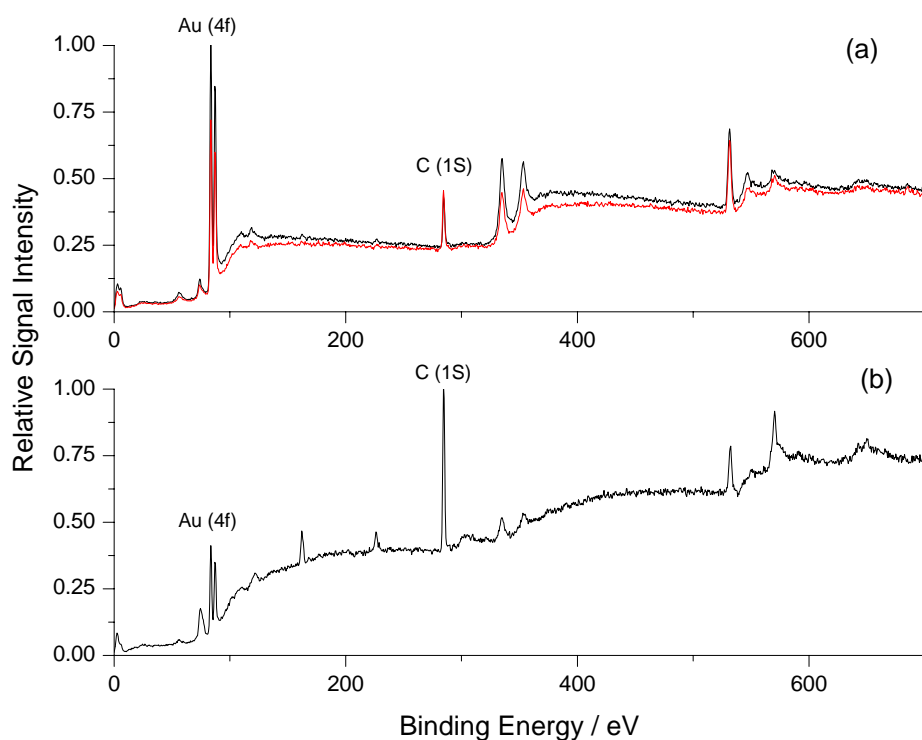


Supporting Information – XPS spectra

Peak-normalized XPS spectra of C₆H₁₃-SAMs. (a) as prepared, freshly out of solution (red line), and in the vacuum chamber at the base pressure for 2.5 hours (black line); (b) exposed to NO₂ in reaction chamber for ~ 1 hr. The spectra show that the SAM composition is effectively unchanged, relative to a freshly prepared sample, through being in vacuum with no NO₂ present. Exposure to NO₂ results in obvious alterations to the composition, with the C (1s) peak now dominating over the Au (4f) peak.