Electronic Supplementary Material

Zn(II) curcuminate complexes with 2,2′-bipyridine and carboxylates

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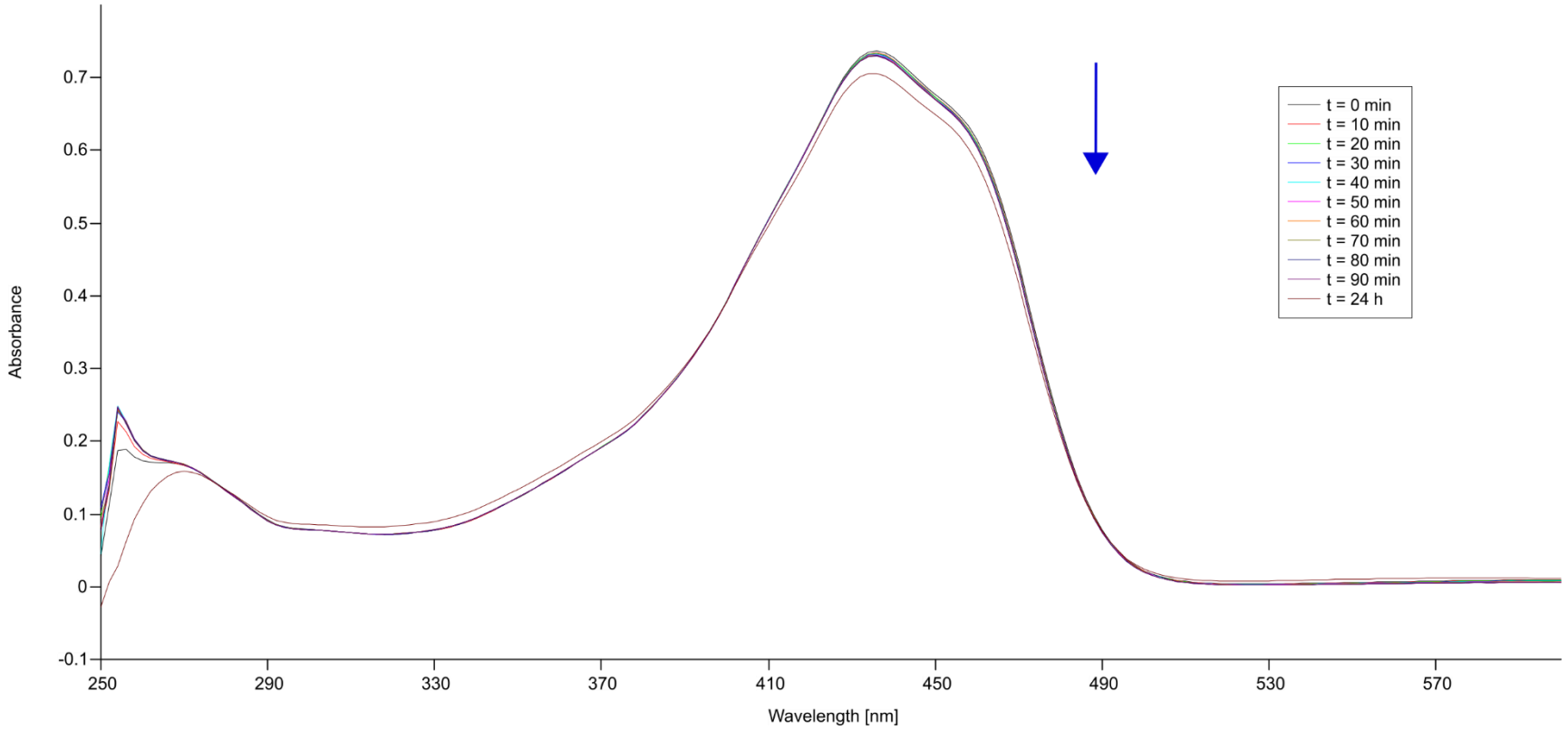

Figure S1. Time-dependent UV-Vis spectra of curH in DMSO.

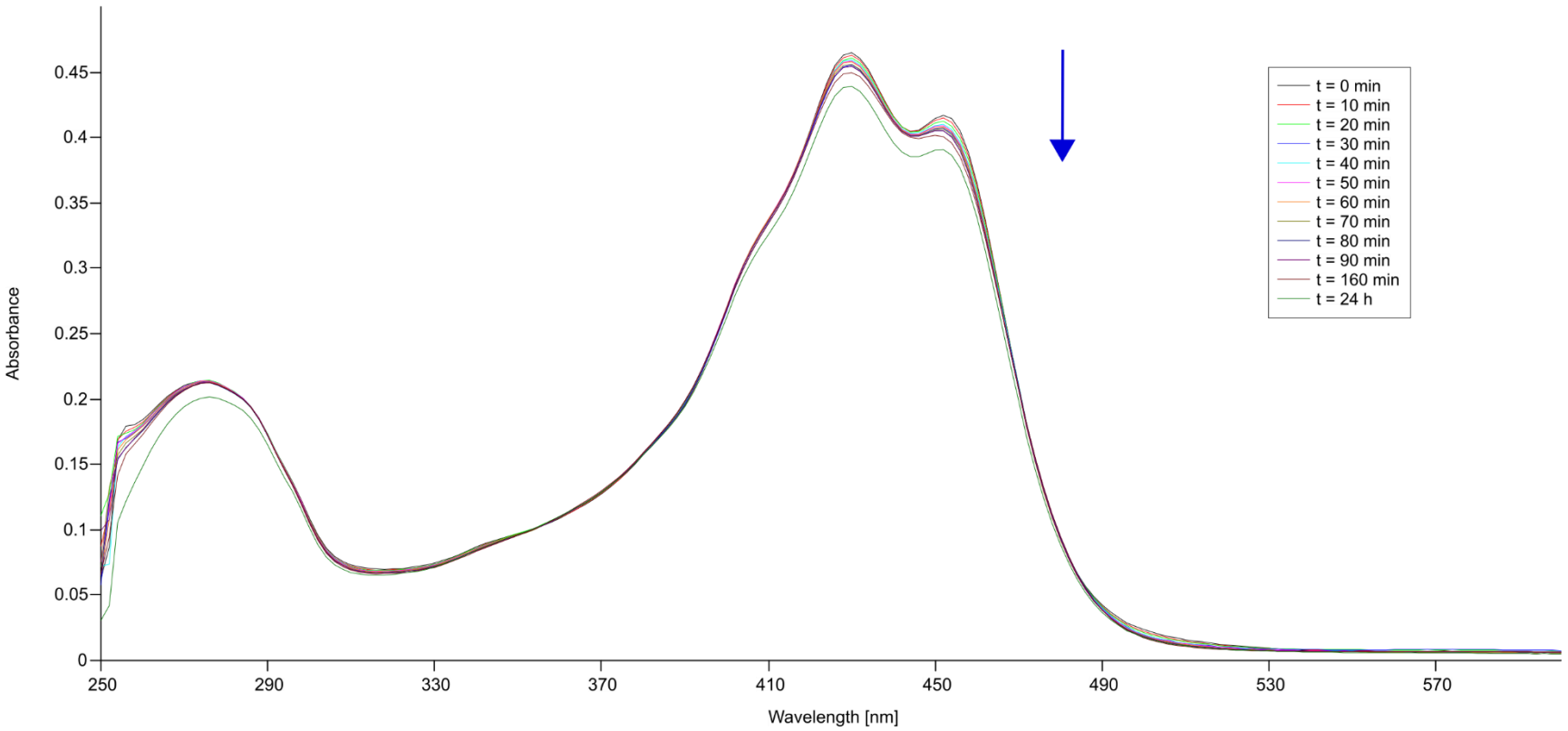

Figure S2. Time-dependent UV-Vis spectra of [Zn(CH_3COO)(cur)(bpy)](**1**) in DMSO.

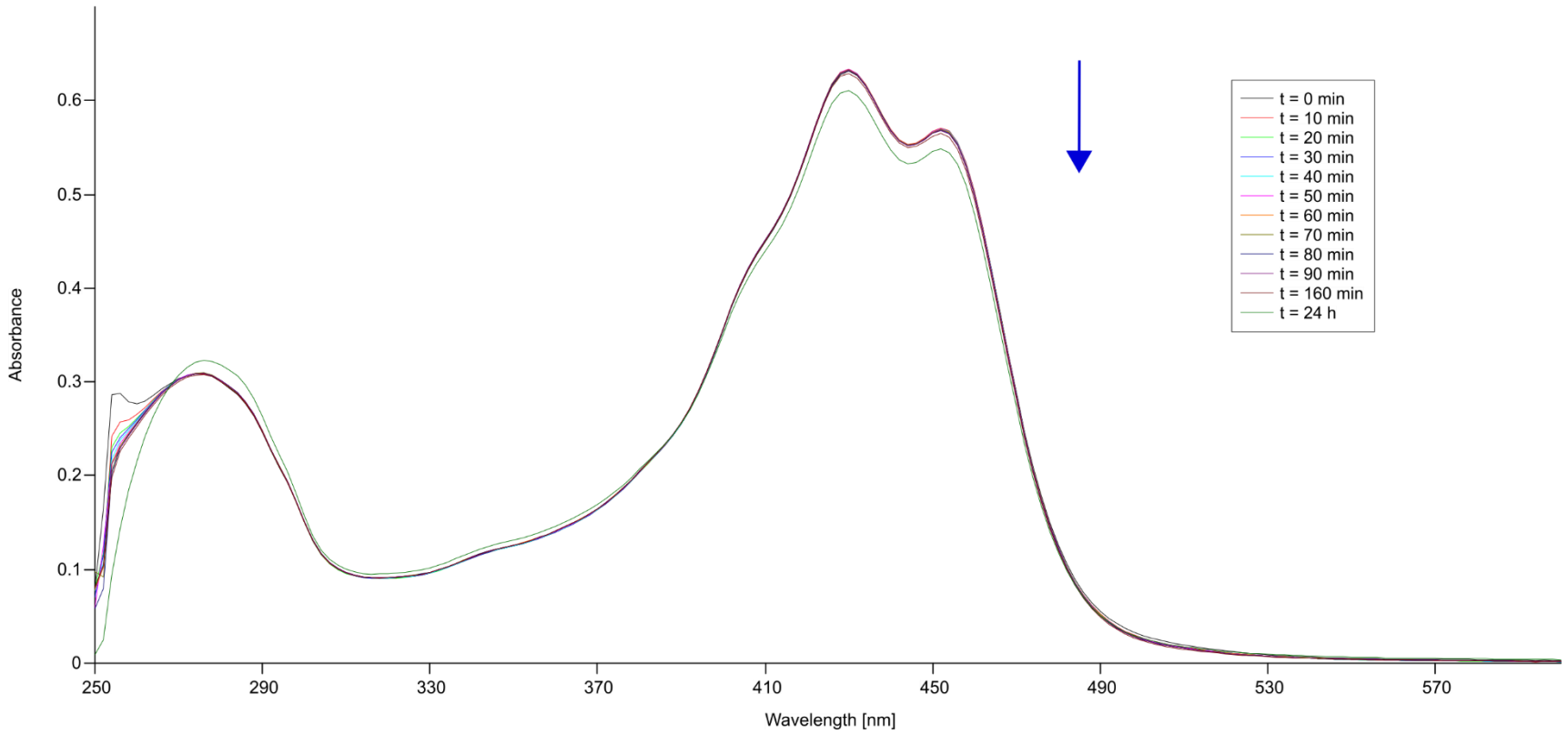

Figure S3. Time-dependent UV-Vis spectra of [Zn(PhCOO)(cur)(bpy)](**2**) in DMSO.

