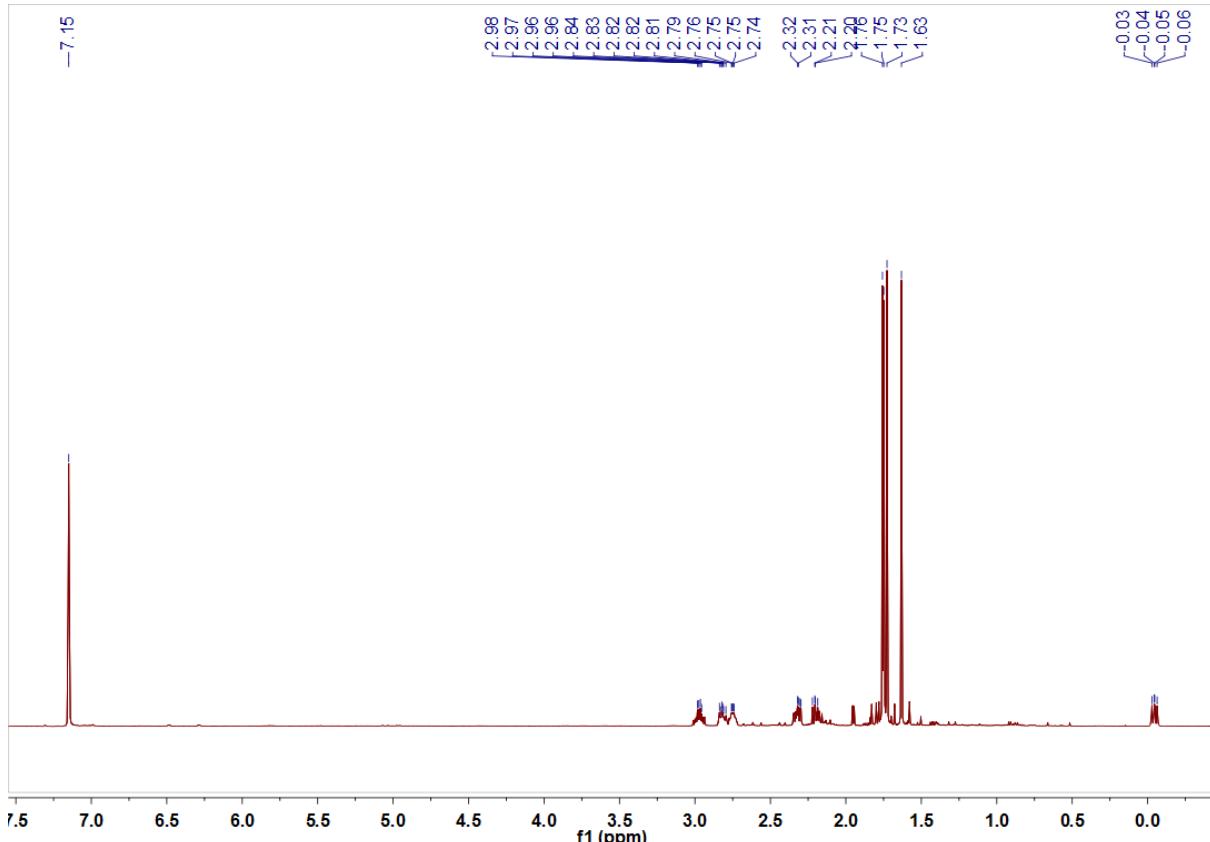
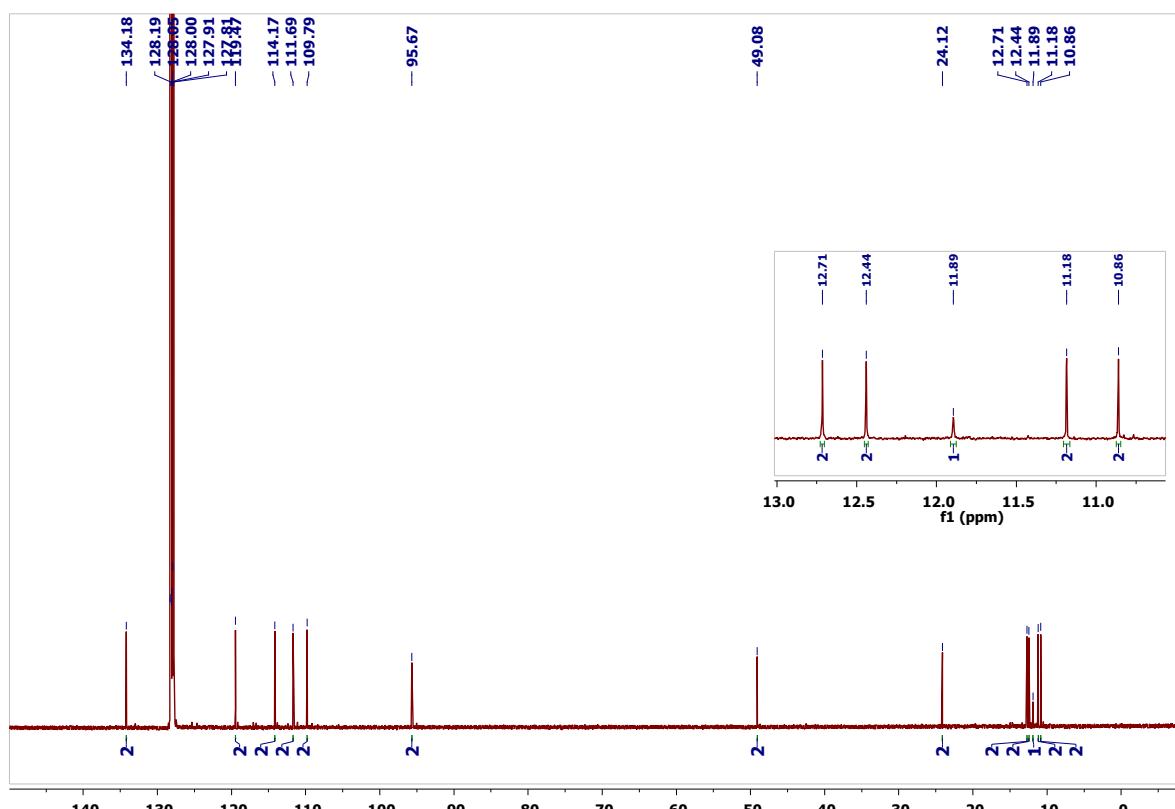


