

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090717\  
 Data File : BF098341.D  
 Acq On : 8 Sep 2017 4:38  
 Operator : SJ/JU  
 Sample : I5131-05  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090517-TIDO-F-U-S

Quant Time: Sep 08 07:03:23 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 17:28:20 2017  
 Response via : Initial Calibration

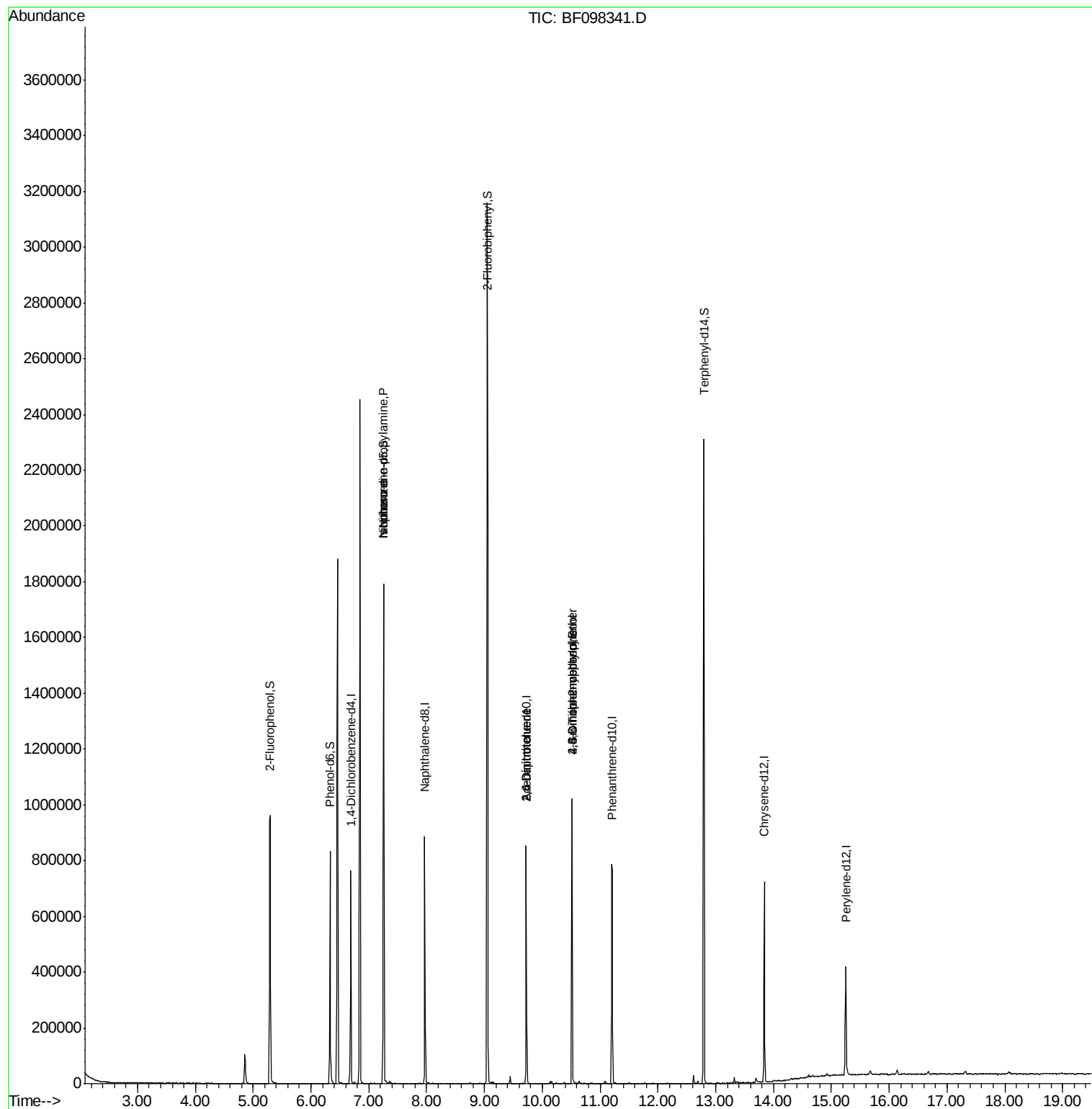
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 104838   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.97  | 136  | 399797   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.72  | 164  | 166999   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.20 | 188  | 286983   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.84 | 240  | 237176   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.25 | 264  | 159655   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 295042   | 42.81  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.33  | 99   | 260449   | 27.81  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.26  | 82   | 704367   | 95.71  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.52 | 330  | 120958   | 83.48  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.05  | 172  | 1047180  | 92.13  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.80 | 244  | 790893   | 69.54  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 91218    | 14.229 | ng    | # 69     |
| 25) Isophorone                 | 7.26  | 82   | 698712   | 45.659 | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.72  | 165  | 20927    | 8.588  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.72  | 165  | 20927    | 6.844  | ng    | # 33     |
| 64) 4,6-Dinitro-2-methylphenol | 10.51 | 198  | 107      | 8.386  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.52 | 248  | 7985     | 2.679  | ng    | # 1      |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 05 17:28:20 2017  
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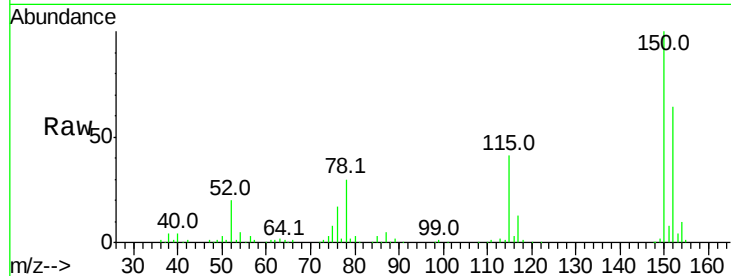


#1

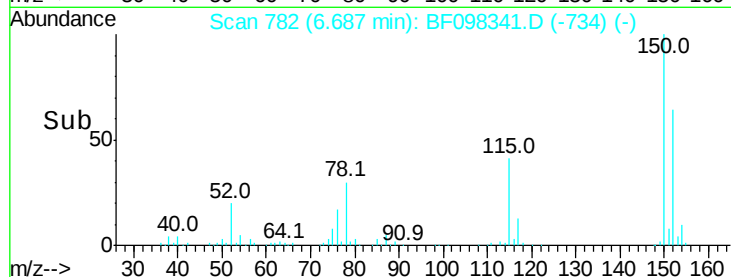
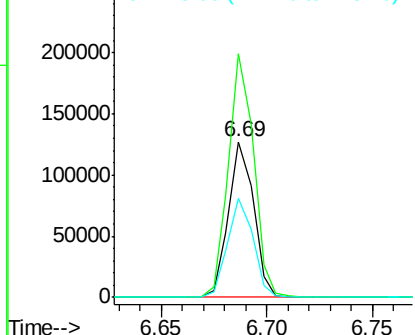
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.69 min Scan# 782  
Delta R.T. -0.02 min  
Lab File: BF098341.D  
Acq: 8 Sep 2017 4:38

