

## Synthesis of (*R*)- and (*S*)-isomers of 2-methylspermidine

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### General

NMR spectra of the title and intermediate compounds were measured on a Bruker Avance III (300 MHz for <sup>1</sup>H; 75.4 MHz for <sup>13</sup>C) instrument using CDCl<sub>3</sub> or D<sub>2</sub>O as solvents. Chemical shifts are given in parts per million (ppm) (δ relative to residual CDCl<sub>3</sub> peak for <sup>1</sup>H and <sup>13</sup>C spectra in CDCl<sub>3</sub>, or relative to DSS for <sup>1</sup>H and <sup>13</sup>C spectra in D<sub>2</sub>O). The letter “*J*” indicates normal <sup>3</sup>*J*<sub>HH</sub> couplings, if not specified, and all *J* values are given in hertz.

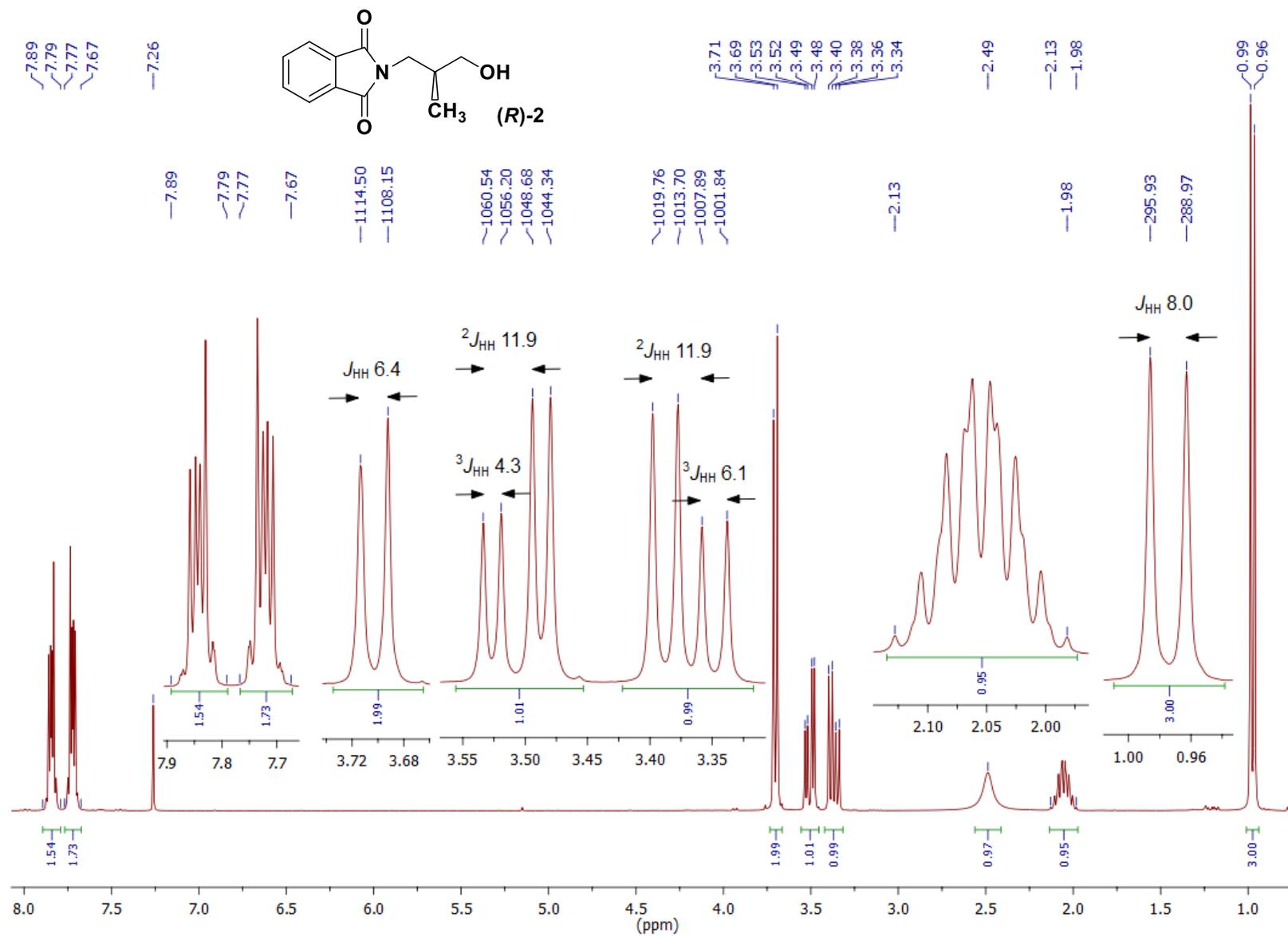


Figure S1. <sup>1</sup>H-NMR spectrum of (R)-2

