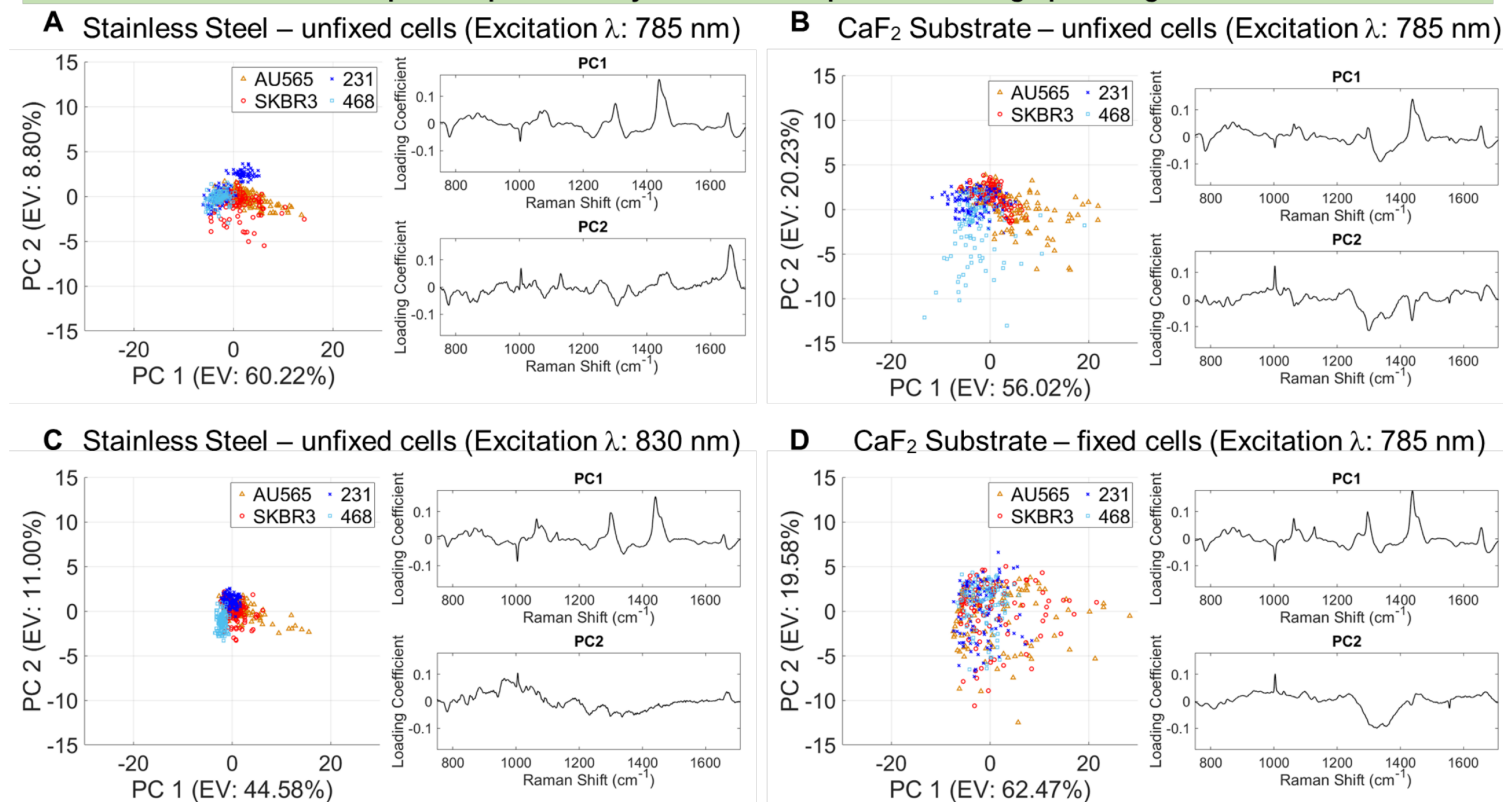


Principal Component Analysis of Raman Spectra from Fingerprint Region



Supplementary Figure 2: Principal Component Analysis performed on fingerprint Raman spectra obtained from (A) unfixed cells on stainless steel at 785 nm excitation, (B) unfixed cells on CaF_2 substrate at 785 nm excitation, (C) unfixed cells on CaF_2 substrate at 830 nm excitation and (D) fixed cells on CaF_2 substrate at 785 nm excitation. Across all the four experimental conditions described, Principal Component 1 (PC 1) was consistently characterized by spectral peaks related to lipids at 1135 cm^{-1} , 1301 cm^{-1} , 1440 cm^{-1} and 1656 cm^{-1} . PC1 contributed to 44.6% - 62.5% of the variances between the breast cancer cells investigated in this study.