Instrument :  
BNA\_F  
ClientSampleId :  
090517-TIDO-F-U-S

Tot Ion:152 Resp: 104838  
Ion Ratio Lower Upper  
152 100  
150 156.7 126.2 189.2  
115 63.5 52.2 78.2



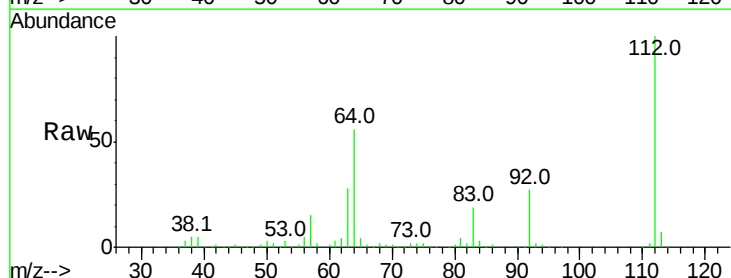
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



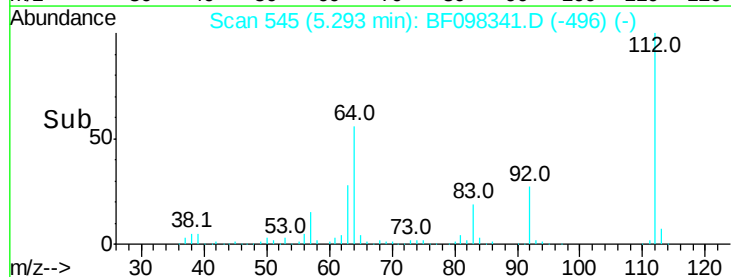
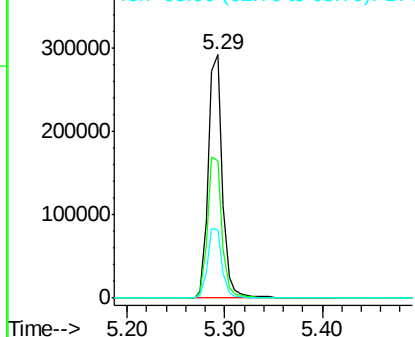
#5

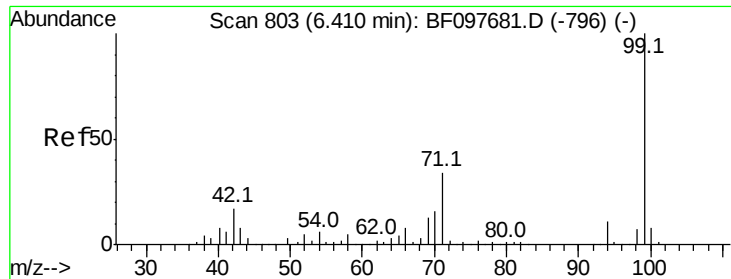
2-Fluorophenol  
Concen: 42.807 ng  
RT: 5.29 min Scan# 545  
Delta R.T. -0.01 min  
Lab File: BF098341.D  
Acq: 8 Sep 2017 4:38

Tgt Ion:112 Resp: 295042  
Ion Ratio Lower Upper  
112 100  
64 56.2 46.0 69.0  
63 27.9 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: 27.812 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.02 min

Lab File: BF098341.D

Acq: 8 Sep 2017 4:38

Instrument :

BNA\_F

ClientSampleId :

090517-TIDO-F-U-S

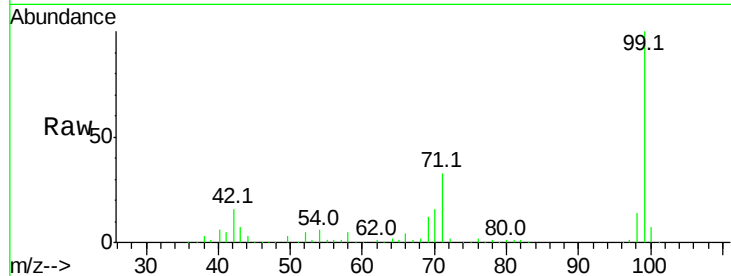
Tot Ion: 99 Resp: 260449

Ion Ratio Lower Upper

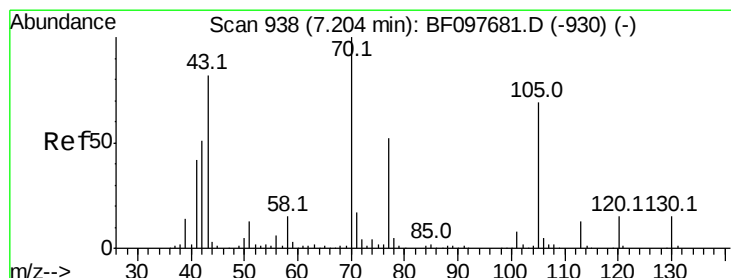
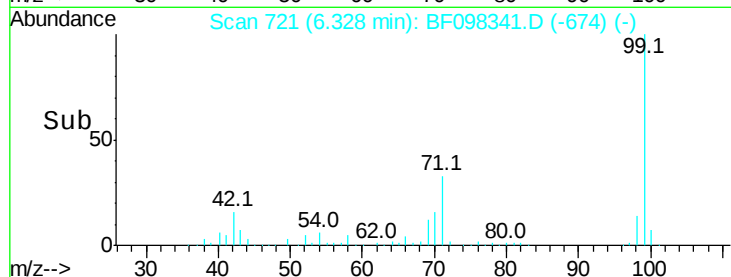
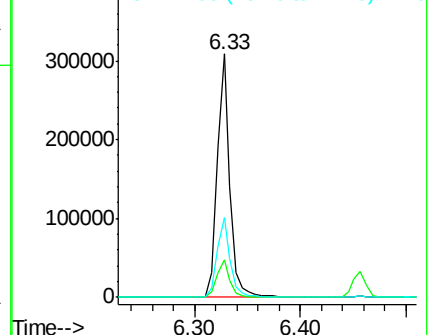
99 100