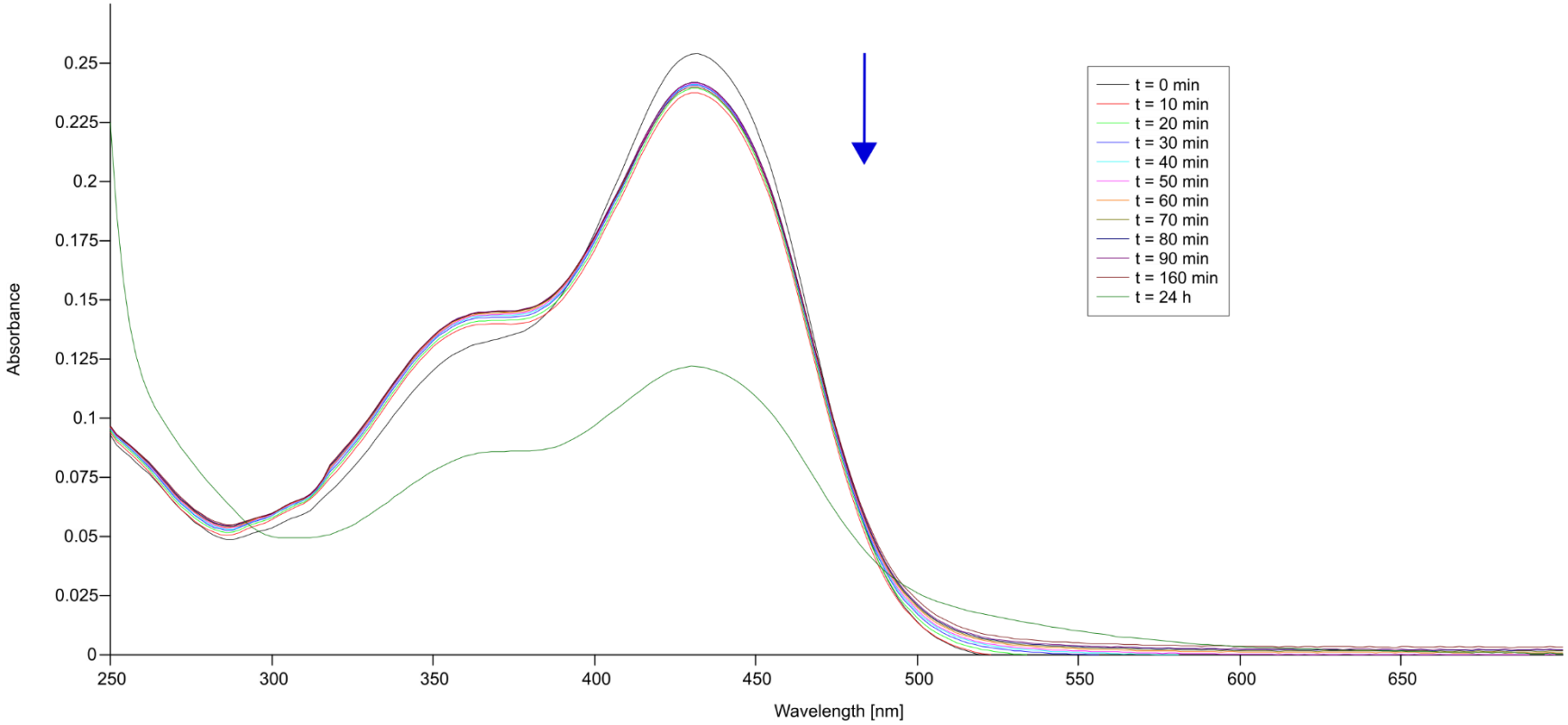

Figure S4. Time-dependent UV-Vis spectra of curH in 90 vol.% 100 mM NaCl - 10 vol. % DMSO.

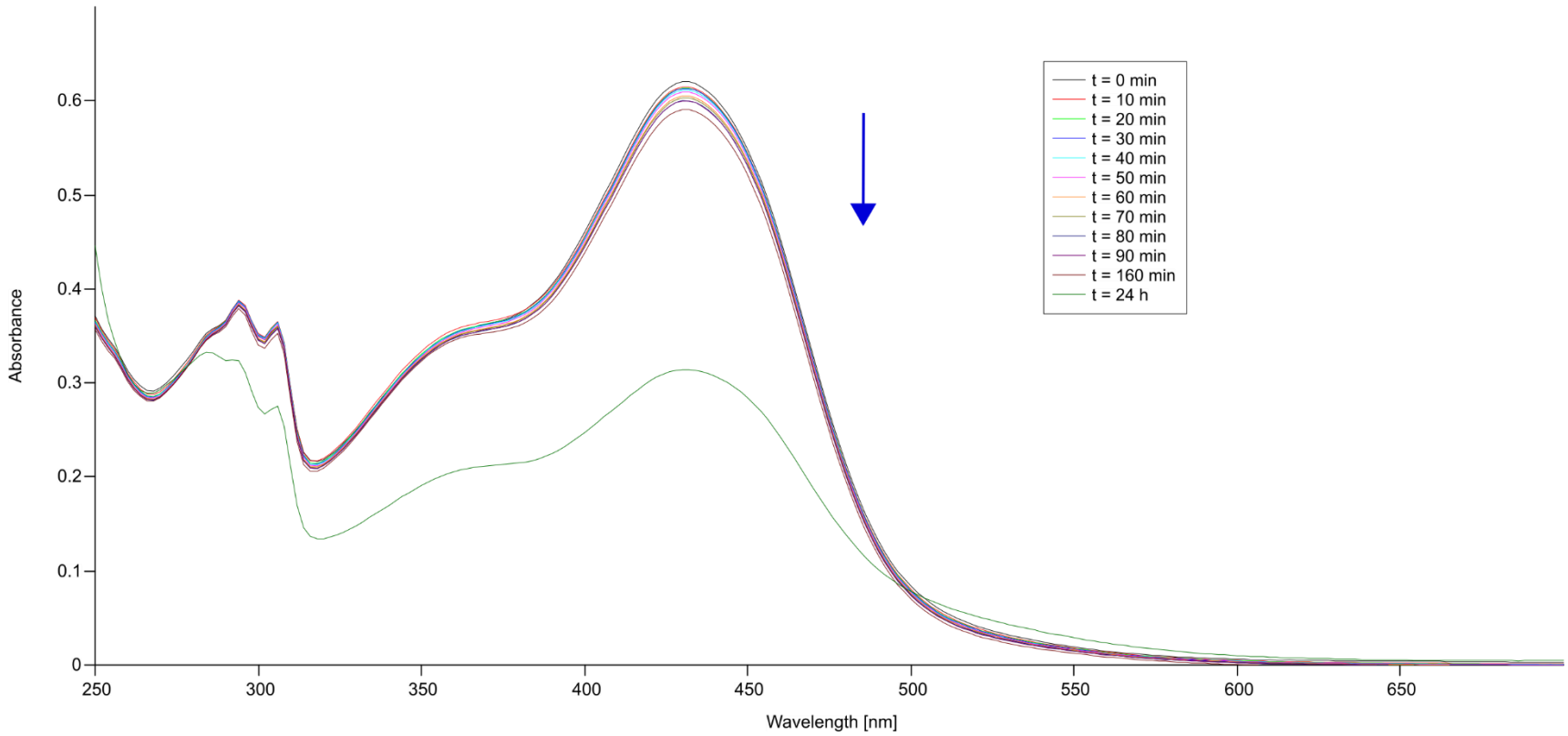

Figure S5. Time-dependent UV-Vis spectra of [Zn(CH_3COO)(cur)(bpy)](**1**) in 90 vol.% 100 mM NaCl - 10 vol. % DMSO.

