Supporting Information
Imino phenoxide complexes of Niobium and Tantalum as catalyst for the polymerization of lactides, ε-caprolactone and ethylene

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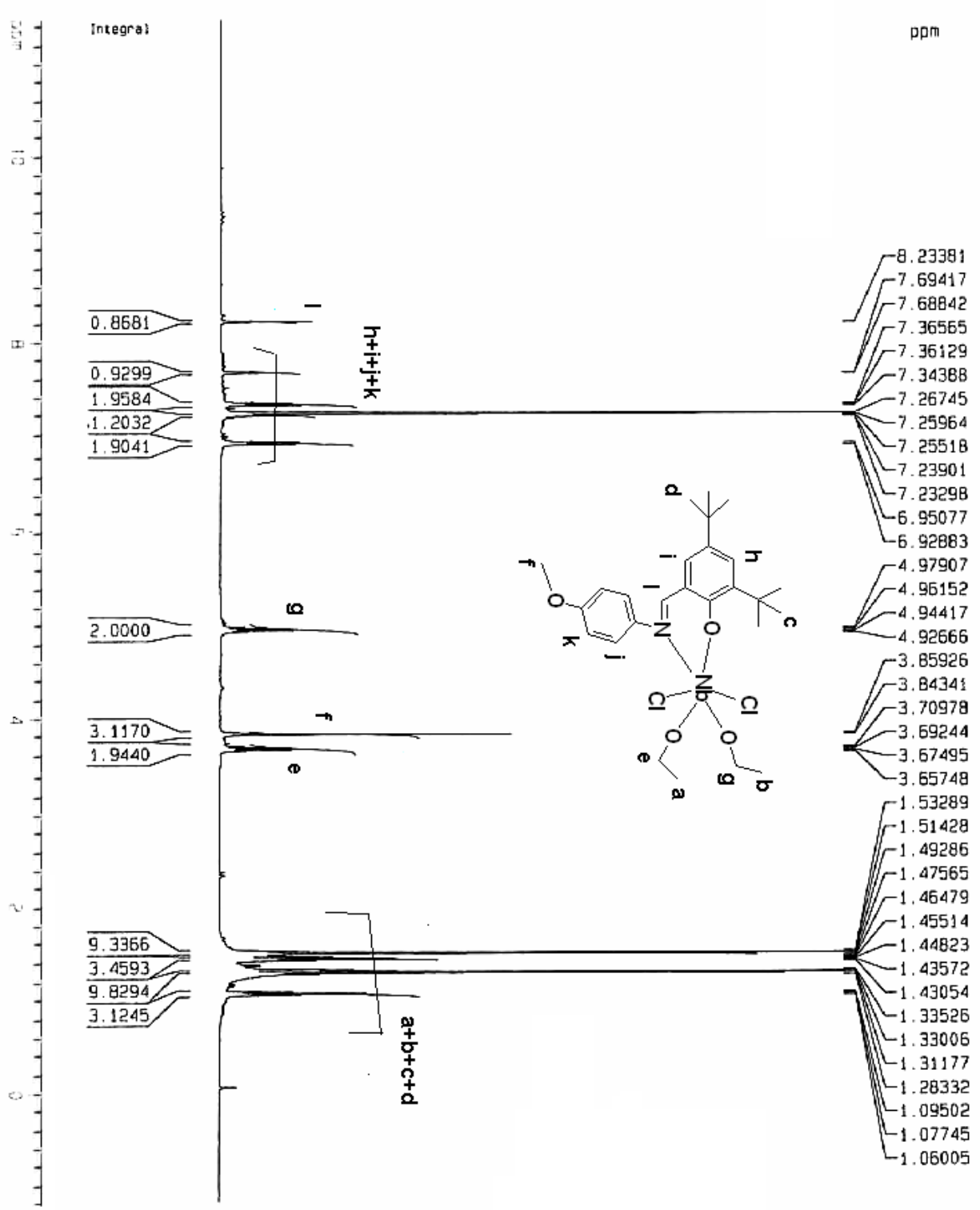

