

Supporting Information

Cyclohexadienone cored 3,6-ditertiary butyl carbazole decorated triazole bridged dendrimers-Synthesis, photophysical, electrochemical properties and application as additive in Dye-sensitized Solar cells

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Cartesian Coordinates:

Dendrimer 1 DFT optimized geometry

B3LYP/6-31G(d,p)

0 1

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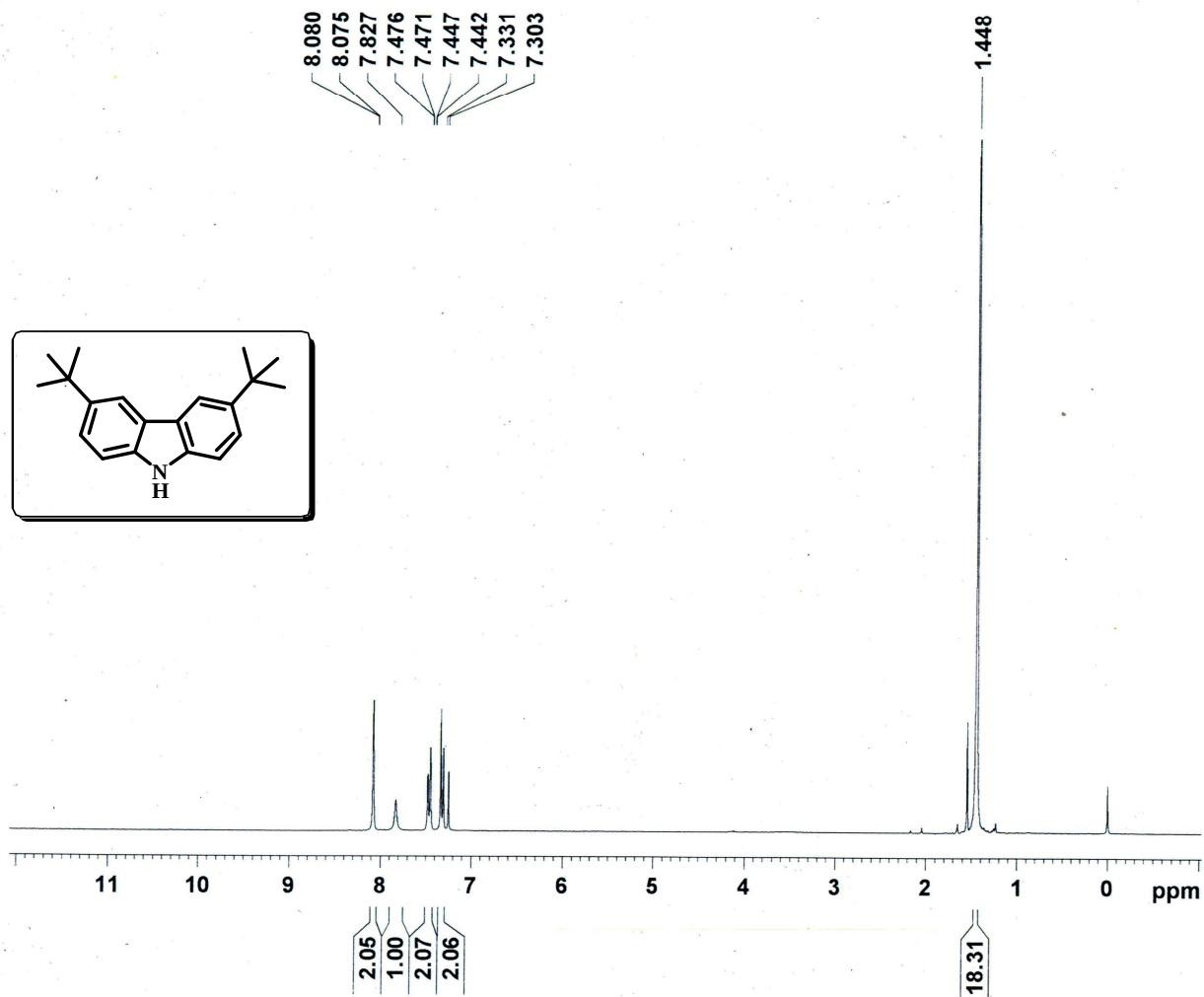
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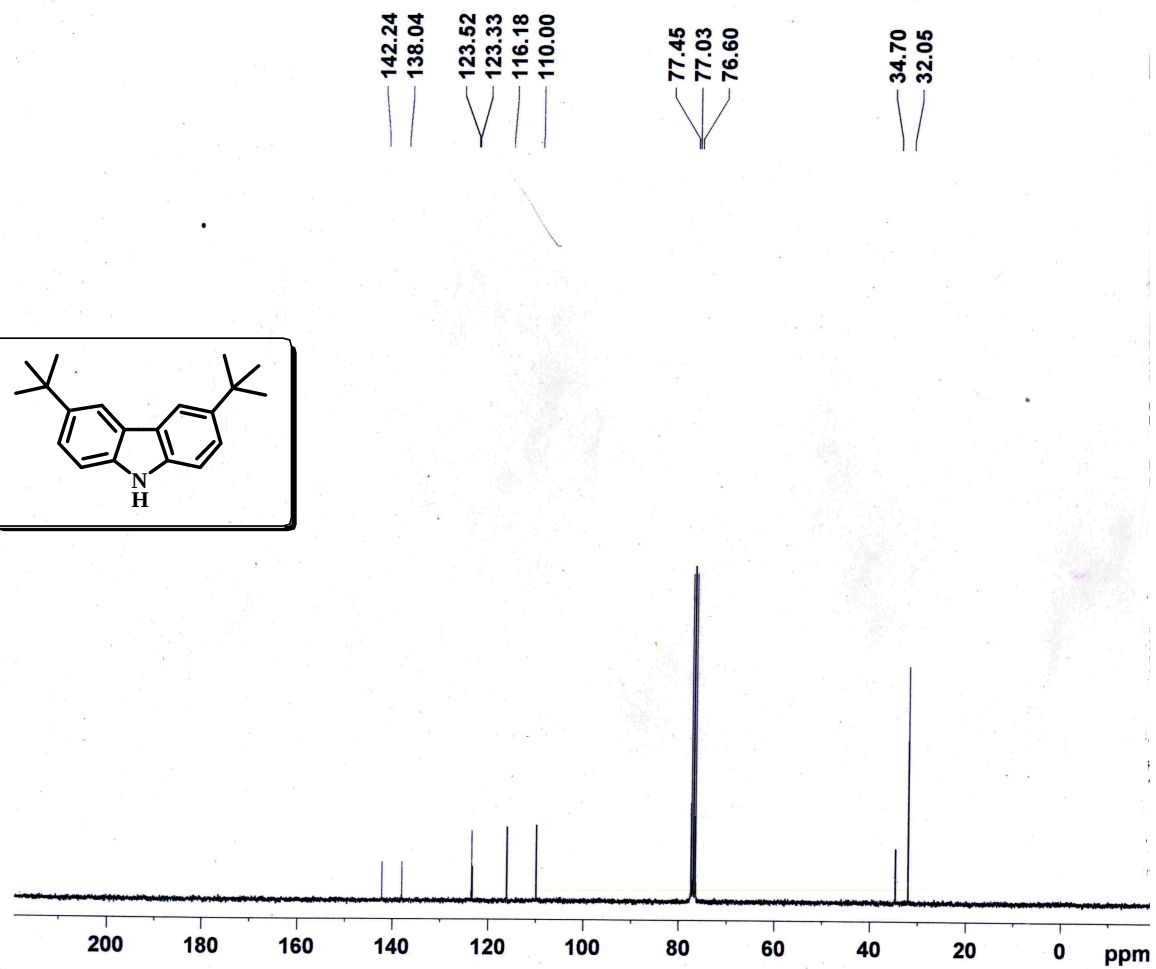
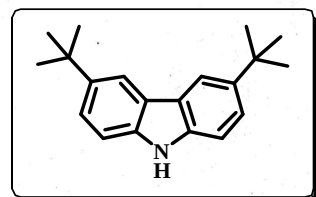
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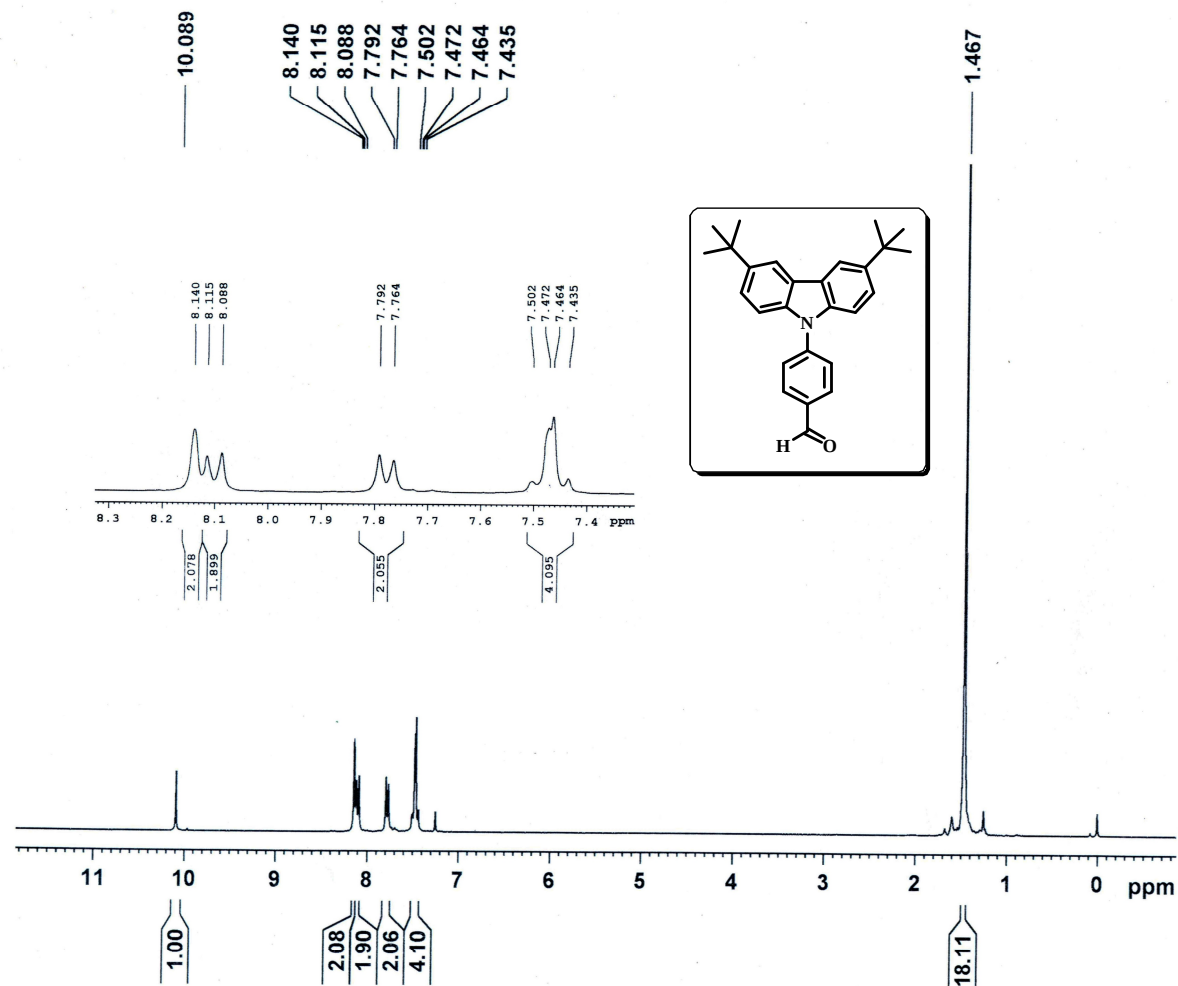
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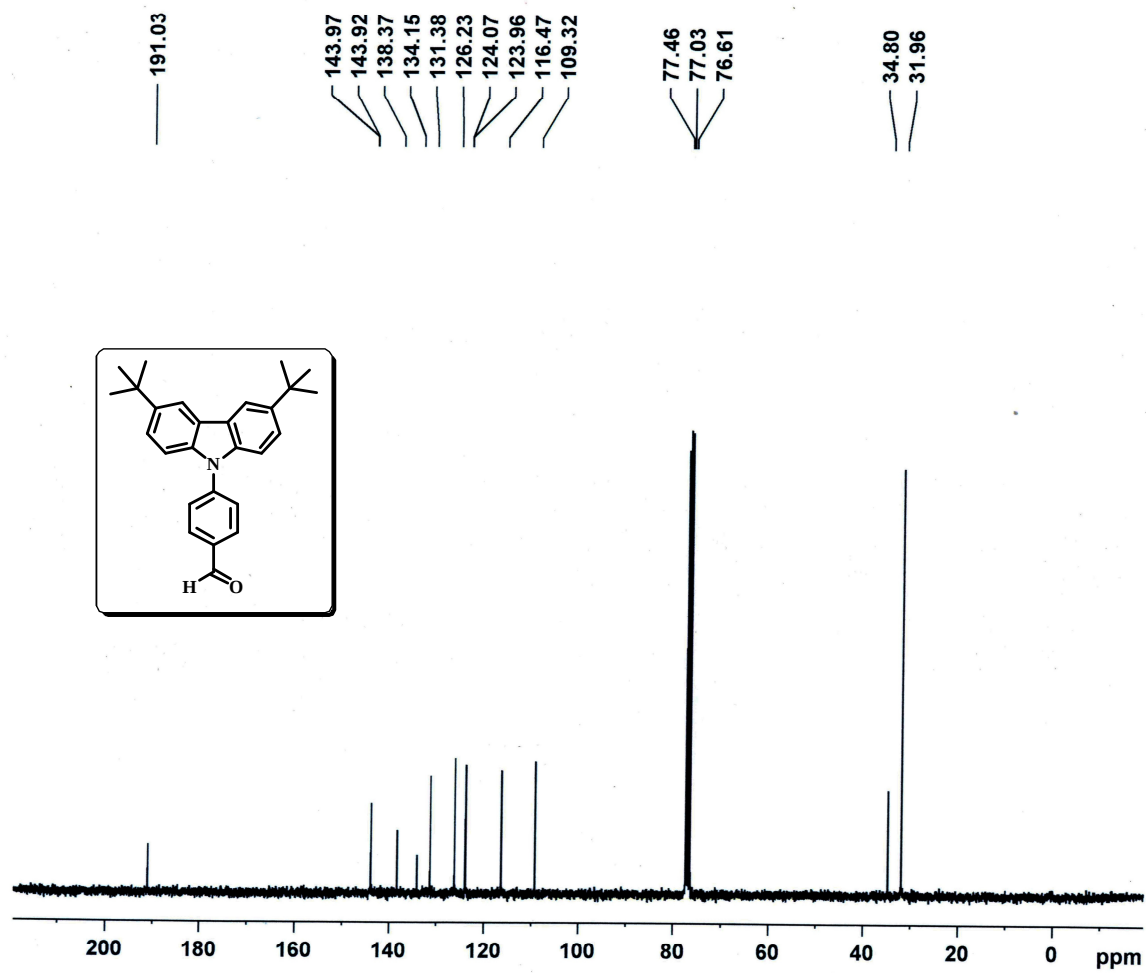
^1H NMR spectrum (300 MHz, CDCl_3) of compound 5