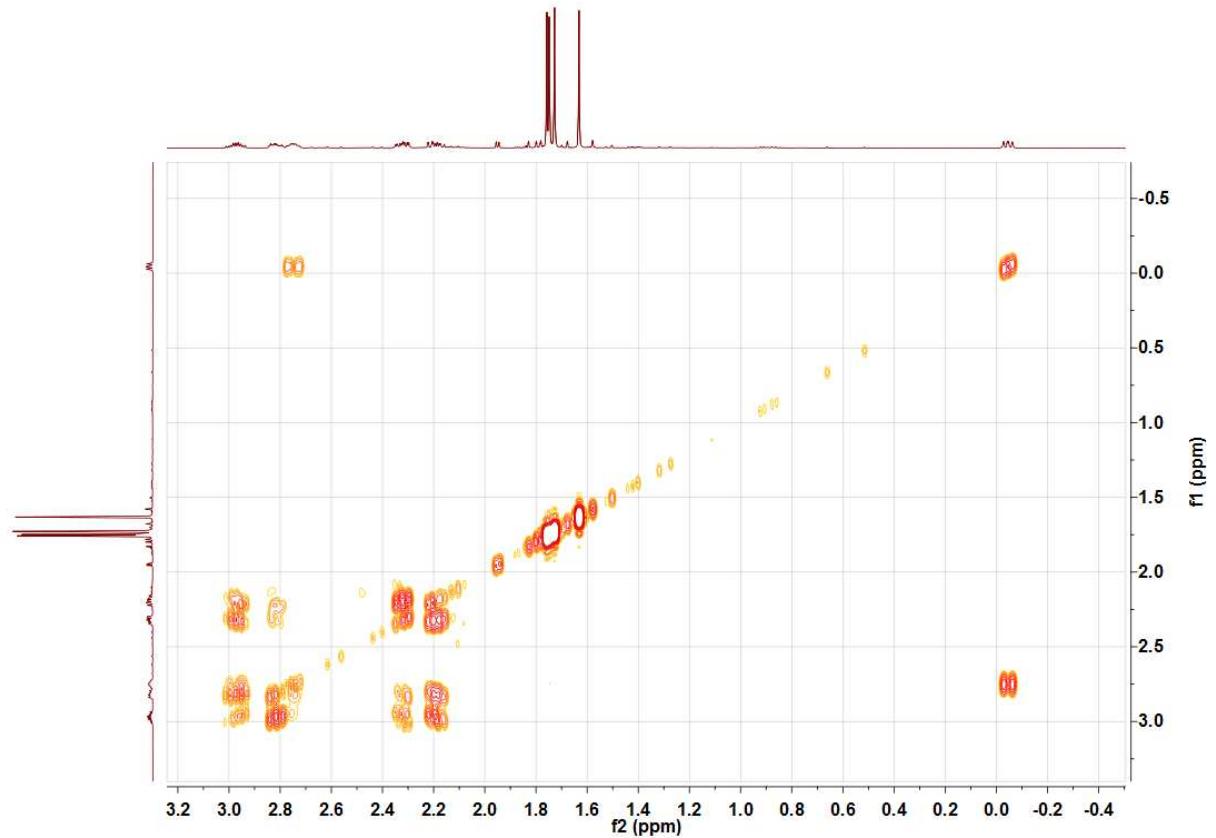
Supporting materials



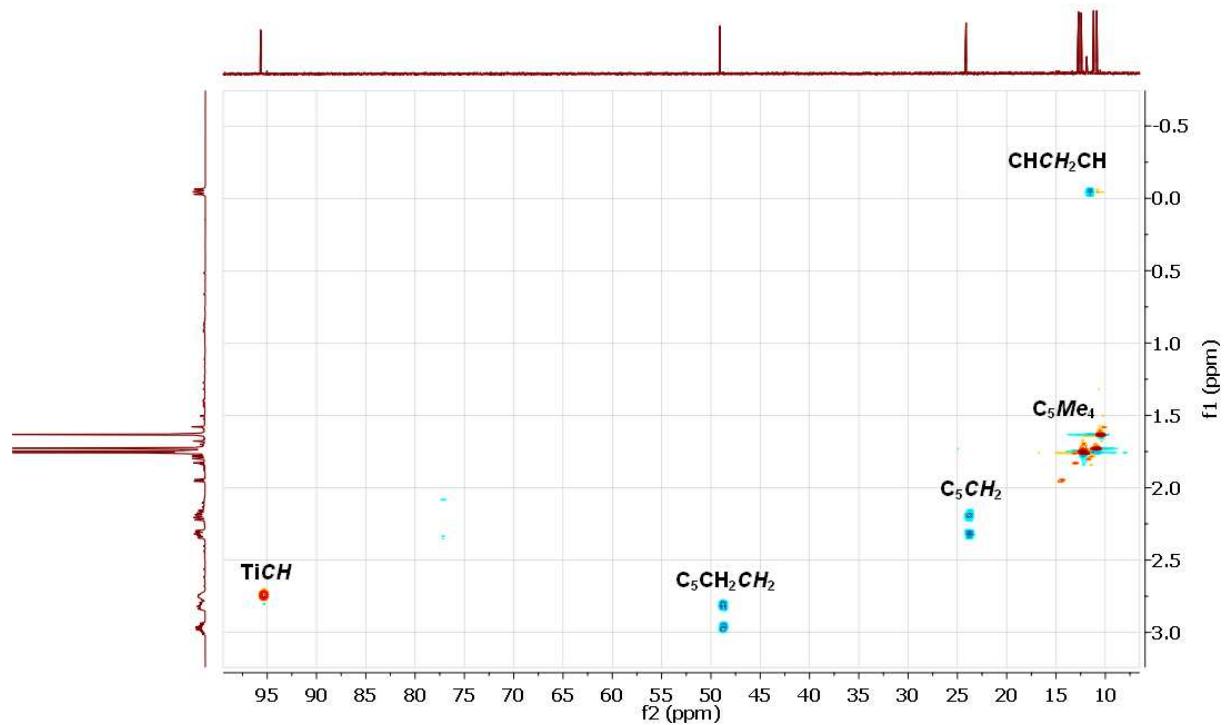
¹H NMR (500 MHz) spectrum of **2**.



