

Supplementary Material

Protecting-group-free synthesis of carboxylic group substituted alkynes by Sonogashira coupling in neat water

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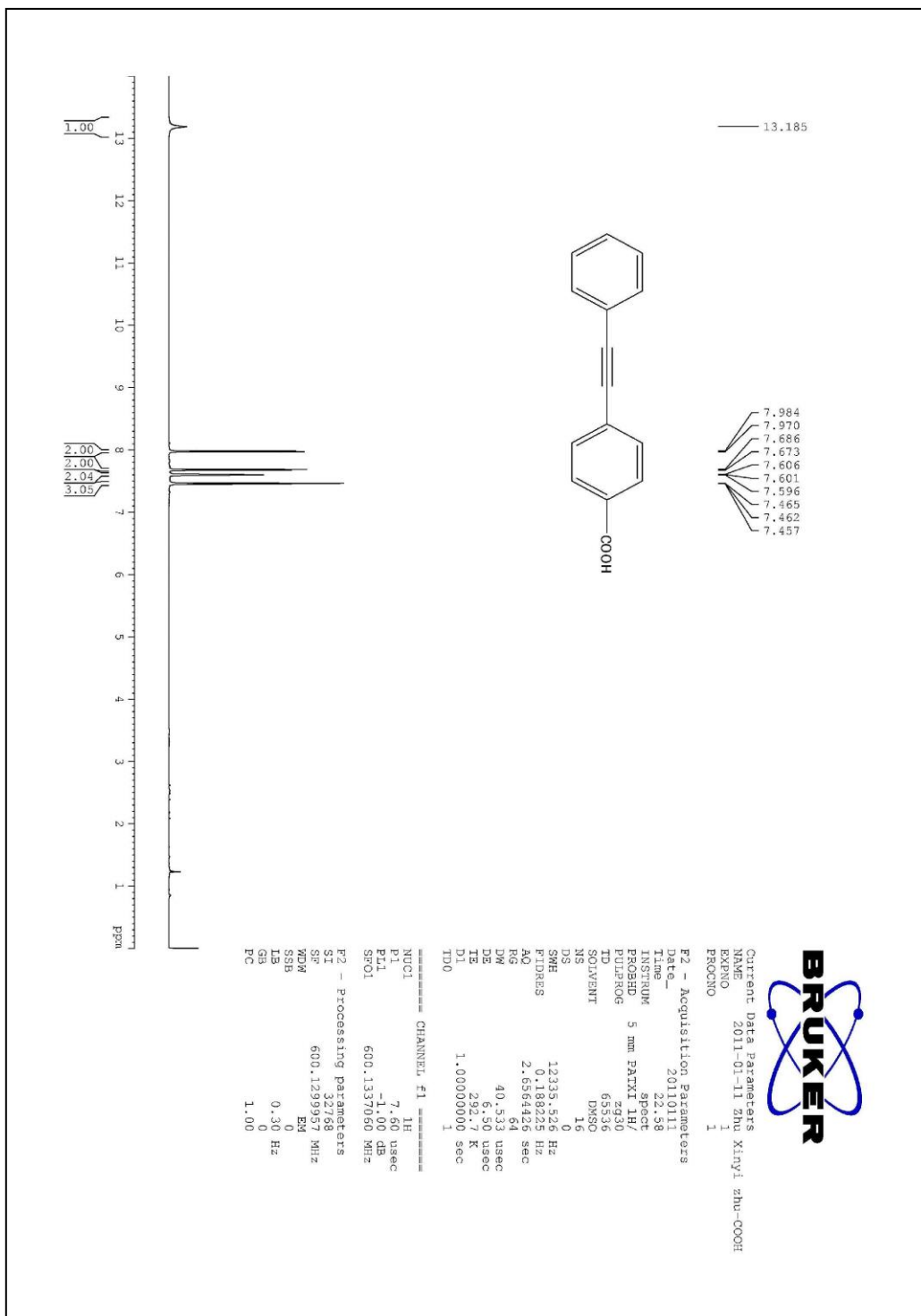
