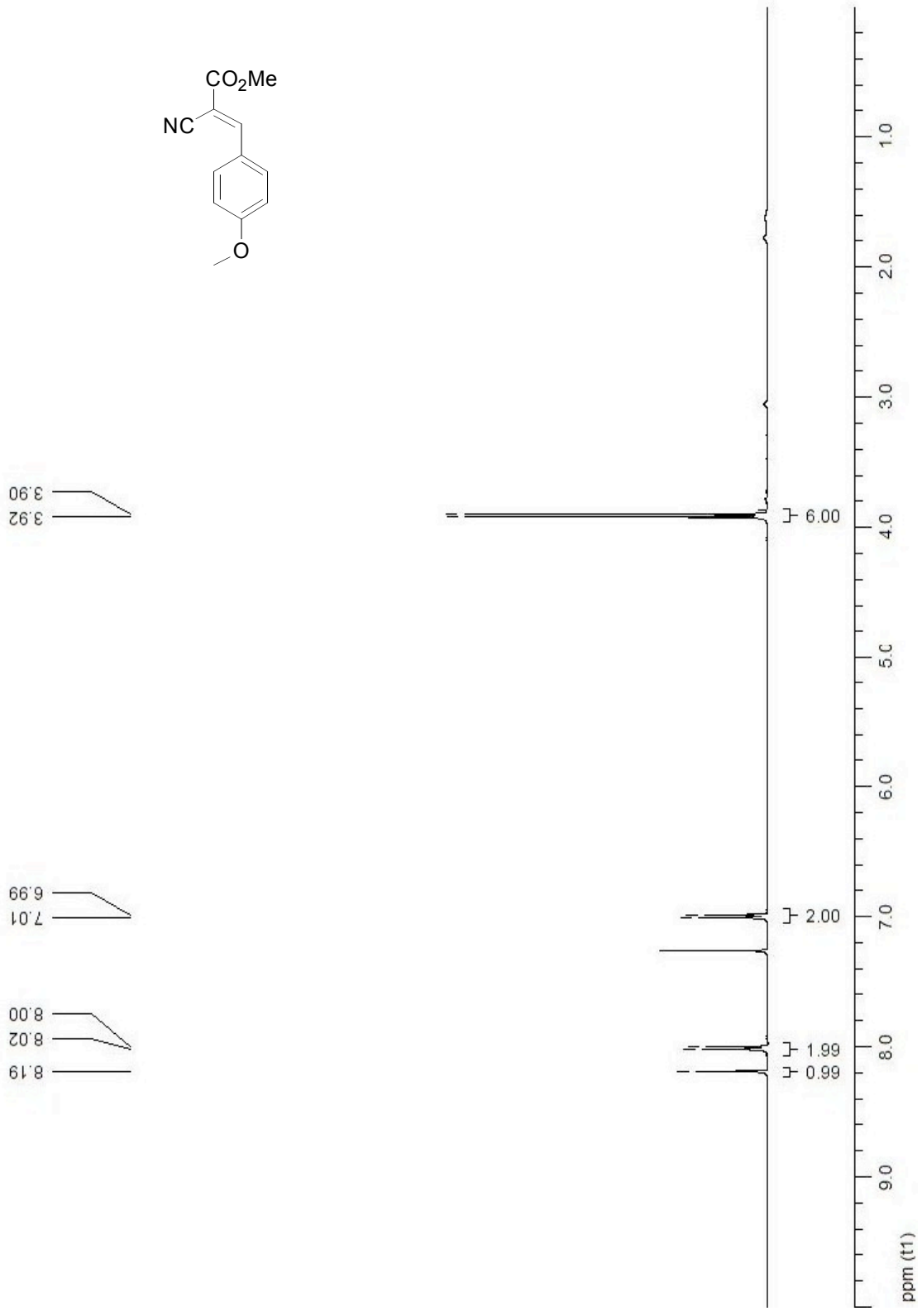
Molecular rotors: Synthesis and evaluation as viscosity sensors

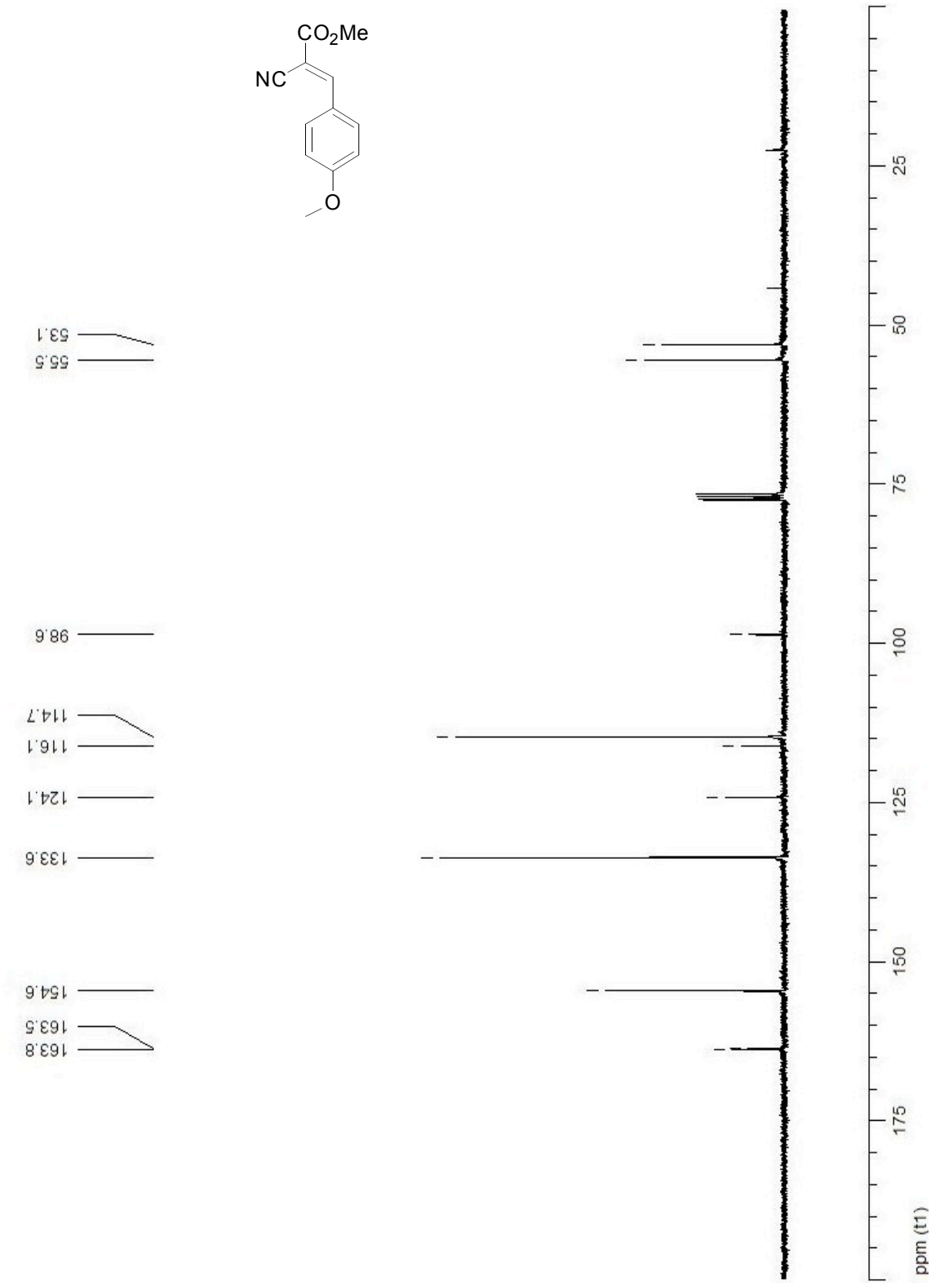
Jeyanthy Sutharsan, Darcy Lichlyter, Nathan E. Wright, Marianna Dakanali, Mark A. Haidekker* and Emmanuel A. Theodorakis*

Supporting Information

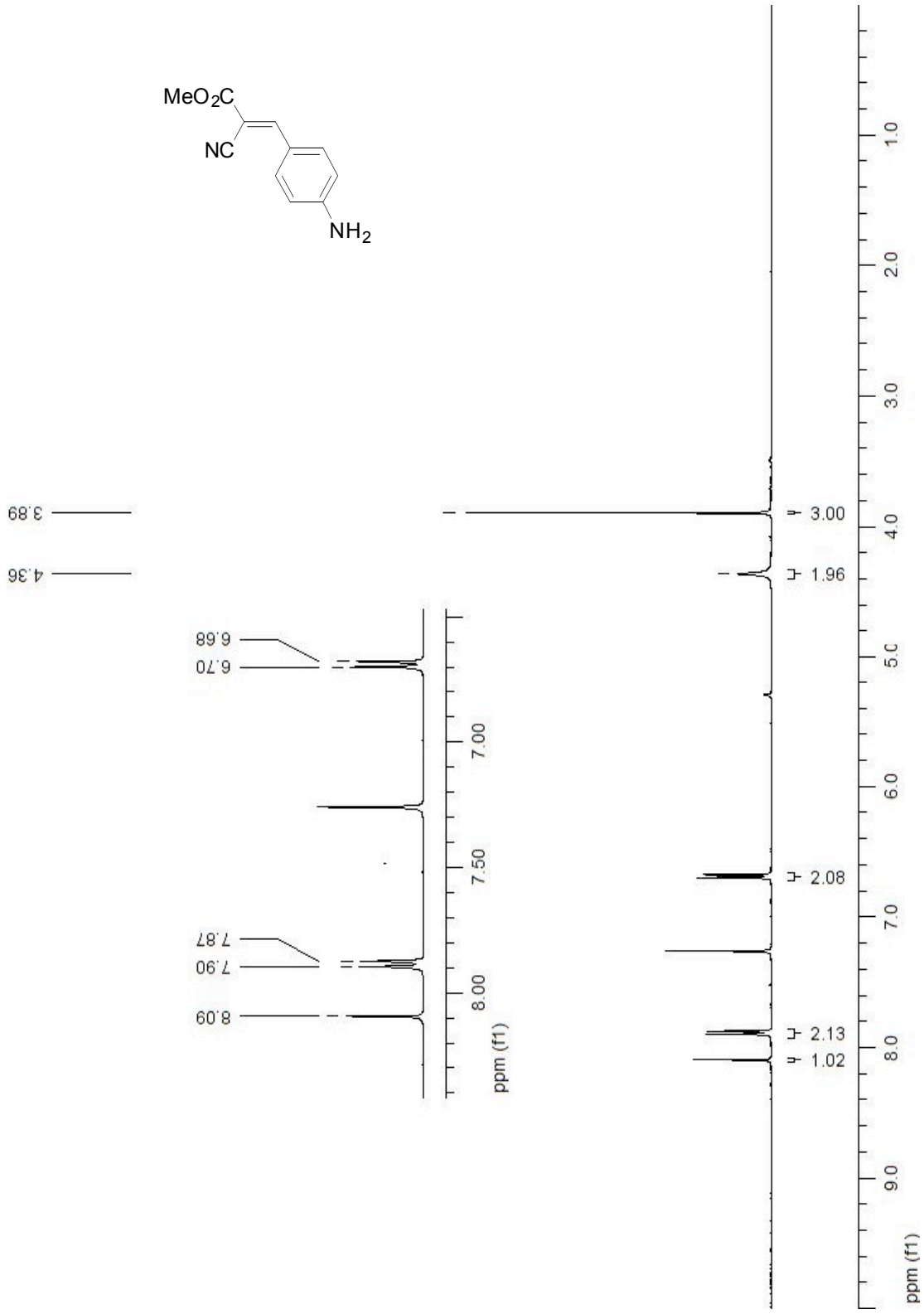
^{1}H and ^{13}C NMR spectra of compounds reported in this manuscript



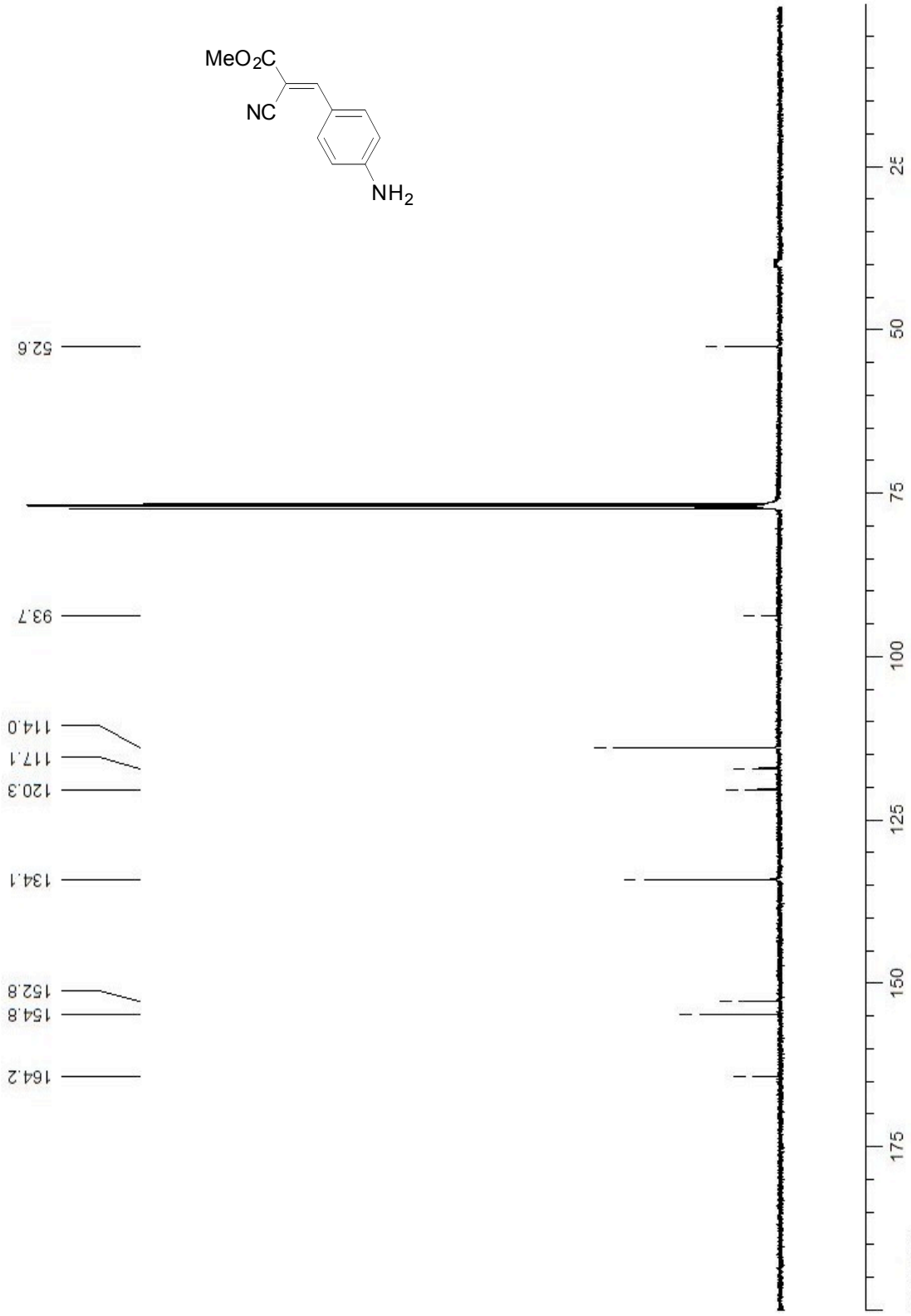
Spectrum 1. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5a**



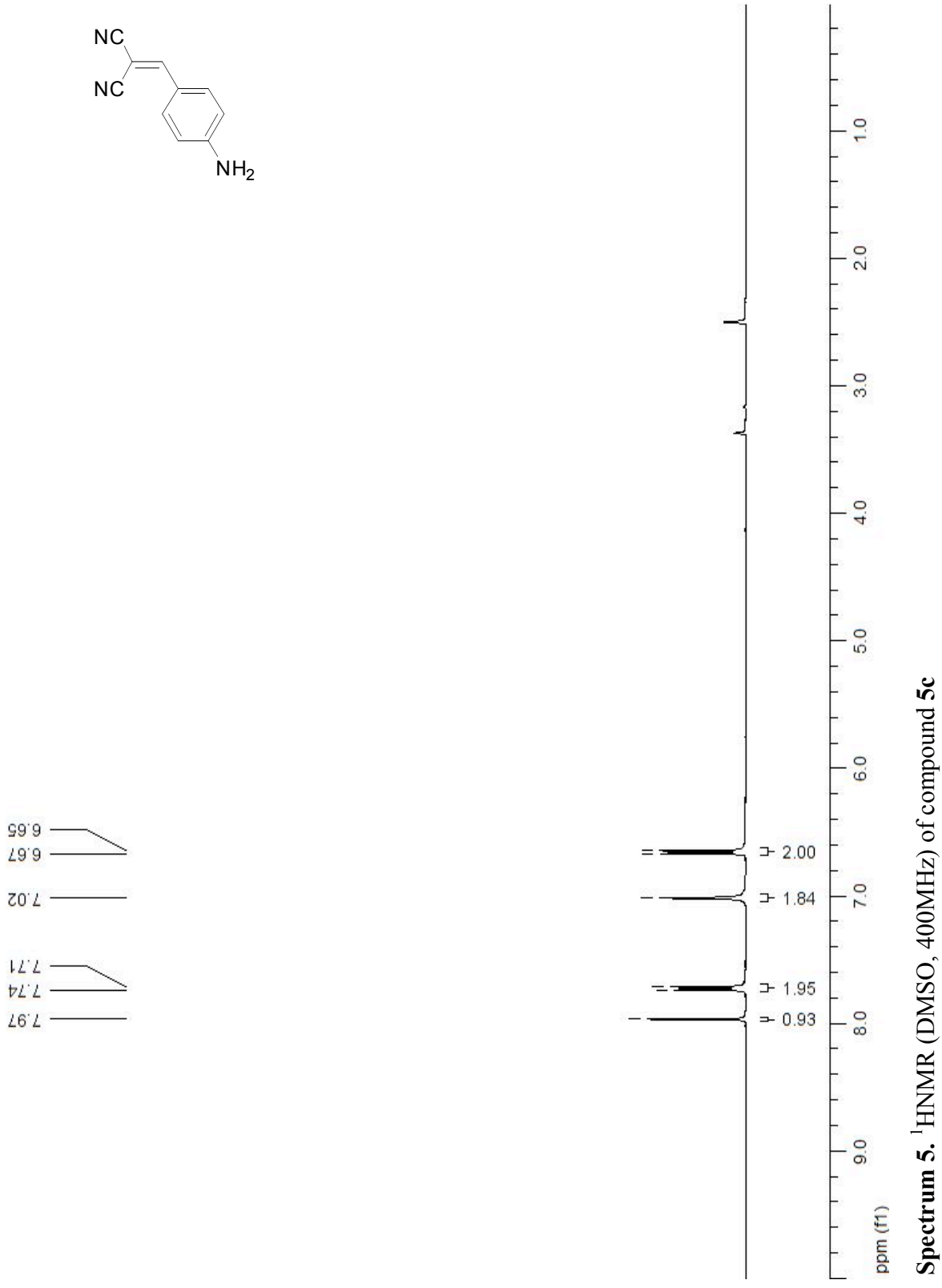
Spectrum 2. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5a**



