

Mono- and Dinuclear Silica-Supported Titanium (IV) Complexes and the Effect of TiOTi Connectivity on Reactivity

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Supplementary Material. Figures S1-S3 and S5-S7 containing IR and ^{13}C CP/MAS NMR spectra analogous to those shown in the published paper, but on Silica-200.

Figure S1: ^{13}C CP/MAS NMR spectra of silica-200 treated with a) $\text{Ti}(\text{O}^i\text{Pr})_4$, b) $\text{Ti}(\text{NEt}_2)_4$, followed by desorption of unreacted starting material and evacuation of volatile products. Spin rate 4kHz.

Figure S2: In situ IR difference spectra of self-supporting disk of silica-200, treated under conditions identical to those of Figure 2.

Figure S3: In situ IR difference spectra of self-supporting disk of silica-200, treated under conditions identical to those of Figure 3.

Figure S5: In situ IR difference spectra of self-supporting disk of silica-200, treated under conditions identical to those of Figure 5.

Figure S6: ^{13}C CP/MAS NMR spectra of silica-200 modified with $\text{Ti}(\text{NEt}_2)_4$, followed by a) *tert*-butanol; or b) 2-propanol. In each case, unreacted reagents were removed by evacuation before the spectrum was recorded. Spin rate 4kHz.

Figure S7: In situ IR difference spectra of self-supporting disk of silica-200, treated under conditions identical to those of Figure 7.

