



Supplementary Figure 4 | SERS or SHINERS spectra of PATP molecules in different sandwich configurations. **(a)** Au/PATP/Au NPs, **(b)** ZnO nanorods/PATP/Au NPs, **(c)** Au/PATP/Au@SiO₂ NPs, and **(d)** ZnO nanorods/PATP/Au@SiO₂ NPs.