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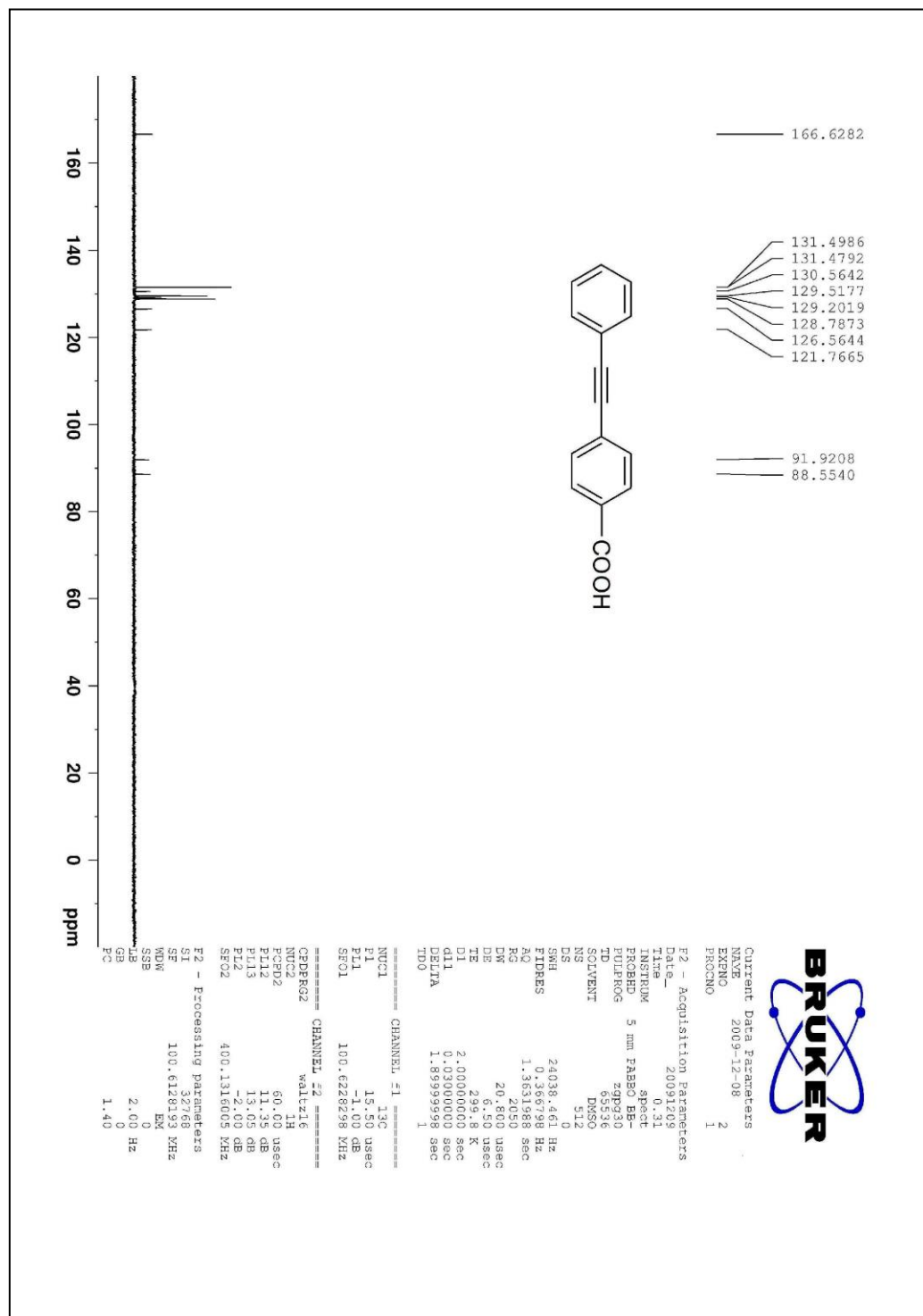
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1. NMR spectra for compounds (3a-3e)

Figure S1. ¹H NMR spectrum of the compound 3a.