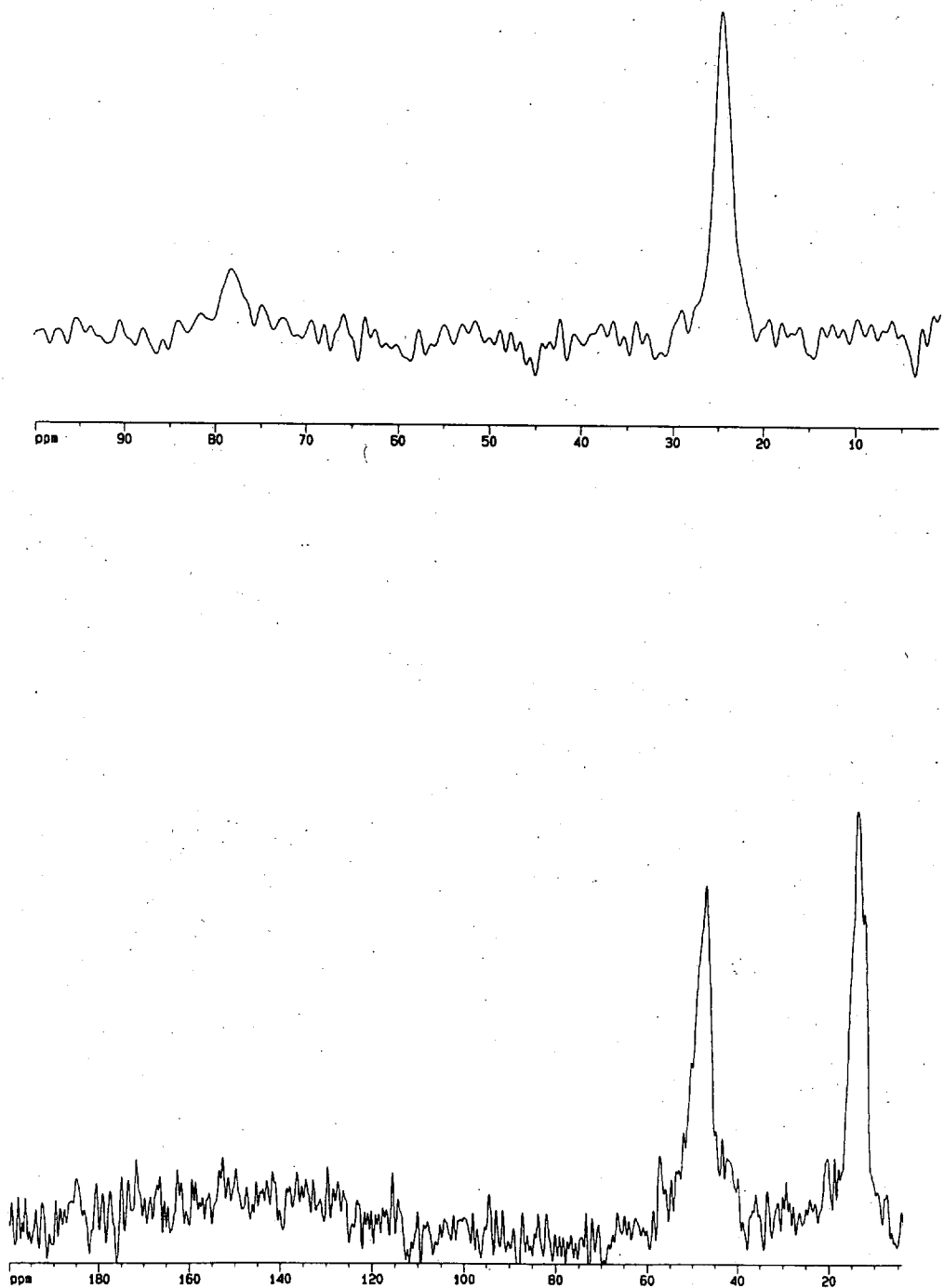


Figure S1

