Electronic Supplementary Material (ESI) for Dalton Transactions.

Supporting Information

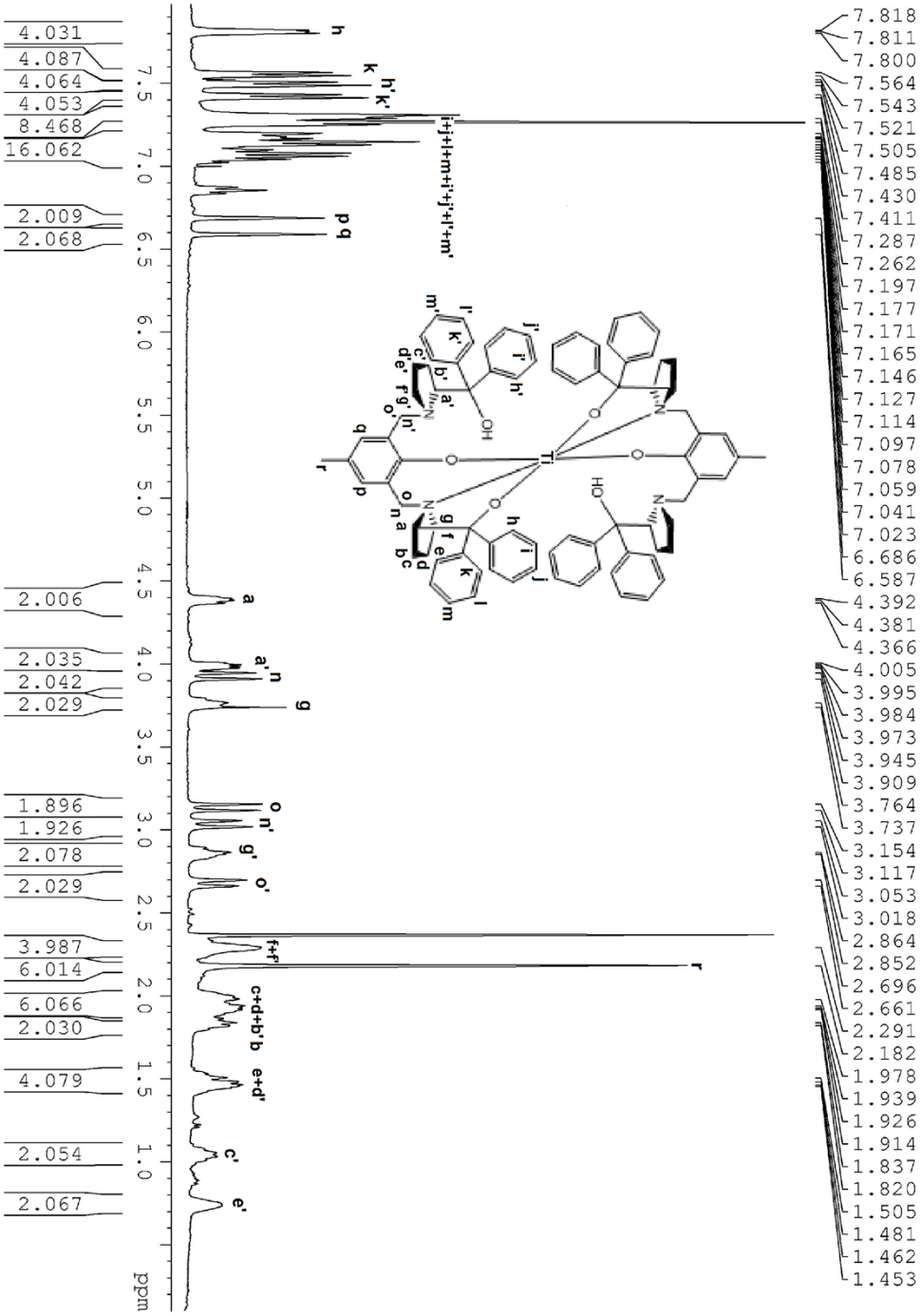

Fig. 1 ^{1}H NMR (400 MHz, $CDCl_3$) spectrum of **1**.