42 15.7 13.5 20.3

71 32.9 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: 14.229 ng

RT: 7.26 min Scan# 879

Delta R.T. 0.13 min

Lab File: BF098341.D

Acq: 8 Sep 2017 4:38

Tgt Ion: 70 Resp: 91218

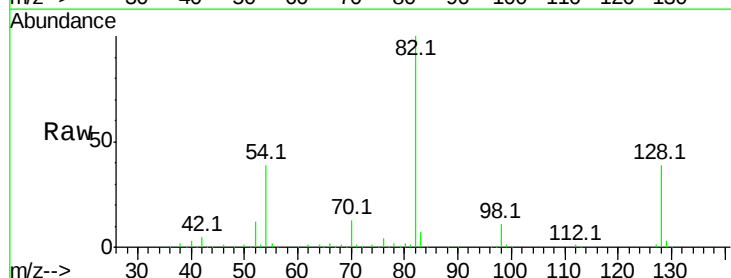
Ion Ratio Lower Upper

70 100

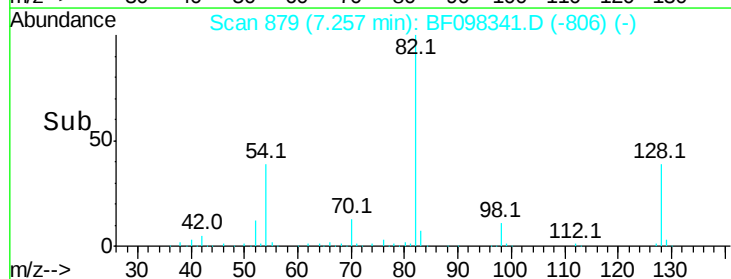
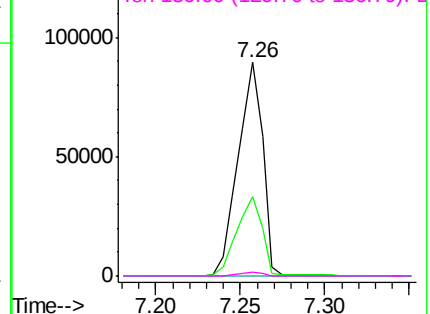
42 37.4 47.2 70.8#

101 0.0 7.2 10.8#

130 1.9 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): E  
Ion 130.00 (129.70 to 130.70): E

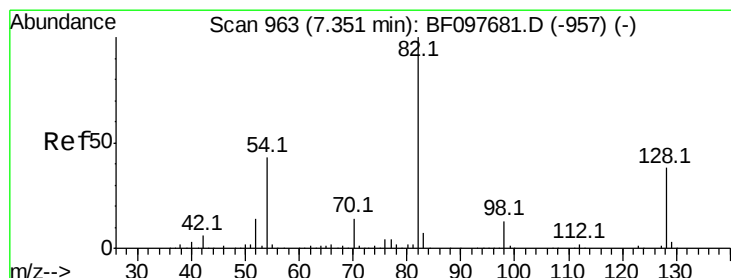
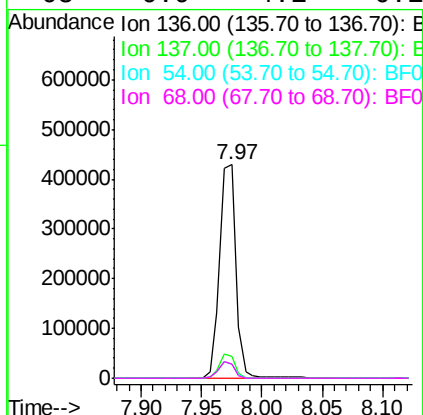
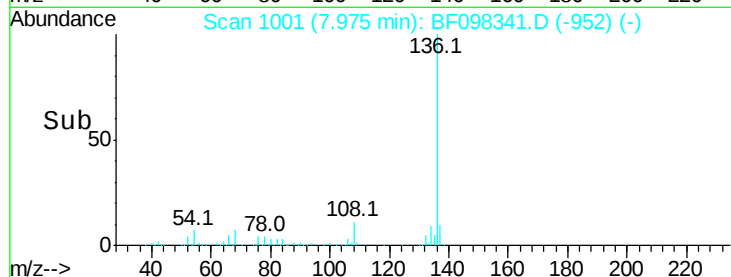
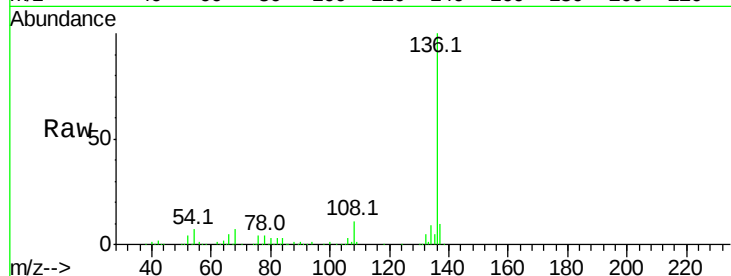




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.97 min Scan# 1001  
Delta R.T. -0.01 min  
Lab File: BF098341.D  
Acq: 8 Sep 2017 4:38

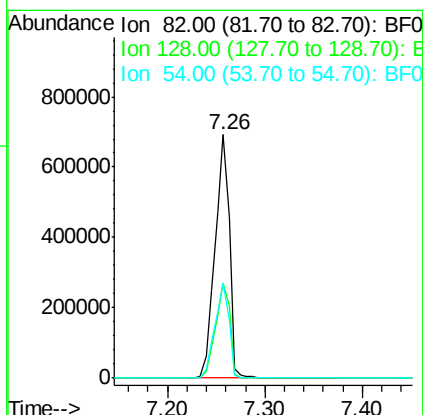
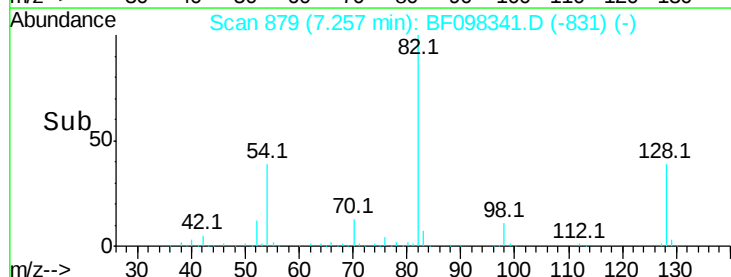
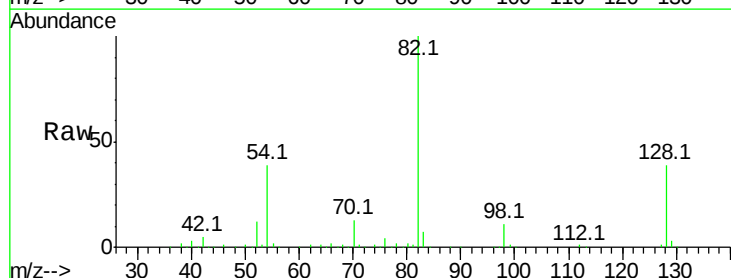
Instrument :  
BNA\_F  
ClientSampleId :  
090517-TIDO-F-U-S

