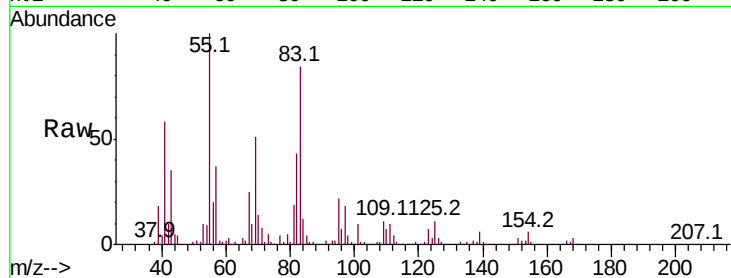
Tot Ion: 82 Resp: 36321

Ion Ratio Lower Upper

82 100

95 51.6 5.8 8.6#

138 2.3 14.4 21.6#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

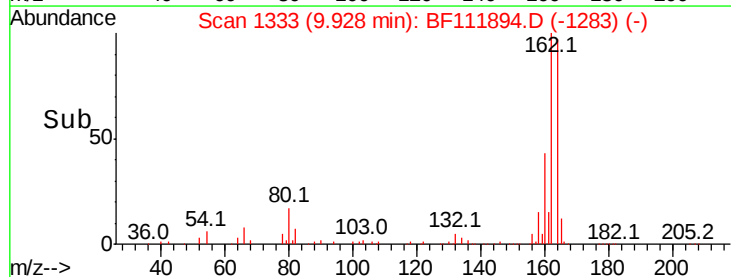
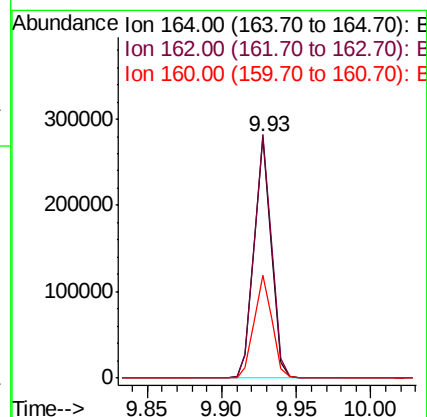
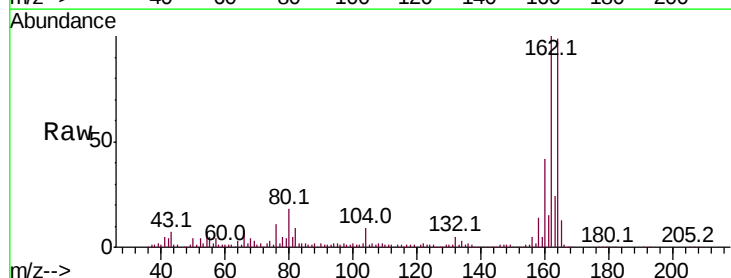
Tgt Ion: 164 Resp: 222932