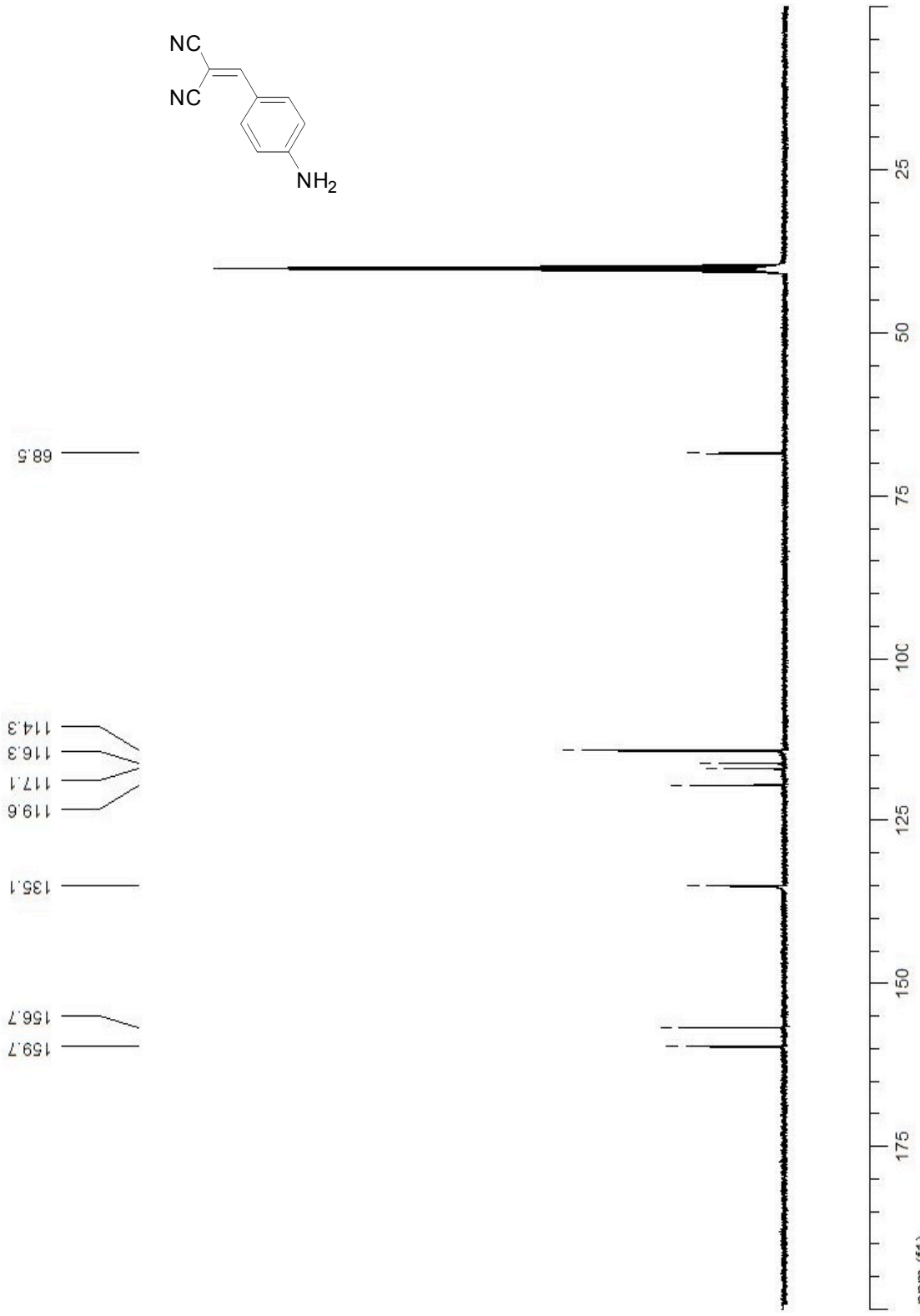
Spectrum 3. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5b**



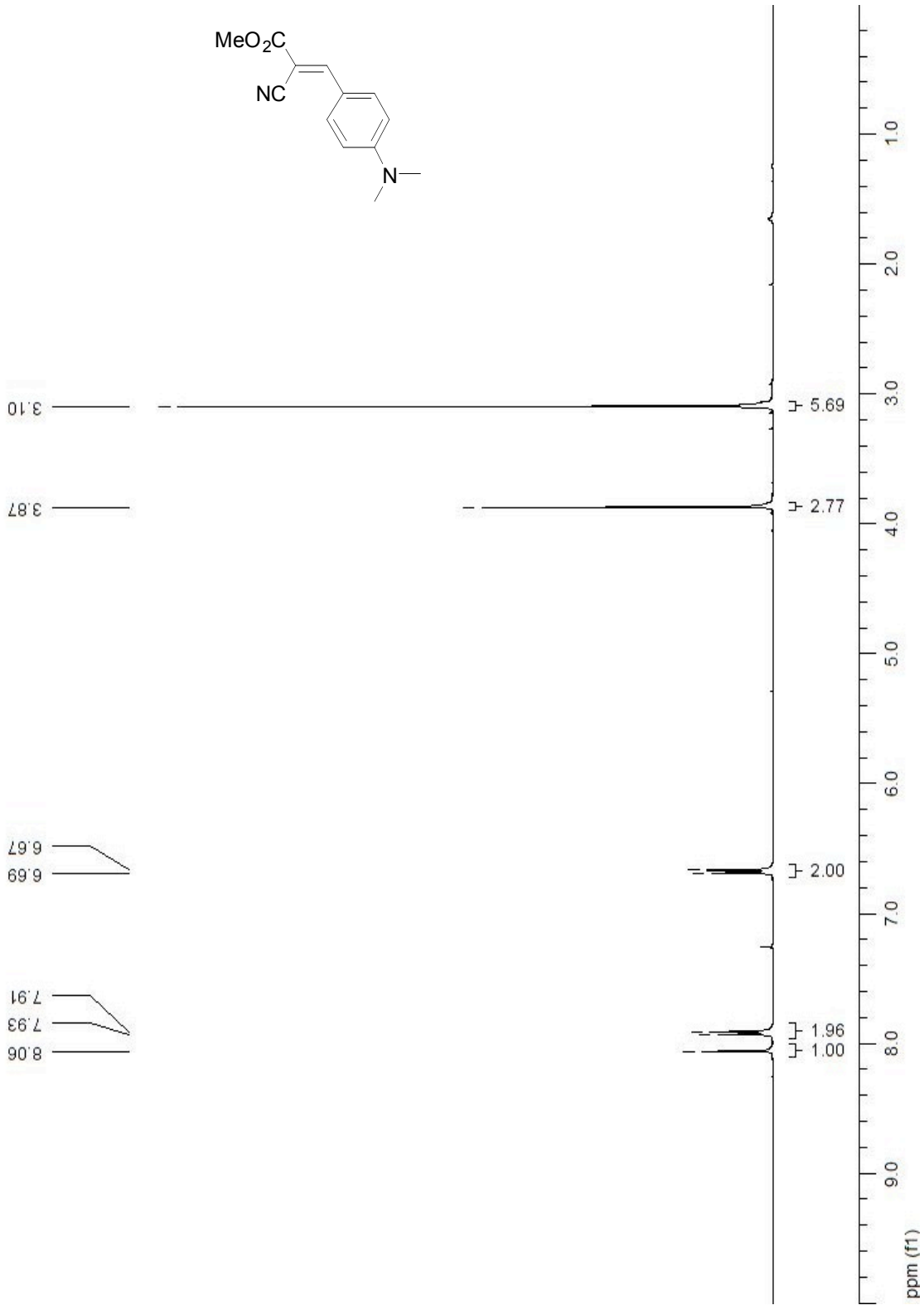
Spectrum 4. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5b**



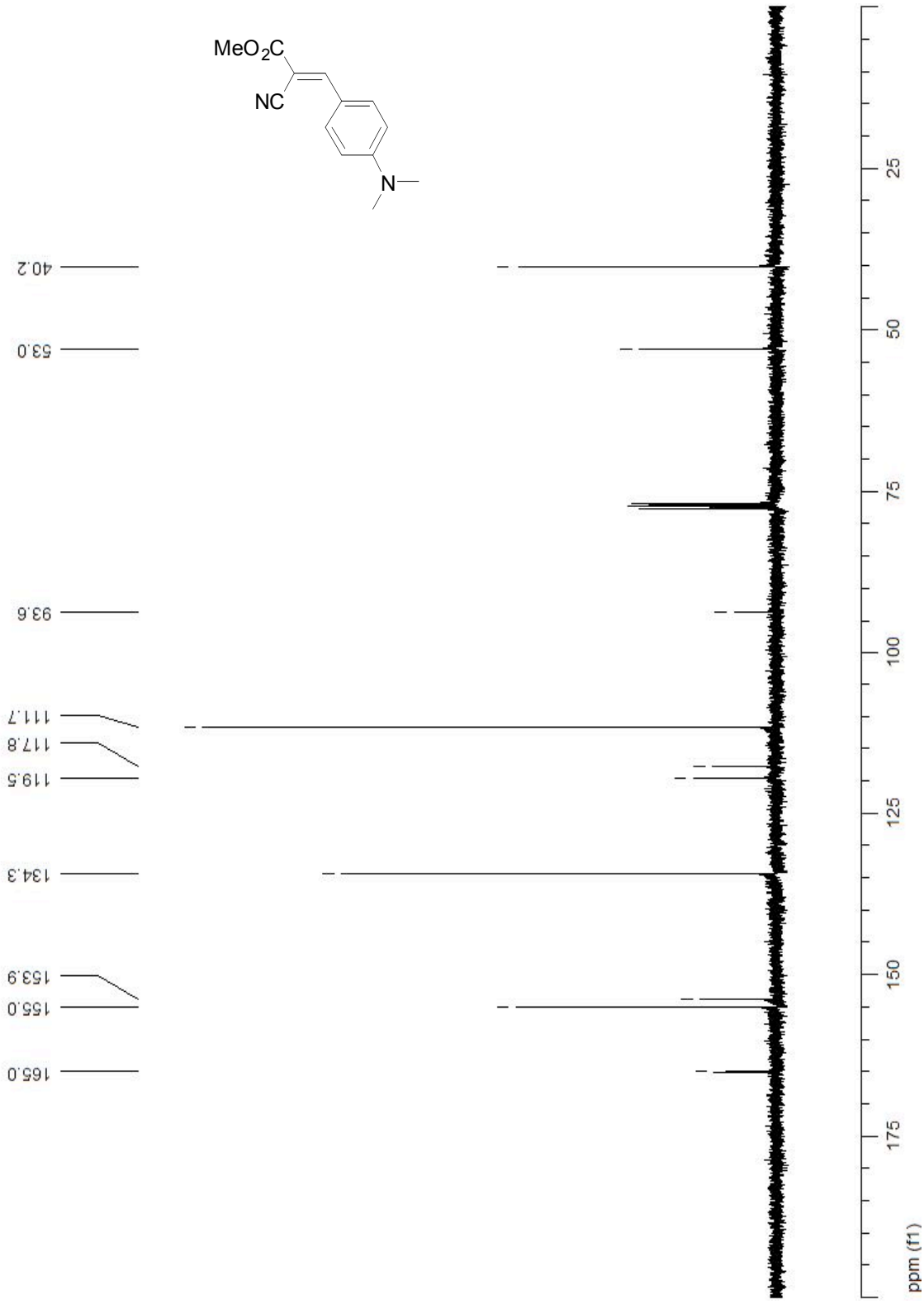
Spectrum 5. ^{1}HNMR (DMSO, 400MHz) of compound **5c**



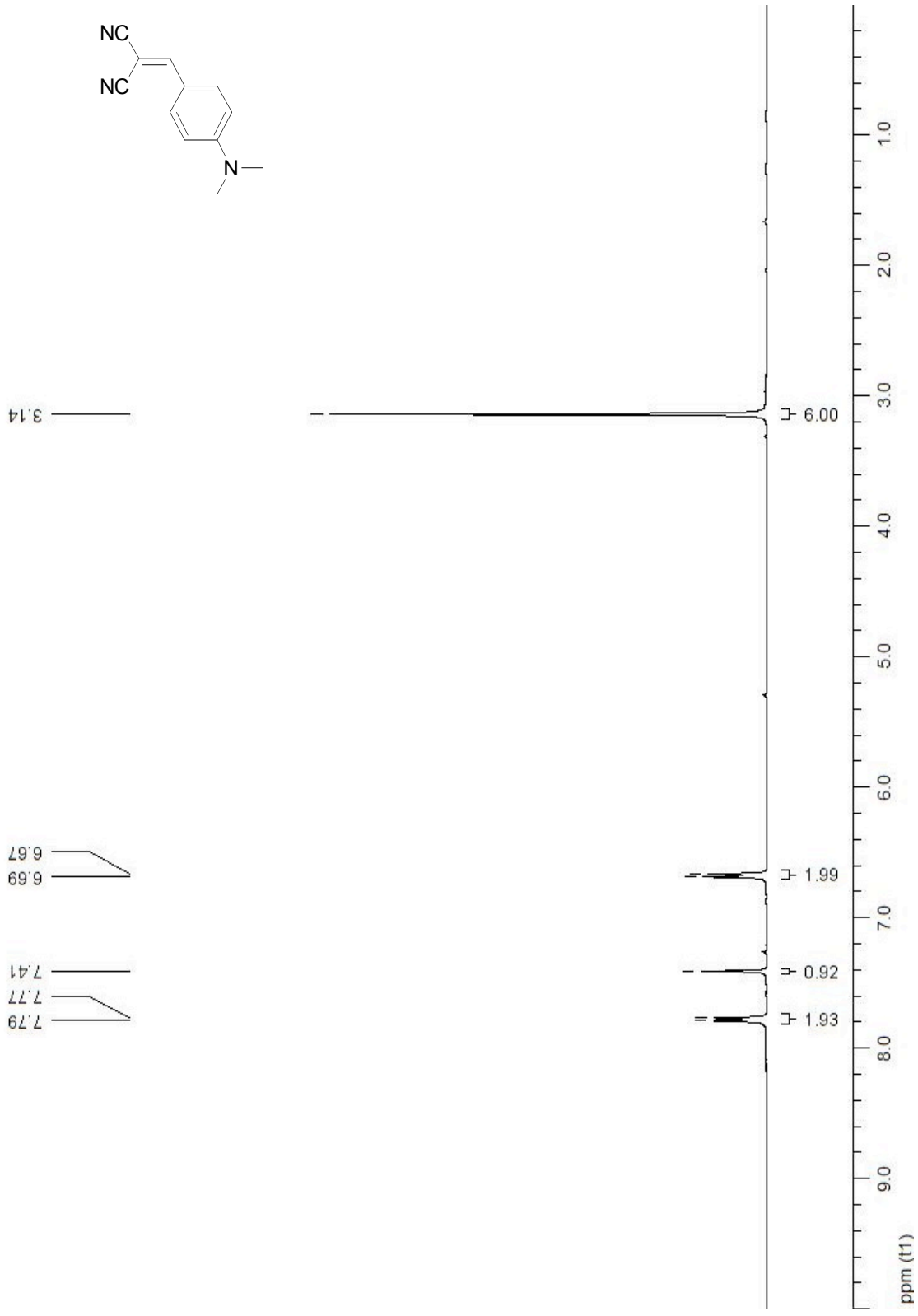
Spectrum 6. ^{13}CNMR (DMSO, 100MHz) of compound **5c**



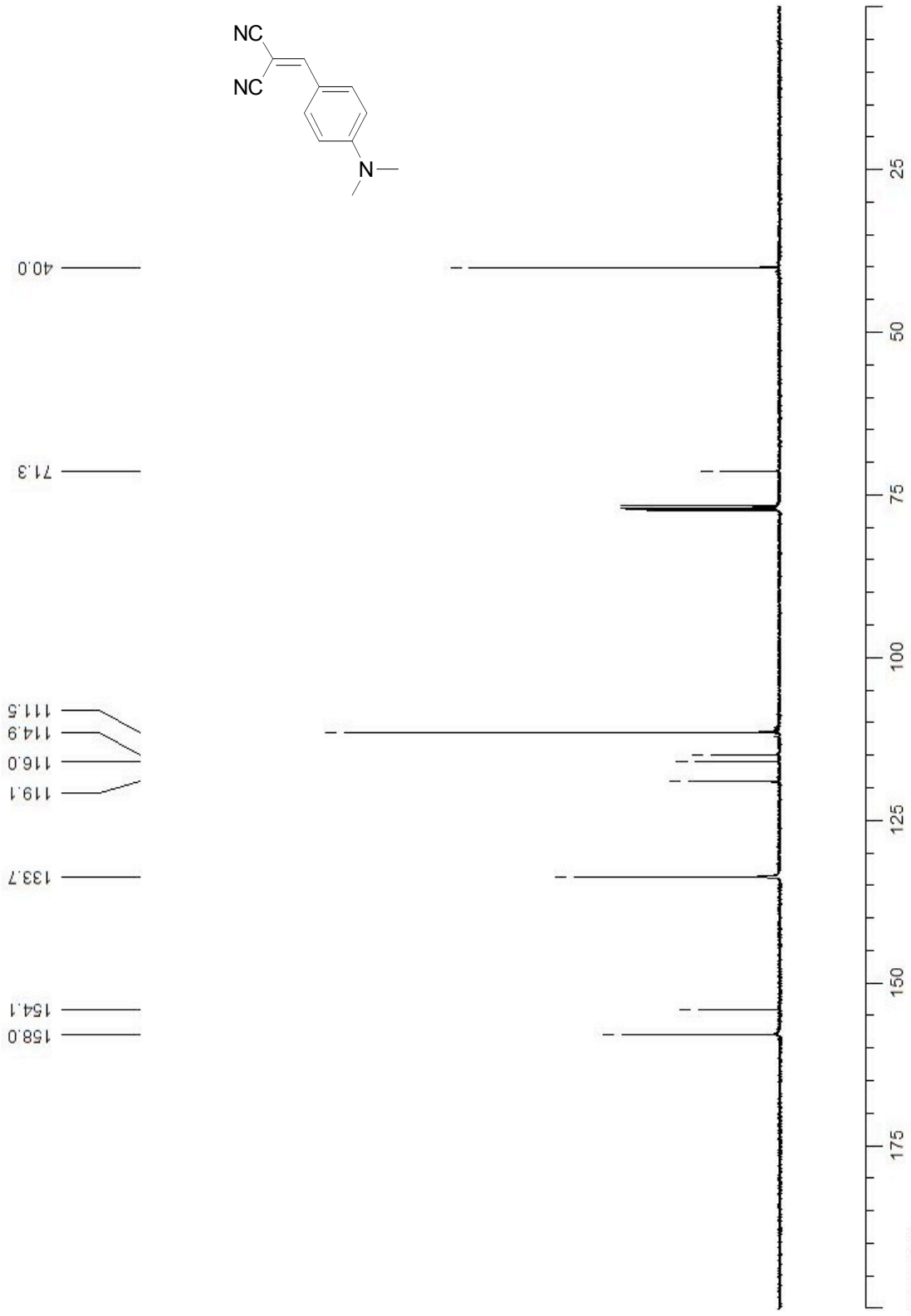
Spectrum 7. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5d**