Figure S2. ¹³C NMR spectrum of the compound 3a.

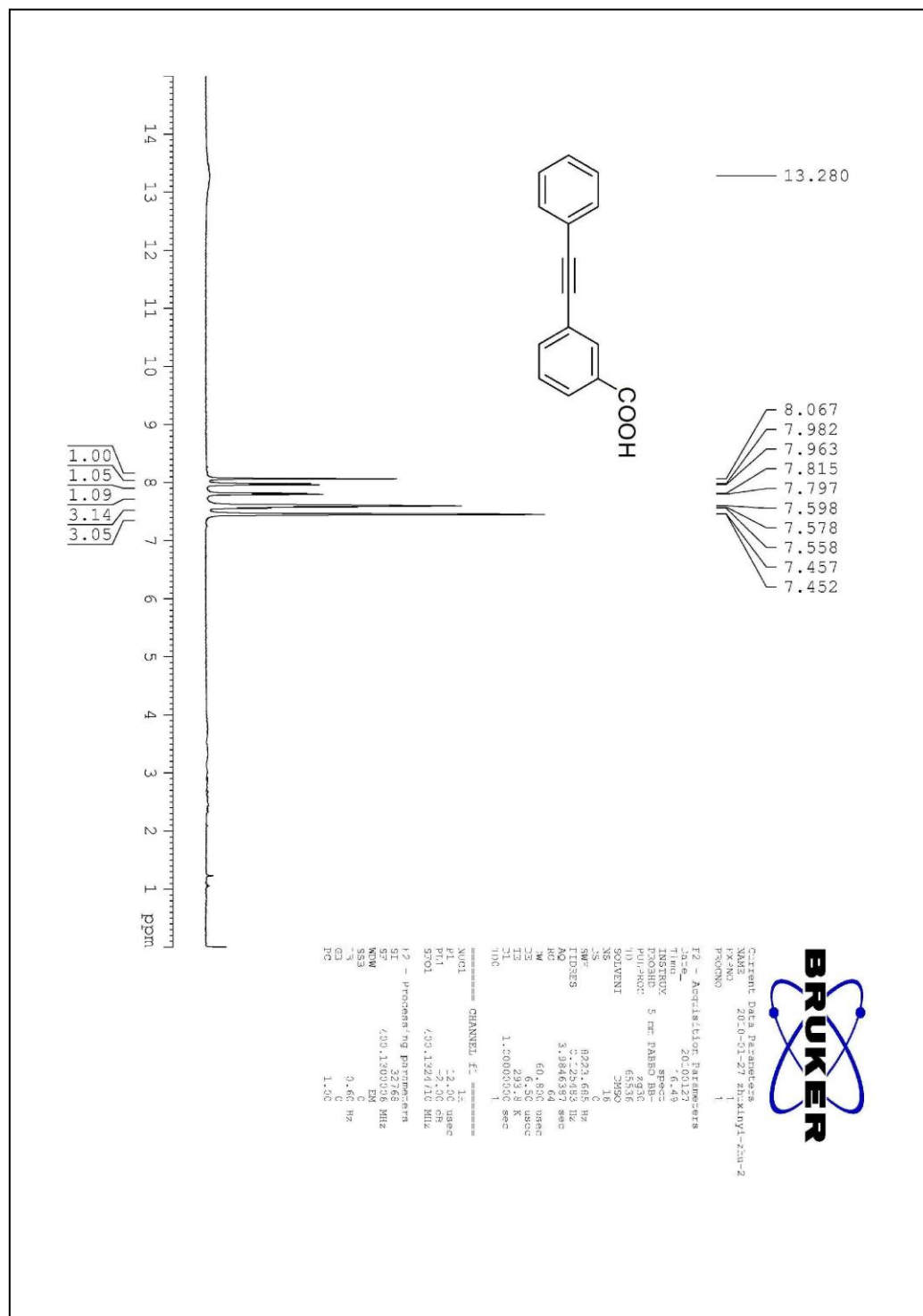


Figure S3. ¹H NMR spectrum of the compound 3b.

