

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\  
 Data File : BF098193.D  
 Acq On : 31 Aug 2017 9:49  
 Operator : SJ/JU  
 Sample : I4985-02  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 31 12:38:33 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 112339   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.01  | 136  | 409108   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.76  | 164  | 151118   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.24 | 188  | 262178   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 13.87 | 240  | 232390   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.29 | 264  | 156892   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 849567   | 115.03 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 1101640  | 109.78 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 629610   | 83.60  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 156906   | 119.67 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 926669   | 90.09  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.83 | 244  | 783370   | 70.30  | ng    | -0.02    |

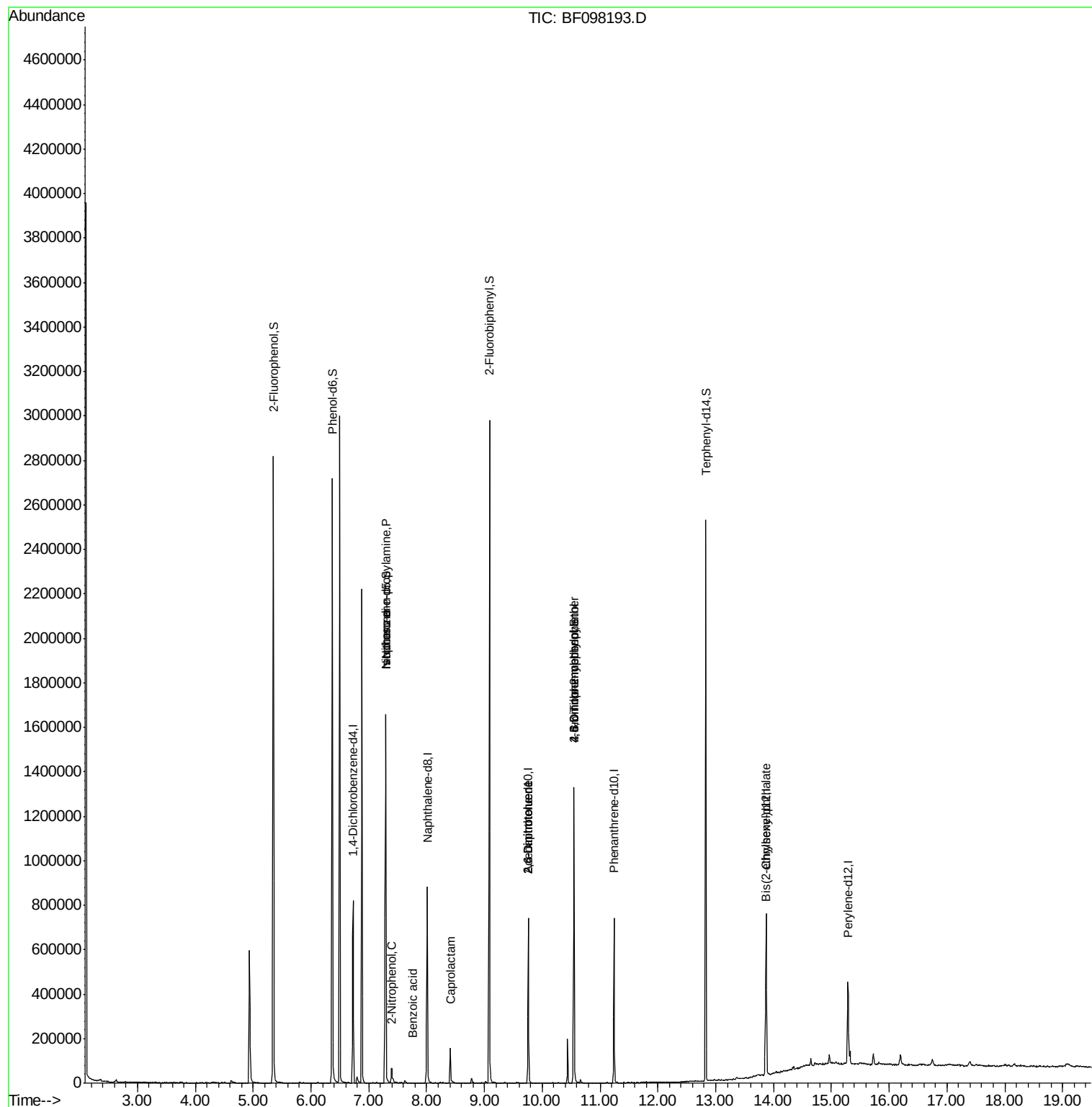
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 83854    | 12.207 | ng    | # 71   |
| 25) Isophorone                 | 7.29  | 82   | 617225   | 39.416 | ng    | # 67   |
| 26) 2-Nitrophenol              | 7.40  | 139  | 513      | 5.408  | ng    | # 40   |
| 32) Benzoic acid               | 7.77  | 122  | 107      | 6.424  | ng    | # 57   |
| 35) Caprolactam                | 8.41  | 113  | 16834    | 9.134  | ng    | # 93   |
| 50) 2,6-Dinitrotoluene         | 9.76  | 165  | 19128    | 8.675  | ng    | # 33   |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 19128    | 6.913  | ng    | # 32   |
| 64) 4,6-Dinitro-2-methylphenol | 10.55 | 198  | 296      | 8.519  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 10286    | 3.778  | ng    | # 1    |
| 83) Bis(2-ethylhexyl)phthalate | 13.86 | 149  | 74749    | 9.257  | ng    | # 99   |

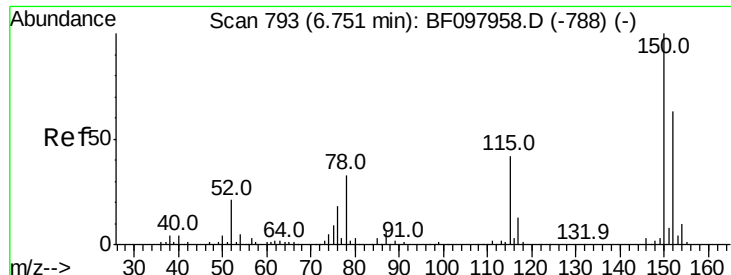
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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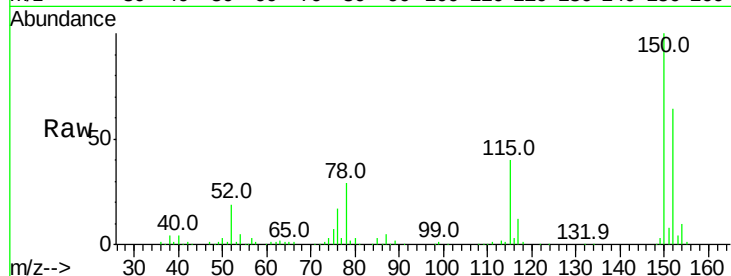


#1

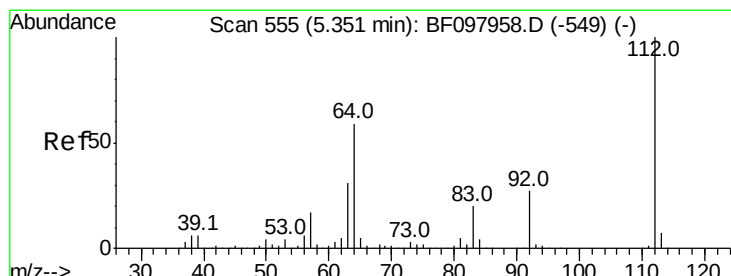
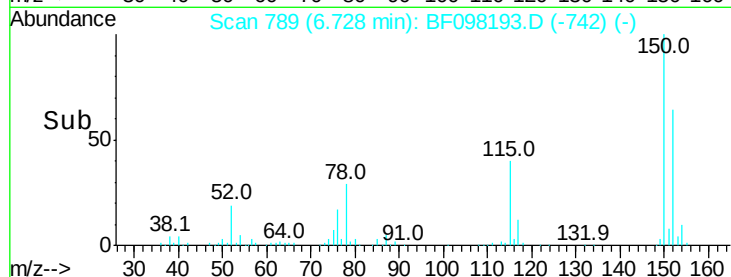
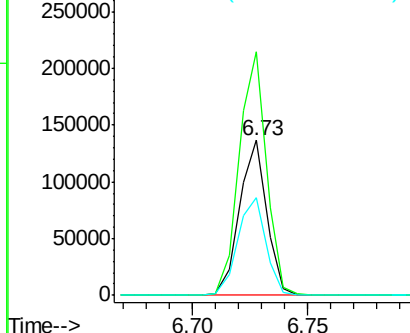
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. -0.02 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.2 | 126.2 | 189.2 |
| 115     | 62.9  | 52.2  | 78.2  |



