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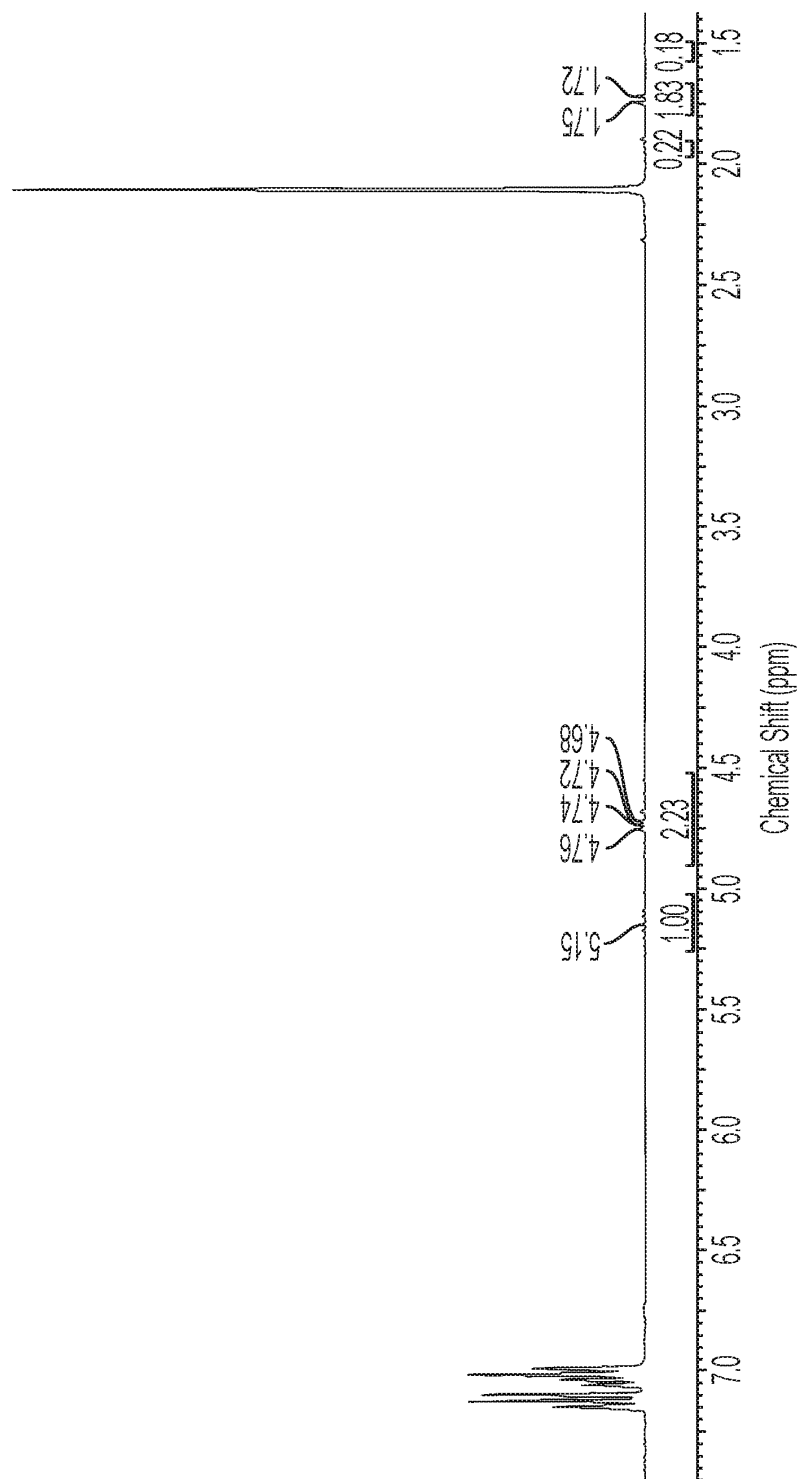


FIG. 1. ¹H NMR spectrum of a reaction mixture comprising (CH₂=CHCH₂)Sn(Cl)₃ in toluene (300 MHz, C₆D₆).

