



# Annex 3: Statistical data analysis

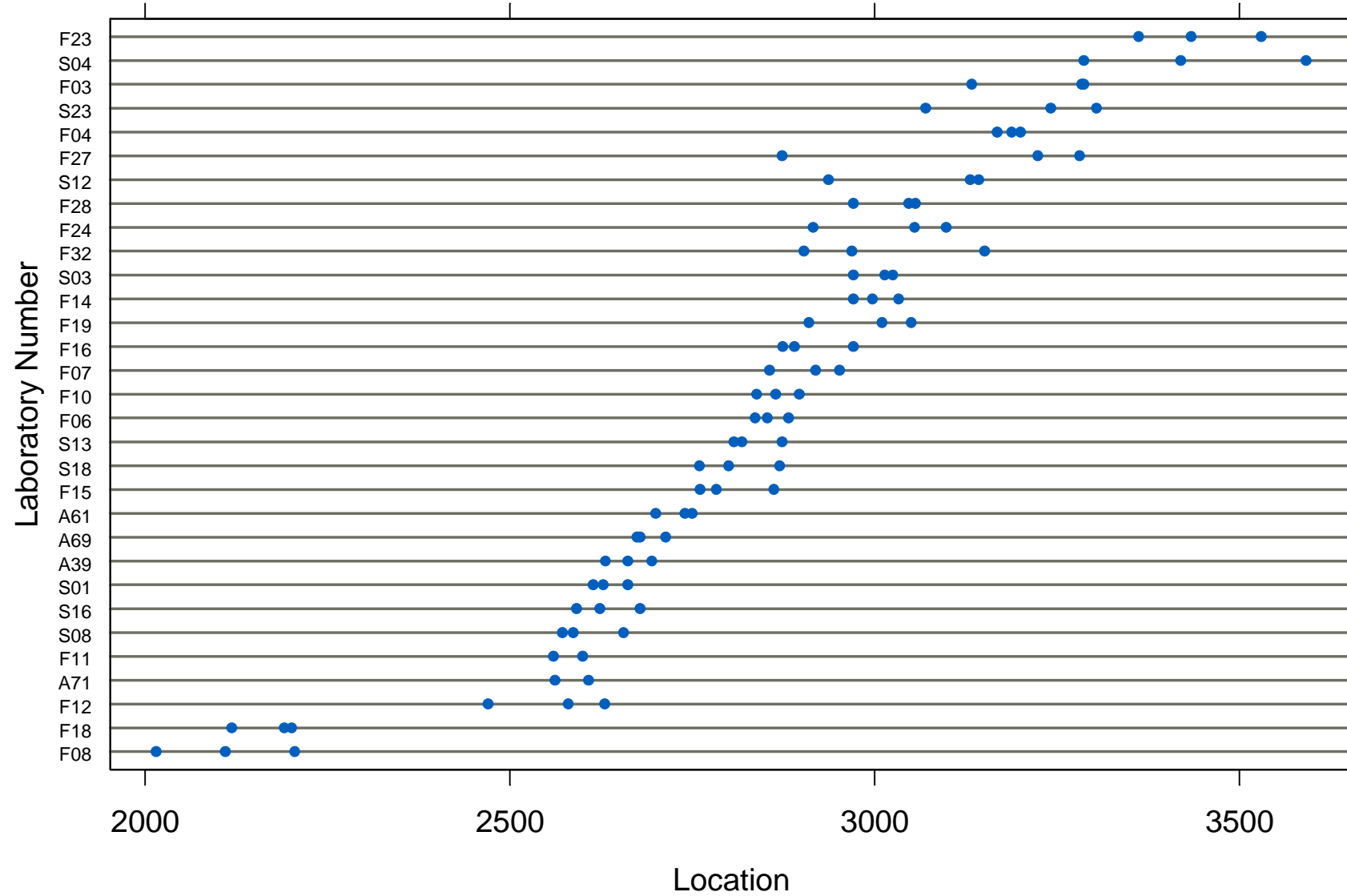
Group 9: Acid oxalate extractable Fe and  
Al (SA13)