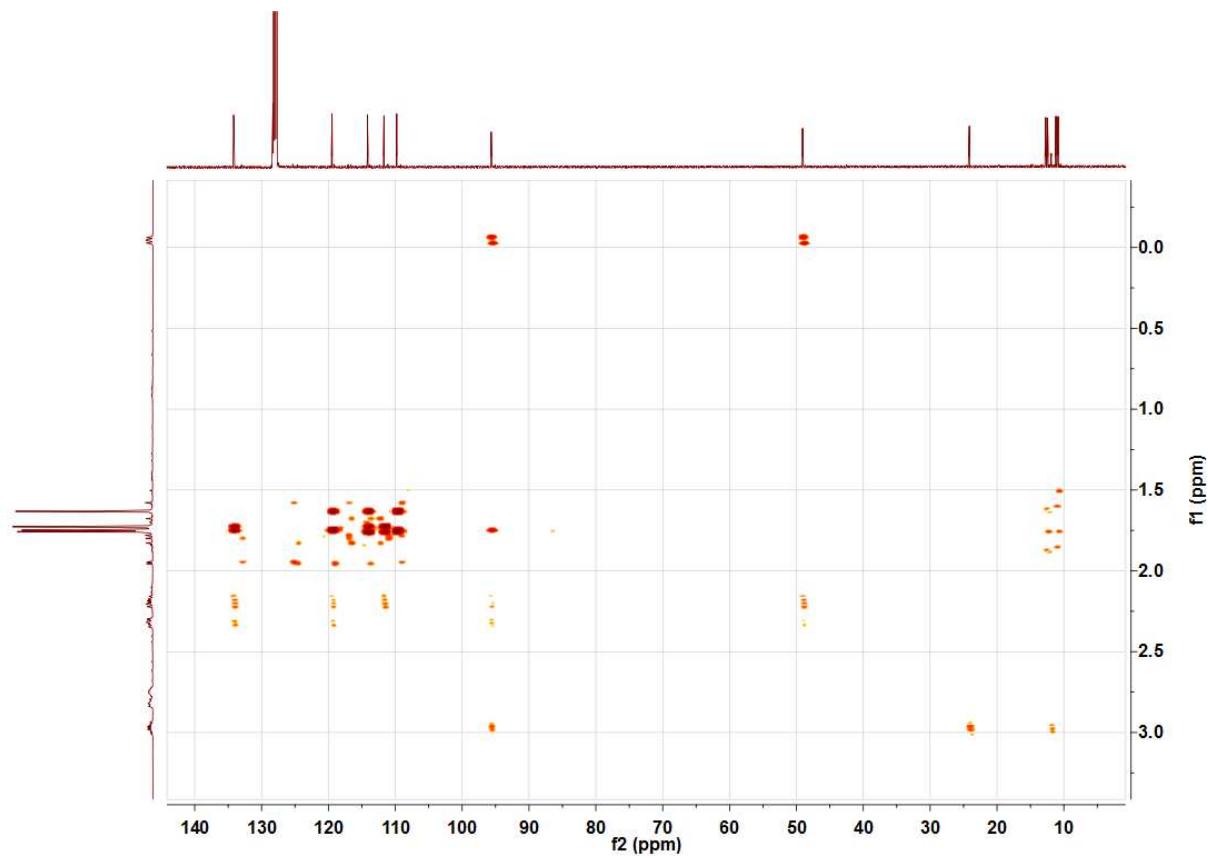
"Quantitative" (relaxation delay 58 s) $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz) spectrum of **2**.



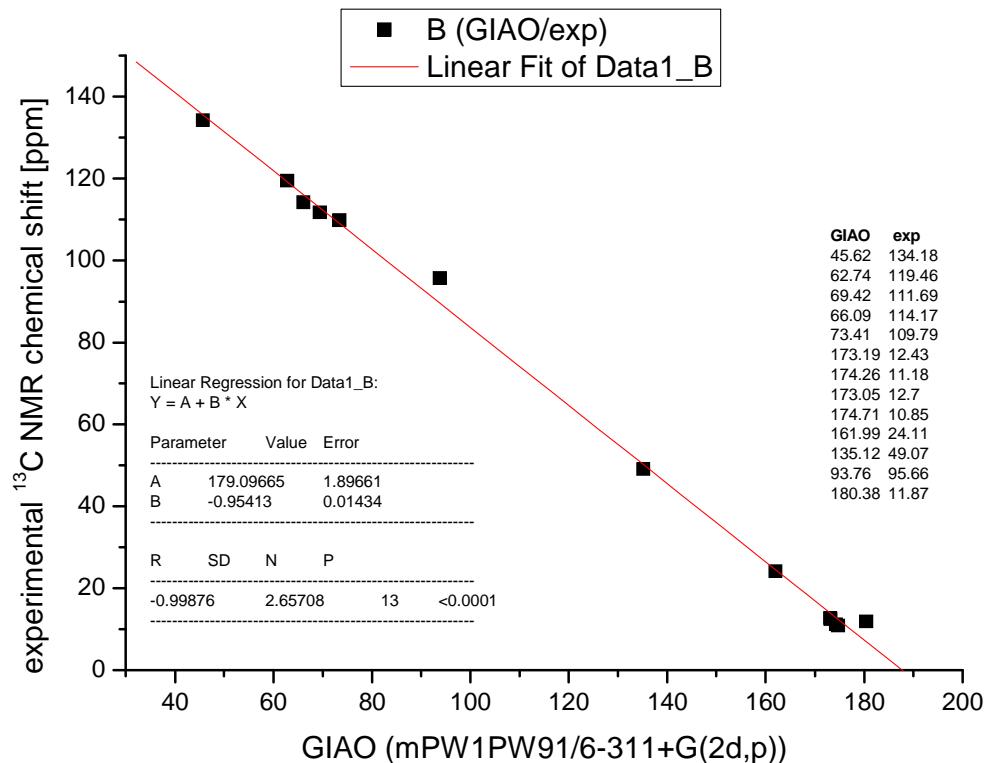
gCOSY spectrum of **2** (an expanded region).