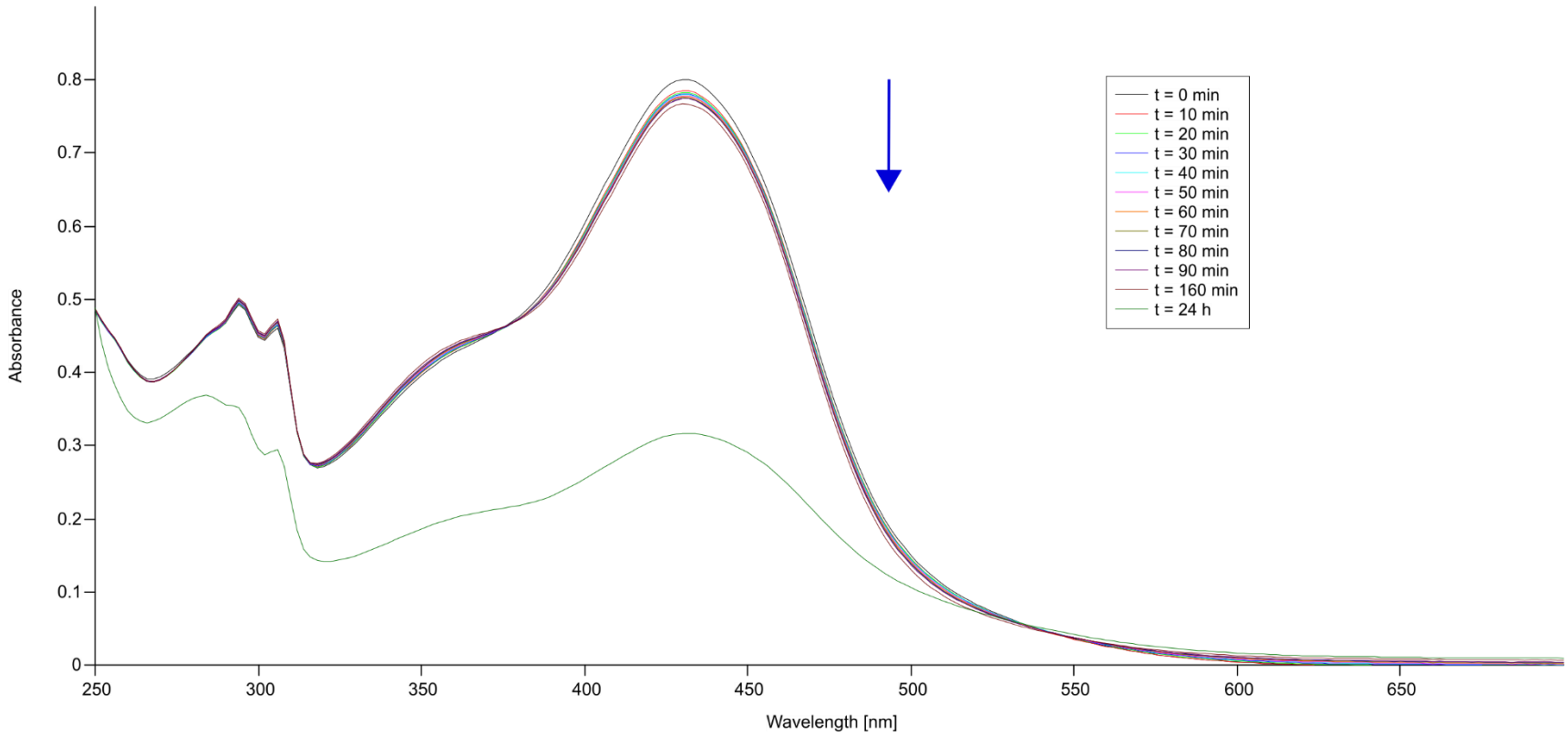

Figure S6. Time-dependent UV-Vis spectra of [Zn(PhCOO)(cur)(bpy)](**2**) in 90 vol.% 100 mM NaCl - 10 vol. % DMSO.

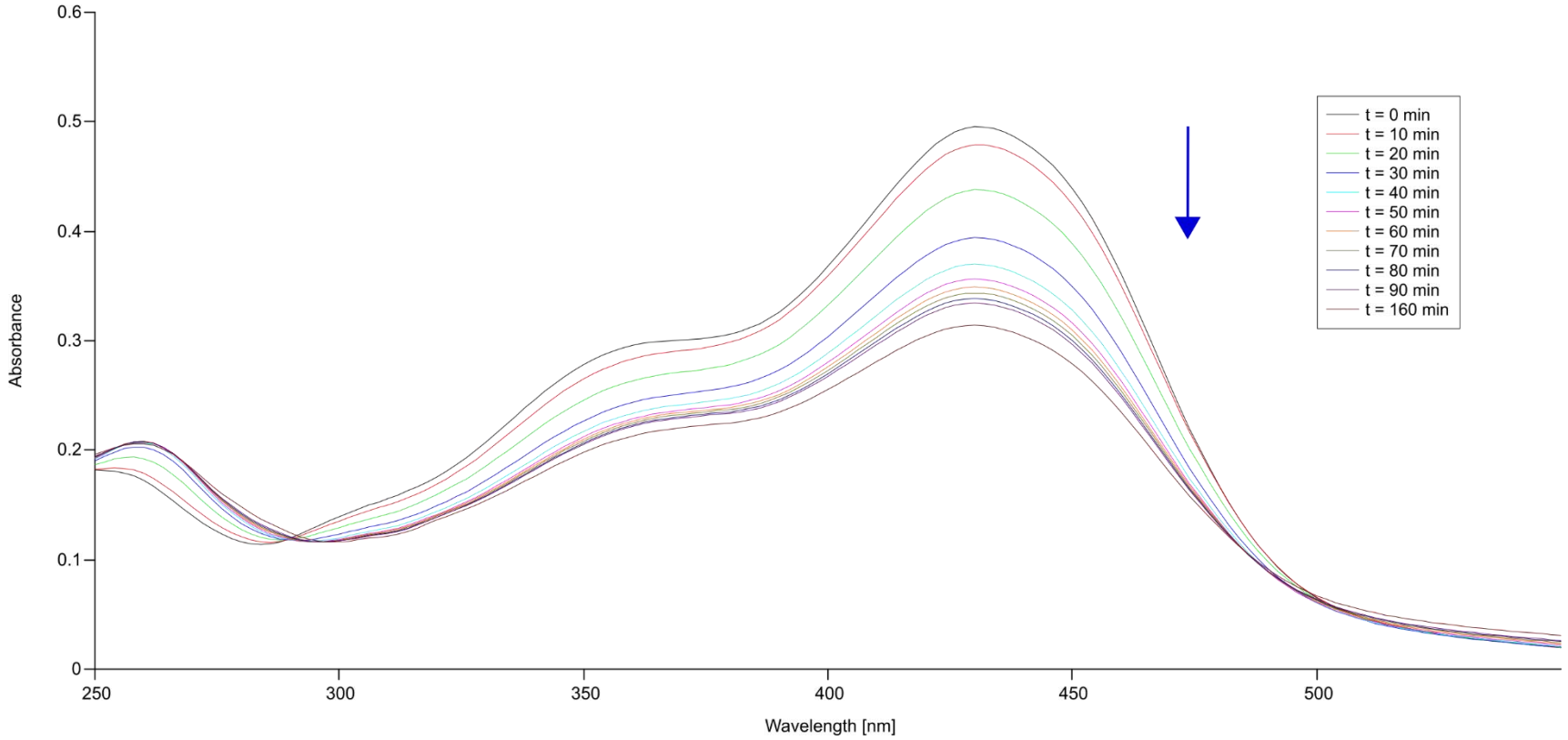

Figure S7. Time-dependent UV-Vis spectra of curH in 90 vol.% PBS (pH = 7.0) - 10 vol.% DMSO solution.

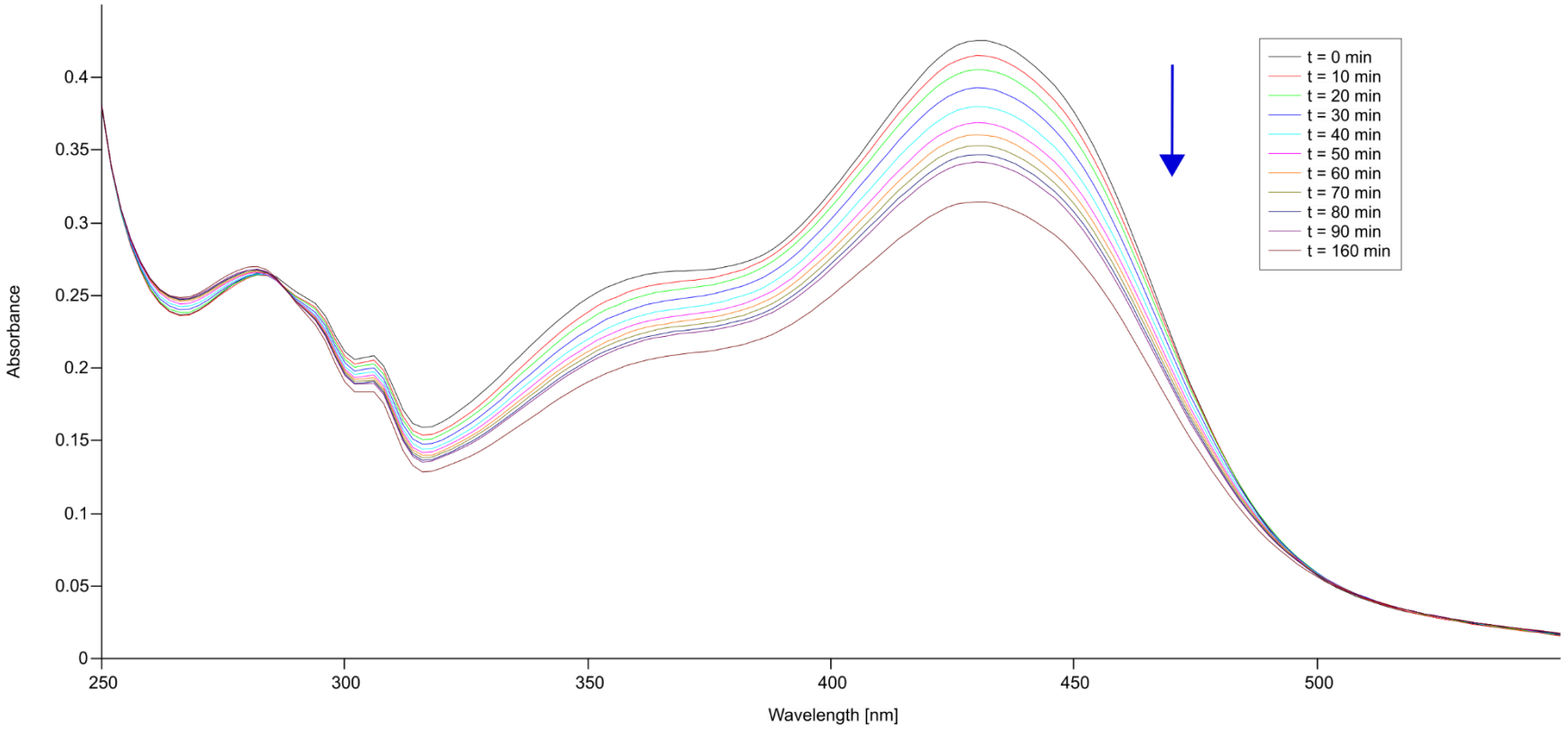

Figure S8. Time-dependent UV-Vis spectra of [Zn(CH_3COO)(cur)(bpy)](**1**) in 90 vol.% PBS (pH = 7.0) - 10 vol.% DMSO solution.

