
Supplementary Materials

Nickel-Catalyzed Decarbonylative Stannylation of Acyl Fluorides under Ligand-Free Conditions

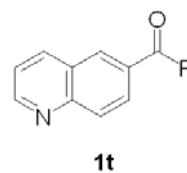
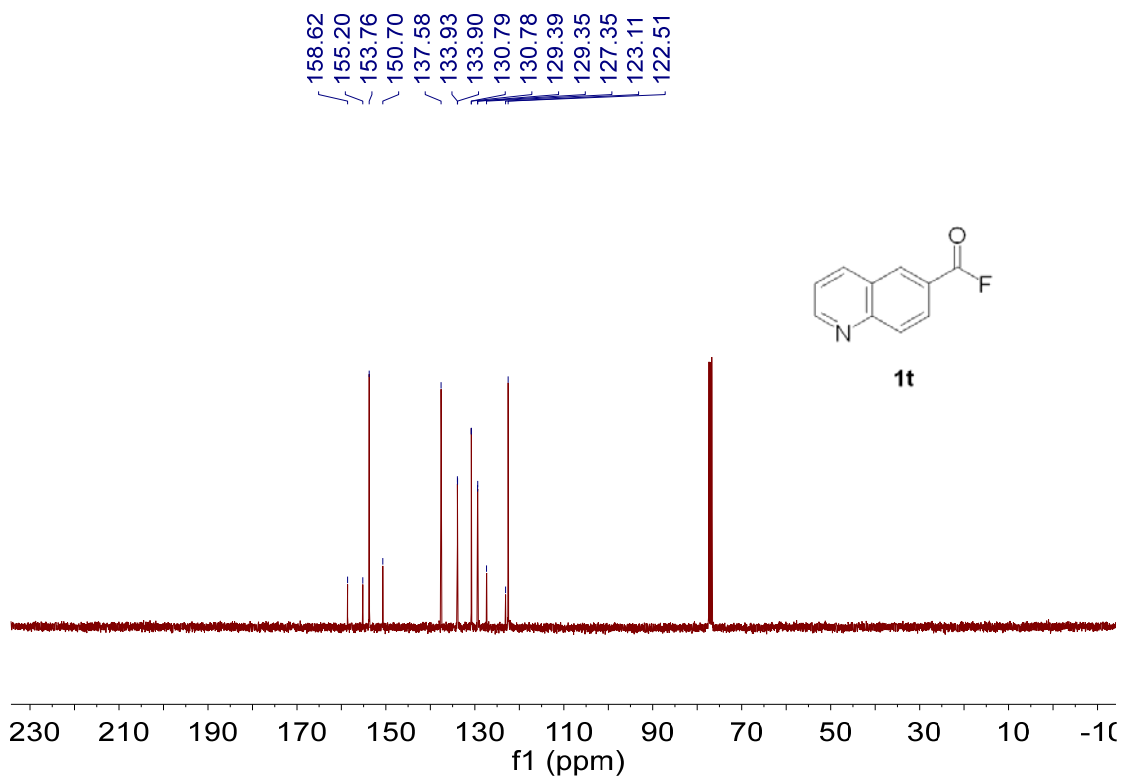
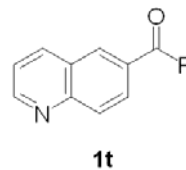
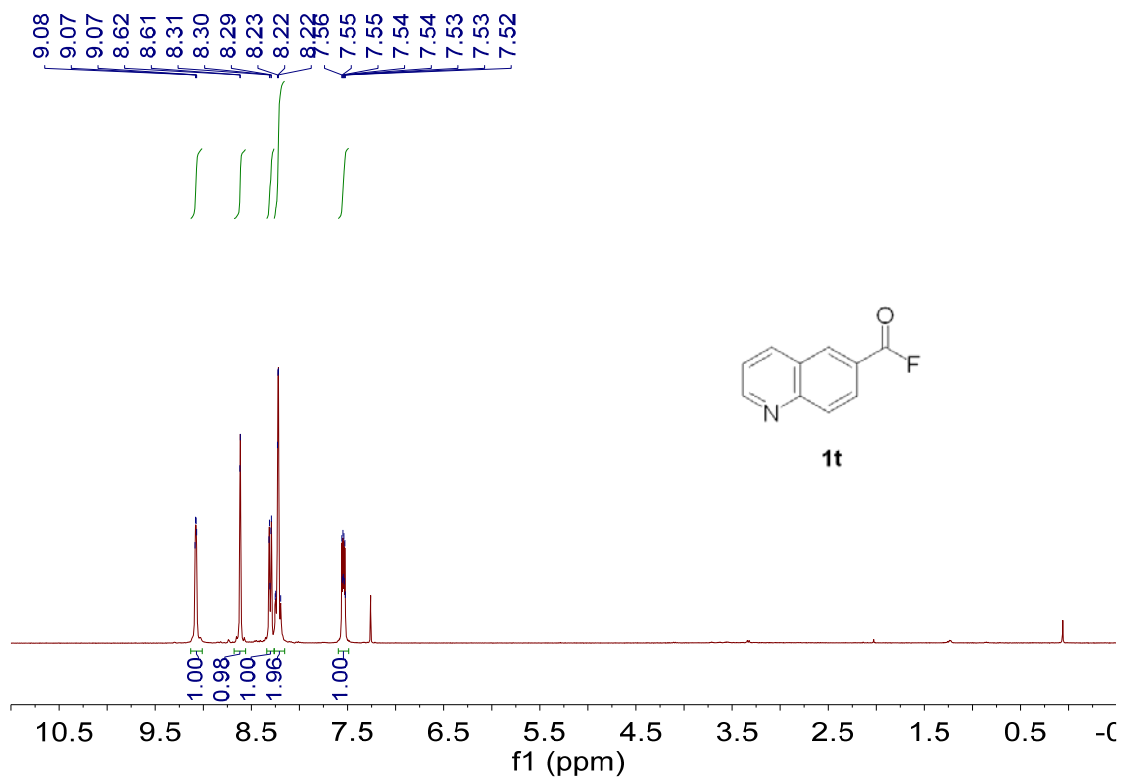
Xiu Wang¹, Zhenhua Wang¹, Li Liu¹,
Yuya Asanuma¹, and Yasushi Nishihara^{2,*}

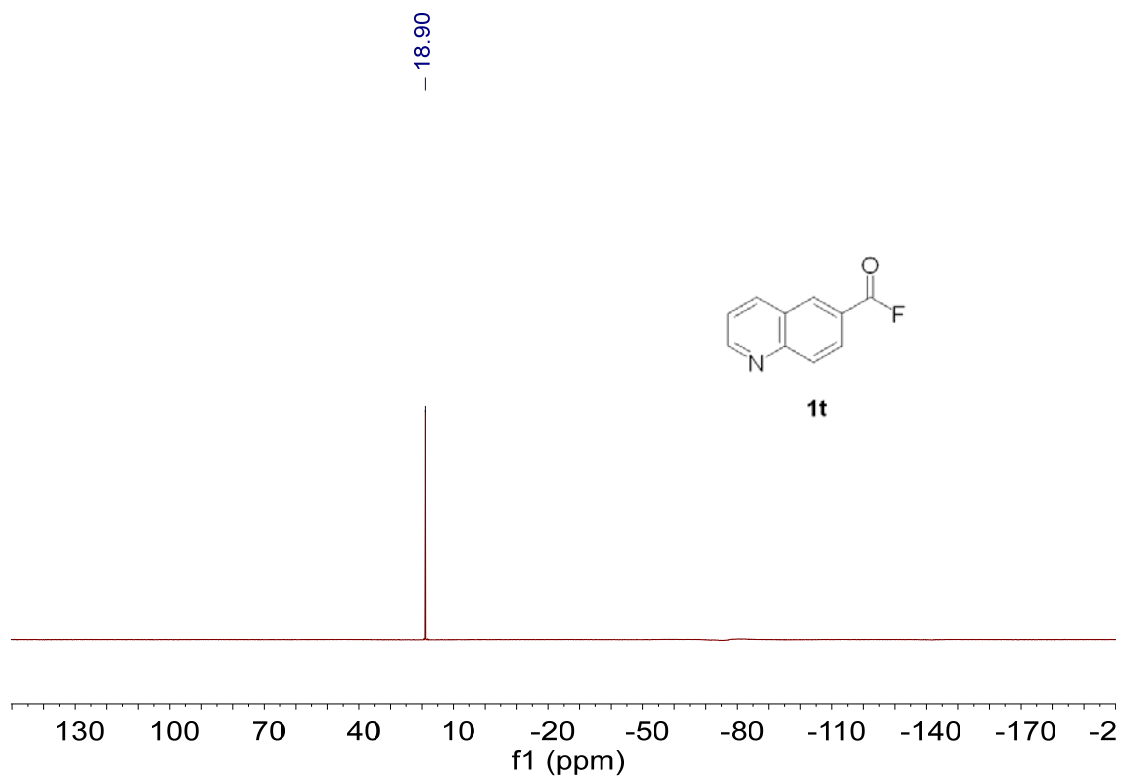
¹ Graduate School of Natural Science and Technology, Okayama University, 3-1-1 Tsushimanaka, Kita-ku, Okayama 700-8530, Japan; p5ri81bx@s.okayama-u.ac.jp (X.W.); ptpl9ag1@s.okayama-u.ac.jp (Z.W.); p7b567xo@s.okayama-u.ac.jp (L.L.); p1y54tsv@s.okayama-u.ac.jp (Y.A.)

² Research Institute for Interdisciplinary Science, Okayama University, 3-1-1 Tsushimanaka, Kita-ku, Okayama 700-8530, Japan; ynishiha@okayama-u.ac.jp (Y.N.)

