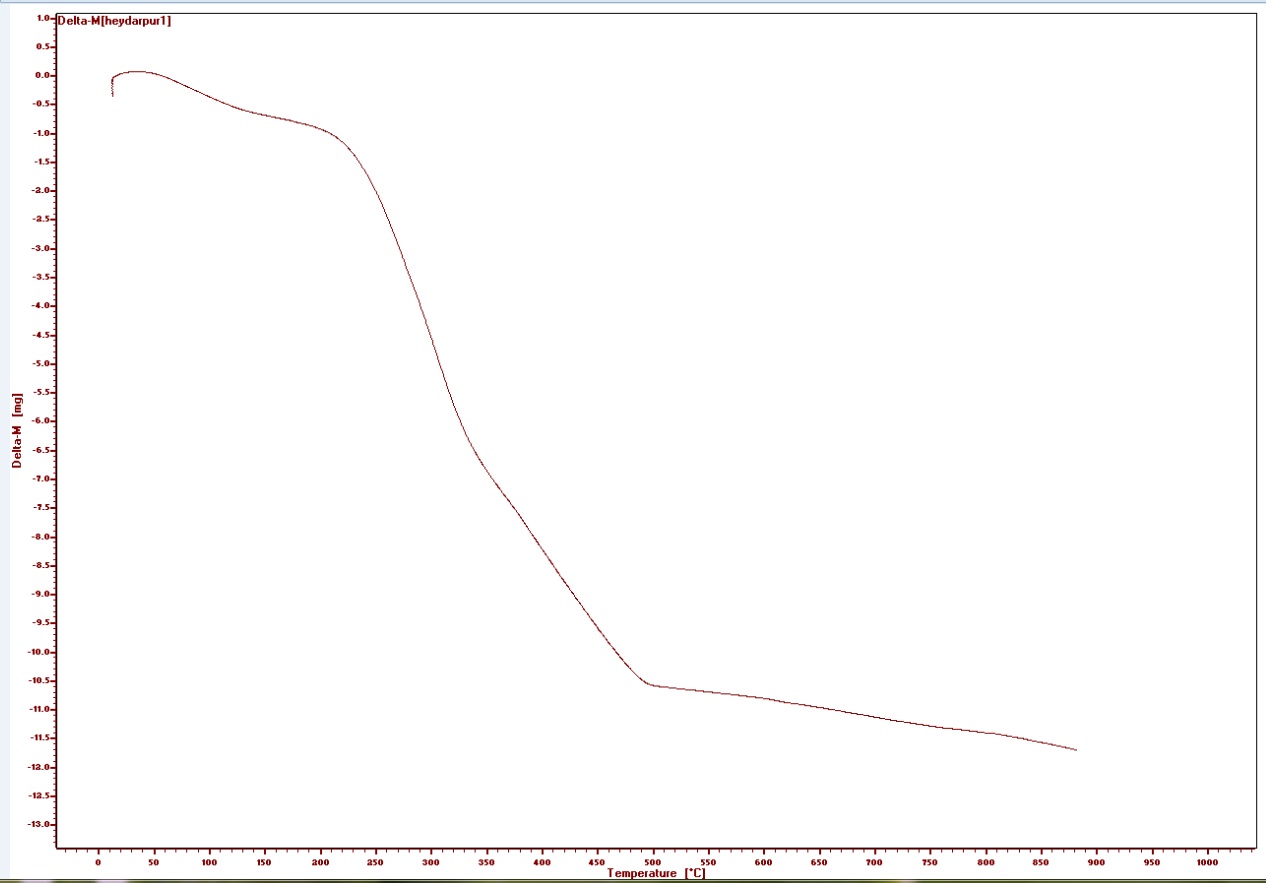
**Supplementary Material**

AsgharZamani \*a, Ahmad PoursattarMarjani \*b, Abbas Nikoob, Mojtaba Heidarpoura and Ahmad Dehghana

