

Supplementary Material

Synthesis of thiazolidine derivatives via multicomponent reaction in the presence of Fe₃O₄@SiO₂-SO₃H nanoparticles as a heterogeneous catalystAzizollah Habibi,^{a*} Ehsan Ghanbari,^a and Issa Yavari^b^a Department of Chemistry, Kharazmi University, No. 43, P. Code 15719-14911, Mofatteh Street, Enghelab Ave., Tehran, Iran.^b Department of Chemistry, Tarbiat Modares University, PO Box 14115-175, Tehran, Iran.
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Figure S1 IR spectrum of 4a

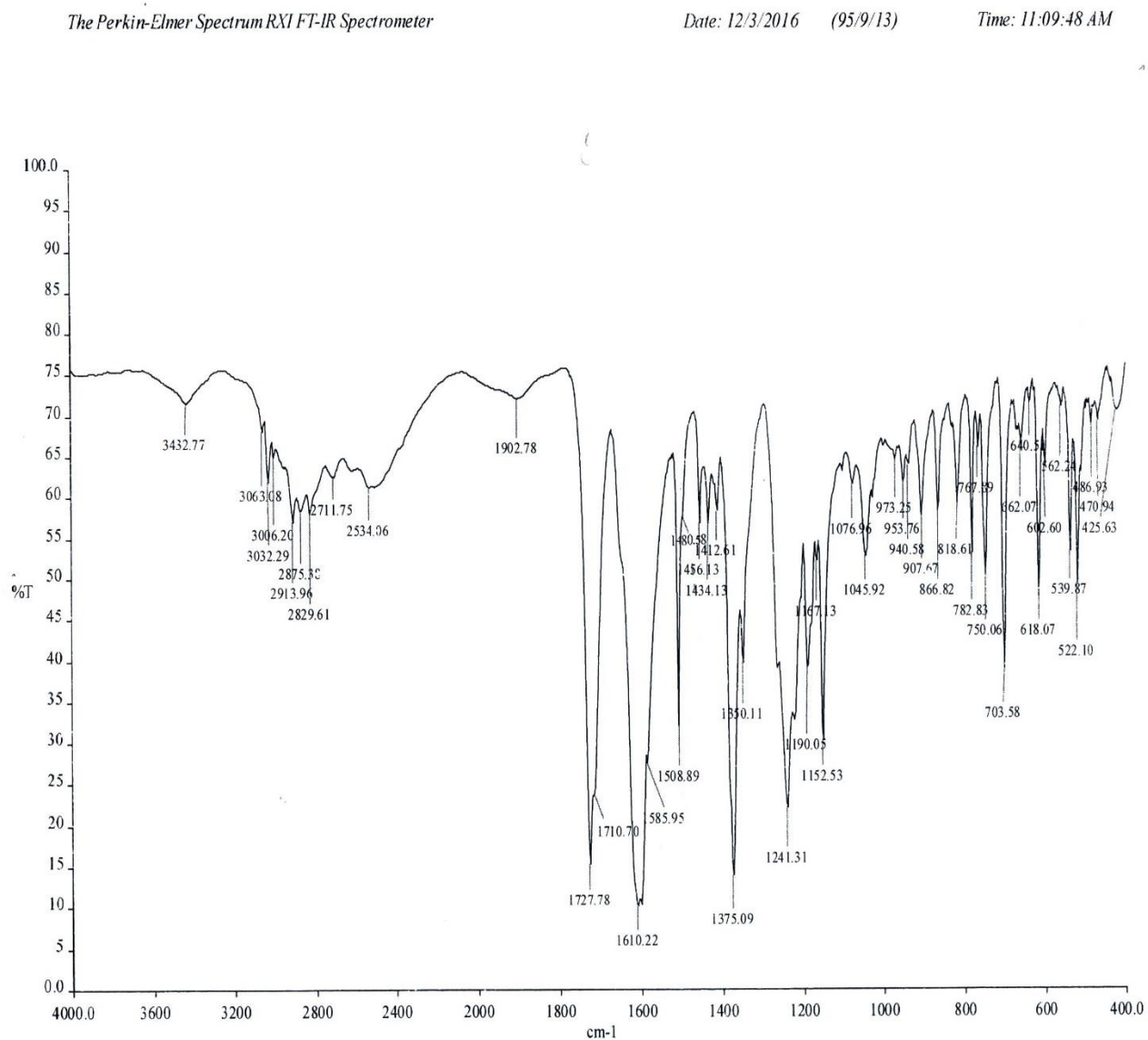


Figure S2 IR spectrum of 4b

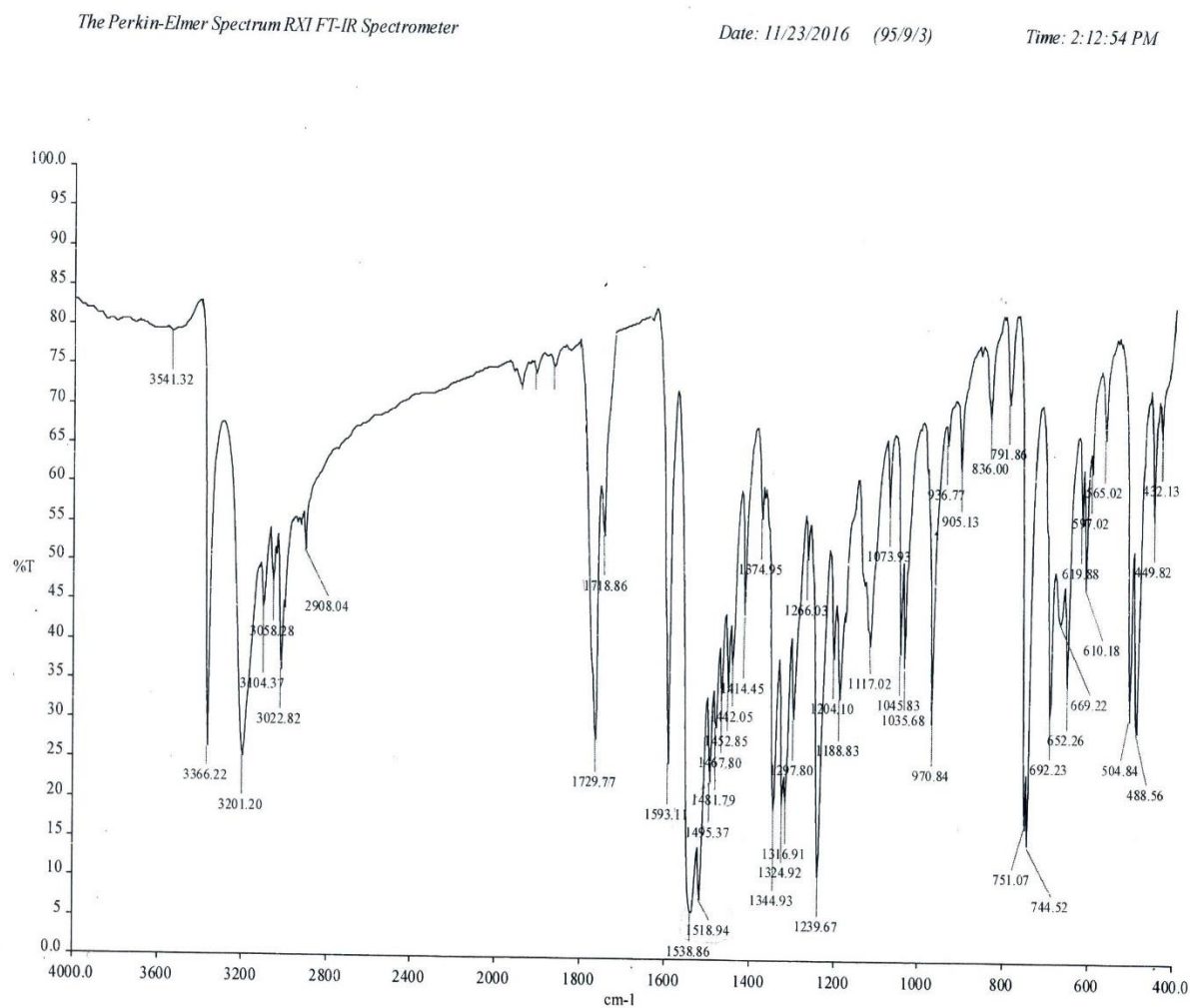


Figure S3 IR spectrum of 4c

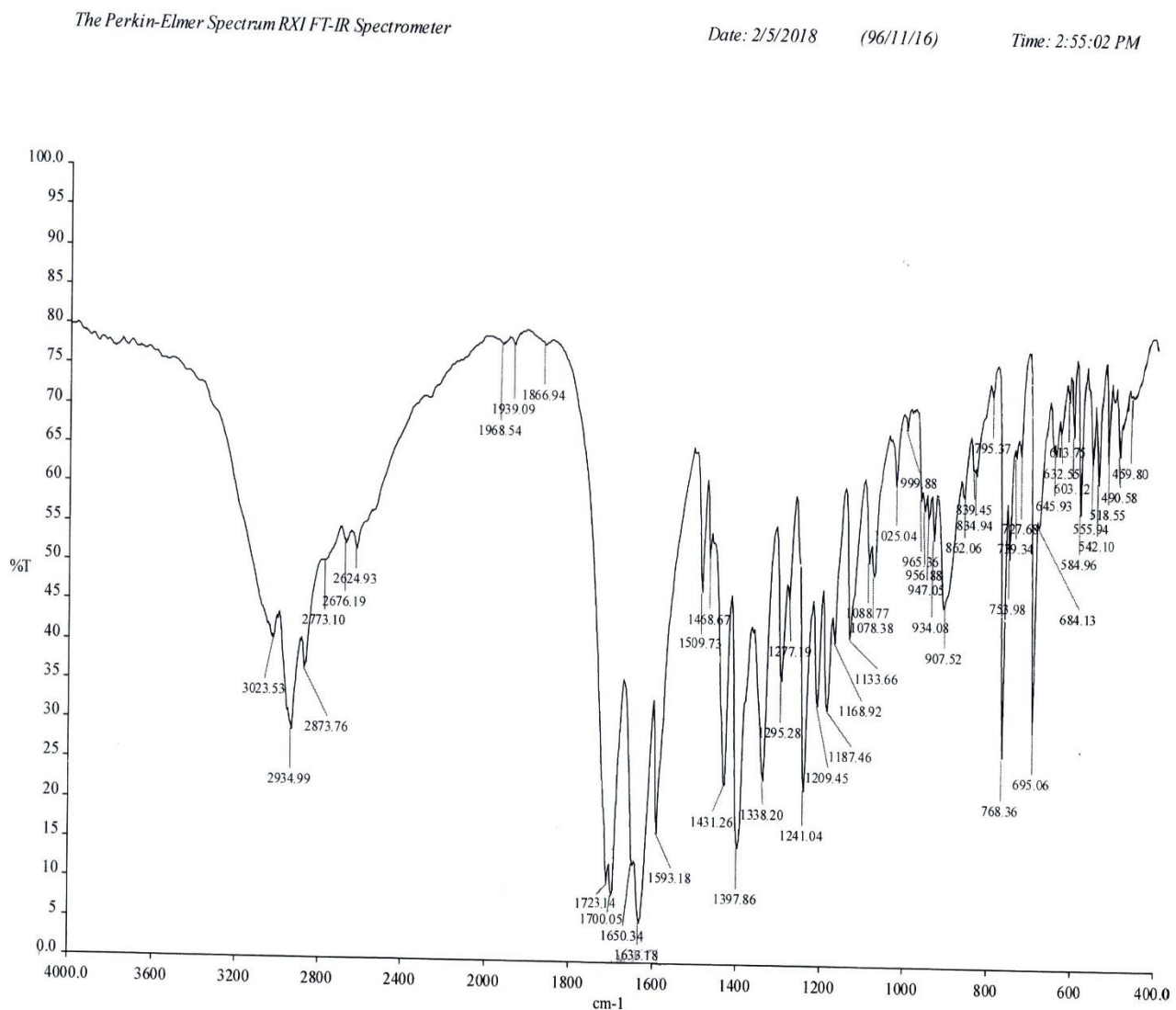


Figure S4 IR spectrum of 4d

The Perkin-Elmer Spectrum RXI FT-IR Spectrometer

Date: 2/5/2018

(96/11/16)