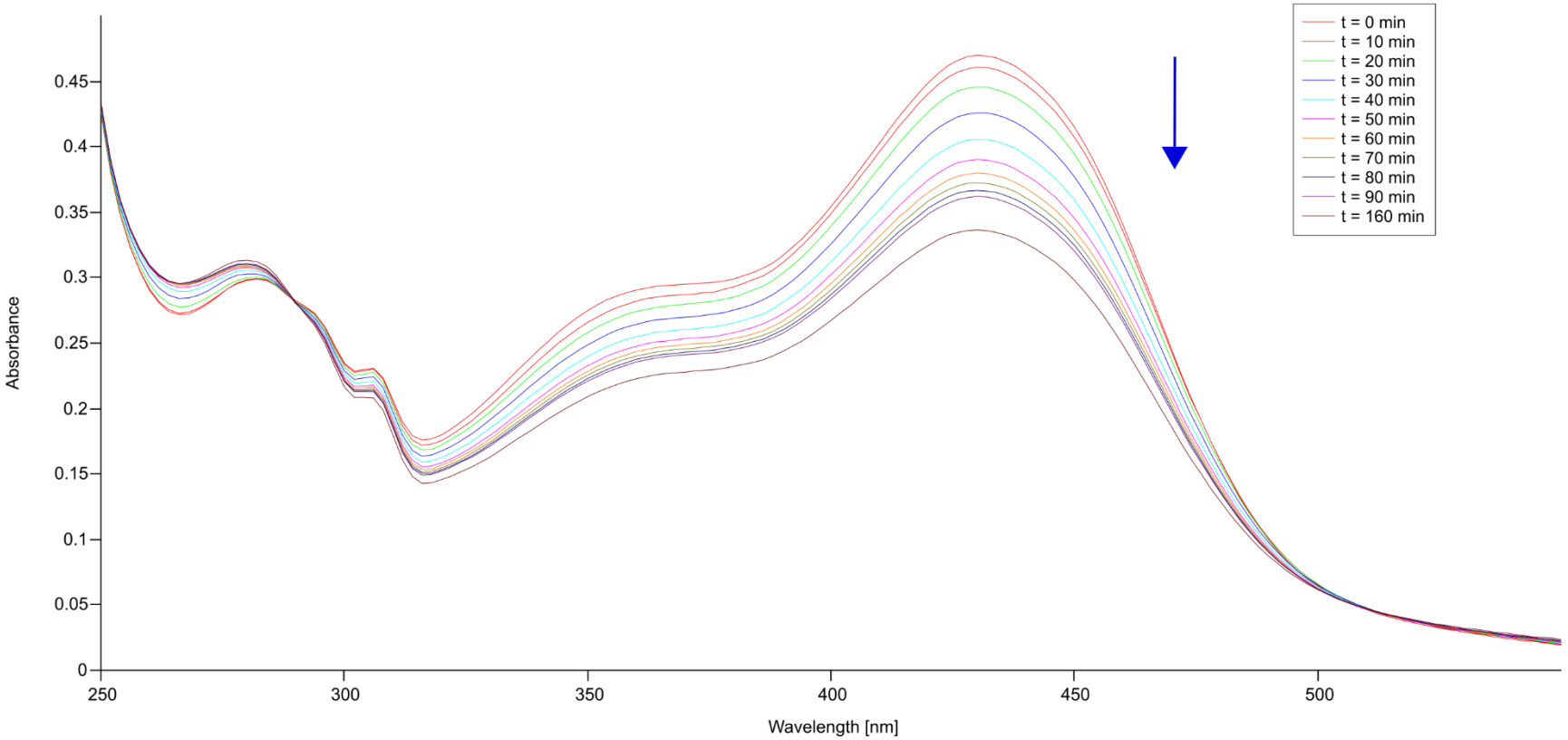

Figure S9. Time-dependent UV-Vis spectra of [Zn(PhCOO)(cur)(bpy)](**2**) in 90 vol.% PBS (pH = 7.0) - 10 vol.% DMSO solution.

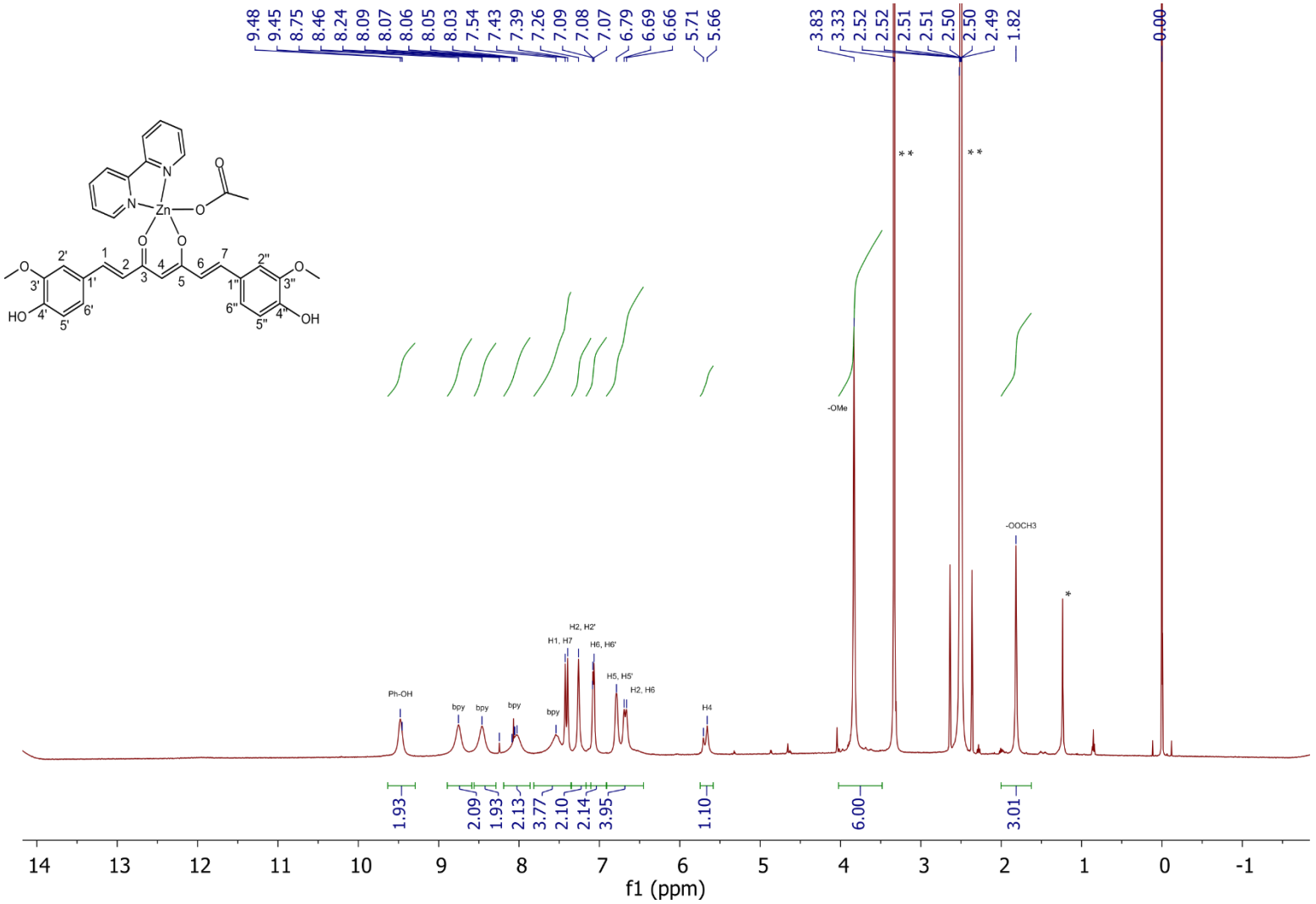

Figure S10. ^{1}H NMR spectrum (500 MHz) of [Zn(CH$_3$COO)(cur)(bpy)](**1**) in DMSO-d_6. The solvent and water peaks are marked with asterisks **, impurity from a vial with *.

