**READ ME for HRM plotting**

1. System requirements
R-Studio version 1.1.447 on macOS High Sierra version 10.13.4

2. Installation guide
Install R-Studio according to instructions.

3. Demo
- Open *Shiny APP (melting curve plotting).R* with R-Studio.
- Run App (All necessary R packages will be loaded at the beginning of the script if they are installed. If necessary packages are not already installed, first run the following command for all necessary packages: install.packages("*package name*")).
- Select "Demo data" folder with the data to be analyzed in the pop-up window.
- Select the appropriate settings in the new pop-up window for your data analysis (single or average data, samples to be displayed, minimum and maximum of temperature range to be displayed, plot with Tm or Tm line indicated).
- Download melting curve (derivative reporter or normalized fluorescence intensity).
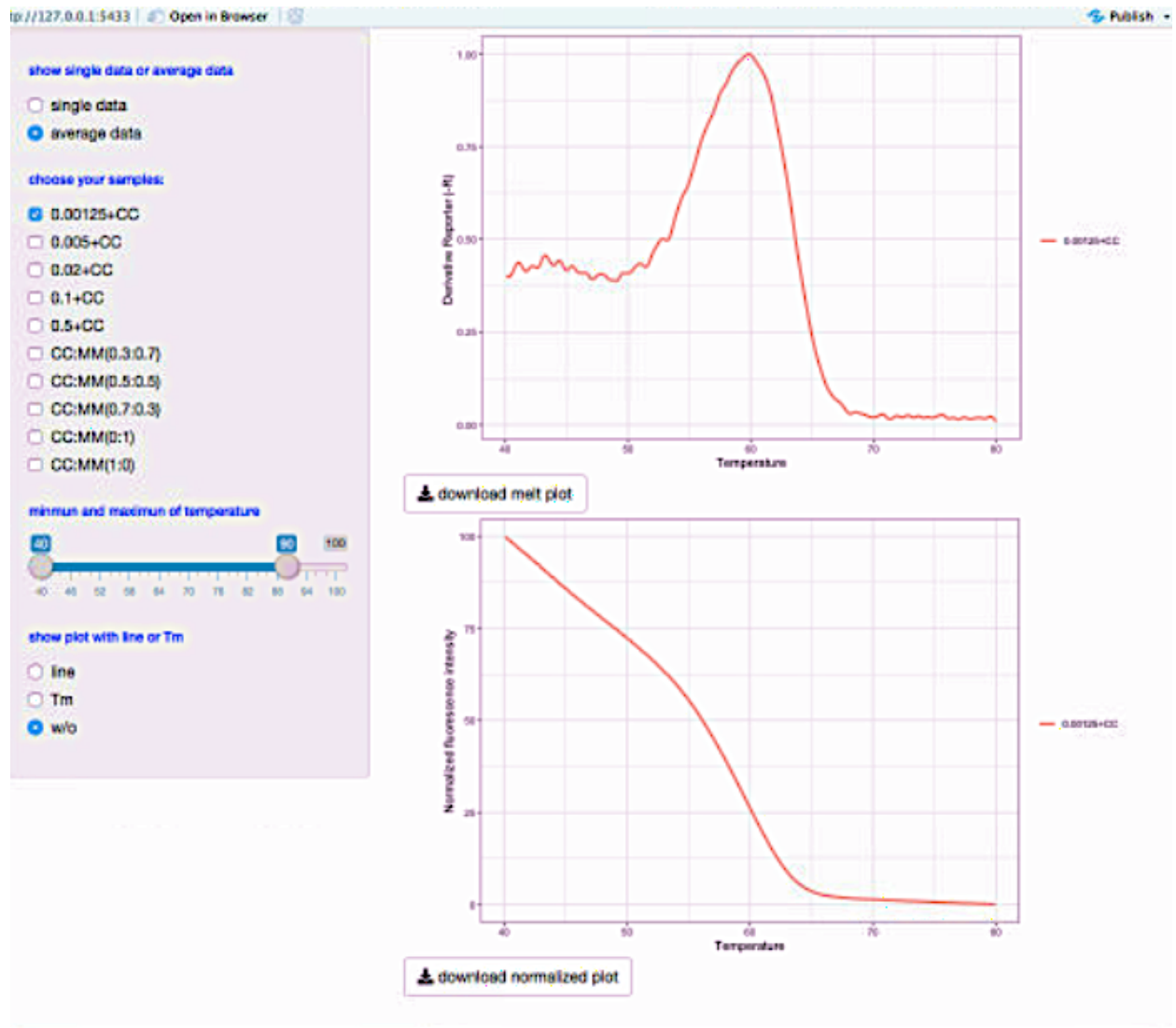
Run script and changes in parameters -> few seconds.

4. Instruction for use

- The following text files (.txt) from the StepONE Software are needed:
  - MeltRegionDerivativeData.txt and
  - Multicomponent.txt.
- Create a CSV file (.csv), name it as "sample", create two columns named "well" and "name" and label each well with the corresponding sample name.

- Copy MeltRegionDerivativeData.txt, Multicomponent.txt and sample.csv into one folder.
- Run script as described for Demo data.