

Supplementary Materials: Reaction of Dialumane Incorporating Bulky Eind Groups with Pyridines

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NMR Spectra of 2, 3, 4, 5-*d*₆, and 1-*d*₄

Py → AlH₂(Eind) (2): Figures S1 and S2;

Py → AlH(1,4-dihydropyrid-1-yl)(Eind) (3): Figures S3 and S4;

PPy → AlH₂(Eind) (4): Figures S5 and S6;

[Li(OEt₂)₂](Eind)AID₃ (5-*d*₆): Figures S7–S10;

(Eind)DAI(*m*-D)2AID(Eind) (1-*d*₄): Figures S11–S14.

¹H NMR Spectra of the Reaction Mixture of 1-*d*₄ and Py in C₆H₆ at 20 °C

After 22 h: Figure S15;

After 5 days: Figure S16;

After 11 days: Figure S17;

And after 27 days: Figure S18.

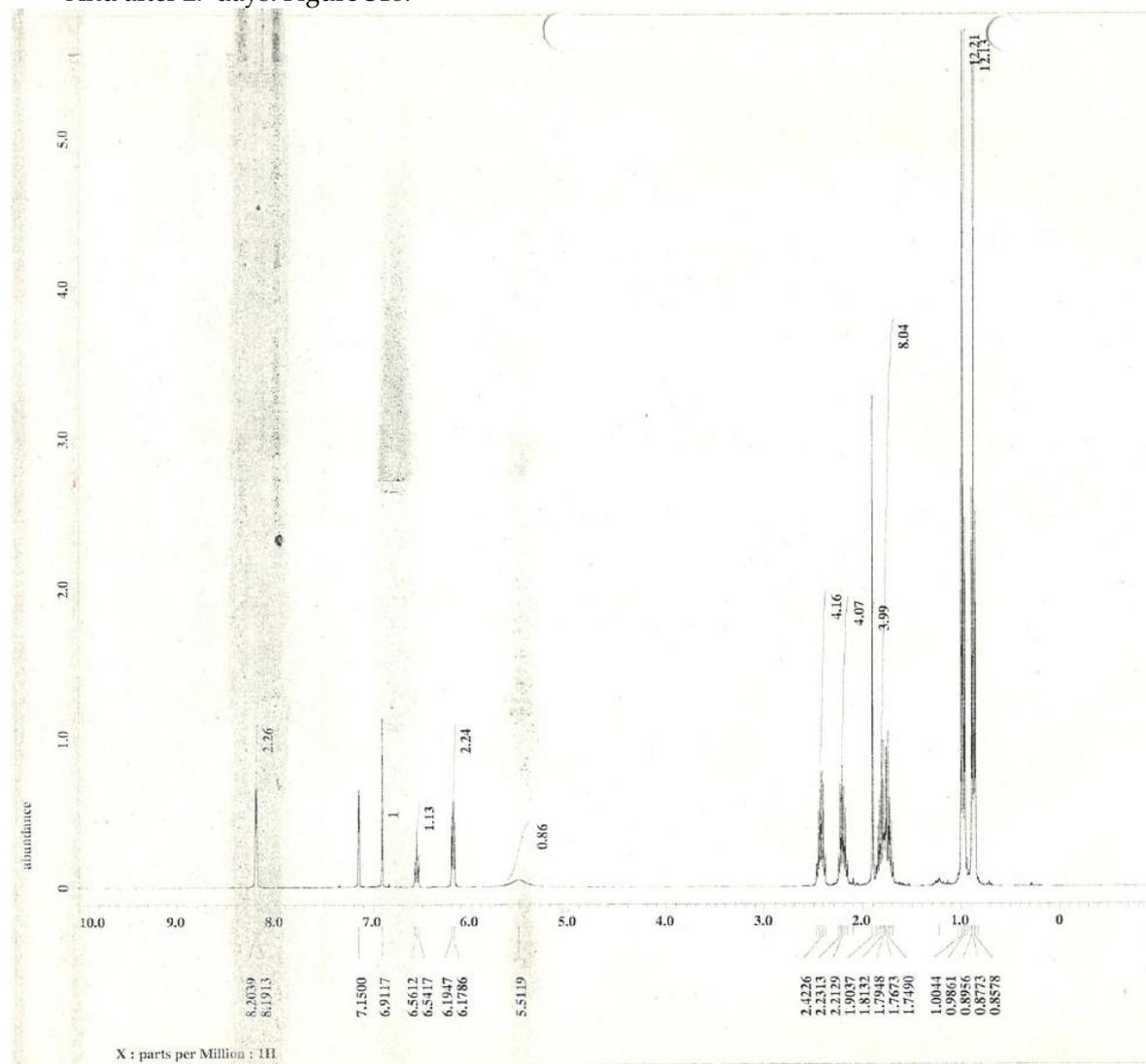


Figure S1. ¹H NMR spectrum of 2 in C₆D₆ at 20 °C.

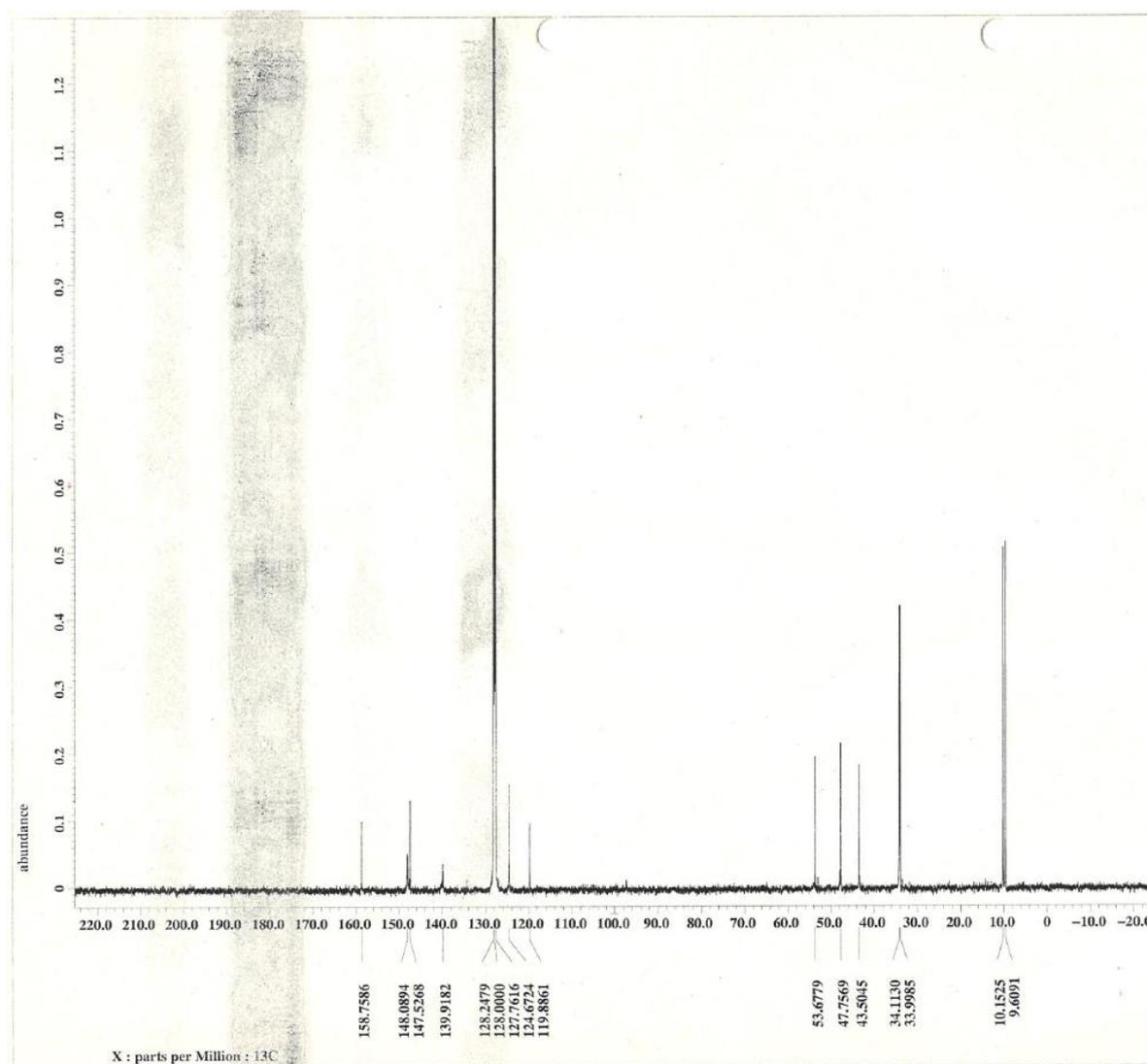


Figure S2. ^{13}C NMR spectrum of 2 in C_6D_6 at 20 °C.