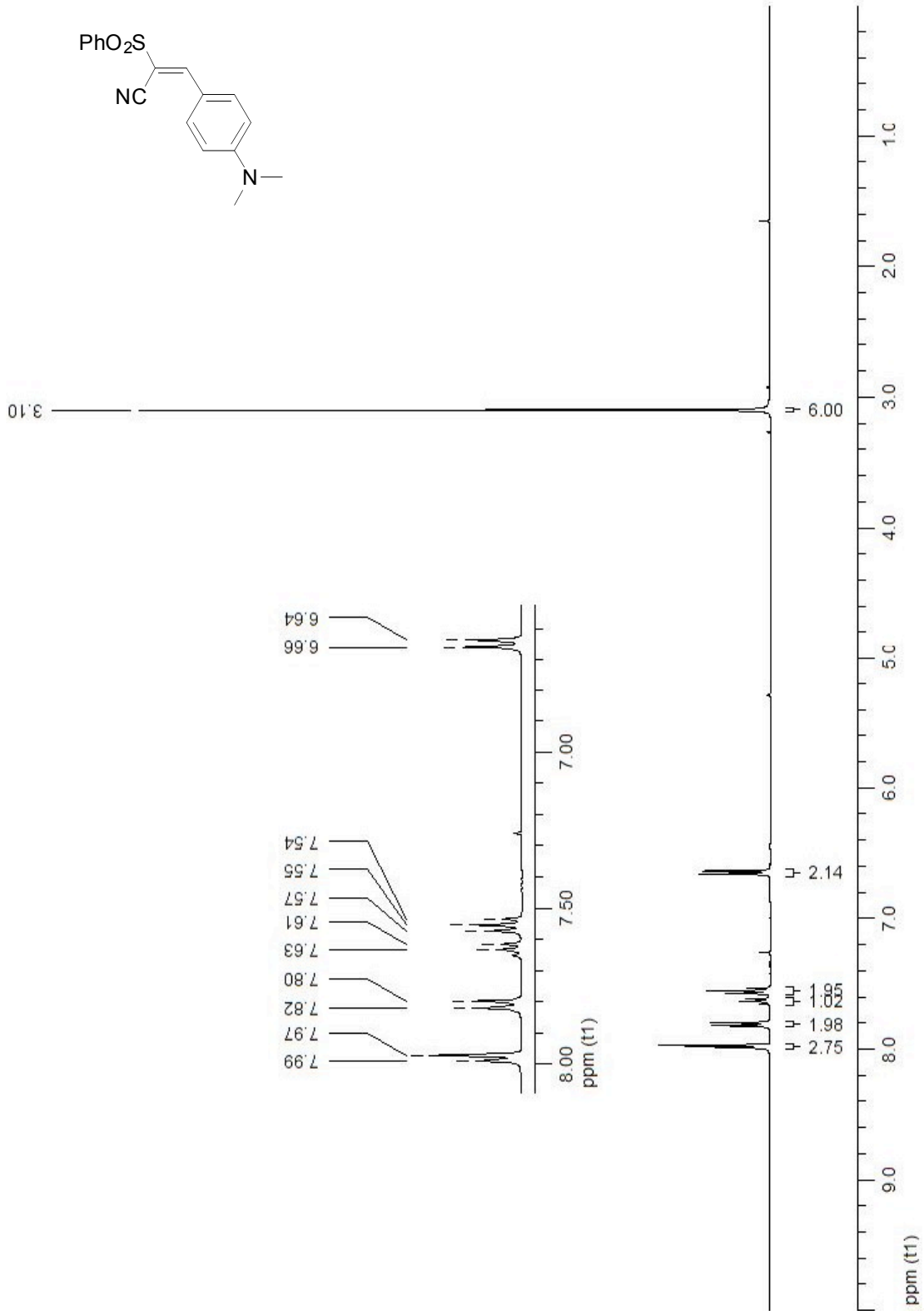
Spectrum 8. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5d**



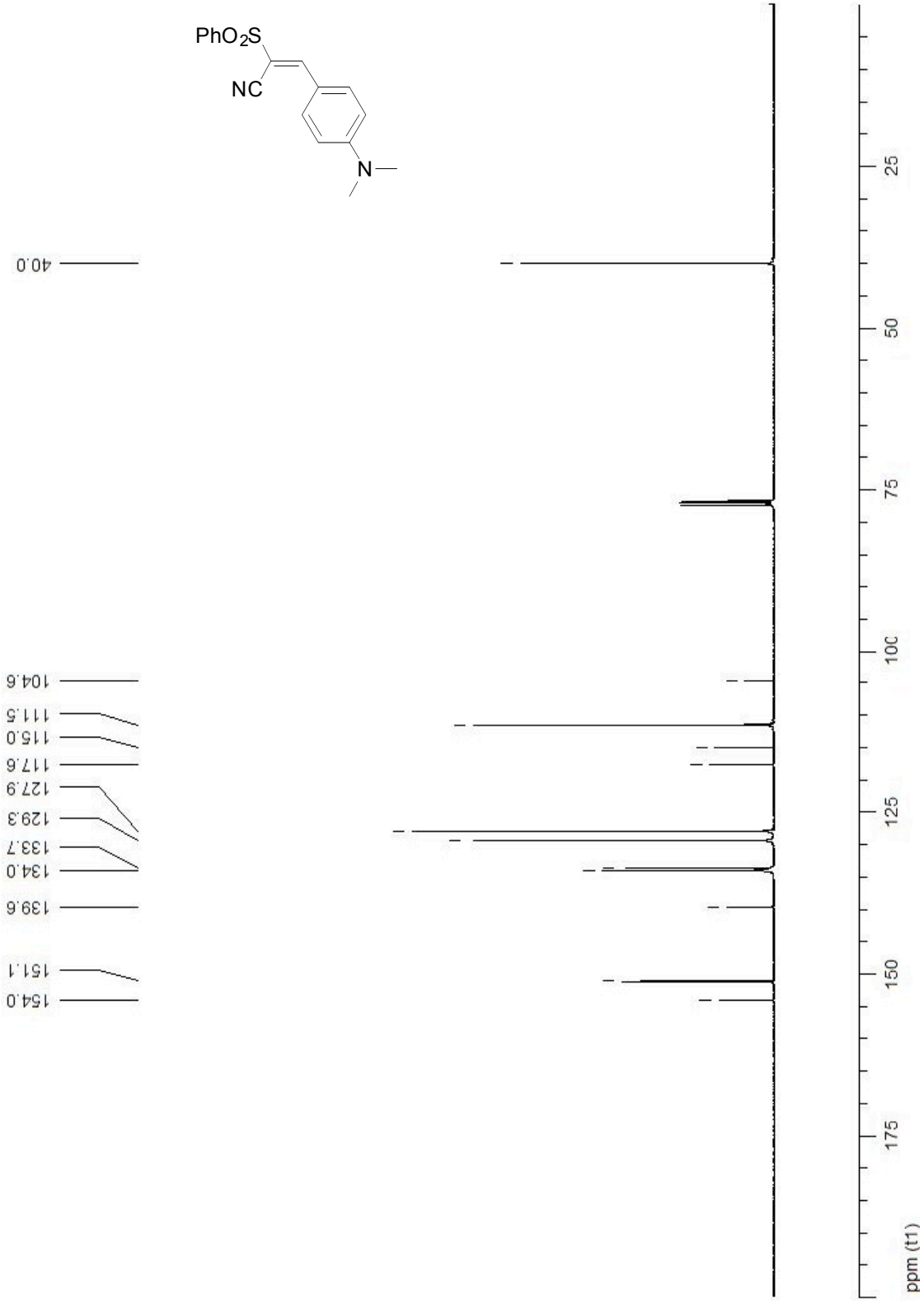
Spectrum 9. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5e**



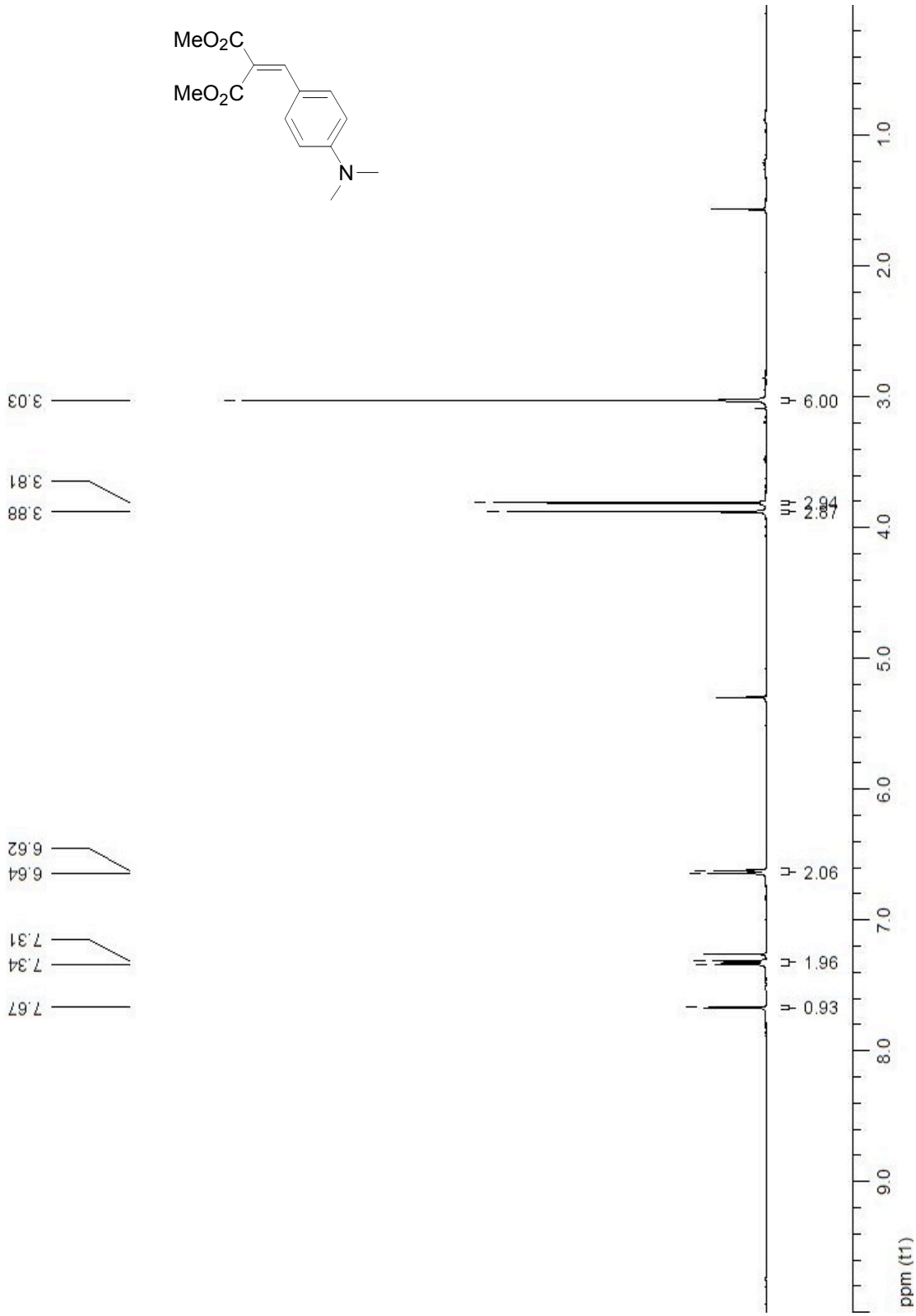
Spectrum 10. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5e**



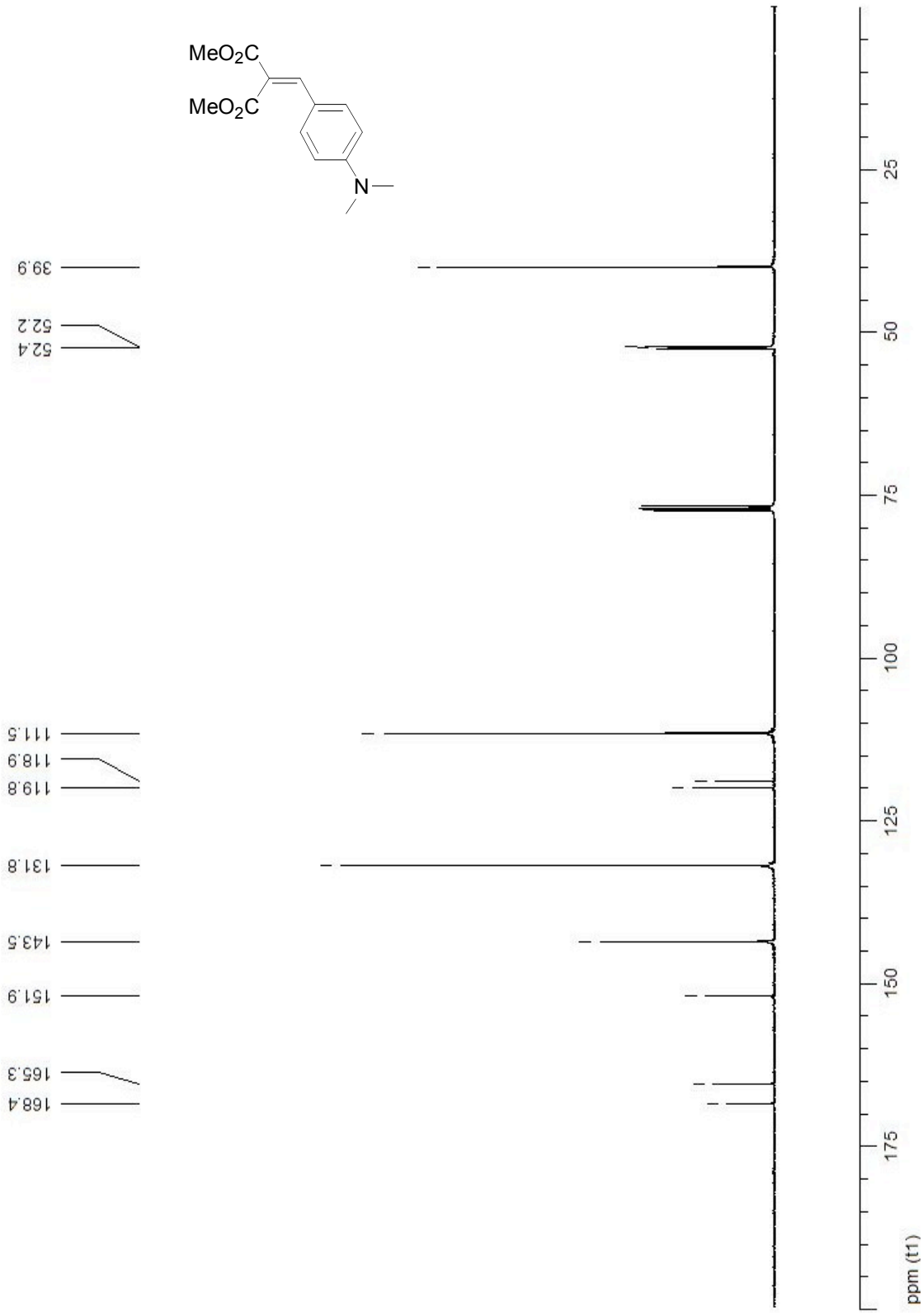
Spectrum 11. ^{1}HNMR ($CDCl_3$, 100MHz) of compound **5f**



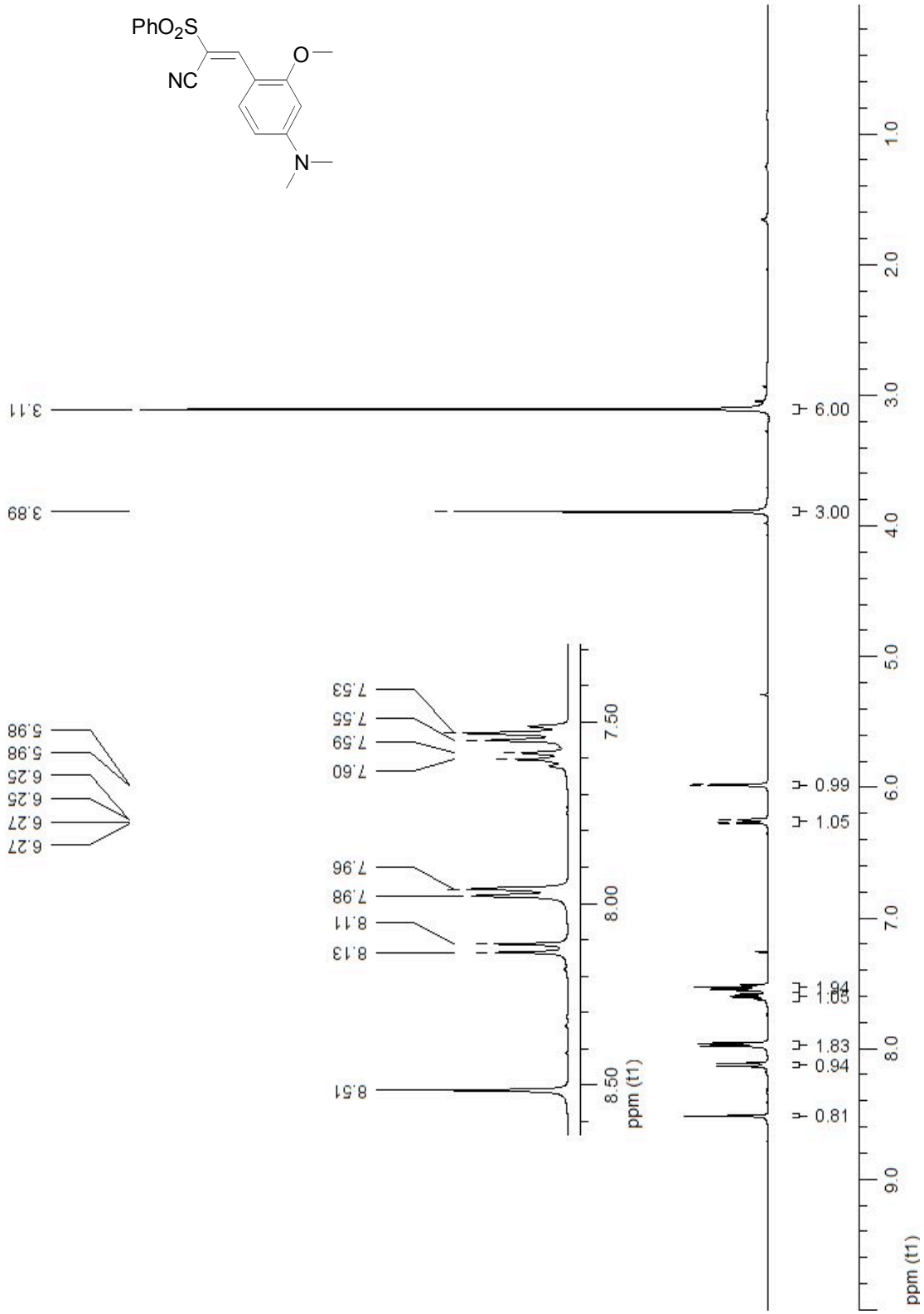
Spectrum 12. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5f**



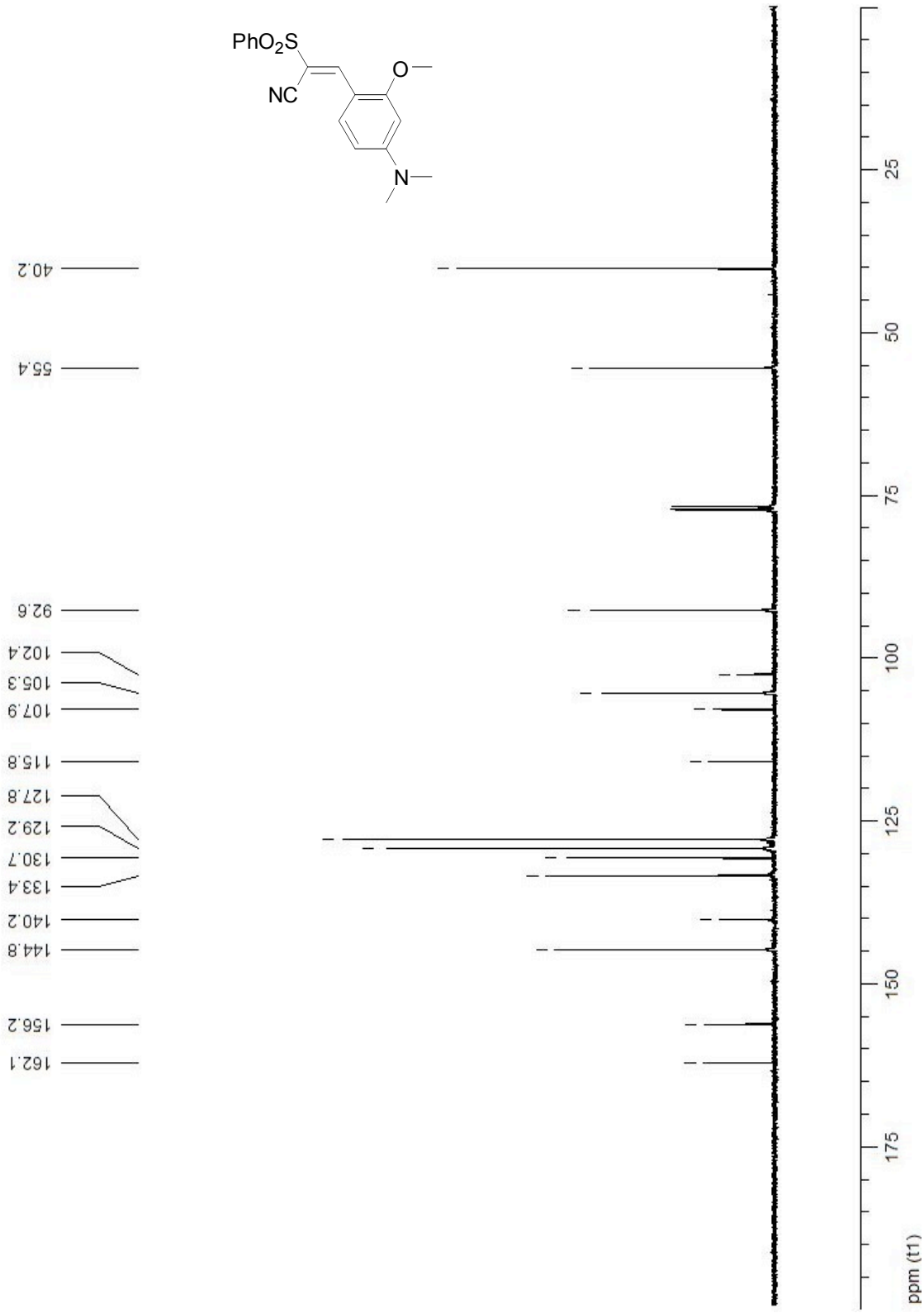
Spectrum 13. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5g**