*Reactive Al and reactive Fe*

# Reactive Aluminium

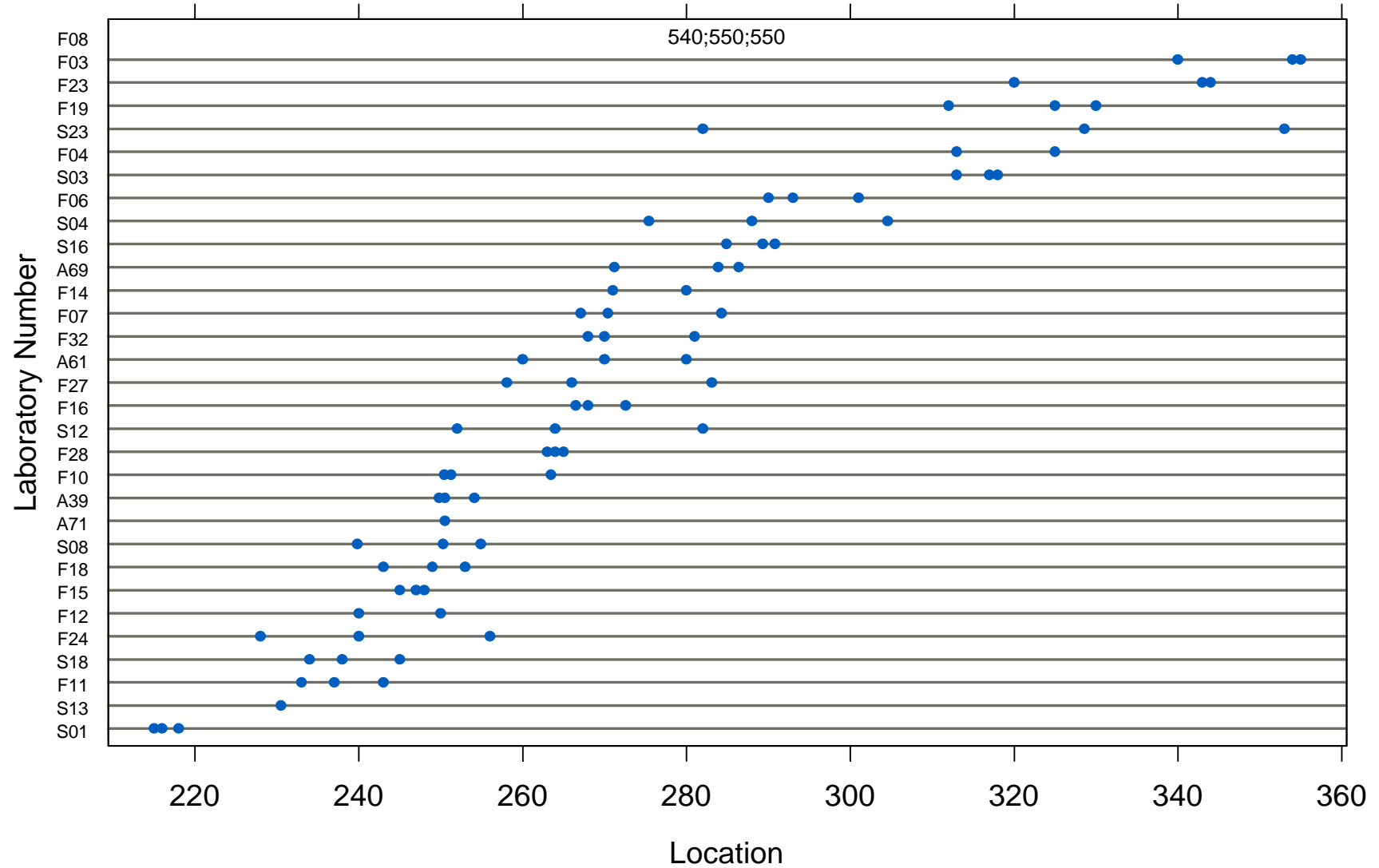
# Dot plot sample A

9 - Reactive Al - Sample A



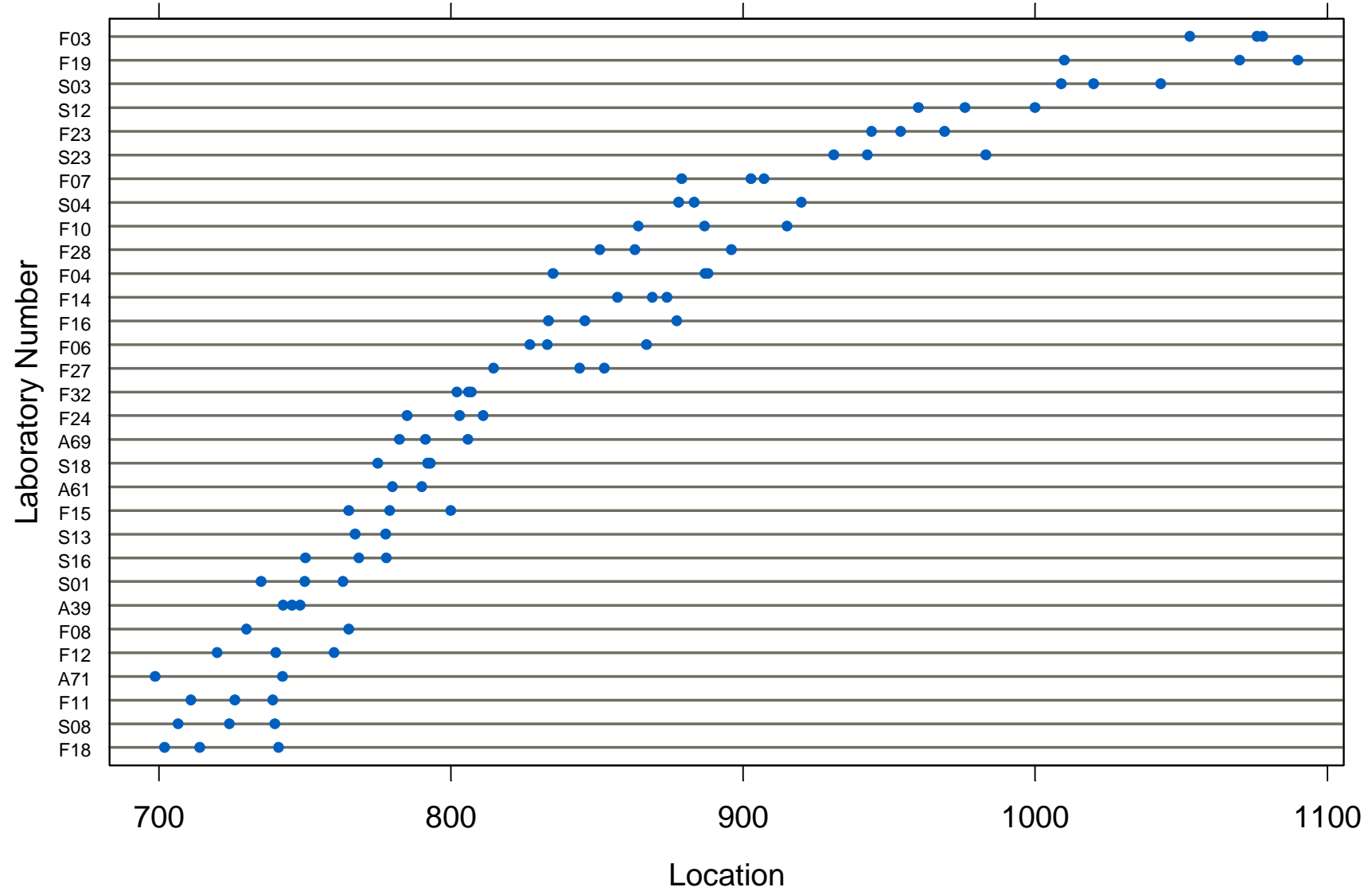
# Dot plot sample B

9 - Reactive Al - Sample B



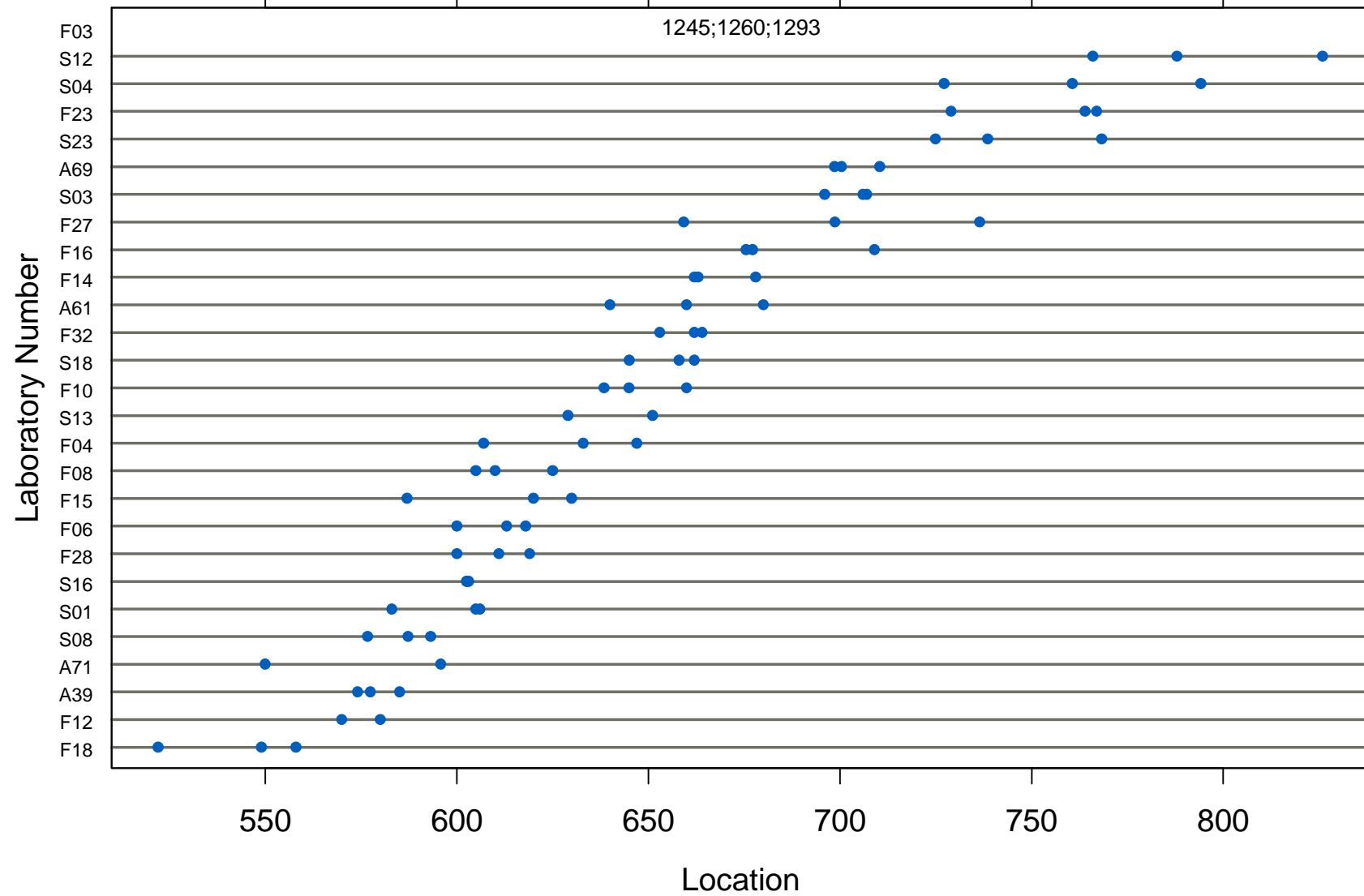
# Dot plot sample C

9 - Reactive Al - Sample C



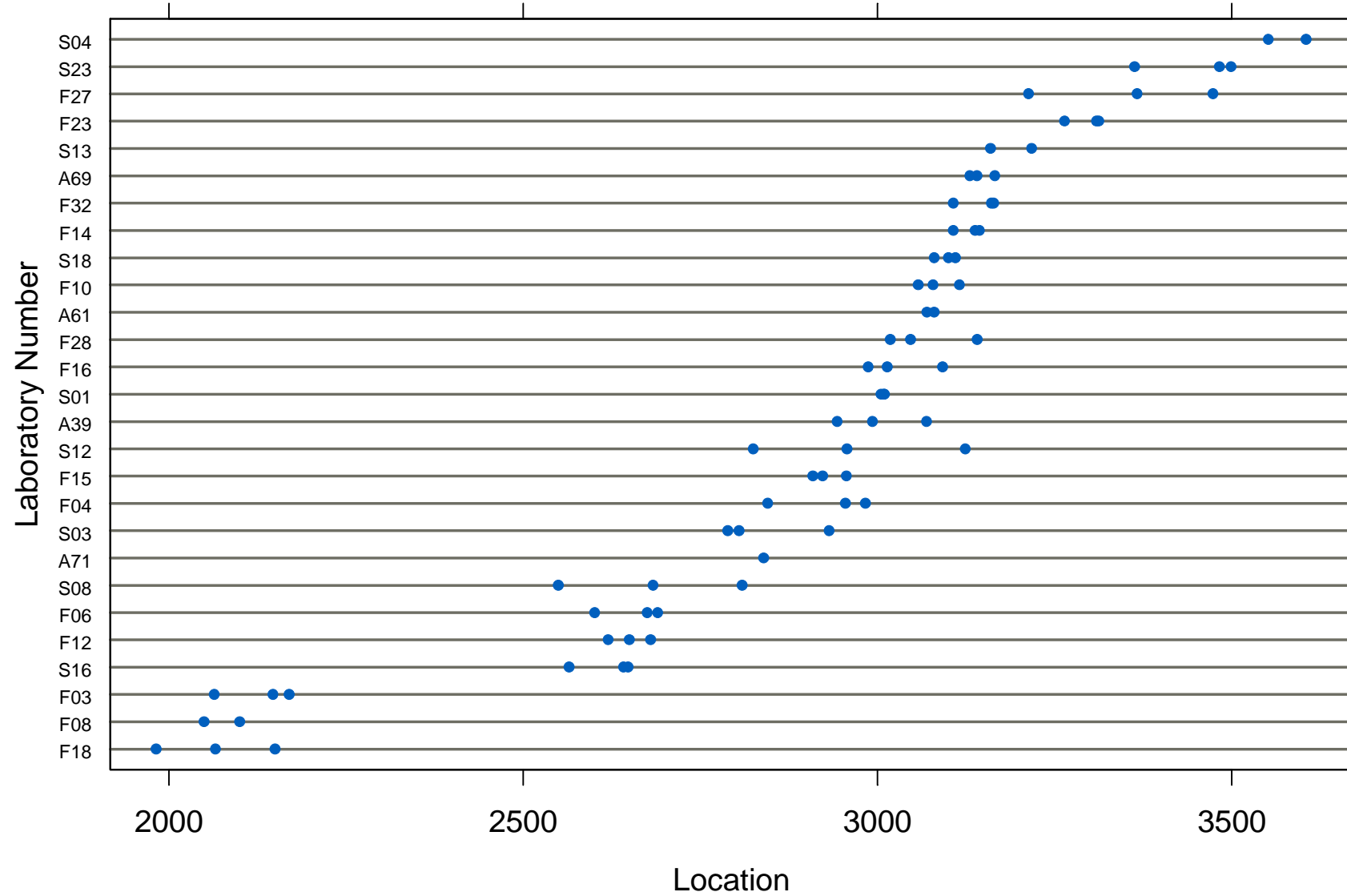
# Dot plot sample D

9 - Reactive Al - Sample D

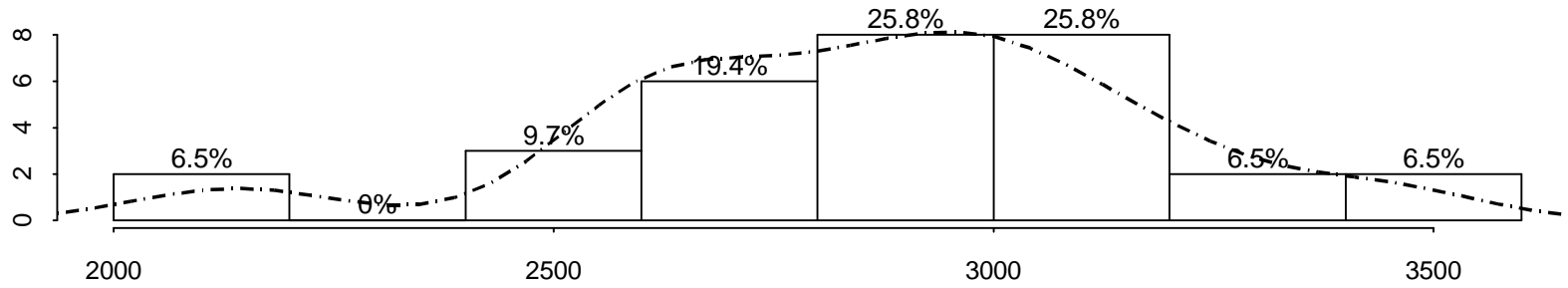


# Dot plot sample E

9 - Reactive Al - Sample E

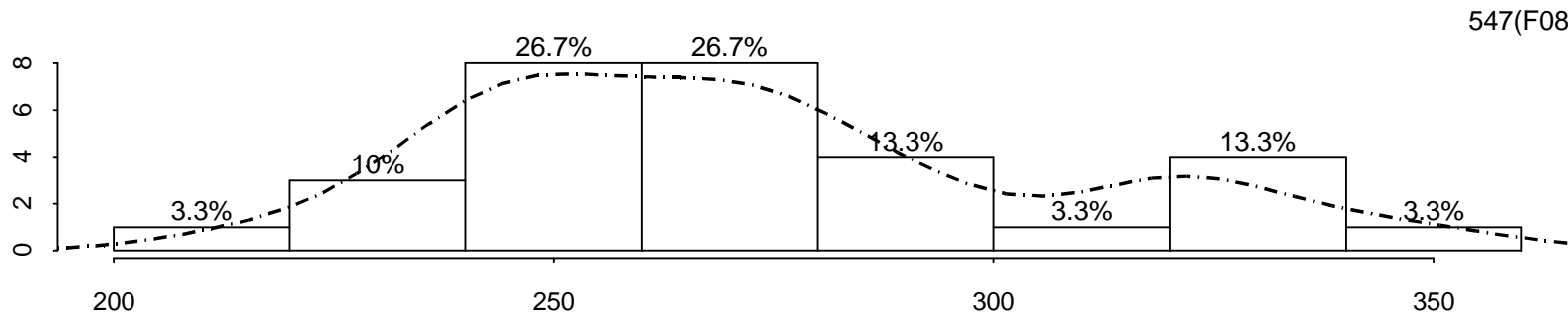


# Histogram of the means of samples A, B and C



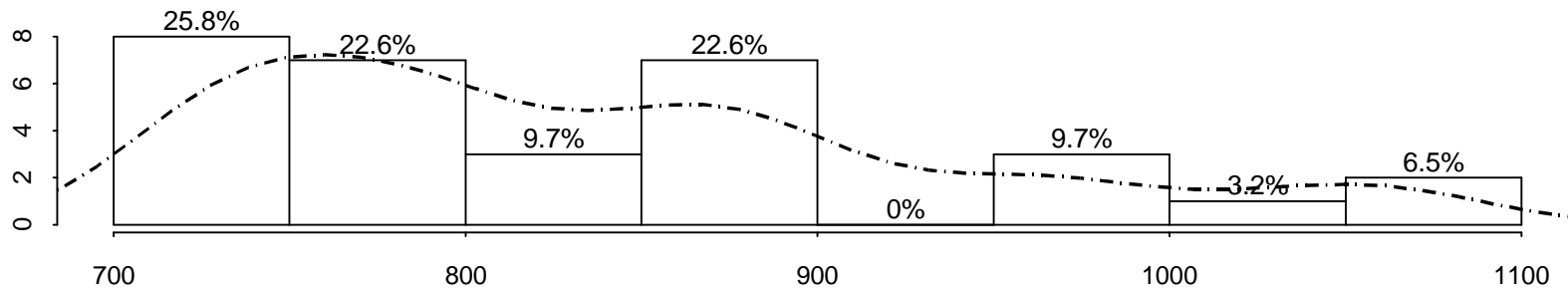
9 - Reactive Al - Sample A - mean

N: 31 NA: 0 Z: 0 E: 0 U: 31  
a: 2861 m: 2867 s: 307



9 - Reactive Al - Sample B - mean

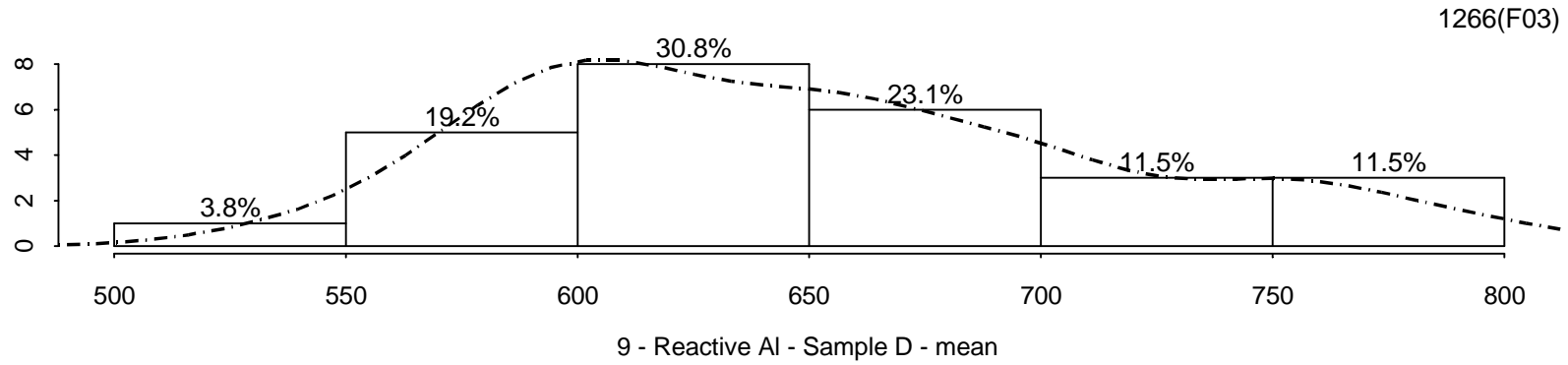
N: 31 NA: 0 Z: 0 E: 0,1 U: 30  
a: 282 m: 269 s: 59



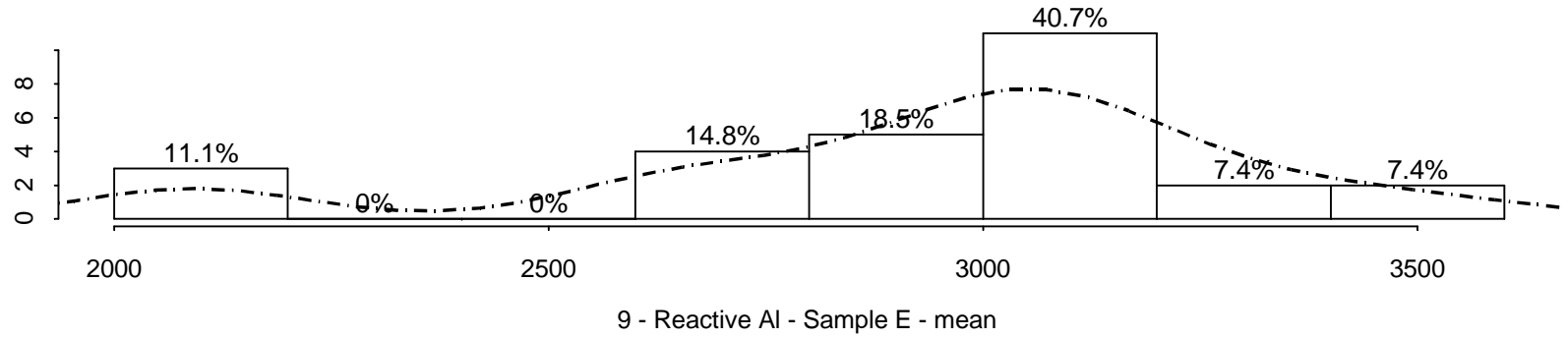
9 - Reactive Al - Sample C - mean

N: 31 NA: 0 Z: 0 E: 0 U: 31  
a: 839 m: 805 s: 101

# Histogram of the means of samples D and E

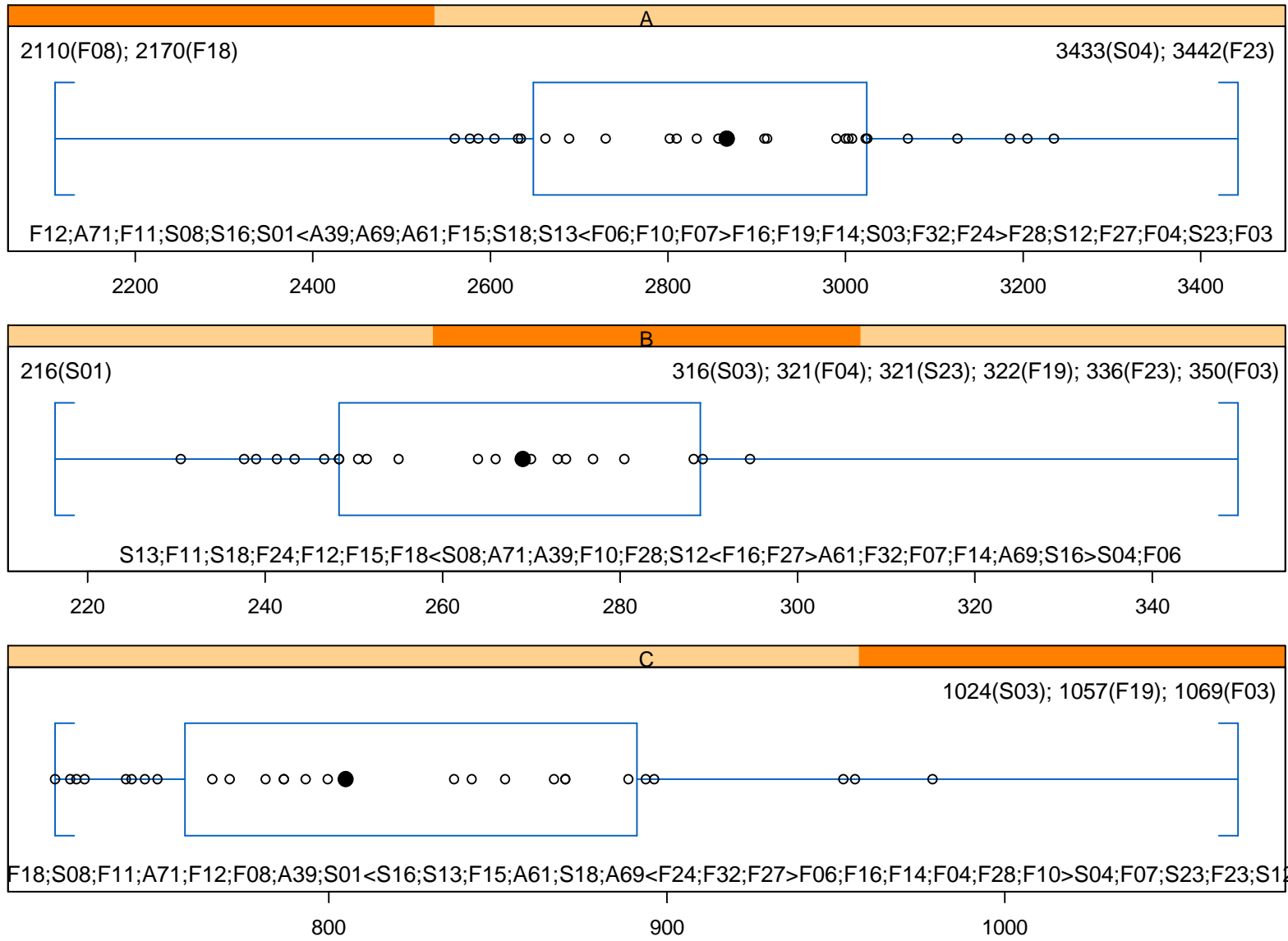


N: 27 NA: 0 Z: 0 E: 0,1 U: 26  
a: 673 m: 648 s: 134



N: 27 NA: 0 Z: 0 E: 0 U: 27  
a: 2927 m: 3008 s: 379

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



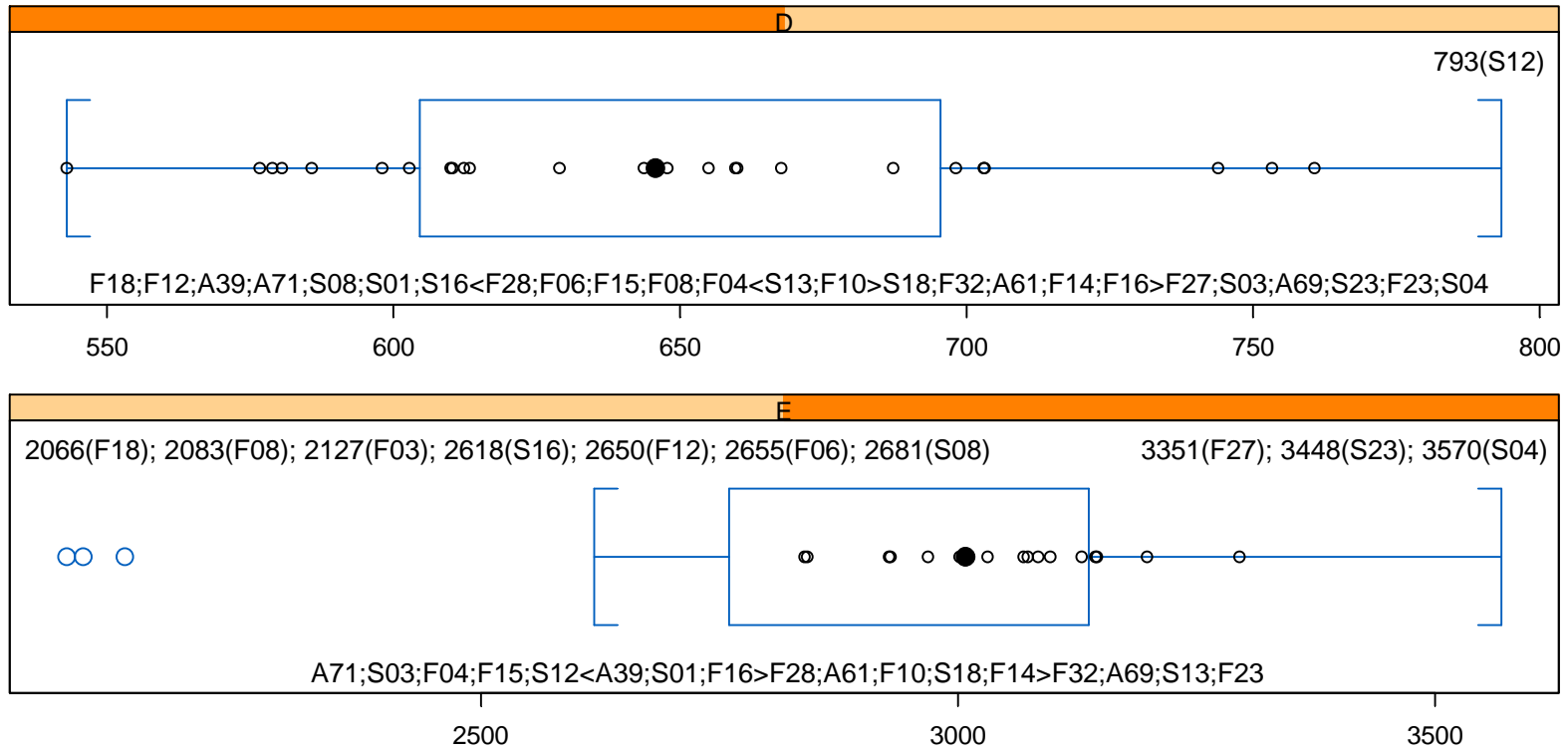
O: 2,2 / U: 31

O: 1,6 / U: 30

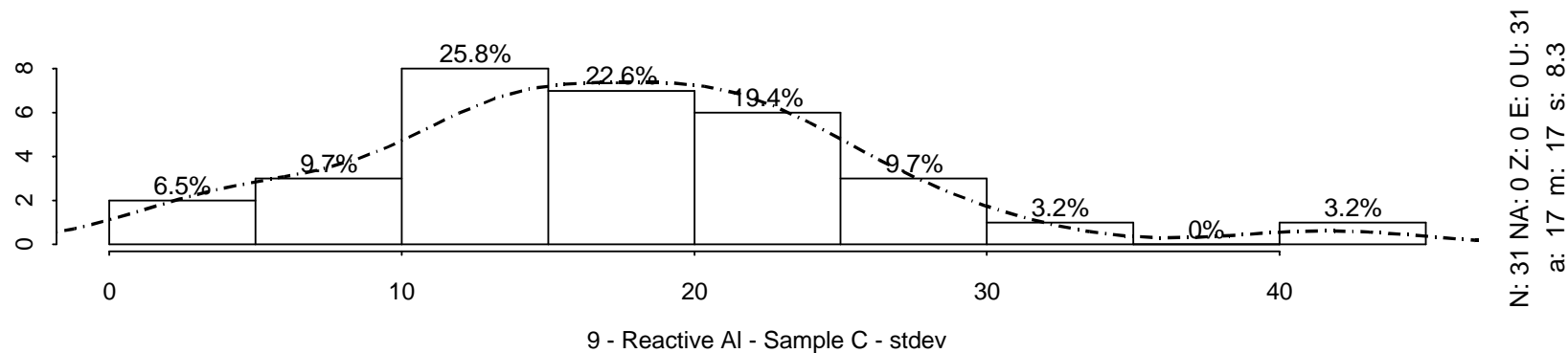
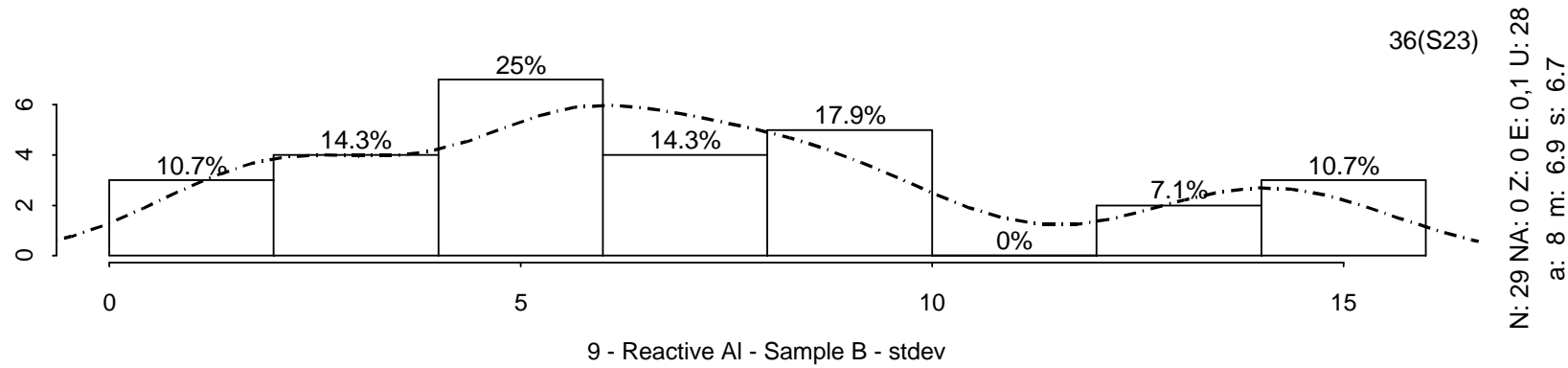
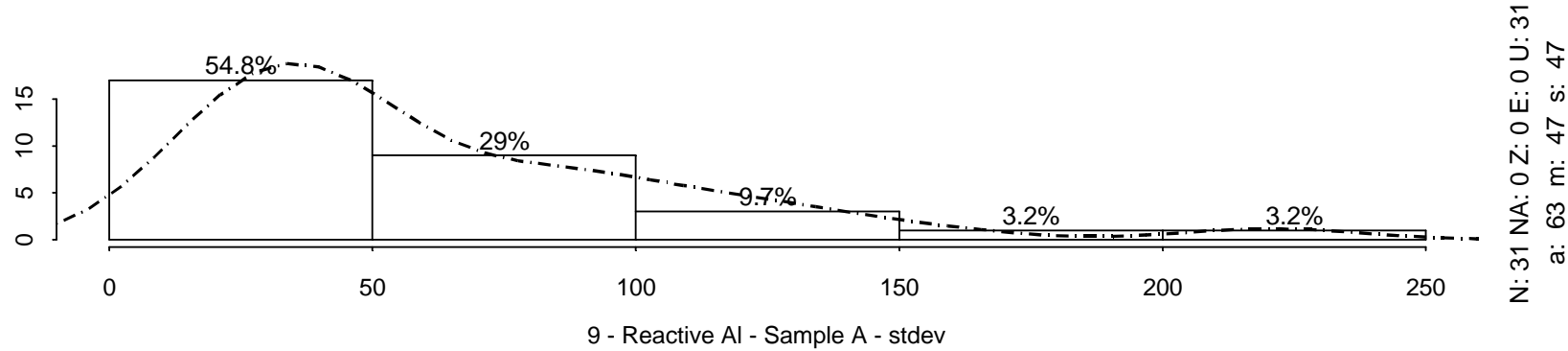
O: 0,3 / U: 31