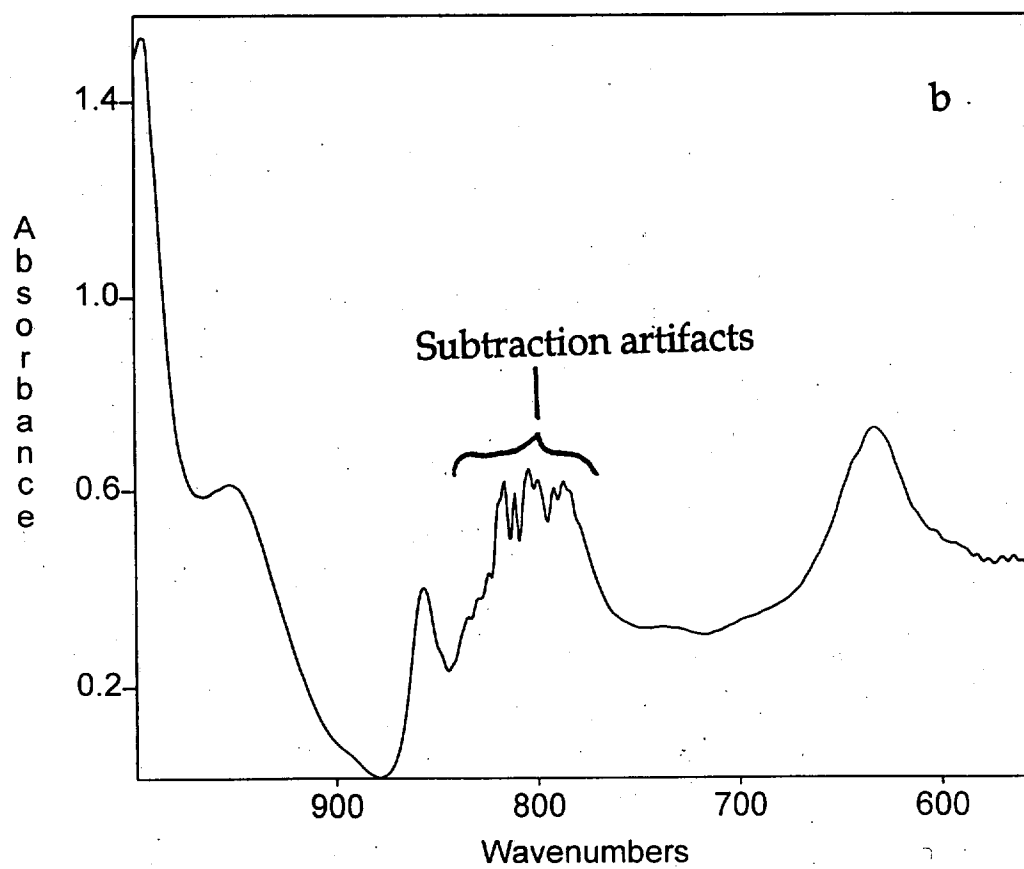
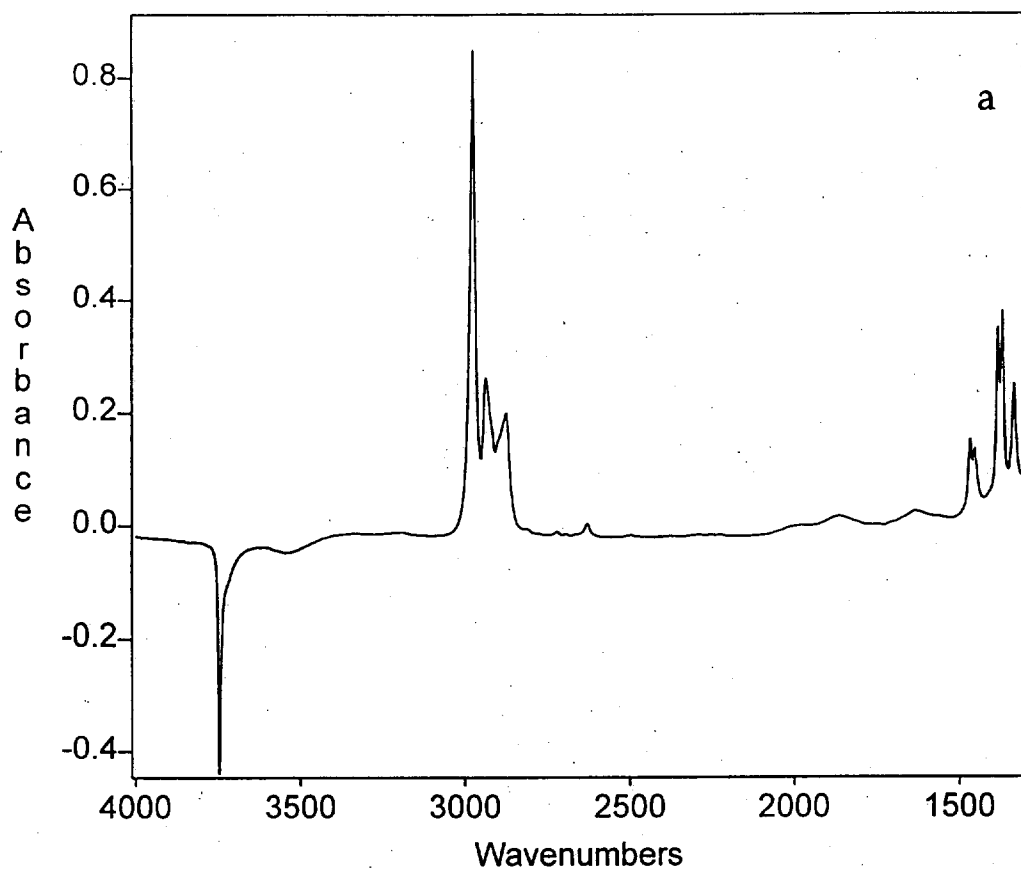


