

Copper-catalyzed one-pot synthesis of *N*-sulfonyl amidines from sulfonyl hydrazine, 1-alkynes, and *N*-sulfonyl azides

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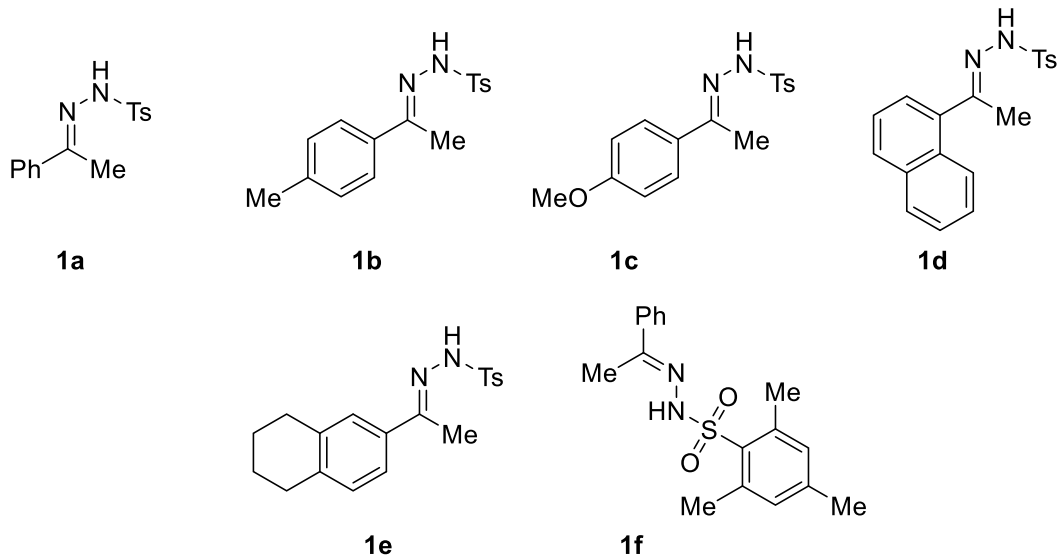
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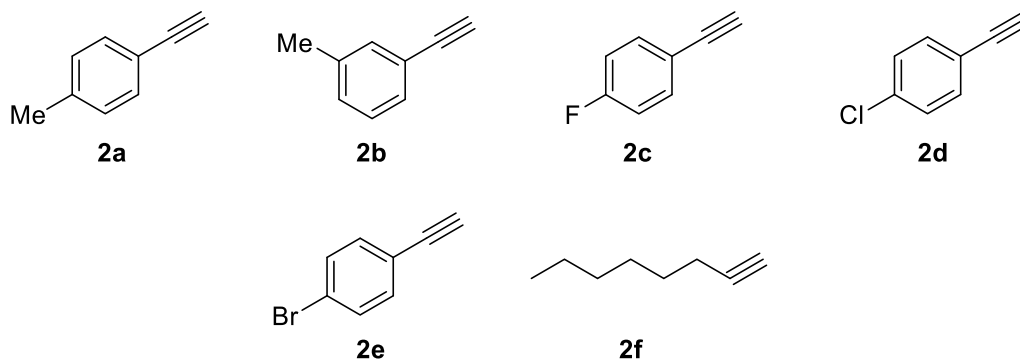
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1. The structures of starting materials 1a-1f

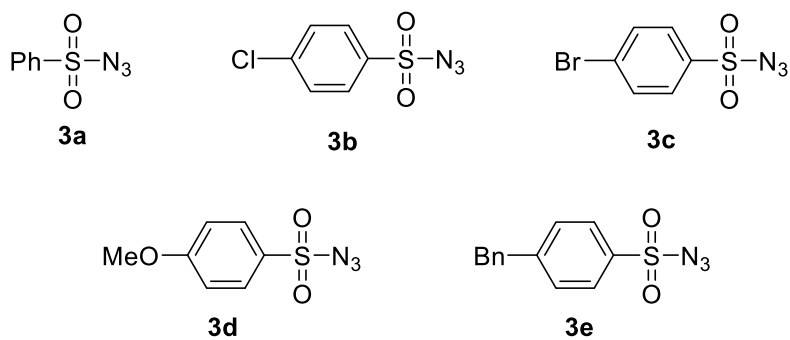
Structures of the starting materials 1a-1f