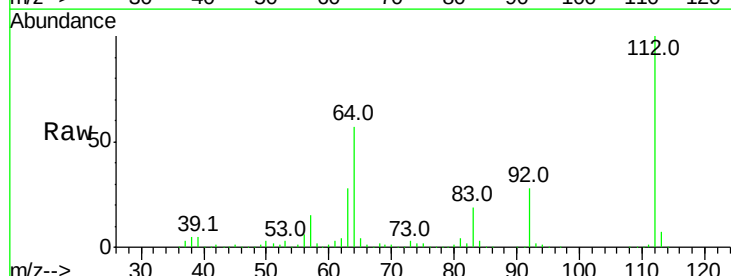
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



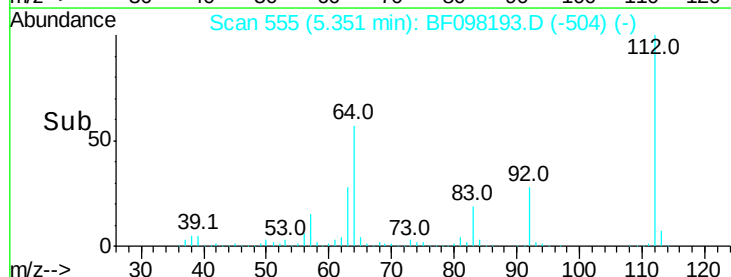
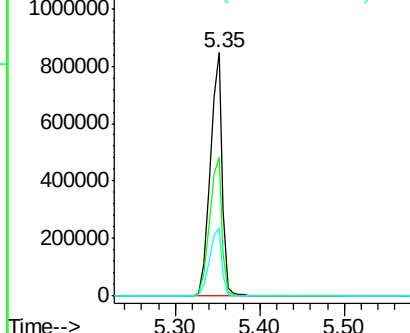
#5

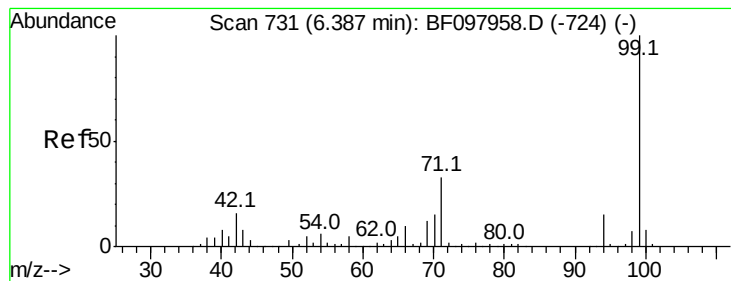
2-Fluorophenol  
Concen: 115.032 ng  
RT: 5.35 min Scan# 555  
Delta R.T. -0.00 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.0  | 46.0  | 69.0  |
| 63      | 28.3  | 23.4  | 35.0  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 109.782 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF098193.D

Acq: 31 Aug 2017 9:49

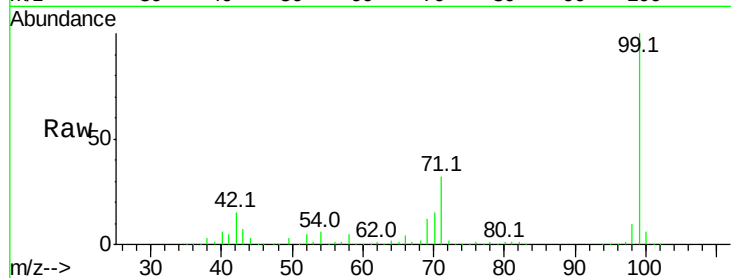
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1101640

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.1  | 13.5  | 20.3  |
| 71  | 32.4  | 24.5  | 36.7  |

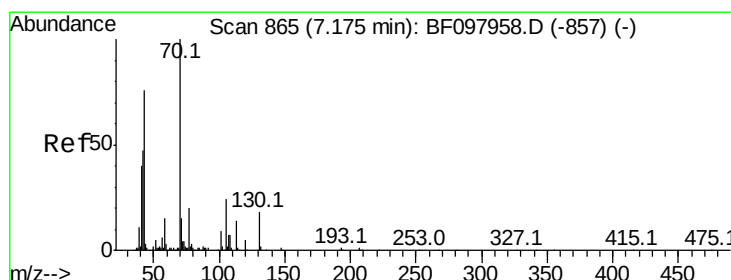
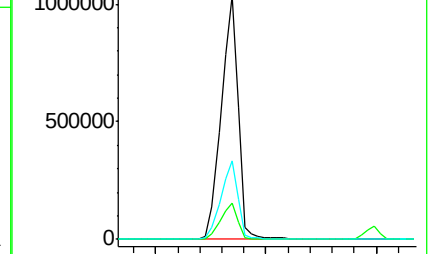
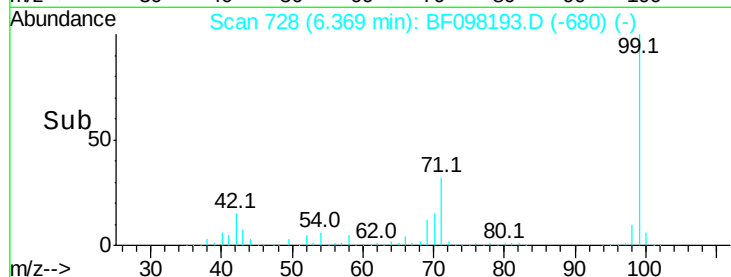


Abundance

Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 12.207 ng

RT: 7.29 min Scan# 885

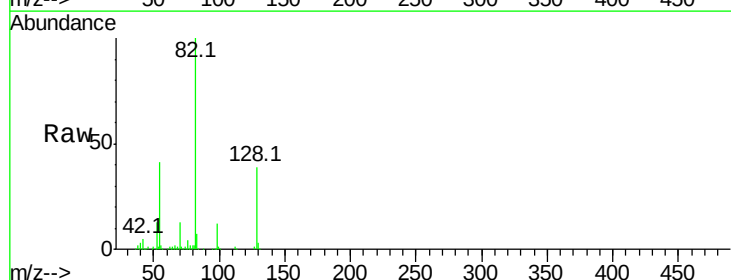
Delta R.T. 0.12 min

Lab File: BF098193.D

Acq: 31 Aug 2017 9:49

Tgt Ion: 70 Resp: 83854

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 39.2  | 47.2  | 70.8# |
| 101 | 0.0   | 7.2   | 10.8# |
| 130 | 1.7   | 15.9  | 23.9# |



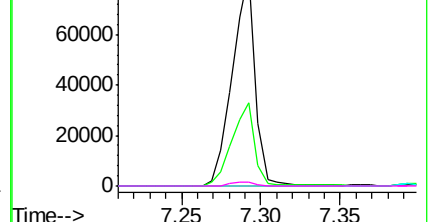
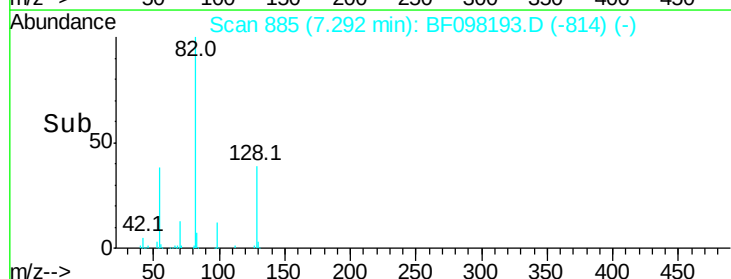
Abundance

