

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101917\  
 Data File : BF099675.D  
 Acq On : 19 Oct 2017 23:43  
 Operator : SJ/JU  
 Sample : I5884-05  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 20 12:52:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 19 19:55:56 2017  
 Response via : Initial Calibration

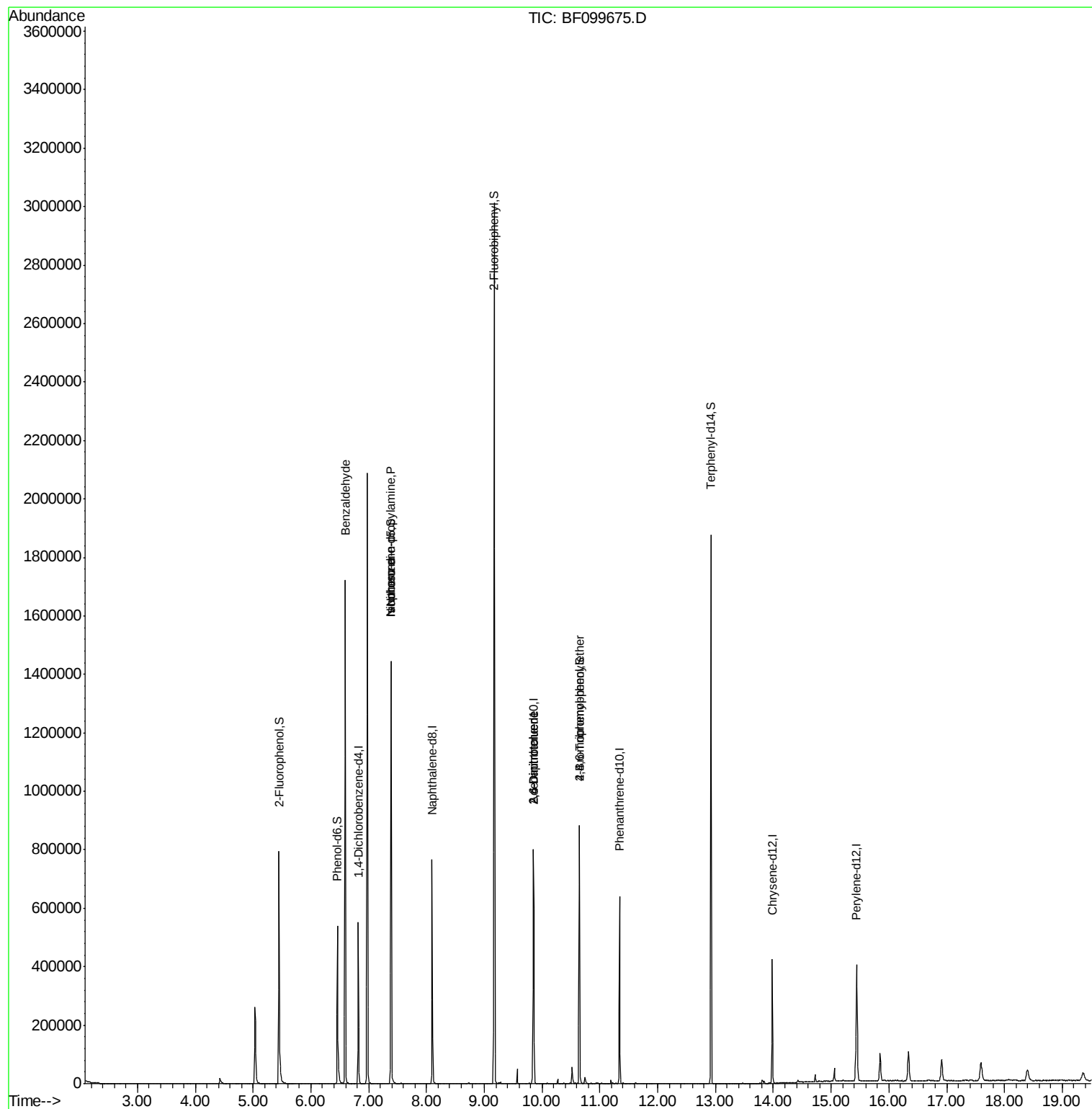
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 89511    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.10  | 136  | 361679   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.85  | 164  | 152786   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.34 | 188  | 215875   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.99 | 240  | 150011   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.44 | 264  | 168057   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.45  | 112  | 269186   | 47.87  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.46  | 99   | 209322   | 30.18  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 549231   | 97.39  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.65 | 330  | 103463   | 82.76  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 1010728  | 110.44 | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.92 | 244  | 615119   | 93.25  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.59  | 77   | 8377     | 2.082  | ng    | 86       |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 67442    | 15.229 | ng    | # 74     |
| 25) Isophorone                 | 7.39  | 82   | 549227   | 47.103 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 19408    | 7.731  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 19408    | 5.957  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.65 | 248  | 7163     | 3.390  | ng    | # 1      |

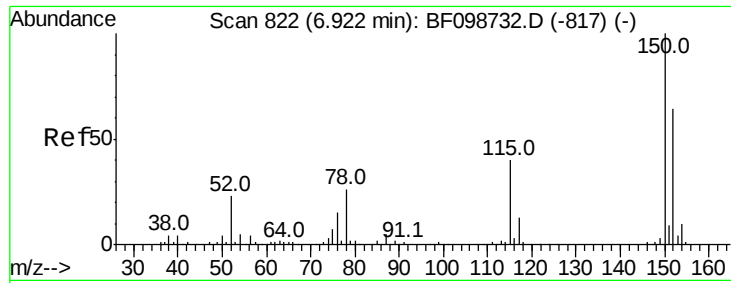
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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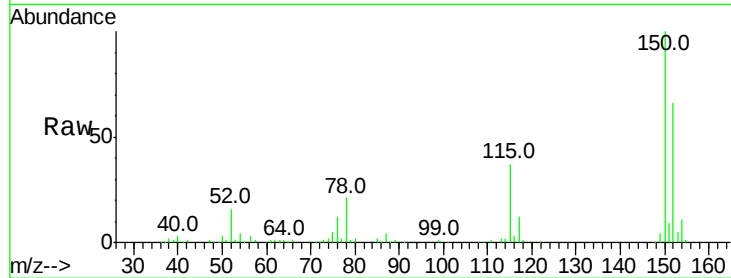