Structures of the starting materials 2a-2f

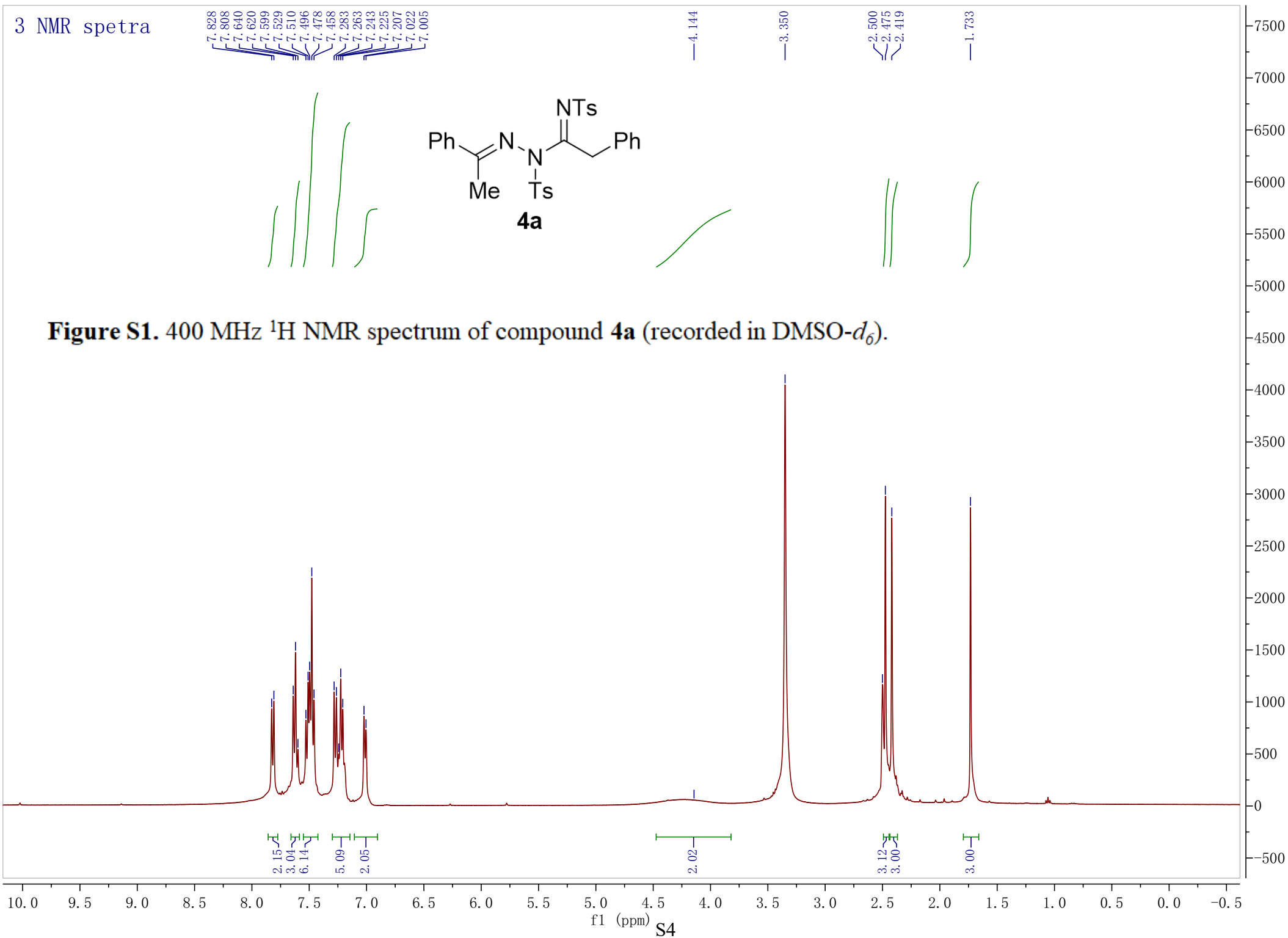


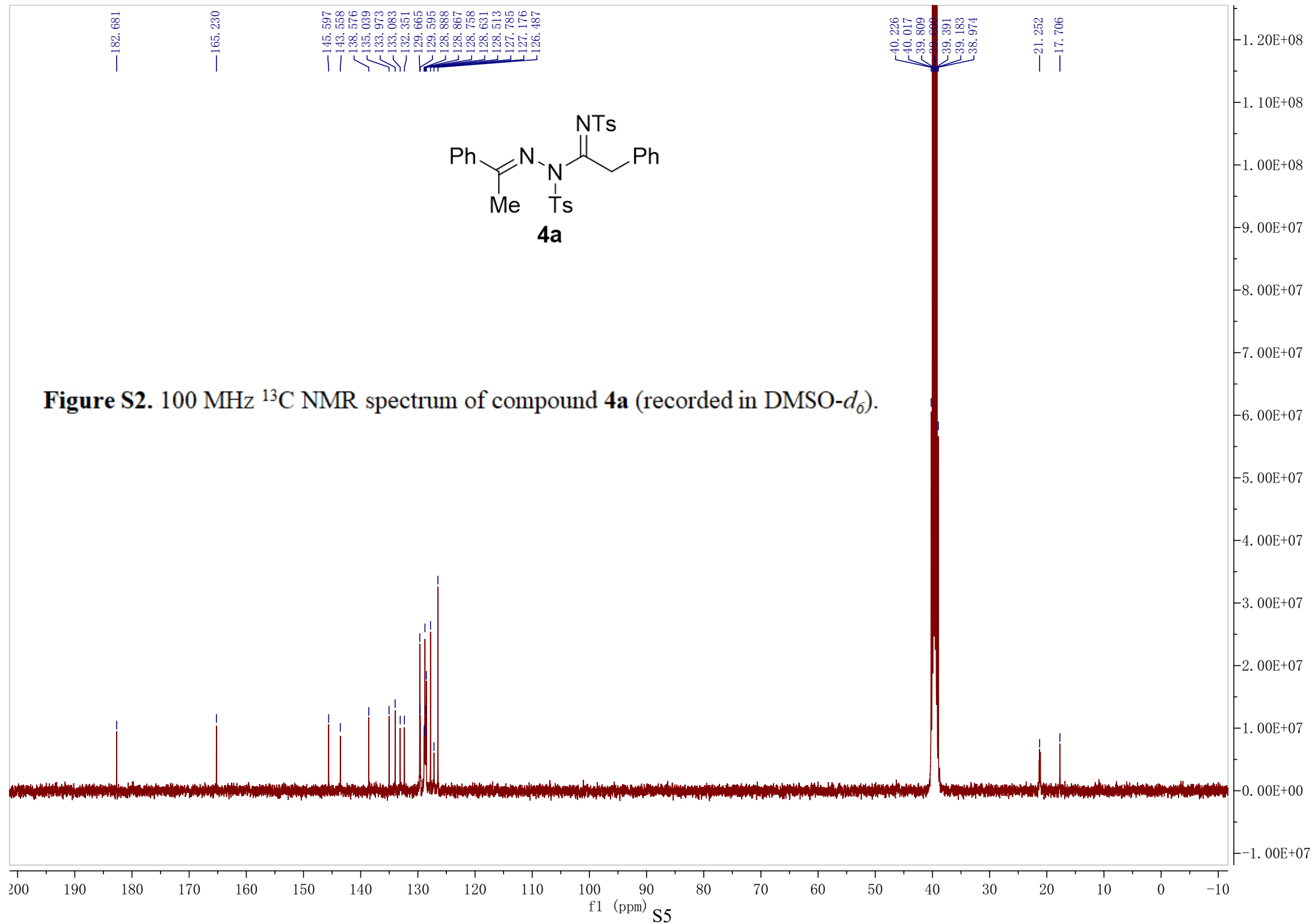
Structures of the starting materials 3a-3e