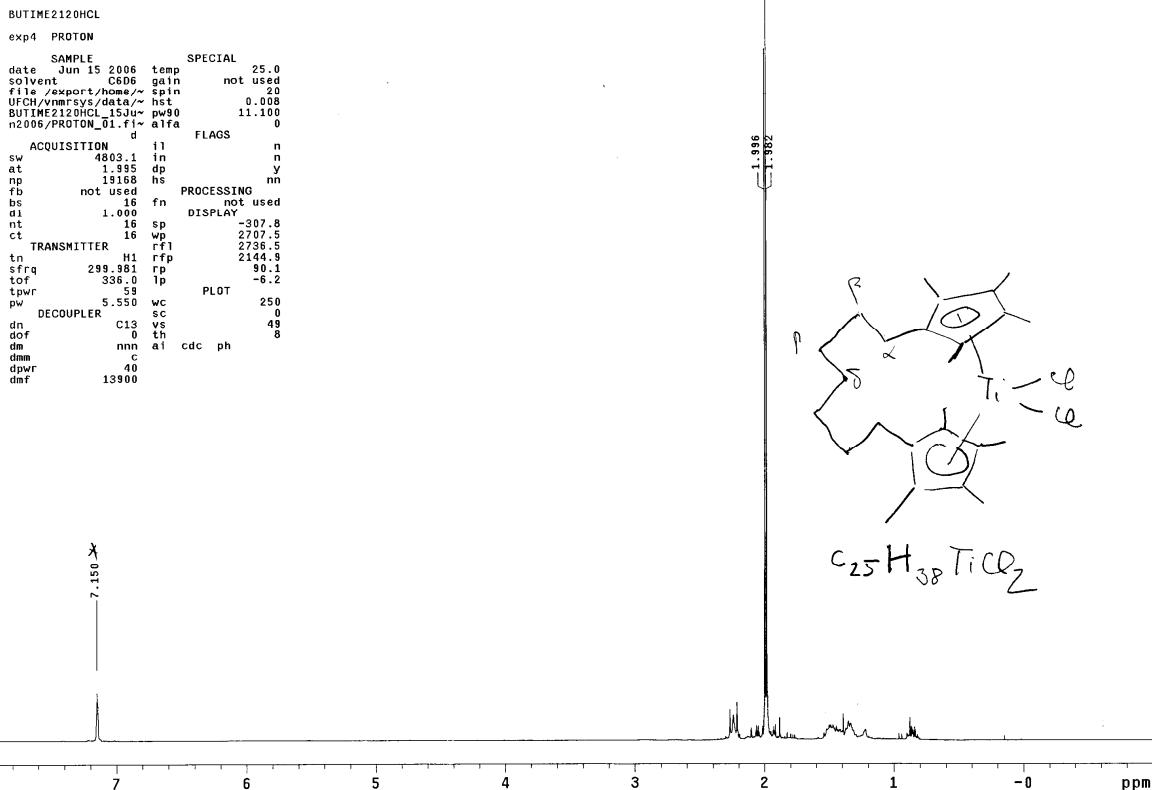
gHSQC spectrum of **2** (an expanded region).



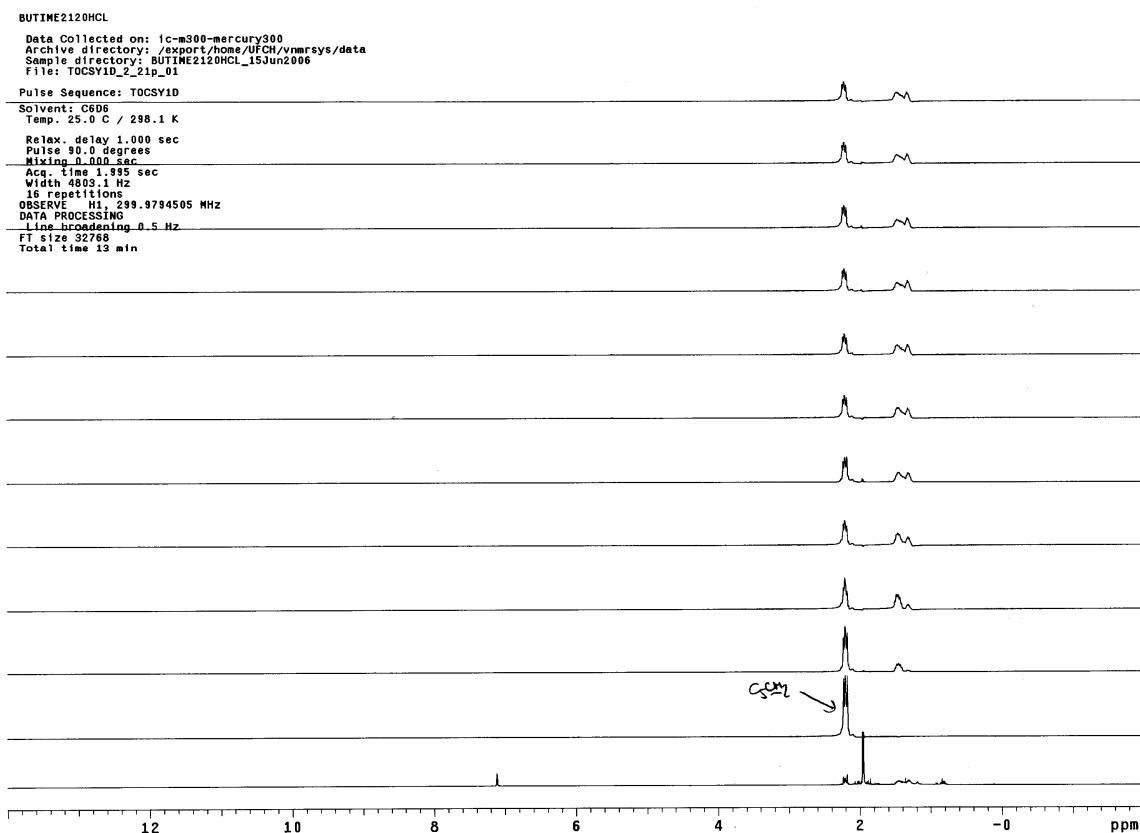
gHMBC spectrum of **2**.