Fig. S1. ^{1}H NMR (400 MHz, $CDCl_3$) of Compound **1**

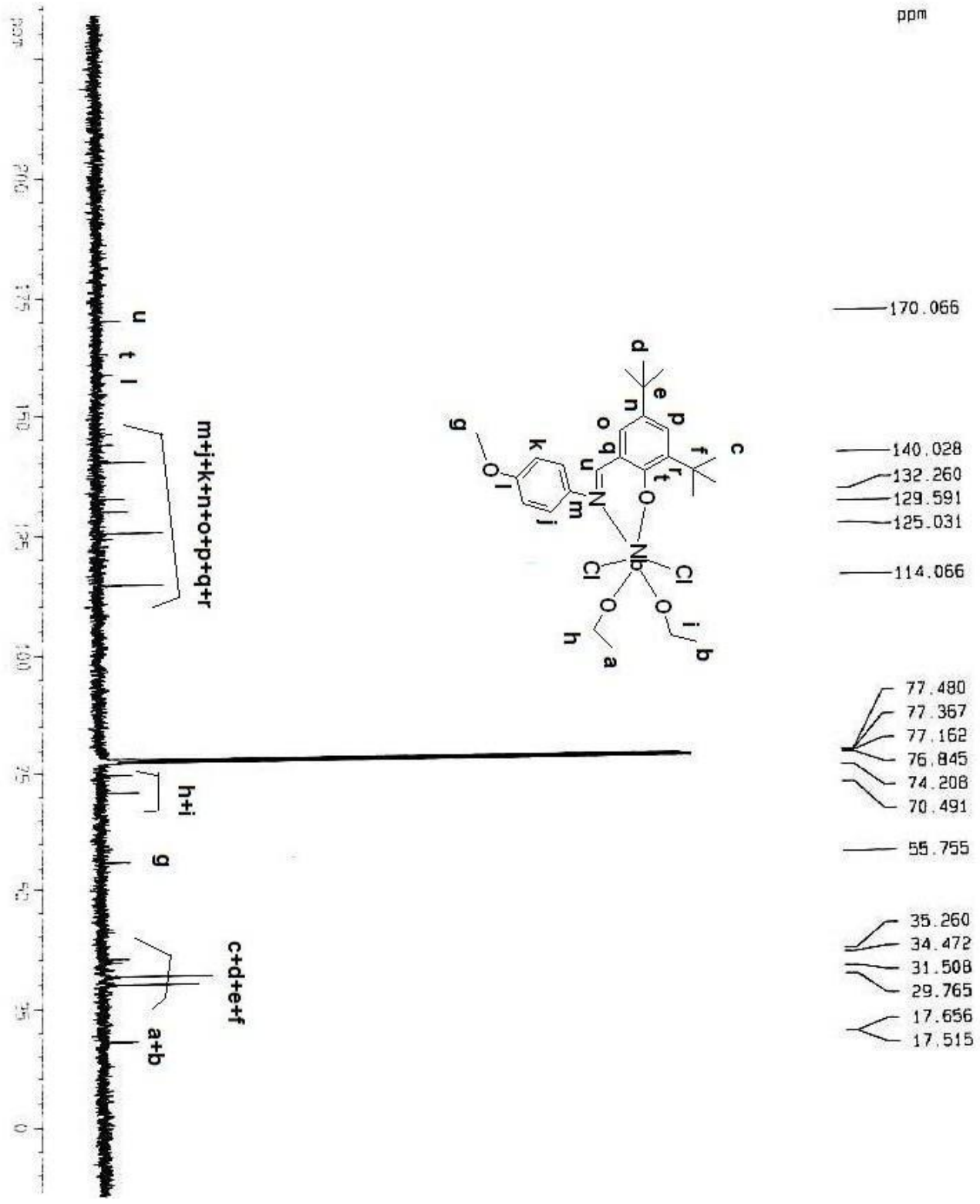

Fig. S2. ^{13}C NMR (100 MHz, $CDCl_3$) of Compound **1**

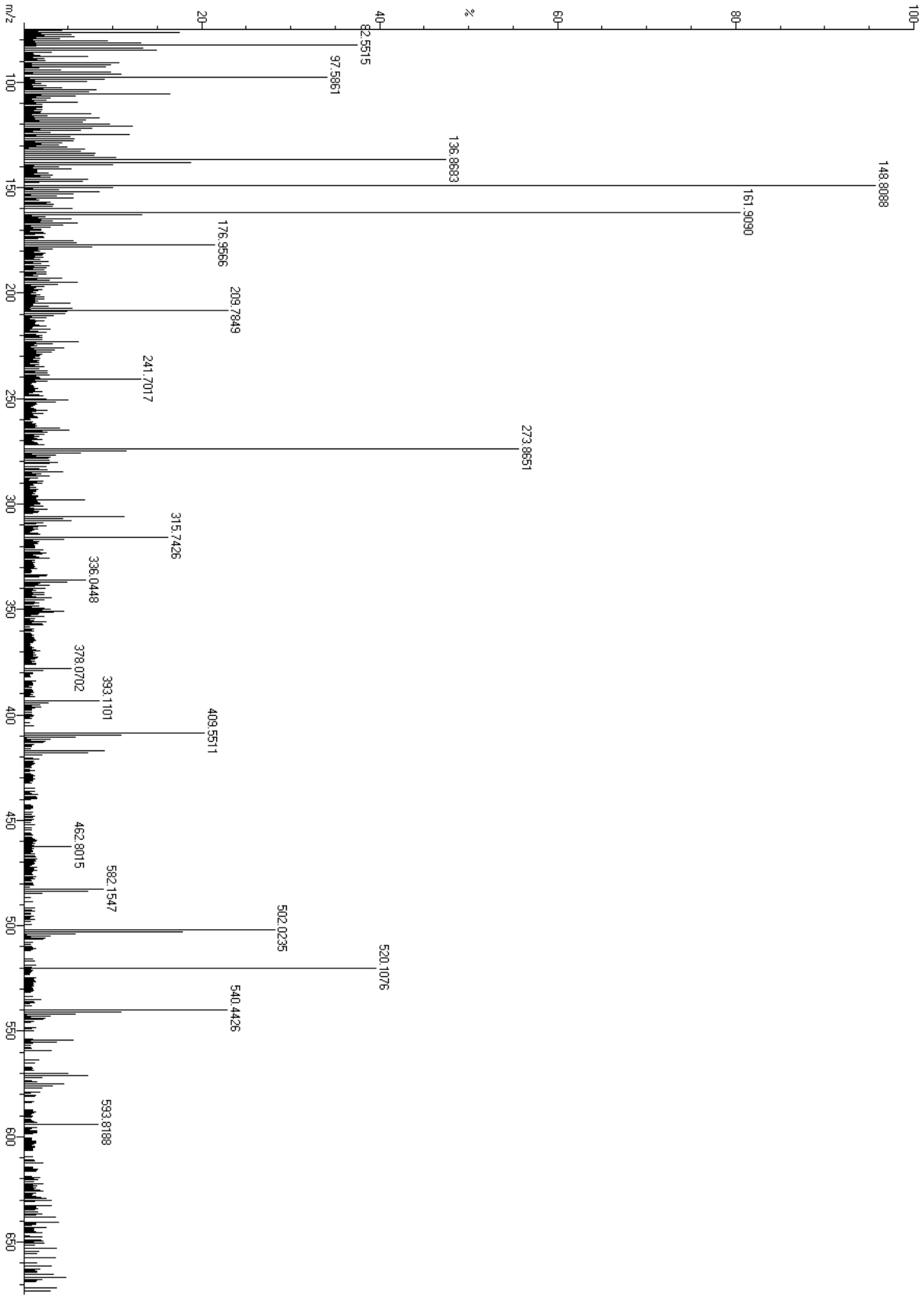

Fig. S3. ESI-Mass spectrum of Compound **1**

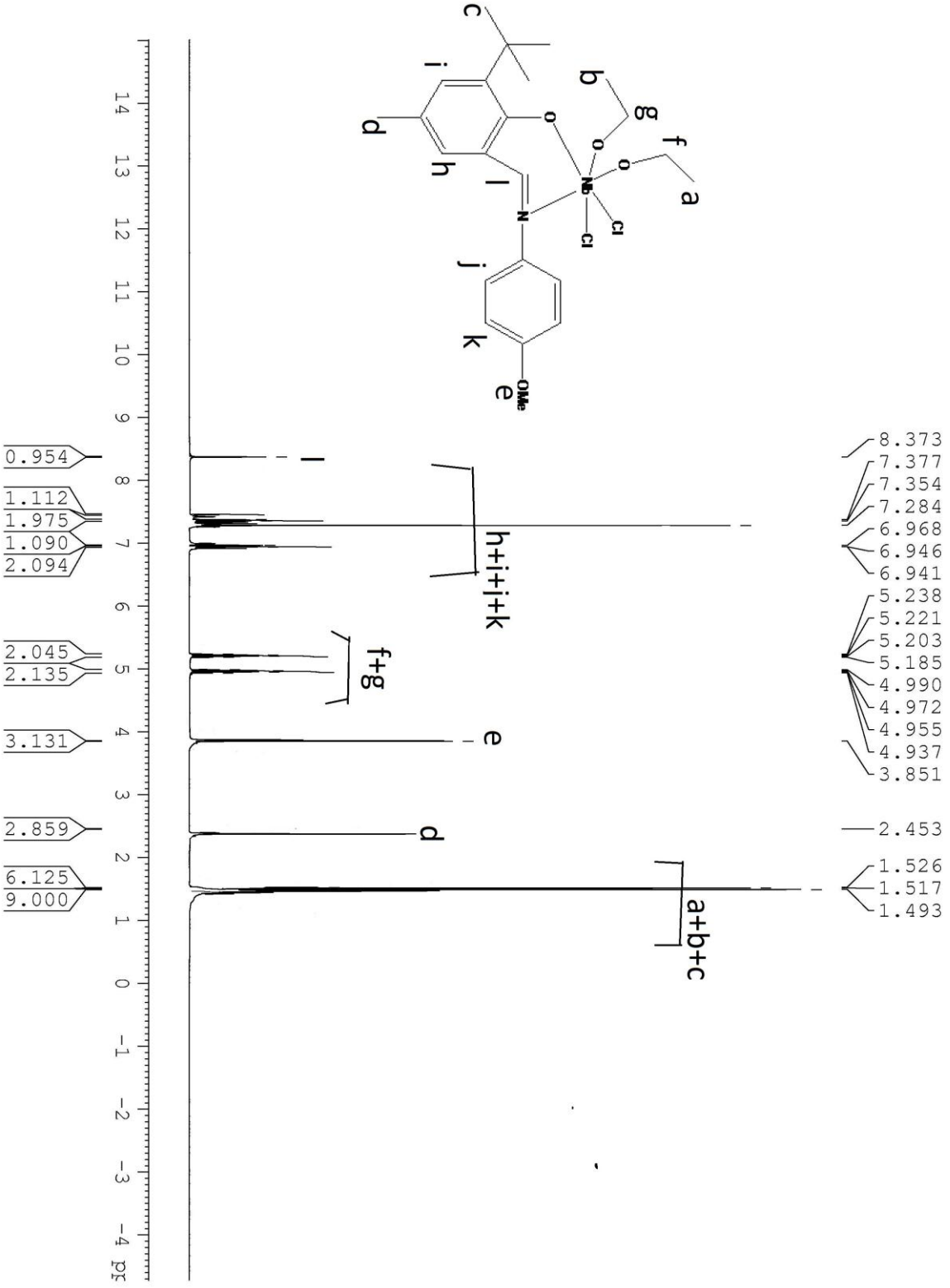

Fig. S4. ^{1}H NMR (400 MHz, $CDCl_3$) of Compound **2**

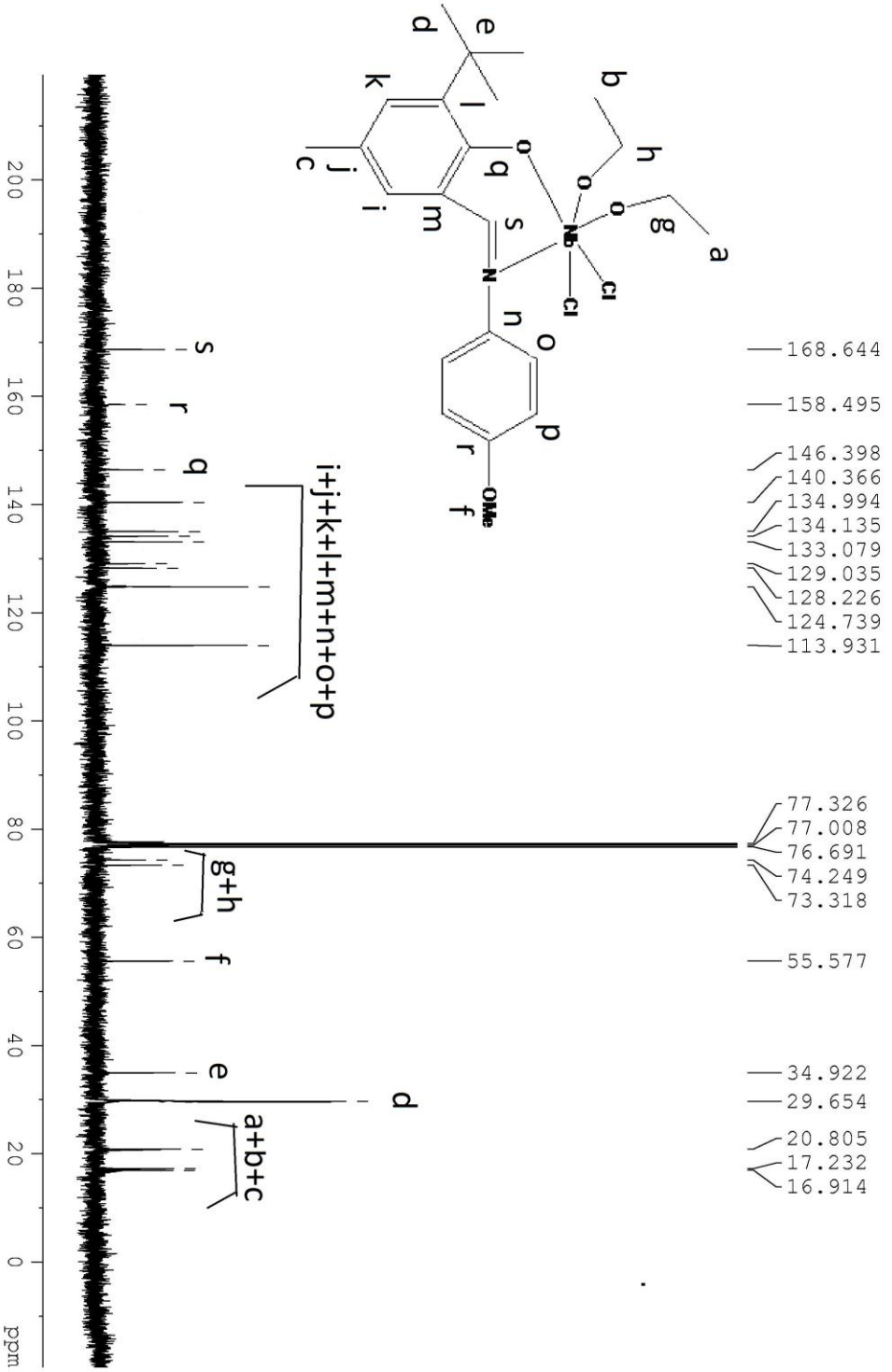