9 - Reactive Al - mean

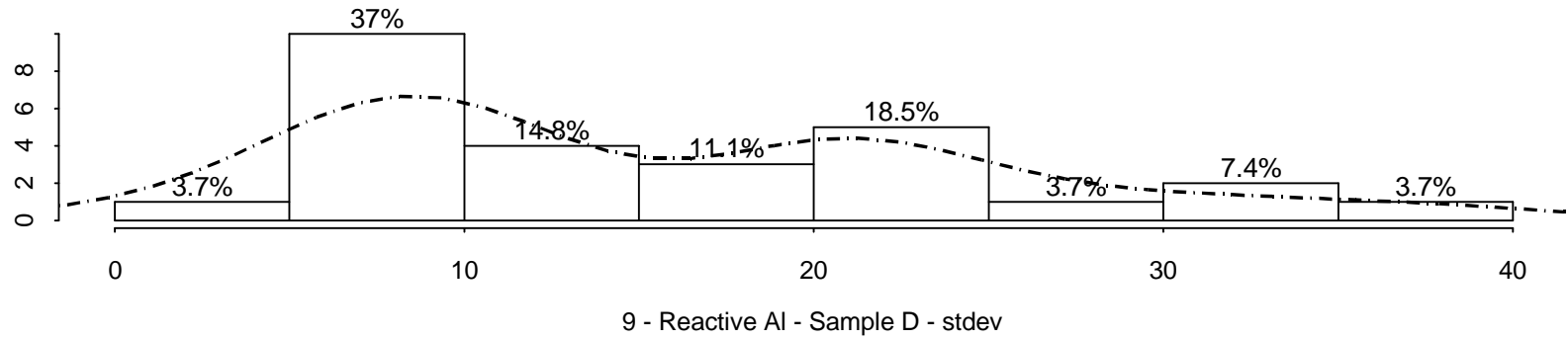
# Box plot of the means of samples D and E



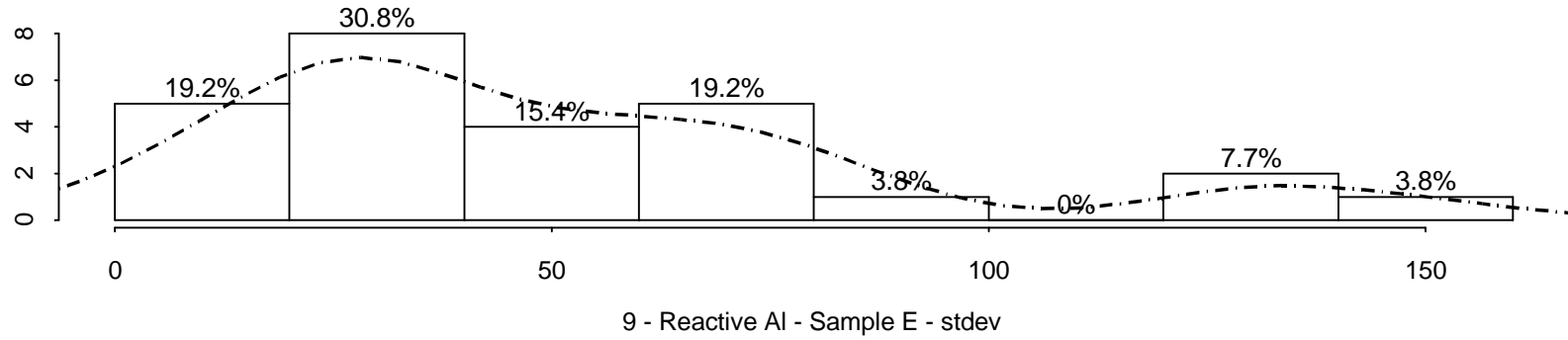
# Histogram of the standard deviations of samples A, B and C



# Histogram of the standard deviations of samples D and E

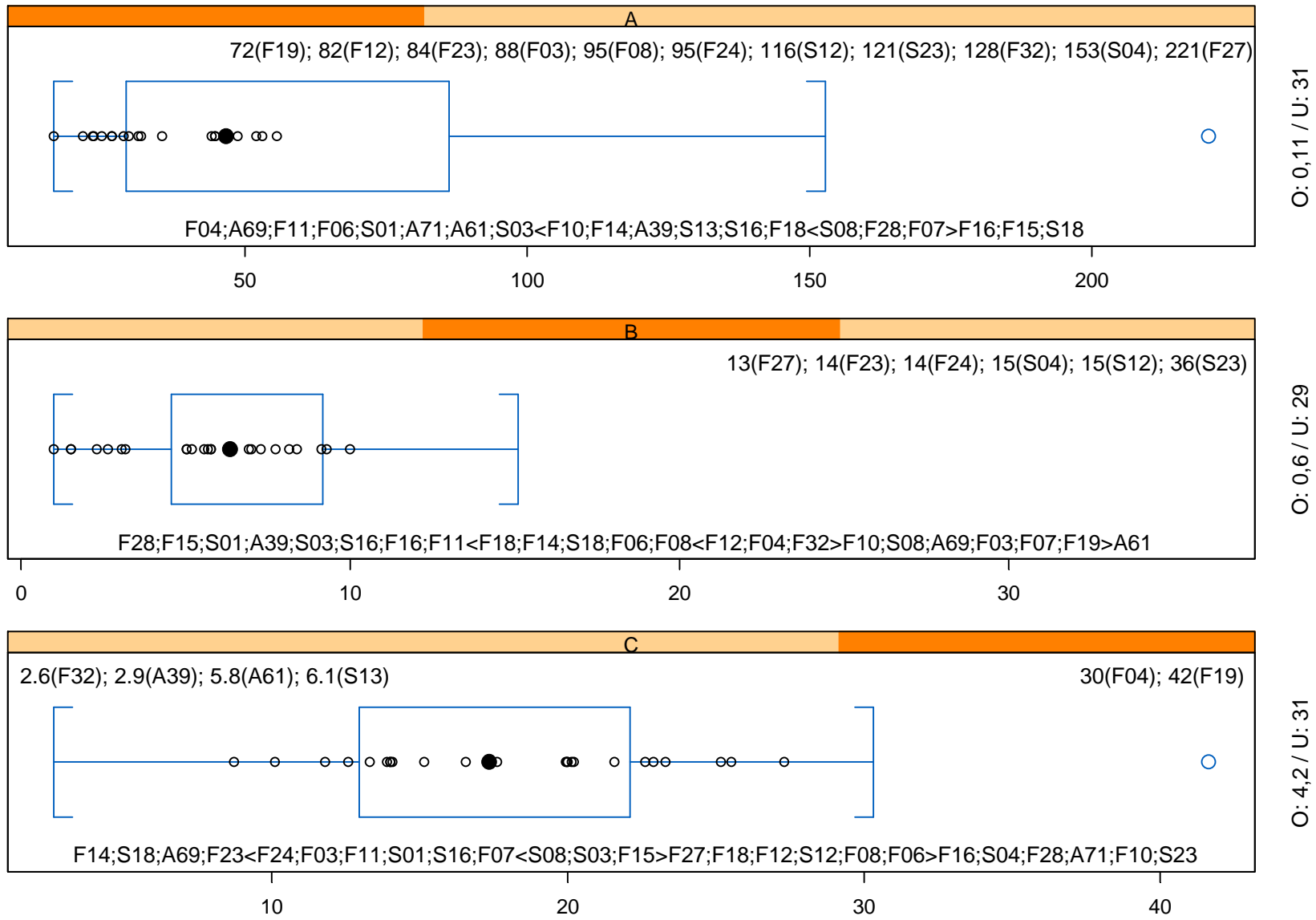


N: 27 NA: 0 Z: 0 E: 0 U: 27  
a: 16 m: 13 s: 9.7

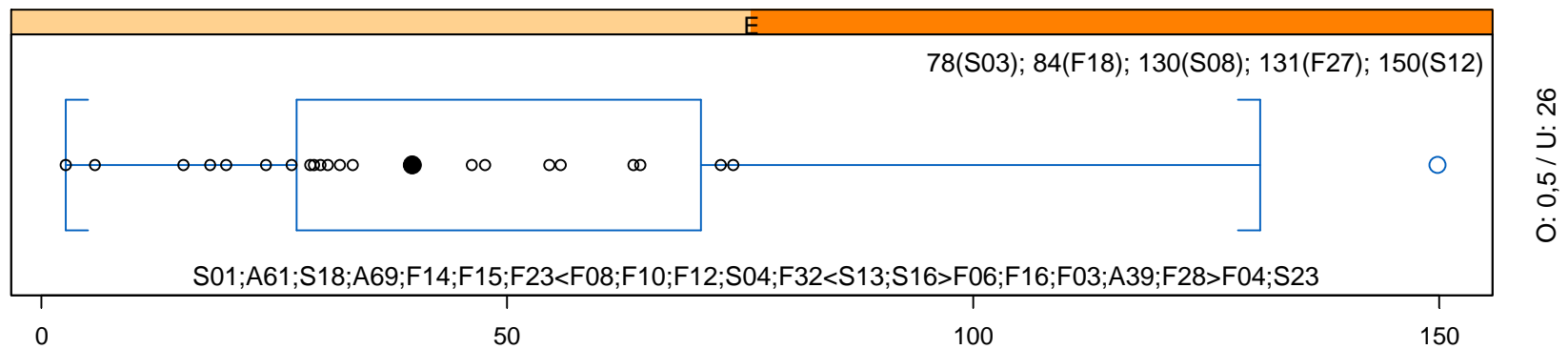
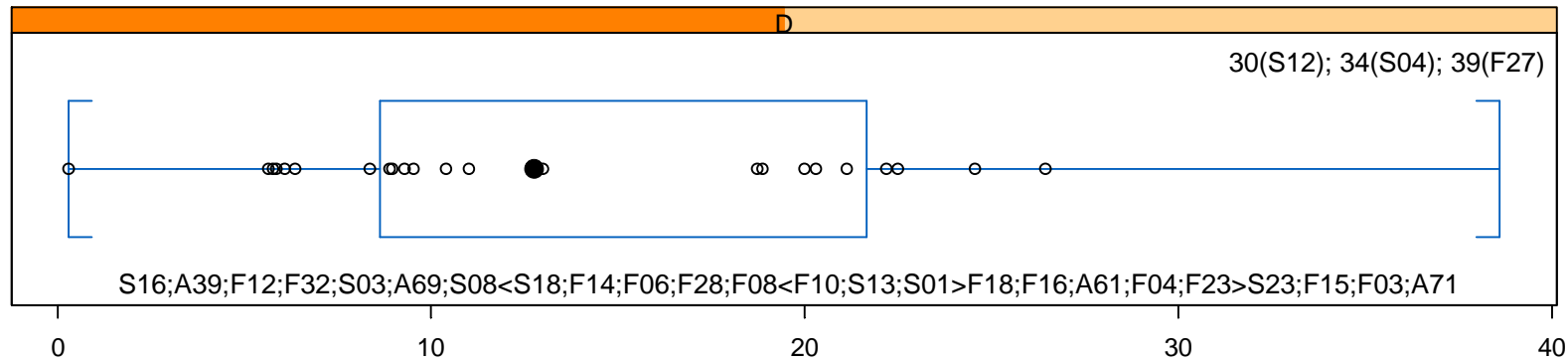


N: 26 NA: 0 Z: 0 E: 0 U: 26  
a: 52 m: 40 s: 39

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



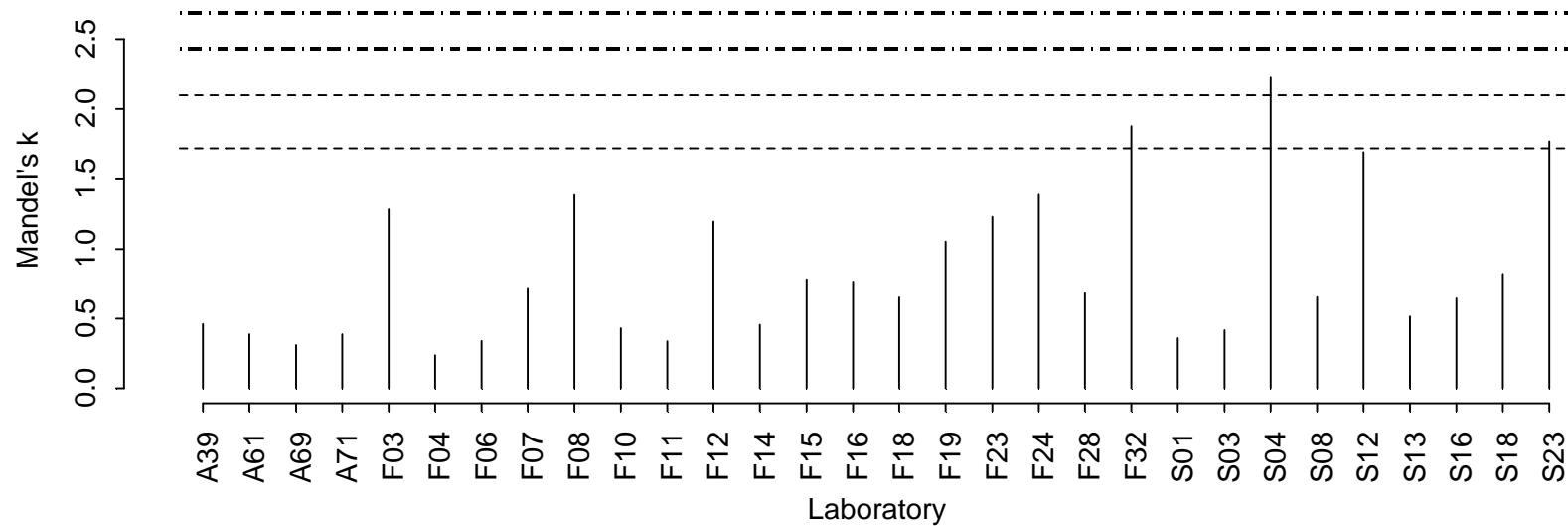
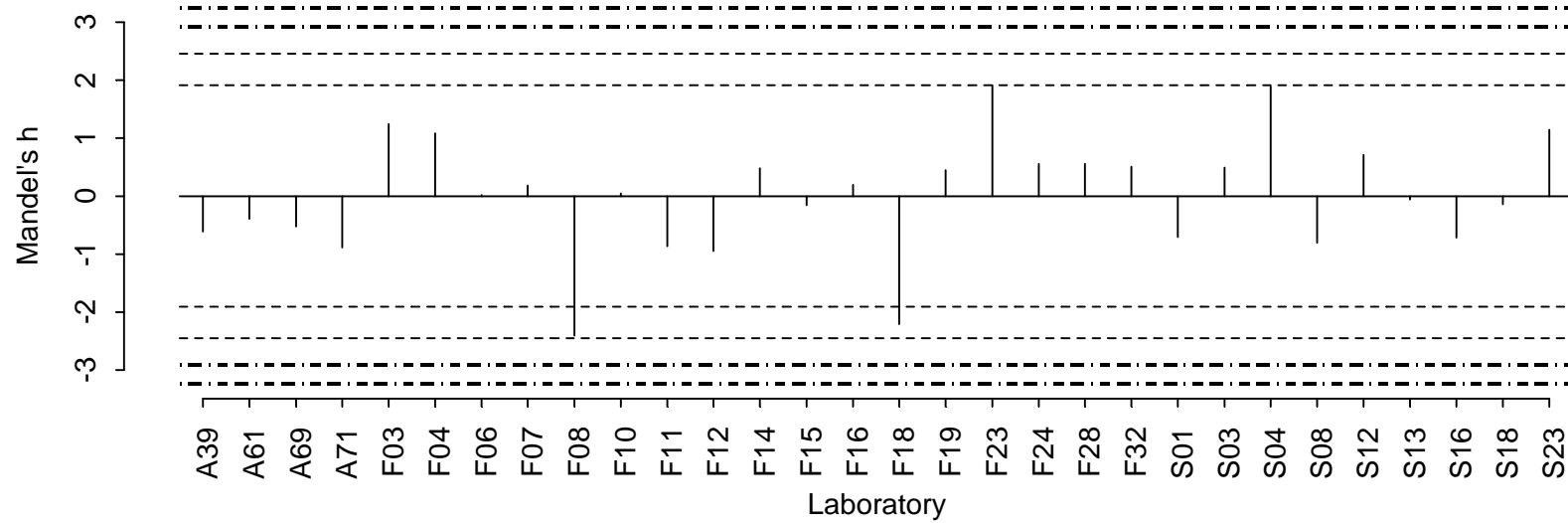
# Box plot of the standard deviations of samples D and E



# Mandel's h and k plots of sample A

## 9 - Reactive Al - Sample A

Step:2; Nlab:30; Mgen:2852.154; Fval:60.83266; Pval:0; sRep:68.44641; sLab:305.6745; sRpr:313.244; CV:10.98272