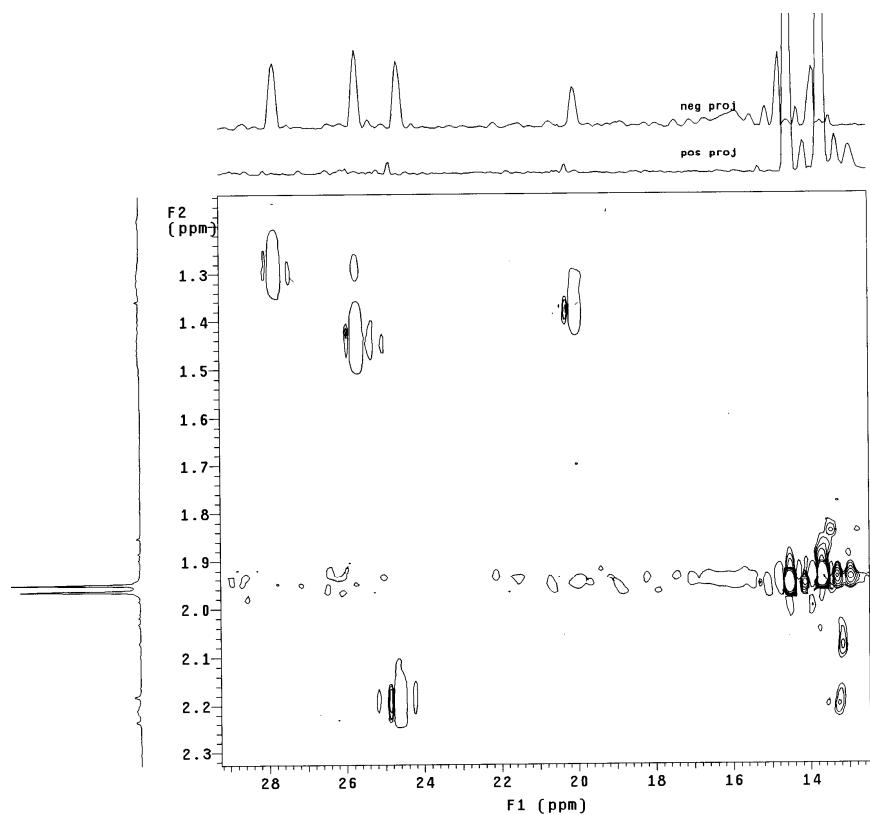
Correlation of observed ^{13}C NMR chemical shifts with calculated ones for **2**.



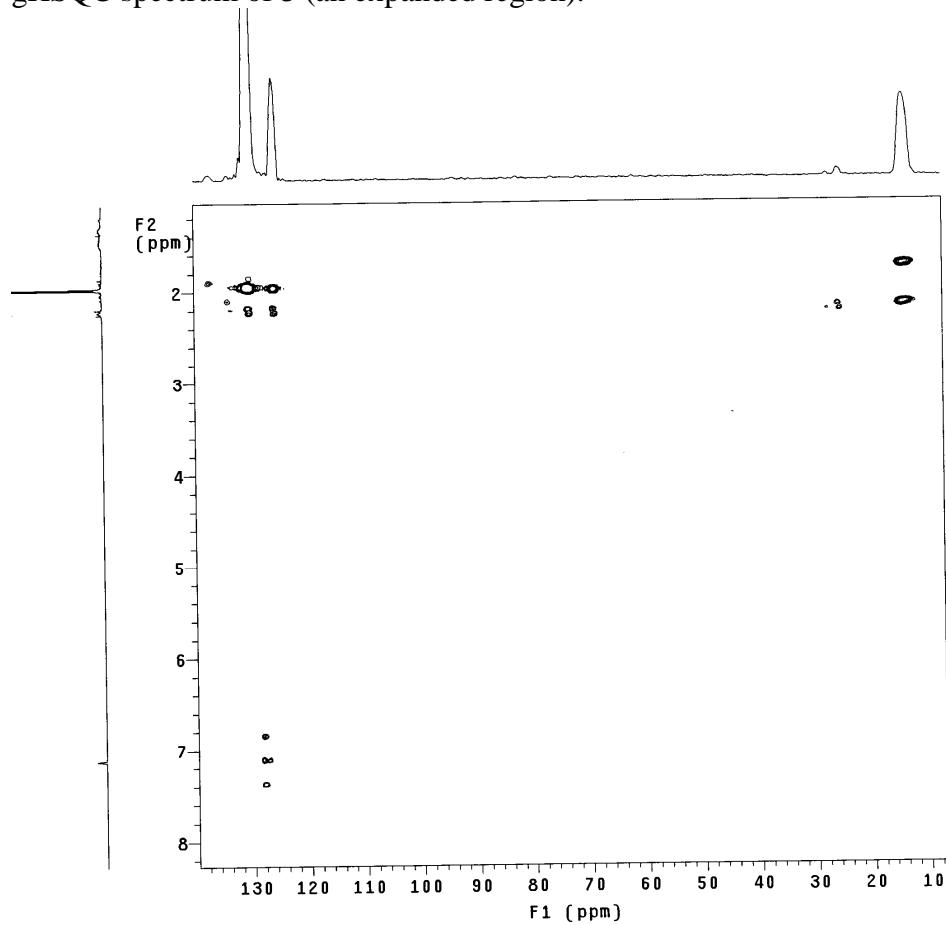
^1H NMR (300 MHz) spectrum of **3**.