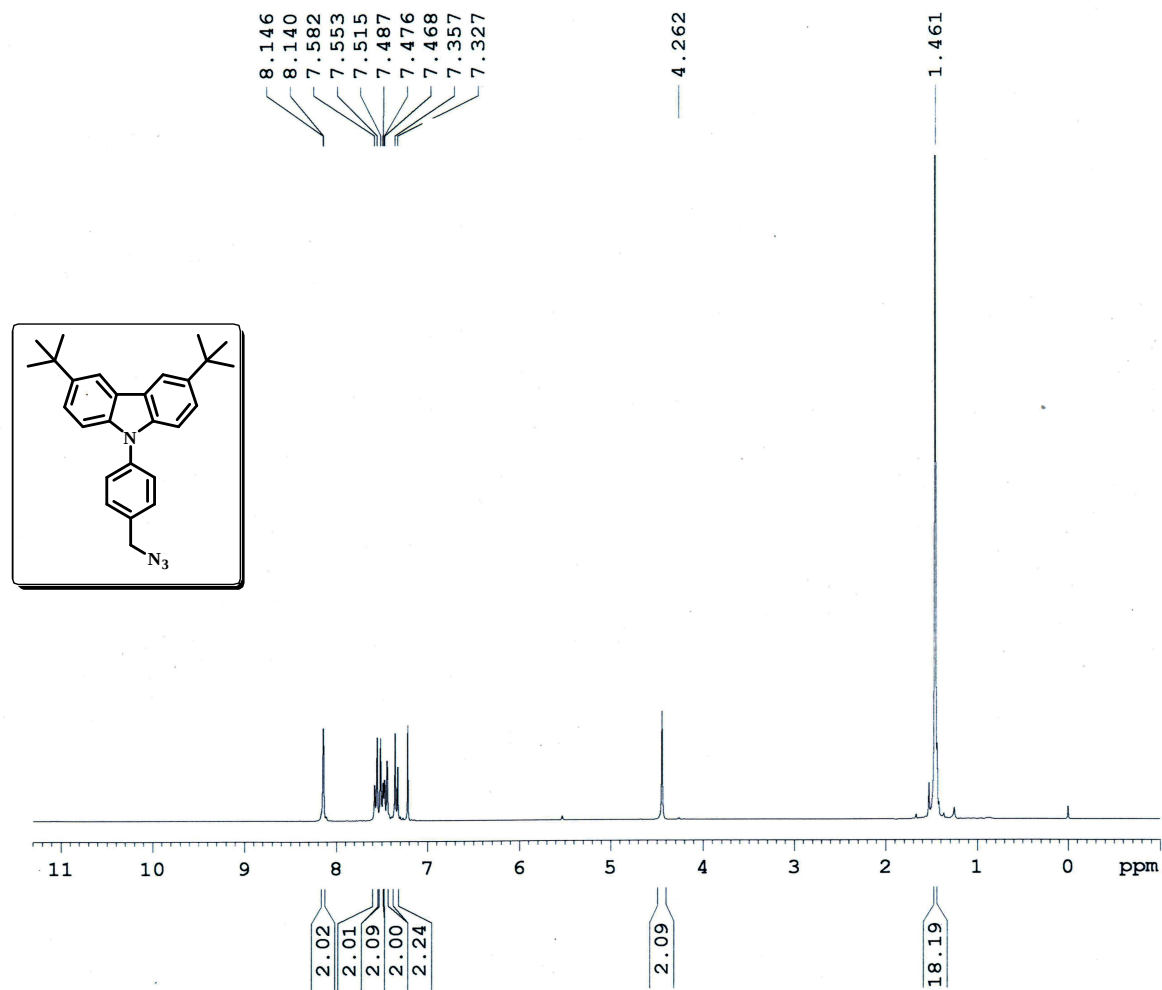
^{13}C NMR spectrum (75 MHz, CDCl_3) of compound 5