Fig. S5. ^{13}C NMR (100 MHz, $CDCl_3$) of Compound **2**

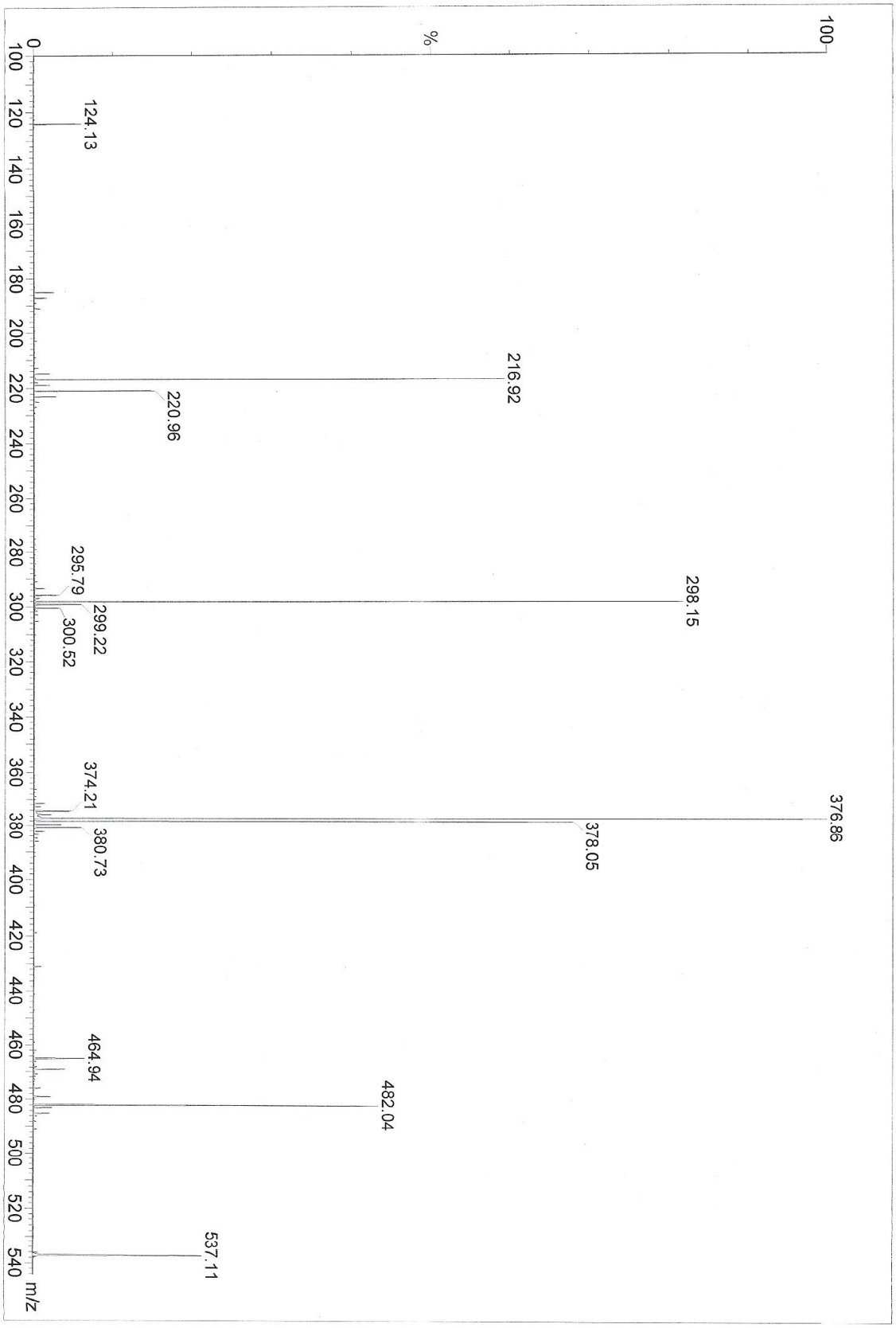

Fig. S6. ESI-Mass spectrum of Compound **2**

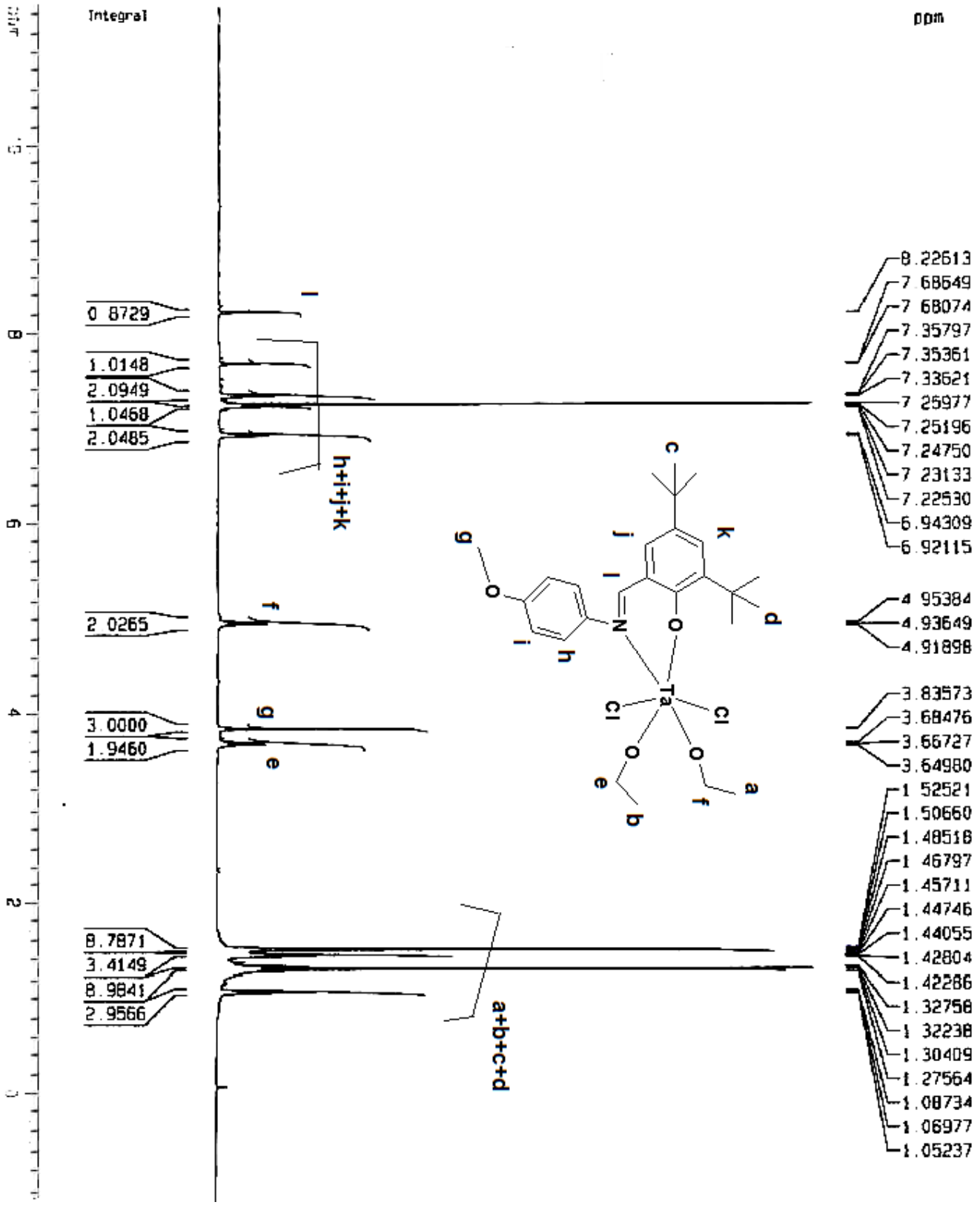

Fig. S7. ^{1}H NMR (400 MHz, $CDCl_3$) of Compound **3**

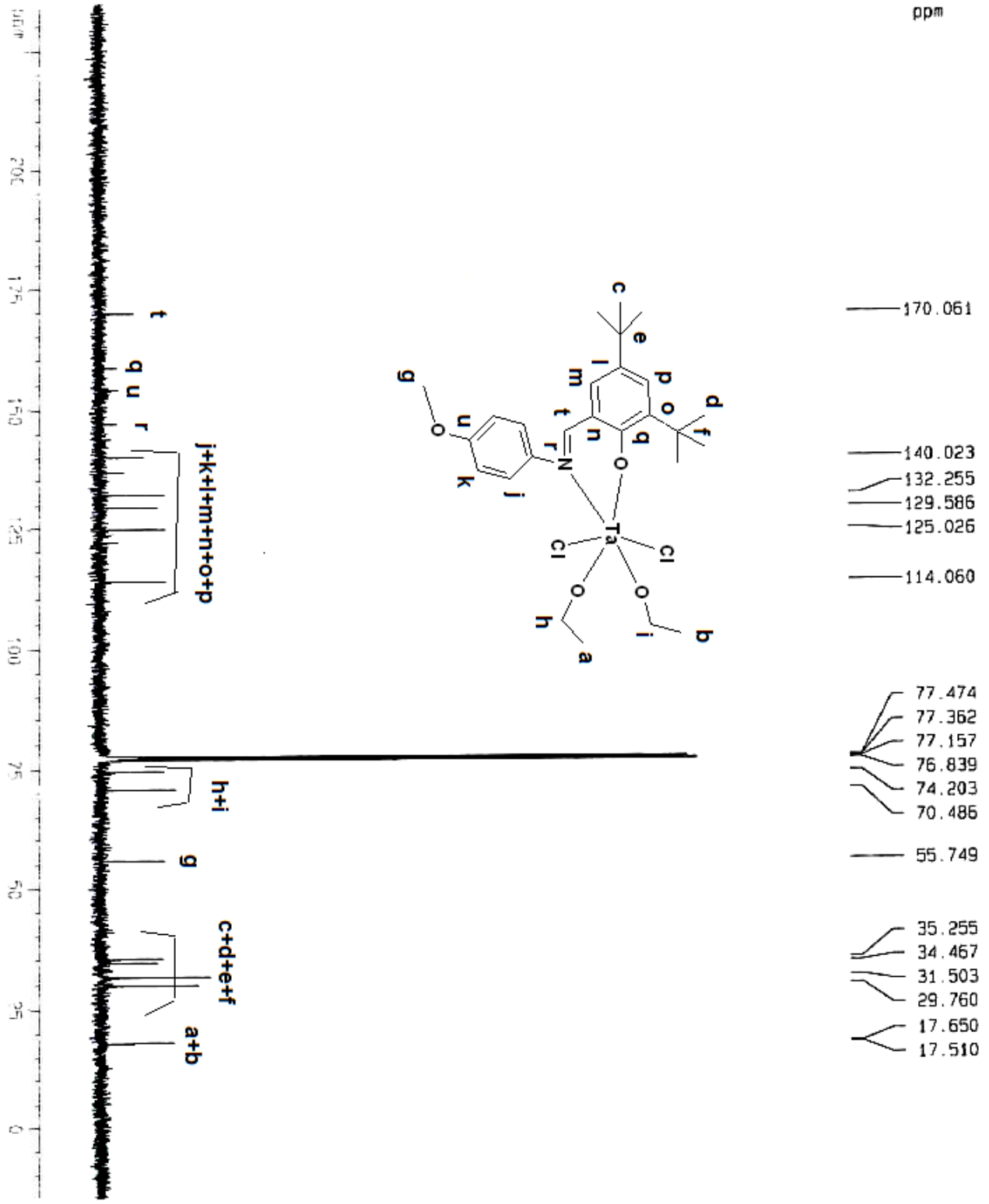

Fig. S8. ^{13}C NMR (100 MHz, $CDCl_3$) of Compound **3**

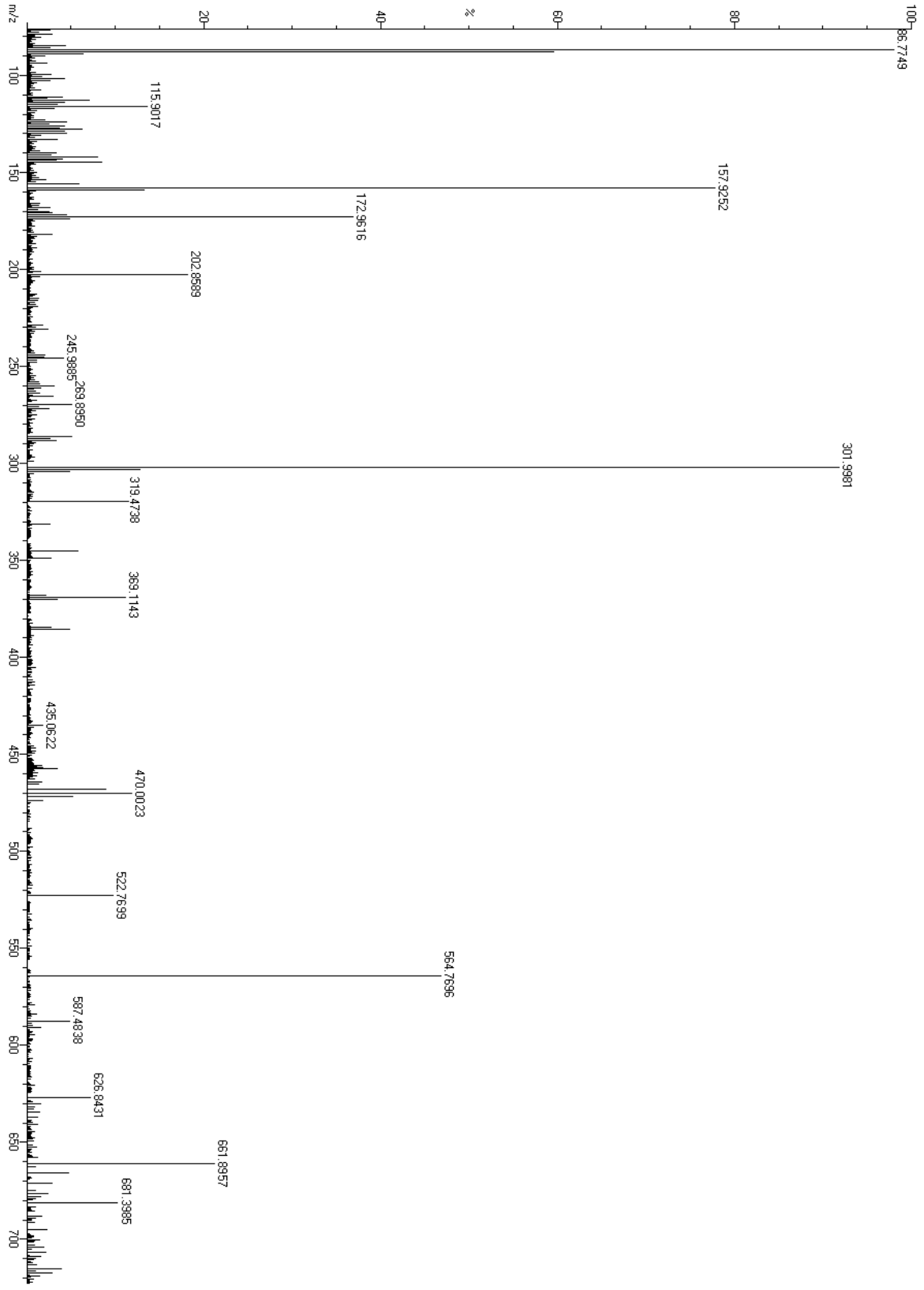

Fig. S9. ESI-Mass spectrum of Compound **3**