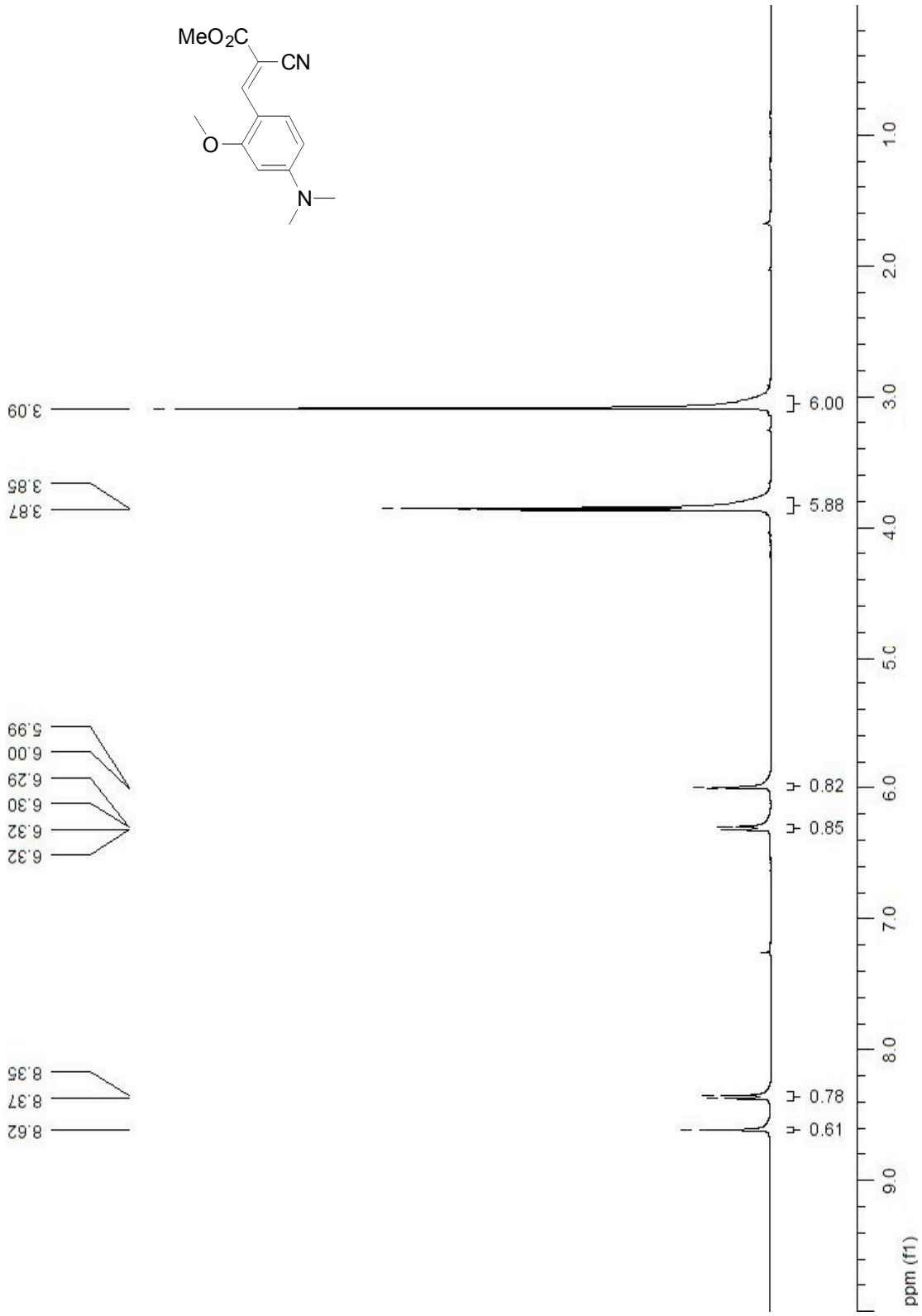
Spectrum 14. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5g**



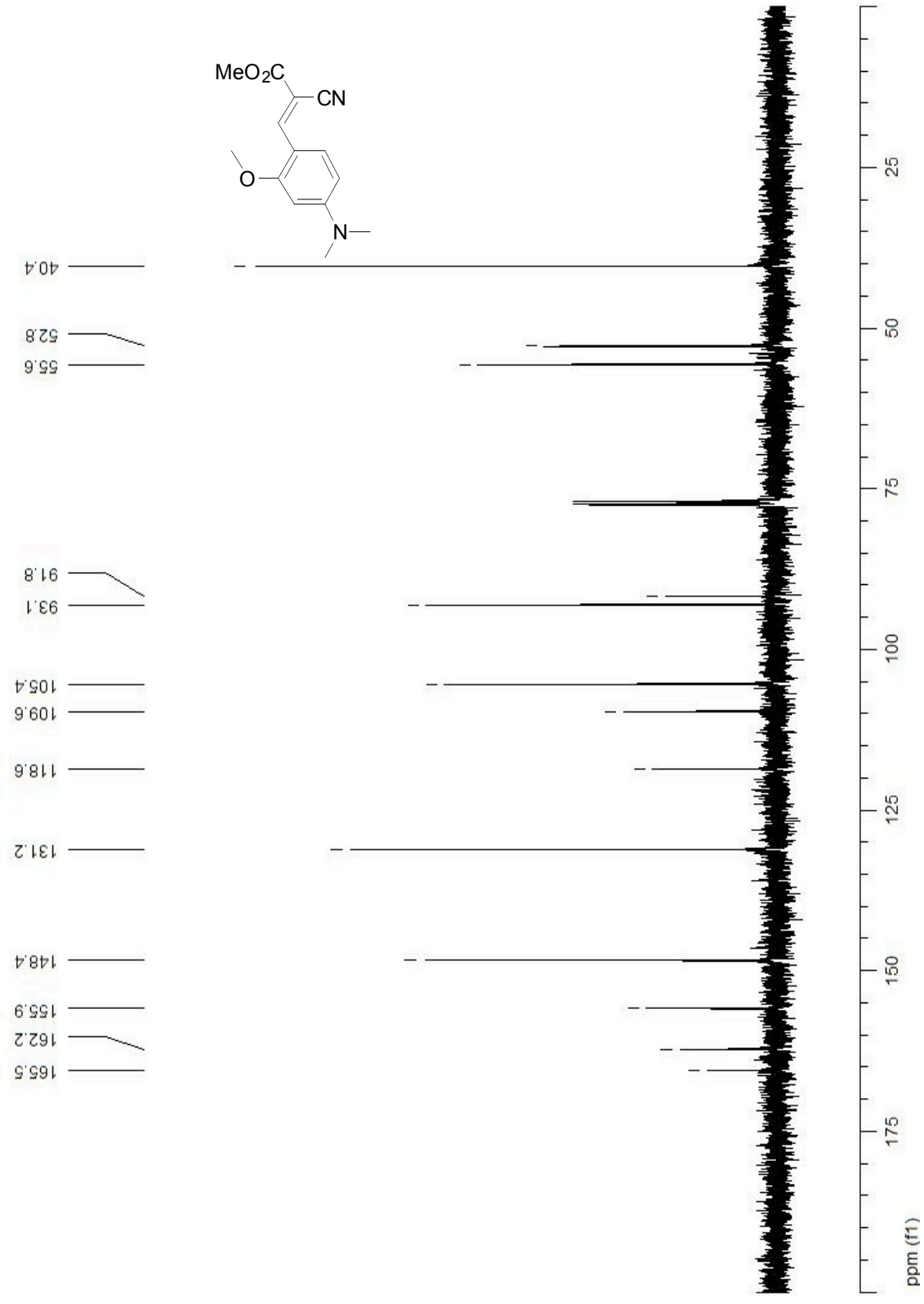
Spectrum 15. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5h**



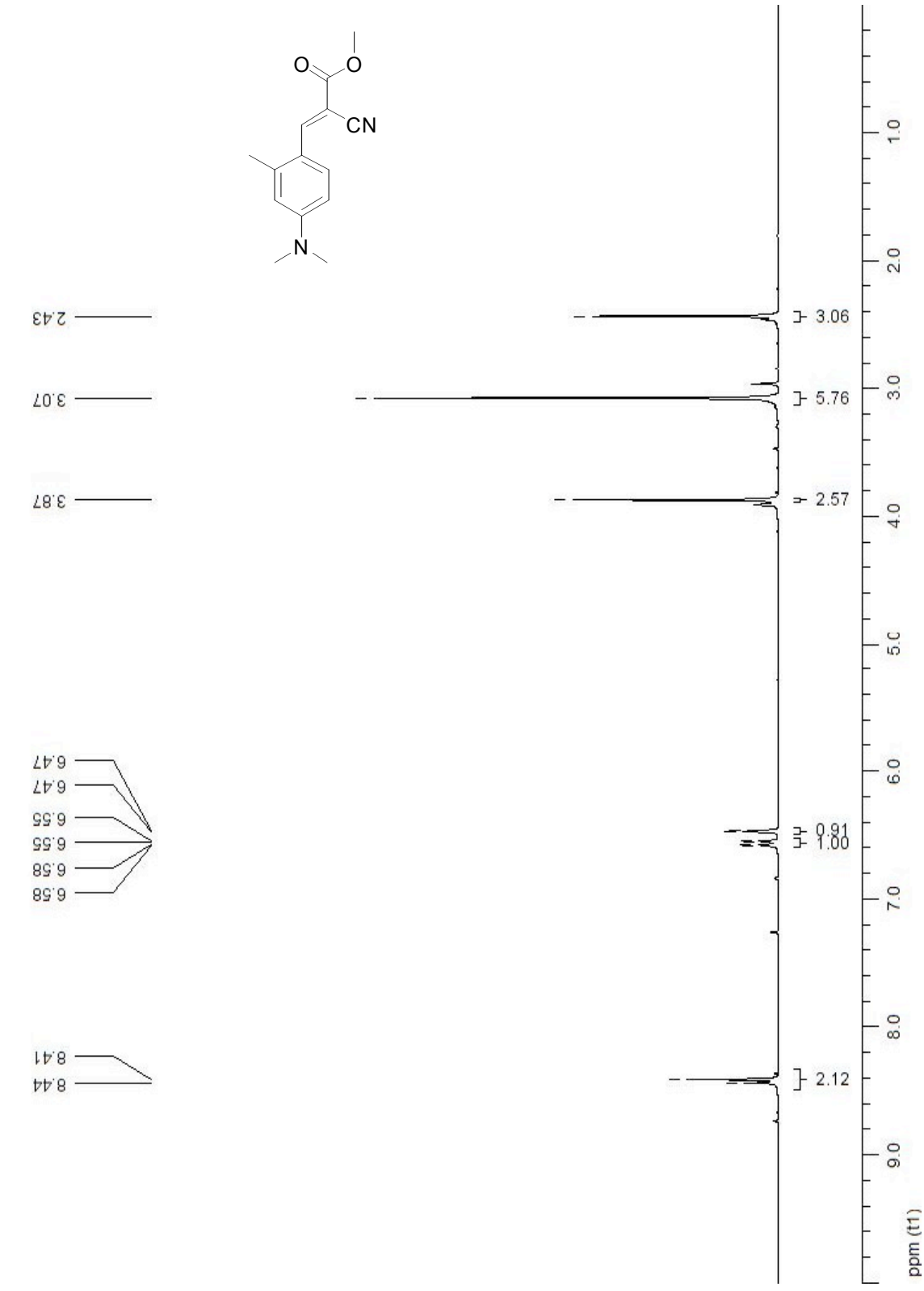
Spectrum 16. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5h**



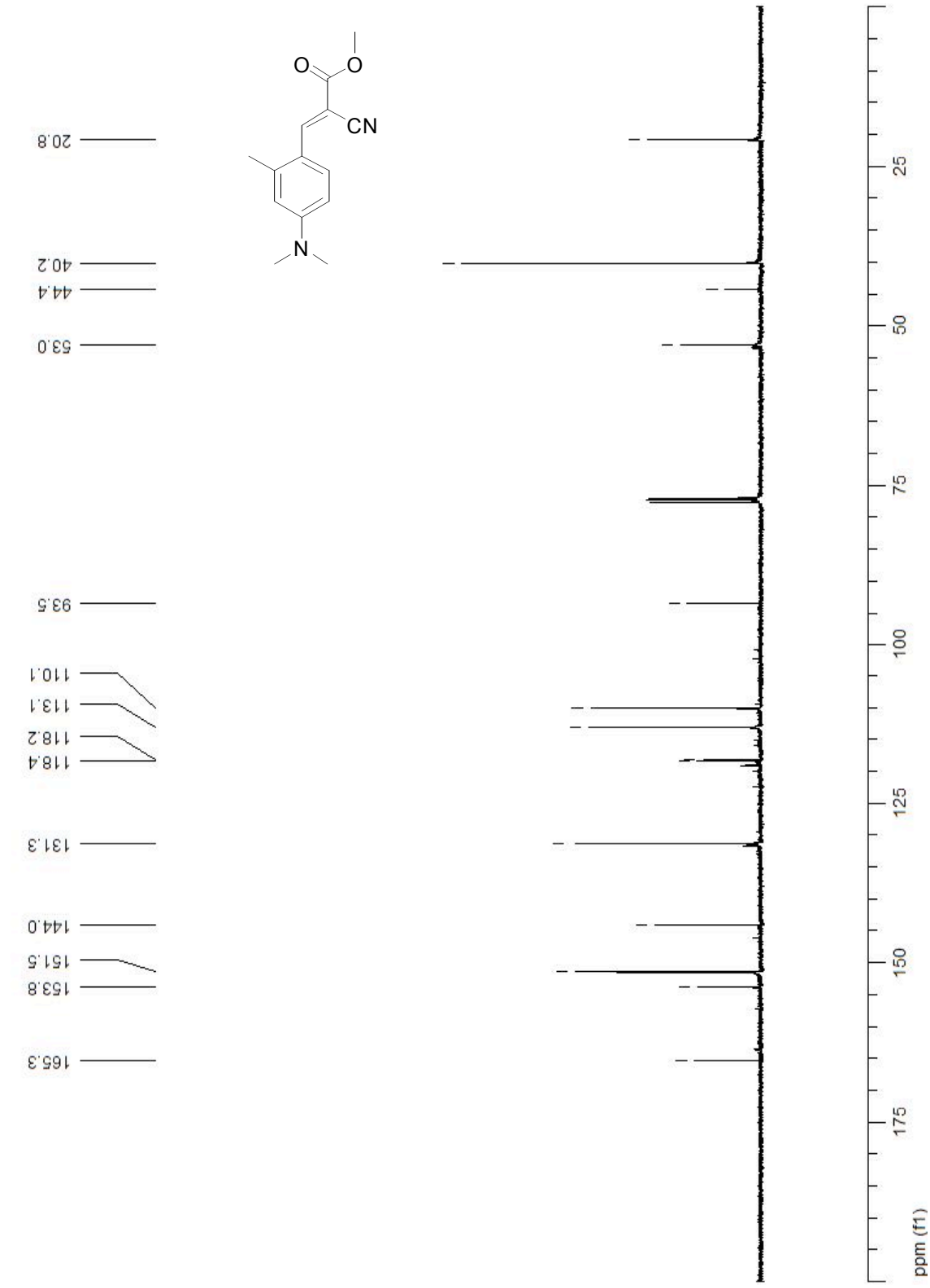
Spectrum 17. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5i**



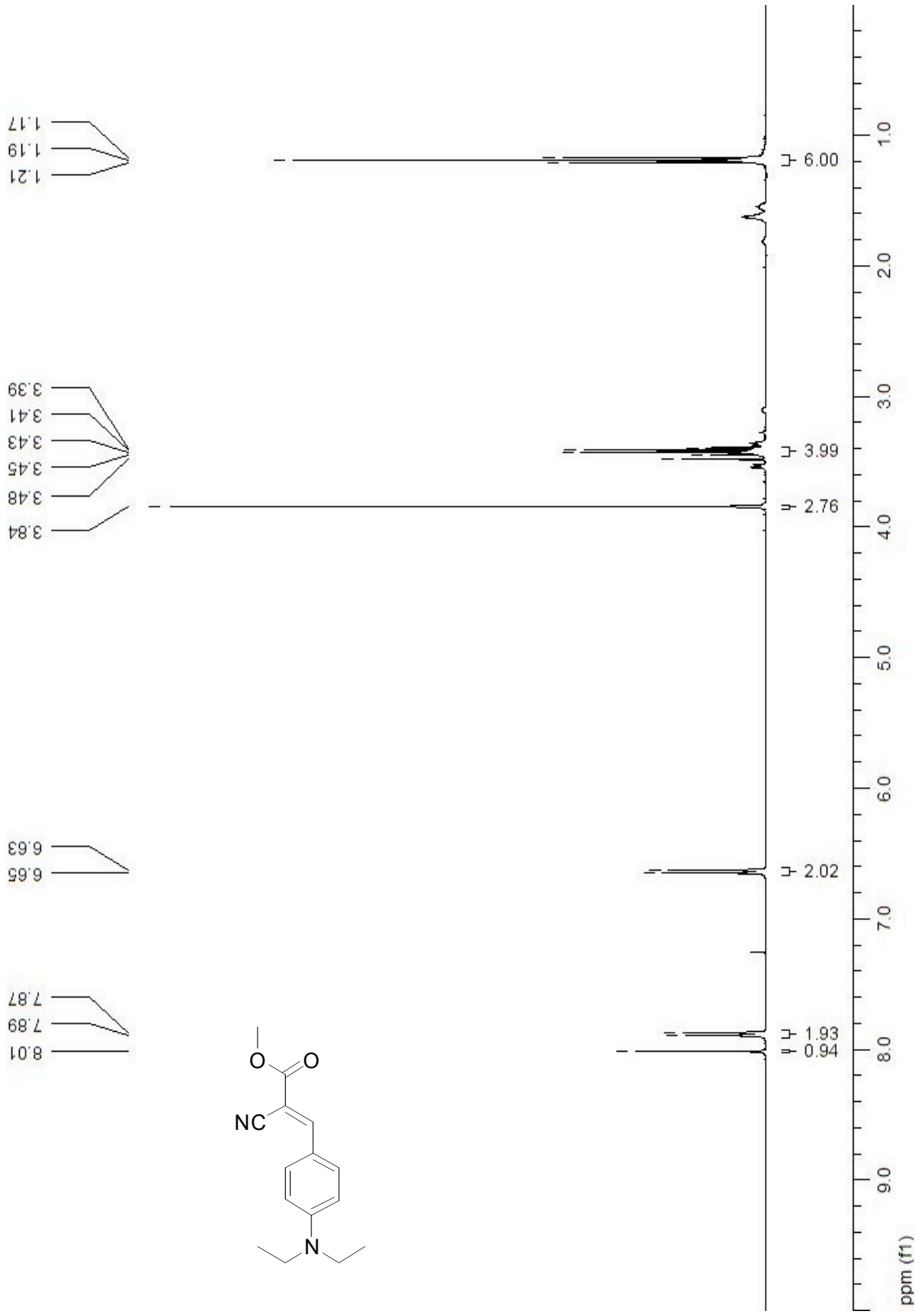
Spectrum 18. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5i**