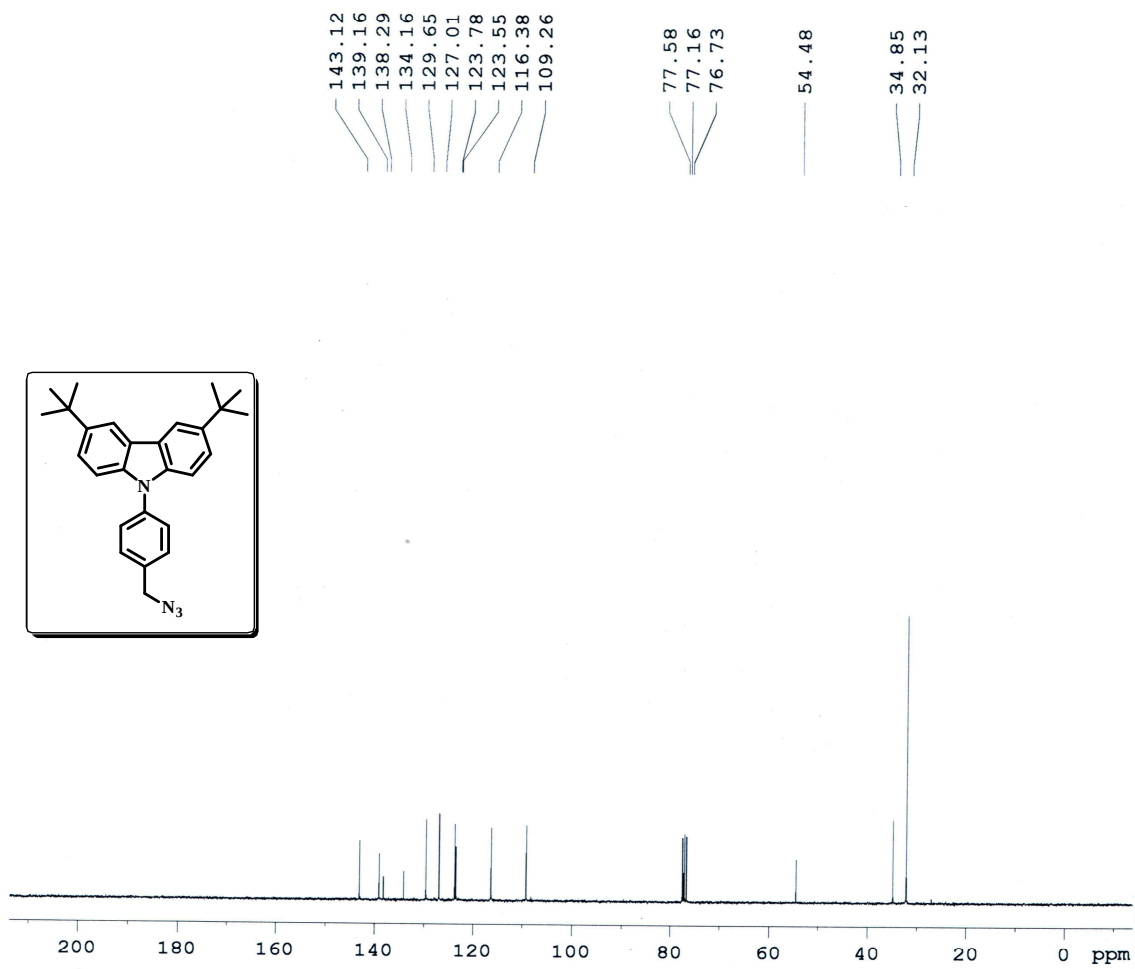
¹H NMR spectrum (300 MHz, CDCl₃) of compound 6



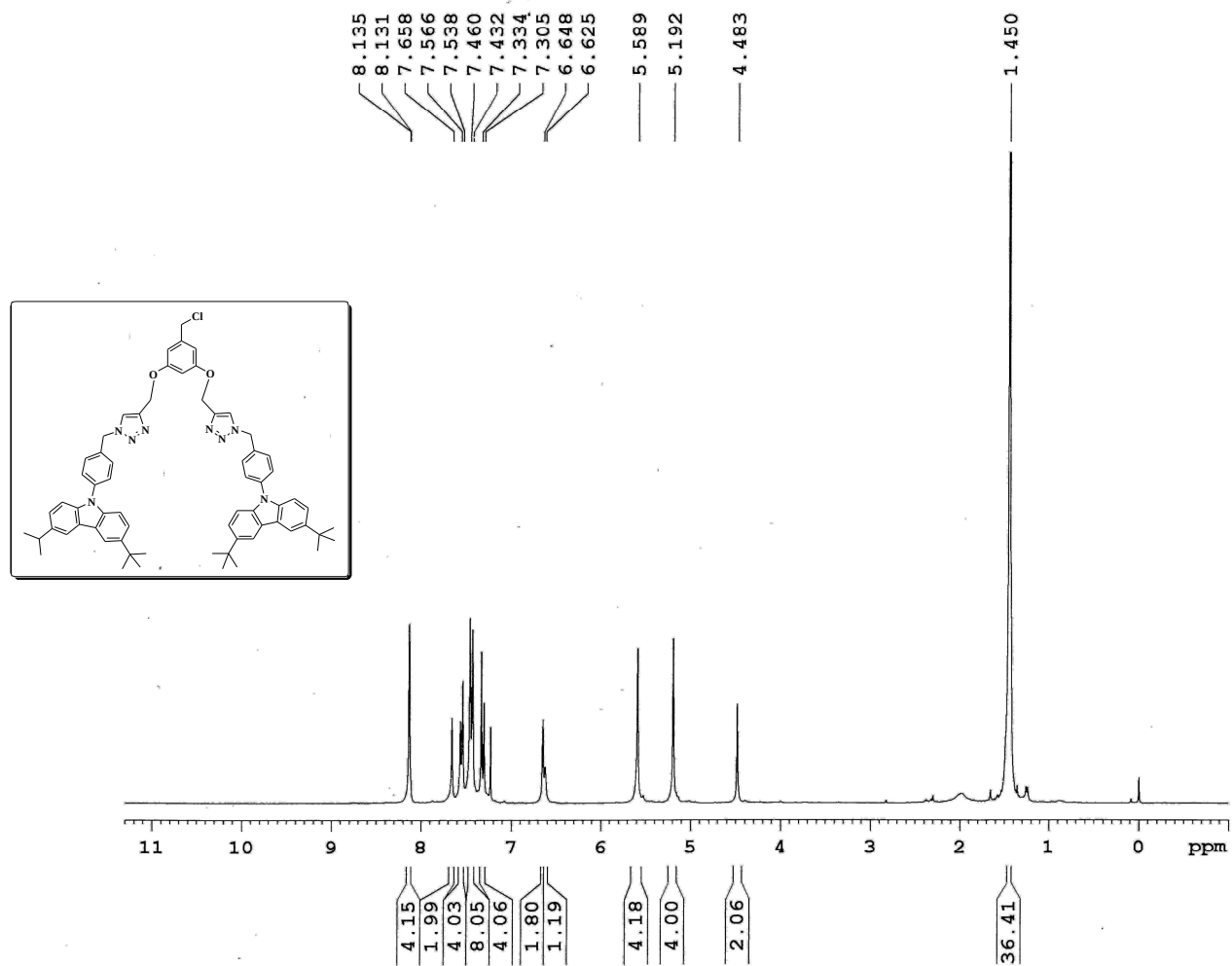
¹³C NMR spectrum (75 MHz, CDCl₃) of compound **6**



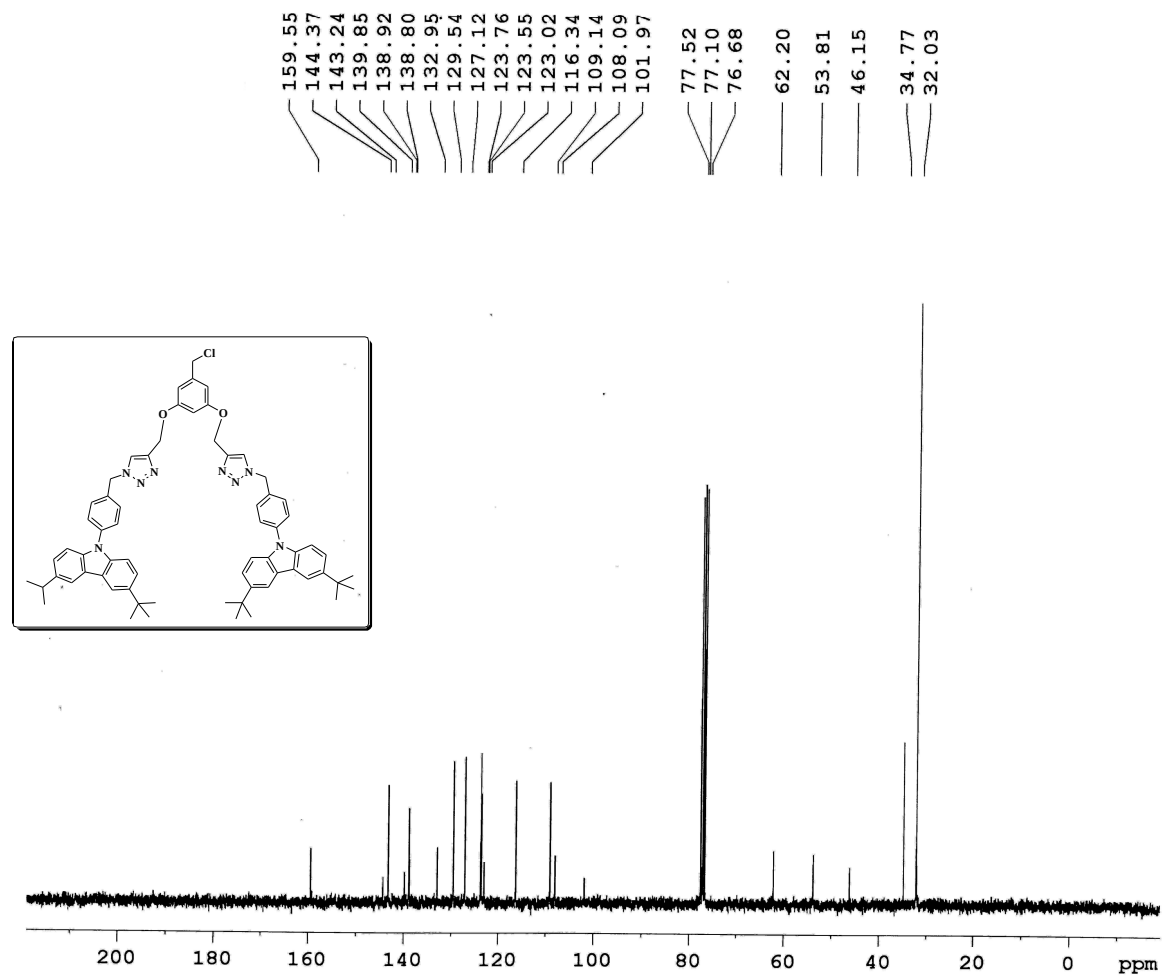
¹H NMR spectrum (300 MHz, CDCl₃) of compound 9