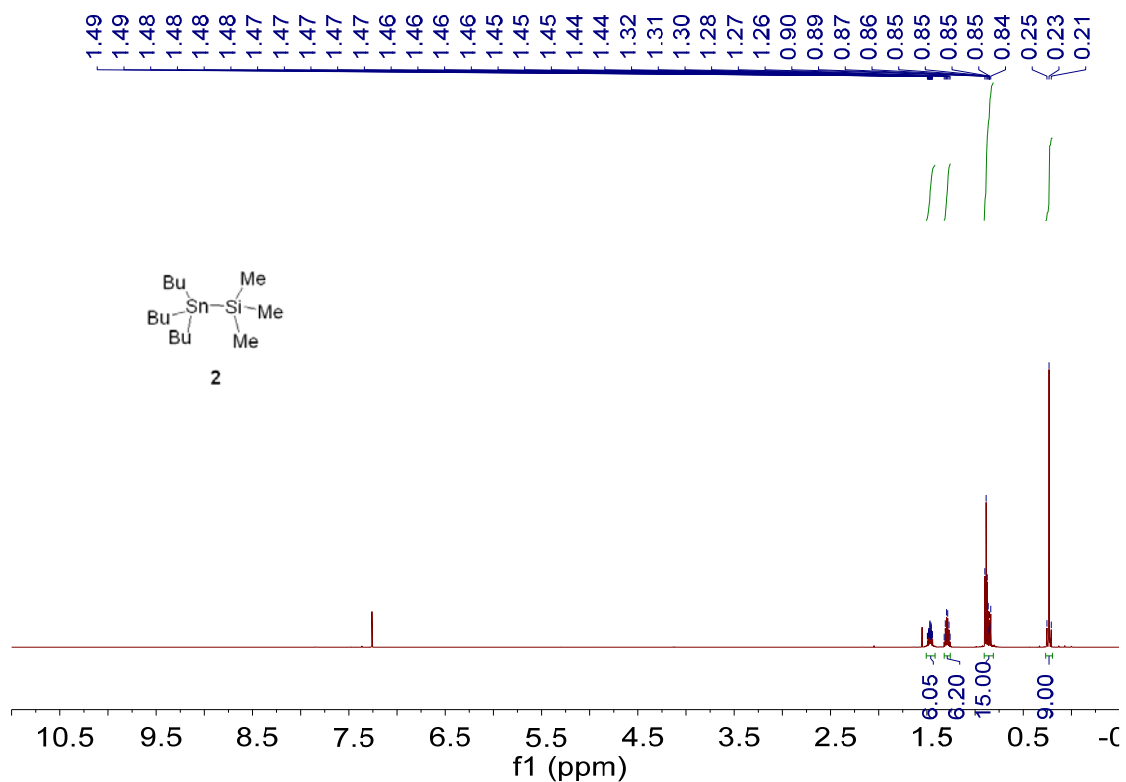
* Correspondence: ynishiha@okayama-u.ac.jp; Tel.: +81-86-251-7855

Copies of NMR Spectra

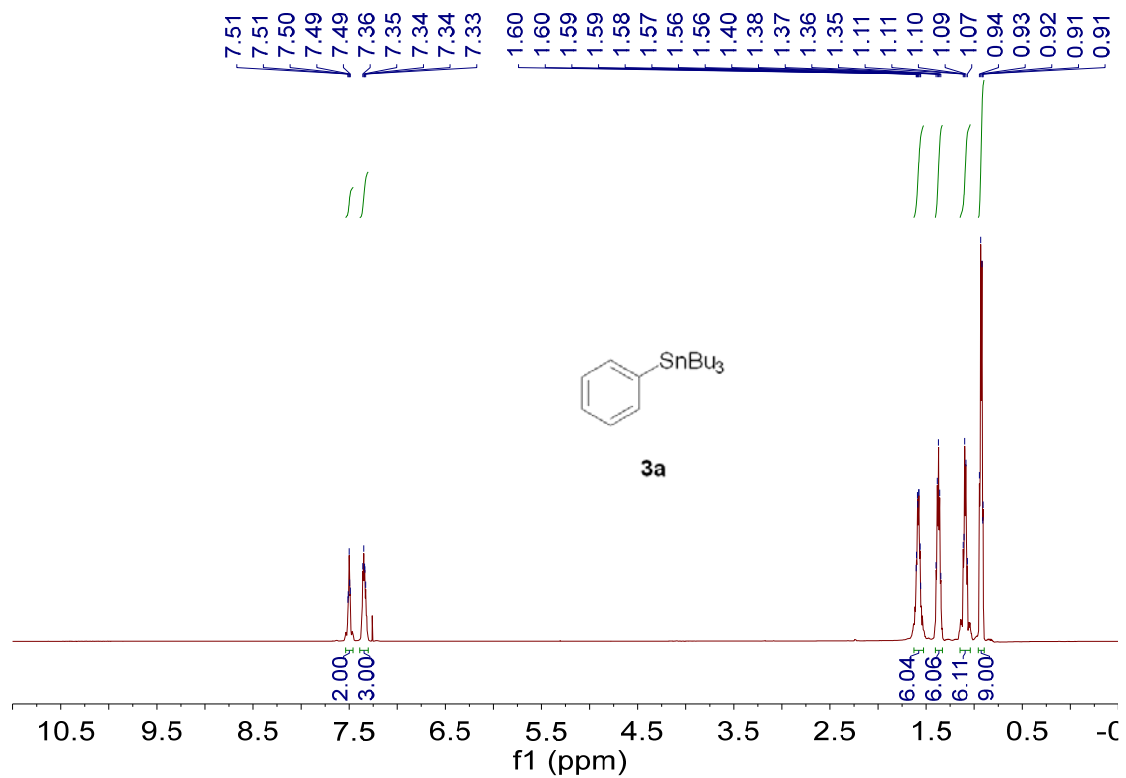




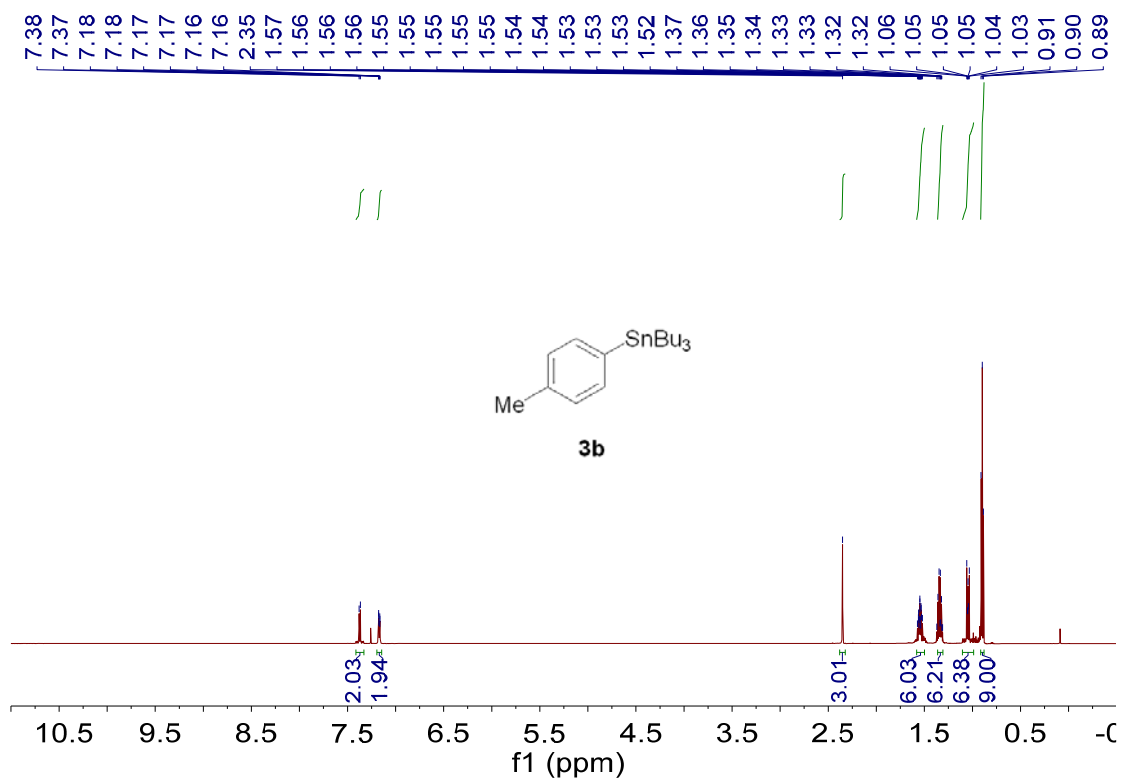
^1H NMR (400 MHz), $^{13}\text{C}\{^1\text{H}\}$ NMR (151 MHz) and $^{19}\text{F}\{^1\text{H}\}$ NMR (282 MHz) spectra of **1t** (CDCl_3 , rt).



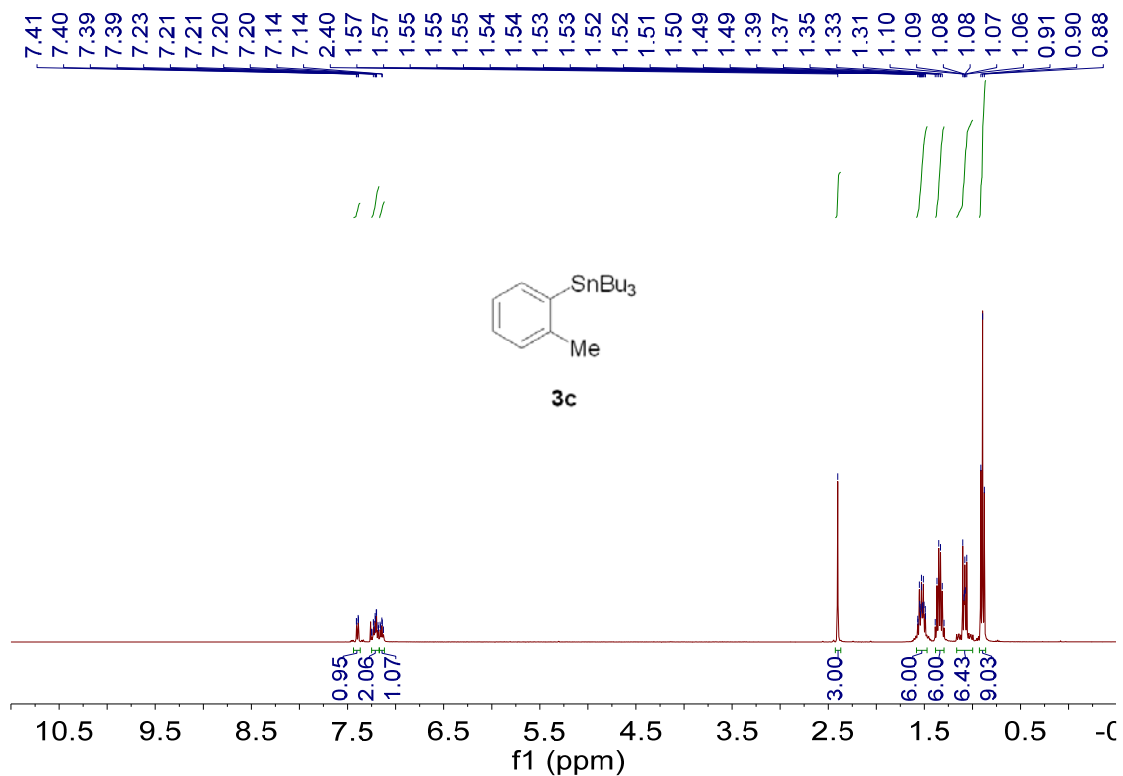
^1H NMR (600 MHz) spectrum of **2** (CDCl_3 , rt).



