Supplementary Figure S1. Transmission infra red spectrum of a fragment of a thick (~200 um) polybase film pressed into a KBr disc for support. The methacrylate carbonyl peak is at ~1738 cm\(^{-1}\), and peaks are seen for water at ~3420 cm\(^{-1}\) and ~1640 cm\(^{-1}\). The carbonyl peak is slightly shifted from that in the thin film ATR measurements, in aqueous solution, possibly as a consequence of the drier environment of the KBr disc.
Supplementary Figure S2. Deconvolution (red trace) of the ATR-FTIR absorbance for the polybase brush at pD 5.01 (black trace) using as basis functions the envelope of the spectrum acquired for the brush at pD 10.86 (blue trace) together with the same envelope shifted to lower wavenumbers by 14 cm\(^{-1}\) (green trace).