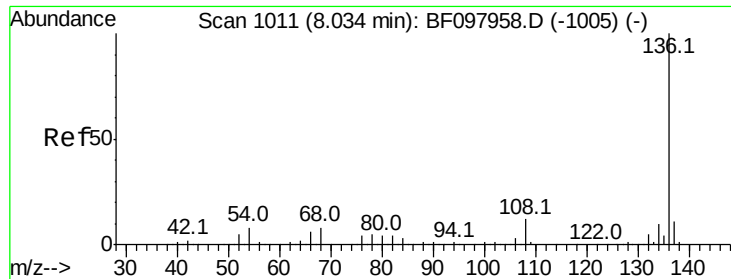
Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

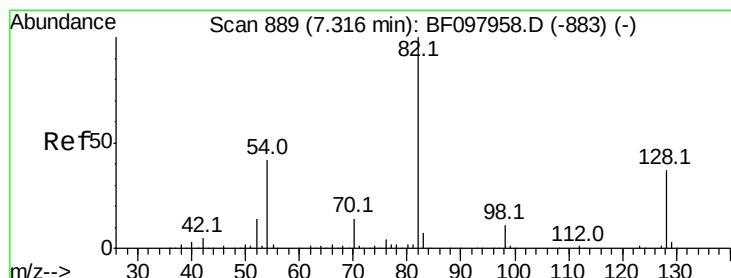
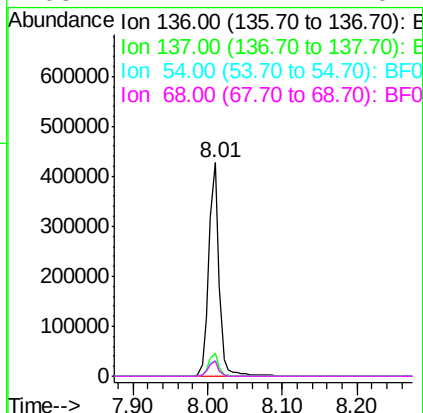
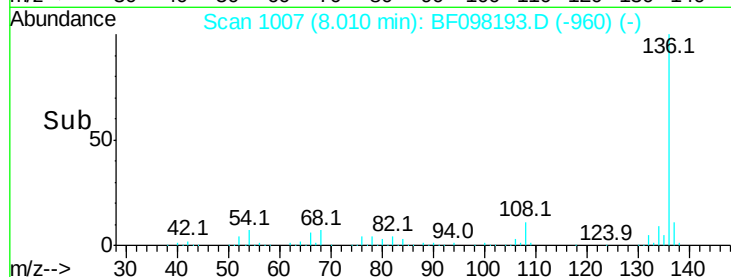
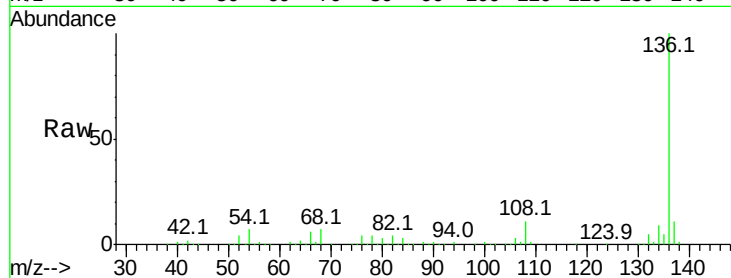




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.02 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

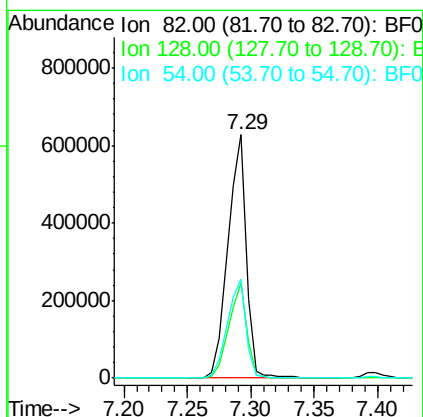
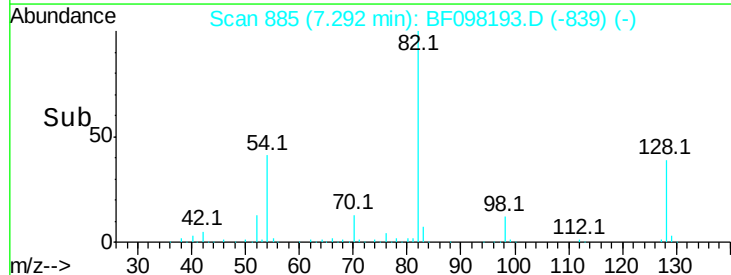
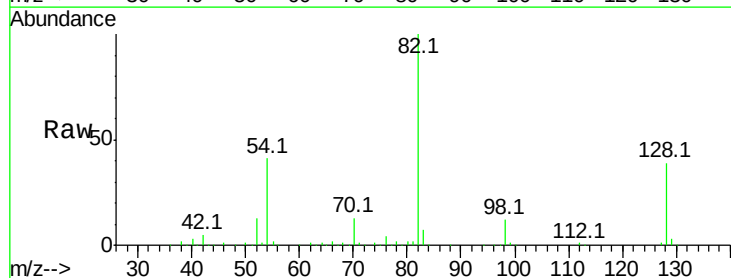
Instrument :  
BNA\_F  
ClientSampleId :

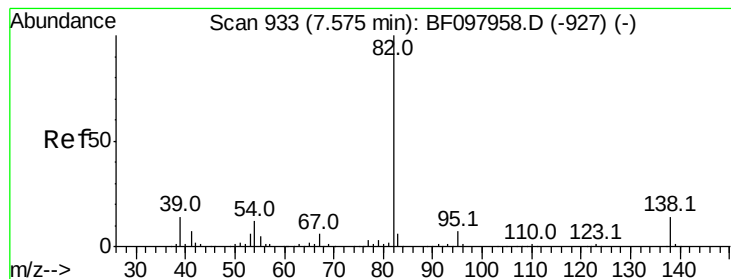
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 409108 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.5   | 12.7   |
| 54       | 7.0   | 4.9   | 7.3    |
| 68       | 7.1   | 4.1   | 6.1#   |



#23  
Nitrobenzene-d5  
Concen: 83.605 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.03 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 629610 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 39.2  | 34.0  | 51.0   |
| 54       | 40.8  | 42.2  | 63.2#  |





#25

Isophorone

Concen: 39.416 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.29 min

Lab File: BF098193.D

Acq: 31 Aug 2017 9:49

Instrument :

BNA\_F

ClientSampled :

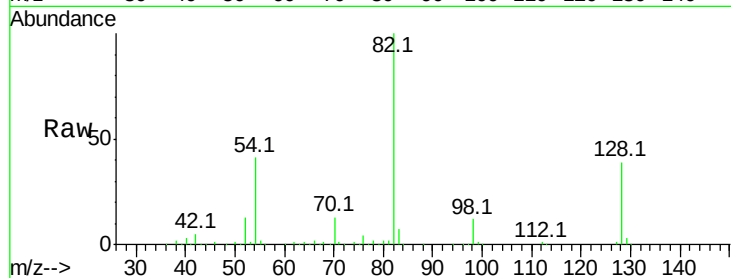
Tot Ion: 82 Resp: 617225

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

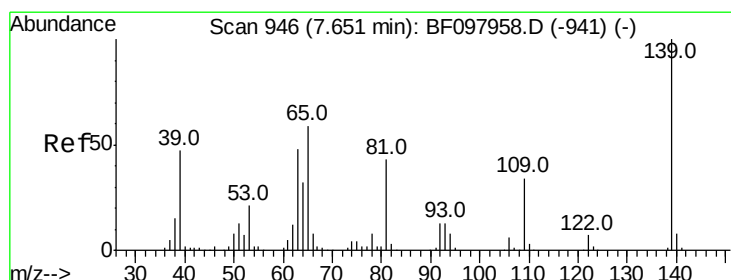
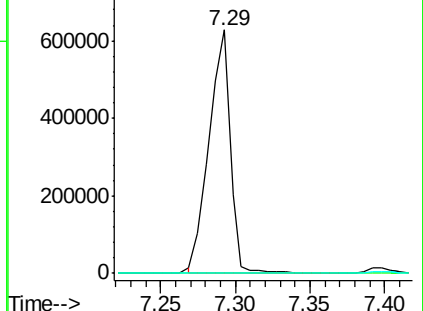
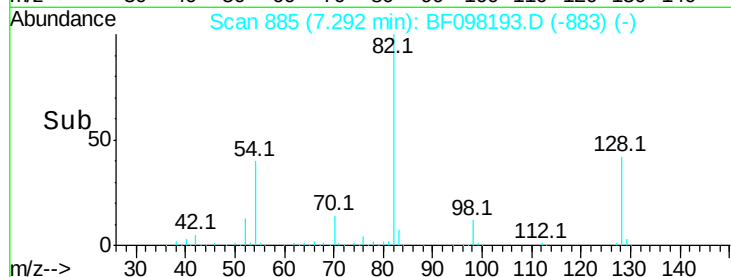
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#26

