

## **Supplementary Materials**

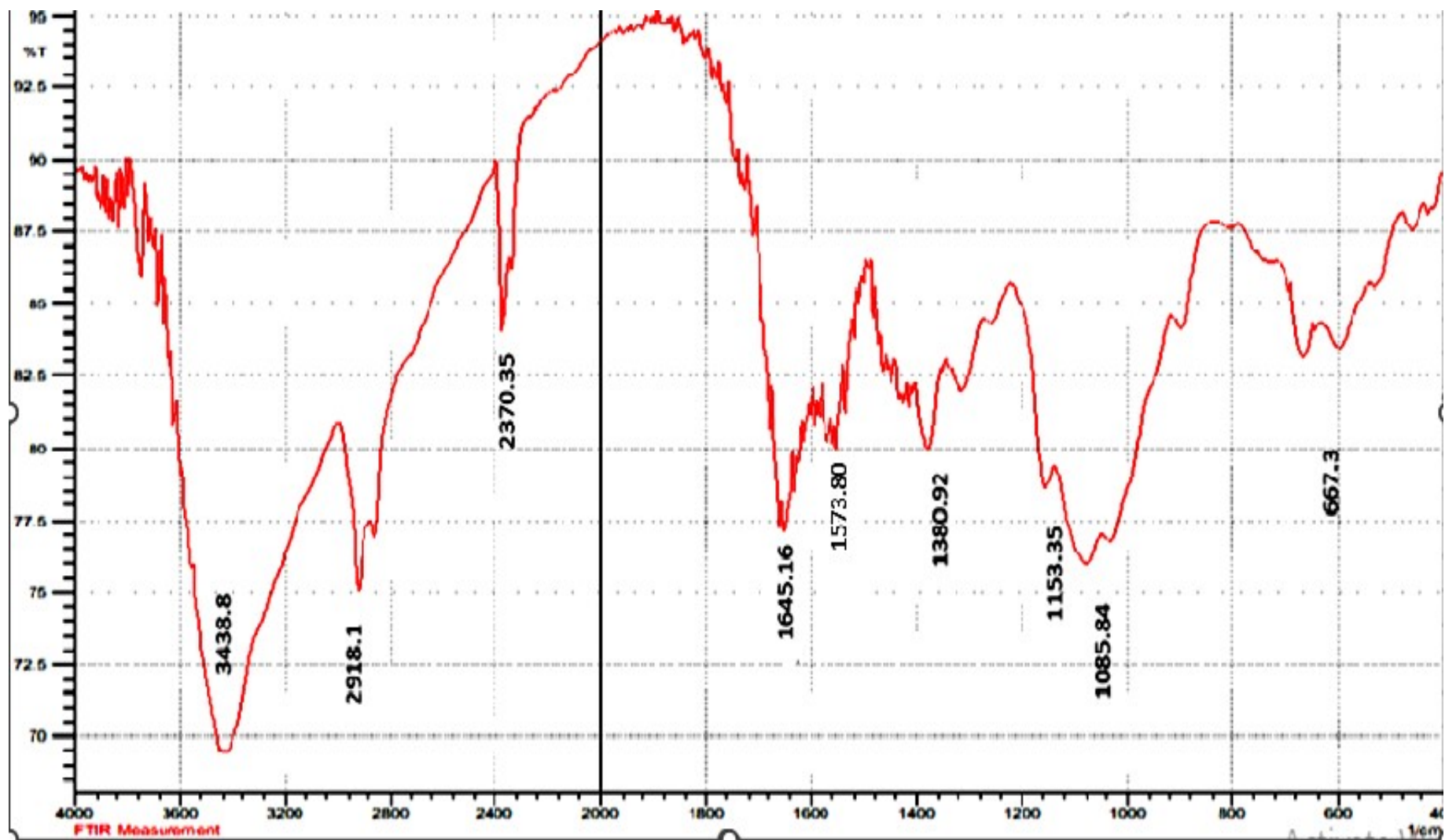