Figure S2

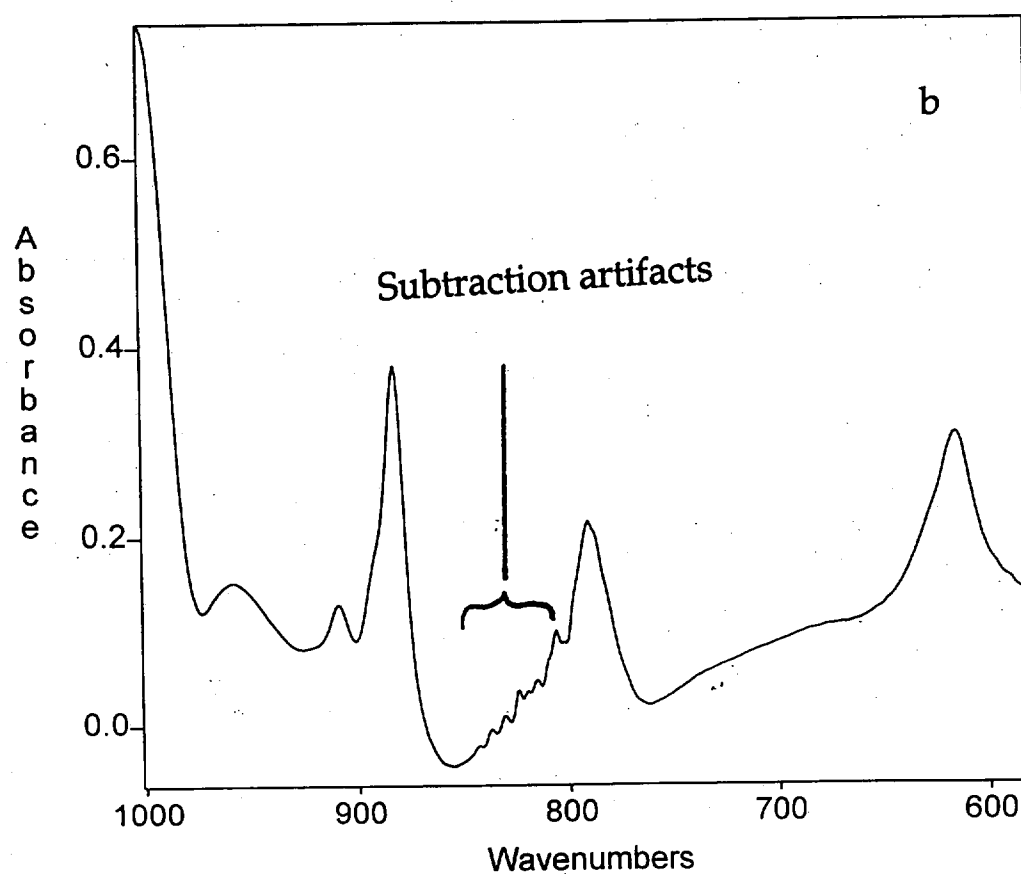
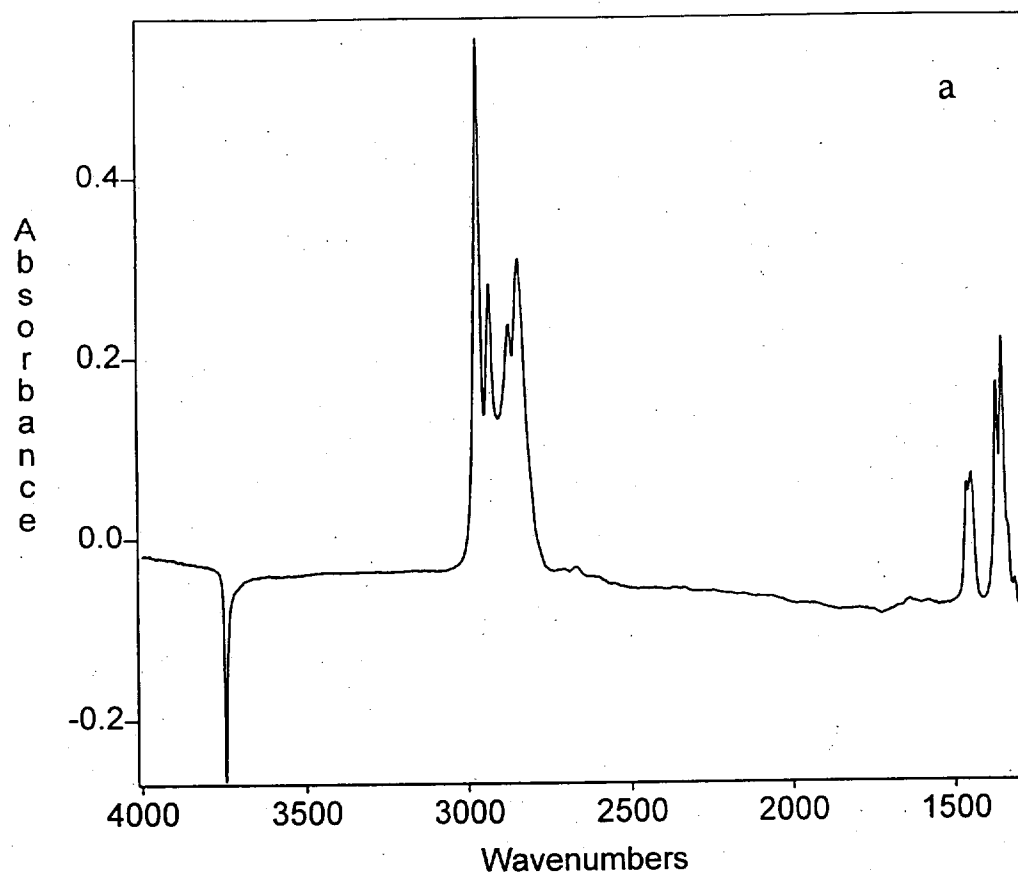