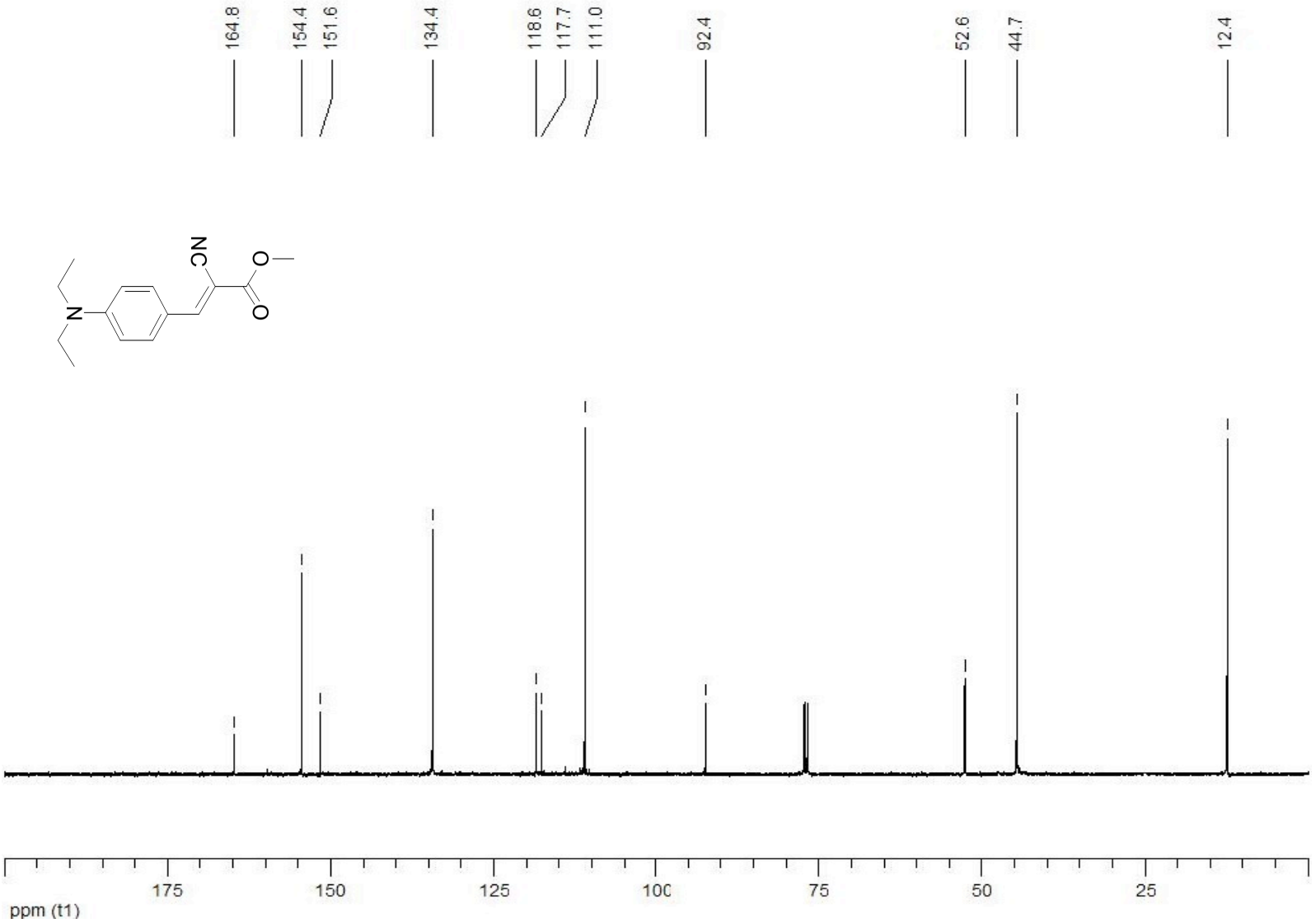
Spectrum 19. ^{1}HNMR ($CDCl_3$, 300MHz) of compound **5j**



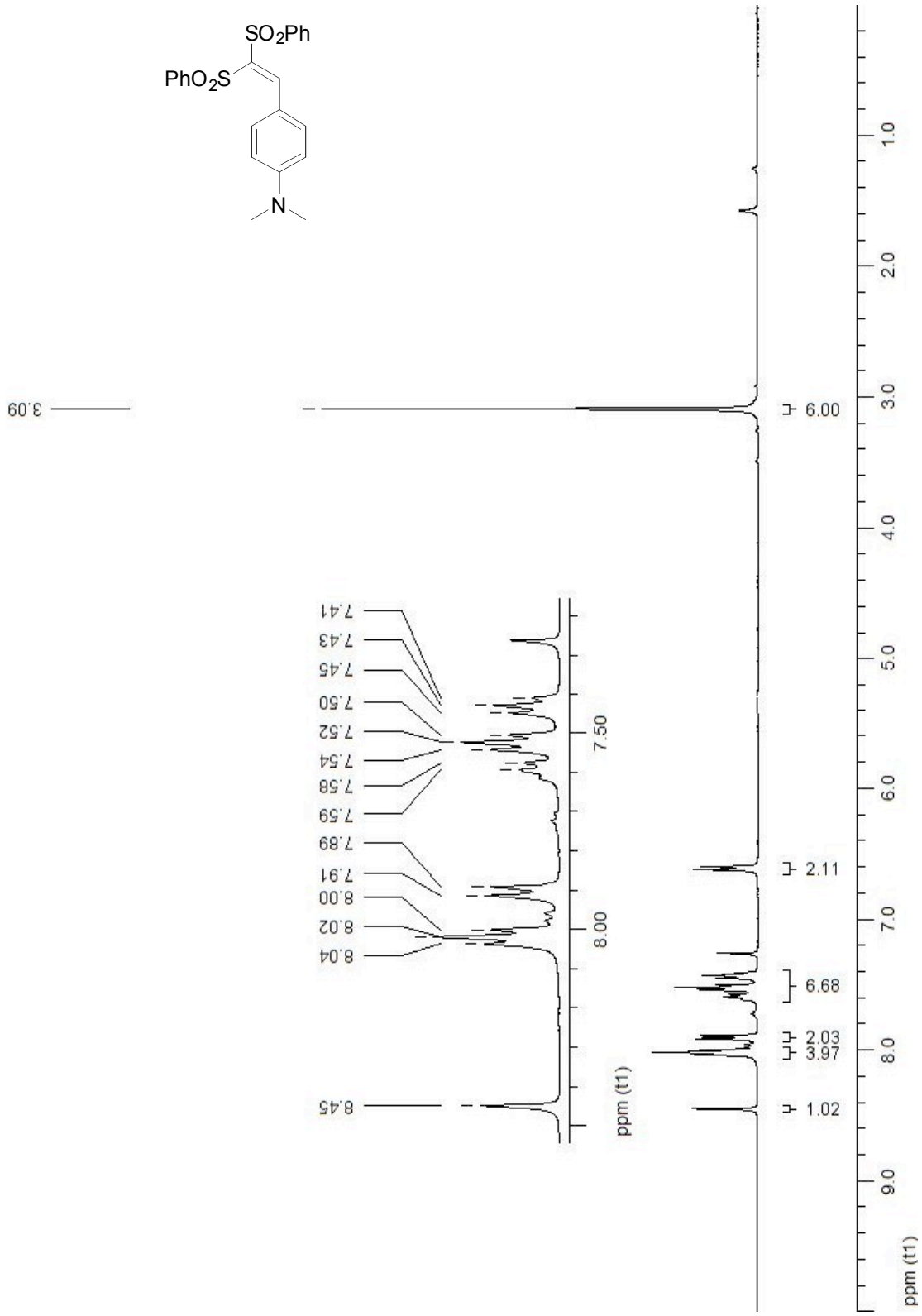
Spectrum 20. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5j**



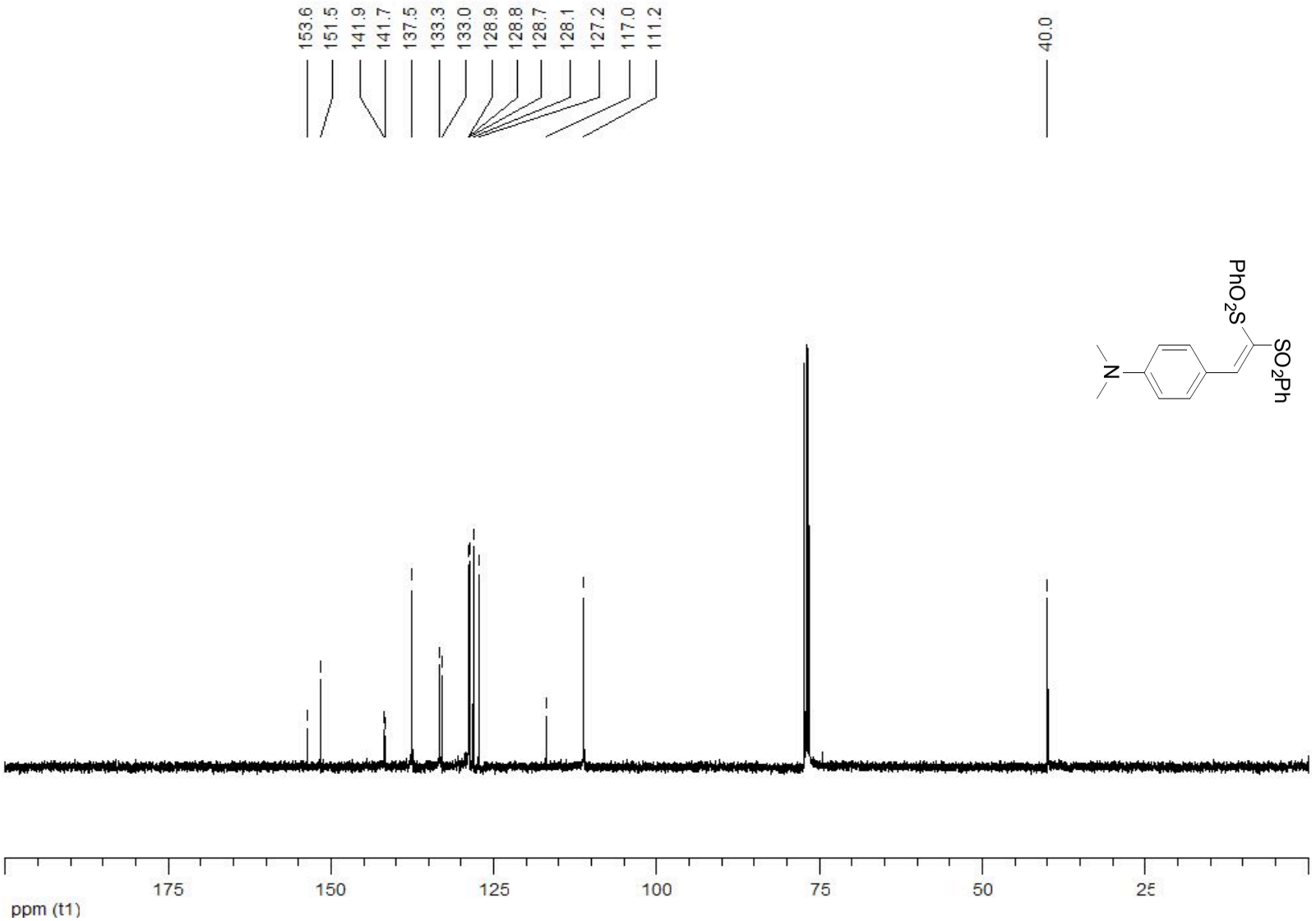
Spectrum 21. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5k**



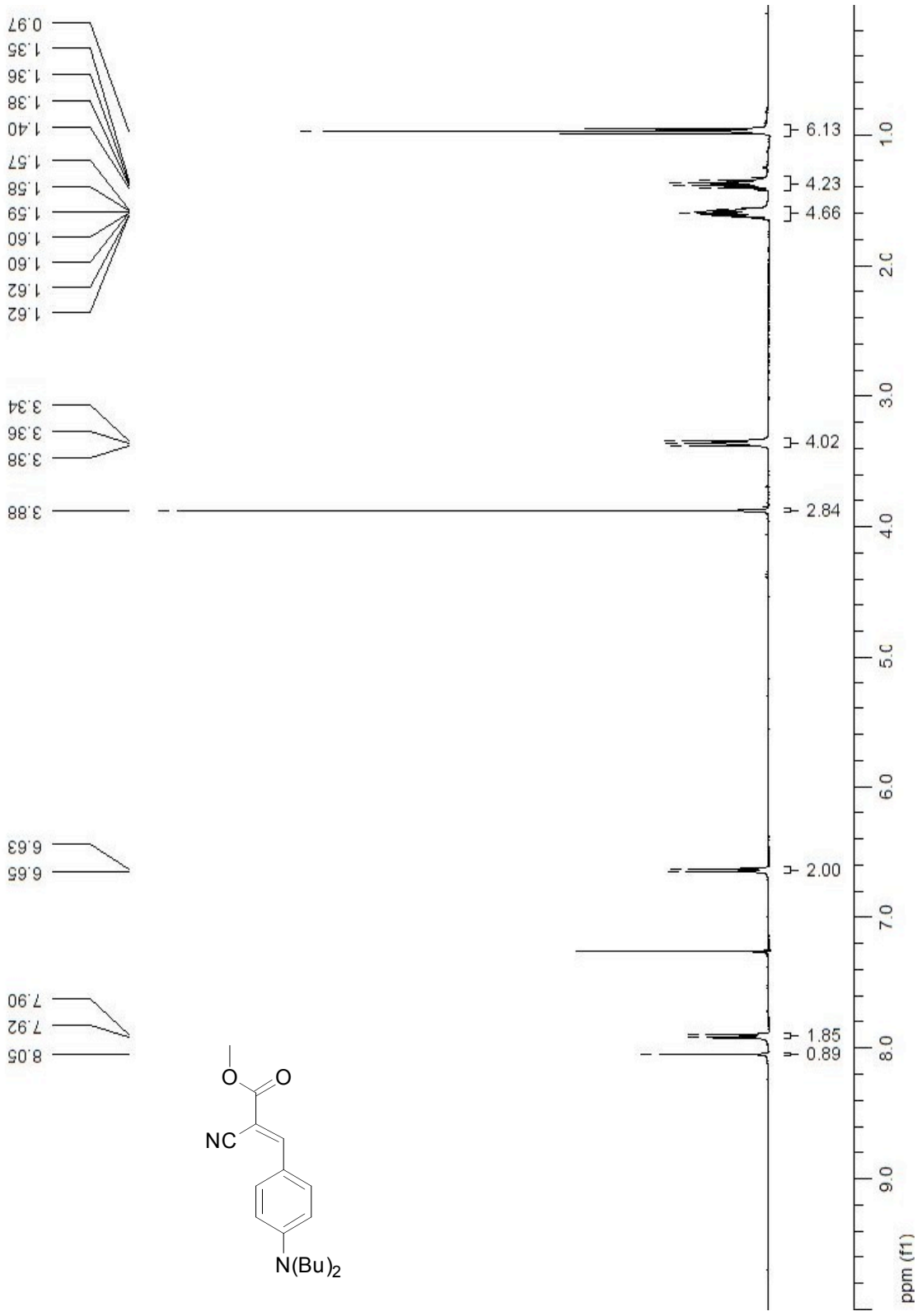
Spectrum 22. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5k**



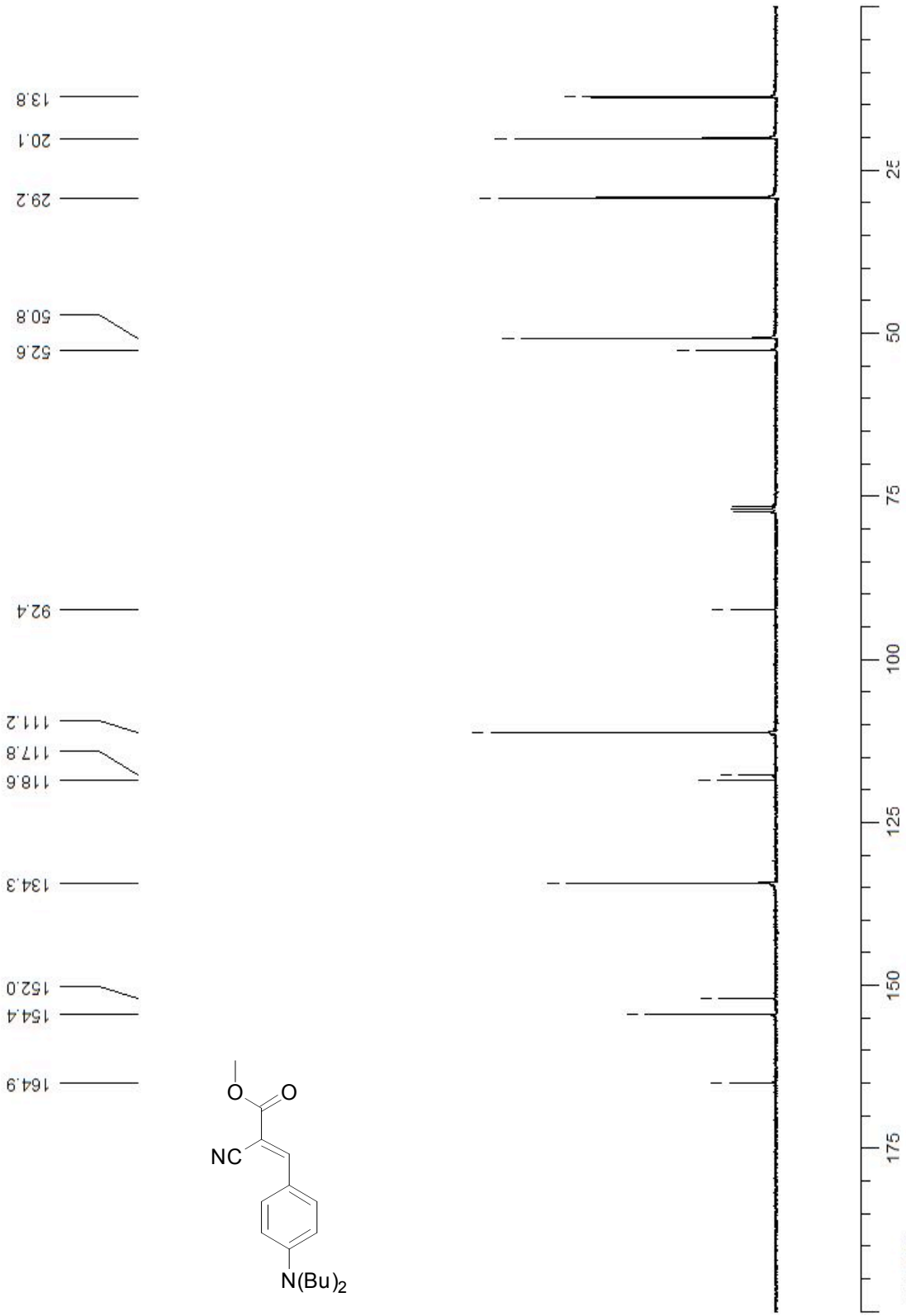
Spectrum 23. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5l**



