Copies of ^{1}H and ^{13}C NMR spectra

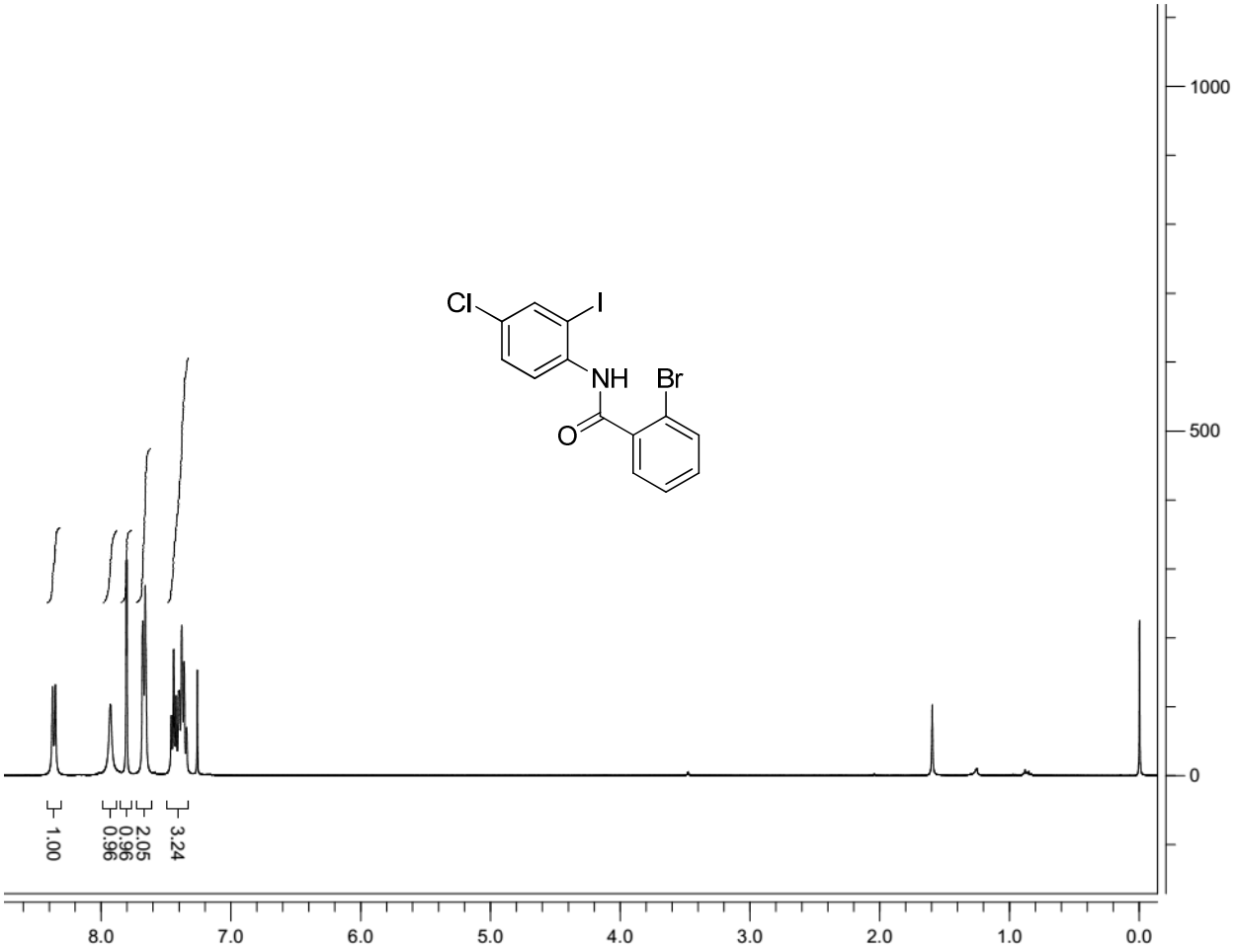

Fig. 1: ^{1}H NMR spectra of compound **S-1a** ($CDCl_3$, 400 MHz)

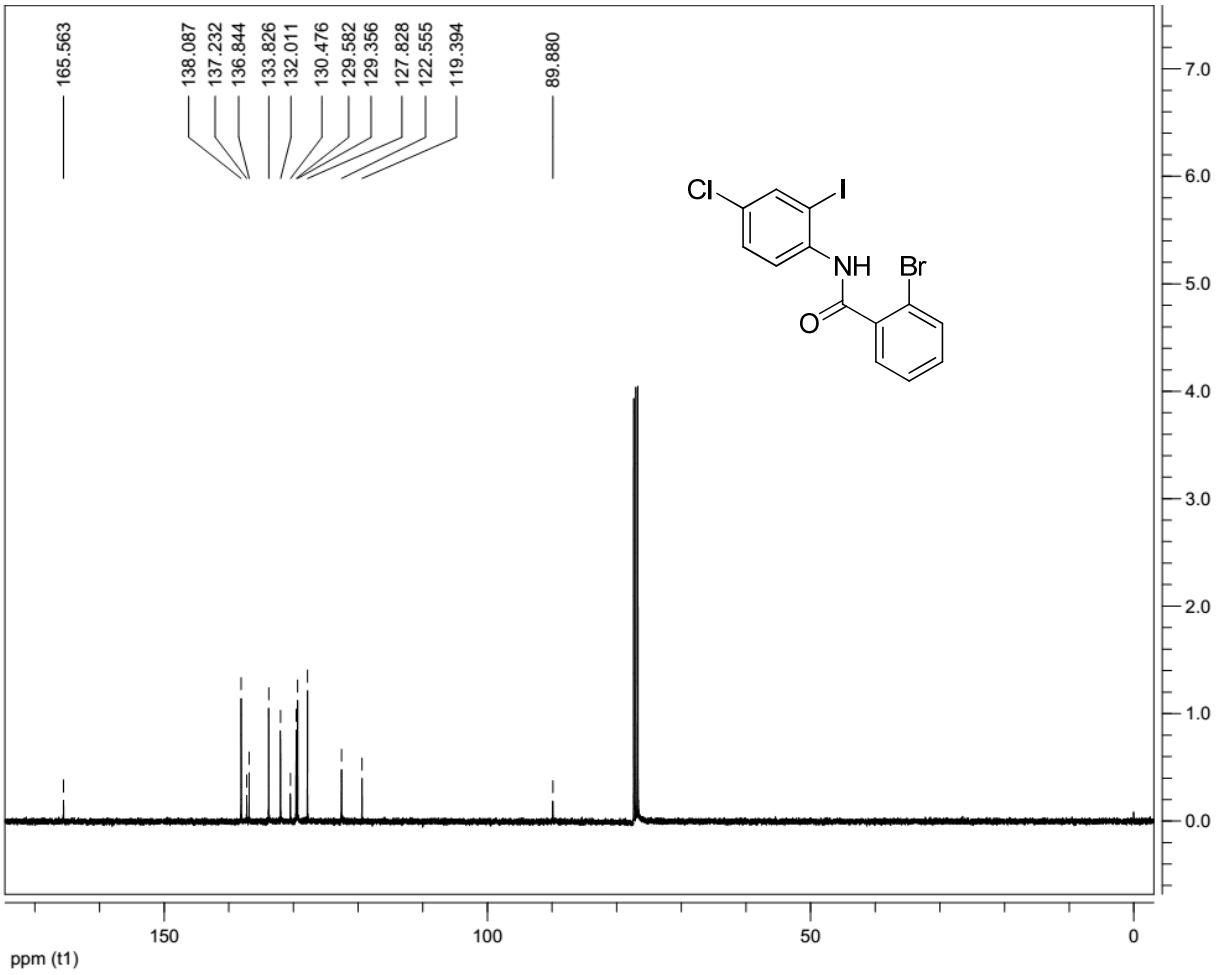

Fig. 2: ^{13}C NMR spectra of compound **S-1a** ($CDCl_3$, 100 MHz)

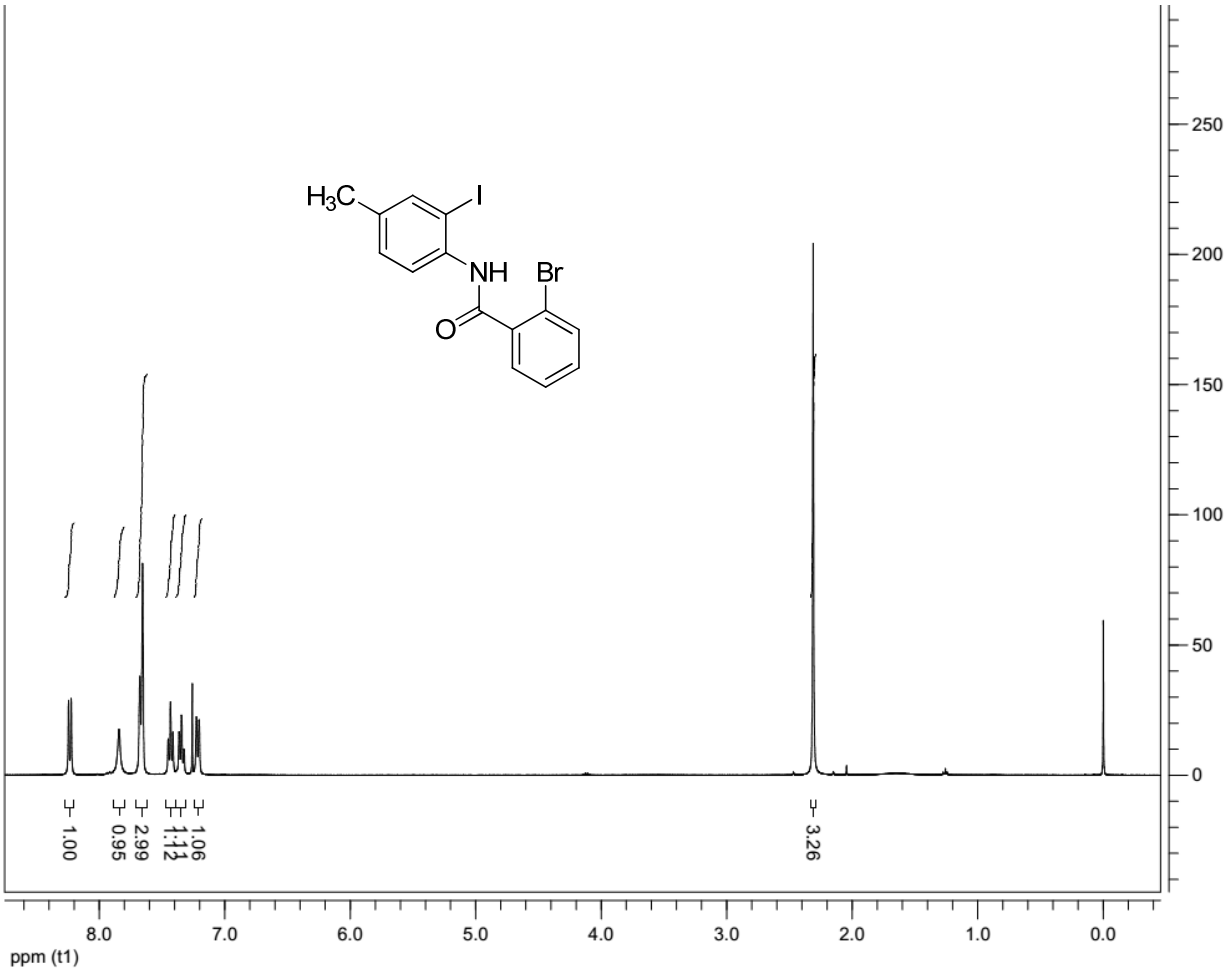

Fig. 3: ^{1}H NMR spectra of compound **S-1b** ($CDCl_3$, 400 MHz)

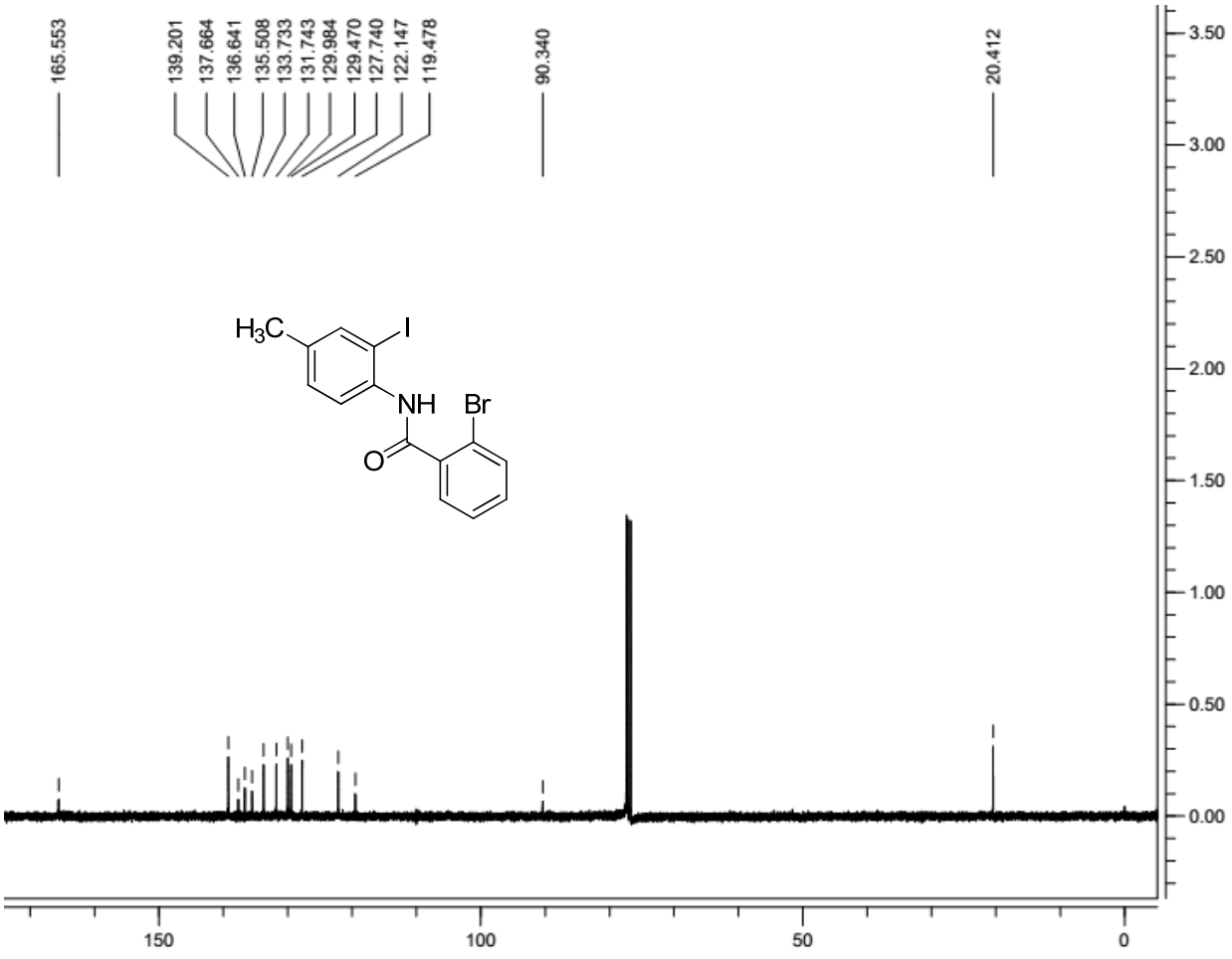

Fig. 4: ^{13}C NMR spectra of compound **S-1b** ($CDCl_3$, 100 MHz)

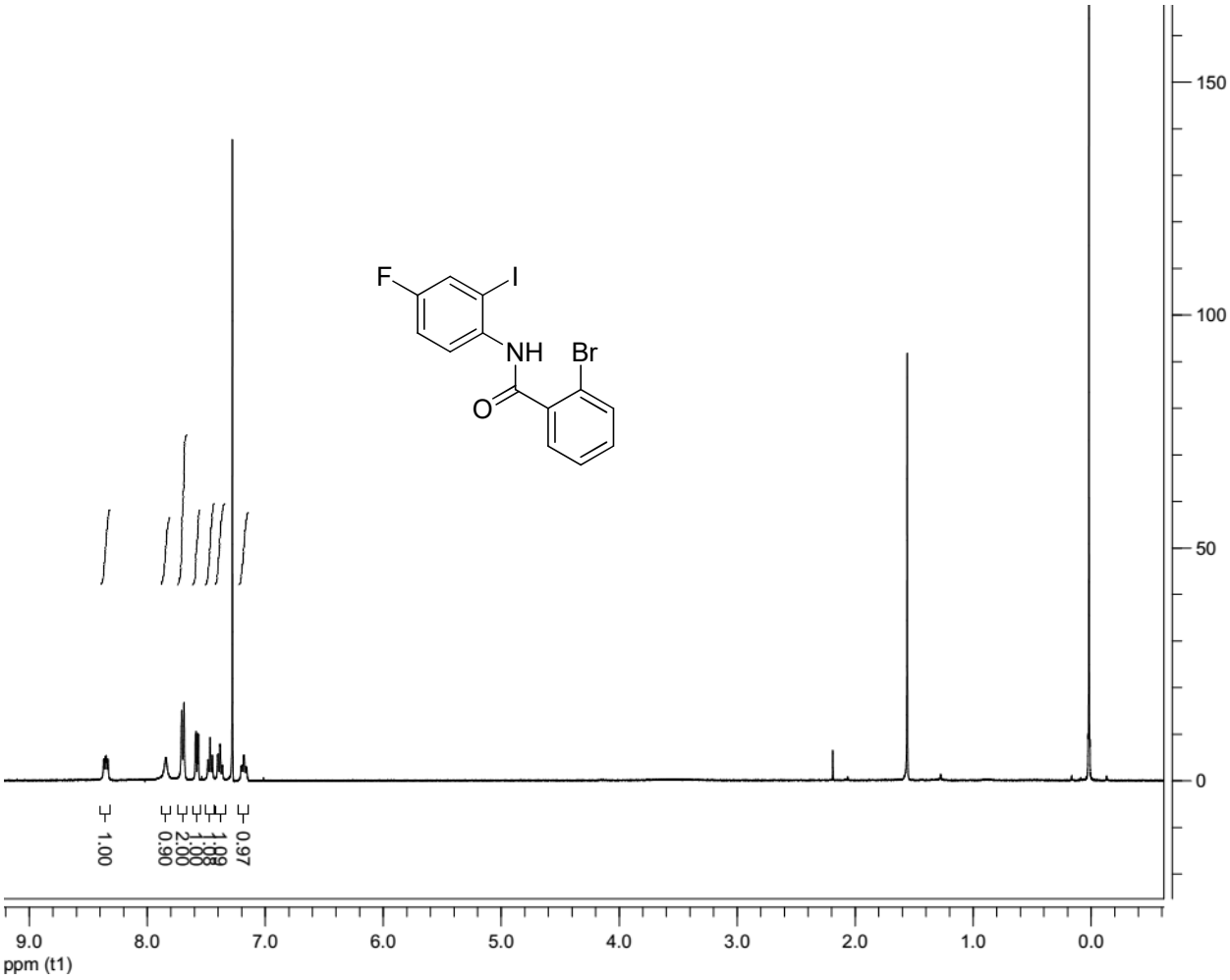

Fig. 5: ^{1}H NMR spectra of compound **S-1c** ($CDCl_3$, 400 MHz)

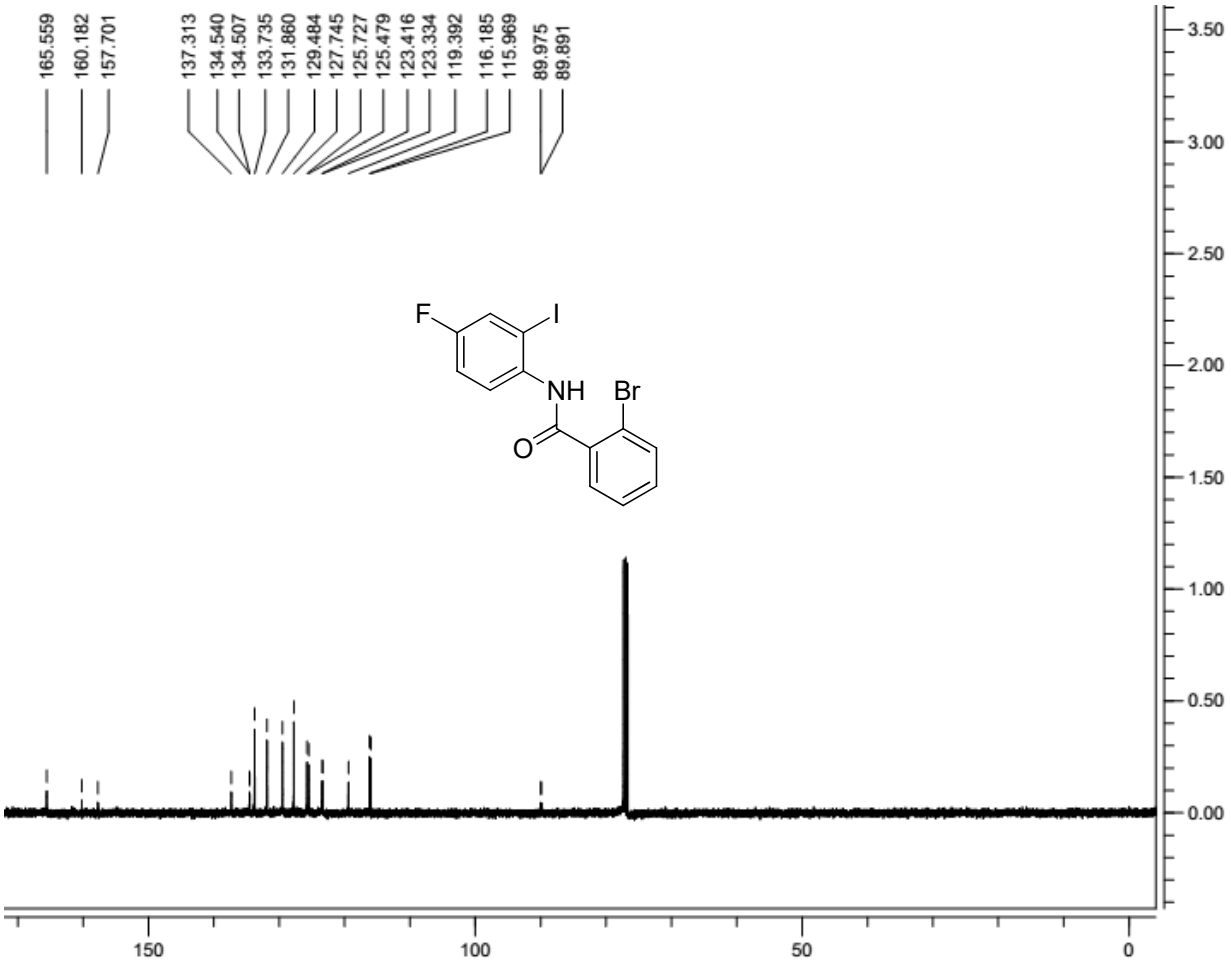

Fig. 6: ^{13}C NMR spectra of compound **S-1c** ($CDCl_3$, 100 MHz)

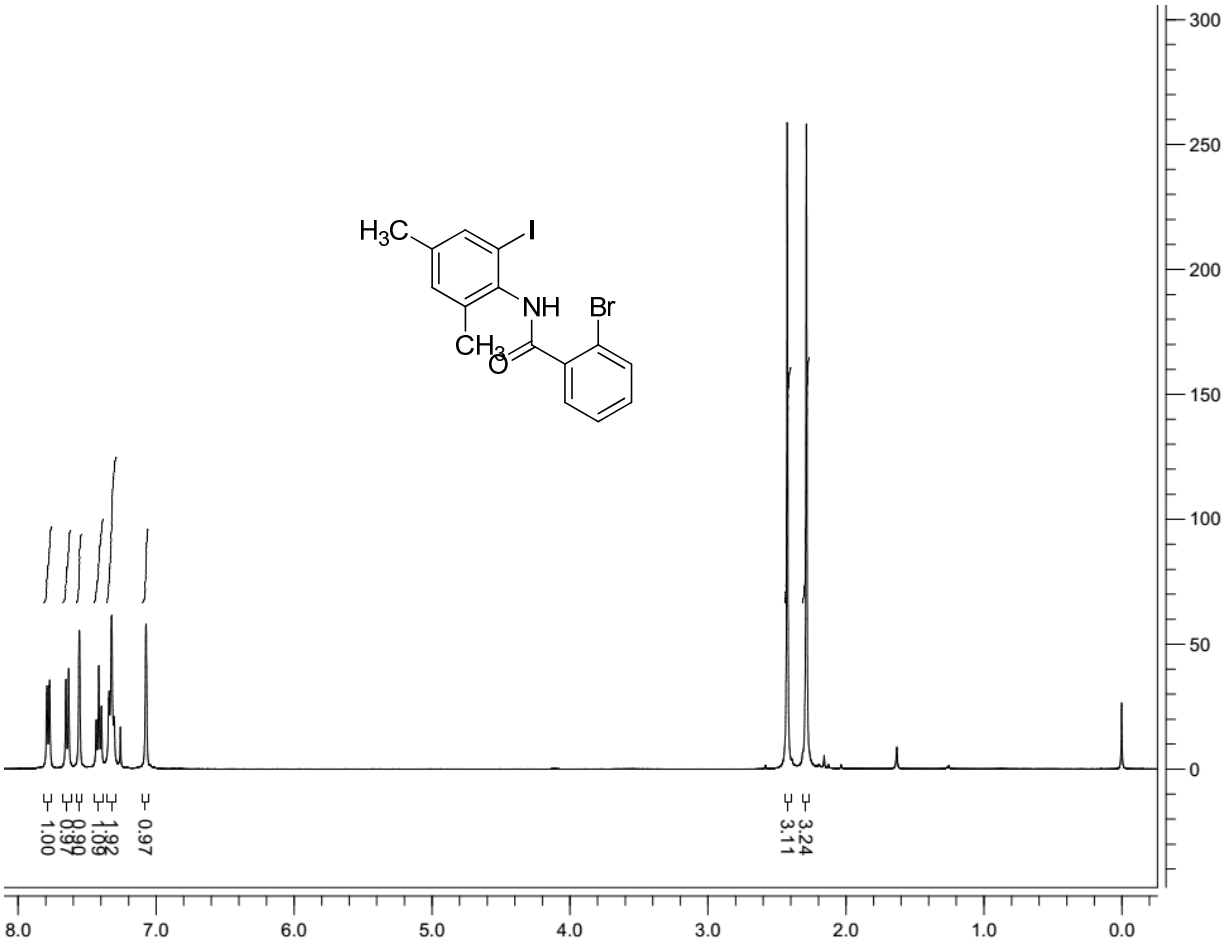

Fig. 7: ^{1}H NMR spectra of compound **S-1e** ($CDCl_3$, 400 MHz)

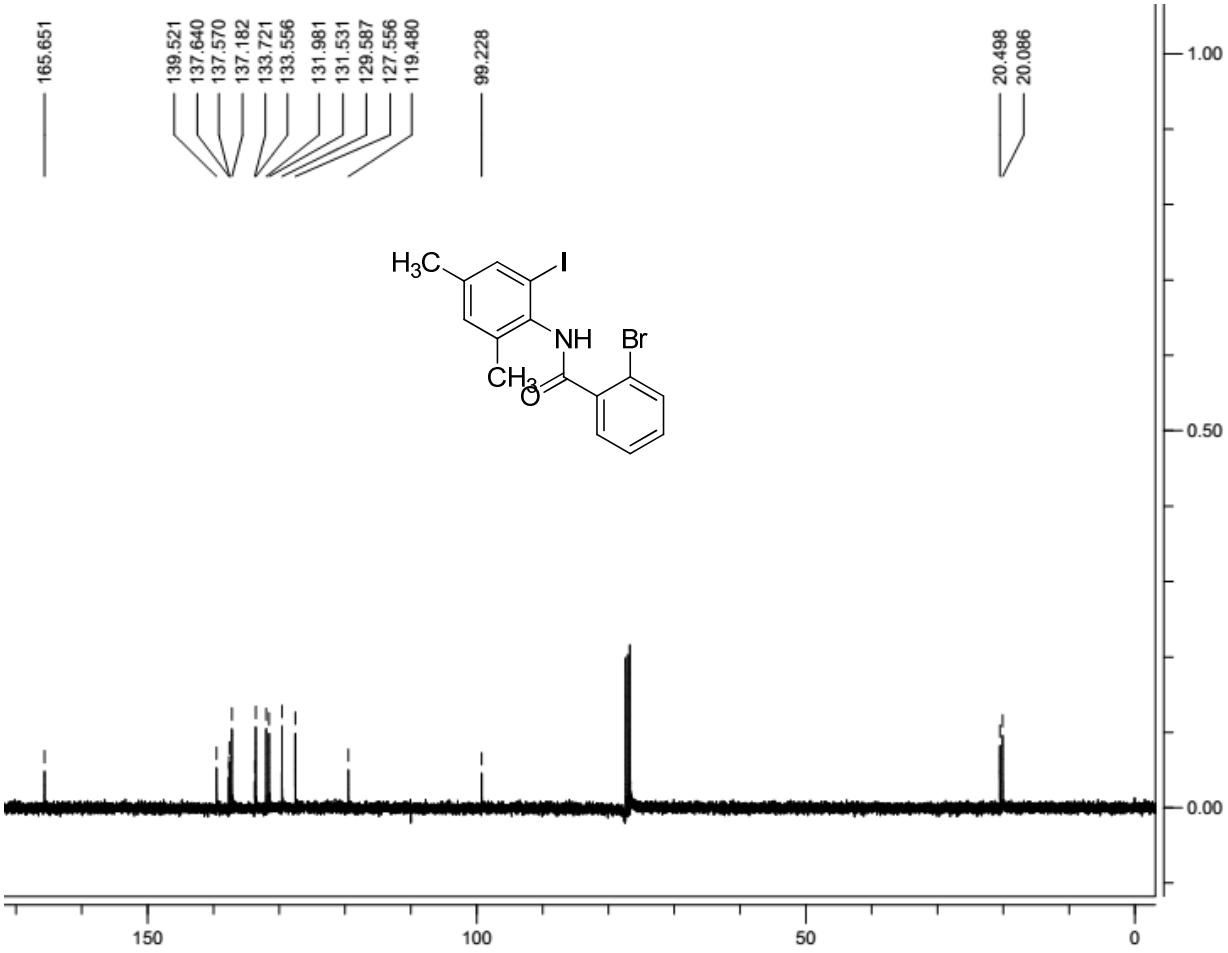

Fig. 8: ^{13}C NMR spectra of compound **S-1e** ($CDCl_3$, 100 MHz)