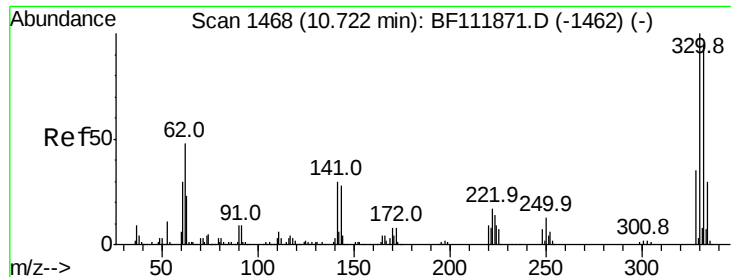
Ion Ratio Lower Upper

164 100

162 100.8 82.2 123.2

160 42.8 35.5 53.3

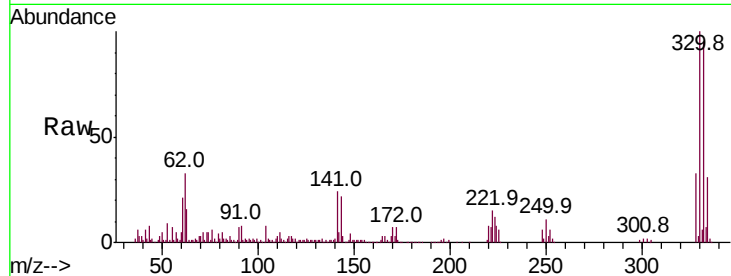




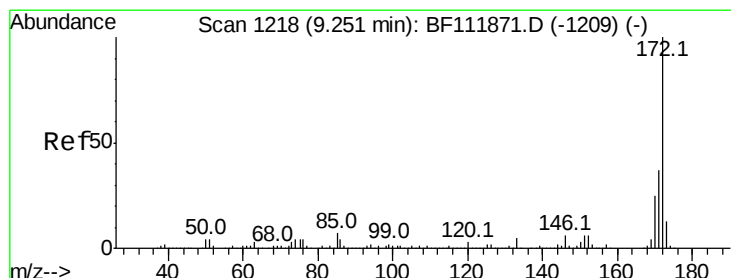
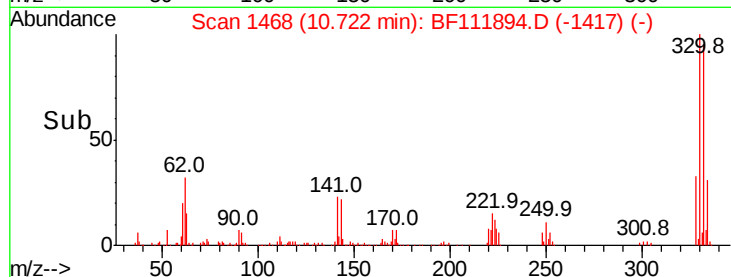
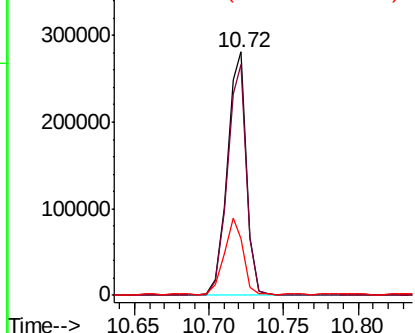
#42  
 2,4,6-Tribromophenol  
 Concen: 88.686 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. 0.00 min  
 Lab File: BF111894.D  
 Acq: 7 Jan 2019 23:20

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.4  | 76.9  | 115.3 |
| 141     | 30.6  | 23.7  | 35.5  |

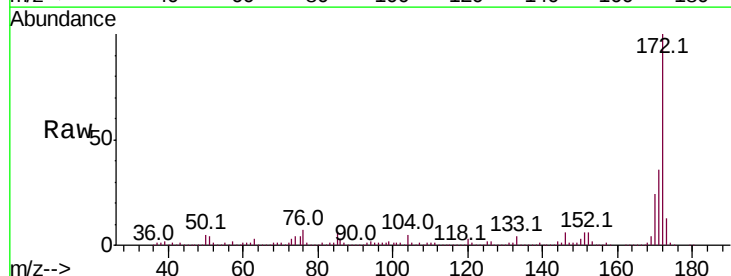


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

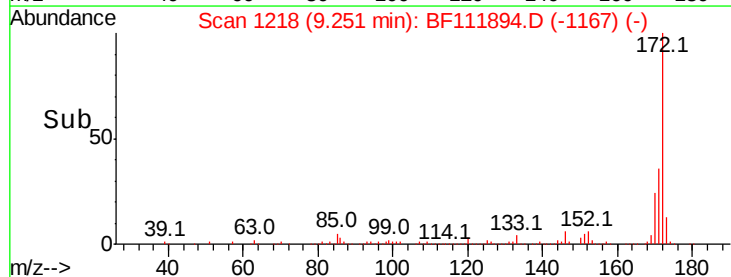
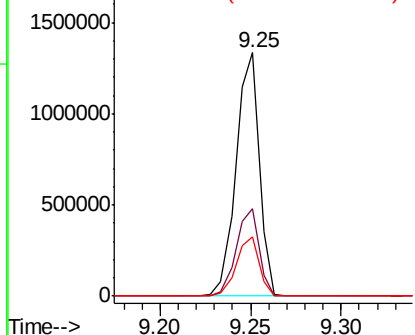


