



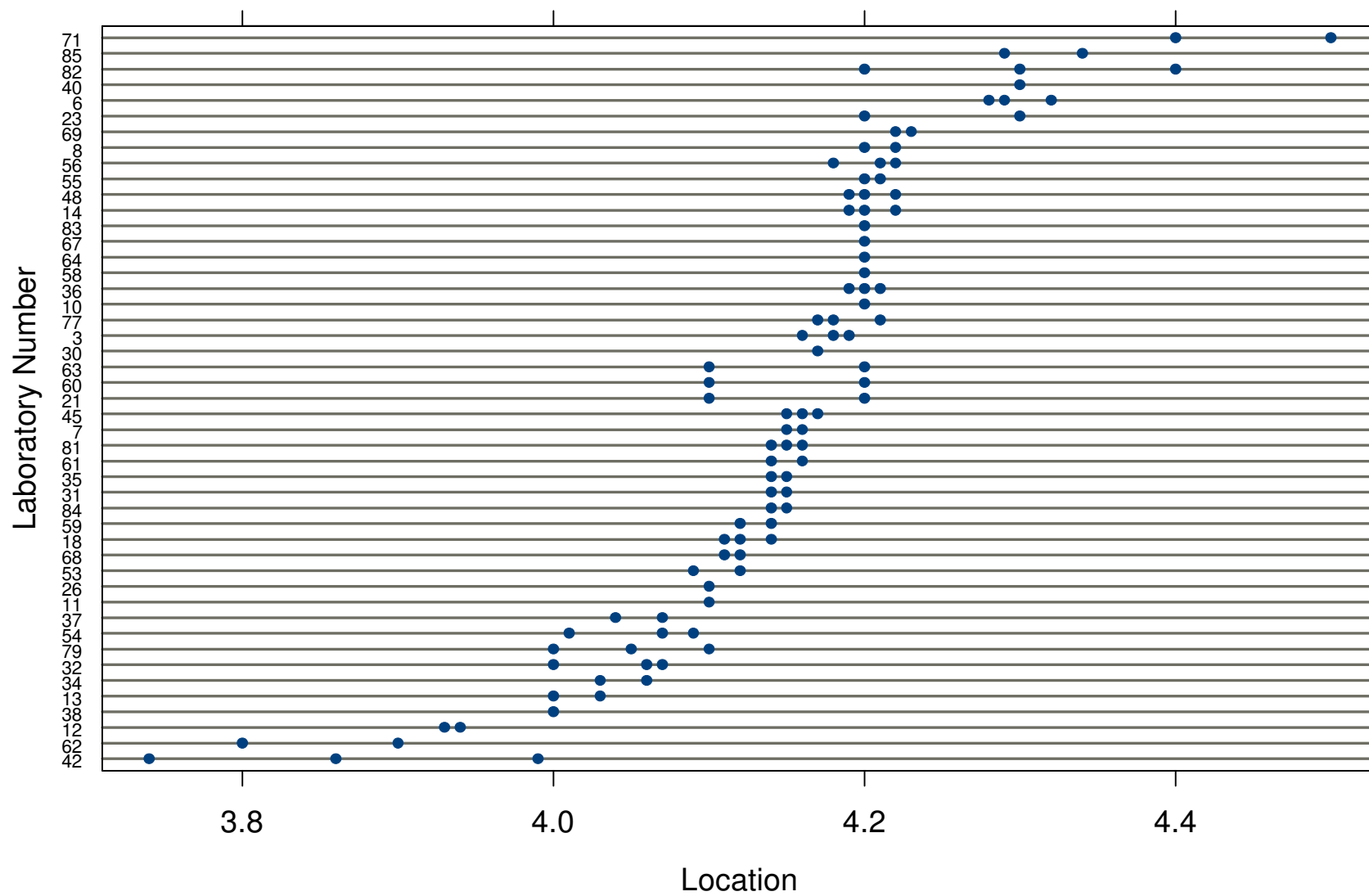
Annex 5: Statistical data analysis

Group 2: Soil reaction (SA06)

pH(CaCl₂)