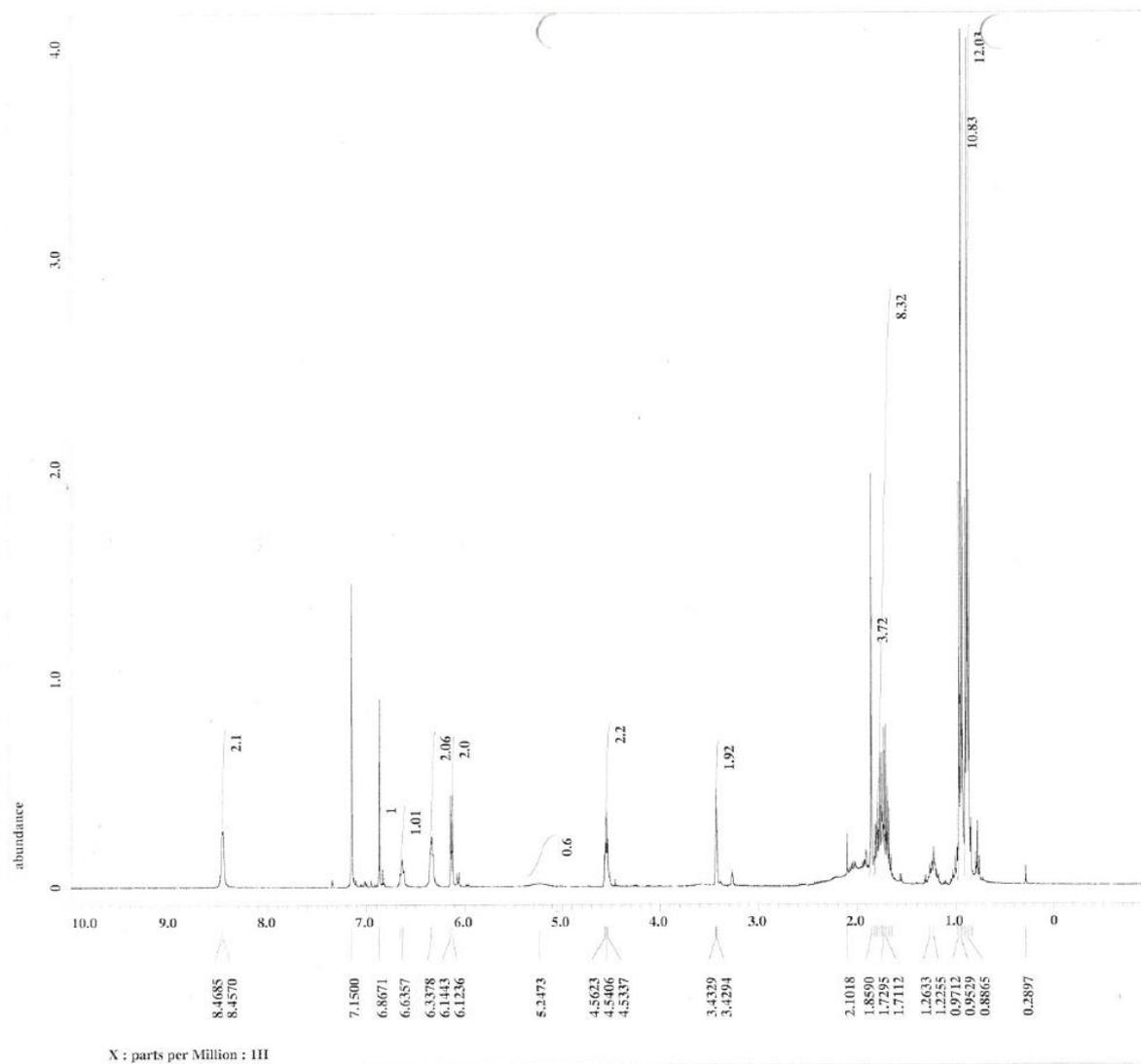


Figure S3. ^1H NMR spectrum of **3** in C_6D_6 at $20\text{ }^\circ\text{C}$.

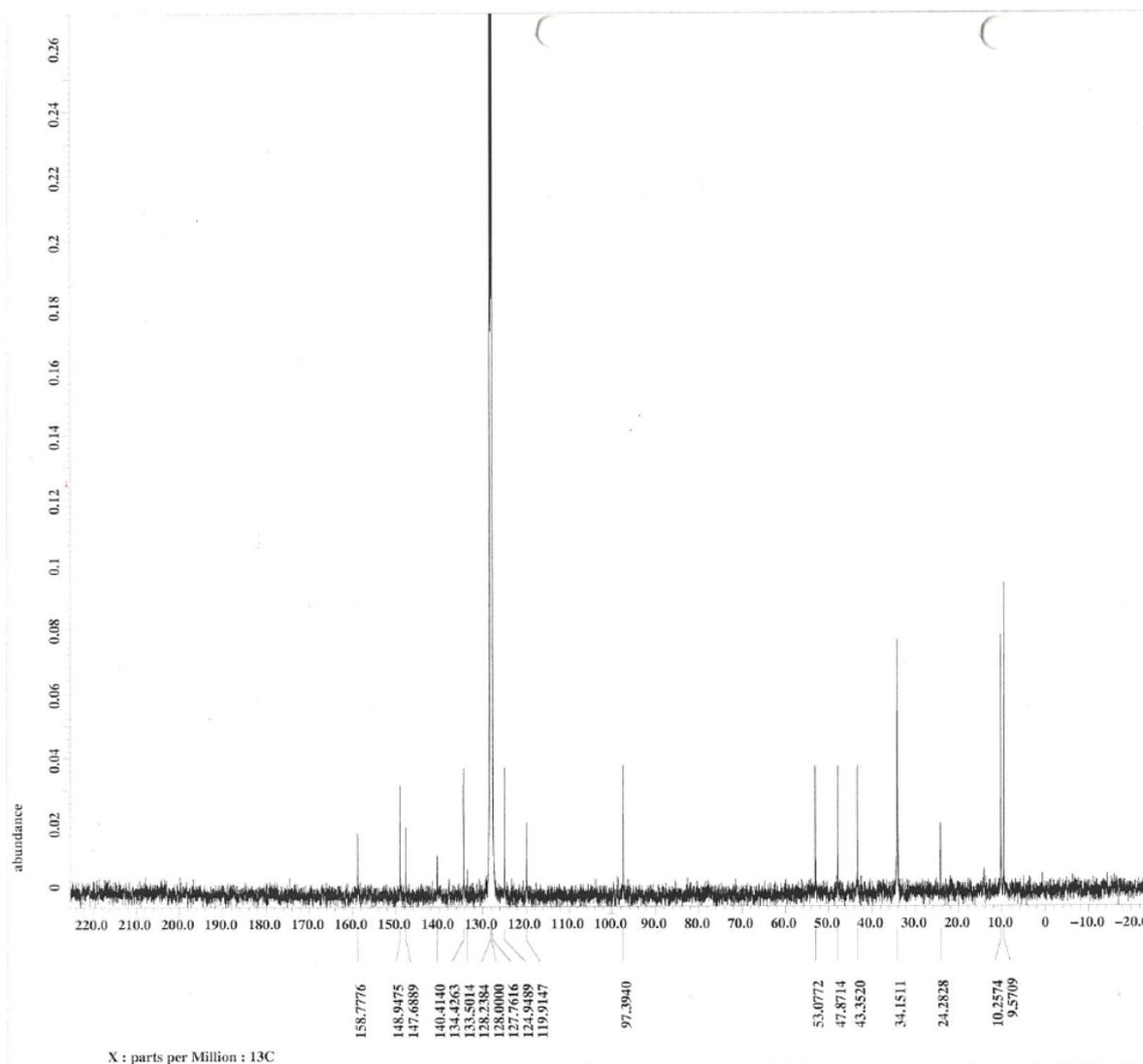


Figure S4. ^{13}C NMR spectrum of **3** in C_6D_6 at 20 °C.