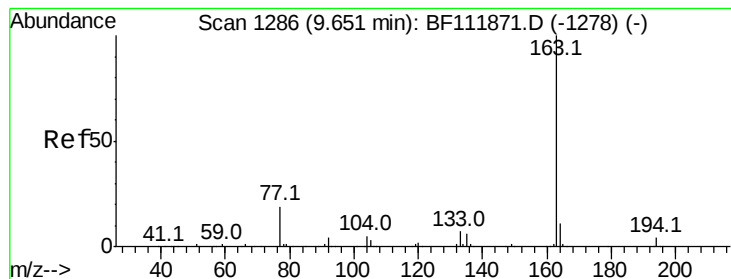
#45  
 2-Fluorobiphenyl  
 Concen: 77.845 ng  
 RT: 9.25 min Scan# 1218  
 Delta R.T. -0.00 min  
 Lab File: BF111894.D  
 Acq: 7 Jan 2019 23:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.6  | 44.4  |
| 170     | 24.3  | 19.8  | 29.8  |



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





#50

Dimethylphthalate

Concen: 5.966 ng

RT: 9.64 min Scan# 1284

Delta R.T. -0.01 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

Instrument :

BNA\_F

ClientSampleId :

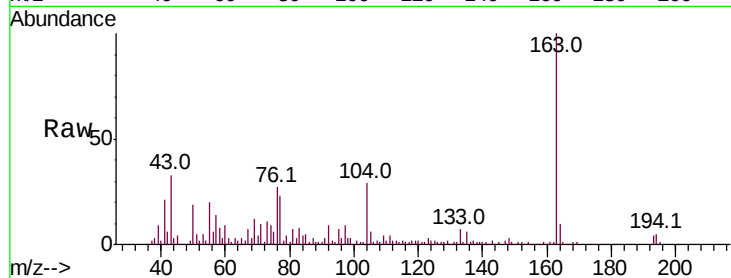
Tot Ion:163 Resp: 99912

Ion Ratio Lower Upper

163 100

194 4.6 3.4 5.2

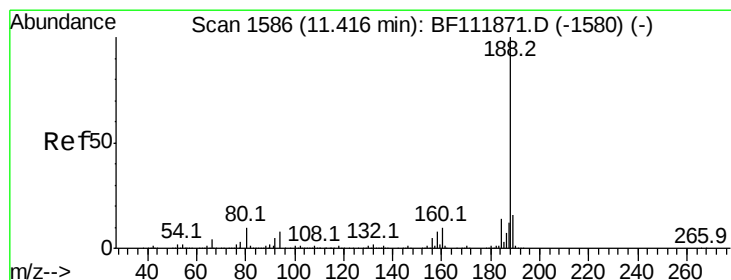
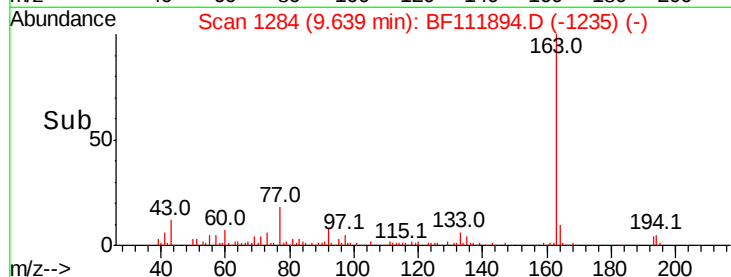
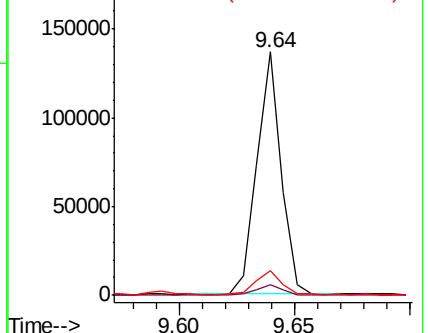
164 10.1 8.5 12.7



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.00 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

