

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101017\  
 Data File : BF099305.D  
 Acq On : 10 Oct 2017 17:35  
 Operator : SJ/JU  
 Sample : I5715-13  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 10 18:39:06 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 05 17:20:48 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 111080   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 442541   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 187098   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.39 | 188  | 287944   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.03 | 240  | 213682   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.52 | 264  | 164640   | 20.00 | ng    | 0.01     |

## System Monitoring Compounds

|                          |       |     |        |       |    |      |
|--------------------------|-------|-----|--------|-------|----|------|
| 5) 2-Fluorophenol        | 5.48  | 112 | 570680 | 81.78 | ng | 0.00 |
| 7) Phenol-d6             | 6.50  | 99  | 697000 | 80.97 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.43  | 82  | 410899 | 59.54 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.69 | 330 | 124159 | 81.10 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.22  | 172 | 769097 | 68.62 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.97 | 244 | 551768 | 58.72 | ng | 0.00 |

## Target Compounds

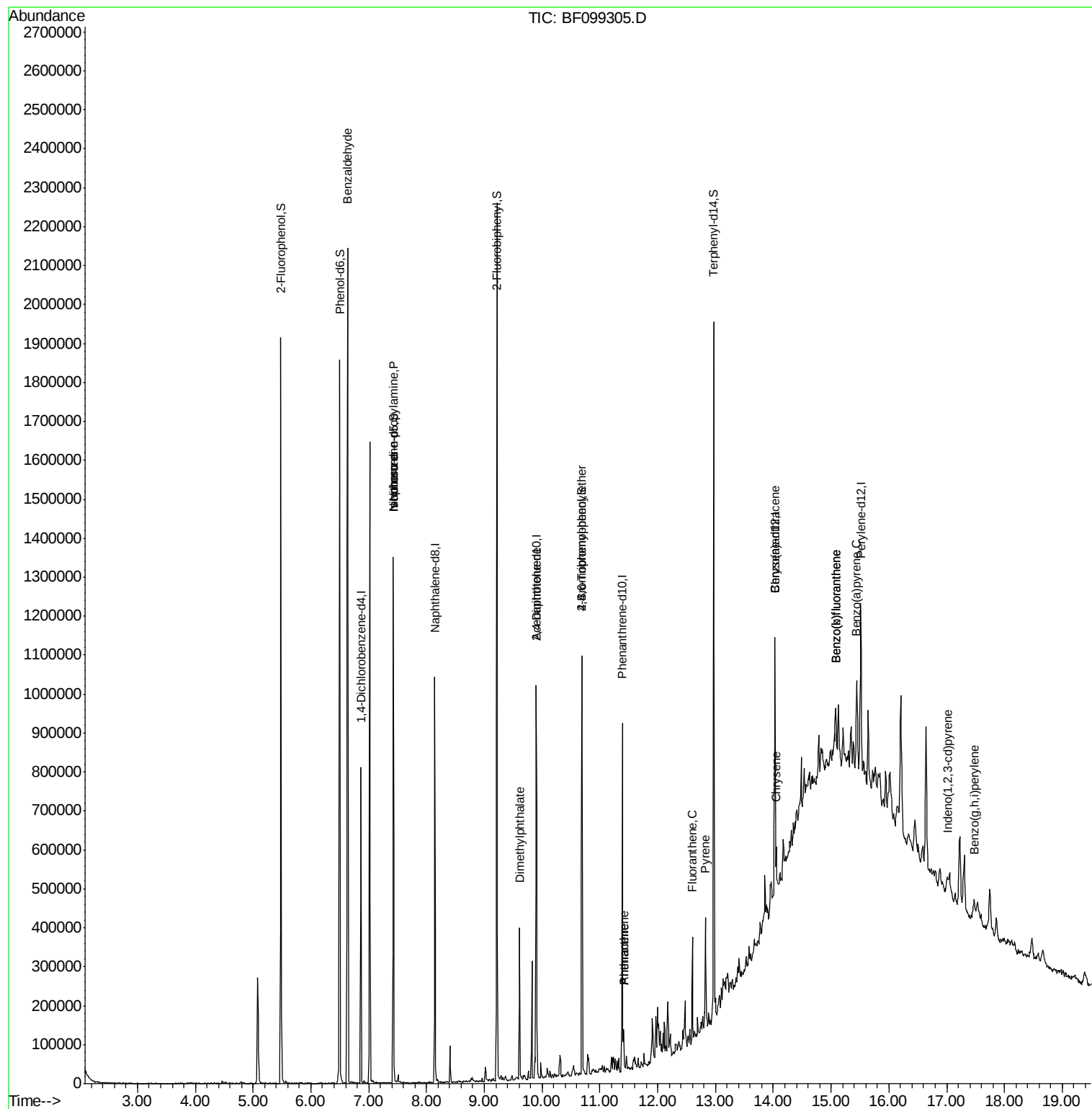
|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 9) Benzaldehyde                | 6.63  | 77  | 11057  | 2.214  | ng | 87     |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70  | 52389  | 9.533  | ng | # 73   |
| 25) Isophorone                 | 7.43  | 82  | 410894 | 28.800 | ng | # 64   |
| 49) Dimethylphthalate          | 9.61  | 163 | 140706 | 9.964  | ng | 100    |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165 | 23976  | 6.009  | ng | # 23   |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248 | 8246   | 2.926  | ng | # 1    |
| 70) Phenanthrene               | 11.41 | 178 | 34260  | 2.223  | ng | 98     |
| 71) Anthracene                 | 11.41 | 178 | 34260  | 2.172  | ng | 99     |
| 74) Fluoranthene               | 12.60 | 202 | 96342  | 6.173  | ng | 98     |
| 77) Pyrene                     | 12.83 | 202 | 93455  | 5.736  | ng | 99     |
| 80) Benzo(a)anthracene         | 14.02 | 228 | 47417  | 3.665  | ng | # 91   |
| 82) Chrysene                   | 14.06 | 228 | 51251  | 4.160  | ng | # 95   |
| 85) Indeno(1,2,3-cd)pyrene     | 17.01 | 276 | 22213  | 2.254  | ng | 98     |
| 87) Benzo(b)fluoranthene       | 15.07 | 252 | 73242  | 7.235  | ng | # 63   |
| 88) Benzo(k)fluoranthene       | 15.07 | 252 | 73242  | 7.325  | ng | # 67   |
| 89) Benzo(a)pyrene             | 15.45 | 252 | 36465  | 3.924  | ng | # 70   |
| 91) Benzo(g,h,i)perylene       | 17.47 | 276 | 25918  | 3.526  | ng | # 82   |

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

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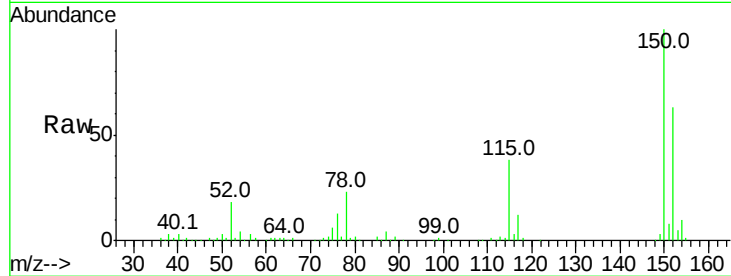


#1

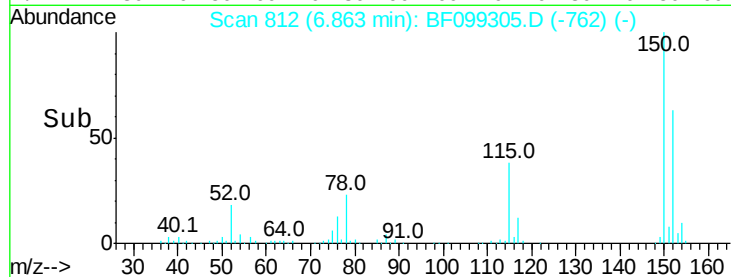
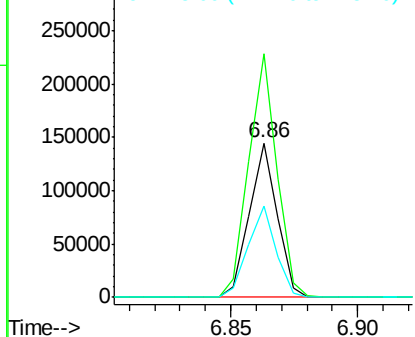
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.86 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 111080  
 Ion Ratio Lower Upper  
 152 100  
 150 157.7 124.6 186.8  
 115 59.4 50.1 75.1



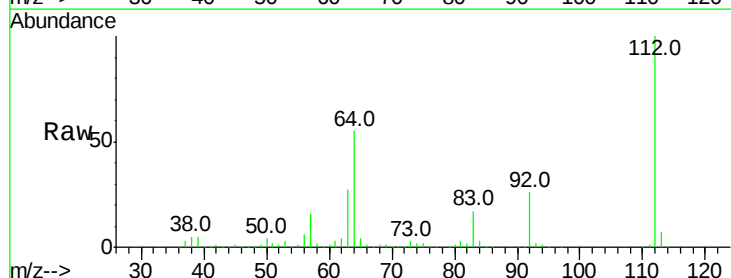
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



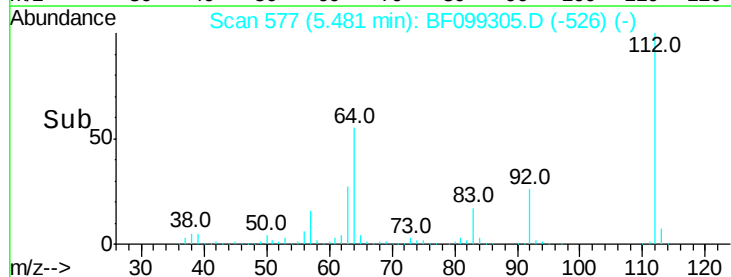
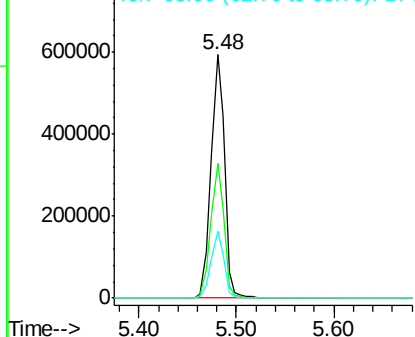
#5