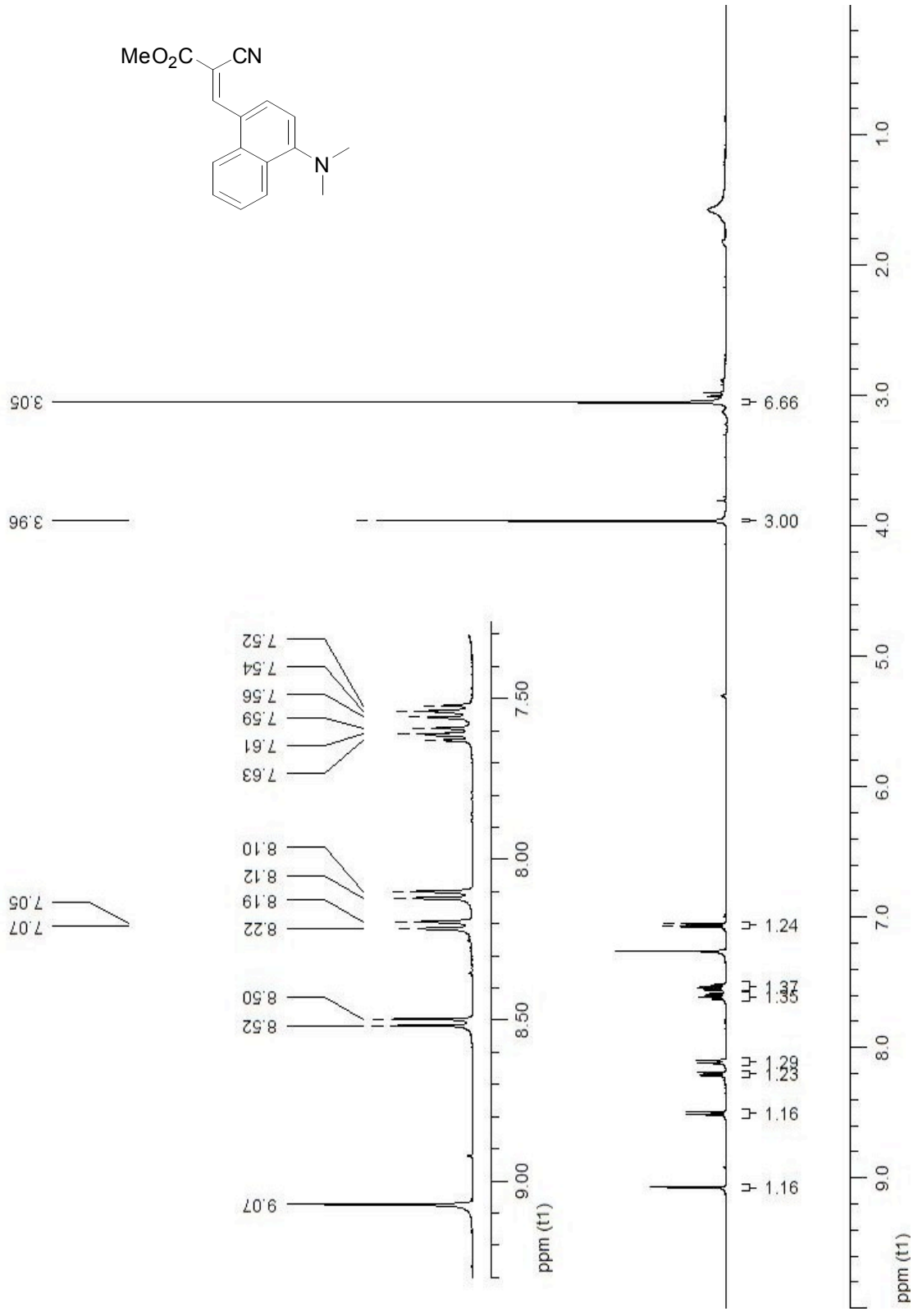
Spectrum 24. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5l**



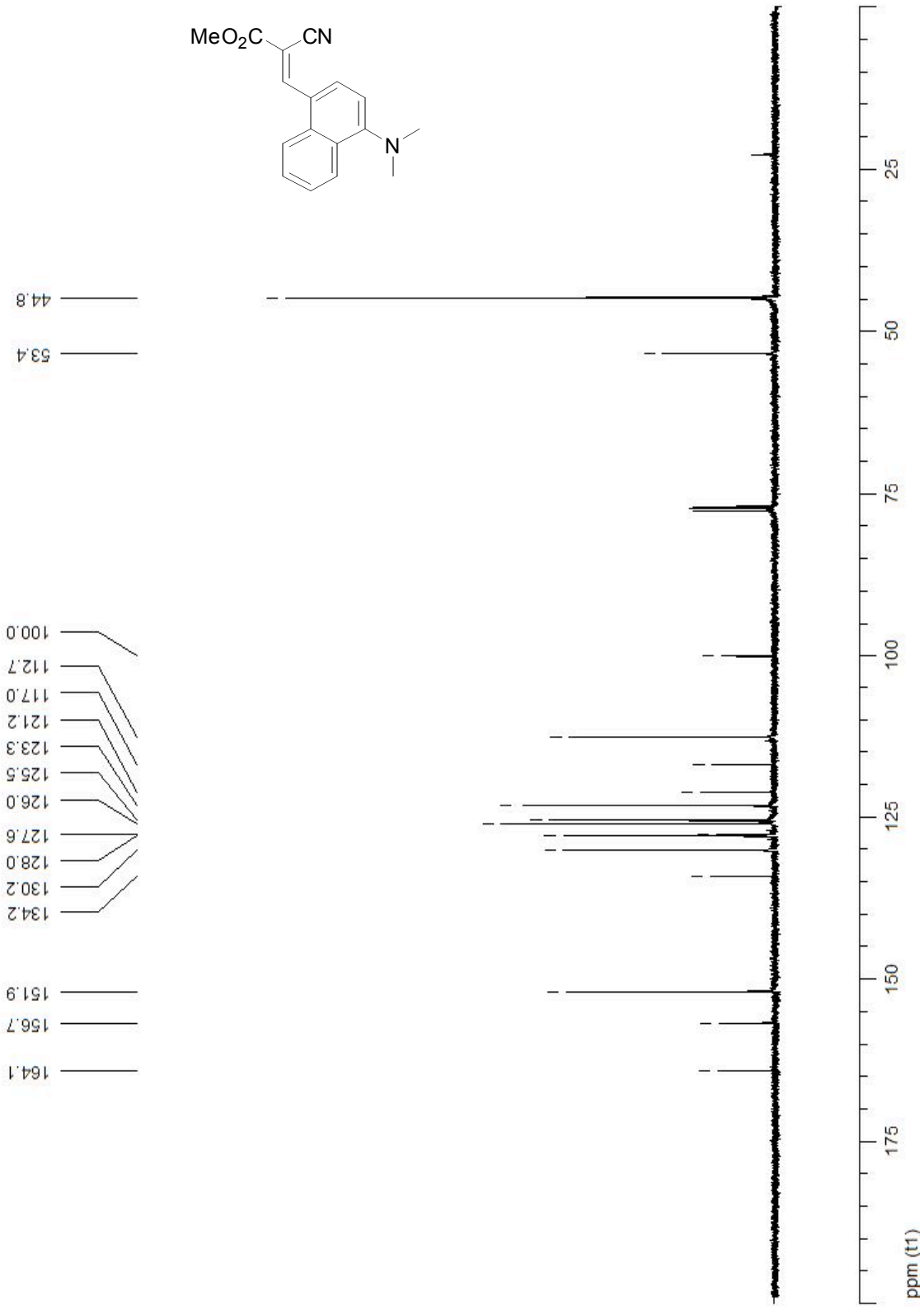
Spectrum 25. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **5m**



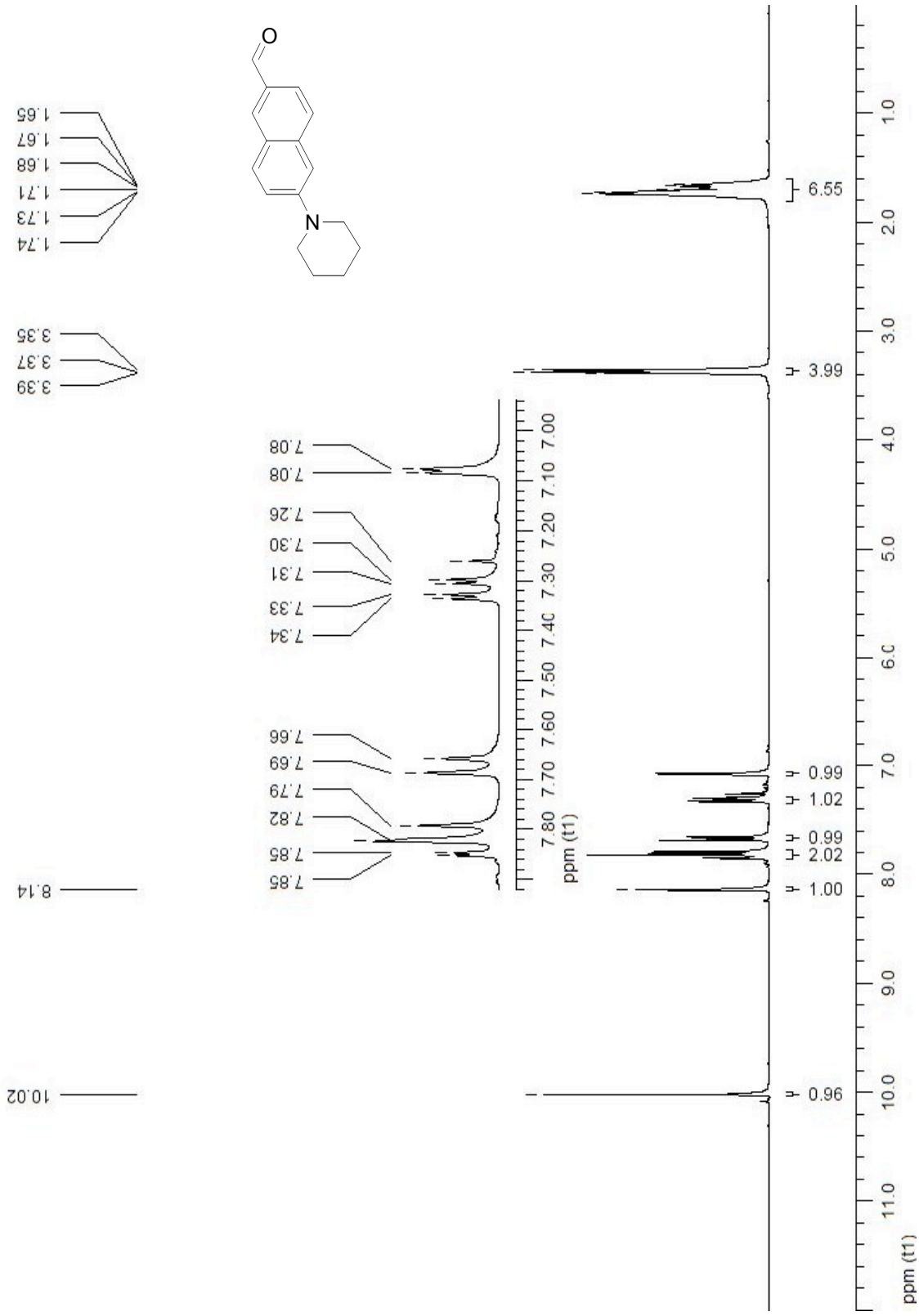
Spectrum 26. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **5m**



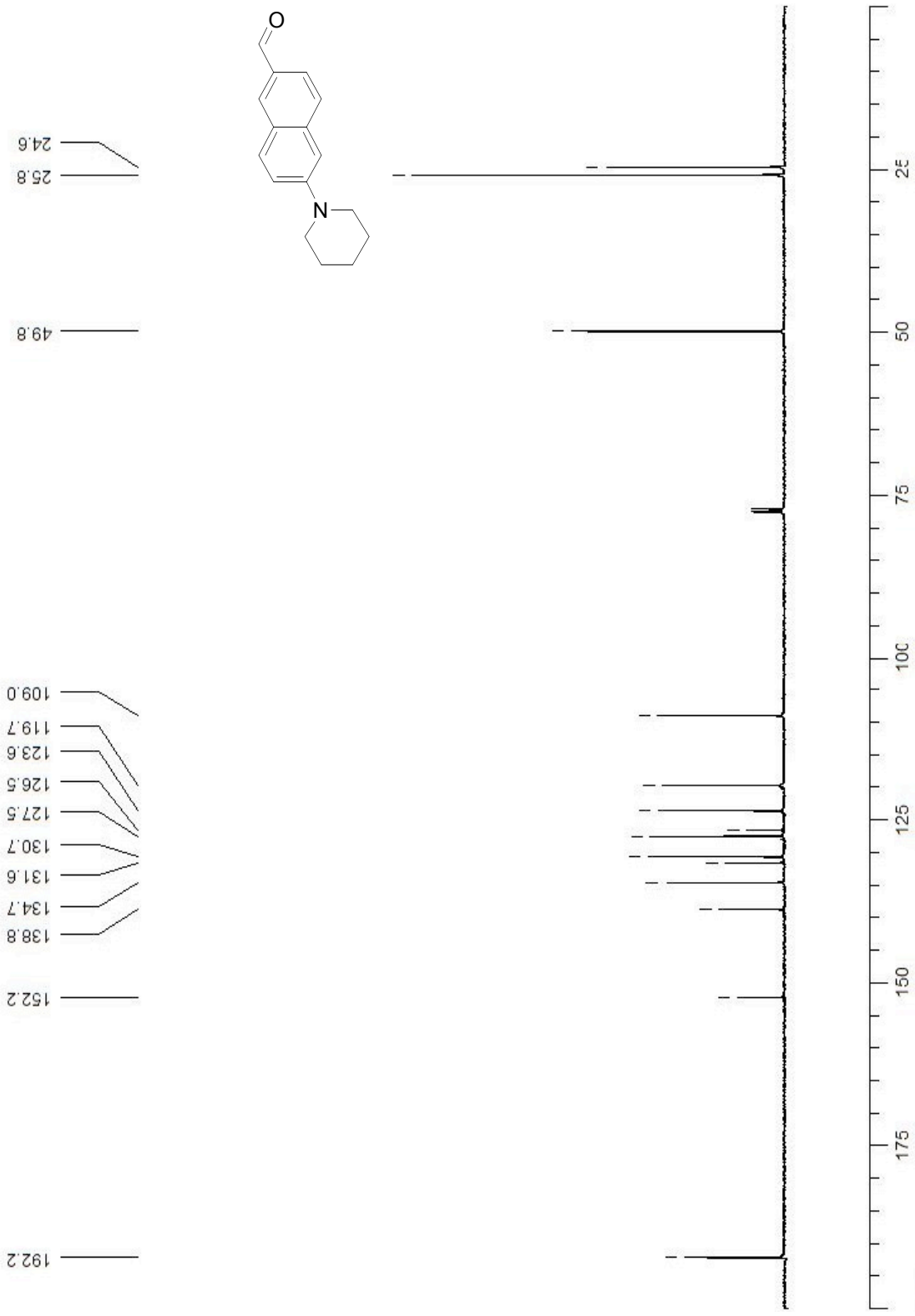
Spectrum 27. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **7**



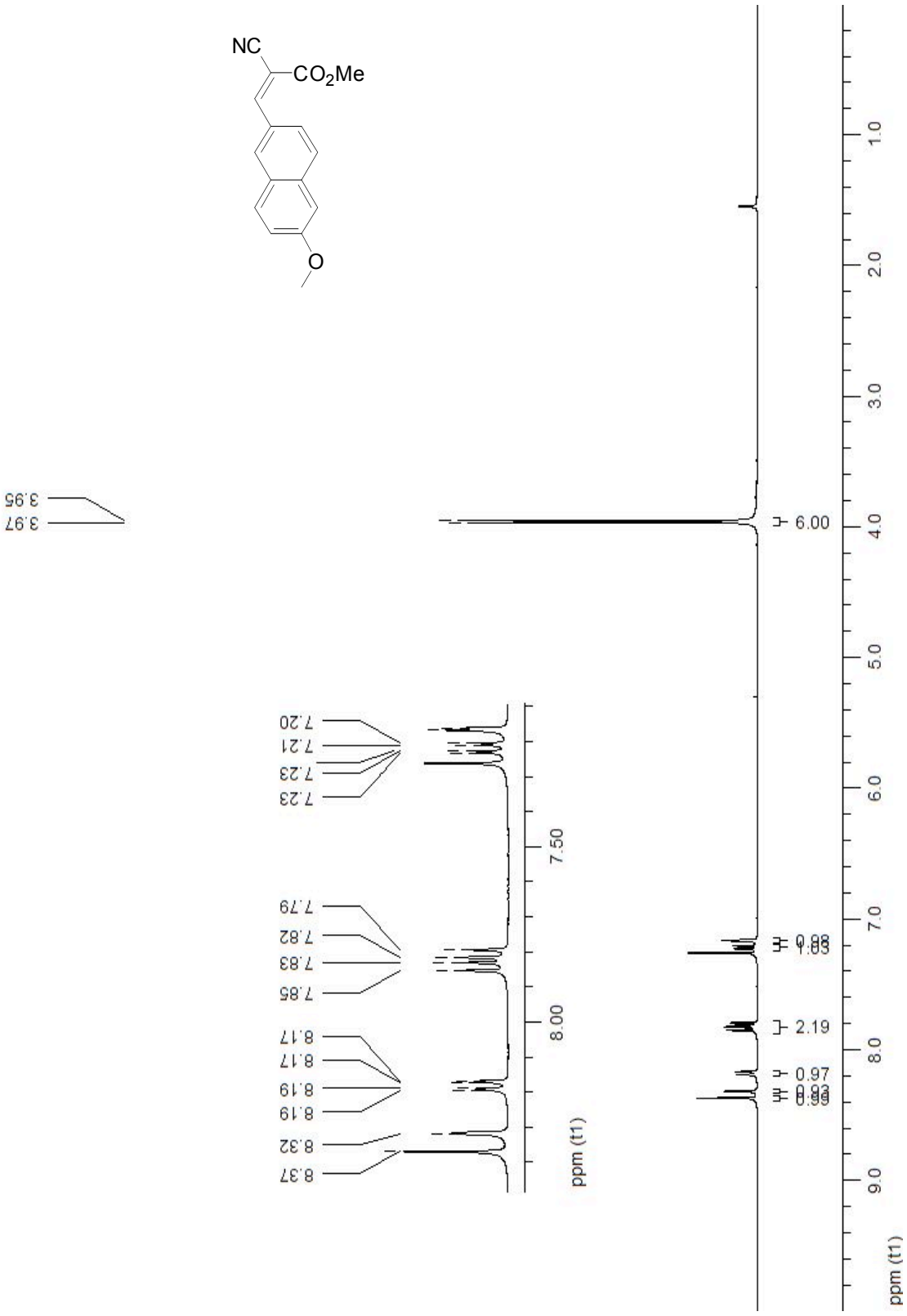
Spectrum 28. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **7**



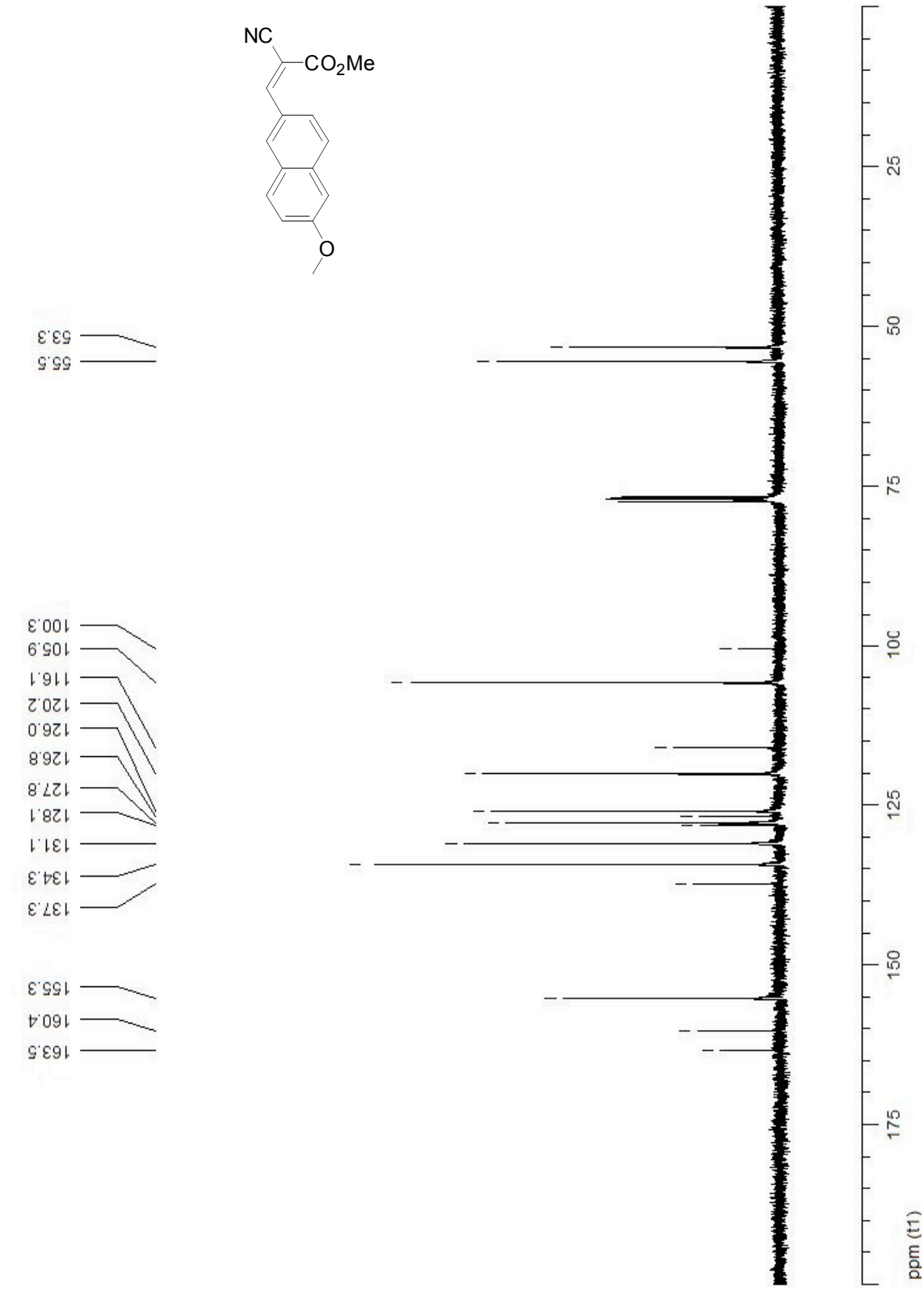
Spectrum 29. ^{1}HNMR ($CDCl_3$, 300MHz) of compound **9**