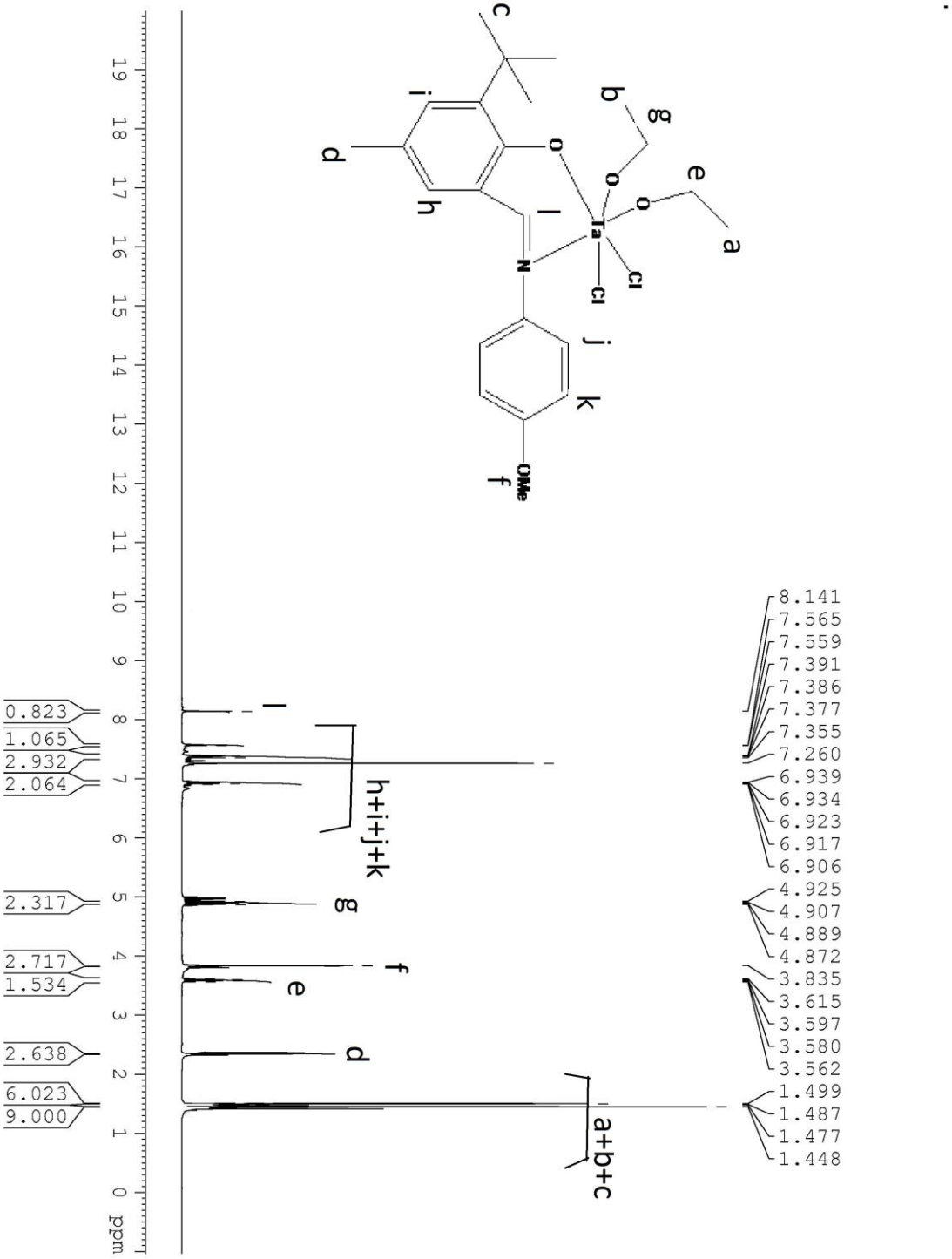

Fig. S10. ^{1}H NMR (400 MHz, $CDCl_3$) of Compound **4**

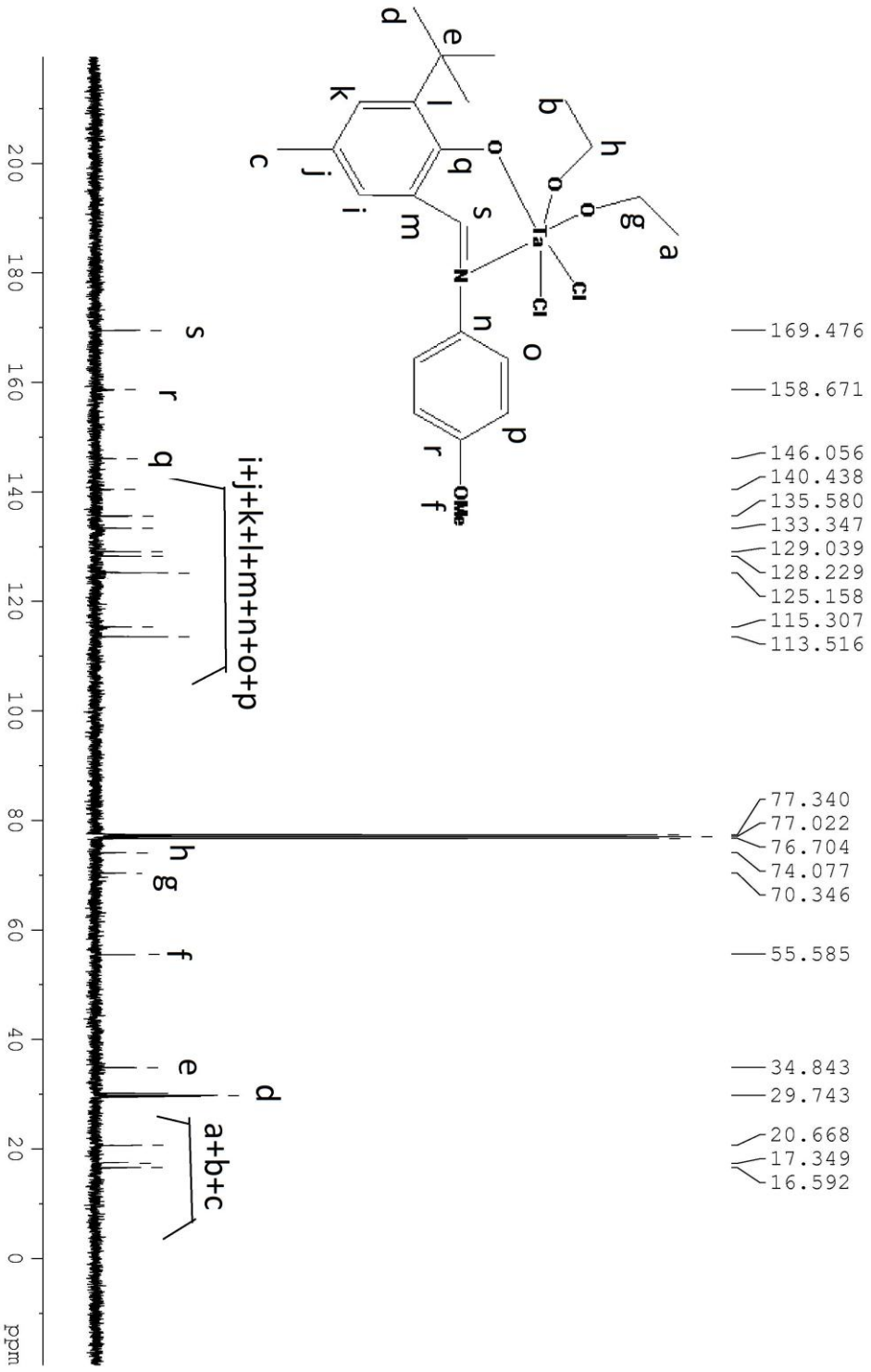

Fig. S11. ^{13}C NMR (100 MHz, $CDCl_3$) of Compound **4**

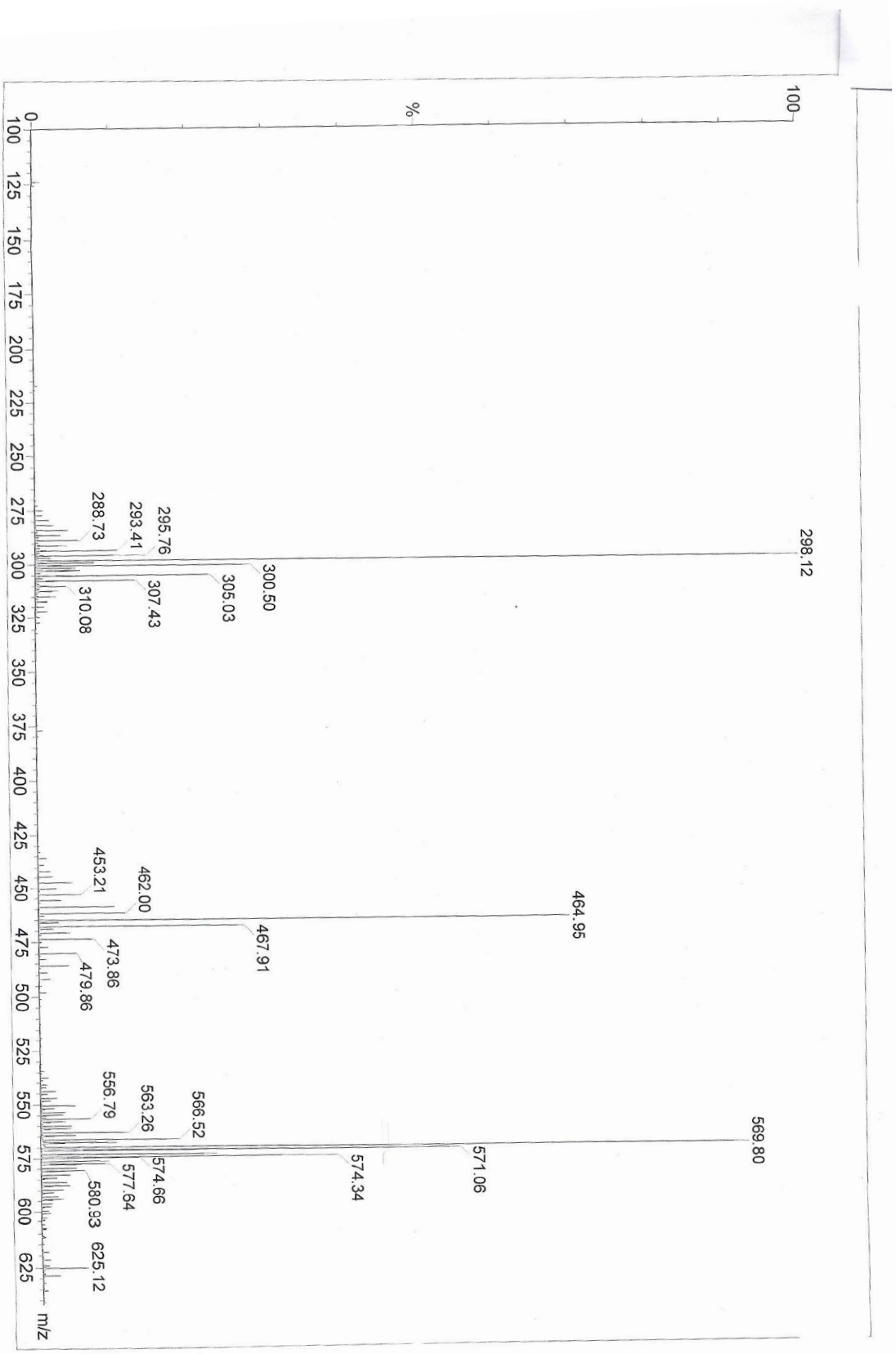

Fig. S12. ESI-Mass spectrum of Compound **4**

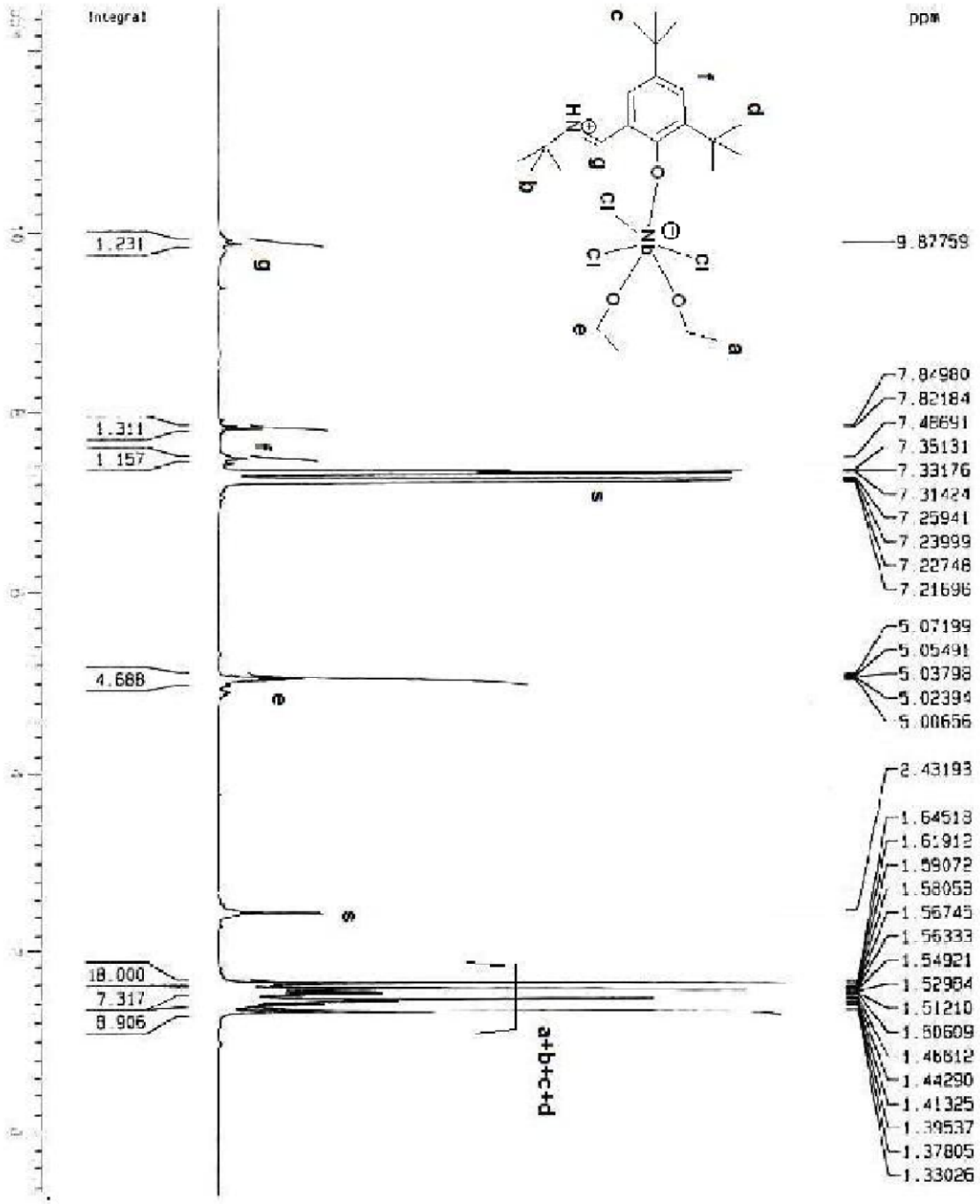

Fig. S13. ^{1}H NMR (400 MHz, $CDCl_3$) of Compound **5**