2-Fluorophenol  
 Concen: 81.785 ng  
 RT: 5.48 min Scan# 577  
 Delta R.T. -0.00 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

Tgt Ion:112 Resp: 570680  
 Ion Ratio Lower Upper  
 112 100  
 64 55.4 47.9 71.9  
 63 27.3 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: 80.972 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF099305.D

Acq: 10 Oct 2017 17:35

Instrument :

BNA\_F

ClientSampled :

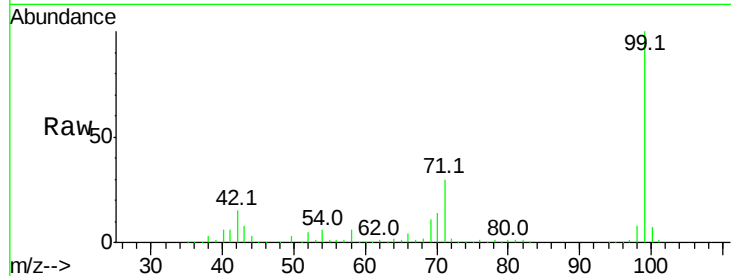
Tot Ion: 99 Resp: 697000

Ion Ratio Lower Upper

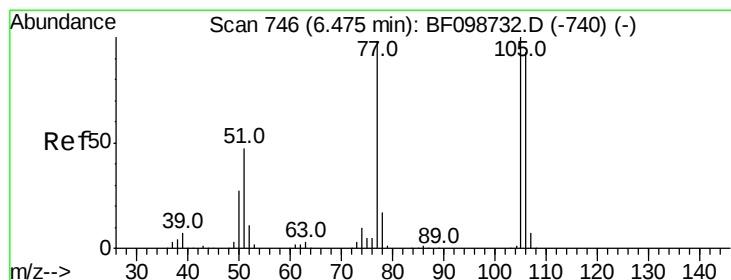
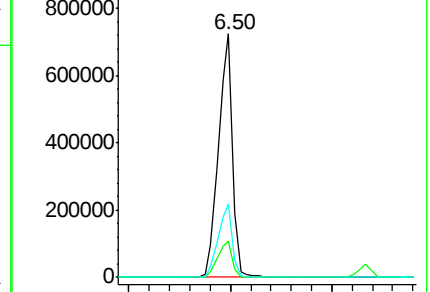
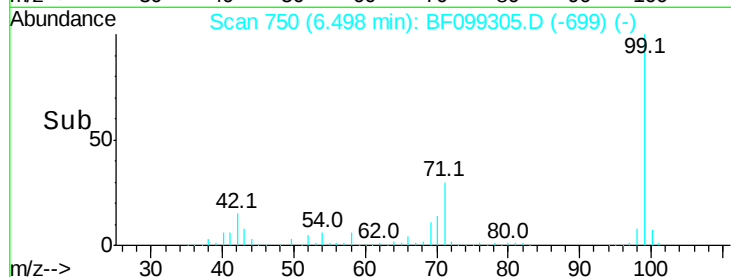
99 100

42 14.9 14.5 21.7

71 29.9 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: 2.214 ng

RT: 6.63 min Scan# 773

Delta R.T. 0.21 min

Lab File: BF099305.D

Acq: 10 Oct 2017 17:35

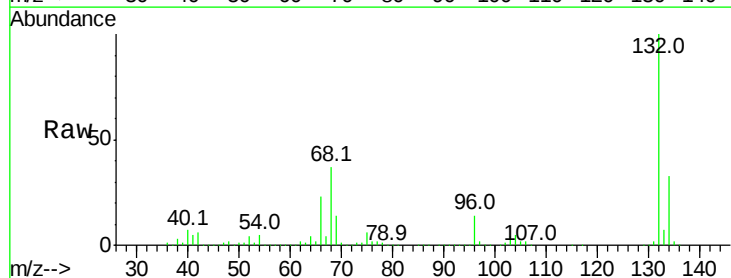
Tgt Ion: 77 Resp: 11057

Ion Ratio Lower Upper

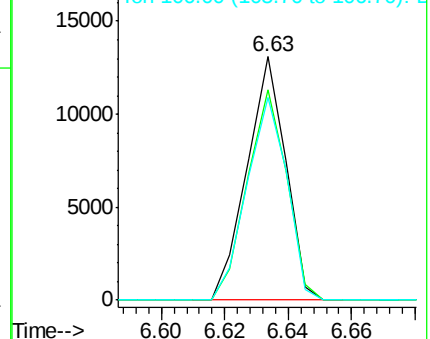
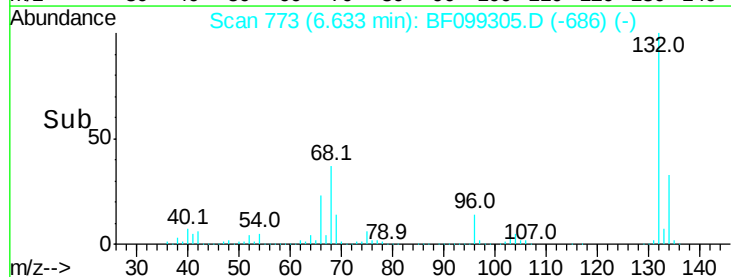
77 100

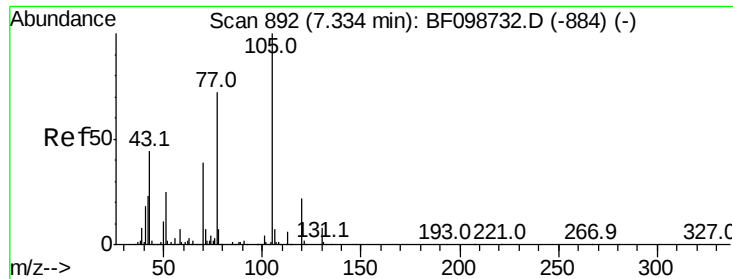
105 86.5 81.1 121.1

106 83.3 74.5 114.5



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

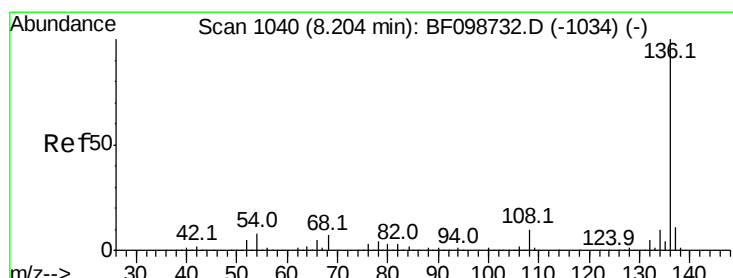
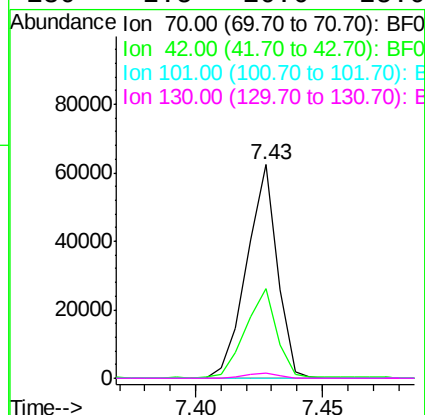
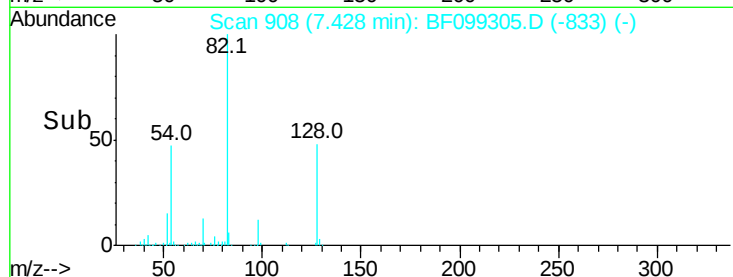
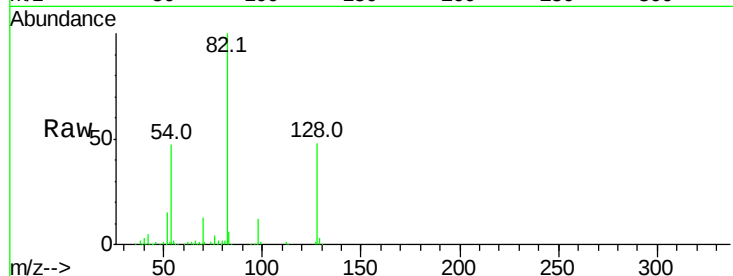




#19  
n-Nitroso-di-n-propylamine  
Concen: 9.533 ng  
RT: 7.43 min Scan# 908  
Delta R.T. 0.14 min  
Lab File: BF099305.D  
Acq: 10 Oct 2017 17:35

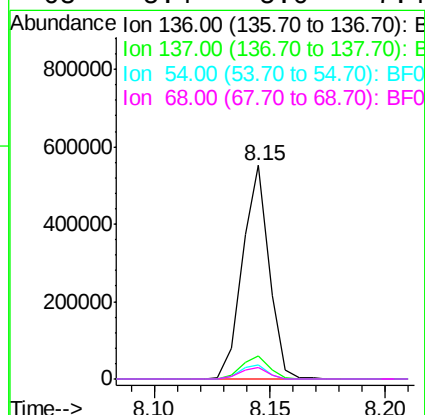
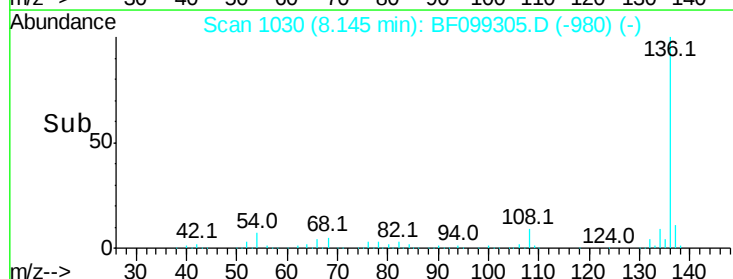
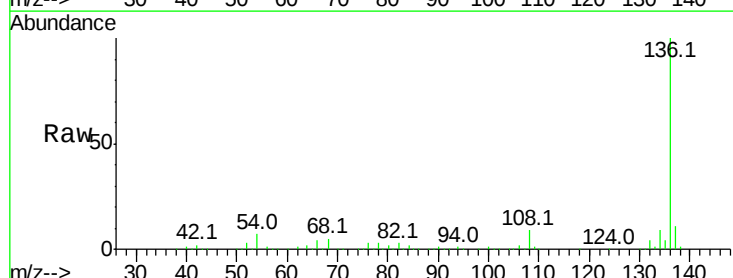
Instrument :  
BNA\_F  
ClientSampleId :