Time: 11:28:46 AM

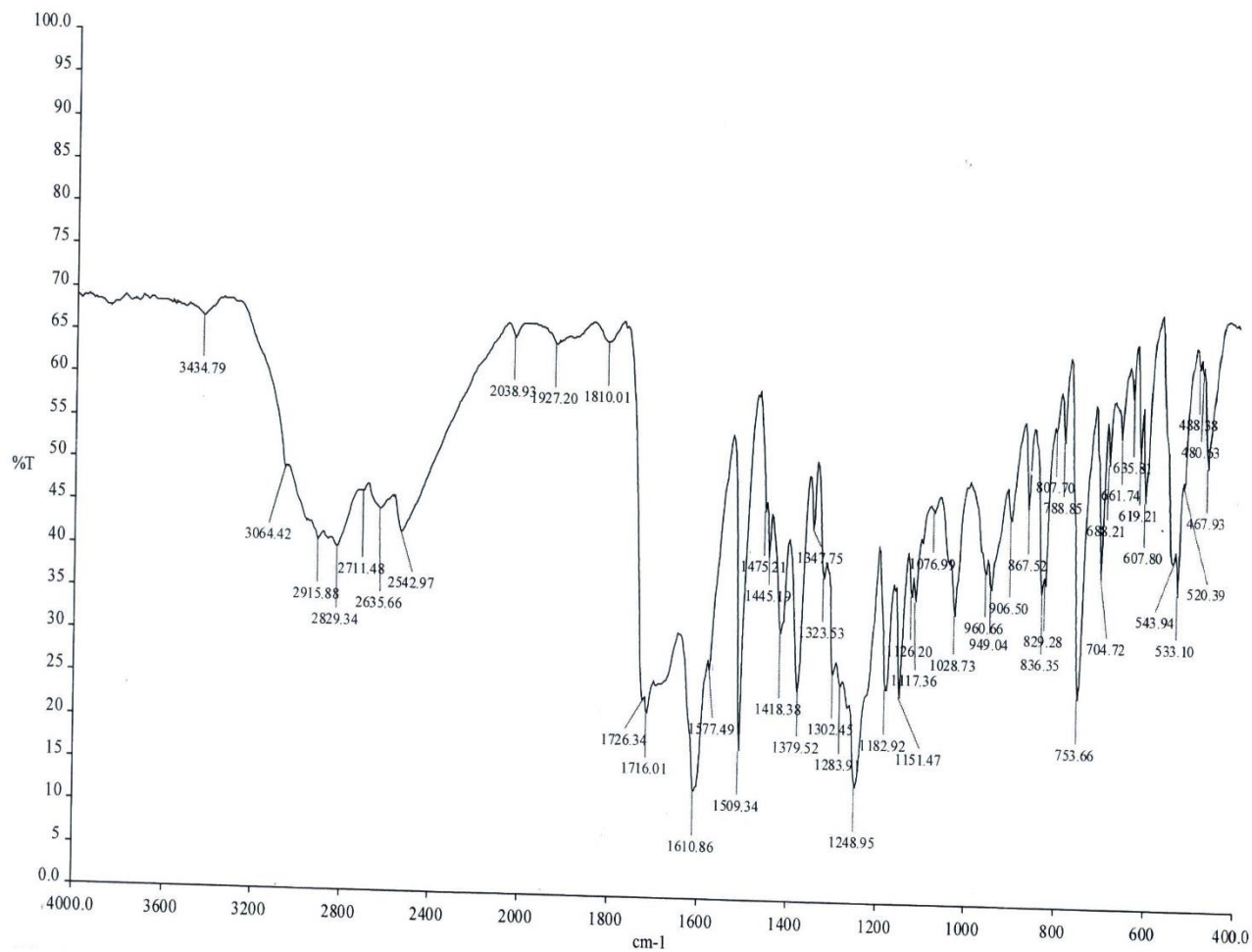


Figure S5 IR spectrum of 4e

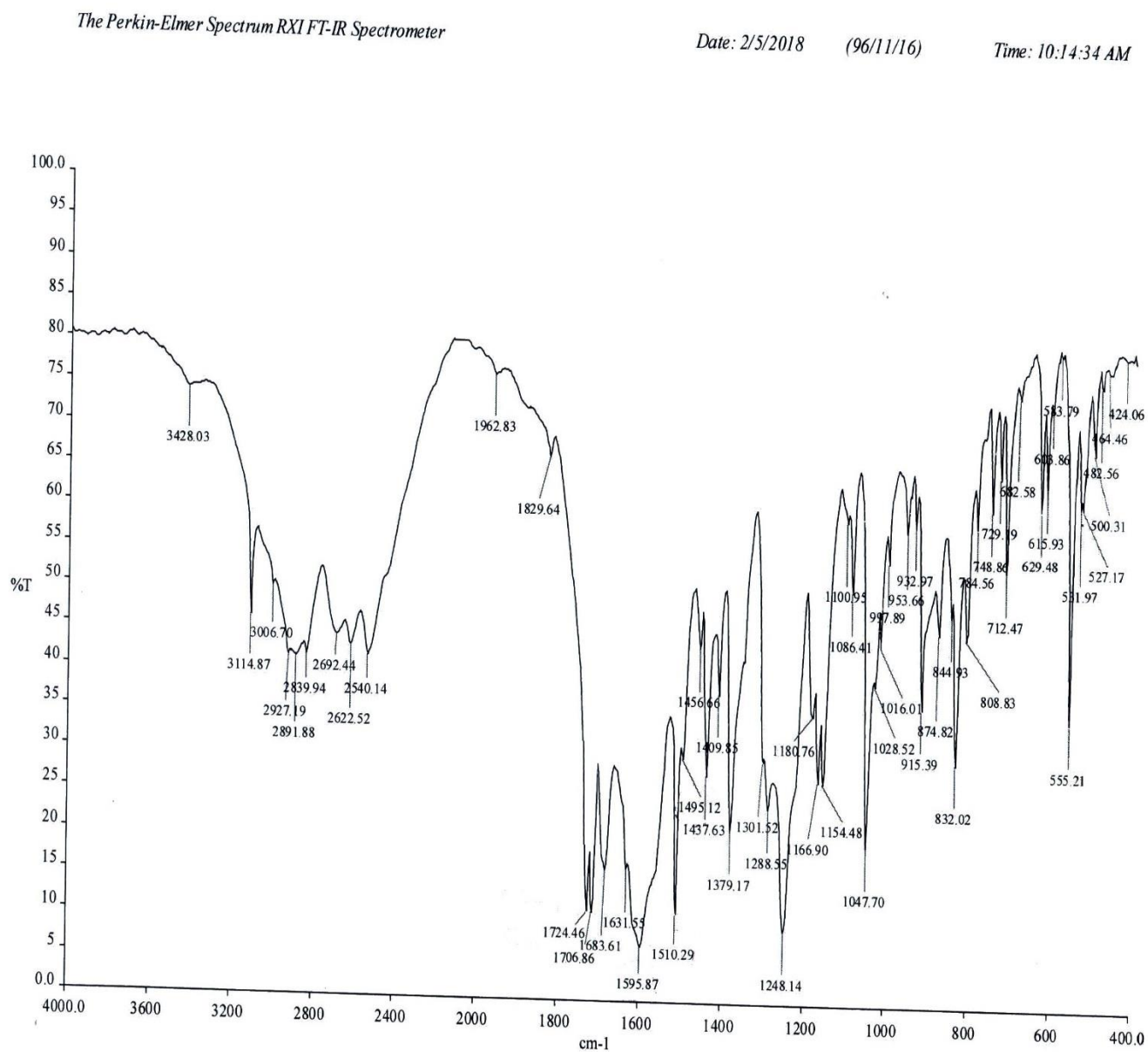


Figure S6 IR spectrum of 4f

The Perkin-Elmer Spectrum RXI FT-IR Spectrometer

Date: 2/5/2018 (96/11/16)