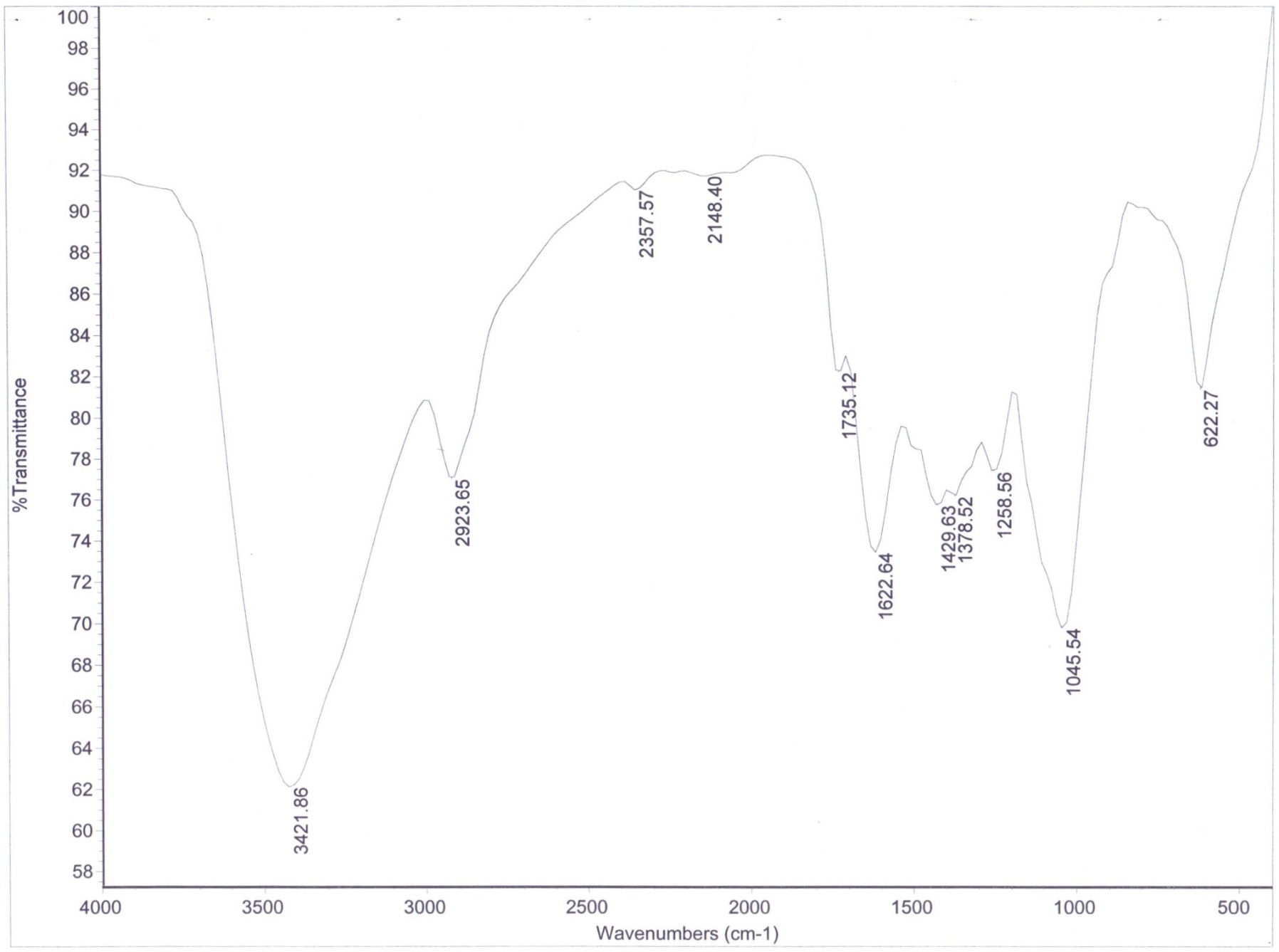
\* Corresponding author. Tel.: +98-912-630-1594; fax: +98-4432752746; e-mail: A. Zamani- [a.zamani@urmia.ac.ir](mailto:a.zamani@urmia.ac.ir), A. Poursattar Marjani- a.poursattar@urmia.ac.ir

a Department of Nanotechnology, Faculty of Science, Urmia University, Urmia 57154, Urmia, Iran