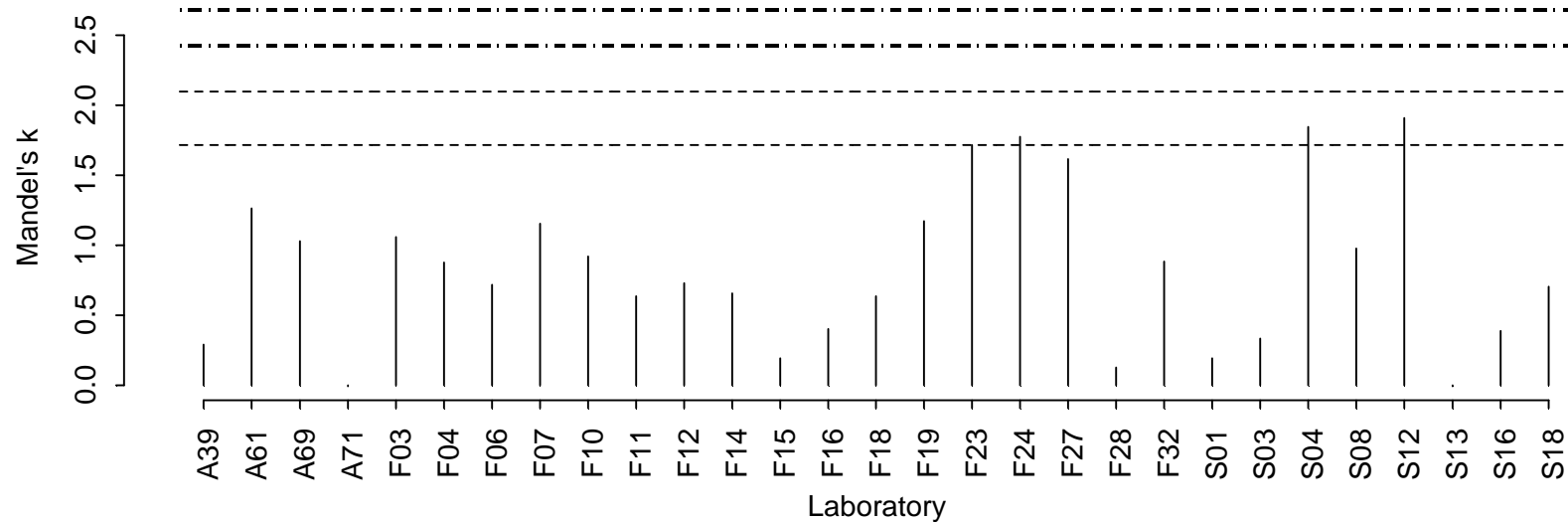
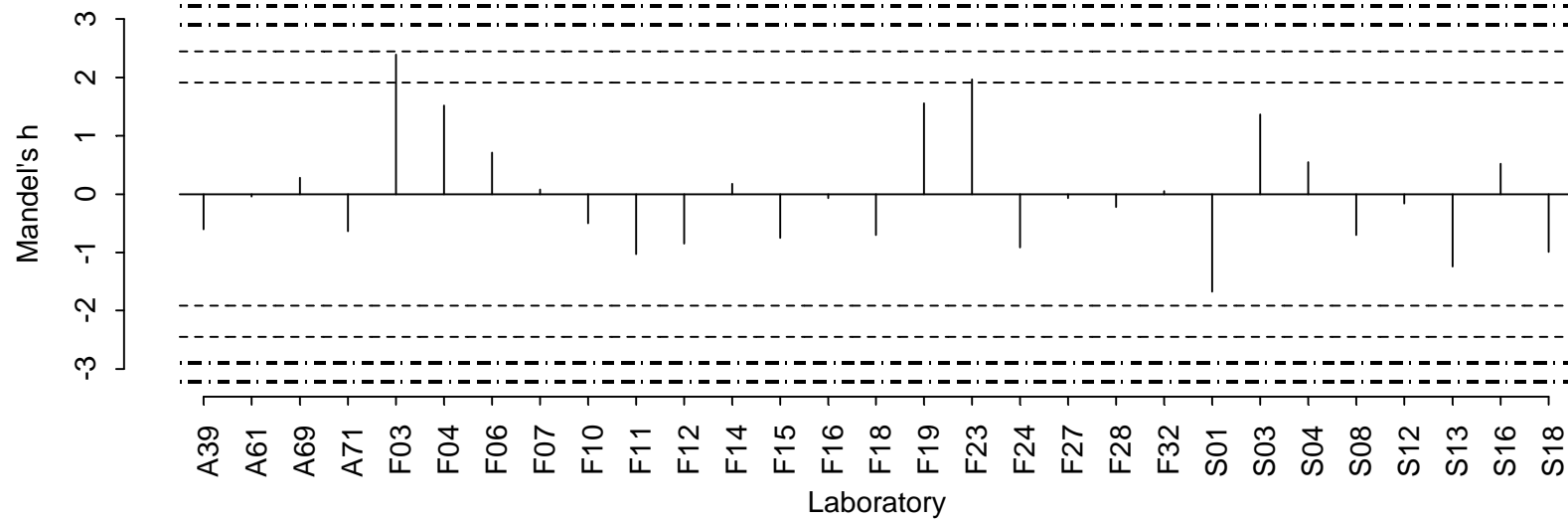


E: kF27

# Mandel's h and k plots of sample B

## 9 - Reactive Al - Sample B

Step:2; Nlab:29; Mgen:271.312; Fval:51.42011; Pval:0; sRep:7.910358; sLab:32.42929; sRpr:33.38012; CV:12.30323

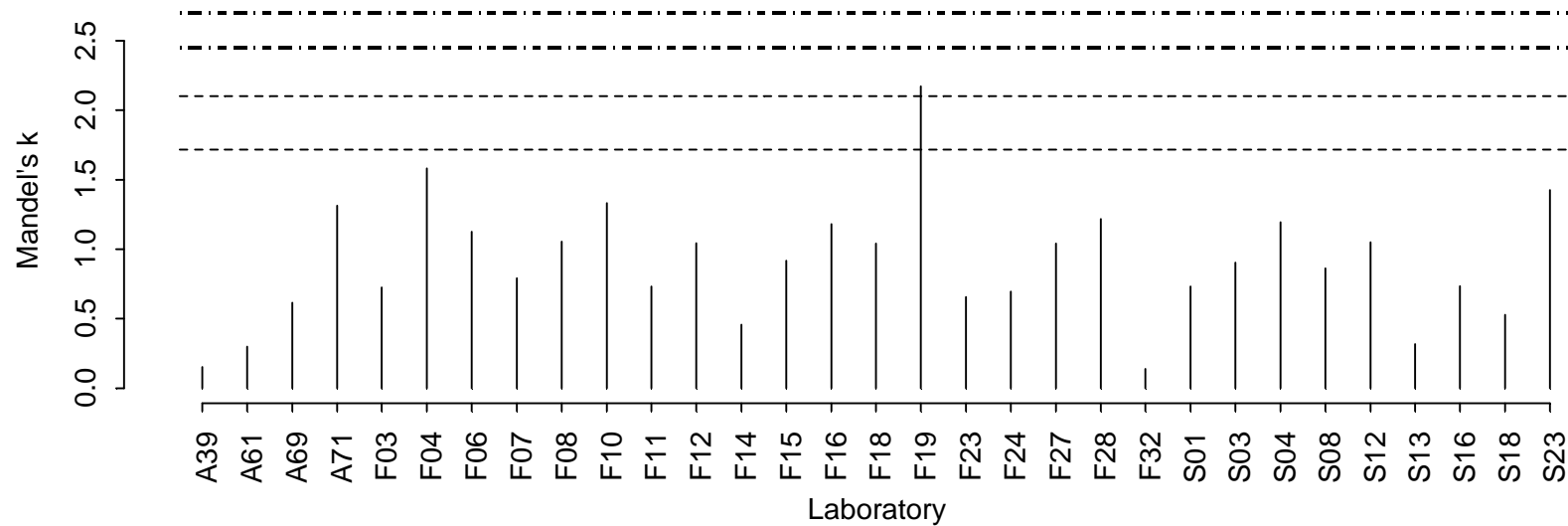
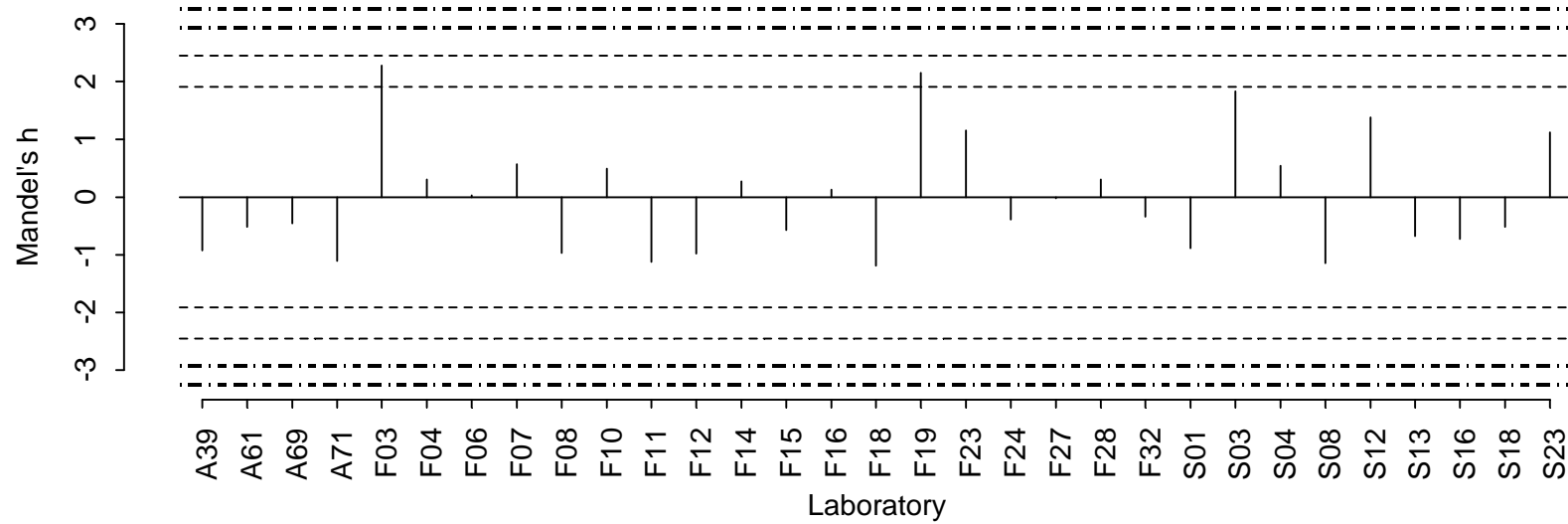


E: hF08;kS23

# Mandel's h and k plots of sample C

## 9 - Reactive Al - Sample C

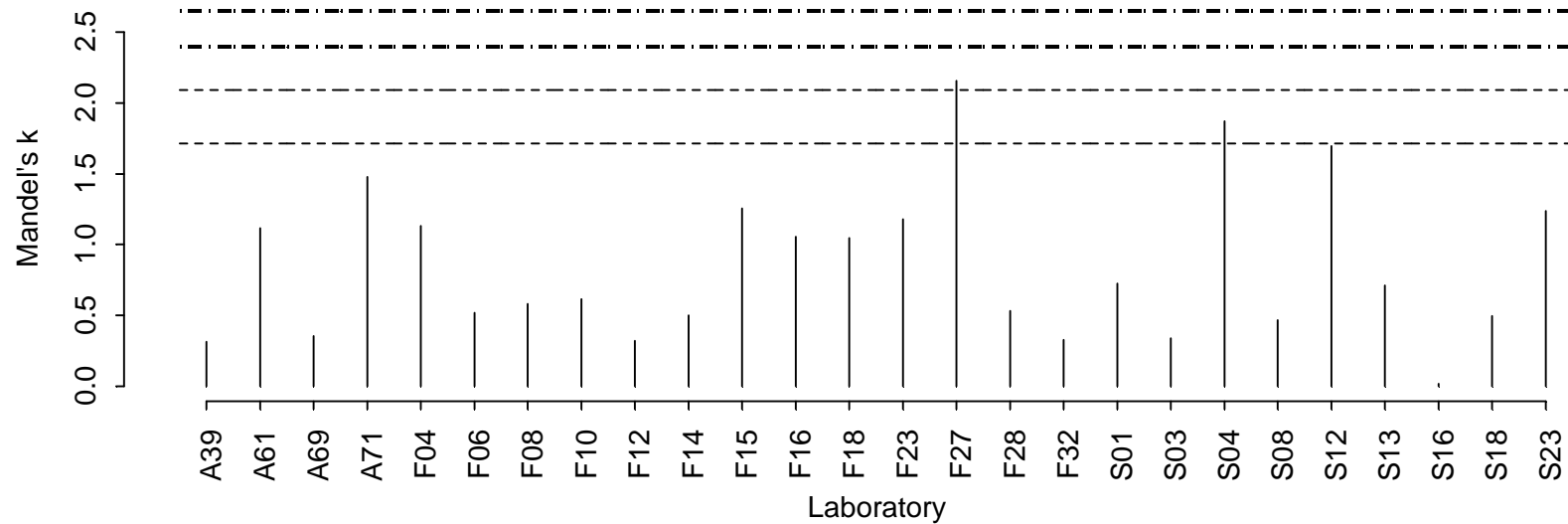
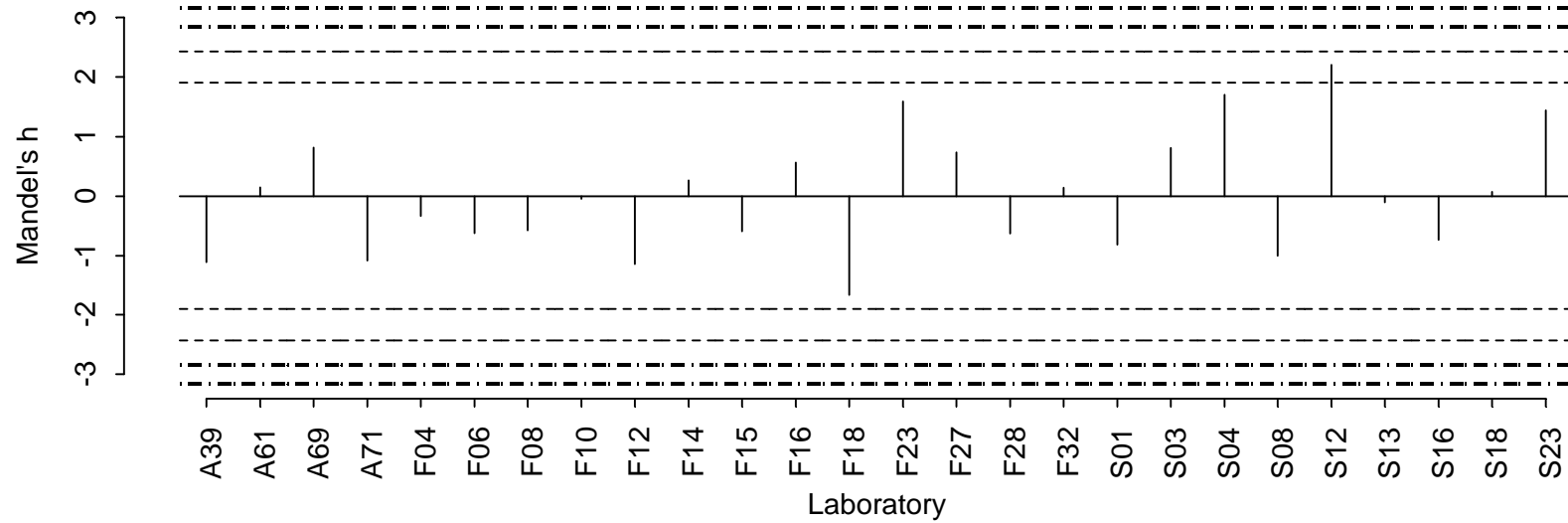
Step:1; Nlab:31; Mgen:839.1665; Fval:83.06712; Pval:0; sRep:19.15636; sLab:100.1929; sRpr:102.0078; CV:12.15585



# Mandel's h and k plots of sample D

## 9 - Reactive Al - Sample D

Step:2; Nlab:26; Mgen:650.664; Fval:39.0251; Pval:0; sRep:17.91328; sLab:63.77488; sRpr:66.24289; CV:10.18081

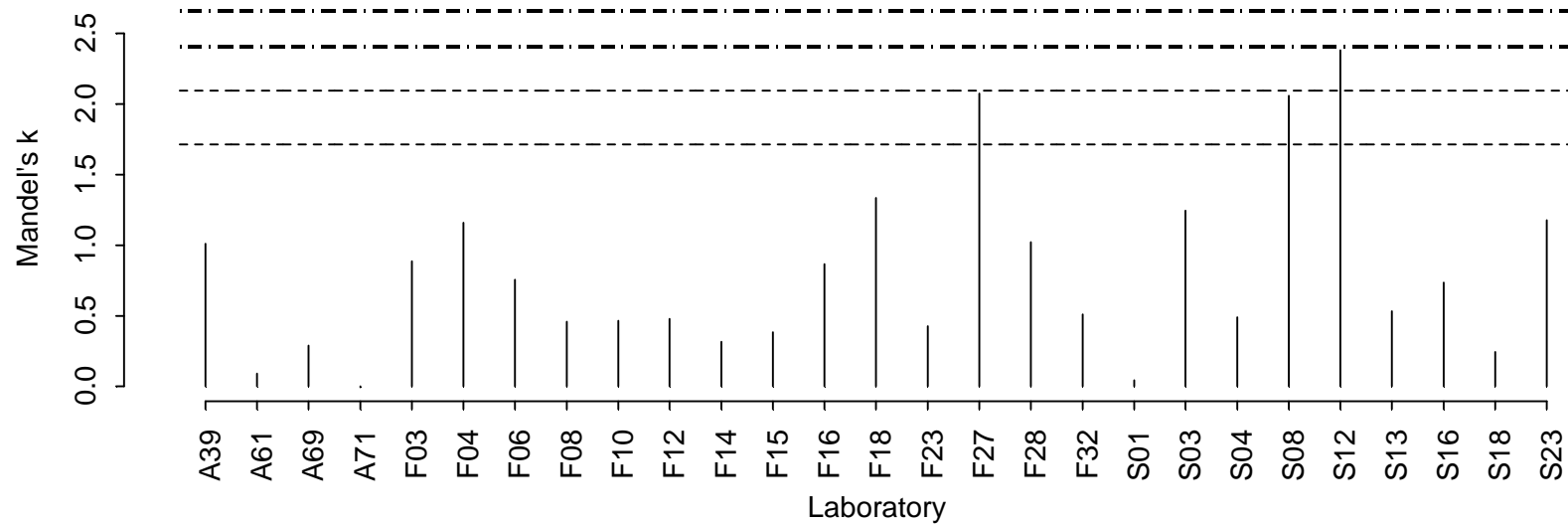
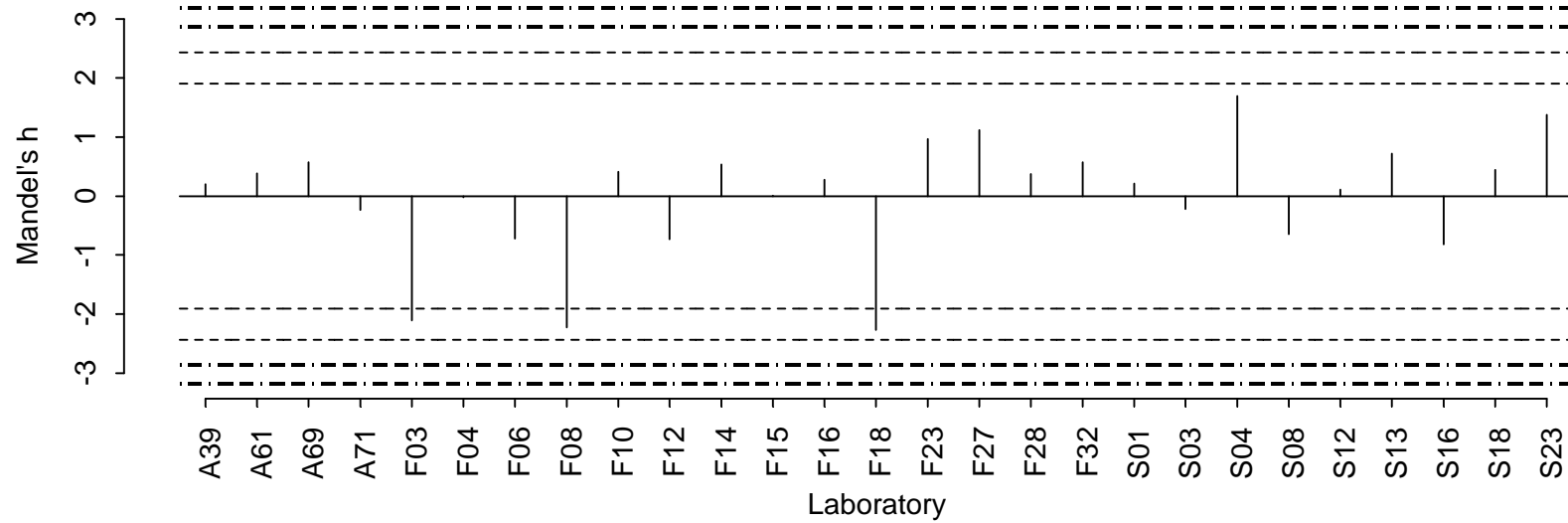