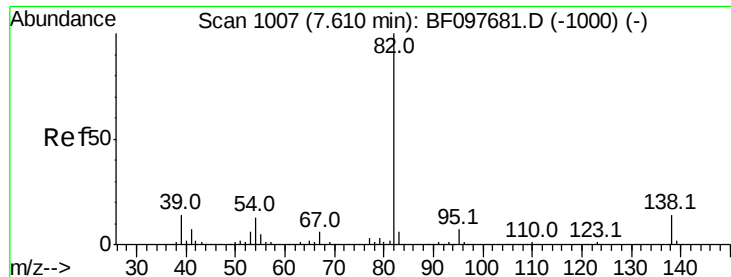
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 399797 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.4  | 8.5   | 12.7   |
| 54       | 6.9   | 4.9   | 7.3    |
| 68       | 6.9   | 4.1   | 6.1#   |



#23  
Nitrobenzene-d5  
Concen: 95.710 ng  
RT: 7.26 min Scan# 879  
Delta R.T. -0.02 min  
Lab File: BF098341.D  
Acq: 8 Sep 2017 4:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 704367 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 39.0  | 34.0  | 51.0   |
| 54       | 39.0  | 42.2  | 63.2#  |





#25

Isophorone

Concen: 45.659 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.28 min

Lab File: BF098341.D

Acq: 8 Sep 2017 4:38

Instrument :

BNA\_F

ClientSampleId :

090517-TIDO-F-U-S

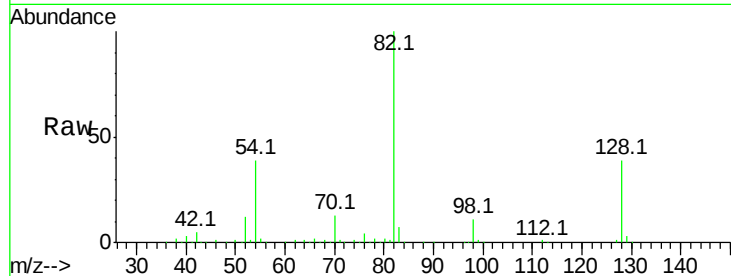
Tot Ion: 82 Resp: 698712

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

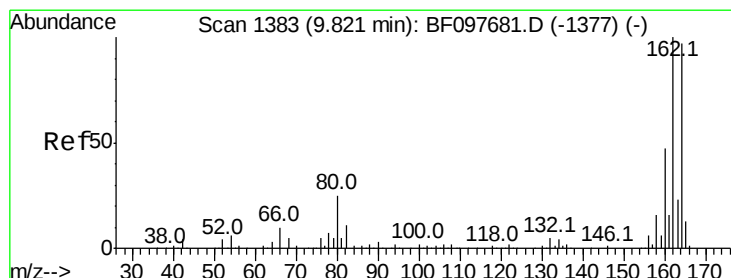
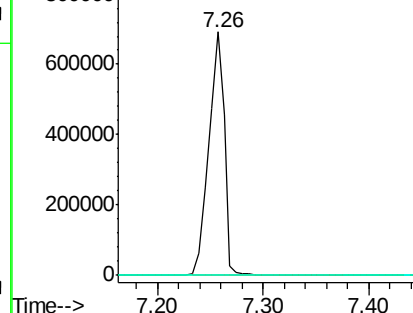
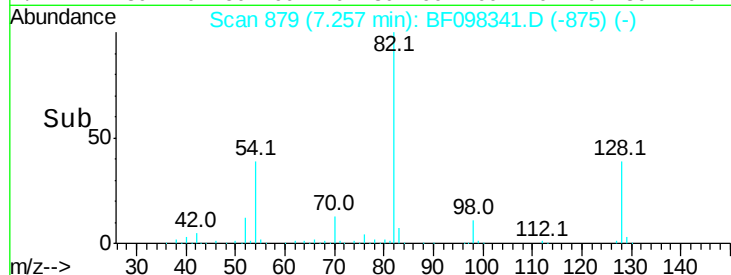
138 0.0 13.1 19.7#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.72 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BF098341.D

Acq: 8 Sep 2017 4:38

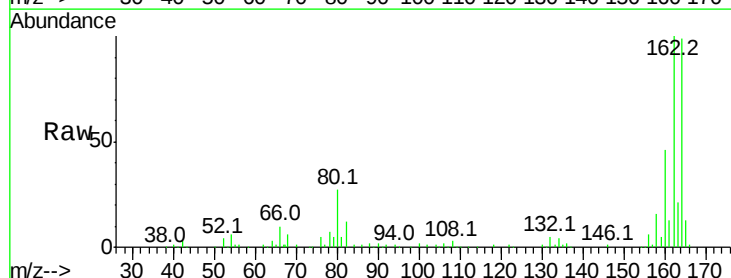
Tgt Ion: 164 Resp: 166999

Ion Ratio Lower Upper

164 100

162 101.3 82.6 123.8

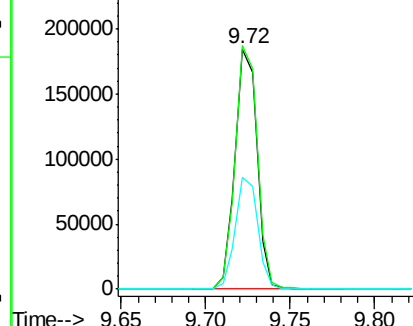
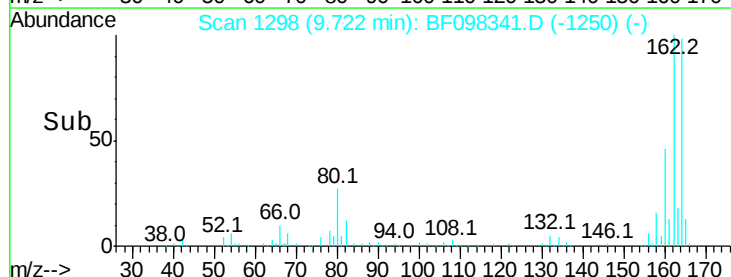
160 46.5 36.2 54.2