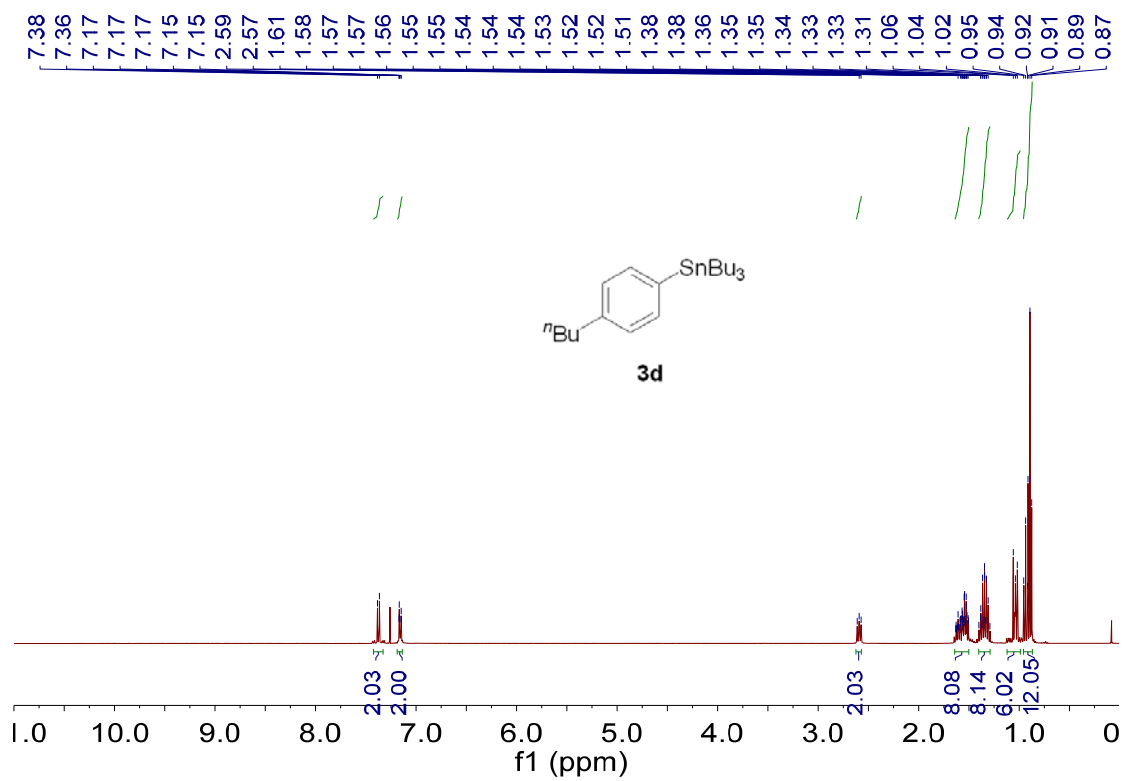
¹H NMR (600 MHz) spectrum of **3a** (CDCl₃, rt).

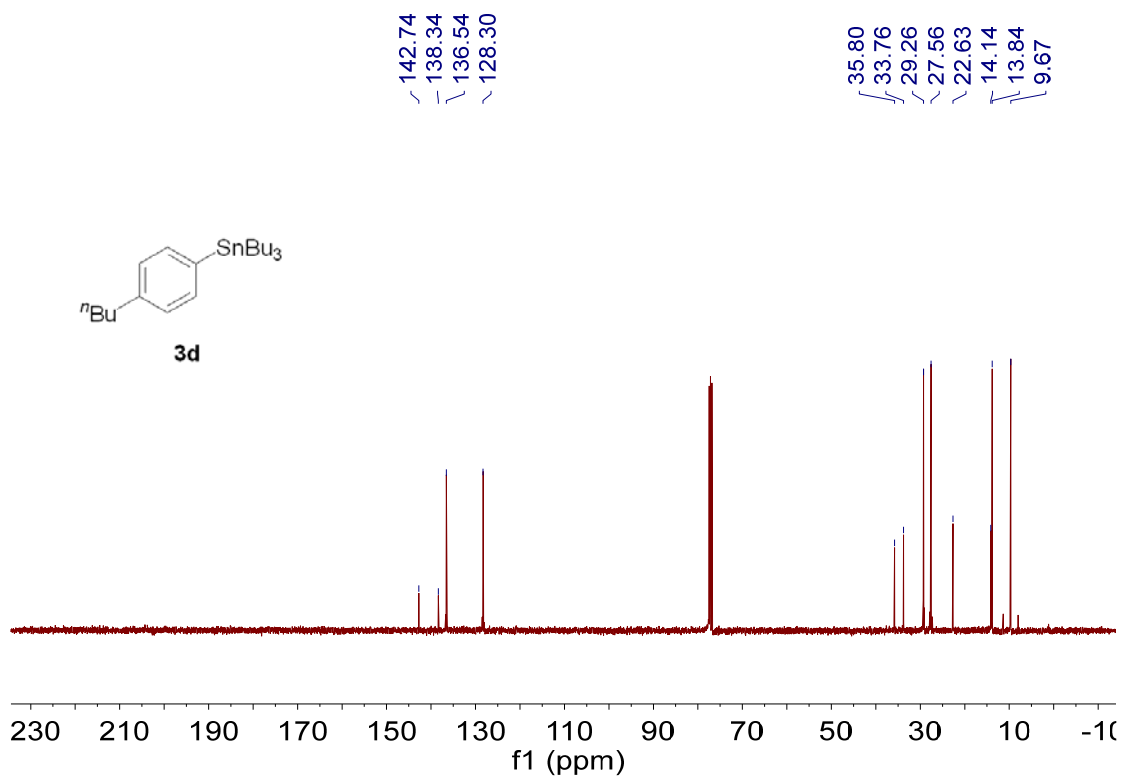


¹H NMR (600 MHz) spectrum of **3b** (CDCl₃, rt).

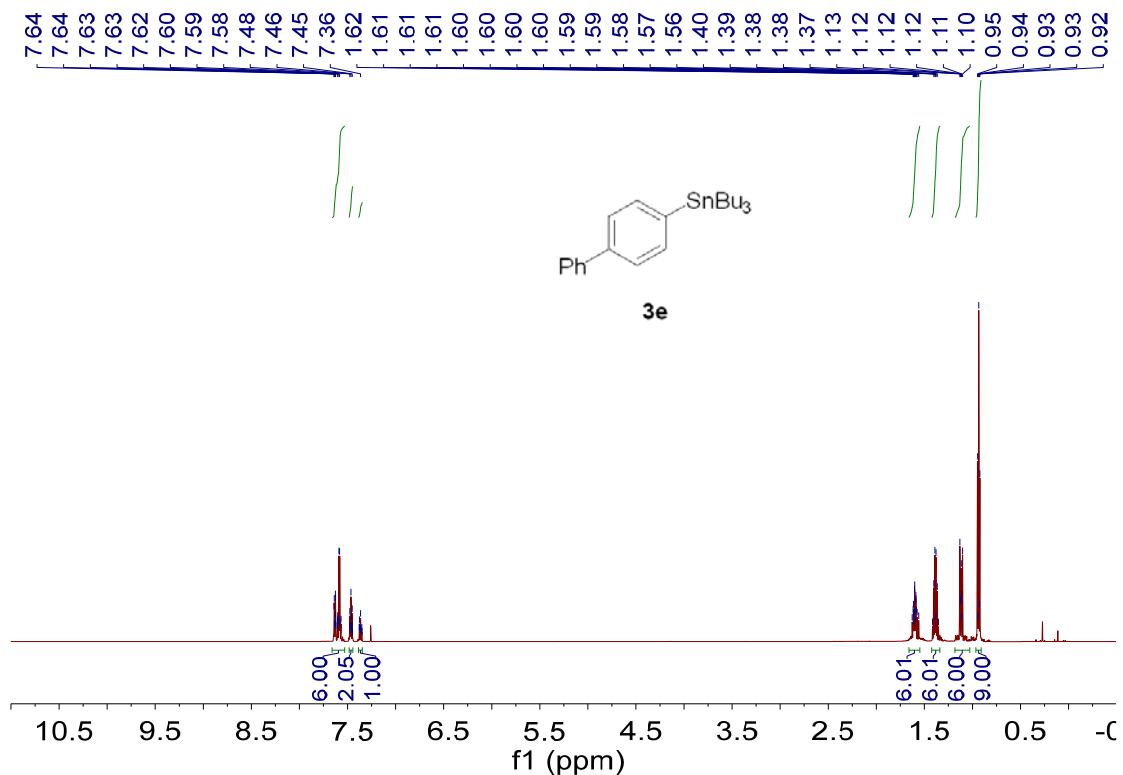


¹H NMR (400 MHz) spectrum of **3c** (CDCl₃, rt).