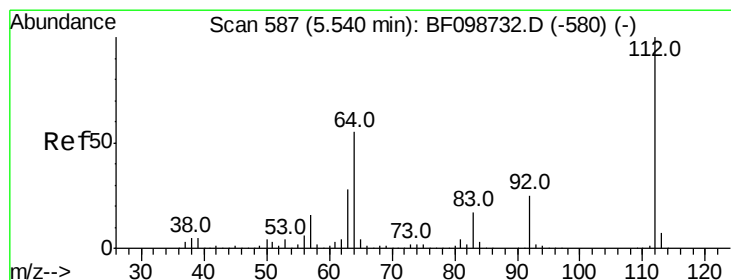
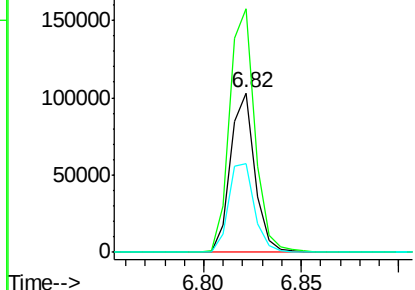
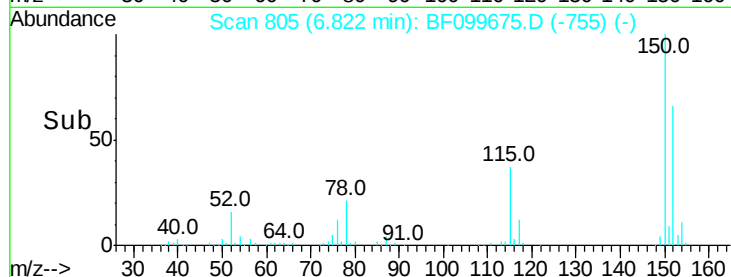
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.82 min Scan# 805  
 Delta R.T. -0.01 min  
 Lab File: BF099675.D  
 Acq: 19 Oct 2017 23:43

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 89511  
 Ion Ratio Lower Upper  
 152 100  
 150 152.4 124.6 186.8  
 115 55.8 50.1 75.1

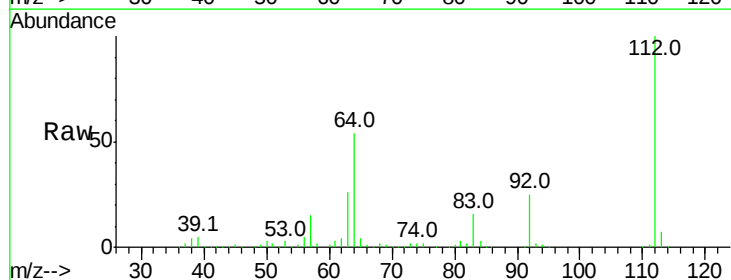


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

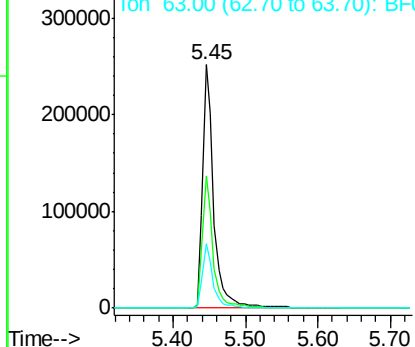
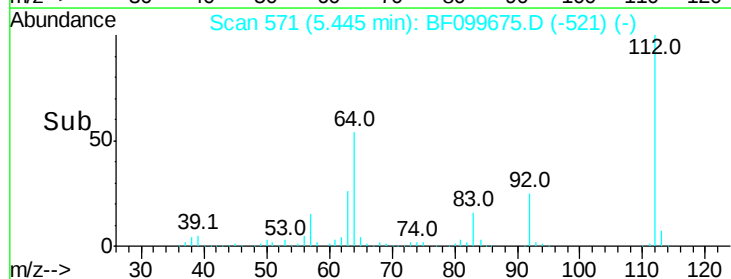


#5  
 2-Fluorophenol  
 Concen: 47.873 ng  
 RT: 5.45 min Scan# 571  
 Delta R.T. -0.01 min  
 Lab File: BF099675.D  
 Acq: 19 Oct 2017 23:43

Tgt Ion:112 Resp: 269186  
 Ion Ratio Lower Upper  
 112 100  
 64 54.4 47.9 71.9  
 63 26.3 23.7 35.5



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: 30.177 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.02 min

Lab File: BF099675.D

Acq: 19 Oct 2017 23:43

Instrument :

BNA\_F

ClientSampled :

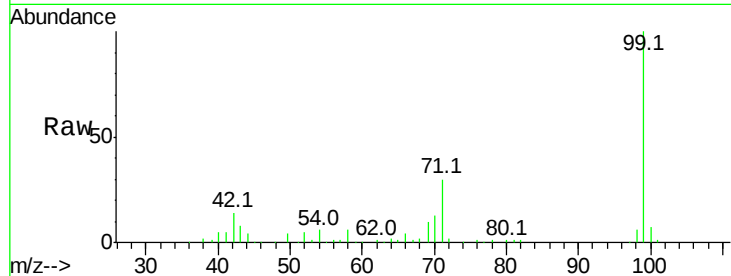
Tot Ion: 99 Resp: 209322

Ion Ratio Lower Upper

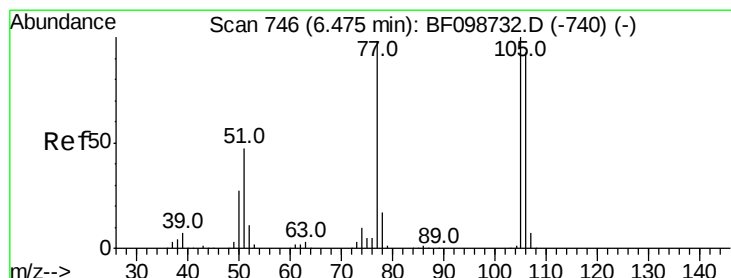
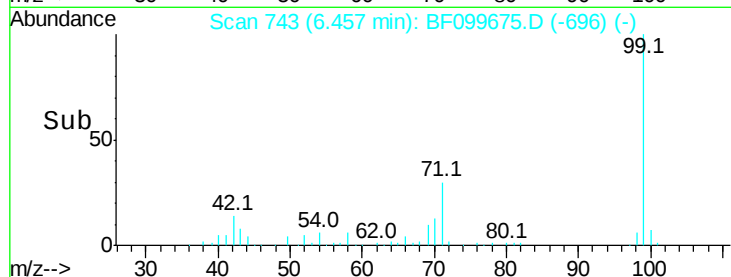
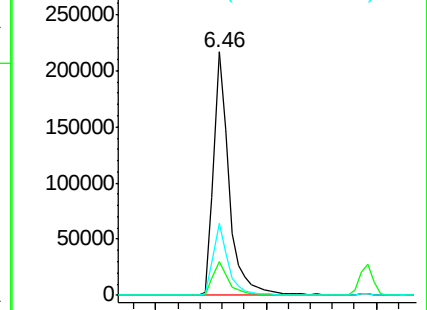
99 100