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

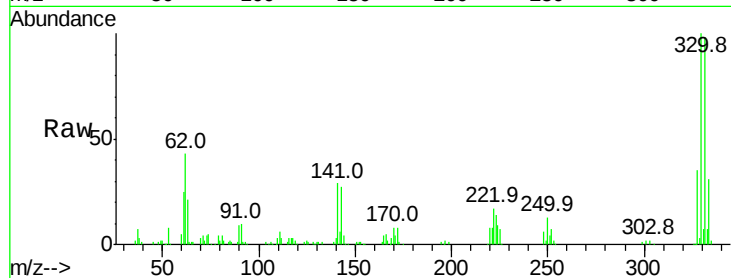




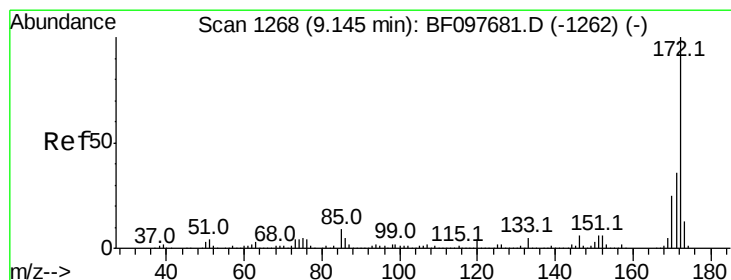
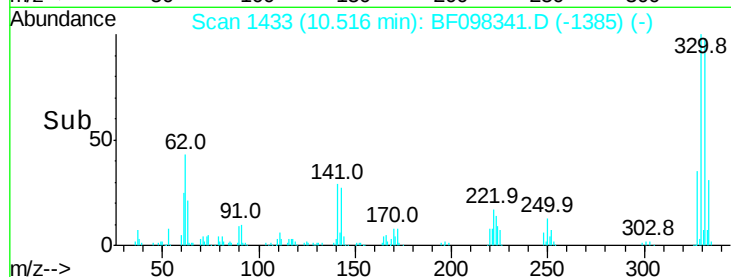
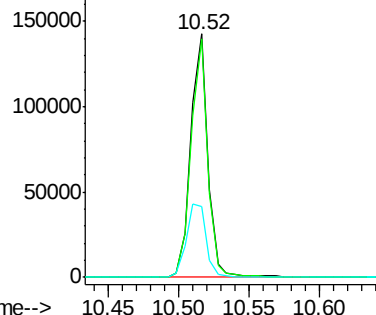
#41  
 2,4,6-Tribromophenol  
 Concen: 83.478 ng  
 RT: 10.52 min Scan# 1433  
 Delta R.T. -0.02 min  
 Lab File: BF098341.D  
 Acq: 8 Sep 2017 4:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090517-TIDO-F-U-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 76.6  | 115.0 |
| 141     | 34.8  | 31.4  | 47.2  |

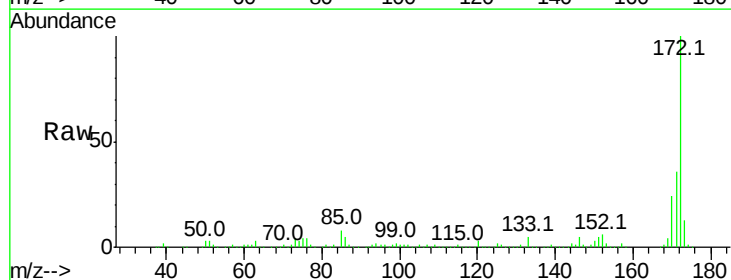


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

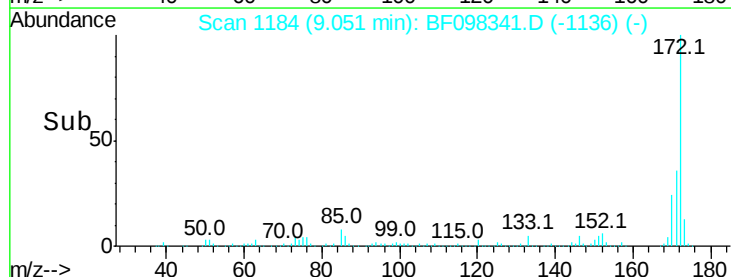
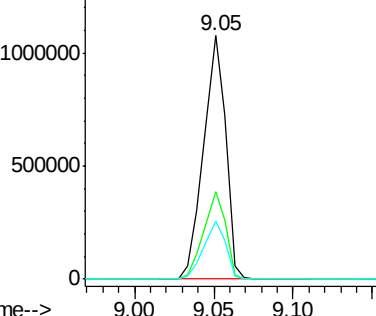


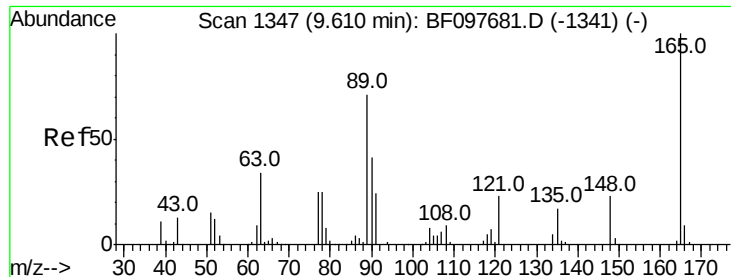
#44  
 2-Fluorobiphenyl  
 Concen: 92.128 ng  
 RT: 9.05 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: BF098341.D  
 Acq: 8 Sep 2017 4:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.6  | 44.4  |
| 170     | 23.9  | 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

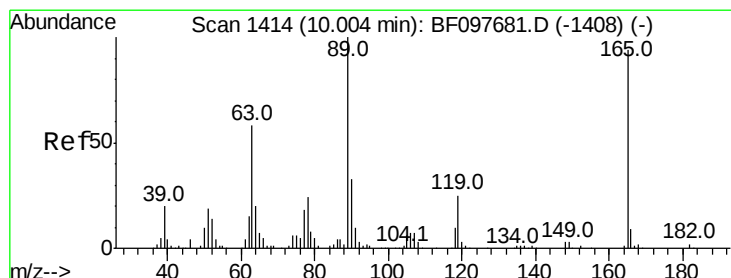
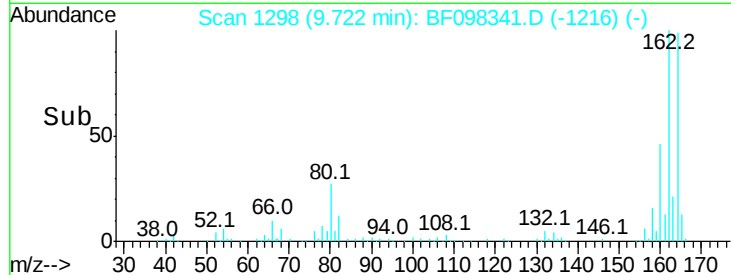
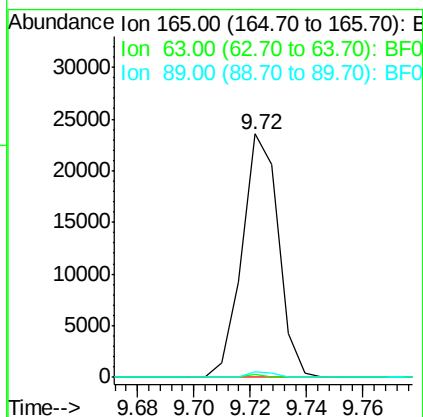
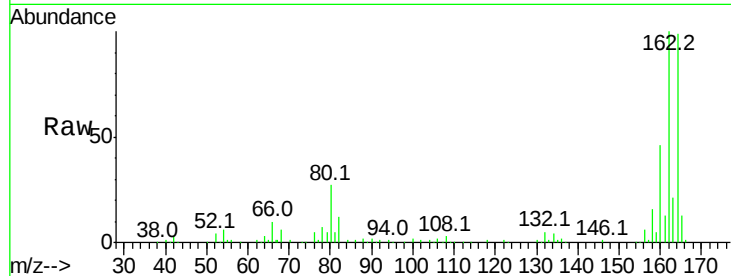