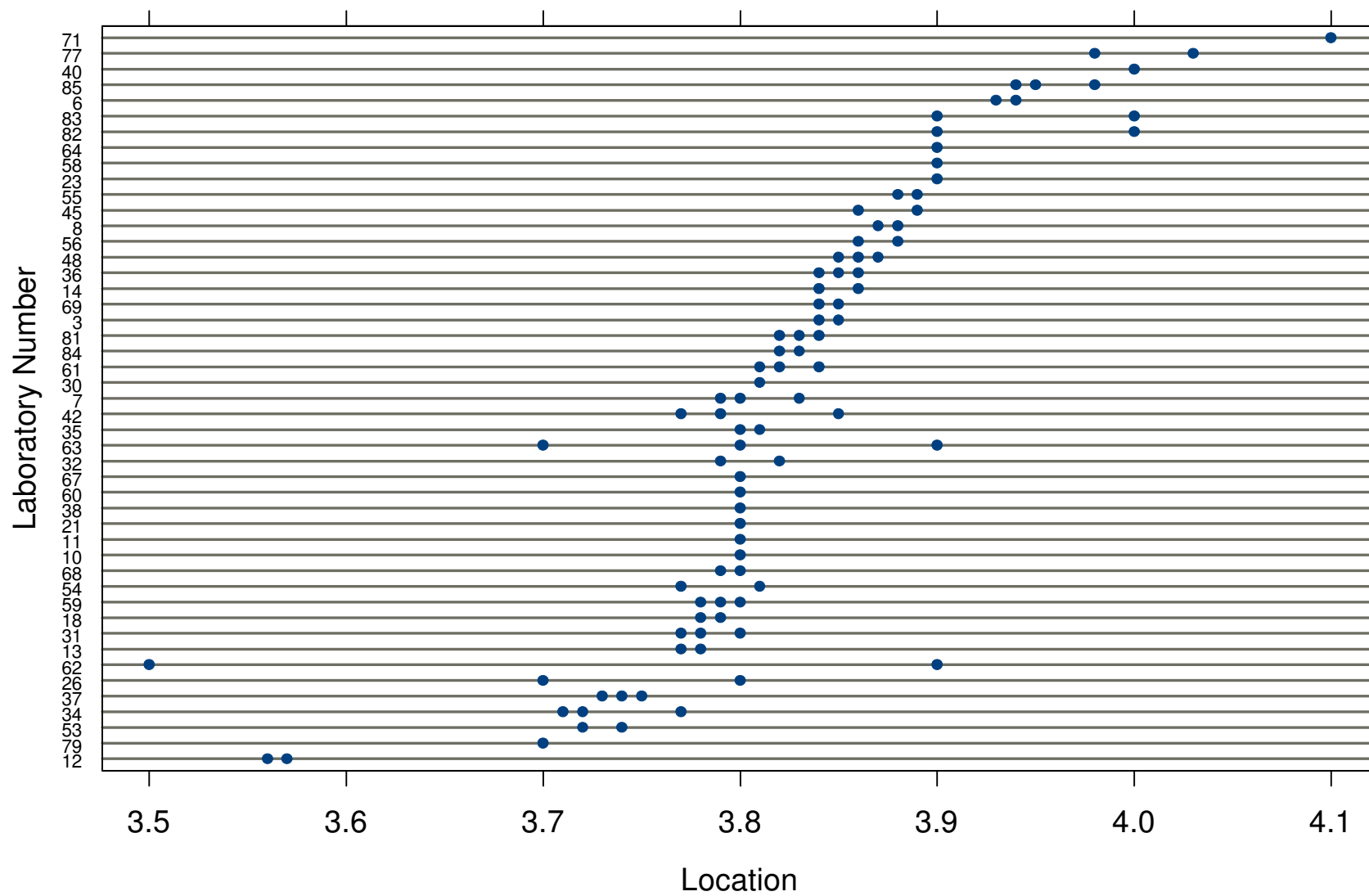
Dot plot sample A

2 - pHCaCl2 - Sample A



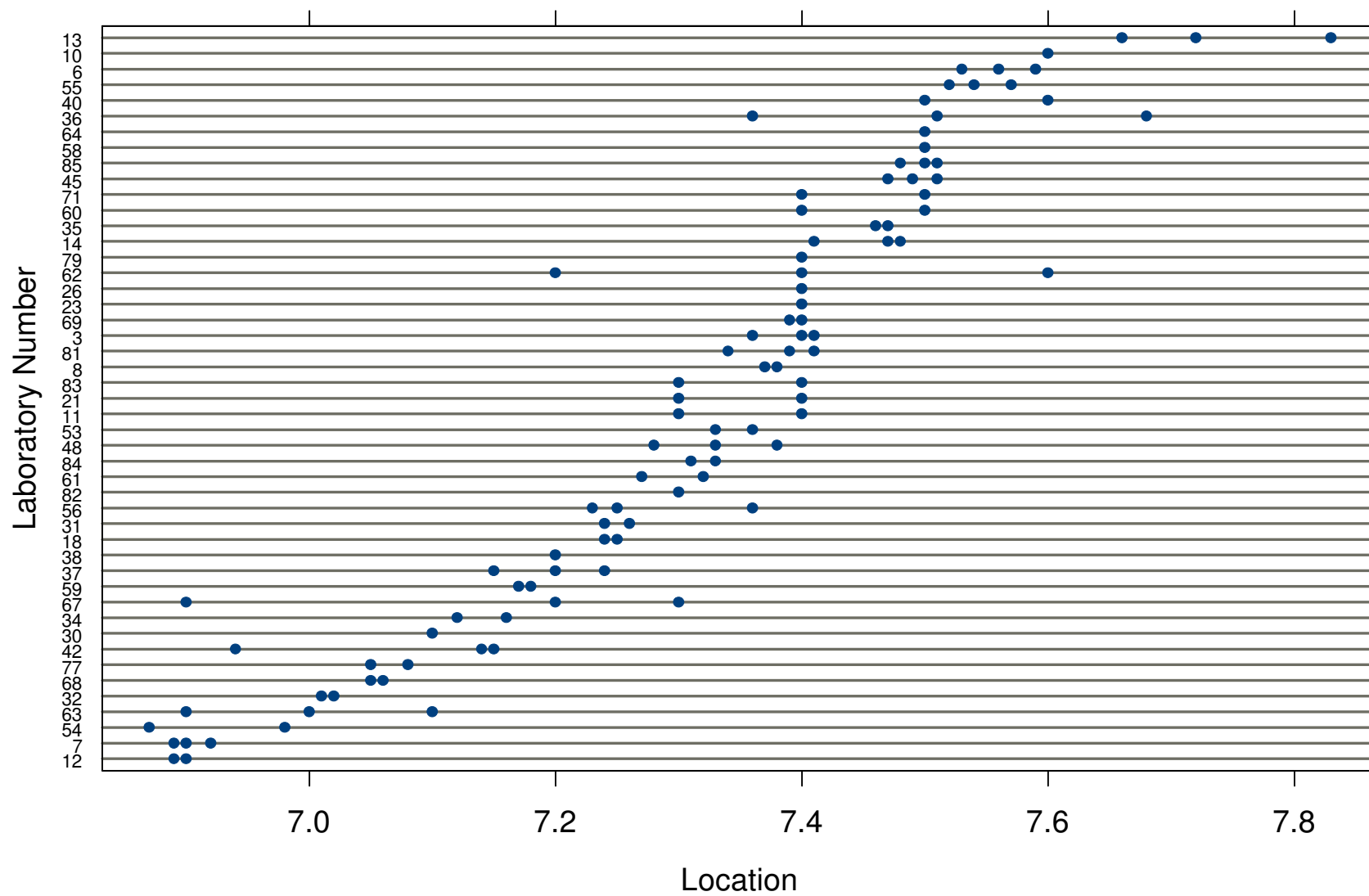
Dot plot sample B

2 - pHCaCl2 - Sample B



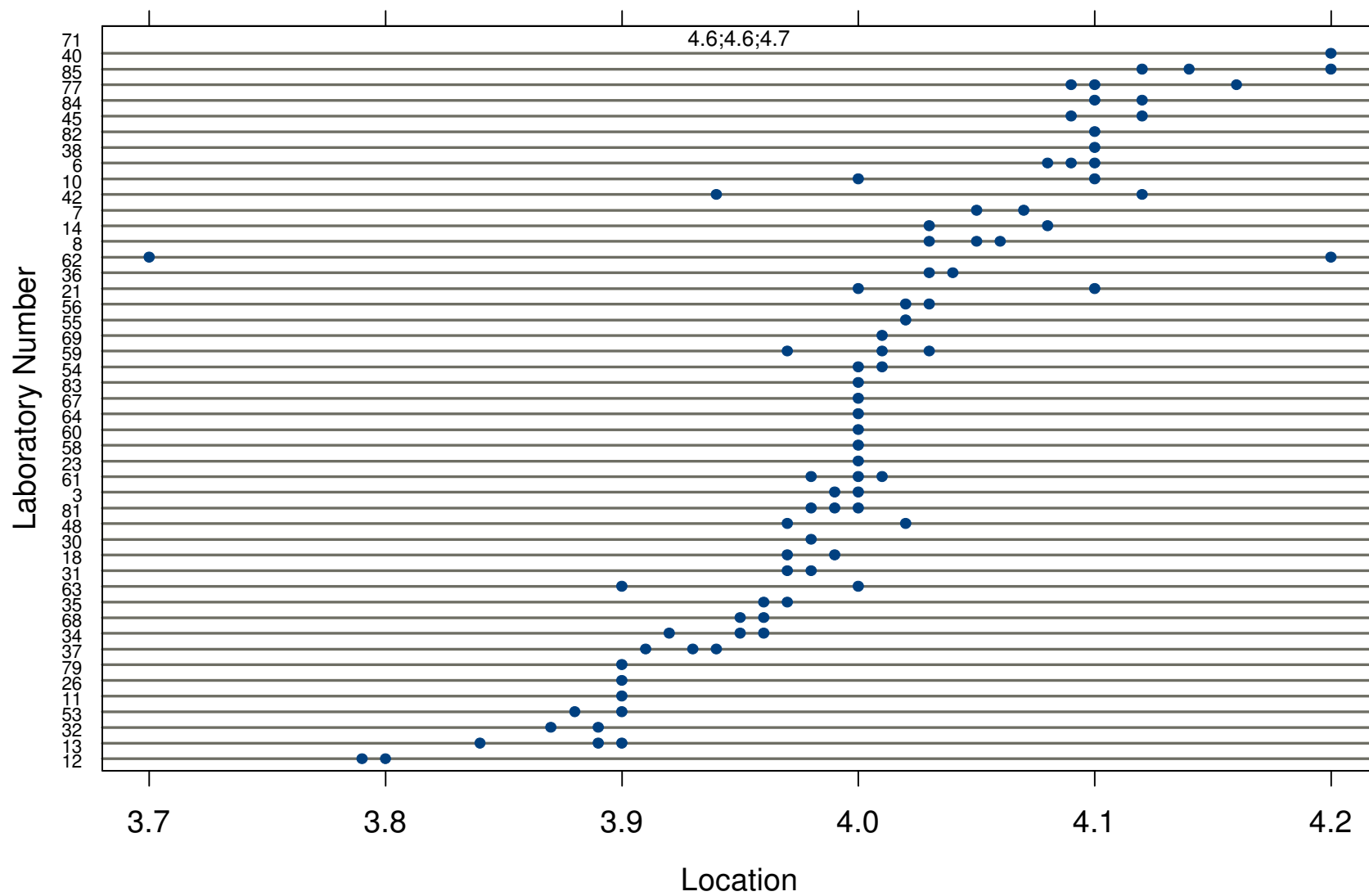
Dot plot sample C

2 - pH_{CaCl2} - Sample C



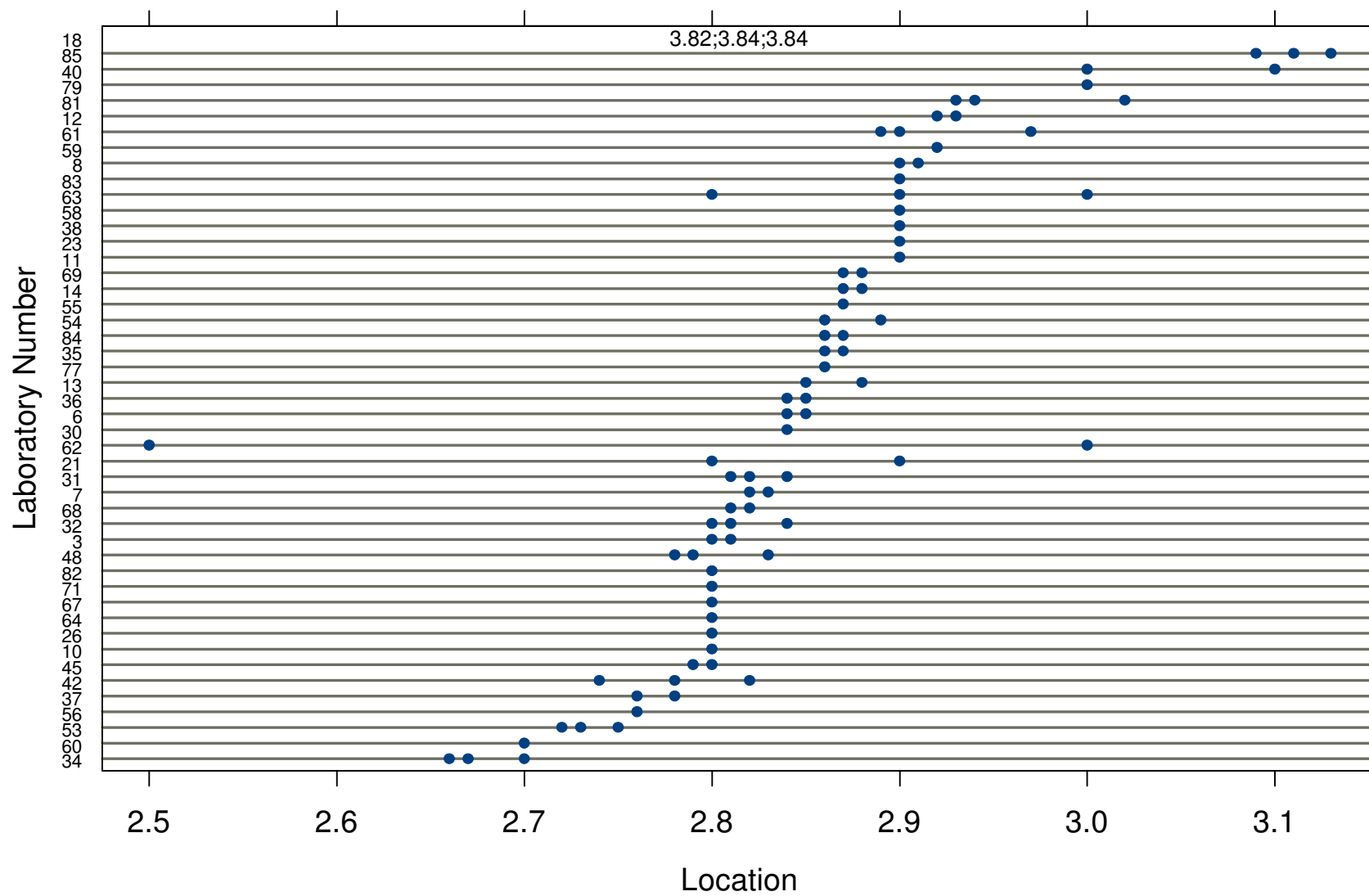
Dot plot sample D

2 - pHCaCl2 - Sample D

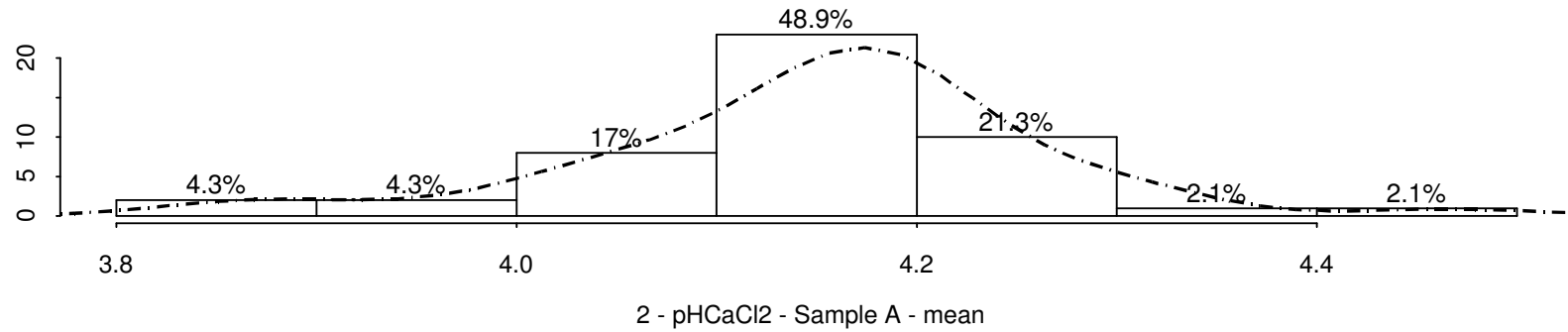


Dot plot sample E

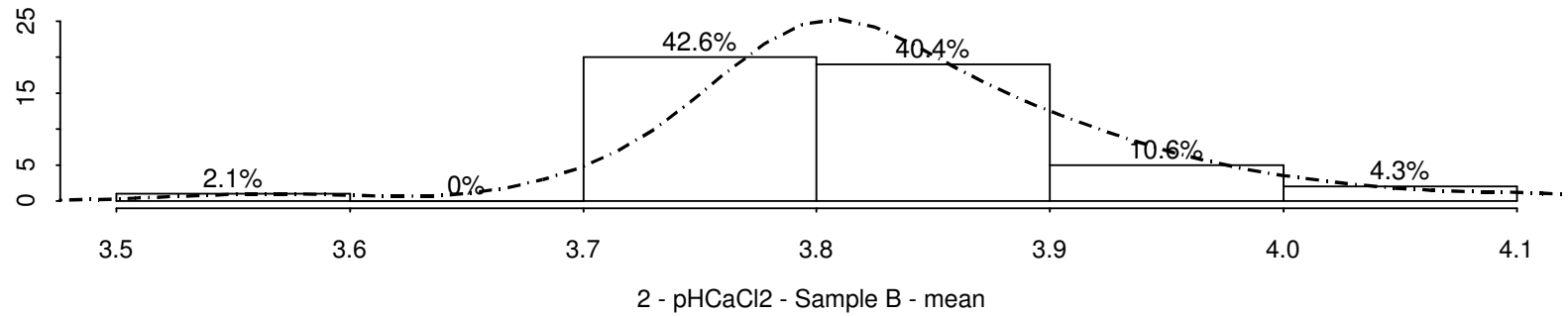
2 - pHCaCl2 - Sample E



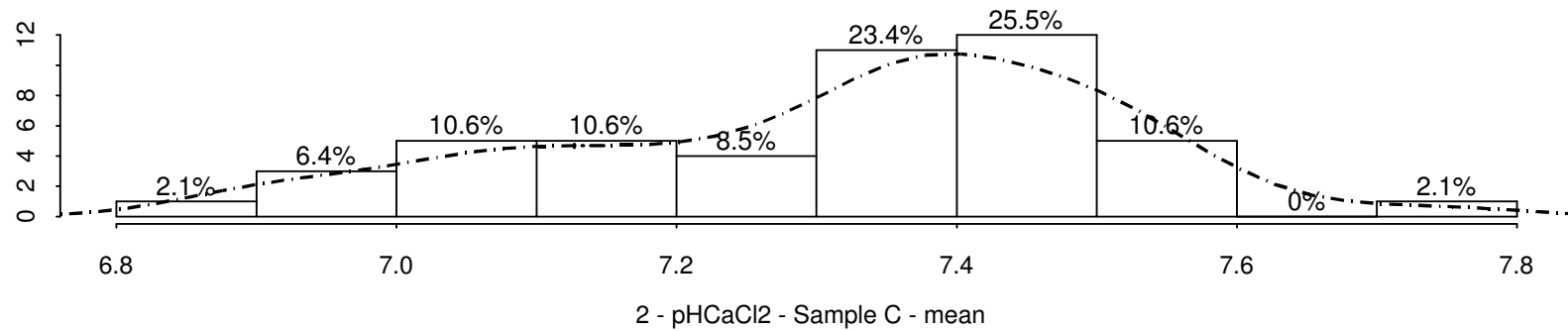
Histogram of the means of samples A, B and C



N: 47 NA: 0 Z: 0 E: 0 U: 47
a: 4.151 m: 4.167 s: 0.1096

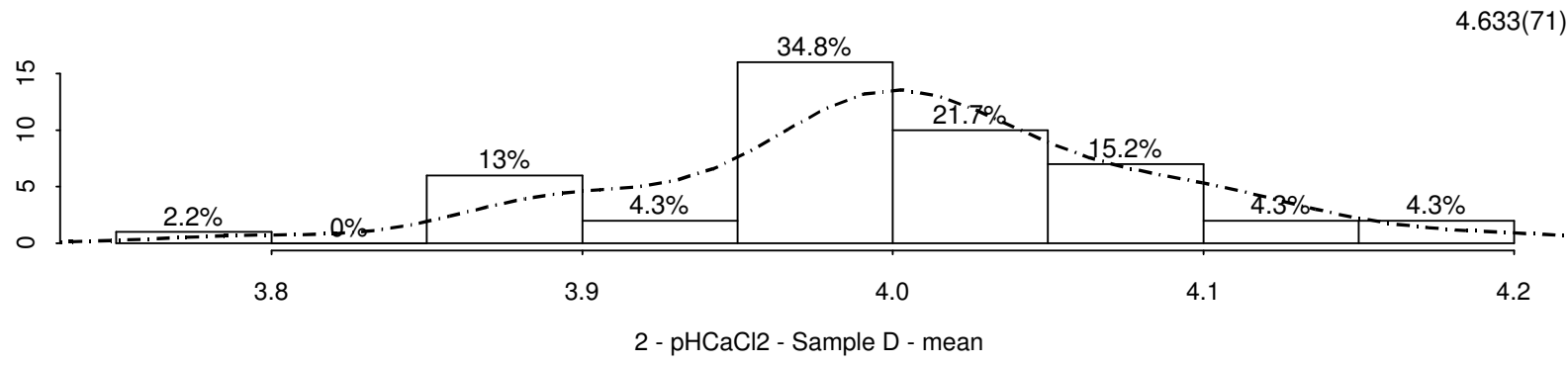


N: 47 NA: 0 Z: 0 E: 0 U: 47
a: 3.833 m: 3.807 s: 0.08758

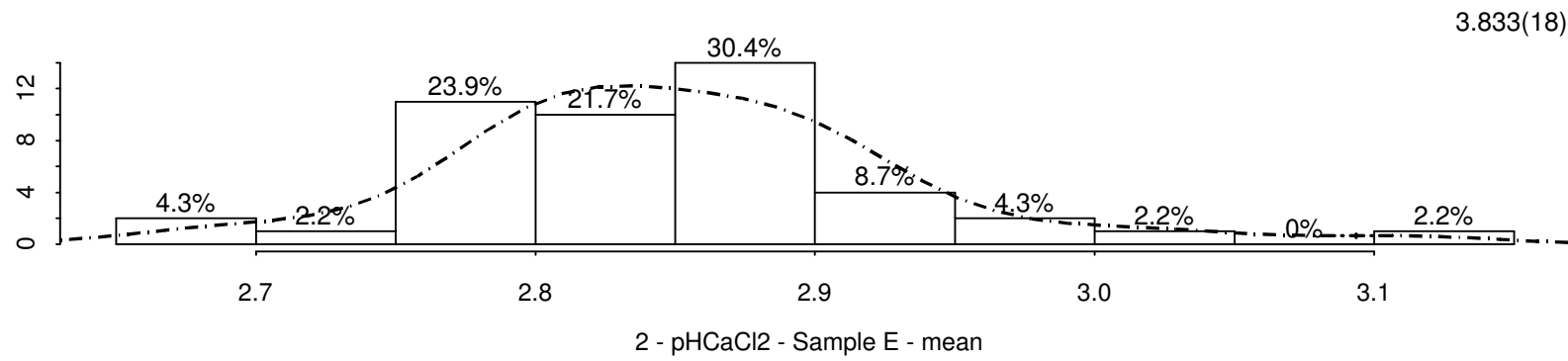


N: 47 NA: 0 Z: 0 E: 0 U: 47
a: 7.316 m: 7.367 s: 0.196

Histogram of the means of samples D and E

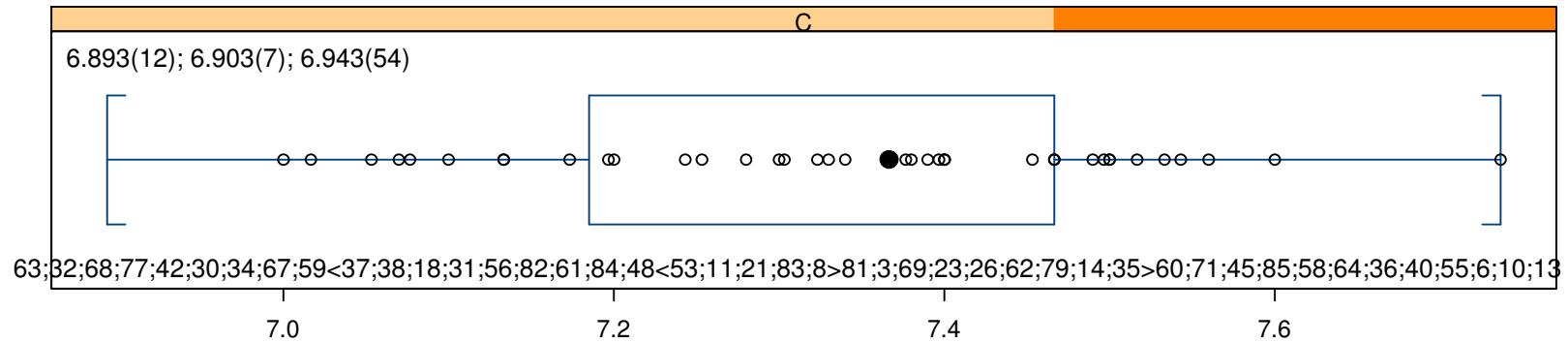
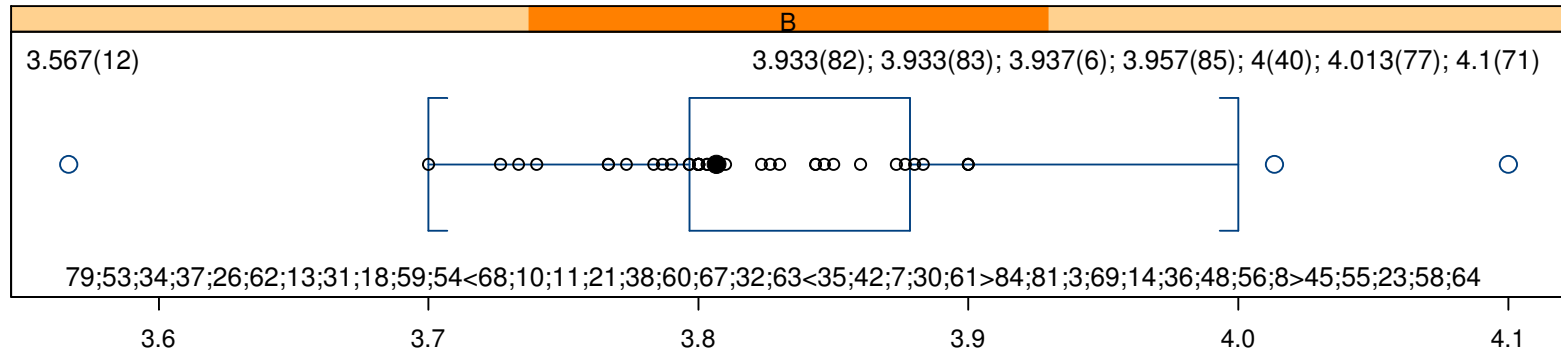
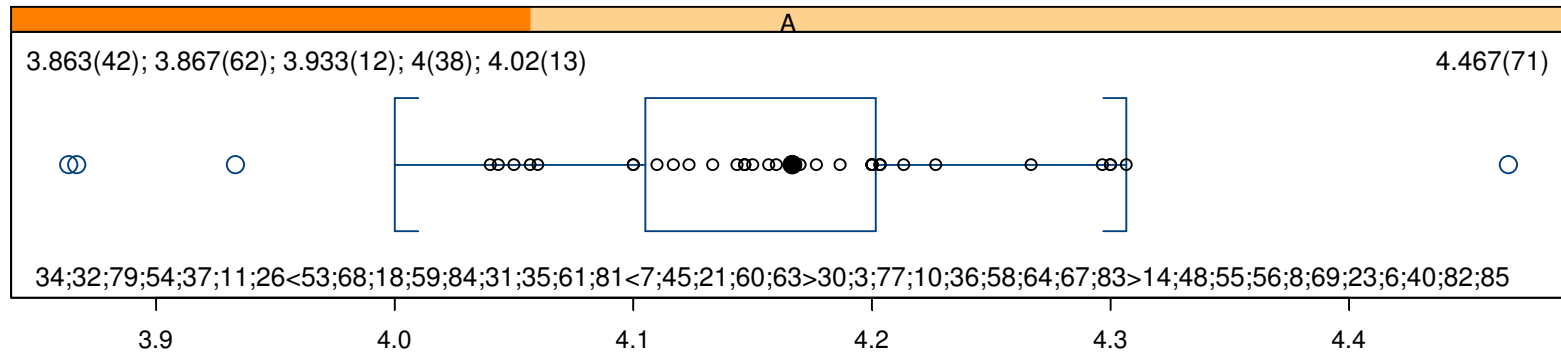


N: 47 NA: 0 Z: 0 E: 0,1 U: 46
a: 4.018 m: 4 s: 0.1203



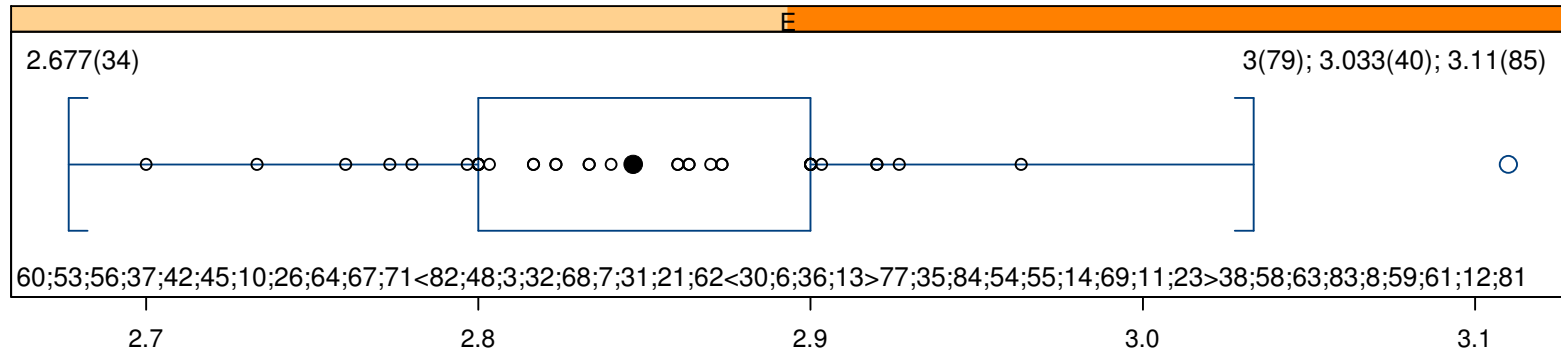
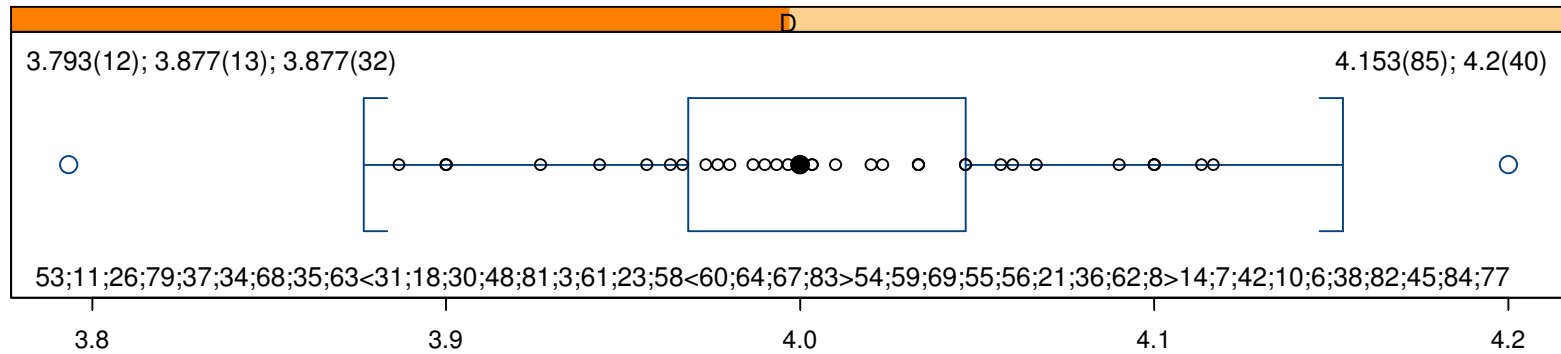
N: 47 NA: 0 Z: 0 E: 0,1 U: 46
a: 2.873 m: 2.847 s: 0.1632

Box plot of the means of samples A, B and C



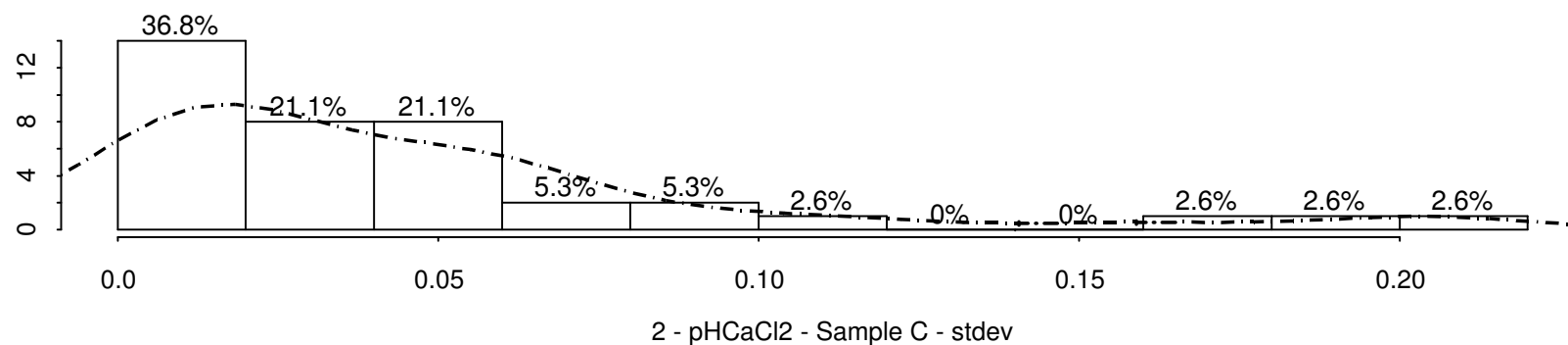
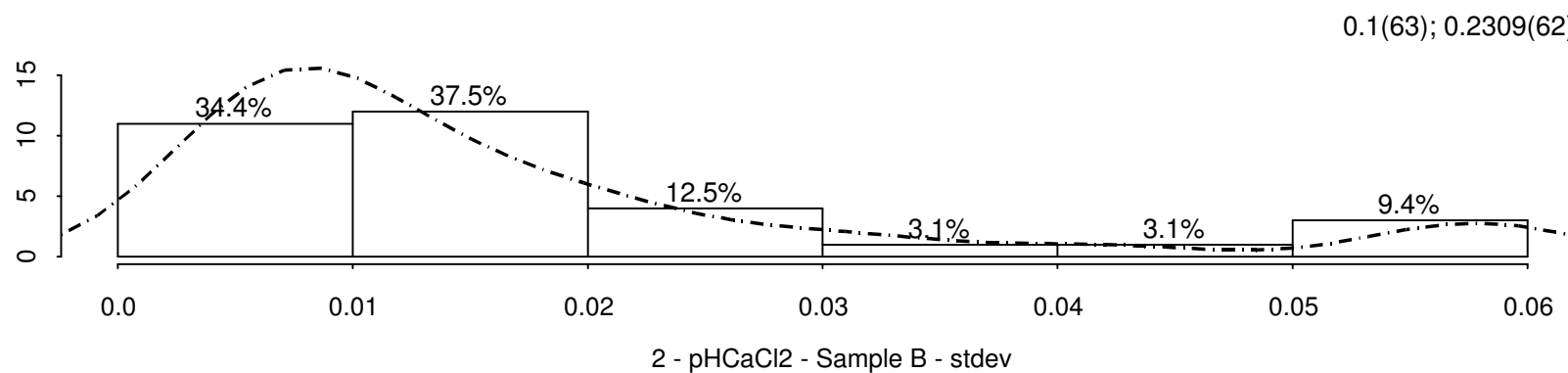
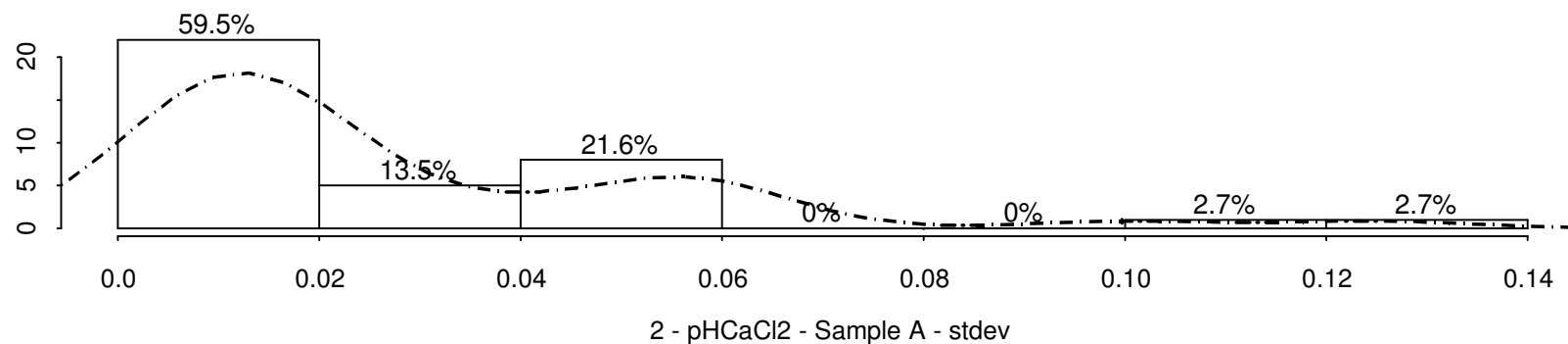
2 - pHCaCl2 - mean