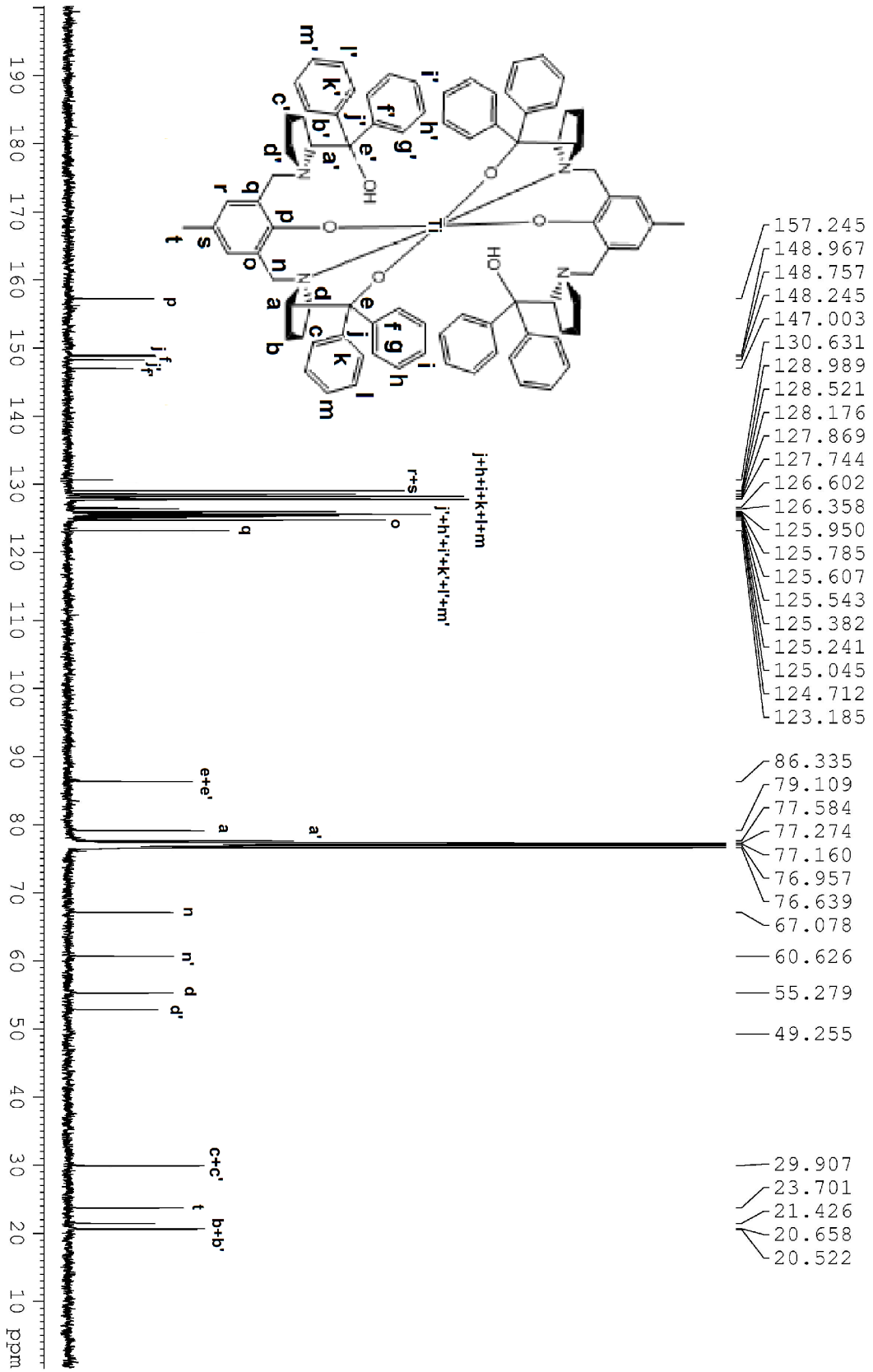

Fig. 2 ^{13}C NMR (400 MHz, $CDCl_3$) spectrum of **1**

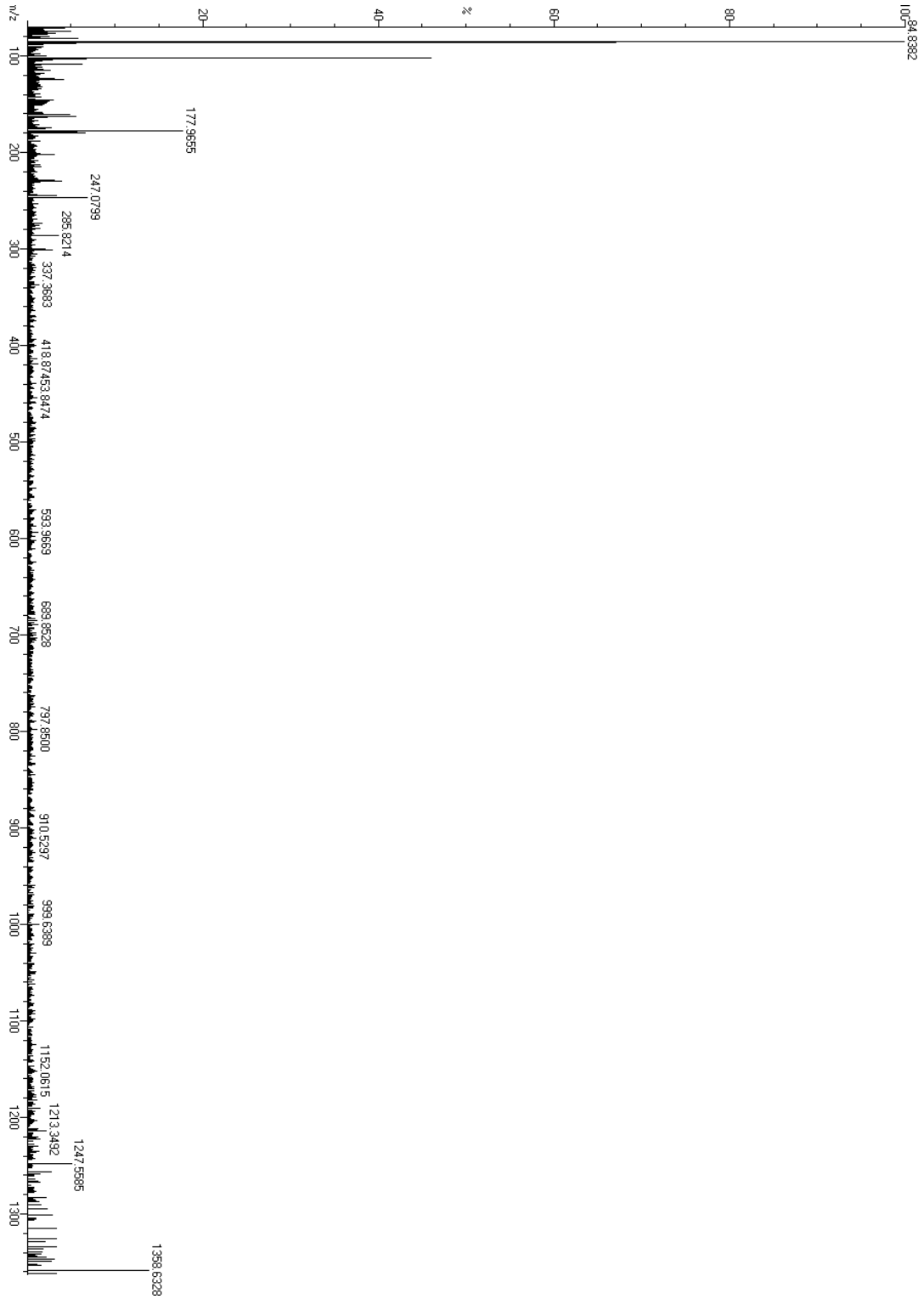