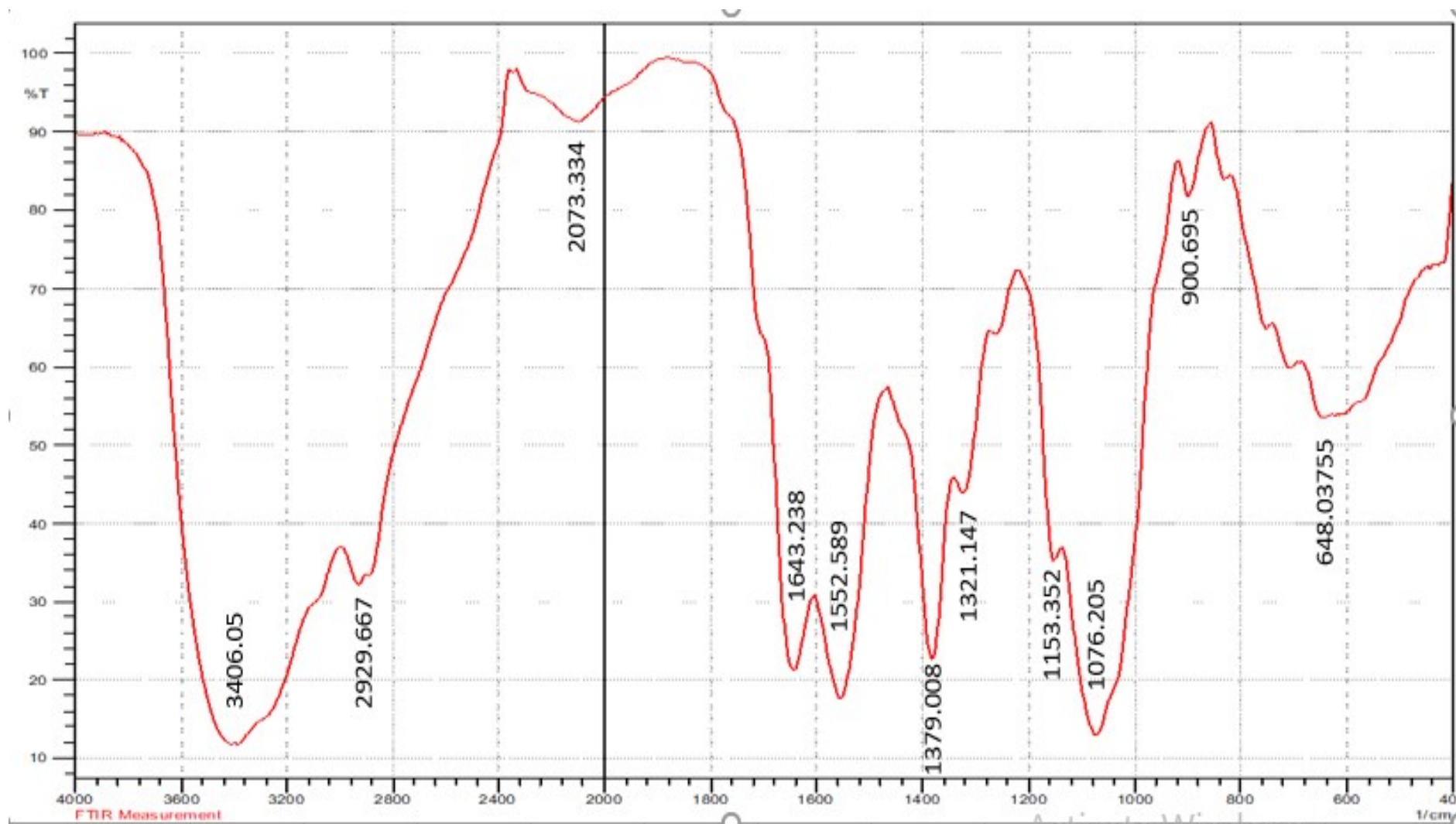