Box plot of the means of samples D and E



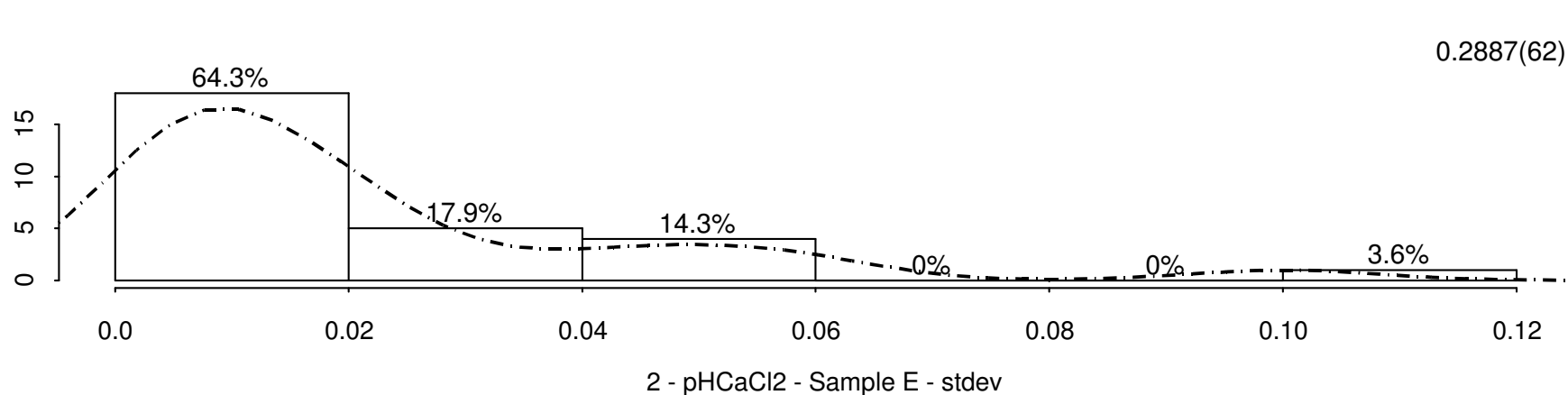
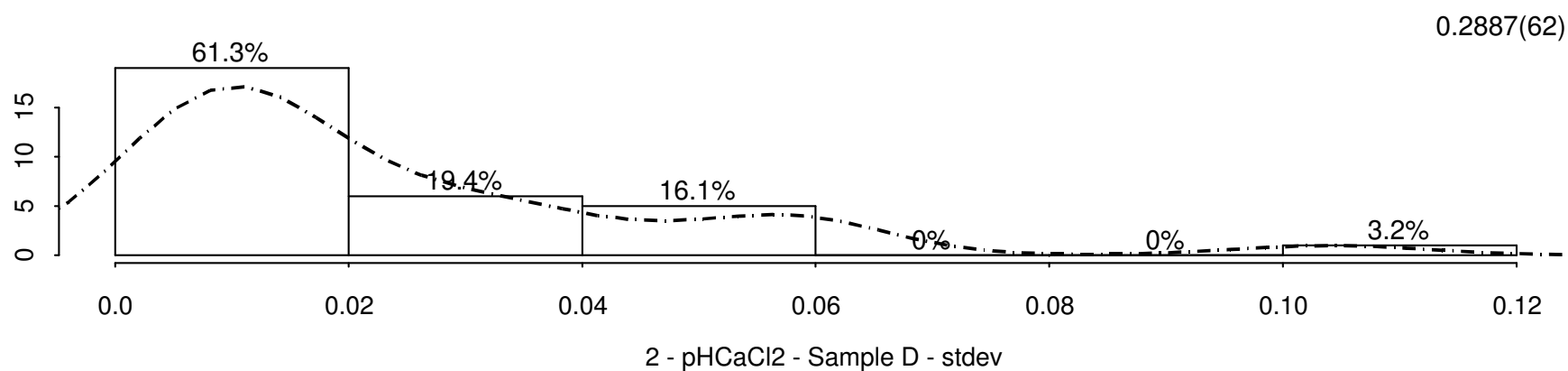
2 - pHCaCl₂ - mean

Histogram of the standard deviations of samples A, B and C



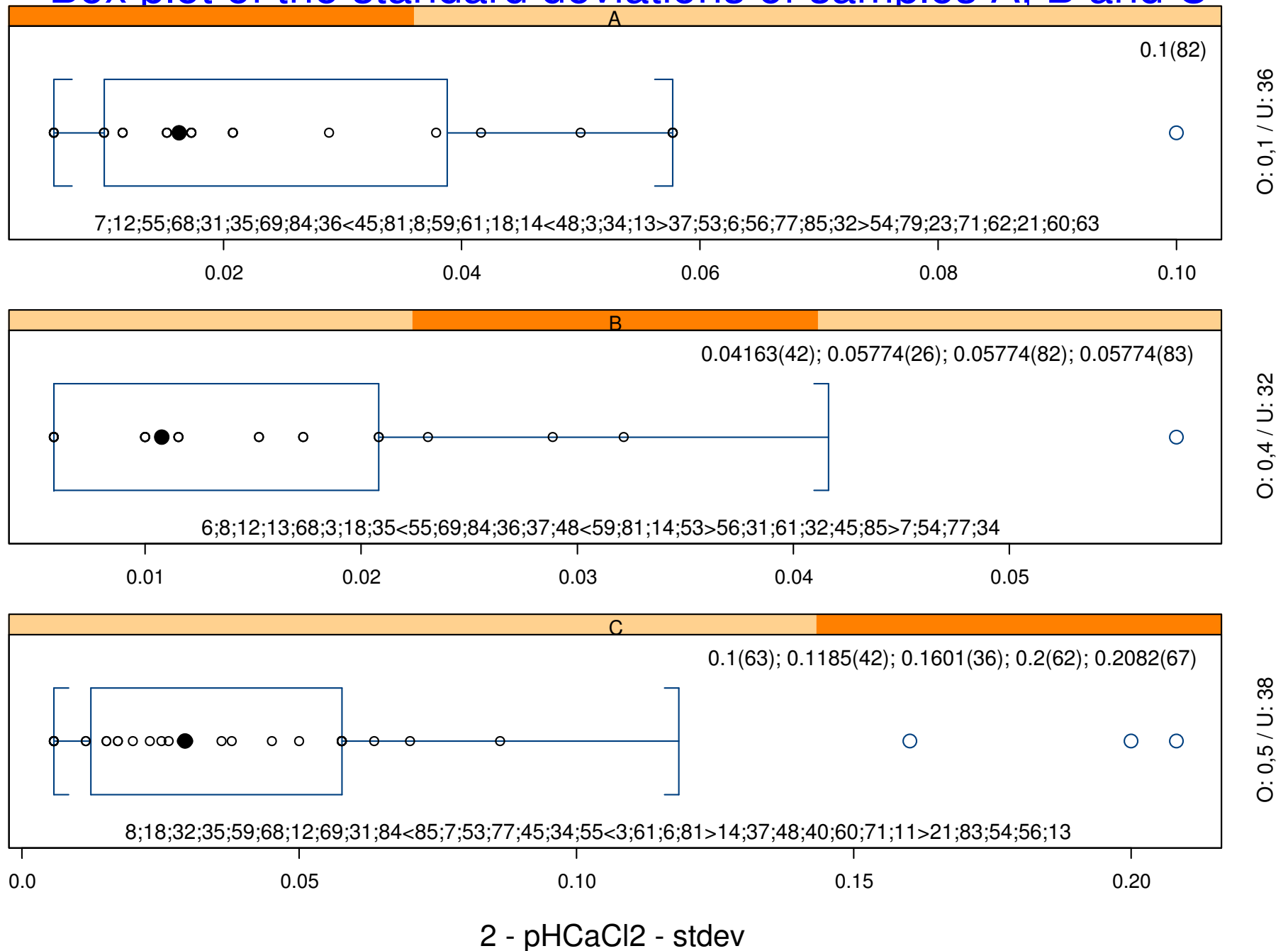
N: 37 NA: 0 Z: 0 E: 0 U: 37
 N: 34 NA: 0 Z: 0 E: 0.2 U: 32
 N: 38 NA: 0 Z: 0 E: 0 U: 38
 a: 0.04763 m: 0.02943 s: 0.05094
 a: 0.04179 m: 0.01155 s: 0.04179
 a: 0.01732 m: 0.01732 s: 0.02772

Histogram of the standard deviations of samples D and E

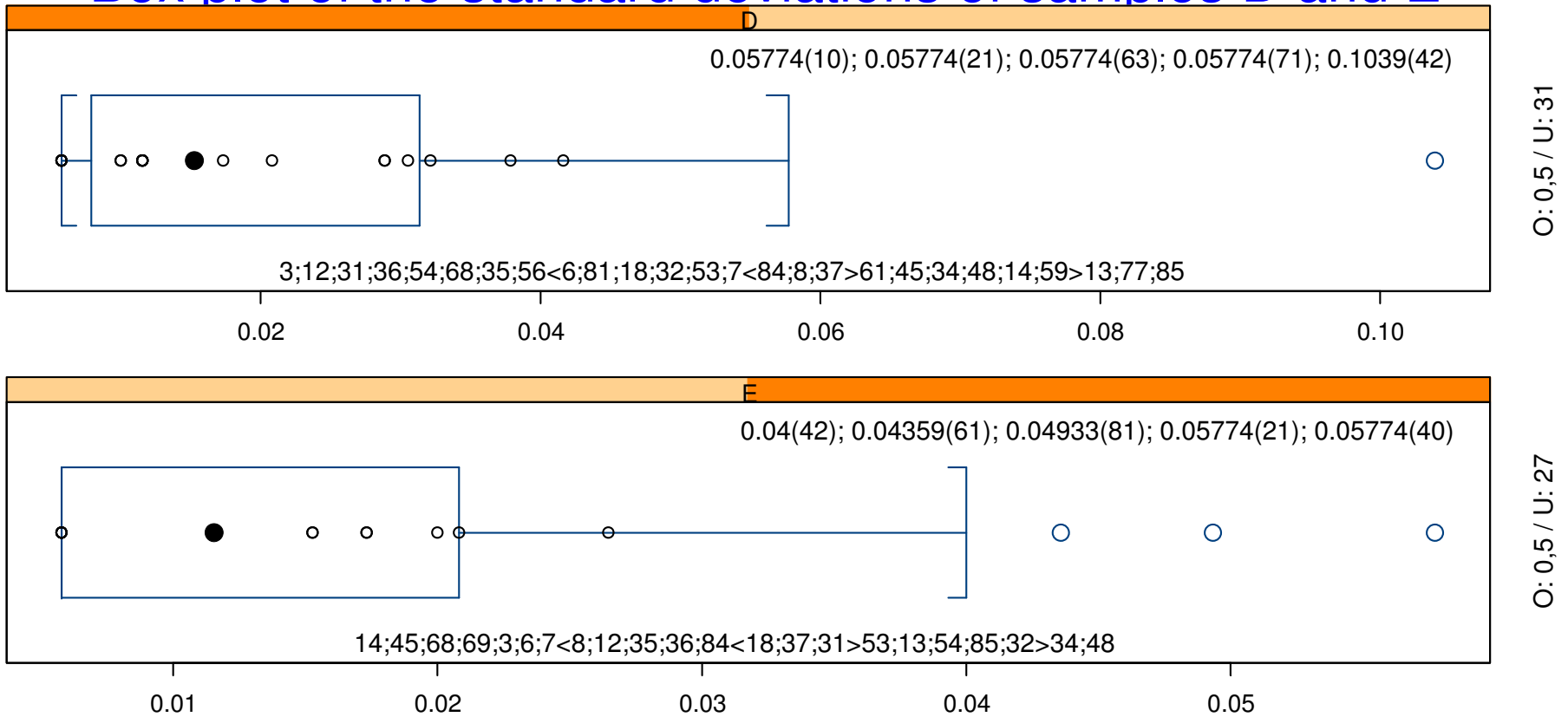


N: 32 NA: 0 Z: 0 E: 0,1 U: 31
a: 0.03044 m: 0.01528 s: 0.05437
N: 29 NA: 0 Z: 0 E: 0,1 U: 28
a: 0.03044 m: 0.01528 s: 0.05437

Box plot of the standard deviations of samples A, B and C



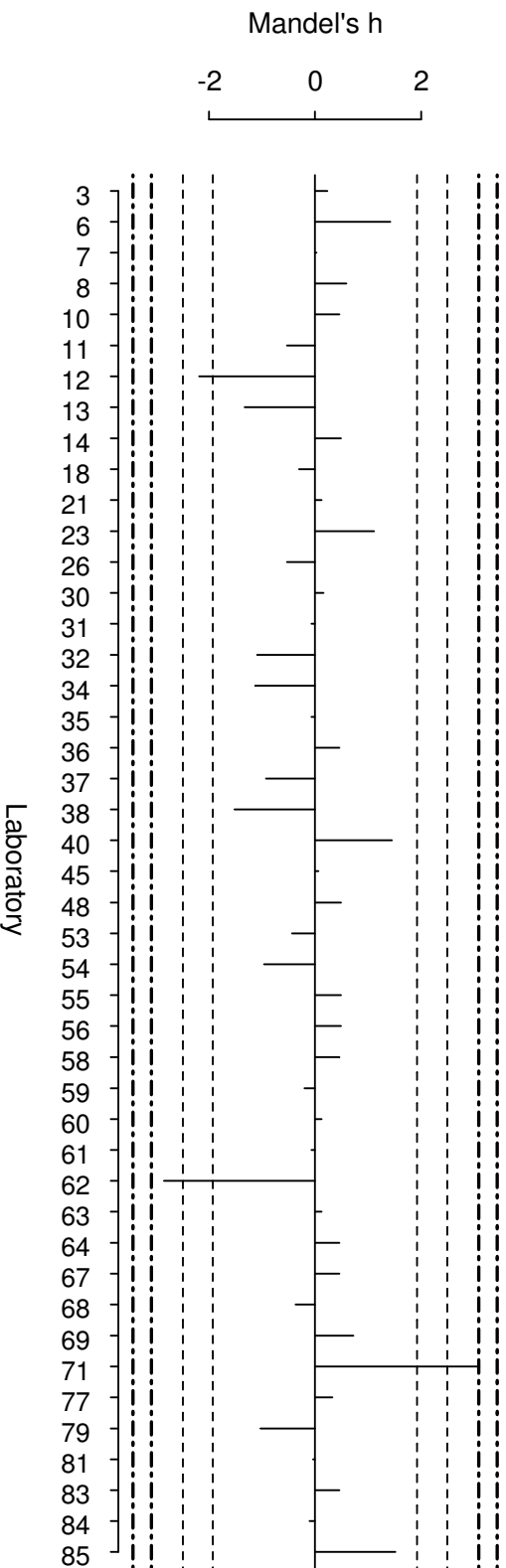
Box plot of the standard deviations of samples D and E



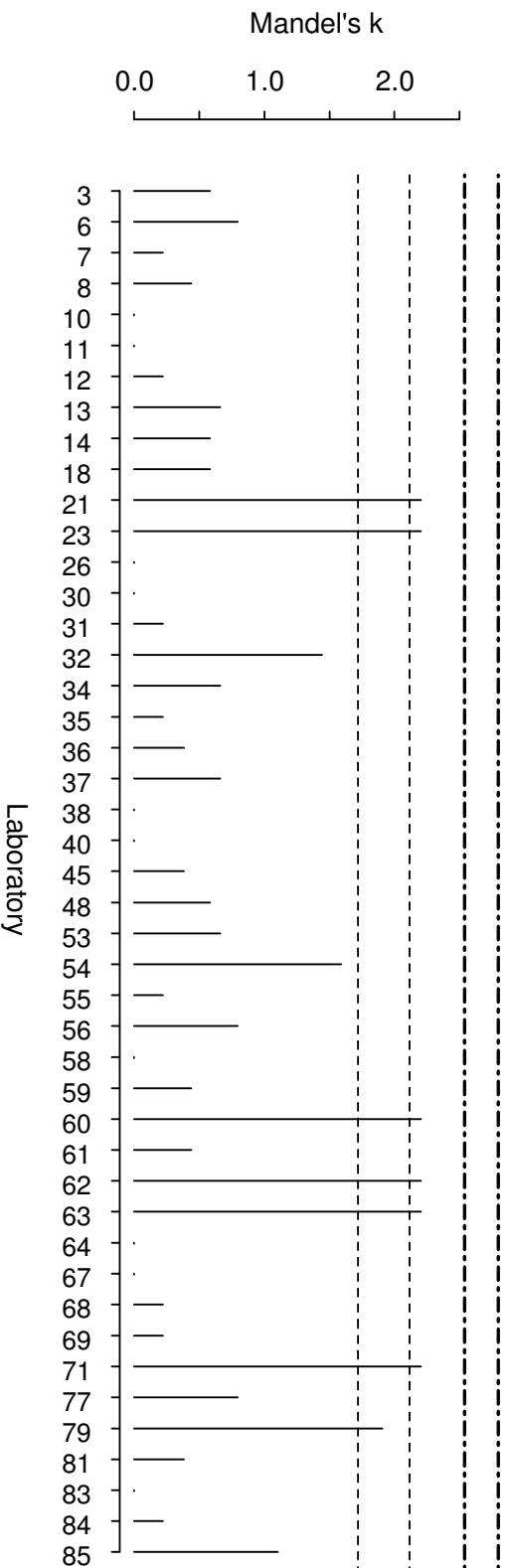
Mandel's h and k plot of sample A

2 - pHCaCl2 - Sample A

Step:2; Nlab:45; Mgen:4.154; Fval:44.4; Pval:0; sRep:0.0262; sLab:0.09967; sRpr:0.1031; CV:2.481