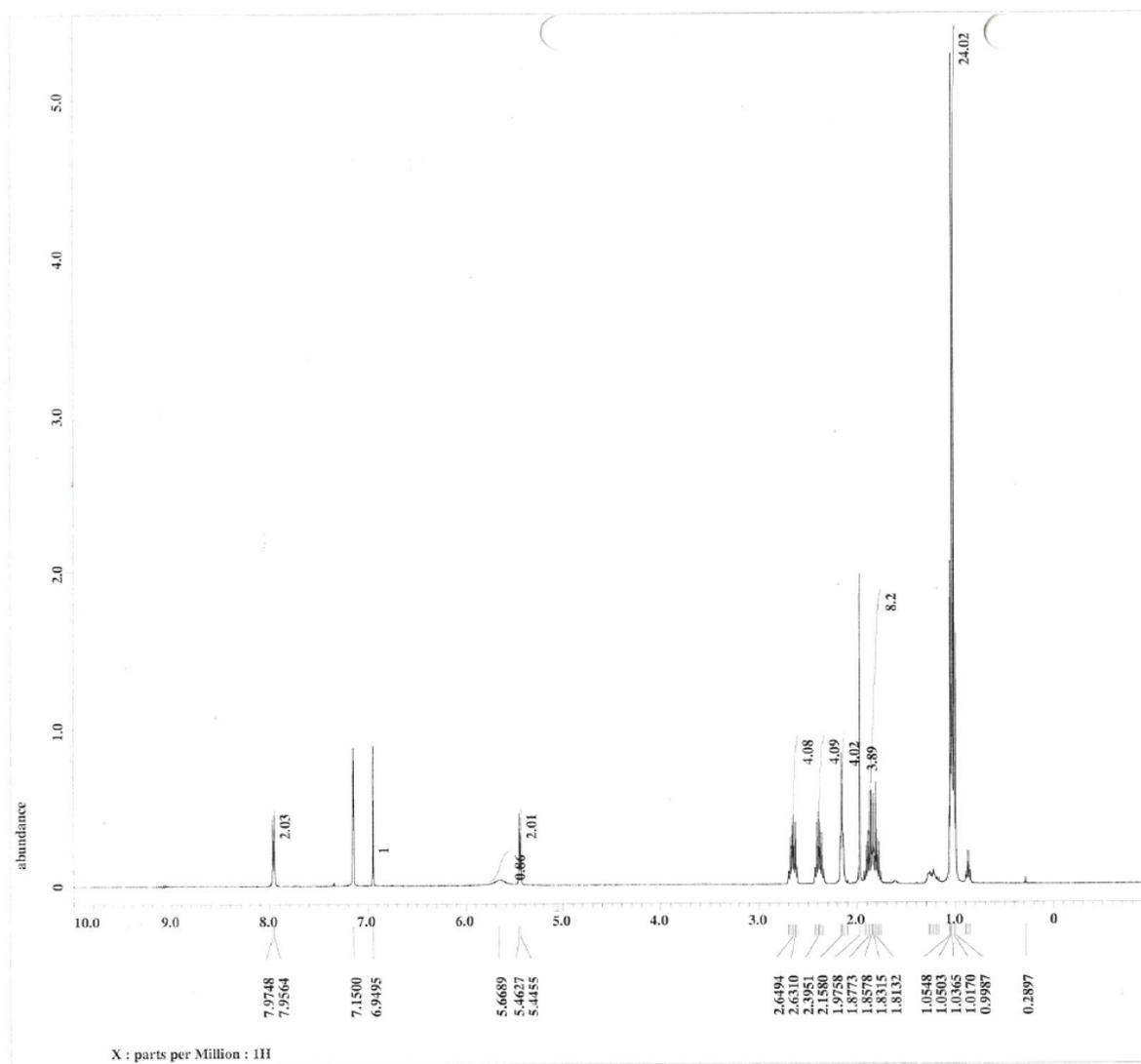


Figure S5. ^1H NMR spectrum of 4 in C_6D_6 at 20°C .

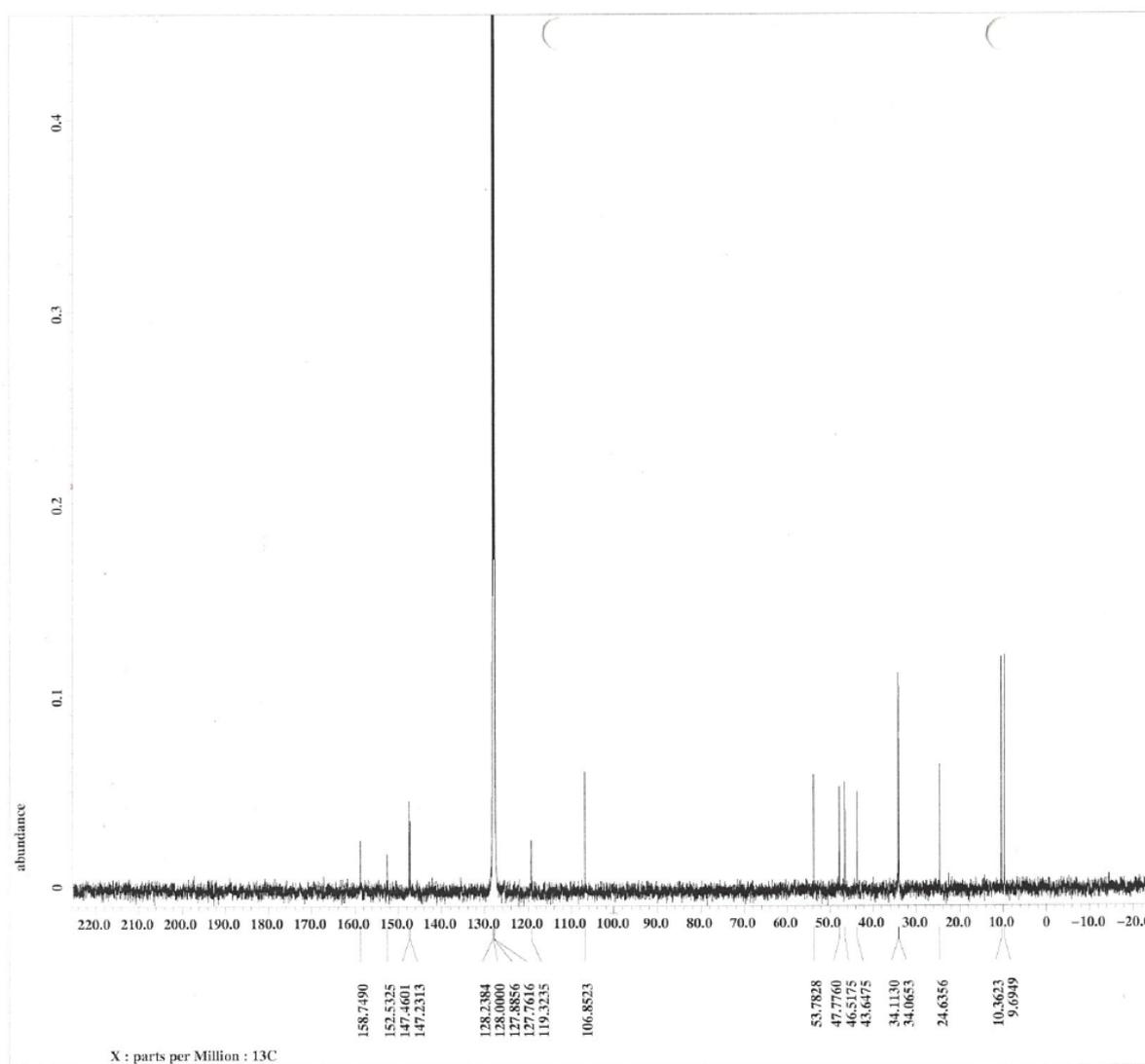


Figure S6. ^{13}C NMR spectrum of 4 in C_6D_6 at 20 °C.