E: hF03

# Mandel's h and k plots of sample E

## 9 - Reactive Al - Sample E

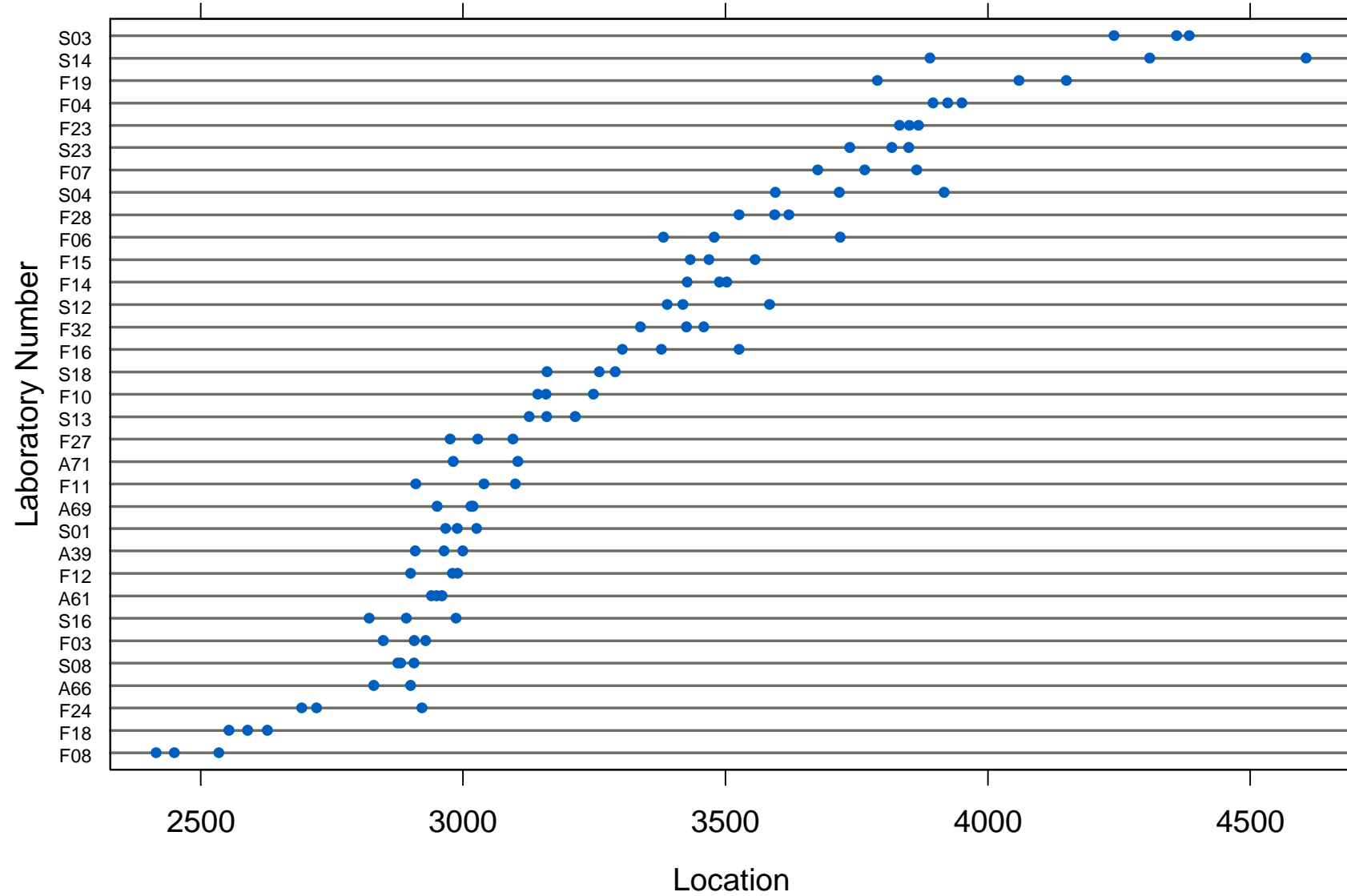
Step:1; Nlab:27; Mgen:2927.144; Fval:108.9452; Pval:0; sRep:62.96527; sLab:377.6957; sRpr:382.9081; CV:13.08129