^{13}C NMR spectrum (75 MHz, CDCl_3) of compound **9**

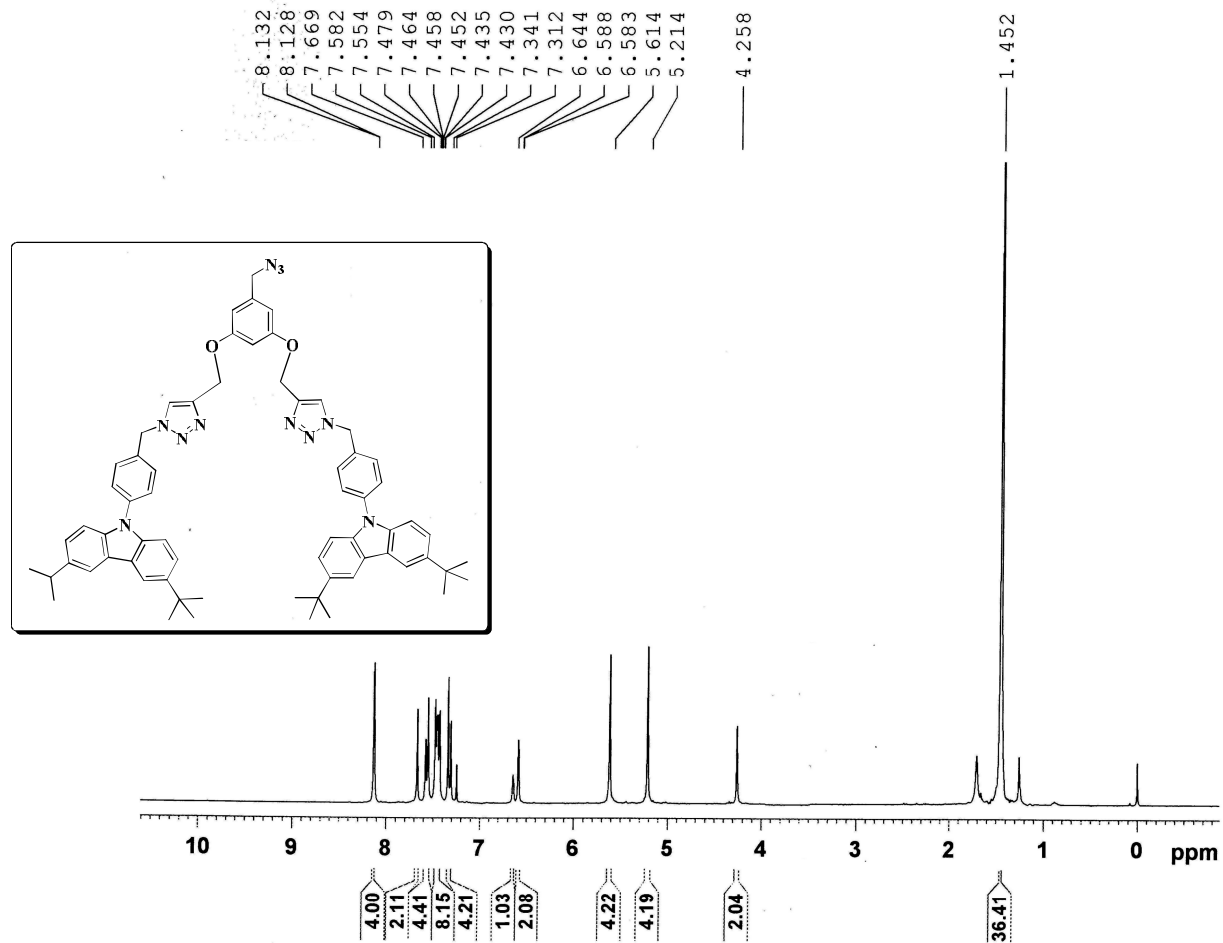


^1H NMR spectrum (300 MHz, CDCl_3) of compound **11**

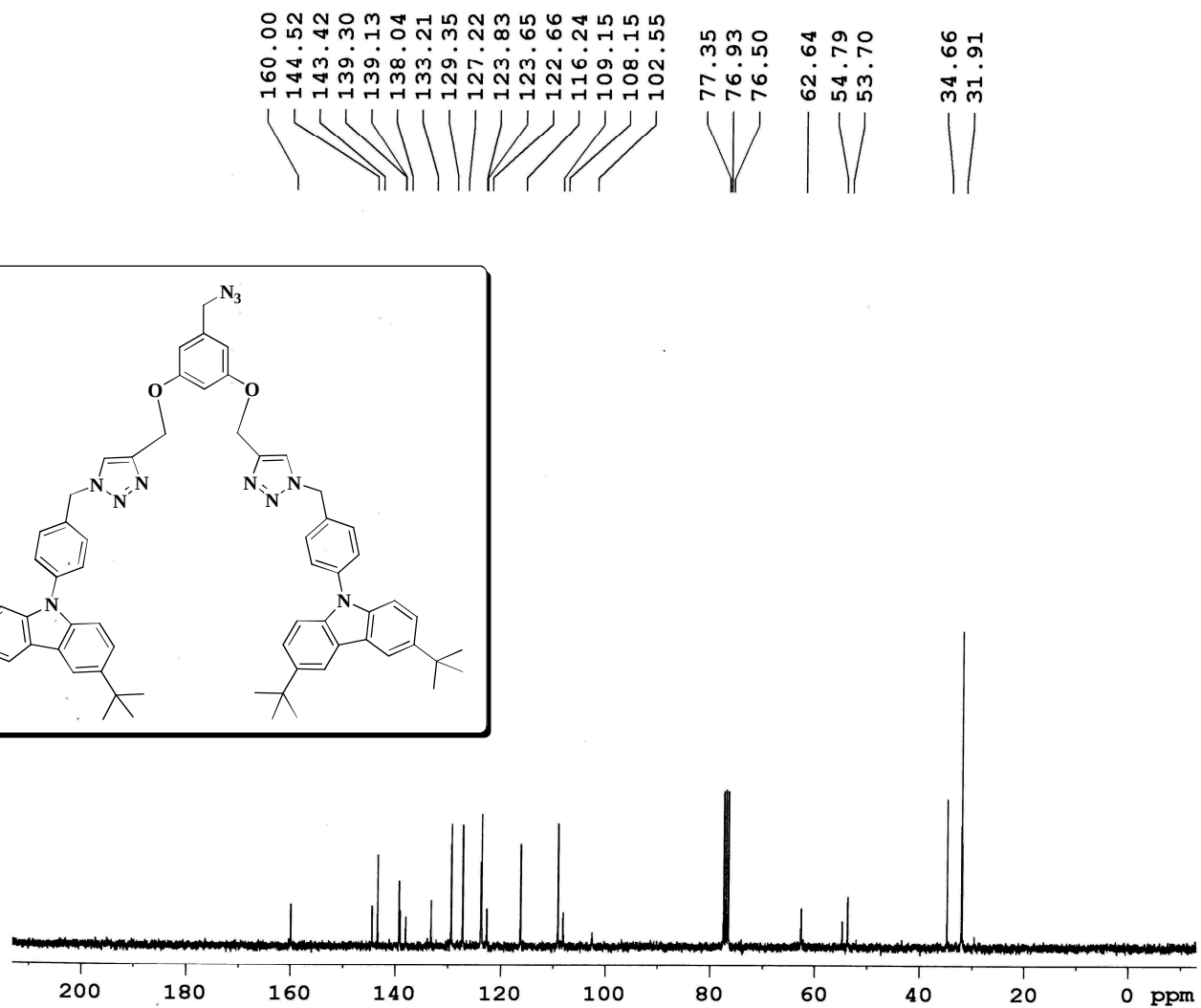
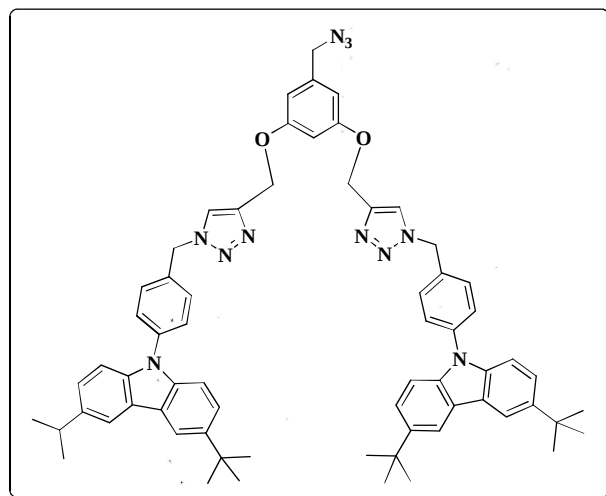


