

Supporting Information

Design of a universal biointerface for sensitive, selective, and multiplex detection of biomarkers using surface plasmon resonance imaging

^aArghavan Shabani and ^{*a,b}Maryam Tabrizian

^aBiomedical Engineering Department and ^bFaculty of Dentistry, McGill University, 3775 University Street,
Montreal, Quebec, Canada H3A 2B4

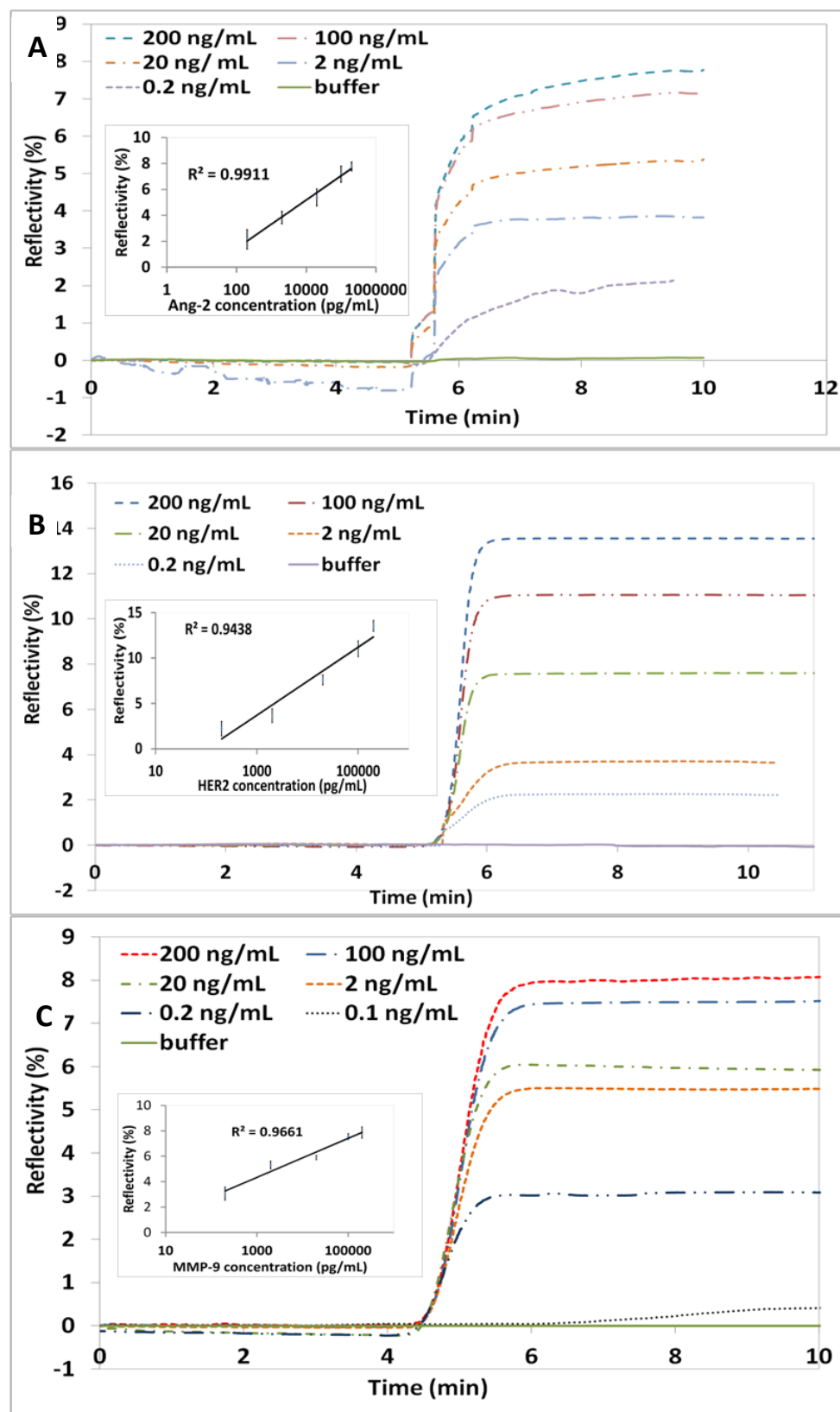


Figure S1. SPRi sensogram for direct detection different biomarkers at various concentrations, demonstrating a LOD of 200 pg/mL; The inset is calibration curve indicating correlation between change in reflectivity and biomarker concentrations. The error bar demonstrates the relative standard deviation for the three replicates; (A) Ang-2 (B) HER2 (C) MMP-9.