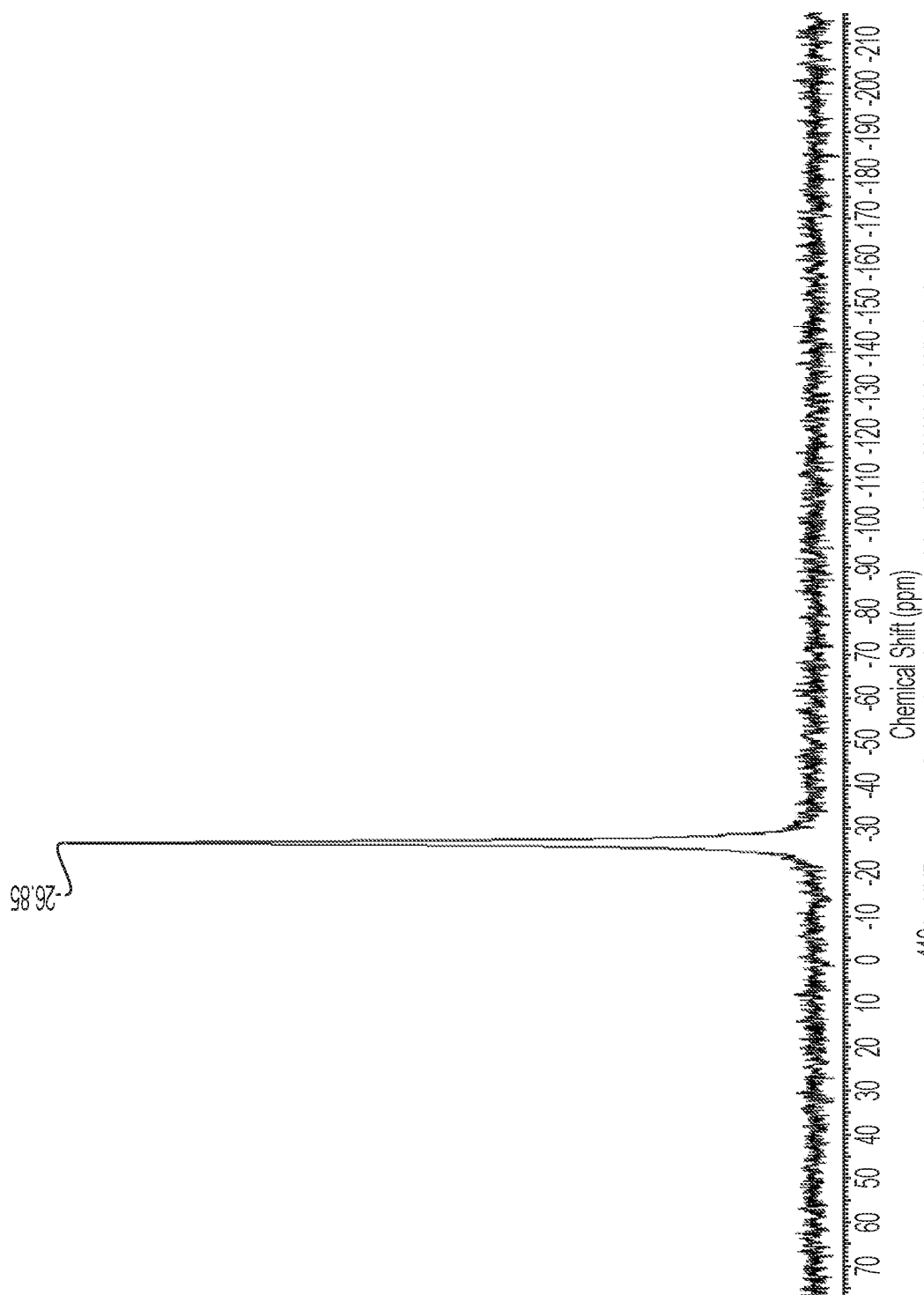


FIG. 2. ^{119}Sn NMR spectrum of a reaction mixture comprising $(\text{CH}_2=\text{CHCH}_2)\text{Sn}(\text{Cl})_3$ in toluene (186.55 MHz, C_6D_6).

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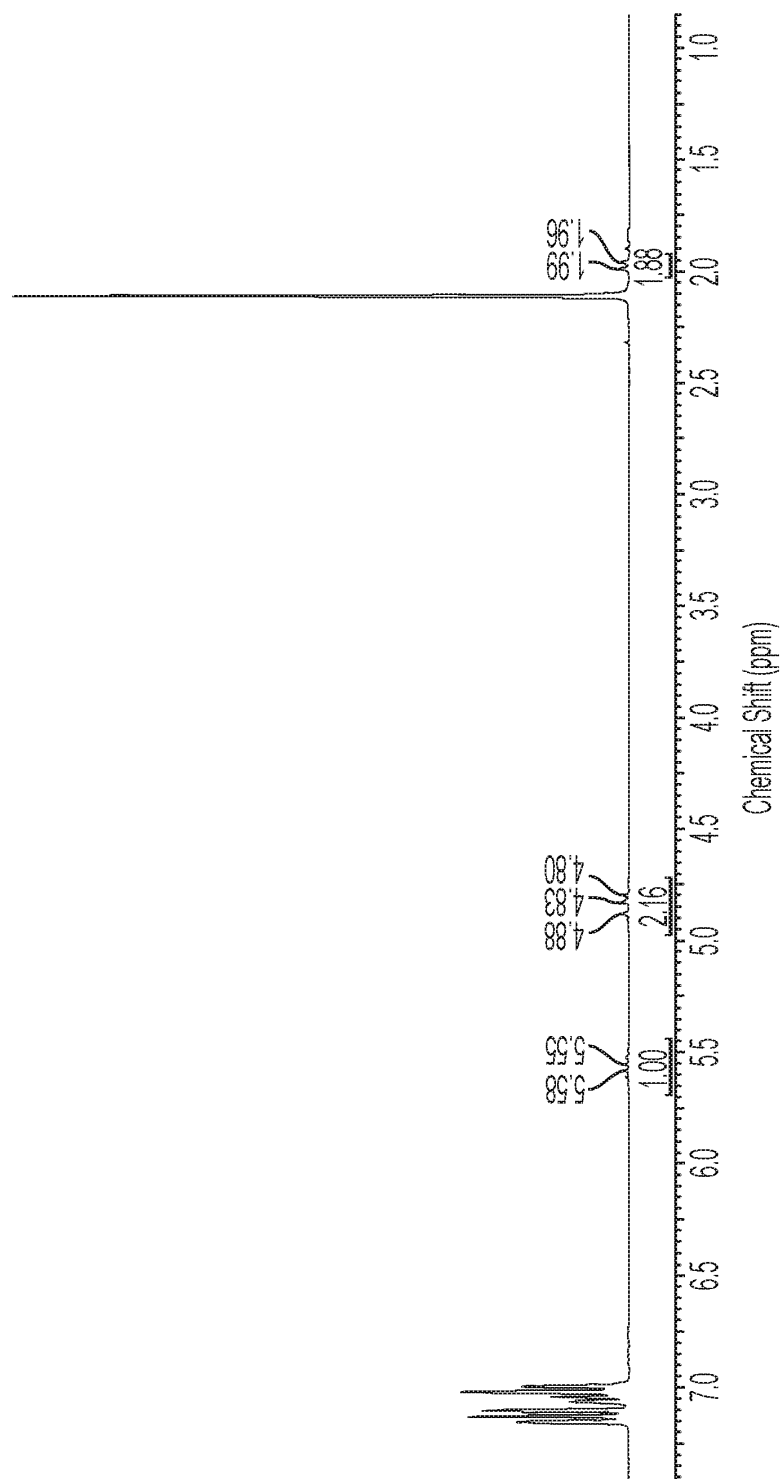