S: 71

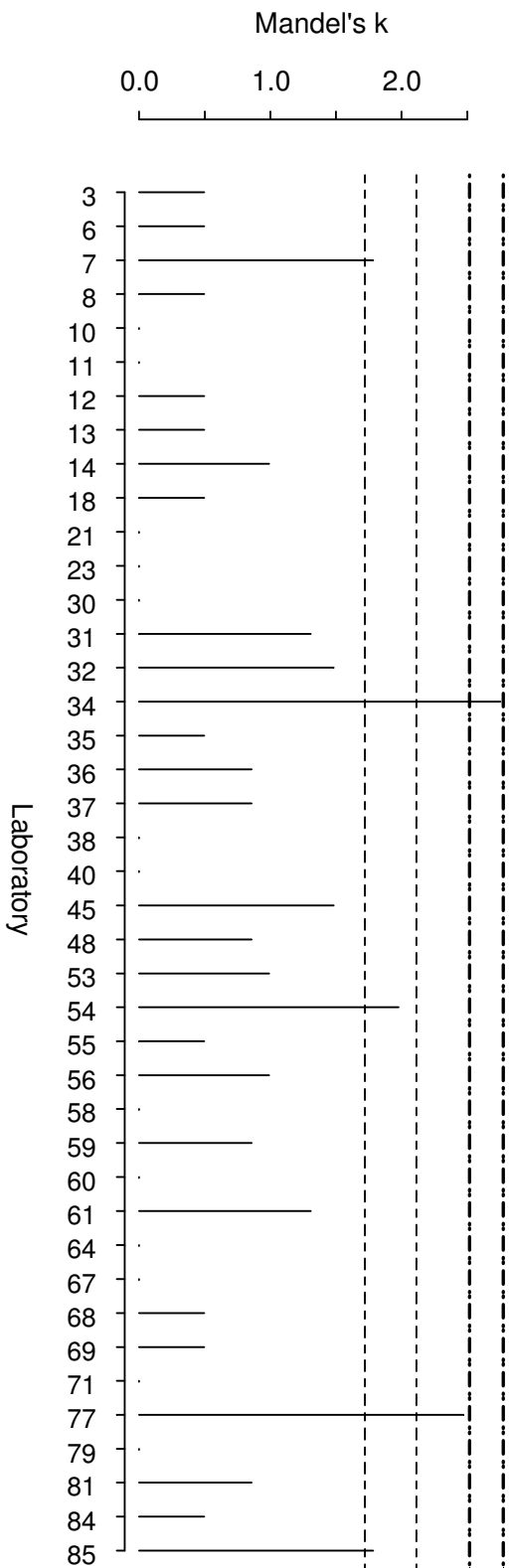
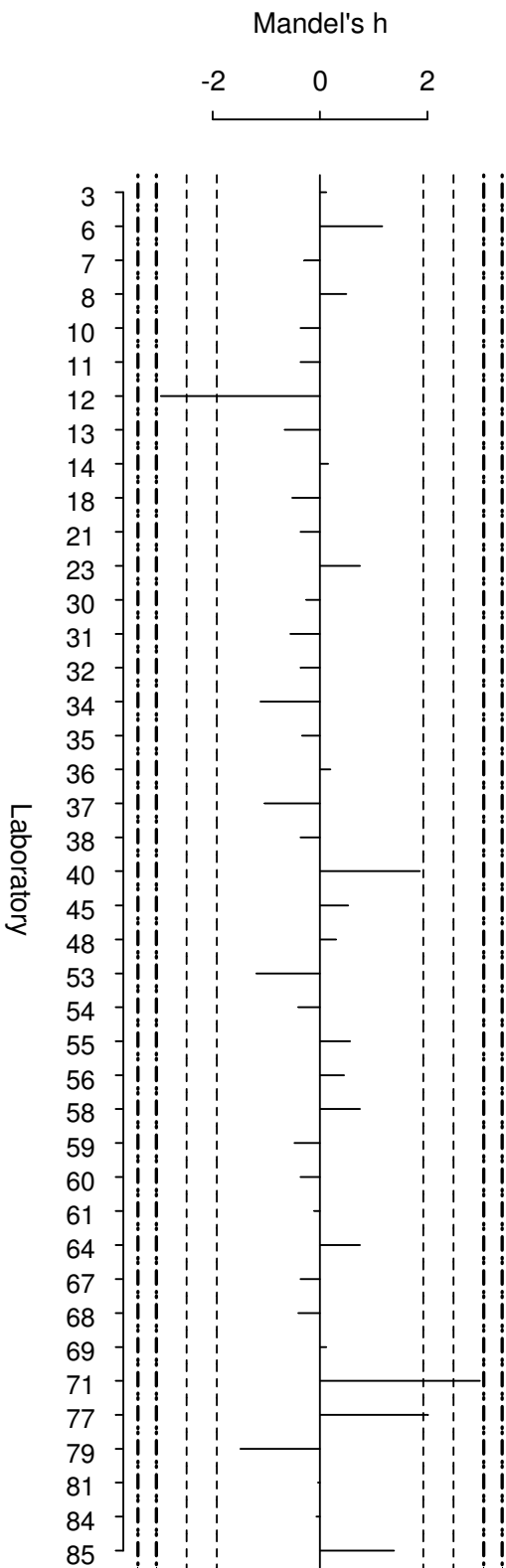


E: k42;k82

Mandel's h and k plot of sample B

2 - pHCaCl2 - Sample B

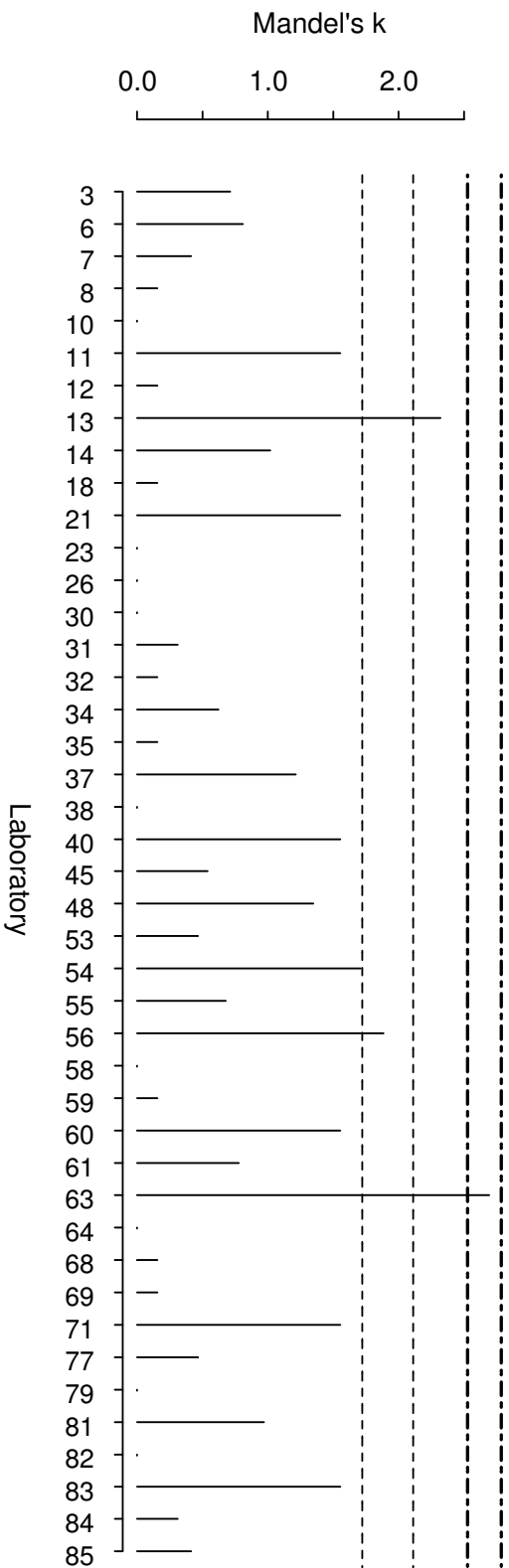
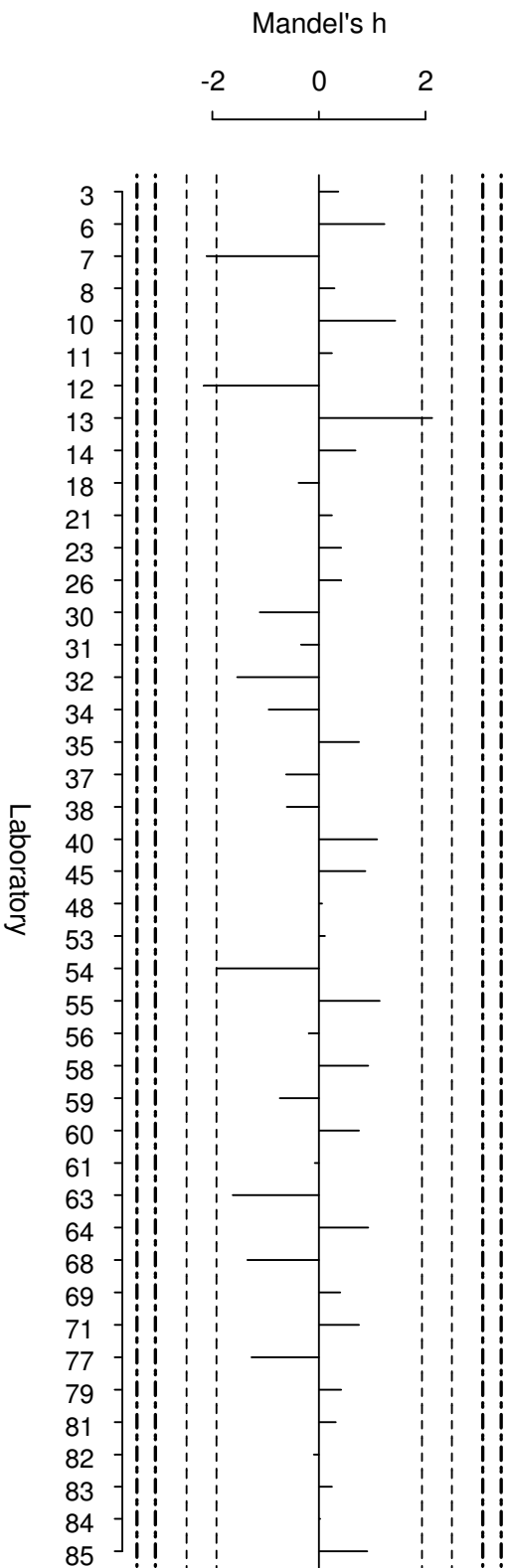
Step:5; Nlab:41; Mgen:3.833; Fval:176.8; Pval:0; sRep:0.01169; sLab:0.08946; sRpr:0.09022; CV:2.354



Mandel's h and k plot of sample C

2 - pHCaCl2 - Sample C

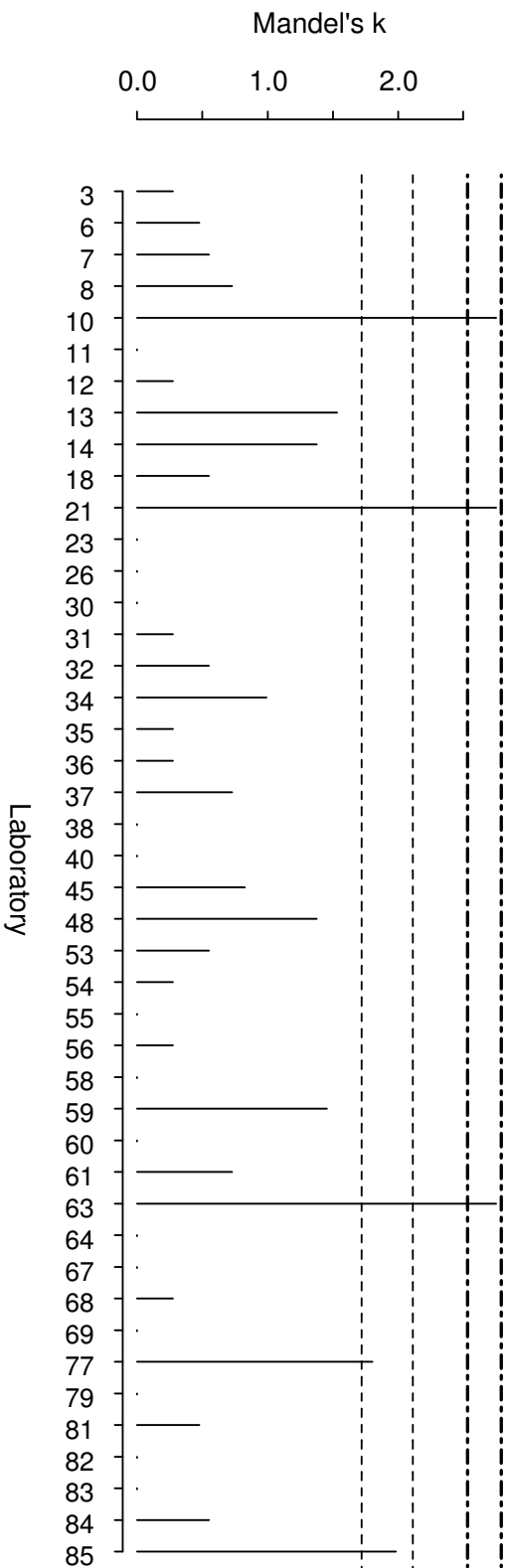
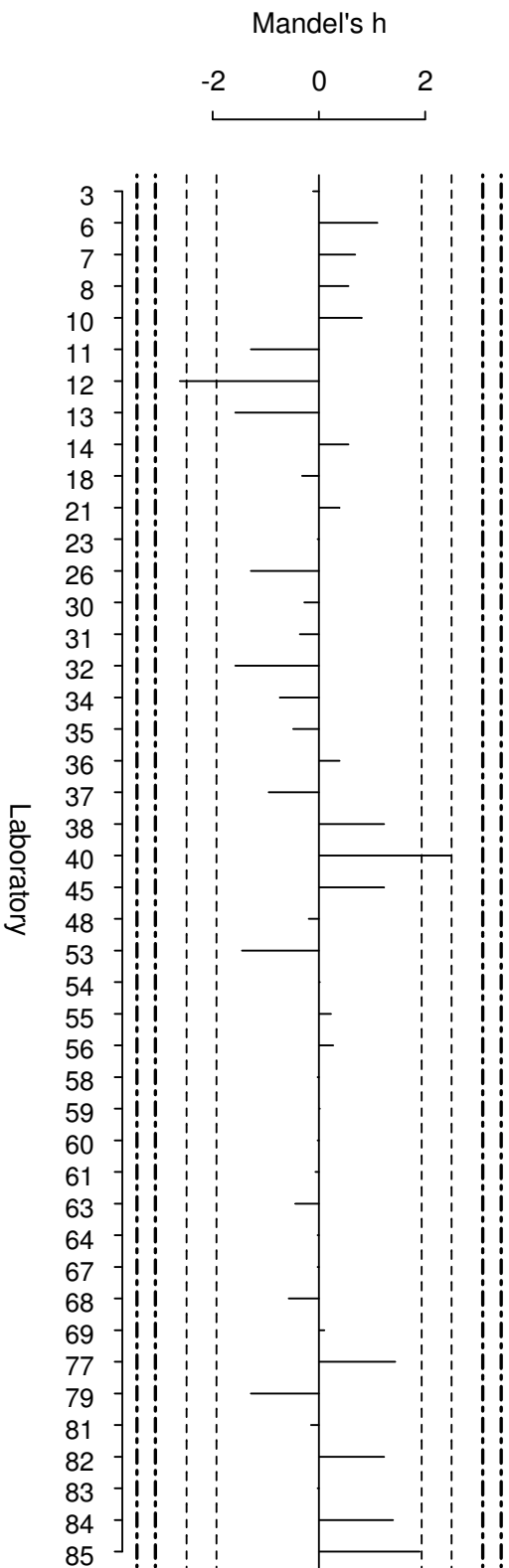
Step:4; Nlab:43; Mgen:7.319; Fval:84.44; Pval:0; sRep:0.03711; sLab:0.1957; sRpr:0.1992; CV:2.722



Mandel's h and k plot of sample D

2 - pHCaCl2 - Sample D

Step:3; Nlab:44; Mgen:4.002; Fval:43.43; Pval:0; sRep:0.02098; sLab:0.0789; sRpr:0.08164; CV:2.04



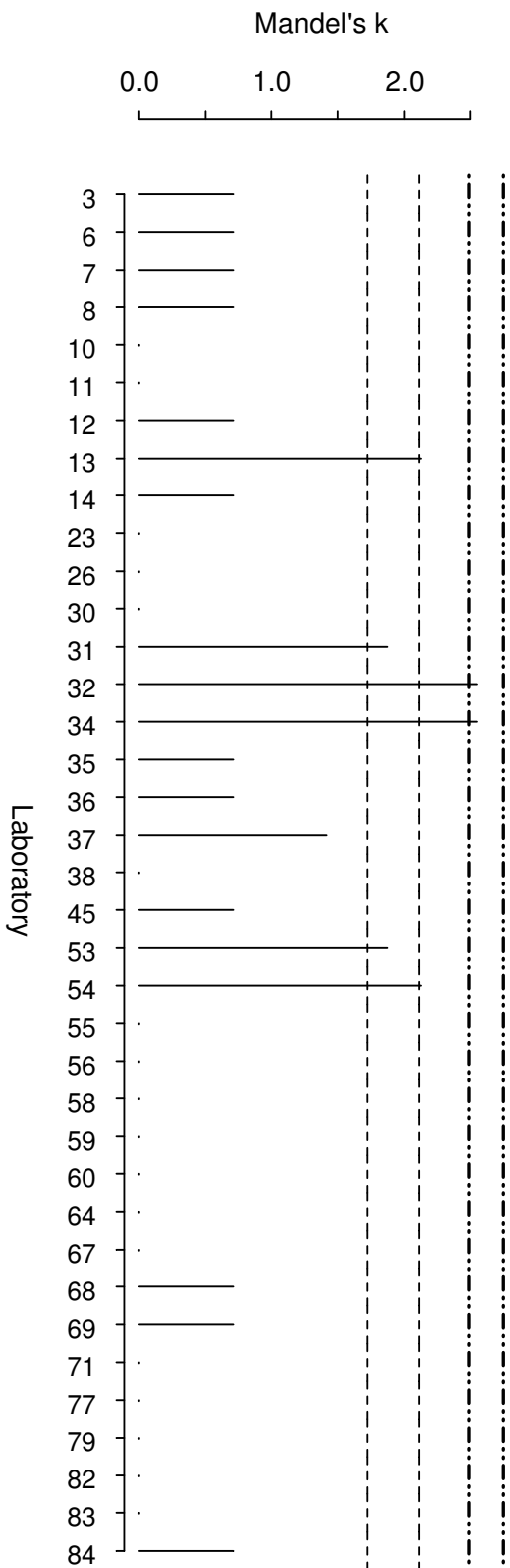
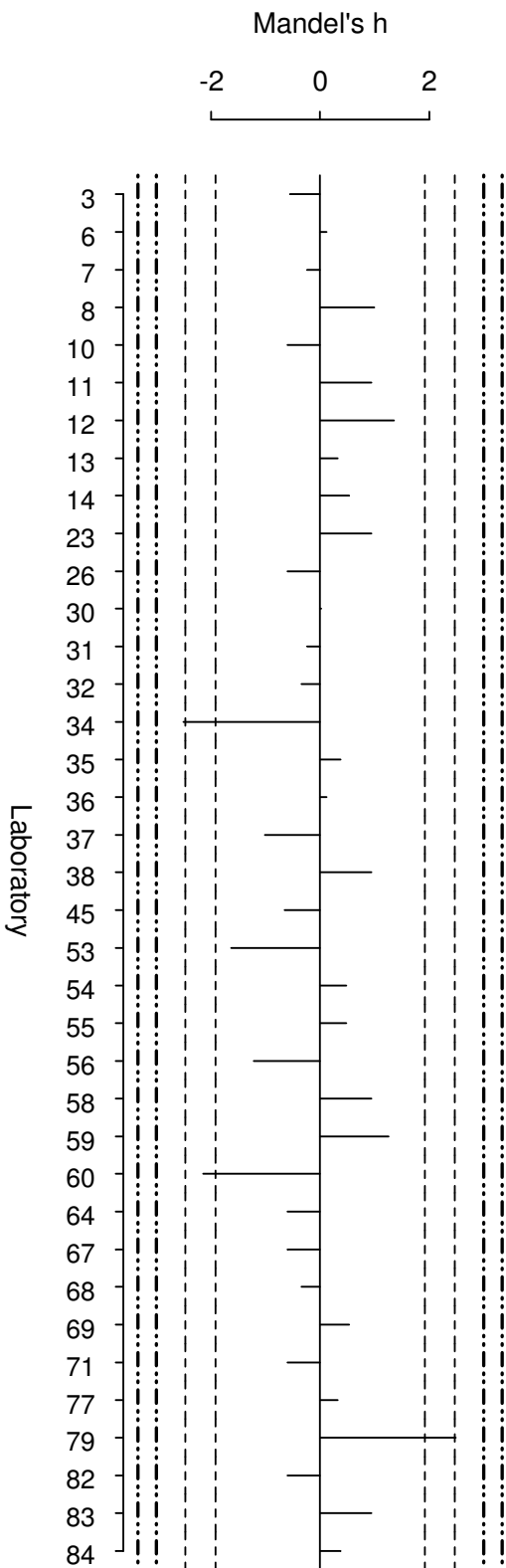
S: 10,21,63