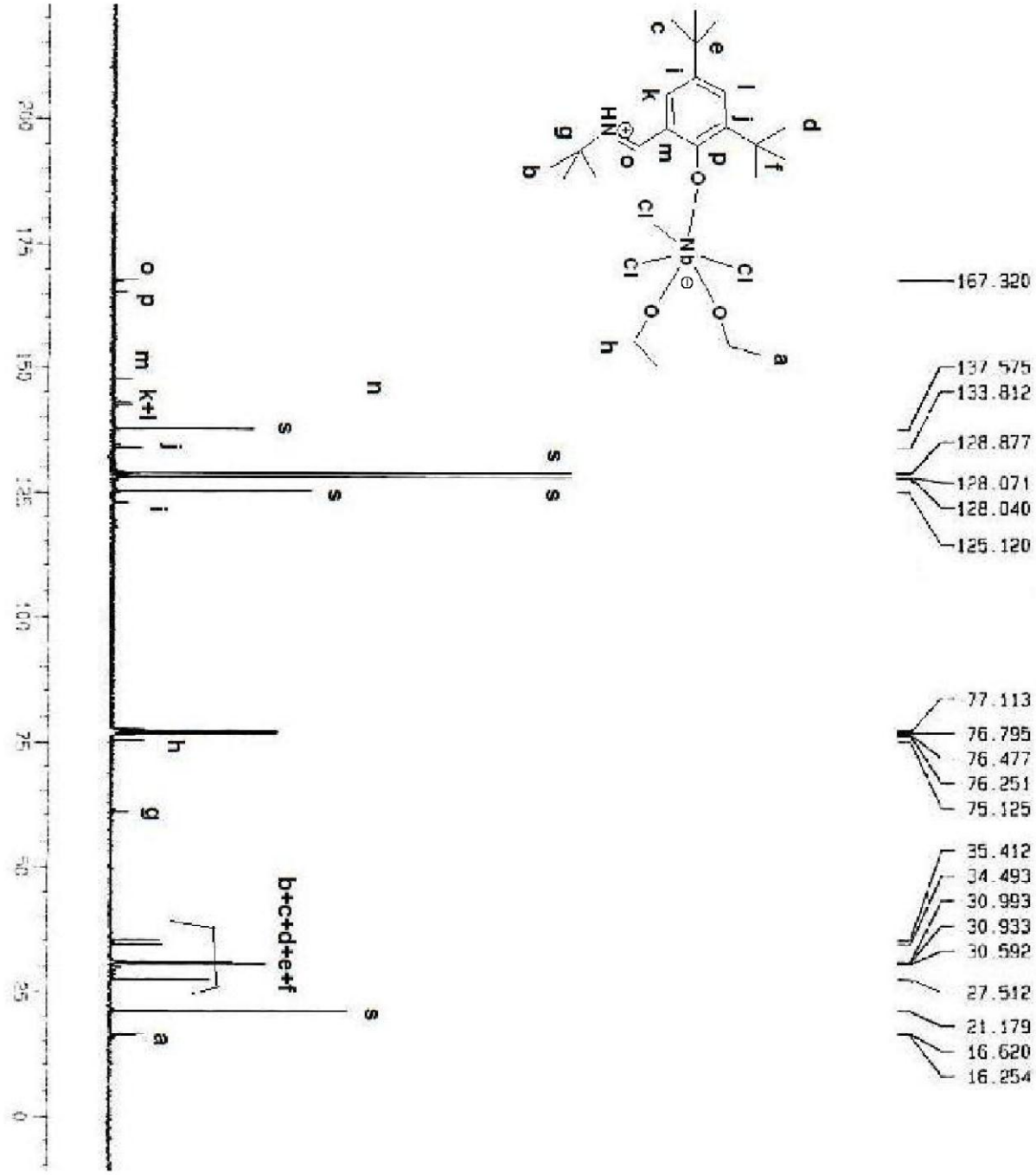

Fig. S14. ^{13}C NMR (100 MHz, $CDCl_3$) of Compound **5**

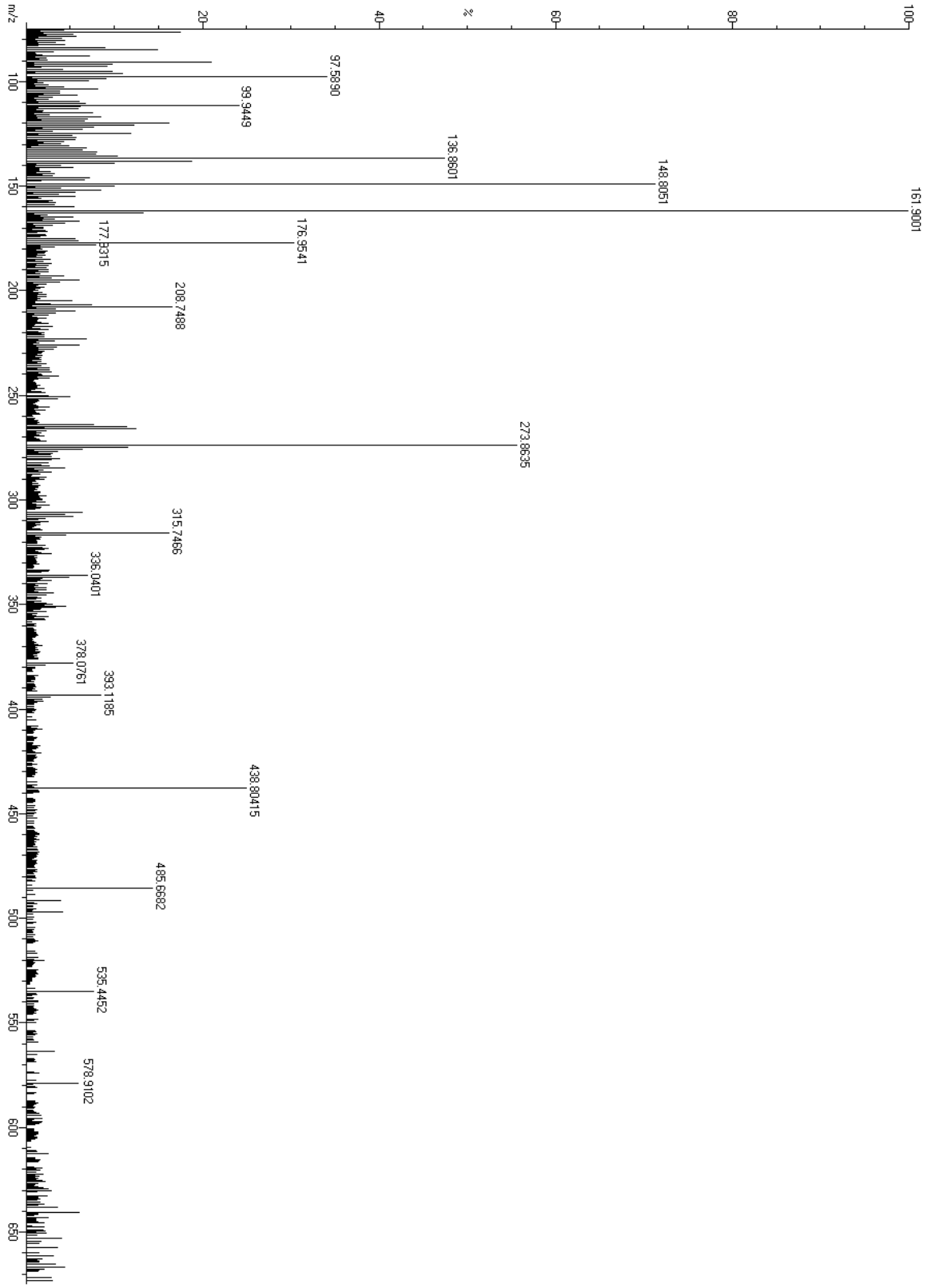

Fig. S15. ESI-Mass spectrum of Compound **5**

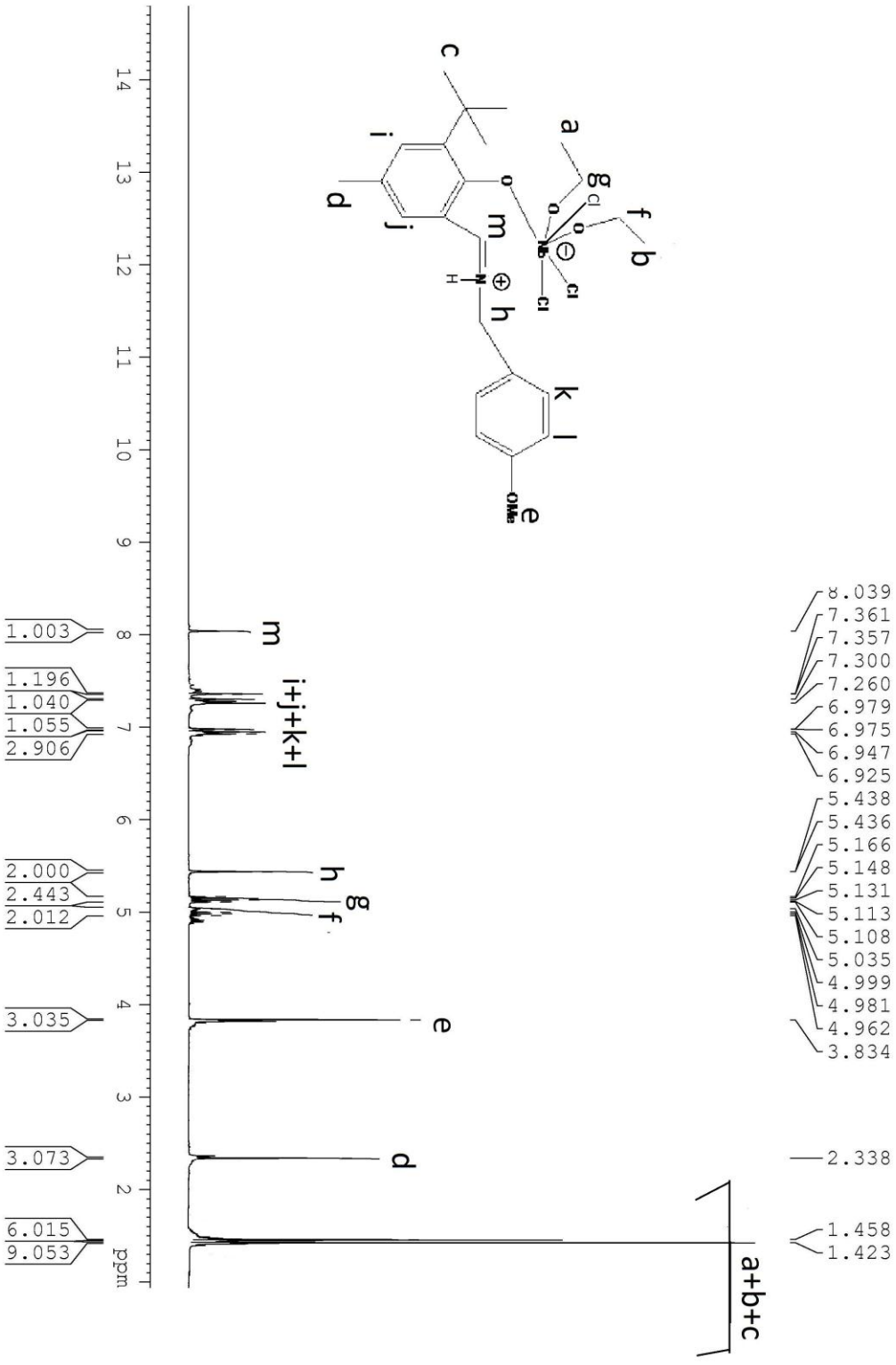

Fig. S16. ^{1}H NMR (400 MHz, $CDCl_3$) of Compound **6**

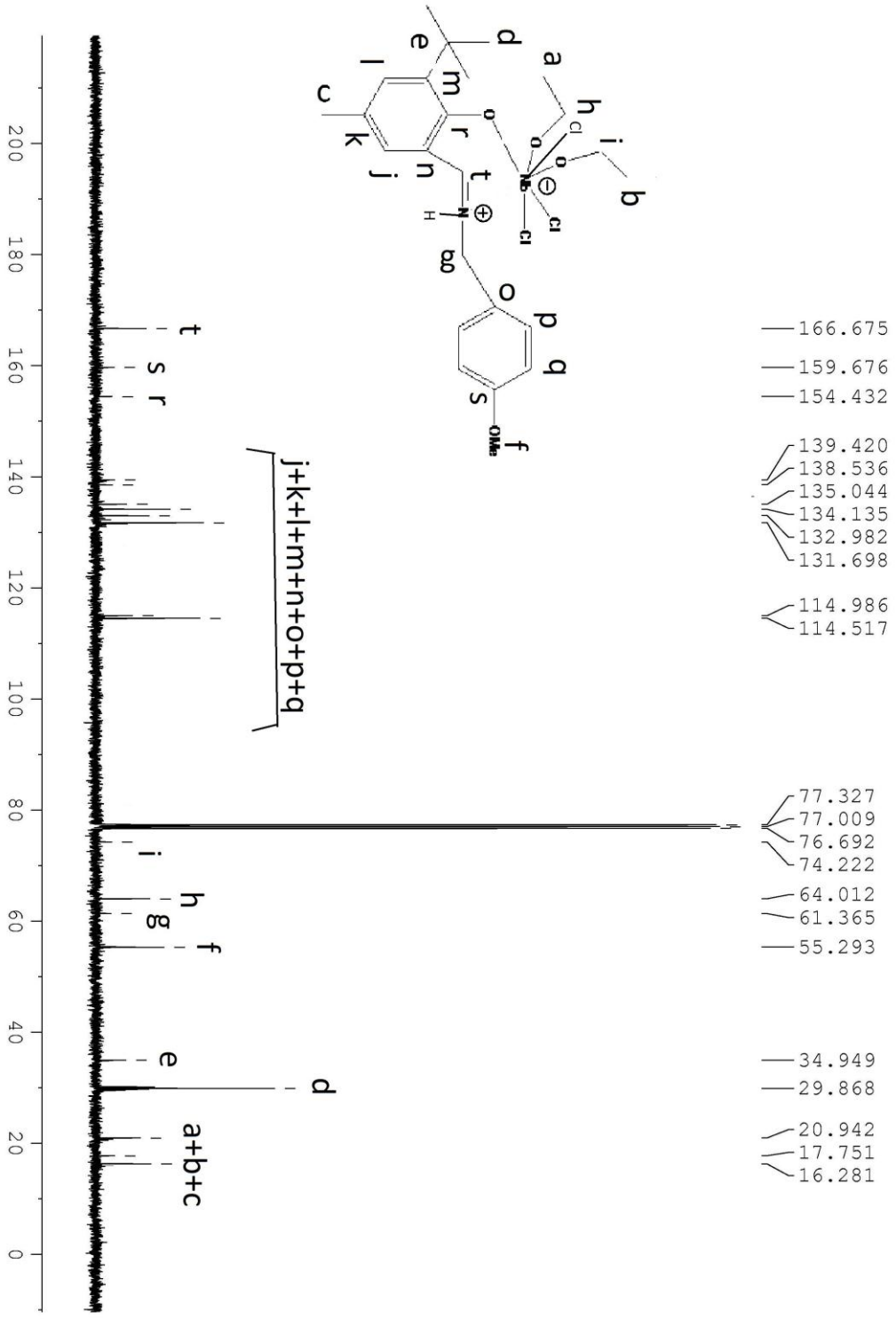

Fig. S17. ^{13}C NMR (100 MHz, $CDCl_3$) of Compound **6**