Fig. 3 ESI-MS spectrum of **1**

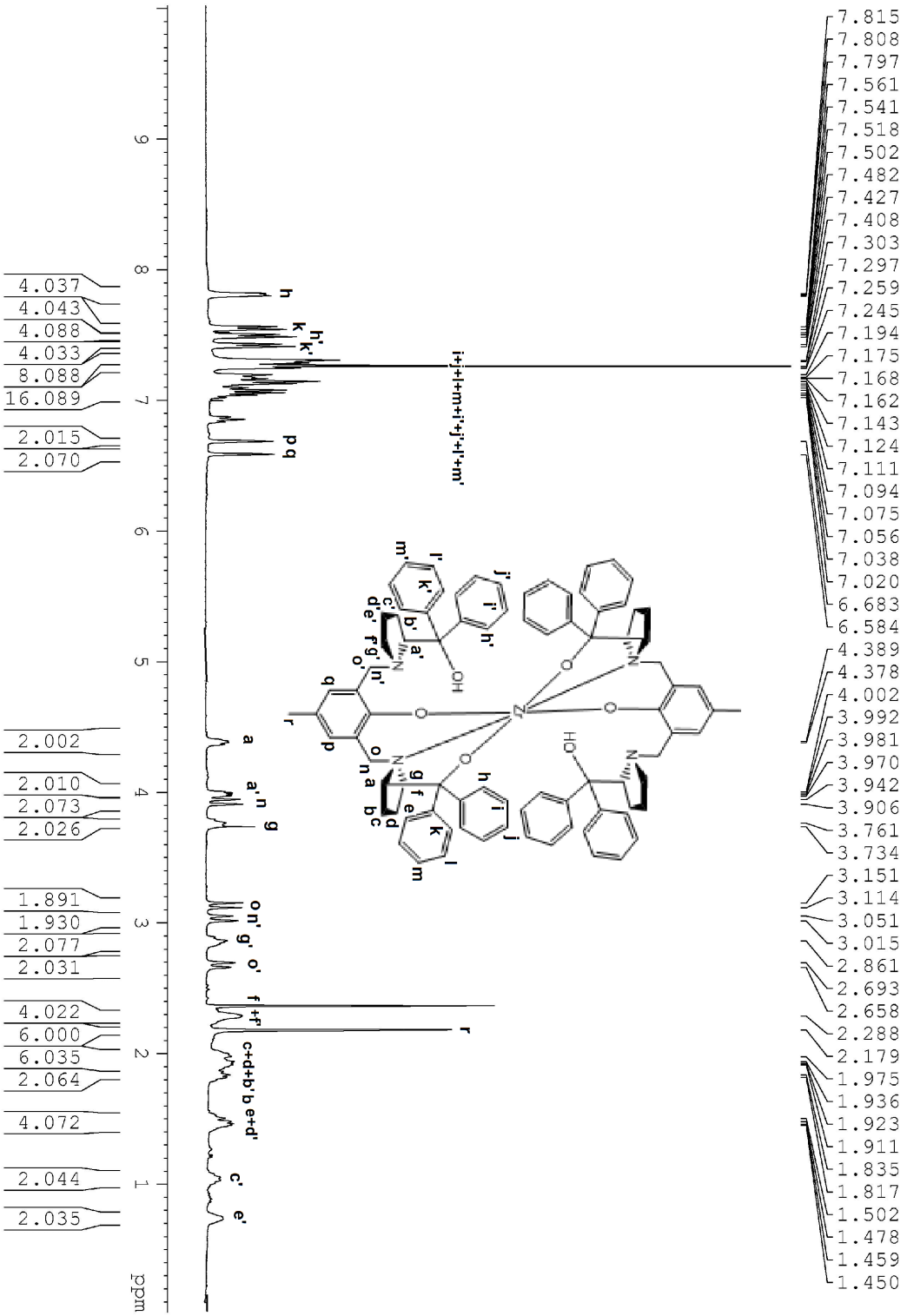

Fig. 4 ^{1}H NMR (400 MHz, $CDCl_3$) spectrum of **2.**