E: k62;h71k;k42

Mandel's h and k plot of sample E

2 - pHCaCl2 - Sample E

Step:7; Nlab:37; Mgen:2.839; Fval:188.1; Pval:0; sRep:0.008165; sLab:0.06447; sRpr:0.06499; CV:2.289



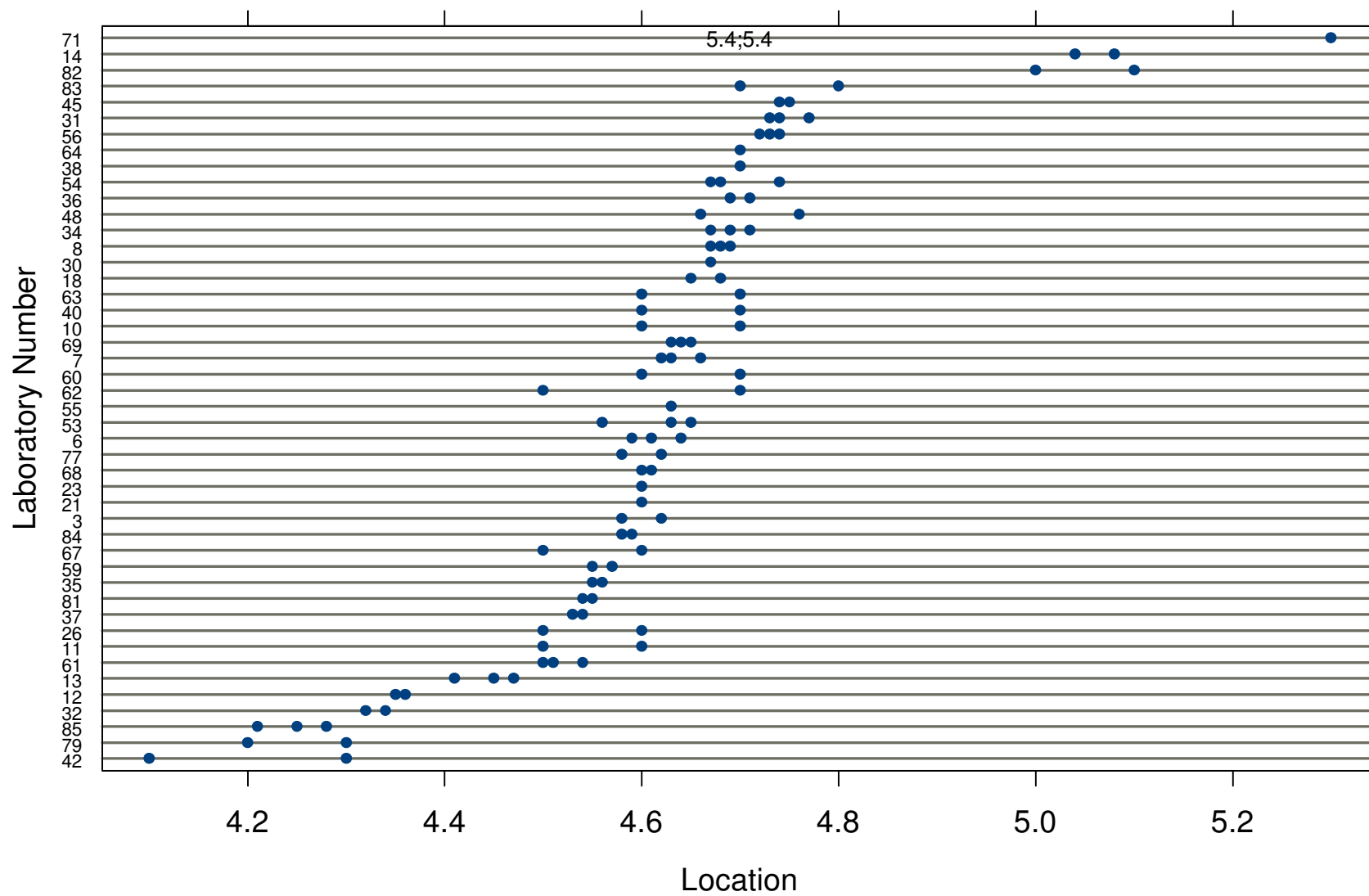
S: 32,34

E: h18;k62;k63;k21;k40;k61;k81;k42;h85;k48

pH(H₂O)