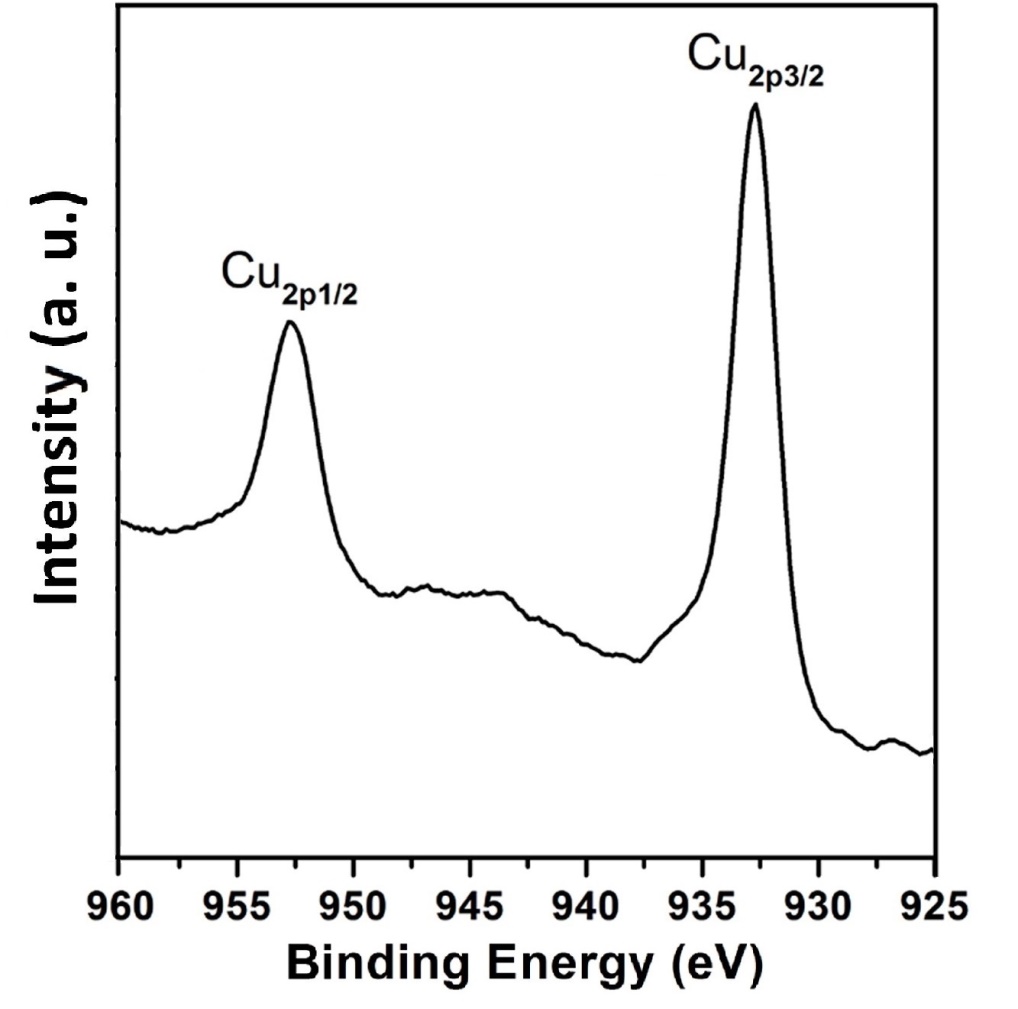
*b Department of Chemistry, Faculty of Science, Urmia University, Urmia 57154, Urmia, Iran*



TGA profile of CuNP/WS-1



FT-IR spectrum of CuNP/WS-3



XPS spectrum of CuNP/WS-3