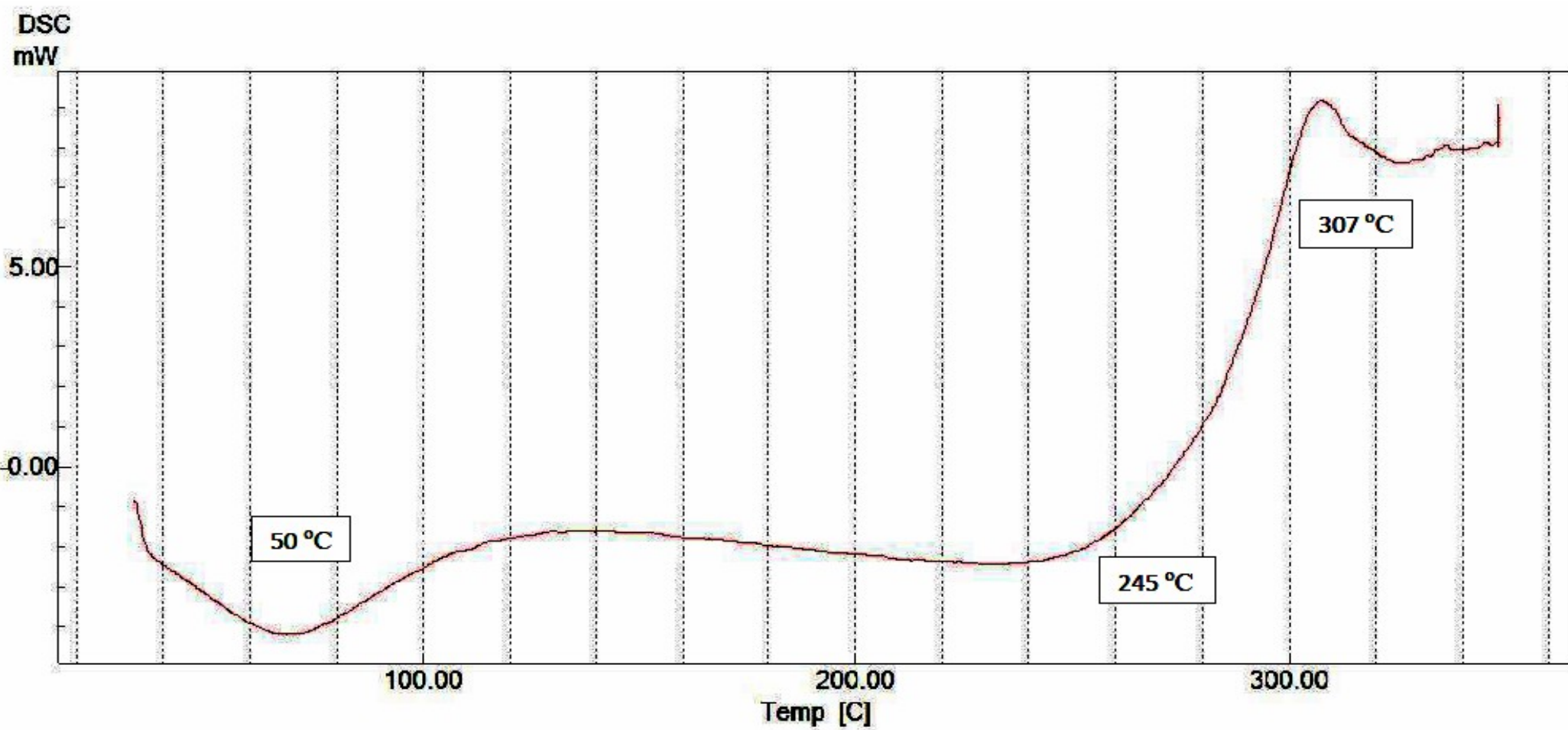


Figure S1: Infrared of Chitosan (C).