Time: 9:48:22 AM

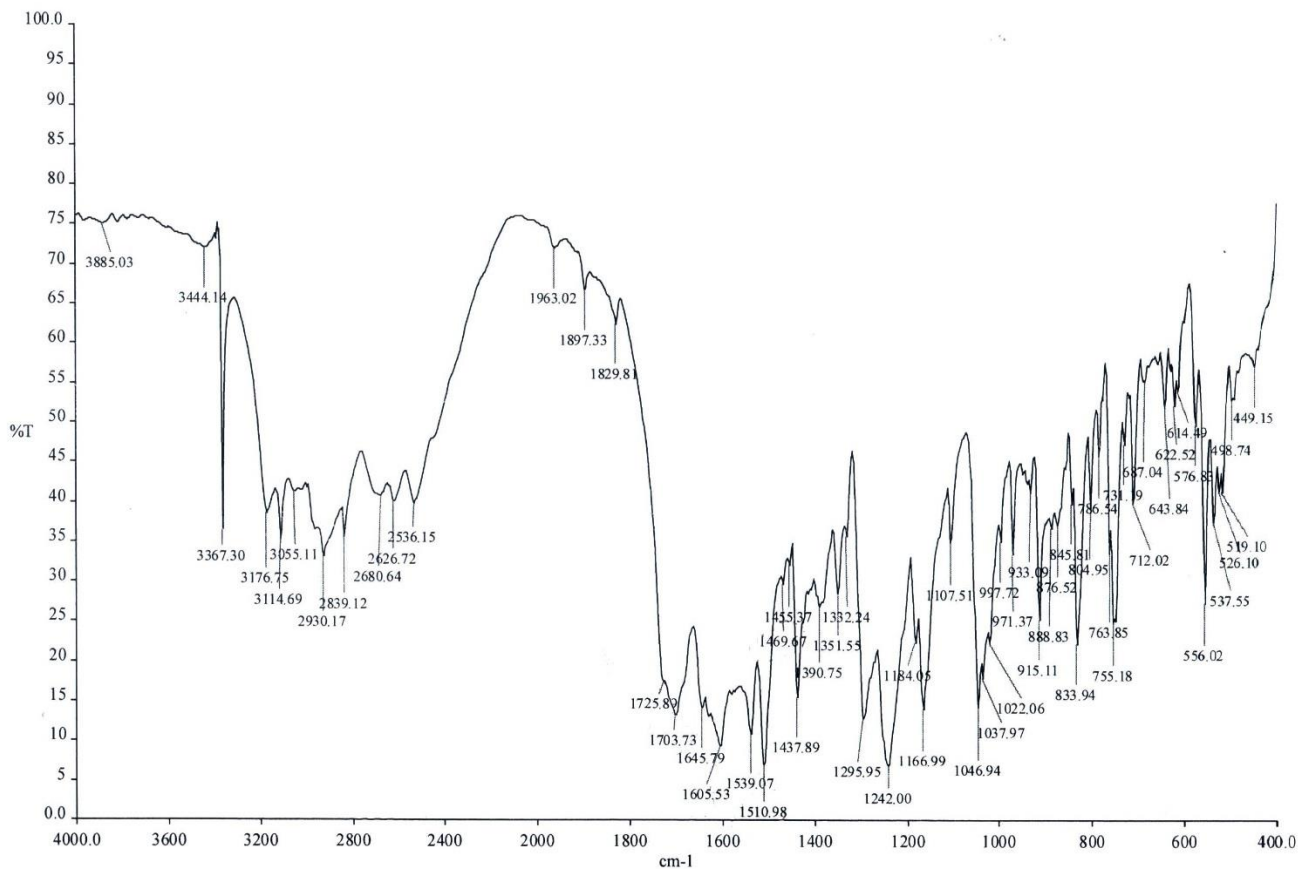


Figure S7 IR spectrum of 4g

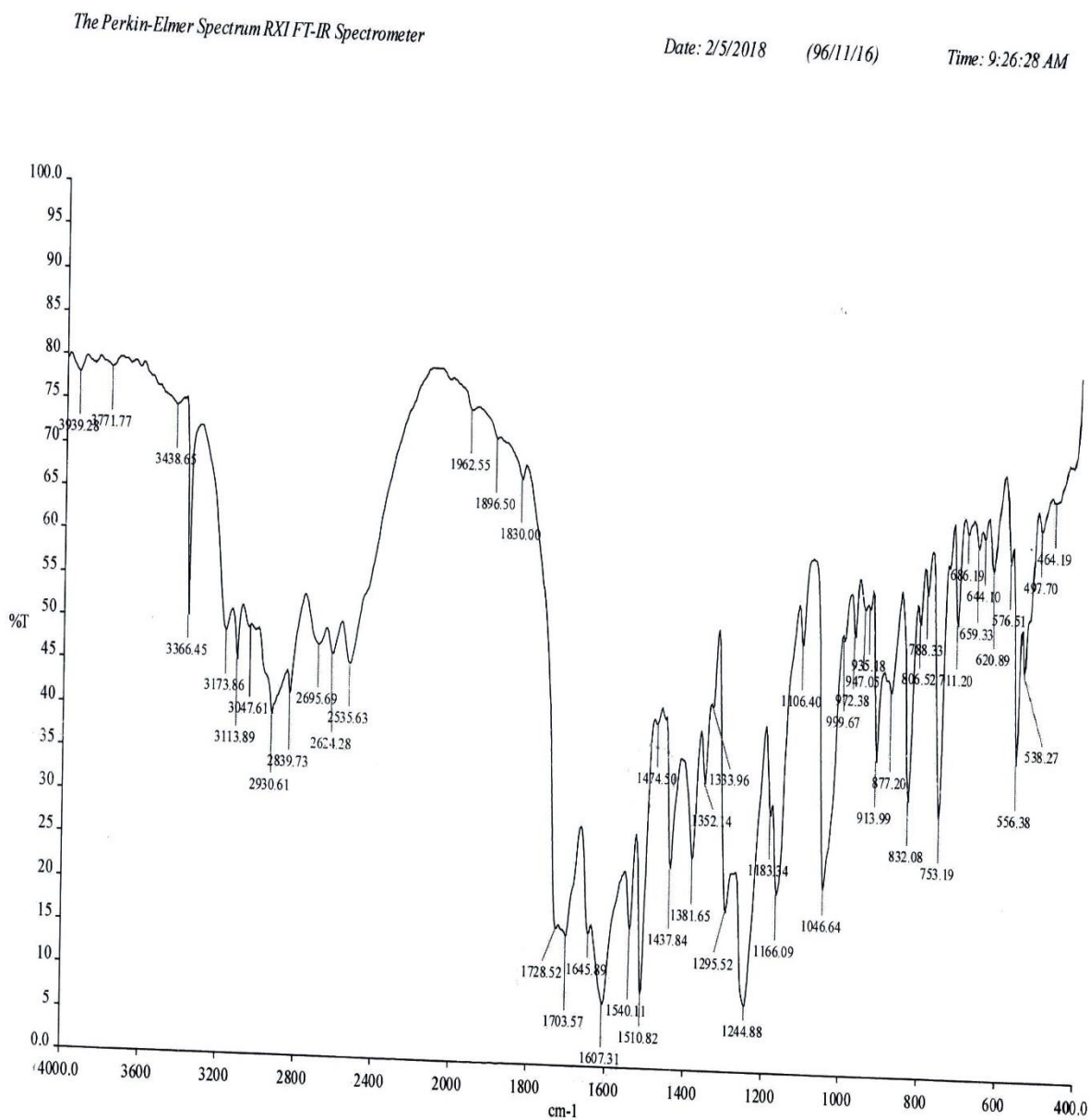


Figure S8 IR spectrum of 4h

The Perkin-Elmer Spectrum RXI FT-IR Spectrometer

Date: 2/14/2017 (95/11/24)