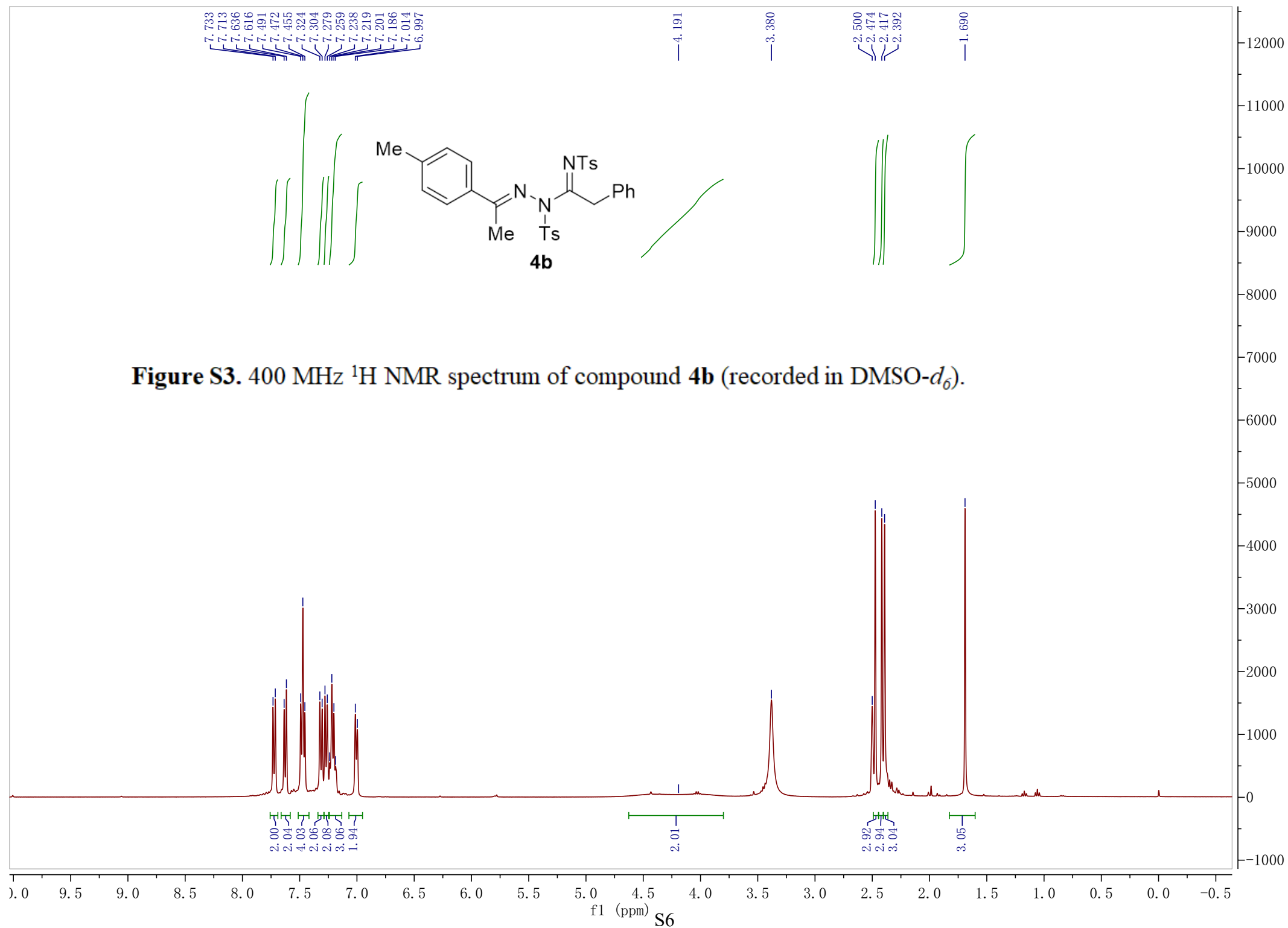


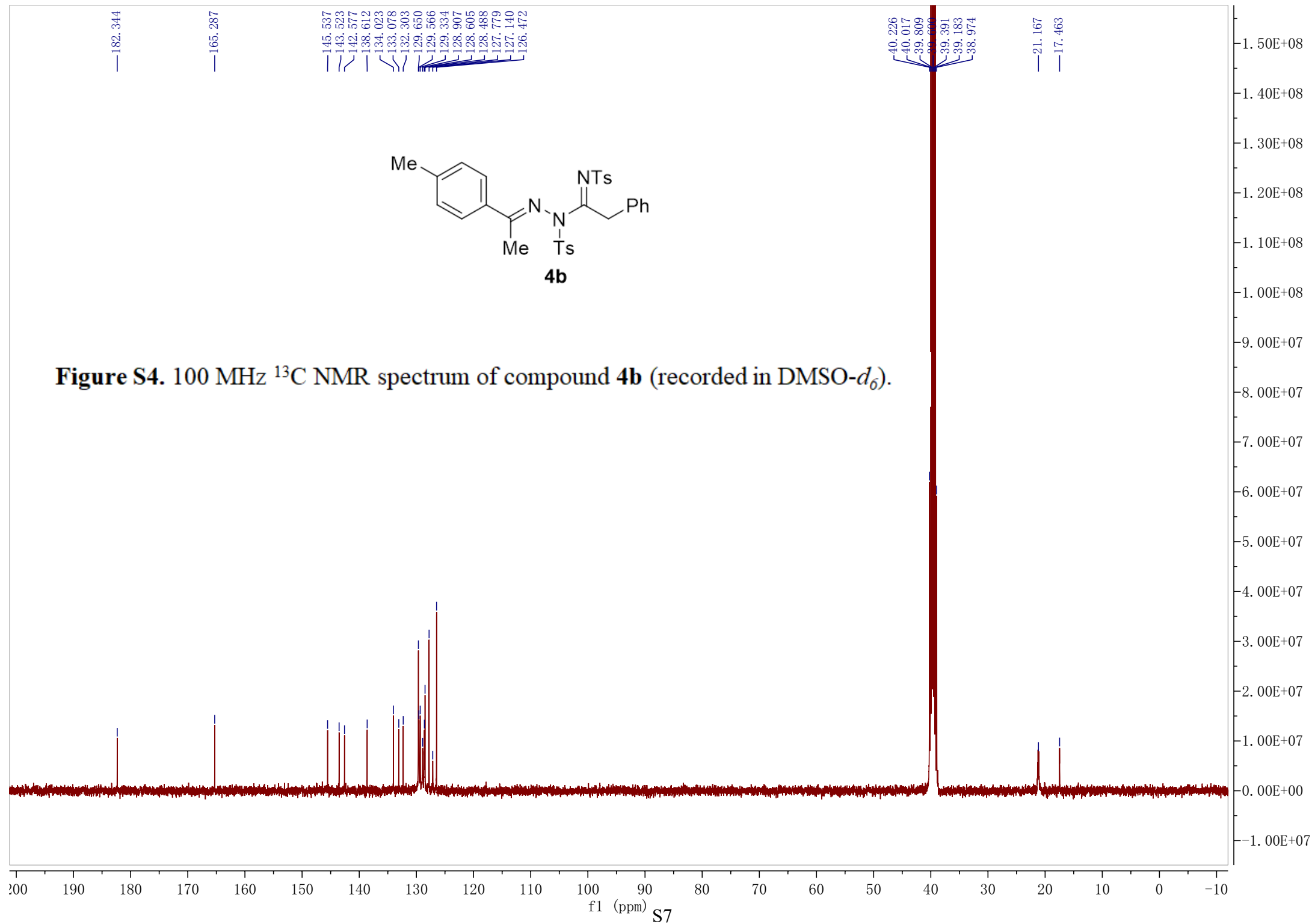
2. General Information

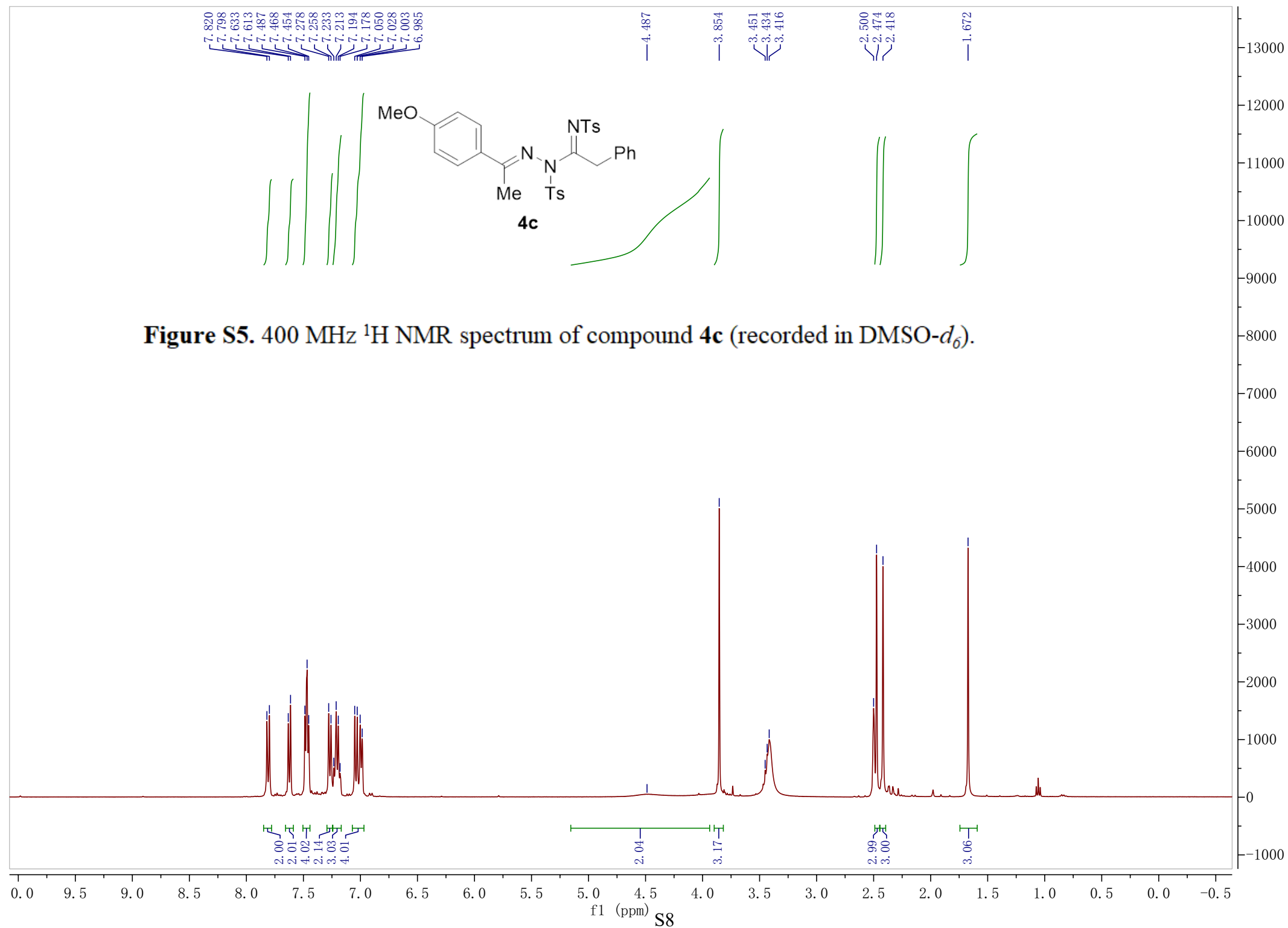
All melting points were determined on a Yanaco melting point apparatus and were uncorrected. IR spectra were recorded as KBr pellets on a Nicolet FT-IR 5DX spectrometer. All spectra of ^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) were measured on a 400 MHz Bruker spectrometer using $\text{DMSO-}d_6$ or CDCl_3 as the solvent with tetramethylsilane (TMS) as the internal standard at room temperature. . Chemical shifts are given in δ relative to TMS, the coupling constants J are given in Hz. HRMS were obtained on a Bruker micrOTOF-Q II spectrometer.