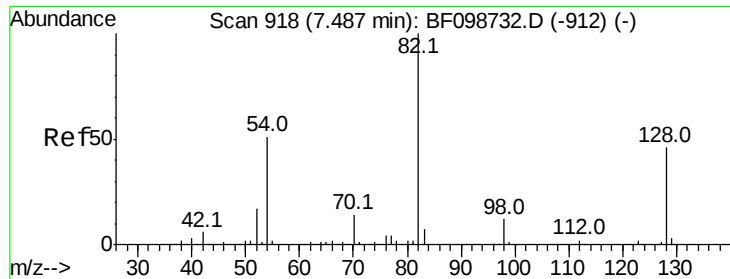
Tot Ion: 70 Resp: 52389  
Ion Ratio Lower Upper  
70 100  
42 41.8 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.5 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF099305.D  
Acq: 10 Oct 2017 17:35

Tgt Ion: 136 Resp: 442541  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.9 13.3  
54 6.7 6.6 9.8  
68 5.4 5.0 7.4

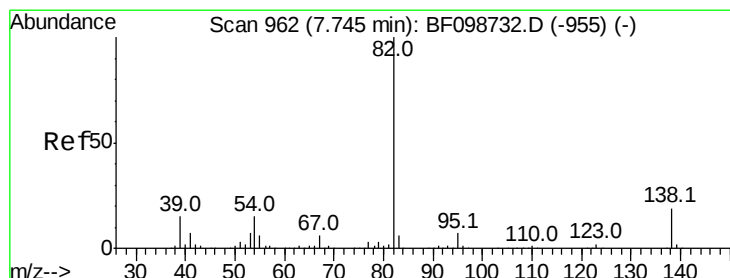
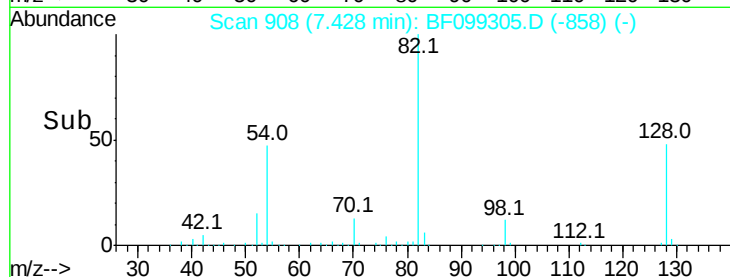
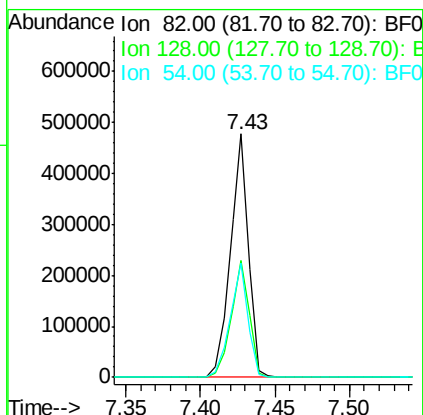
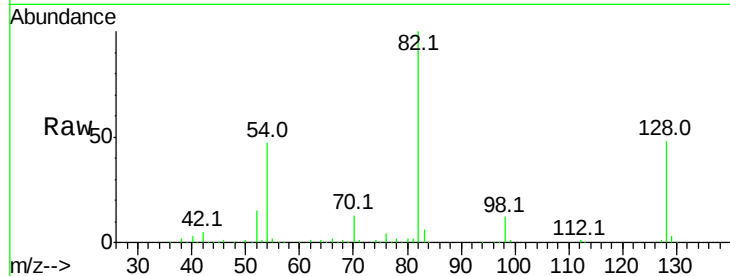




#23  
 Nitrobenzene-d5  
 Concen: 59.545 ng  
 RT: 7.43 min Scan# 908  
 Delta R.T. -0.01 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

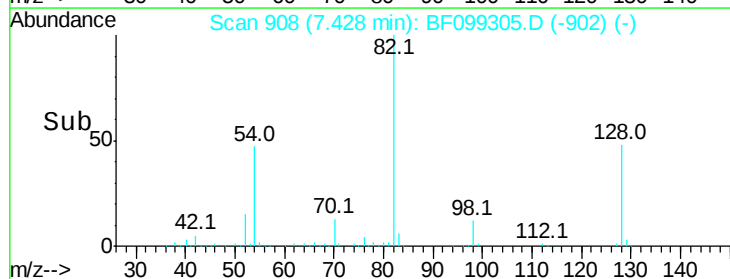
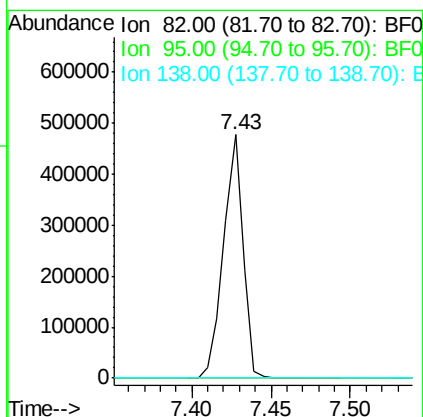
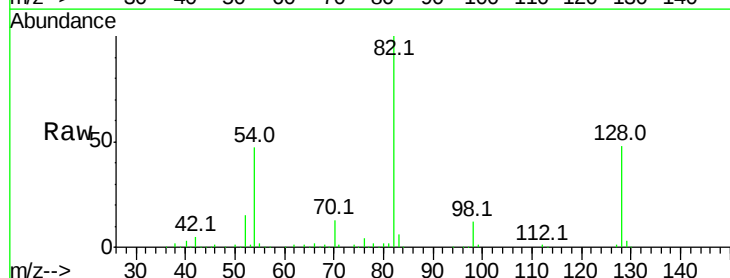
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 82    | Resp  | 410899 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 48.2  | 36.1  | 54.1   |
| 54        | 47.2  | 41.4  | 62.2   |



#25  
 Isophorone  
 Concen: 28.800 ng  
 RT: 7.43 min Scan# 908  
 Delta R.T. -0.26 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

| Tgt Ion   | 82    | Resp  | 410894 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.2   | 7.8#   |
| 138       | 0.0   | 14.9  | 22.3#  |

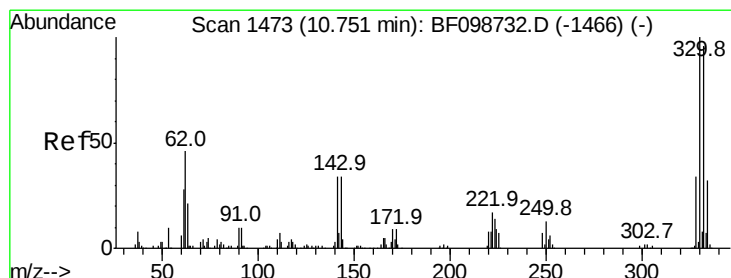
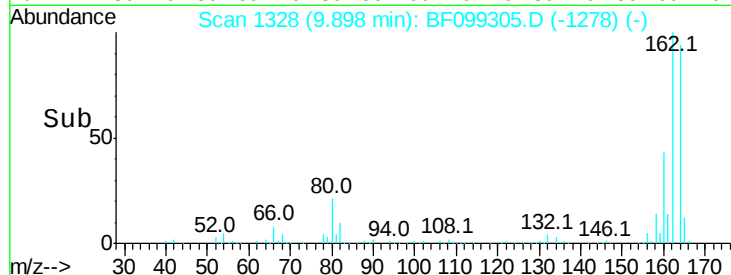
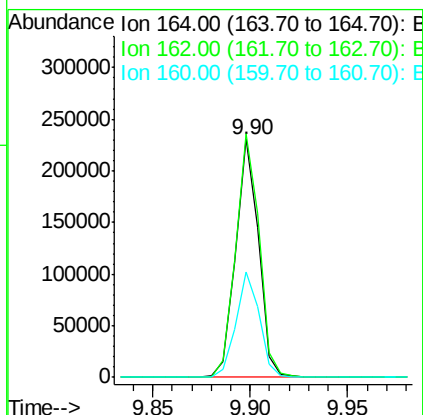
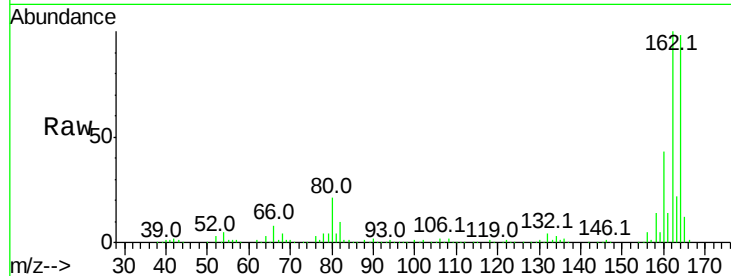




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.01 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

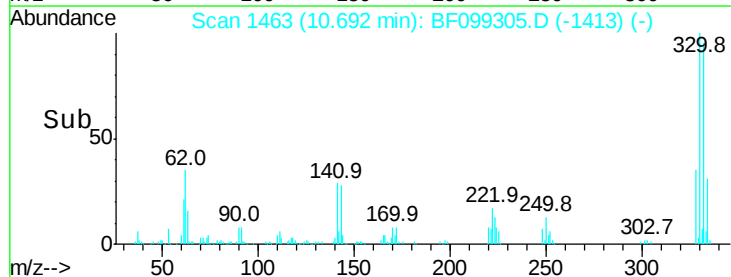
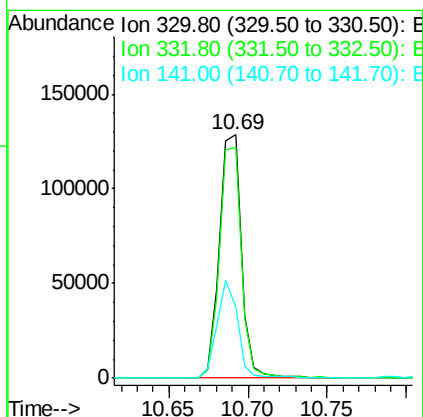
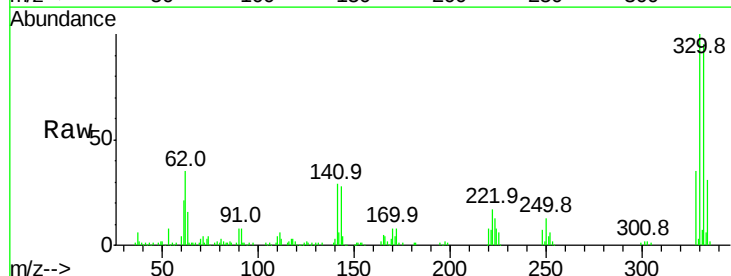
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 187098  
 Ion Ratio Lower Upper  
 164 100  
 162 102.1 86.1 129.1  
 160 44.1 38.3 57.5