Time: 11:26:38 AM

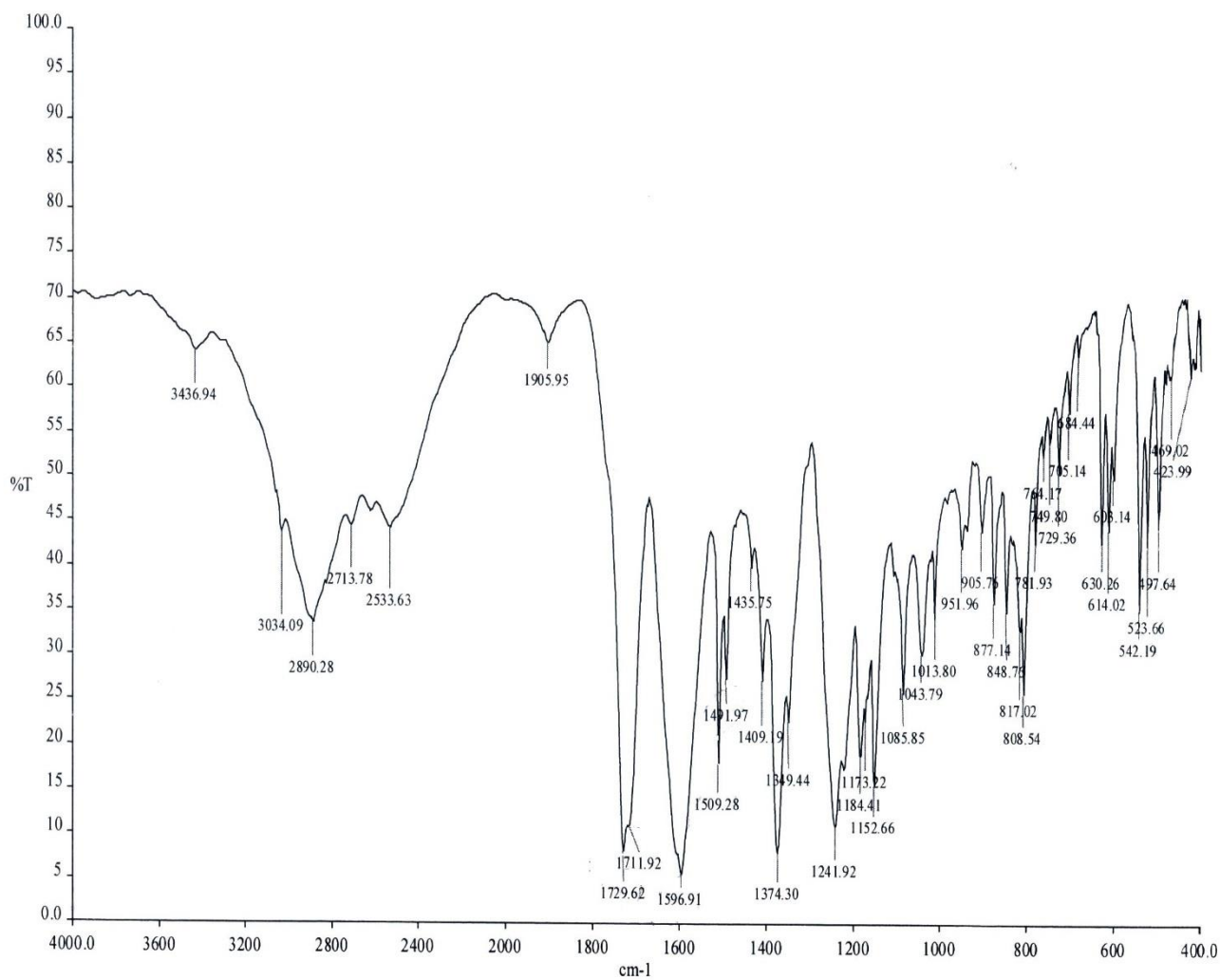


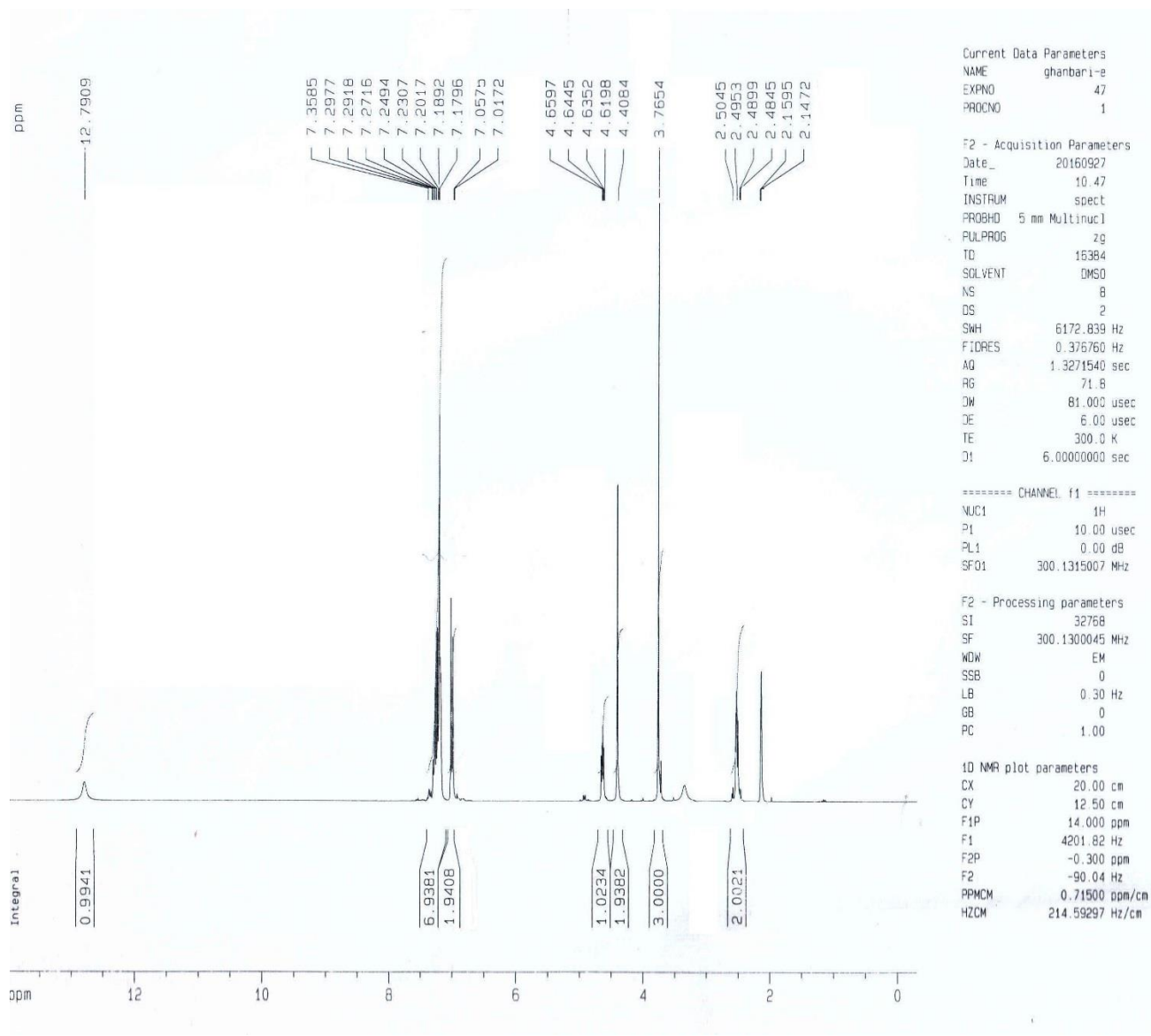
Figure S9 ¹H NMR spectrum of 4a

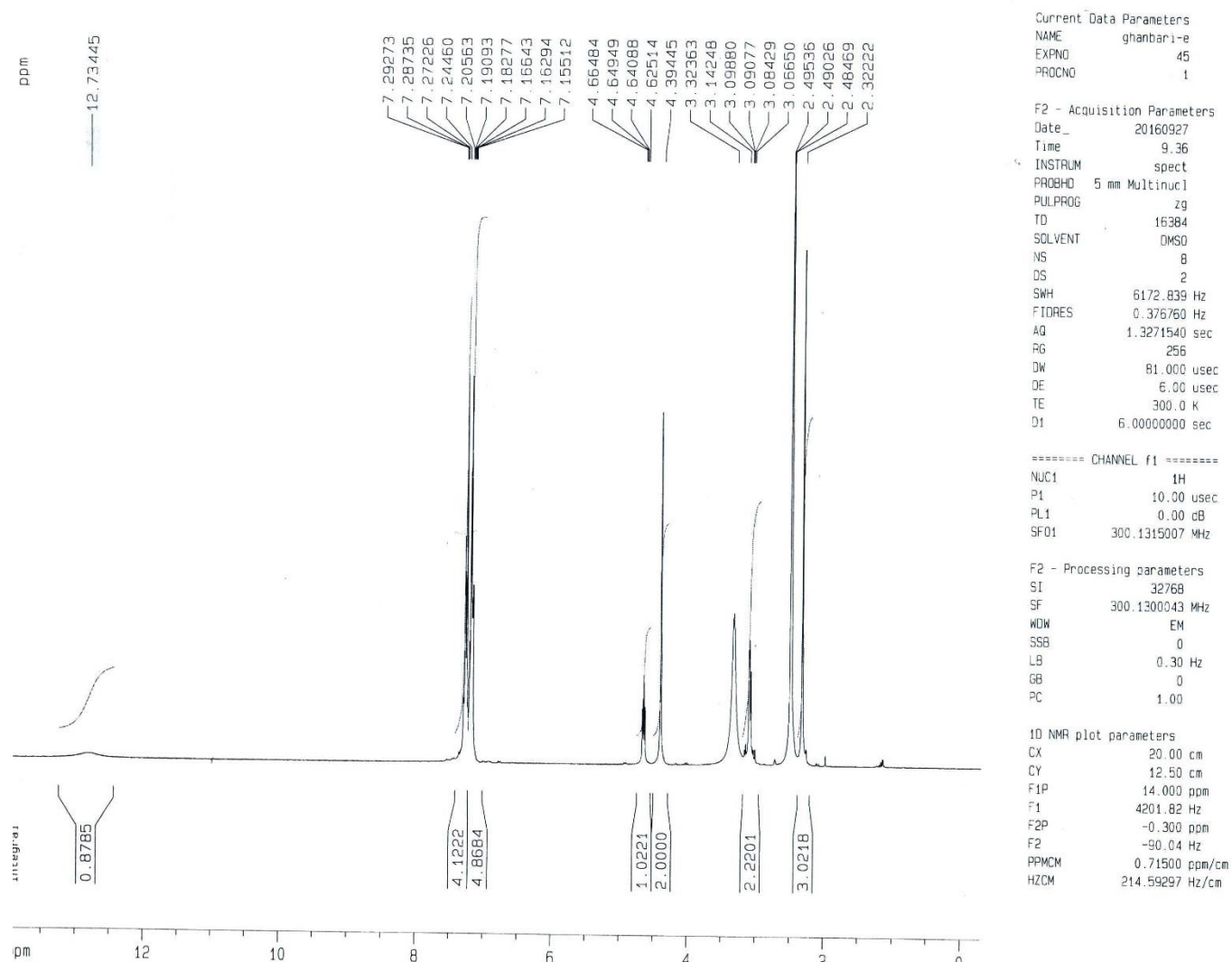
Figure S10 ¹H NMR spectrum of **4b**

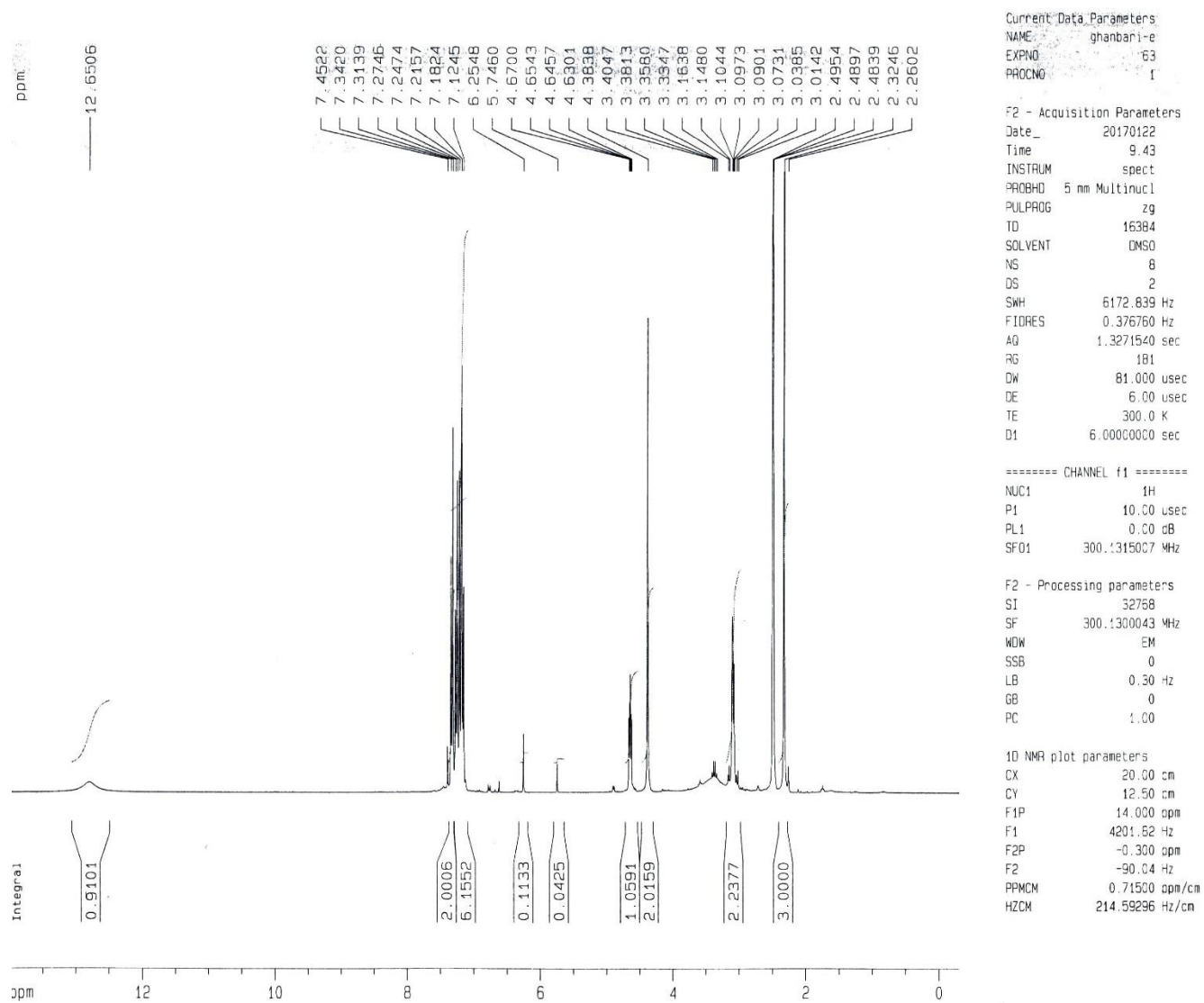