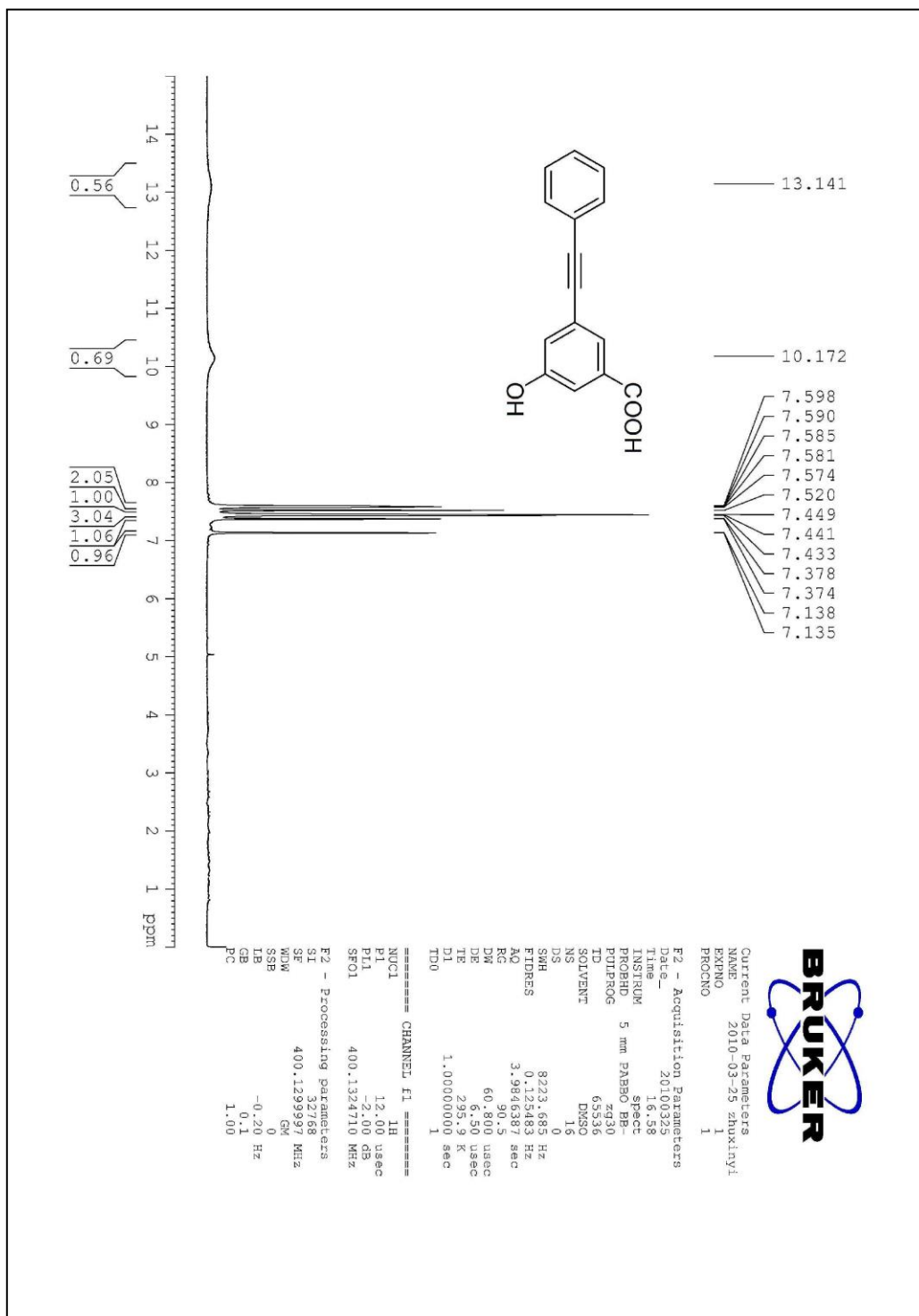


Figure S5. ¹H NMR spectrum of the compound **3c**.