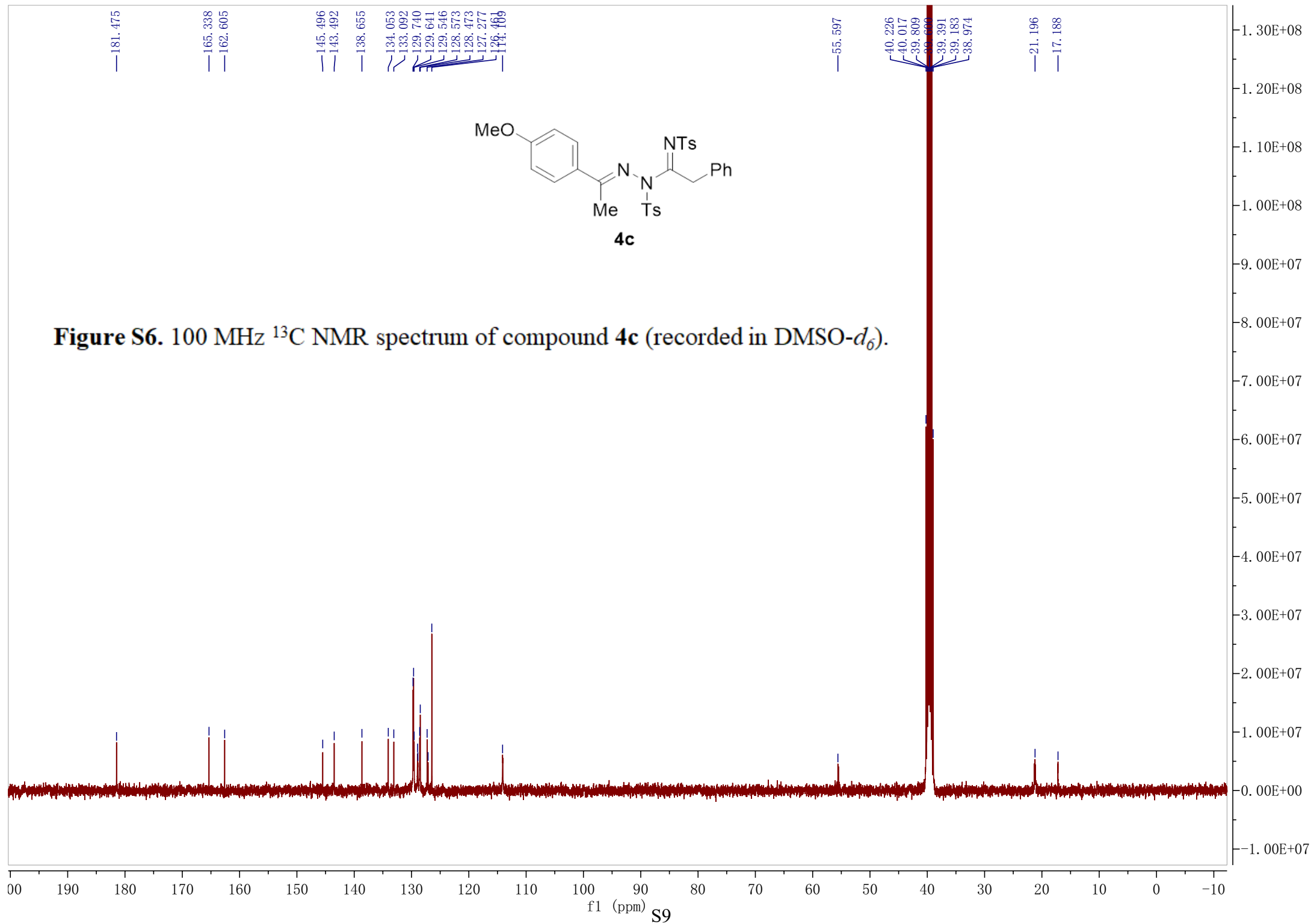


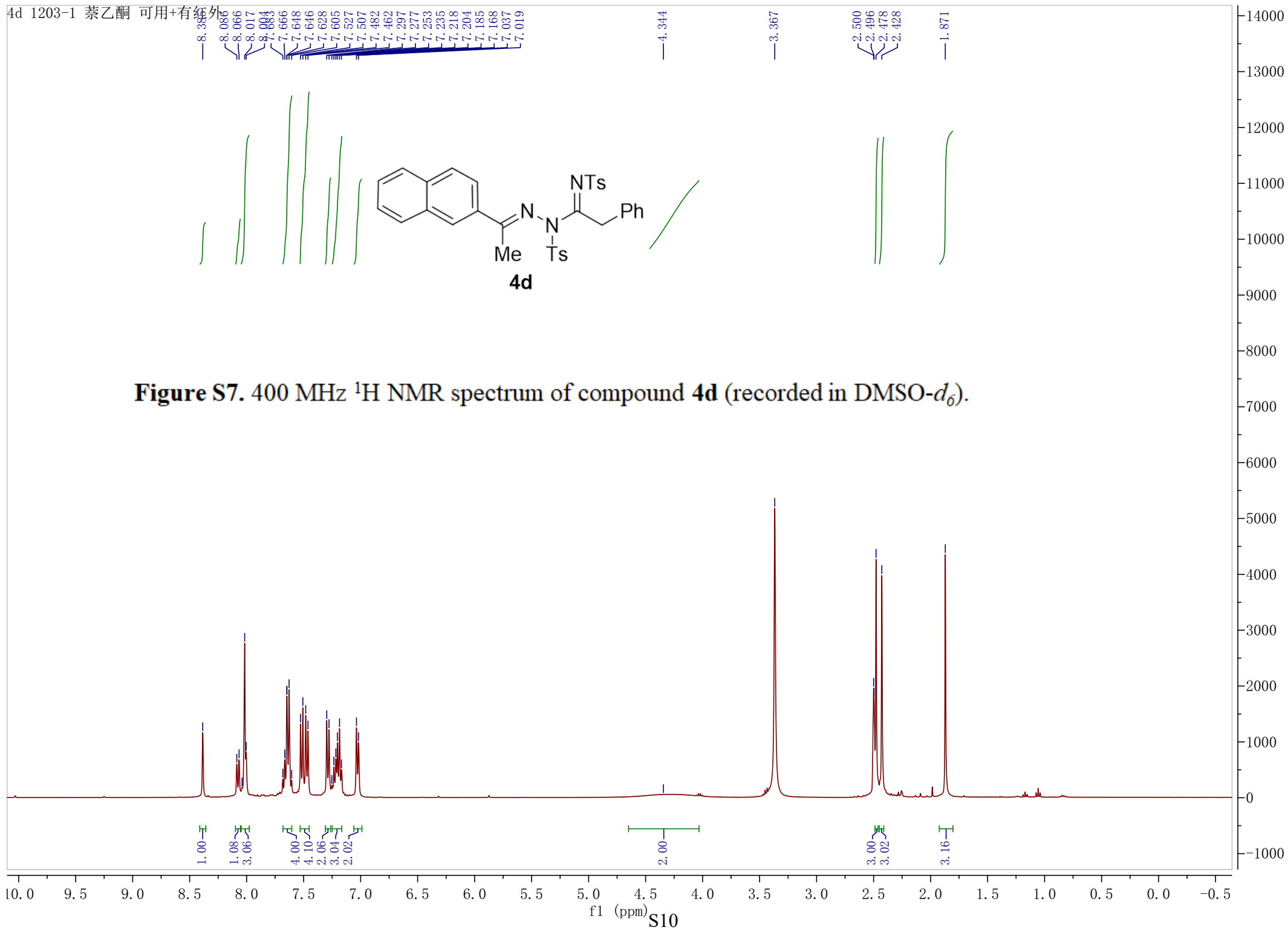


