Sequence of Commands used in R for LSMeans analysis:

install.packages("lsmeans")

library(lsmeans)

data=read.table("location of your data/data1.txt",header=T)

replicate=as.factor(data$replicate)

condition=as.factor(data$condition)

measure=data$measure

fit=lm(measure~replicate+condition)

LSMeans=lsmeans(fit,"condition") #Calculate the adjustment means for the different conditions

LSMeans

Comparisons=contrast(LSMeans, "revpairwise") #Conducts pairwise comparisons between conditions

Comparisons