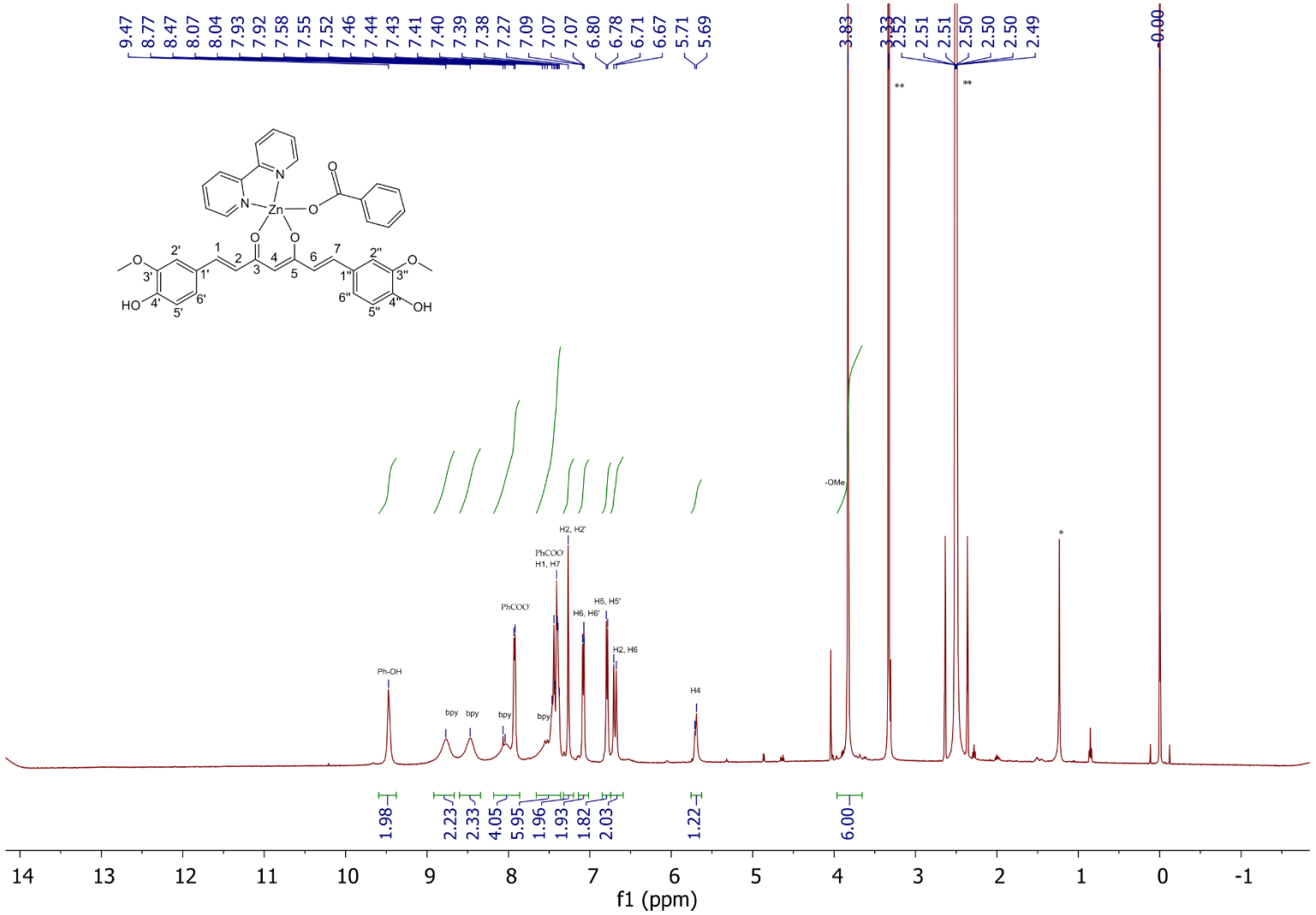

Figure S11. ^{1}H NMR spectrum (500 MHZ) of [Zn(PhCOO)(cur)(bpy)](**2**) in DMSO-d_6. The solvent and water peaks are marked with asterisks **, impurity from a vial with *.

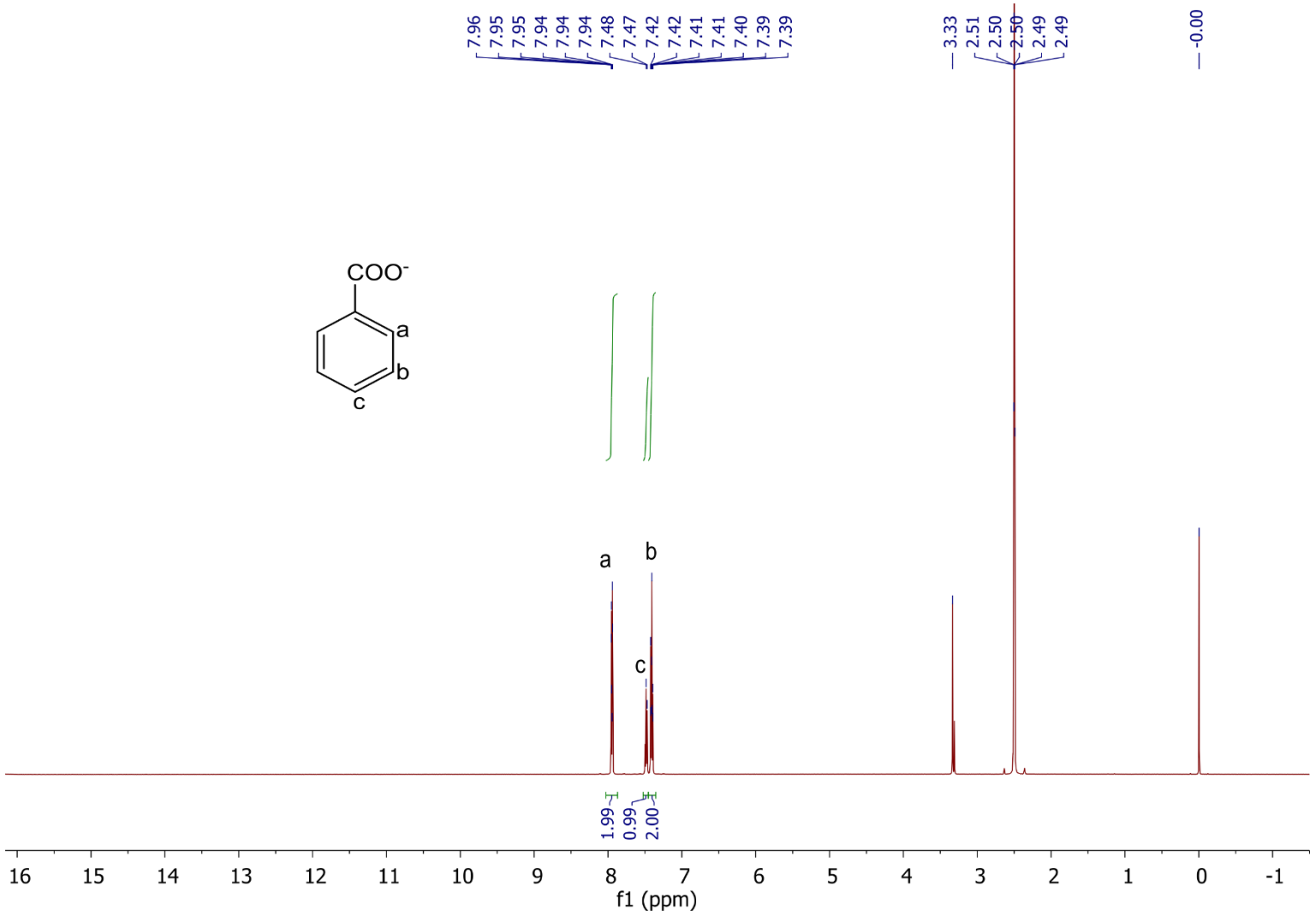

Figure S12. ^{1}H NMR spectrum (500 MHz) of [Zn(PhCOO)$_2$] in DMSO-d_6.

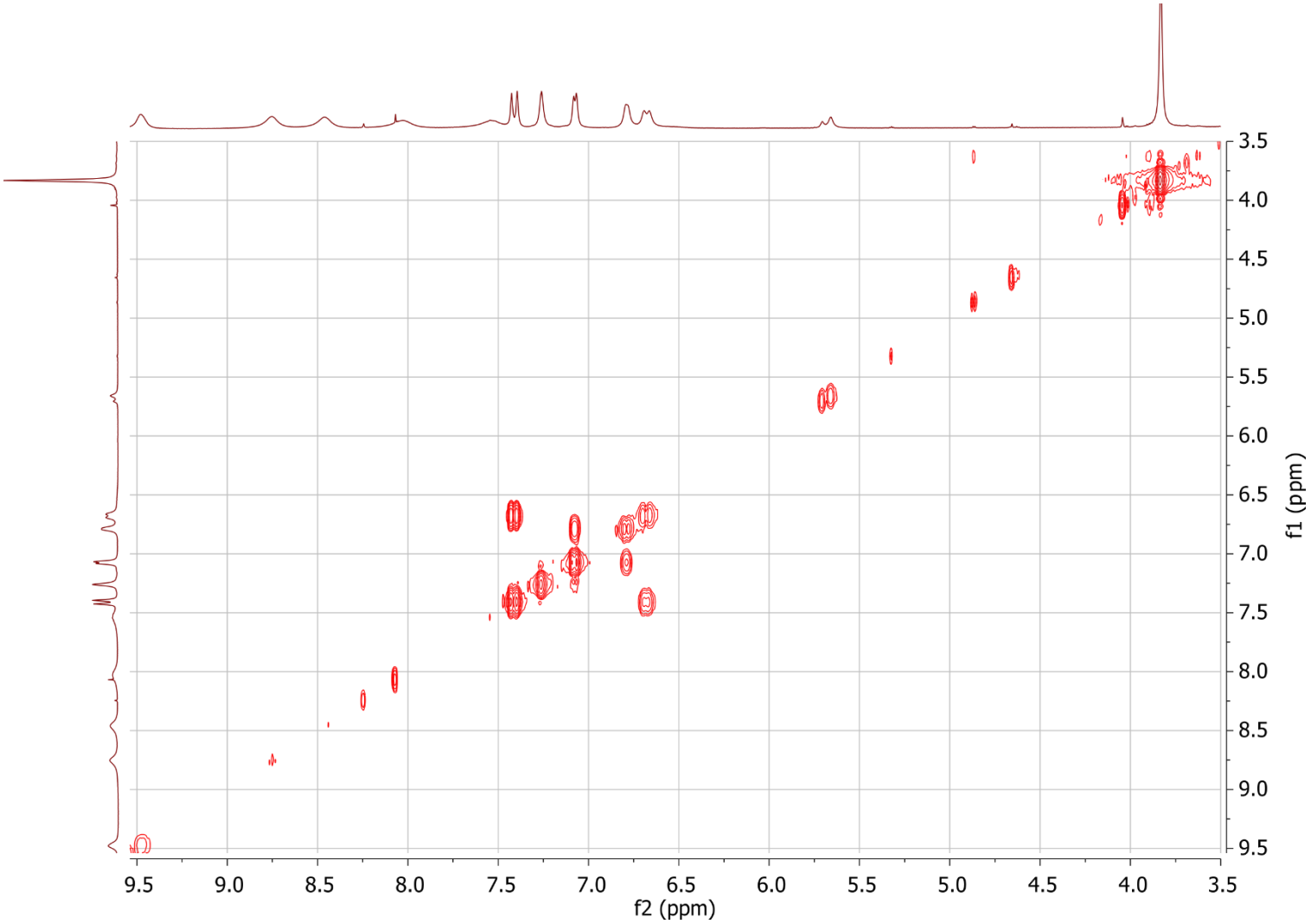

Figure S13. 2D [^{1}H,^{1}H] COSY NMR (500 MHZ) spectrum of [Zn(CH_3COO)(cur)(bpy)](**1**) in DMSO-d_6.