FIG. 3. ^1H NMR spectrum of a reaction mixture comprising $(\text{CH}_2=\text{CHCH}_2)_2\text{Sn}(\text{Cl})_2$ in toluene (300 MHz, C_6D_6).

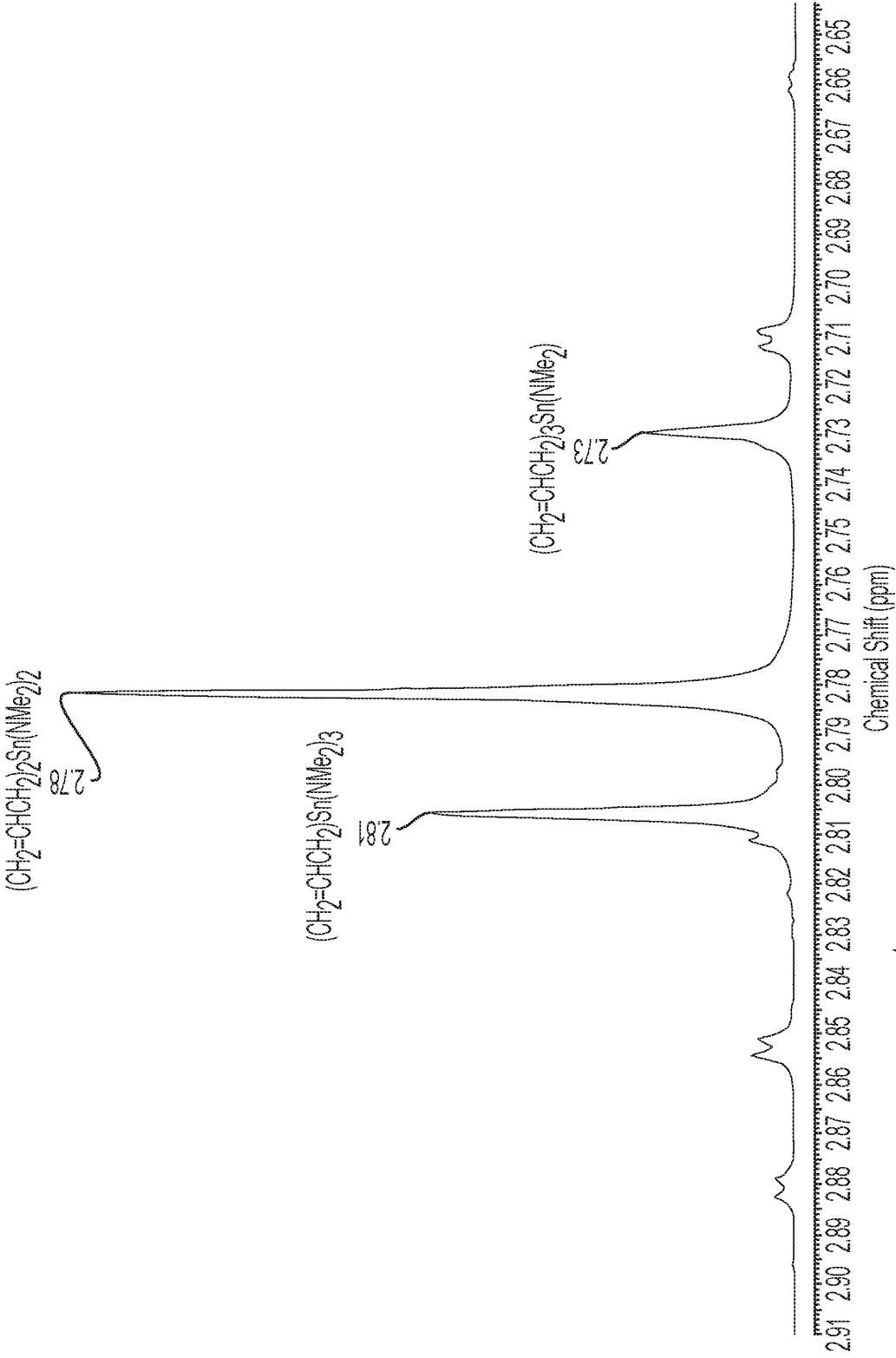


FIG. 4. ^1H NMR spectrum of an isolated product mixture comprising $(\text{CH}_2=\text{CHCH}_2)_3\text{Sn}(\text{NMe}_2)_3$, $(\text{CH}_2=\text{CHCH}_2)_2\text{Sn}(\text{NMe}_2)_2$, and $(\text{CH}_2=\text{CHCH}_2)_3\text{Sn}(\text{NMe}_2)$ after 12 hours at 22°C (300 MHz, C_6D_6).