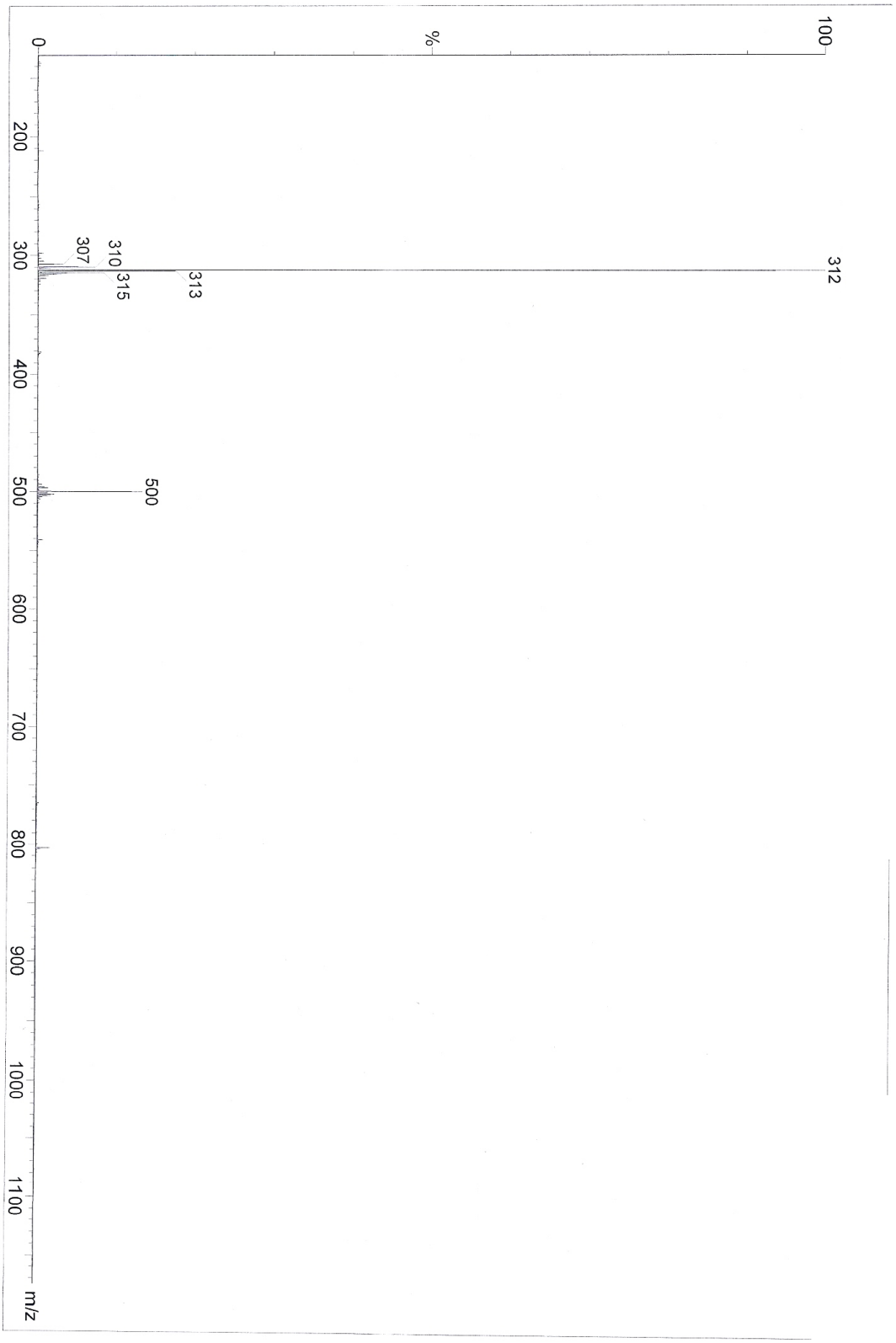

Fig. S18. ESI-Mass spectrum of Compound **6**

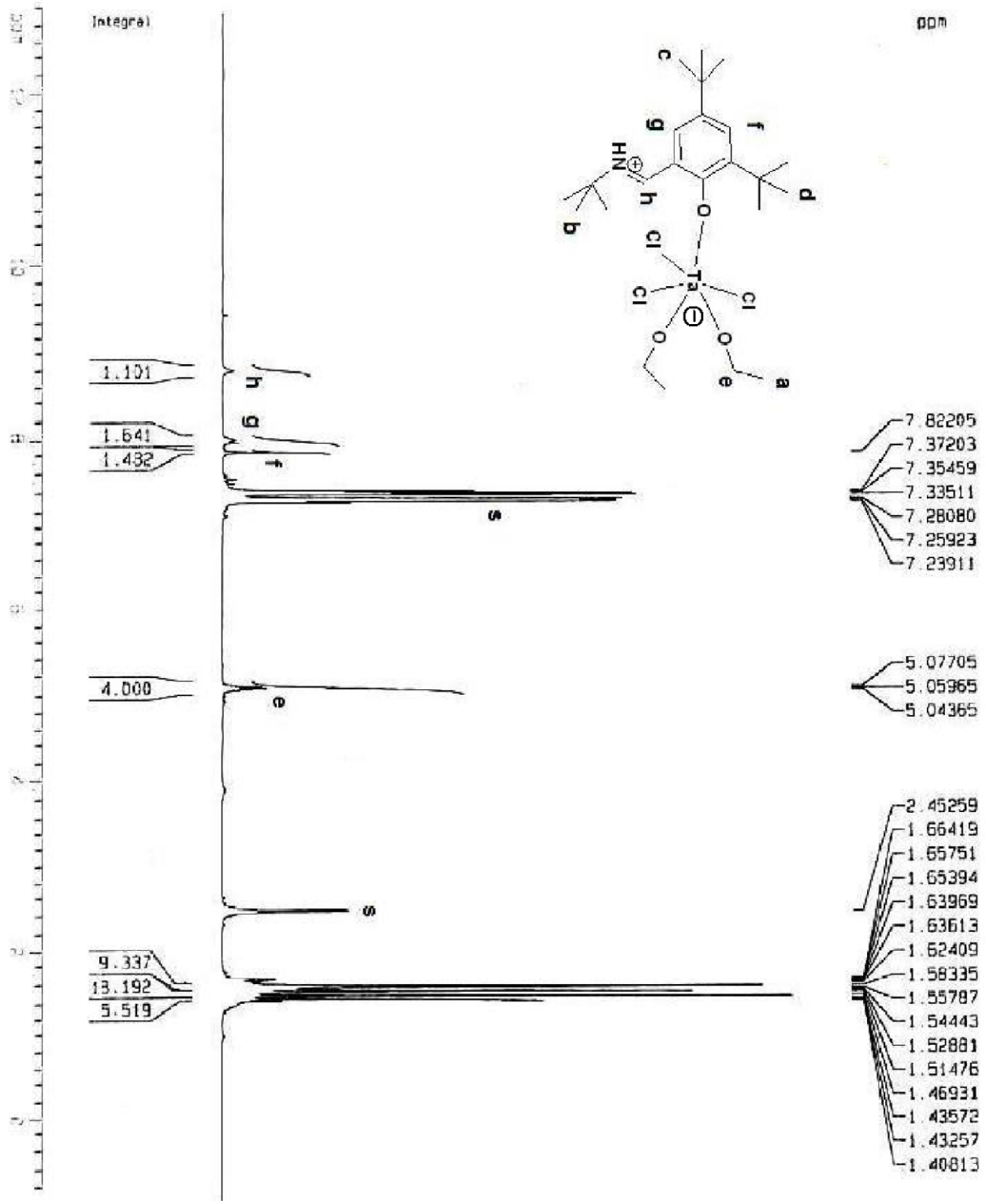

Fig. S19. ^{1}H NMR (400 MHz, $CDCl_3$) of Compound **7**

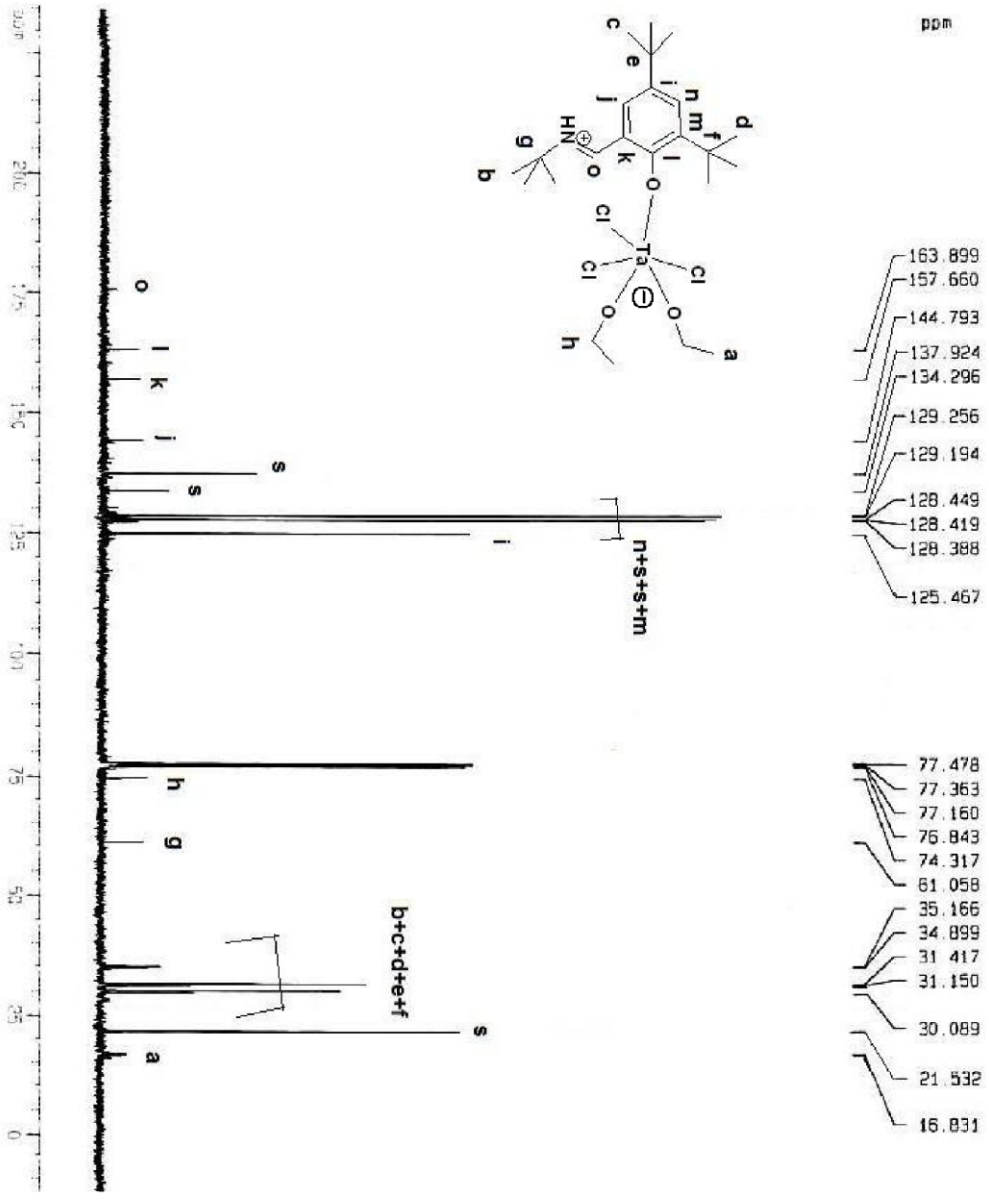

Fig. S20. ^{13}C NMR (100 MHz, $CDCl_3$) of Compound **7**

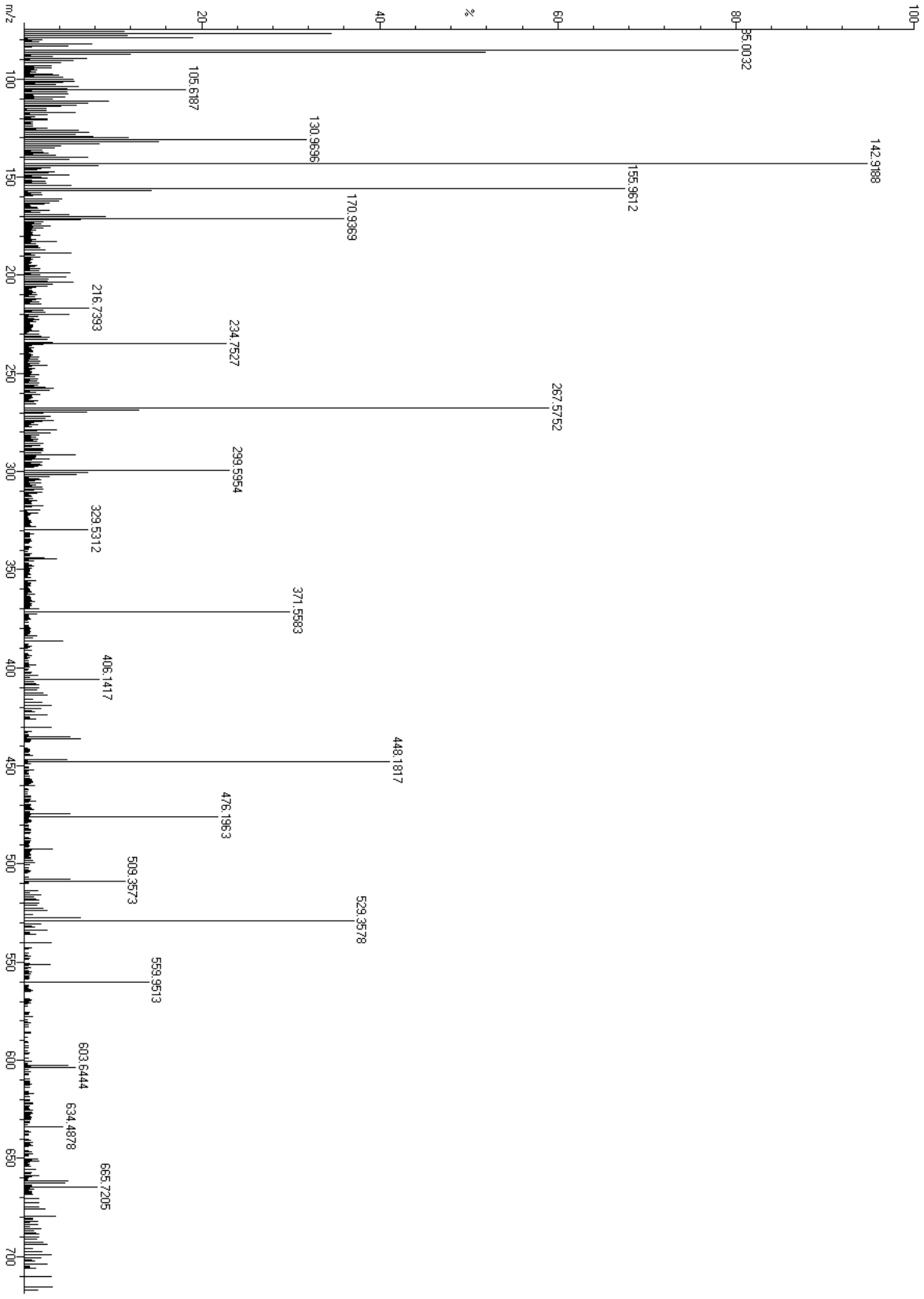

Fig. S21. ESI-Mass Spectrum of Compound **7**

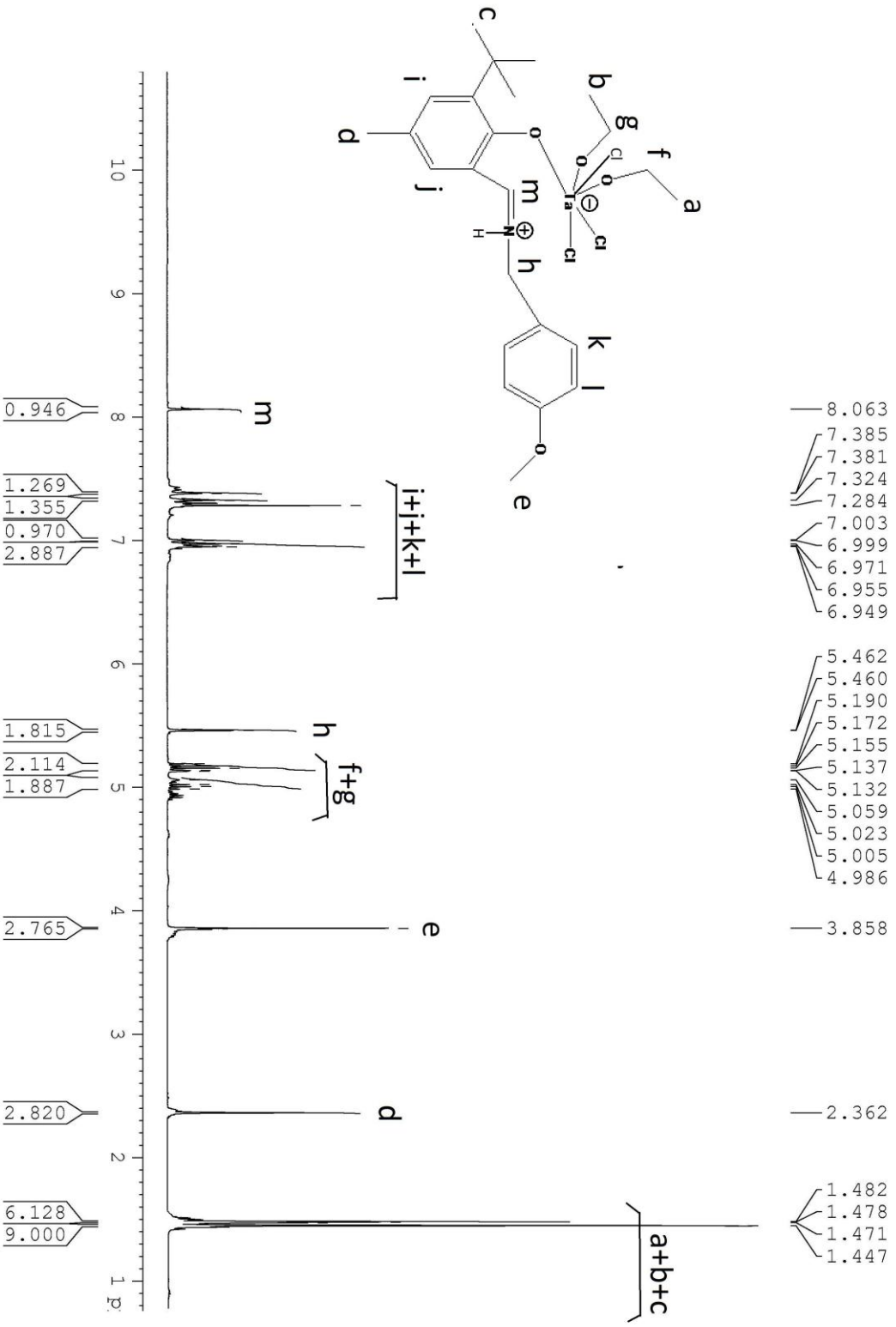