2-Nitrophenol

Concen: 5.408 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.25 min

Lab File: BF098193.D

Acq: 31 Aug 2017 9:49

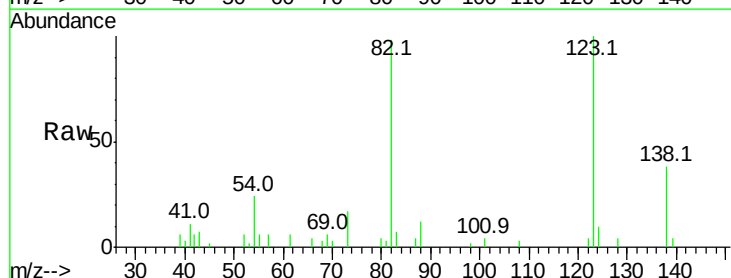
Tgt Ion: 139 Resp: 513

Ion Ratio Lower Upper

139 100

109 0.0 21.0 31.6#

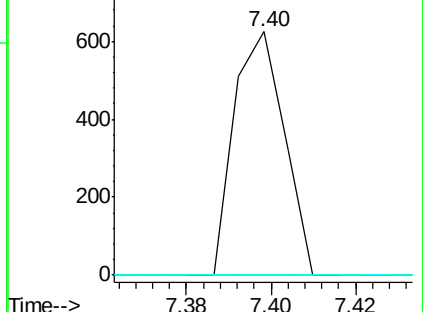
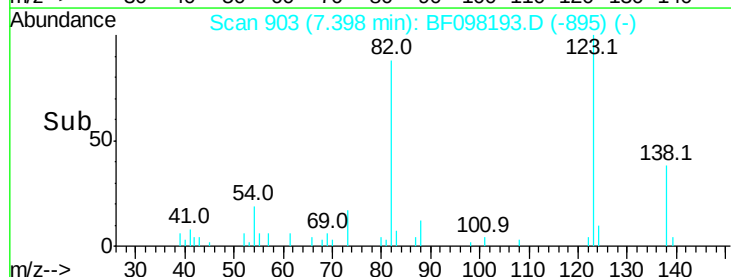
65 0.0 33.0 49.6#

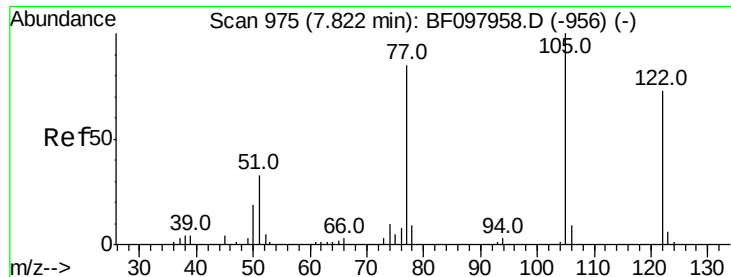


Abundance Ion 139.00 (138.70 to 139.70): BF0

Ion 109.00 (108.70 to 109.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

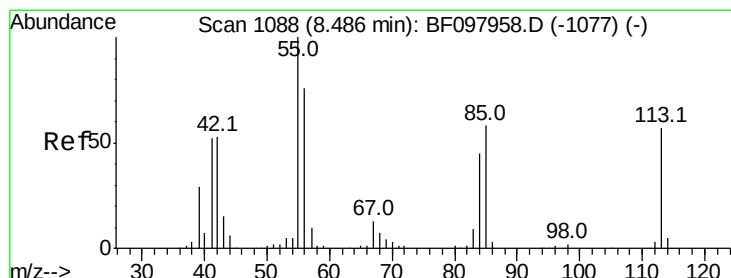
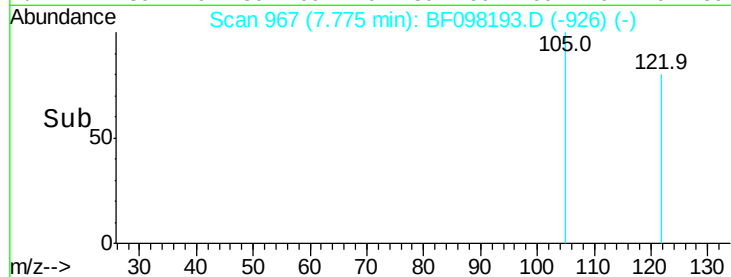
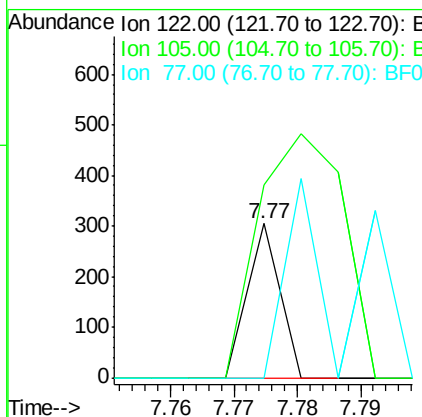
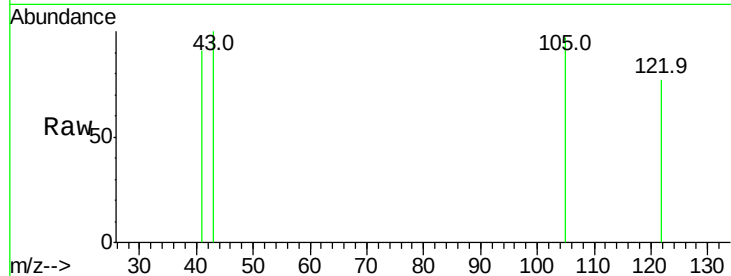




#32  
Benzoic acid  
Concen: 6.424 ng  
RT: 7.77 min Scan# 967  
Delta R.T. -0.06 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

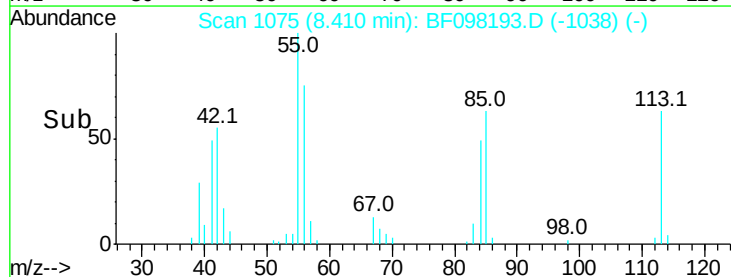
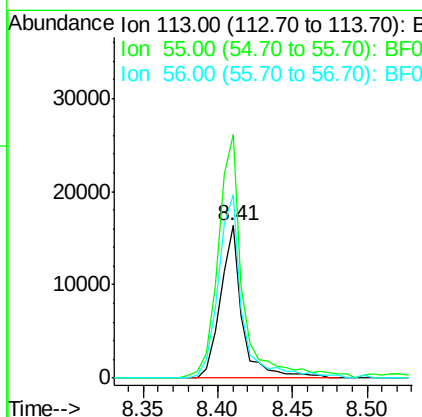
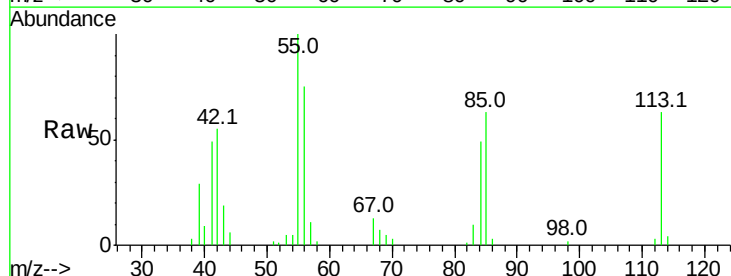
Instrument :  
BNA\_F  
ClientSampleId :