Figure S3

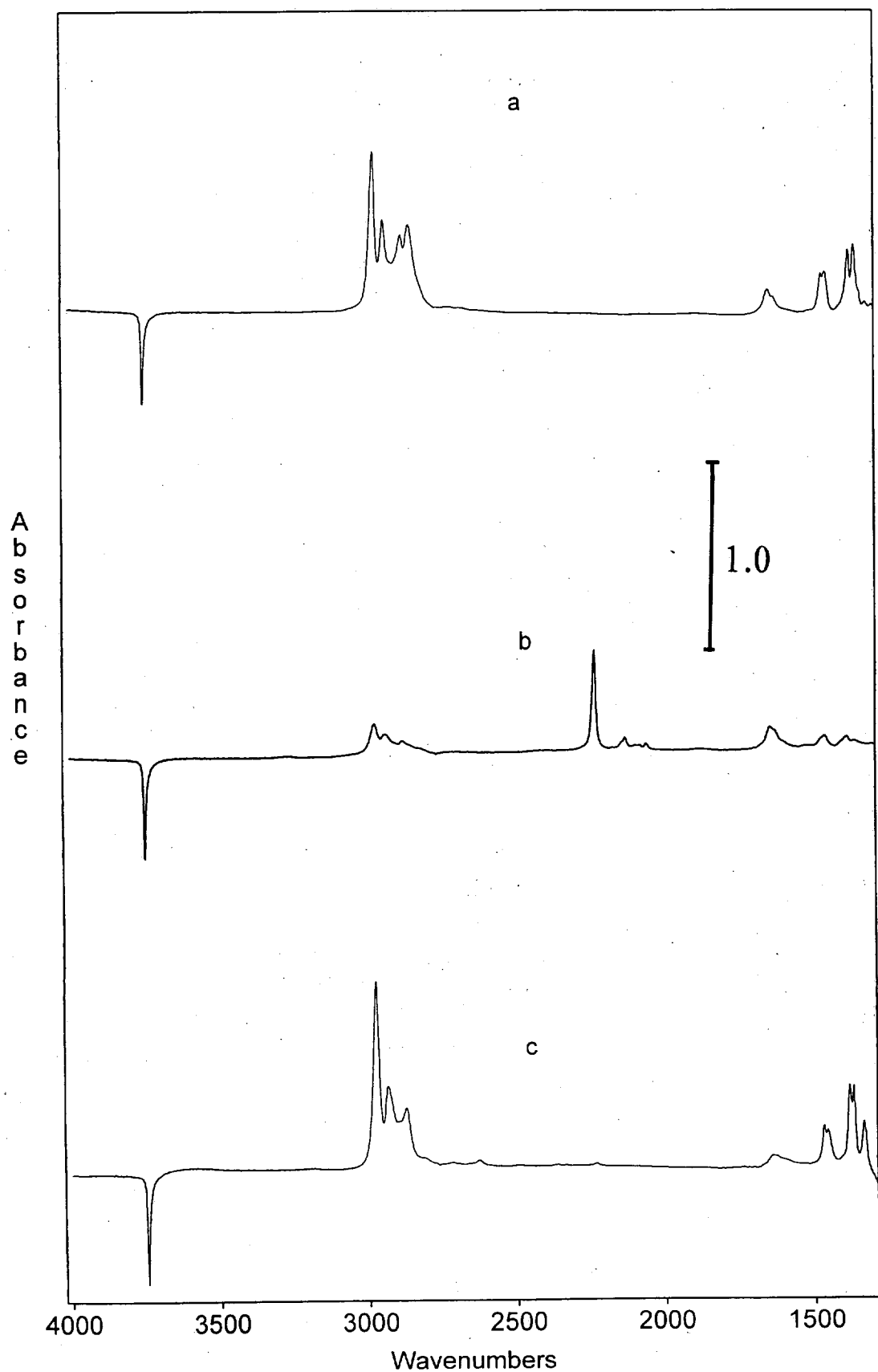


Figure S5