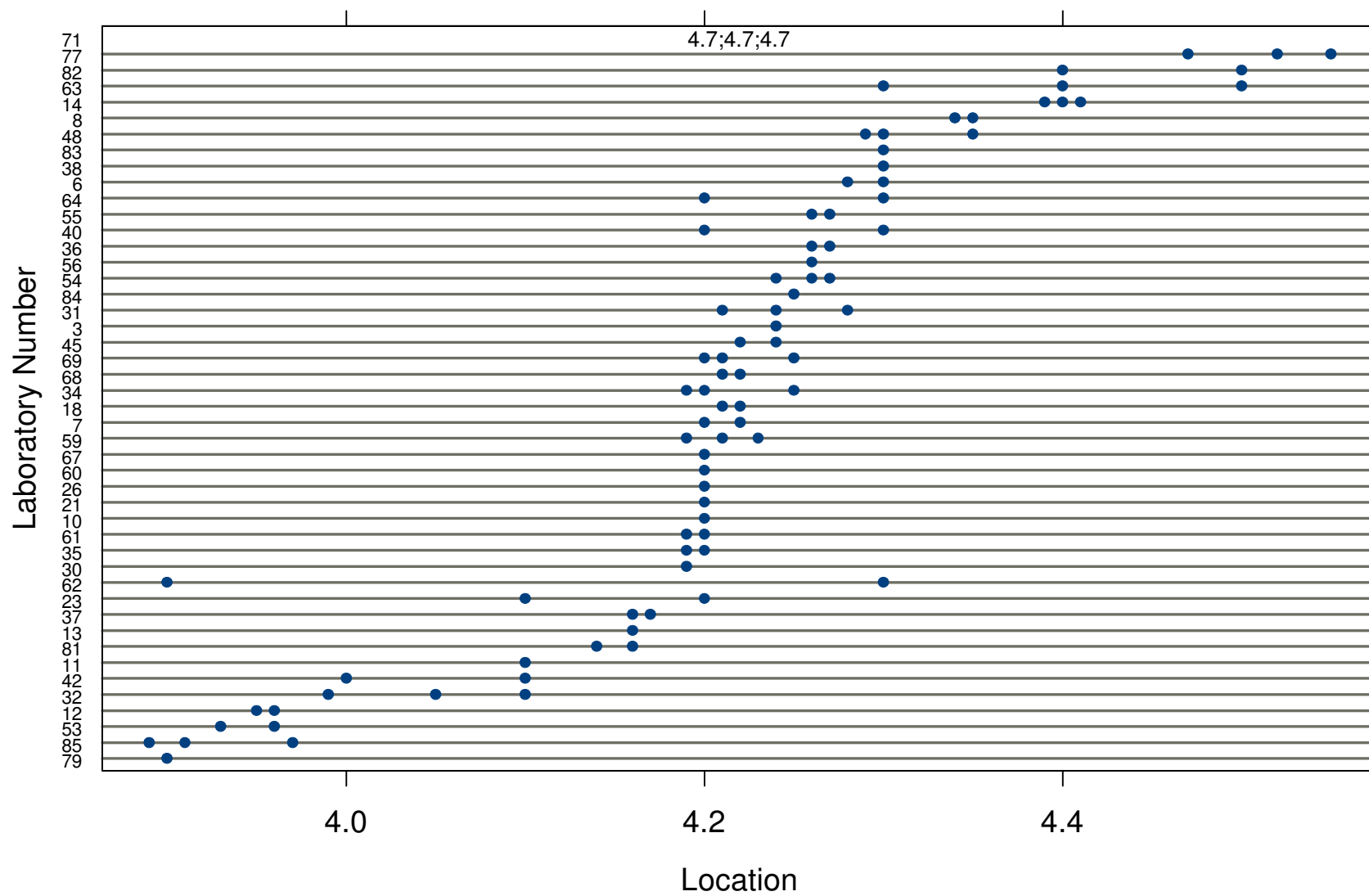
Dot plot sample A

2 - pHH2O - Sample A



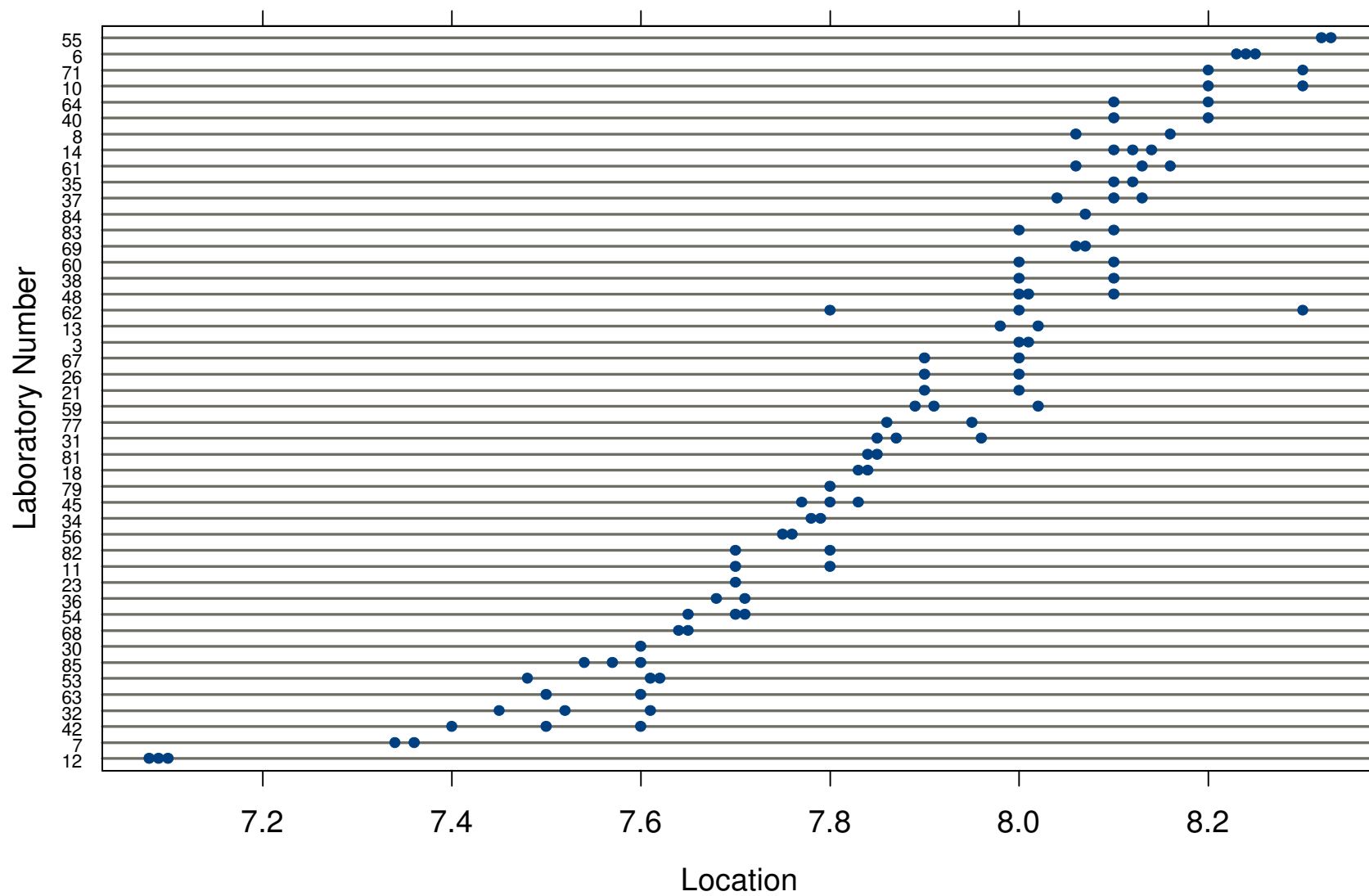
Dot plot sample B

2 - pHH2O - Sample B



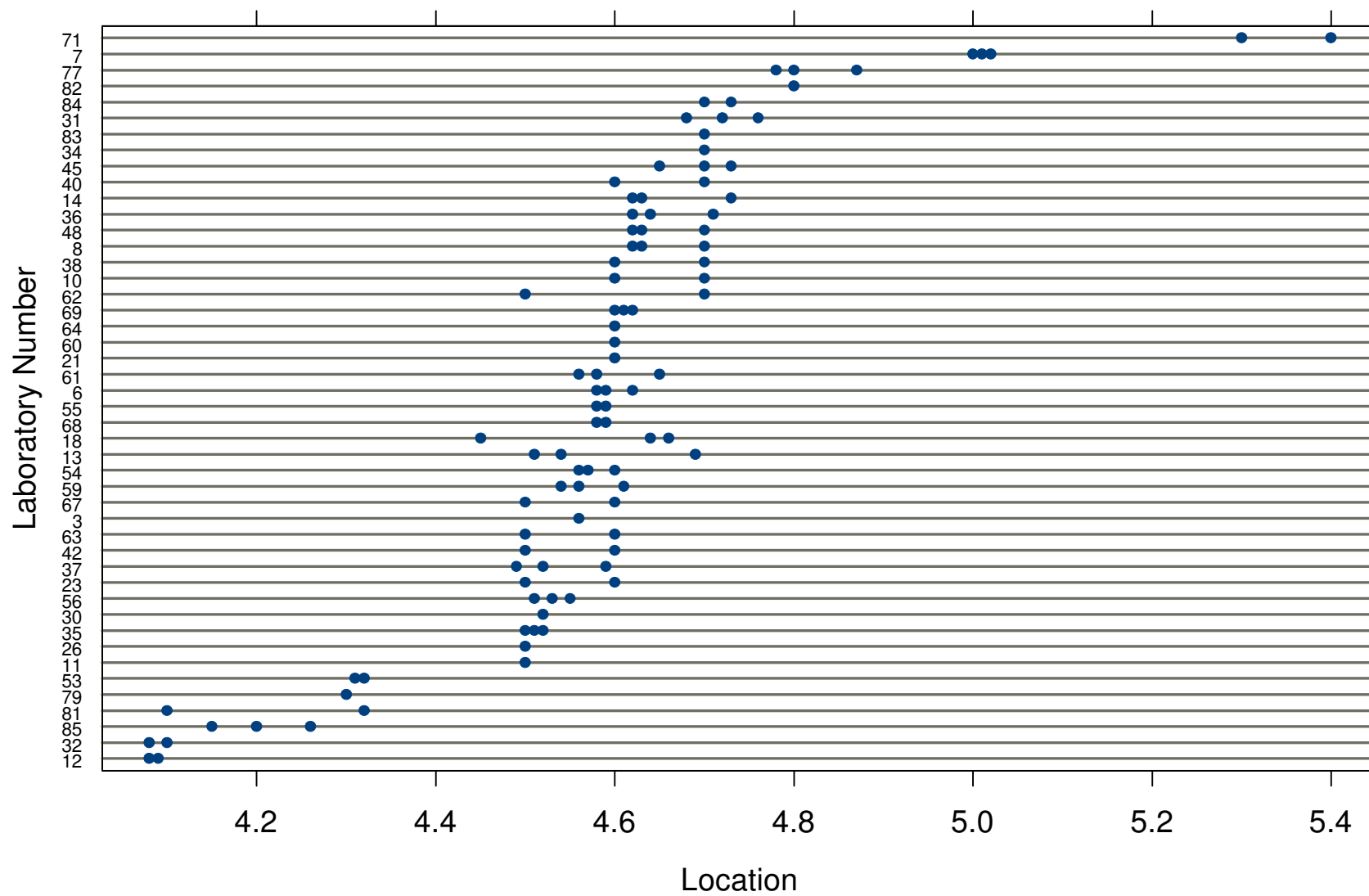
Dot plot sample C

2 - pH_{H2O} - Sample C



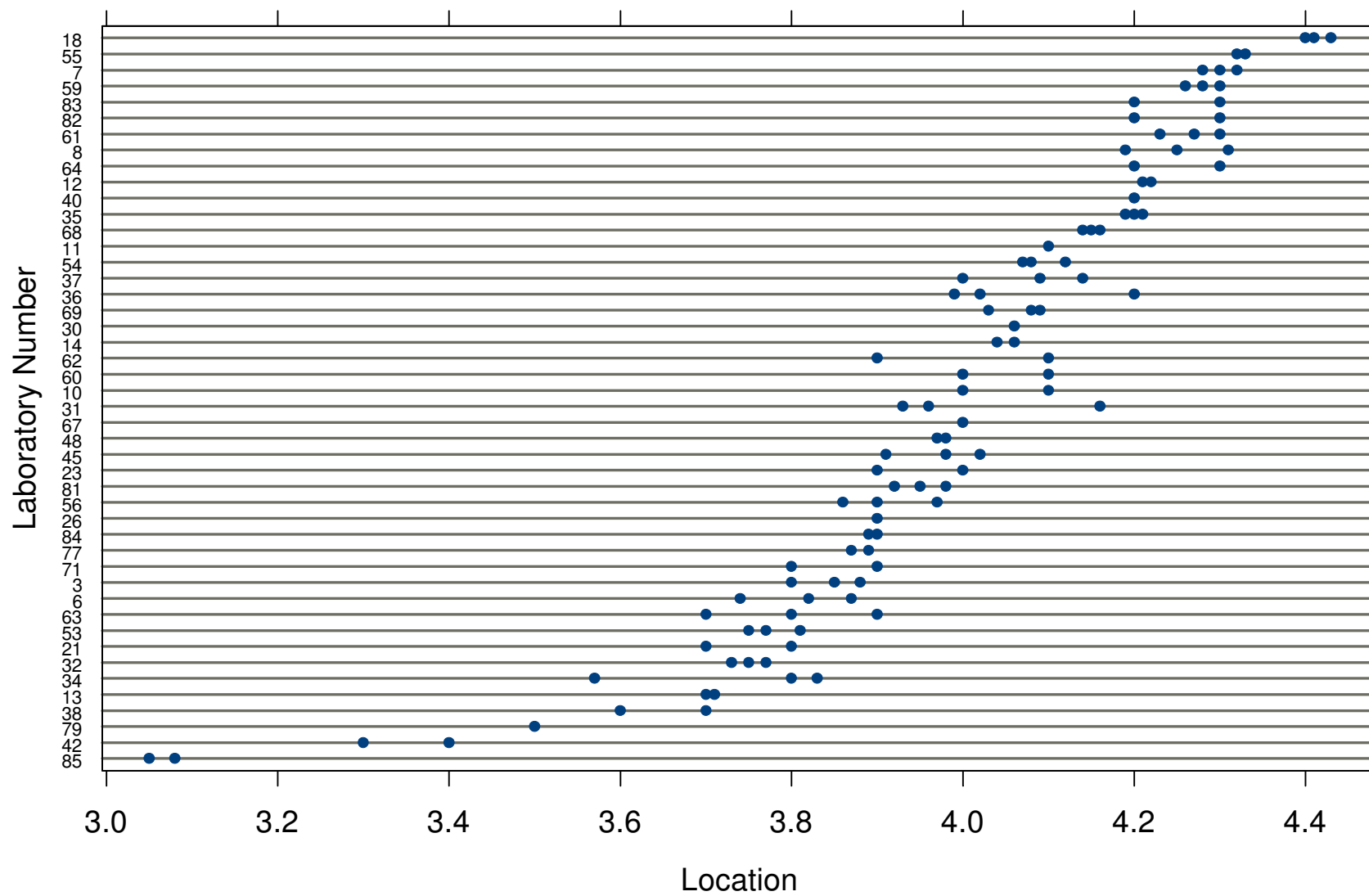
Dot plot sample D

2 - pH_{H2O} - Sample D

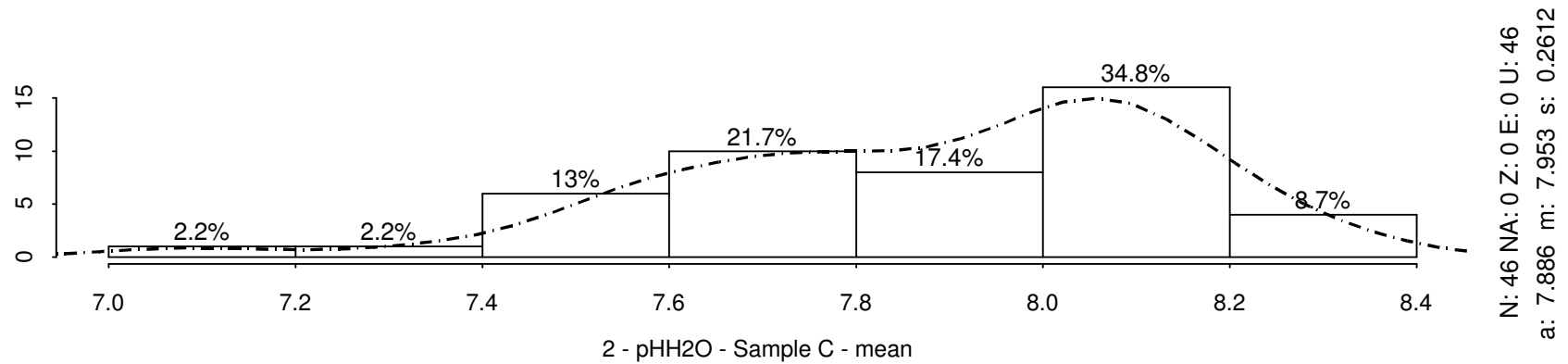
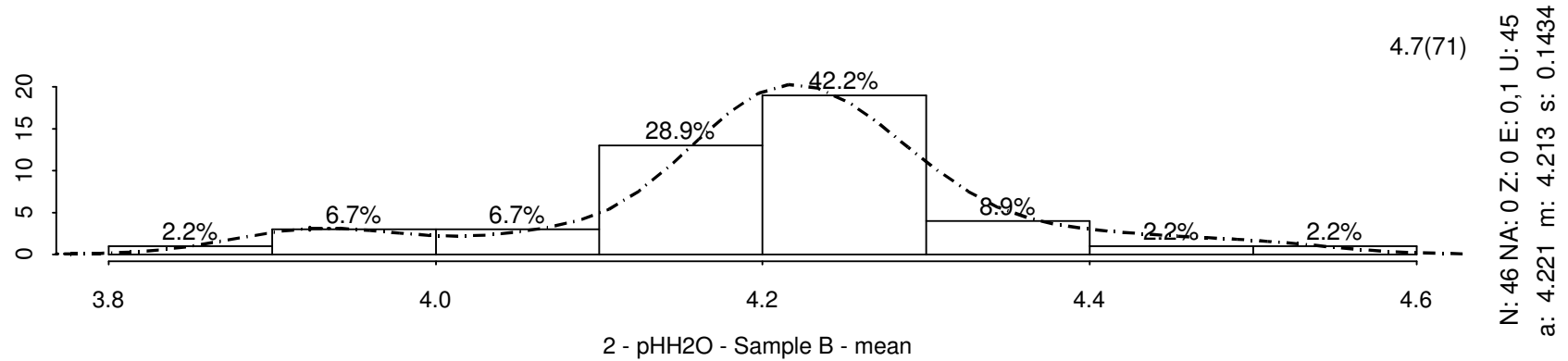
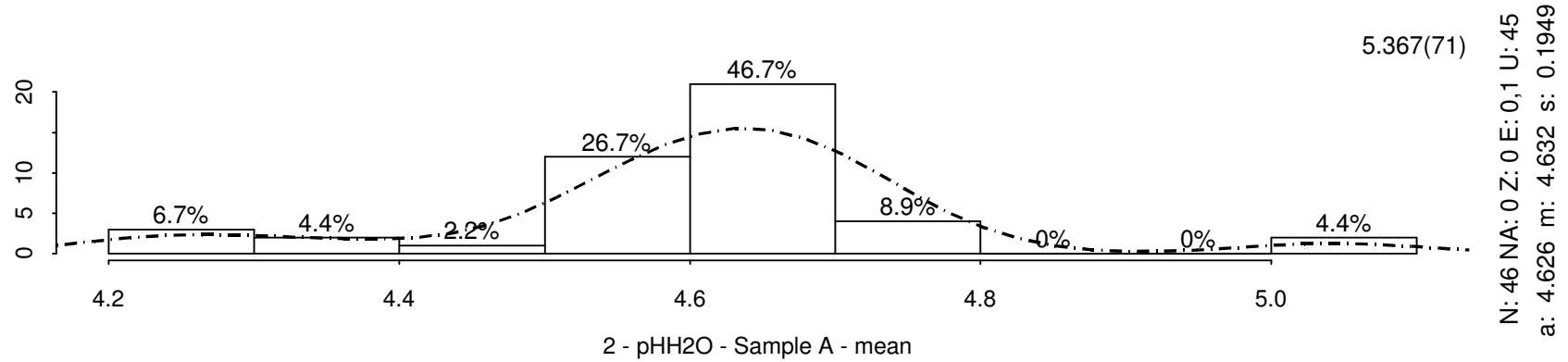


Dot plot sample E

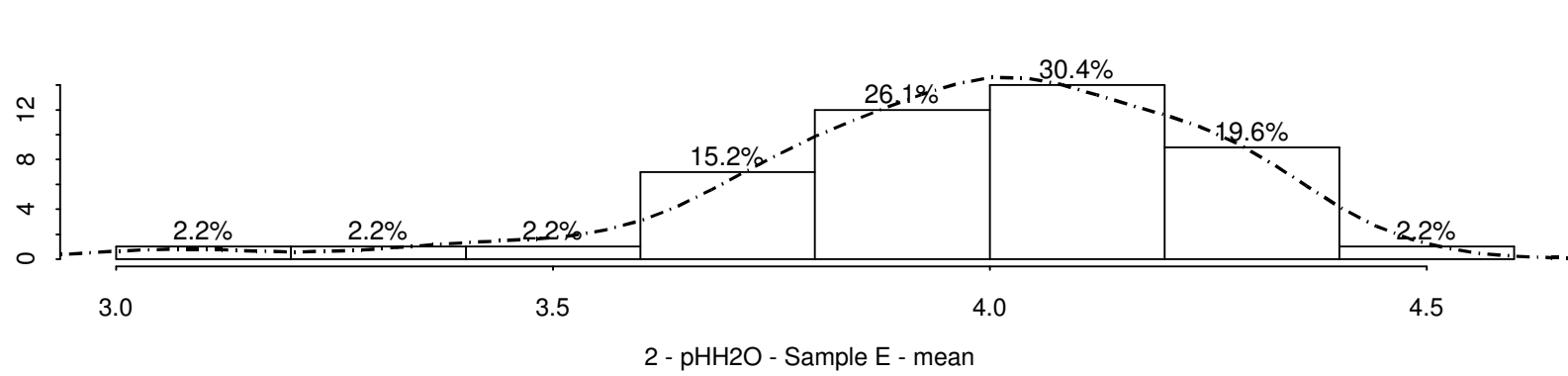
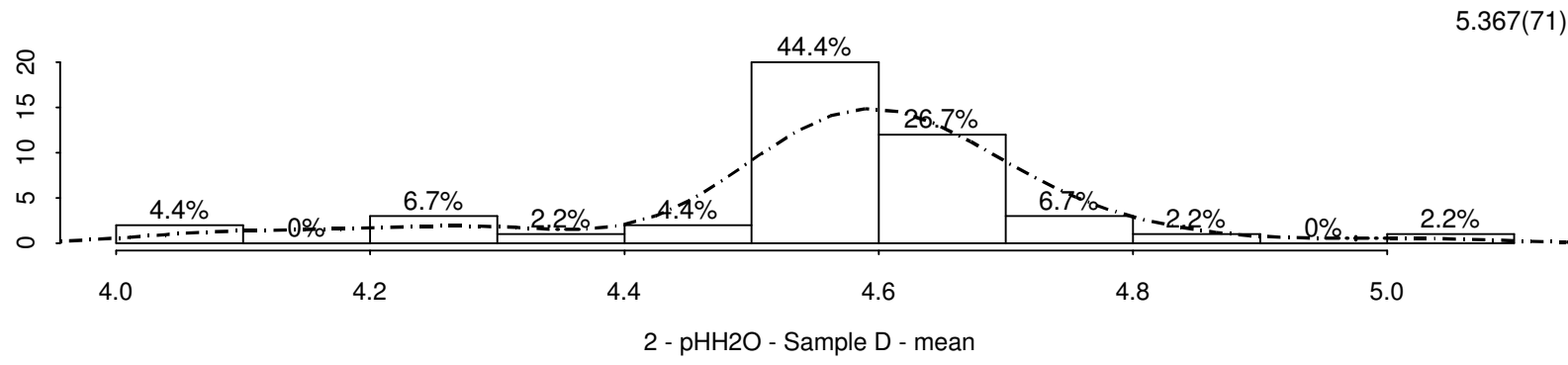
2 - pHH2O - Sample E



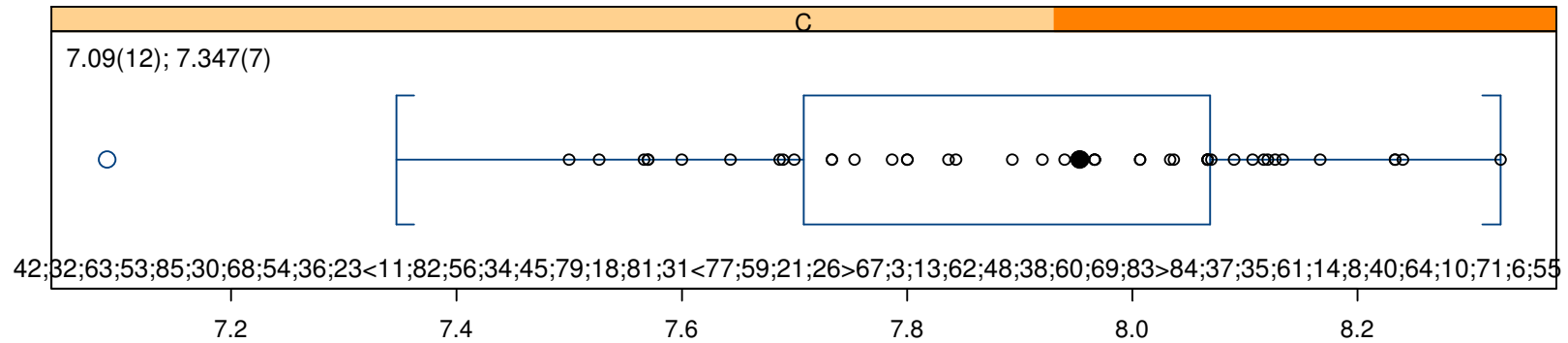
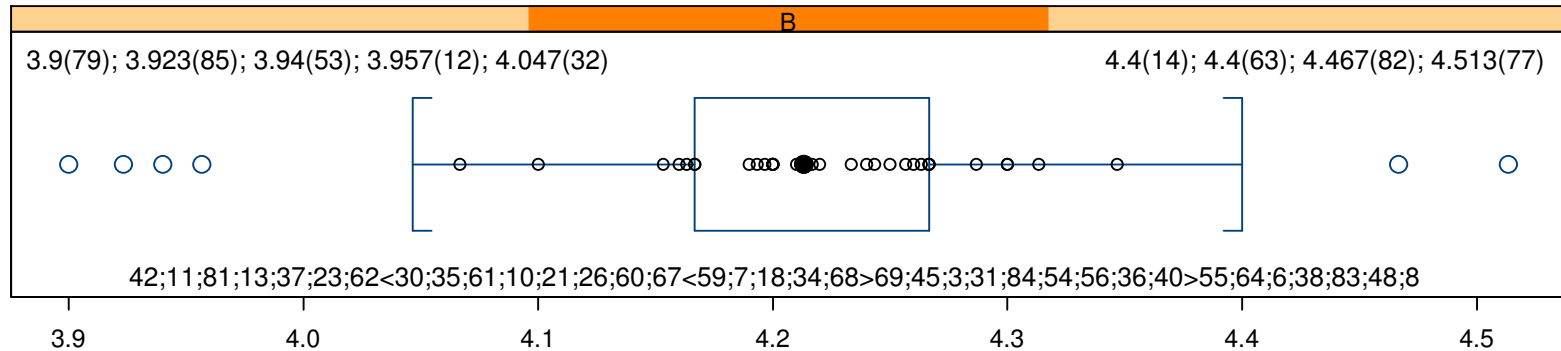
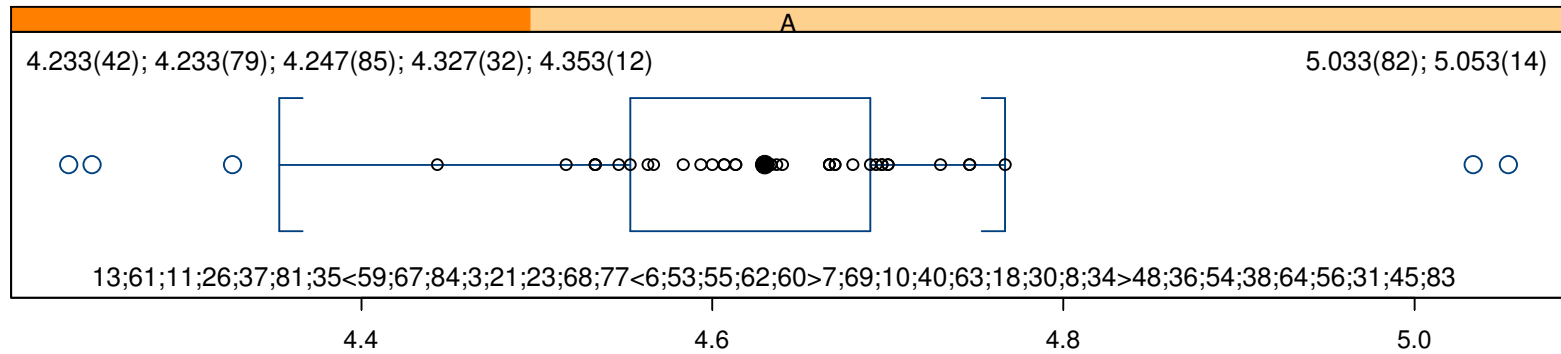
Histogram of the means of samples A, B and C