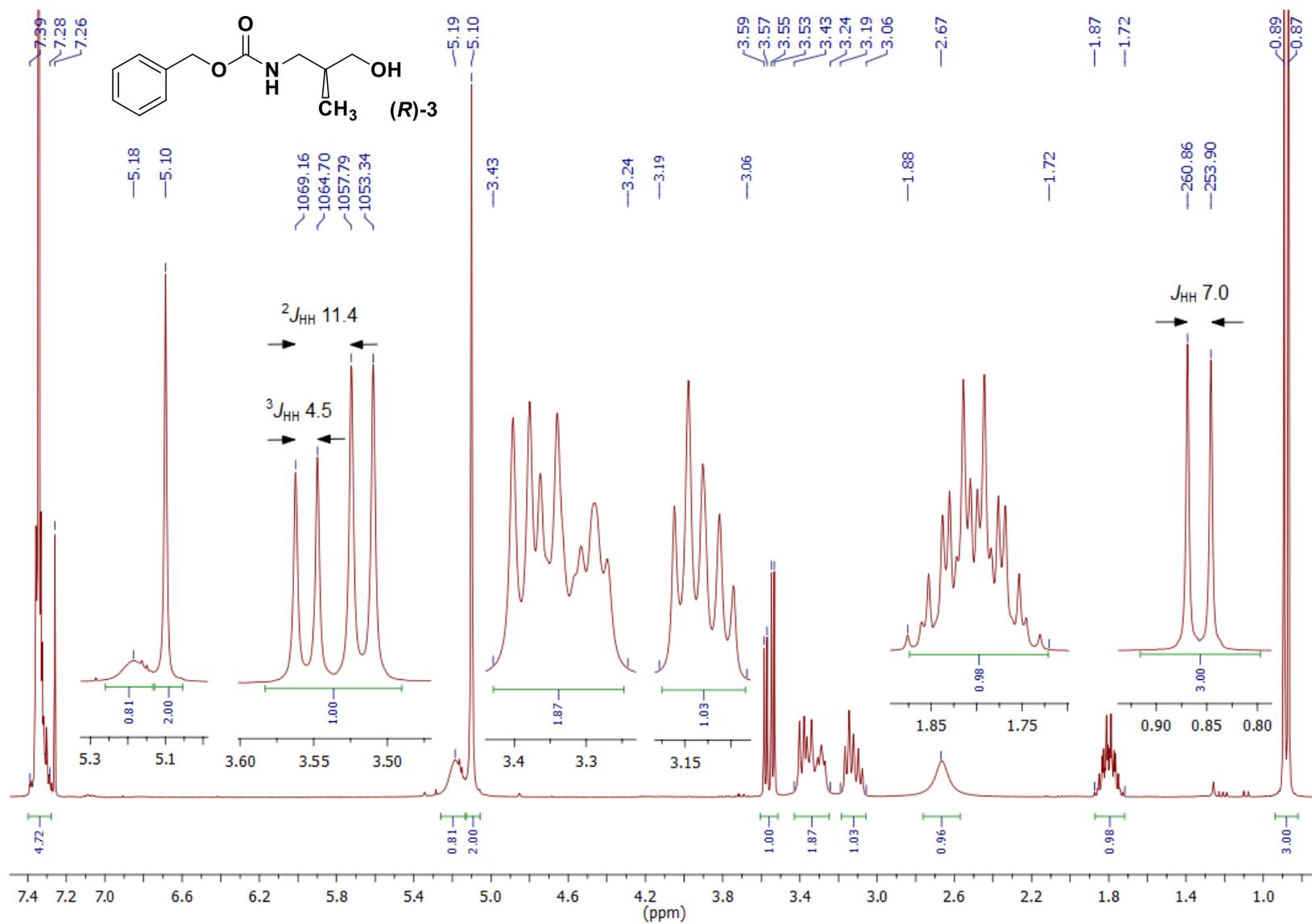


Figure S2. <sup>1</sup>H-NMR spectrum of (R)-3

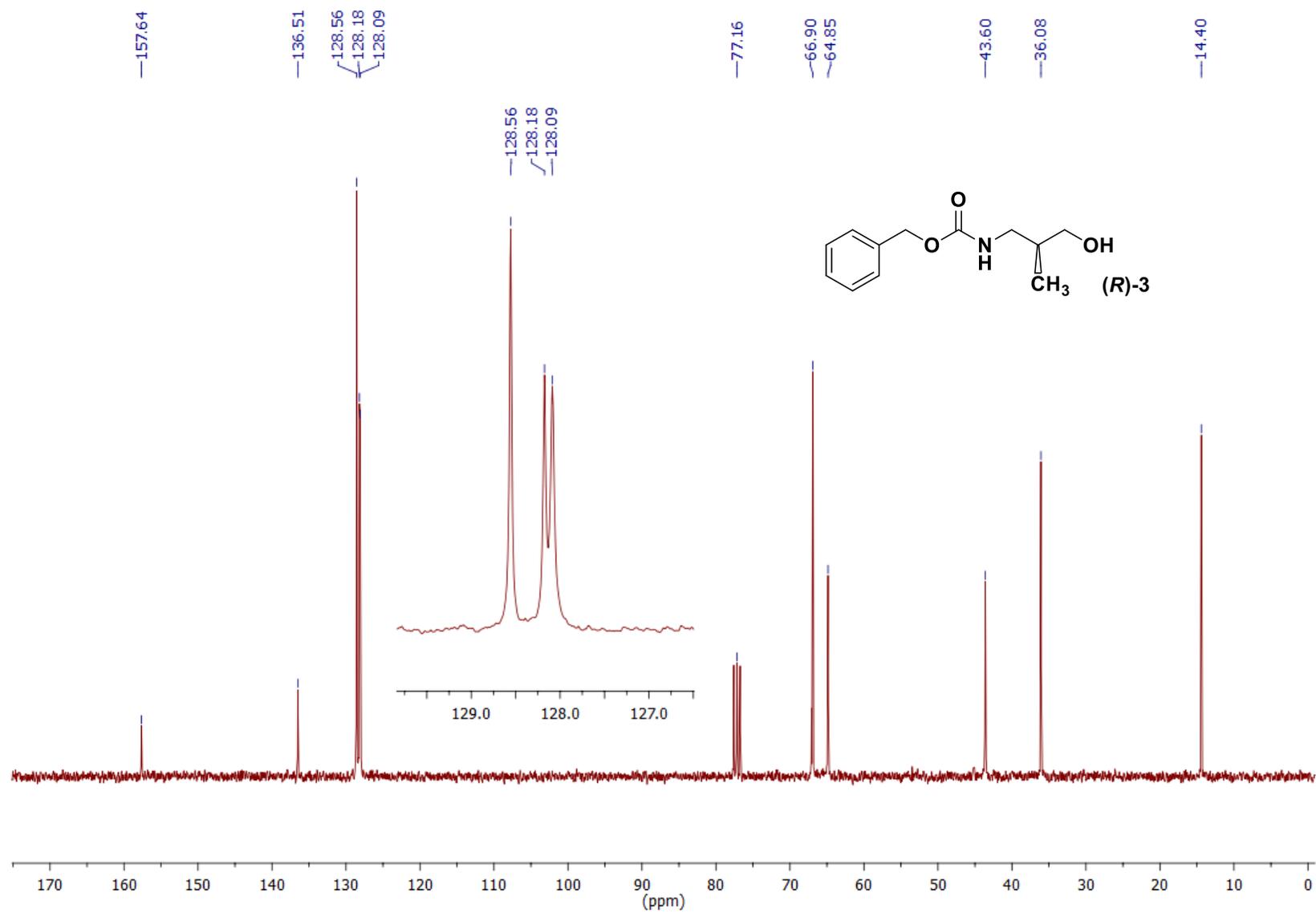


Figure S3. <sup>13</sup>C-NMR spectrum of (R)-3