#41  
 2,4,6-Tribromophenol  
 Concen: 81.098 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

Tgt Ion:330 Resp: 124159  
 Ion Ratio Lower Upper  
 330 100  
 332 94.9 77.0 115.6  
 141 37.7 29.9 44.9

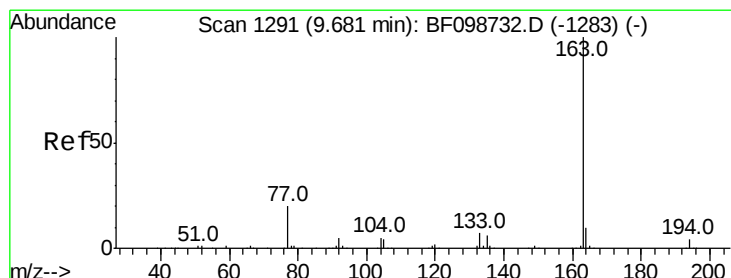
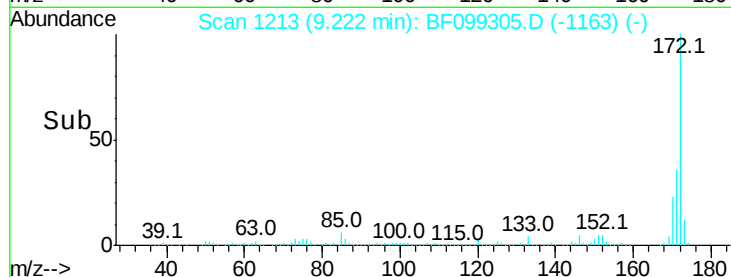
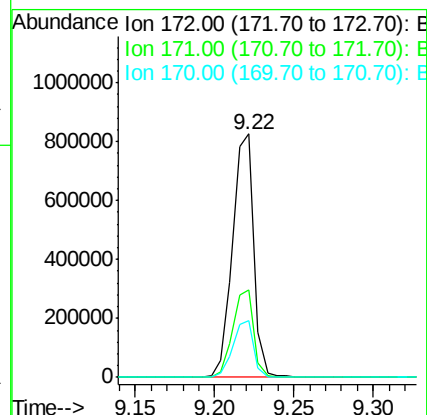
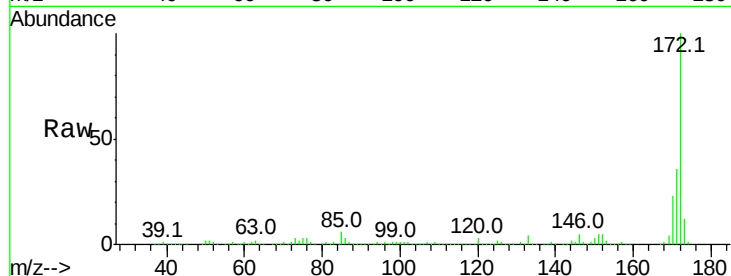




#44  
2-Fluorobiphenyl  
Concen: 68.624 ng  
RT: 9.22 min Scan# 1213  
Delta R.T. -0.01 min  
Lab File: BF099305.D  
Acq: 10 Oct 2017 17:35

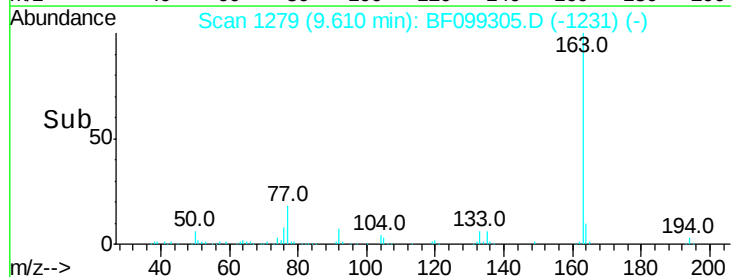
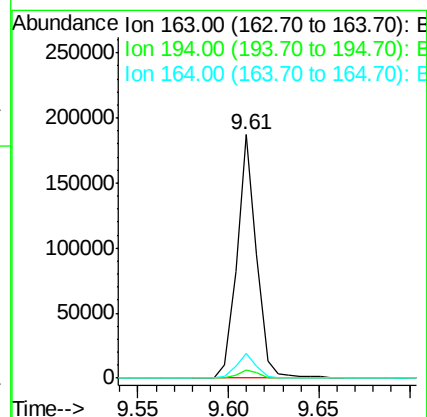
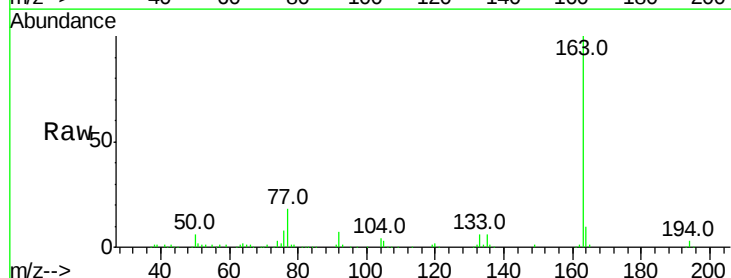
Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.7  | 44.5  |
| 170     | 23.4  | 19.6  | 29.4  |



#49  
Dimethylphthalate  
Concen: 9.964 ng  
RT: 9.61 min Scan# 1279  
Delta R.T. -0.02 min  
Lab File: BF099305.D  
Acq: 10 Oct 2017 17:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.4   | 2.7   | 4.1   |
| 164     | 10.2  | 8.2   | 12.2  |

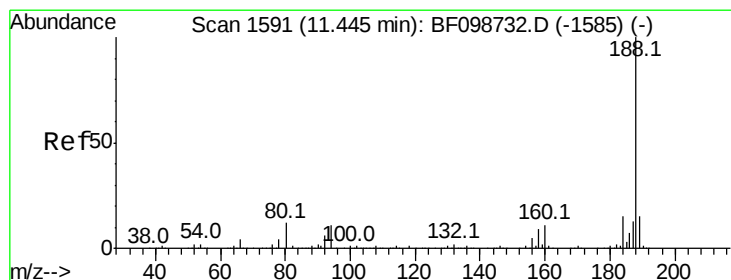
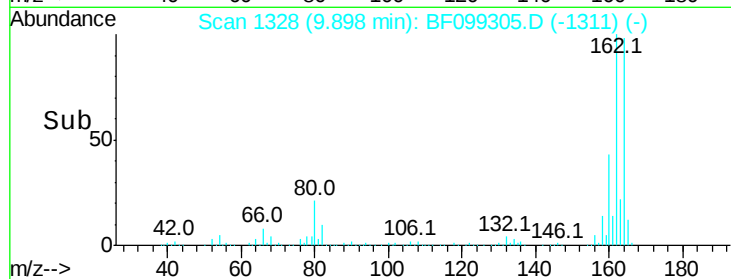
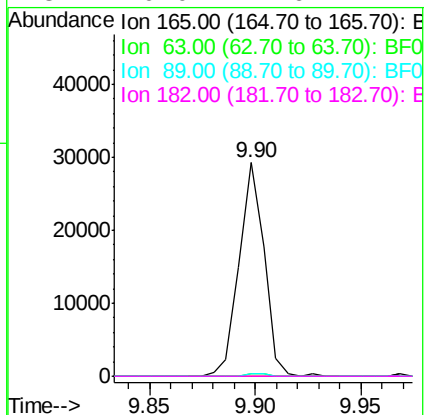
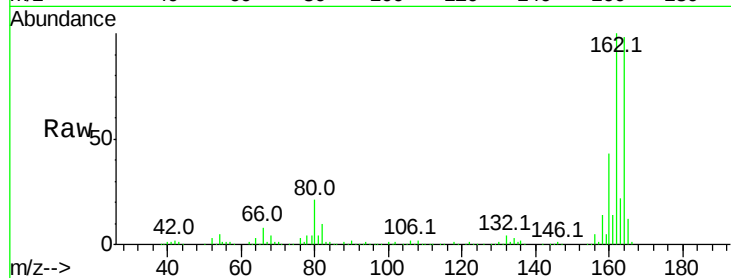




#56  
 2,4-Dinitrotoluene  
 Concen: 6.009 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.20 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

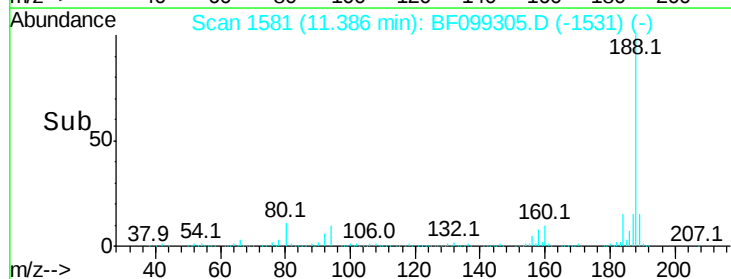
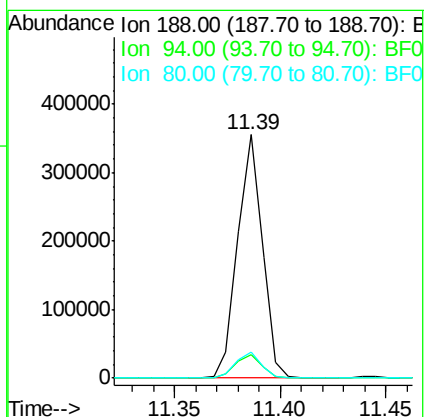
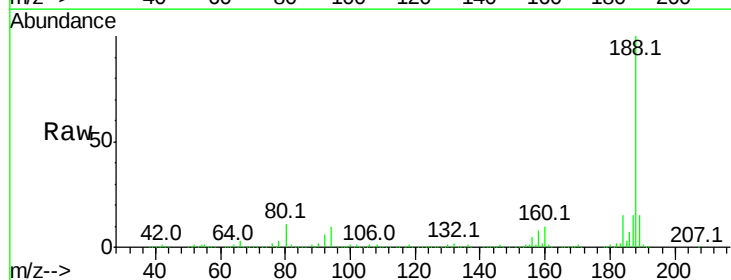
Instrument :  
 BNA\_F  
 ClientSampleId :