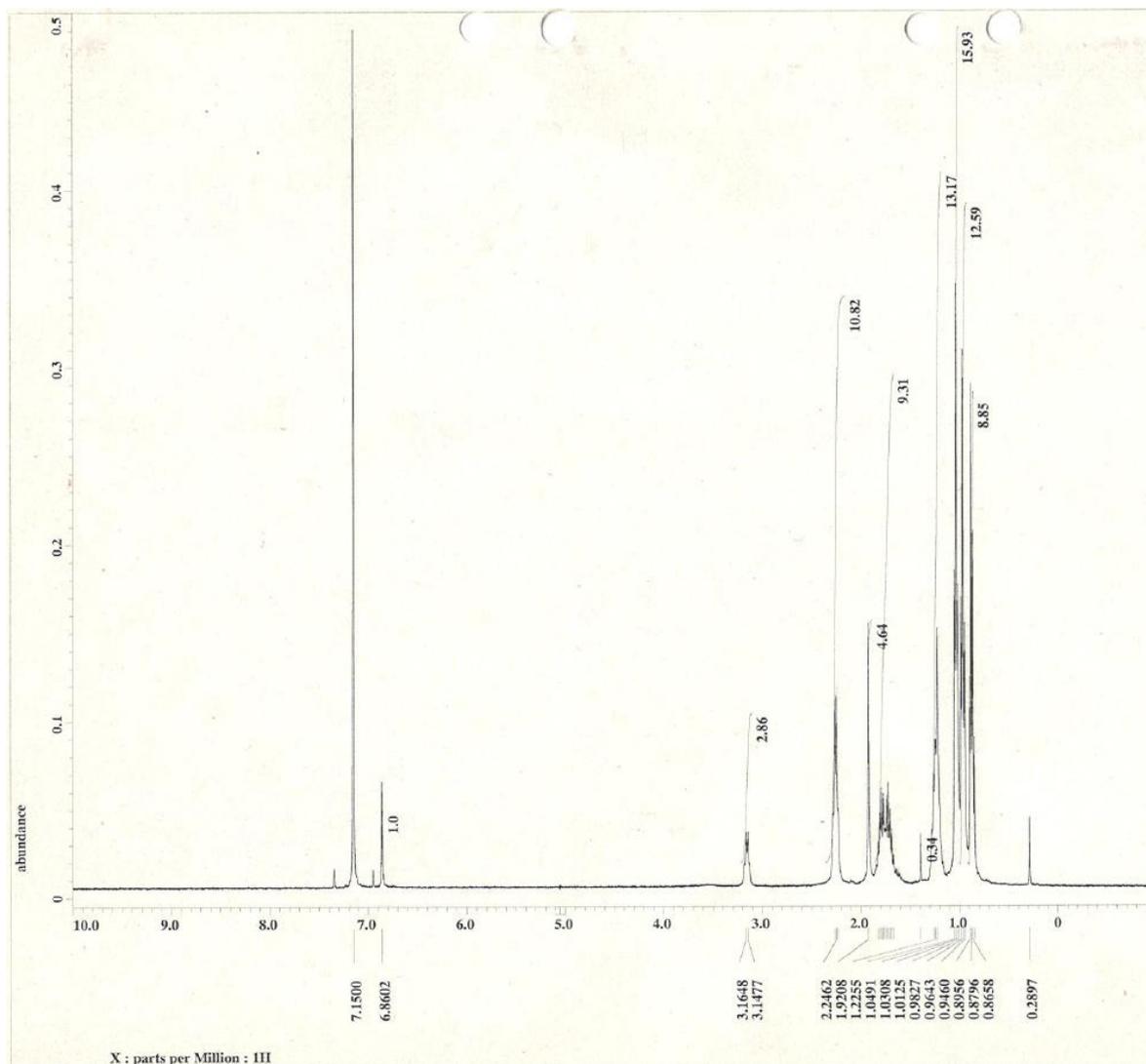


Figure S7. ¹H NMR spectrum of 5-d₆ in C₆D₆ at 20 °C.

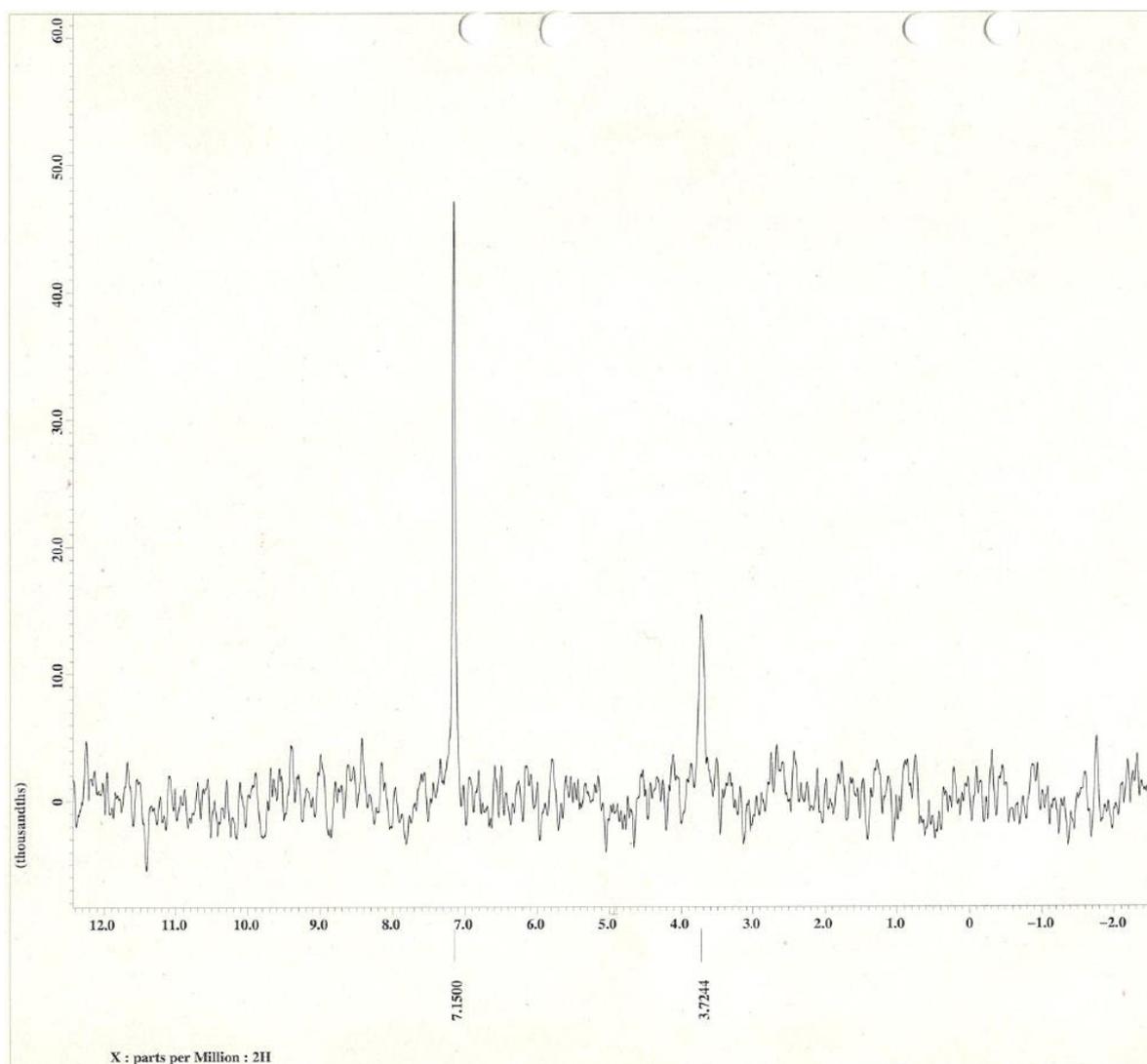


Figure S8. ^2H NMR spectrum of $5\text{-}d_6$ in C_6H_6 at $20\text{ }^\circ\text{C}$.

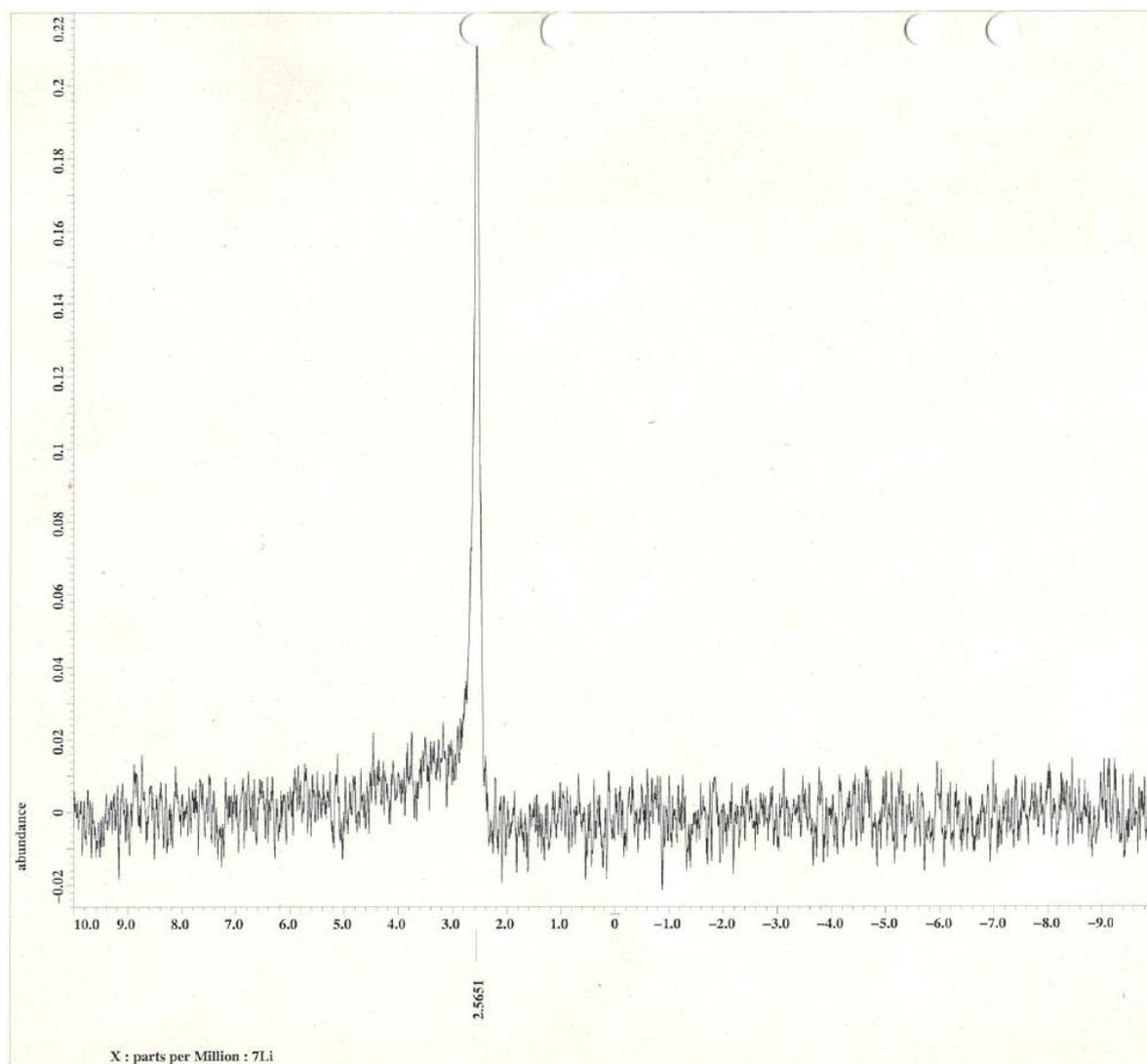


Figure S9. ${}^7\text{Li}$ NMR spectrum of 5- d_6 in C_6D_6 at 20 °C.