Figure S11 ¹H NMR spectrum of 4c

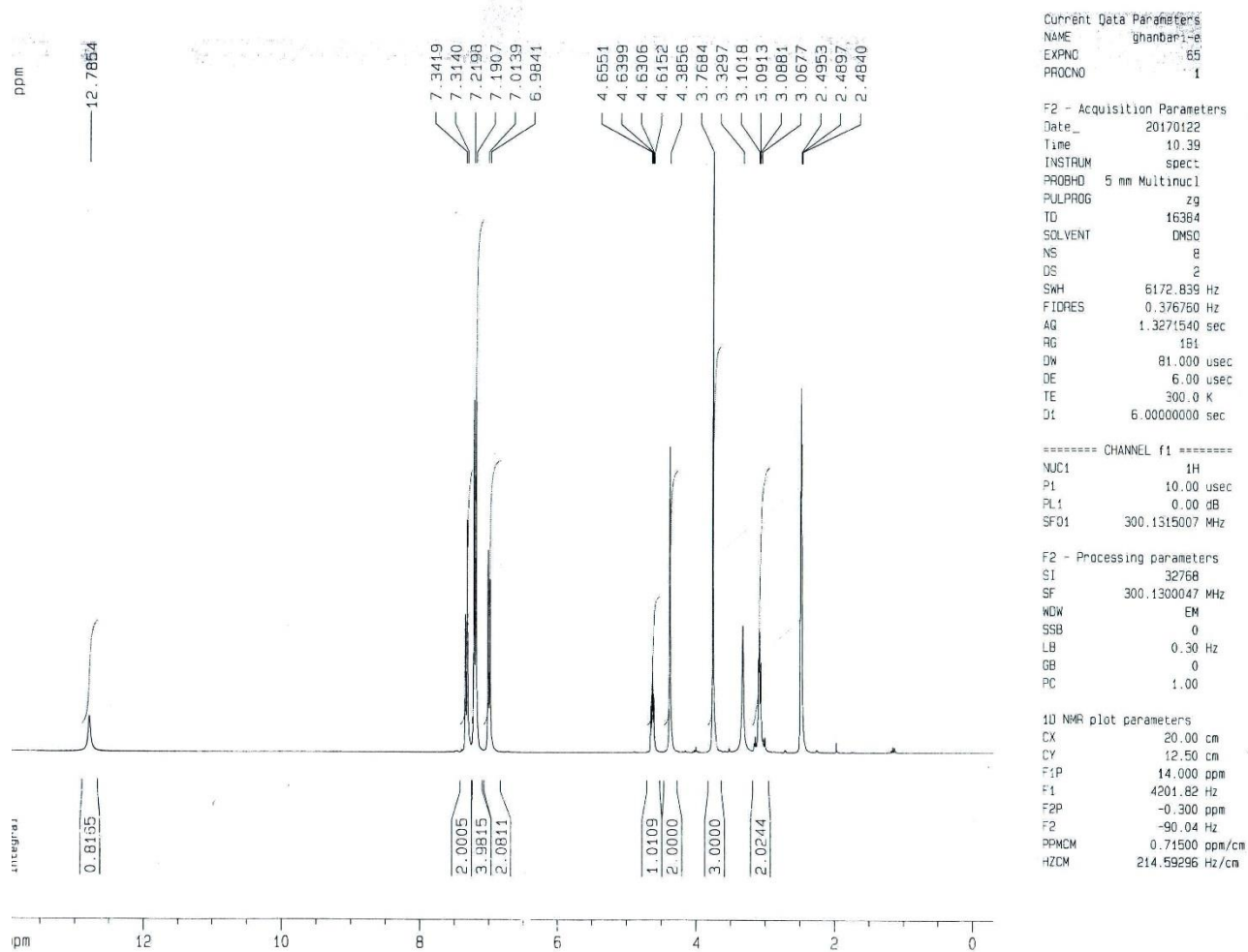
Figure S12 ^1H NMR spectrum of **4d**

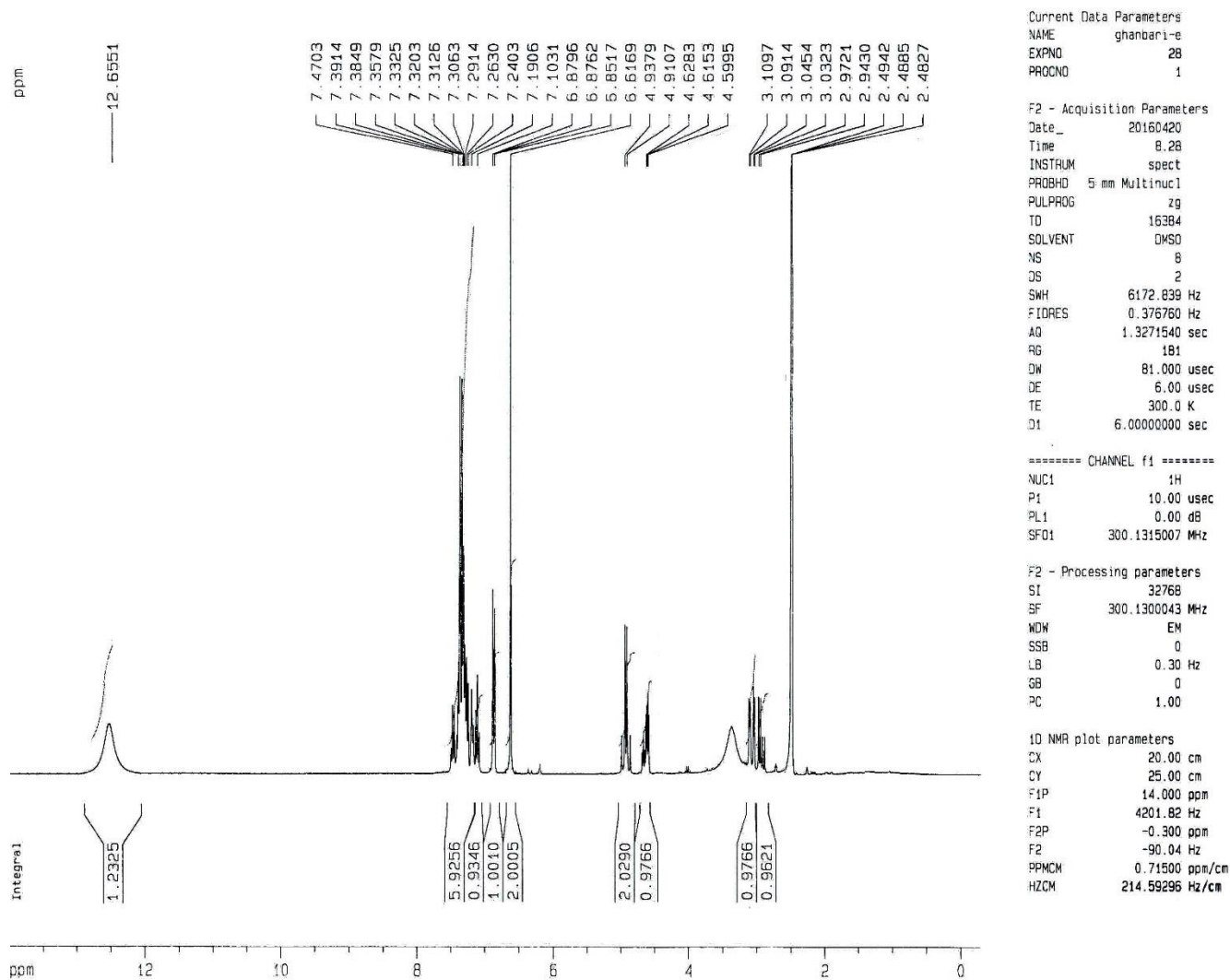
Figure S13 ¹H NMR spectrum of 4e

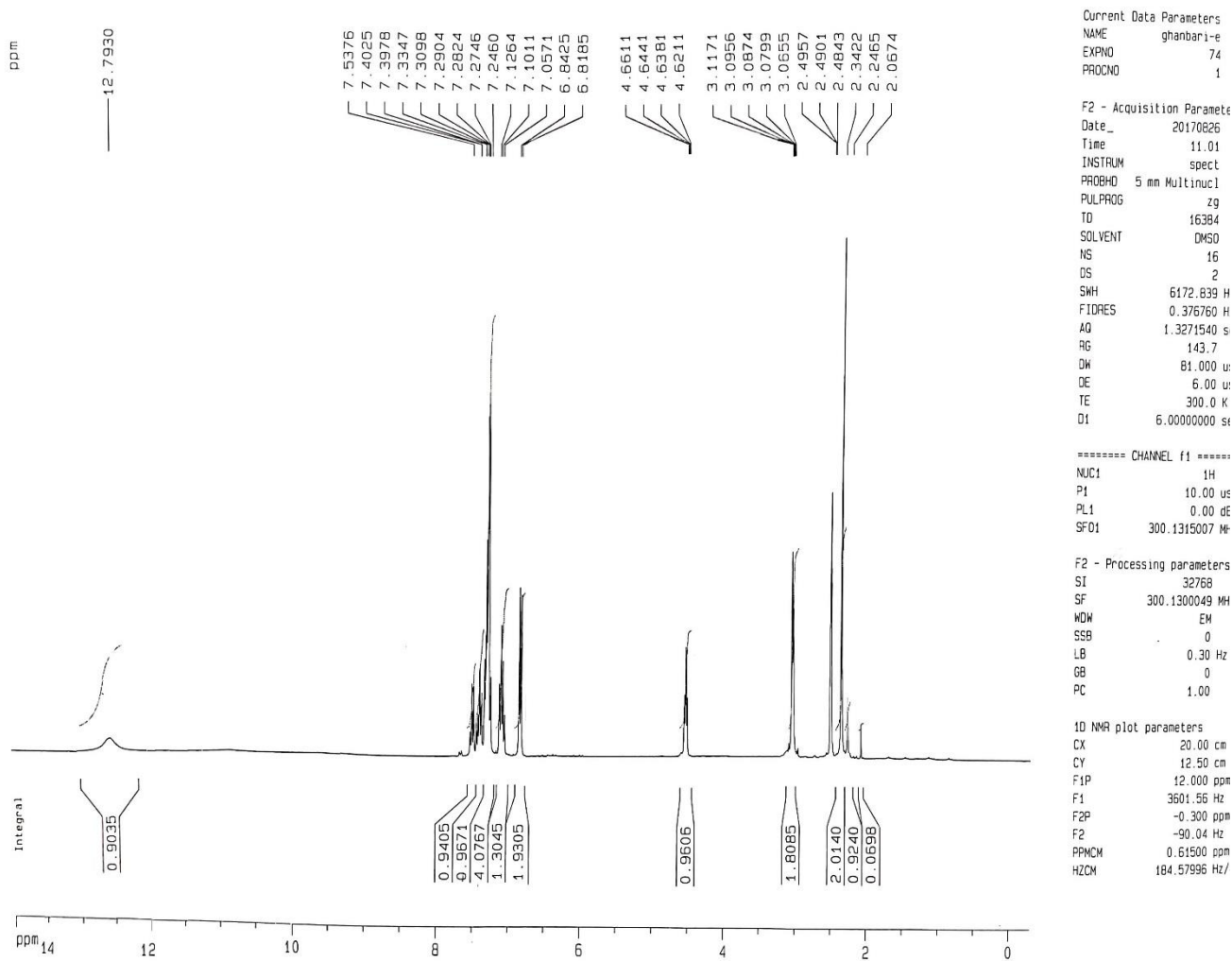