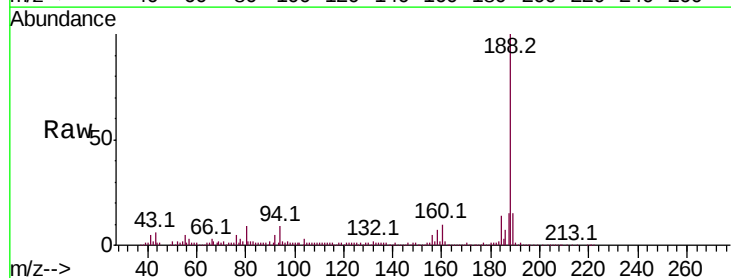
Tgt Ion:188 Resp: 401250

Ion Ratio Lower Upper

188 100

94 8.7 6.6 10.0

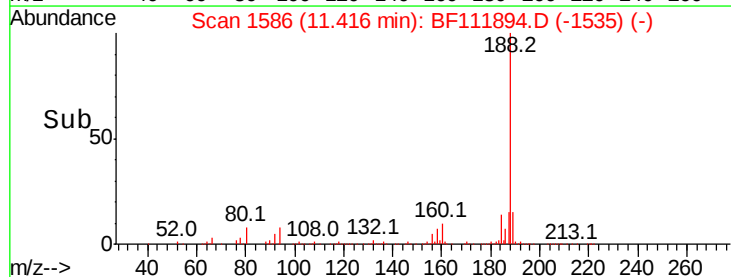
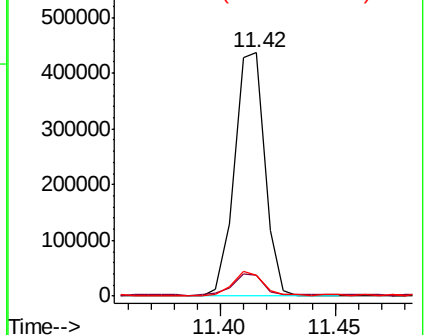
80 8.8 7.7 11.5

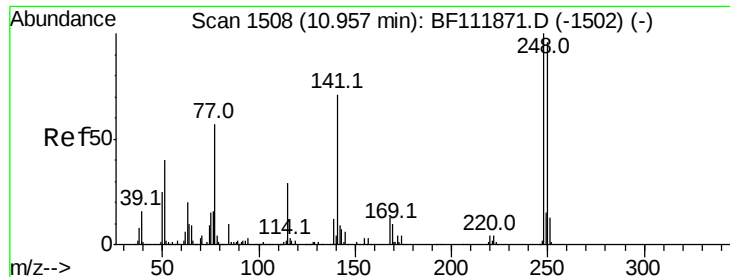


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

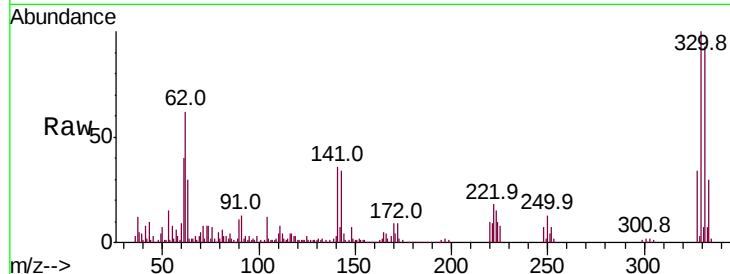




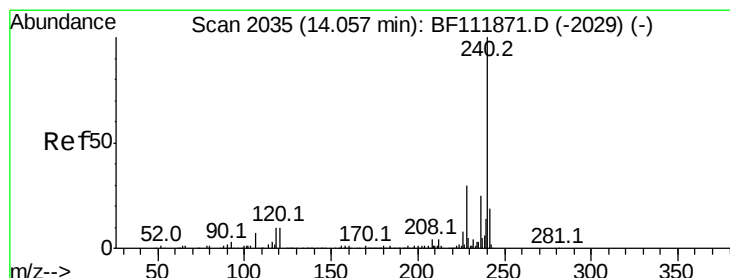
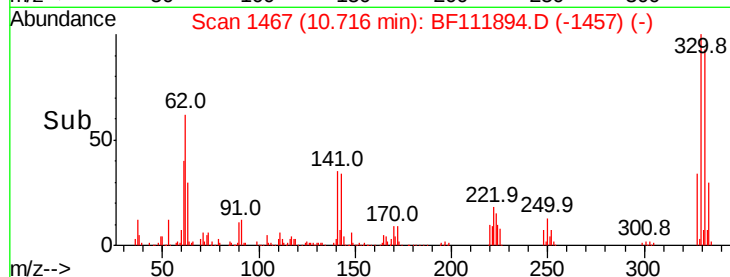
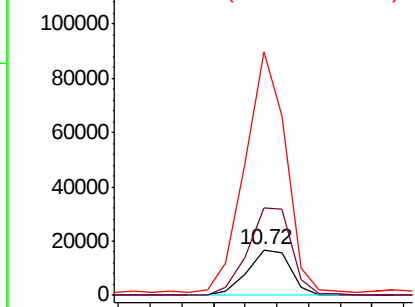
#67  
4-Bromophenyl-phenylether  
Concen: 3.049 ng  
RT: 10.72 min Scan# 1467  
Delta R.T. -0.24 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 15845  
Ion Ratio Lower Upper  
248 100  
250 192.9 76.8 115.2#  
141 535.4 57.0 85.6#