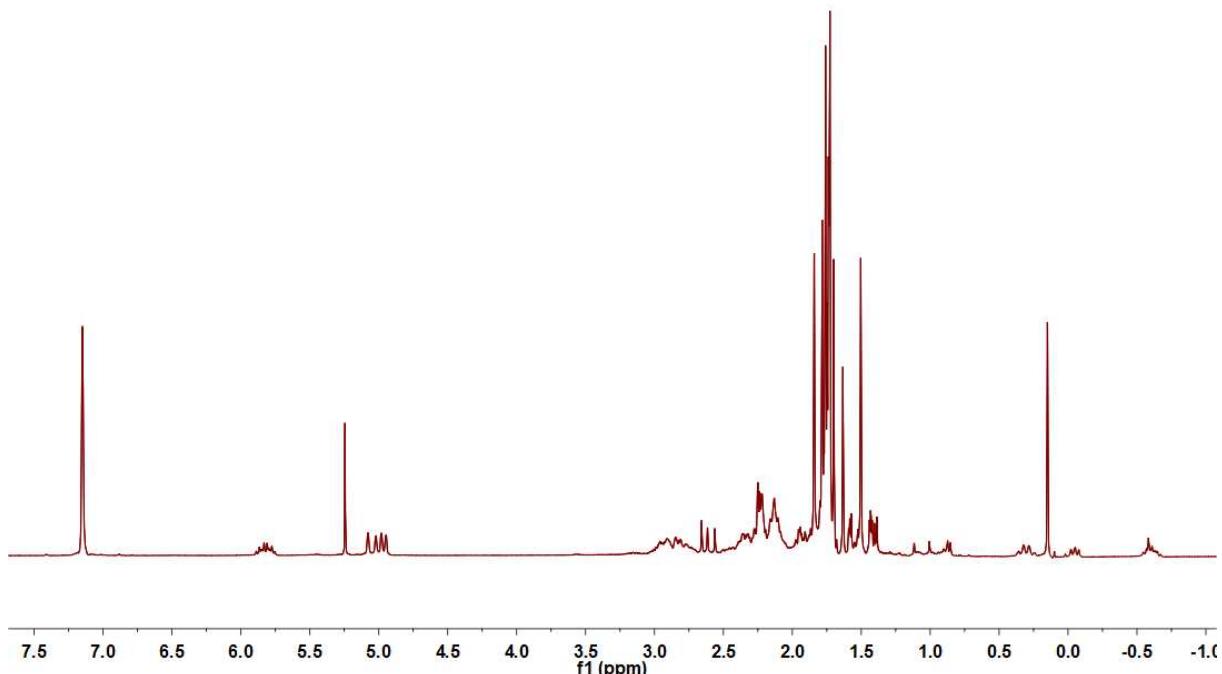
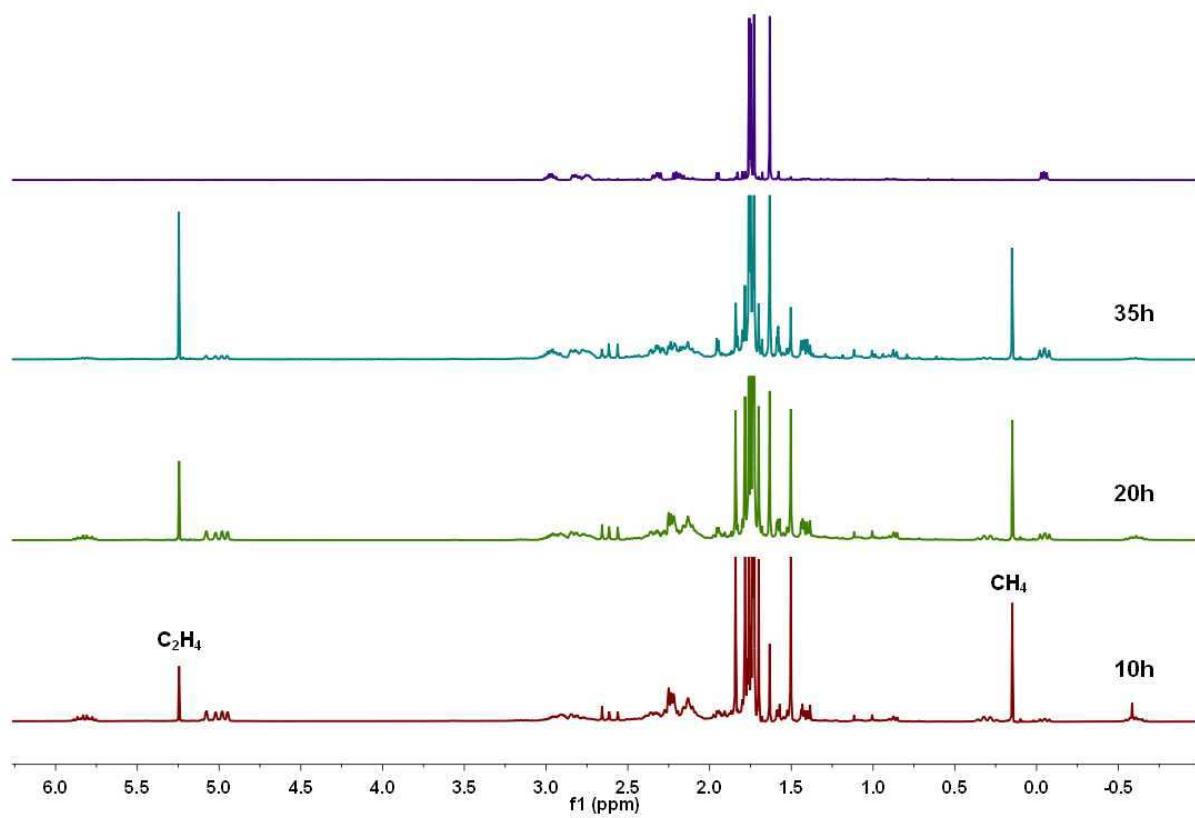
1DTOCSY spectra (arrayed mode; irradiation of signal at 2.20-2.29 ppm ($\alpha\text{-CH}_2$)) of **3**.