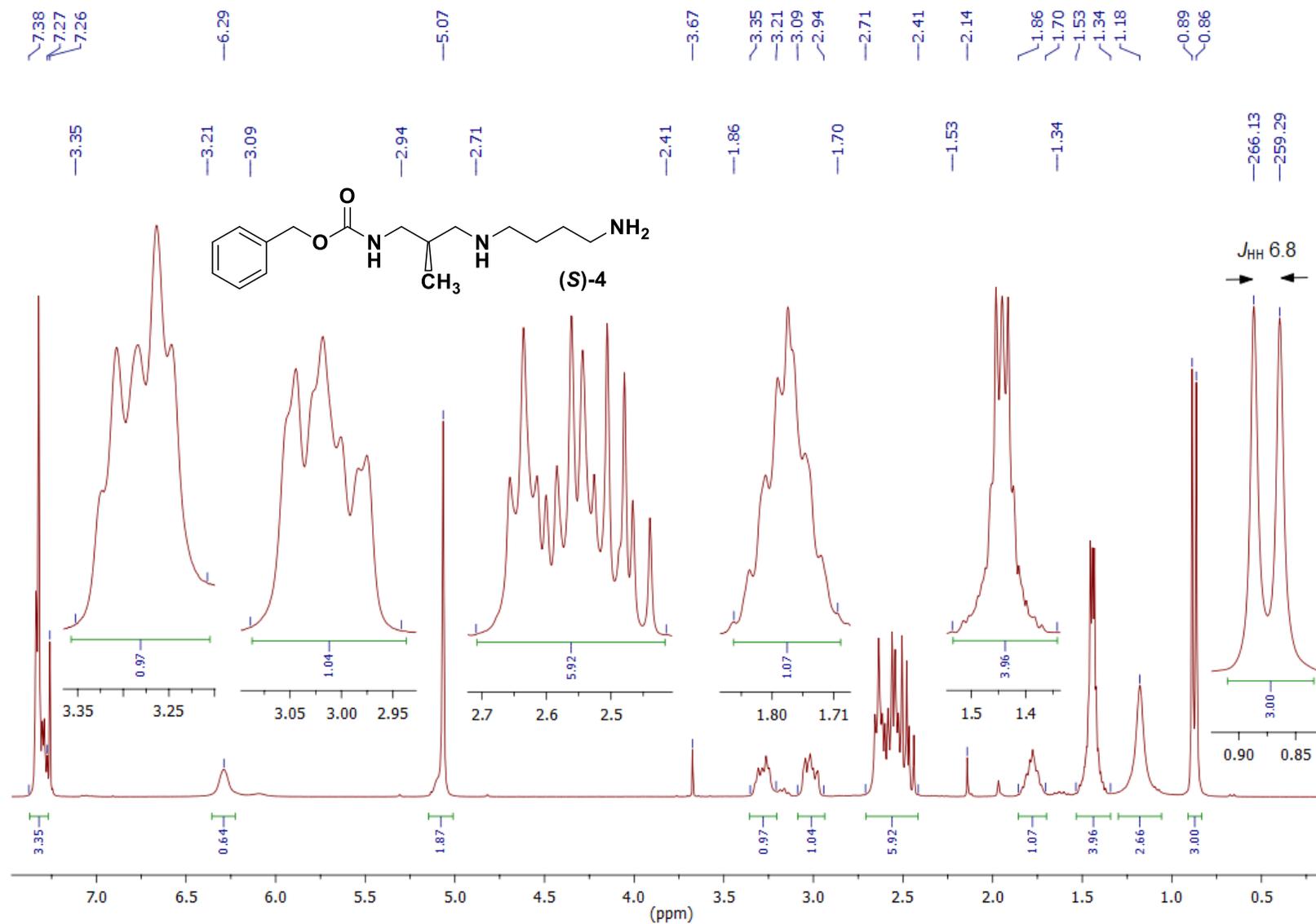


Figure S4. <sup>1</sup>H-NMR spectrum of (S)-4

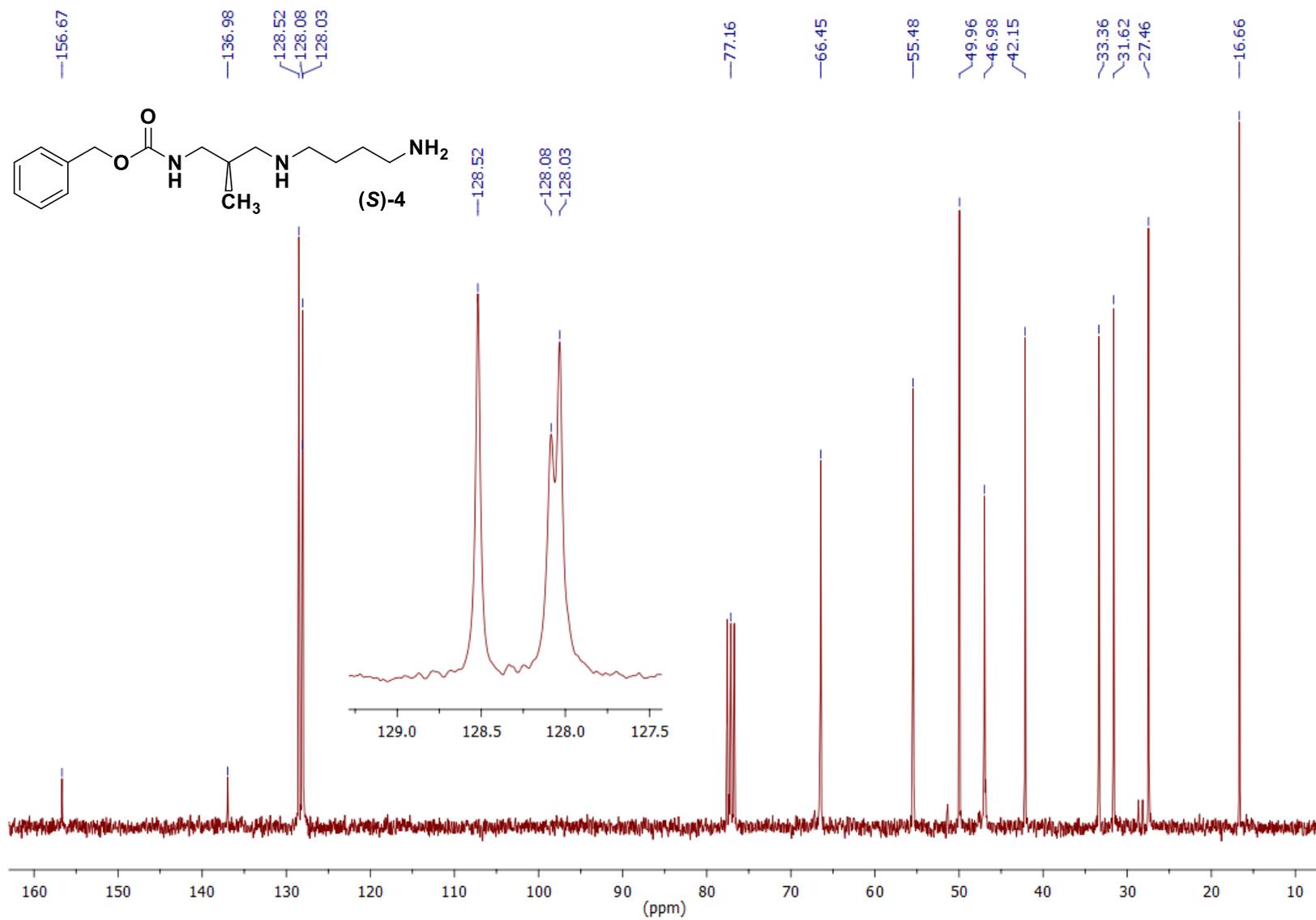


Figure S5. <sup>13</sup>C-NMR spectrum of (S)-4

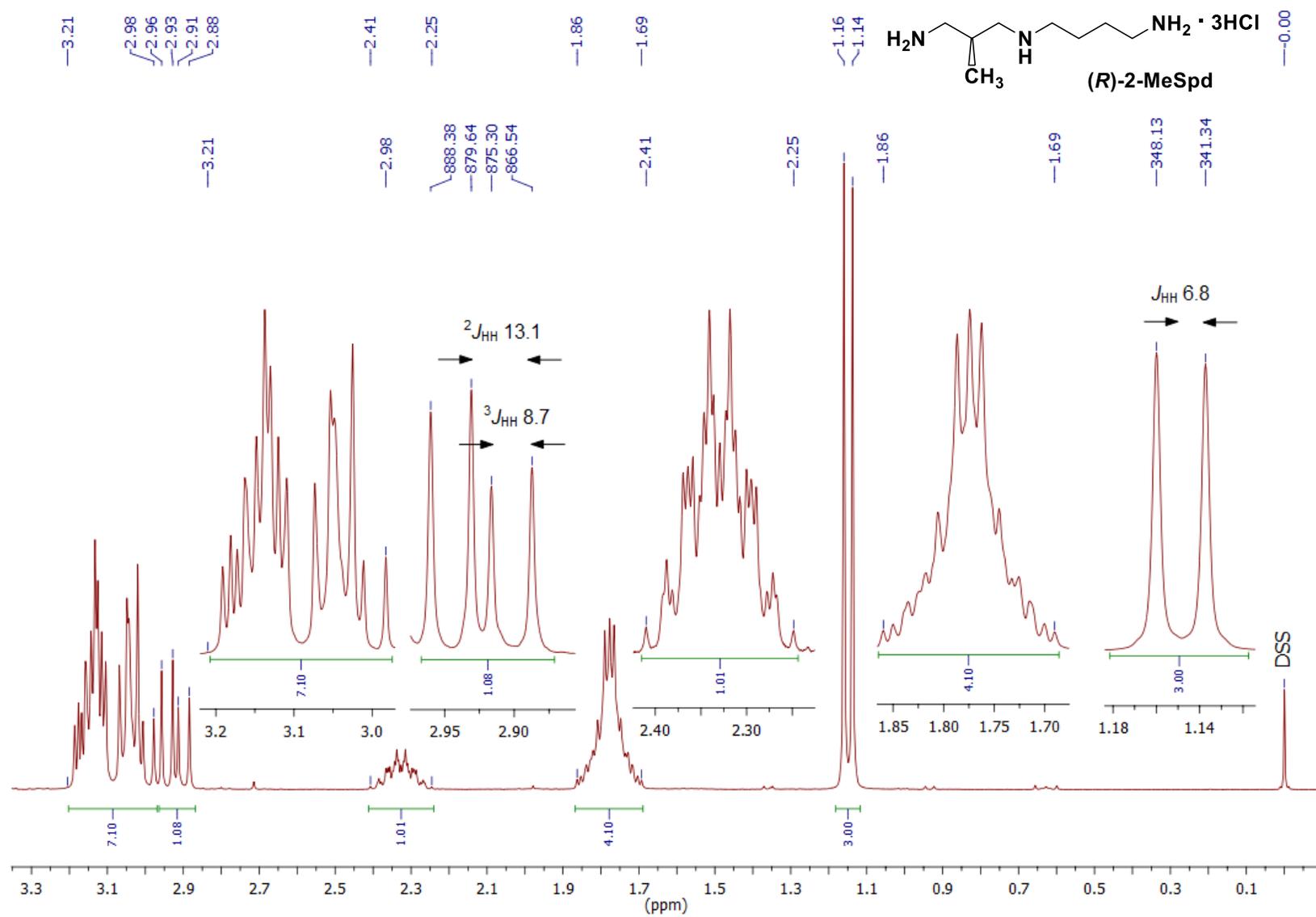