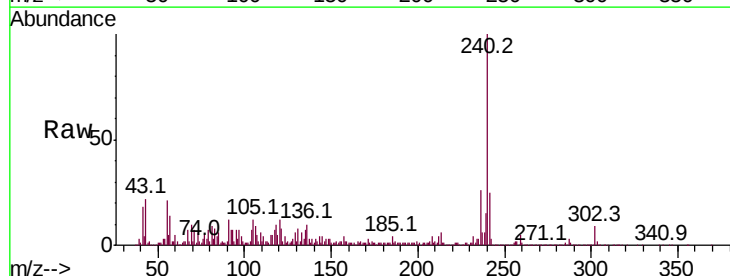


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

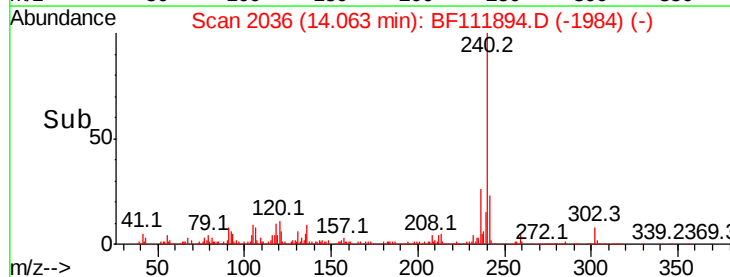
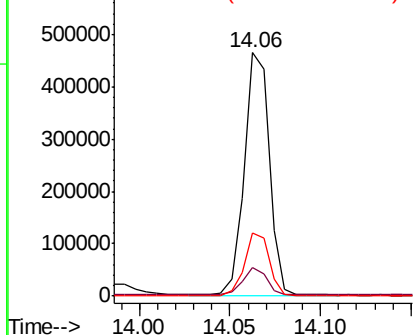


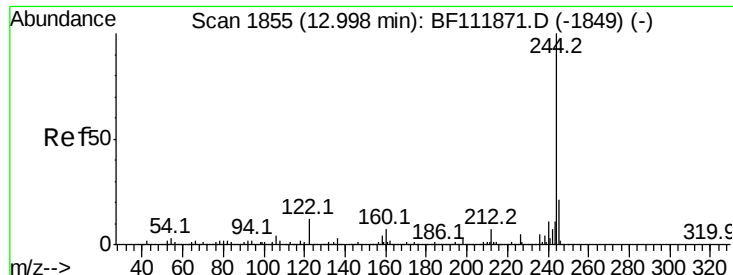
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2036  
Delta R.T. 0.01 min  
Lab File: BF111894.D  
Acq: 7 Jan 2019 23:20

Tgt Ion:240 Resp: 442786  
Ion Ratio Lower Upper  
240 100  
120 11.6 8.2 12.2  
236 26.2 20.2 30.4



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





#79

Terphenyl-d14

Concen: 52.782 ng

RT: 13.00 min Scan# 1856

Delta R.T. 0.01 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

Instrument :

BNA\_F

ClientSampleId :