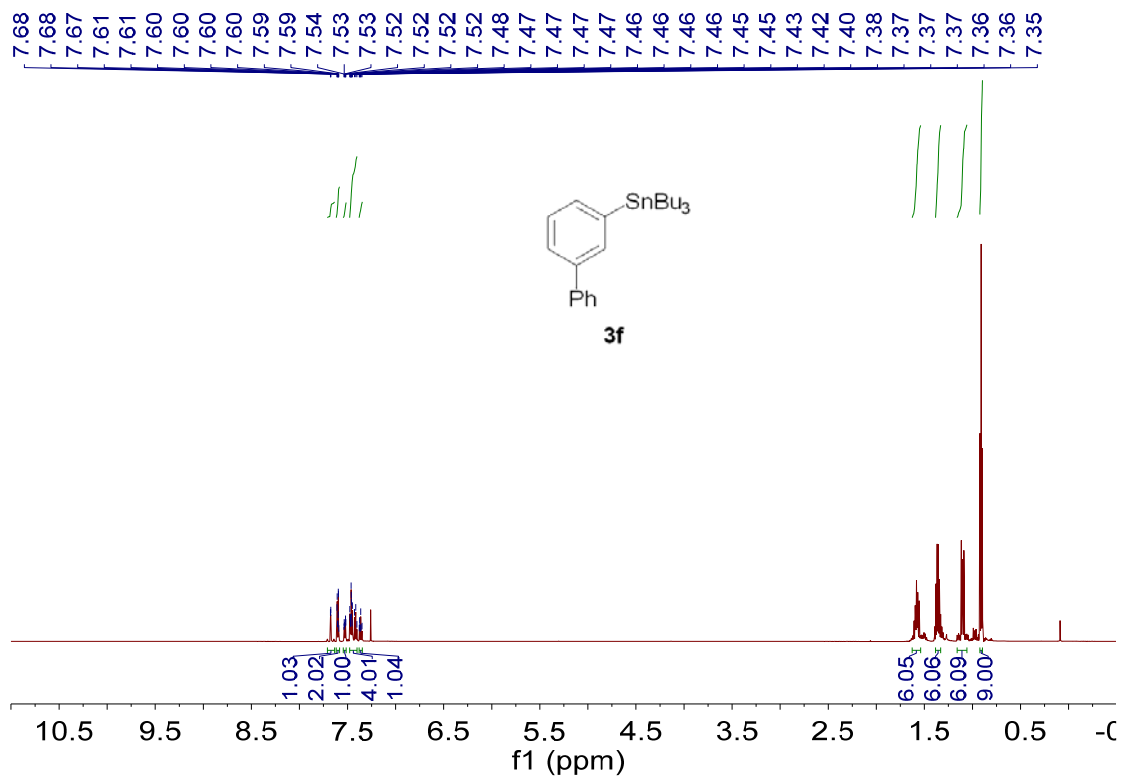




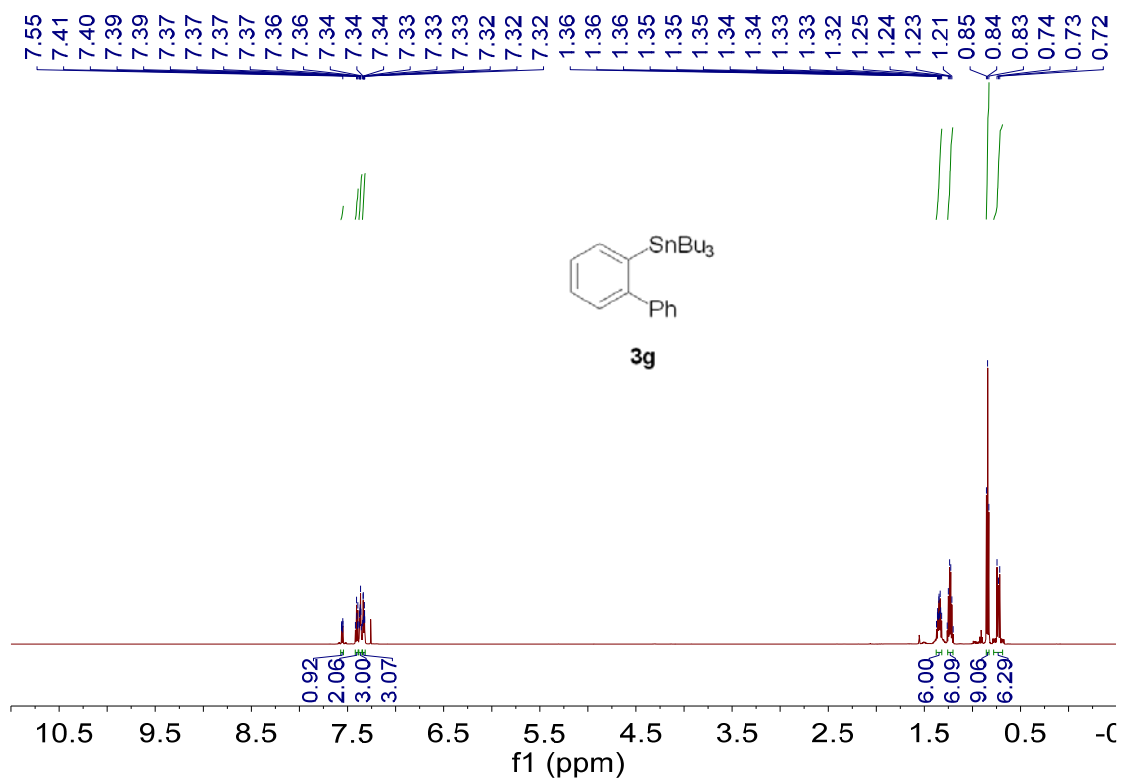
^1H NMR (400 MHz) and $^{13}\text{C}\{^1\text{H}\}$ NMR (101 MHz) spectra of **3d** (CDCl_3 , rt).



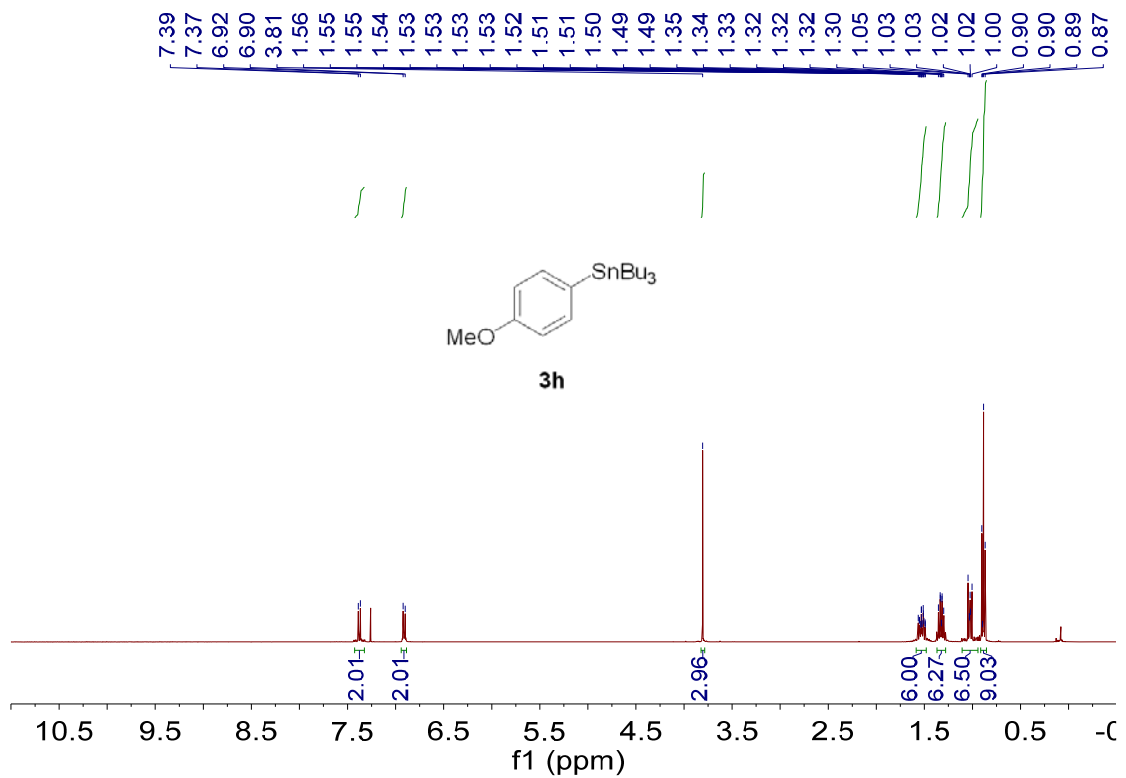
^1H NMR (600 MHz) spectrum of **3e** (CDCl_3 , rt).



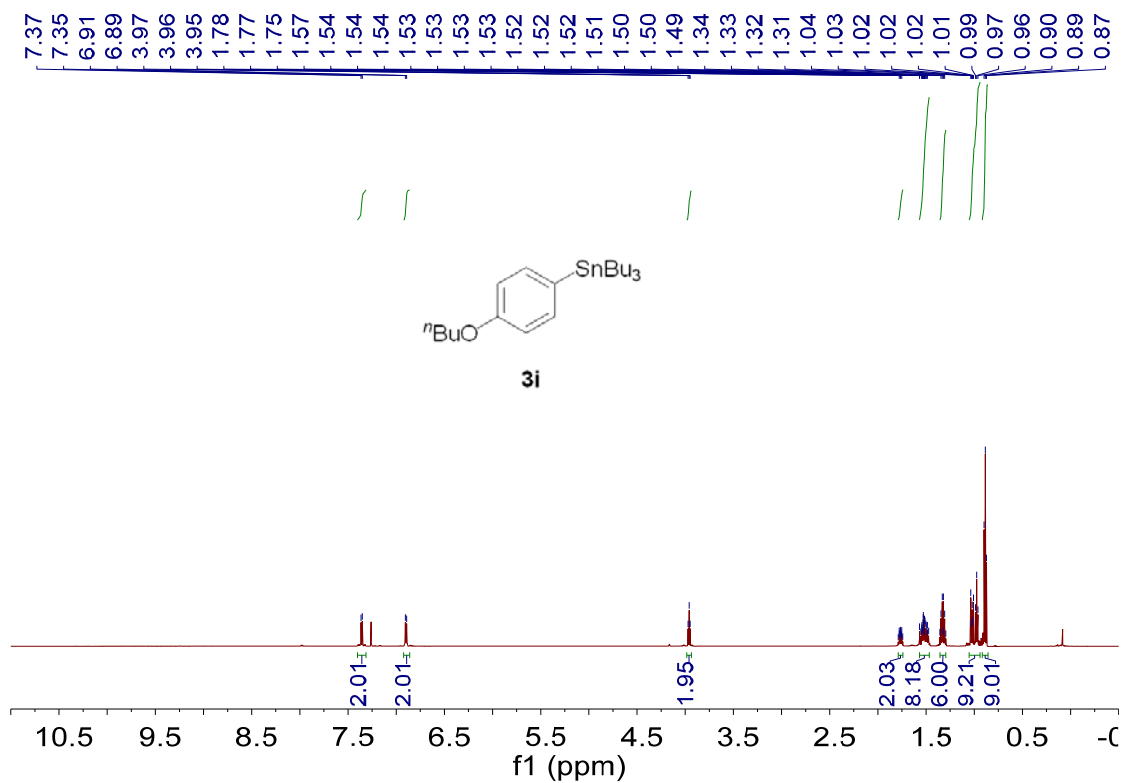
¹H NMR (600 MHz) spectrum of **3f** (CDCl₃, rt).