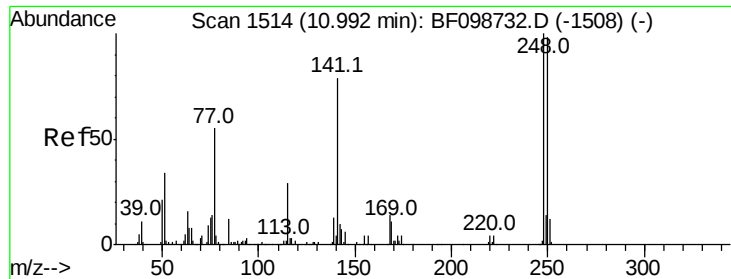
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 36.4  | 54.6# |
| 89      | 1.4   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.01 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.9   | 8.5   | 12.7  |
| 80      | 10.8  | 9.2   | 13.8  |

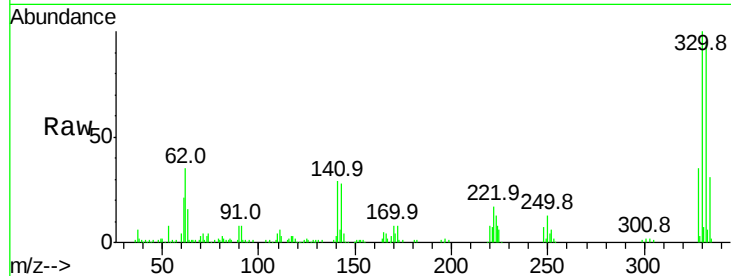




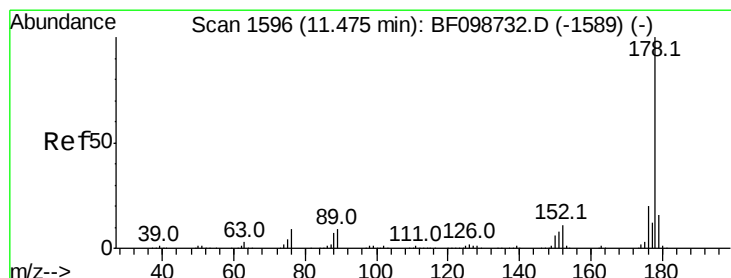
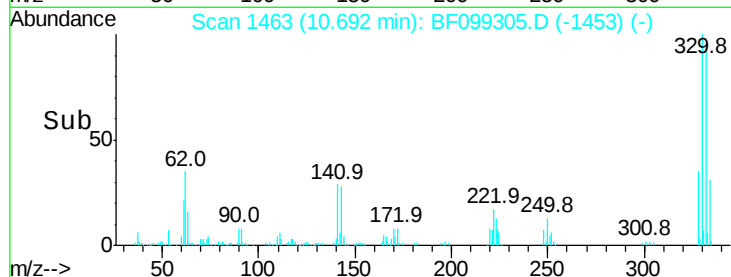
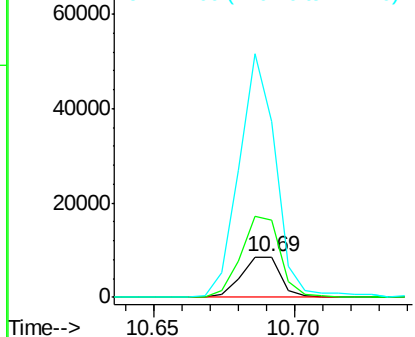
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.926 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.24 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 8246  
 Ion Ratio Lower Upper  
 248 100  
 250 189.9 76.9 115.3#  
 141 435.3 74.4 111.6#

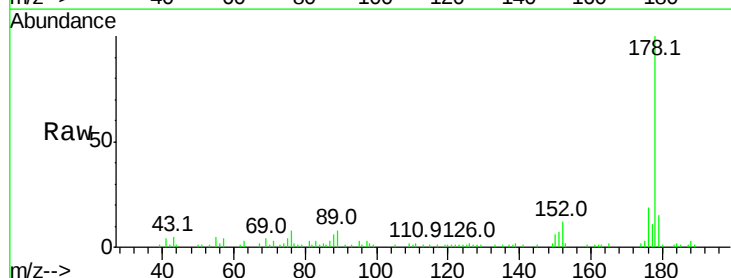


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

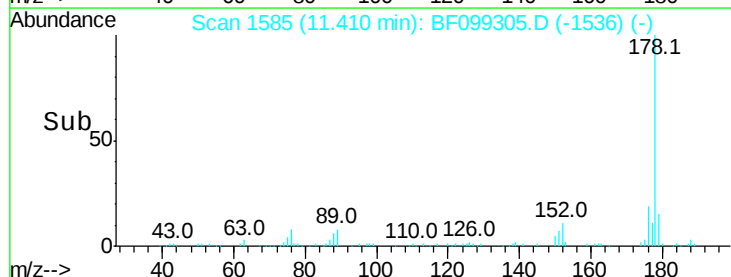
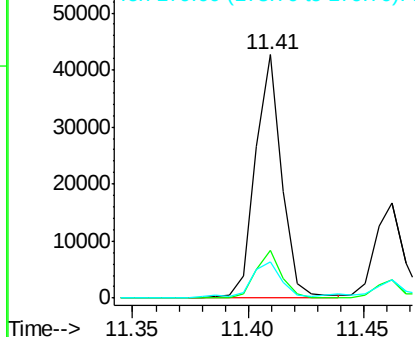


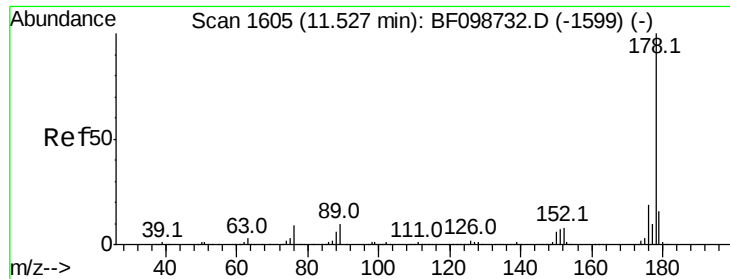
#70  
 Phenanthrene  
 Concen: 2.223 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. -0.01 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

Tgt Ion:178 Resp: 34260  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 15.8 23.8  
 179 14.9 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

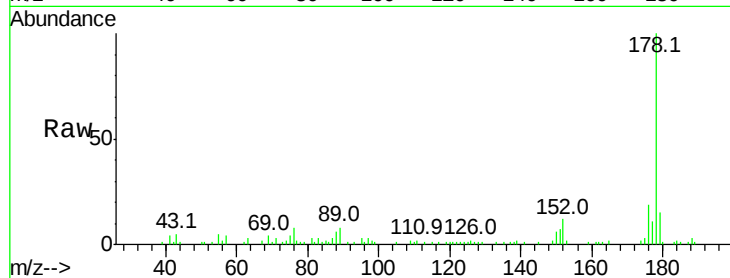




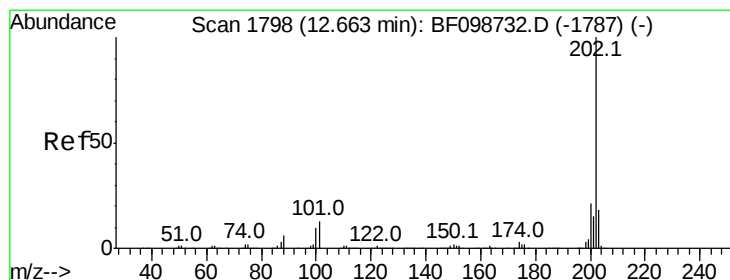
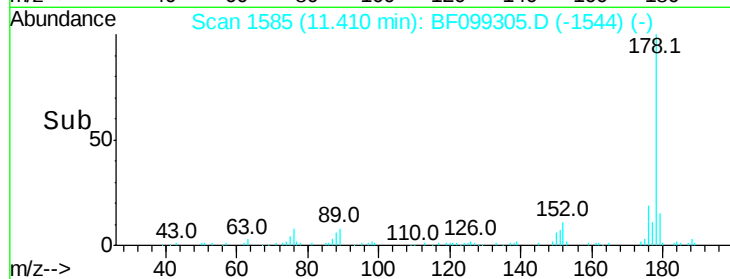
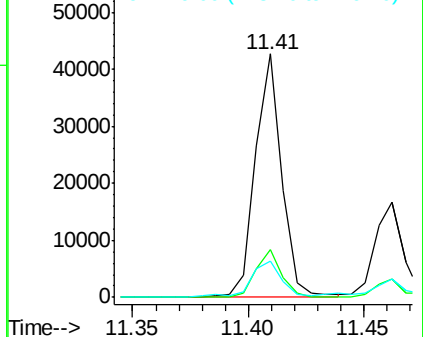
#71  
 Anthracene  
 Concen: 2.172 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. -0.06 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:178 Resp: 34260  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 15.4 23.2  
 179 14.9 12.6 19.0