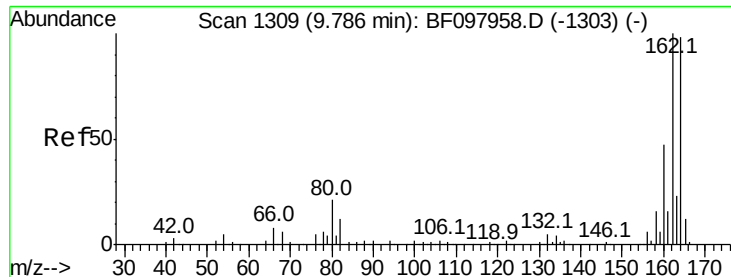
Tot Ion:122 Resp: 107  
Ion Ratio Lower Upper  
122 100  
105 125.7 103.3 143.3  
77 0.0 73.7 113.7#



#35  
Caprolactam  
Concen: 9.134 ng  
RT: 8.41 min Scan# 1075  
Delta R.T. -0.08 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

Tgt Ion:113 Resp: 16834  
Ion Ratio Lower Upper  
113 100  
55 160.0 150.2 190.2  
56 120.3 107.8 147.8

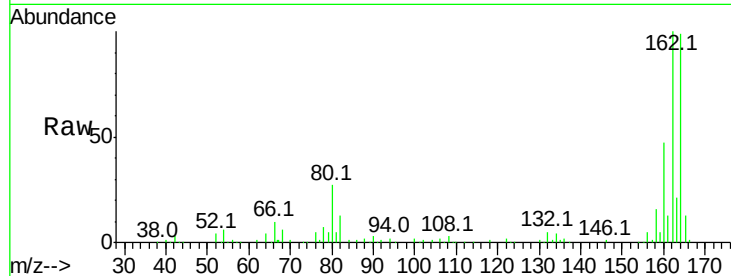




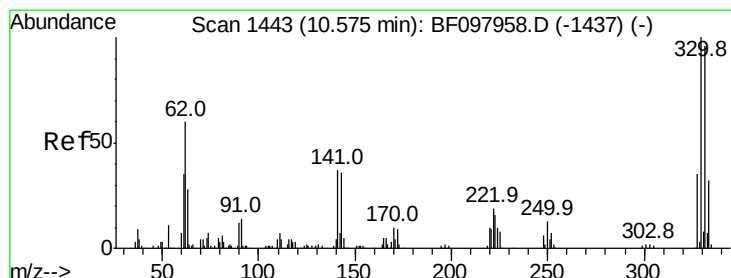
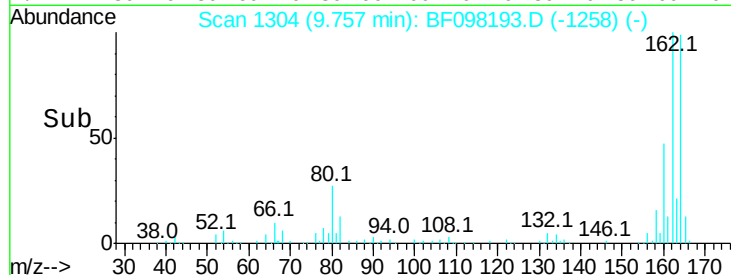
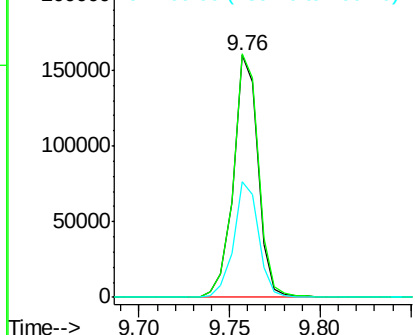
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.03 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 151118  
Ion Ratio Lower Upper  
164 100  
162 100.6 82.6 123.8  
160 47.8 36.2 54.2

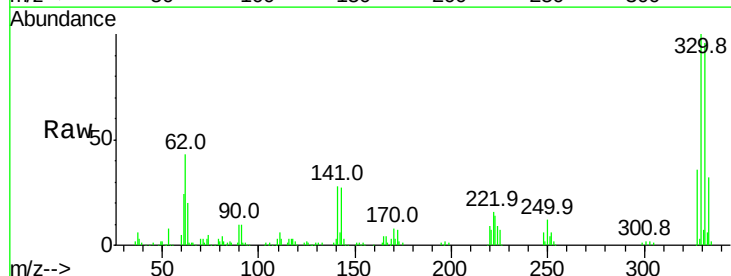


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

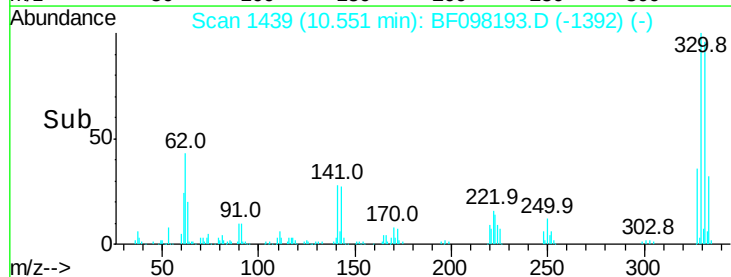
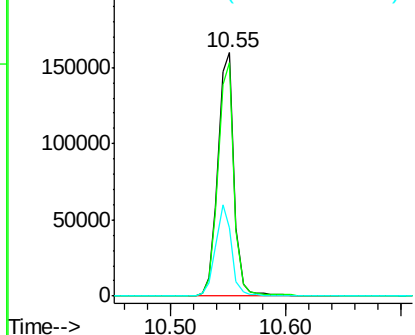


#41  
2,4,6-Tribromophenol  
Concen: 119.666 ng  
RT: 10.55 min Scan# 1439  
Delta R.T. -0.02 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

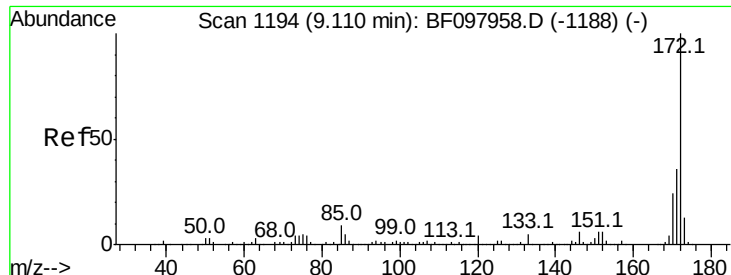
Tgt Ion:330 Resp: 156906  
Ion Ratio Lower Upper  
330 100  
332 95.1 76.6 115.0  
141 36.7 31.4 47.2



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



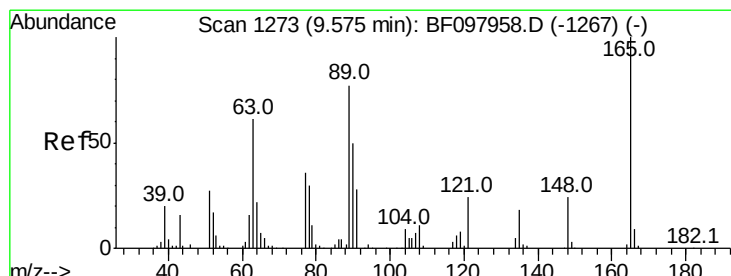
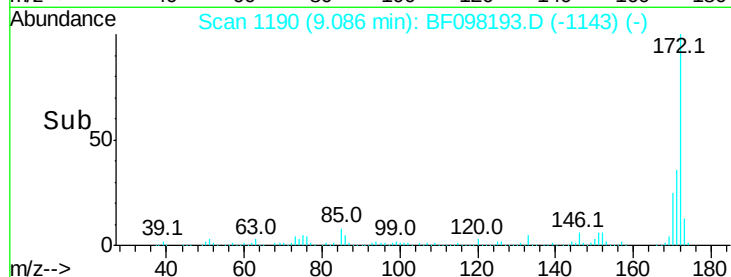
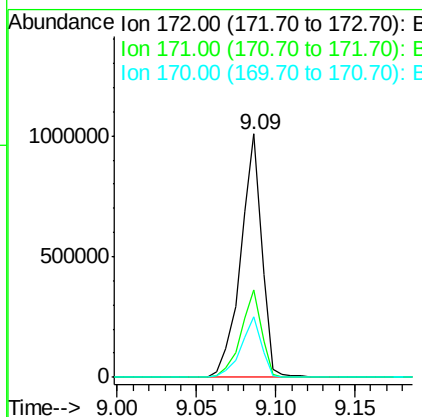
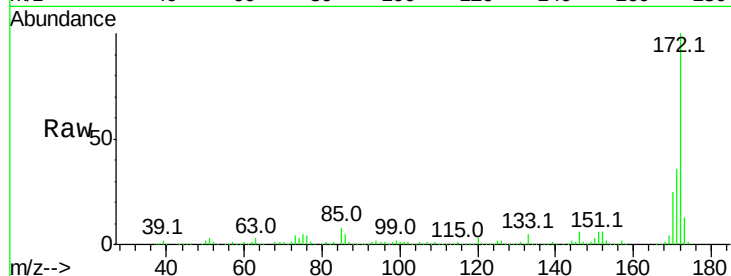