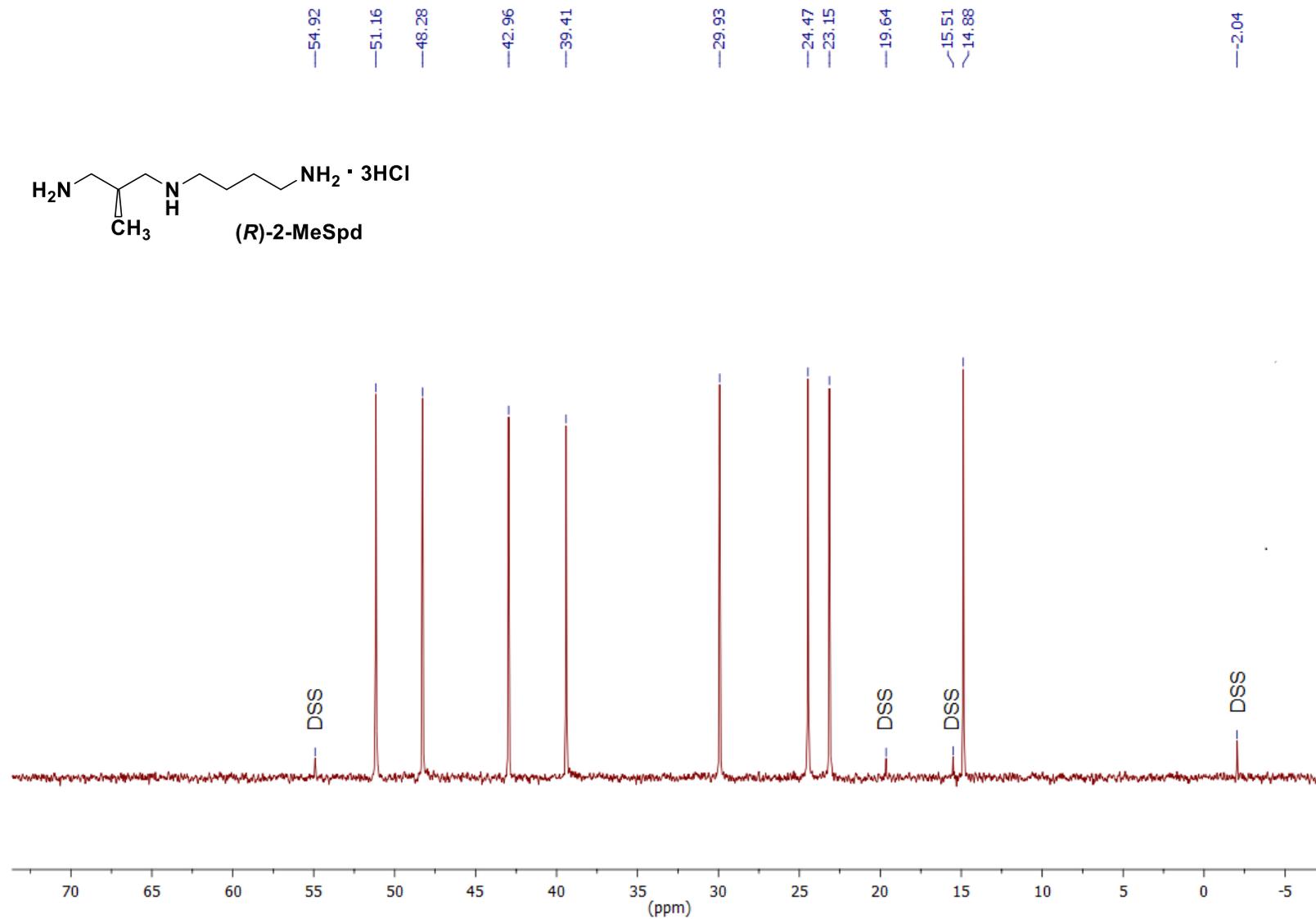


Figure S6. <sup>1</sup>H-NMR spectrum of *(R)*-2-MeSpd, *(R)*-1



**Figure S7.**  $^{13}\text{C}$ -NMR spectrum of (*R*)-2-MeSpd, (*R*)-1