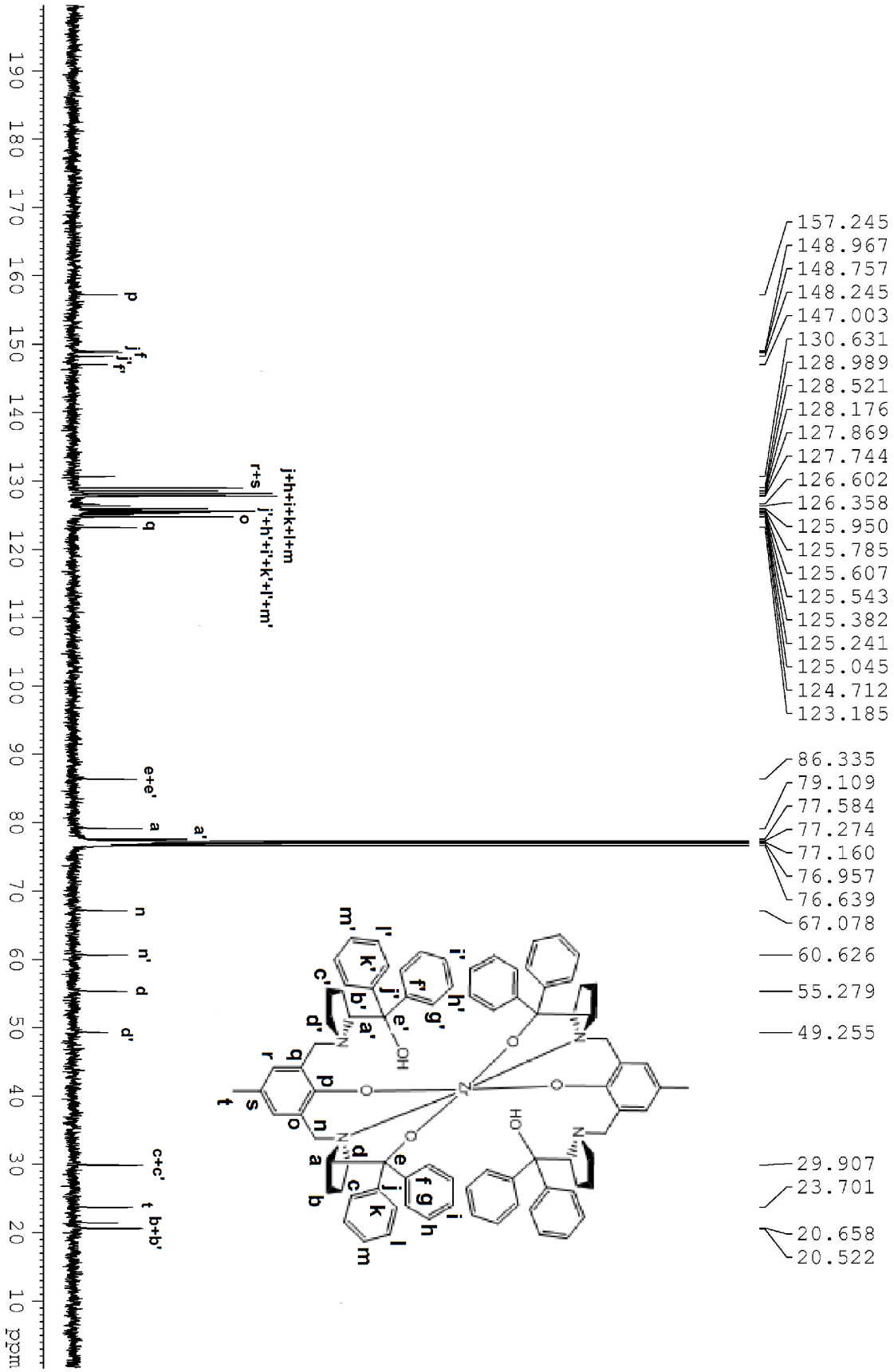

Fig. 5 ^{13}C NMR (400 MHz, $CDCl_3$) spectrum of **2.**

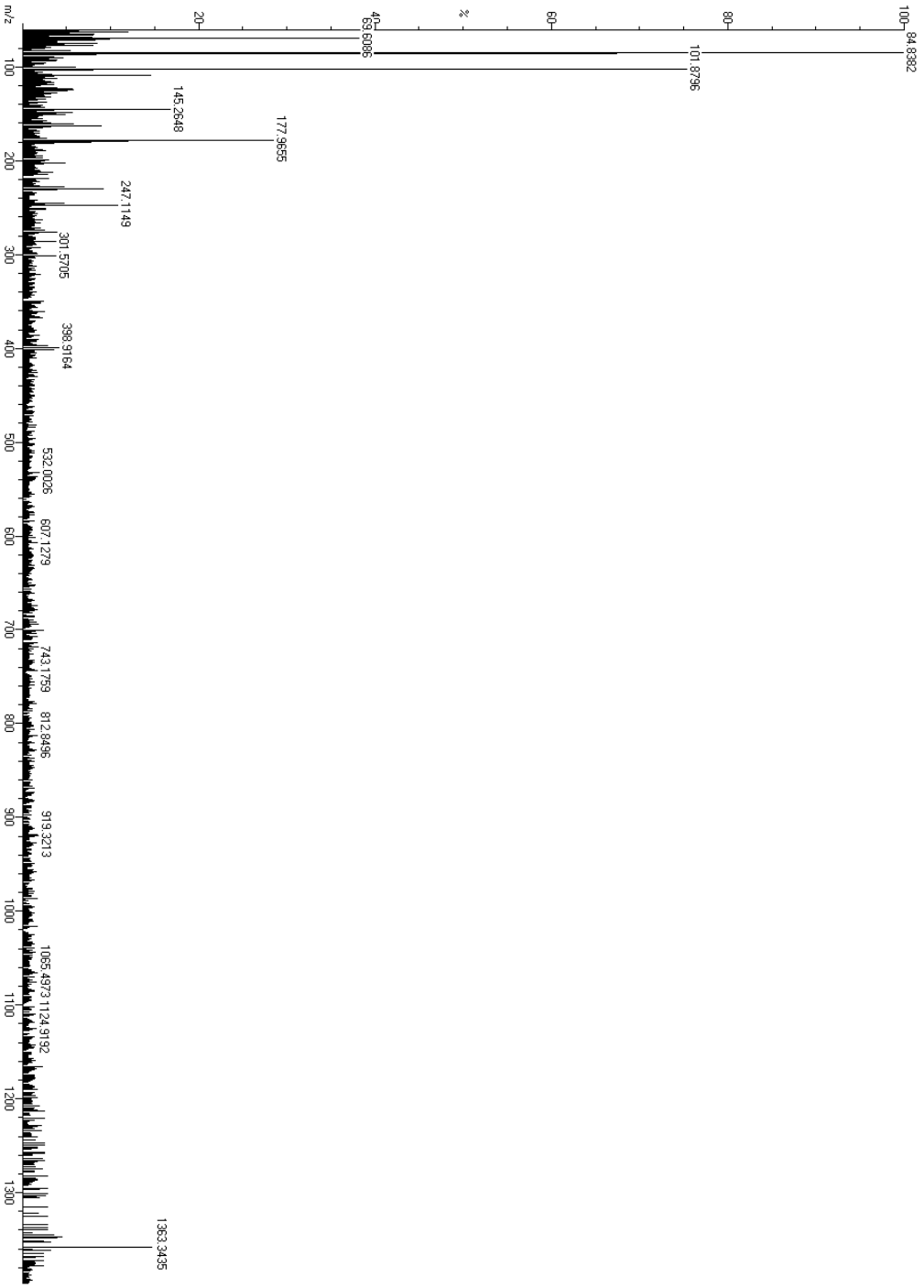