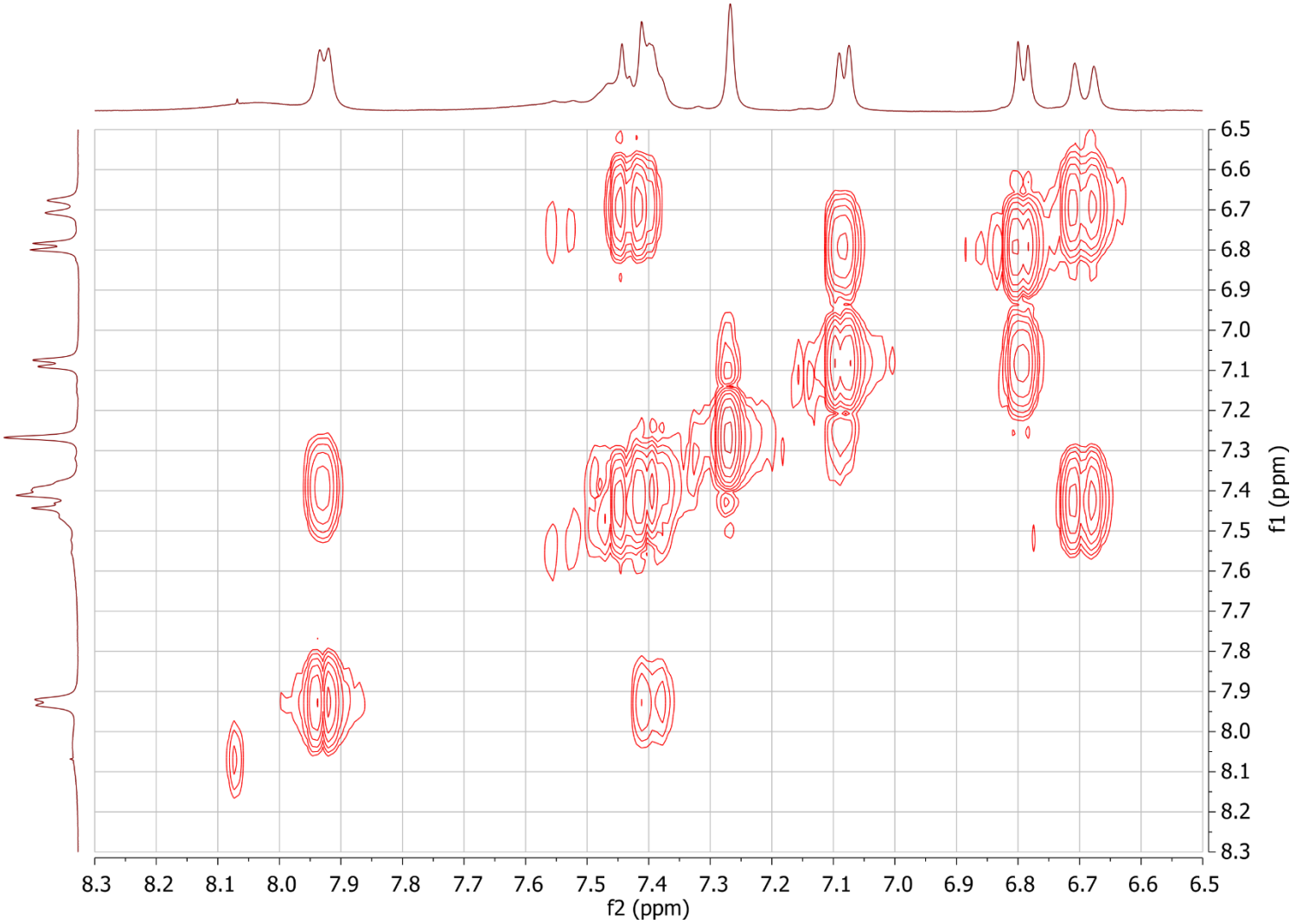

Figure S14. 2D [^{1}H,^{1}H] COSY NMR (500 MHZ) spectrum of [Zn(PhCOO)(cur)(bpy)](**2**) in DMSO-d_6.

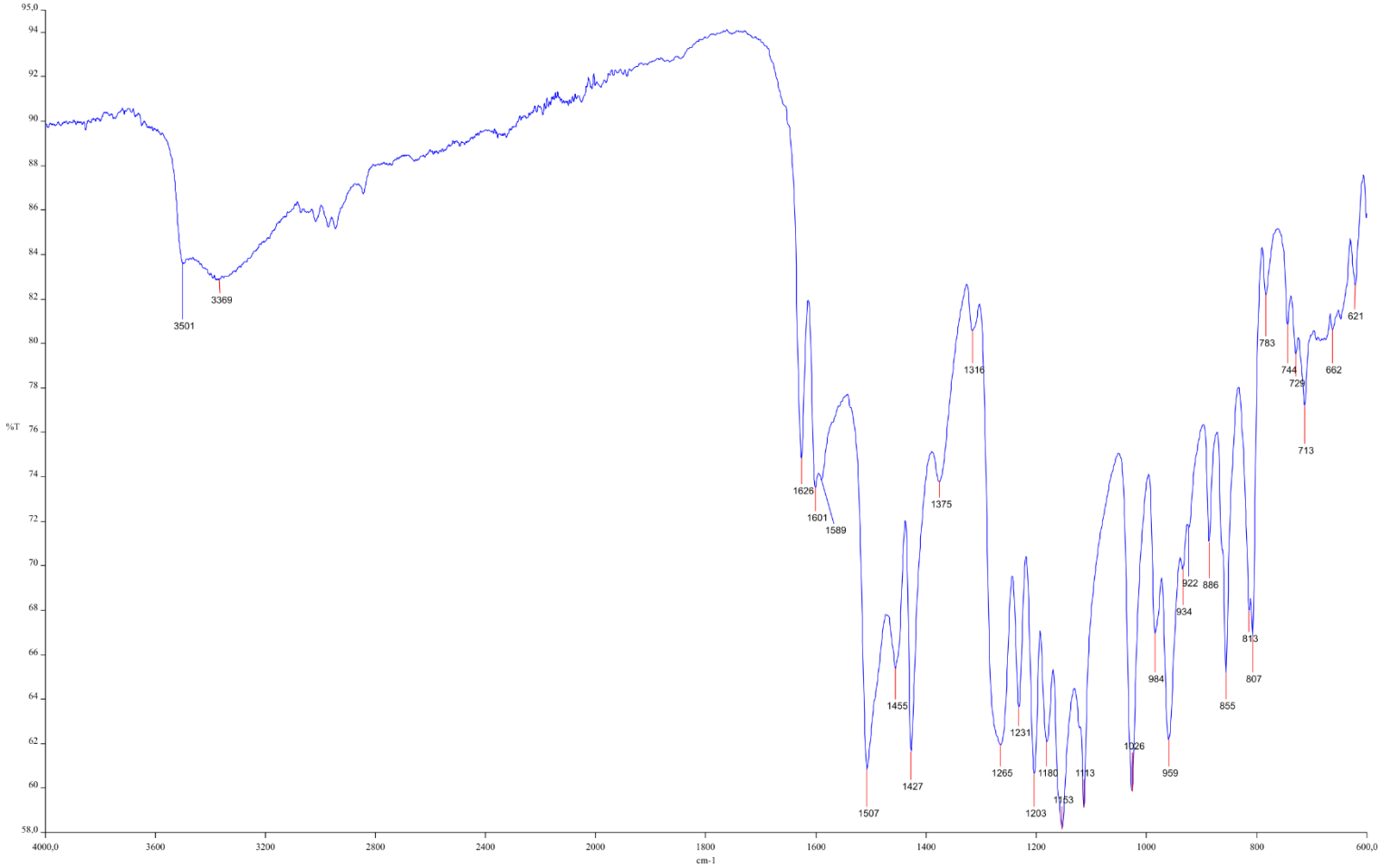

Figure S15. ATR-IR spectrum of curH.