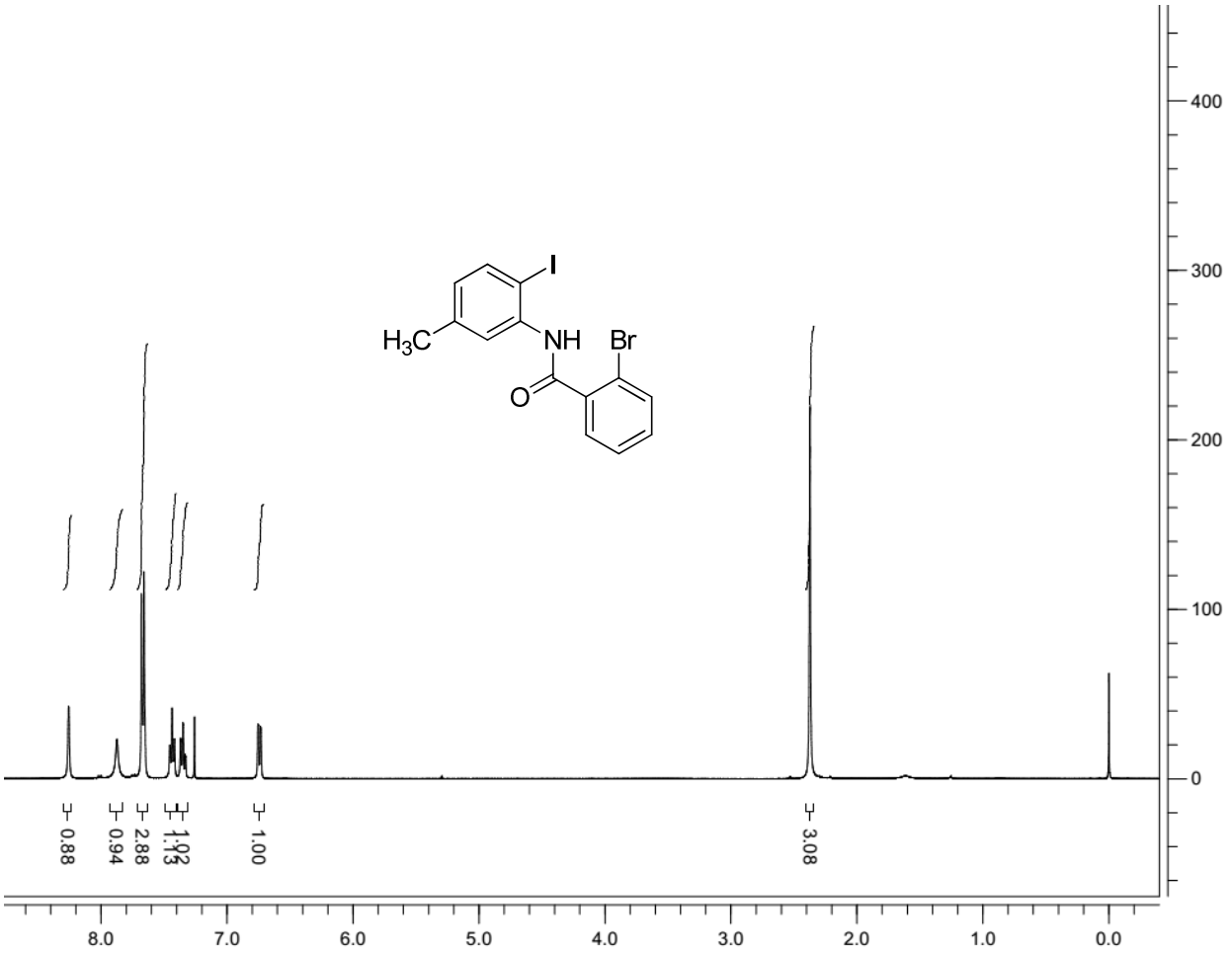

Fig. 9: ^{1}H NMR spectra of compound **S-1f** ($CDCl_3$, 400 MHz)

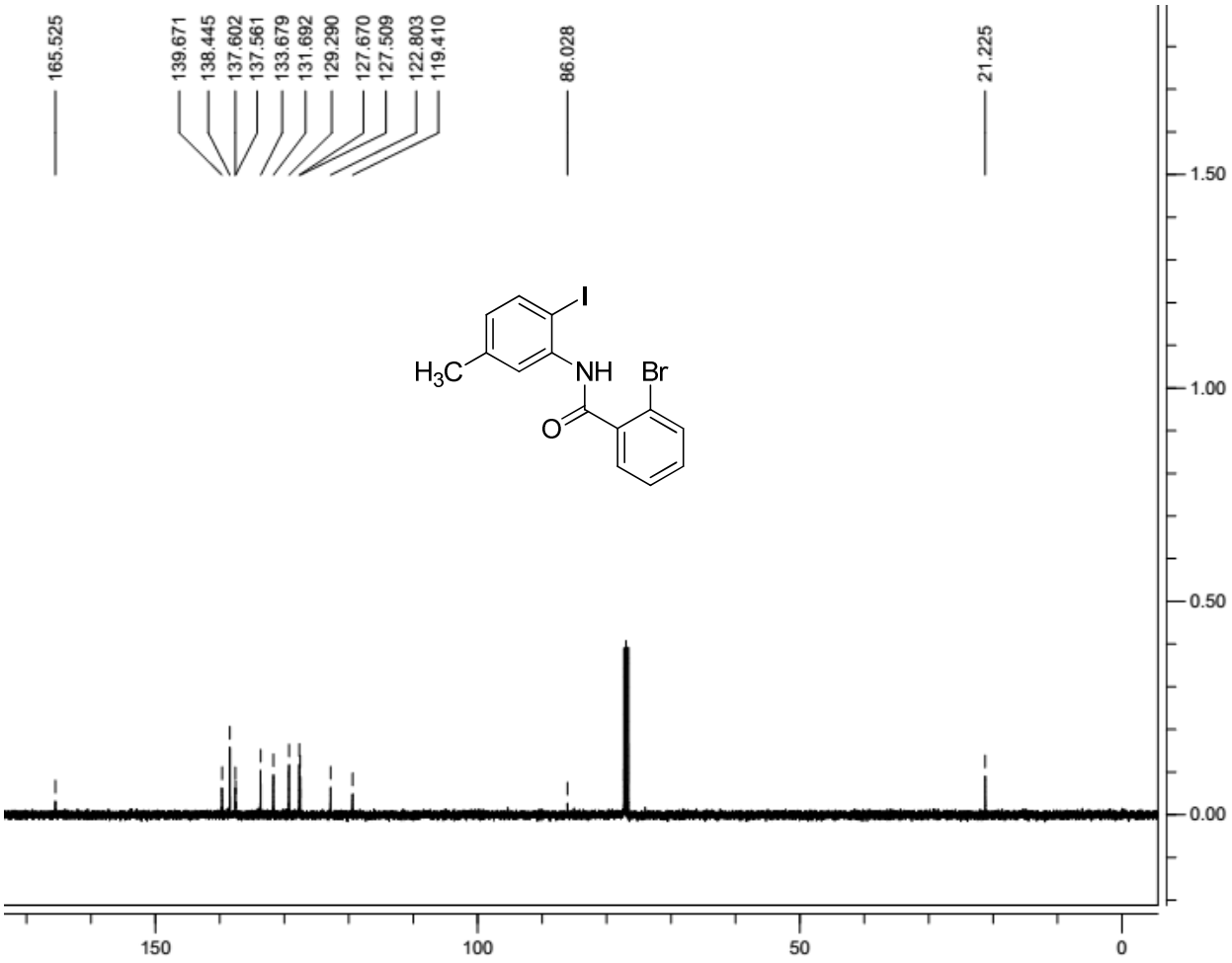

Fig. 10: ^{13}C NMR spectra of compound **S-1f** ($CDCl_3$, 100 MHz)

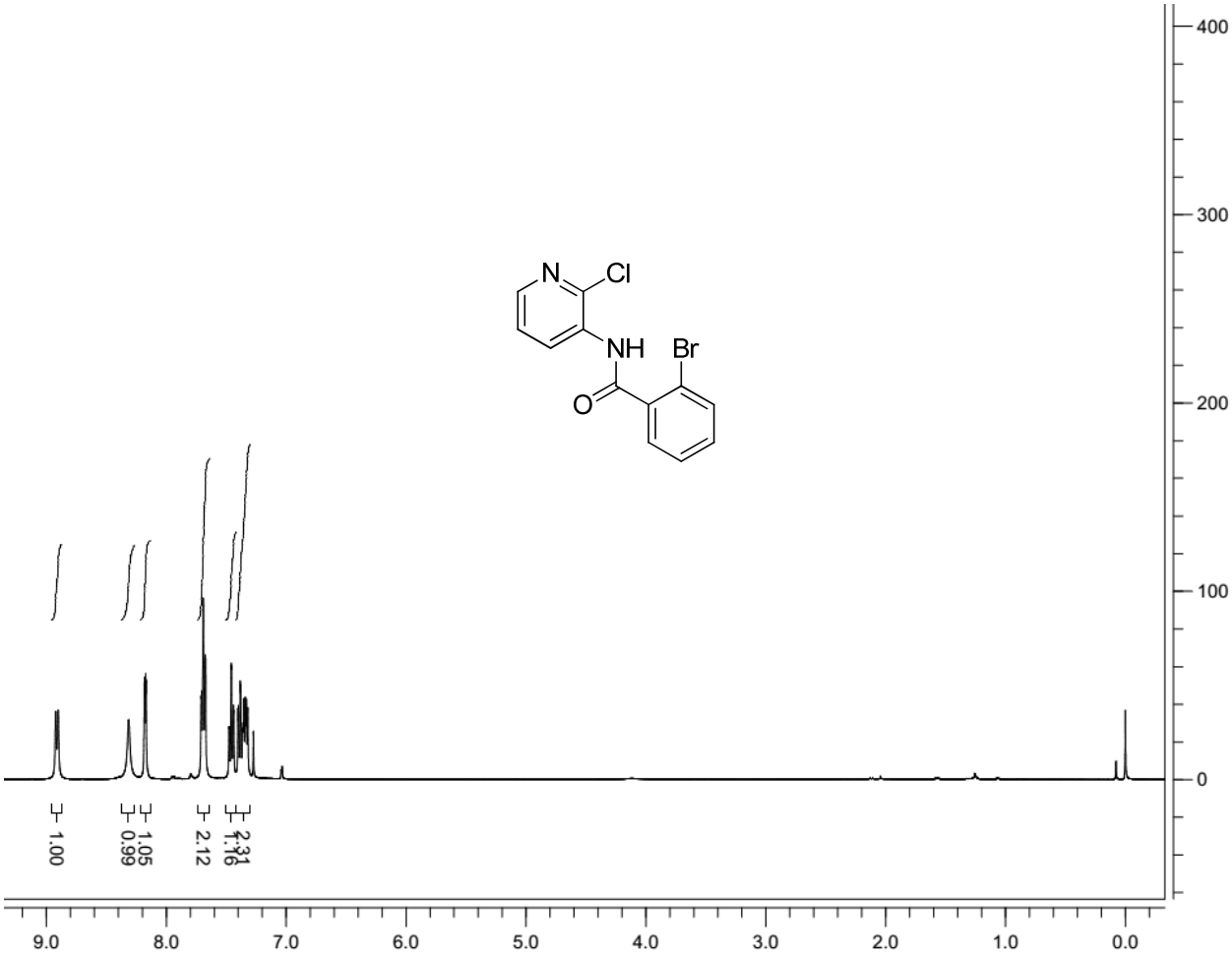

Fig. 11: ^{1}H NMR spectra of compound **S-1g** ($CDCl_3$, 400 MHz)

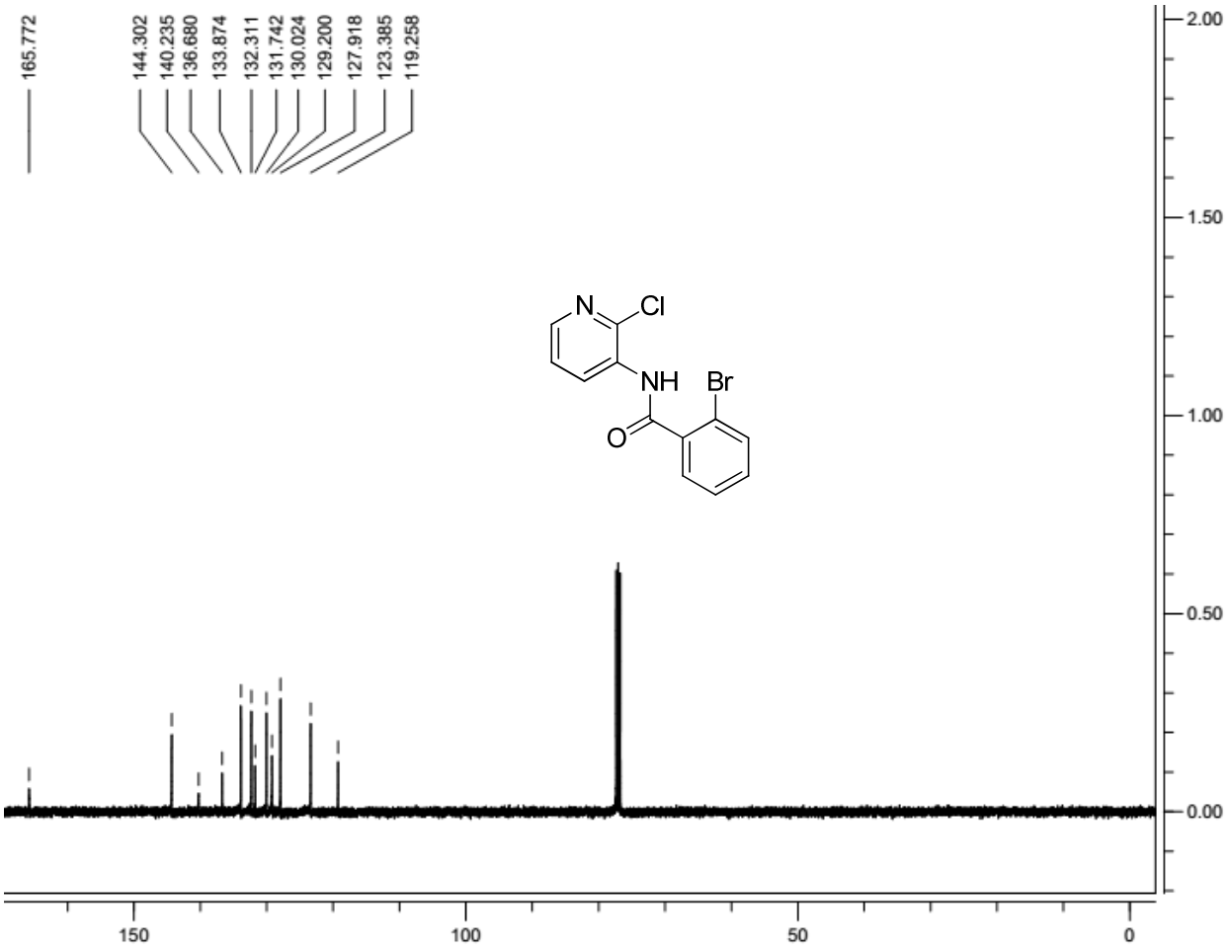

Fig. 12: ^{13}C NMR spectra of compound **S-1g** ($CDCl_3$, 100 MHz)

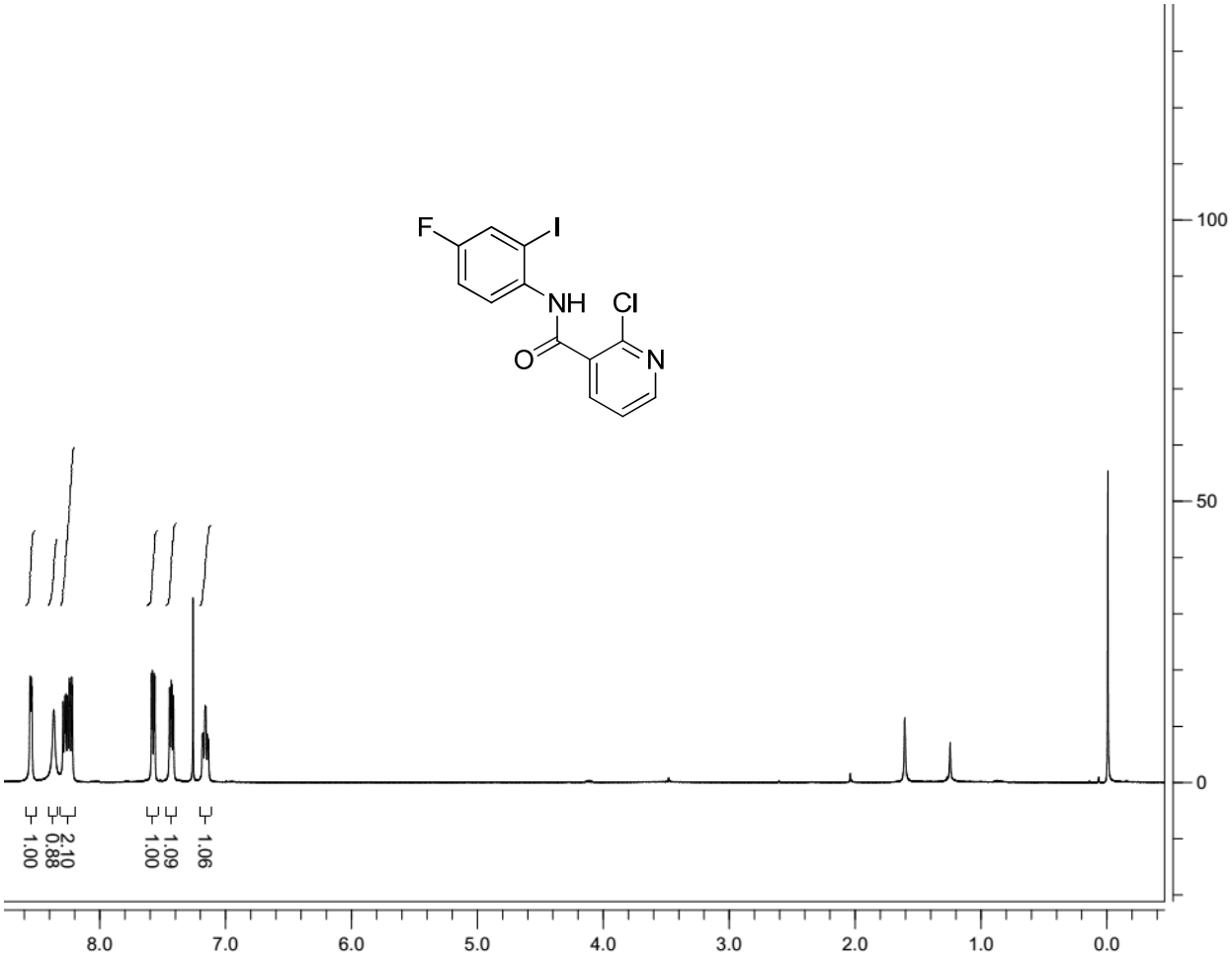

Fig. 13: ^{1}H NMR spectra of compound **S-1h** ($CDCl_3$, 400 MHz)

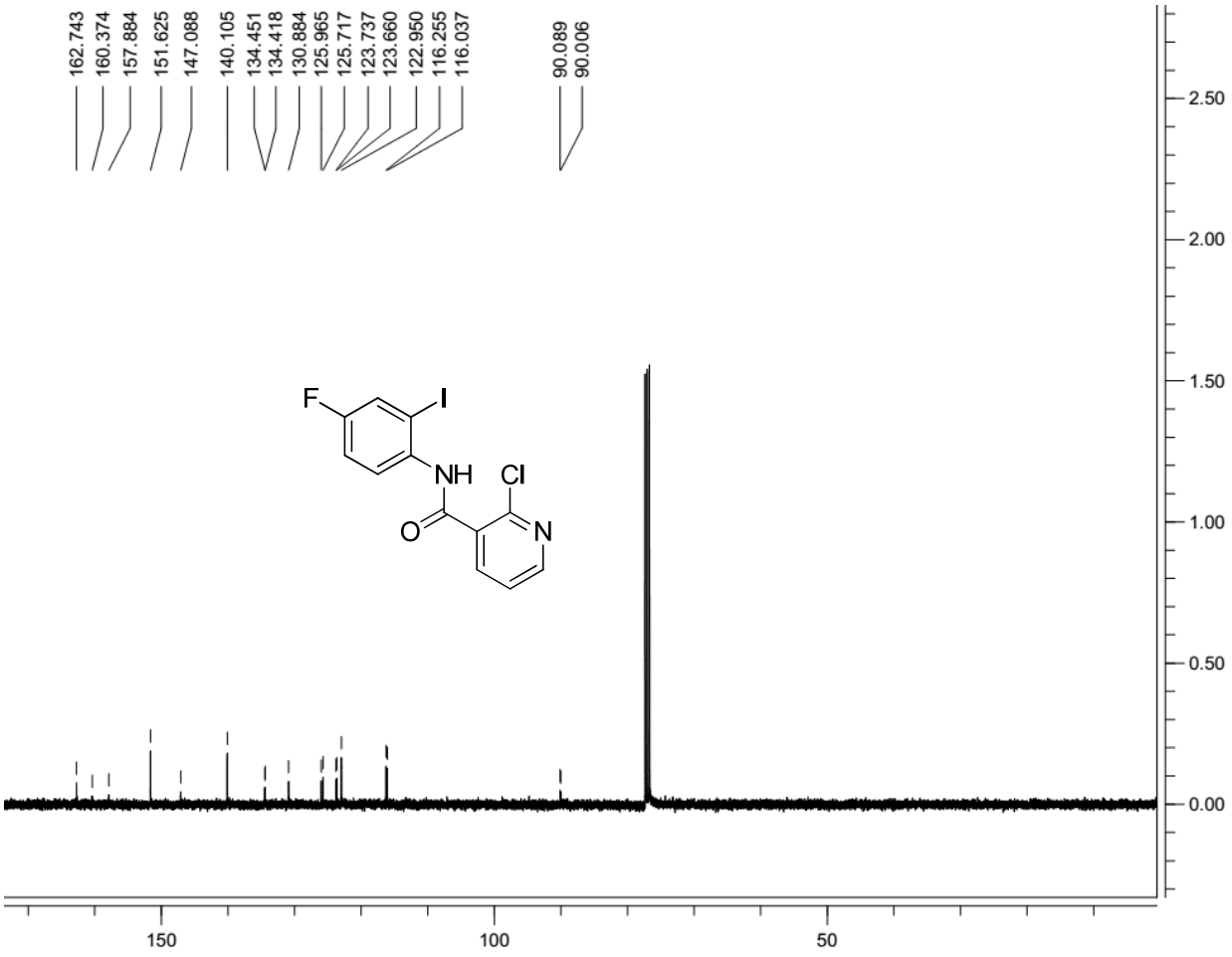

Fig. 14: ^{13}C NMR spectra of compound **S-1h** ($CDCl_3$, 100 MHz)

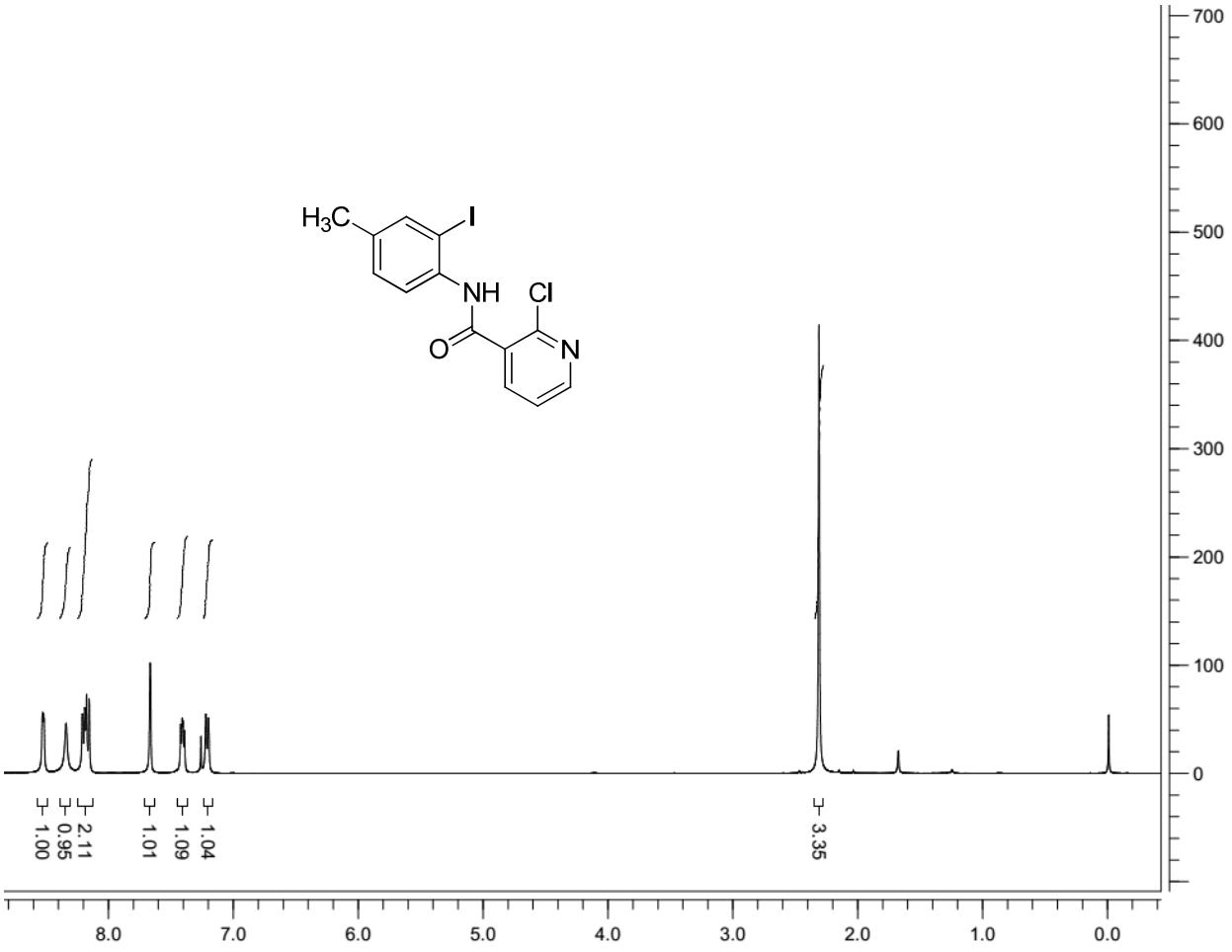

Fig. 15: ^{1}H NMR spectra of compound **S-1i** ($CDCl_3$, 400 MHz)