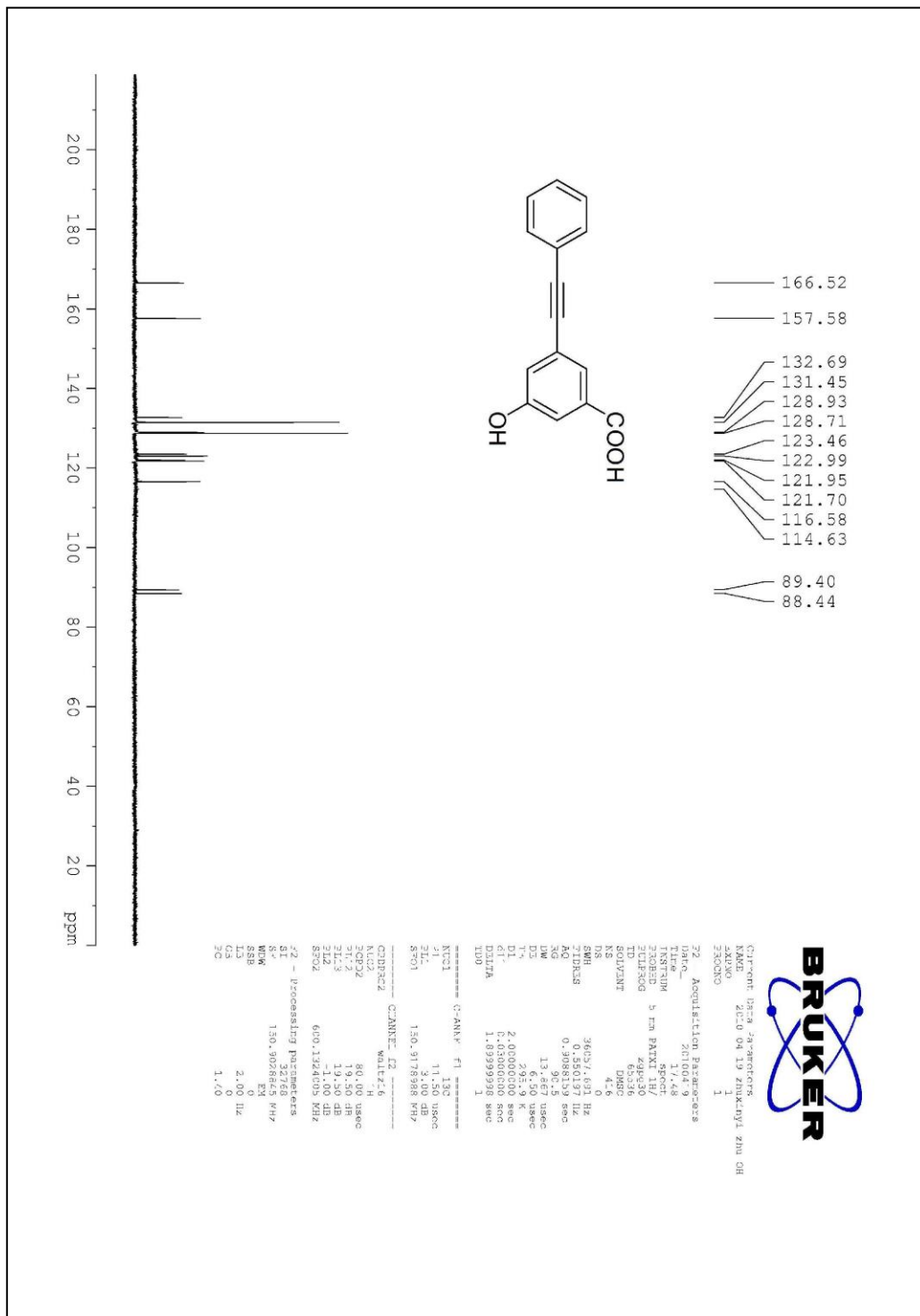


Figure S6. ¹³C NMR spectrum of the compound 3c.