^{13}C NMR spectrum (75 MHz, CDCl_3) of compound **11**

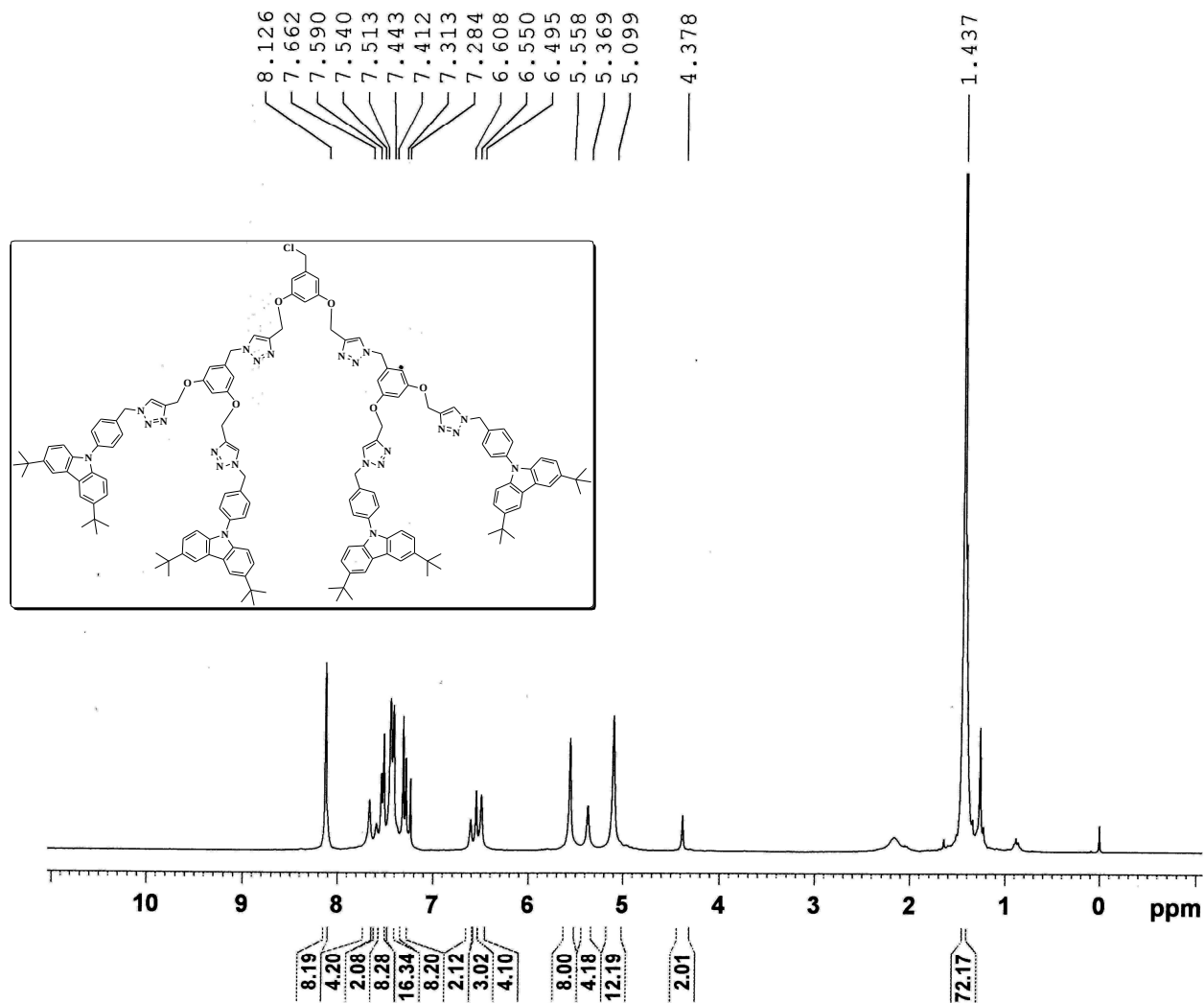
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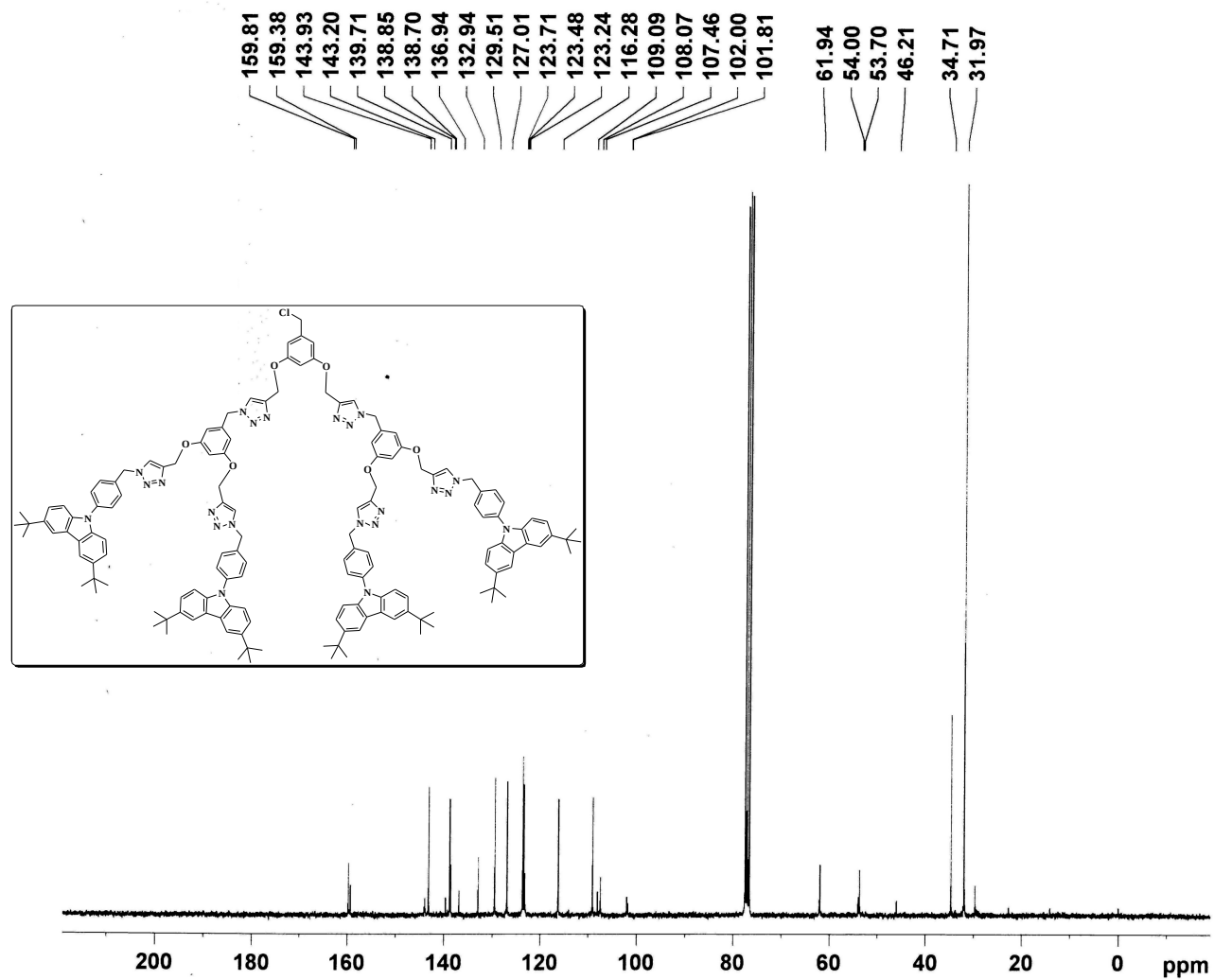
¹H NMR spectrum (300 MHz, CDCl₃) of compound 12