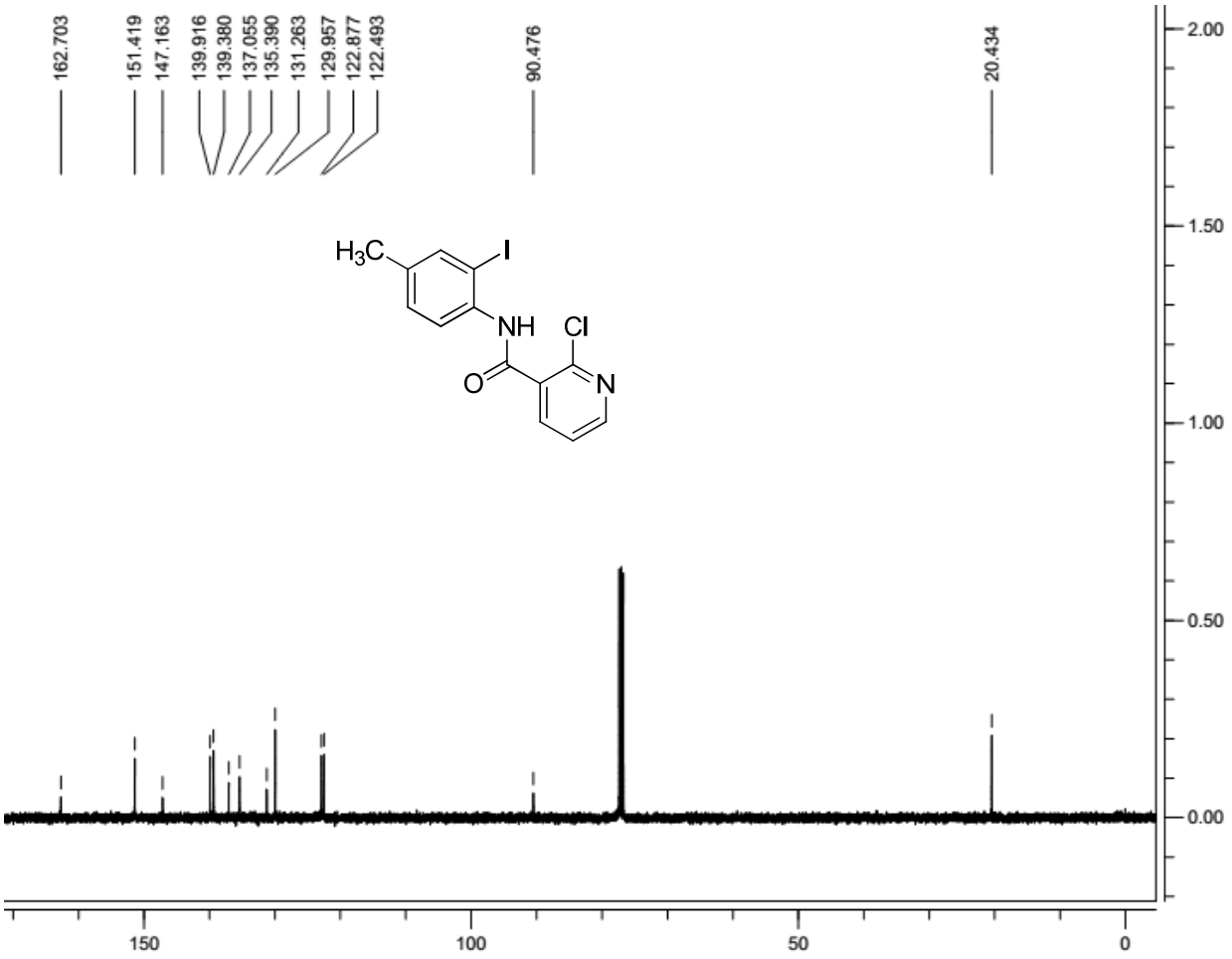

Fig. 16: ^{13}C NMR spectra of compound **S-1i** ($CDCl_3$, 100 MHz)

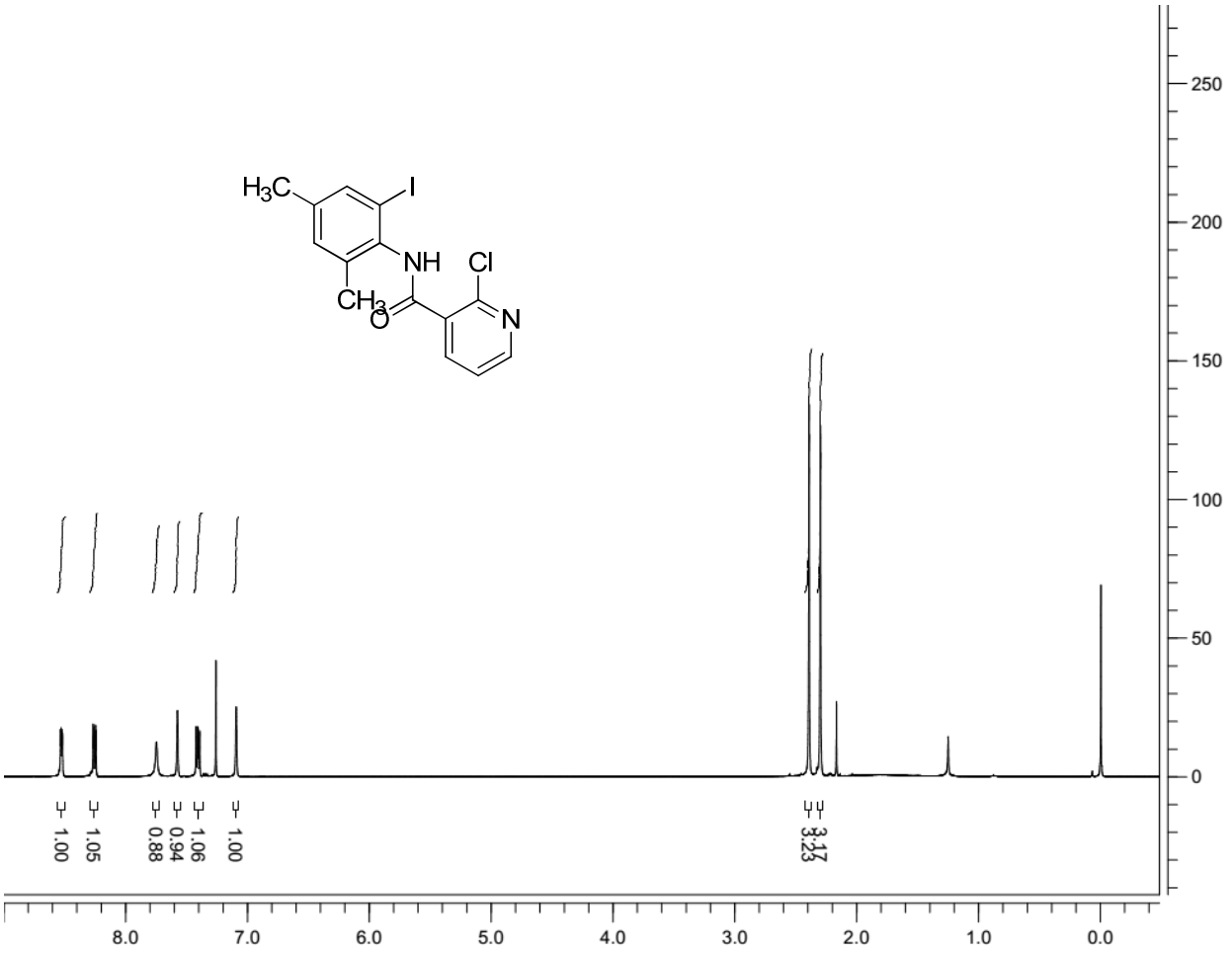

Fig. 17: ^{1}H NMR spectra of compound **S-1j** ($CDCl_3$, 400 MHz)

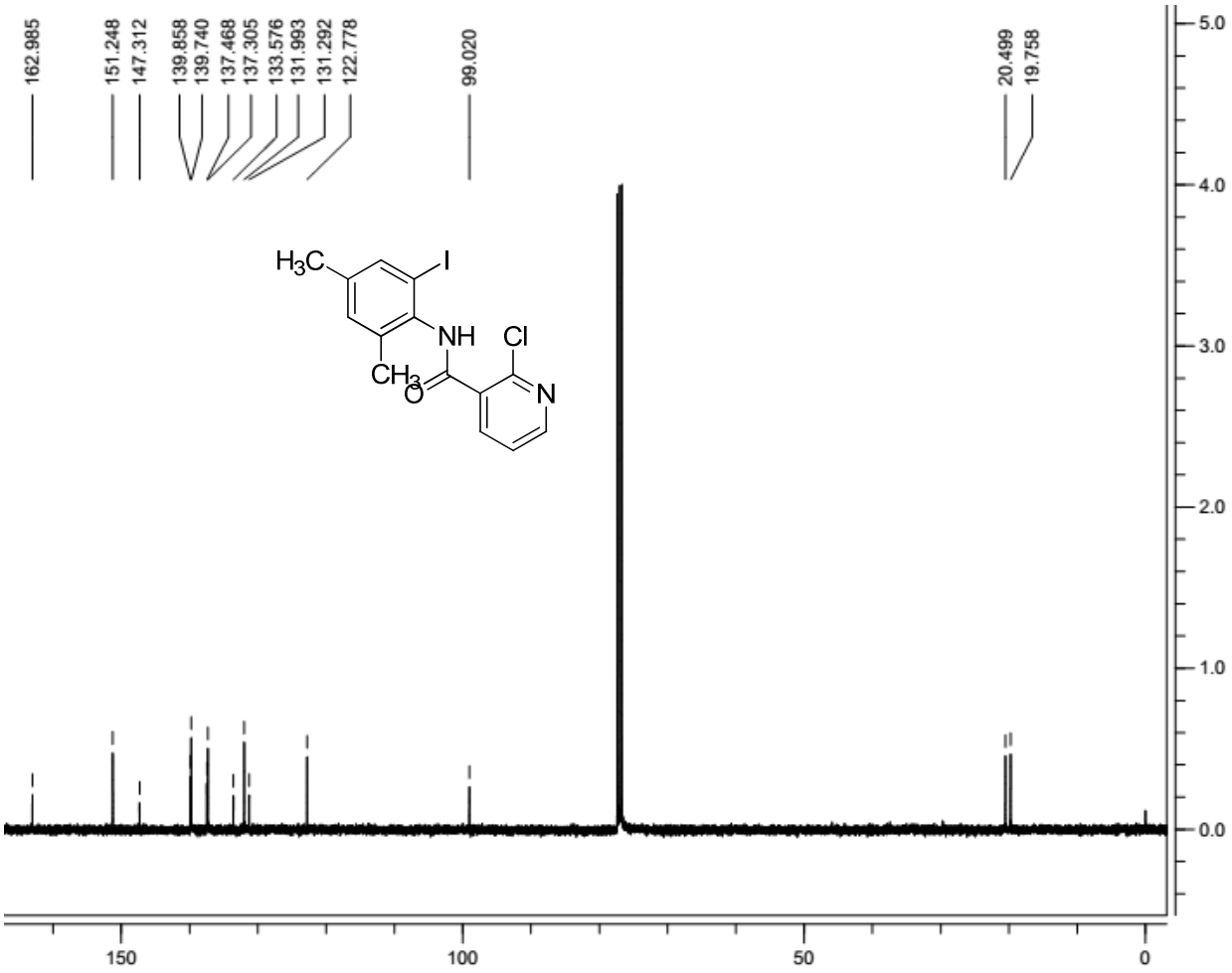

Fig. 18: ^{13}C NMR spectra of compound **S-1j** ($CDCl_3$, 100 MHz)

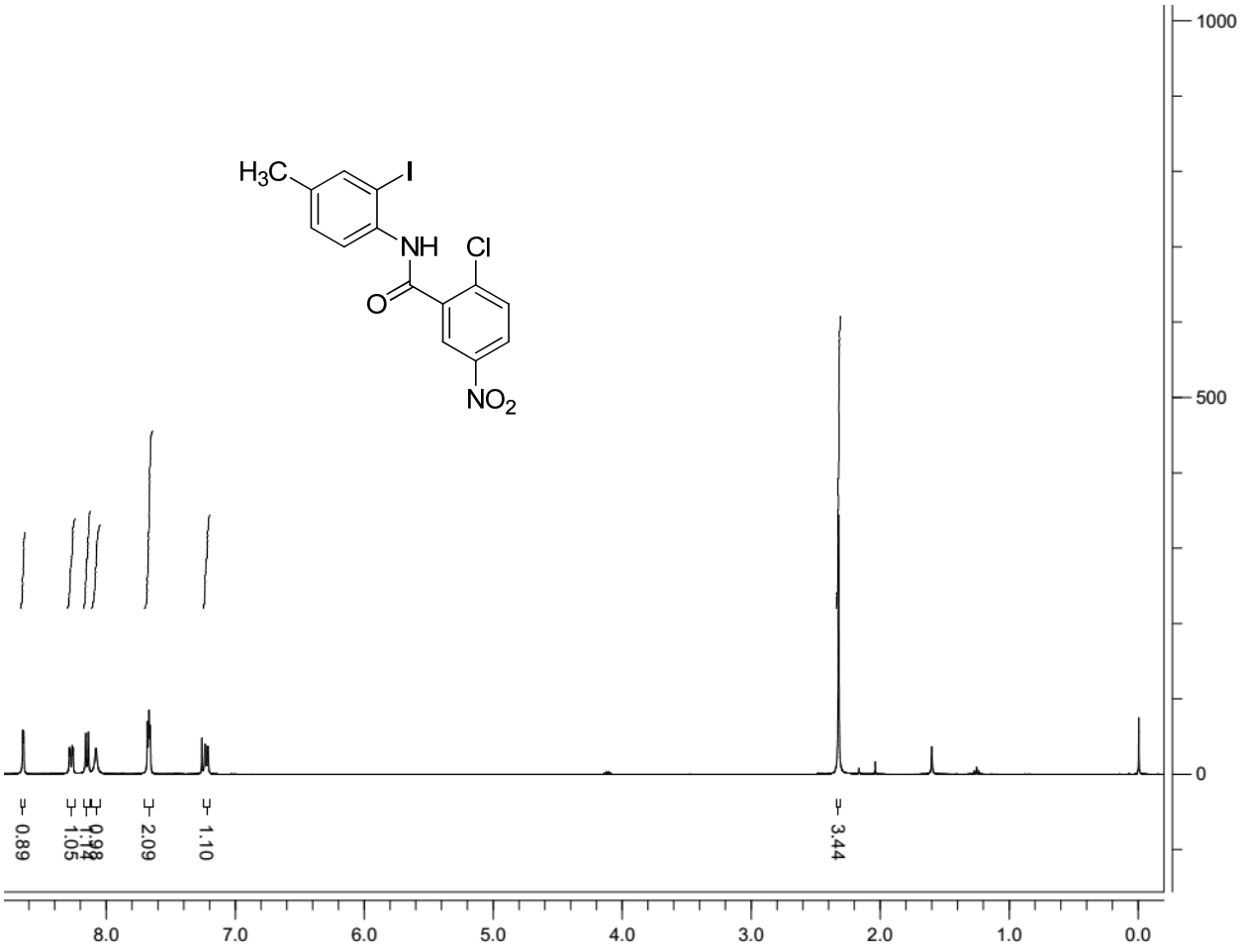

Fig. 19: ^{1}H NMR spectra of compound **S-1k** ($CDCl_3$, 400 MHz)

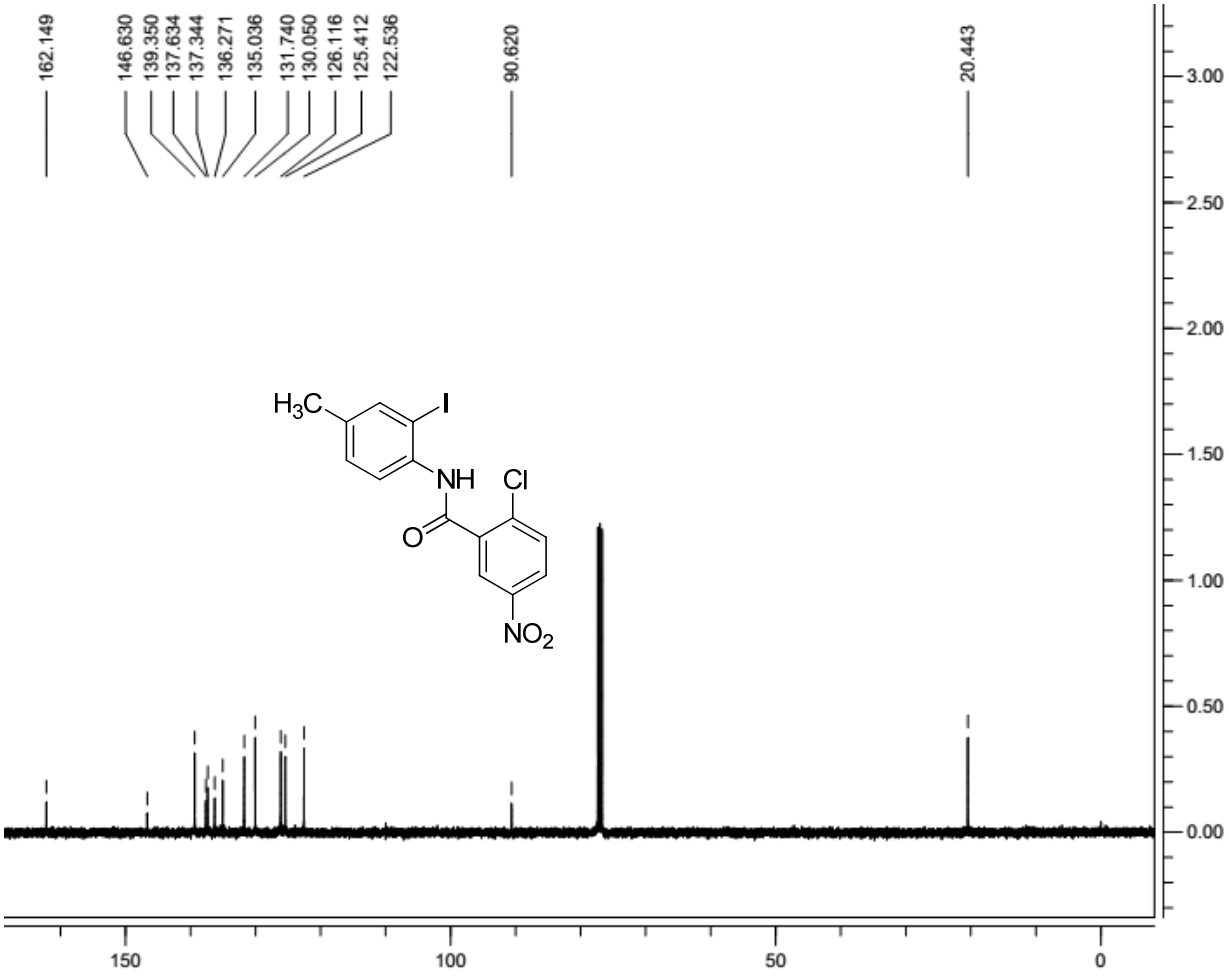

Fig. 20: ^{13}C NMR spectra of compound **S-1k** ($CDCl_3$, 100 MHz)

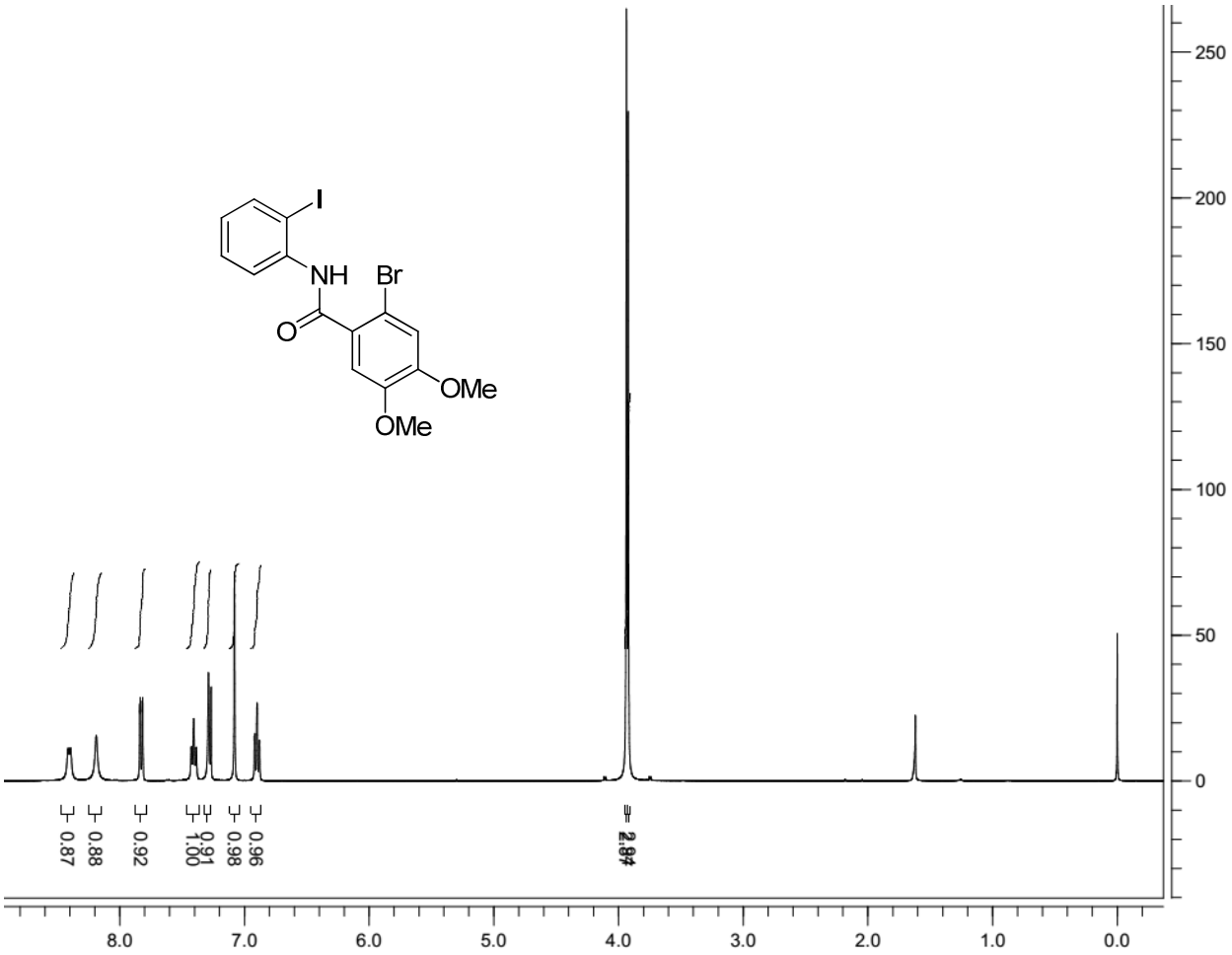

Fig. 21: ^{1}H NMR spectra of compound **S-1l** ($CDCl_3$, 400 MHz)

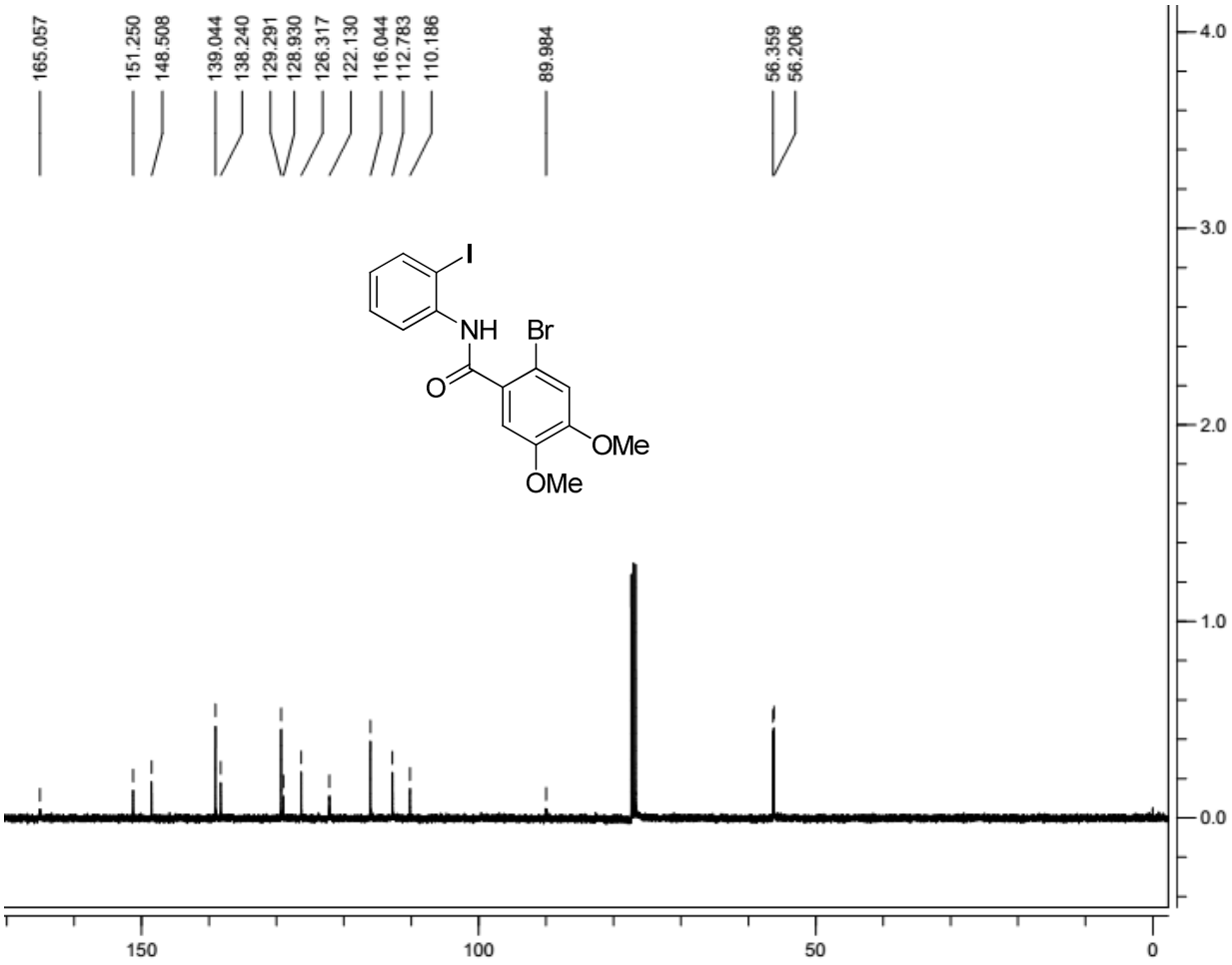

Fig. 22: ^{13}C NMR spectra of compound **S-1l** ($CDCl_3$, 100 MHz)

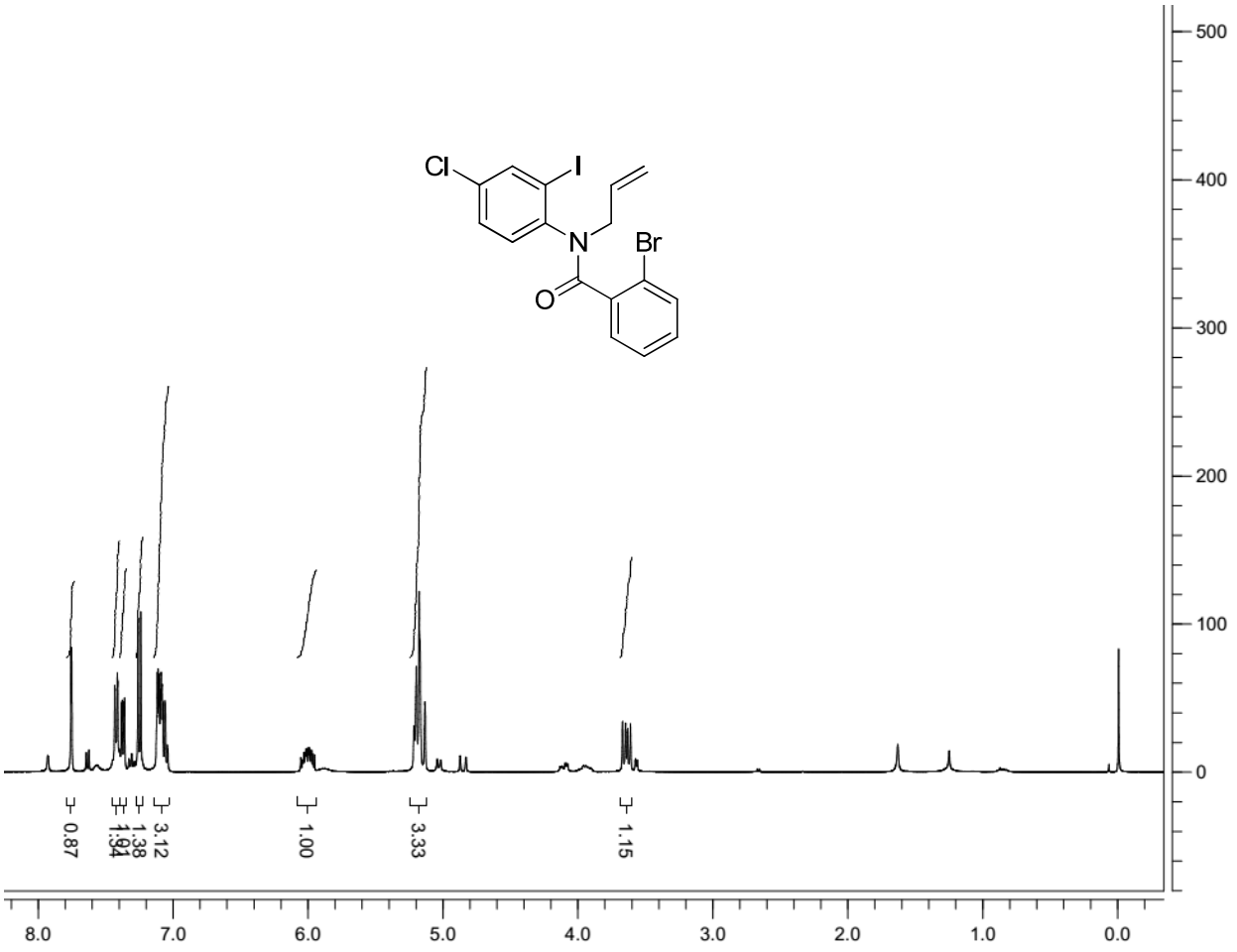

Fig. 23: ^{1}H NMR spectra of compound **1a** ($CDCl_3$, 400 MHz)