Fig. S22. ^{1}H NMR (400 MHz, $CDCl_3$) of Compound **8**

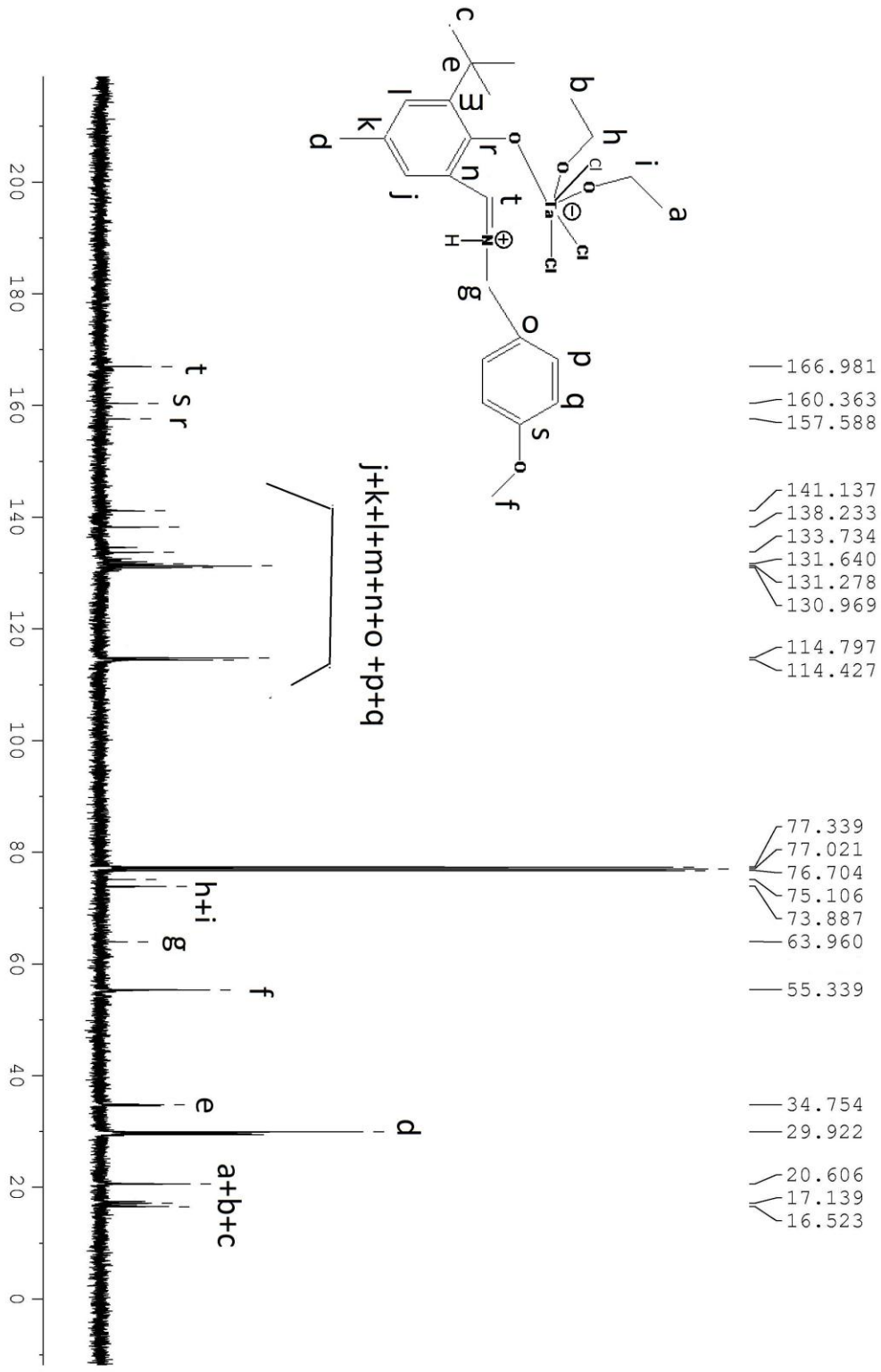

Fig. S23. ^{13}C NMR (100 MHz, $CDCl_3$) of Compound **8**

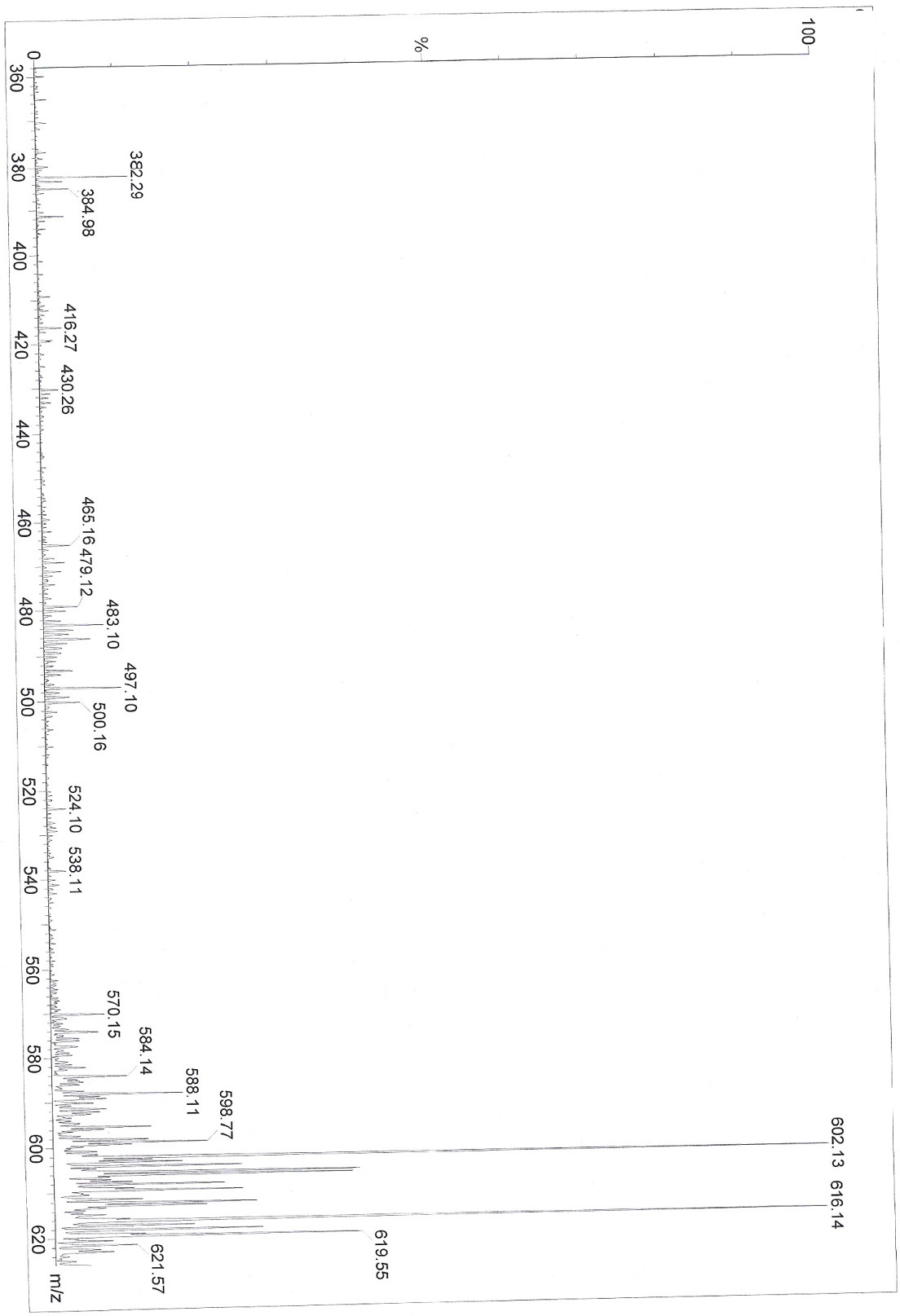

Fig. S24. ESI-Mass spectrum of Compound **8**

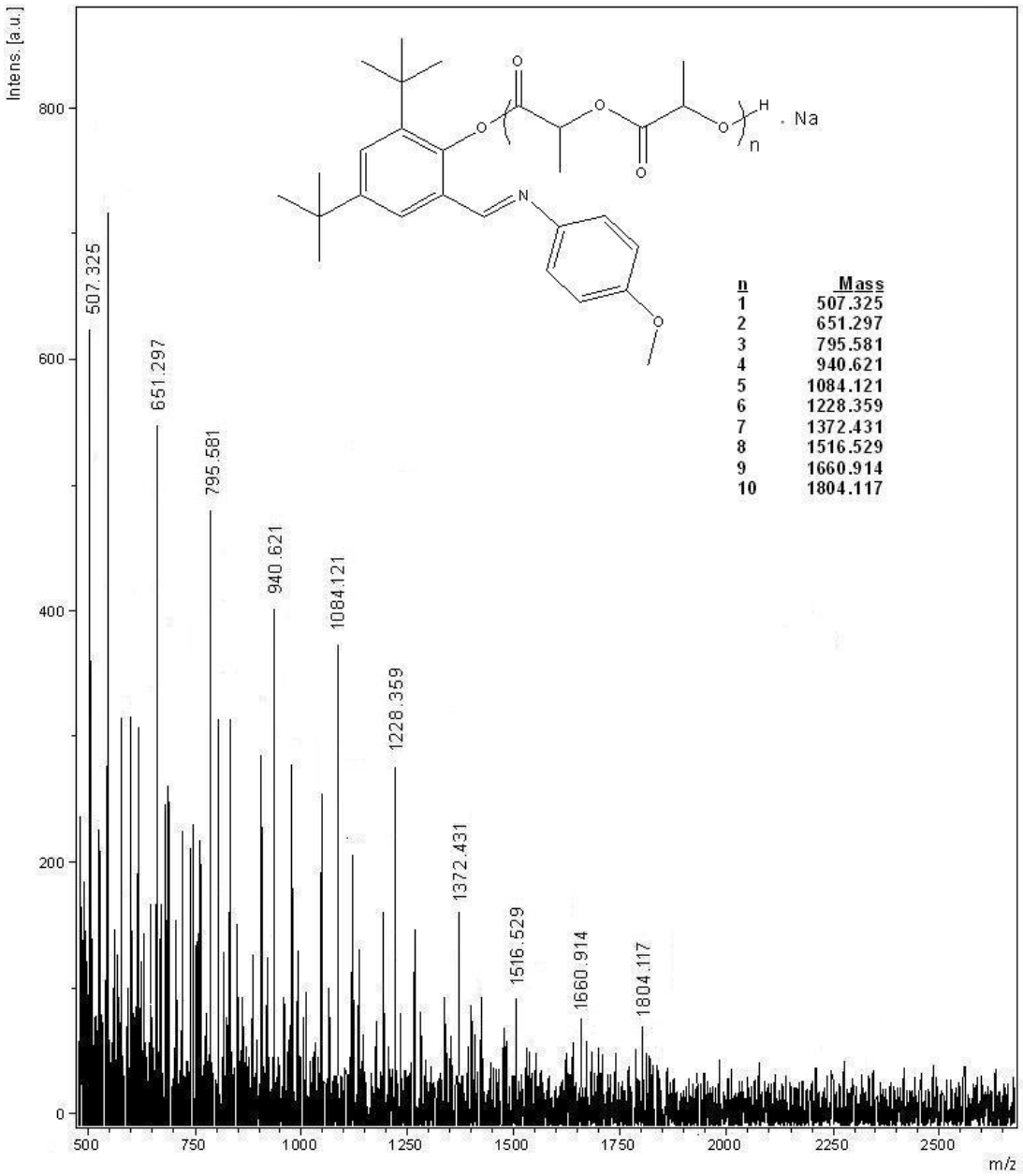

Fig. S25. MALDI-TOF of the crude product obtained from a reaction between *rac*-LA and **3** in 10:1 ratio