#44  
 2-Fluorobiphenyl  
 Concen: 90.093 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.02 min  
 Lab File: BF098193.D  
 Acq: 31 Aug 2017 9:49

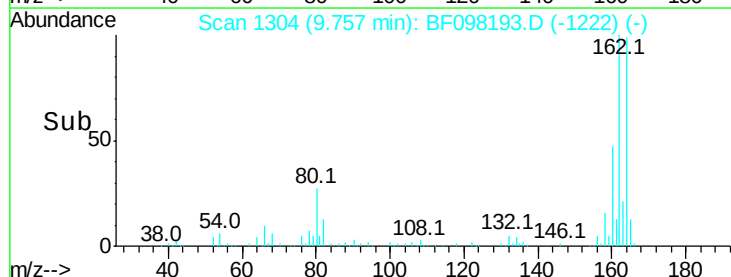
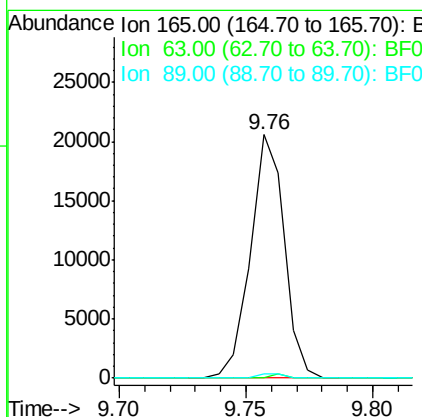
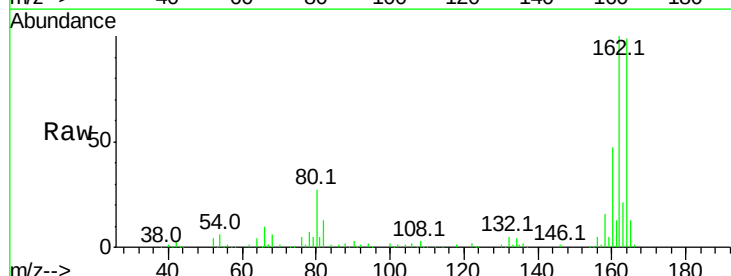
Instrument :  
 BNA\_F  
 ClientSampleId :

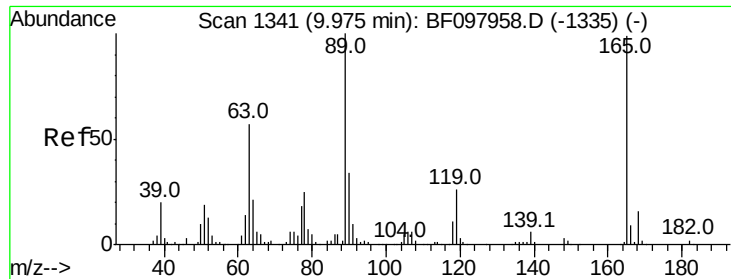
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.6  | 44.4  |
| 170     | 24.6  | 19.8  | 29.8  |



#50  
 2,6-Dinitrotoluene  
 Concen: 8.675 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. 0.18 min  
 Lab File: BF098193.D  
 Acq: 31 Aug 2017 9:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 1.5   | 37.1  | 55.7# |

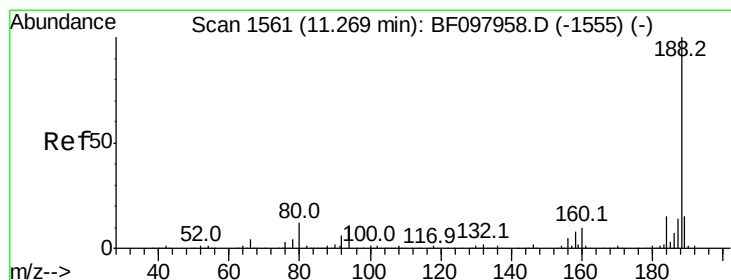
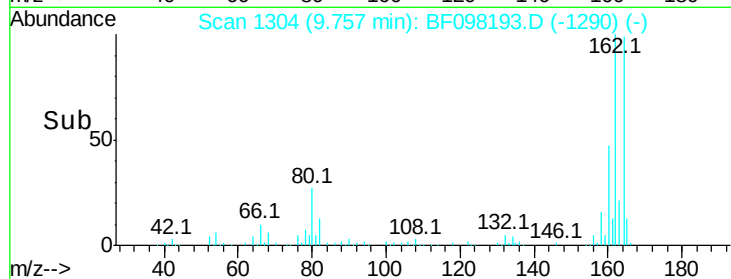
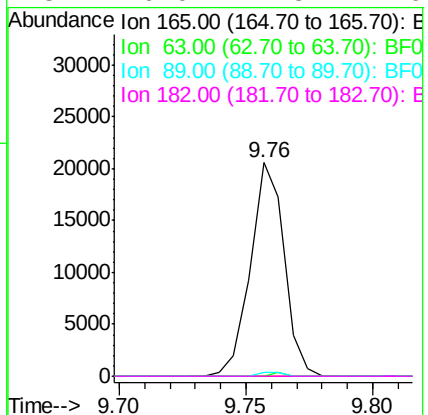
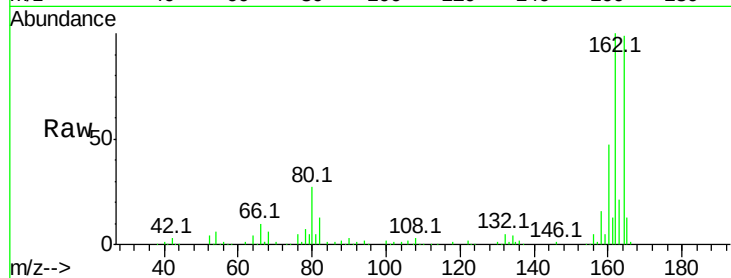




#56  
 2,4-Dinitrotoluene  
 Concen: 6.913 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.22 min  
 Lab File: BF098193.D  
 Acq: 31 Aug 2017 9:49

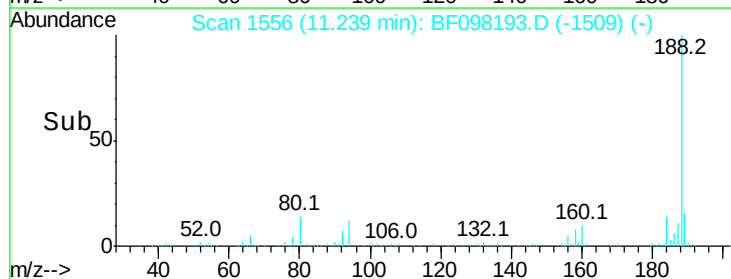
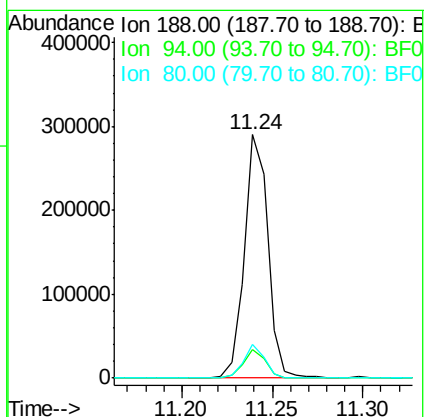
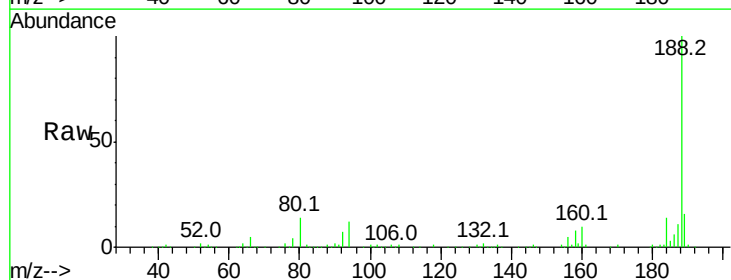
Instrument :  
 BNA\_F  
 ClientSampleId :