Figure S14 ¹H NMR spectrum of 4f

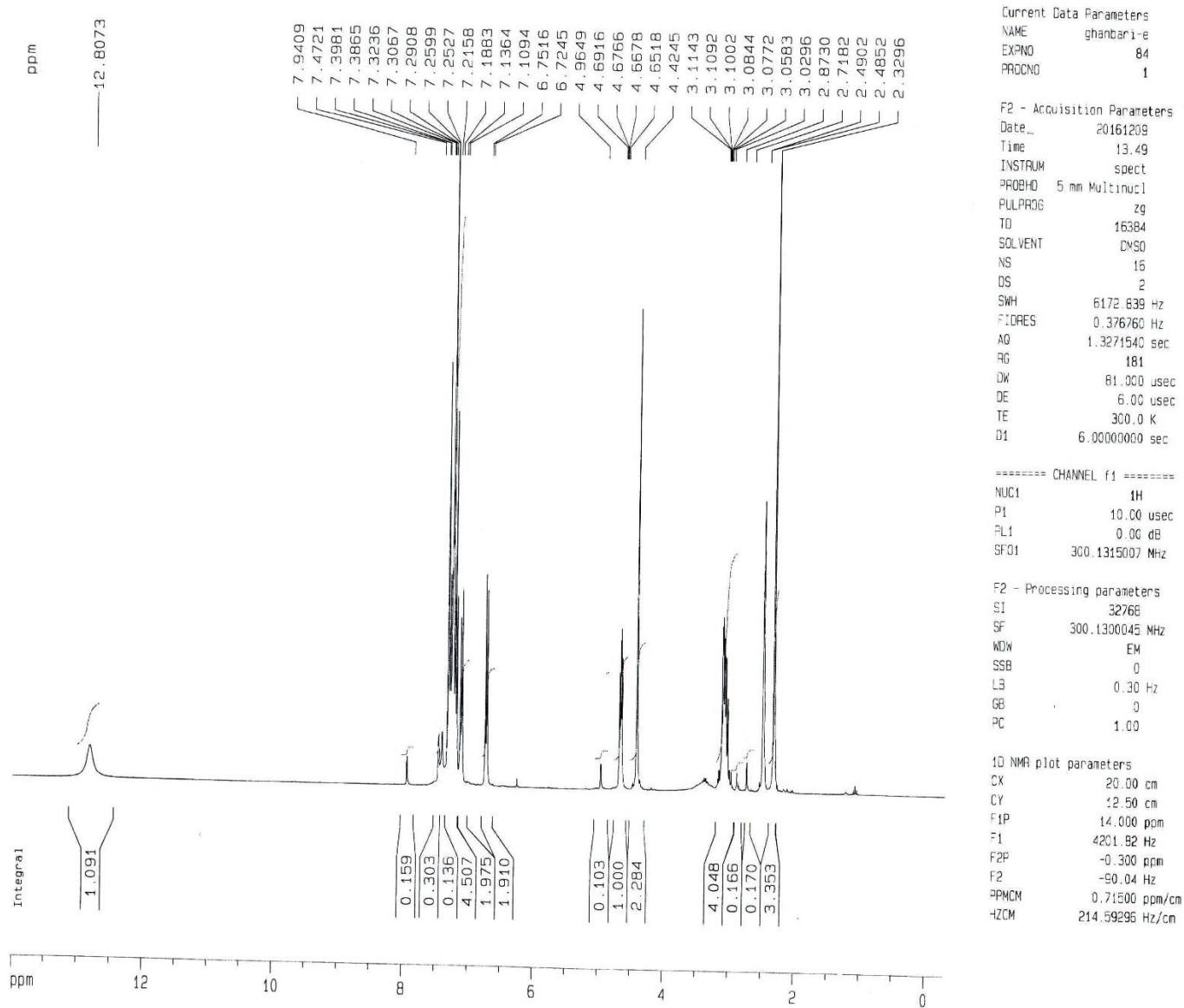
Figure S15 ¹H NMR spectrum of 4g

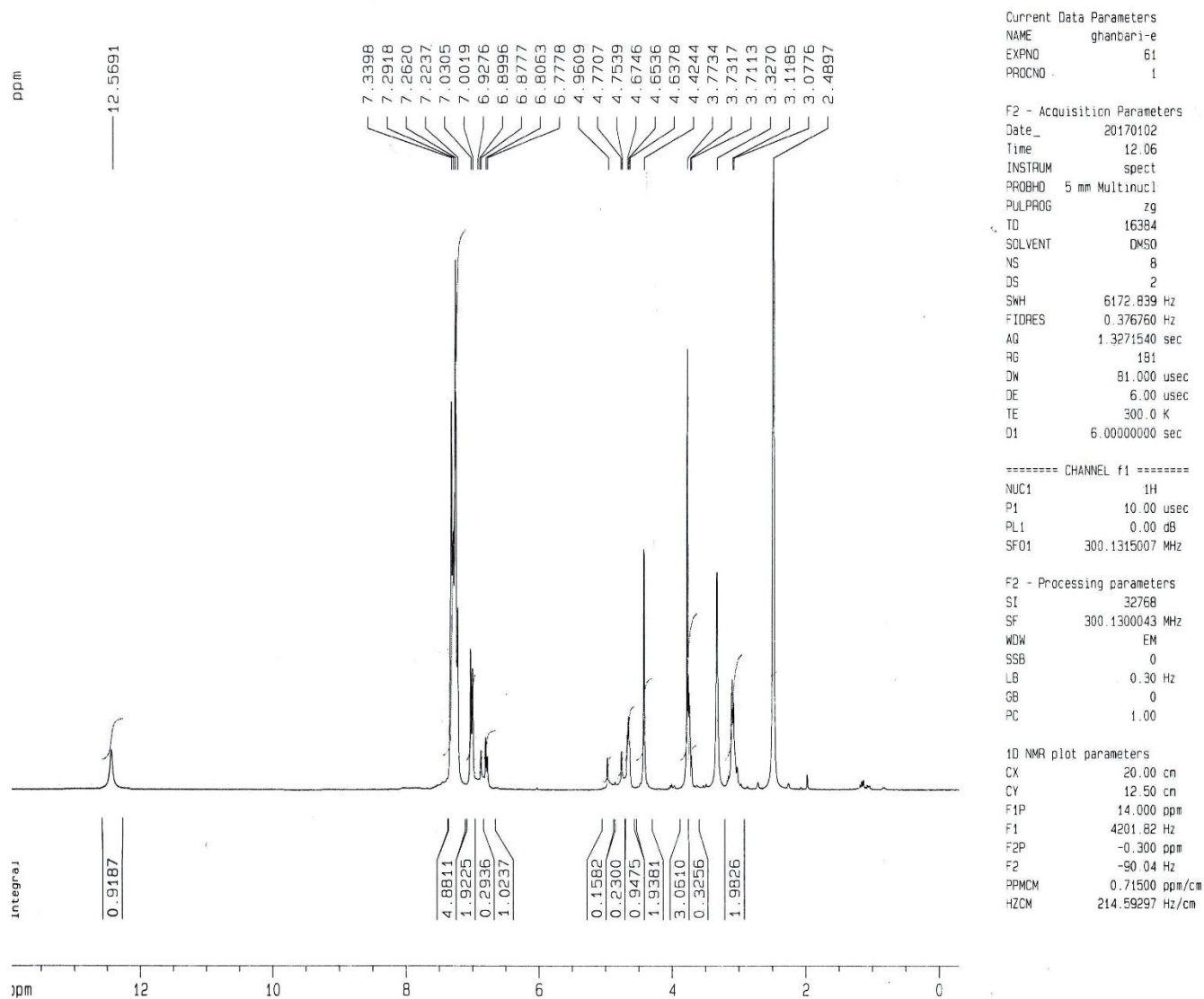
Figure S16 ¹H NMR spectrum of 4h

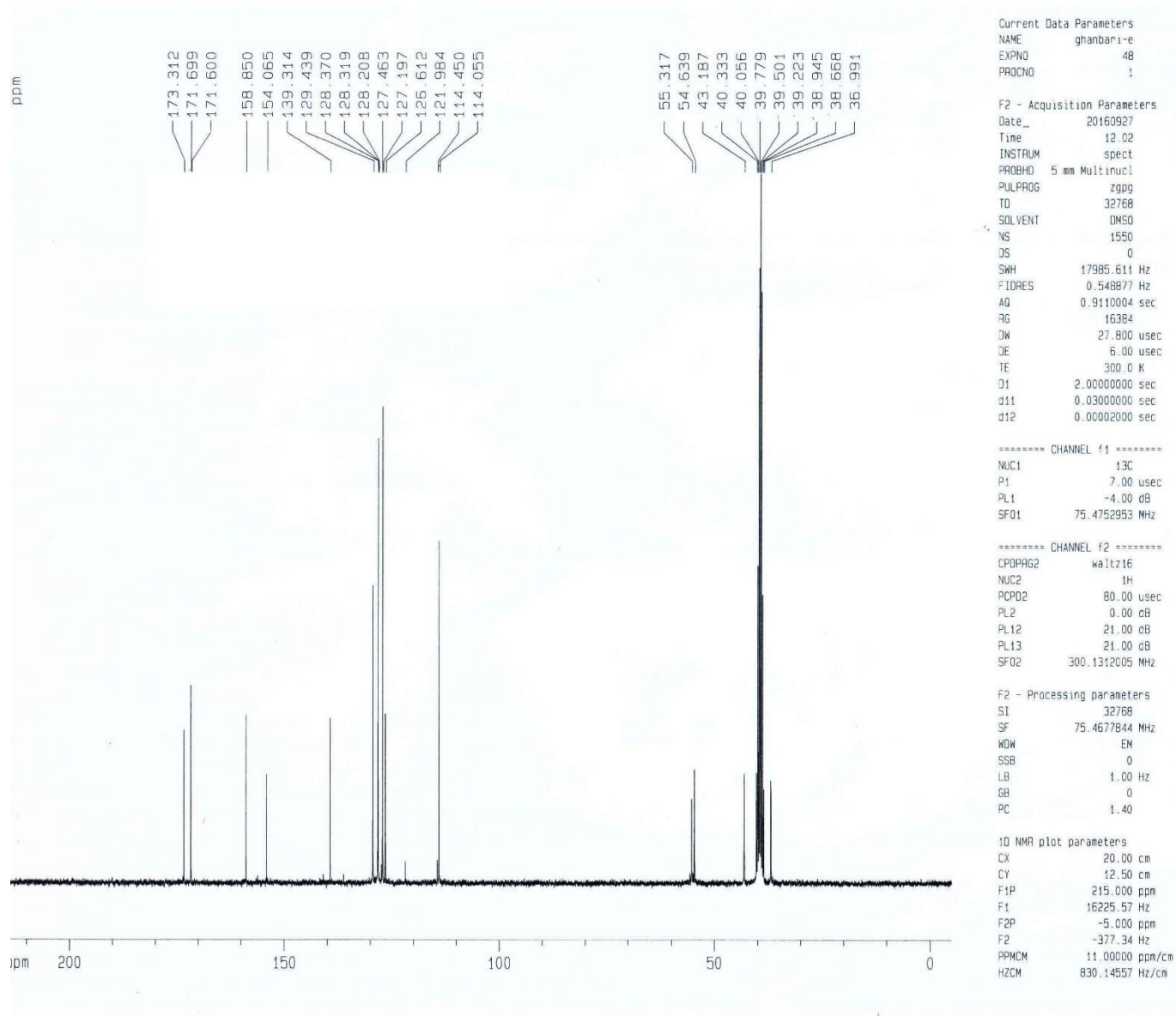
Figure S17 ^{13}C NMR spectrum of 4a