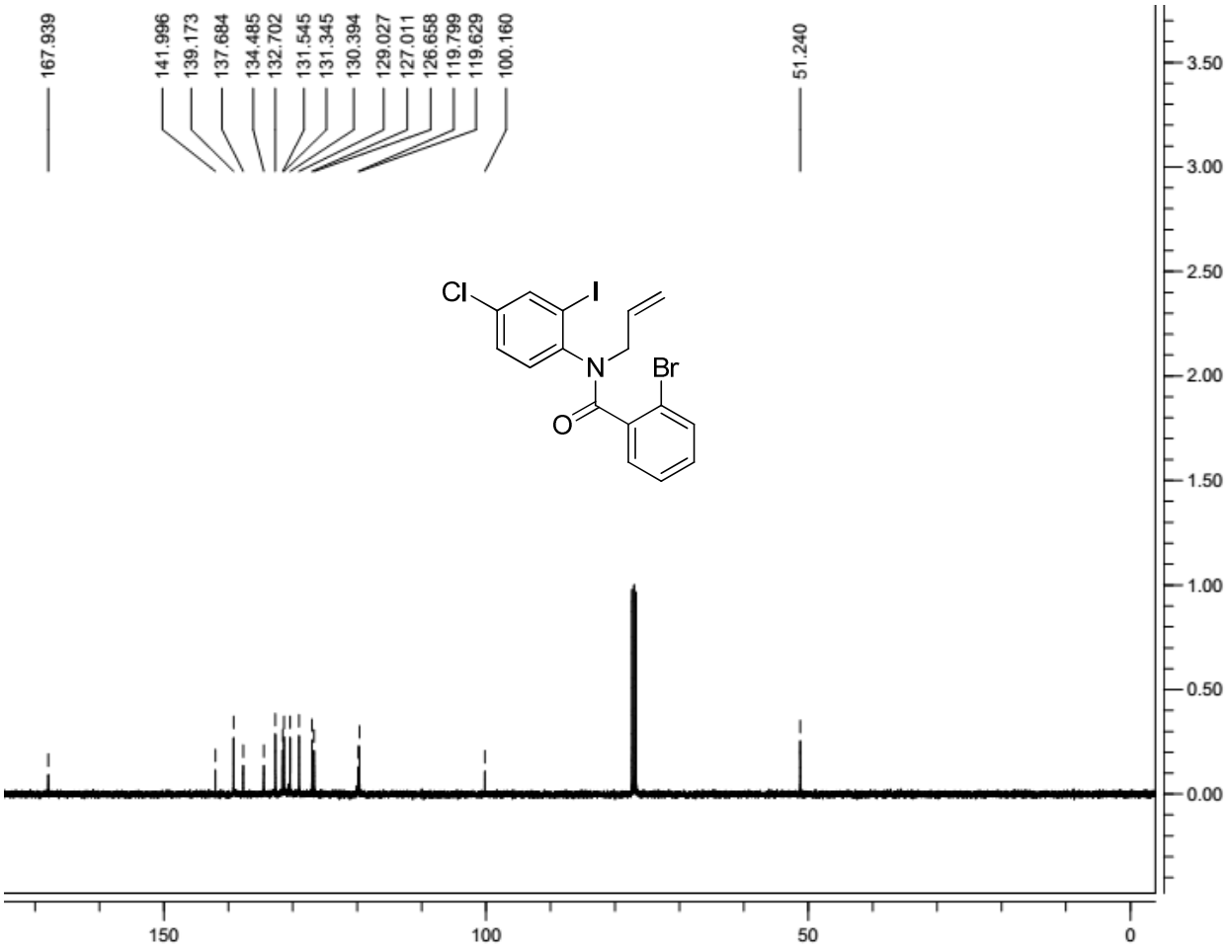

Fig. 24: ^{13}C NMR spectra of compound **1a** ($CDCl_3$, 100 MHz)

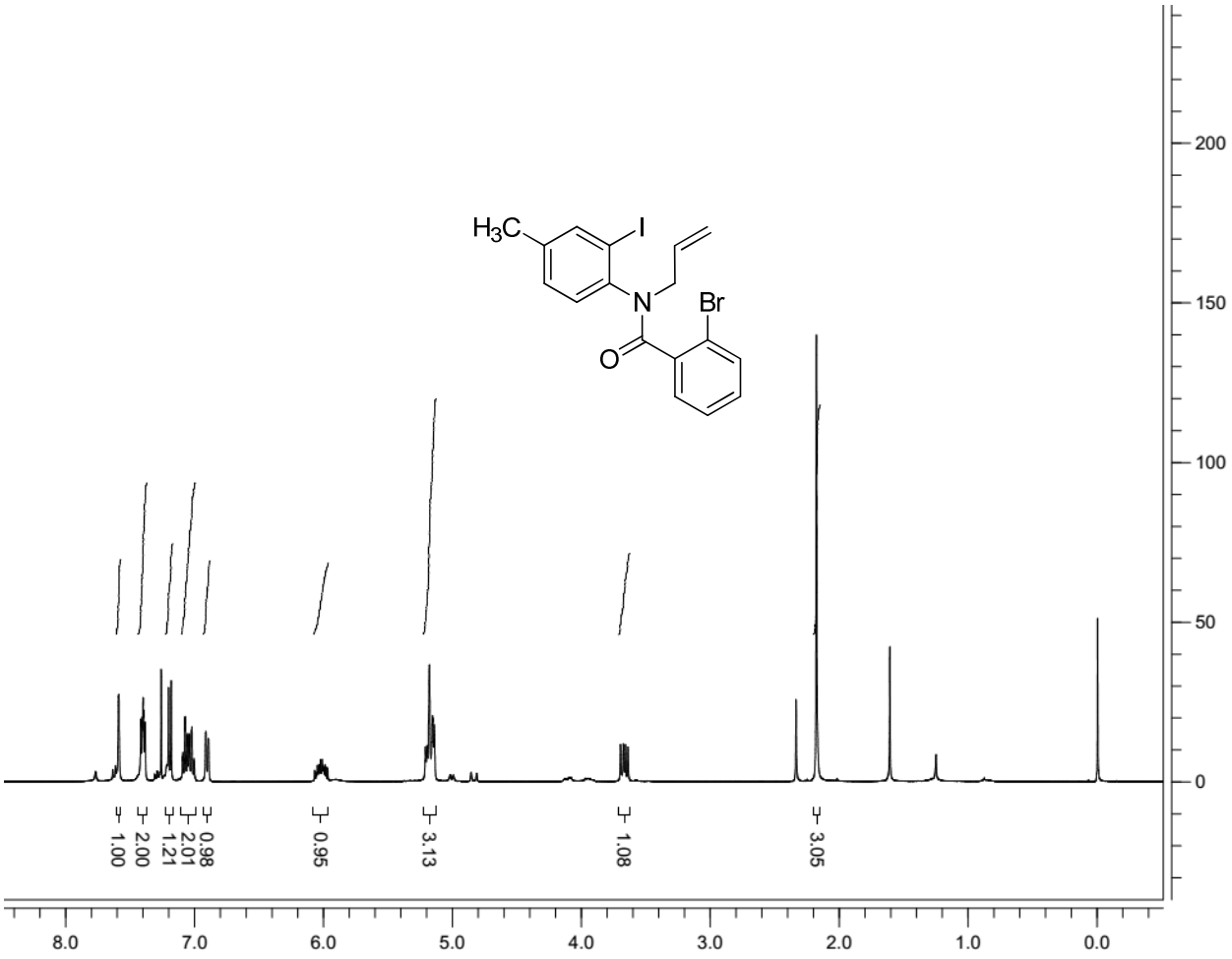

Fig. 25: ^{1}H NMR spectra of compound **1b** ($CDCl_3$, 400 MHz)

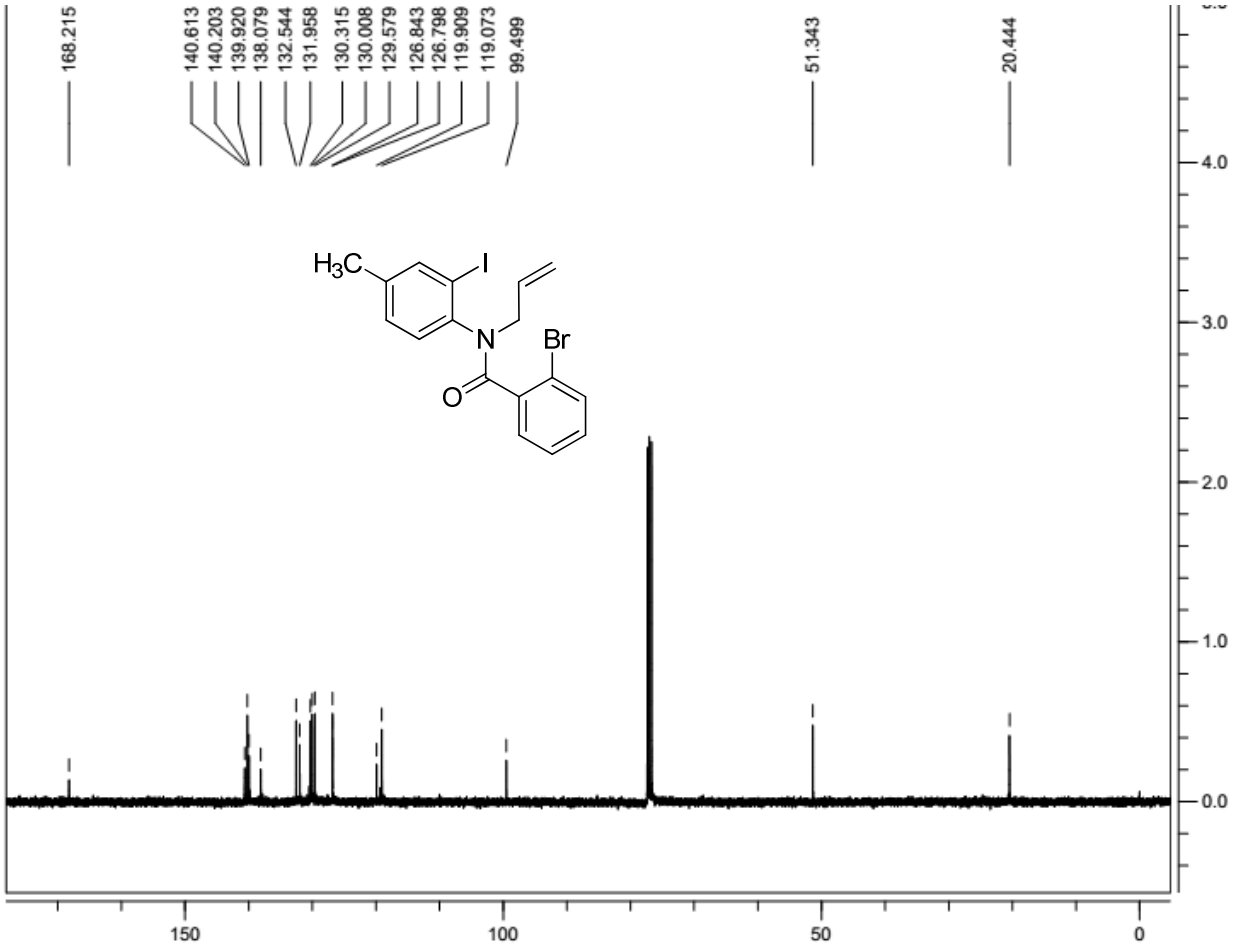

Fig. 26: ^{13}C NMR spectra of compound **1b** ($CDCl_3$, 100 MHz)

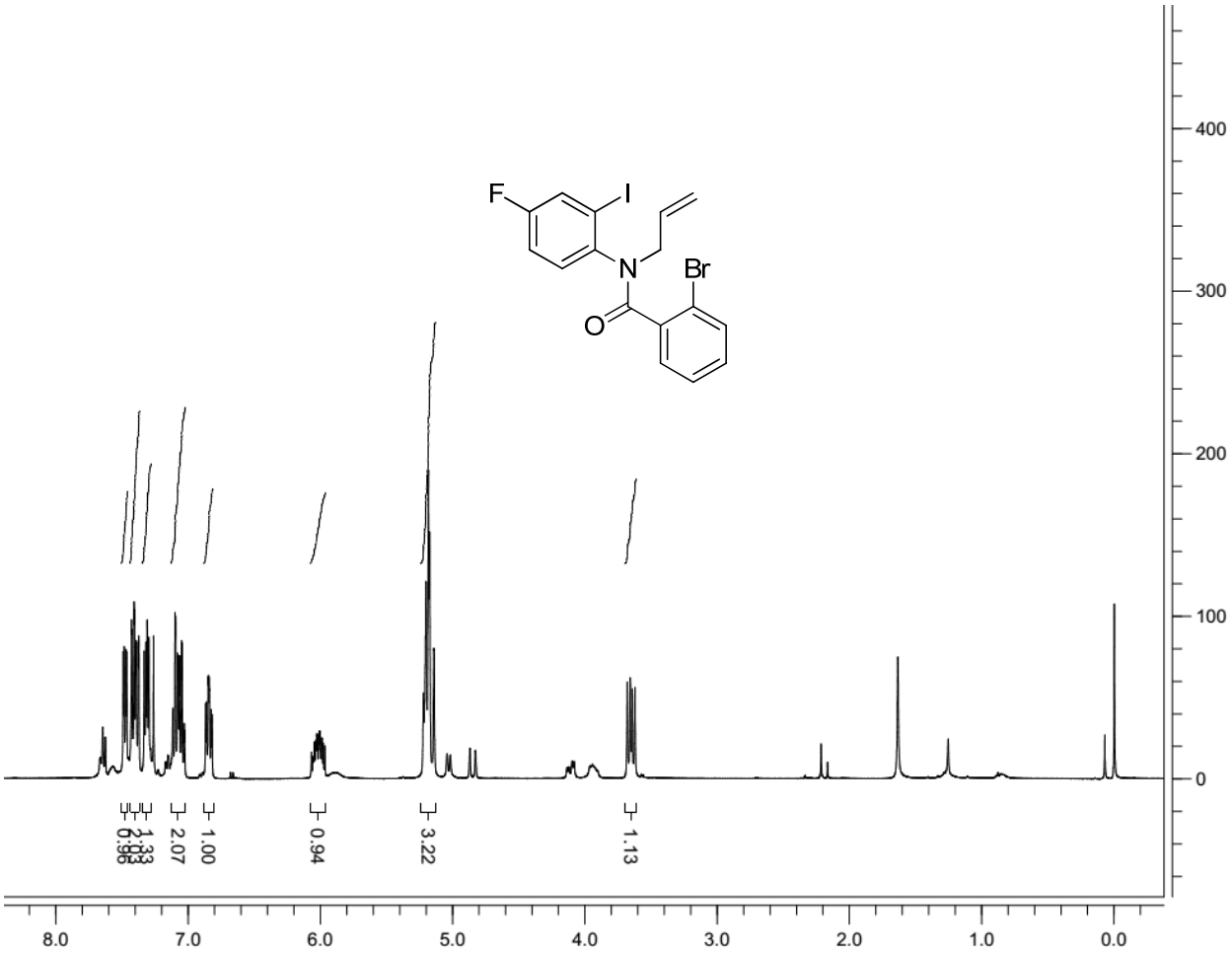

Fig. 27: ^{1}H NMR spectra of compound **1c** ($CDCl_3$, 400 MHz)

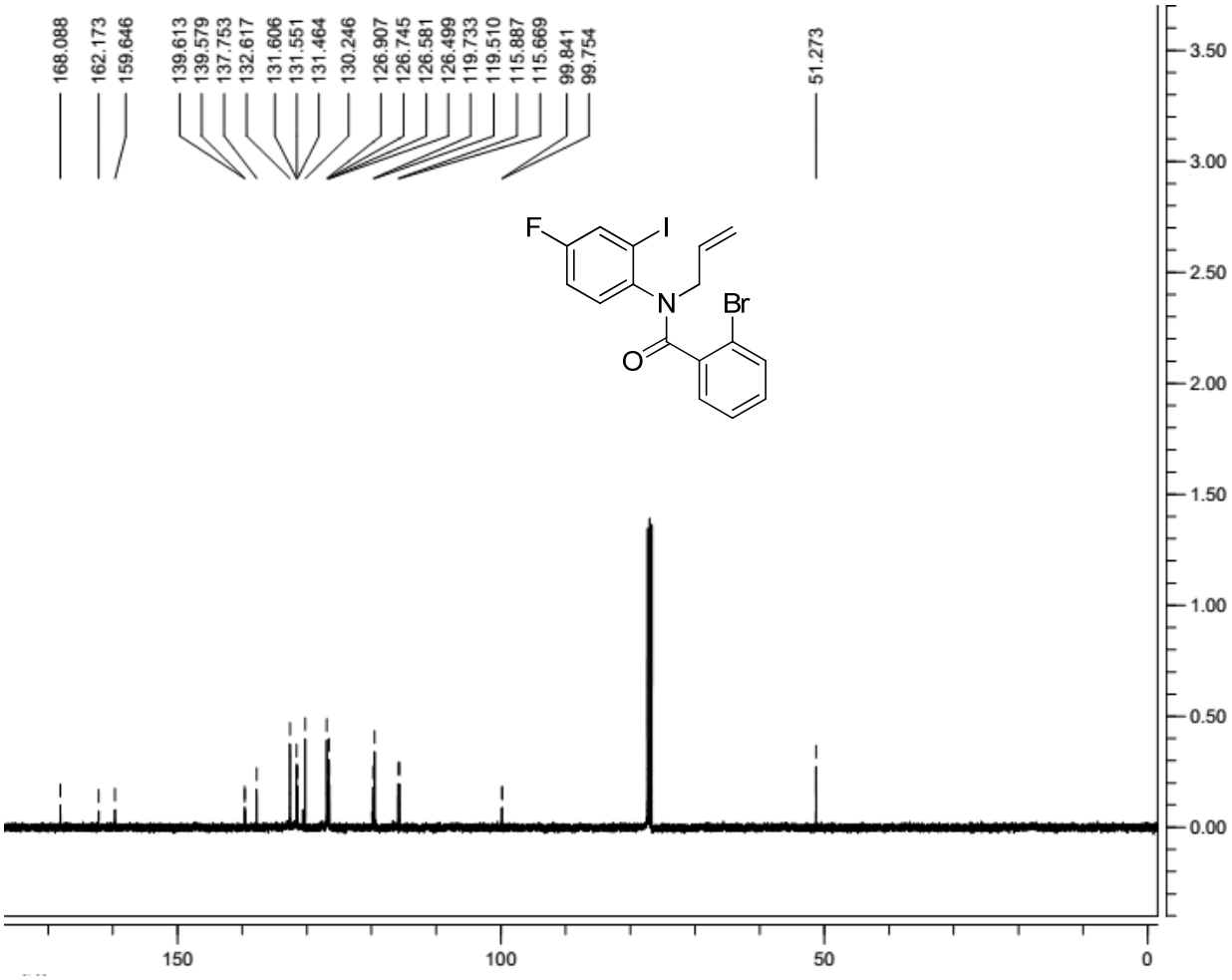

Fig. 28: ^{13}C NMR spectra of compound **1c** ($CDCl_3$, 100 MHz)

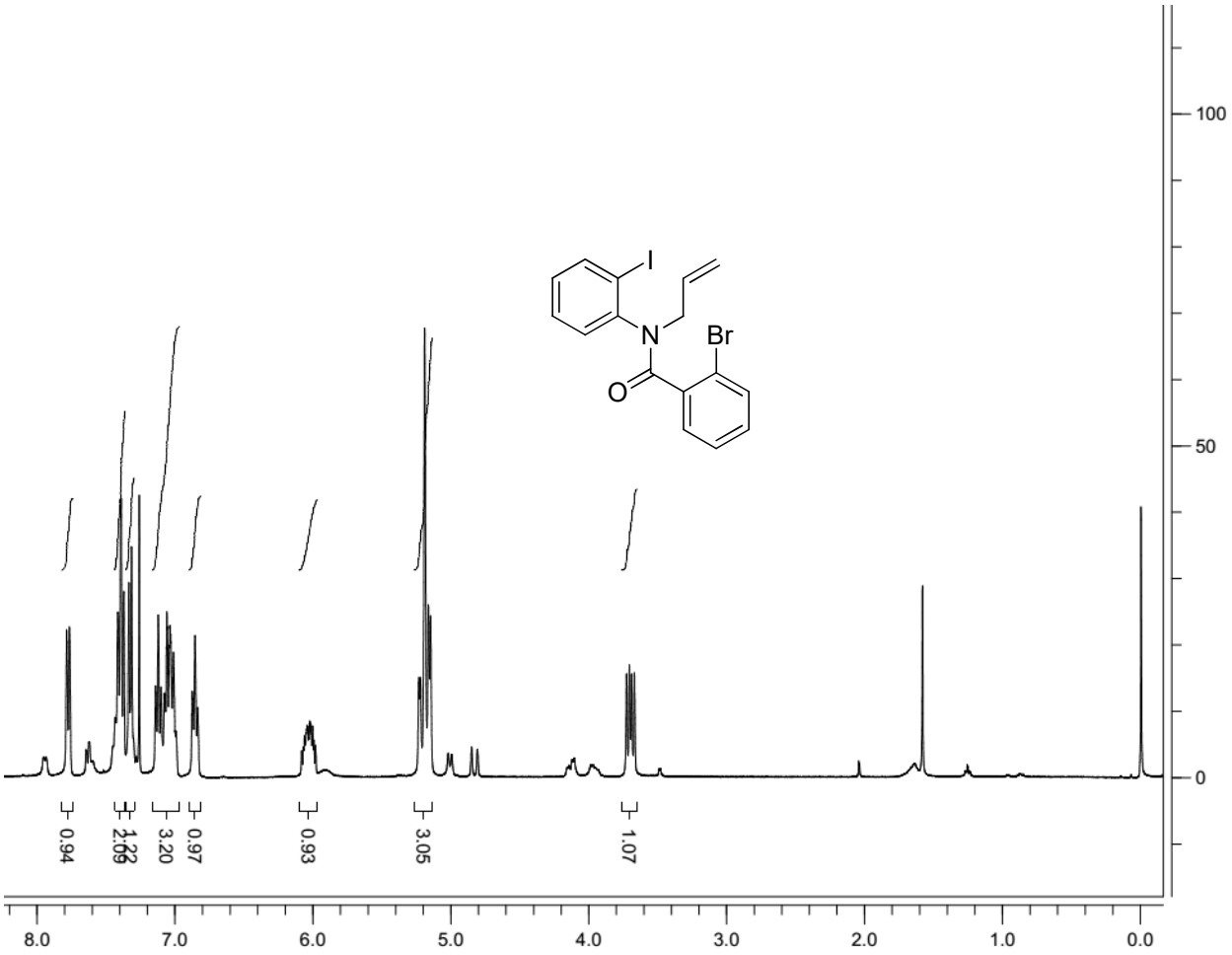

Fig. 29: ^{1}H NMR spectra of compound **1d** ($CDCl_3$, 400 MHz)

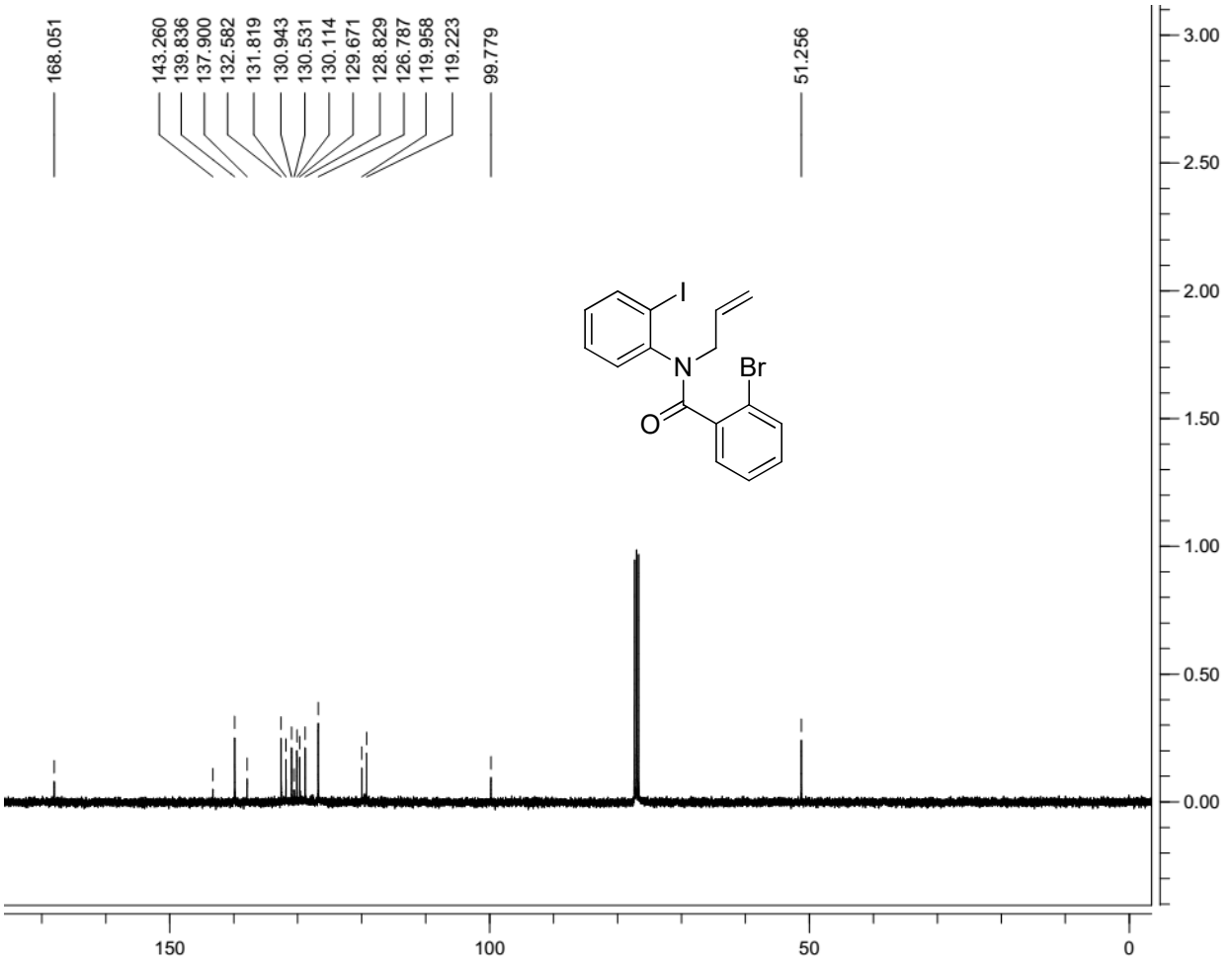

Fig. 30: ^{13}C NMR spectra of compound **1d** ($CDCl_3$, 100 MHz)

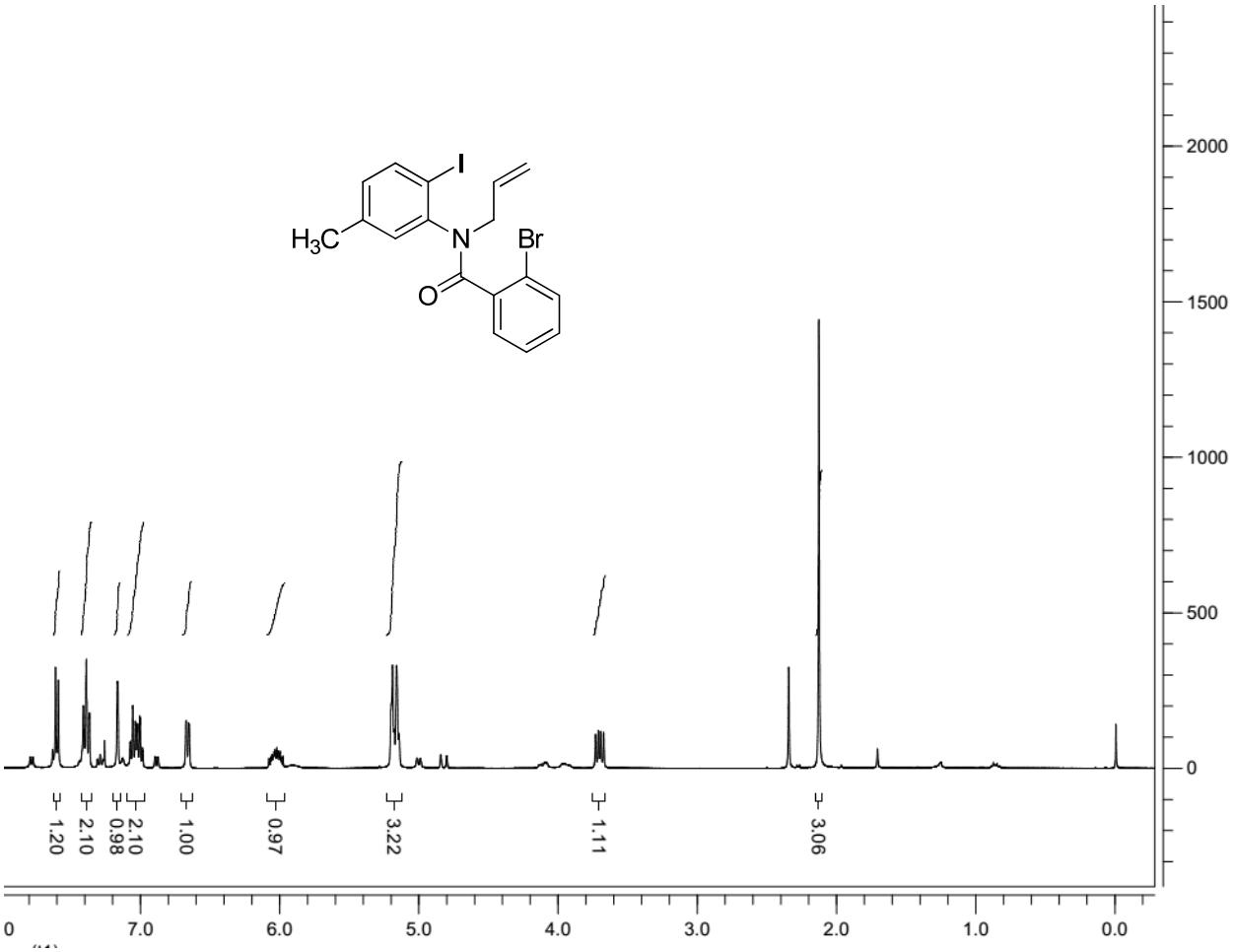

Fig. 31: ^{1}H NMR spectra of compound **1f**($CDCl_3$, 400 MHz)