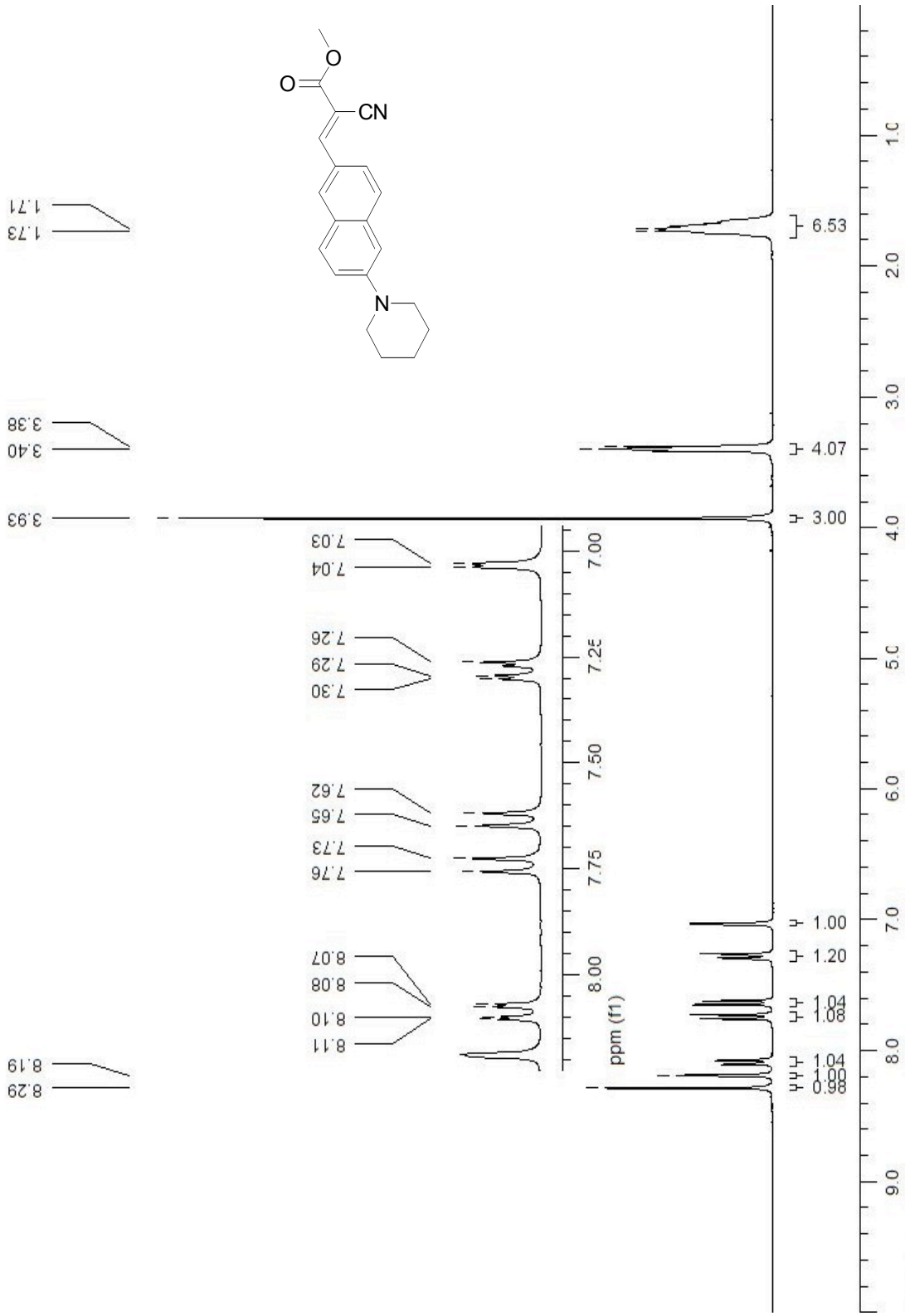
Spectrum 30. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **9**



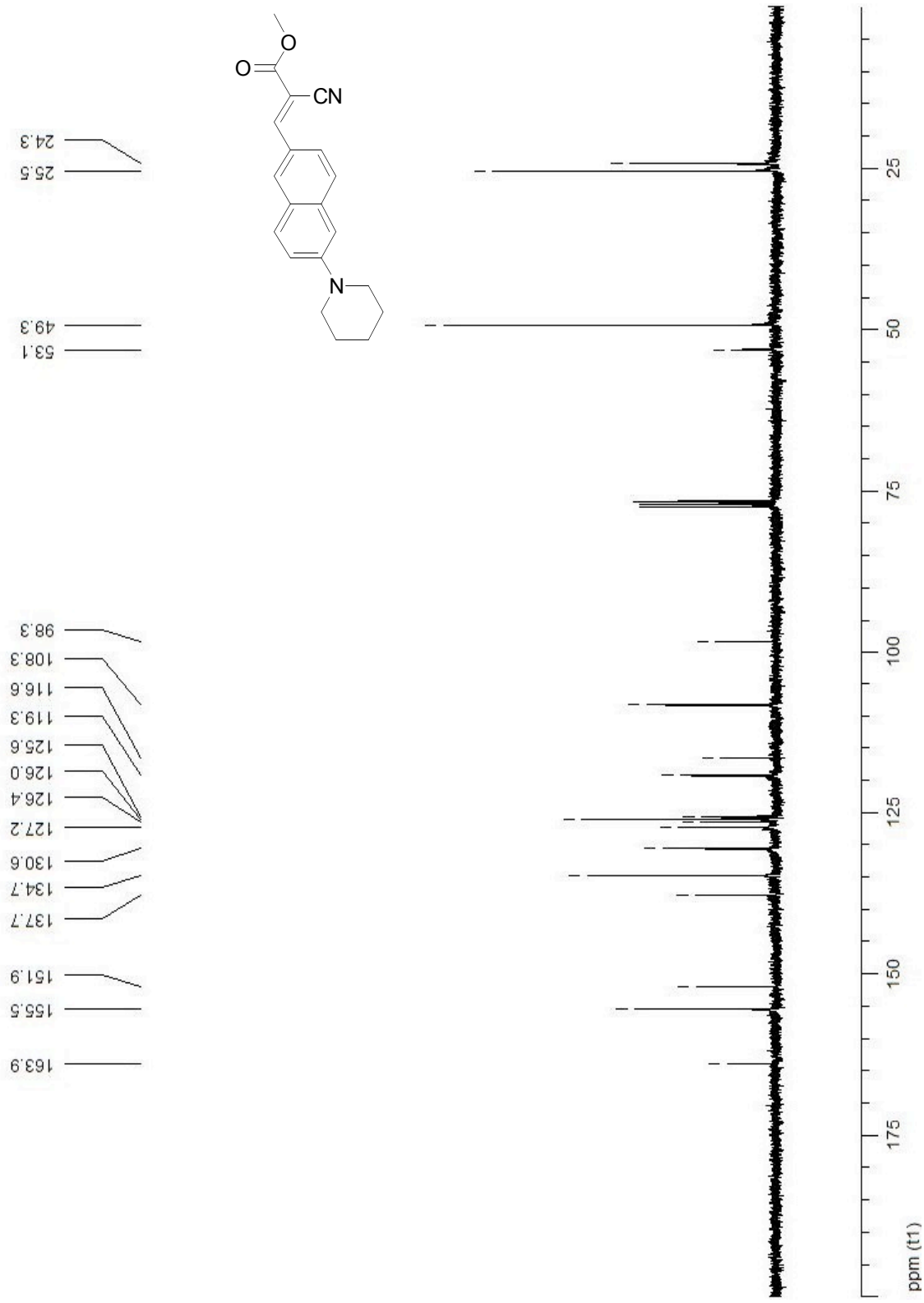
Spectrum 31. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **10**



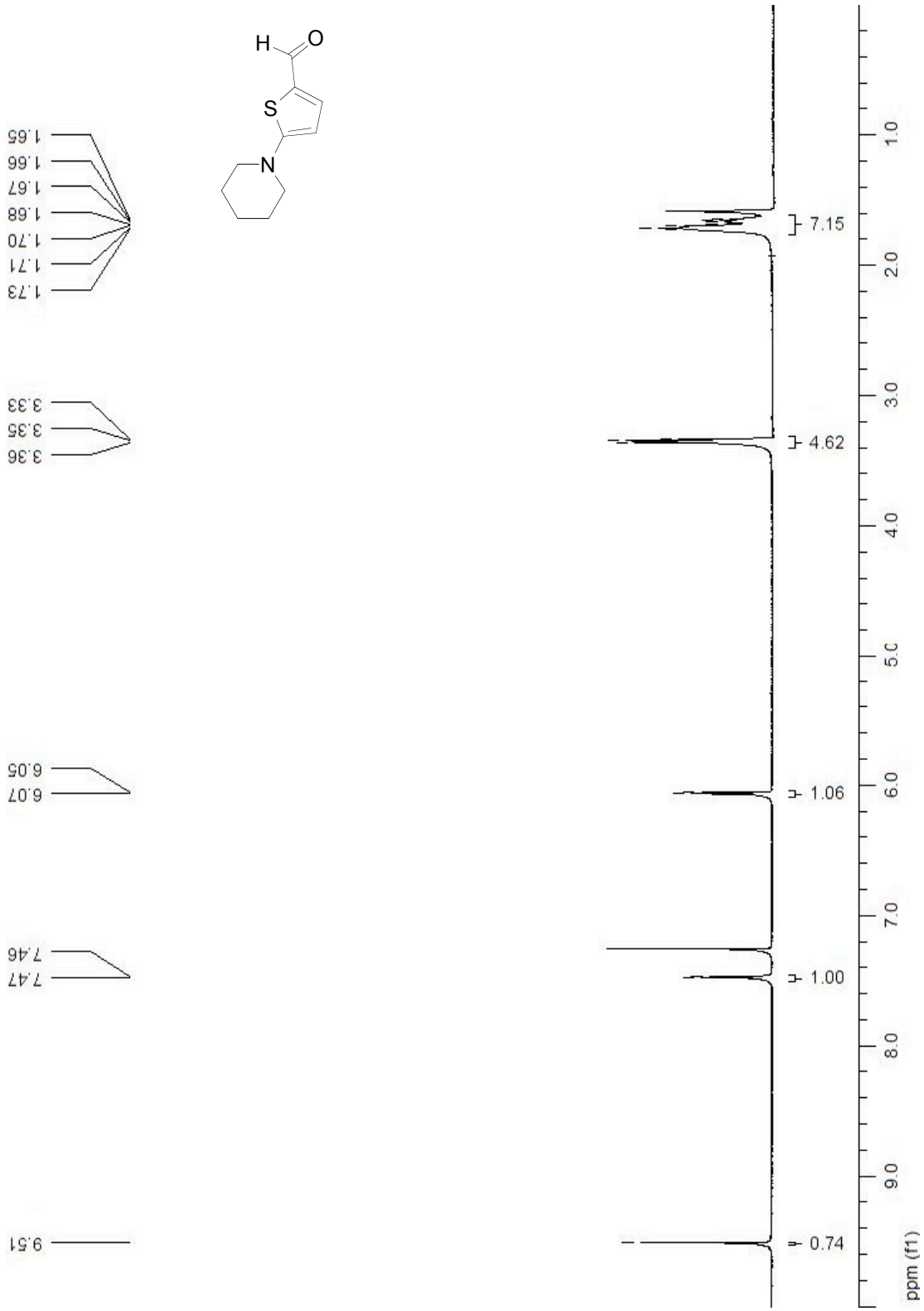
Spectrum 32. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **10**



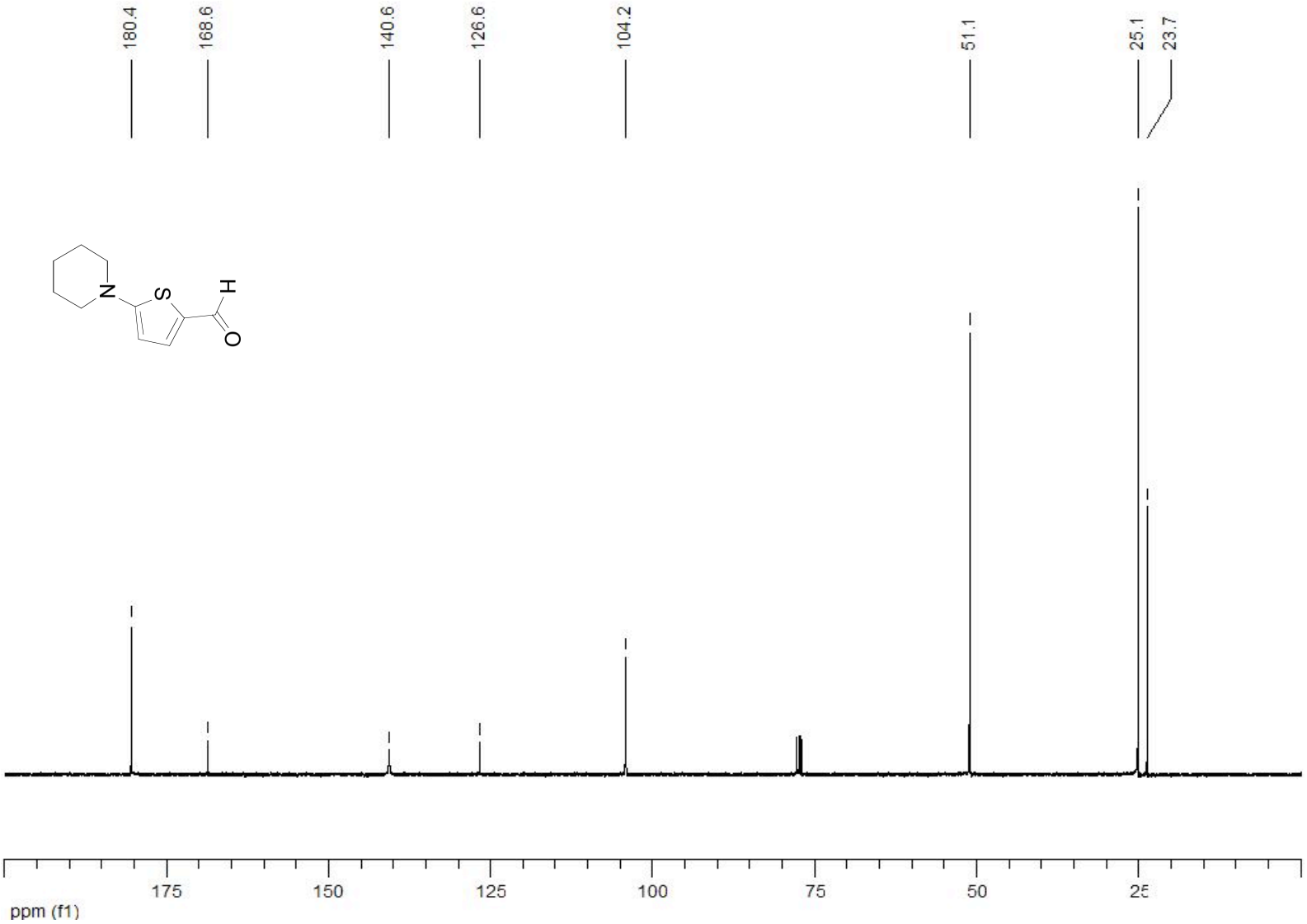
Spectrum 33. ^{1}HNMR ($CDCl_3$, 300MHz) of compound **11**



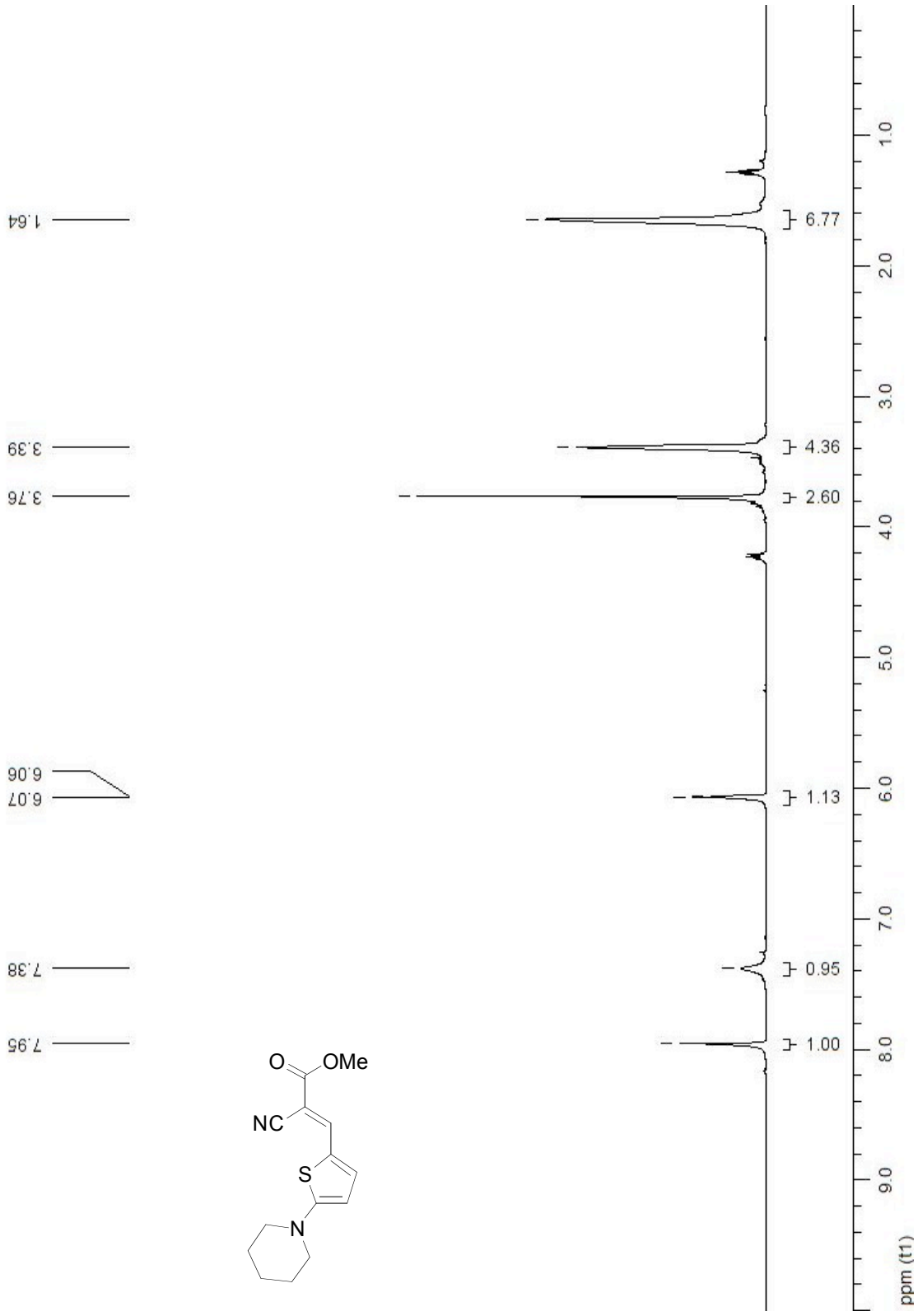
Spectrum 34. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **11**