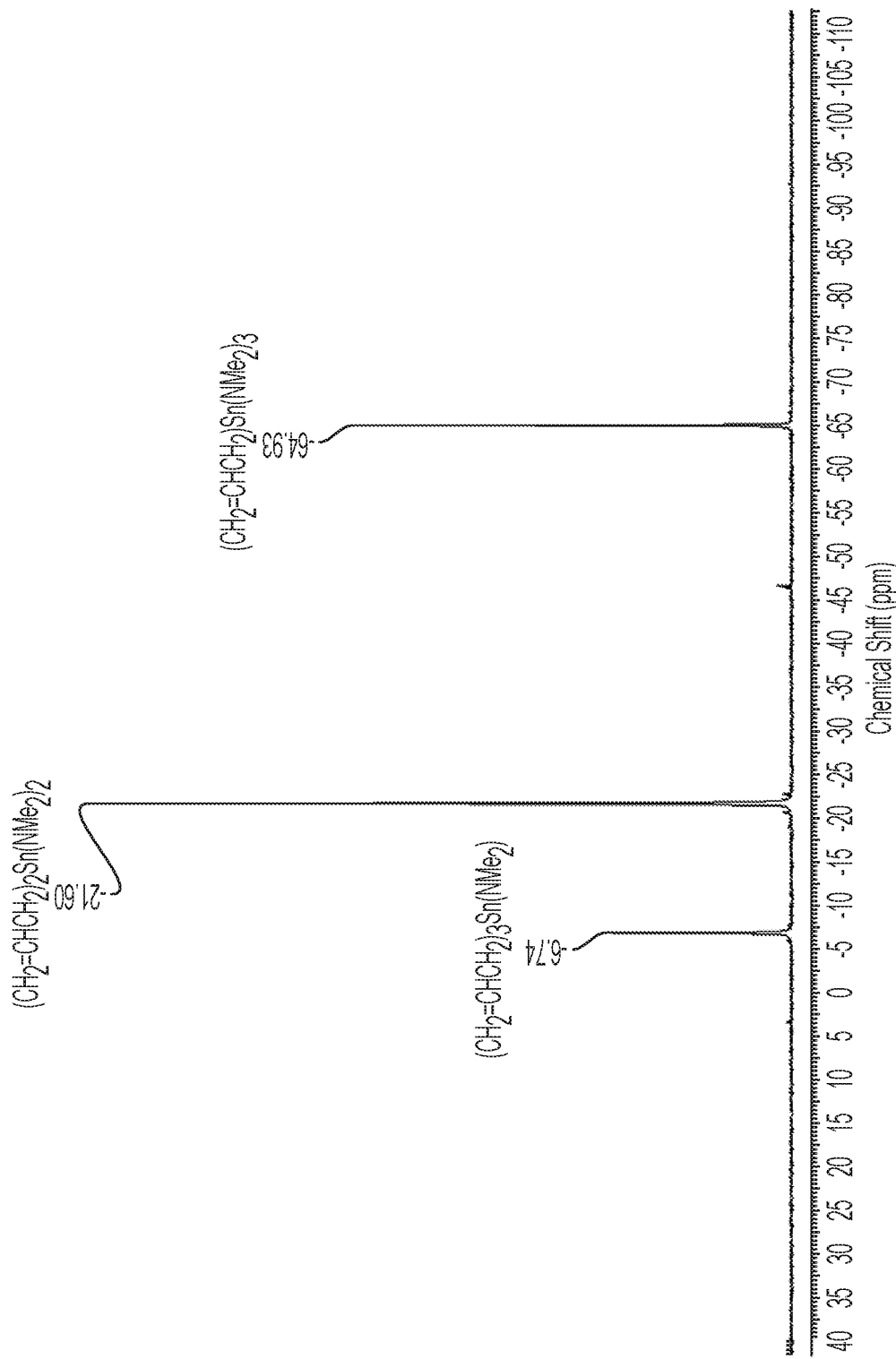


FIG. 5. ^{119}Sn NMR spectrum of an isolated product mixture comprising $(\text{CH}_2=\text{CHCH}_2)_3\text{Sn}(\text{NMe}_2)_3$, $(\text{CH}_2=\text{CHCH}_2)_2\text{Sn}(\text{NMe}_2)_2$, and $(\text{CH}_2=\text{CHCH}_2)_3\text{Sn}(\text{NMe}_2)$ after 12 hours at 22°C (187 MHz, C_6D_6).