# Reactive Fe

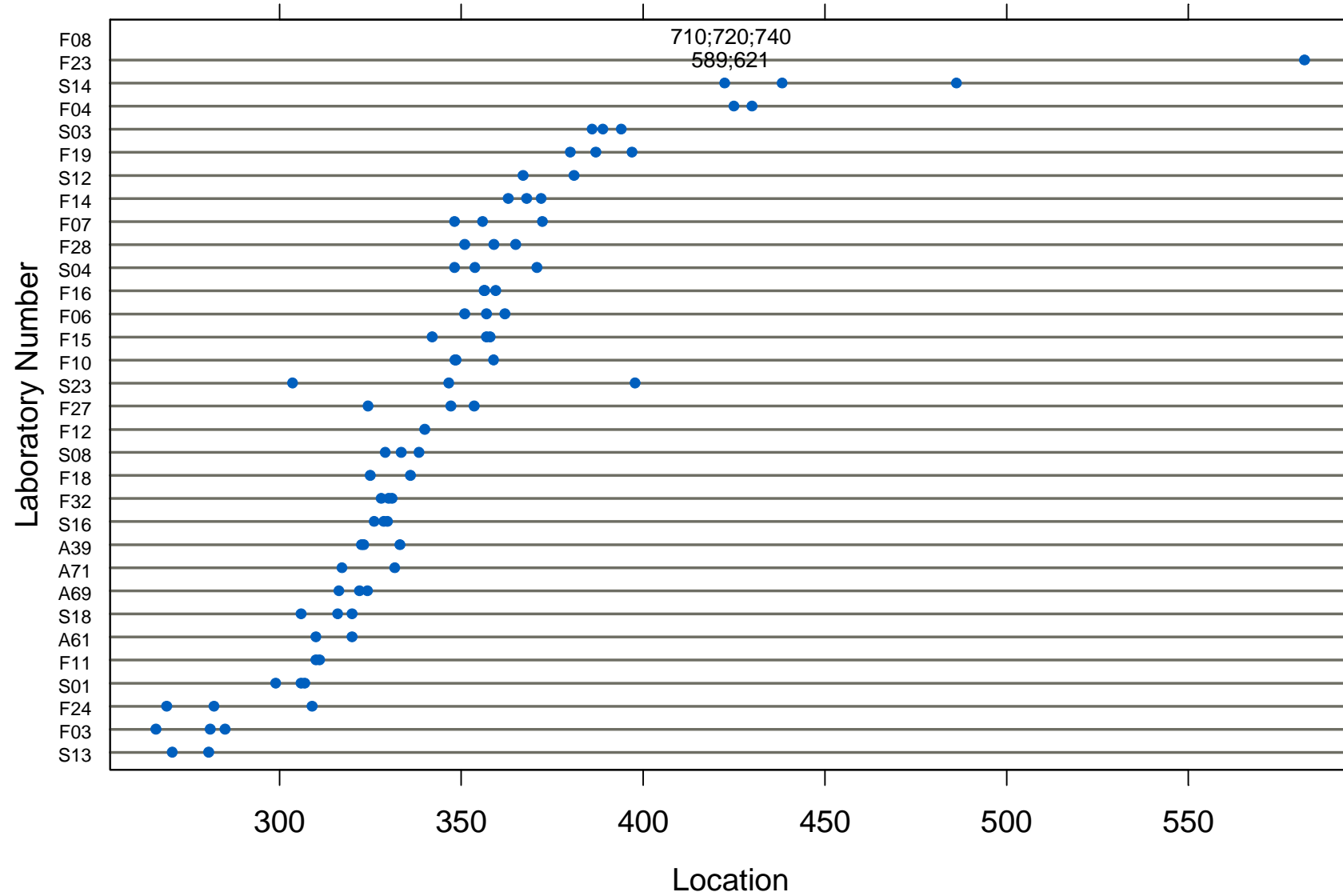
# Dot plot sample A

9 - Reactive Fe - Sample A



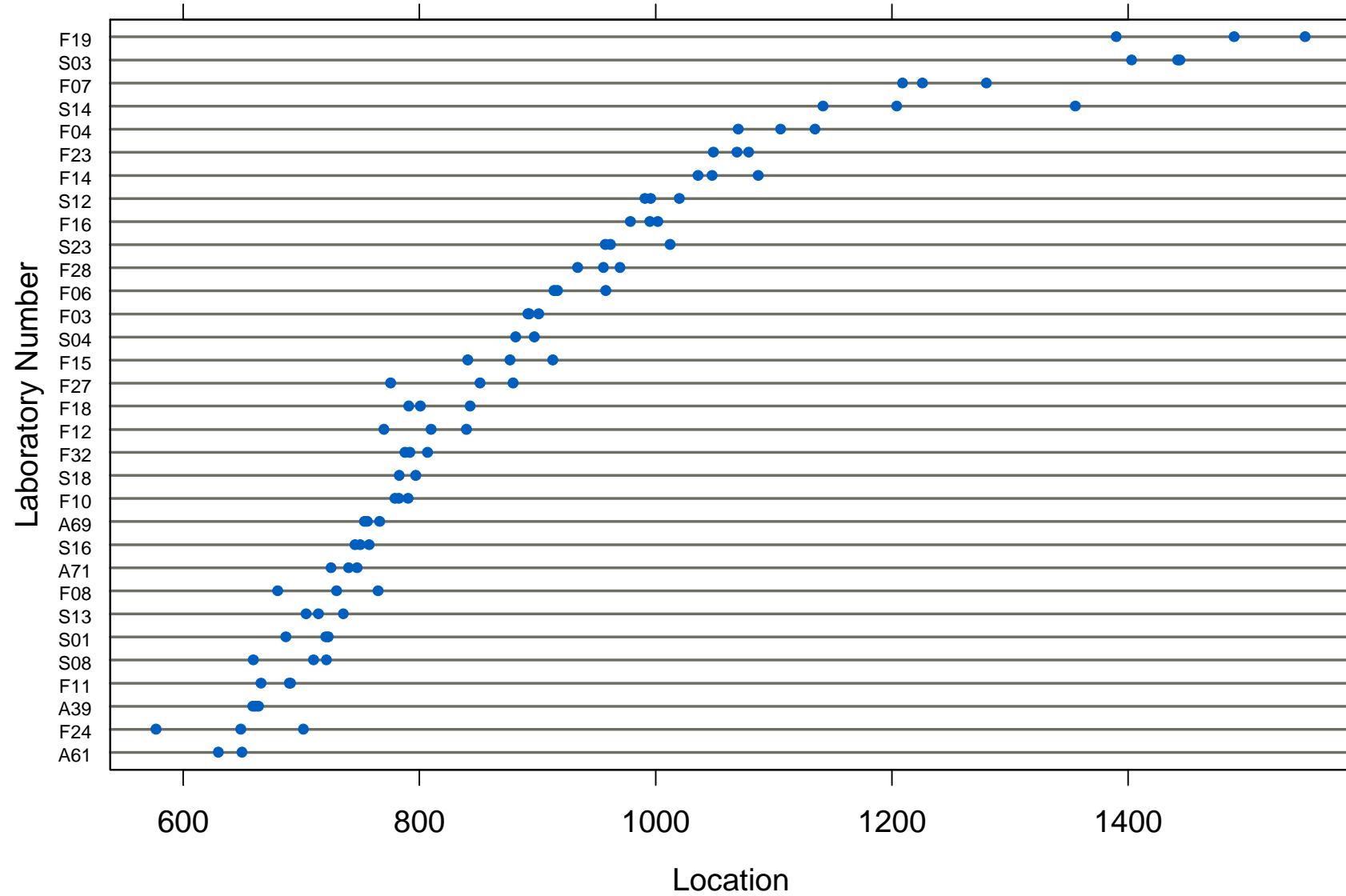
# Dot plot sample B

9 - Reactive Fe - Sample B



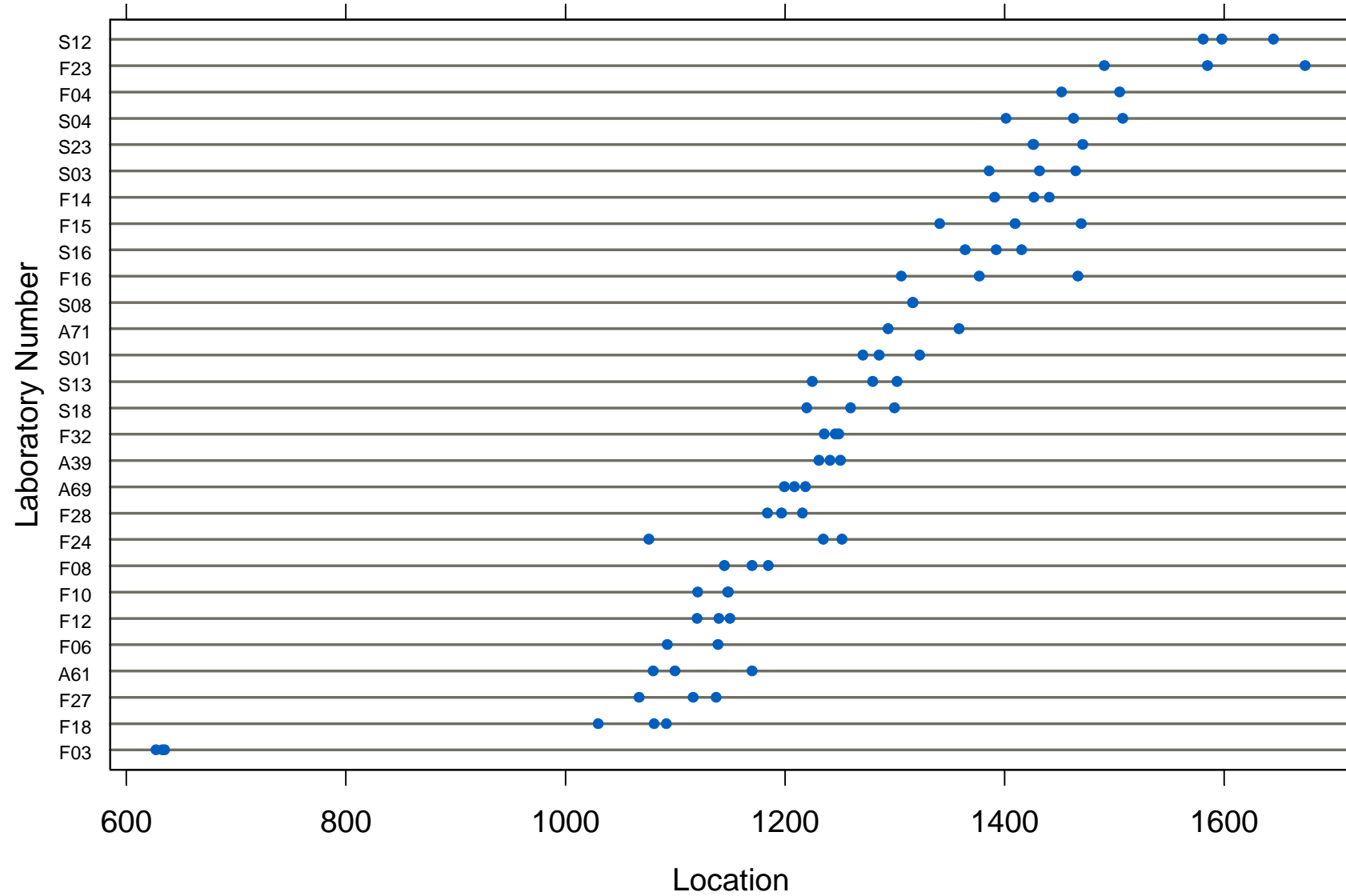
# Dot plot sample C

9 - Reactive Fe - Sample C



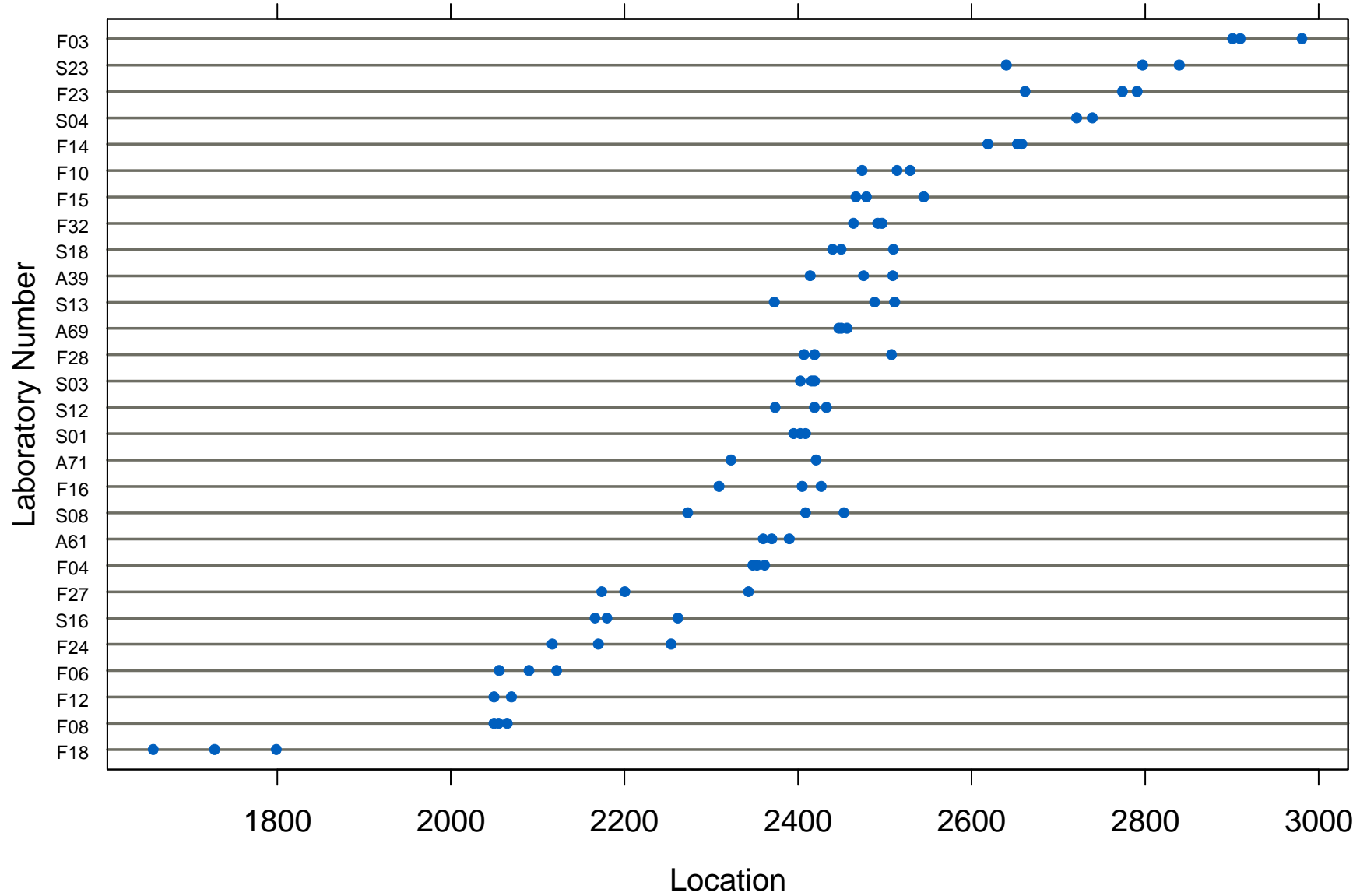
# Dot plot sample D

9 - Reactive Fe - Sample D

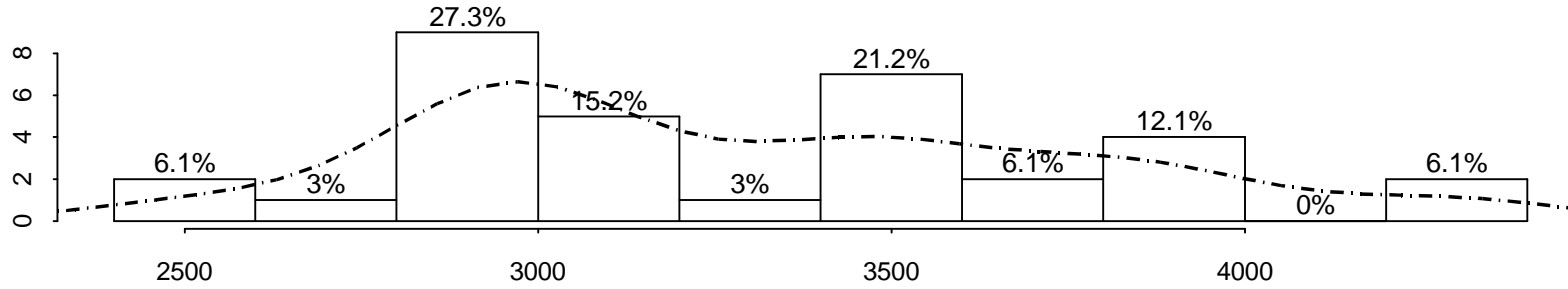


# Dot plot sample E

9 - Reactive Fe - Sample E

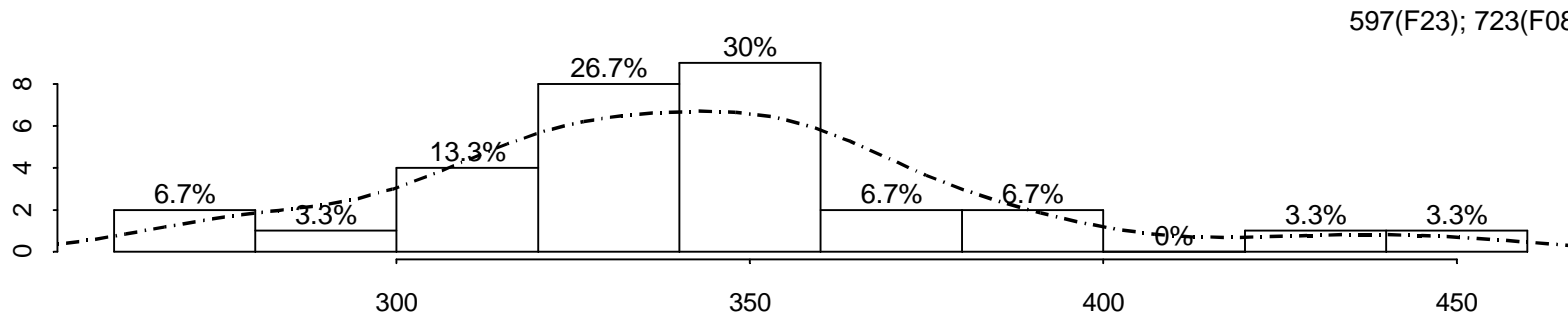


# Histogram of the means of samples A, B and C



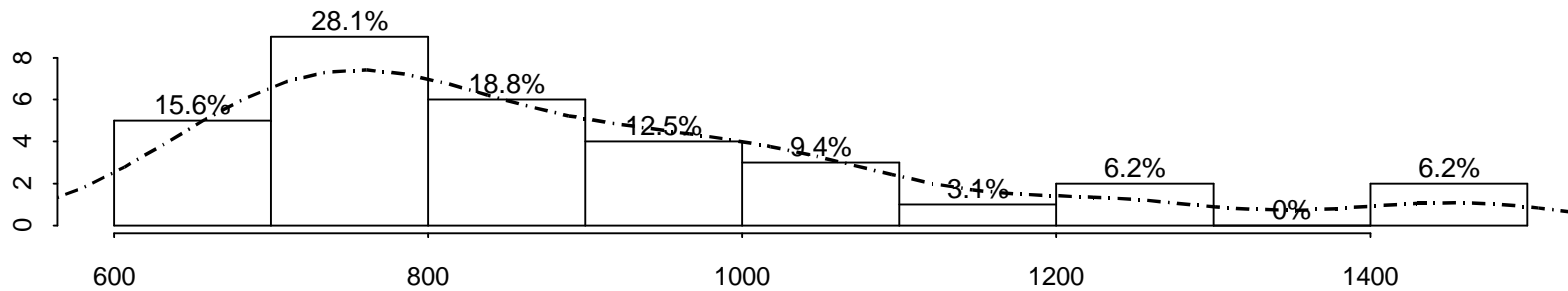
9 - Reactive Fe - Sample A - mean

N: 33 NA: 0 Z: 0 E: 0 U: 33  
a: 3300 m: 3183 s: 470



9 - Reactive Fe - Sample B - mean

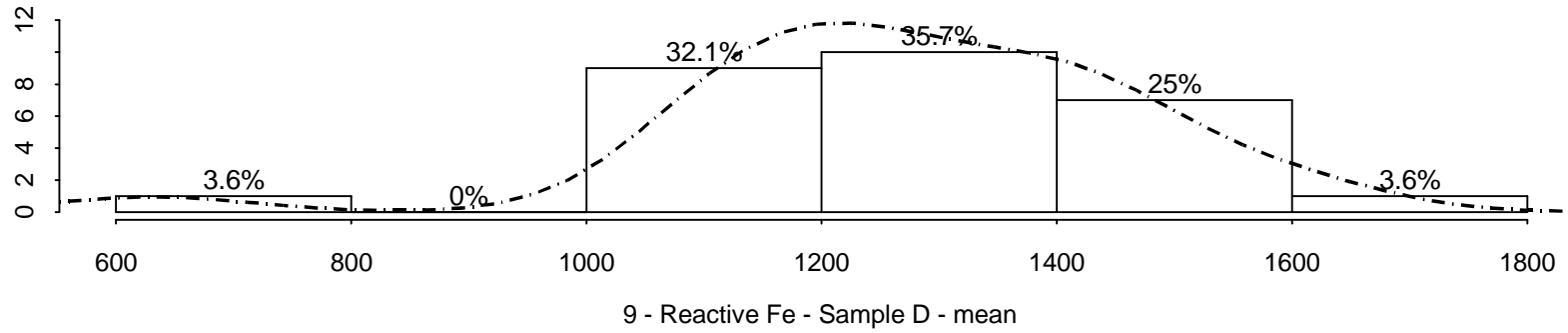
N: 32 NA: 0 Z: 0 E: 0.2 U: 30  
a: 363 m: 346 s: 88



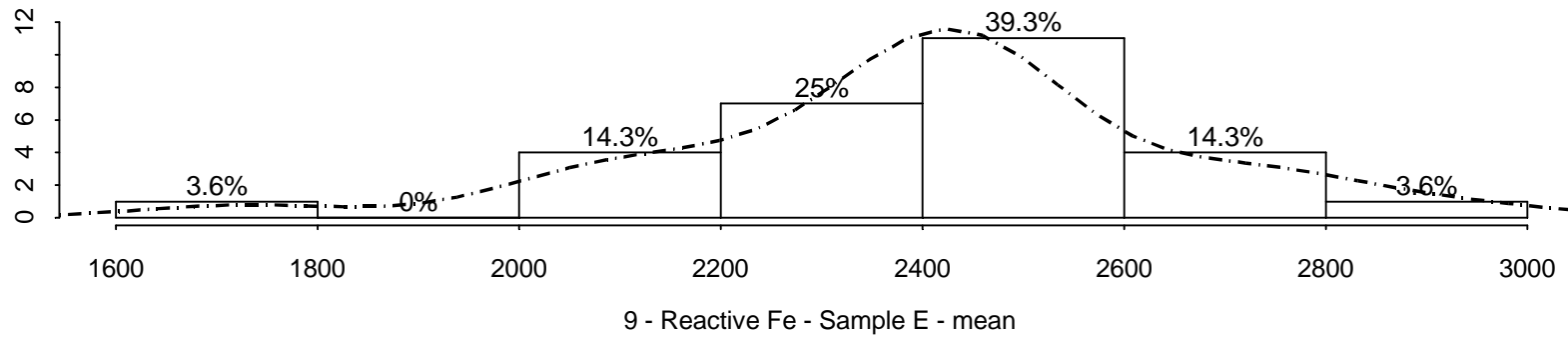
9 - Reactive Fe - Sample C - mean

N: 32 NA: 0 Z: 0 E: 0 U: 32  
a: 896 m: 824 s: 218

# Histogram of the means of samples D and E

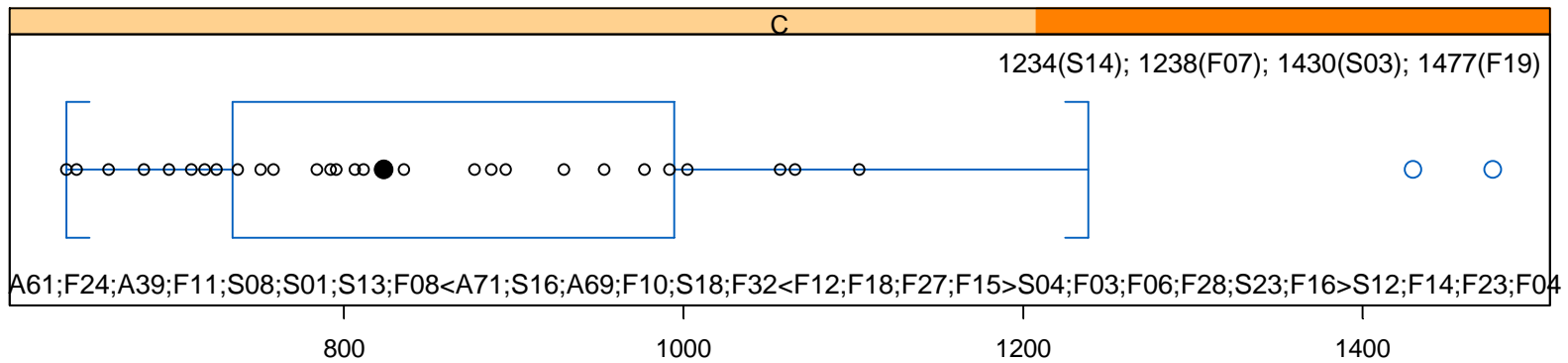
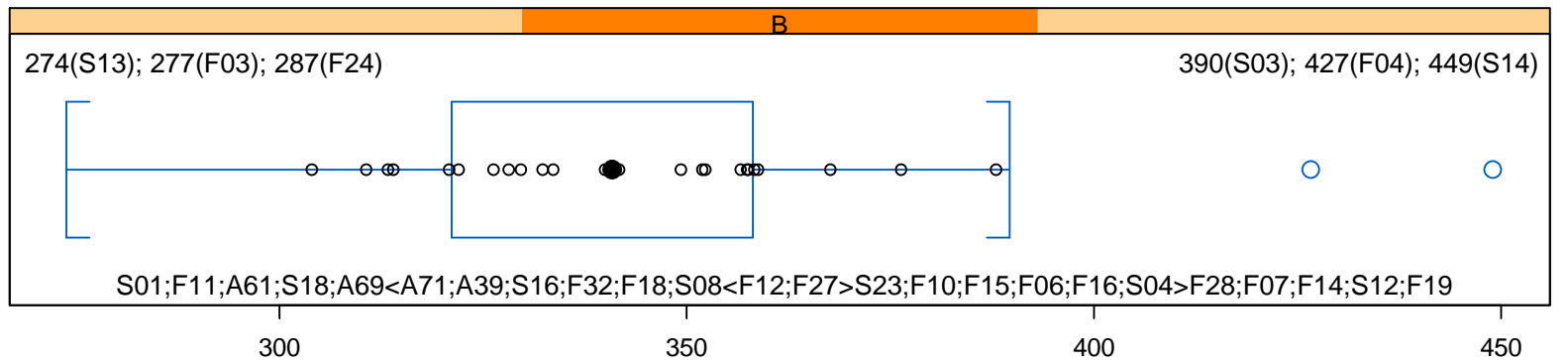
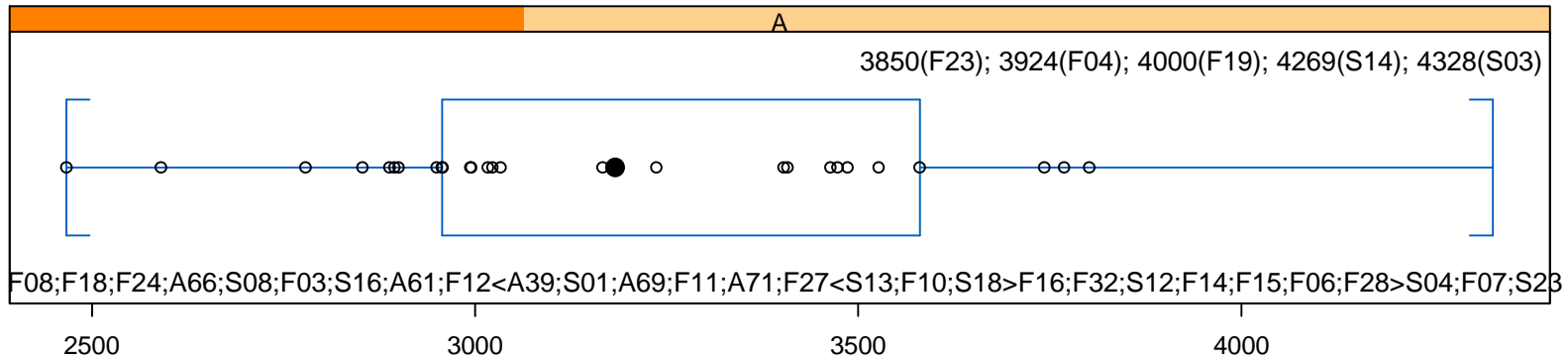


N: 28 NA: 0 Z: 0 E: 0 U: 28  
a: 1272 m: 1265 s: 193



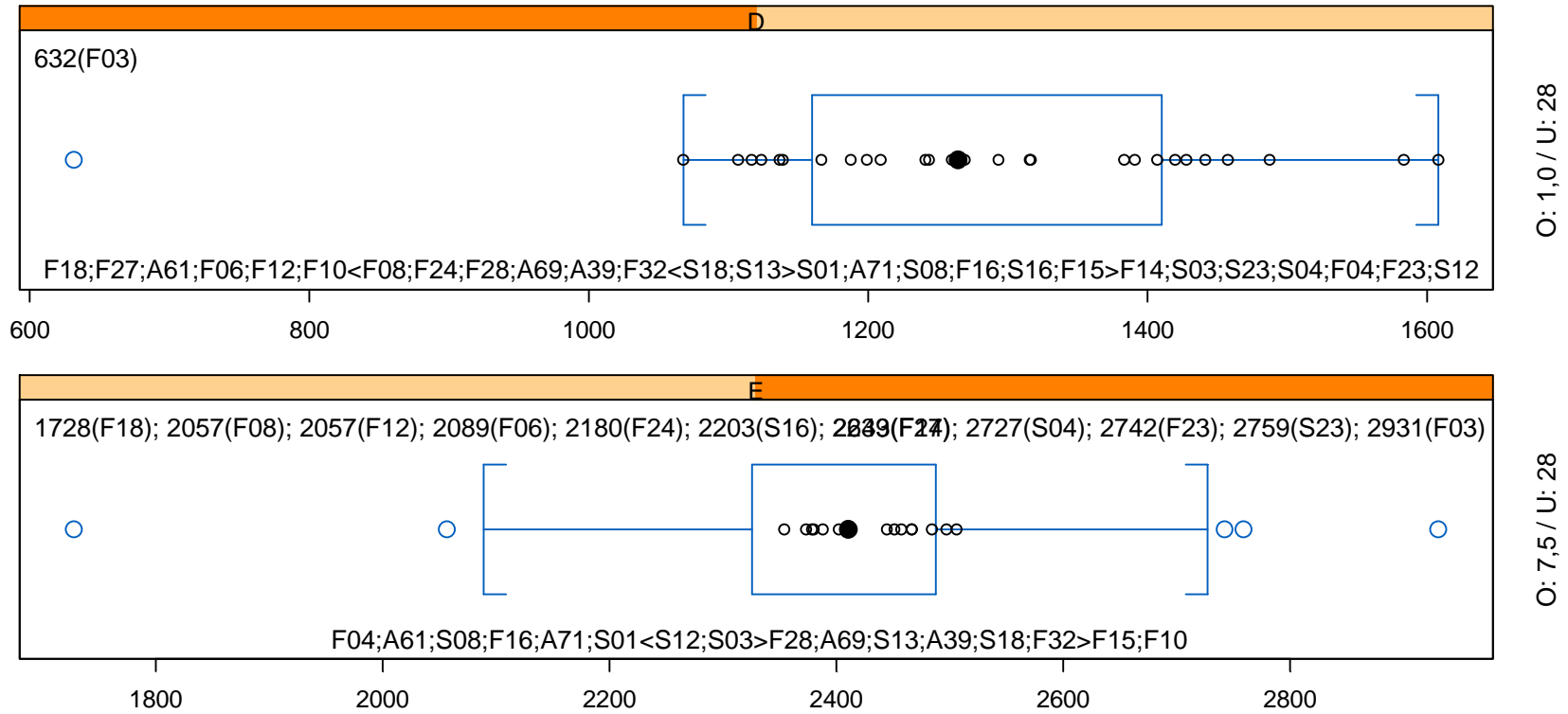
N: 28 NA: 0 Z: 0 E: 0 U: 28  
a: 2401 m: 2411 s: 246