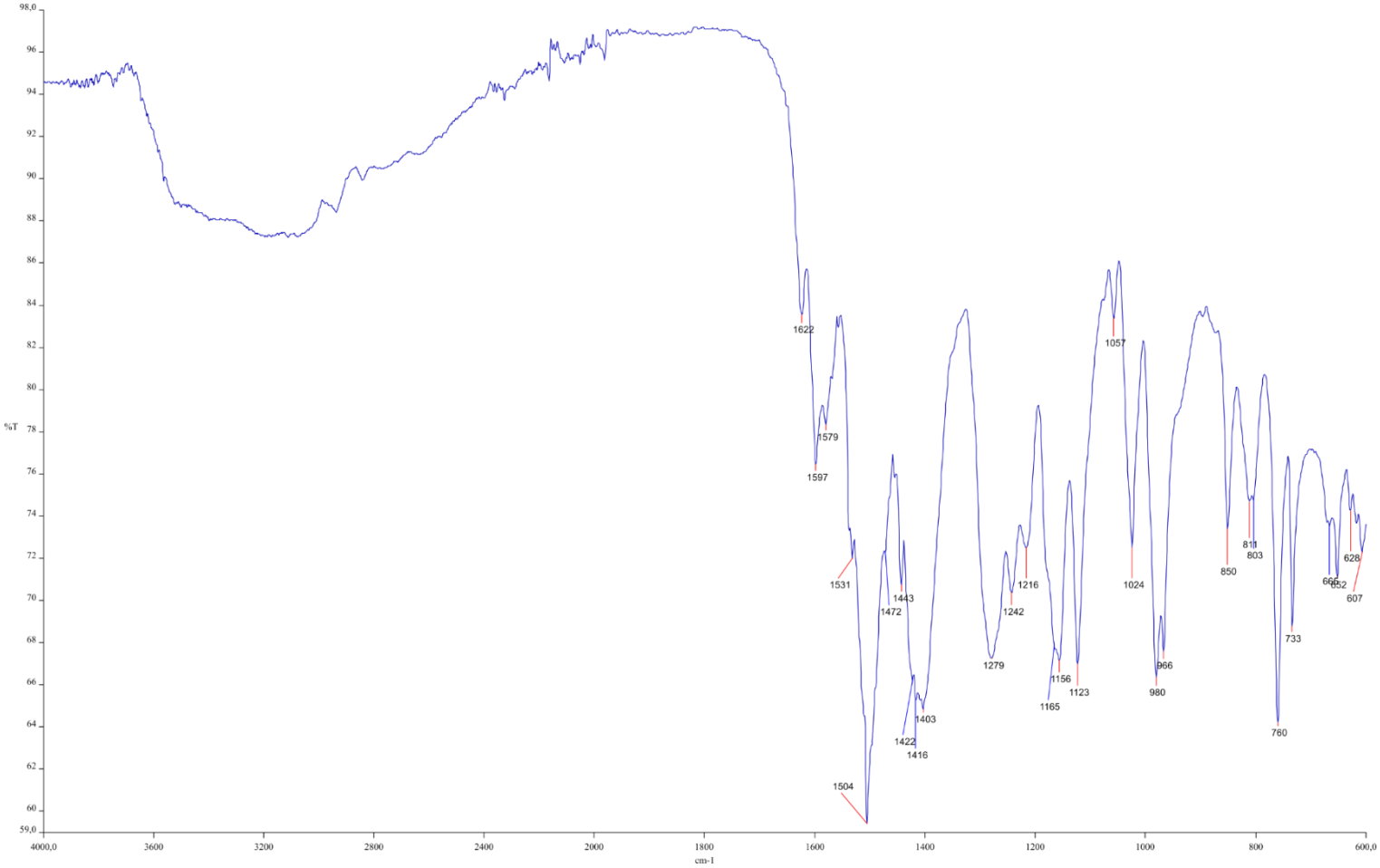

Figure S16. ATR-IR spectrum of [Zn(CH_3COO)(cur)(bpy)](**1**)·CH_3OH·$2H_2O$.

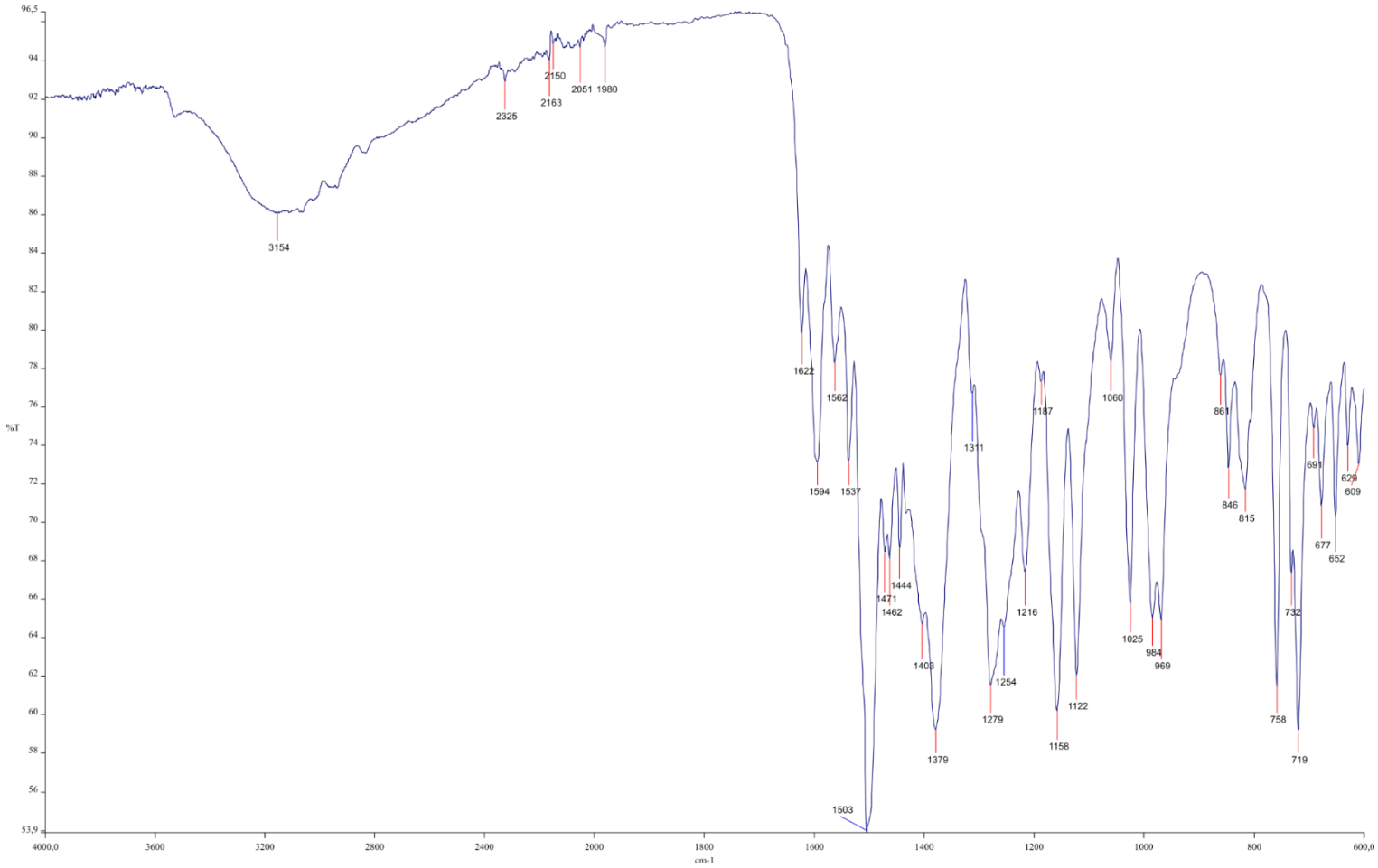

Figure S17. ATR-IR spectrum of [Zn(PhCOO)(cur)(bpy)](**2**)·CH_3OH.

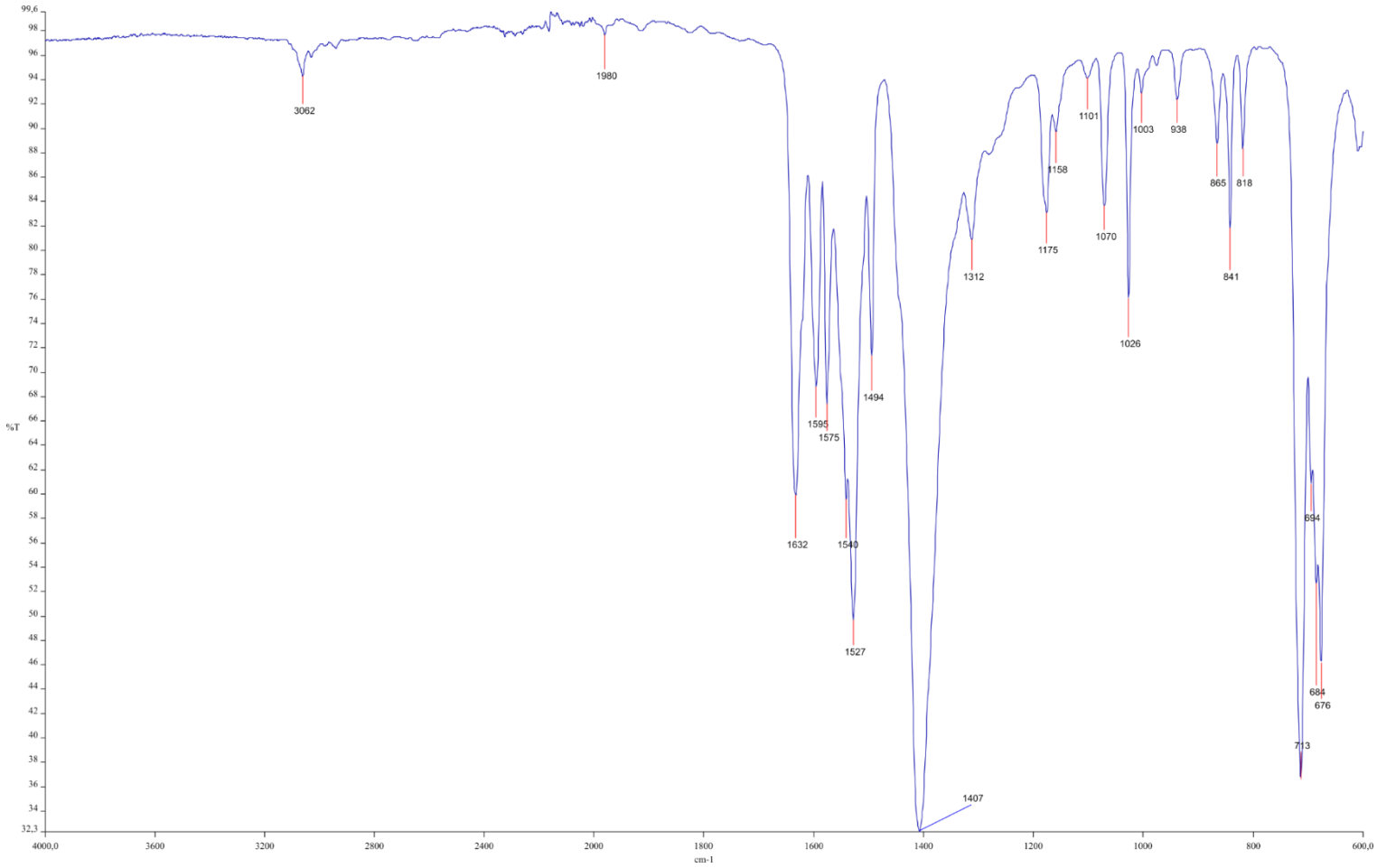

Figure S18. ATR-IR spectrum of [Zn(PhCOO)$_2$].