Histogram of the means of samples D and E

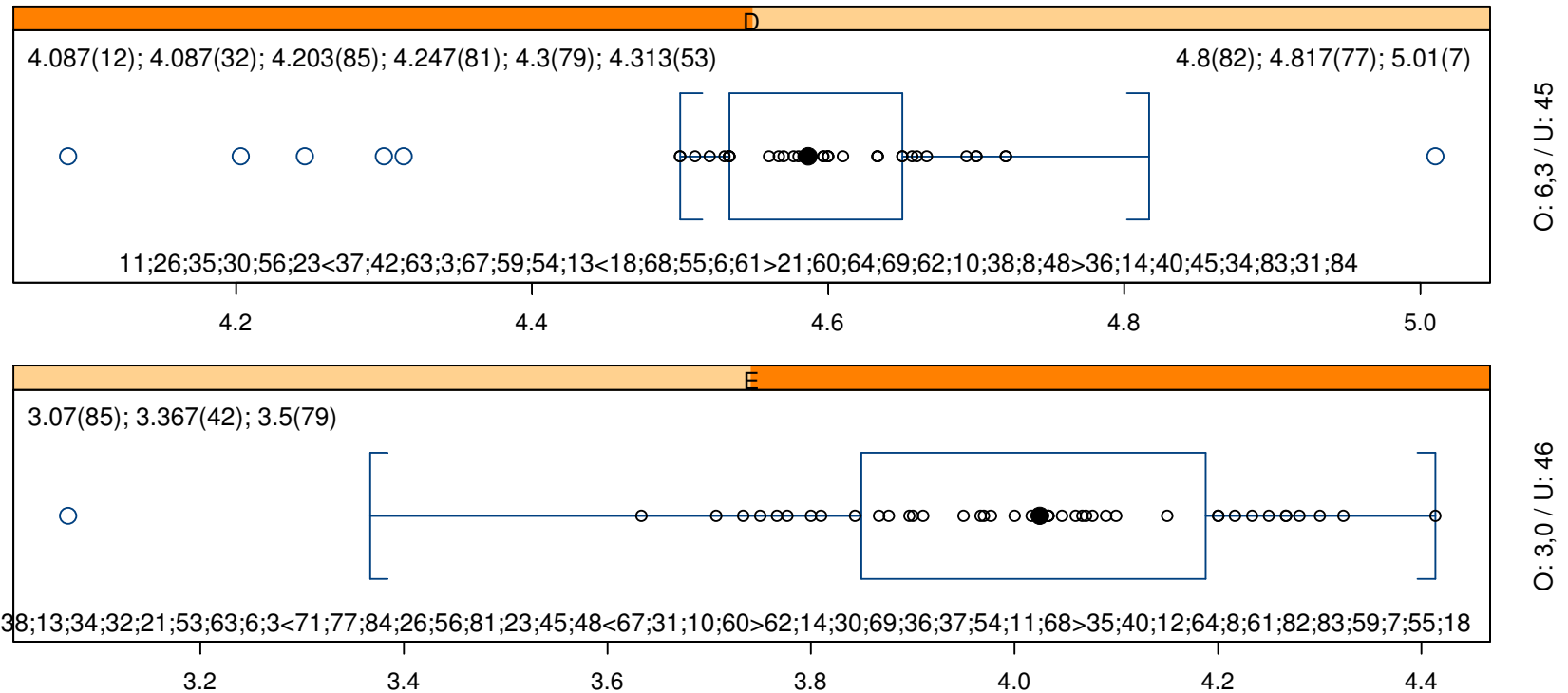


Box plot of the means of samples A, B and C



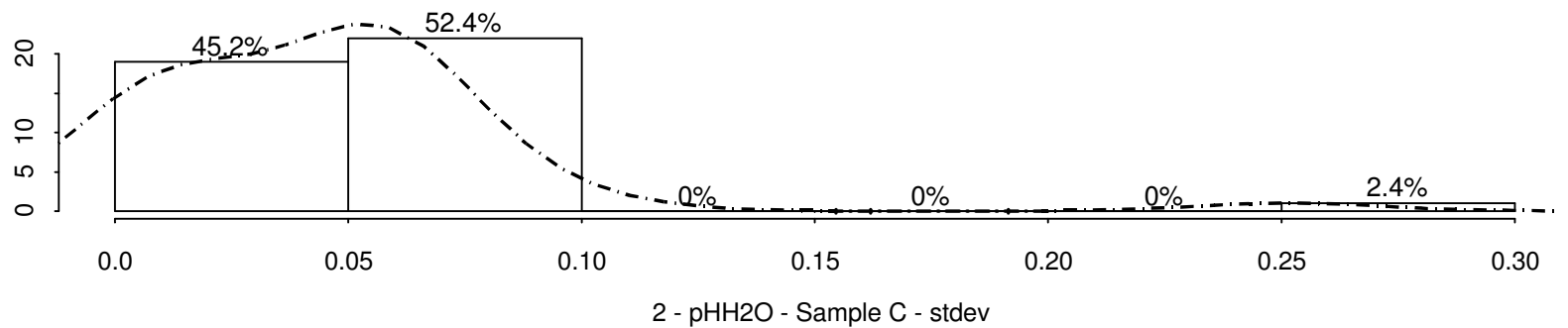
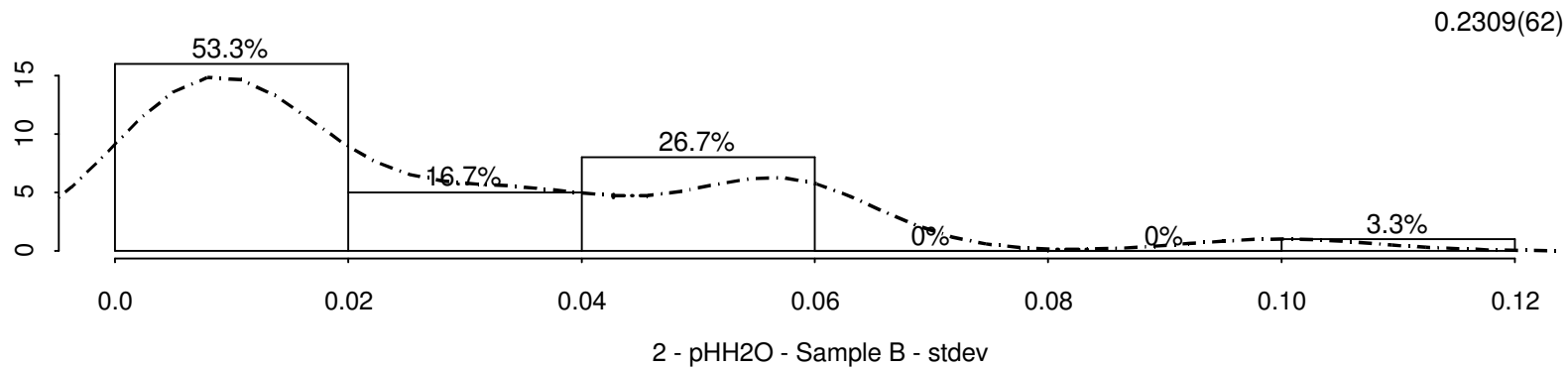
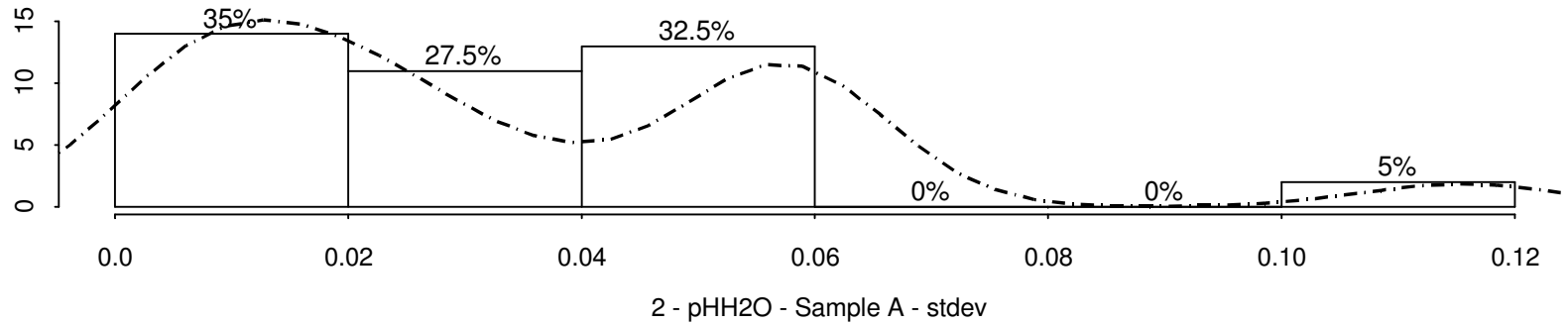
2 - pH_{H2O} - mean

Box plot of the means of samples D and E



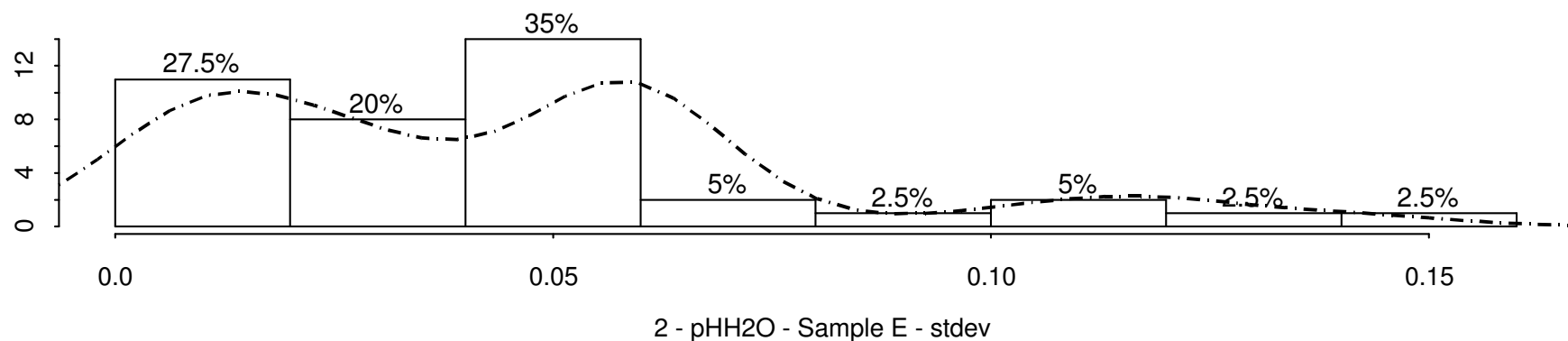
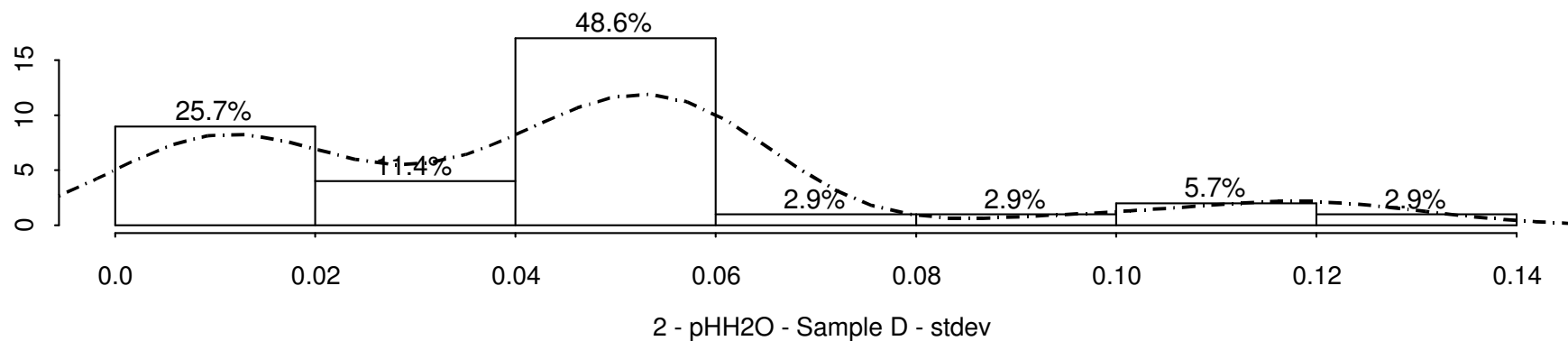
2 - pH_{H2O} - mean

Histogram of the standard deviations of samples A, B and C



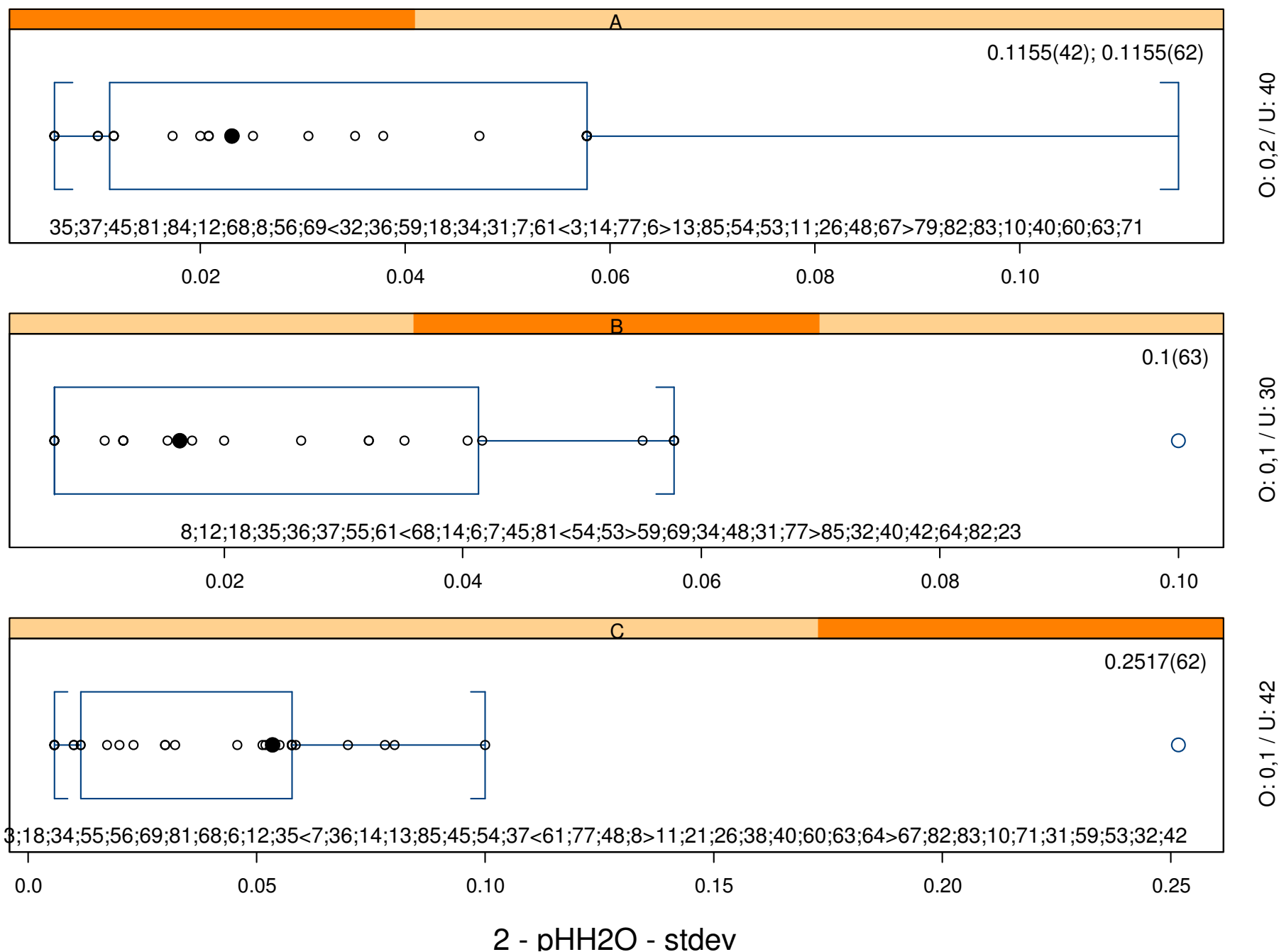
N: 40 NA: 0 Z: 0 E: 0 U: 40
 N: 31 NA: 0 Z: 0 E: 0,1 U: 30
 N: 42 NA: 0 Z: 0 E: 0 U: 42
 a: 0.04507 m: 0.05352 s: 0.04150
 0.03435 m: 0.02309 s: 0.02796

Histogram of the standard deviations of samples D and E

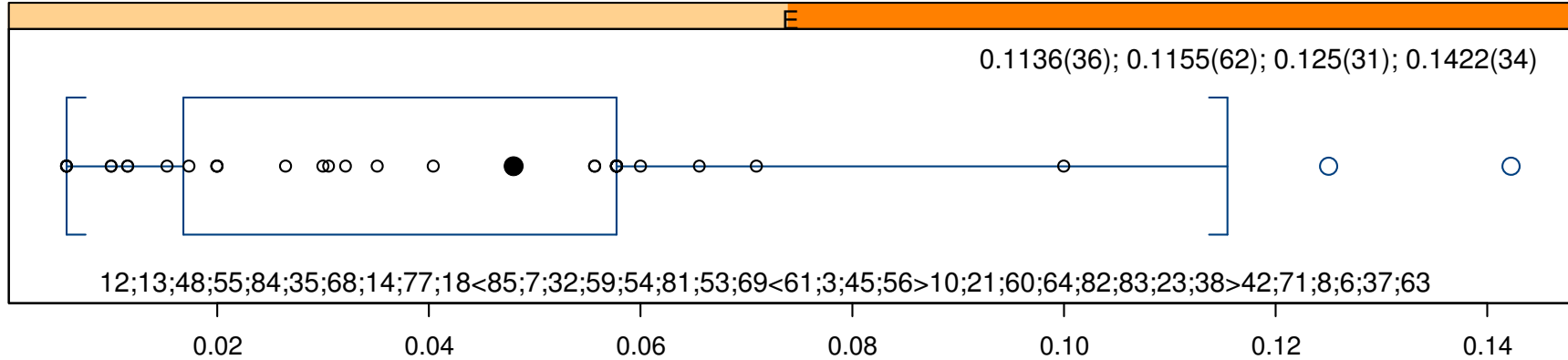
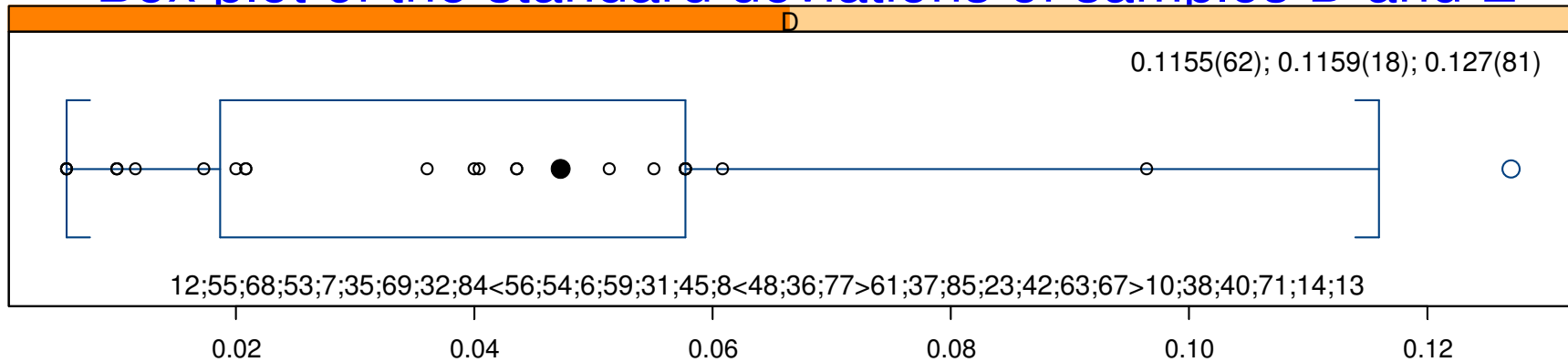


N: 35 NA: 0 Z: 0 E: 0 U: 35
a: 0.04602 m: 0.04805 s: 0.03532
N: 40 NA: 0 Z: 0 E: 0 U: 40
a: 0.04494 m: 0.04726 s: 0.03195

Box plot of the standard deviations of samples A, B and C



Box plot of the standard deviations of samples D and E

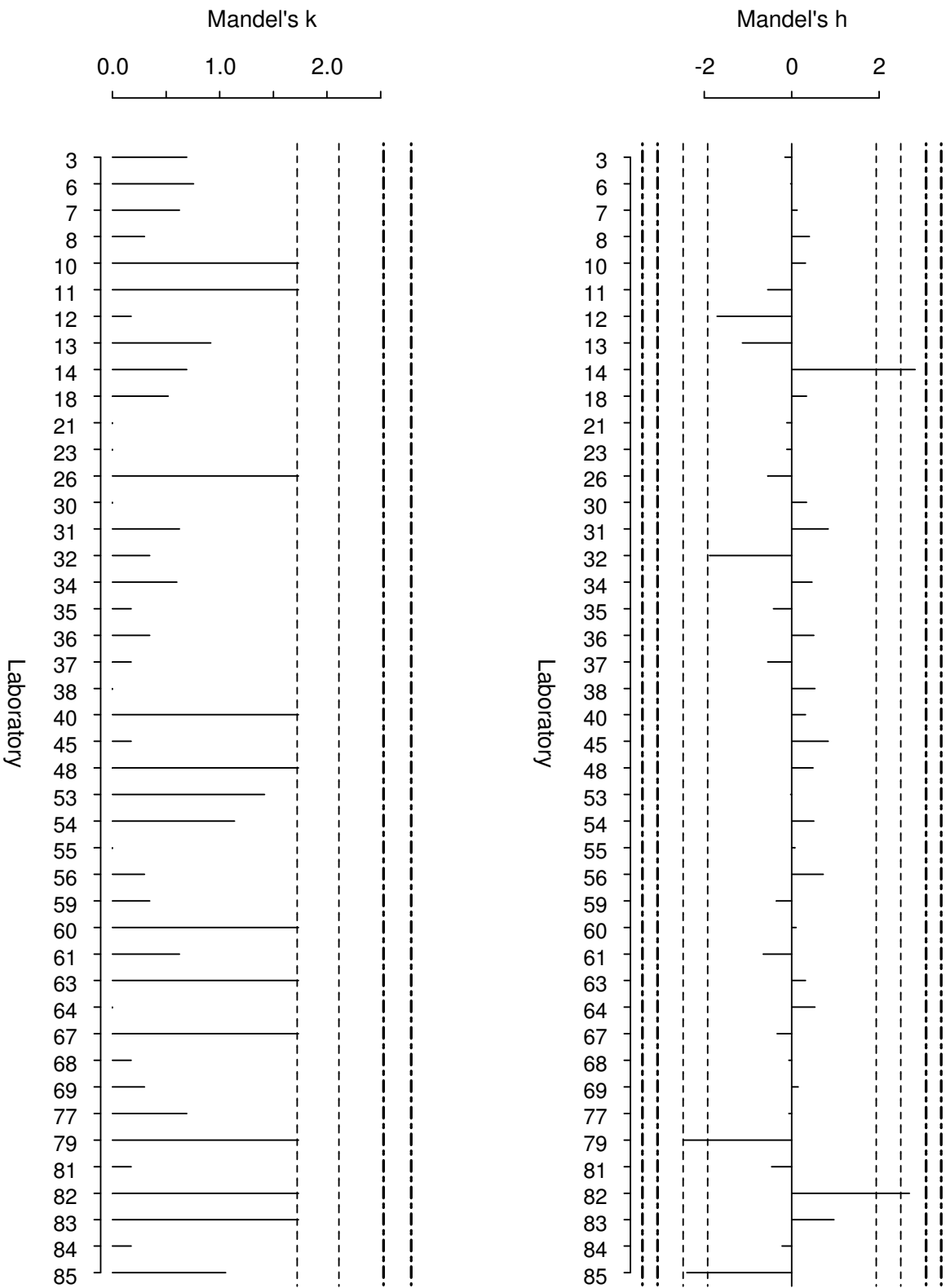


2 - pHH2O - stdev

Mandel's h and k plot of sample A

2 - pH_{H2O} - Sample A

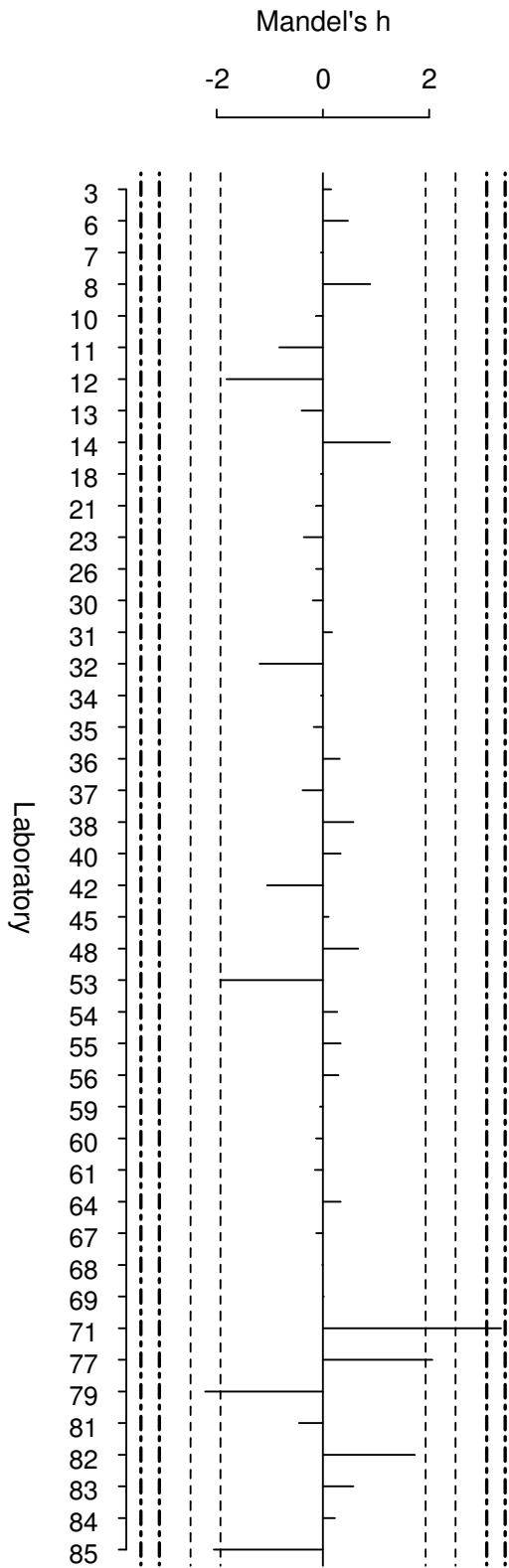
Step:2; Nlab:43; Mgen:4.618; Fval:64.74; Pval:0; sRep:0.03329; sLab:0.1535; sRpr:0.157; CV:3.4



