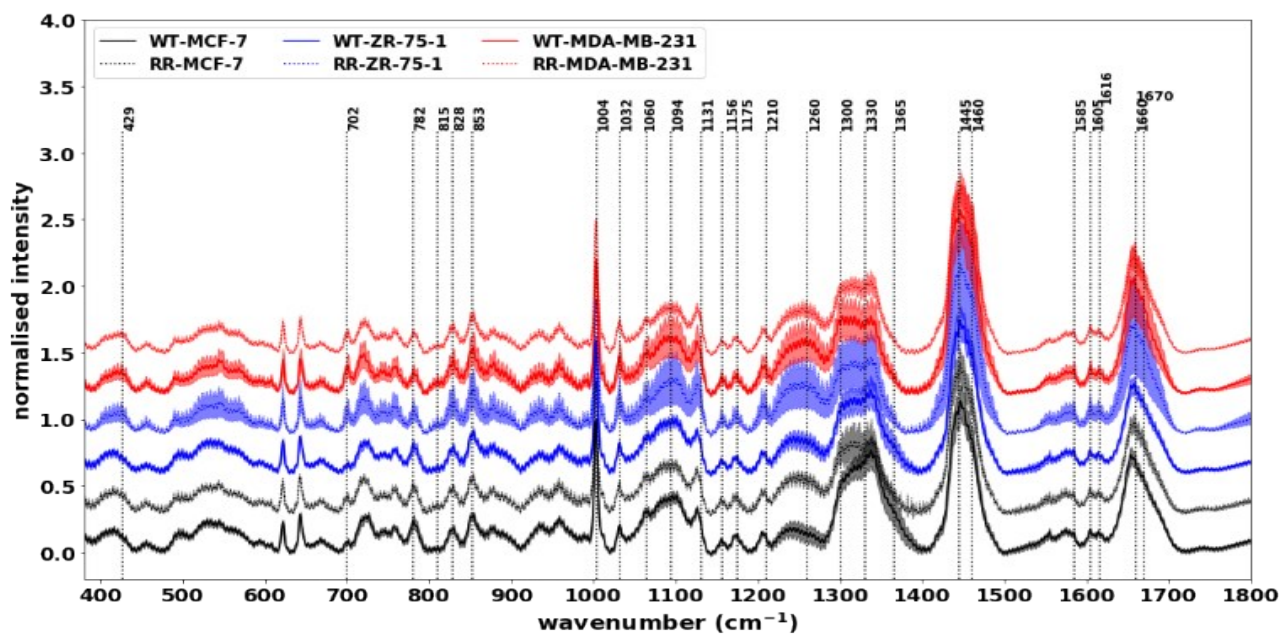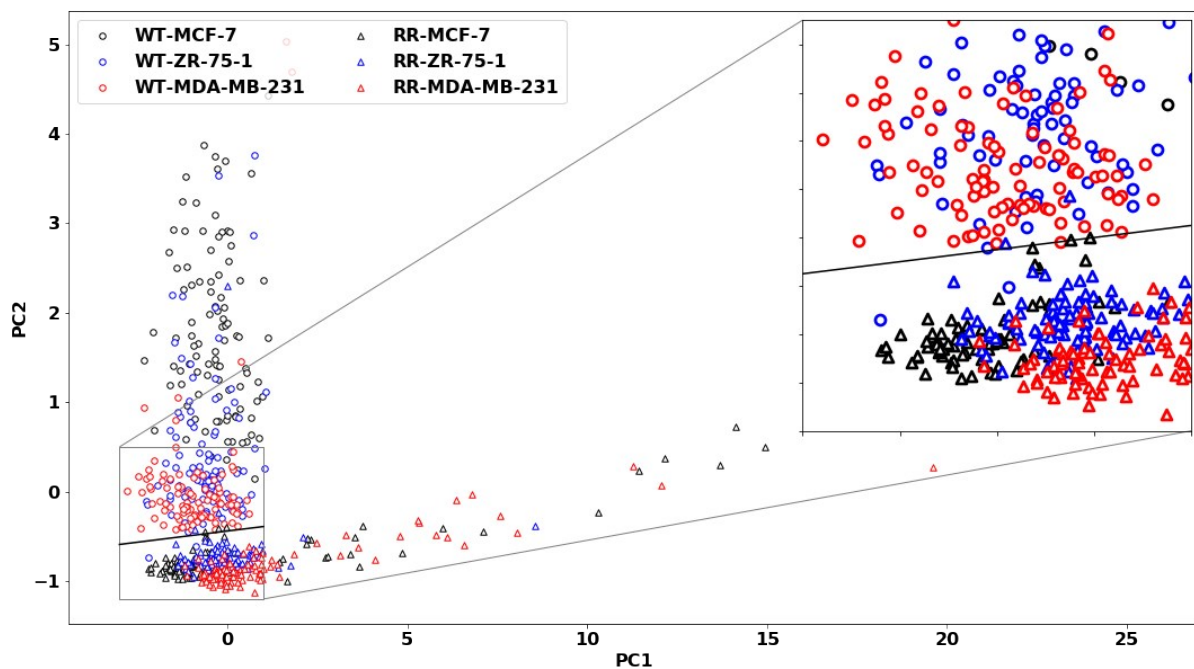**Supplementary figures**

S. Fig. 1 Average Raman spectra for wild-type (WT MCF-7, WT MDA-MB-231, and WT ZR-75-1) and radioresistant (RR MCF-7, RR MDA-MB-231, and RR ZR-75-1) cell lines.

S. Fig. 2 Principal component analysis (PCA) scatter plot for Raman spectra of wild-type (WT) and radioresistant (RR) breast cancer cells. 99.49% of the samples are classified correctly as either wild-type (circles) or radioresistant (triangles) as shown by the dividing line.