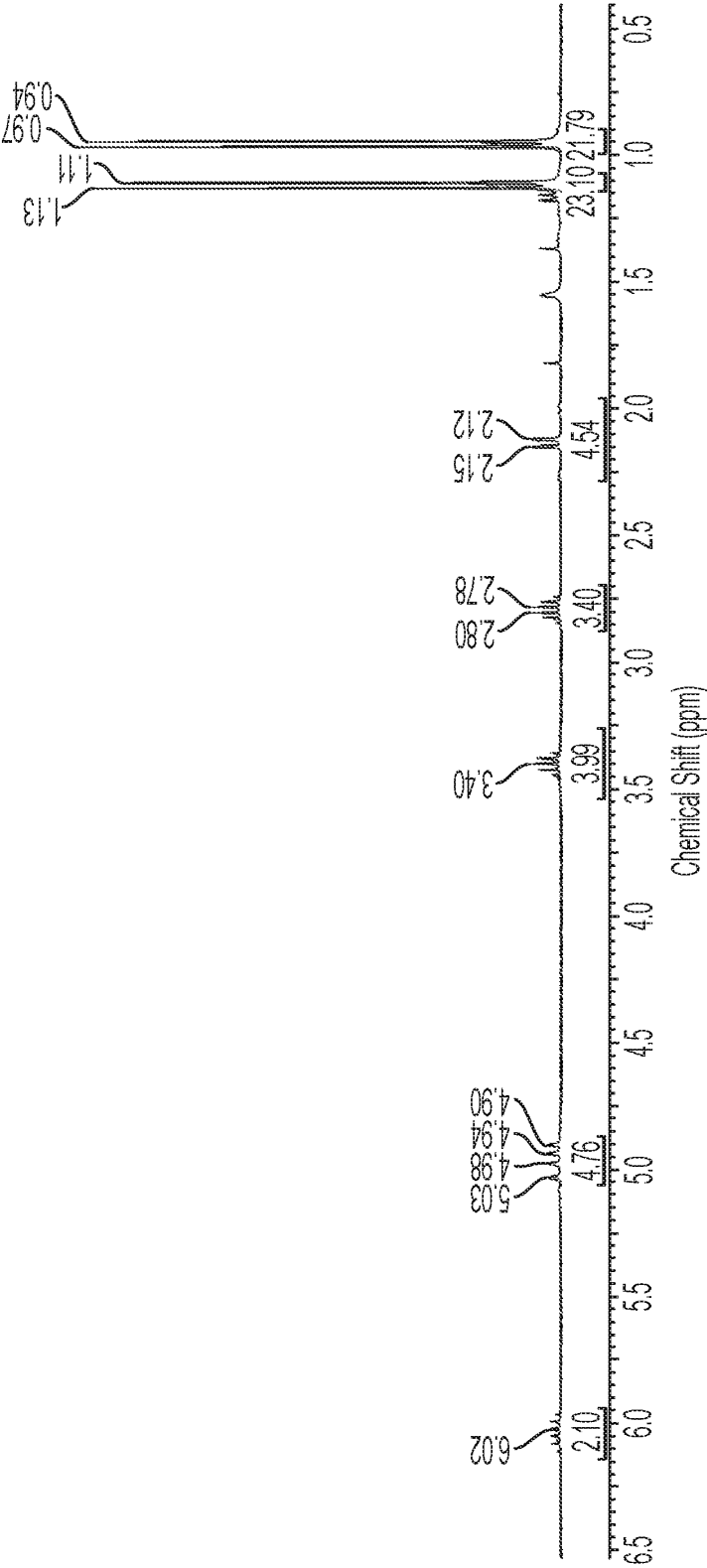


FIG. 6. ¹H NMR spectrum of a product mixture comprising (CH₂=CHCH₂)₂Sn(NiPr₂)₂ and HNIPr₂ (300 MHz, C₆D₆).