#50  
 2,6-Dinitrotoluene  
 Concen: 8.588 ng  
 RT: 9.72 min Scan# 1298  
 Delta R.T. 0.18 min  
 Lab File: BF098341.D  
 Acq: 8 Sep 2017 4:38

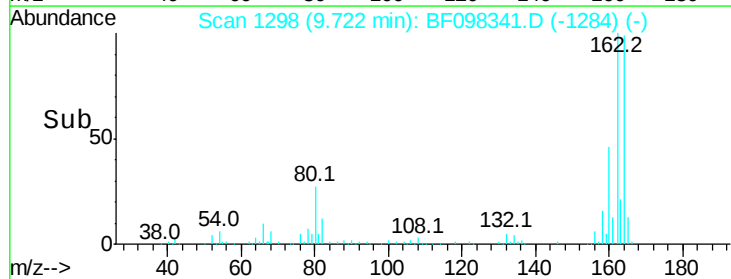
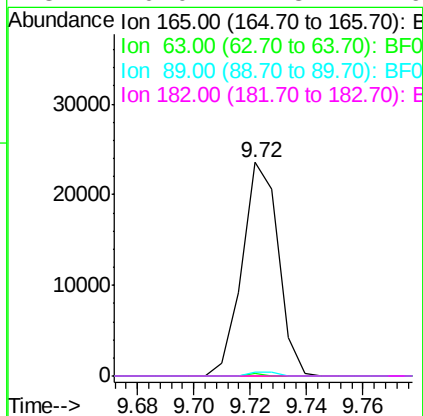
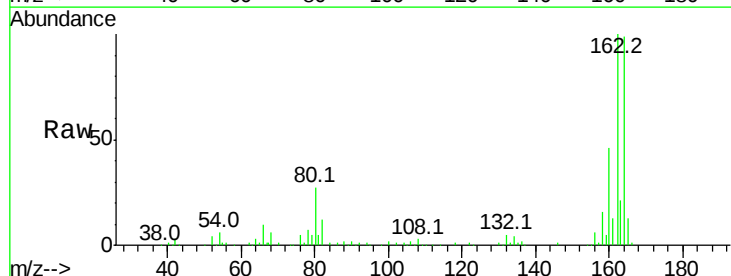
Instrument :  
 BNA\_F  
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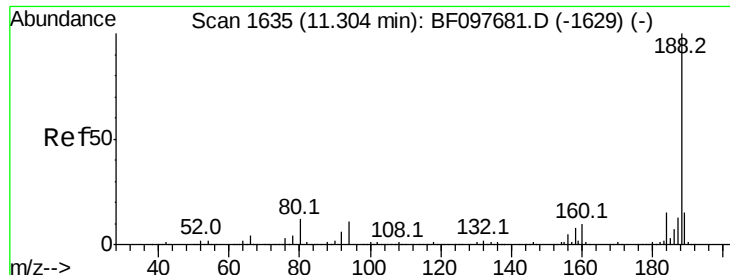
|             |       |       |
|-------------|-------|-------|
| Tot Ion:165 | Resp: | 20927 |
| Ion Ratio   | Lower | Upper |
| 165 100     |       |       |
| 63 1.3      | 34.3  | 51.5# |
| 89 2.1      | 37.1  | 55.7# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.844 ng  
 RT: 9.72 min Scan# 1298  
 Delta R.T. -0.22 min  
 Lab File: BF098341.D  
 Acq: 8 Sep 2017 4:38

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:165 | Resp: | 20927 |
| Ion Ratio   | Lower | Upper |
| 165 100     |       |       |
| 63 1.3      | 25.4  | 38.0# |
| 89 2.1      | 46.4  | 69.6# |
| 182 0.0     | 1.8   | 2.6#  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.20 min Scan# 1550

Delta R.T. -0.02 min

Lab File: BF098341.D

Acq: 8 Sep 2017 4:38

Instrument :

BNA\_F

ClientSampleId :

090517-TIDO-F-U-S

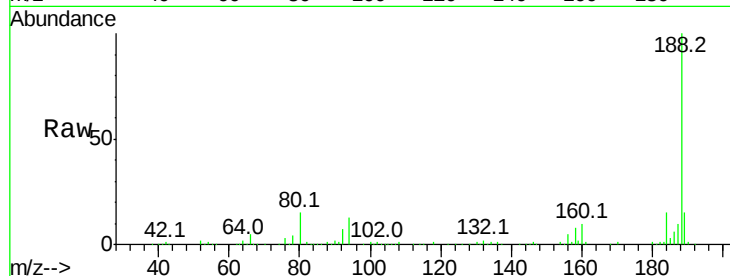
Tot Ion:188 Resp: 286983

Ion Ratio Lower Upper

188 100

94 13.0 9.4 14.2

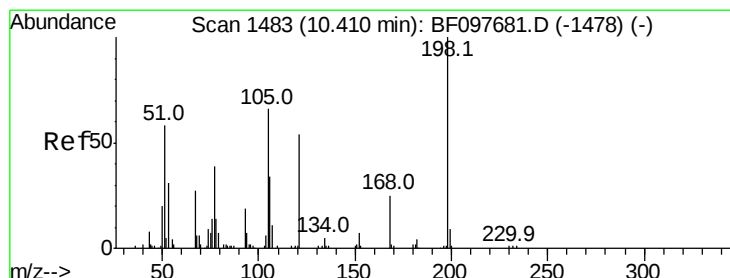
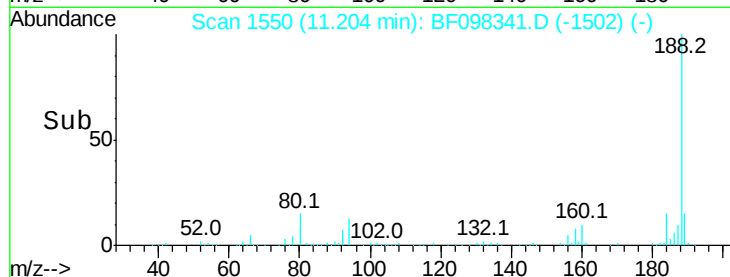
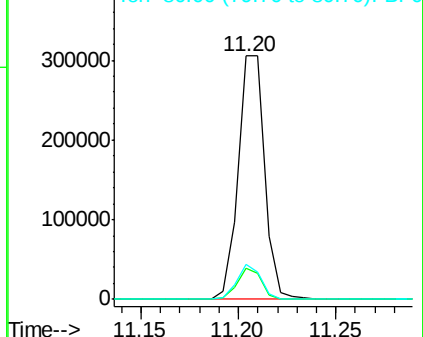
80 14.6 10.2 15.2