42 14.0 14.5 21.7#

71 29.7 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.082 ng

RT: 6.59 min Scan# 766

Delta R.T. 0.21 min

Lab File: BF099675.D

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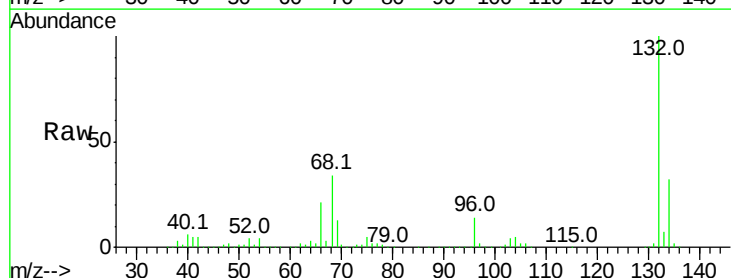
Tgt Ion: 77 Resp: 8377

Ion Ratio Lower Upper

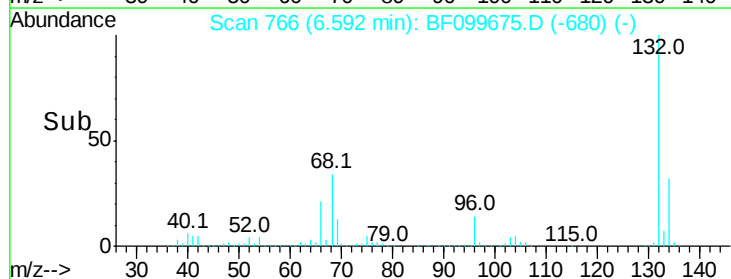
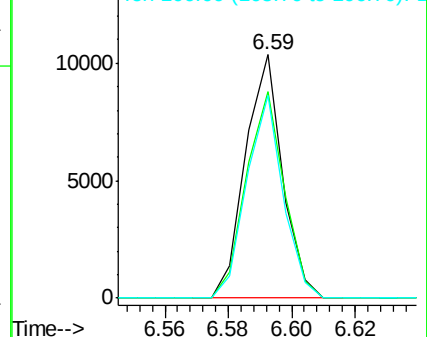
77 100

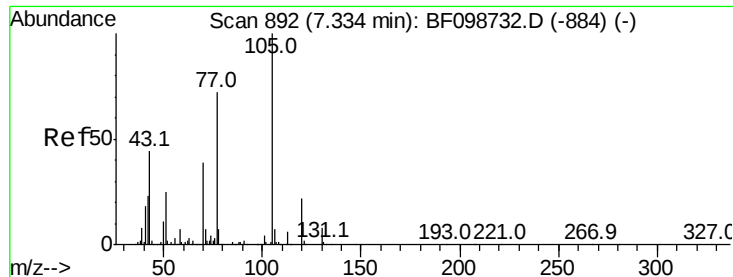
105 84.9 81.1 121.1

106 83.4 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E

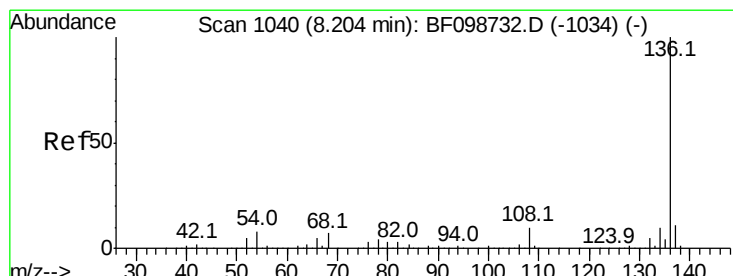
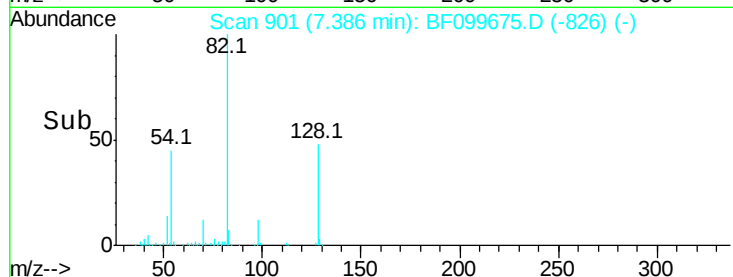
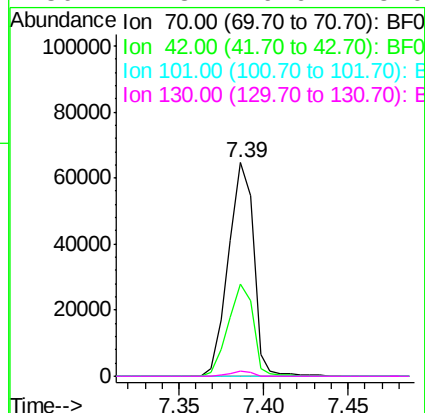
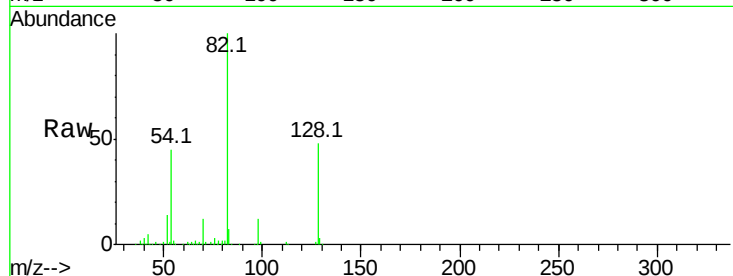




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.229 ng  
RT: 7.39 min Scan# 901  
Delta R.T. 0.14 min  
Lab File: BF099675.D  
Acq: 19 Oct 2017 23:43