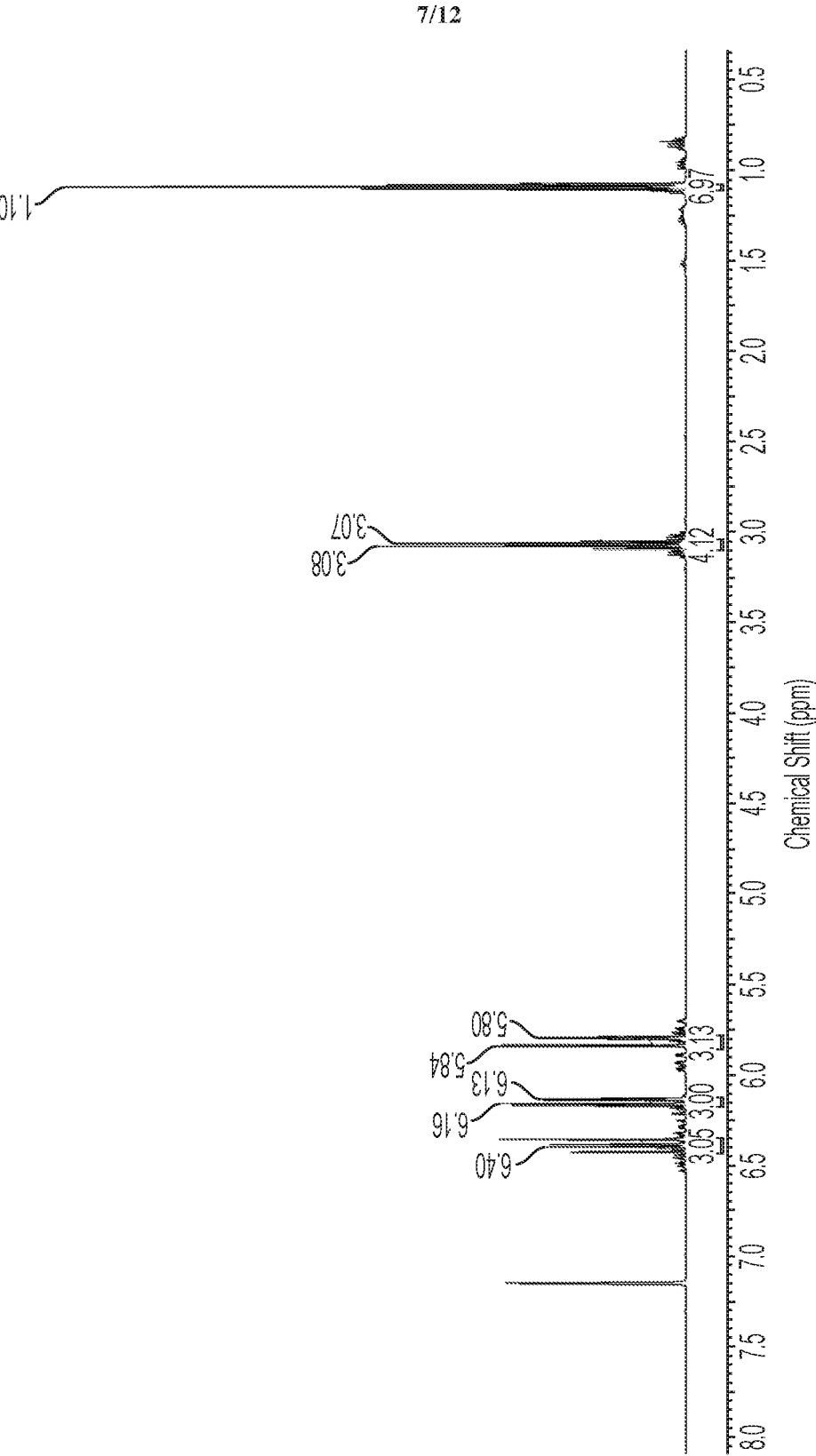


FIG. 7. ^1H NMR spectrum of $(\text{CH}_2=\text{CH})_3\text{Sn}(\text{NEt}_2)$ (500 MHz C_6D_6).

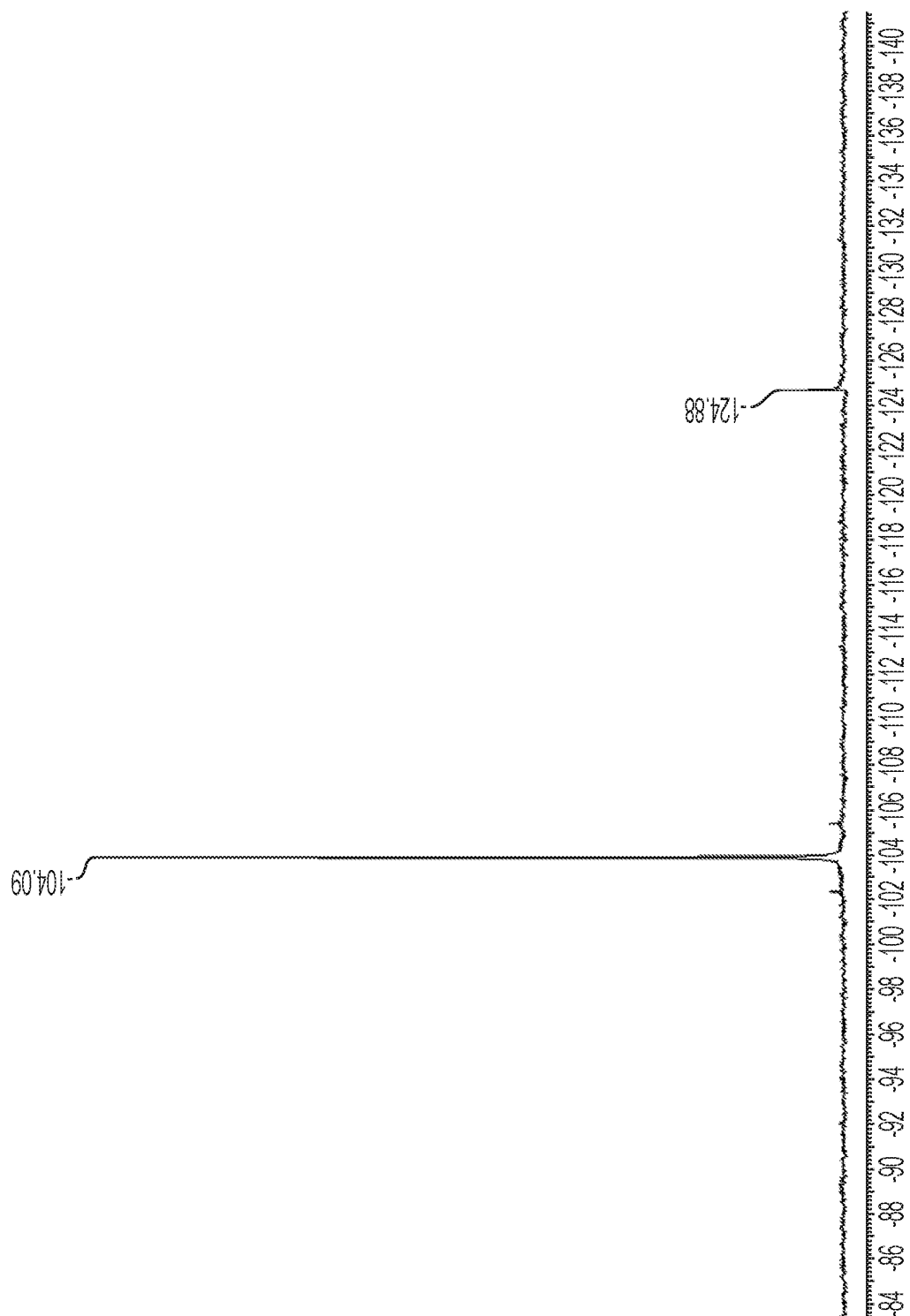
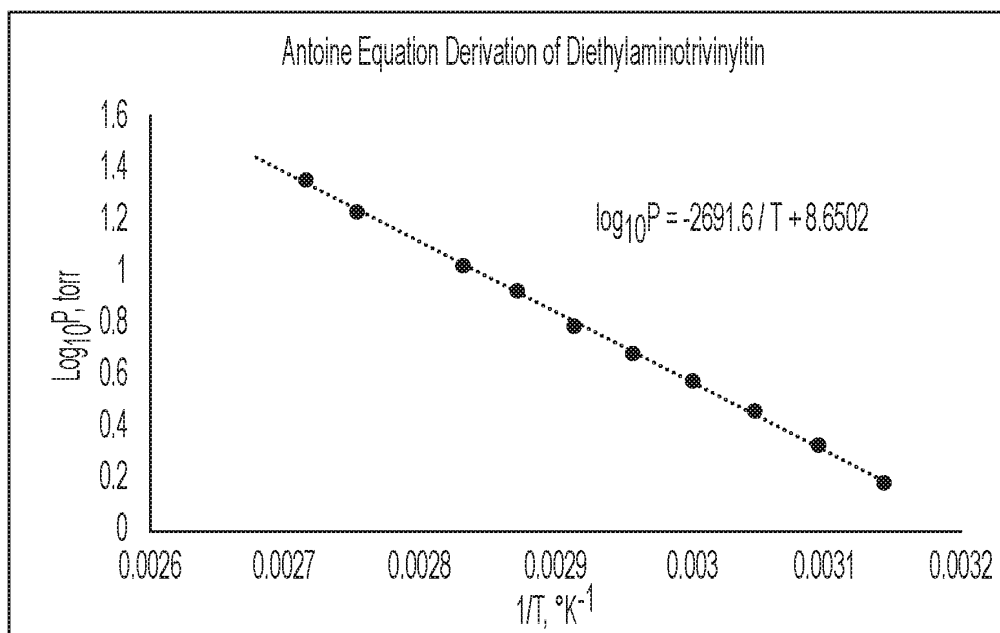