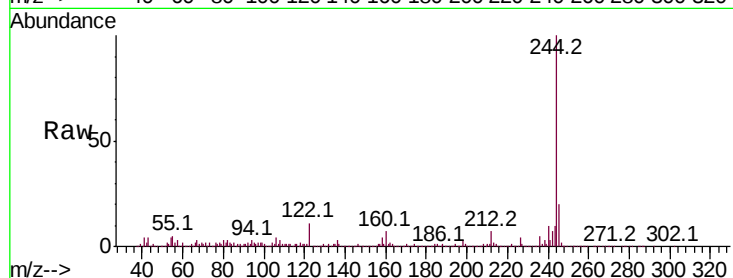
Tot Ion:244 Resp: 1231209

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

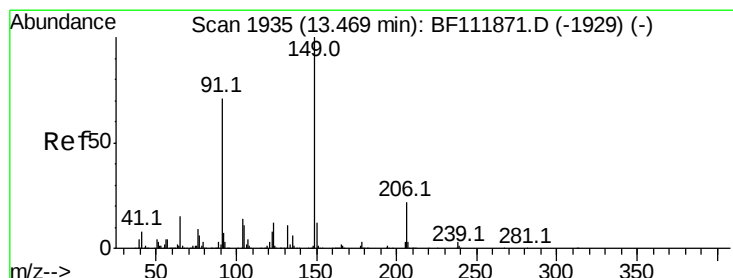
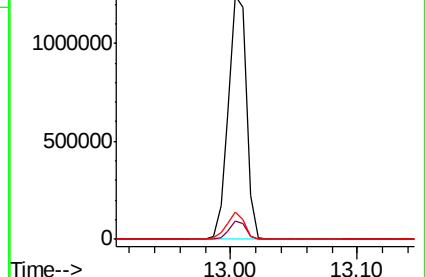
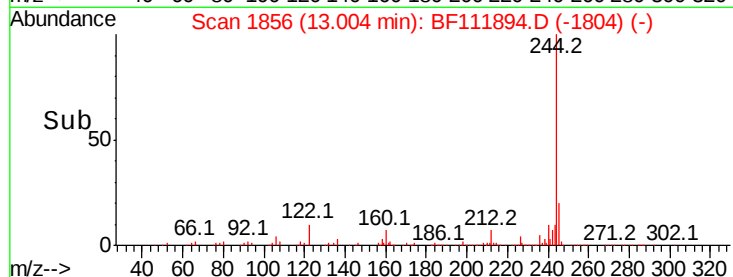
122 11.0 9.5 14.3



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



#80

Butylbenzylphthalate

Concen: 16.576 ng

RT: 13.49 min Scan# 1938

Delta R.T. 0.02 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

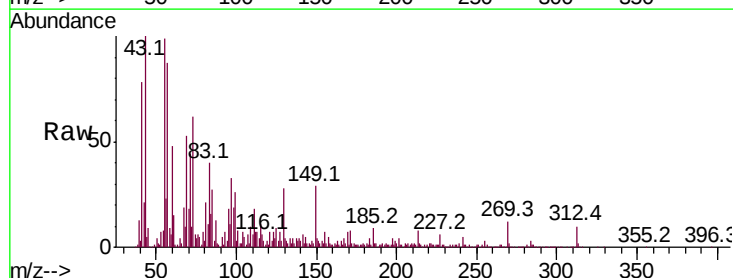
Tgt Ion:149 Resp: 213502

Ion Ratio Lower Upper

149 100

91 18.6 57.2 85.8#

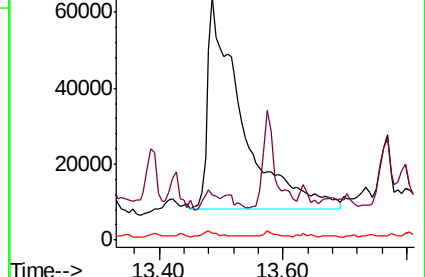
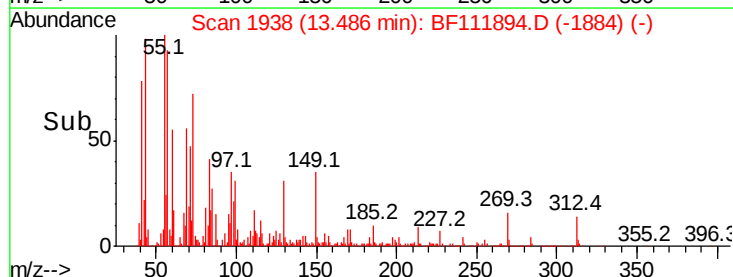
206 2.9 17.3 25.9#