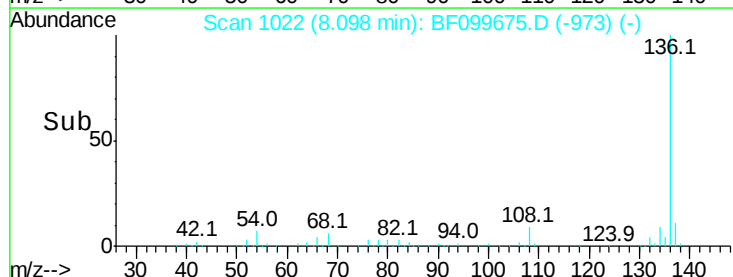
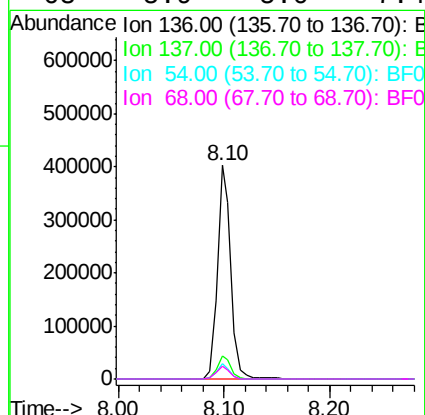
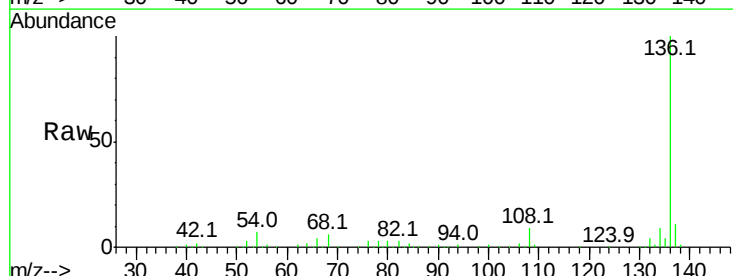
Instrument :  
BNA\_F  
ClientSampleId :

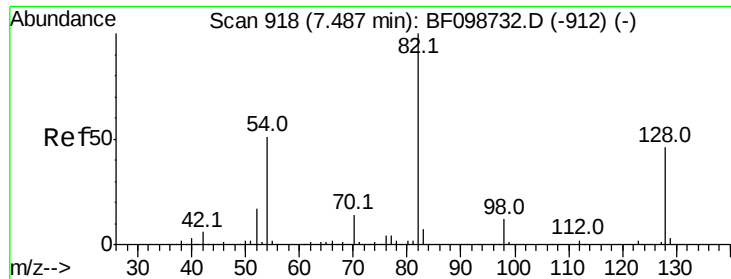
Tot Ion: 70 Resp: 67442  
Ion Ratio Lower Upper  
70 100  
42 43.3 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.3 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1022  
Delta R.T. -0.01 min  
Lab File: BF099675.D  
Acq: 19 Oct 2017 23:43

Tgt Ion: 136 Resp: 361679  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 7.4 6.6 9.8  
68 5.9 5.0 7.4

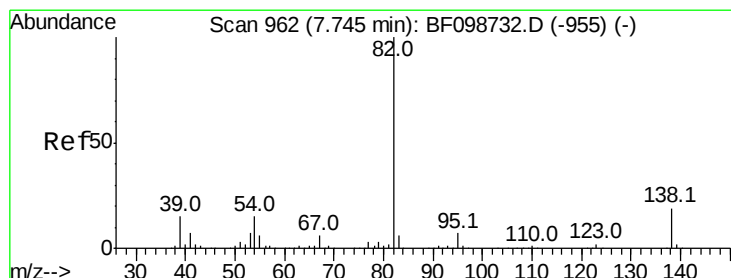
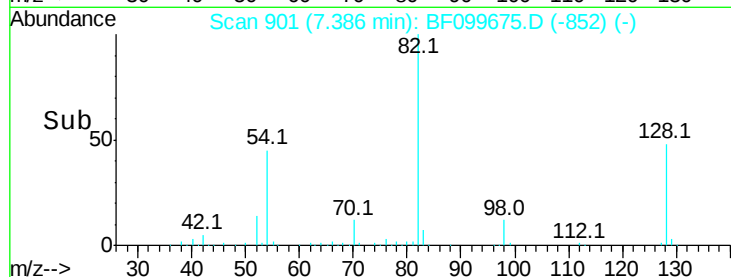
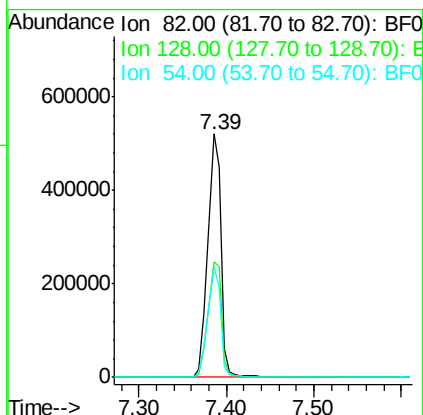
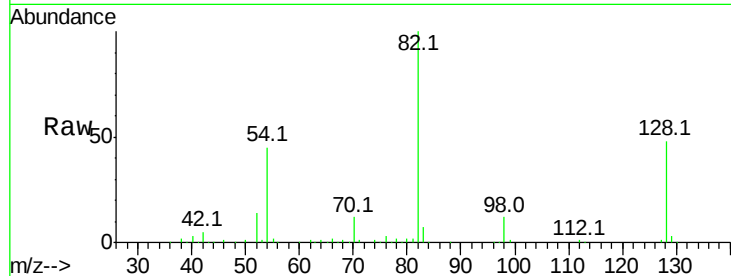




#23  
Nitrobenzene-d5  
Concen: 97.385 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: BF099675.D  
Acq: 19 Oct 2017 23:43