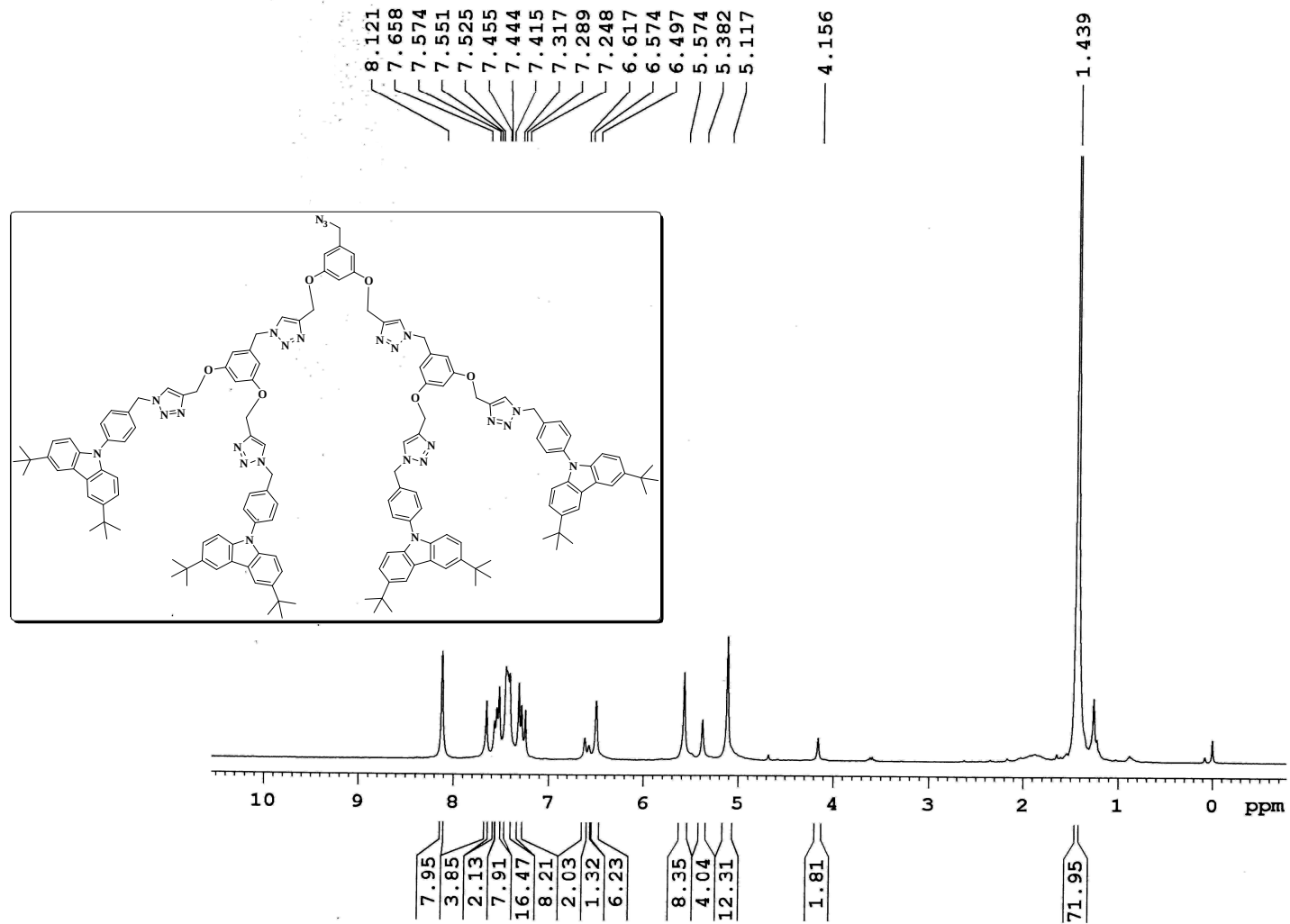


^{13}C NMR spectrum (75 MHz, CDCl_3) of compound **12**

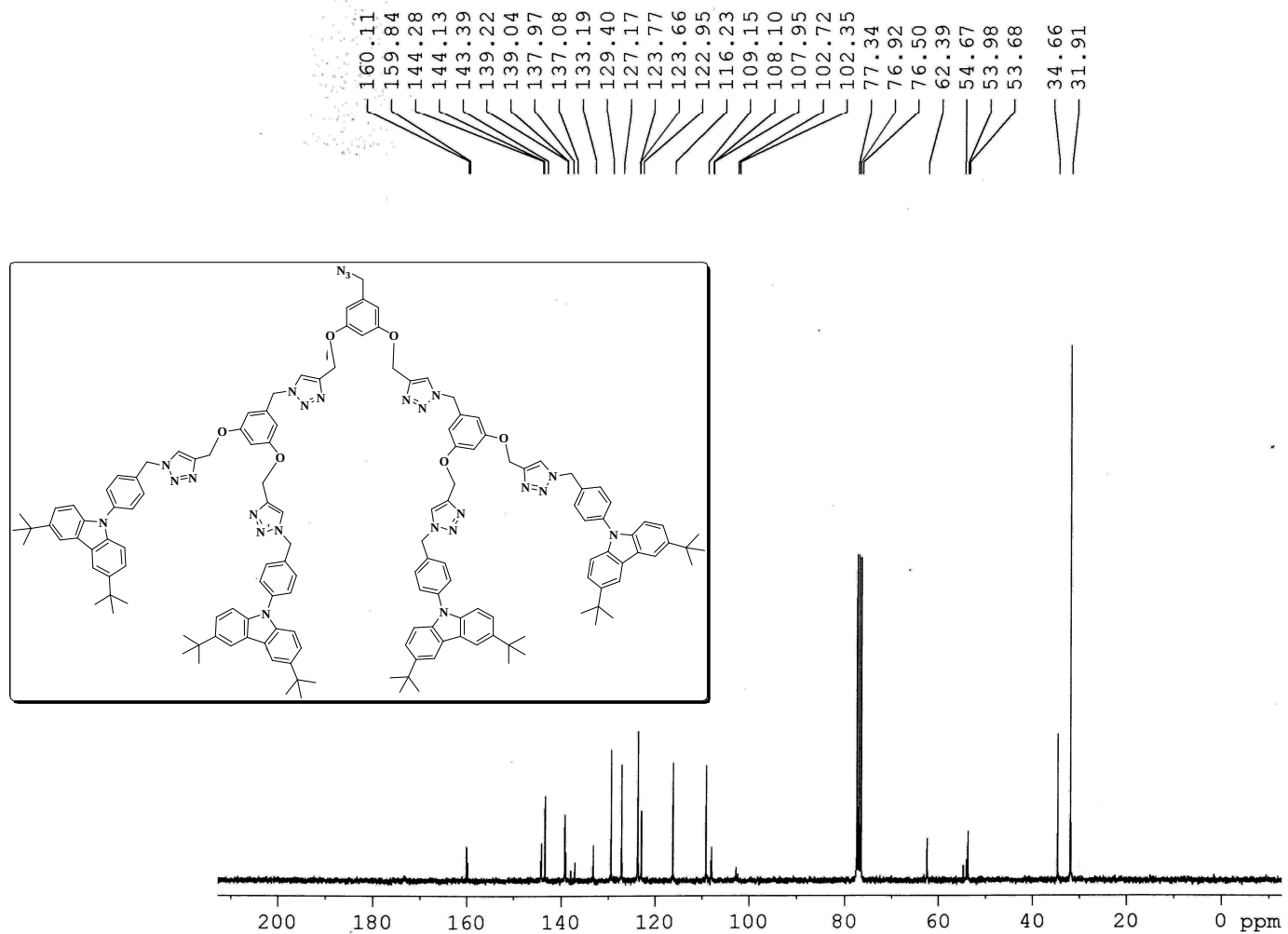


^1H NMR spectrum (300 MHz, CDCl_3) of compound **13**

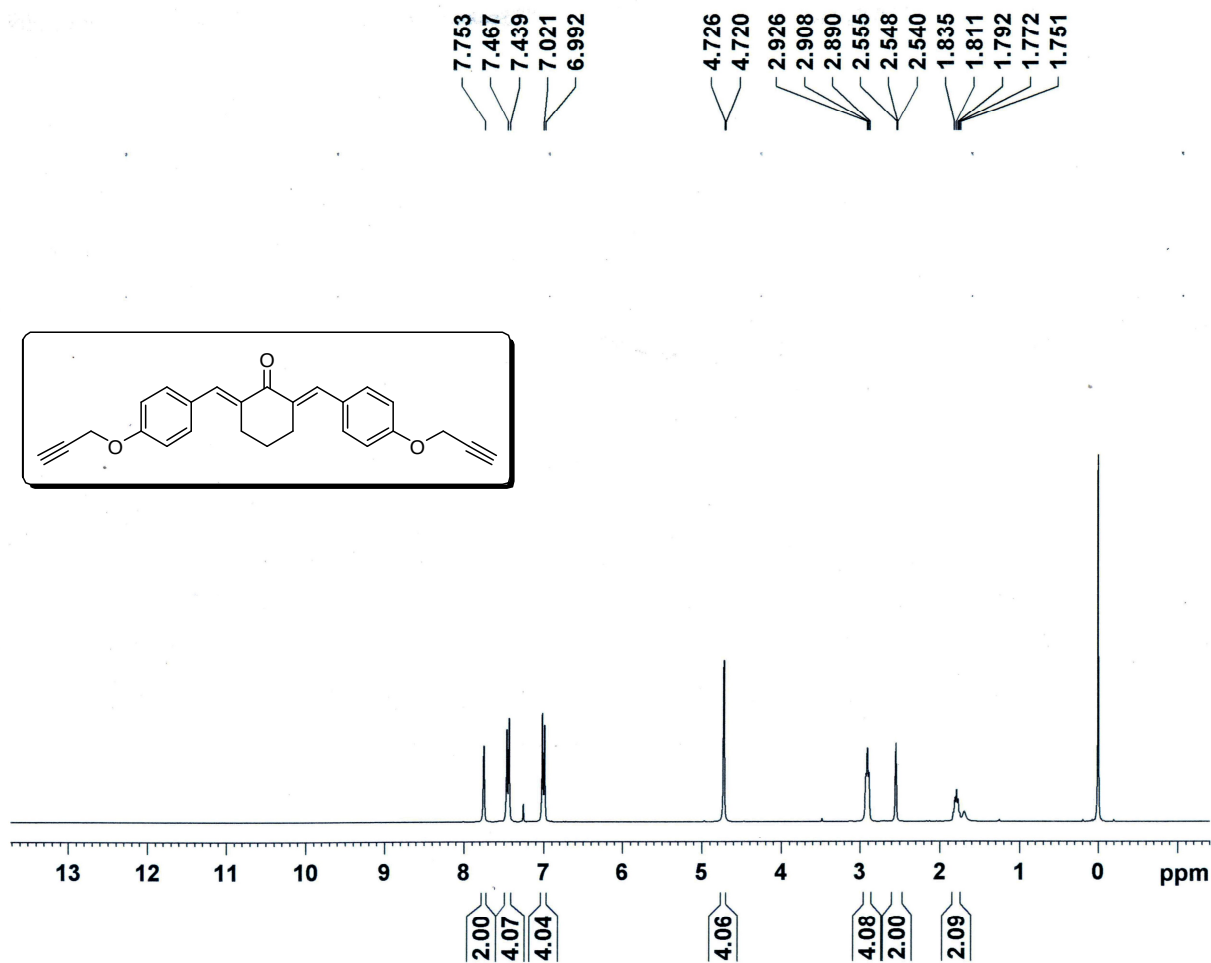




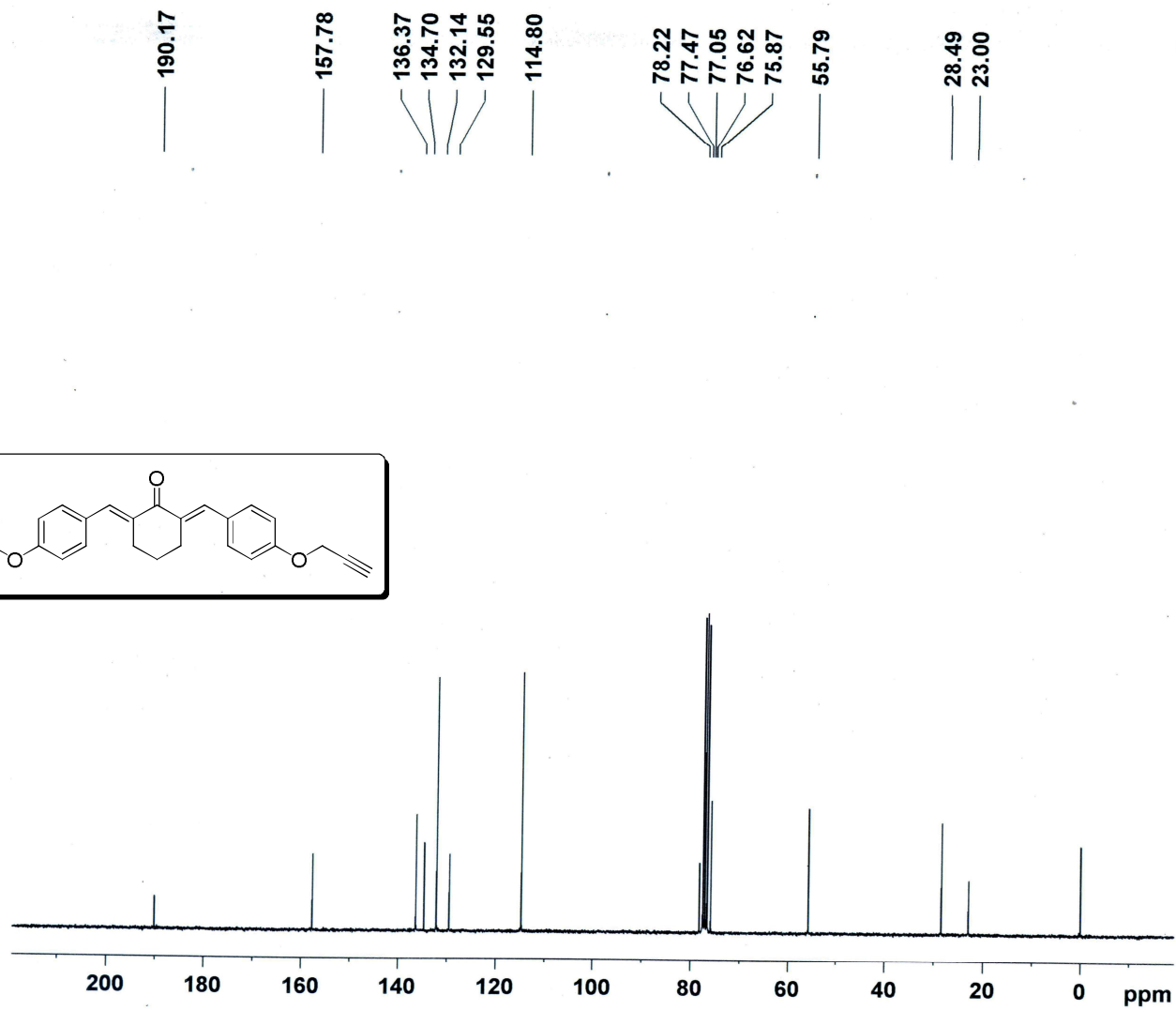
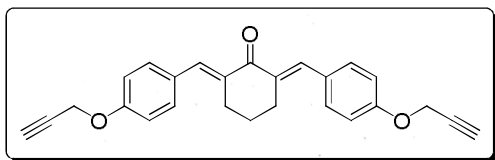
^1H NMR spectrum (300 MHz, CDCl_3) of compound **14**