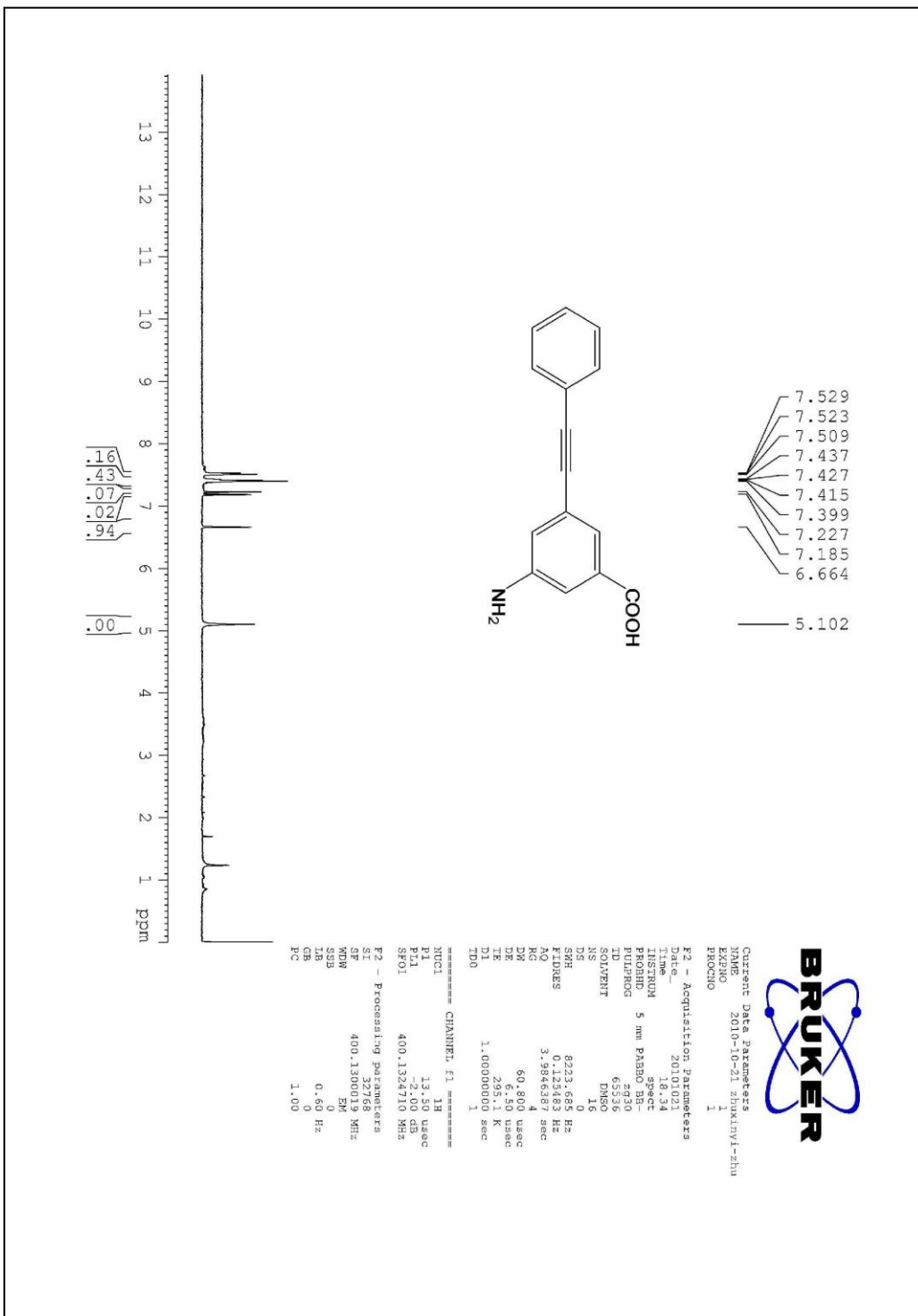


Figure S7. ¹H NMR spectrum of the compound 3d.