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

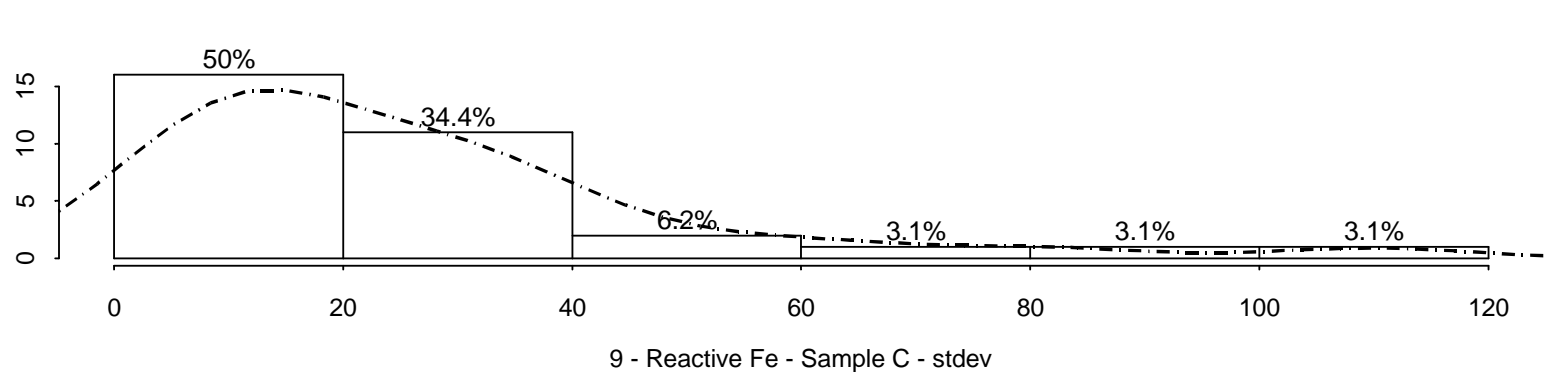
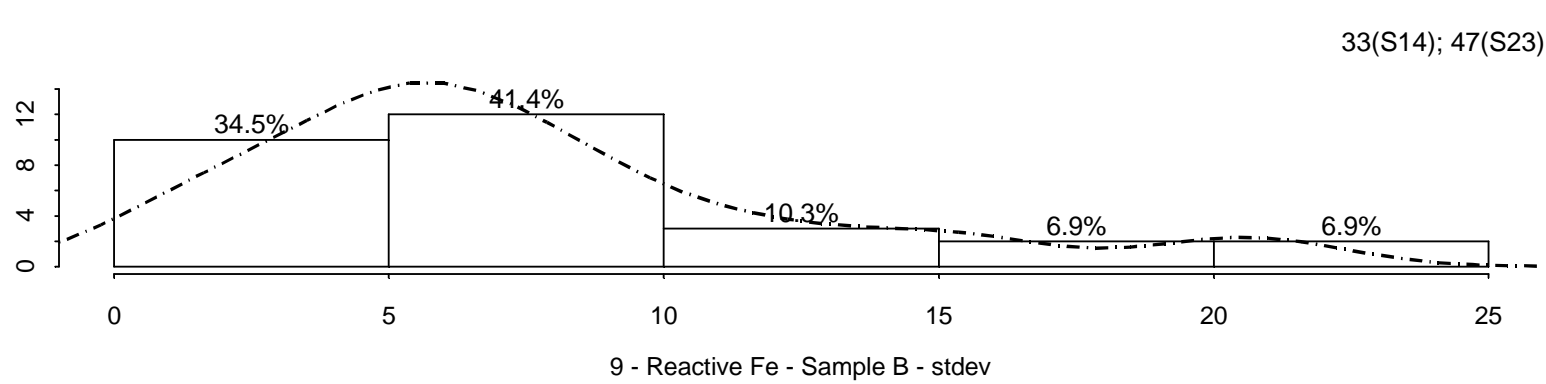
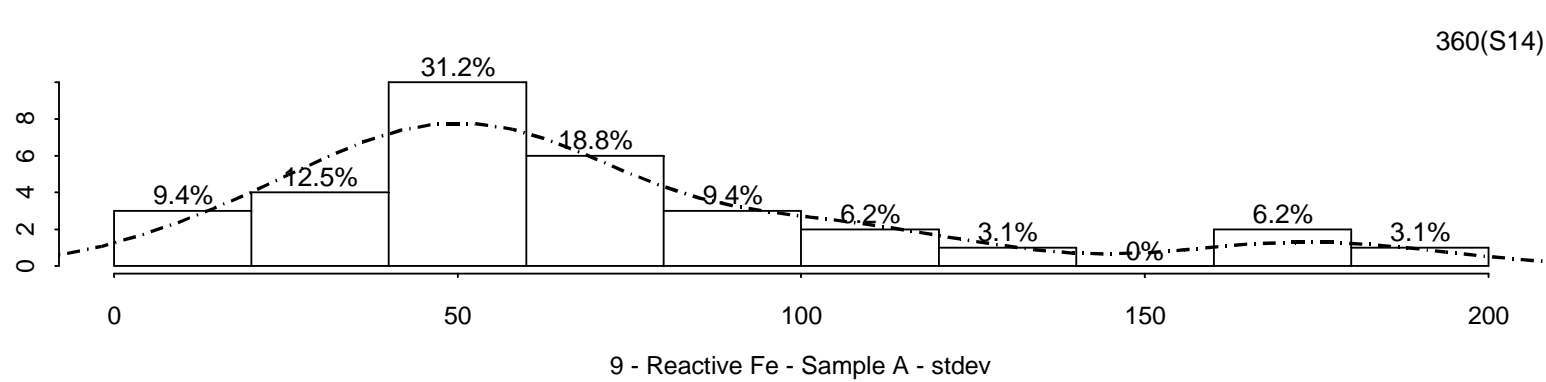


9 - Reactive Fe - mean

# Box plot of the means of samples D and E



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

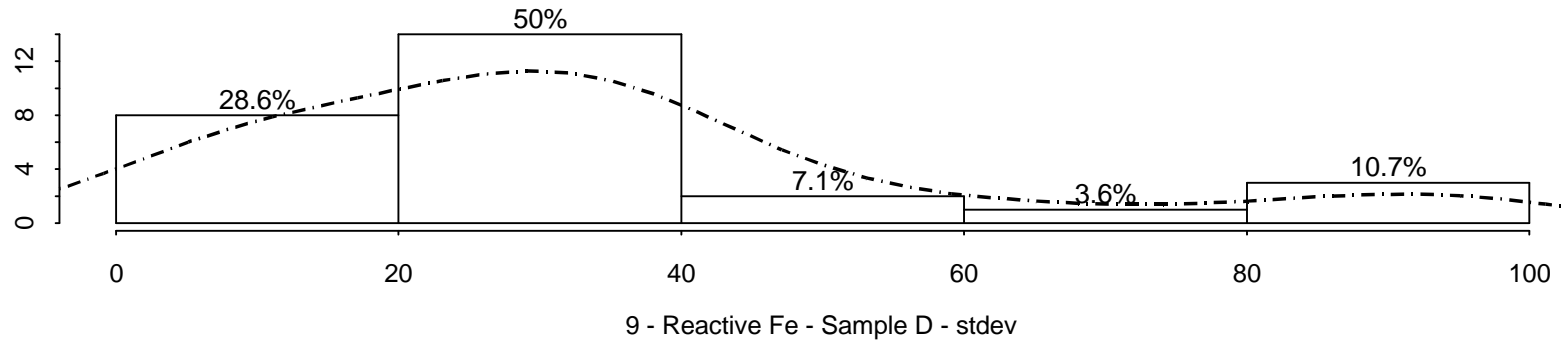


360(S14)  
N: 33 NA: 0 Z: 0 E: 0,1 U: 32  
a: 78 m: 60 s: 67

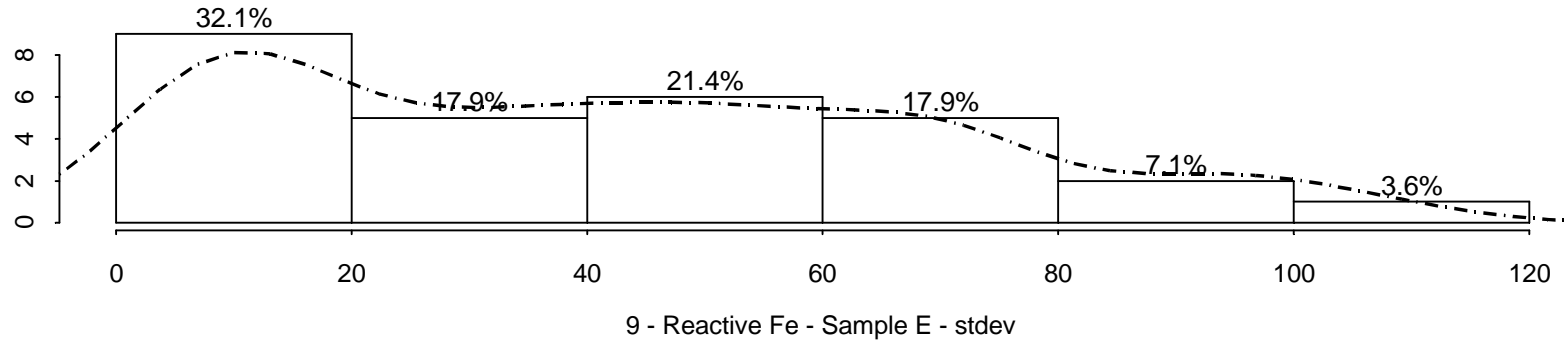
33(S14); 47(S23)  
N: 31 NA: 0 Z: 0 E: 0,2 U: 29  
a: 9.7 m: 6.4 s: 9.7

N: 32 NA: 0 Z: 0 E: 0 U: 32  
a: 26 m: 19 s: 23

# Histogram of the standard deviations of samples D and E

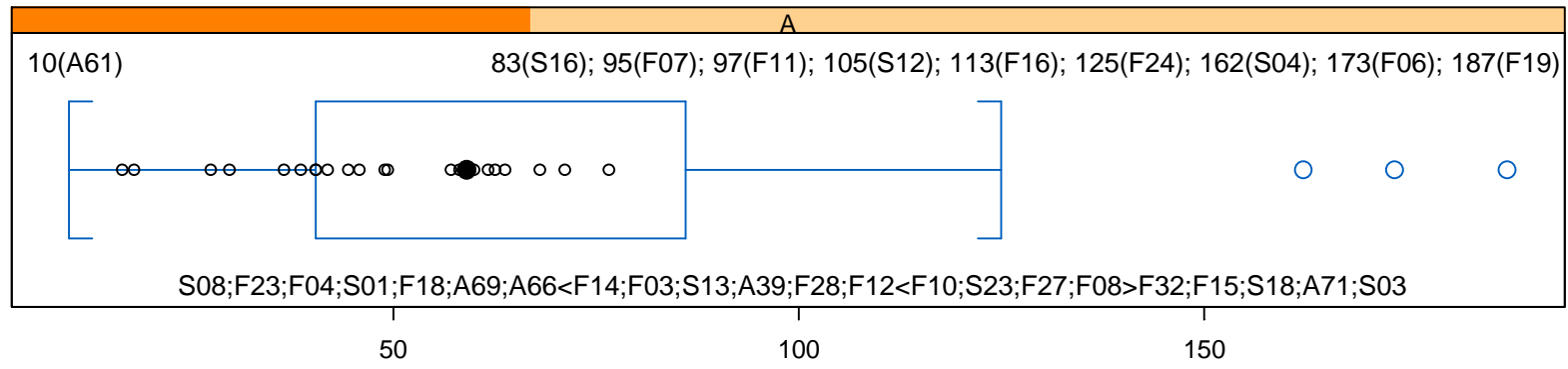


N: 28 NA: 0 Z: 0 E: 0 U: 28  
a: 34 m: 29 s: 25

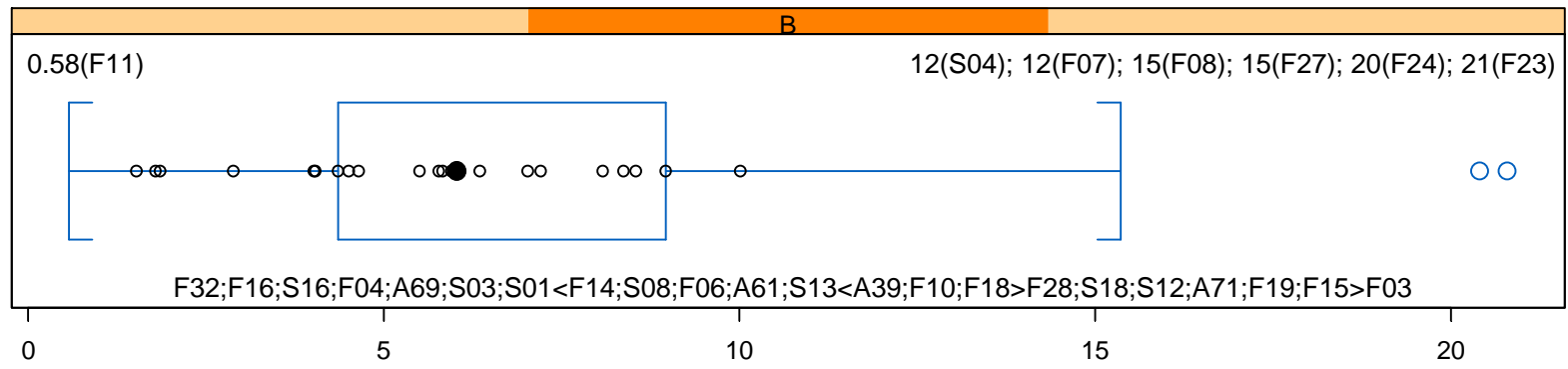


N: 28 NA: 0 Z: 0 E: 0 U: 28  
a: 42 m: 40 s: 30

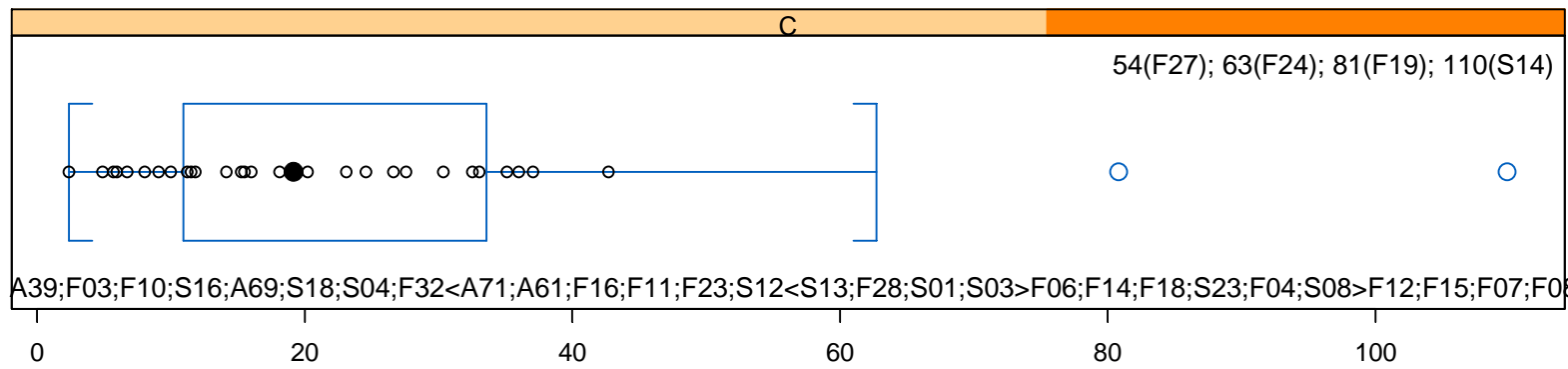
# Box plot of the standard deviations of samples A, B and C



O: 1,9 / U: 32



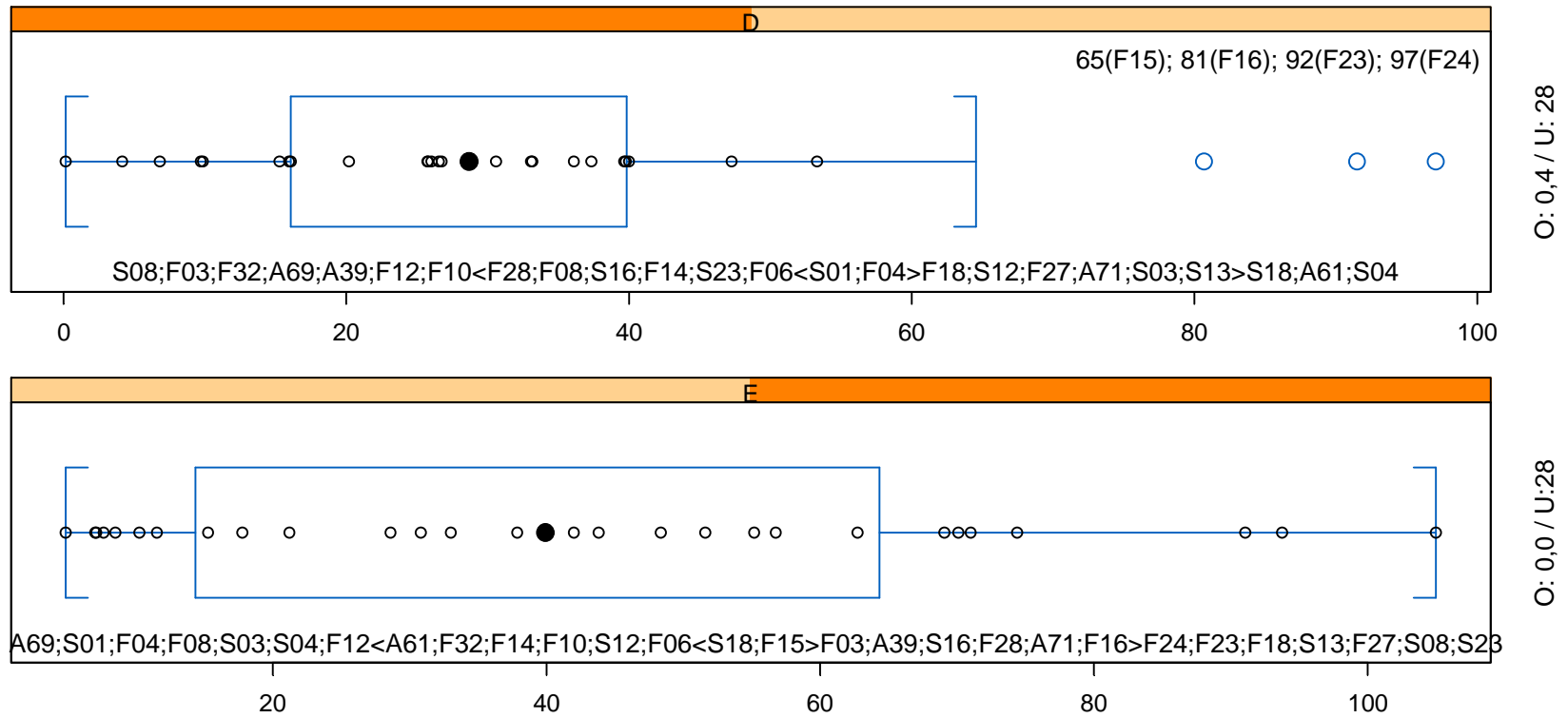
O: 1,6 / U: 29



O: 0,4 / U: 32

9 - Reactive Fe - stdev

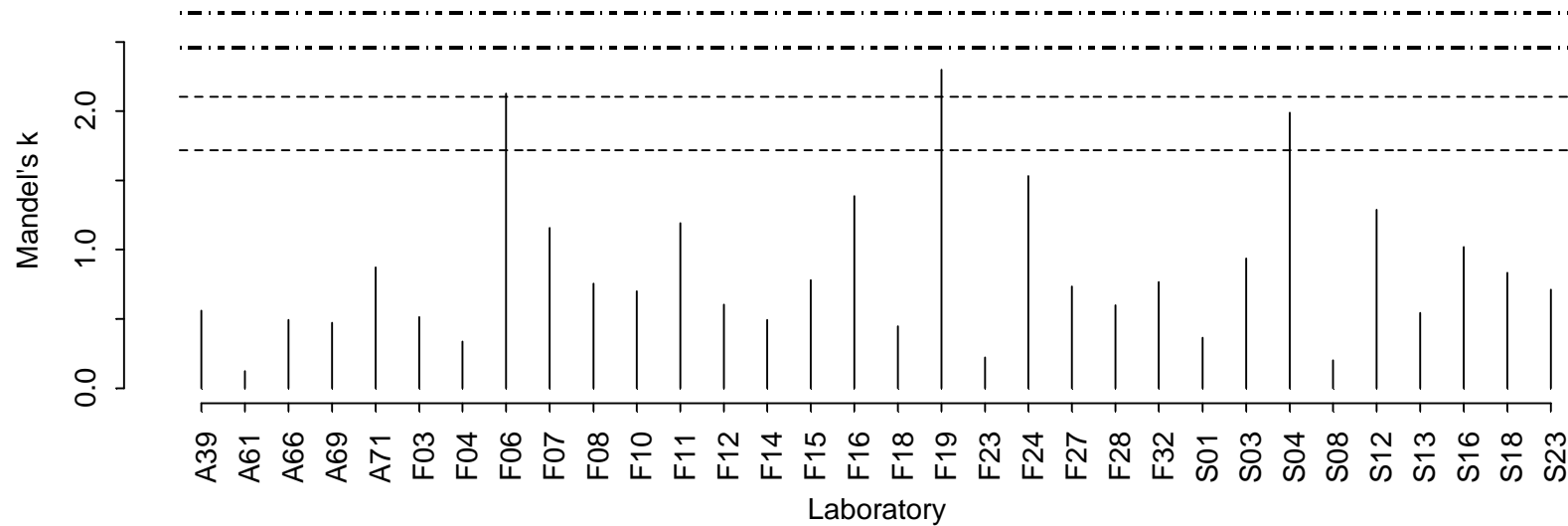
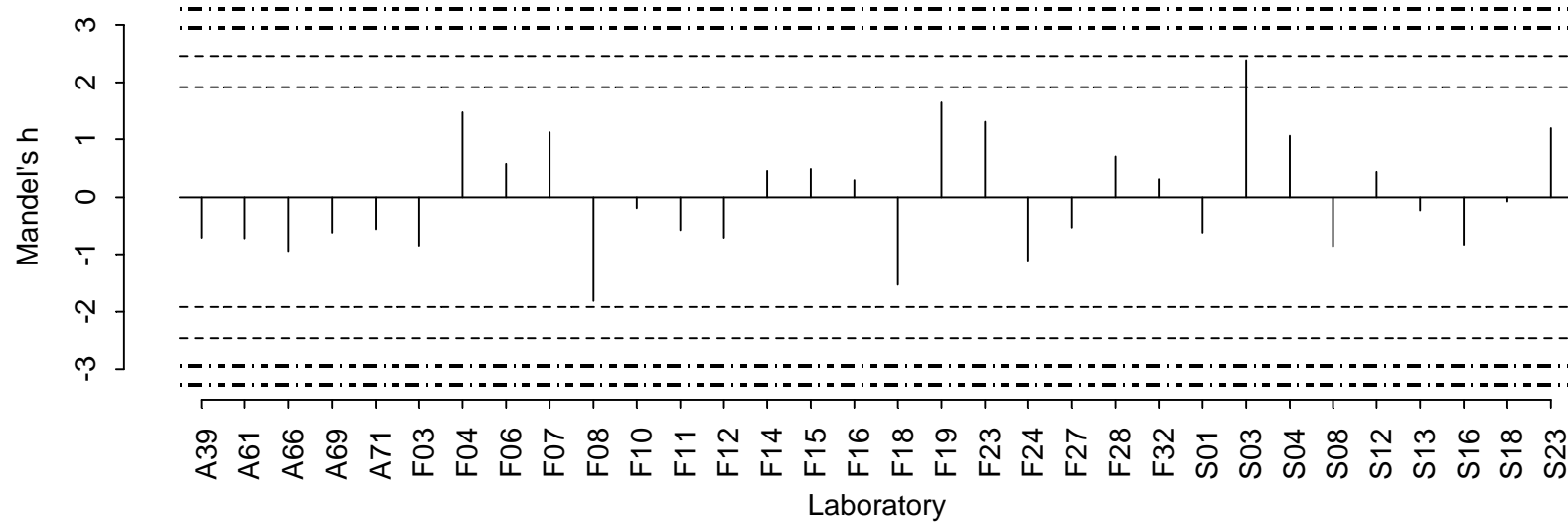
# Box plot of the standard deviations of samples D and E