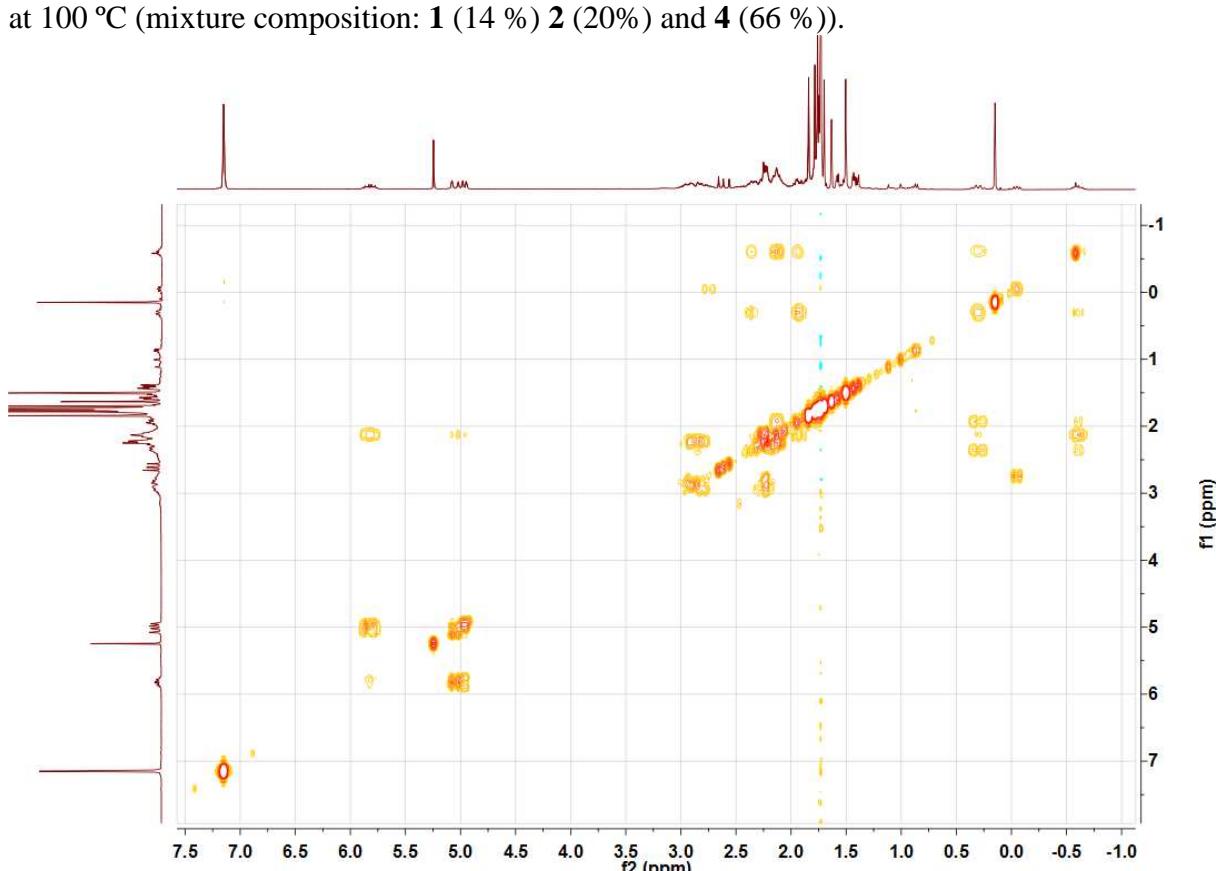
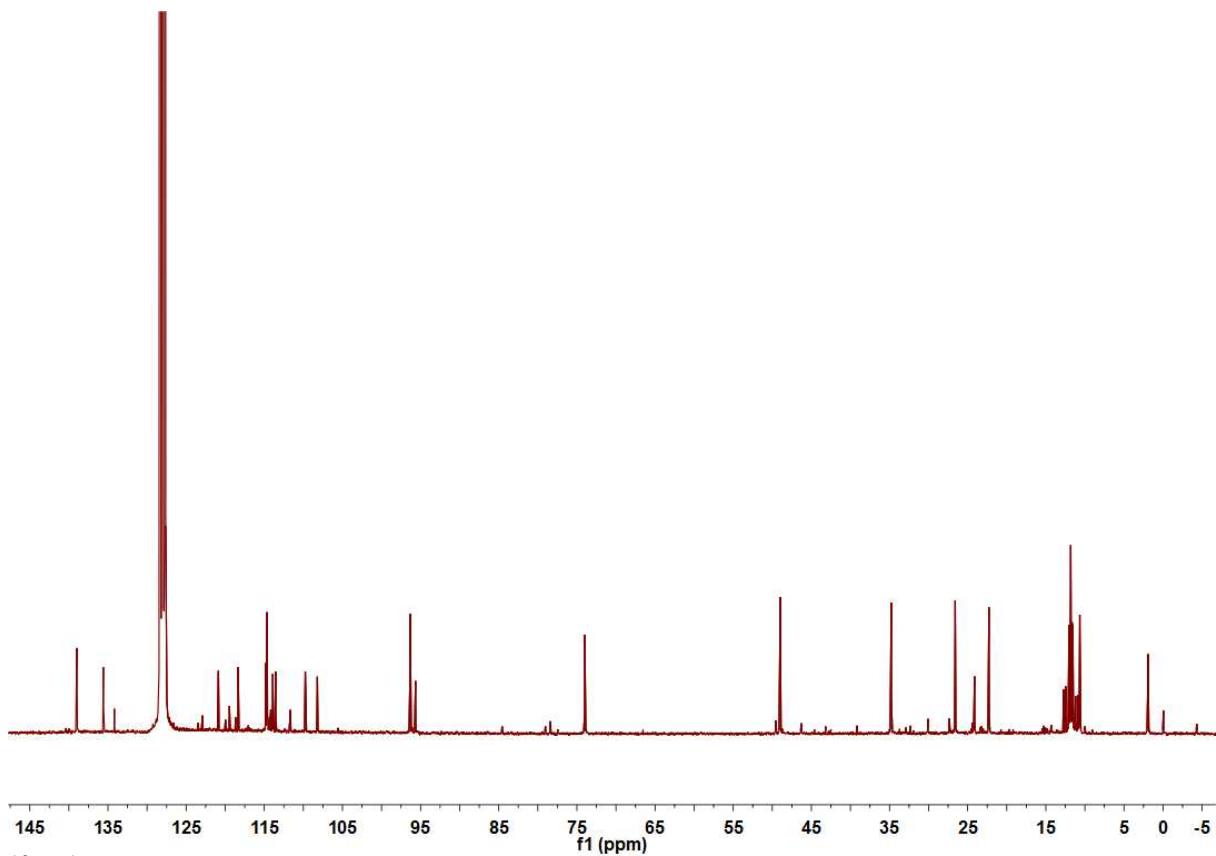


gHSQC spectrum of **3** (an expanded region).