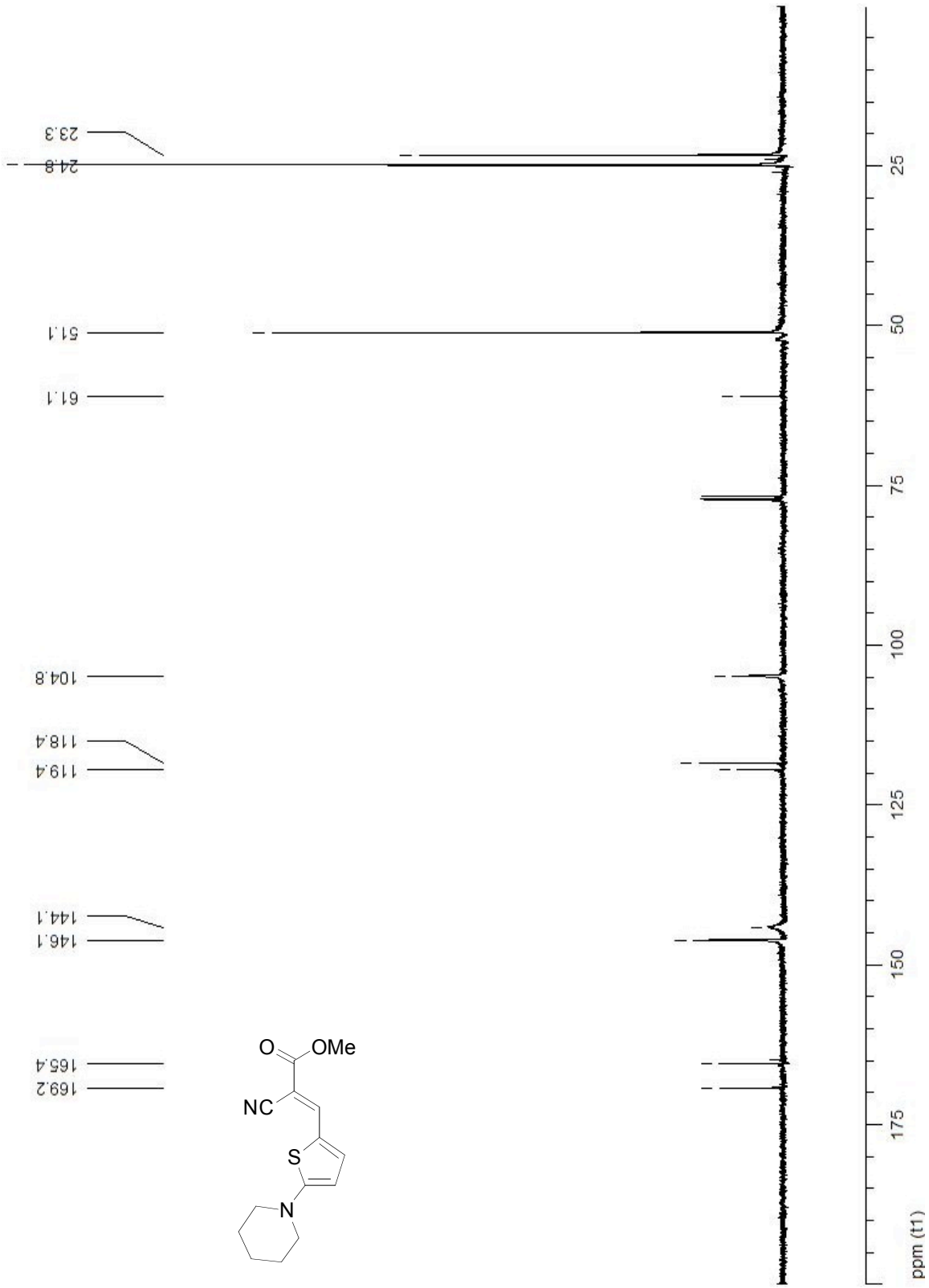
Spectrum 35. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **13**



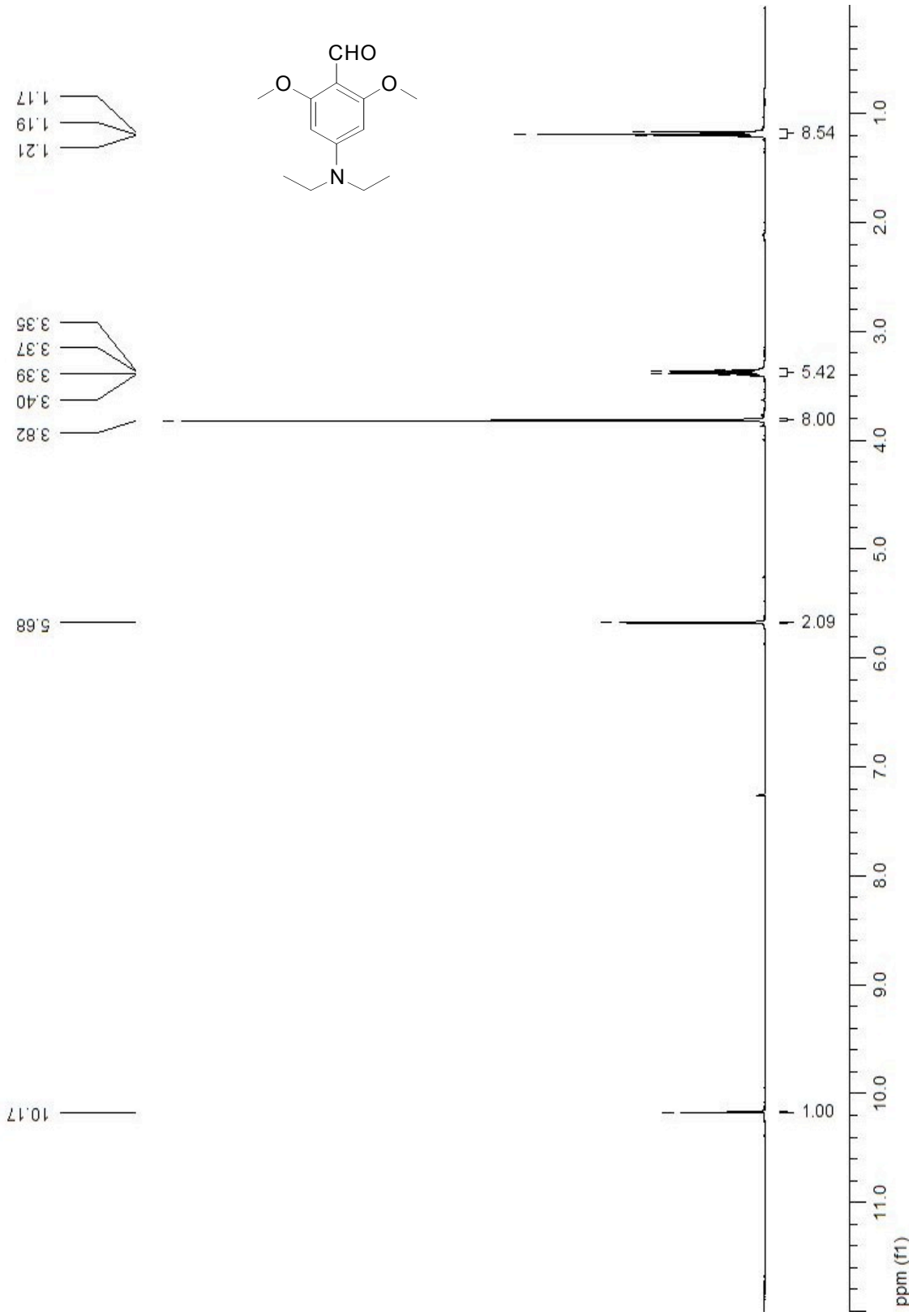
Spectrum 36. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **13**



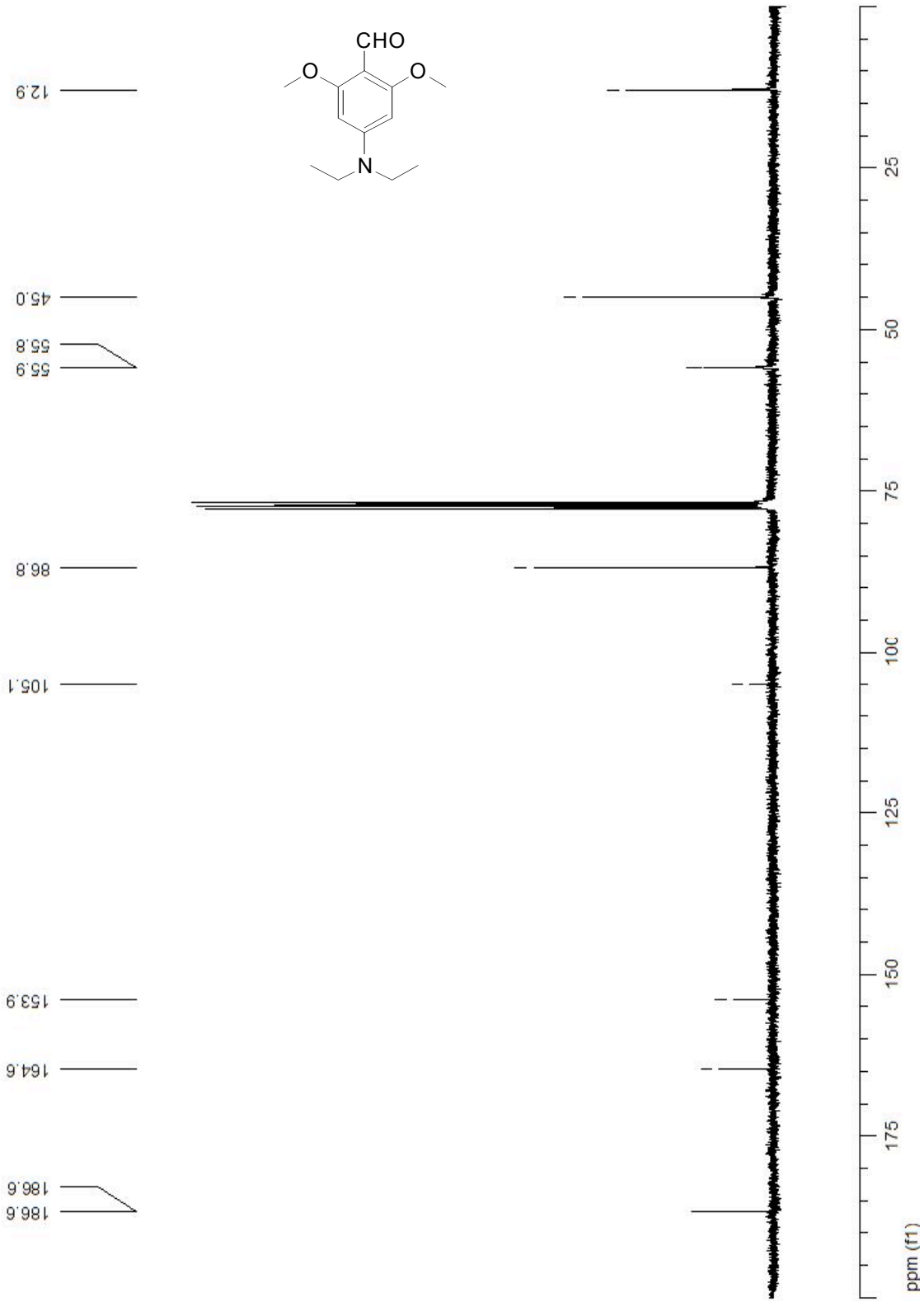
Spectrum 37. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **14**



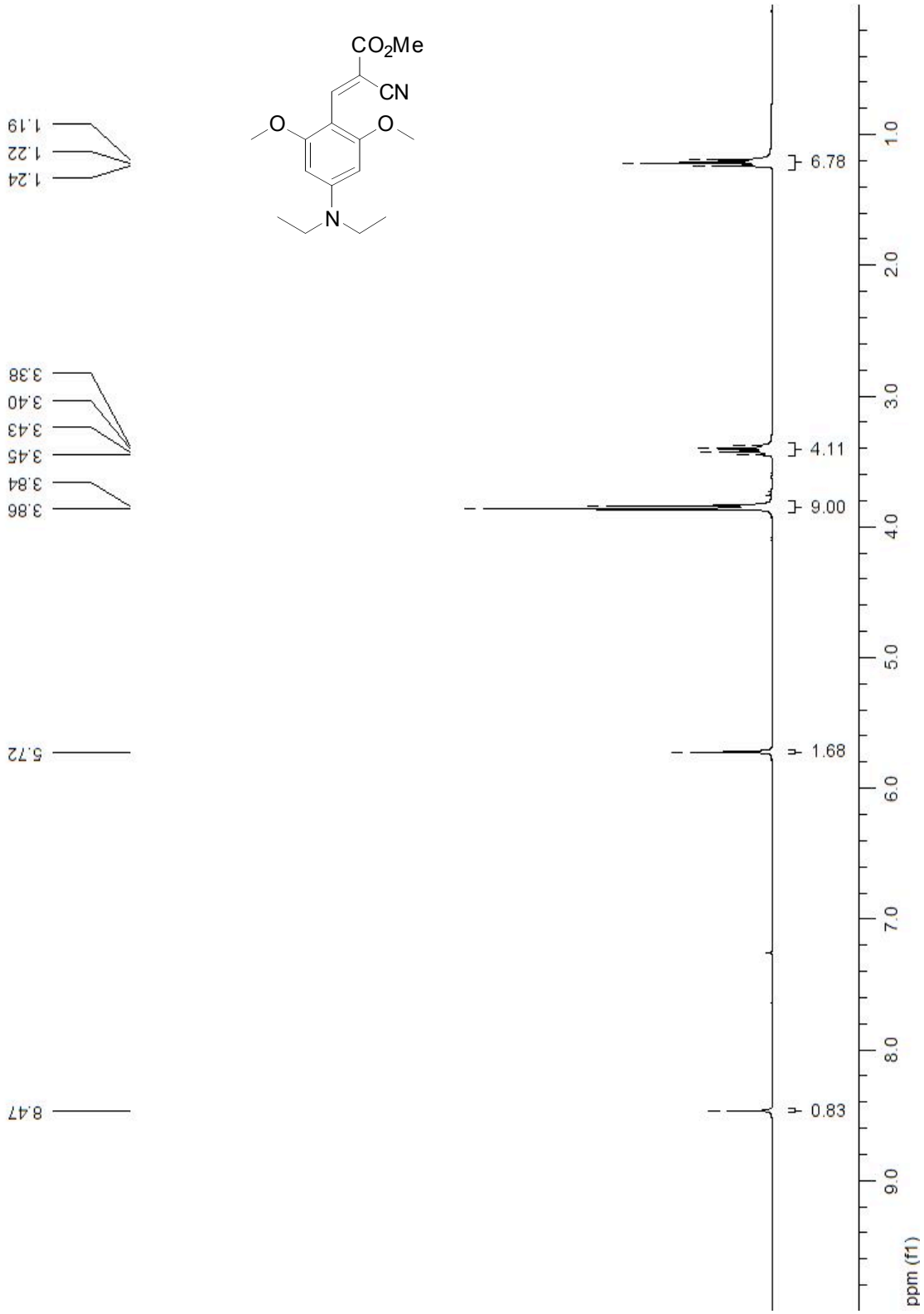
Spectrum 38. ^{13}CNMR ($CDCl_3$, 100MHz) of compound **14**



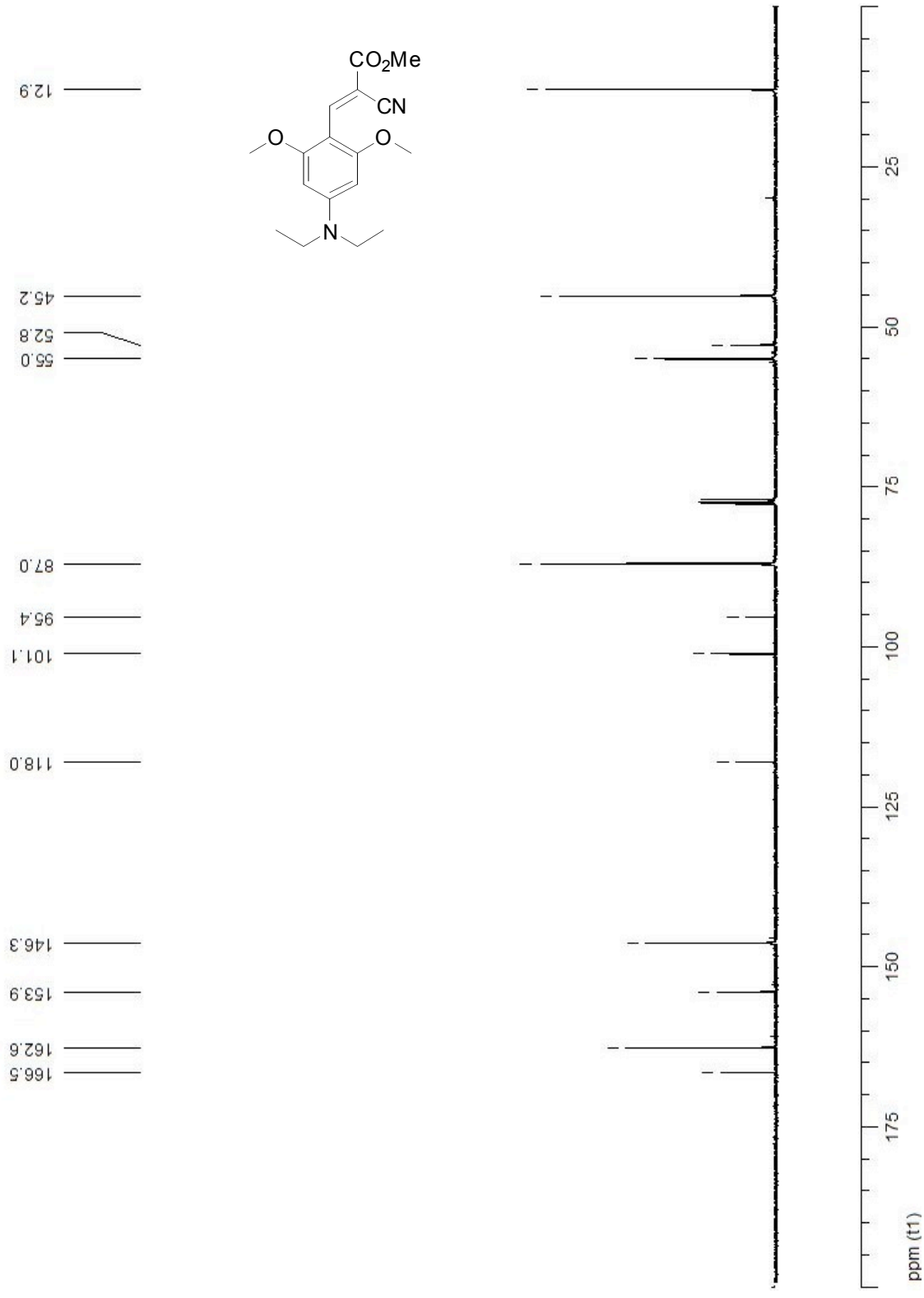
Spectrum 39. ^{1}HNMR ($CDCl_3$, 400MHz) of compound **17**



Spectrum 40. ^{13}CNMR ($CDCl_3$, 75 MHz) of compound **17**



Spectrum 41. ^{1}HNMR ($CDCl_3$, 300MHz) of compound **18**



Spectrum 42. ^{13}CNMR ($CDCl_3$, 100 MHz) of compound **18**