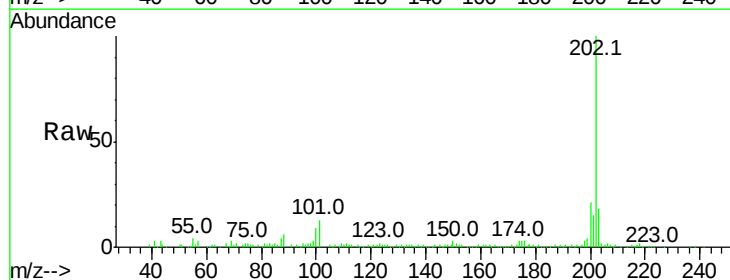


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

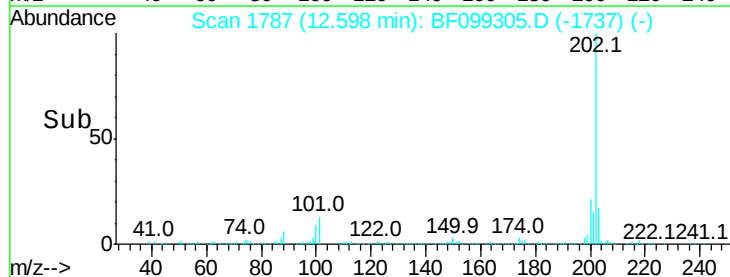
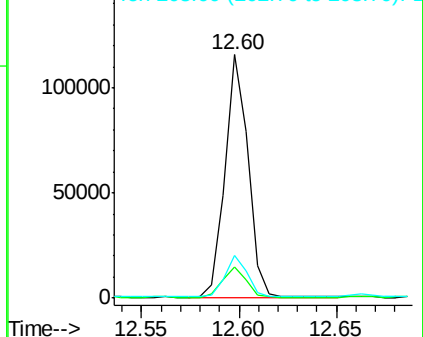


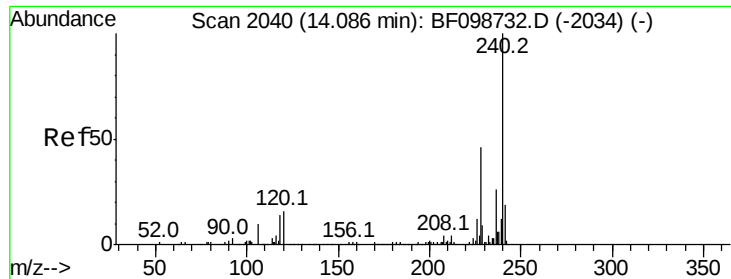
#74  
 Fluoranthene  
 Concen: 6.173 ng  
 RT: 12.60 min Scan# 1787  
 Delta R.T. -0.01 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

Tgt Ion:202 Resp: 96342  
 Ion Ratio Lower Upper  
 202 100  
 101 12.9 0.0 34.1  
 203 17.5 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF099305.D

Acq: 10 Oct 2017 17:35

Instrument :

BNA\_F

ClientSampleId :

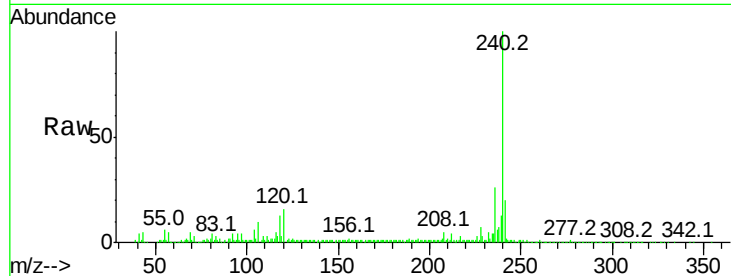
Tot Ion:240 Resp: 213682

Ion Ratio Lower Upper

240 100

120 16.1 9.5 14.3#

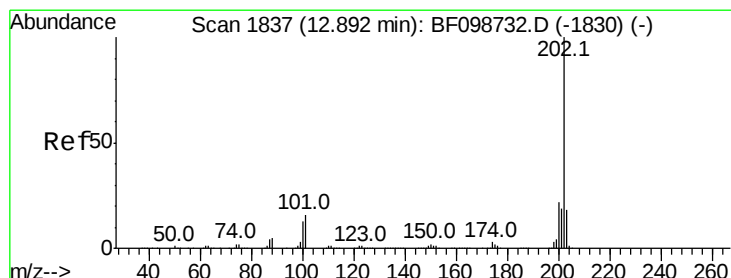
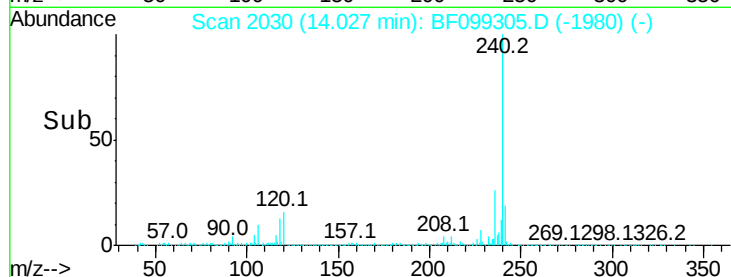
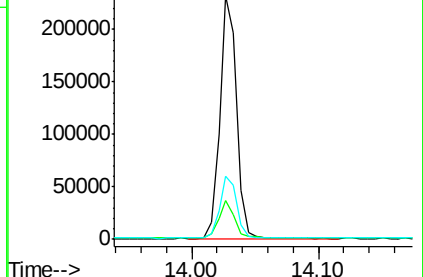
236 26.0 20.7 31.1



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



#77

Pyrene

Concen: 5.736 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF099305.D

Acq: 10 Oct 2017 17:35

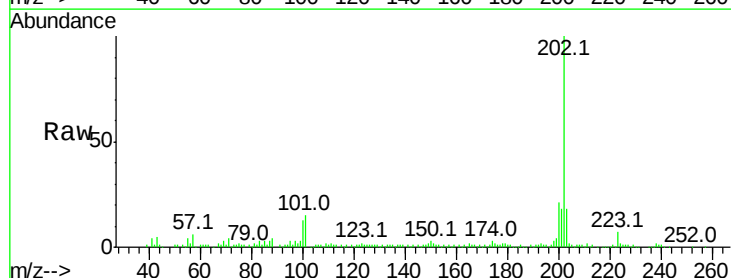
Tgt Ion:202 Resp: 93455

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

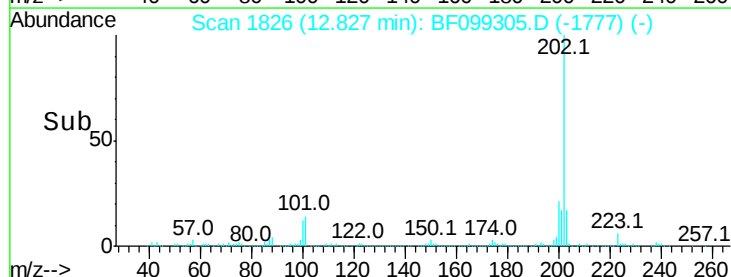
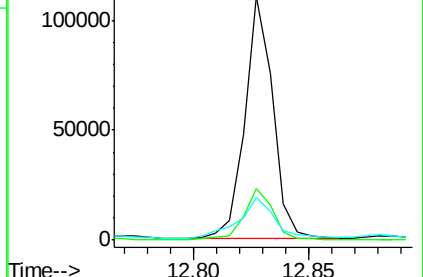
203 17.6 14.3 21.5

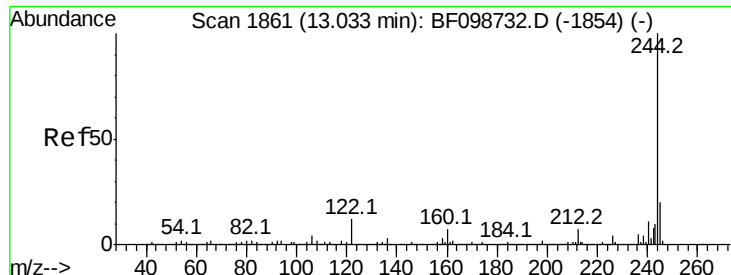


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 58.724 ng

RT: 12.97 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BF099305.D

Acq: 10 Oct 2017 17:35

Instrument :

BNA\_F

ClientSampleId :

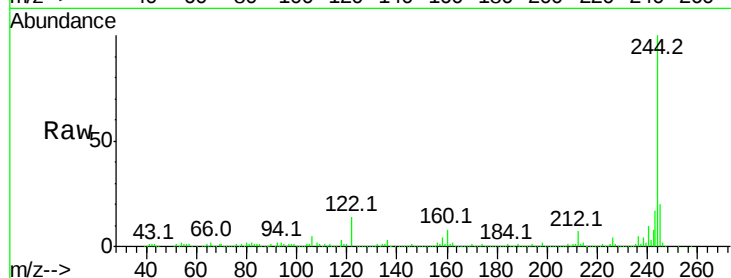
Tot Ion:244 Resp: 551768

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

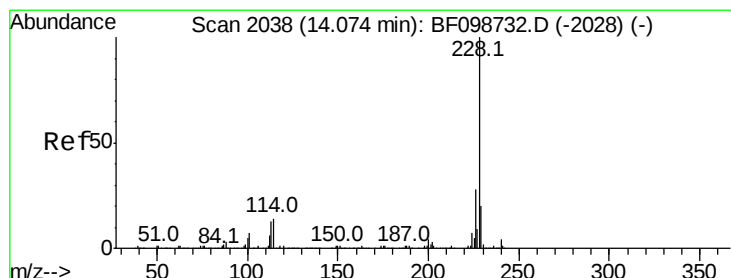
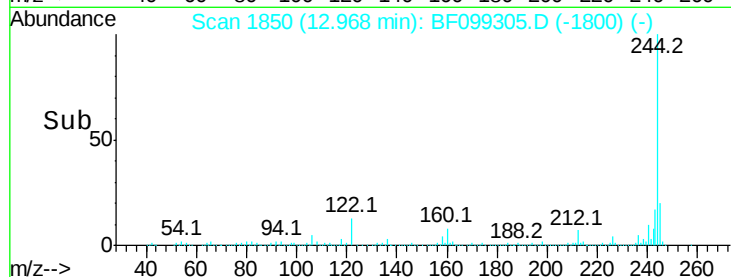
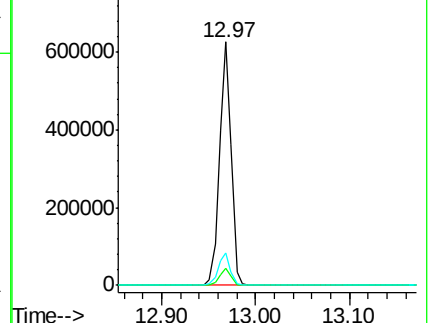
122 13.5 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.665 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BF099305.D