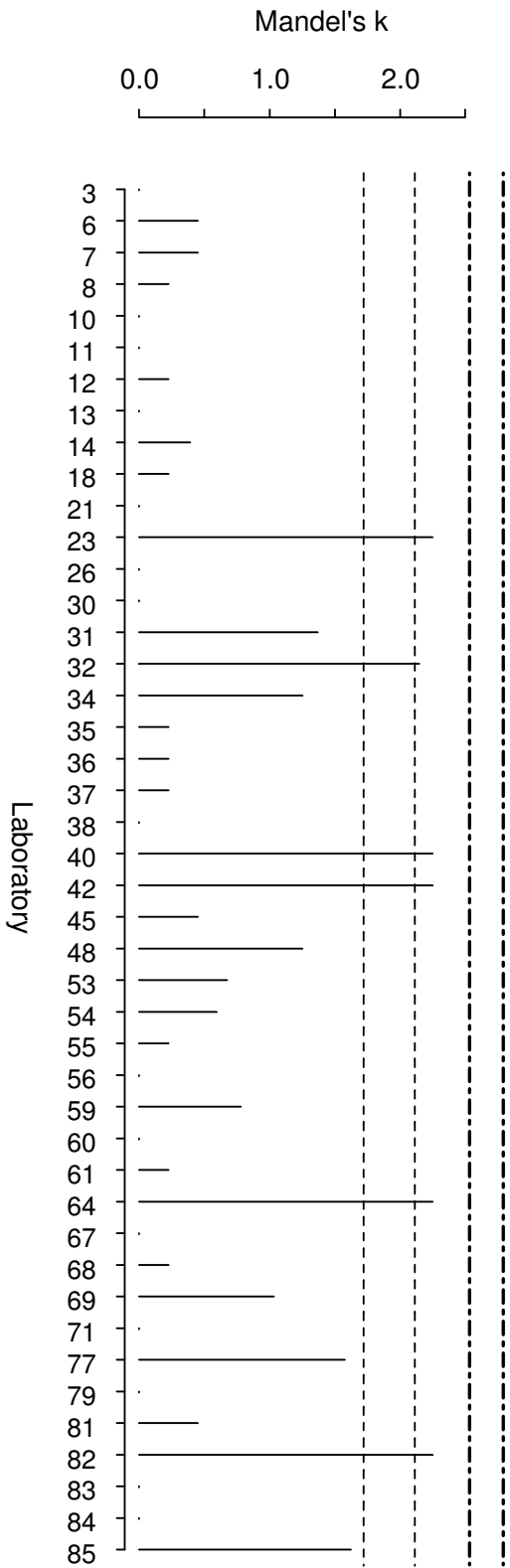
Mandel's h and k plot of sample B

2 - pH2O - Sample B

Step:3; Nlab:44; Mgen:4.219; Fval:94.38; Pval:0; sRep:0.02564; sLab:0.1431; sRpr:0.1453; CV:3.445



S: 71

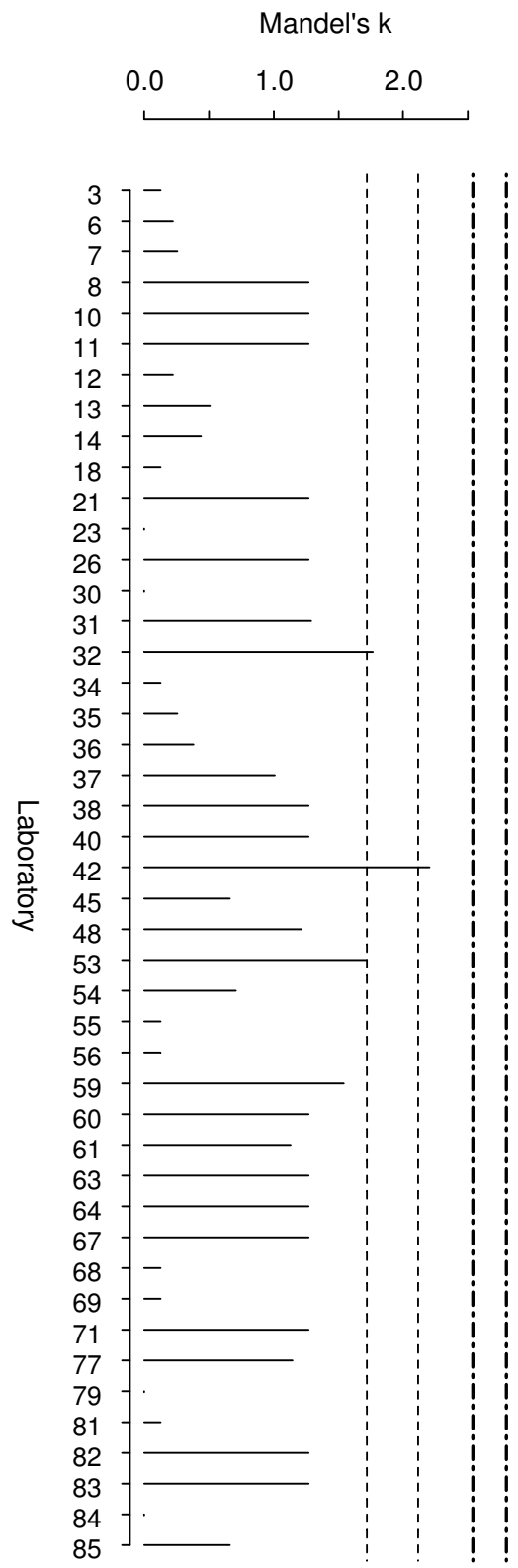
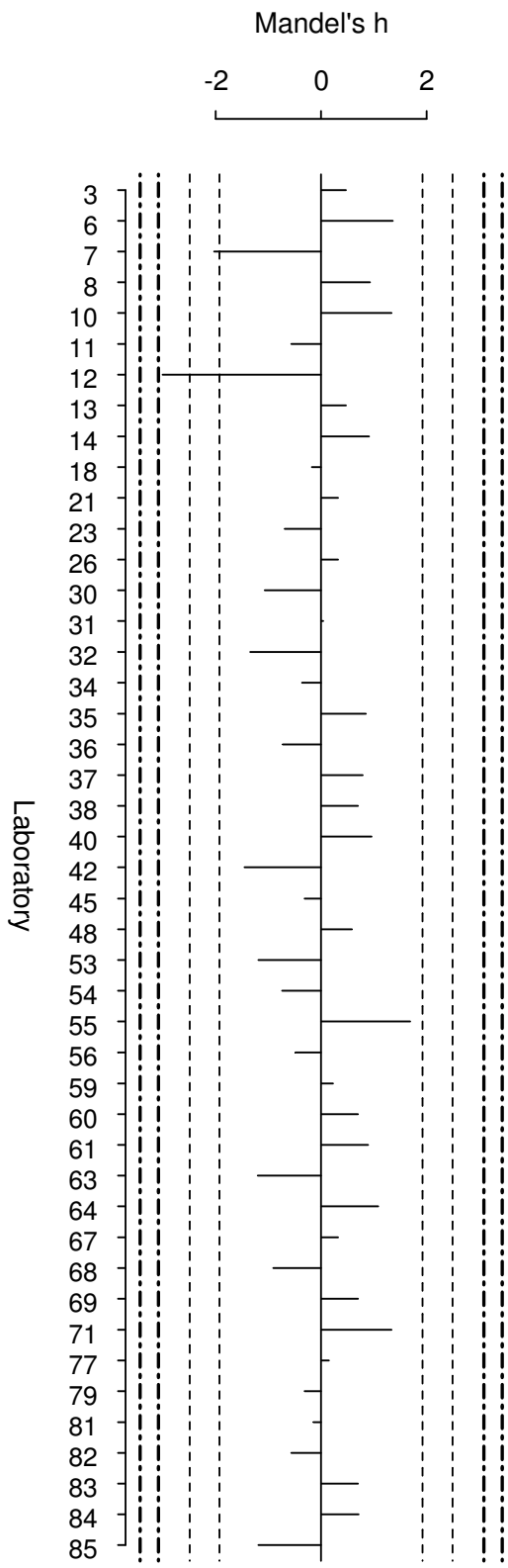


E: k62;k63

Mandel's h and k plot of sample C

2 - pH_{H2O} - Sample C

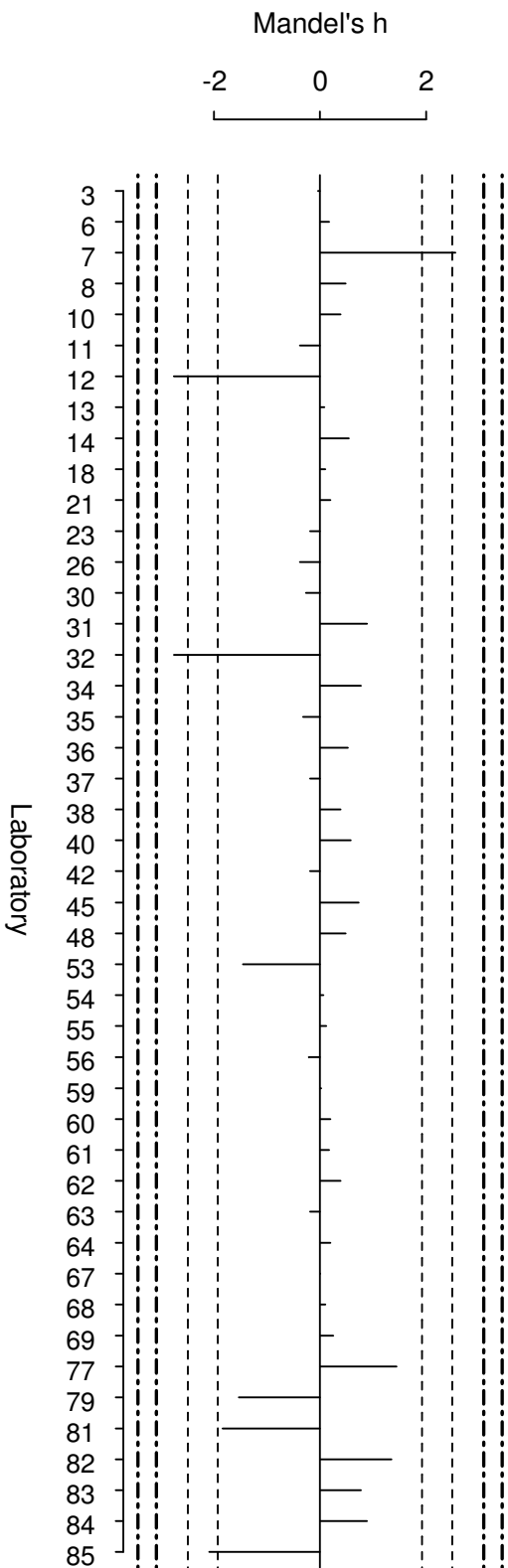
Step:2; Nlab:45; Mgen:7.882; Fval:100.7; Pval:0; sRep:0.04541; sLab:0.2618; sRpr:0.2658; CV:3.372



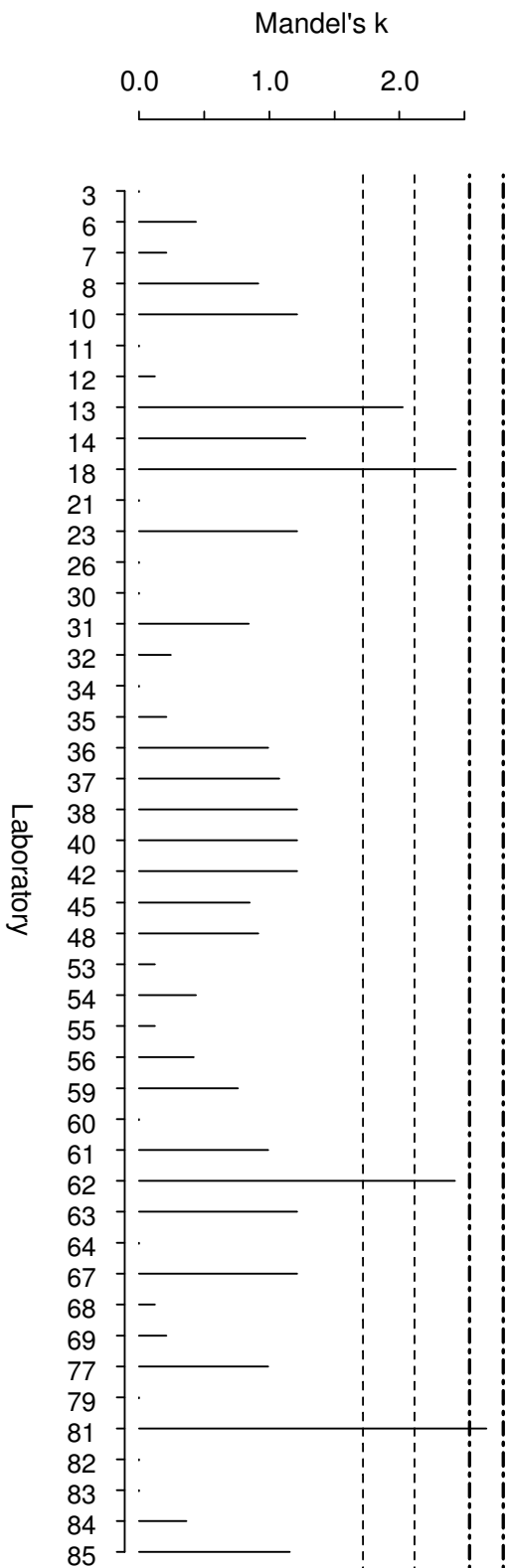
Mandel's h and k plot of sample D

2 - pH_{H2O} - Sample D

Step:2; Nlab:45; Mgen:4.566; Fval:39.83; Pval:0; sRep:0.04763; sLab:0.1713; sRpr:0.1778; CV:3.895



E: h71

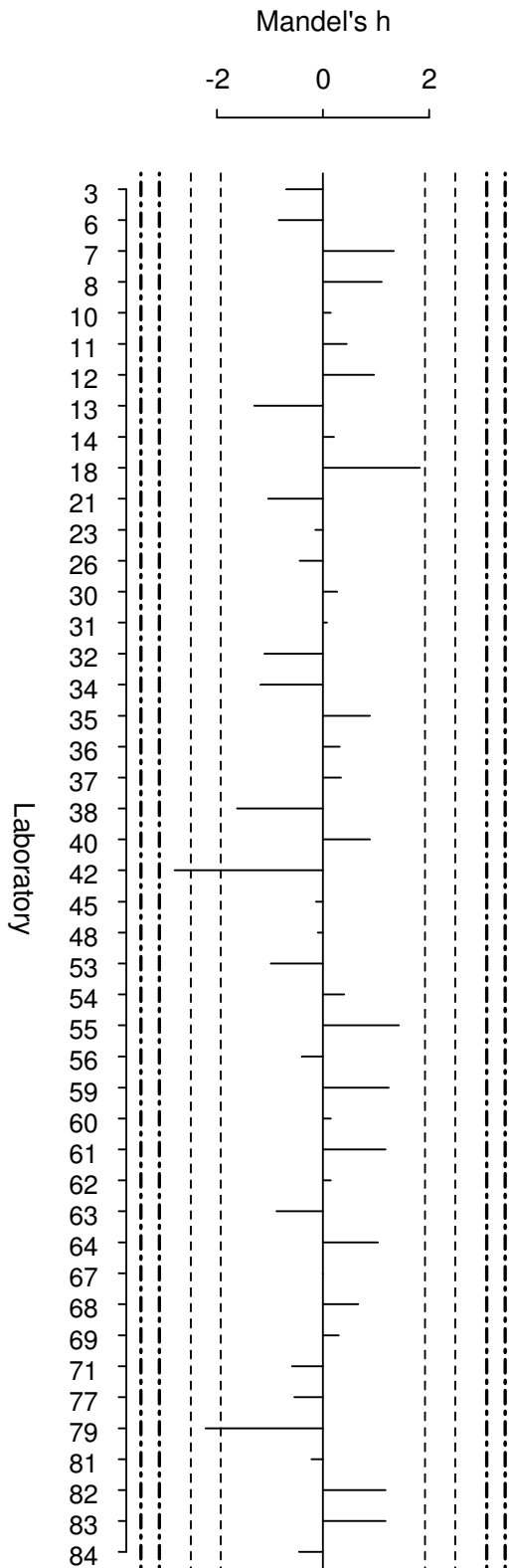


S: 81

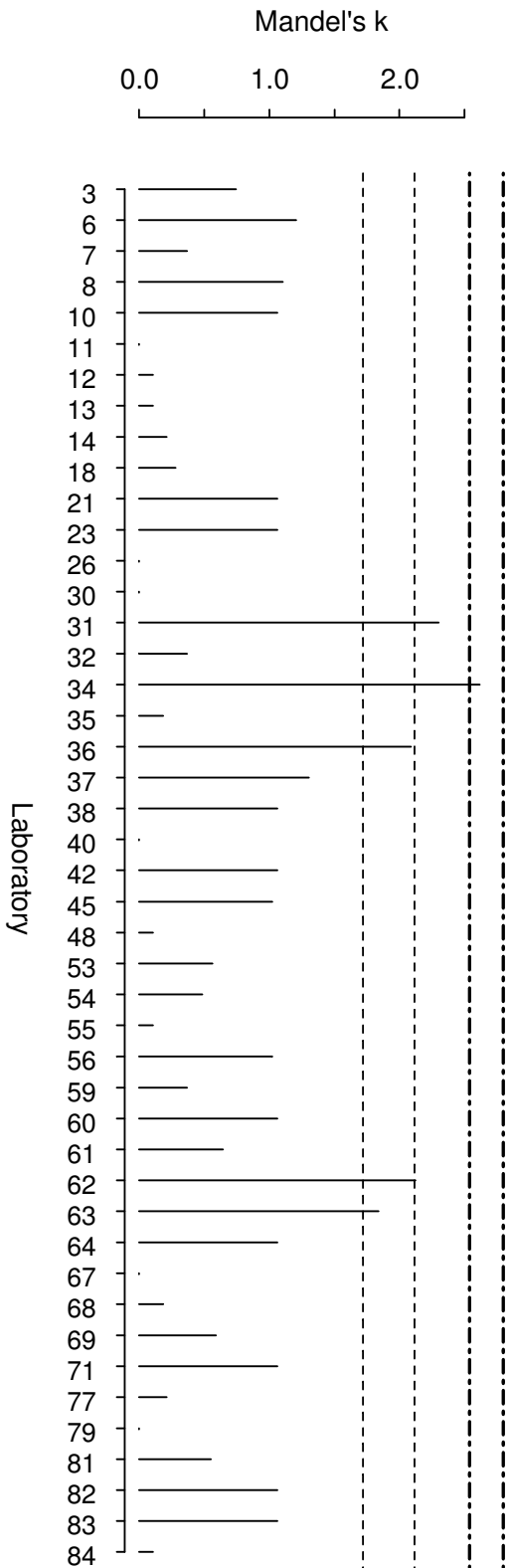
Mandel's h and k plot of sample E

2 - pH_{H2O} - Sample E

Step:2; Nlab:45; Mgen:4; Fval:51.72; Pval:0; sRep:0.05438; sLab:0.2236; sRpr:0.2301; CV:5.753



E: h85



S: 34