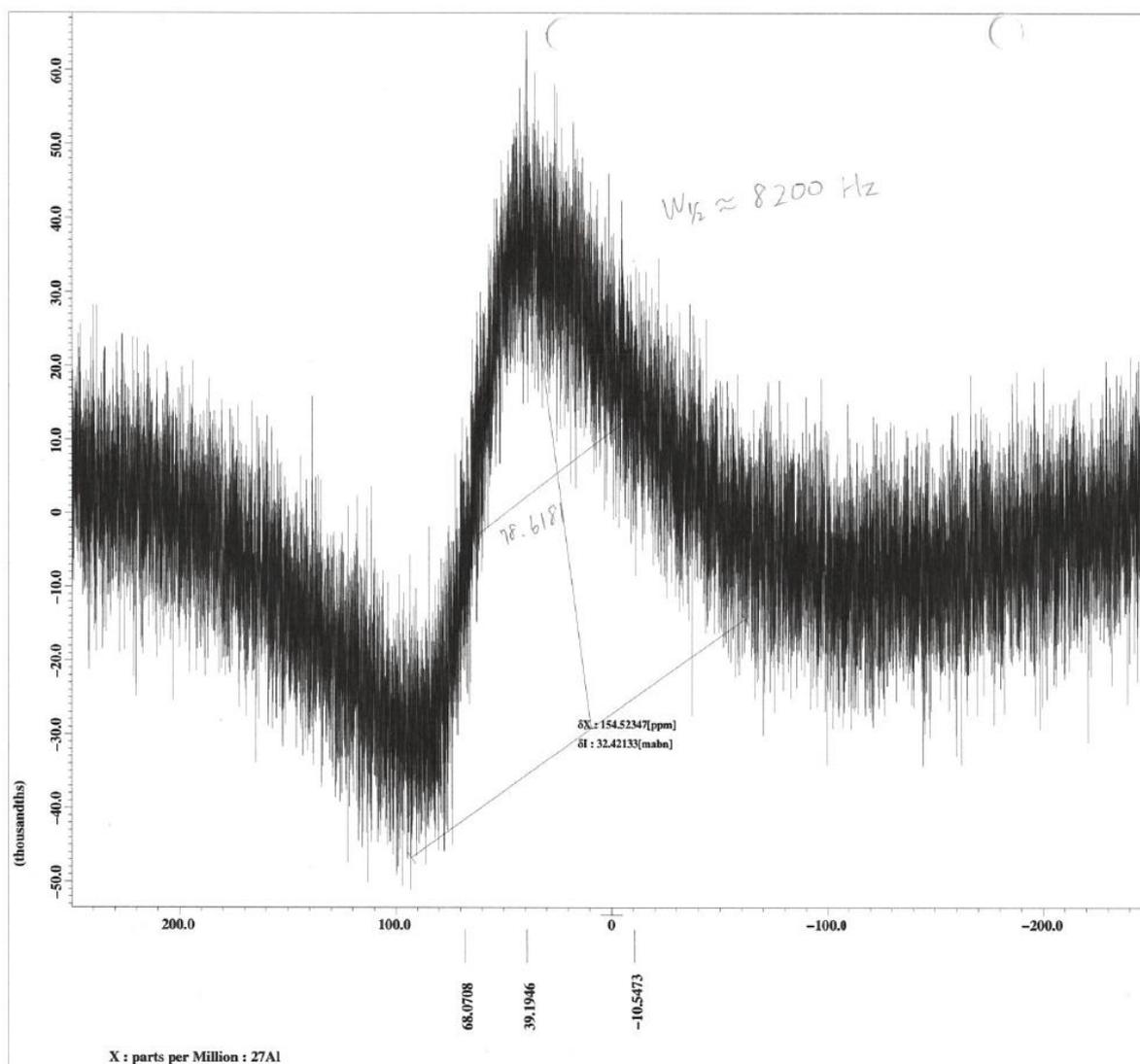


Figure S10. ^{27}Al NMR spectrum of 5-d_6 in C_6D_6 at 20°C .

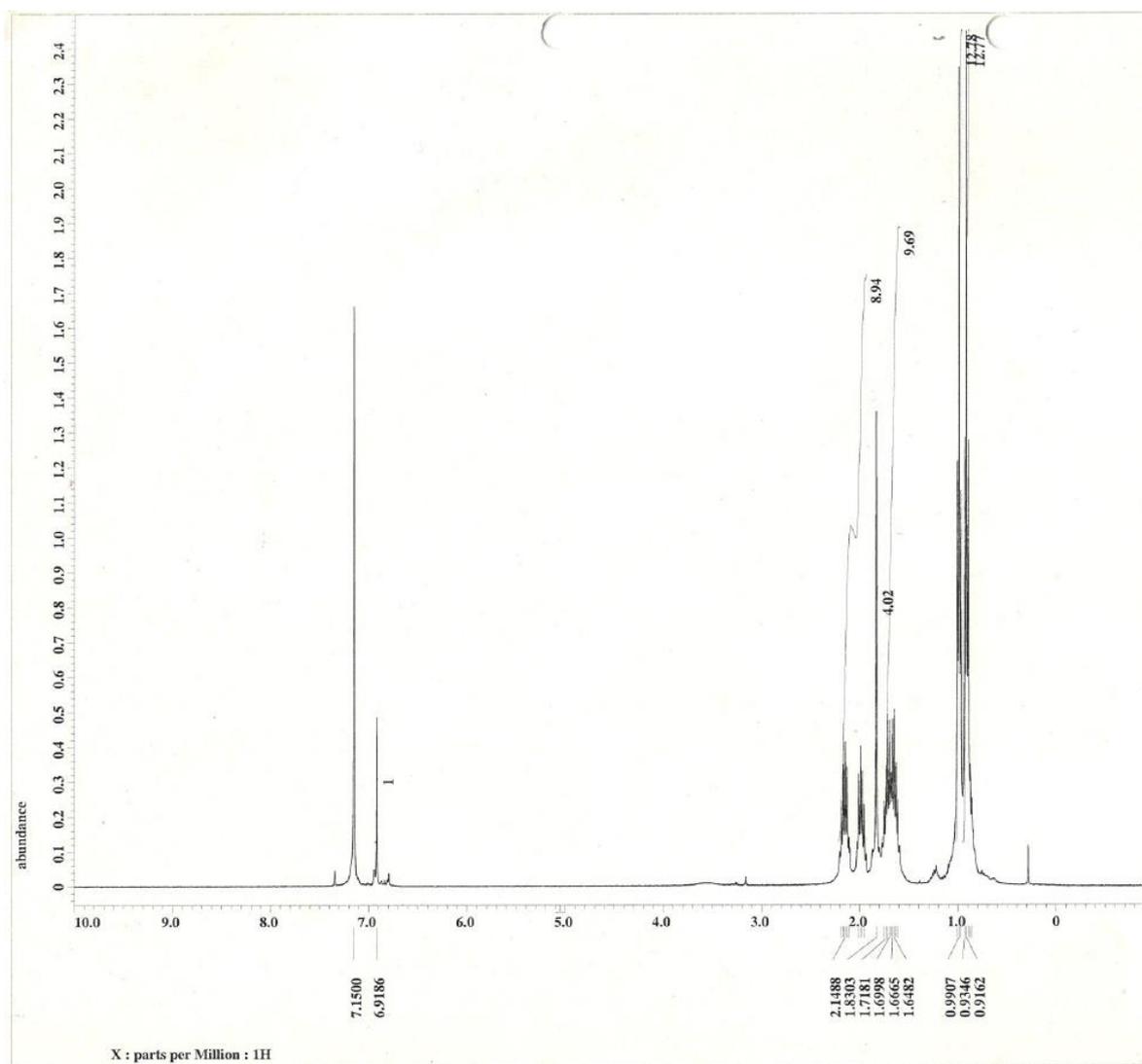


Figure S11. ^1H NMR spectrum of $1-d_4$ in C_6D_6 at $20\text{ }^\circ\text{C}$.