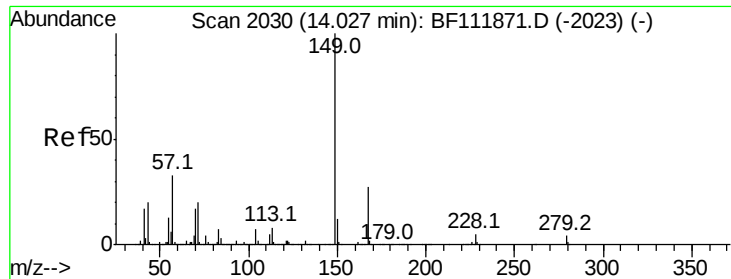


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.017 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.01 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

Instrument :

BNA\_F

ClientSampleId :

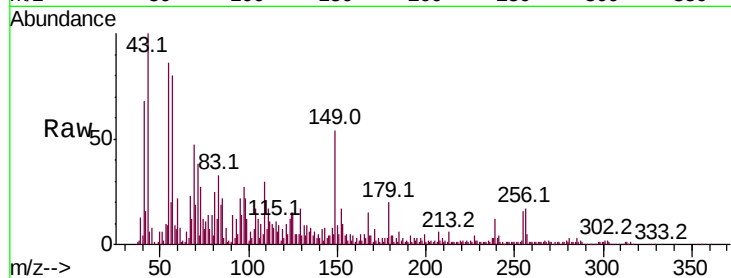
Tot Ion:149 Resp: 51033

Ion Ratio Lower Upper

149 100

167 27.0 21.5 32.3

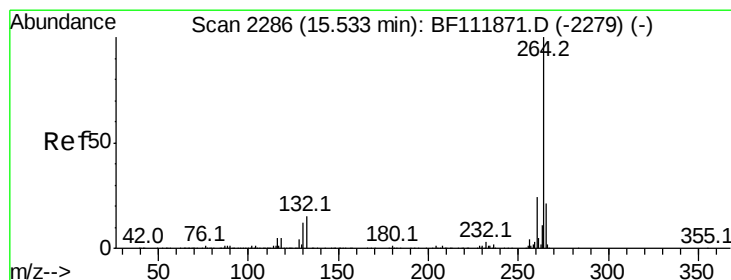
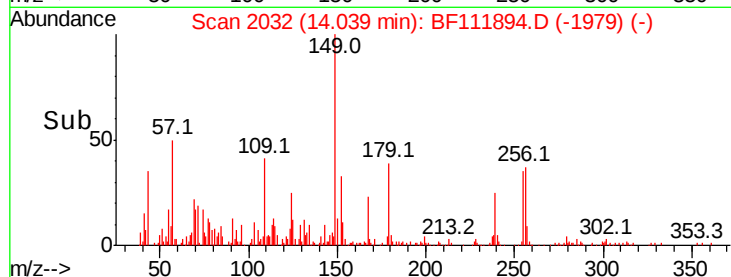
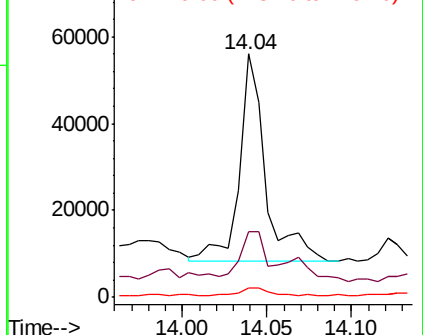
279 3.7 3.0 4.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2288

Delta R.T. 0.01 min

Lab File: BF111894.D

Acq: 7 Jan 2019 23:20

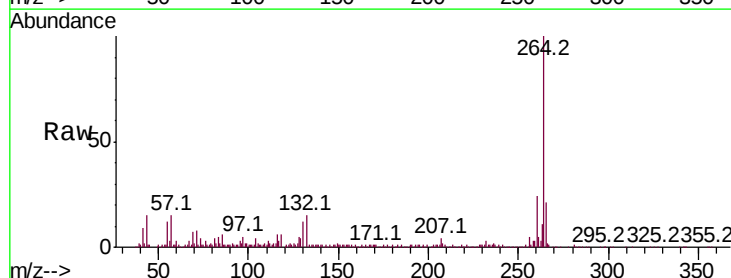
Tgt Ion:264 Resp: 325861

Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

265 20.7 17.1 25.7



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