Fig. 6 ESI-MS spectrum of **2.**

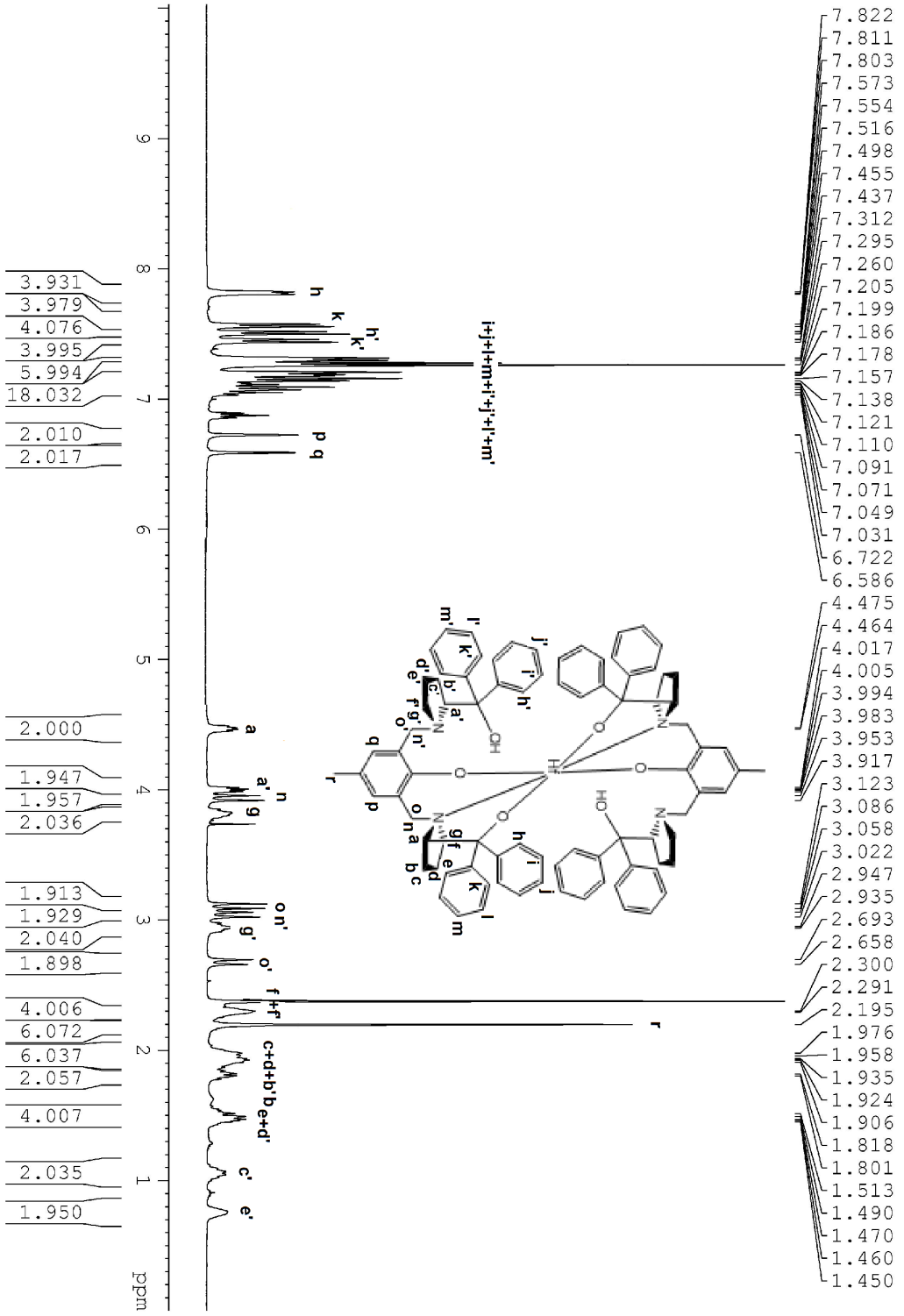

Fig. 7 ^{1}H NMR (400 MHz, $CDCl_3$) spectrum of **3**.