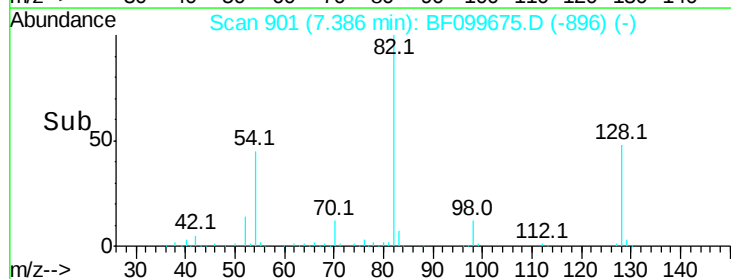
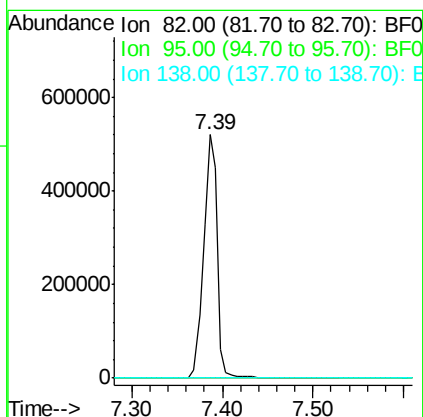
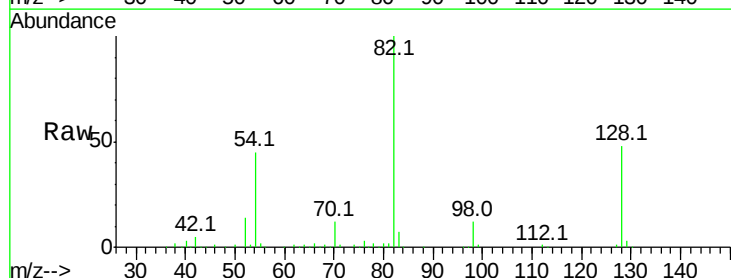
Instrument :  
BNA\_F  
ClientSampleId :

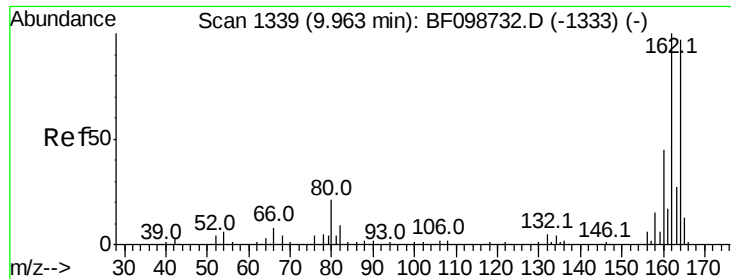
Tot Ion: 82 Resp: 549231  
Ion Ratio Lower Upper  
82 100  
128 47.7 36.1 54.1  
54 45.2 41.4 62.2



#25  
Isophorone  
Concen: 47.103 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.27 min  
Lab File: BF099675.D  
Acq: 19 Oct 2017 23:43

Tgt Ion: 82 Resp: 549227  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#

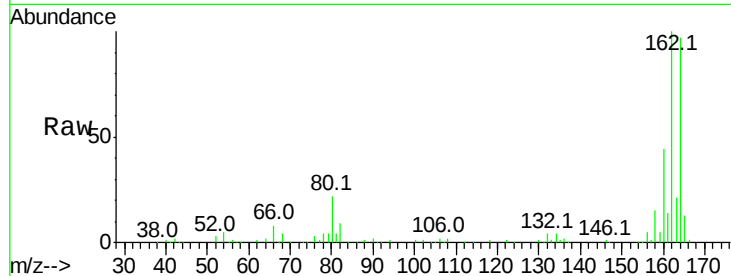




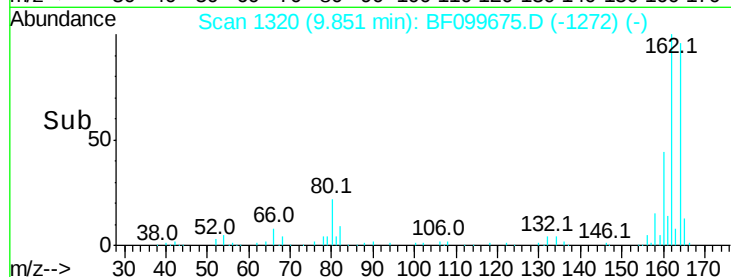
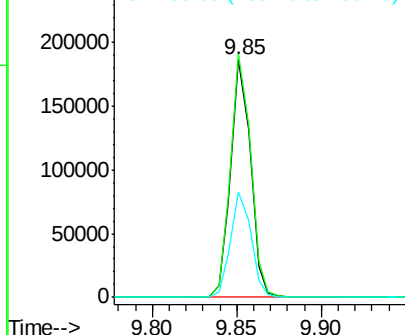
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.85 min Scan# 1320  
Delta R.T. -0.02 min  
Lab File: BF099675.D  
Acq: 19 Oct 2017 23:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 152786  
Ion Ratio Lower Upper  
164 100  
162 102.6 86.1 129.1  
160 44.7 38.3 57.5

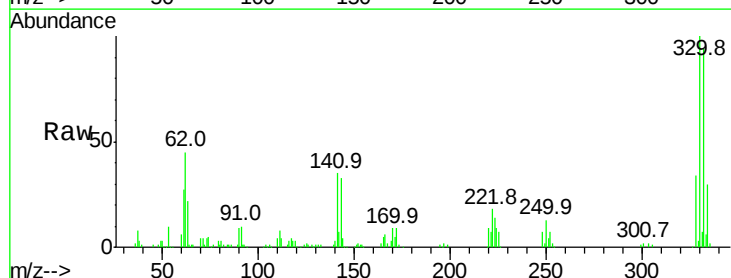


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

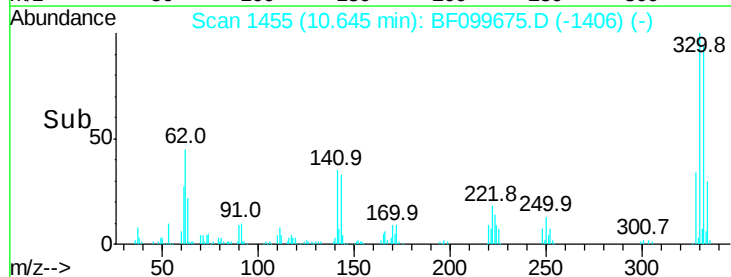
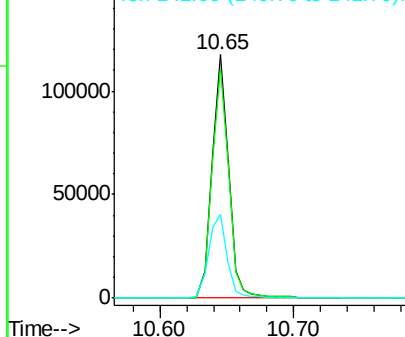