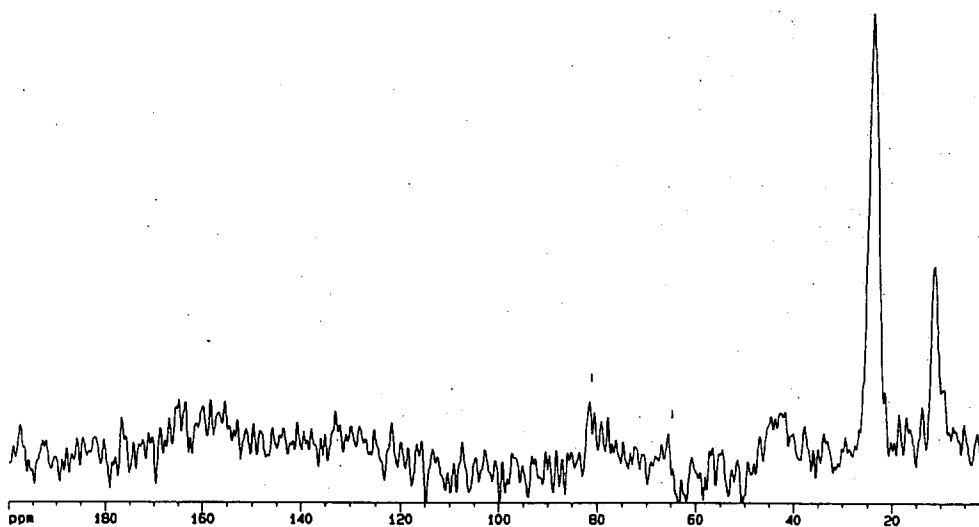
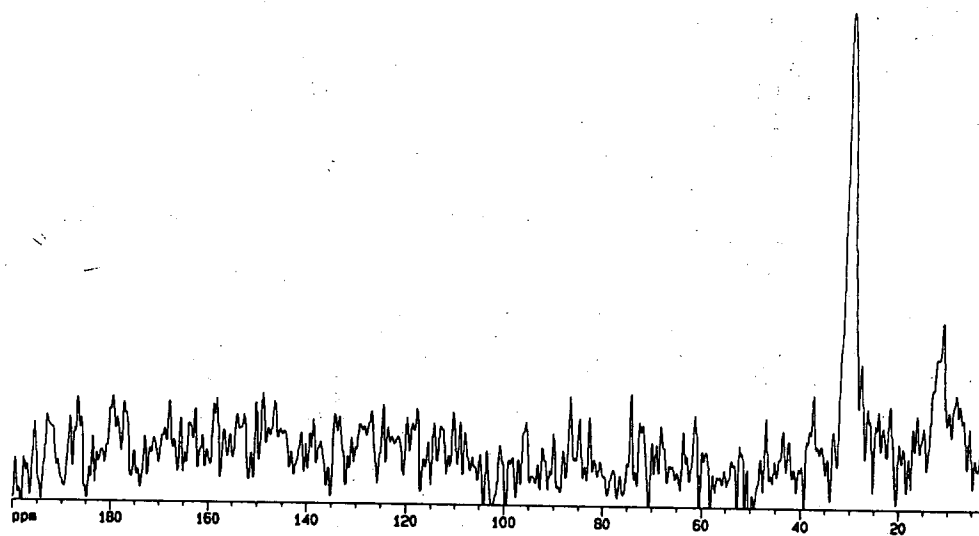