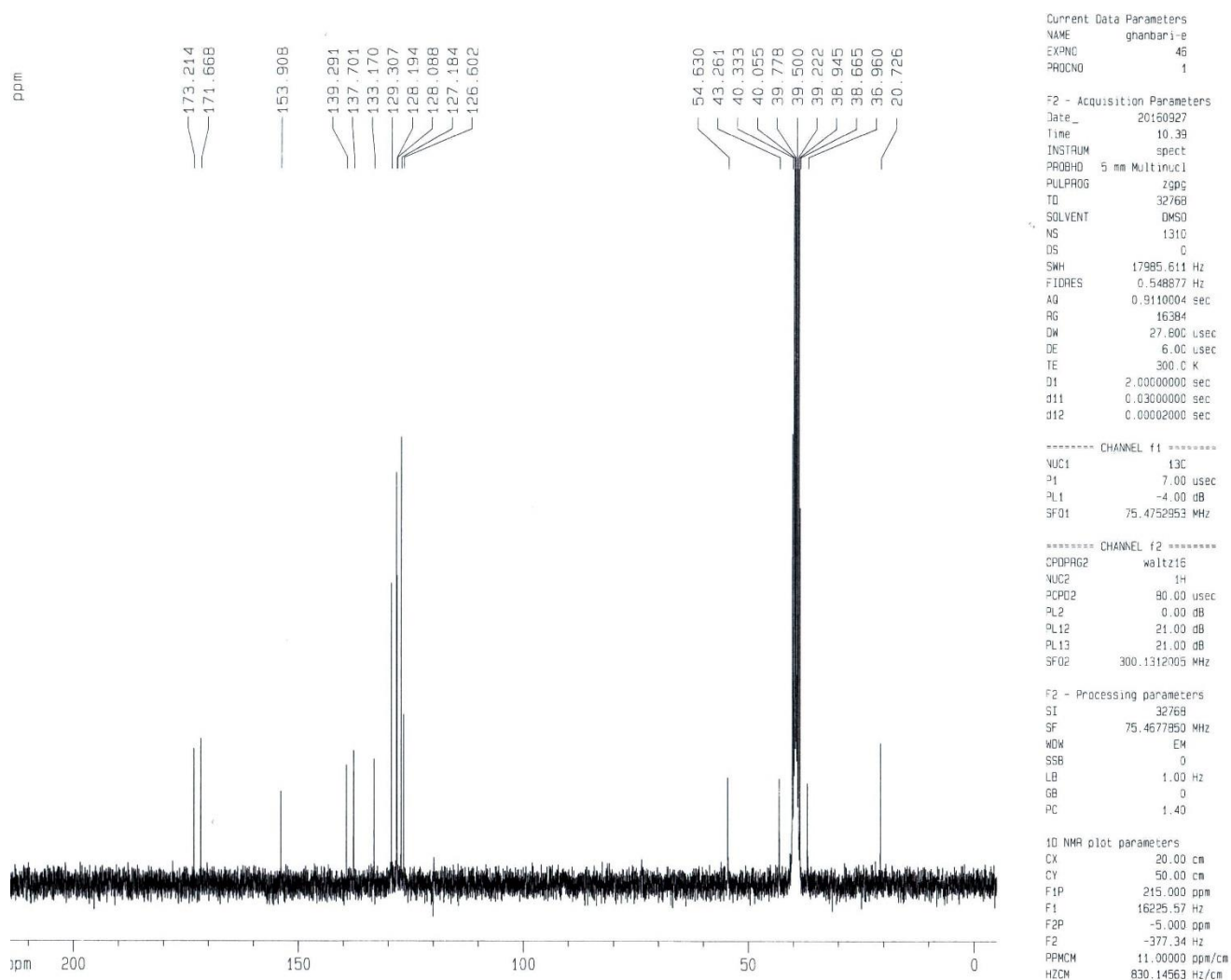
Figure S18 ^{13}C NMR spectrum of **4b**

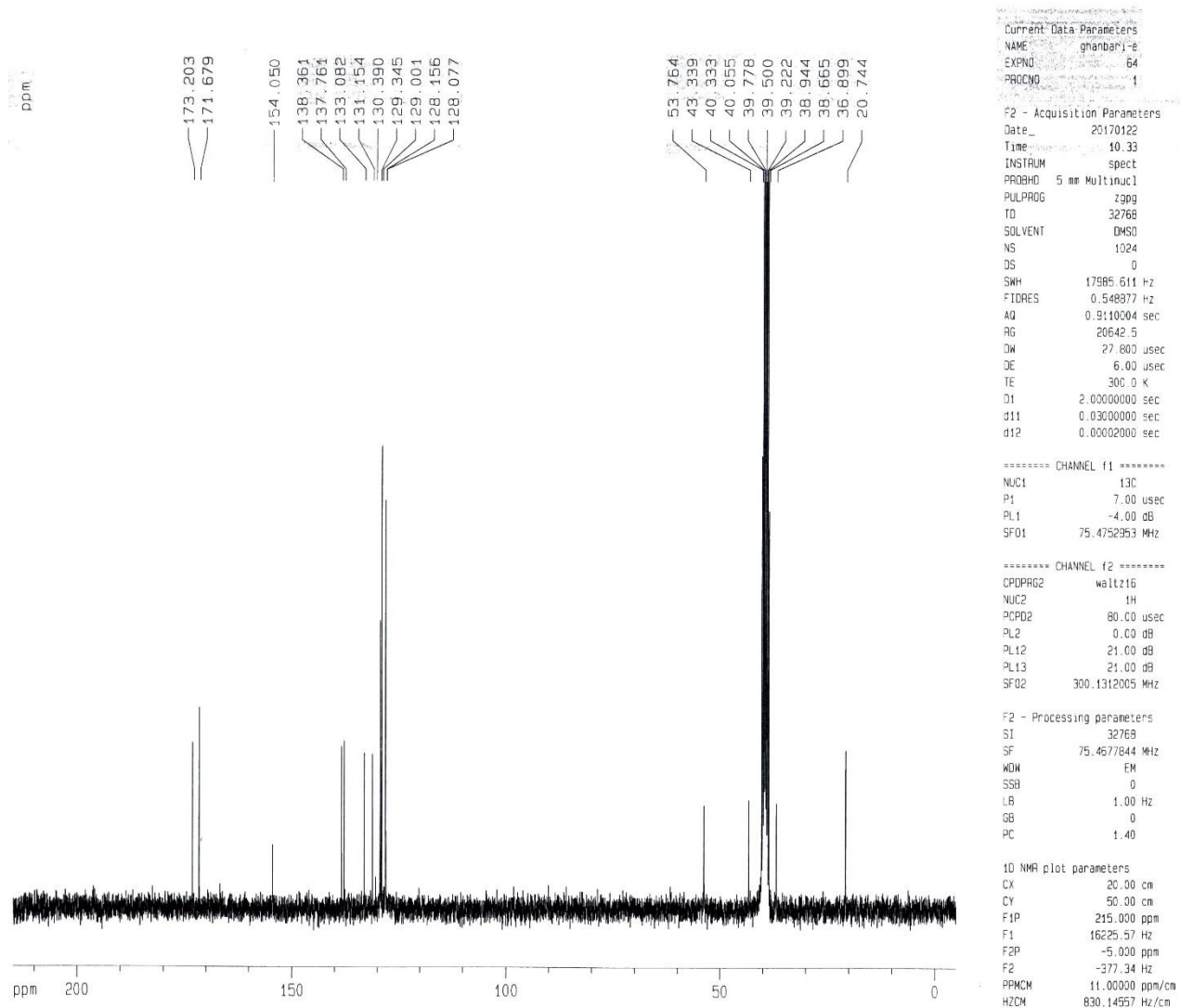
Figure S19 ^{13}C NMR spectrum of 4c

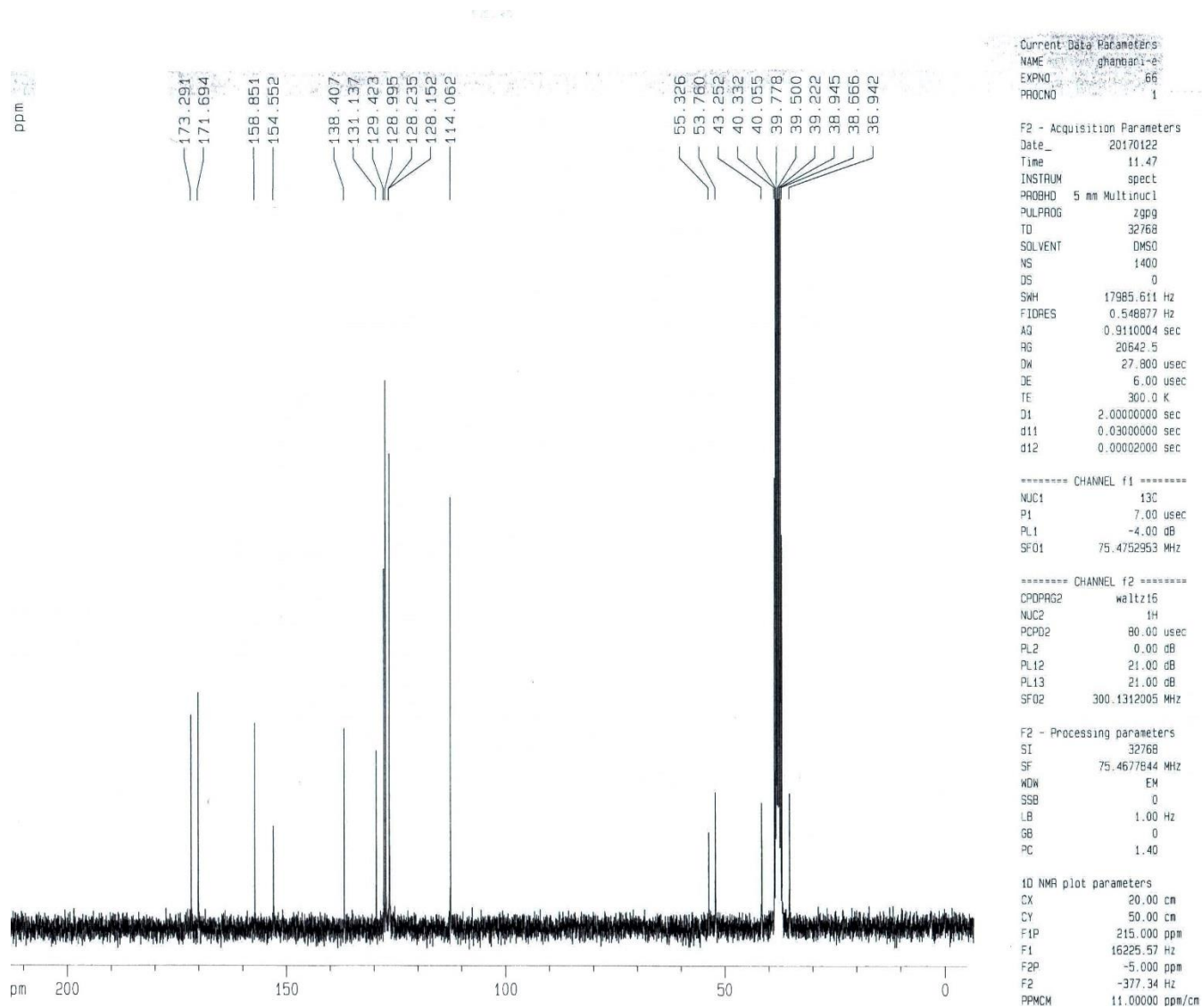
Figure S20 ^{13}C NMR spectrum of **4d**