#41  
2,4,6-Tribromophenol  
Concen: 82.757 ng  
RT: 10.65 min Scan# 1455  
Delta R.T. -0.01 min  
Lab File: BF099675.D  
Acq: 19 Oct 2017 23:43

Tgt Ion:330 Resp: 103463  
Ion Ratio Lower Upper  
330 100  
332 95.4 77.0 115.6  
141 37.7 29.9 44.9



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



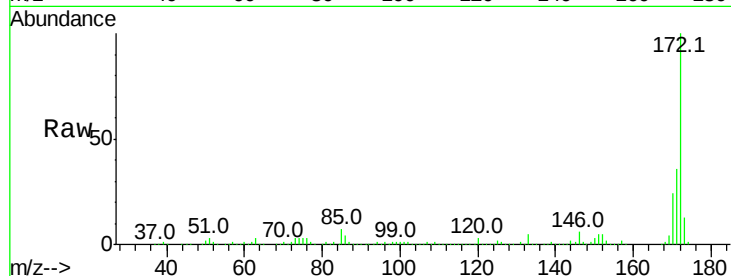


#44  
 2-Fluorobiphenyl  
 Concen: 110.437 ng  
 RT: 9.17 min Scan# 1205  
 Delta R.T. -0.01 min  
 Lab File: BF099675.D  
 Acq: 19 Oct 2017 23:43

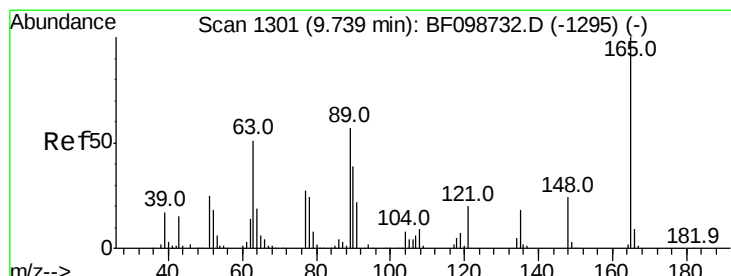
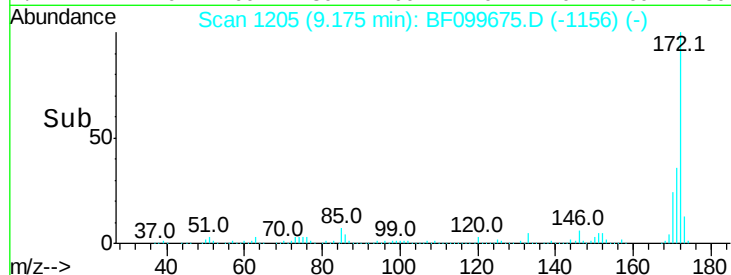
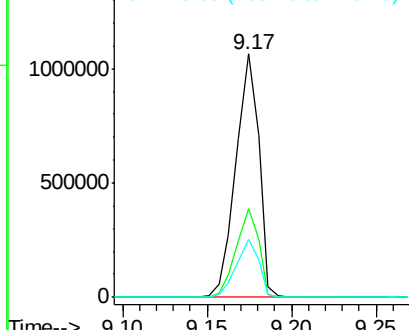
Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:172 Resp: 1010728  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.3  | 29.7  | 44.5  |
| 170 | 23.8  | 19.6  | 29.4  |



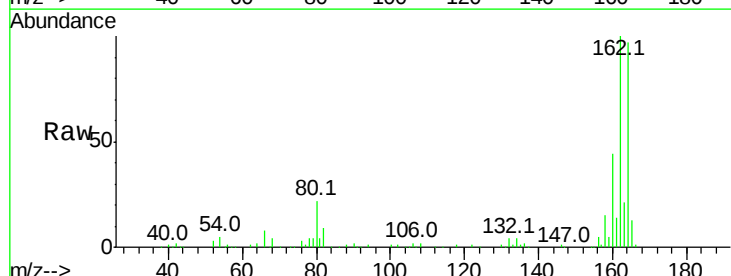
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E



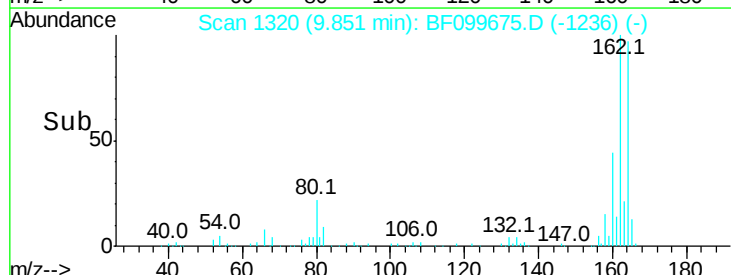
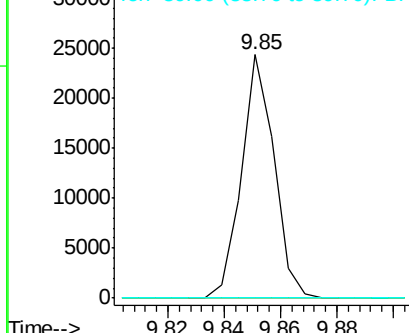
#50  
 2,6-Dinitrotoluene  
 Concen: 7.731 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. 0.19 min  
 Lab File: BF099675.D  
 Acq: 19 Oct 2017 23:43

Tgt Ion:165 Resp: 19408  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 0.0   | 44.7  | 67.1# |
| 89  | 0.0   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

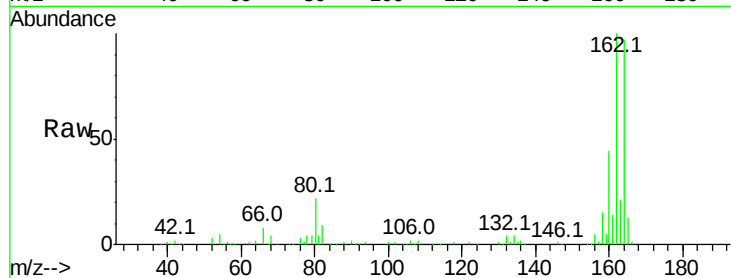




#56  
 2,4-Dinitrotoluene  
 Concen: 5.957 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. -0.22 min  
 Lab File: BF099675.D  
 Acq: 19 Oct 2017 23:43

Instrument :  
 BNA\_F  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 19408      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.0   | 36.4 54.6# |
| 89          | 0.0   | 57.8 86.6# |
| 182         | 0.0   | 1.6 2.4#   |