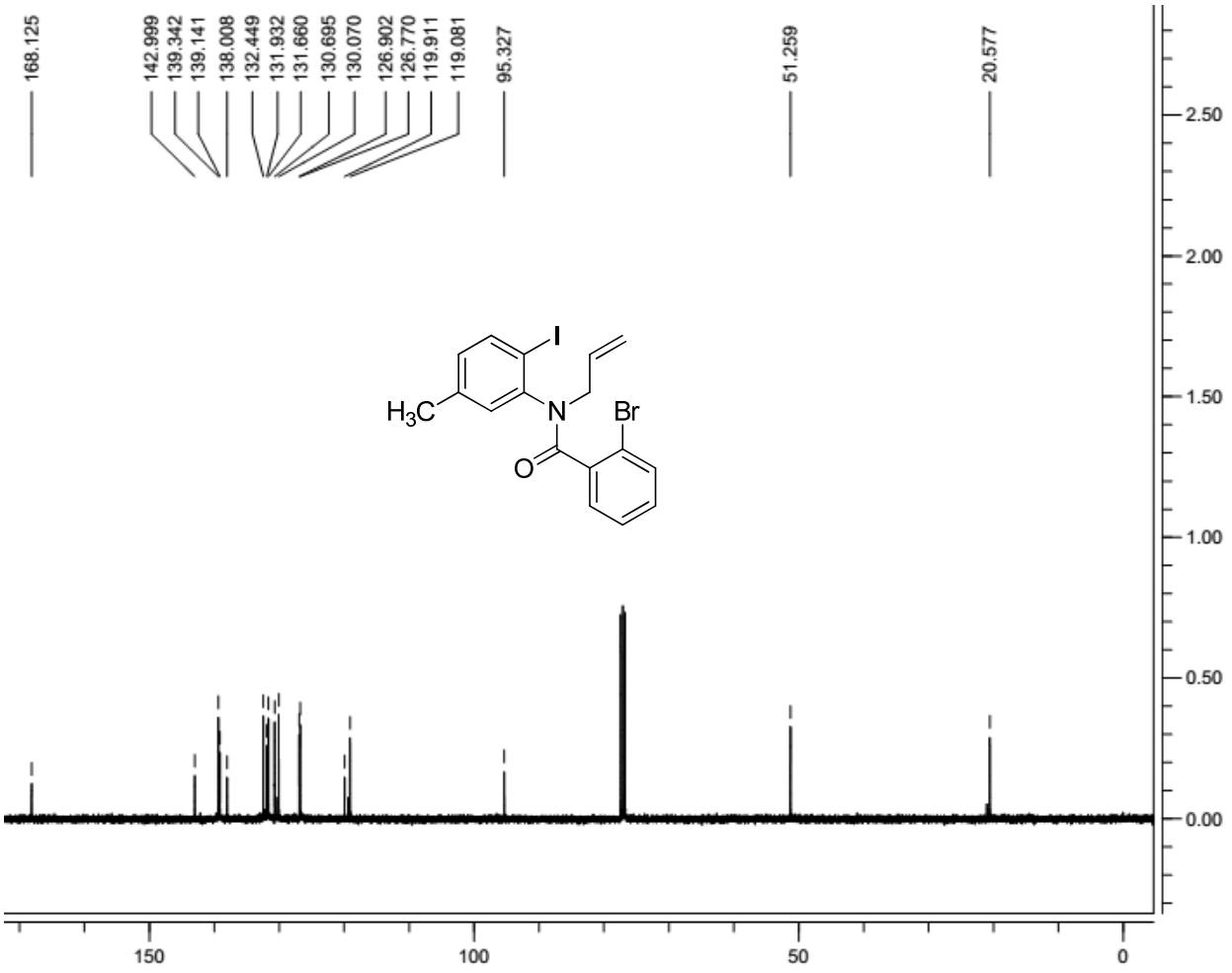

Fig. 32: ^{13}C NMR spectra of compound **1f** ($CDCl_3$, 100 MHz)

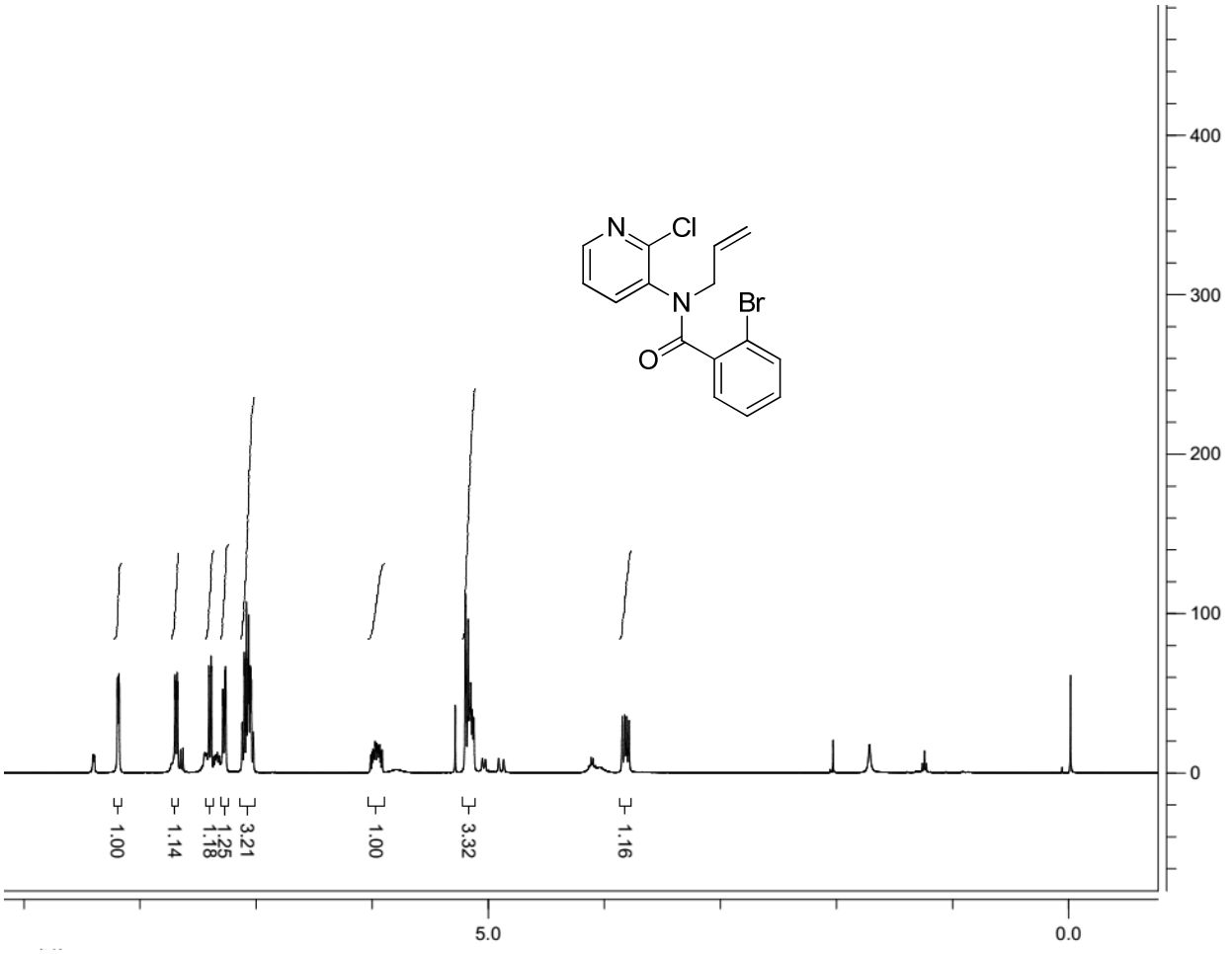

Fig. 33: ^{1}H NMR spectra of compound **1g** ($CDCl_3$, 400 MHz)

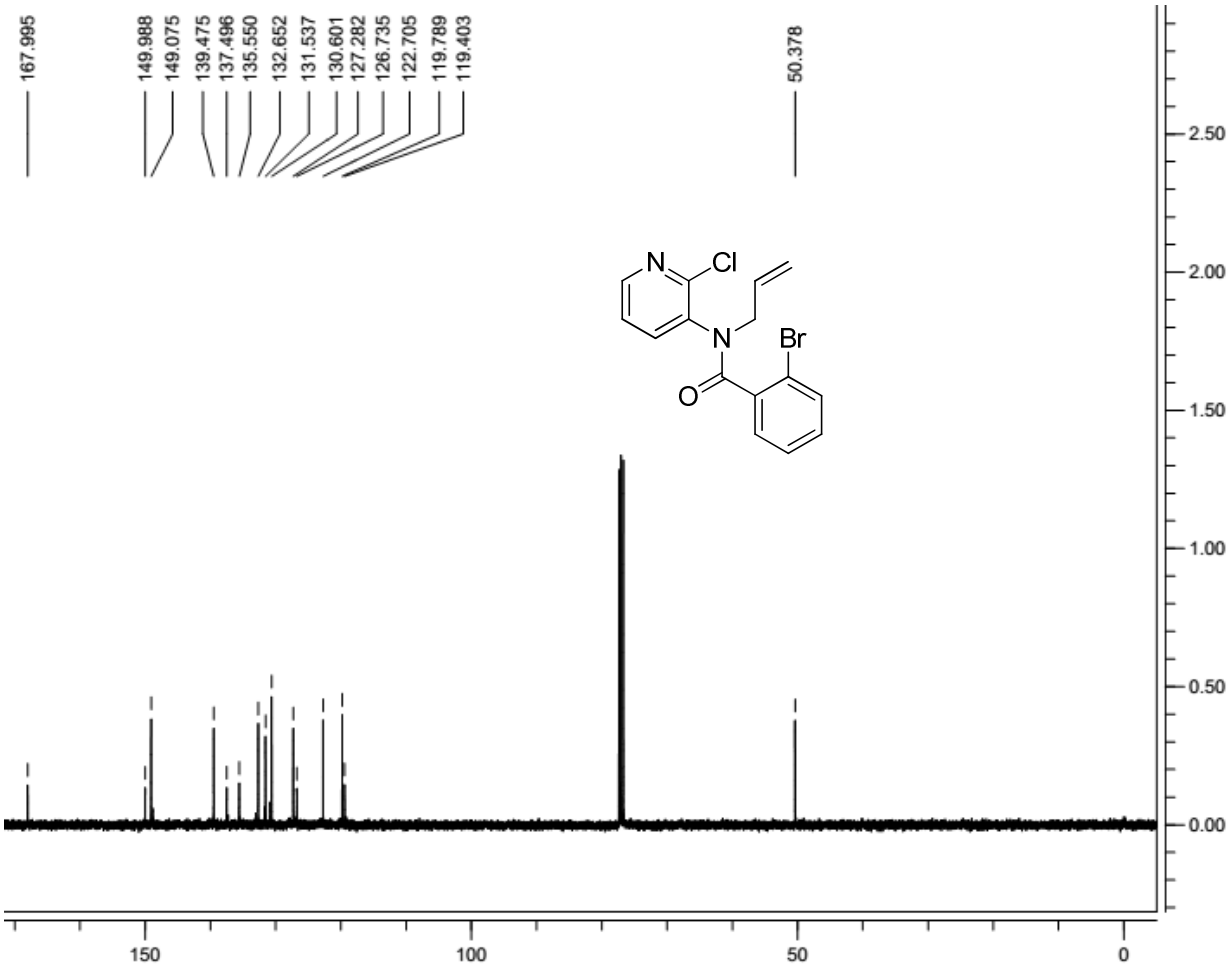

Fig. 34: ^{13}C NMR spectra of compound **1g** ($CDCl_3$, 100 MHz)

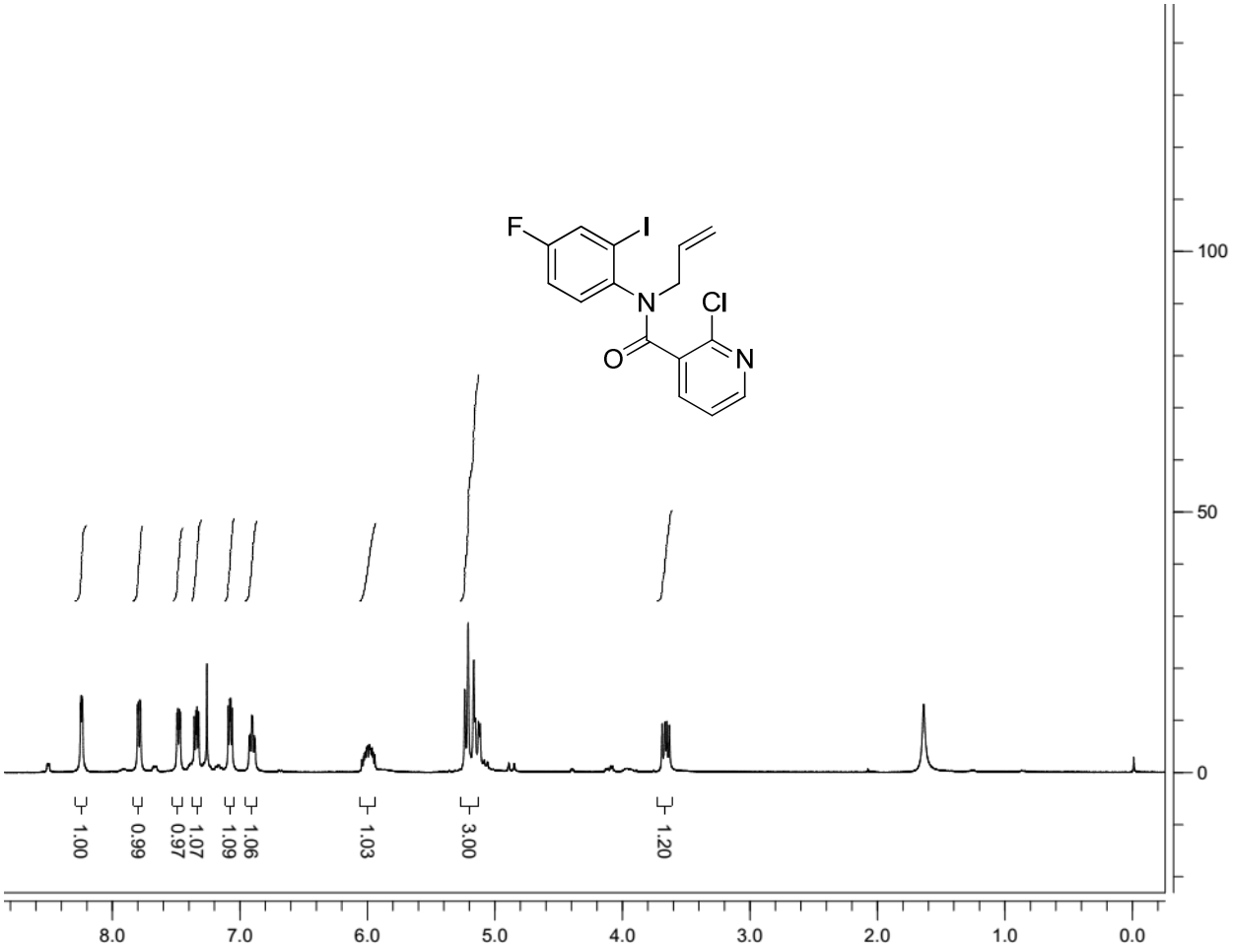

Fig. 35: ^{1}H NMR spectra of compound **1h** ($CDCl_3$, 400 MHz)

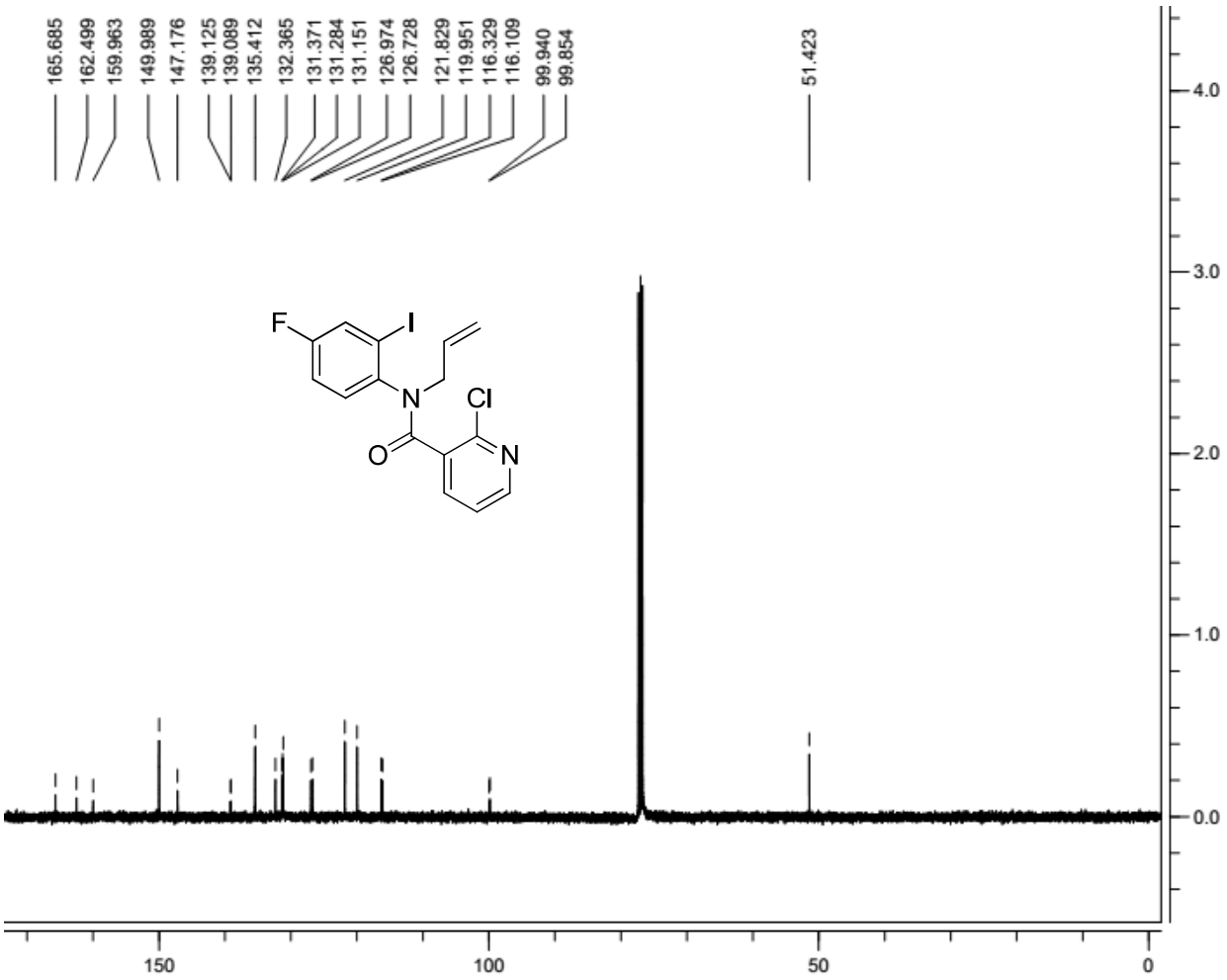

Fig. 36: ^{13}C NMR spectra of compound **1h** ($CDCl_3$, 100 MHz)

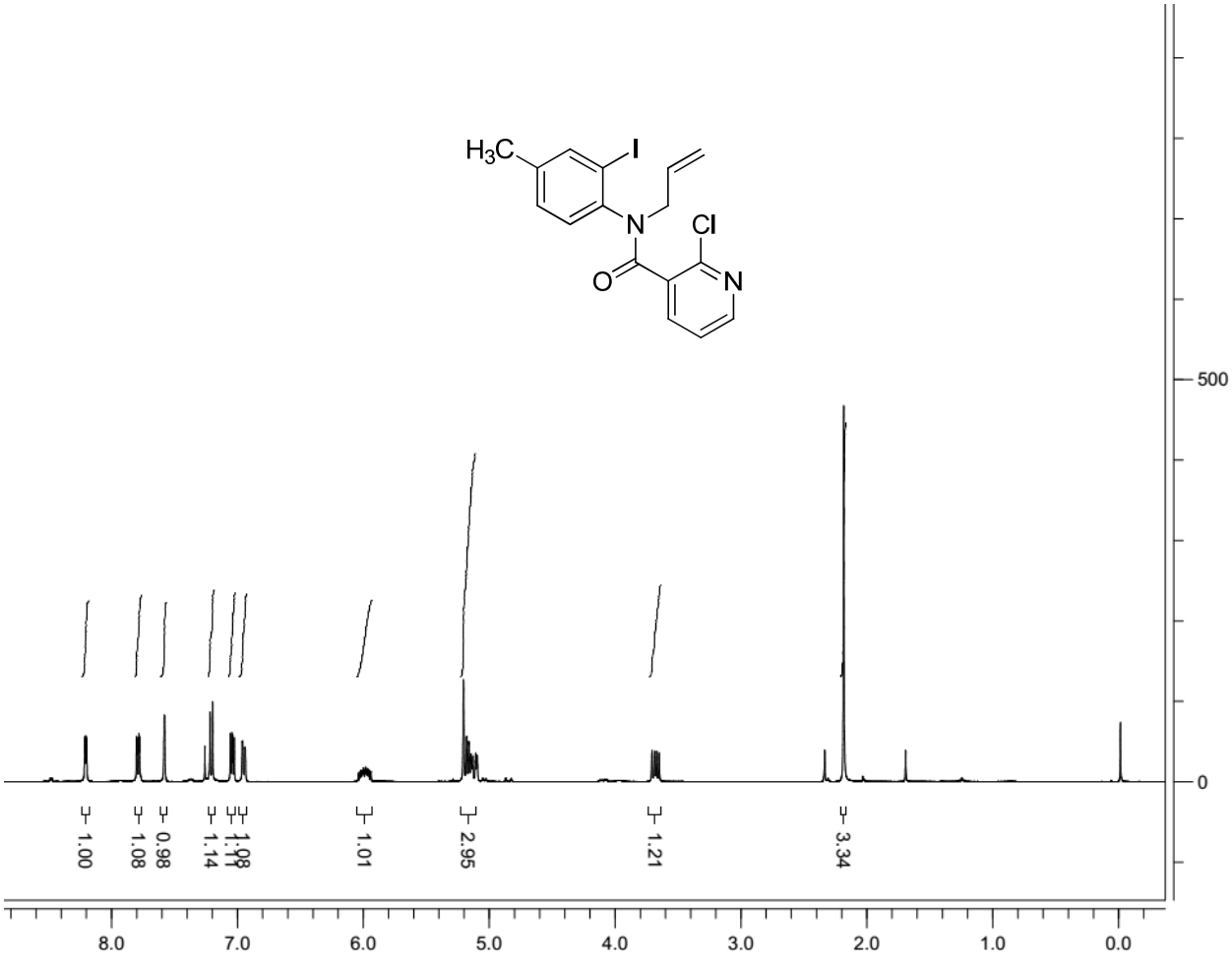

Fig. 37: ^{1}H NMR spectra of compound **1i** ($CDCl_3$, 400 MHz)

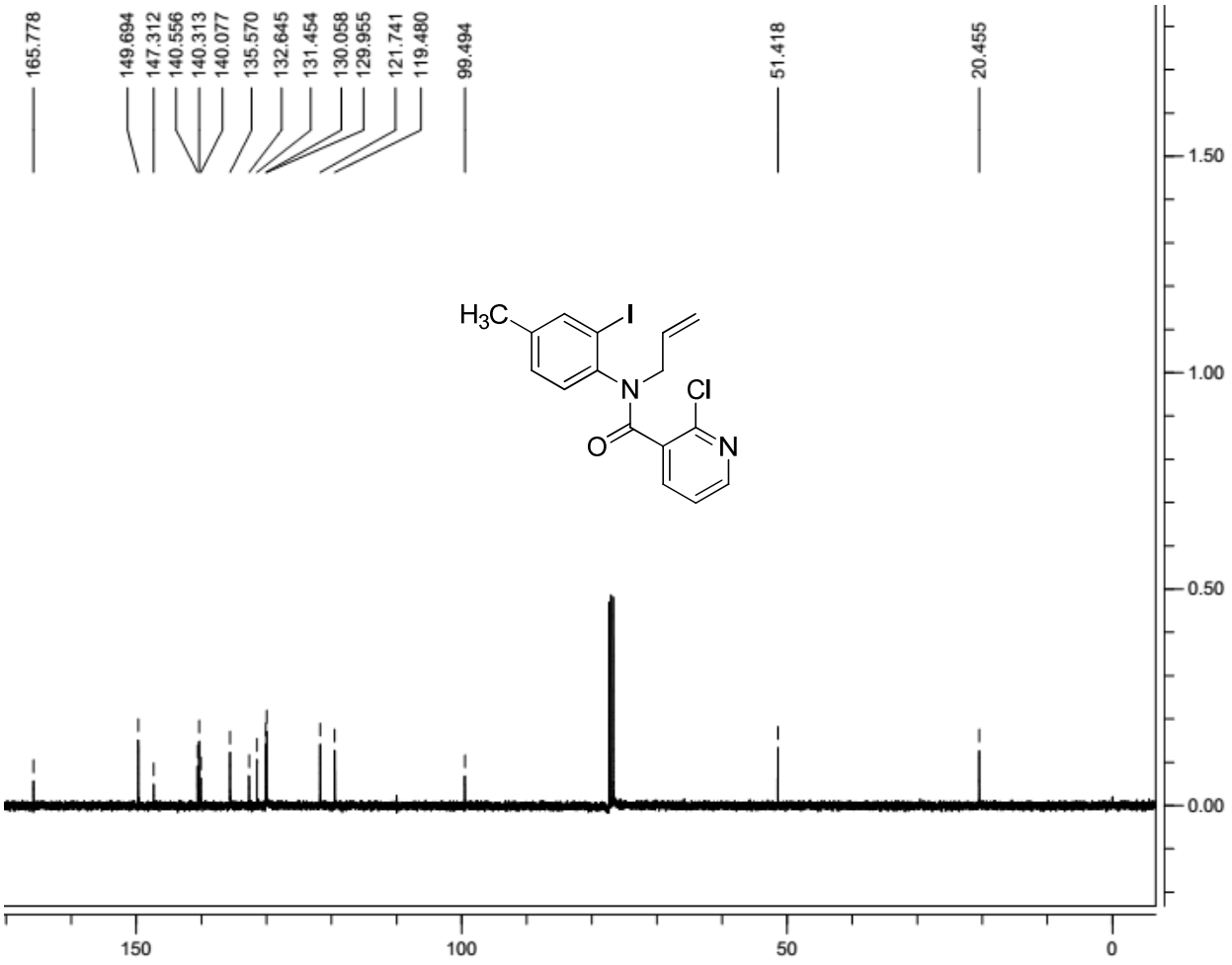

Fig. 38: ^{13}C NMR spectra of compound **1i** ($CDCl_3$, 100 MHz)

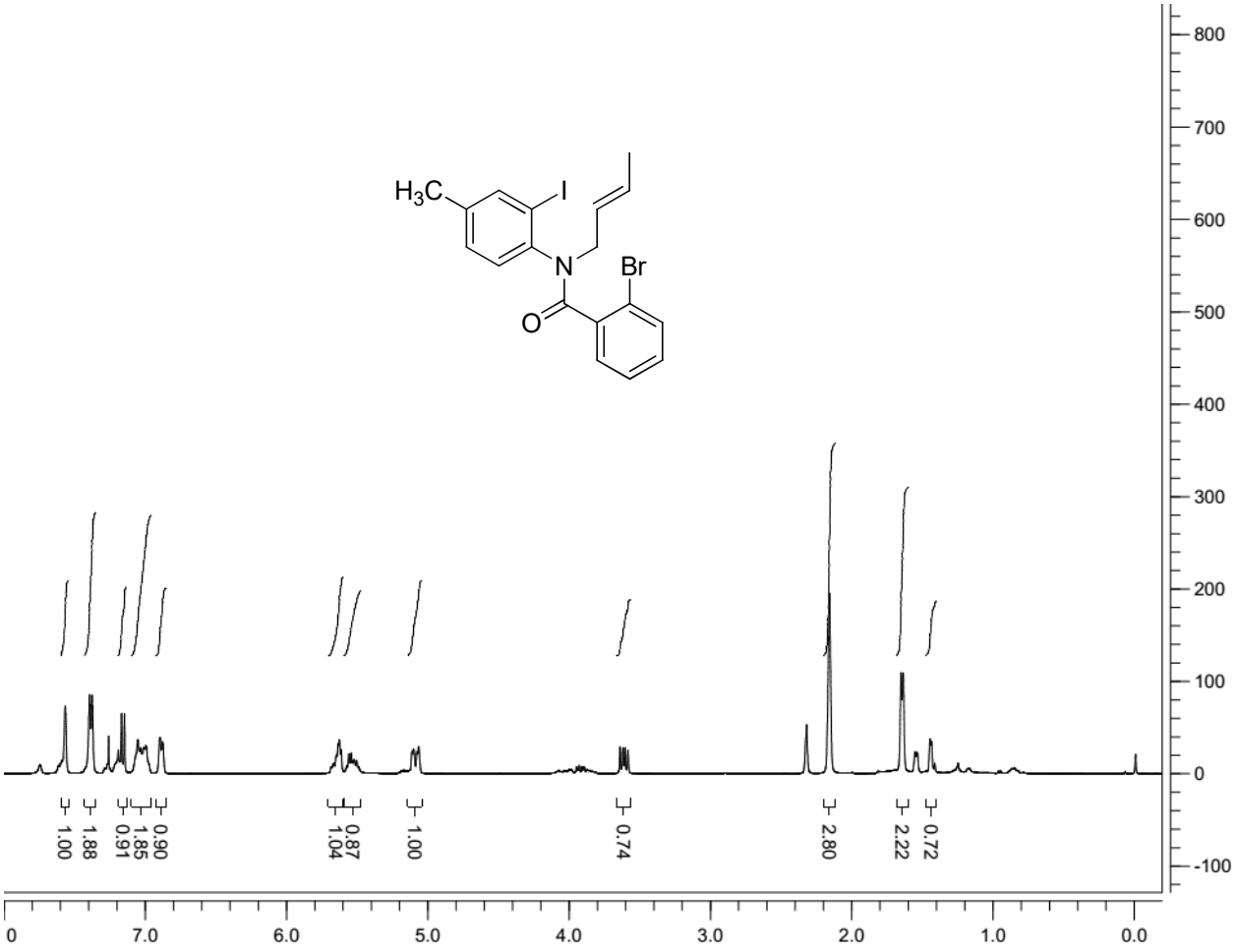

Fig. 39: ^{1}H NMR spectra of **1l** ($CDCl_3$, 400 MHz)