FIG. 8. ^1H NMR spectrum of $(\text{CH}_2=\text{CH})_3\text{Sn}(\text{NEt}_2)$ (186 MHz C_6D_6).

FIG. 9. Vapor pressure curve of $(CH_2=CH)_3Sn(NEt_2)$.

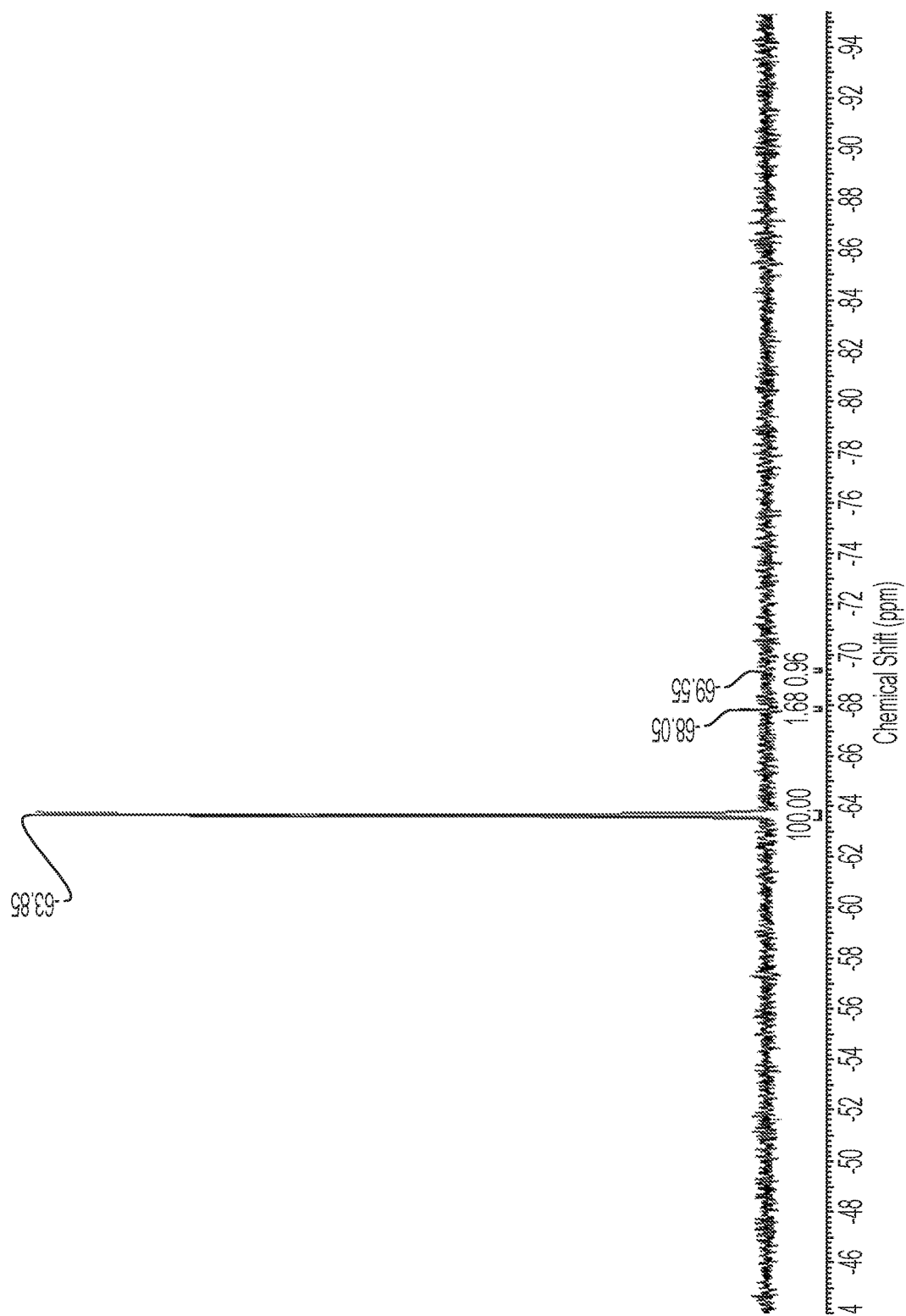


FIG. 10. ^{119}Sn NMR spectrum of $\text{Cp}^*\text{Sn}(\text{NMe}_2)_3$ (186 MHz, C_6D_6).

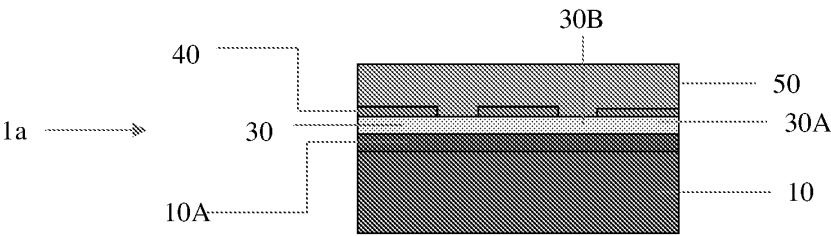


FIG. 11A

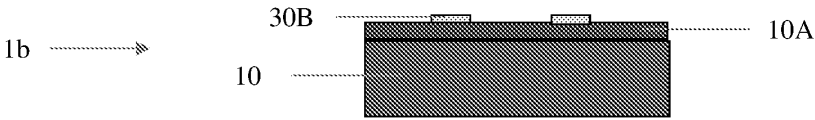


FIG. 11B

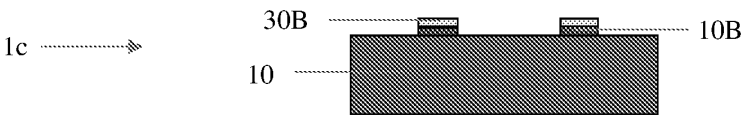


FIG. 11C

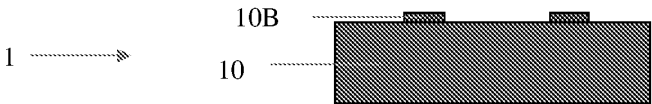


FIG. 11D

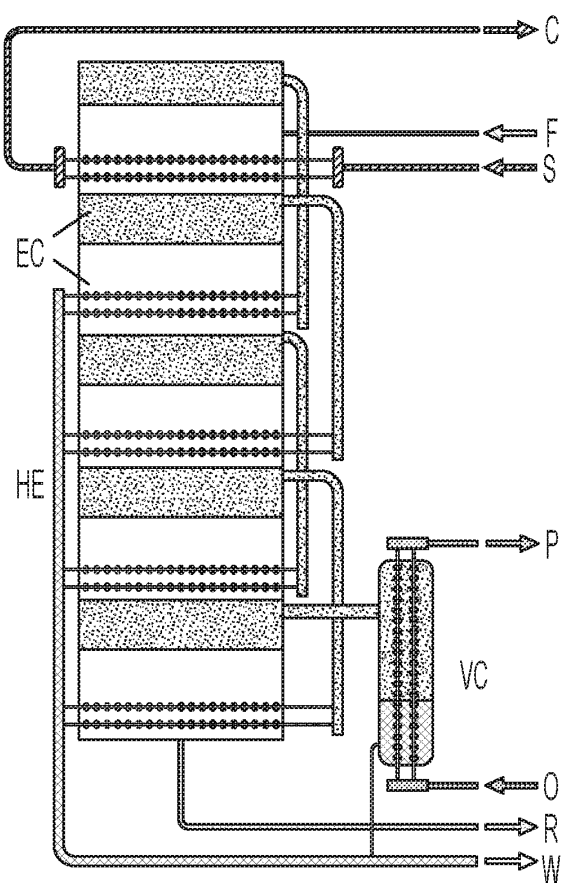


FIG. 12. Schematic of multistage vacuum distillation apparatus.