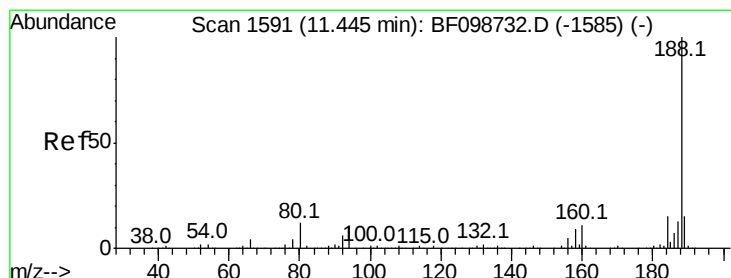
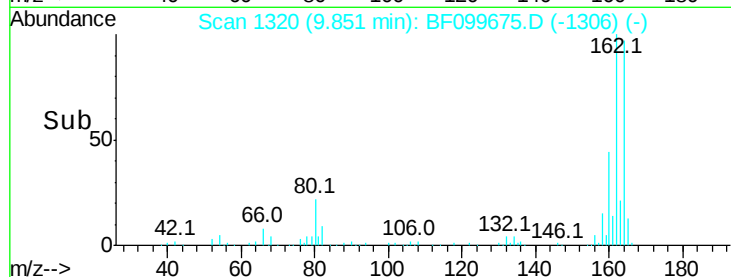
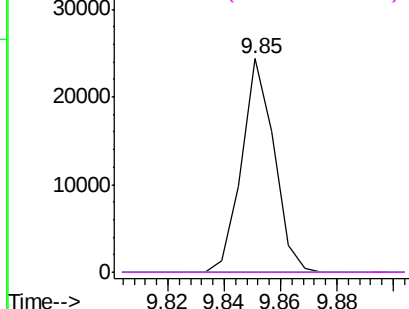


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



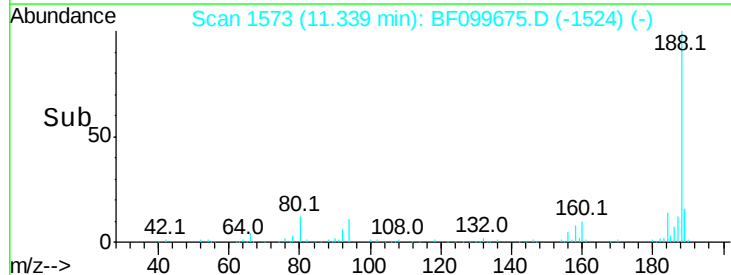
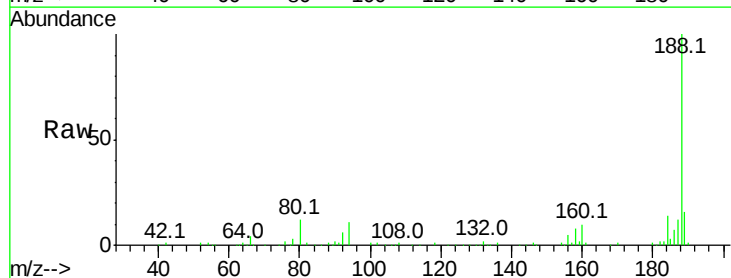
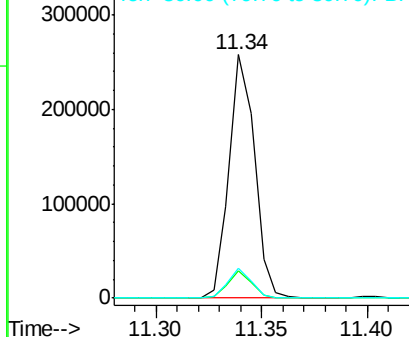
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.34 min Scan# 1573  
 Delta R.T. -0.01 min  
 Lab File: BF099675.D  
 Acq: 19 Oct 2017 23:43

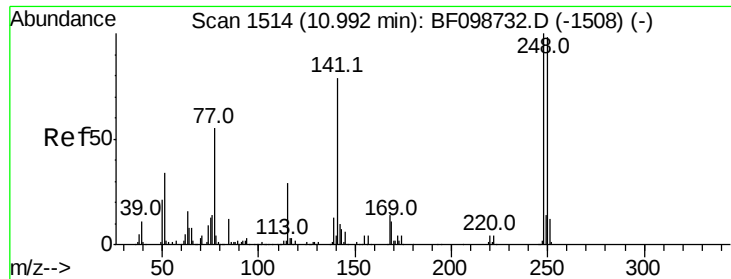
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 215875   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 11.2  | 8.5 12.7 |
| 80          | 12.1  | 9.2 13.8 |

Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

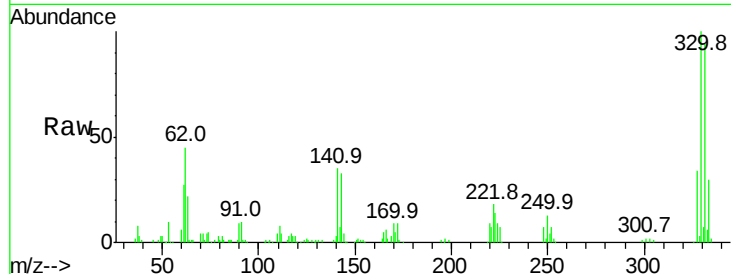




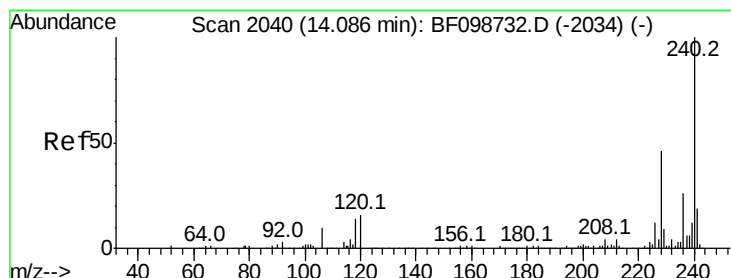
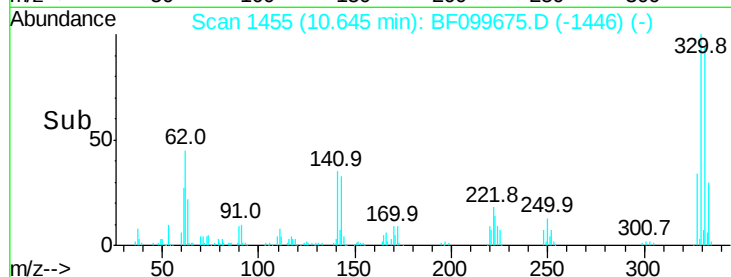
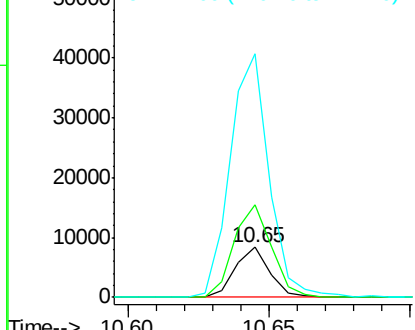
#66  
4-Bromophenyl-phenylether  
Concen: 3.390 ng  
RT: 10.65 min Scan# 1455  
Delta R.T. -0.25 min  
Lab File: BF099675.D  
Acq: 19 Oct 2017 23:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 7163  
Ion Ratio Lower Upper  
248 100  
250 183.8 76.9 115.3#  
141 484.7 74.4 111.6#

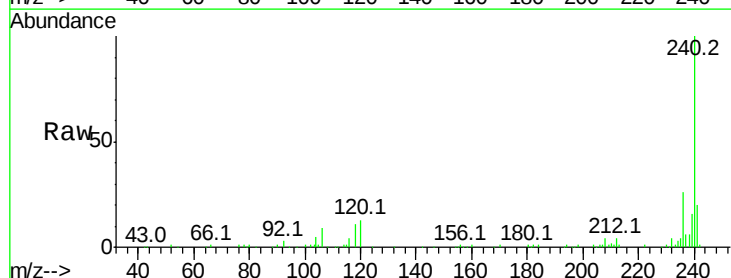


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

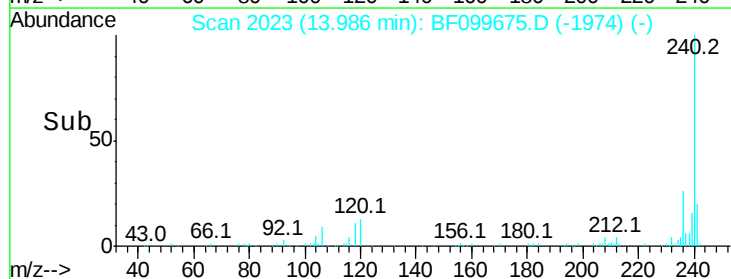
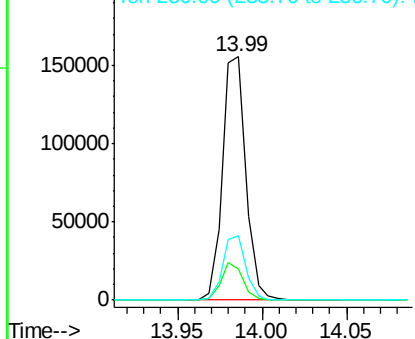


#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.99 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BF099675.D  
Acq: 19 Oct 2017 23:43

Tgt Ion:240 Resp: 150011  
Ion Ratio Lower Upper  
240 100  
120 12.8 9.5 14.3  
236 26.2 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

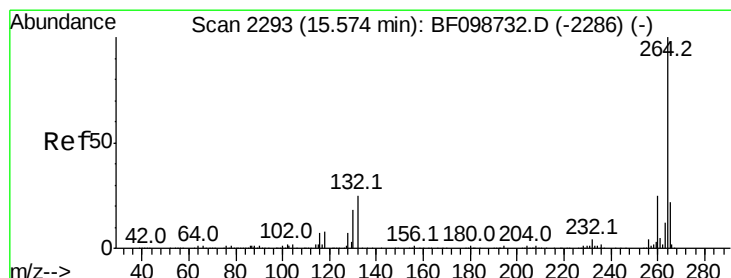
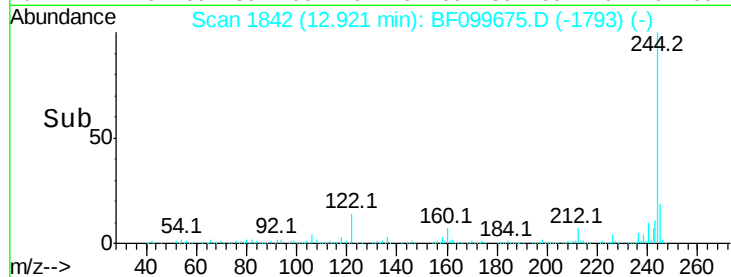
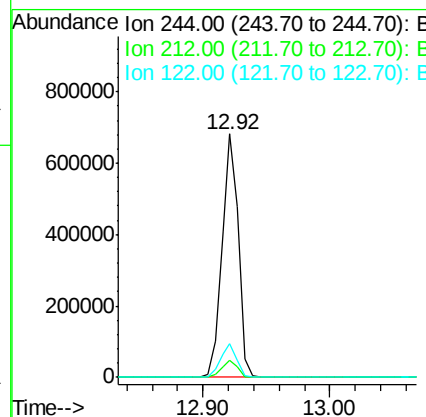
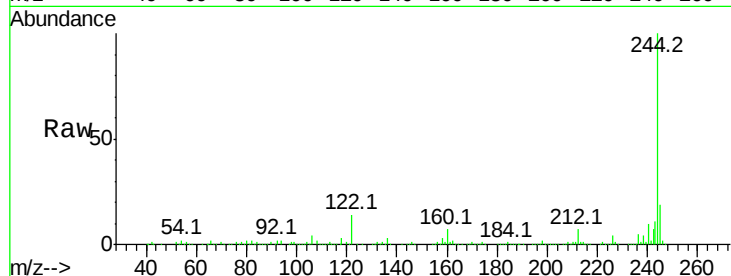




#78  
 Terphenyl-d14  
 Concen: 93.253 ng  
 RT: 12.92 min Scan# 1842  
 Delta R.T. -0.01 min  
 Lab File: BF099675.D  
 Acq: 19 Oct 2017 23:43

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 615119  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.4 8.0  
 122 14.0 11.0 16.4



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.44 min Scan# 2271  
 Delta R.T. -0.01 min  
 Lab File: BF099675.D  
 Acq: 19 Oct 2017 23:43

Tgt Ion:264 Resp: 168057  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.2 28.8  
 265 20.9 17.5 26.3