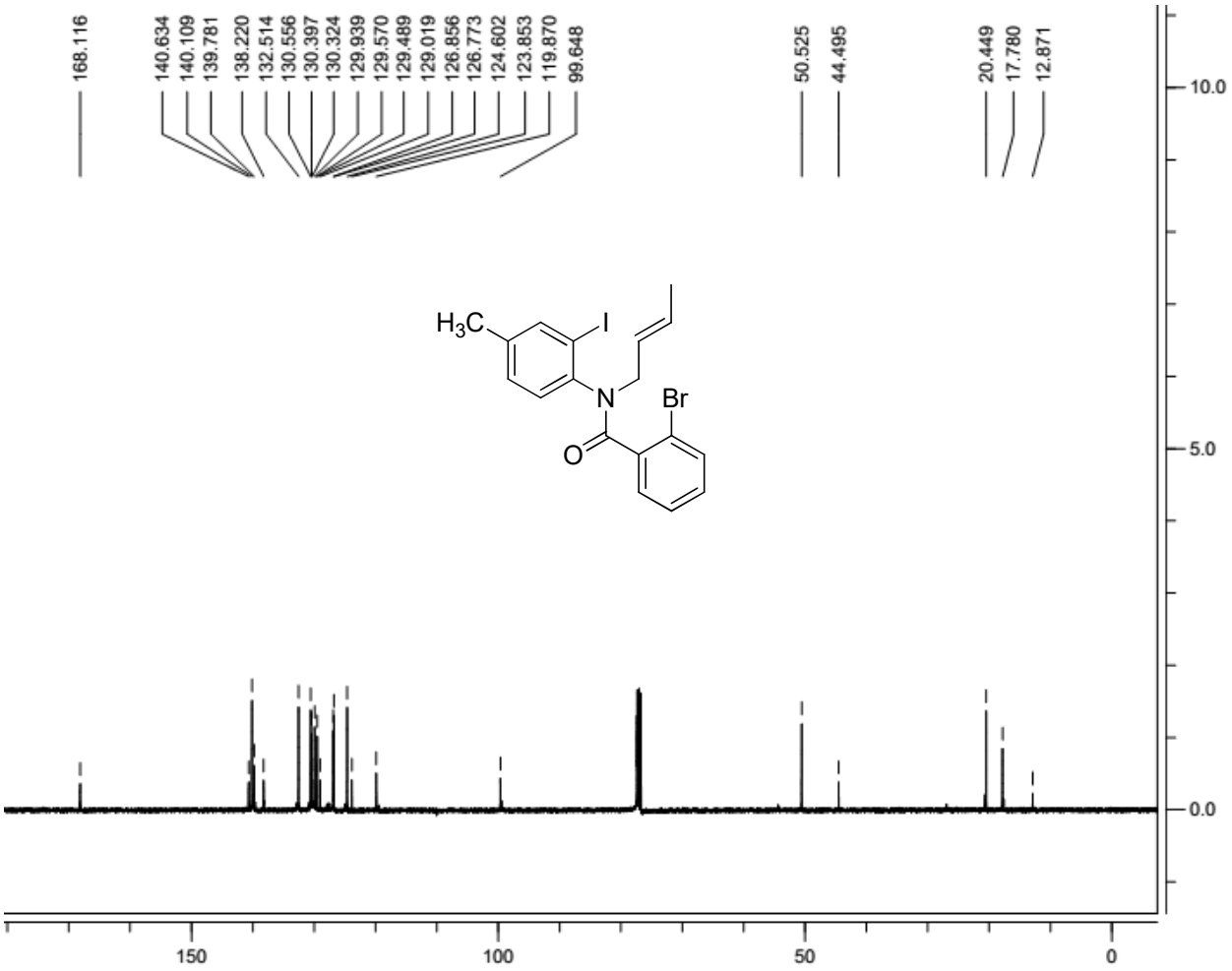

Fig. 40: ^{13}C NMR spectra of compound **1l** ($CDCl_3$, 100 MHz)

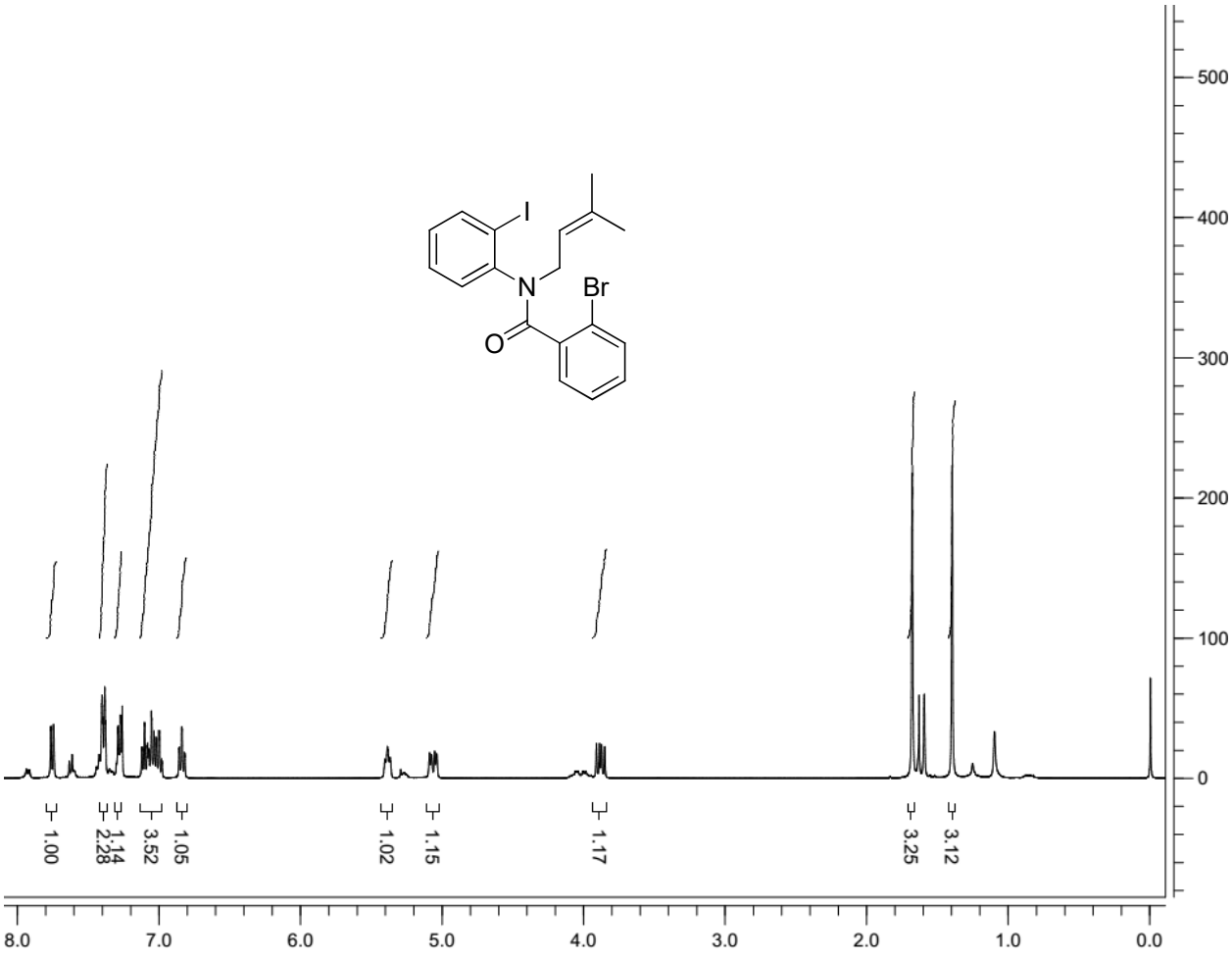

Fig. 41: ^{1}H NMR spectra of compound **1n** ($CDCl_3$, 400 MHz)

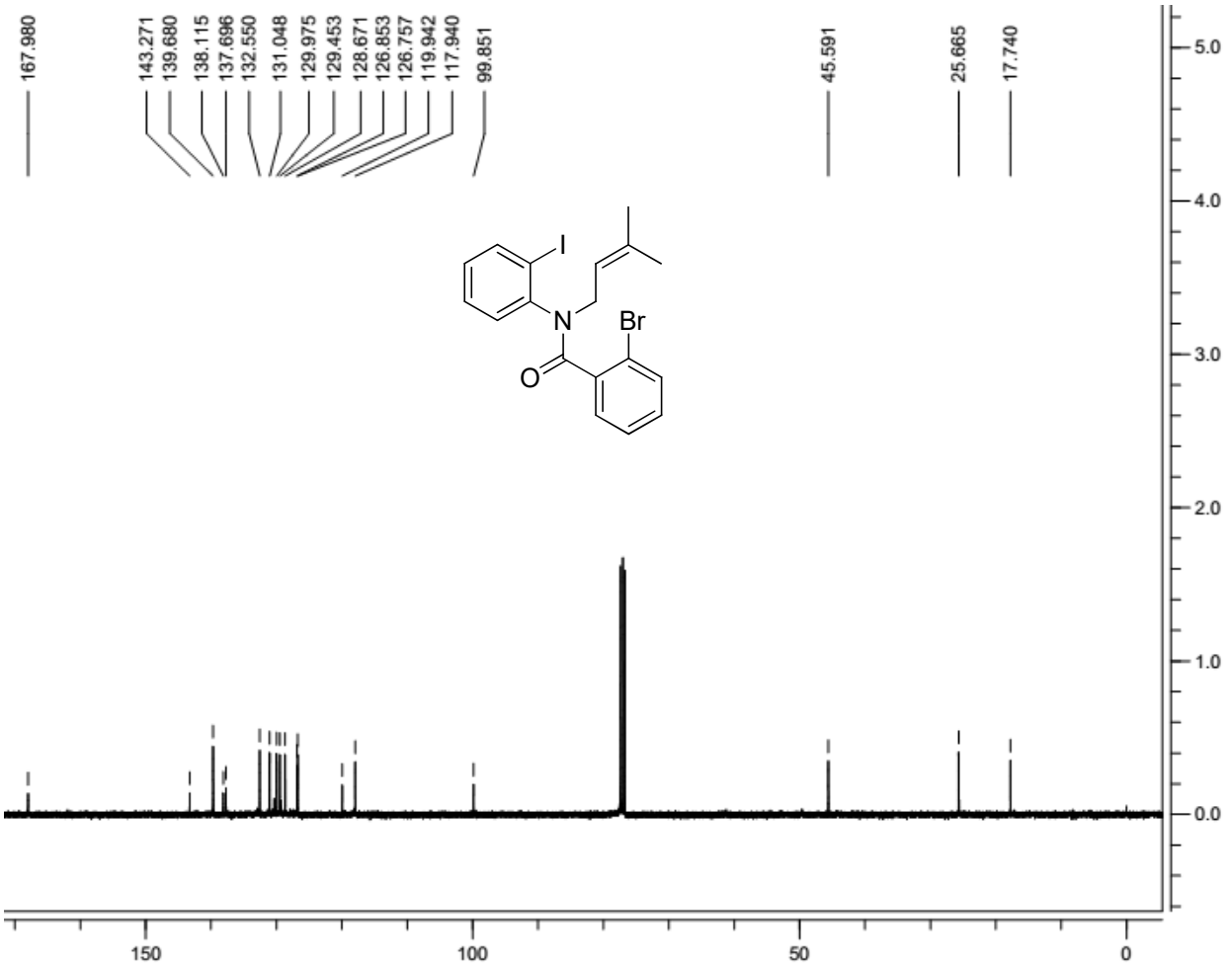

Fig. 42: ^{13}C NMR spectra of compound **1n** ($CDCl_3$, 100 MHz)

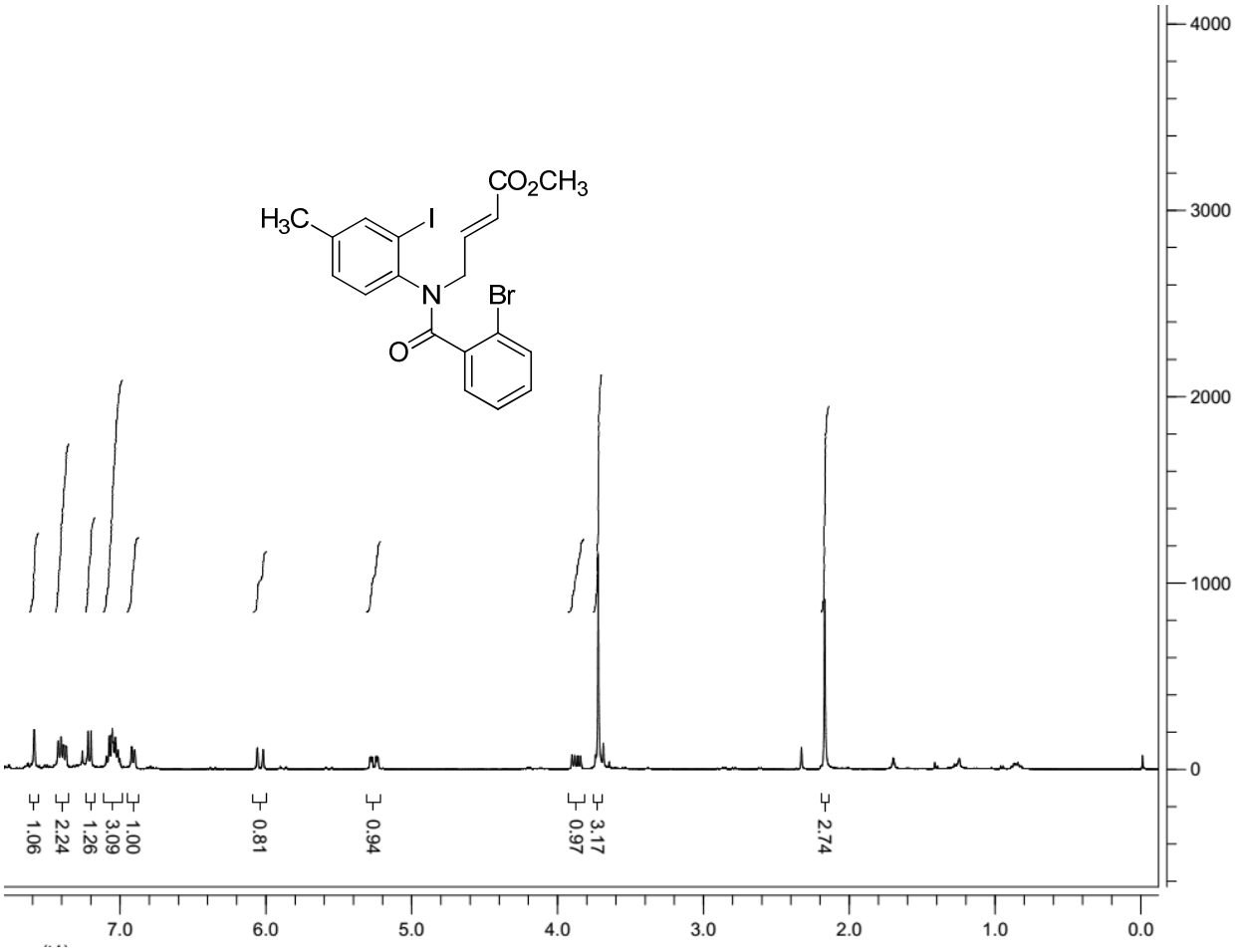

Fig. 43: ^{1}H NMR spectra of compound **1o** ($CDCl_3$, 400 MHz)

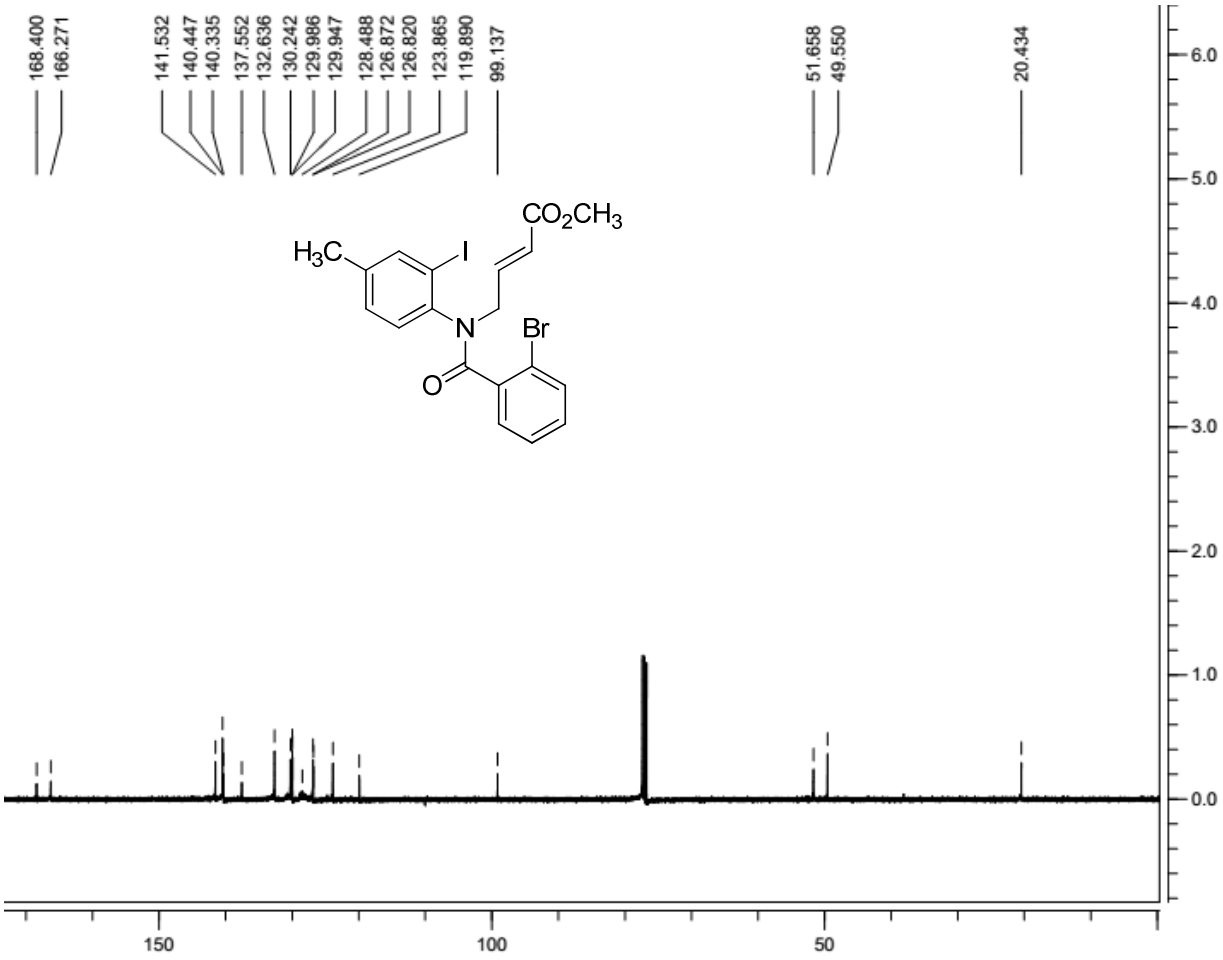

Fig. 44: ^{13}C NMR spectra of compound **1o** ($CDCl_3$, 100 MHz)

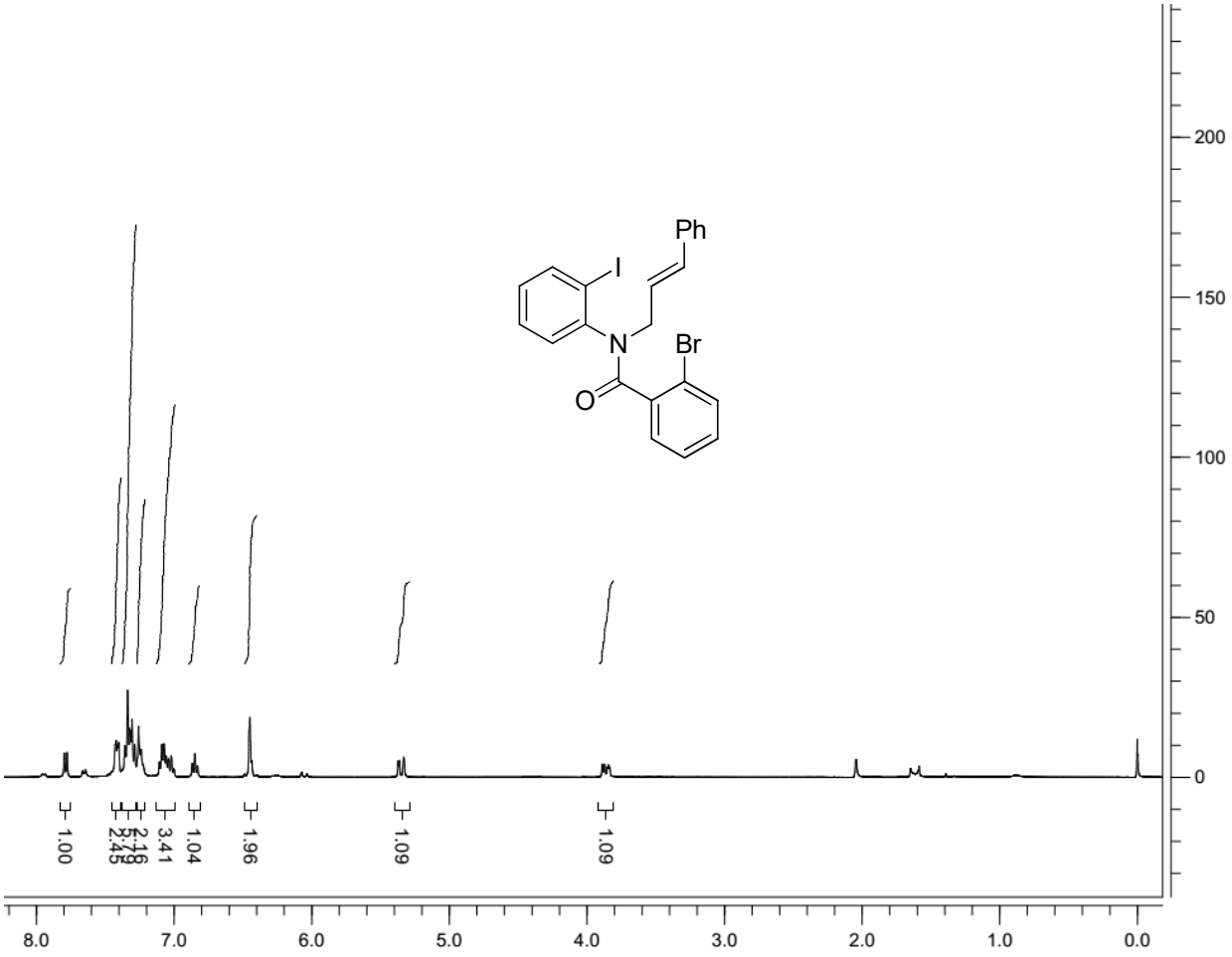

Fig. 45: ^{1}H NMR spectra of compound **1q** ($CDCl_3$, 400 MHz)

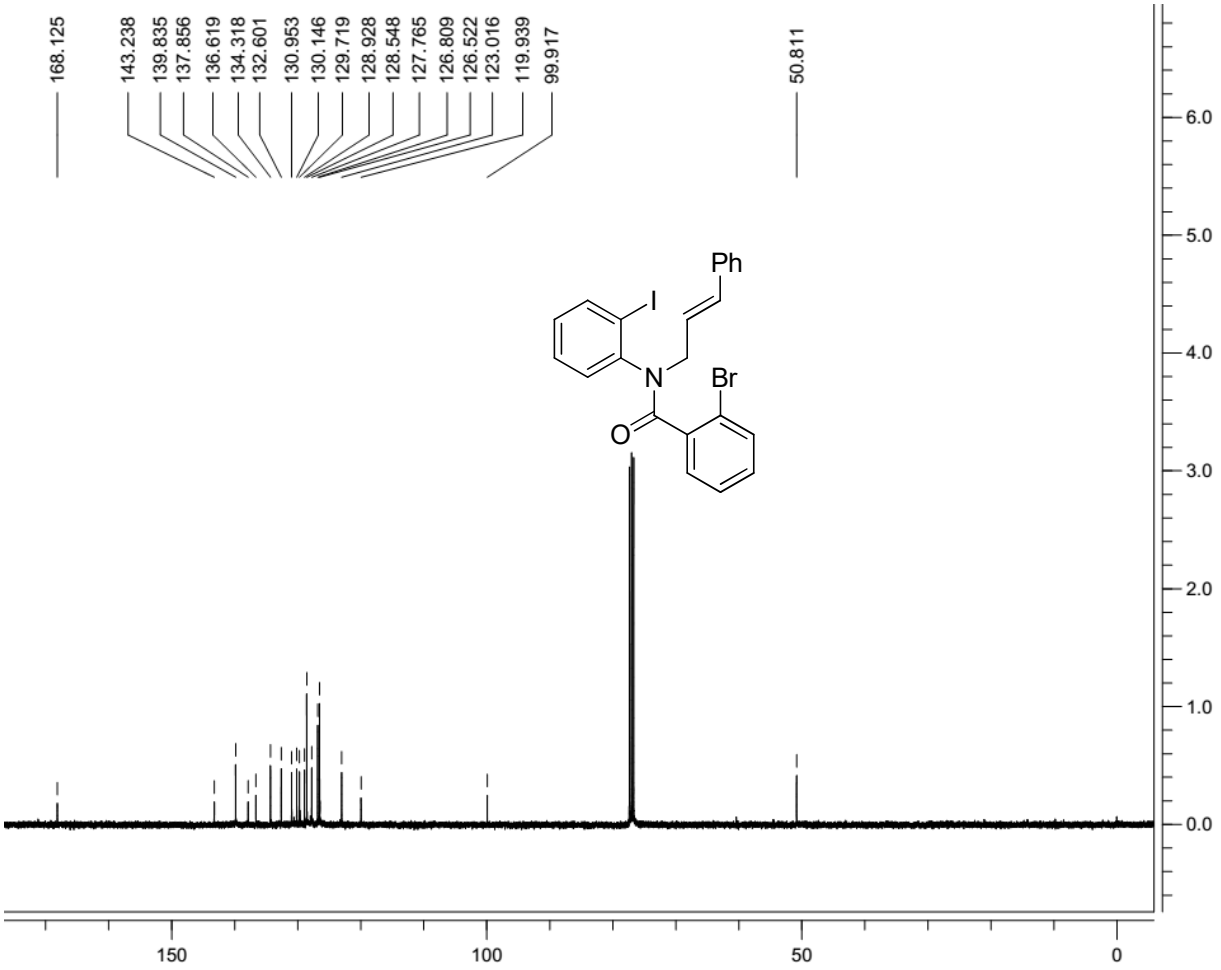

Fig. 46: ^{13}C NMR spectra of compound **1q** ($CDCl_3$, 100 MHz)