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



#64

4,6-Dinitro-2-methylphenol

Concen: 8.386 ng

RT: 10.51 min Scan# 1432

Delta R.T. 0.16 min

Lab File: BF098341.D

Acq: 8 Sep 2017 4:38

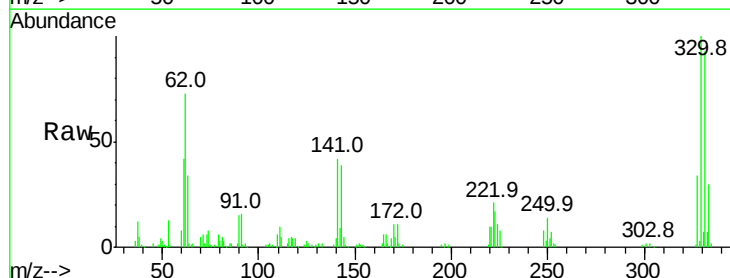
Tgt Ion:198 Resp: 107

Ion Ratio Lower Upper

198 100

51 183.2 53.2 93.2#

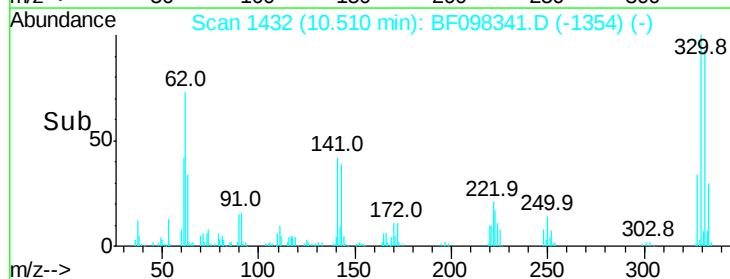
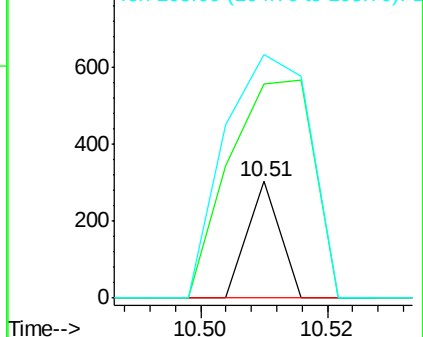
105 208.6 45.8 85.8#

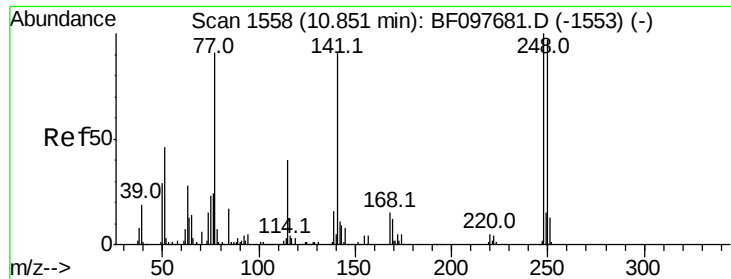


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

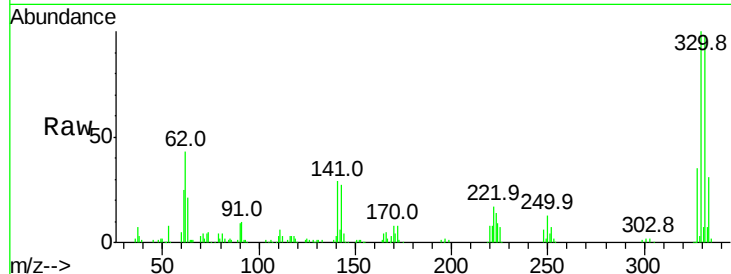




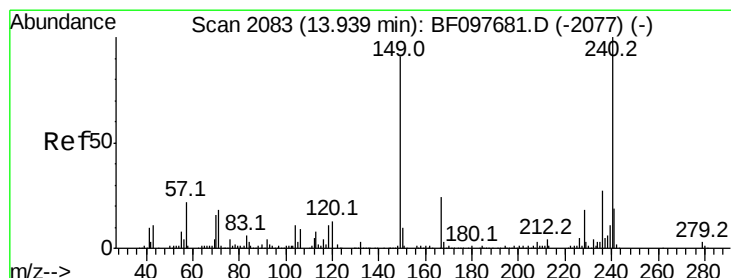
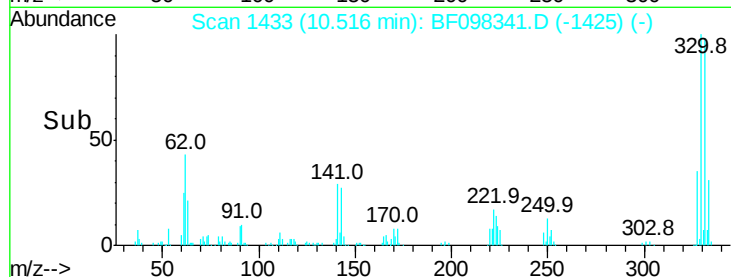
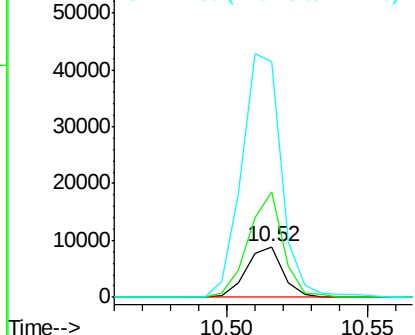
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.679 ng  
 RT: 10.52 min Scan# 1433  
 Delta R.T. -0.25 min  
 Lab File: BF098341.D  
 Acq: 8 Sep 2017 4:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090517-TIDO-F-U-S

Tot Ion:248 Resp: 7985  
 Ion Ratio Lower Upper  
 248 100  
 250 207.9 76.8 115.2#  
 141 465.1 68.6 103.0#