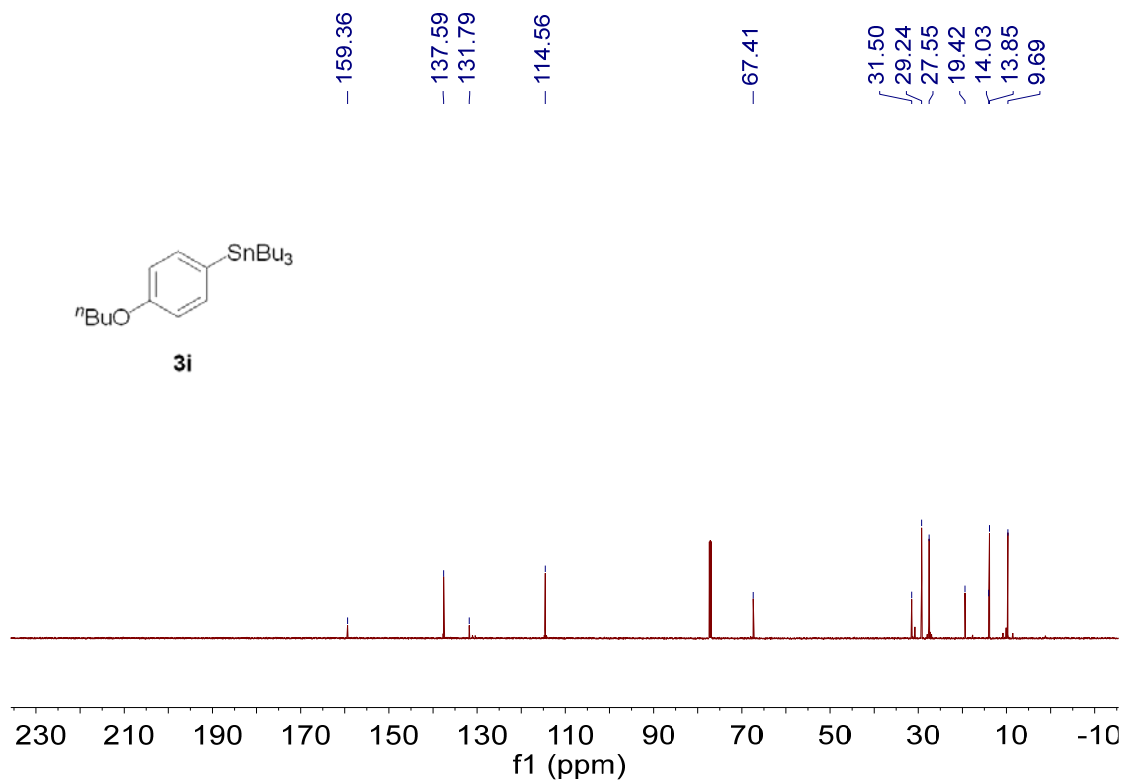


¹H NMR (600 MHz) spectrum of **3g** (CDCl₃, rt).

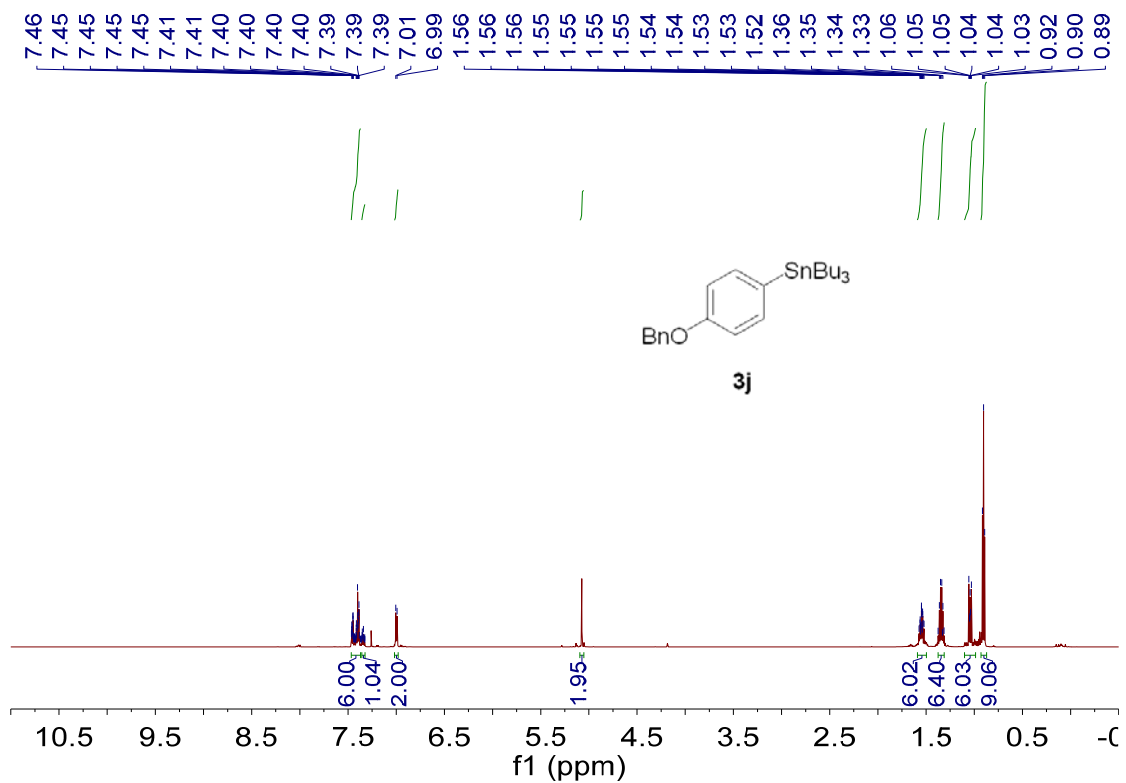


¹H NMR (400 MHz) spectrum of **3h** (CDCl₃, rt).