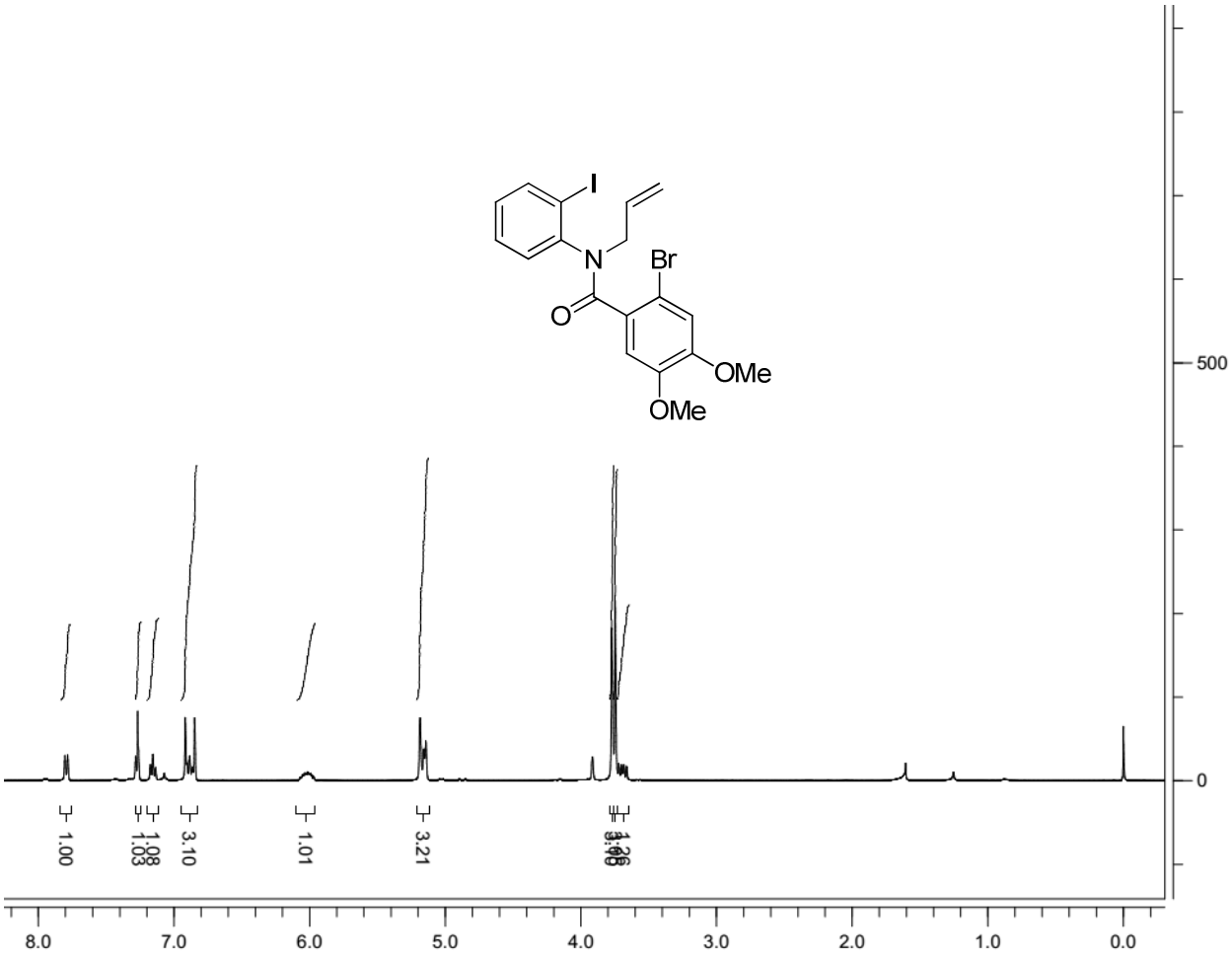

Fig. 47: ^{1}H NMR spectra of compound **1r** ($CDCl_3$, 400 MHz)

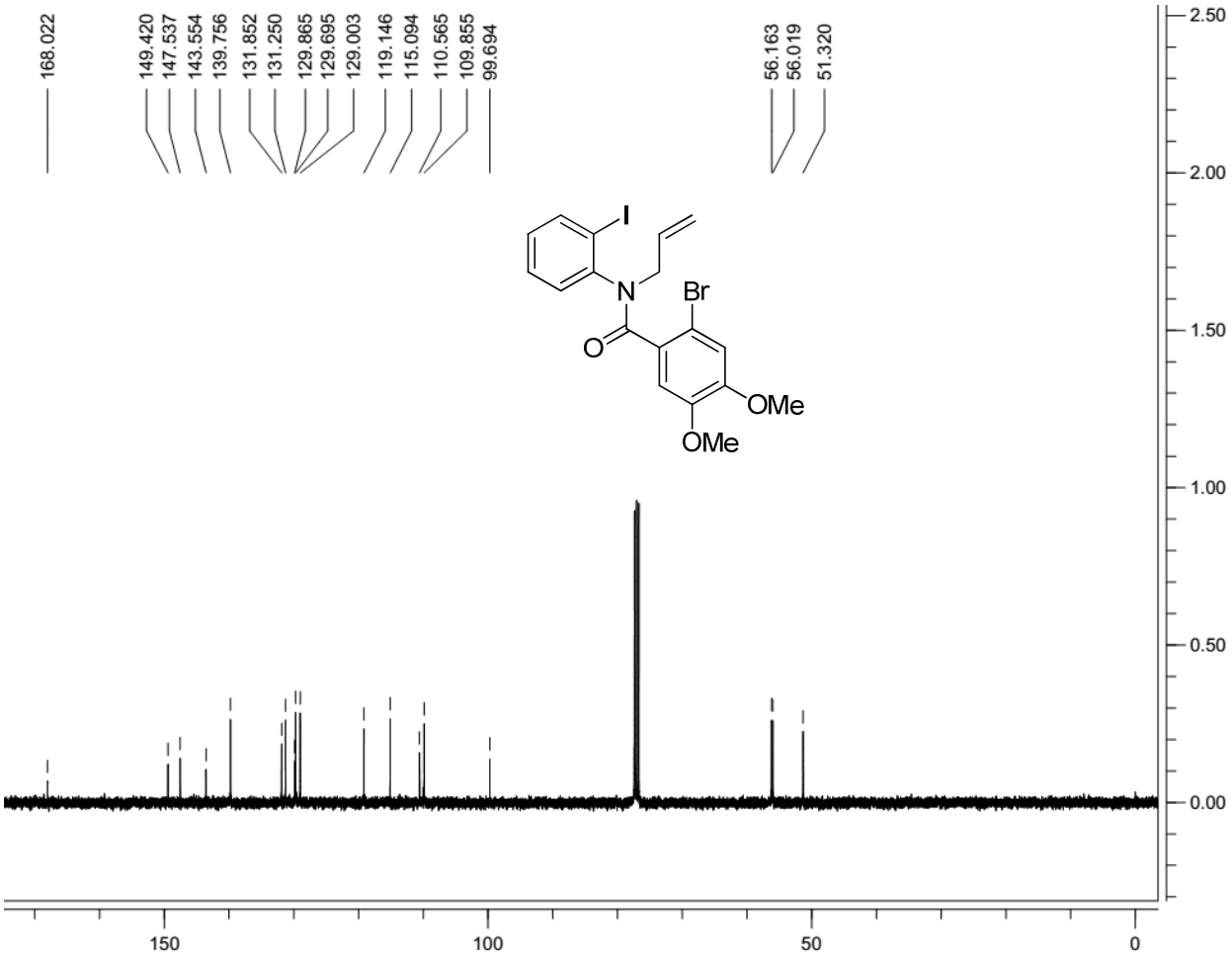

Fig. 48: ^{13}C NMR spectra of compound **1r** ($CDCl_3$, 100 MHz)

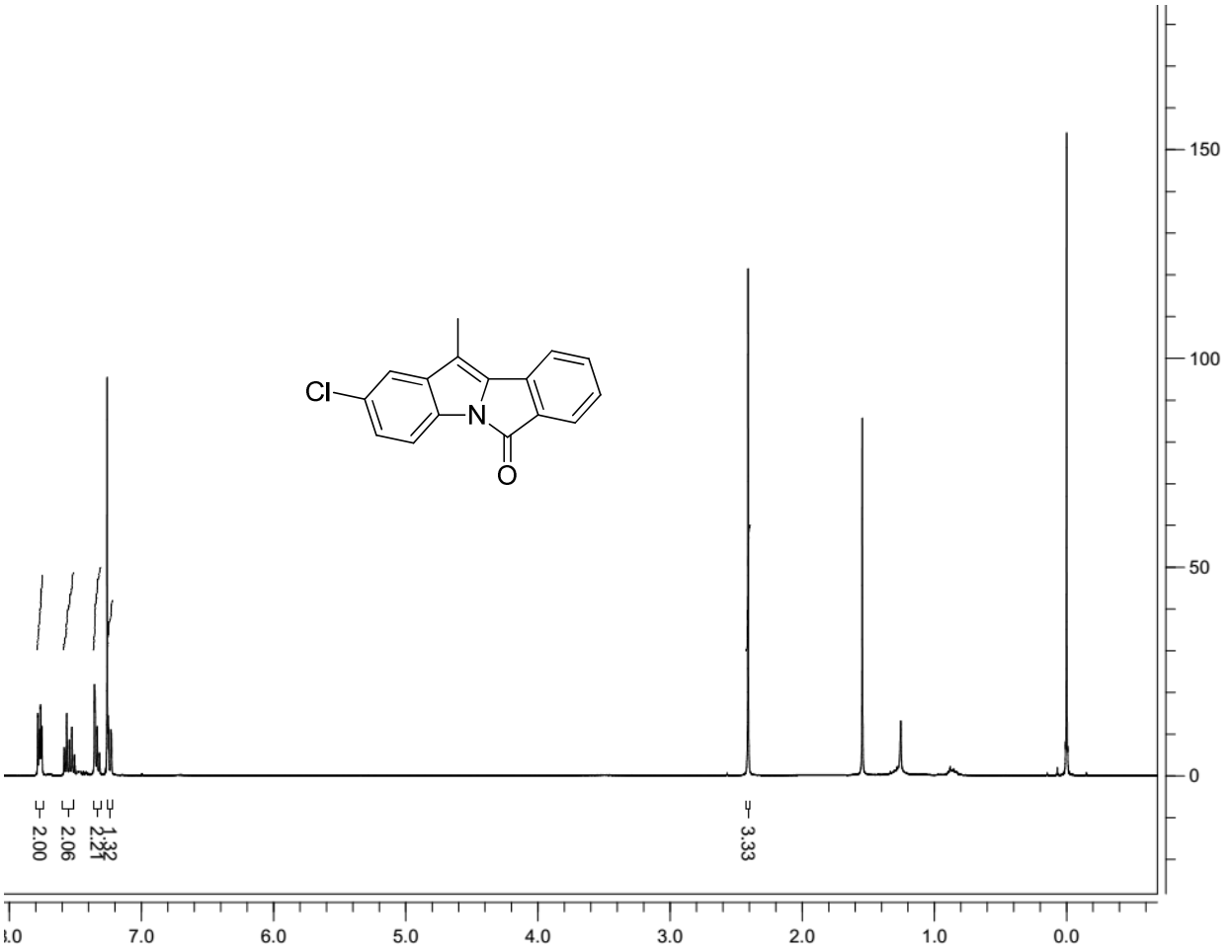

Fig. 49: ^{1}H NMR spectra of compound **2a** ($CDCl_3$, 400 MHz)

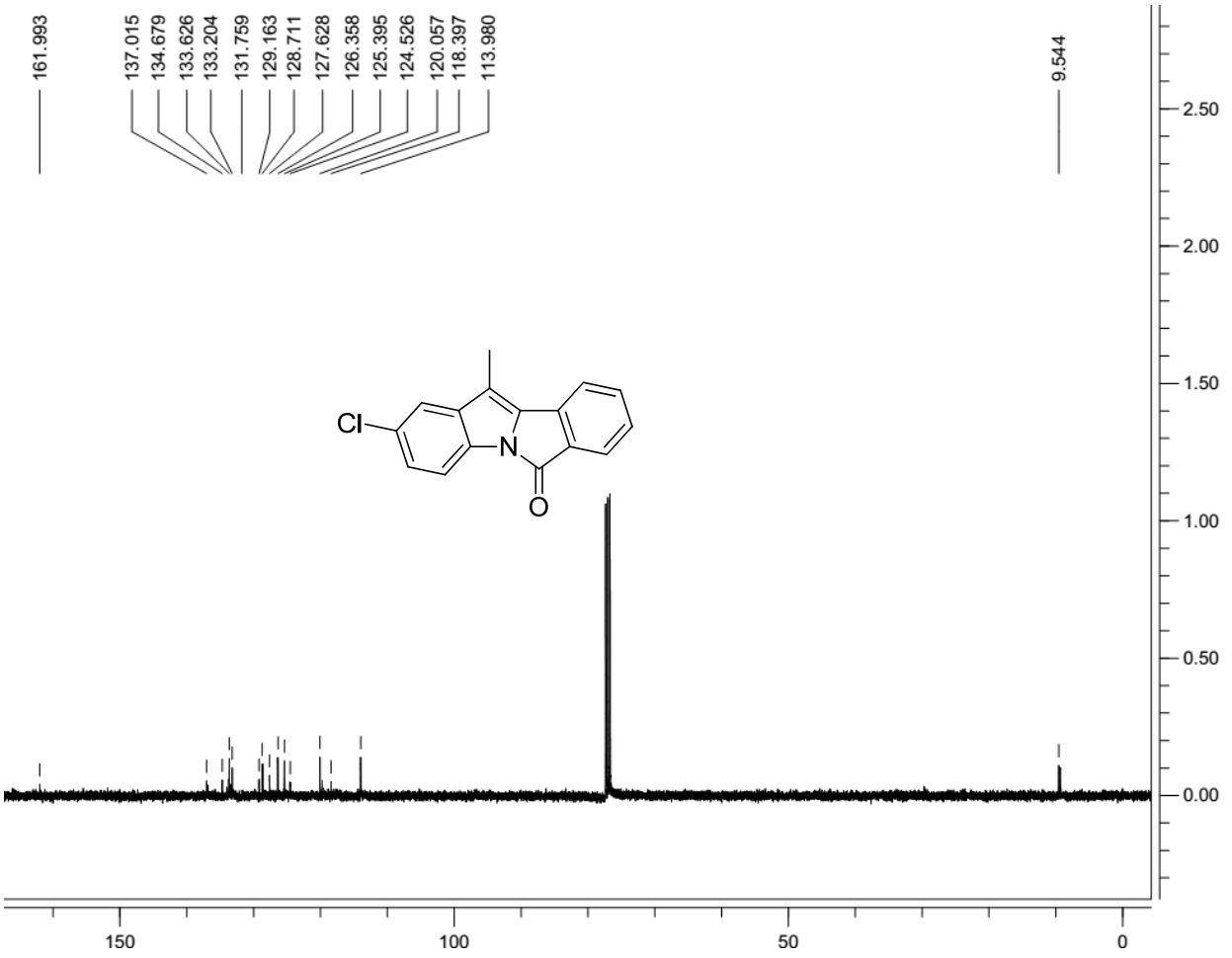

Fig. 50: ^{13}C NMR spectra of compound **2a** ($CDCl_3$, 100 MHz)

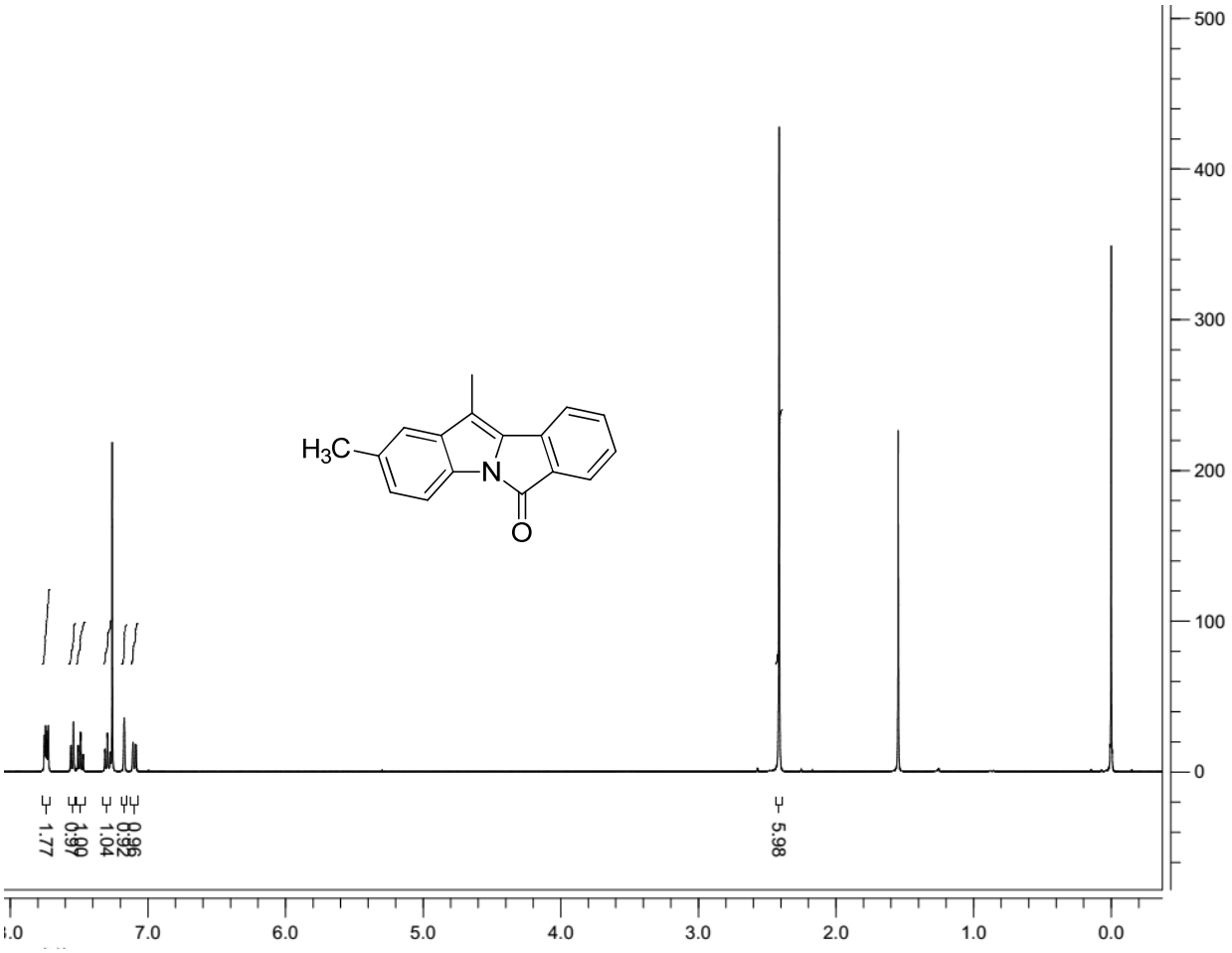

Fig. 51: ^{1}H NMR spectra of compound **2b** ($CDCl_3$, 400 MHz)

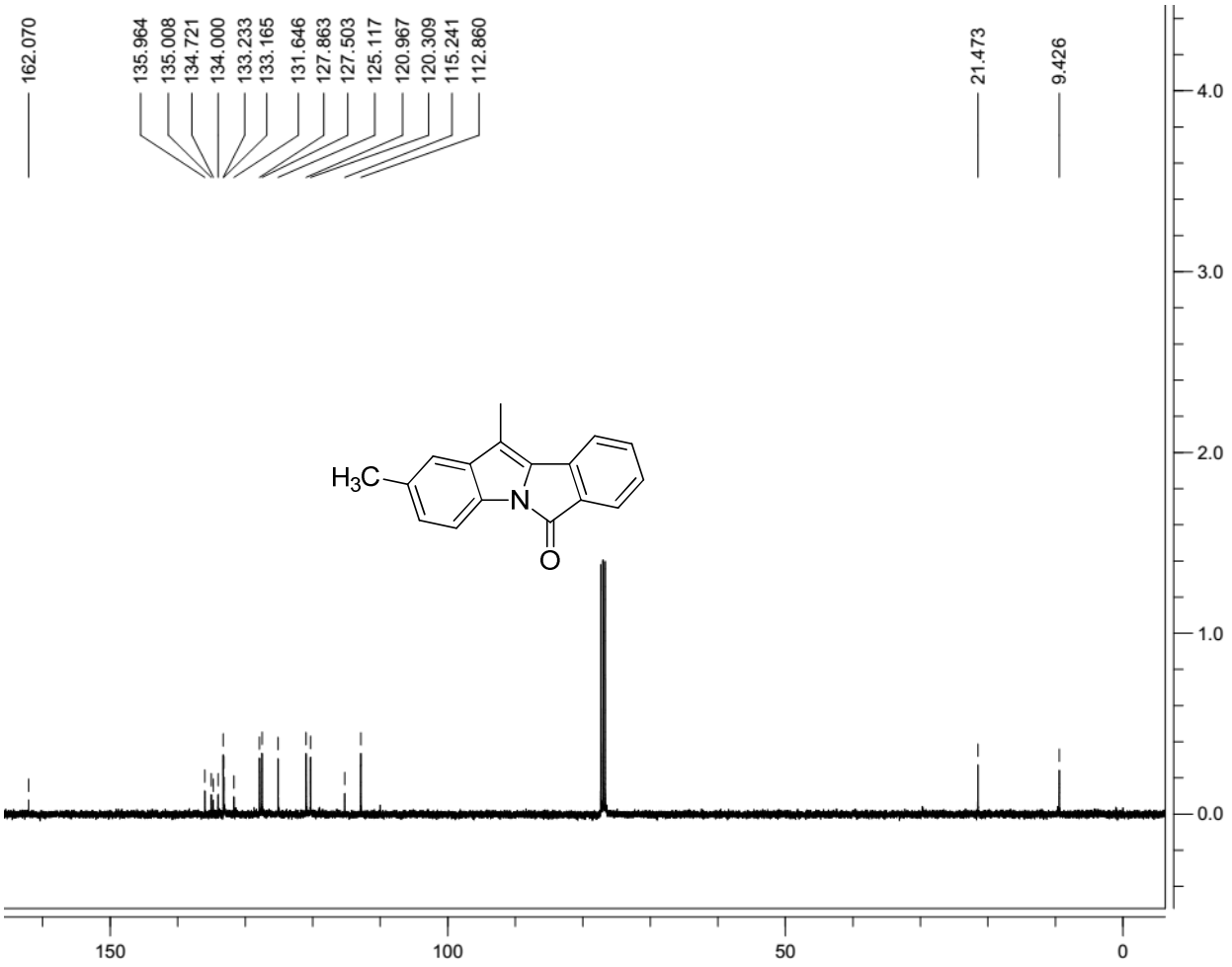

Fig. 52: ^{13}C NMR spectra of compound **2b** ($CDCl_3$, 100 MHz)

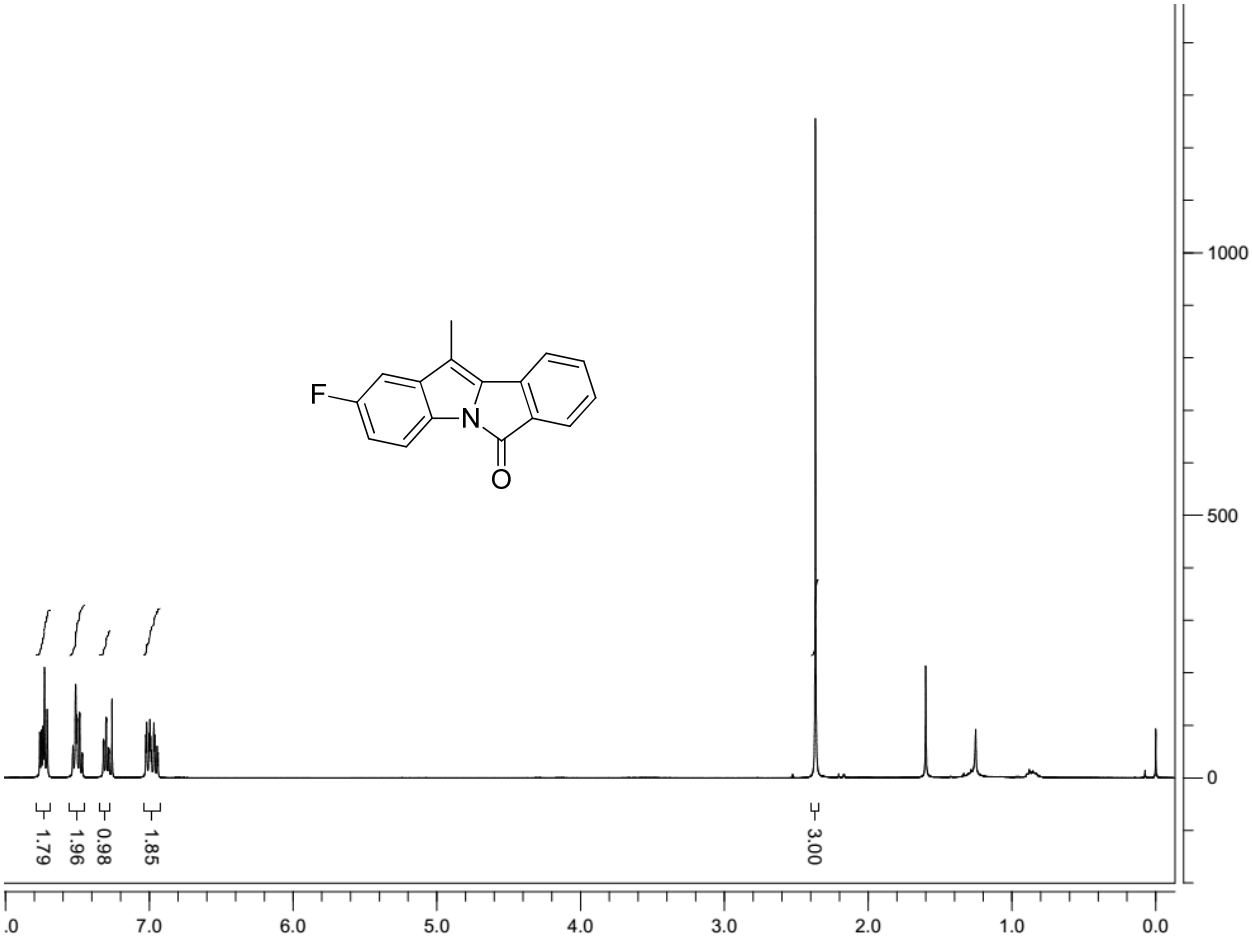

Fig. 53: ^{1}H NMR spectra of compound **2c** ($CDCl_3$, 400 MHz)

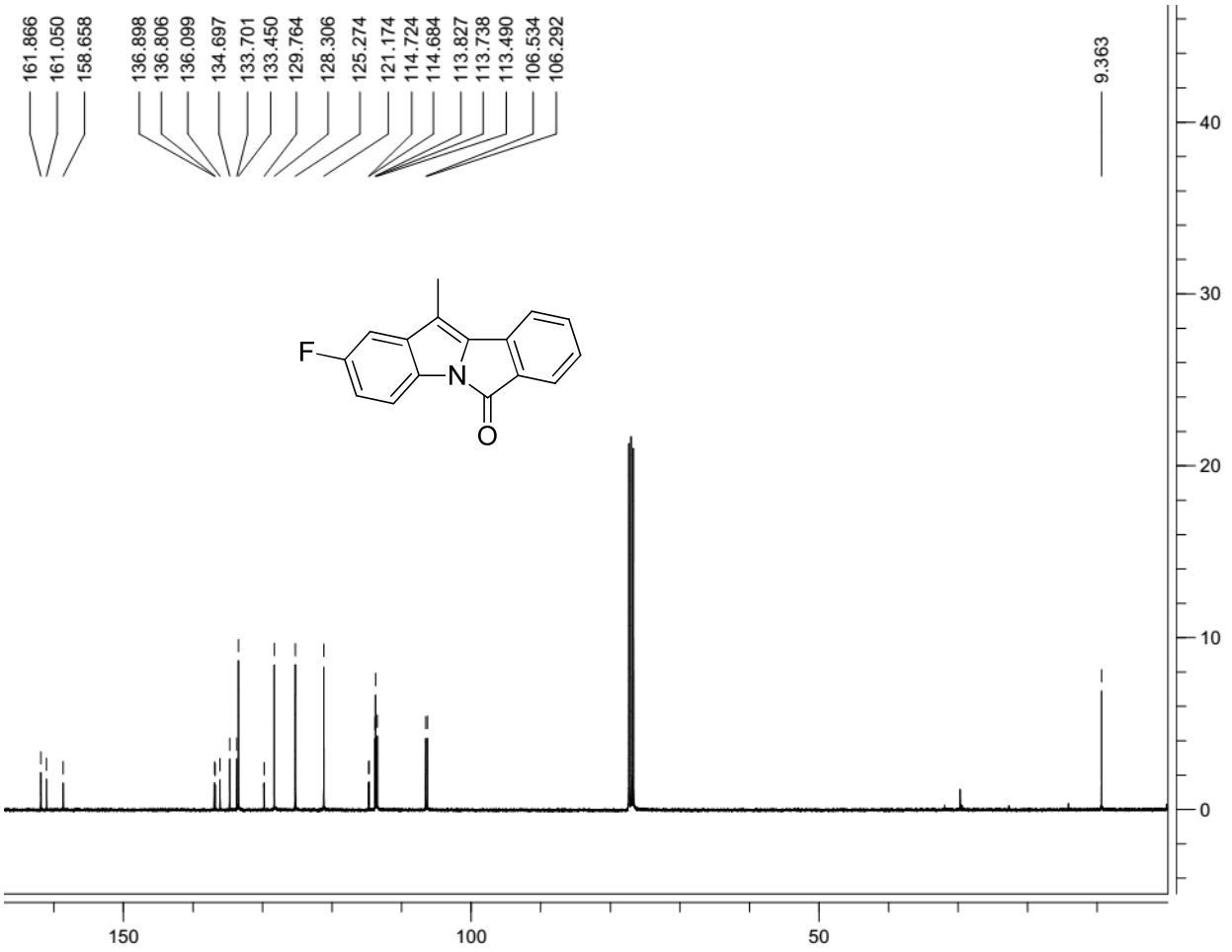

Fig. 54: ^{13}C NMR spectra of compound **2c** ($CDCl_3$, 100 MHz)