**Figure S2:** Infrared of Chitosan Phthalate (CP).



**Figure S3:** DSC of Chitosan (C).

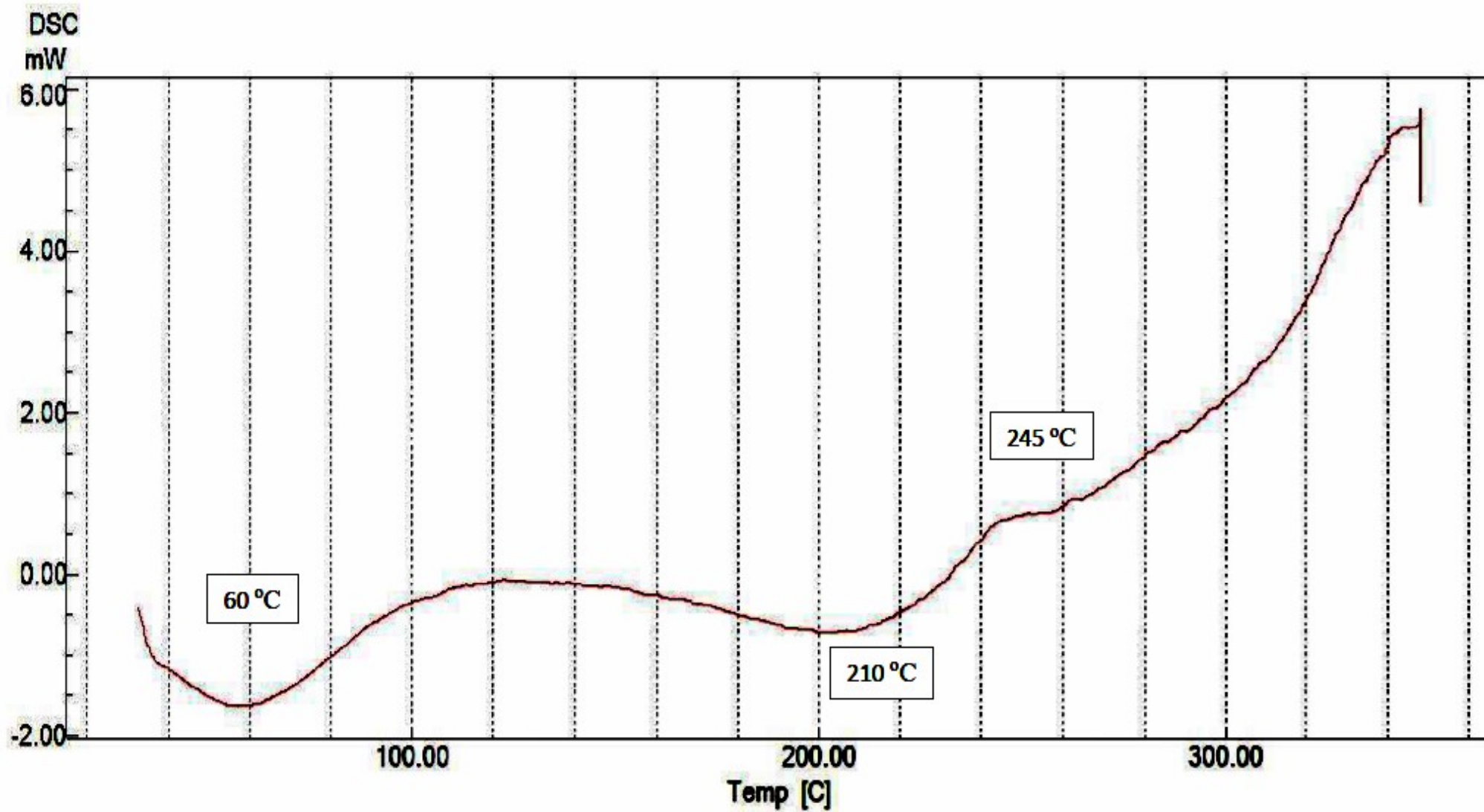