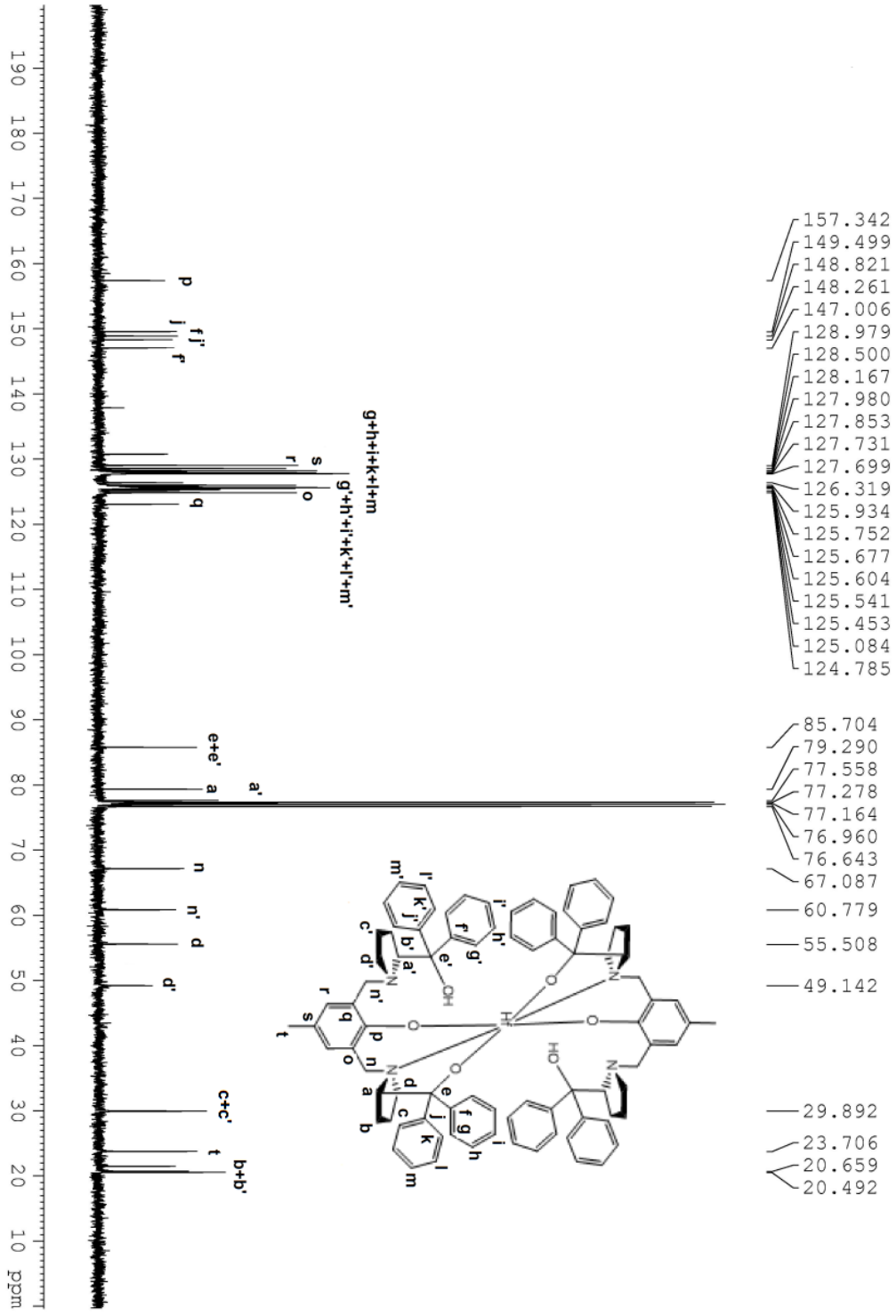

Fig. 8 ^{13}C NMR (400 MHz, $CDCl_3$) spectrum of **3**.

Fig. 9 ESI-MS spectrum of **3**.

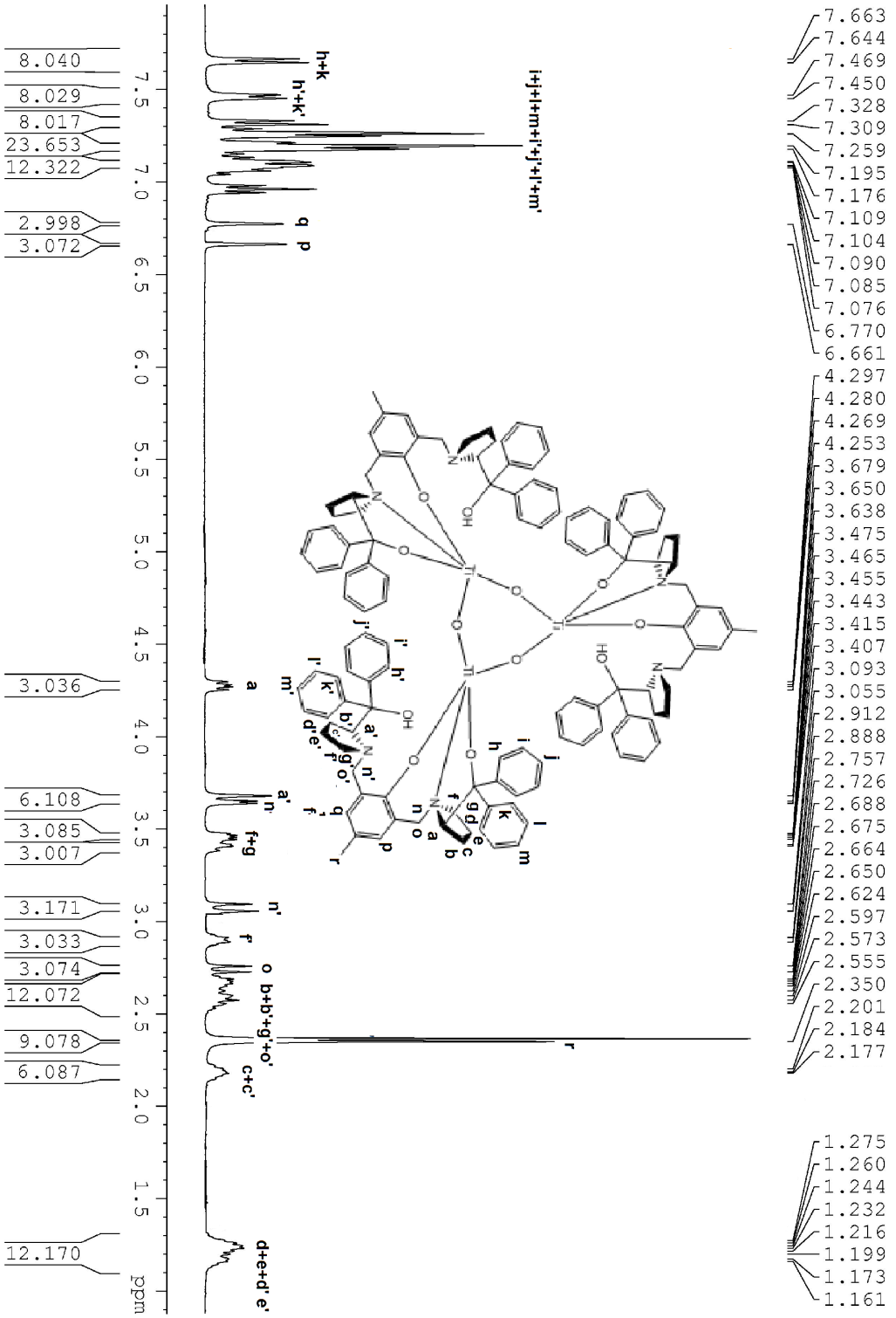

Fig. 10 ^{1}H NMR (400 MHz, $CDCl_3$) spectrum of **4**.