Acq: 10 Oct 2017 17:35

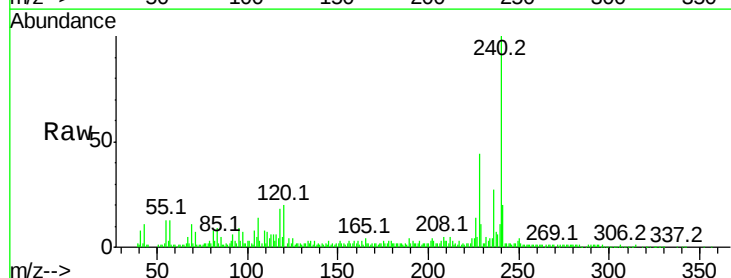
Tgt Ion:228 Resp: 47417

Ion Ratio Lower Upper

228 100

226 31.9 22.6 33.8

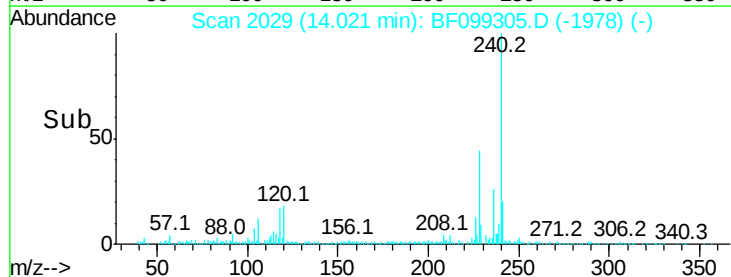
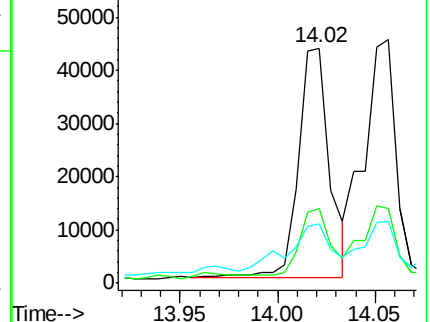
229 25.1 15.8 23.6#

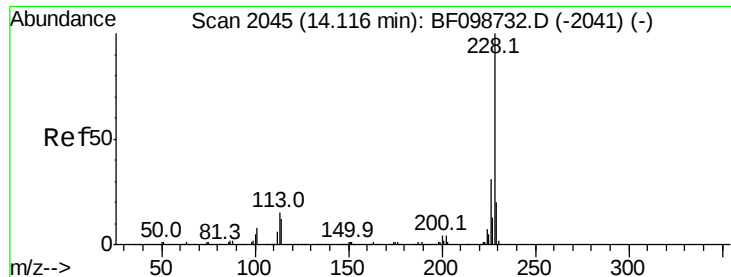


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.160 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF099305.D

Acq: 10 Oct 2017 17:35

Instrument :

BNA\_F

ClientSampleId :

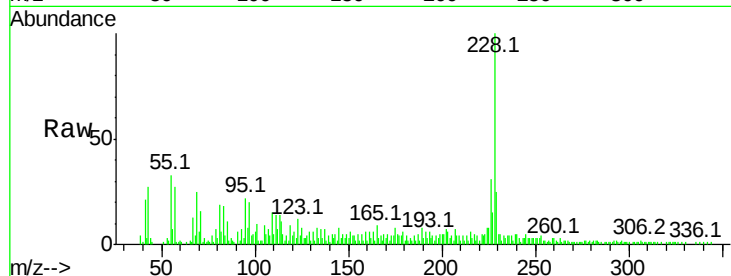
Tot Ion:228 Resp: 51251

Ion Ratio Lower Upper

228 100

226 30.7 25.0 37.6

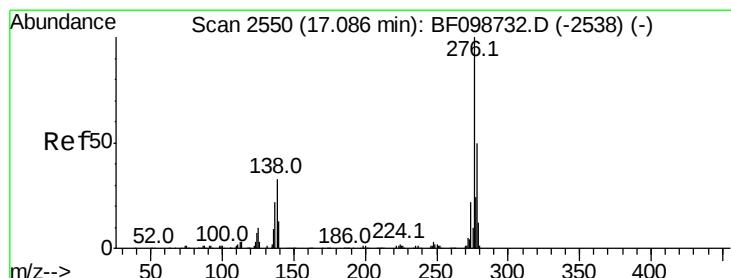
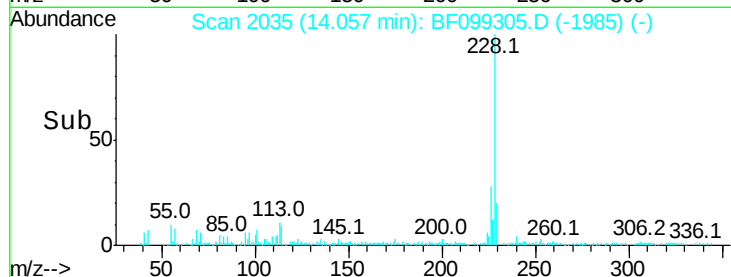
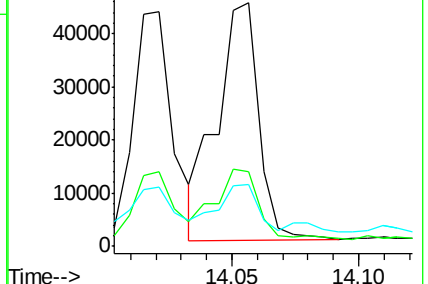
229 25.3 16.2 24.4#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.254 ng

RT: 17.01 min Scan# 2537

Delta R.T. 0.02 min

Lab File: BF099305.D

Acq: 10 Oct 2017 17:35

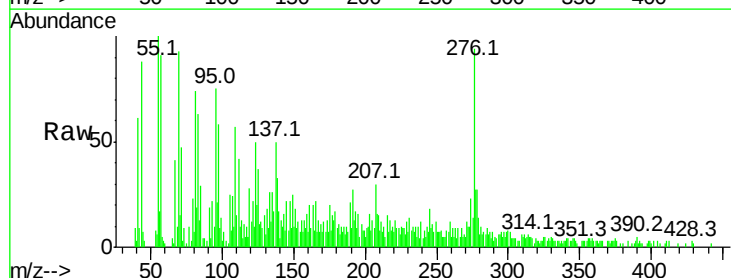
Tgt Ion:276 Resp: 22213

Ion Ratio Lower Upper

276 100

138 32.3 25.0 37.6

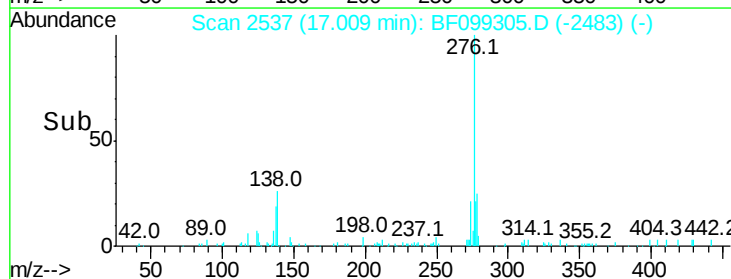
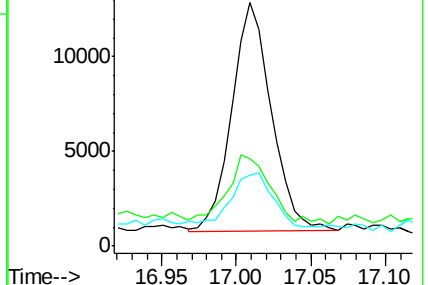
277 24.5 20.1 30.1

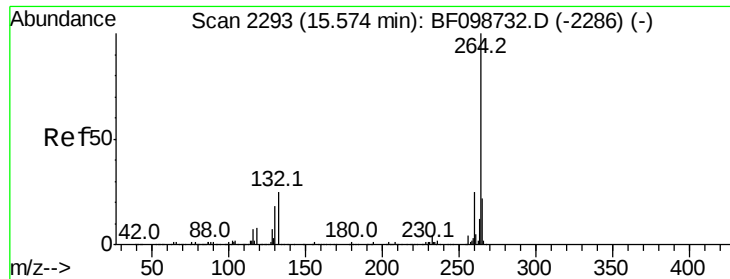


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

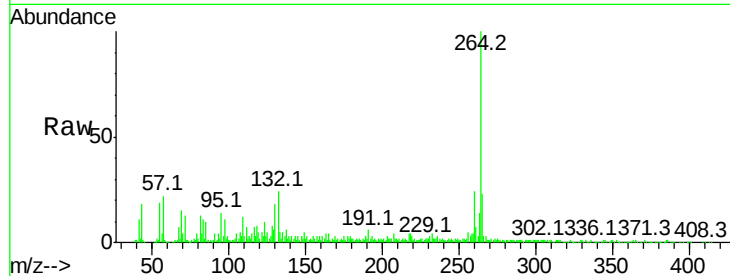




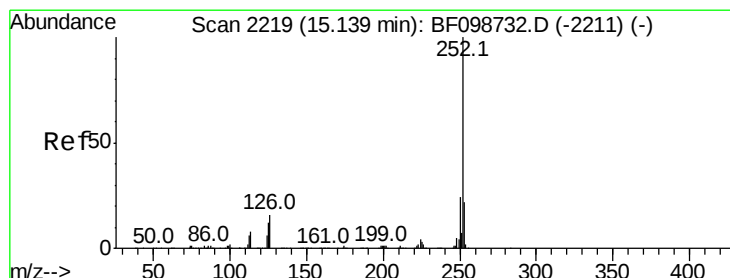
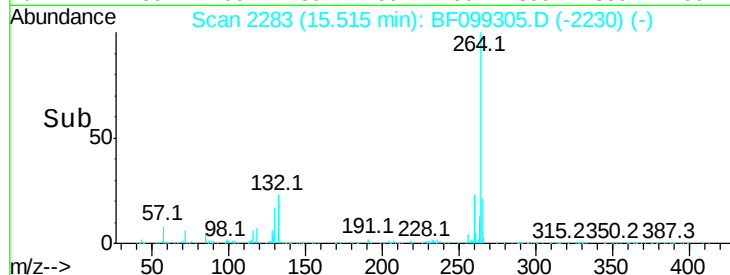
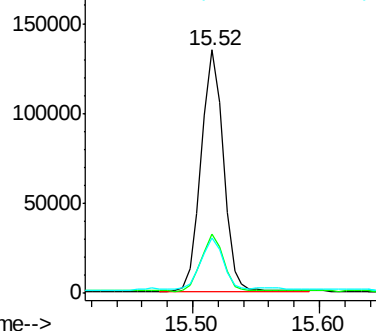
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.52 min Scan# 2283  
Delta R.T. 0.01 min  
Lab File: BF099305.D  
Acq: 10 Oct 2017 17:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 164640  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.2 28.8  
265 22.6 17.5 26.3