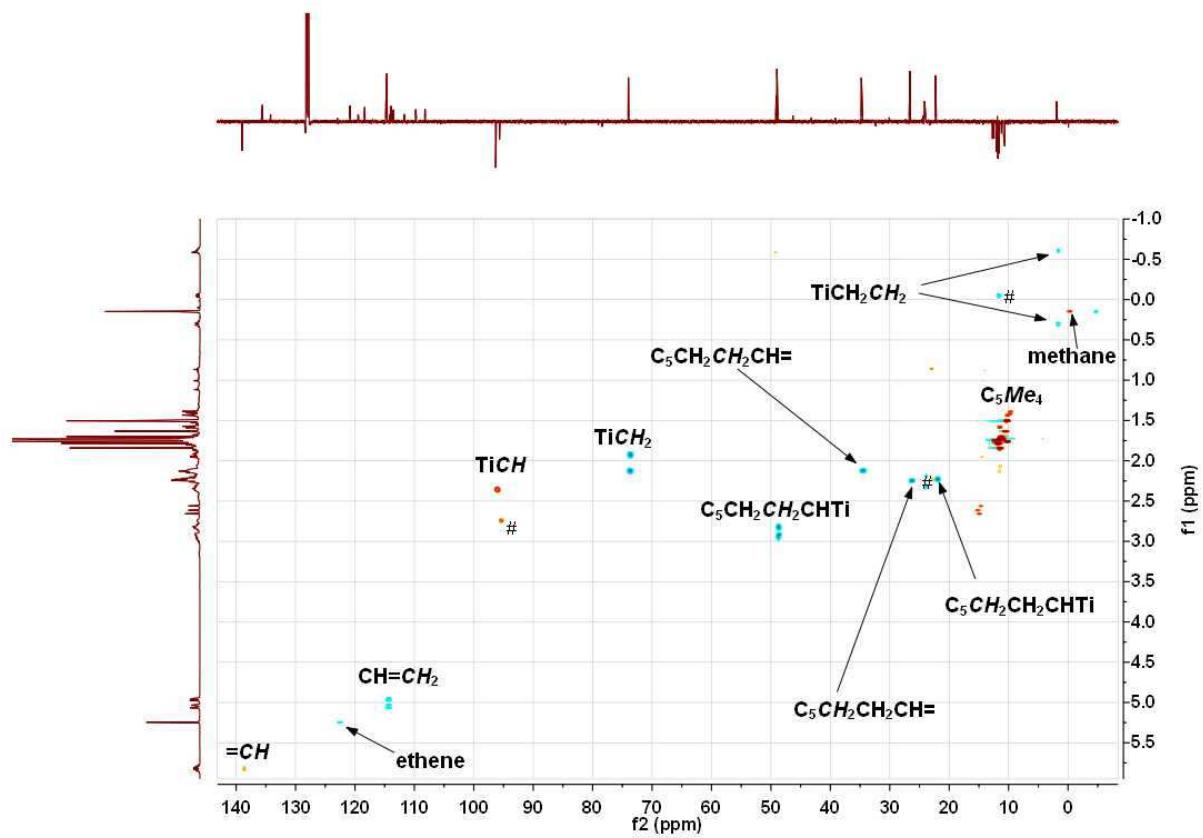


gHMBC spectrum of **3**.

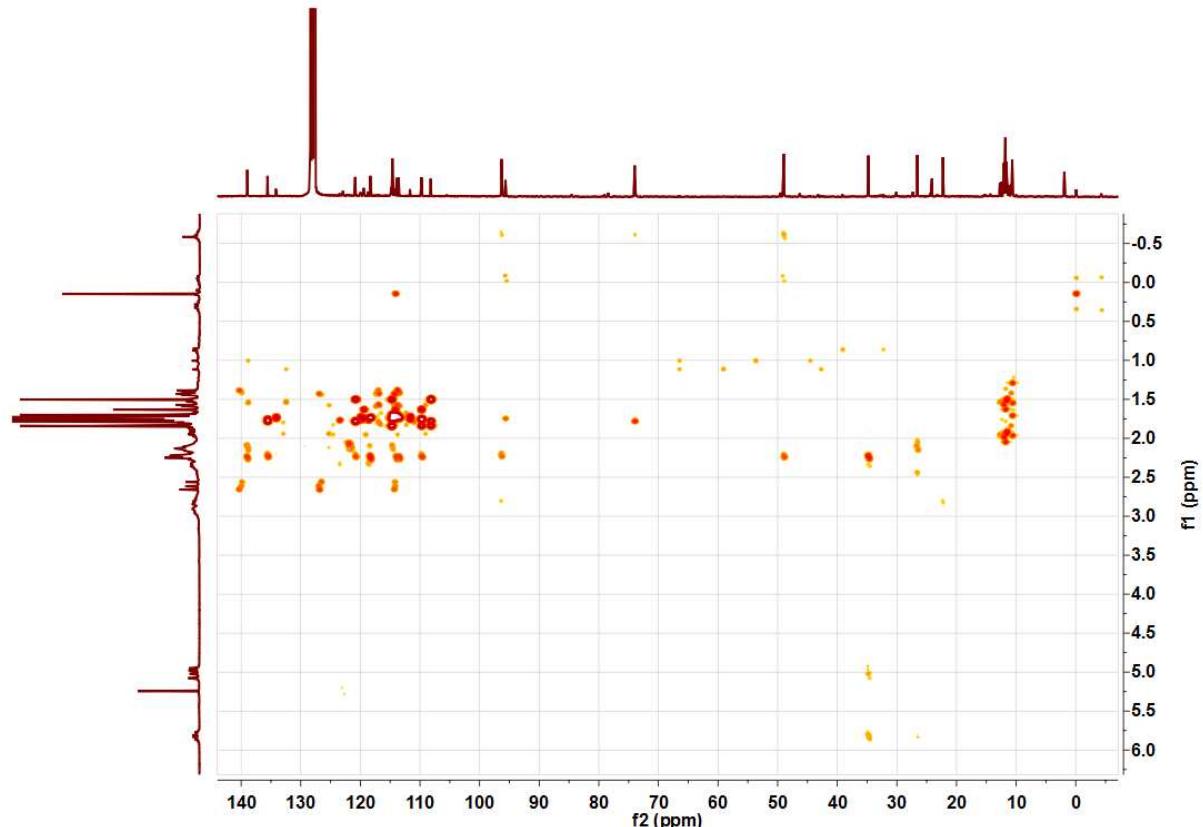




gCOSY spectrum of mixture obtained after heating of **1** in C_6D_6 for 10 h at 100 °C (mixture composition: **1** (14 %) **2** (20%) and **4** (66 %)).



gHSQC spectrum of mixture obtained after heating of **1** in C₆D₆ for 10 h at 100 °C (mixture composition: **1** (14 %) **2** (20%, signals marked (#)) and **4** (66 %, labeled signals)).



gHMBC spectrum of mixture obtained after heating of **1** in C₆D₆ for 10 h at 100 °C (mixture composition: **1** (14 %) **2** (20%) and **4** (66 %)).