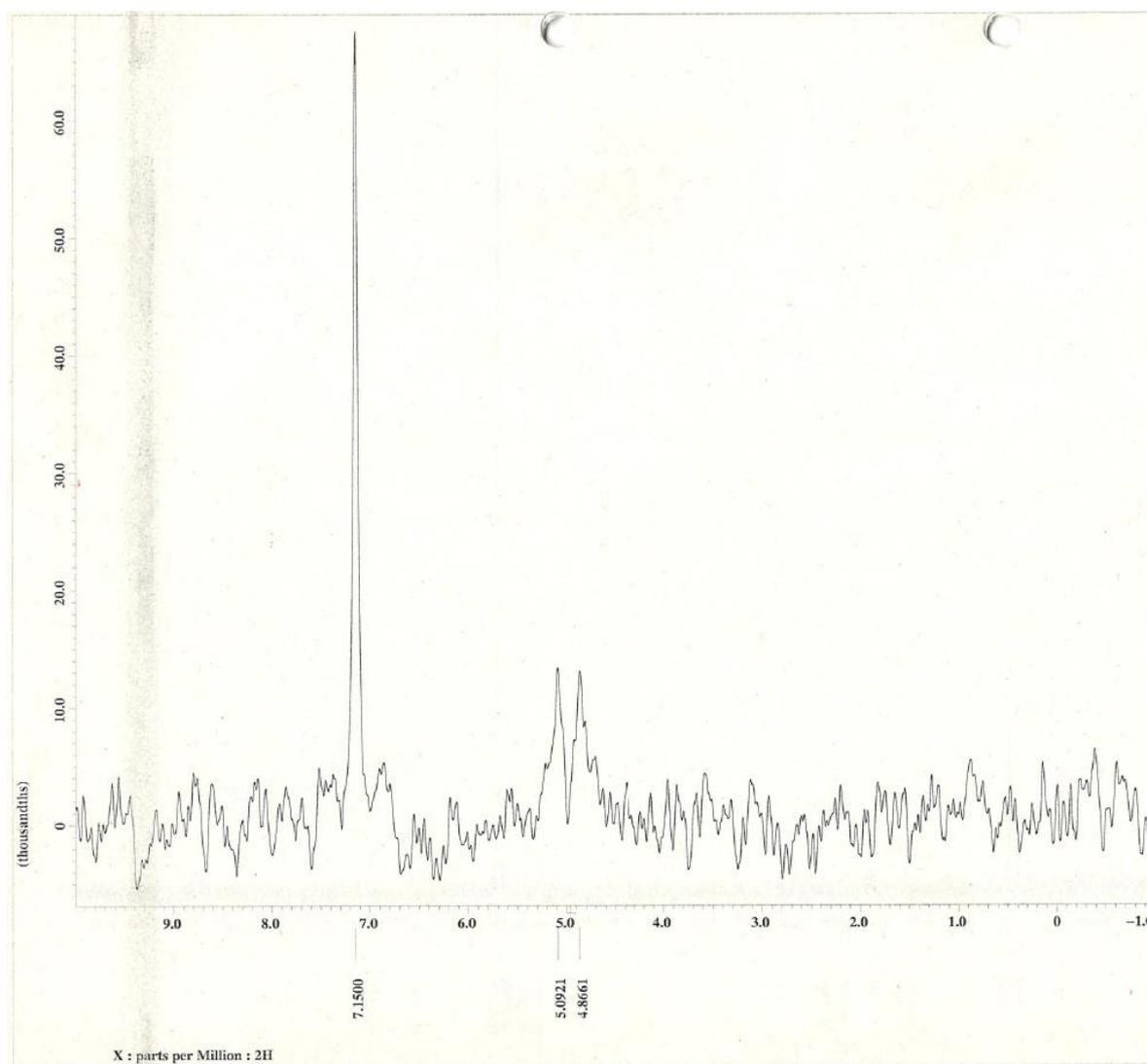


Figure S12. ^1H NMR spectrum of $1-d_4$ in C_6H_6 at 20°C .

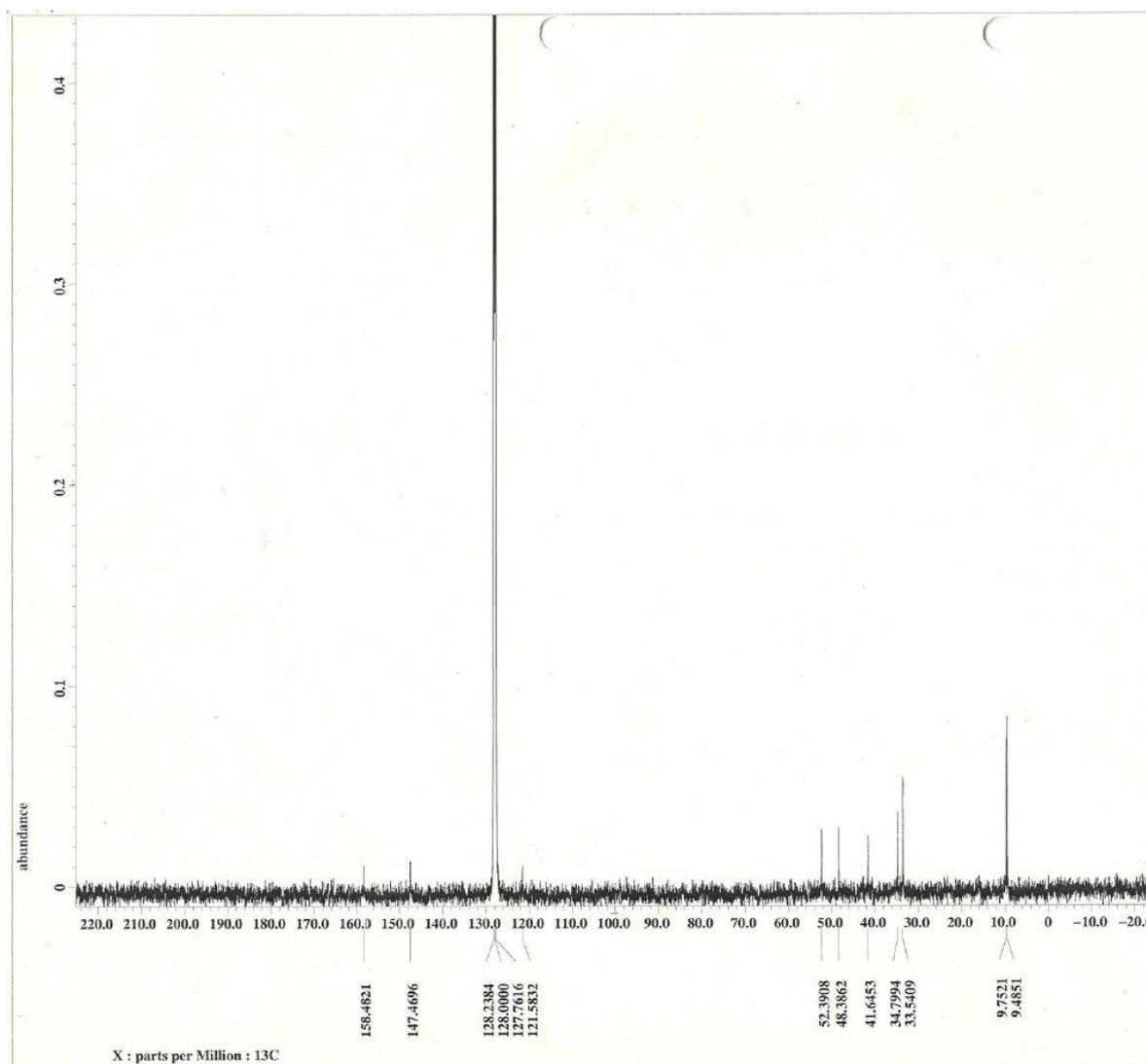


Figure S13. ^{13}C NMR spectrum of $1-d_4$ in C_6D_6 at 20°C .