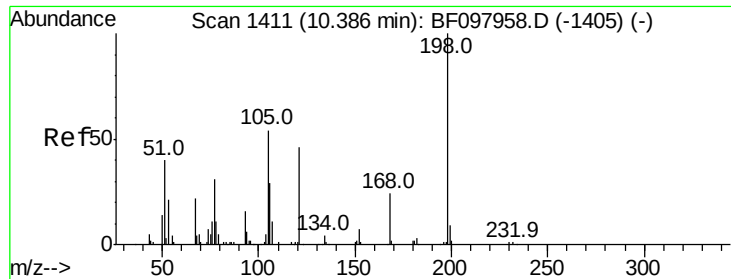
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 25.4  | 38.0# |
| 89      | 1.5   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.24 min Scan# 1556  
 Delta R.T. -0.02 min  
 Lab File: BF098193.D  
 Acq: 31 Aug 2017 9:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.9  | 9.4   | 14.2  |
| 80      | 13.6  | 10.2  | 15.2  |

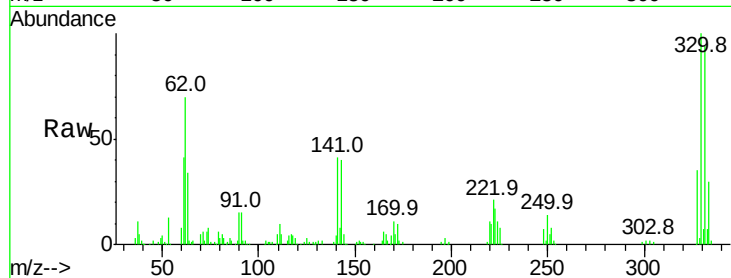




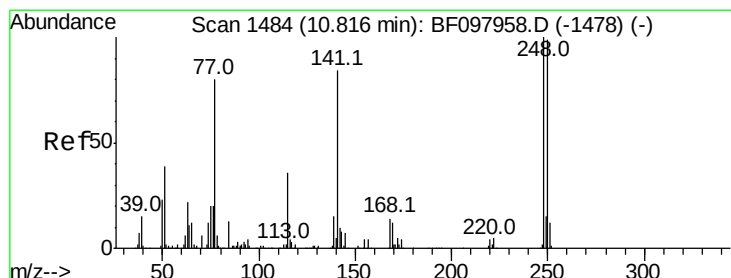
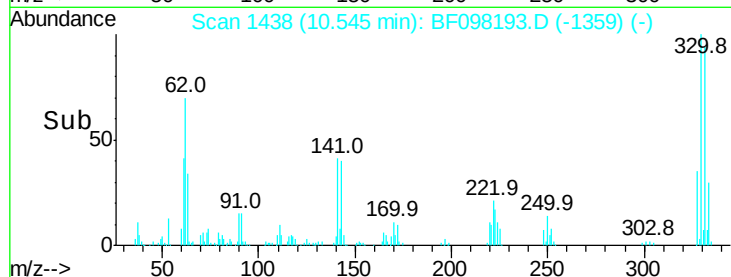
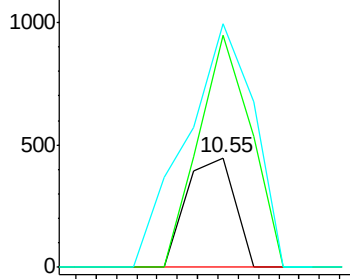
#64  
4,6-Dinitro-2-methylphenol  
Concen: 8.519 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. 0.16 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:198 Resp: 296  
Ion Ratio Lower Upper  
198 100  
51 212.1 53.2 93.2#  
105 222.6 45.8 85.8#

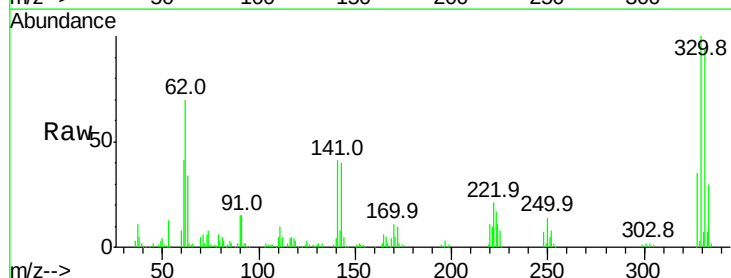


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E

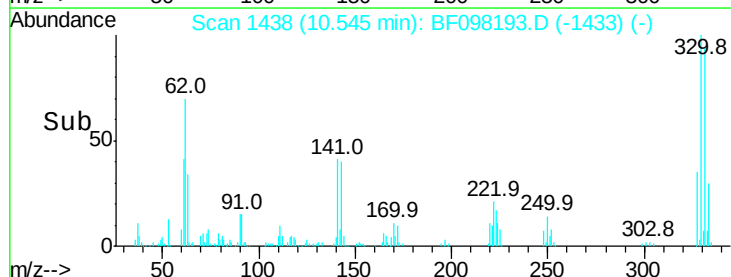
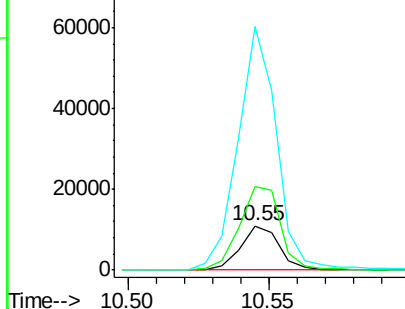


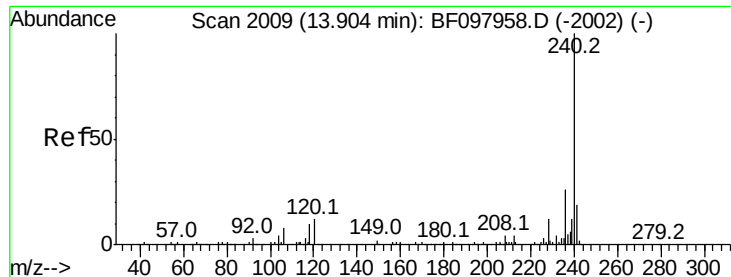
#66  
4-Bromophenyl-phenylether  
Concen: 3.778 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.27 min  
Lab File: BF098193.D  
Acq: 31 Aug 2017 9:49

Tgt Ion:248 Resp: 10286  
Ion Ratio Lower Upper  
248 100  
250 188.0 76.8 115.2#  
141 548.6 68.6 103.0#



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.02 min

Lab File: BF098193.D

Acq: 31 Aug 2017 9:49

Instrument :

BNA\_F

ClientSampleId :