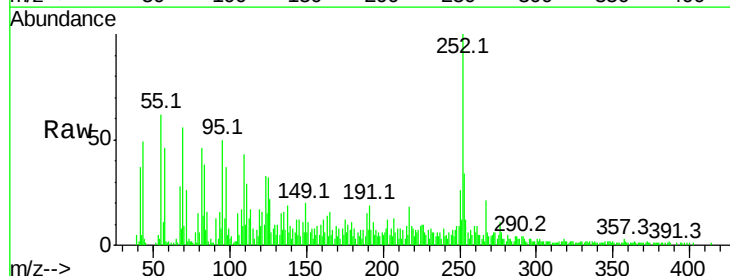


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

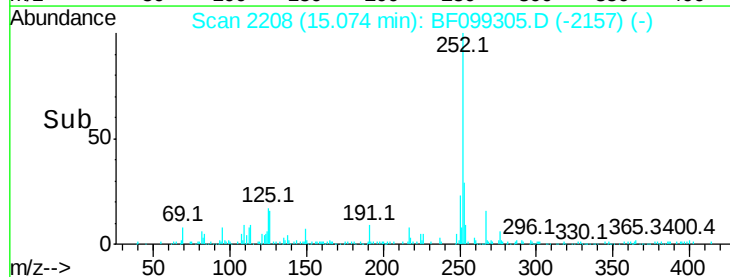
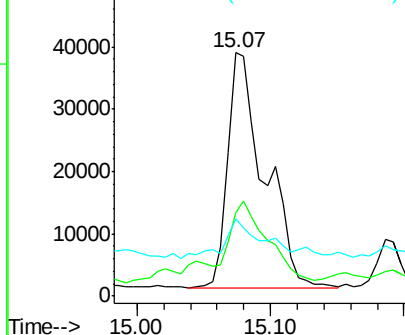


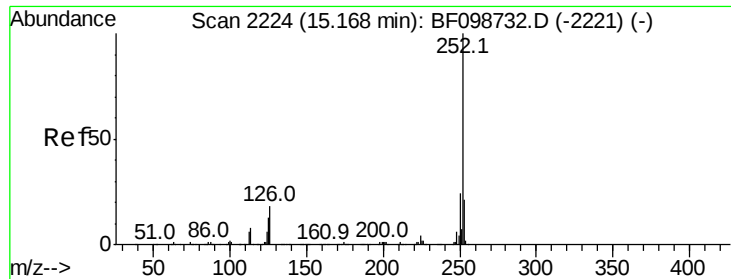
#87  
Benzo(b)fluoranthene  
Concen: 7.235 ng  
RT: 15.07 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: BF099305.D  
Acq: 10 Oct 2017 17:35

Tgt Ion:252 Resp: 73242  
Ion Ratio Lower Upper  
252 100  
253 34.3 17.0 25.6#  
125 31.7 9.0 13.6#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

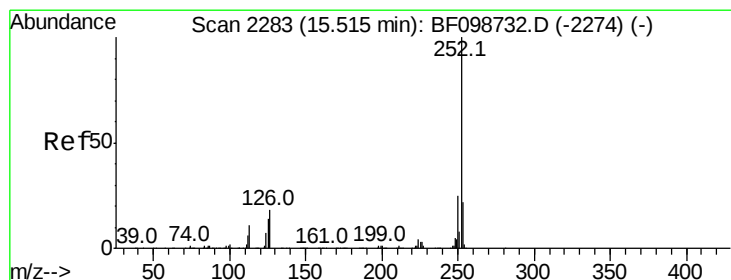
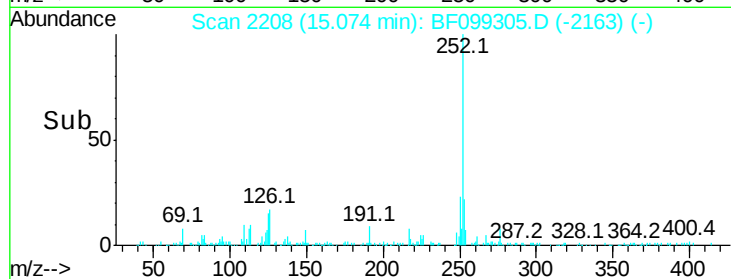
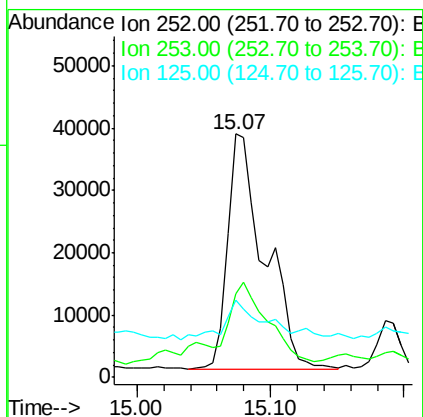
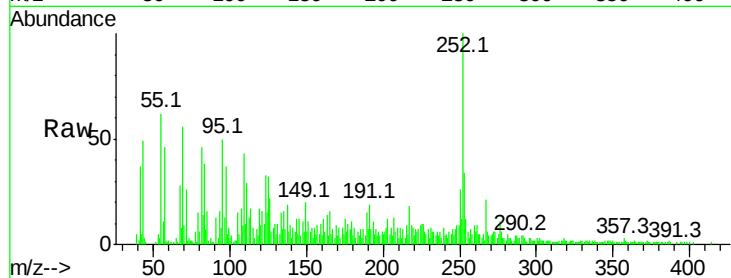




#88  
Benzo(k)fluoranthene  
Concen: 7.325 ng  
RT: 15.07 min Scan# 2208  
Delta R.T. -0.04 min  
Lab File: BF099305.D  
Acq: 10 Oct 2017 17:35

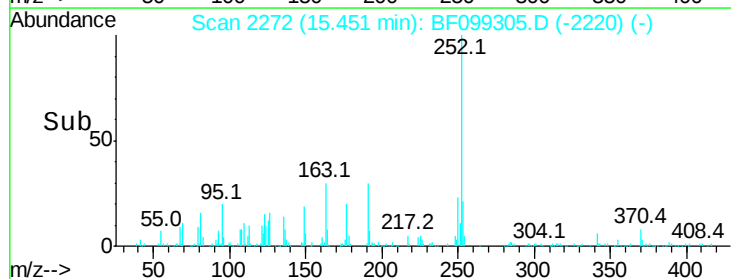
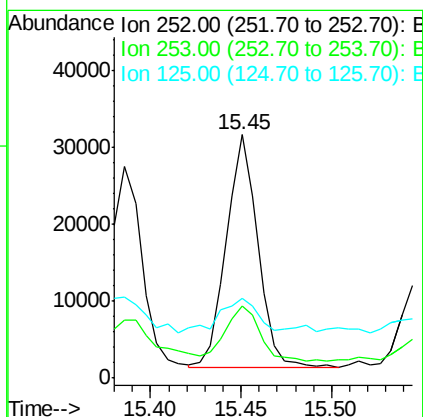
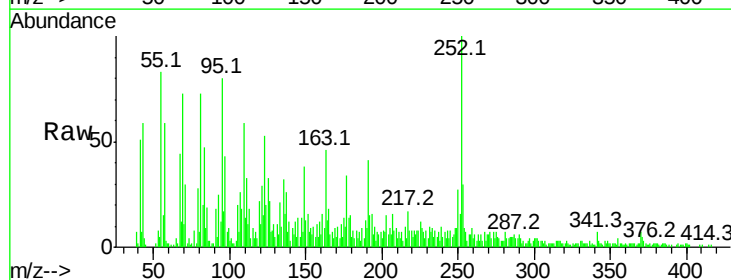
Instrument :  
BNA\_F  
ClientSampled :

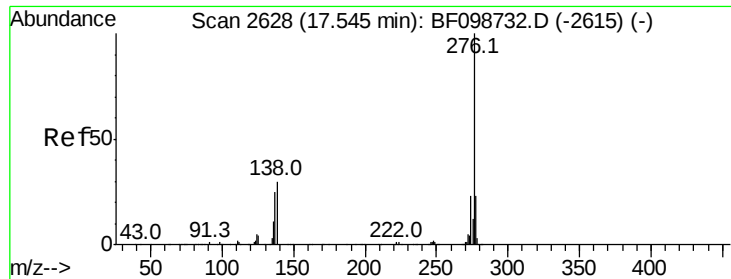
Tot Ion:252 Resp: 73242  
Ion Ratio Lower Upper  
252 100  
253 34.3 17.9 26.9#  
125 31.7 10.2 15.2#



#89  
Benzo(a)pyrene  
Concen: 3.924 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. 0.01 min  
Lab File: BF099305.D  
Acq: 10 Oct 2017 17:35

Tgt Ion:252 Resp: 36465  
Ion Ratio Lower Upper  
252 100  
253 29.5 17.1 25.7#  
125 32.5 9.8 14.6#

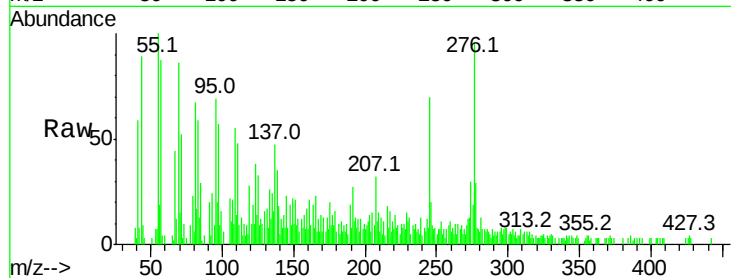




#91  
 Benzo(a,h,i)perylene  
 Concen: 3.526 ng  
 RT: 17.47 min Scan# 2615  
 Delta R.T. 0.02 min  
 Lab File: BF099305.D  
 Acq: 10 Oct 2017 17:35

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 30.2  | 17.9  | 26.9# |
| 138     | 37.1  | 21.8  | 32.8# |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