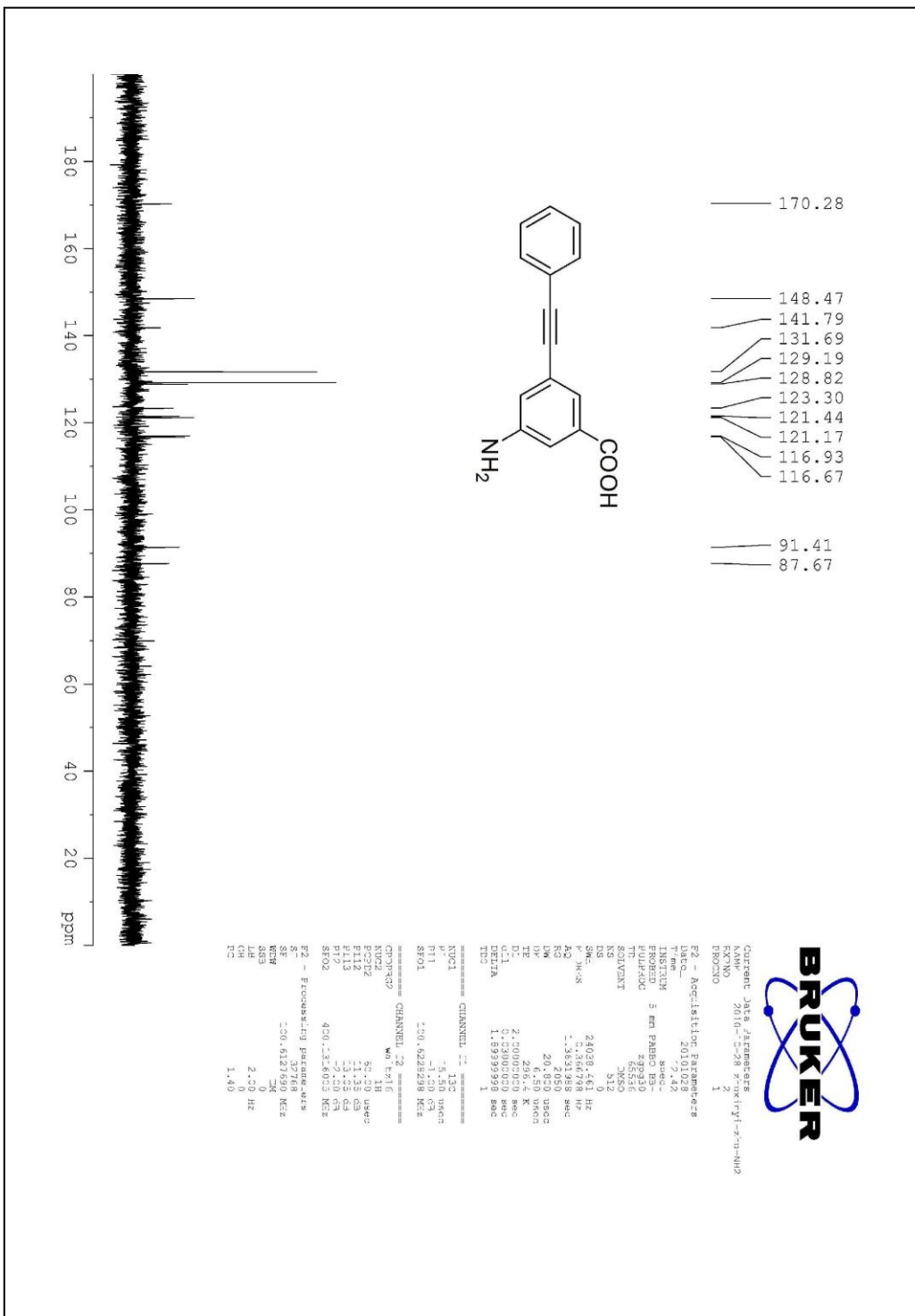


Figure S8. ¹³C NMR spectrum of the compound 3d.