# Mandel's h and k plots of sample A

## 9 - Reactive Fe - Sample A

Step:2; Nlab:32; Mgen:3270.013; Fval:88.6344; Pval:0; sRep:81.56635; sLab:440.8468; sRpr:448.3291; CV:13.71032

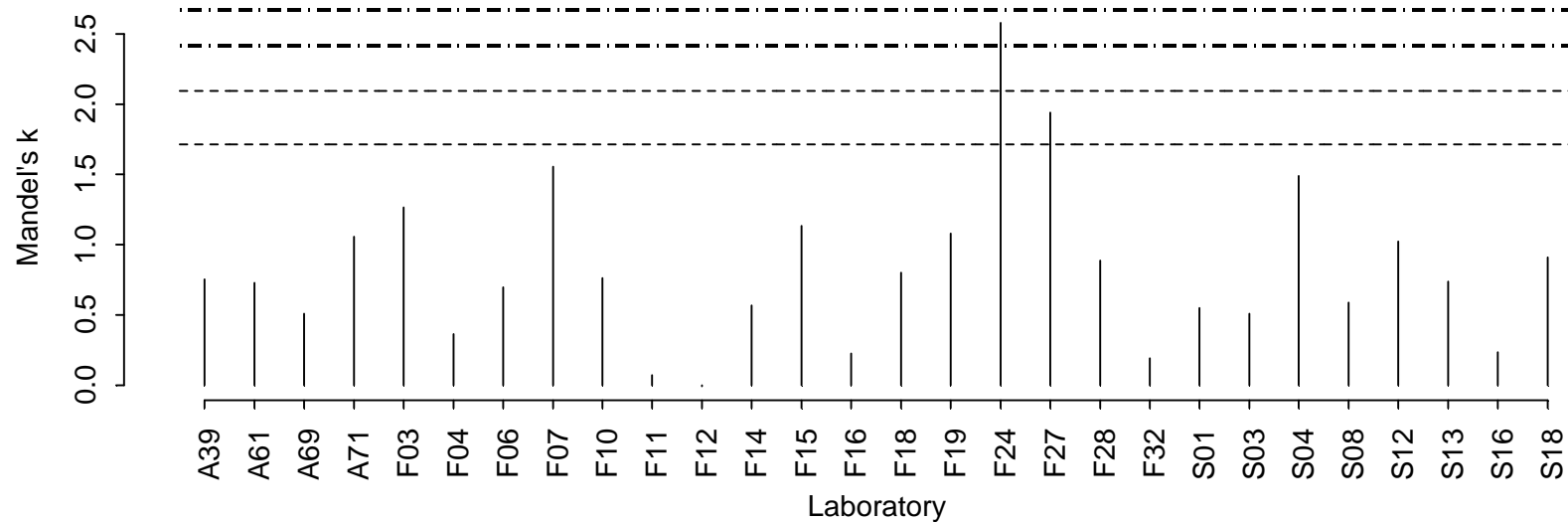
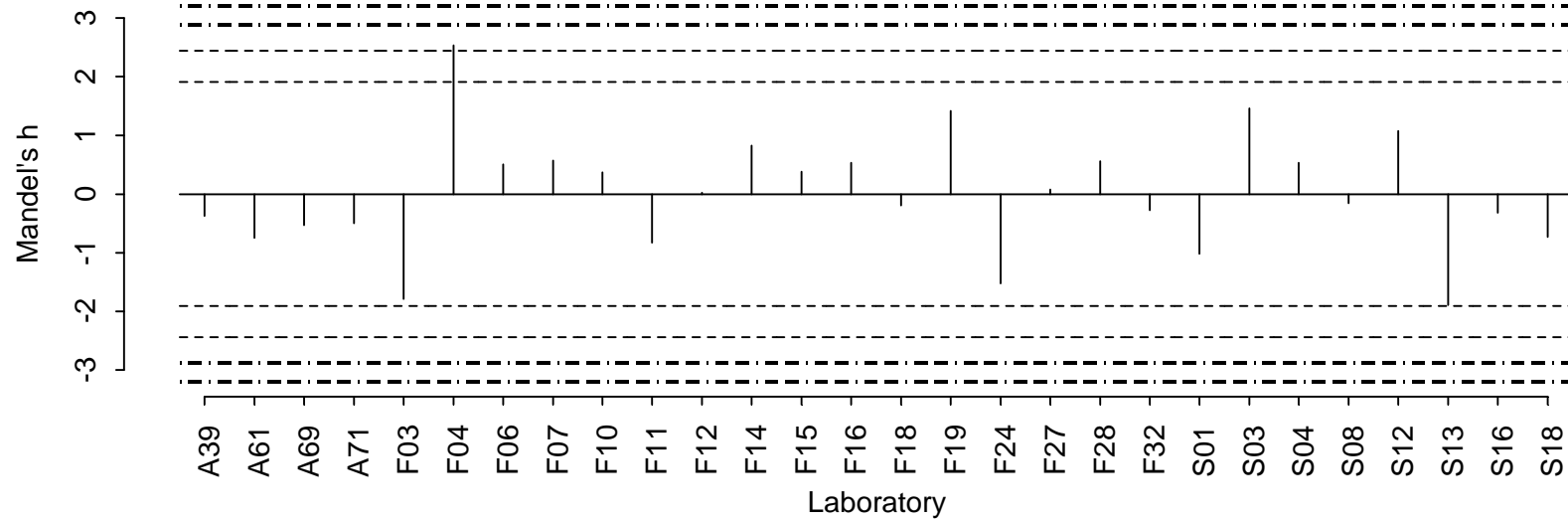


E: kS14

# Mandel's h and k plots of sample B

## 9 - Reactive Fe - Sample B

Step:3; Nlab:28; Mgen:339.1469; Fval:57.00407; Pval:0; sRep:7.914439; sLab:34.19552; sRpr:35.09946; CV:10.34934



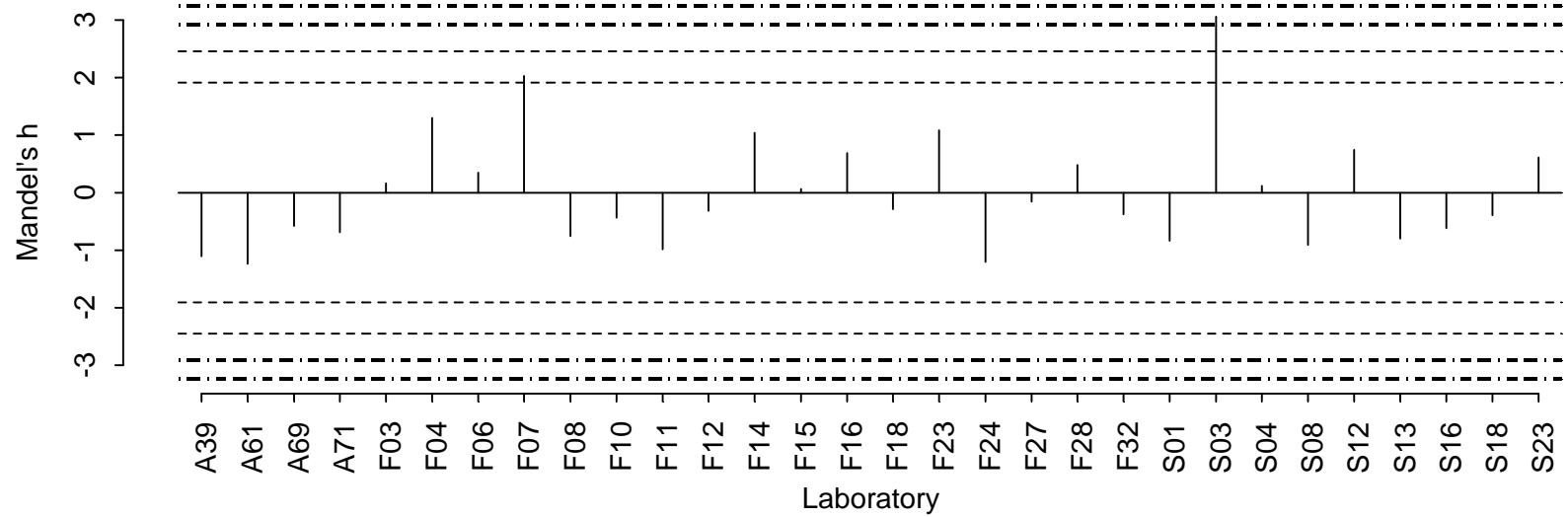
S: F24

E: hF08;kS23;hF23;kS14

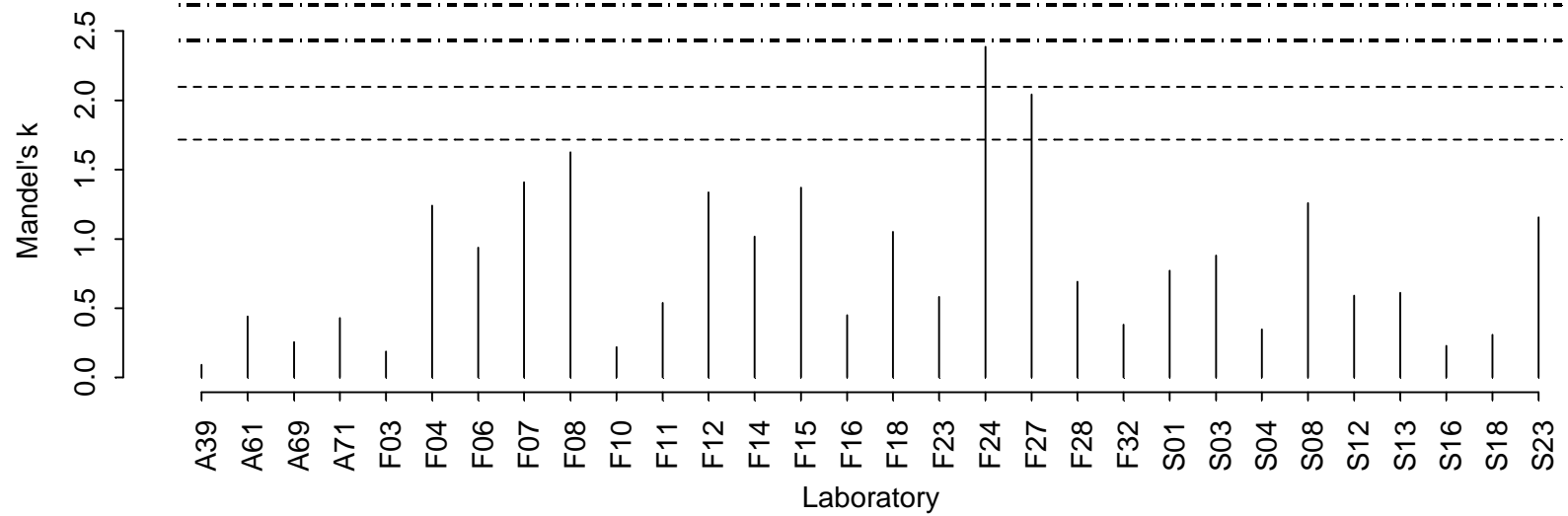
# Mandel's h and k plots of sample C

## 9 - Reactive Fe - Sample C

Step:3; Nlab:30; Mgen:865.1761; Fval:148.0377; Pval:0; sRep:26.26602; sLab:183.8857; sRpr:185.7522; CV:21.46987



S: S03

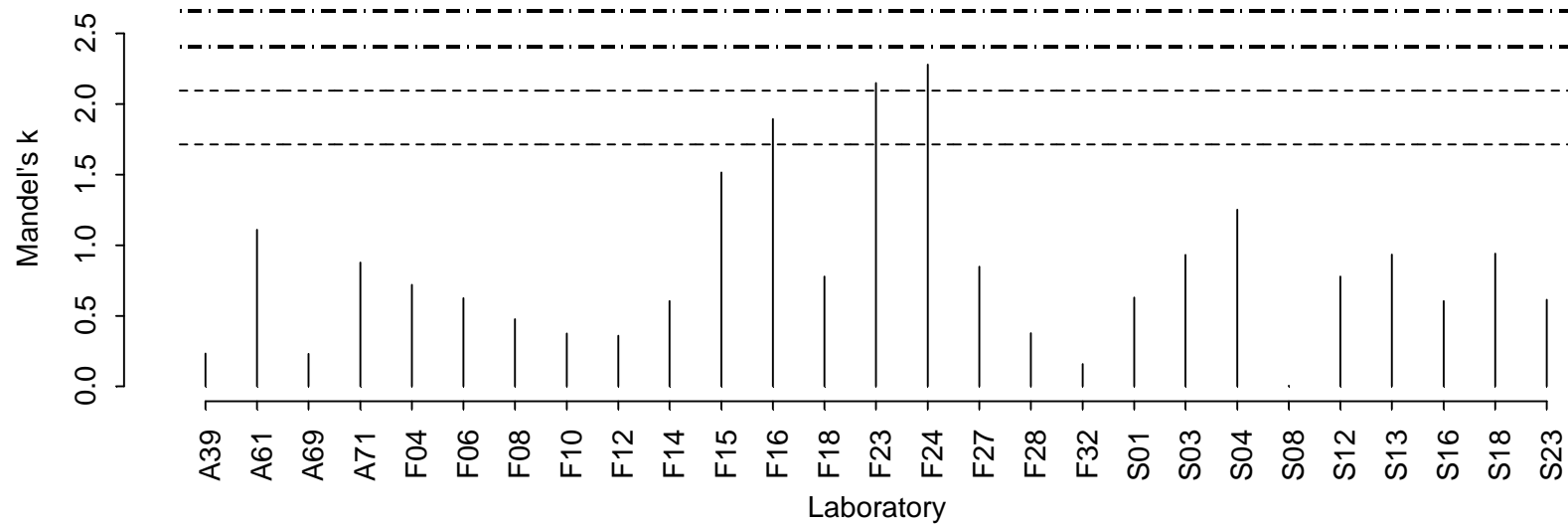
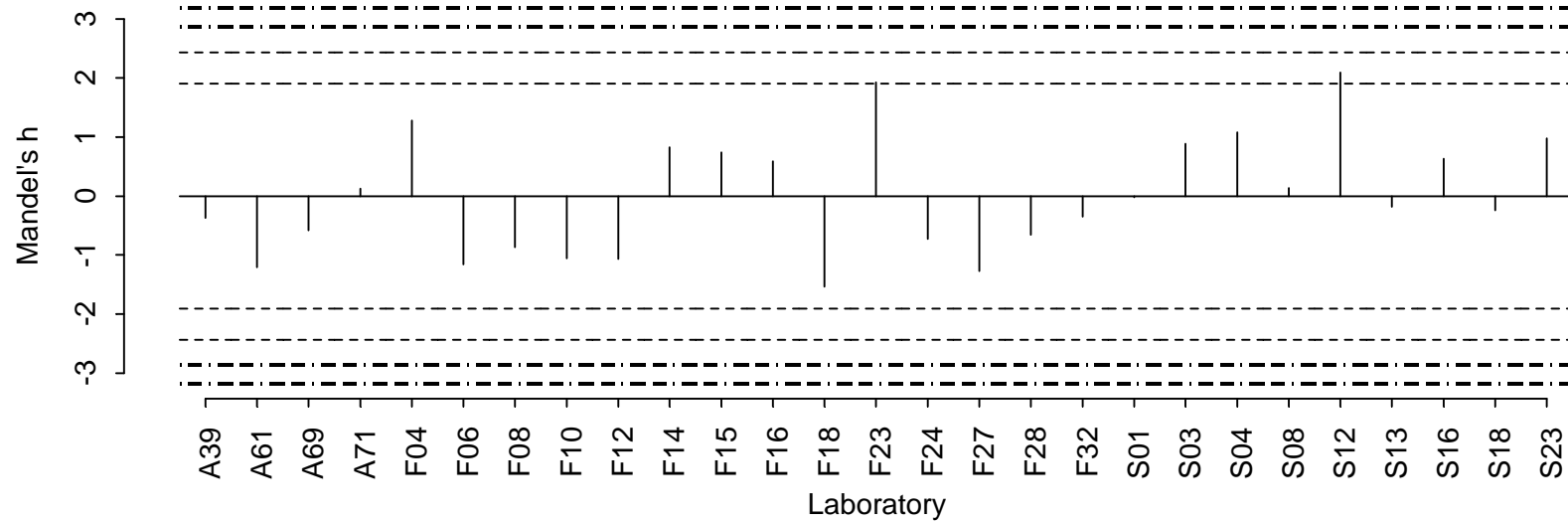


E: KS14;kF19

# Mandel's h and k plots of sample D

## 9 - Reactive Fe - Sample D

Step:2; Nlab:27; Mgen:1296.229; Fval:36.84714; Pval:0; sRep:42.58127; sLab:147.1923; sRpr:153.2278; CV:11.82104



E: hF03

# Mandel's h and k plots of sample E

## 9 - Reactive Fe - Sample E

Step:1; Nlab:28; Mgen:2400.999; Fval:69.83758; Pval:0; sRep:51.07471; sLab:244.6573; sRpr:249.9316; CV:10.40948