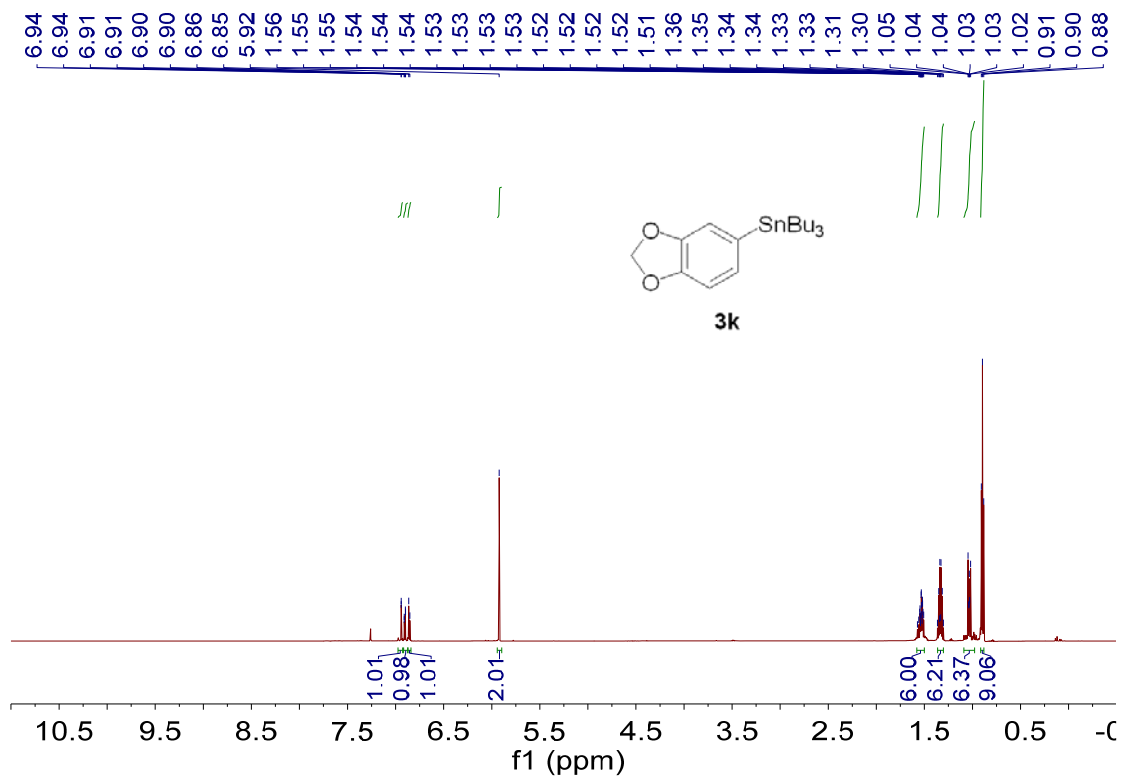




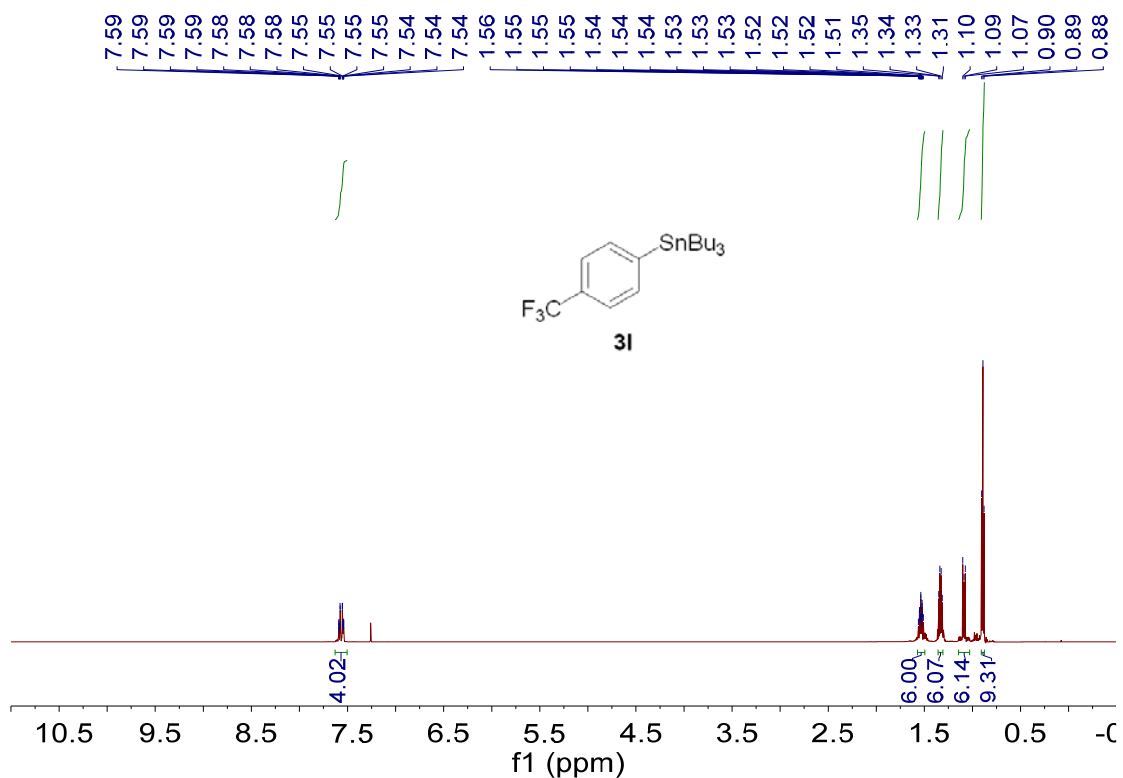
^1H NMR (600 MHz) and $^{13}\text{C}\{^1\text{H}\}$ NMR (151 MHz) spectra of **3i** (CDCl_3 , rt).



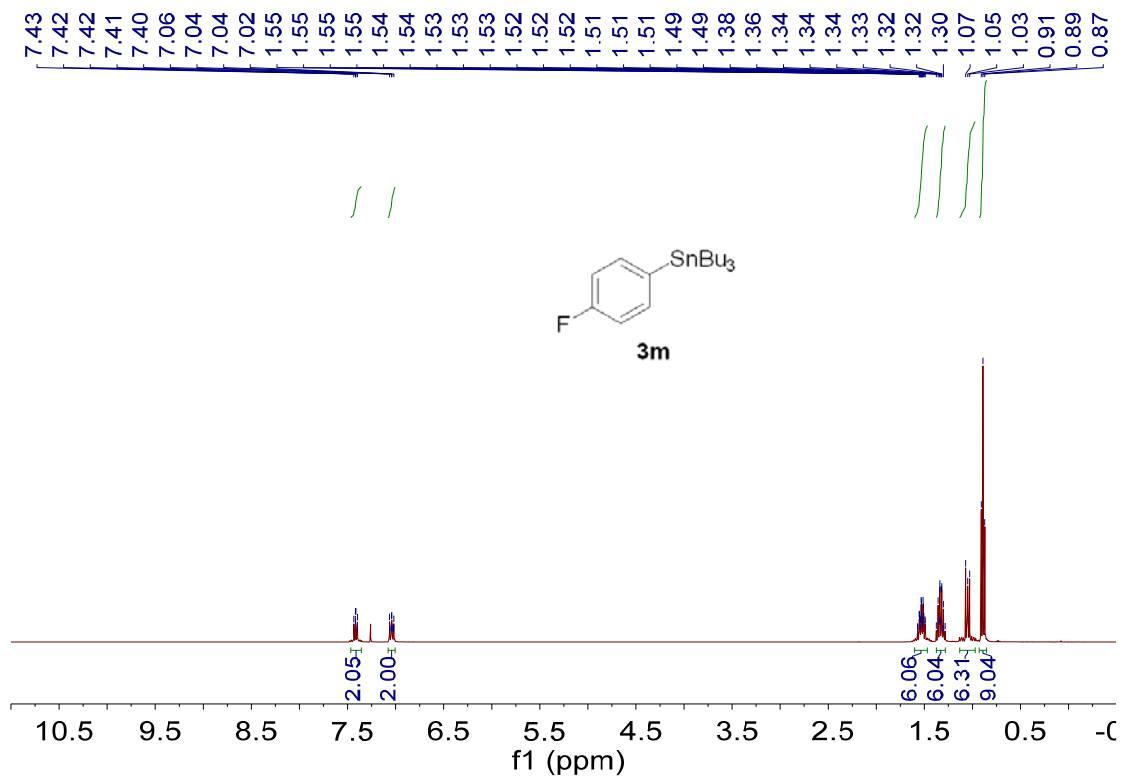
^1H NMR (600 MHz) spectrum of **3j** (CDCl_3 , rt).



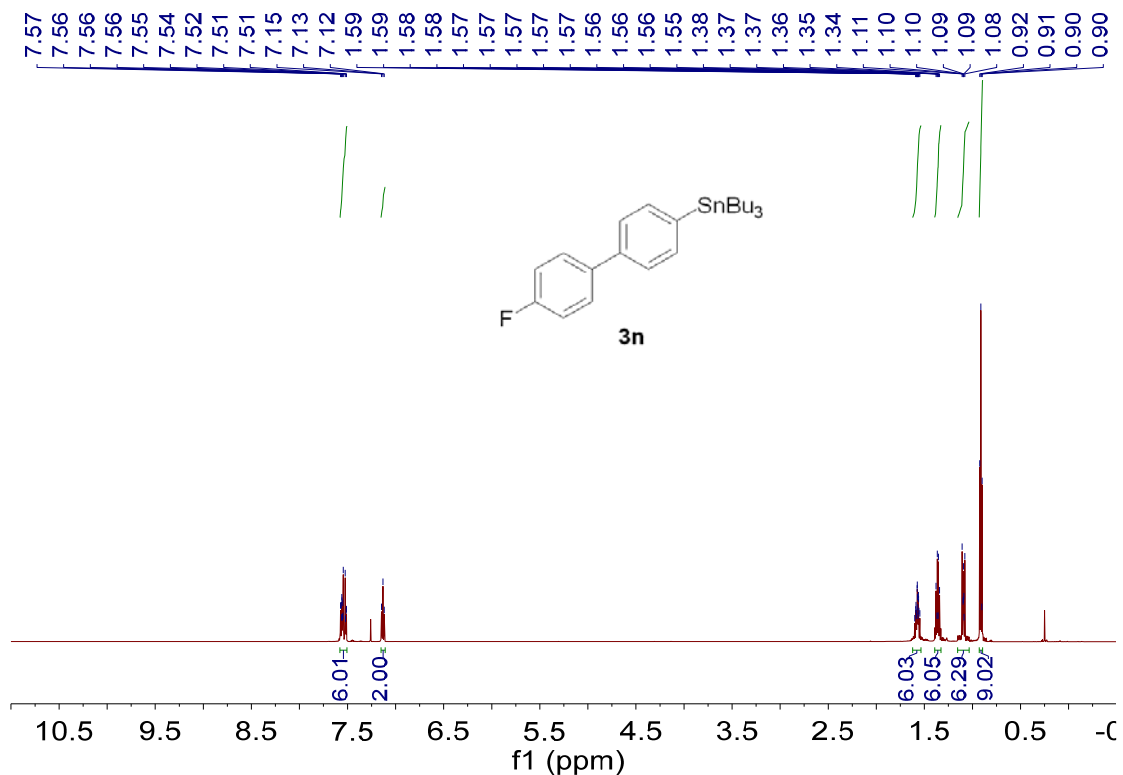
¹H NMR (600 MHz) spectrum of **3k** (CDCl₃, rt).



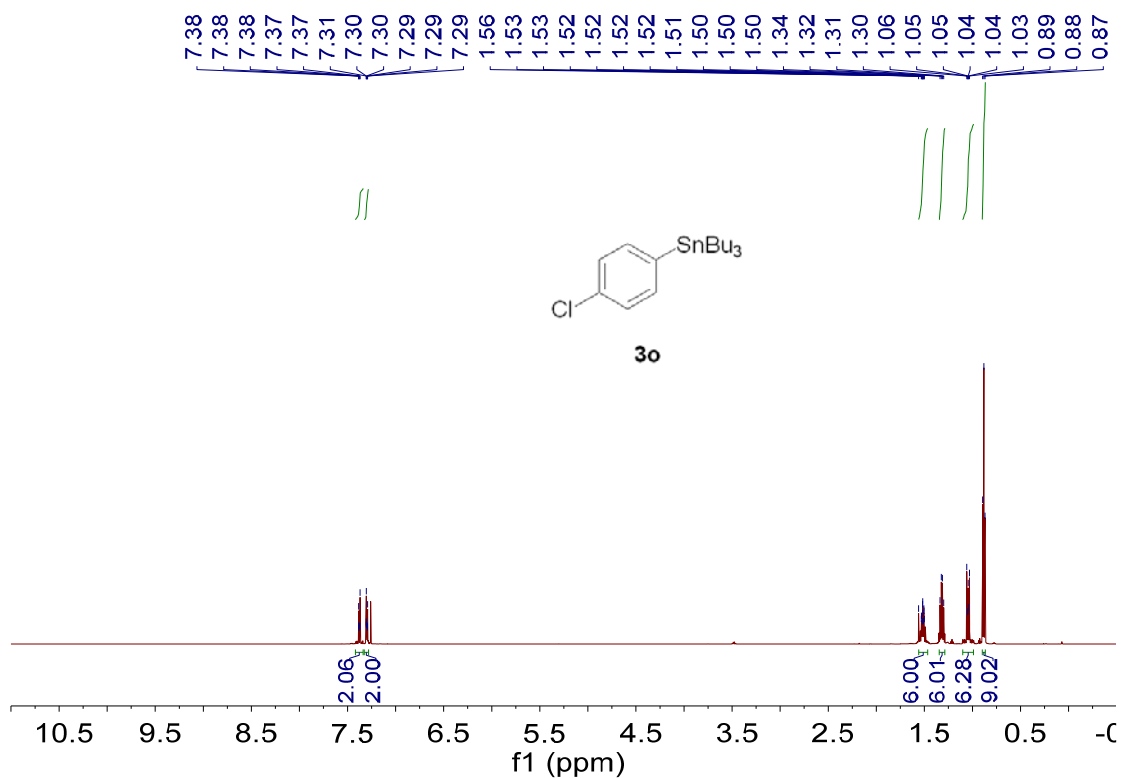
¹H NMR (600 MHz) spectrum of **3l** (CDCl₃, rt).