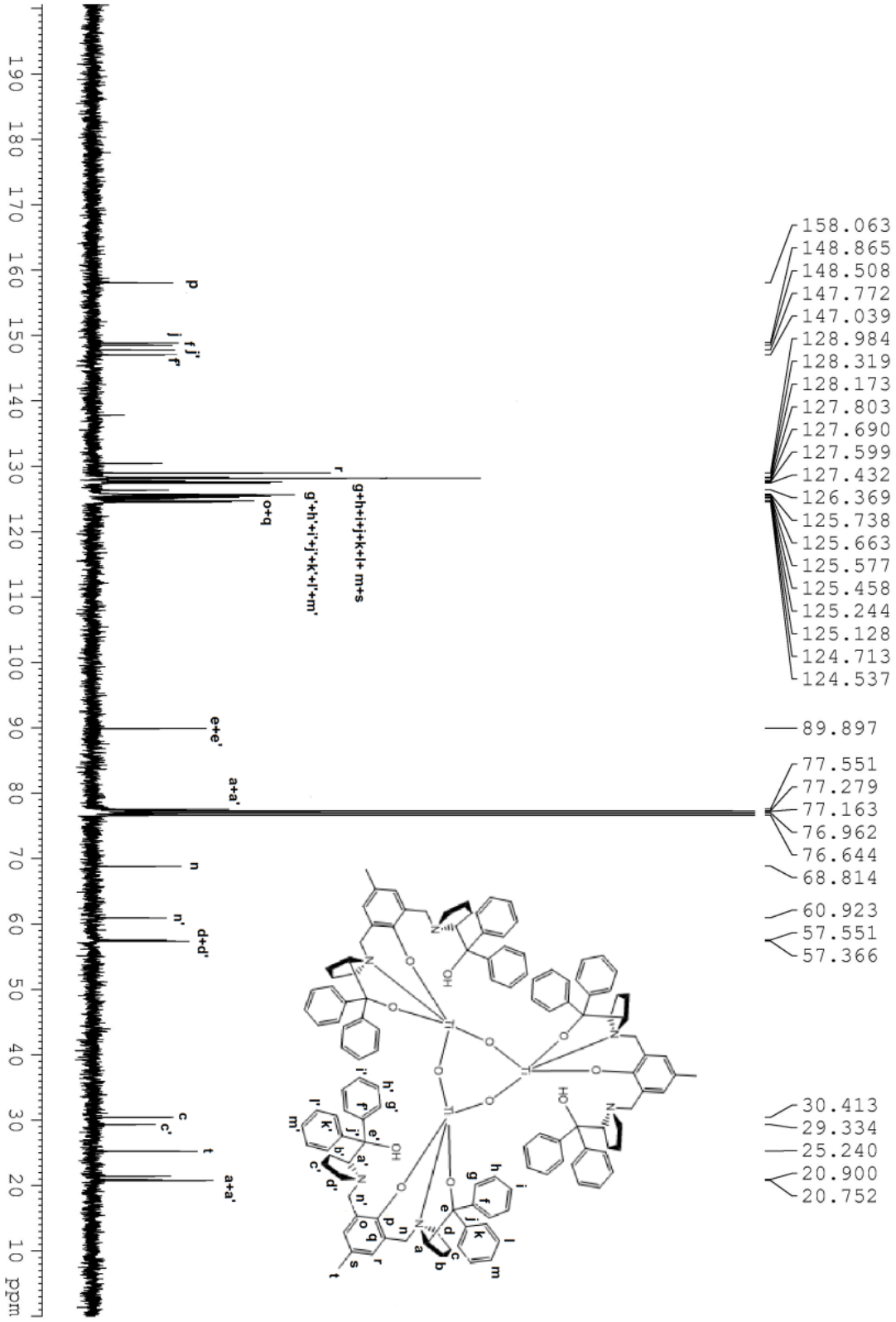

Fig. 11 ^{13}C NMR (400 MHz, $CDCl_3$) spectrum of **4**.