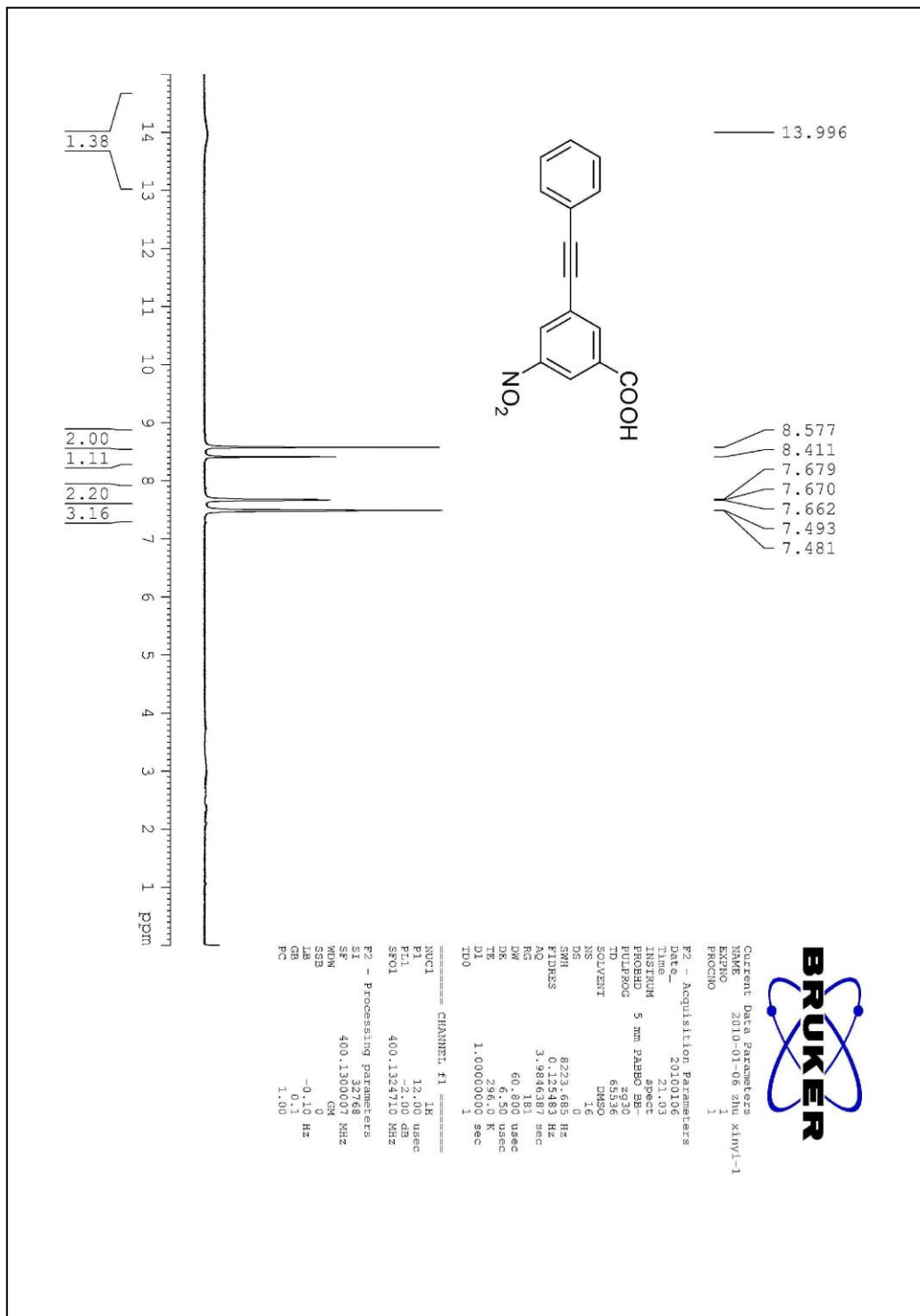


Figure S9. ¹H NMR spectrum of the compound 3e.