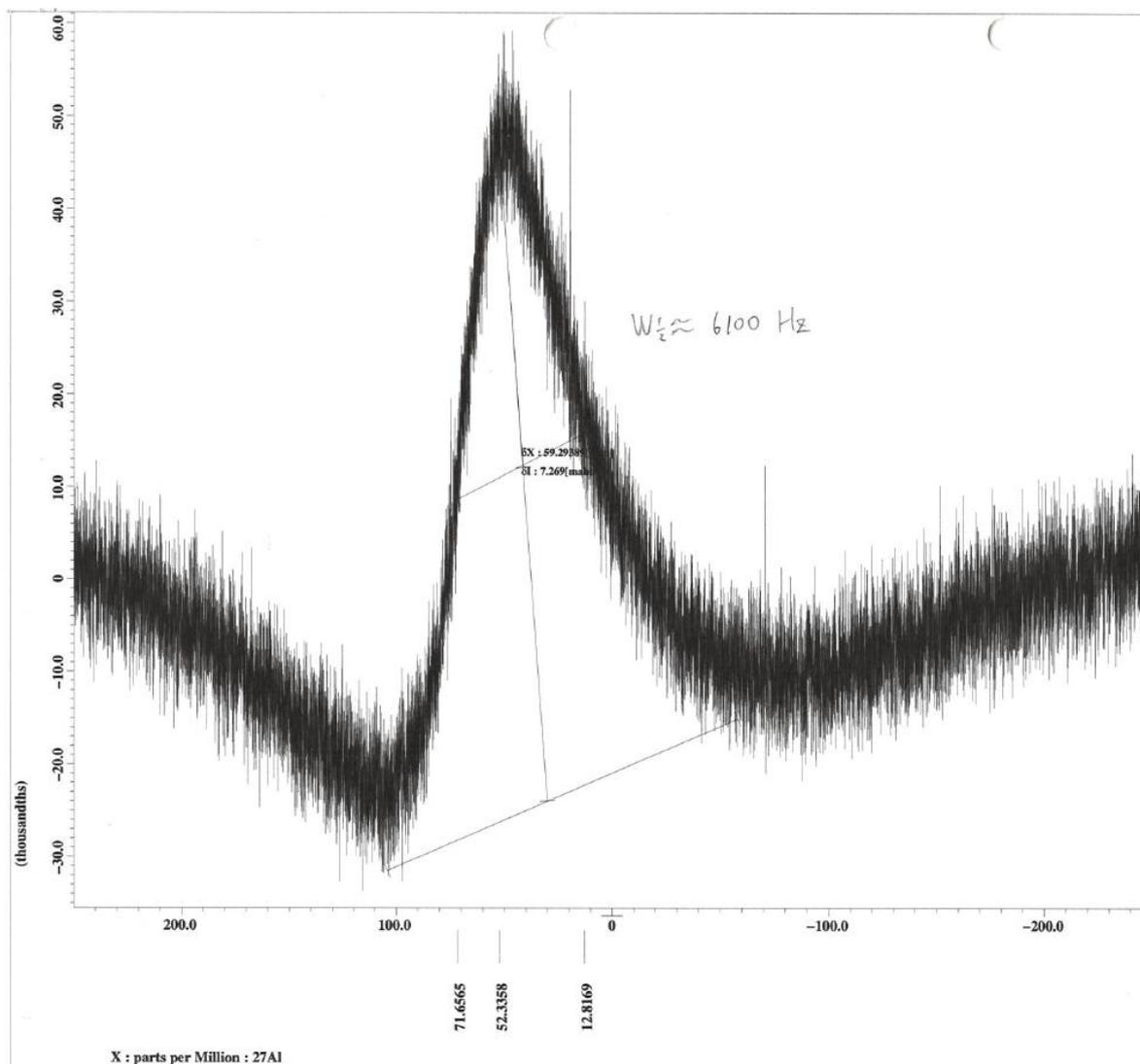


Figure S14. ^{27}Al NMR spectrum of 1-d_4 in C_6D_6 at 20°C .

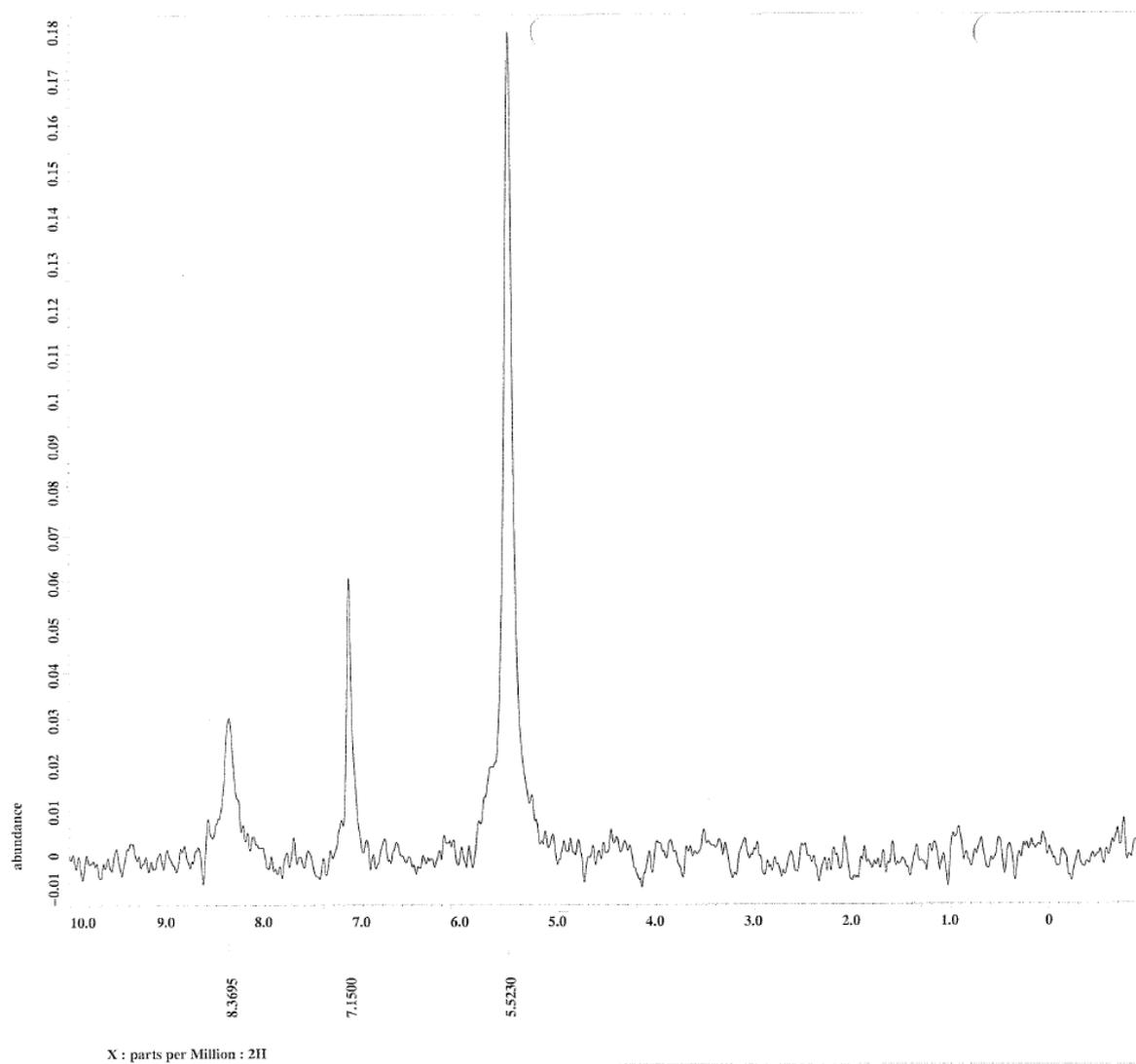


Figure S15. ^2H NMR spectrum of the reaction mixture of $1-d_4$ and Py in C_6H_6 at 20°C after 22 h.

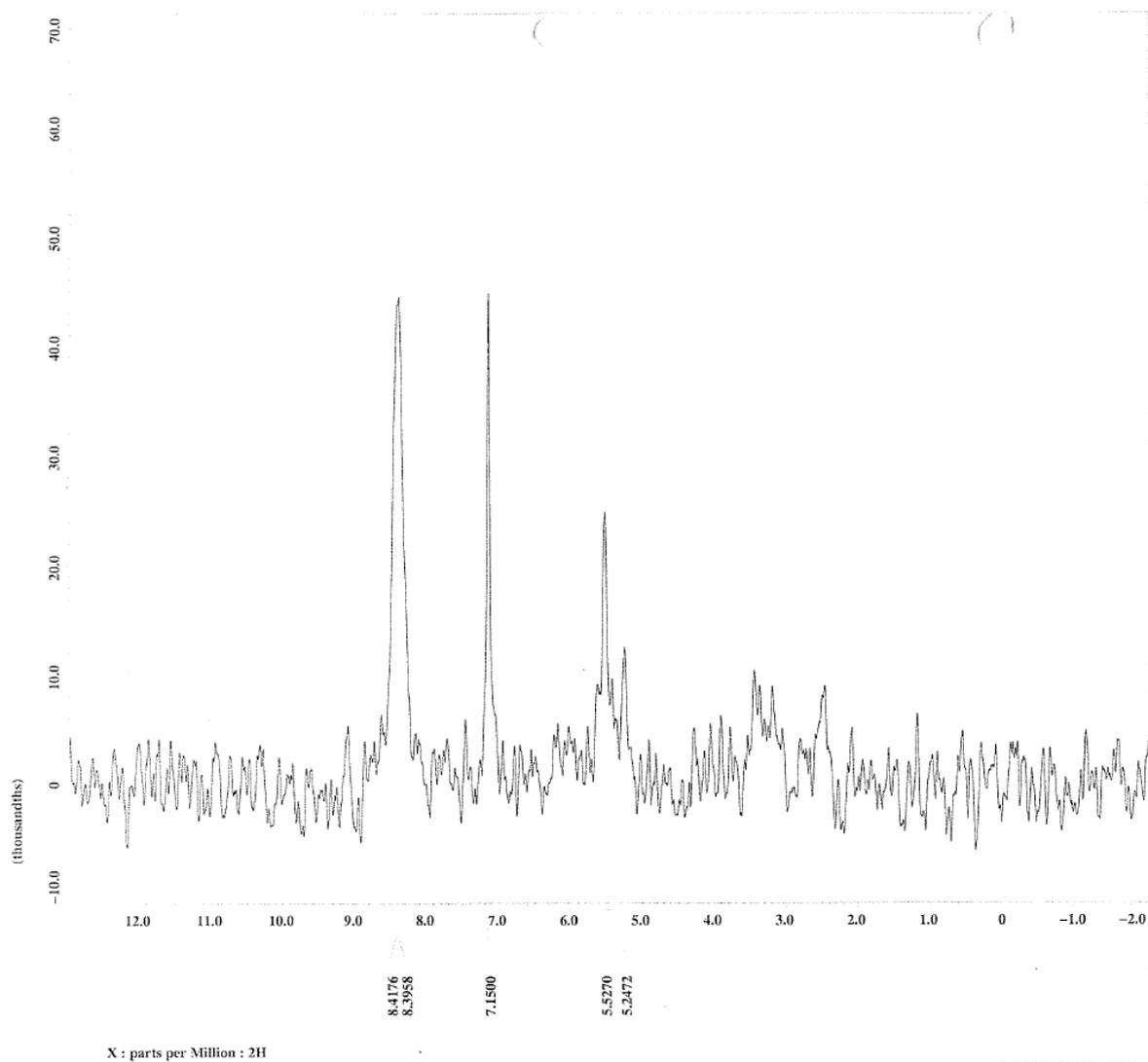


Figure S16. ^2H NMR spectrum of the reaction mixture of $1-d_4$ and Py in C_6H_6 at 20°C after 5 days.