Figure S6

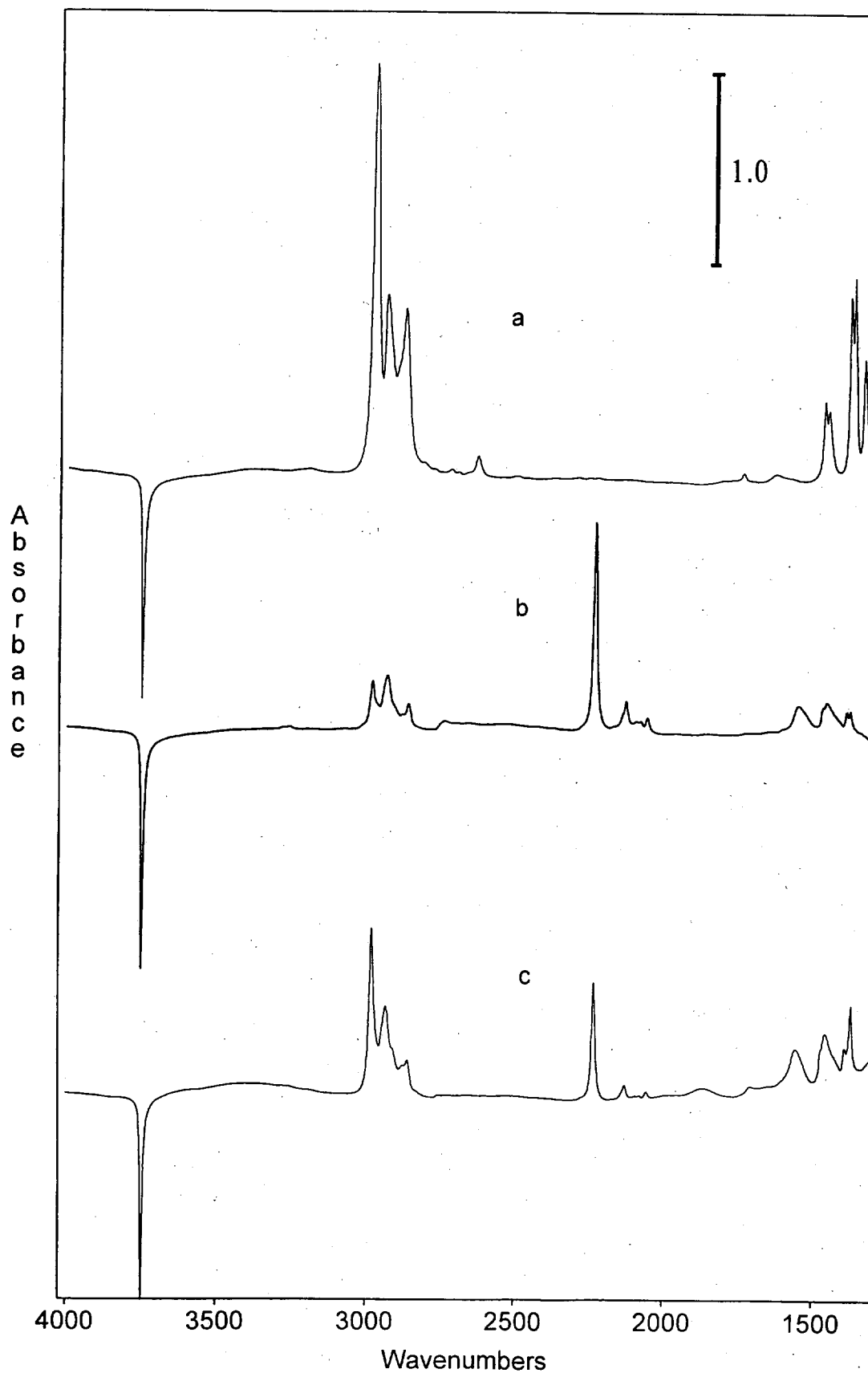


Figure S7