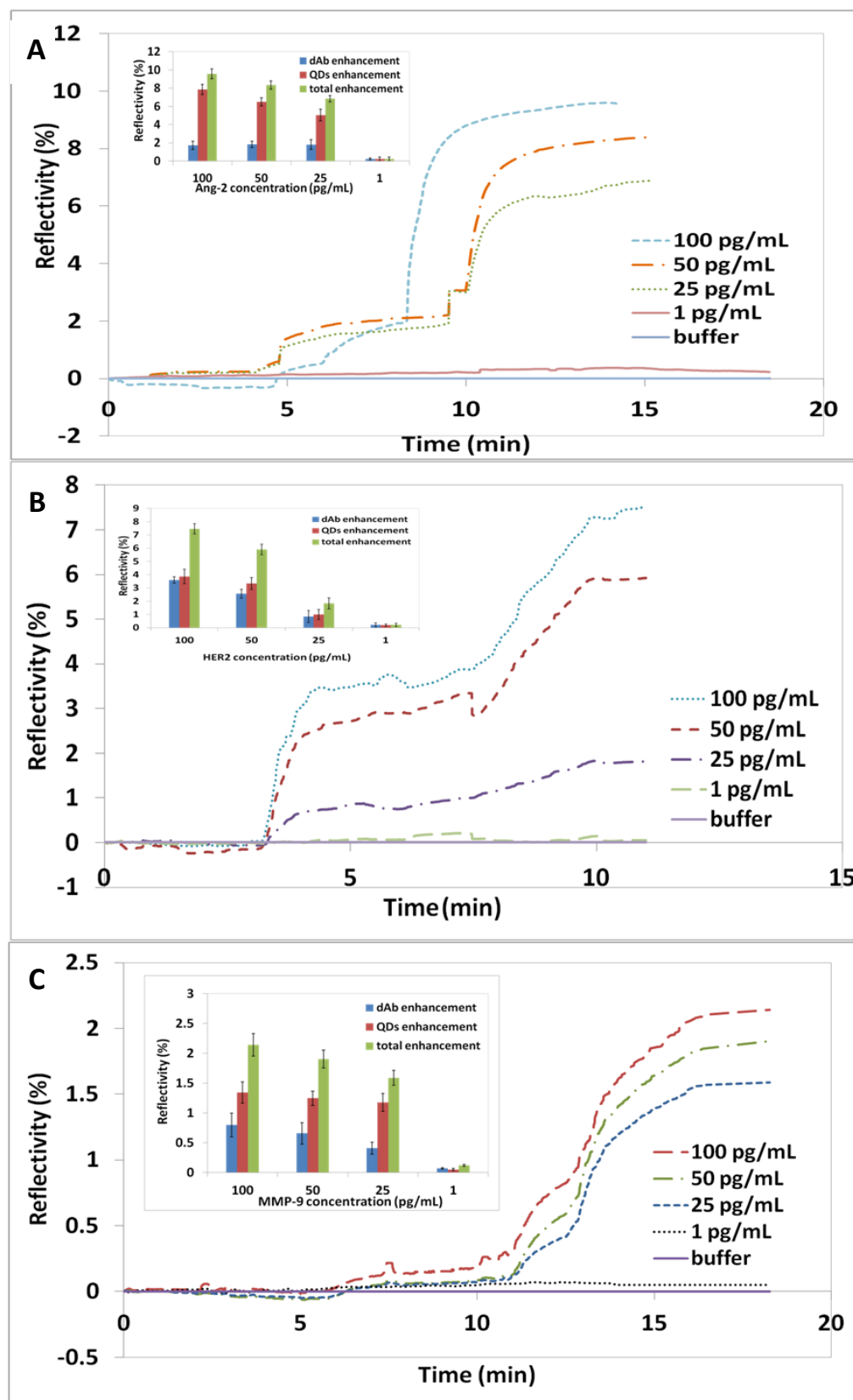


Figure S2. SPRi signal amplification of protein biomarkers using biotinylated detection antibody and streptavidin-conjugated QD₈₀₀ indicating a LOD of 25 pg/mL; The inset is the amount of signal enhancement with relative standard deviation; (A) Ang-2 (B) HER2 (C) MMP-9.