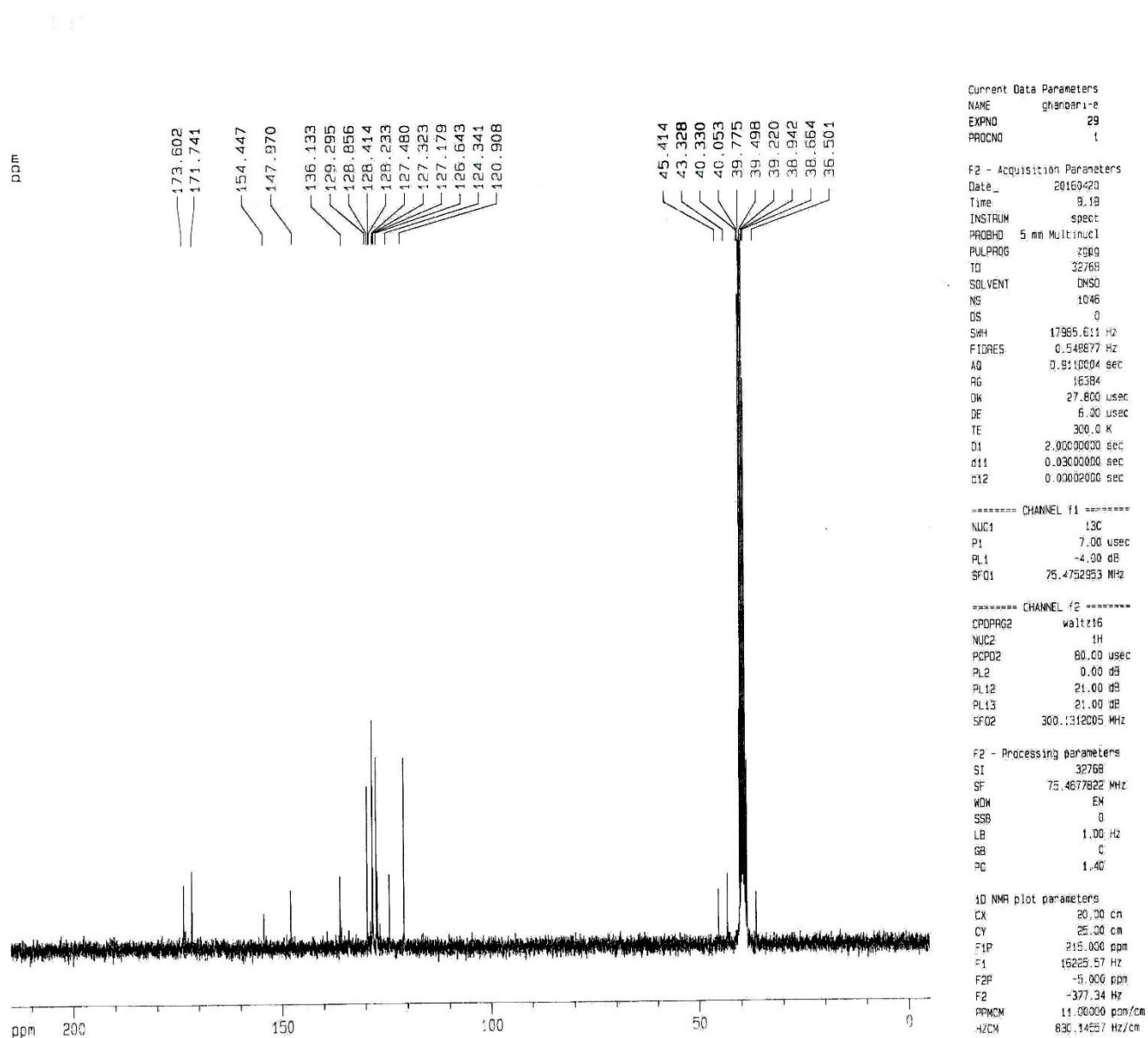
Figure S21 ^{13}C NMR spectrum of 4e

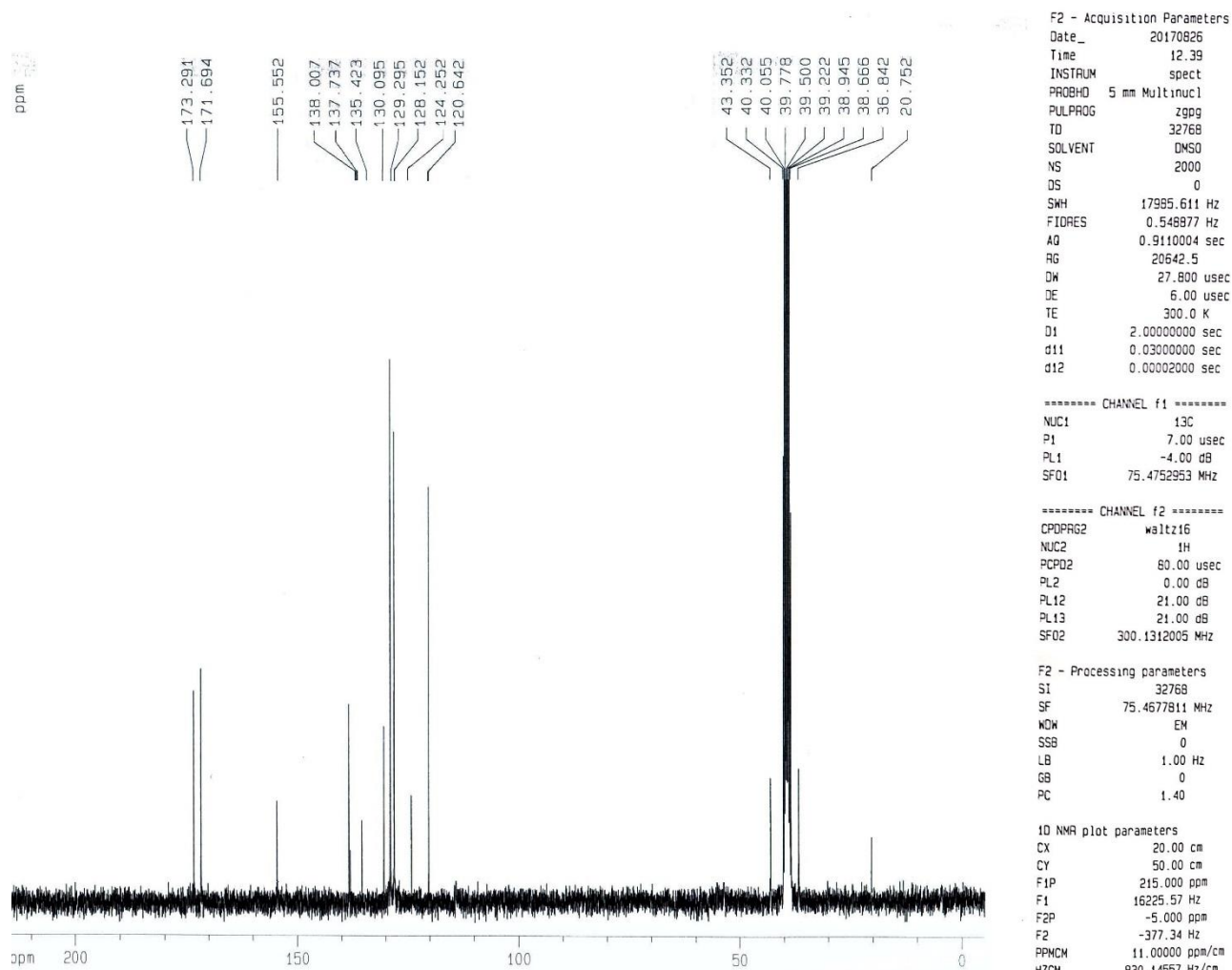
Figure S22 ^{13}C NMR spectrum of **4f**

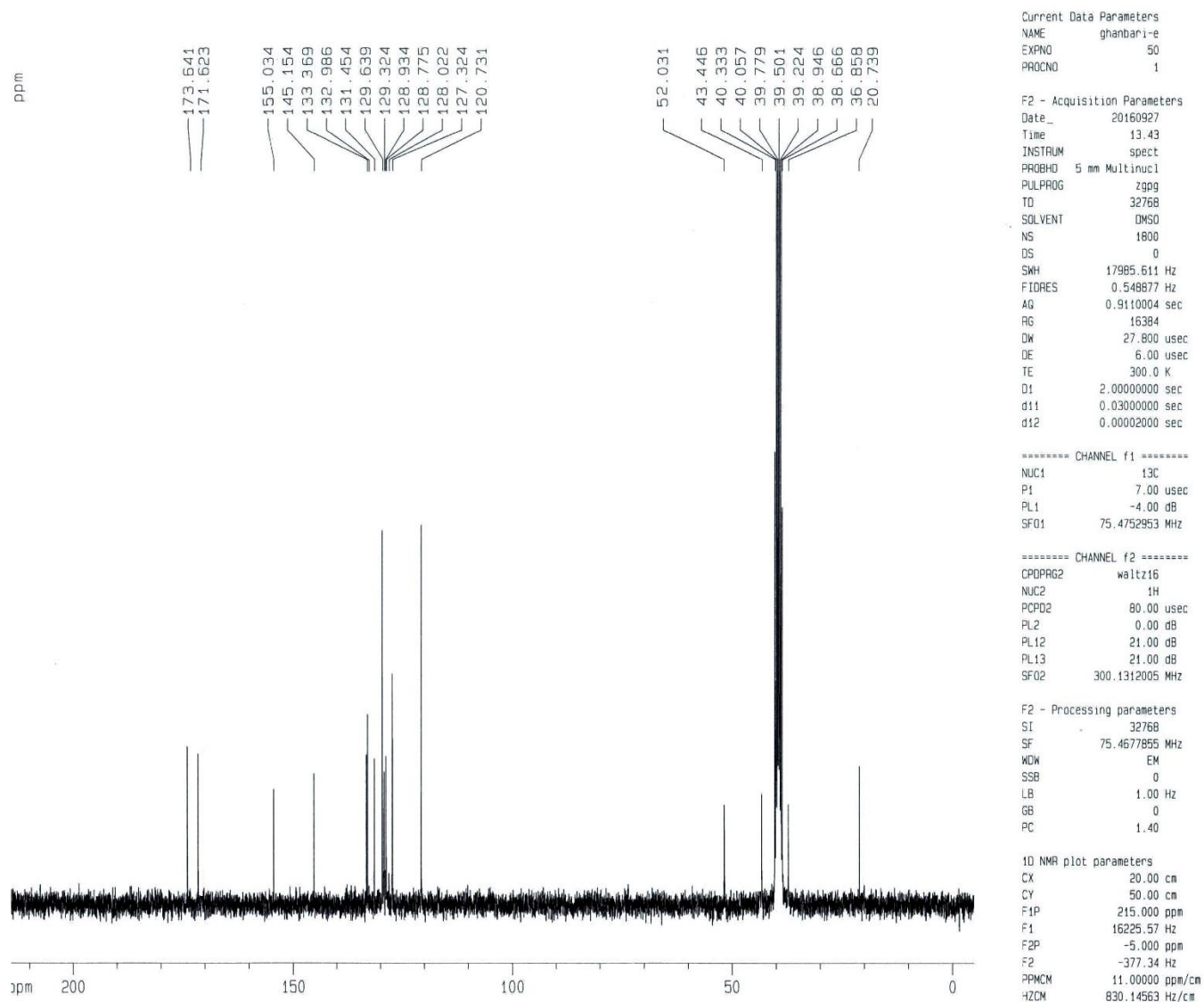
Figure S23 ¹³C NMR spectrum of 4g

Figure S24 ^{13}C NMR spectrum of 4h