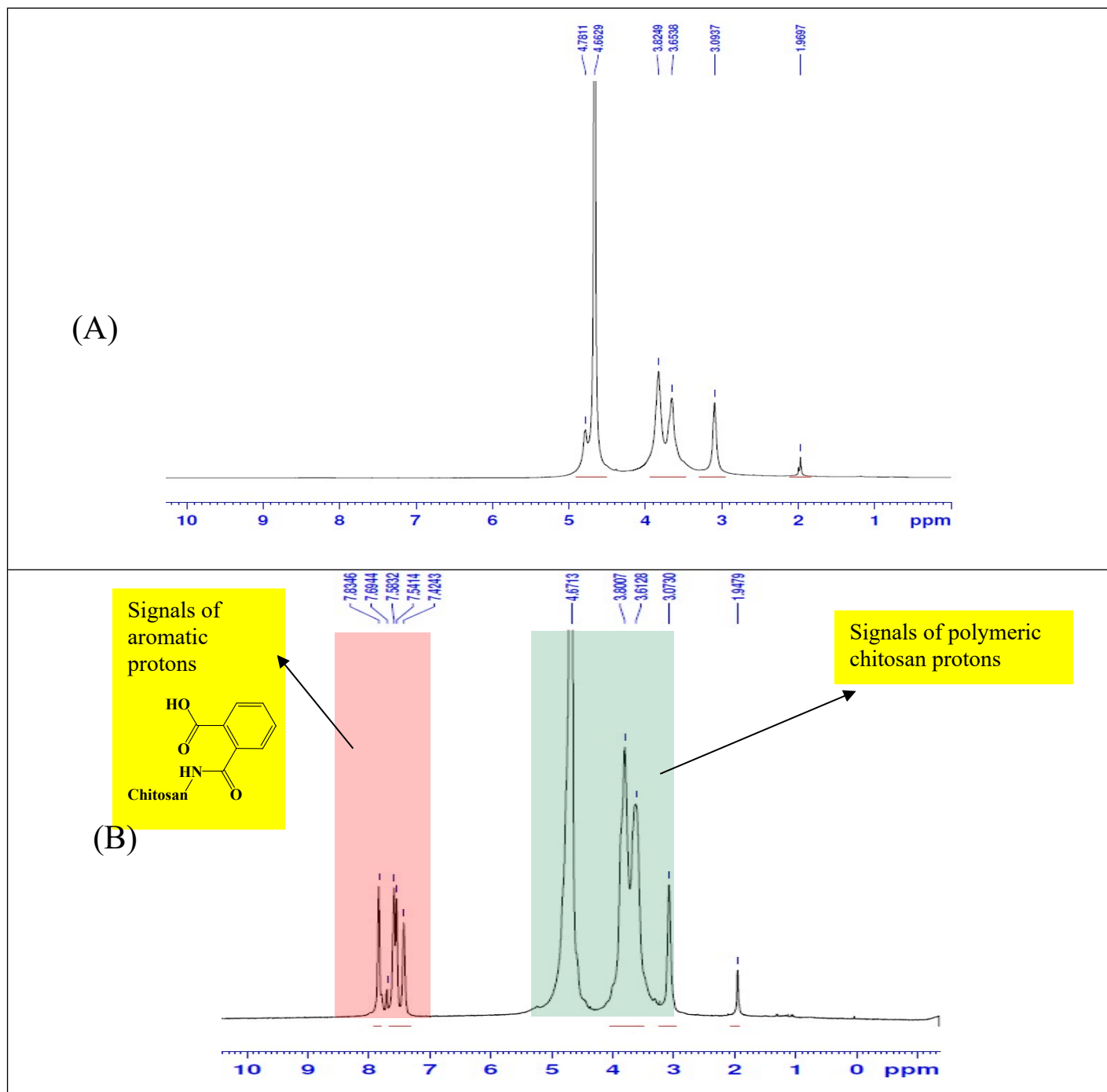


Figure S4: DSC of Chitosan Phthalate (CP)



**Figure S5**  $^1\text{H}$  NMR spectrums of (A) chitosan, (B) chitosan phthalate.