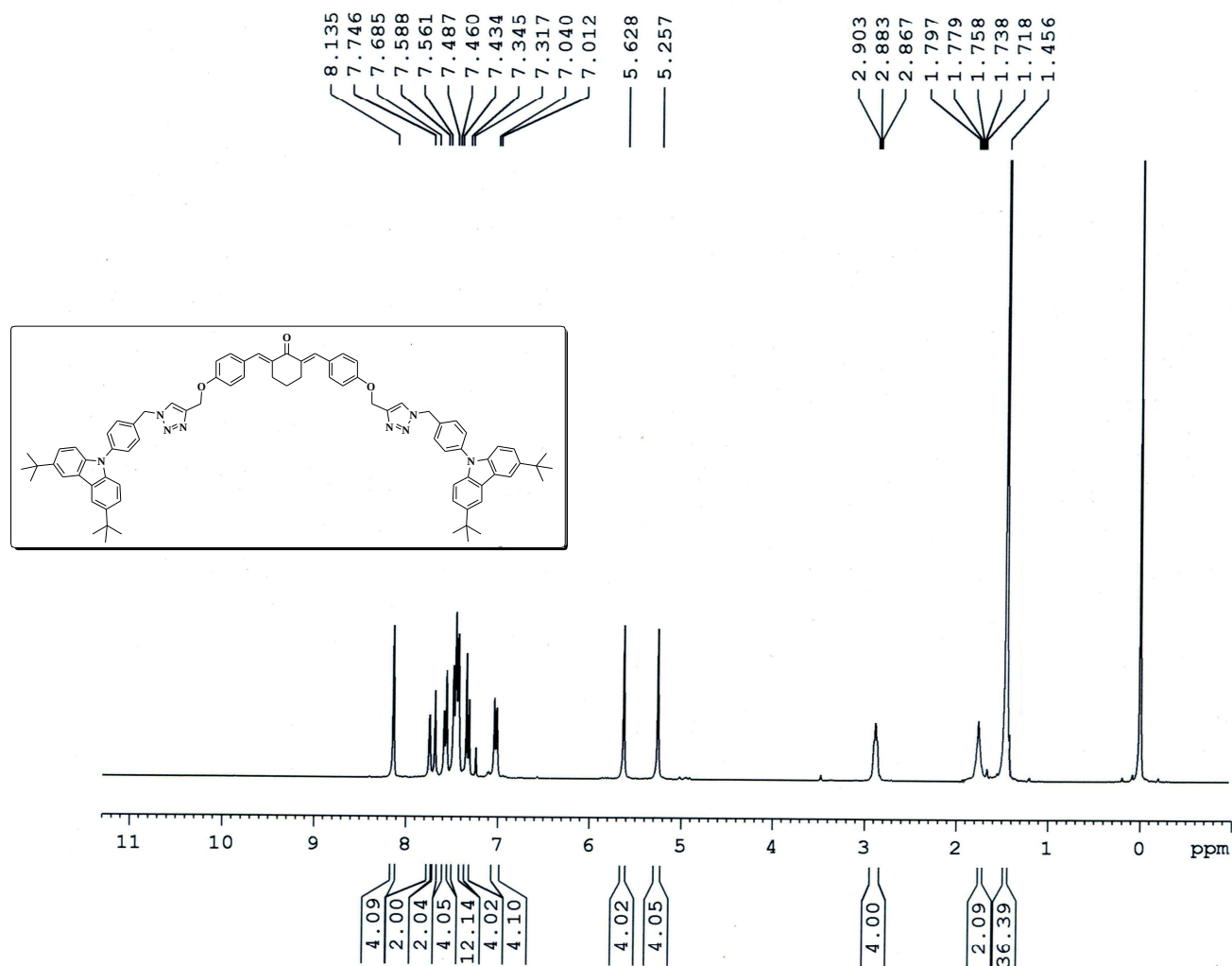
^{13}C NMR spectrum (75 MHz, CDCl_3) of compound **14**



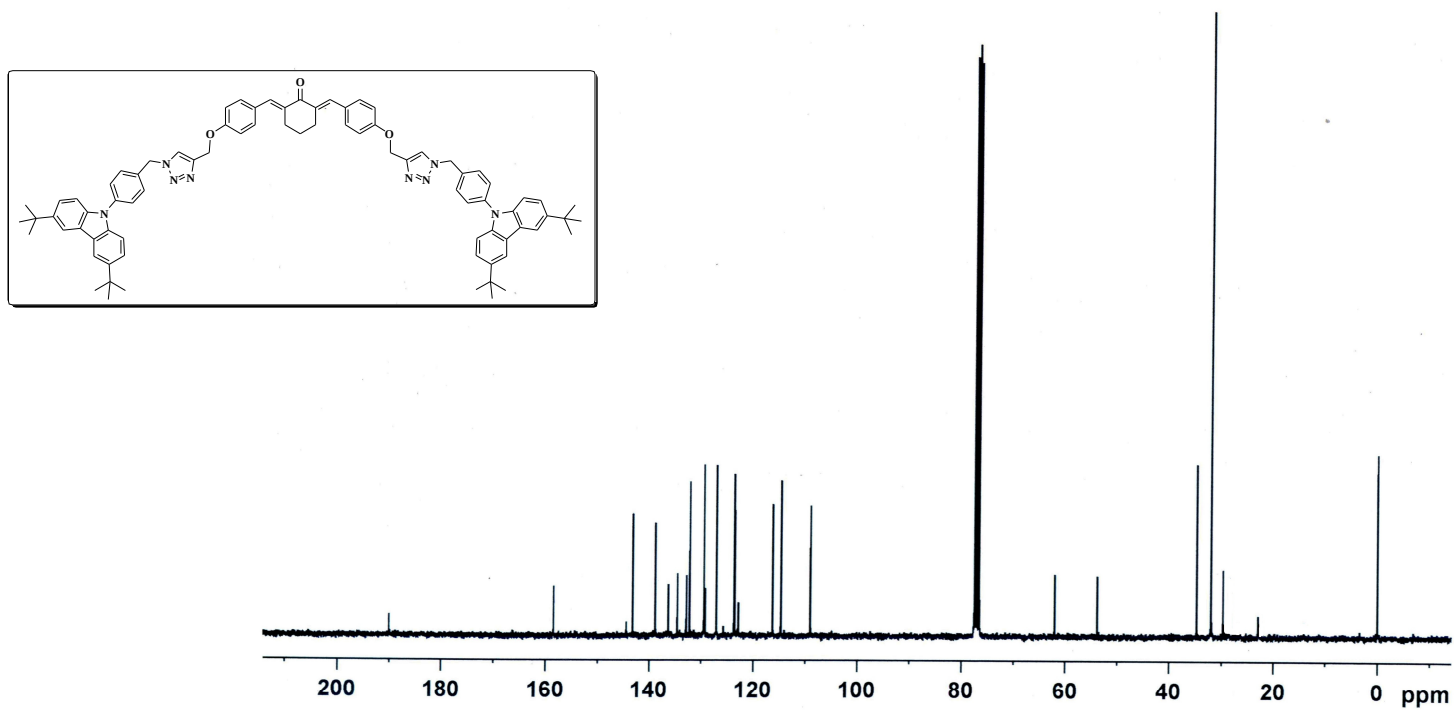
¹H NMR spectrum (300 MHz, CDCl₃) of compound **16**