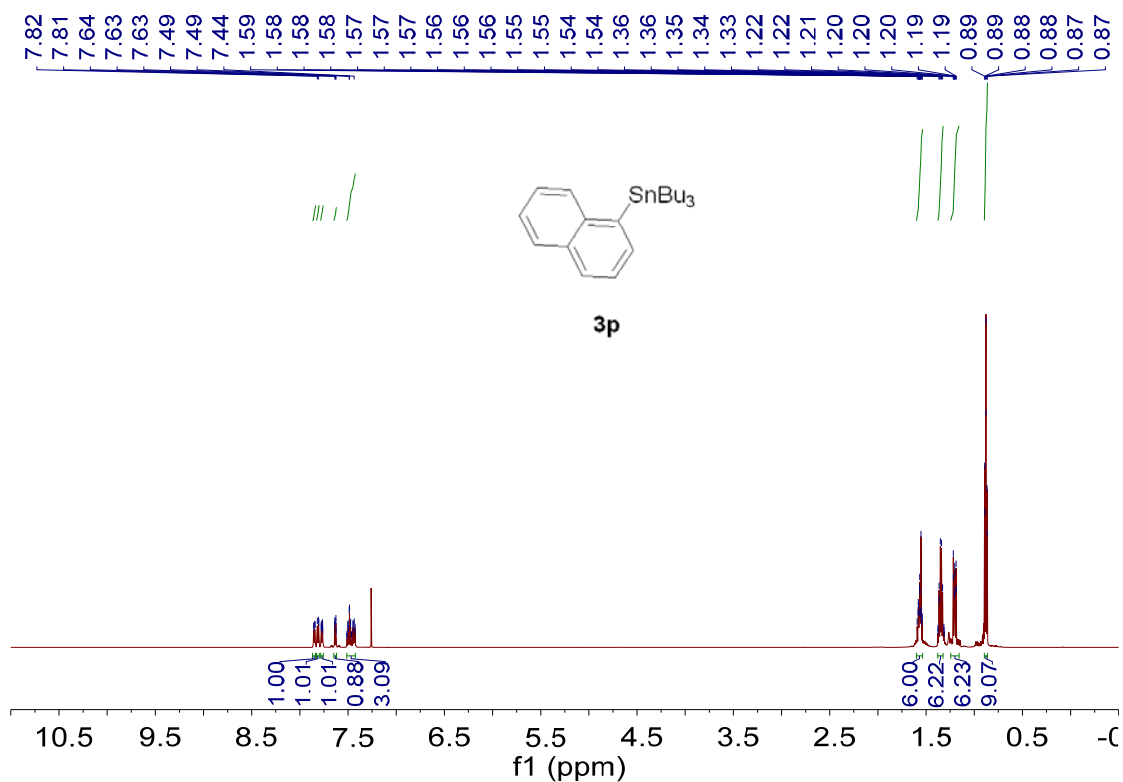
^1H NMR (400 MHz) spectrum of **3m** (CDCl_3 , rt).



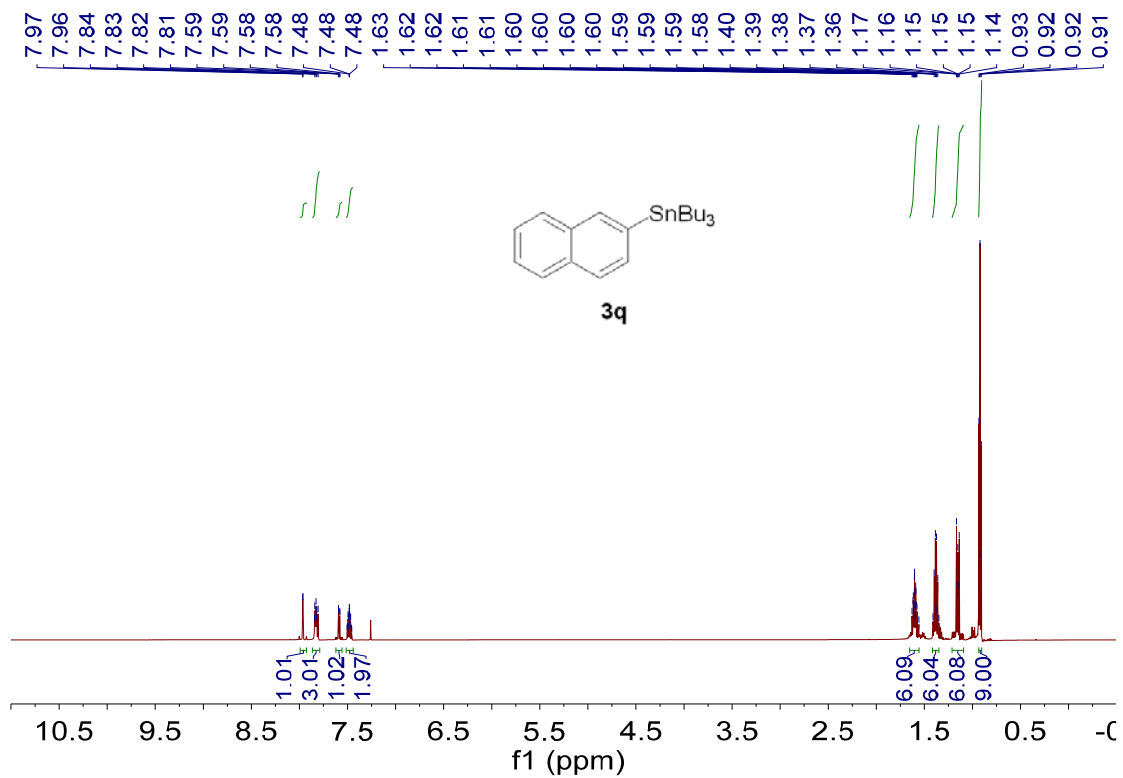
^1H NMR (600 MHz) spectrum of **3n** (CDCl_3 , rt).



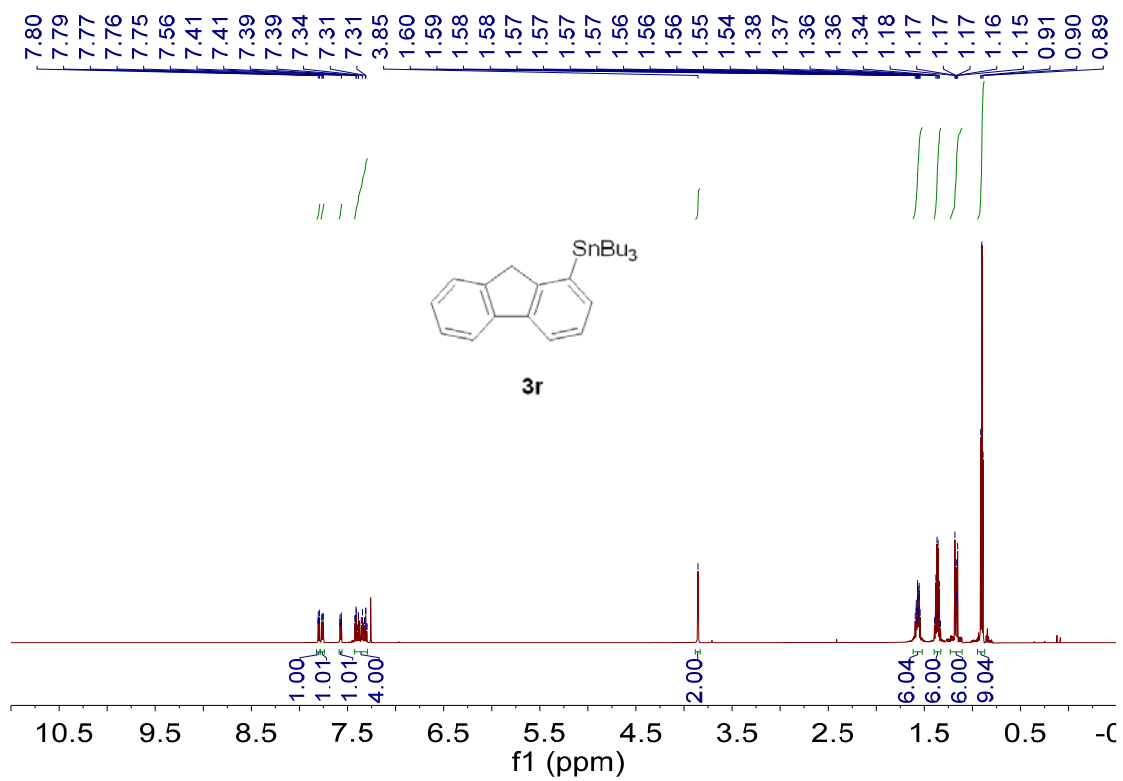
^1H NMR (600 MHz) spectrum of **3o** (CDCl_3 , rt).

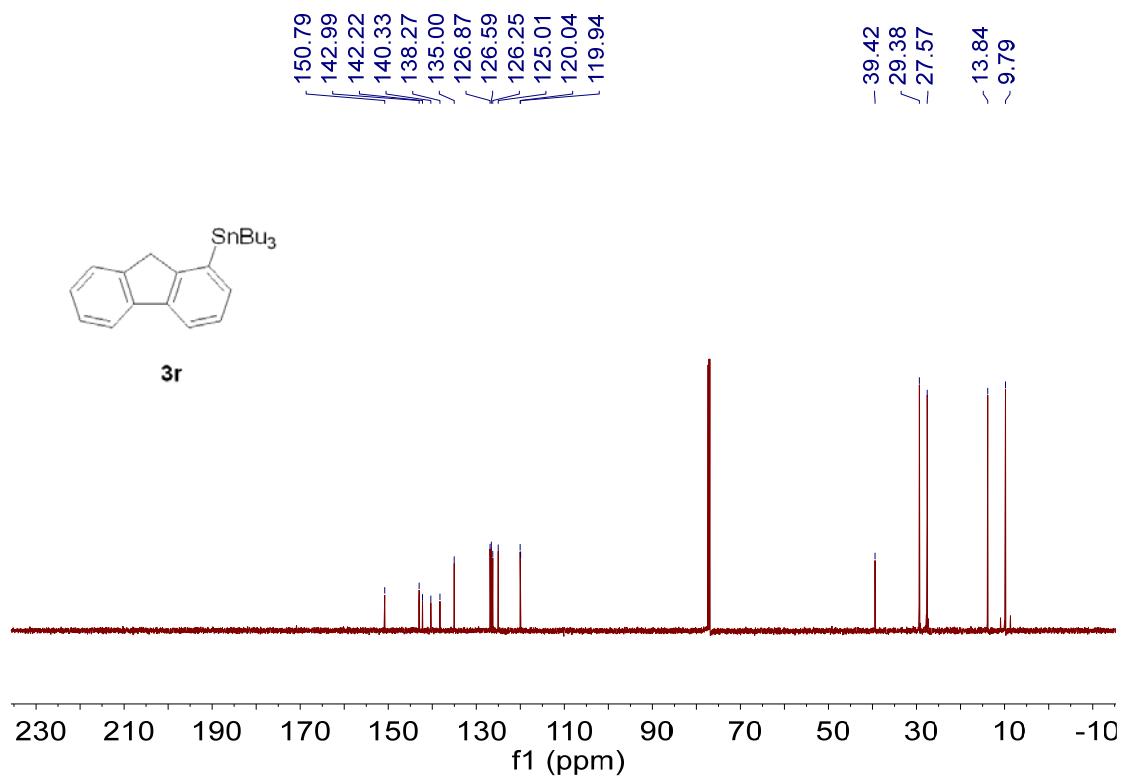


^1H NMR (600 MHz) spectrum of **3p** (CDCl_3 , rt).