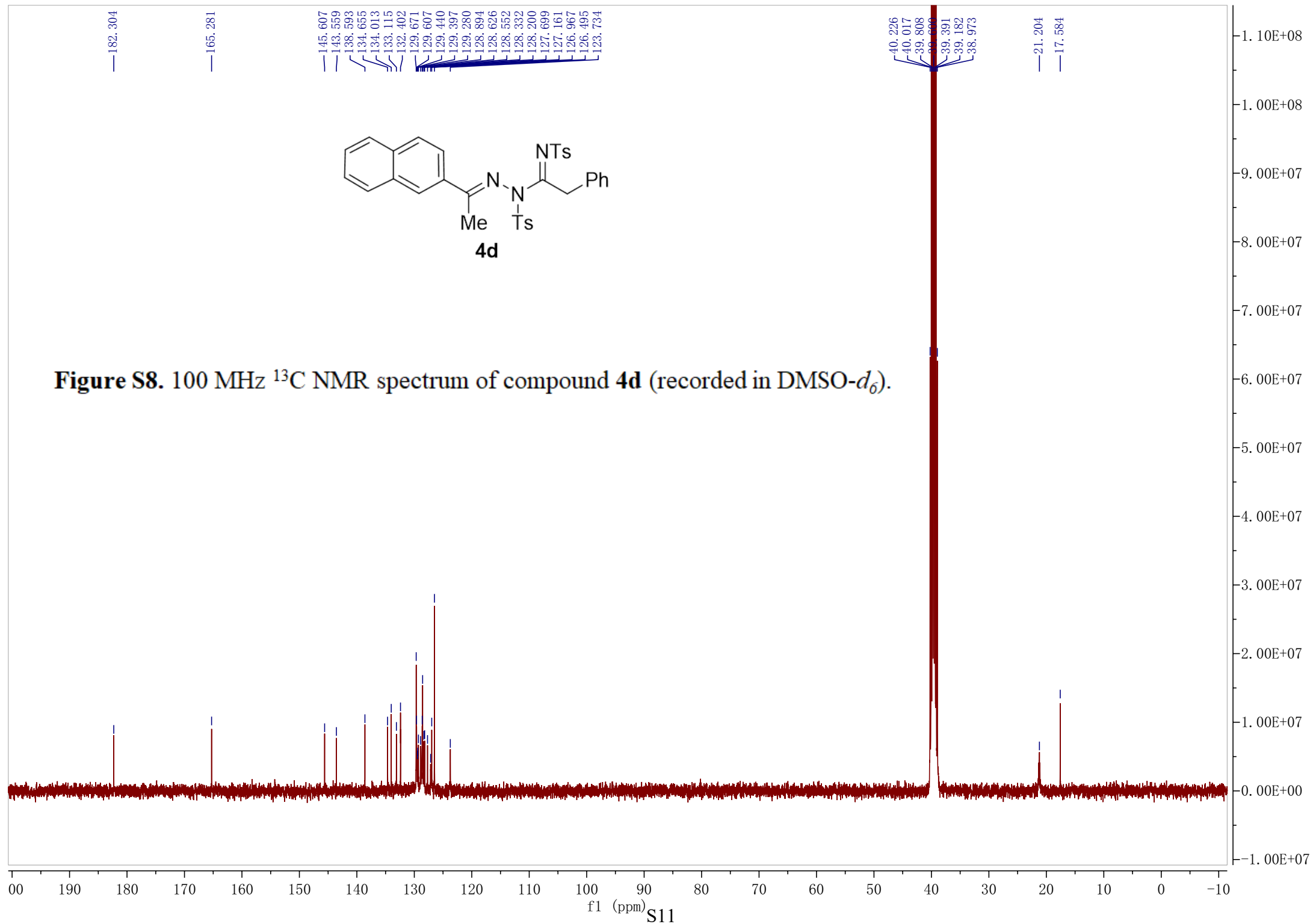


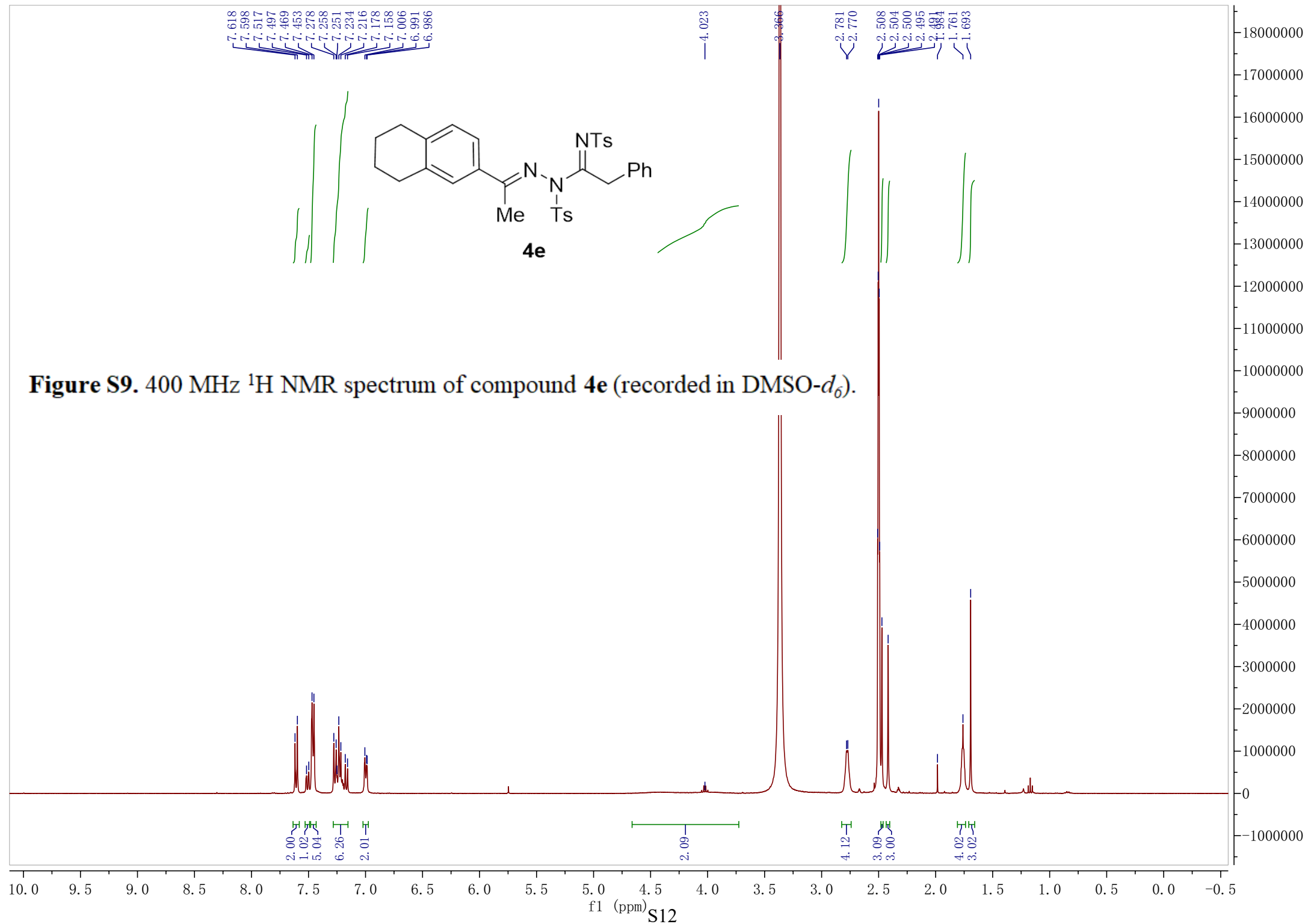