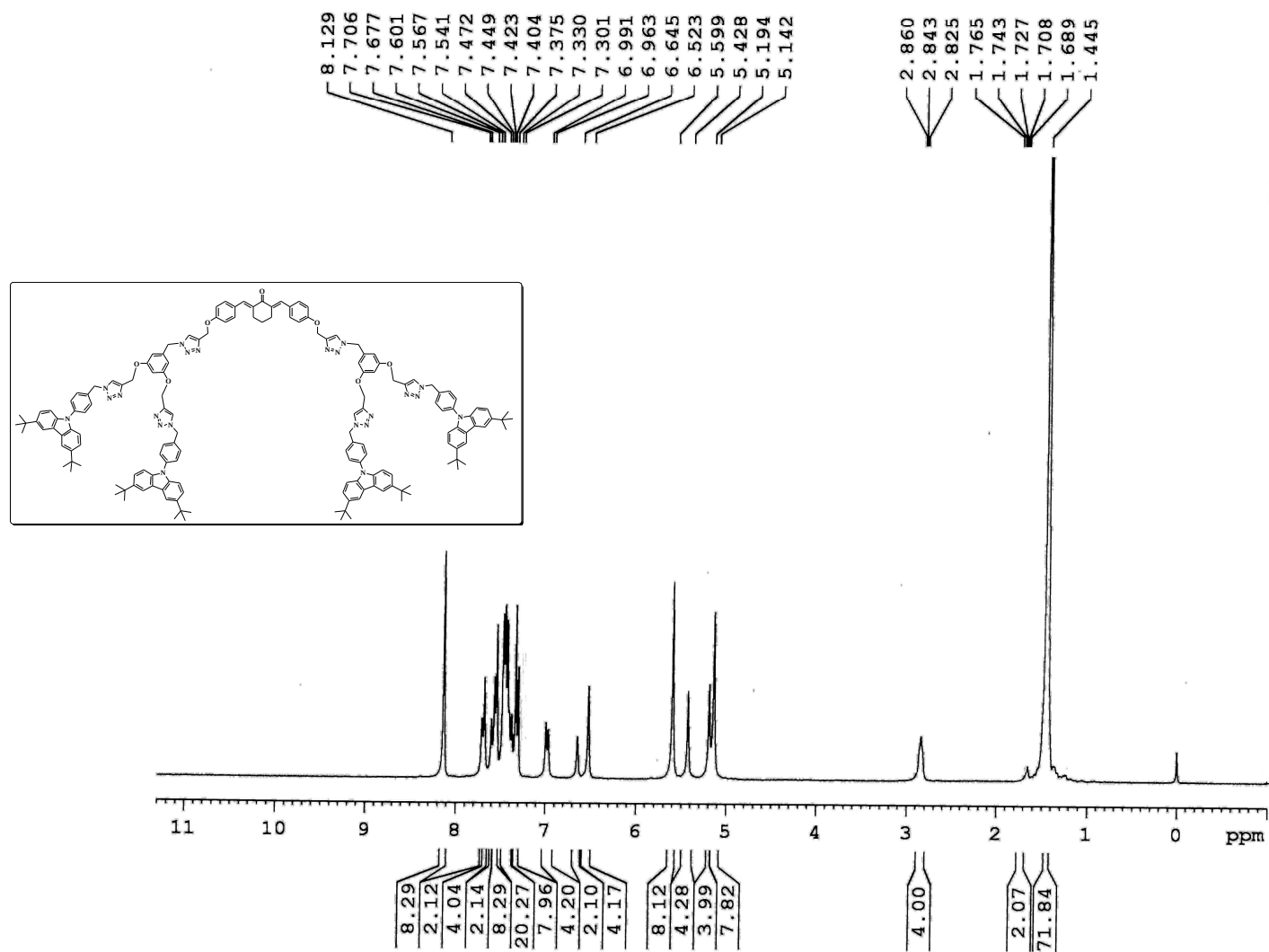
^{13}C NMR spectrum (75 MHz, CDCl_3) of compound **16**



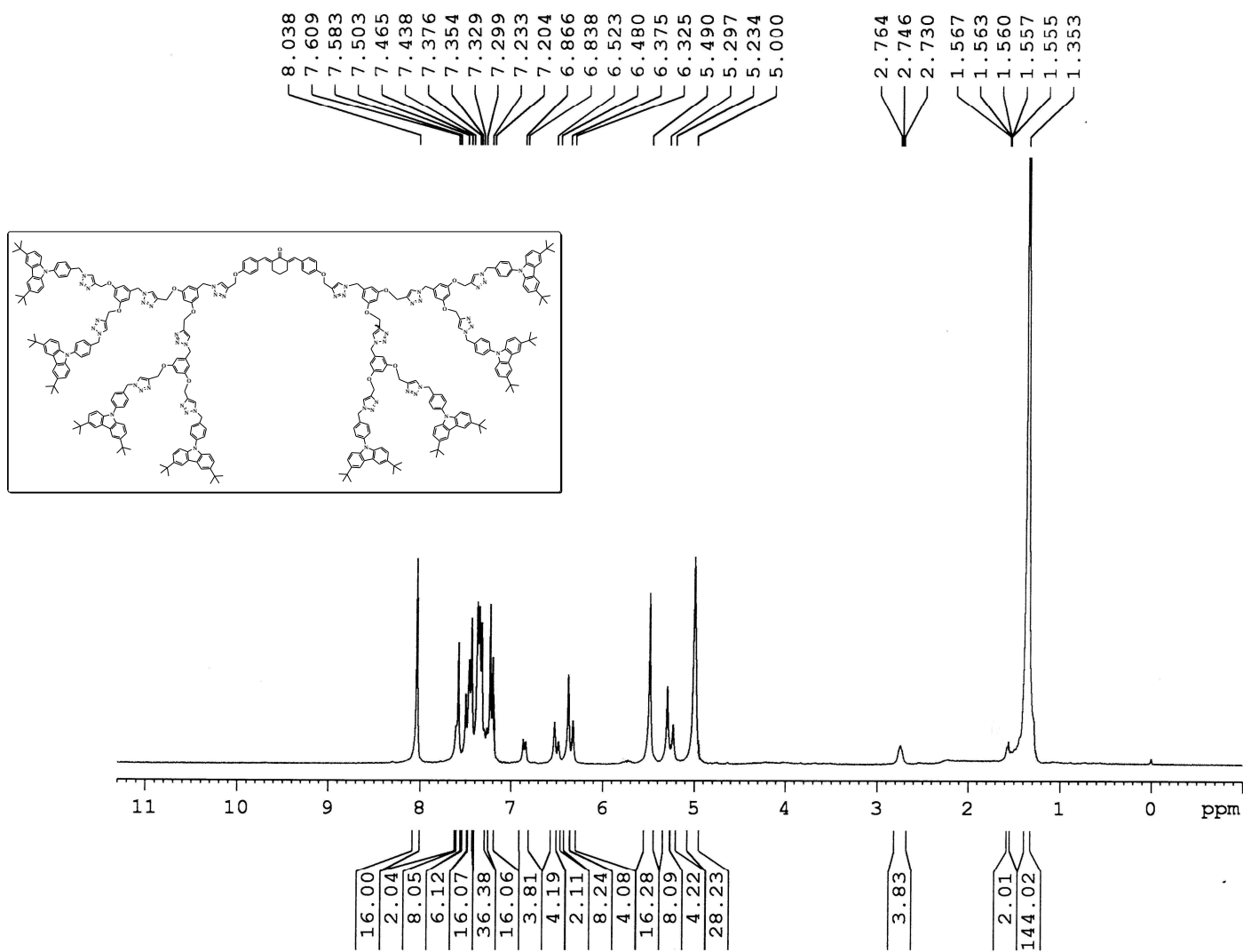
^1H NMR spectrum (300 MHz, CDCl_3) of Dendrimer 1



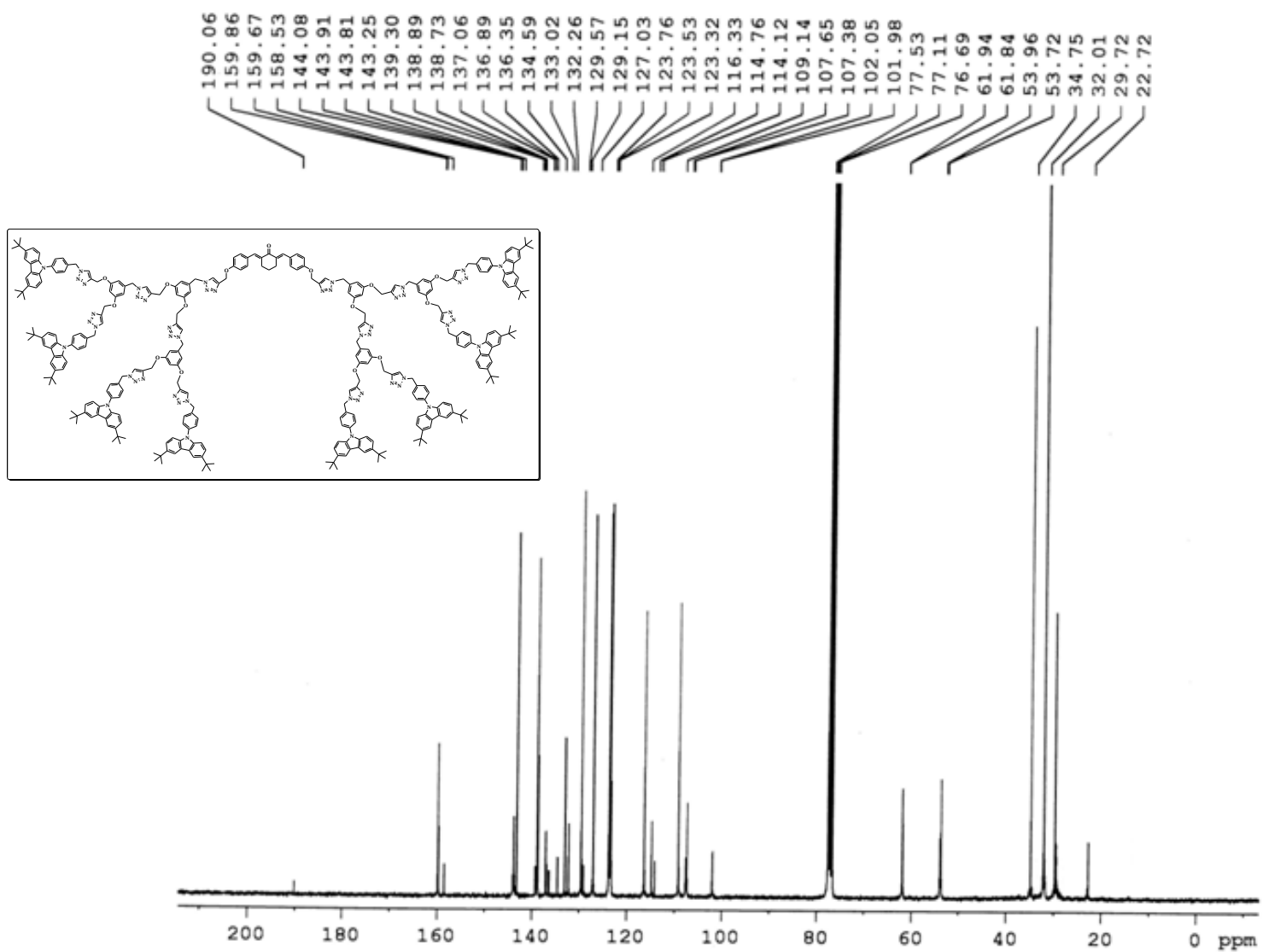
^{13}C NMR spectrum (75 MHz, CDCl_3) of Dendrimer 1



^1H NMR spectrum (300 MHz, CDCl_3) of Dendrimer 2



^1H NMR spectrum (300 MHz, CDCl_3) of Dendrimer 3



^{13}C NMR spectrum (75 MHz, CDCl_3) of Dendrimer 3