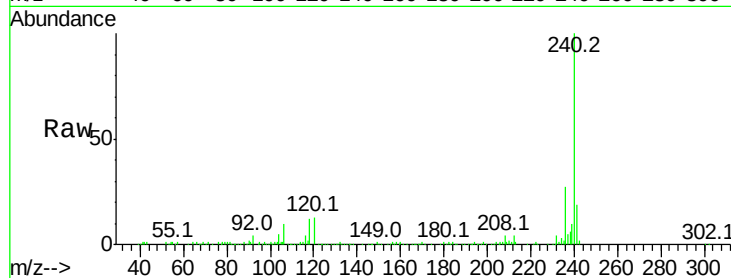
Tot Ion:240 Resp: 232390

Ion Ratio Lower Upper

240 100

120 13.3 5.8 8.8#

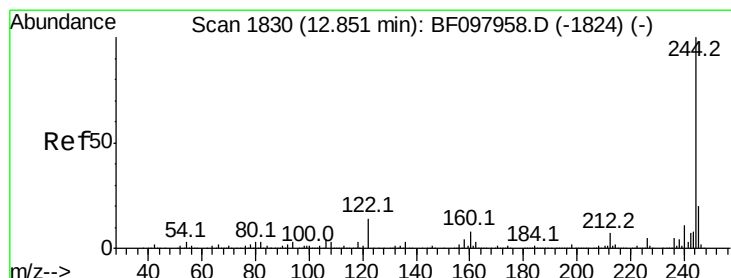
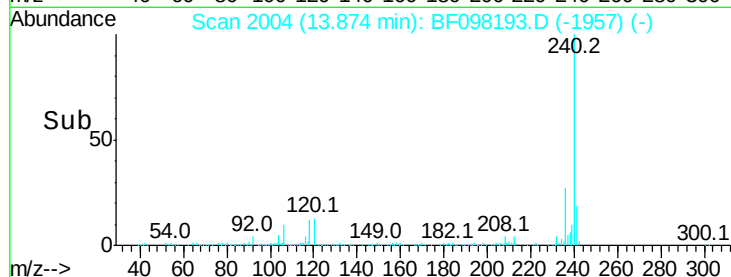
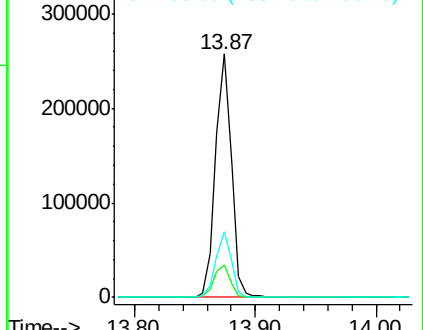
236 26.9 20.5 30.7



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: 70.295 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.02 min

Lab File: BF098193.D

Acq: 31 Aug 2017 9:49

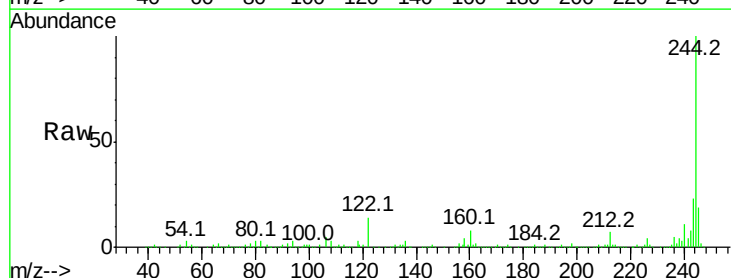
Tgt Ion:244 Resp: 783370

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

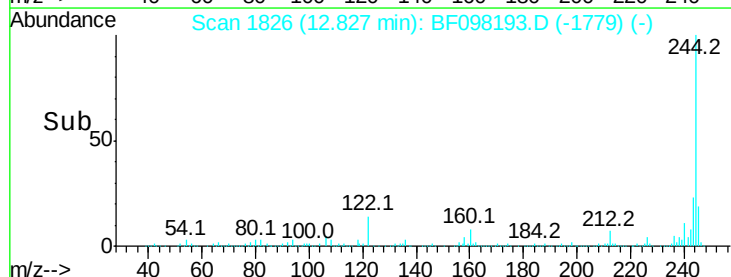
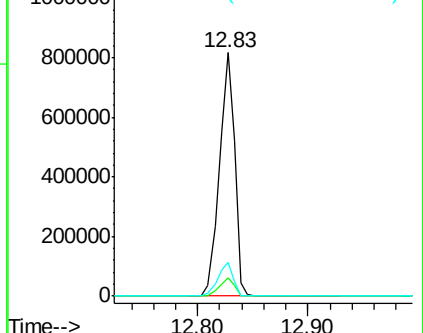
122 13.6 10.3 15.5

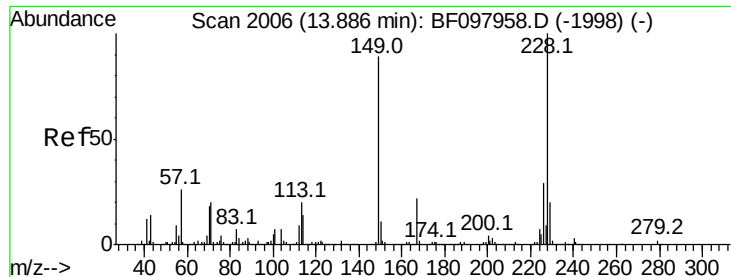


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 9.257 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.02 min

Lab File: BF098193.D

Acq: 31 Aug 2017 9:49

Instrument :

BNA\_F

ClientSampled :

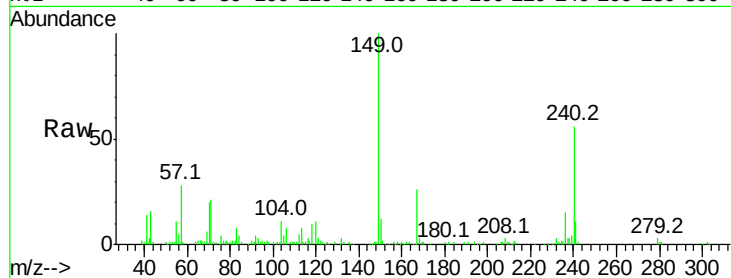
Tot Ion:149 Resp: 74749

Ion Ratio Lower Upper

149 100

167 26.3 21.0 31.4

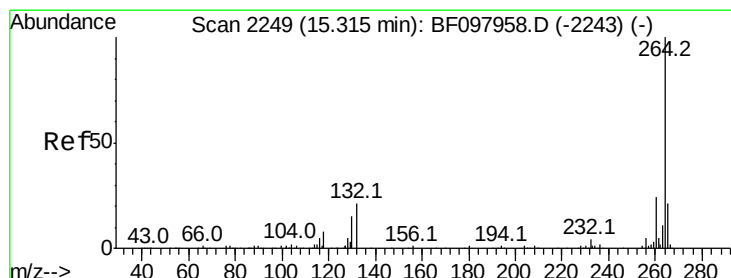
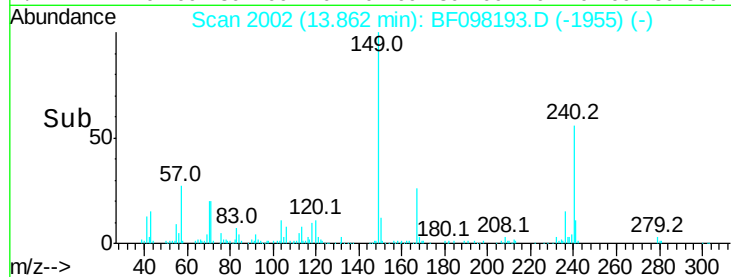
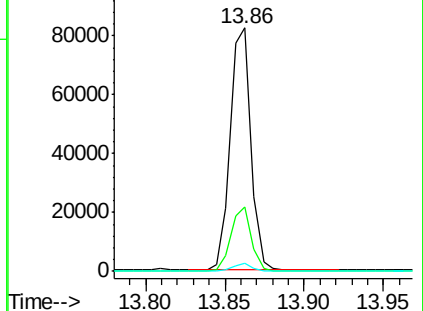
279 3.5 1.9 2.9#



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.29 min Scan# 2244

Delta R.T. -0.02 min

Lab File: BF098193.D

Acq: 31 Aug 2017 9:49

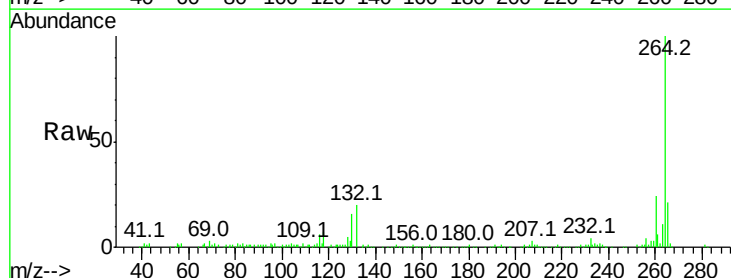
Tgt Ion:264 Resp: 156892

Ion Ratio Lower Upper

264 100

260 23.9 19.5 29.3

265 21.4 17.2 25.8



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