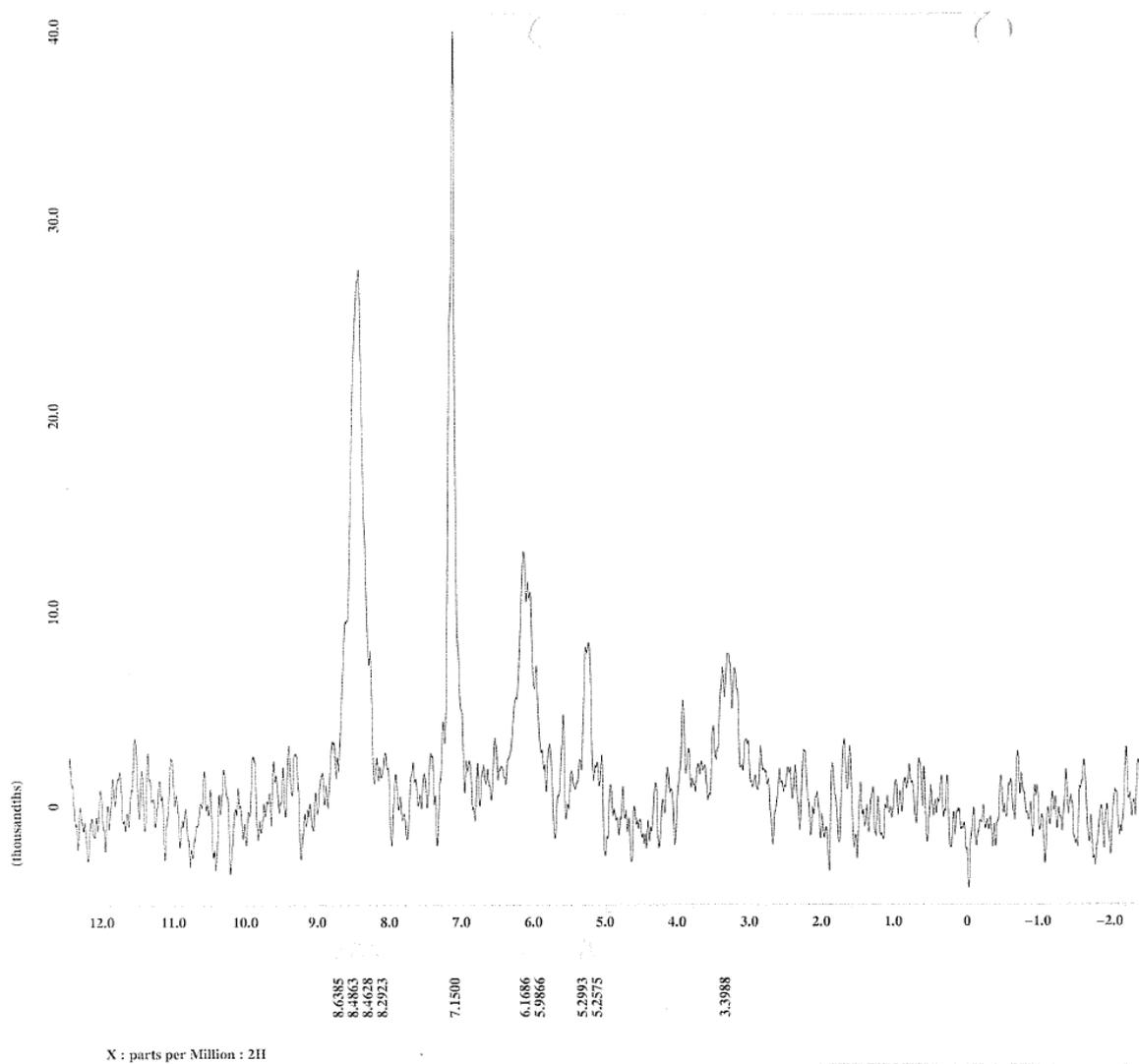


Figure S17. ^2H NMR spectrum of the reaction mixture of $1-d_4$ and Py in C_6H_6 at 20°C after 11 days.

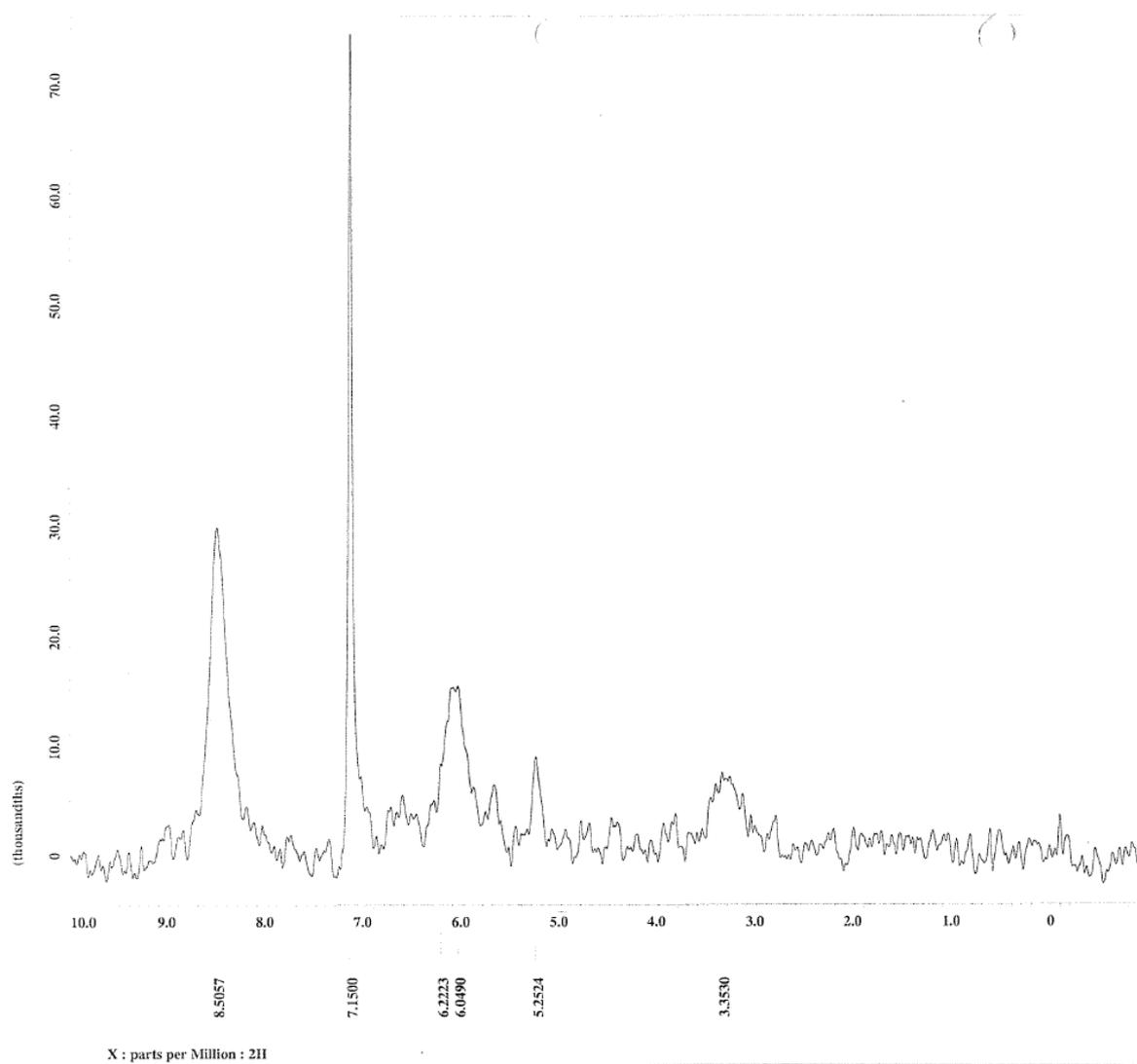


Figure S18. ^2H NMR spectrum of the reaction mixture of $1-d_4$ and Py in C_6H_6 at 20°C after 27 days.