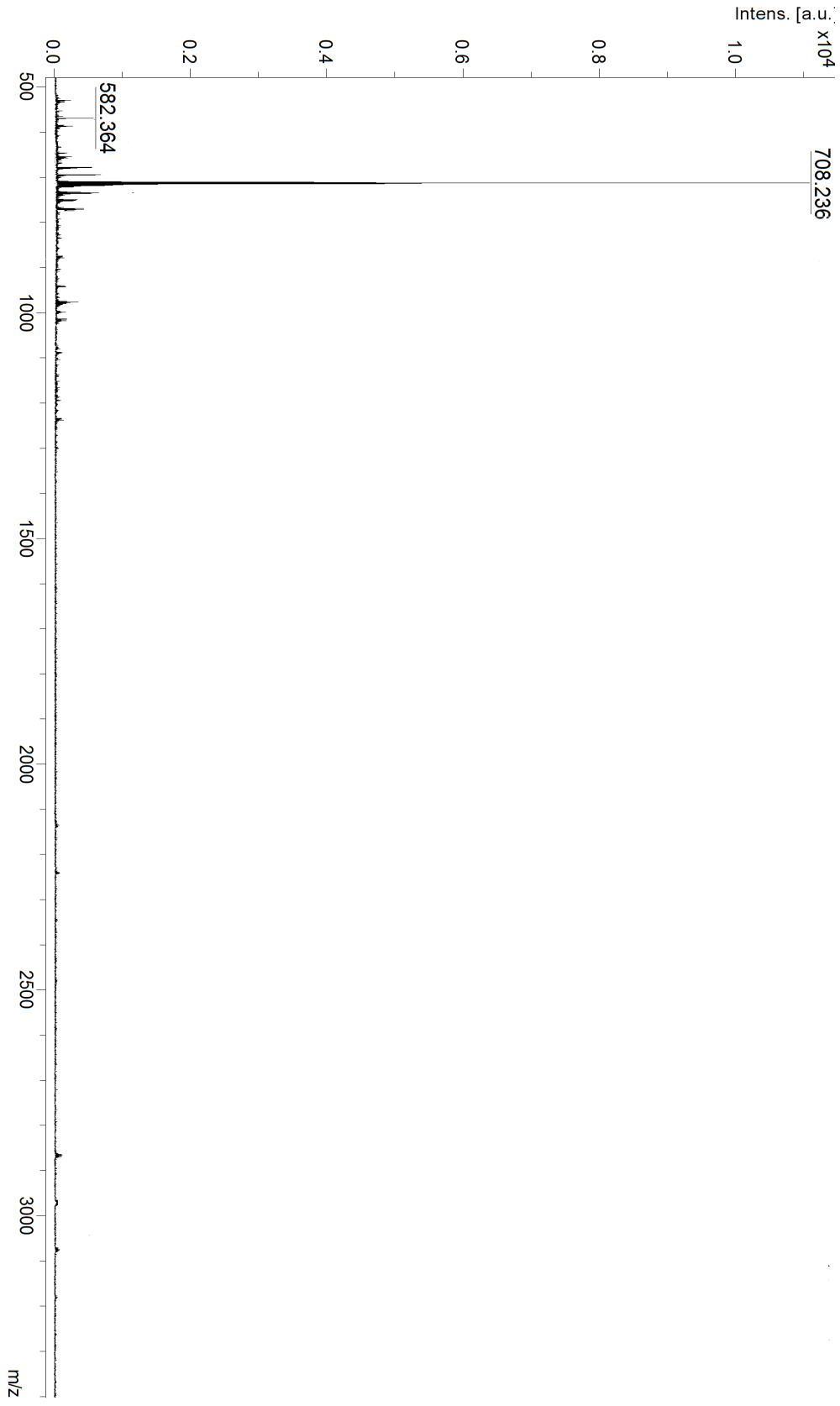

Fig. 12 ESI-MS spectrum of **4**.

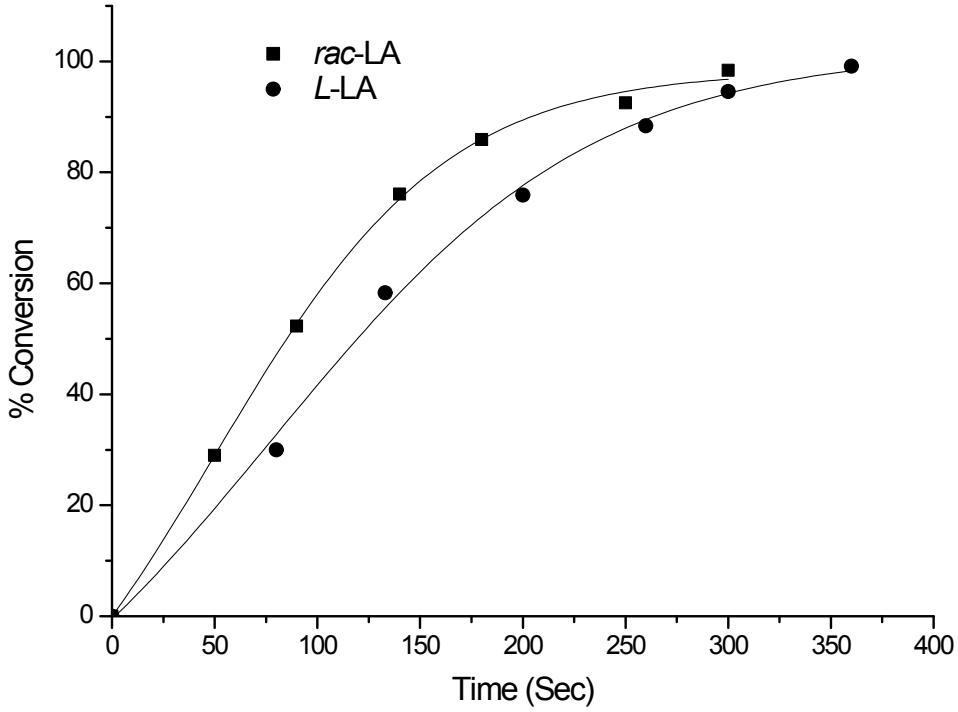

Fig. 13 *rac*-LA and *L*-LA conversion vs. time plot using 2: $[M]_o/[I]_o = 200$ at 140 °C.

Microstructural analysis

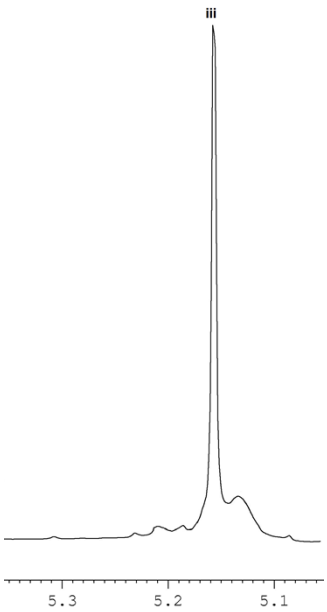

Fig.14 Methine region of homonuclear decoupled ^{1}H NMR spectra of isotactic PLA obtained from *L*-LA polymerization initiated by **2** ($CDCl_3$, 500 MHz).