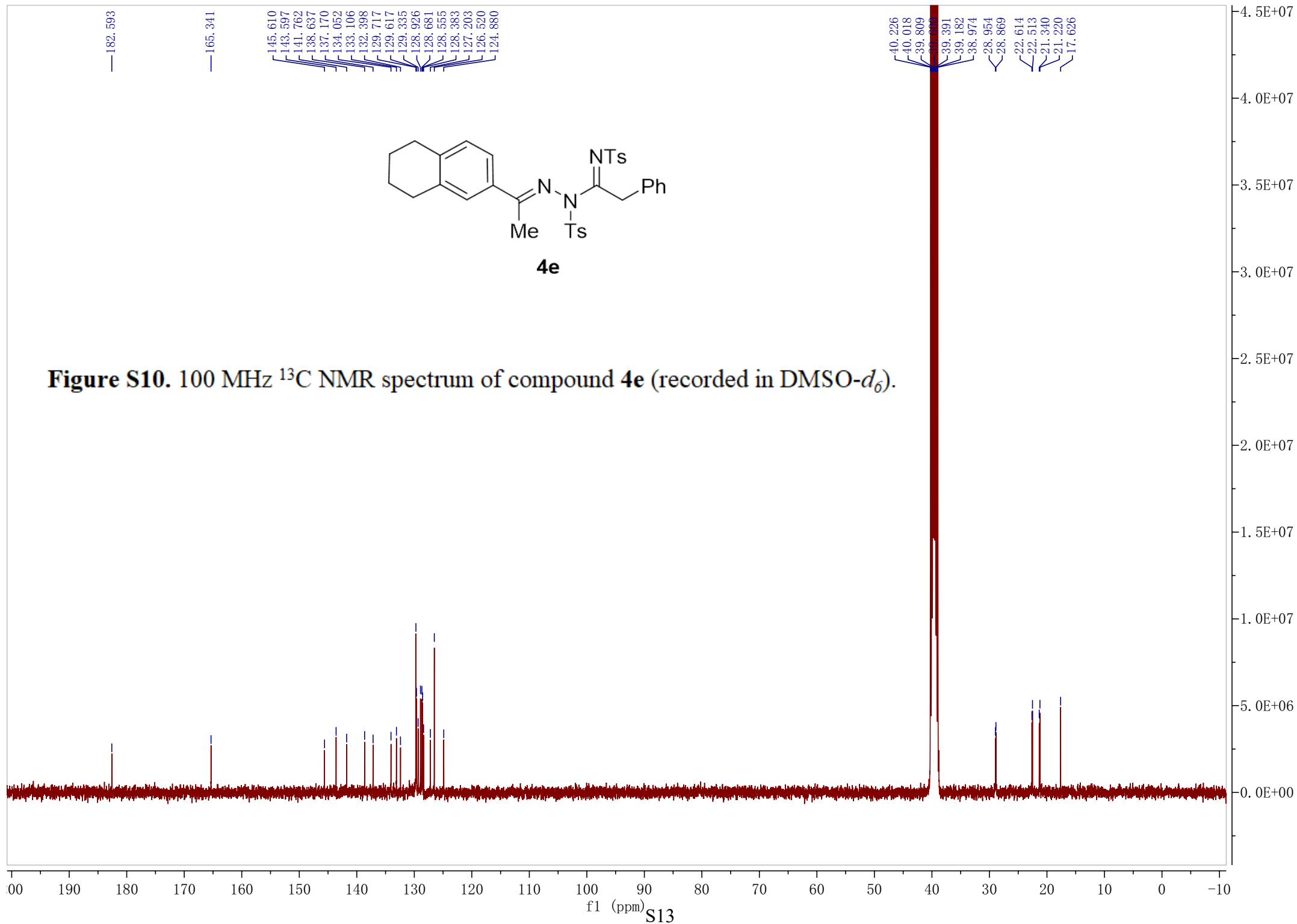












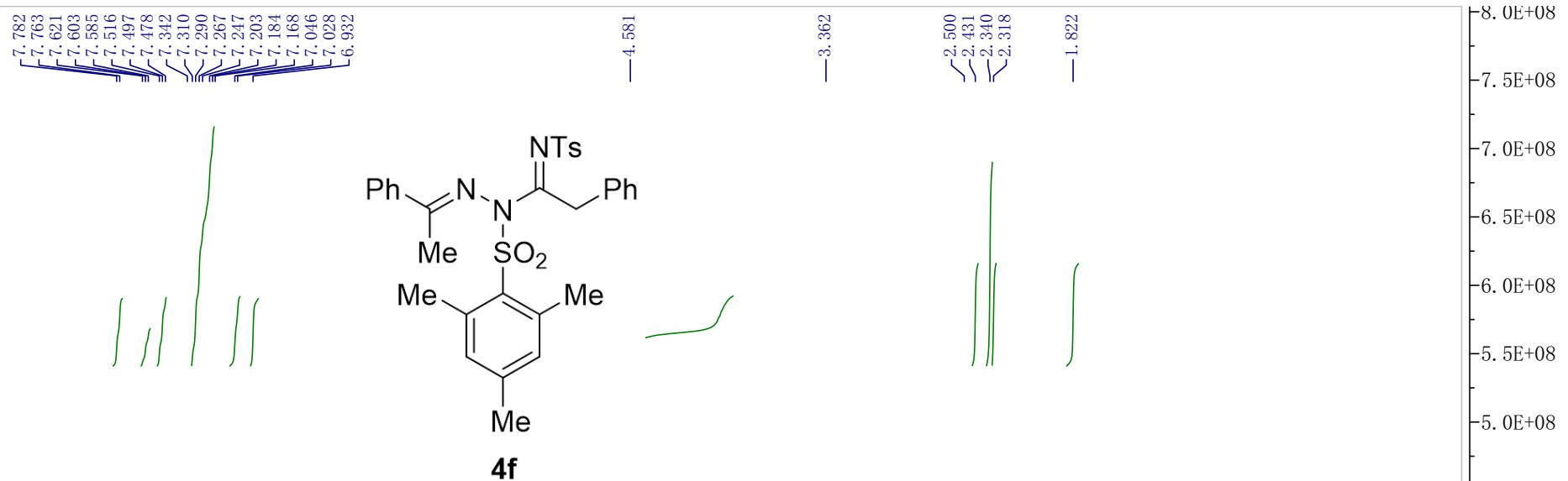


Figure S11. 400 MHz ^1H NMR spectrum of compound **4f** (recorded in DMSO- d_6).