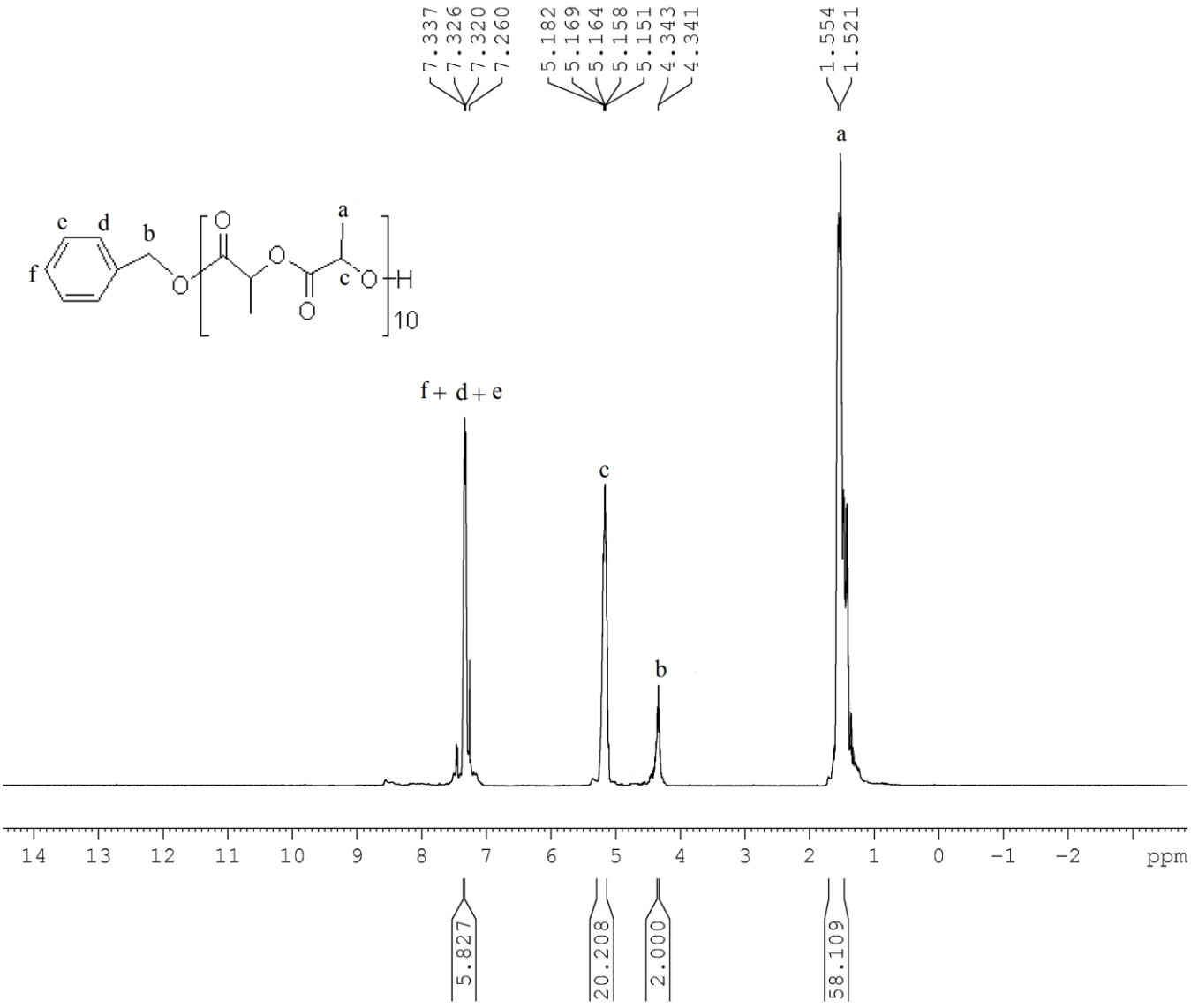

Fig. S26. ^{1}H NMR spectrum of the crude product obtained from a reaction between *rac*-LA and **3** in the presence of BnOH in ratio 10:1:2.

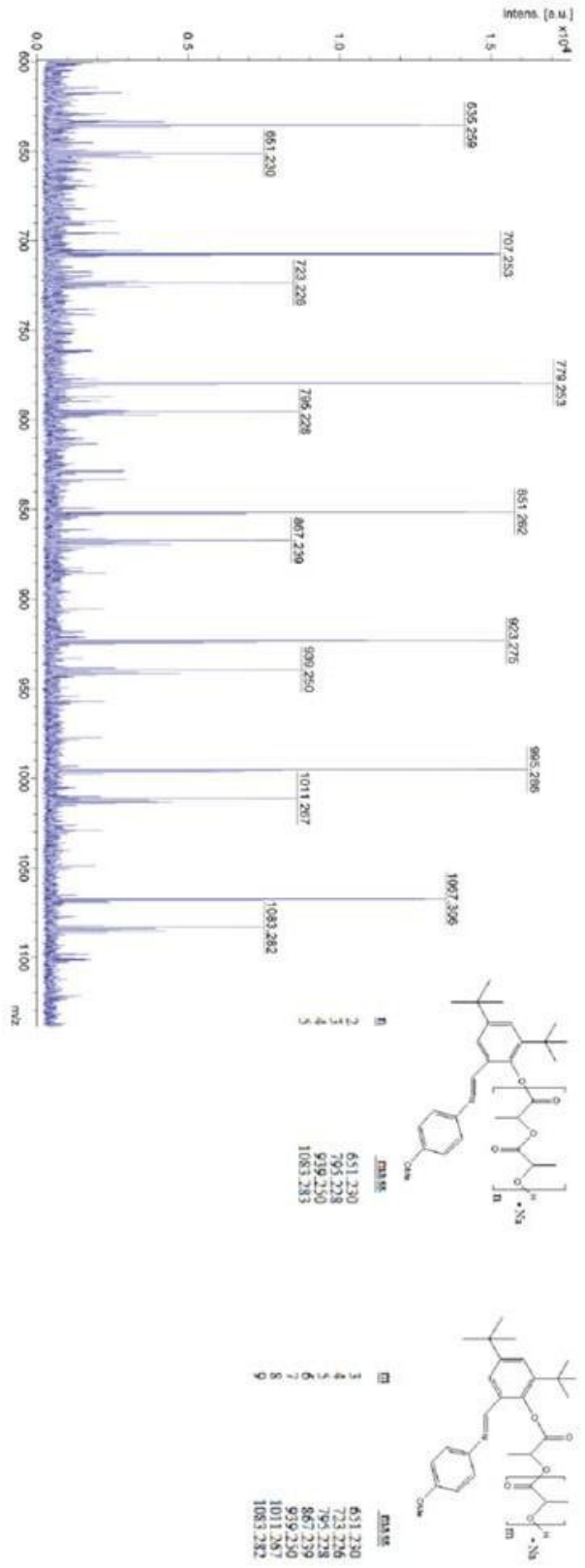

Fig. S27. Expansion of **Figure 8** in the manuscript

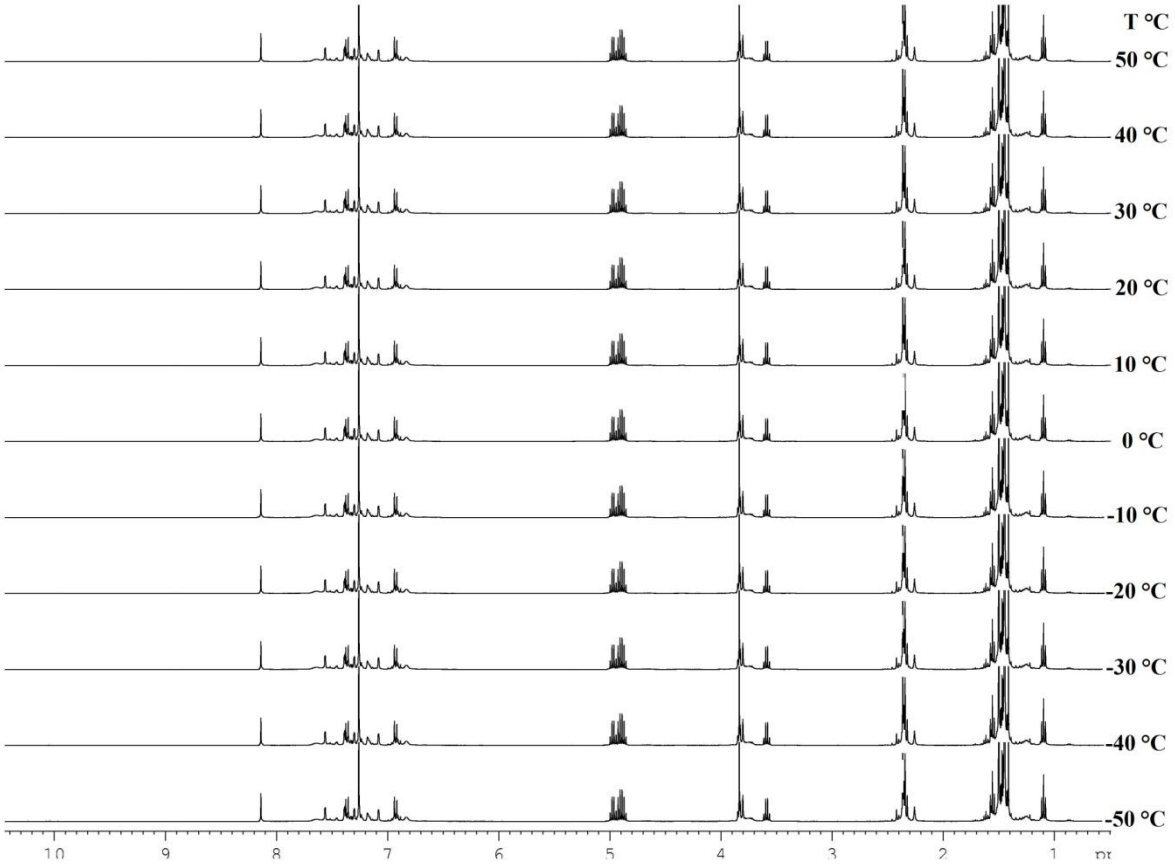

Fig. S28. Variable temperature ^{1}H NMR (400 MHz, $CDCl_3$) of **2**.

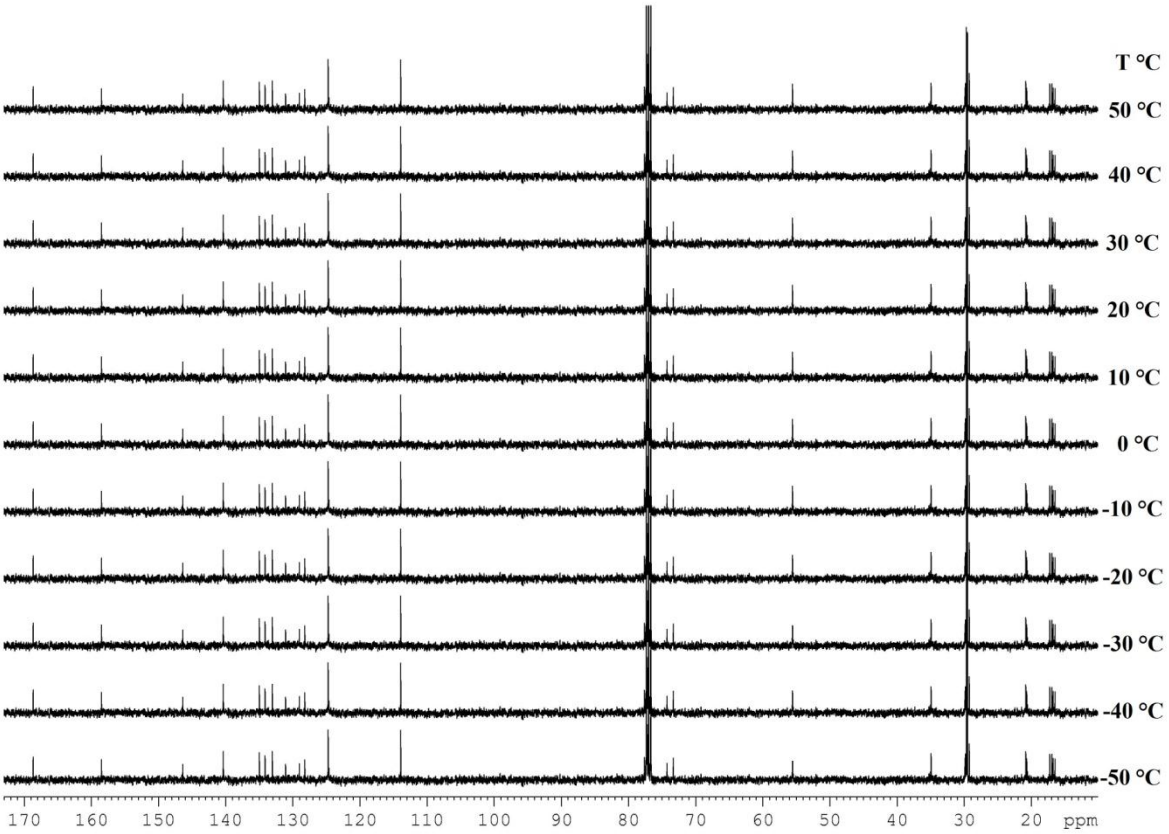

Fig. S29. Variable temperature ^{13}C NMR (100 MHz, $CDCl_3$) of **2**.

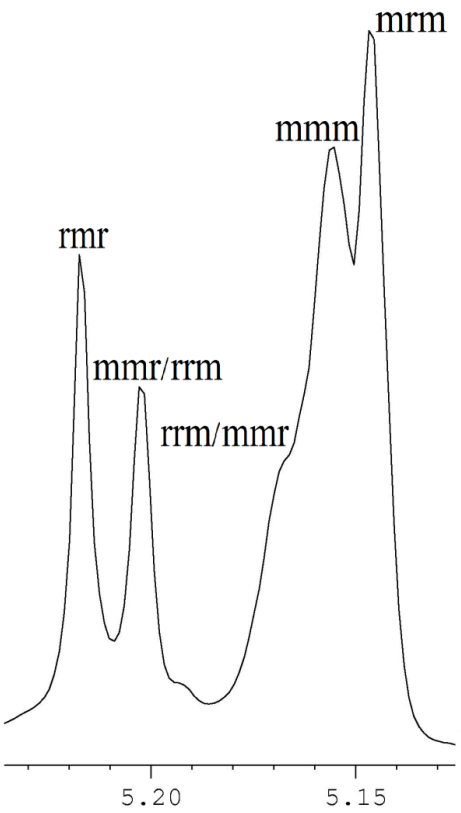

Fig. S30. Homonuclear decoupled ^{1}H NMR spectrum of *rac*-LA using **2** in $CDCl_3$.