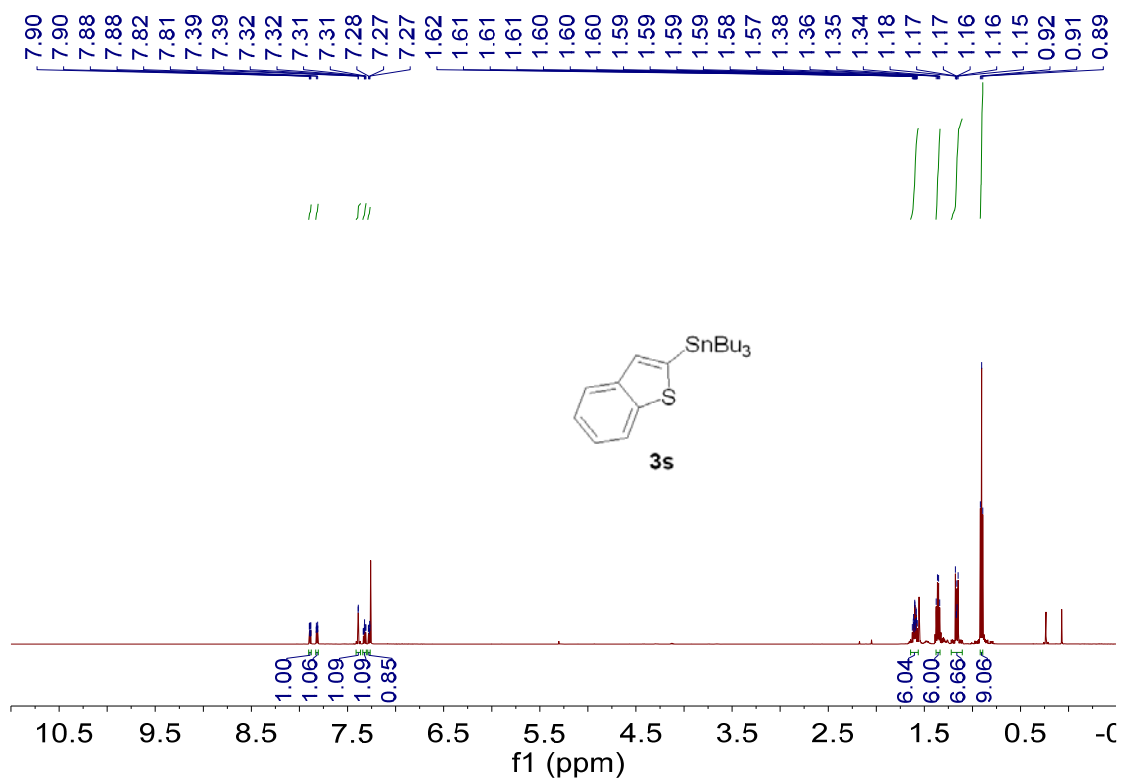


¹H NMR (600 MHz) spectrum of **3q** (CDCl₃, rt).

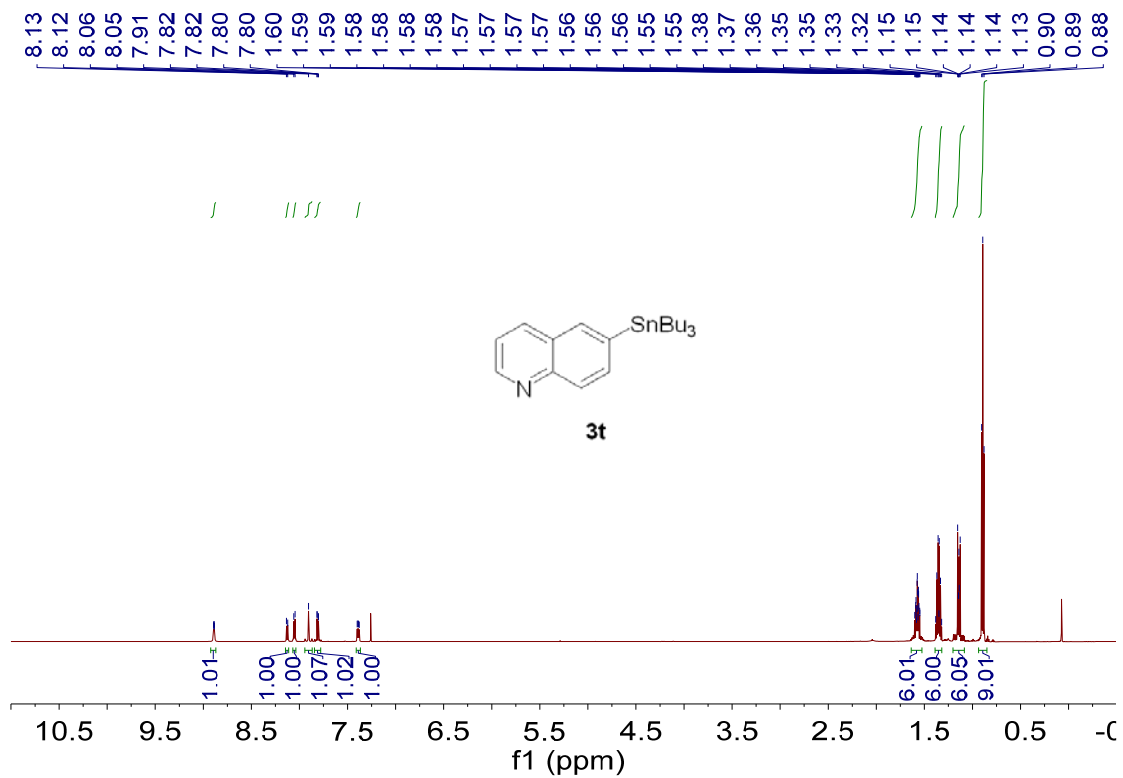




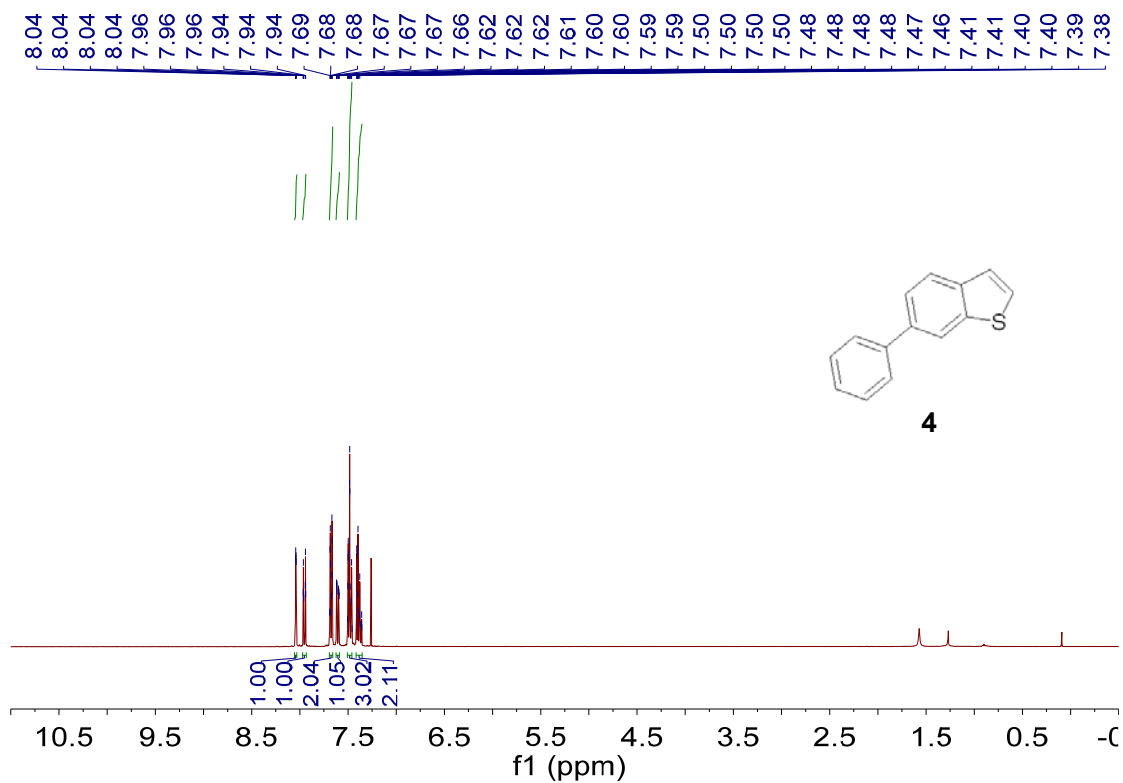
^1H NMR (600 MHz) and $^{13}\text{C}\{^1\text{H}\}$ NMR (151 MHz) spectra of **3r** (CDCl_3 , rt).



^1H NMR (600 MHz) spectrum of **3s** (CDCl_3 , rt).



^1H NMR (600 MHz) spectrum of **3t** (CDCl_3 , rt).



^1H NMR (600 MHz) spectrum of **4** (CDCl_3 , rt).