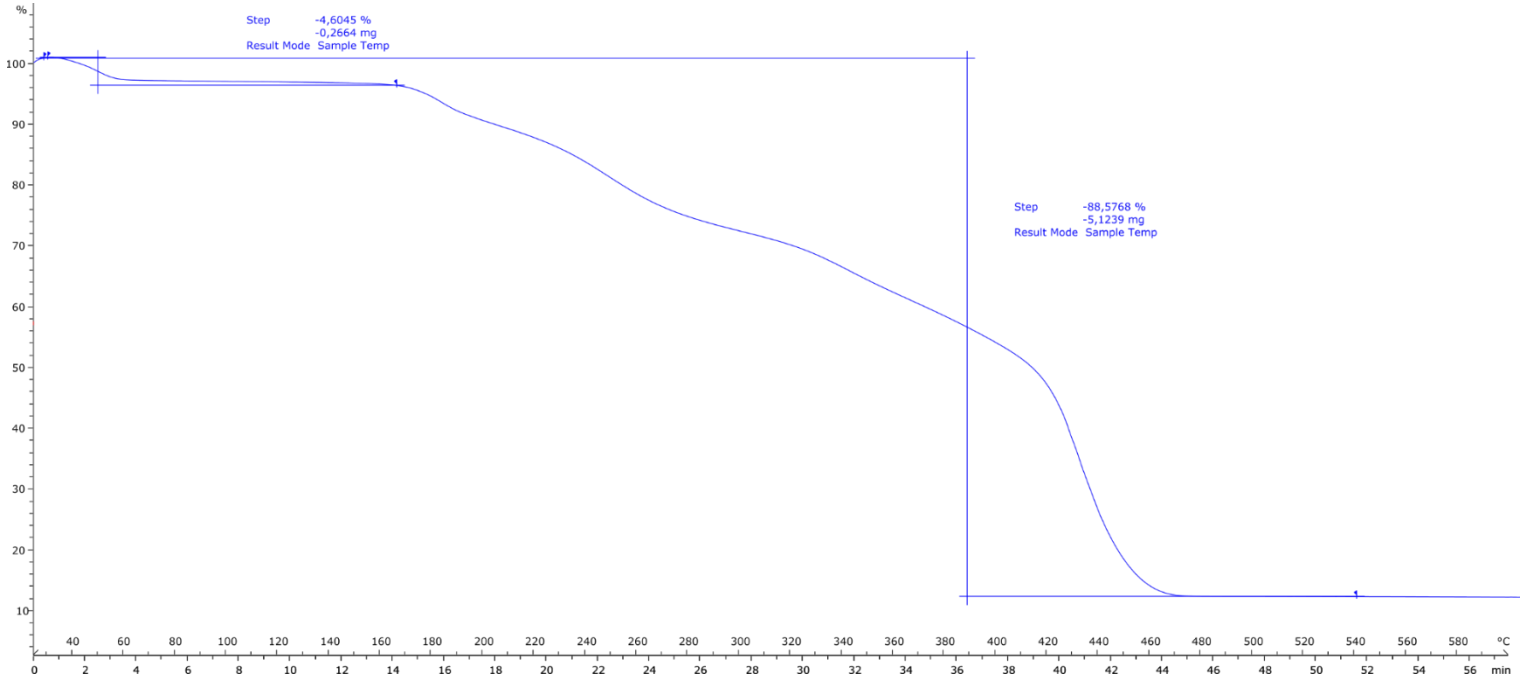

Figure S19. TGA curve of crystals of [Zn(CH_3COO)(cur)(bpy)](**1**)·CH_3OH·$2H_2O$, recorded after being exposed to air.

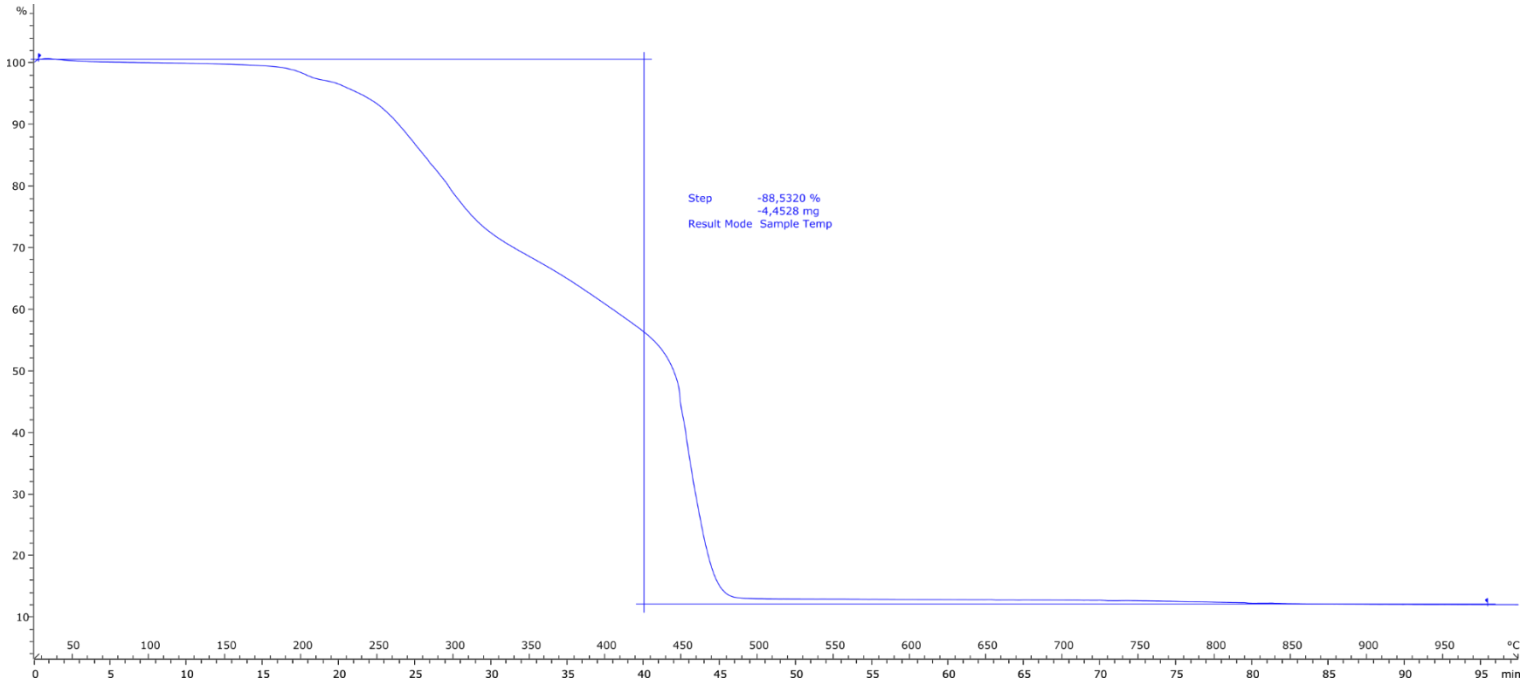

Figure S20. TGA curve of crystals of [Zn(PhCOO)(cur)(bpy)](**2**)·CH_3OH, recorded after being exposed to air.

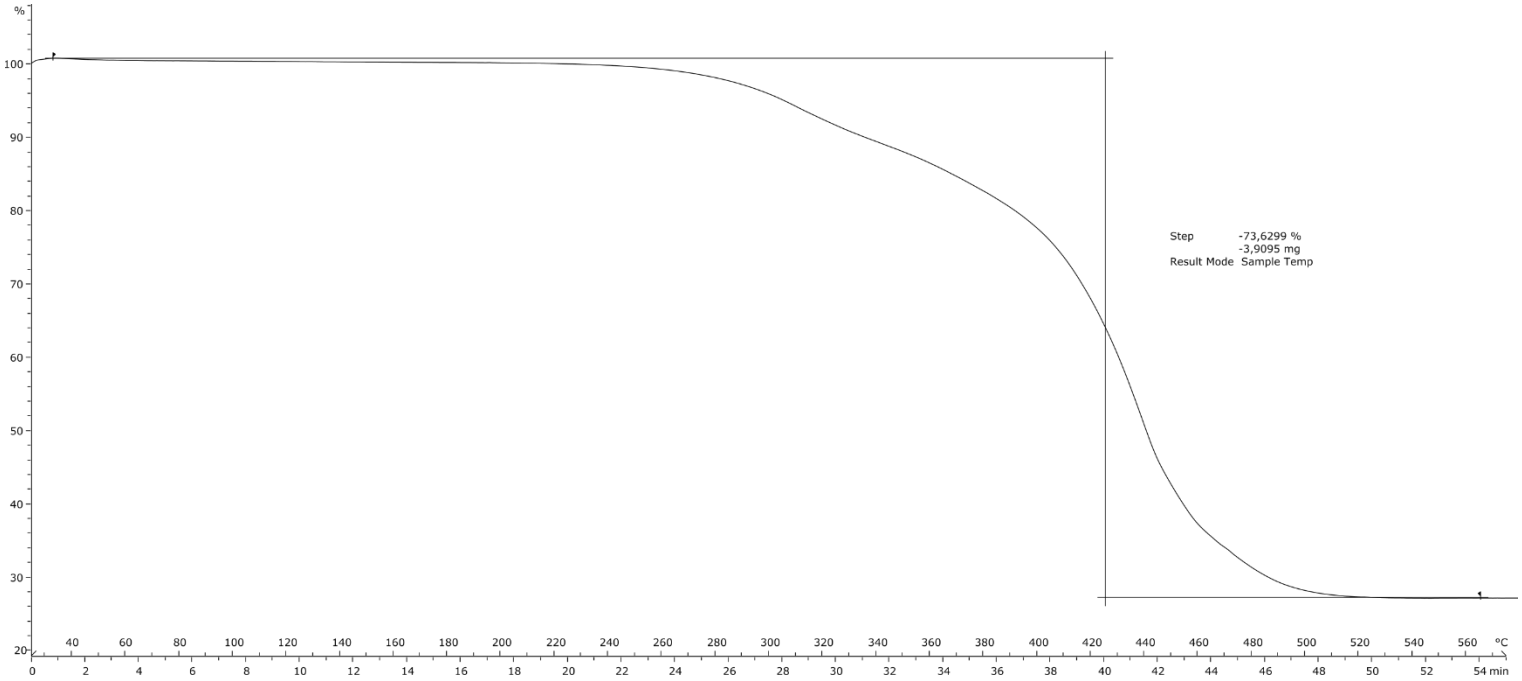

Figure S21. TGA curve of $[Zn(PhCOO)_2]$