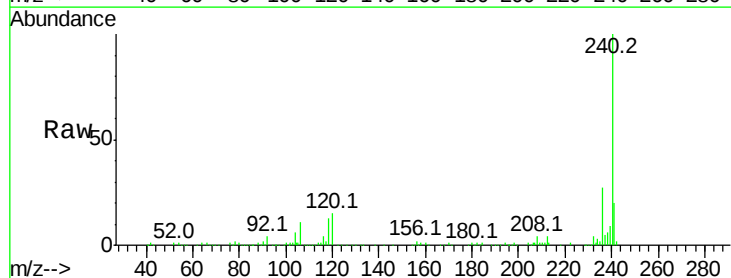


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

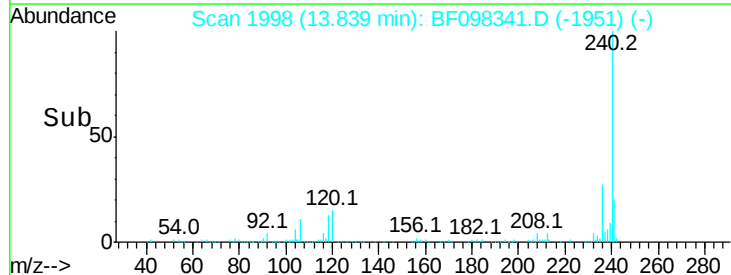
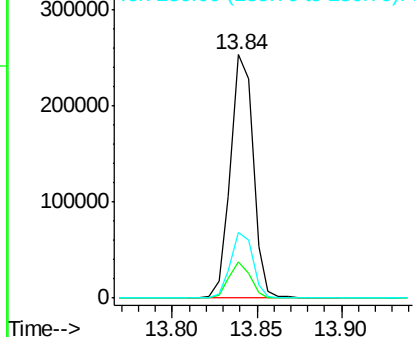


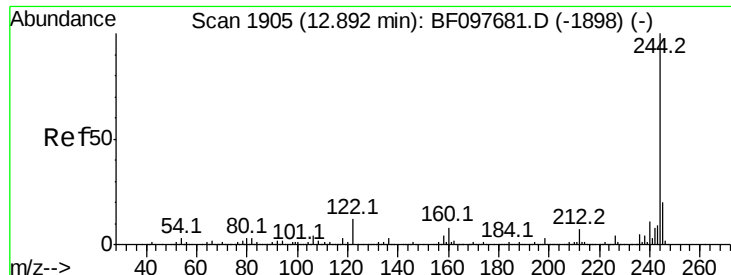
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.84 min Scan# 1998  
 Delta R.T. -0.02 min  
 Lab File: BF098341.D  
 Acq: 8 Sep 2017 4:38

Tgt Ion:240 Resp: 237176  
 Ion Ratio Lower Upper  
 240 100  
 120 15.0 5.8 8.8#  
 236 27.2 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: 69.538 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF098341.D

Acq: 8 Sep 2017 4:38

Instrument :

BNA\_F

ClientSampleId :

090517-TIDO-F-U-S

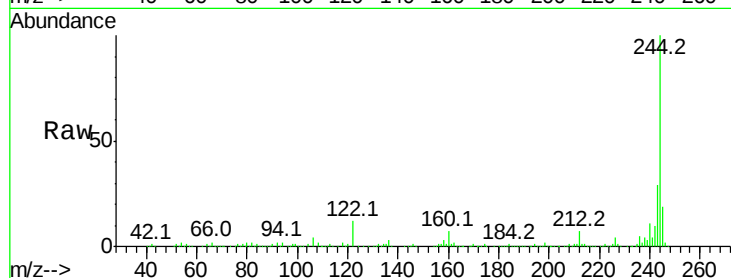
Tot Ion:244 Resp: 790893

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

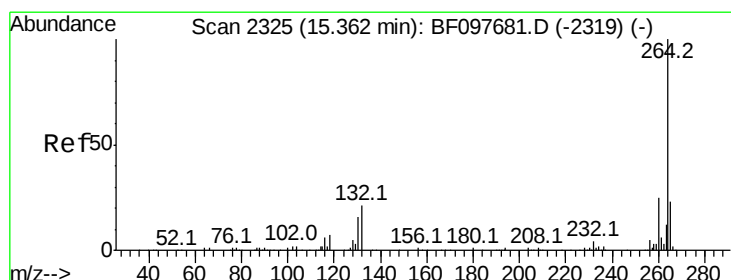
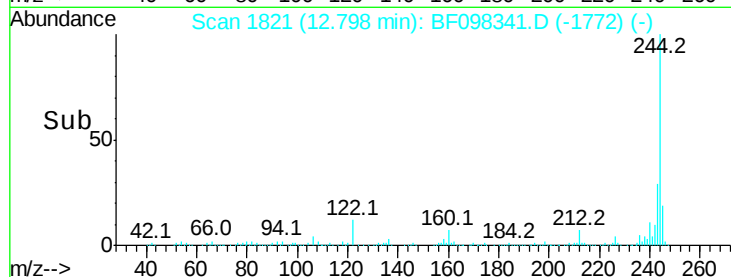
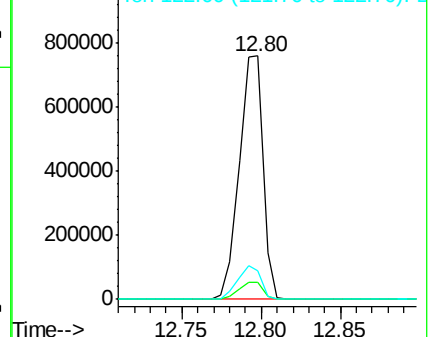
122 11.7 10.3 15.5



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.25 min Scan# 2238

Delta R.T. -0.01 min

Lab File: BF098341.D

Acq: 8 Sep 2017 4:38

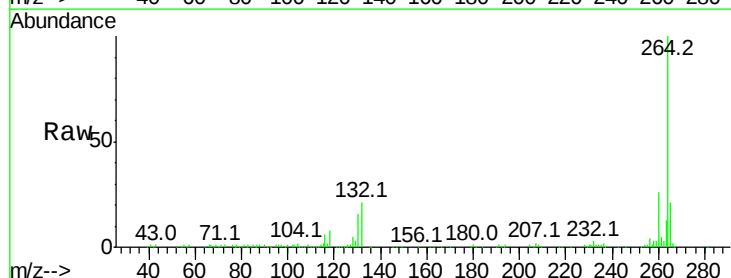
Tgt Ion:264 Resp: 159655

Ion Ratio Lower Upper

264 100

260 25.7 19.5 29.3

265 21.3 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