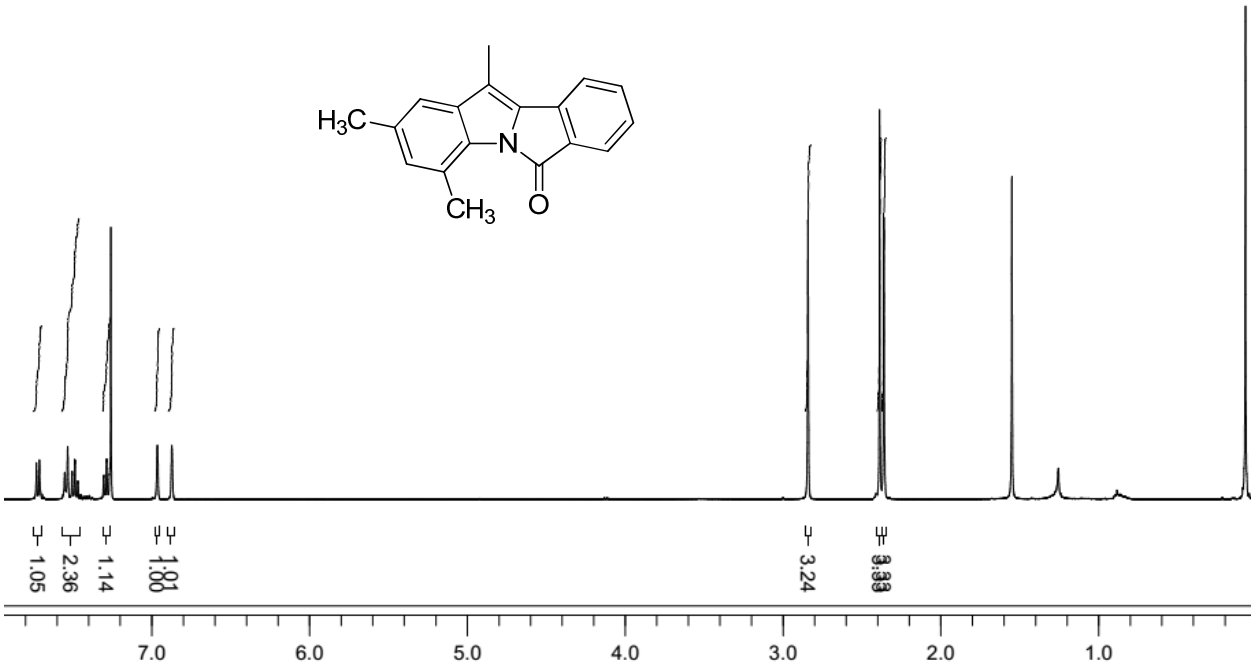

Fig. 55: ^{1}H NMR spectra of compound **2e** ($CDCl_3$, 400 MHz)

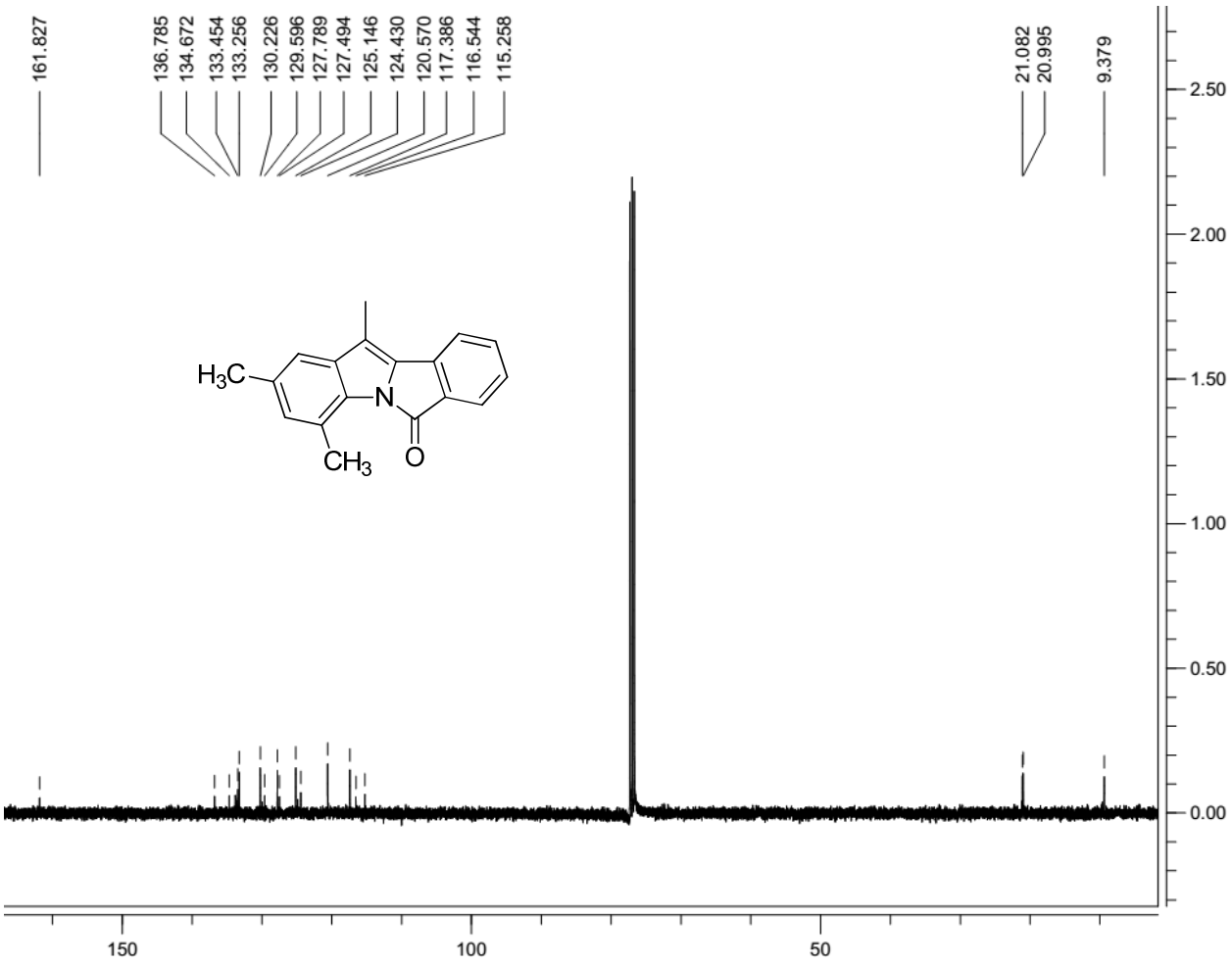

Fig. 56: ^{13}C NMR spectra of compound **2e** ($CDCl_3$, 100 MHz)

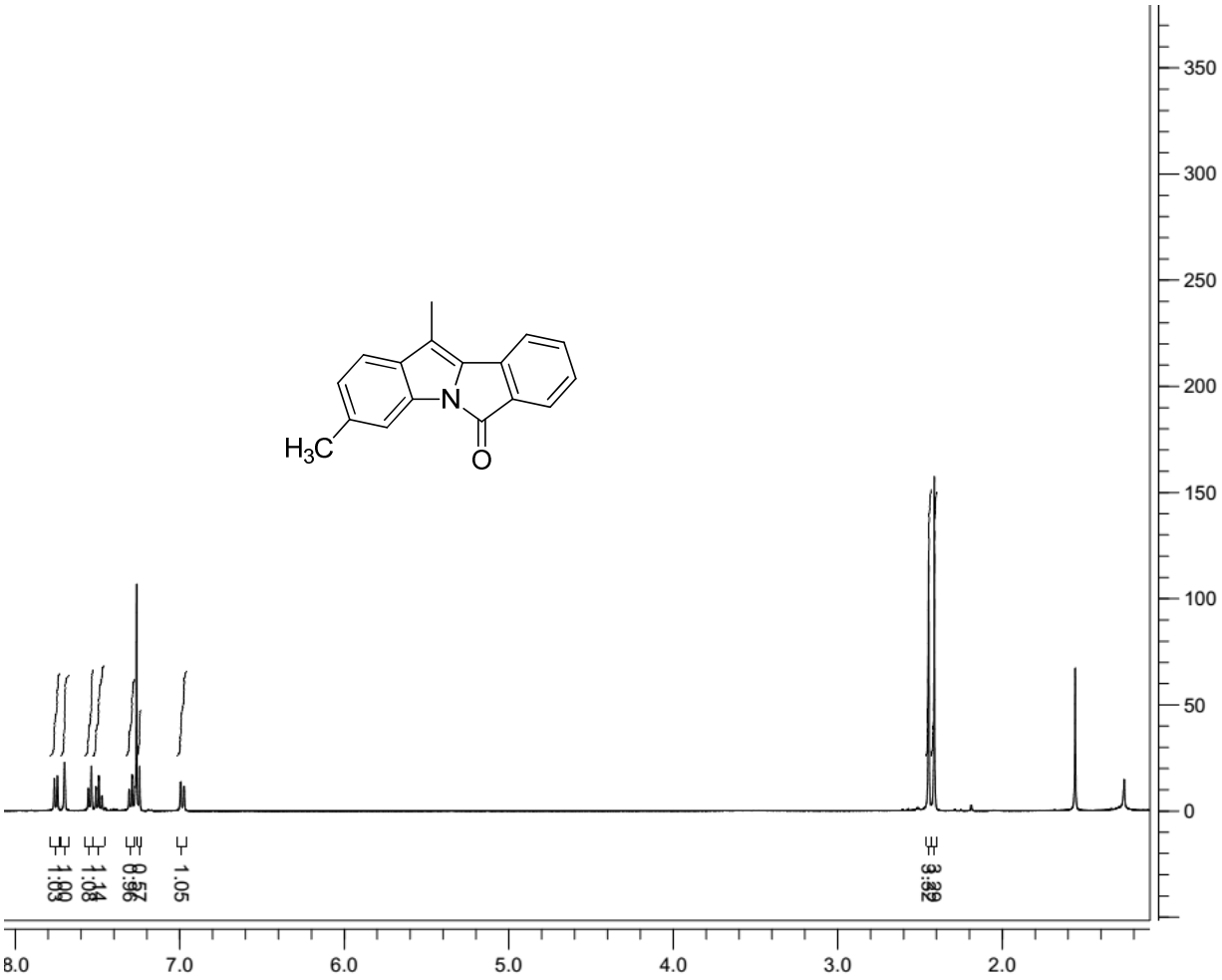

Fig. 57: ^{1}H NMR spectra of compound **2f** ($CDCl_3$, 400 MHz)

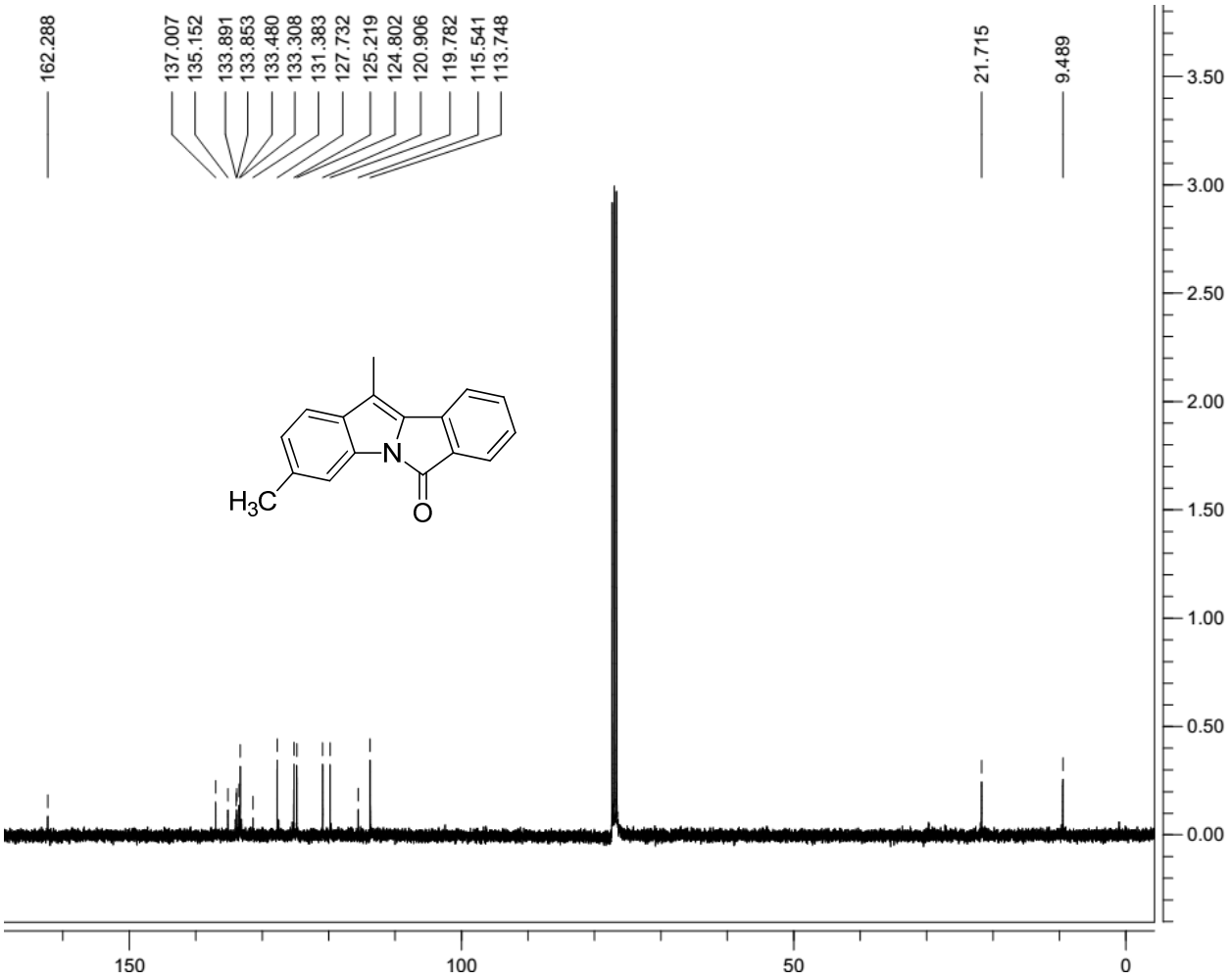

Fig. 58: ^{13}C NMR spectra of compound **2f** ($CDCl_3$, 100 MHz)

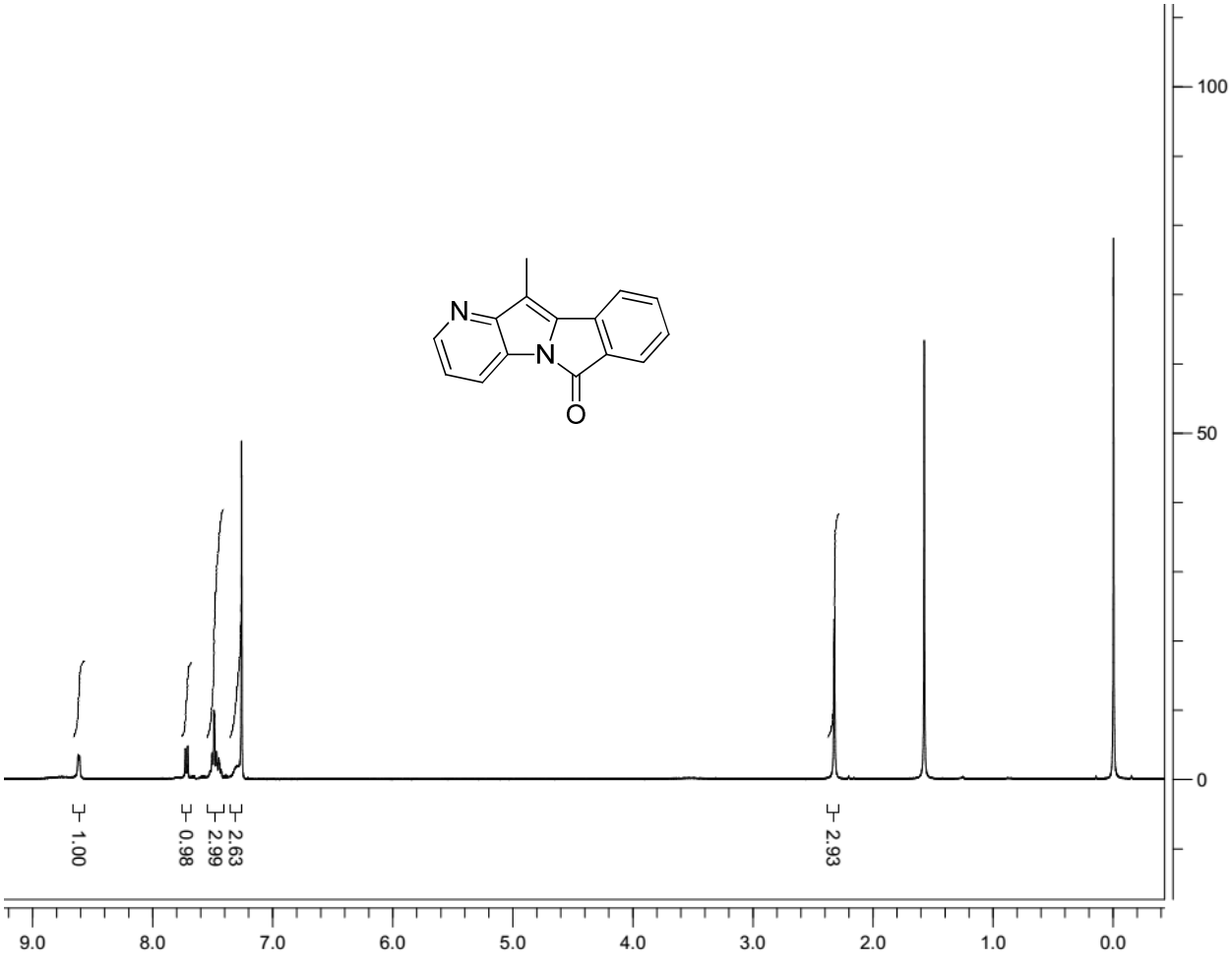

Fig. 59: ^{1}H NMR spectra of compound **2g** ($CDCl_3$, 400 MHz)

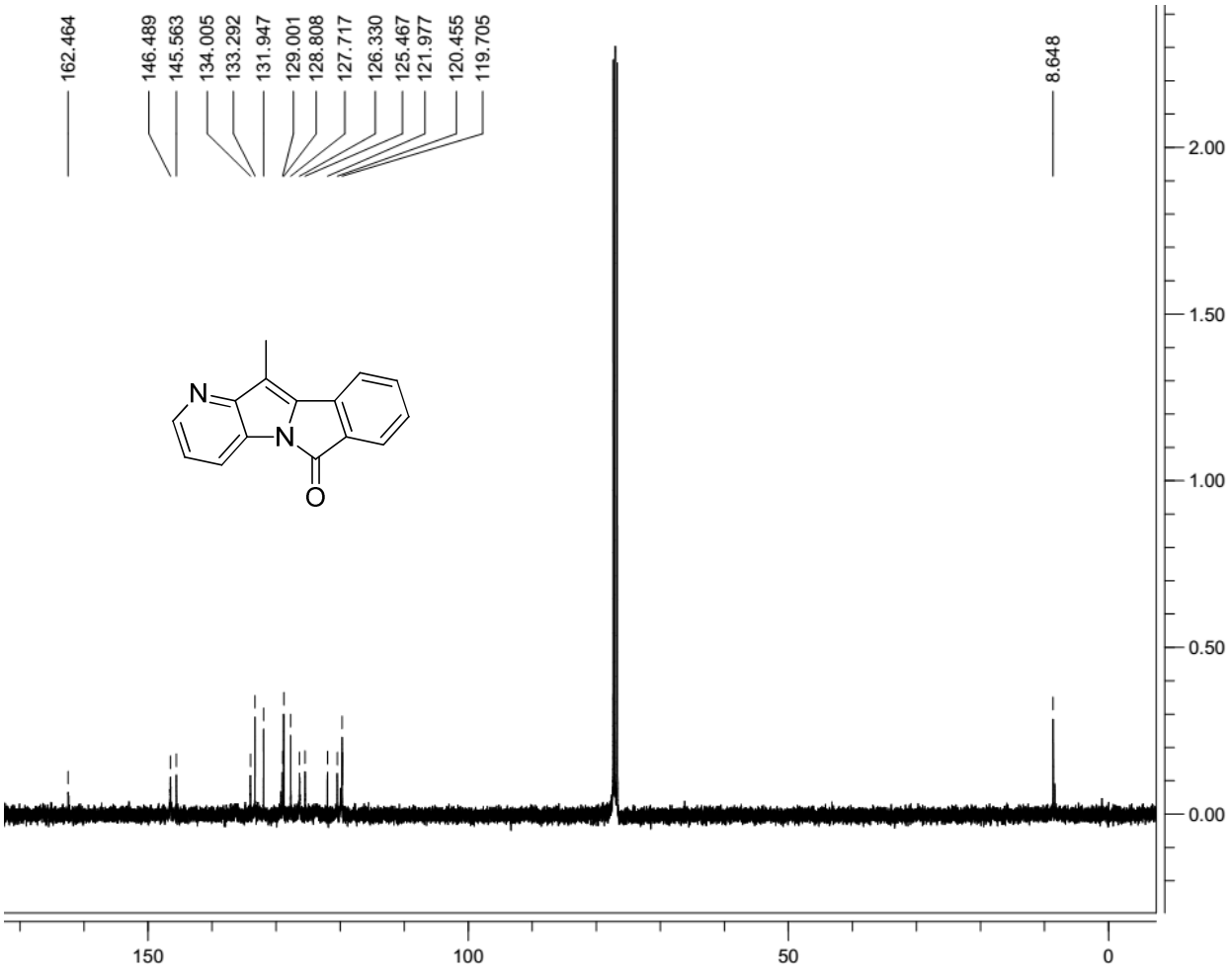

Fig. 60: ^{13}C NMR spectra of compound **2g** ($CDCl_3$, 100 MHz)

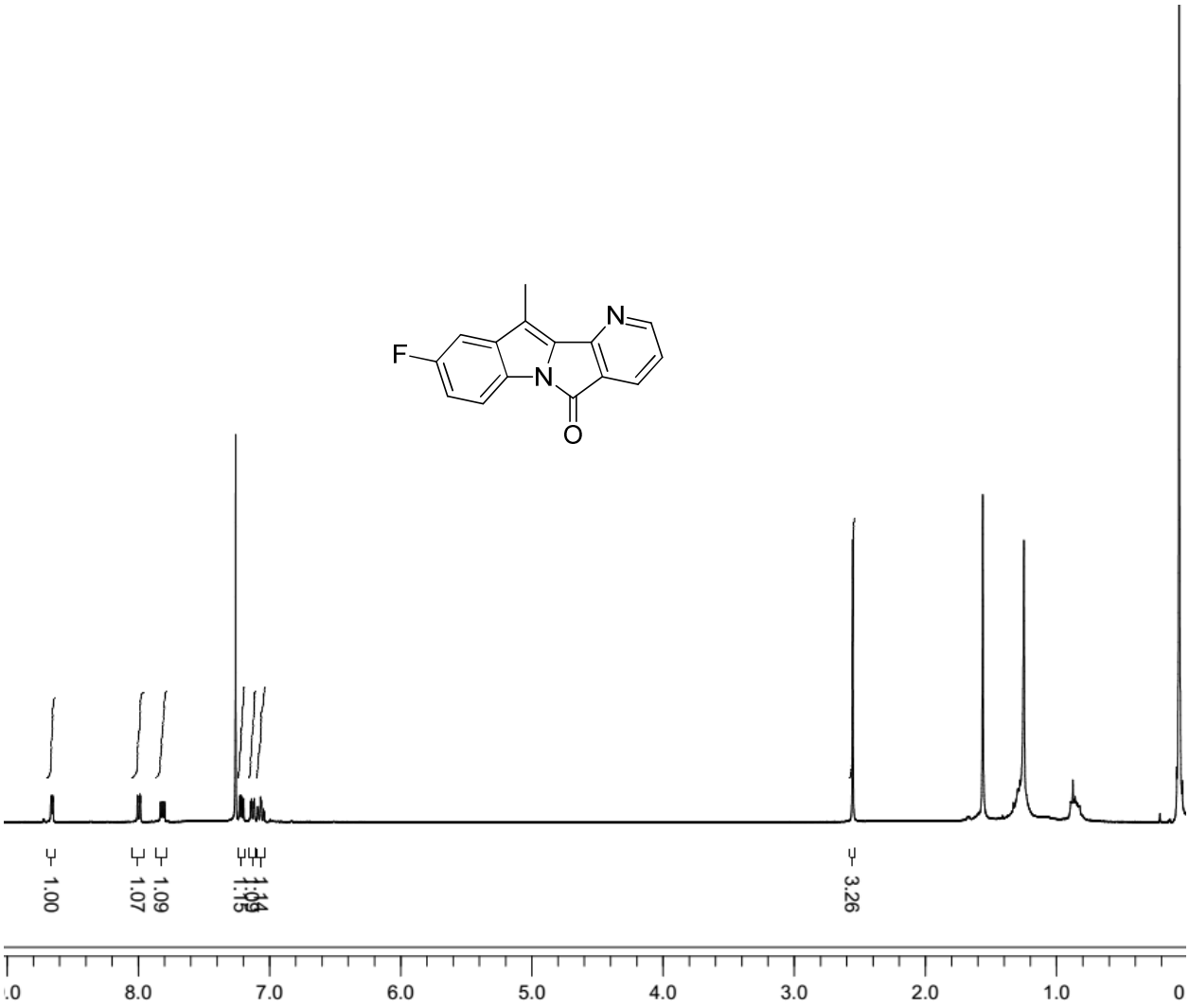

Fig. 61: ^{1}H NMR spectra of compound **2h** ($CDCl_3$, 400 MHz)

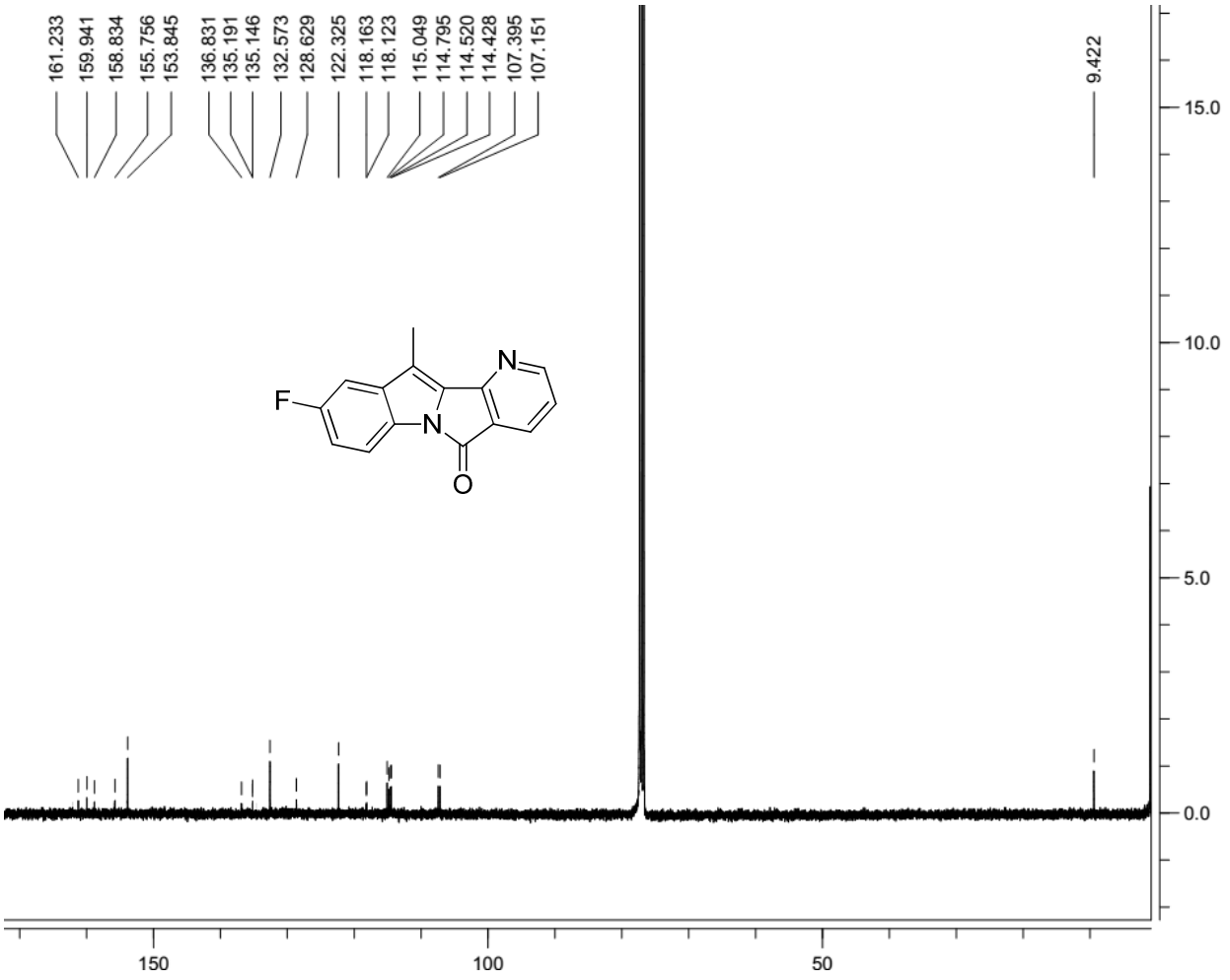

Fig. 62: ^{13}C NMR spectra of compound **2h** ($CDCl_3$, 100 MHz)

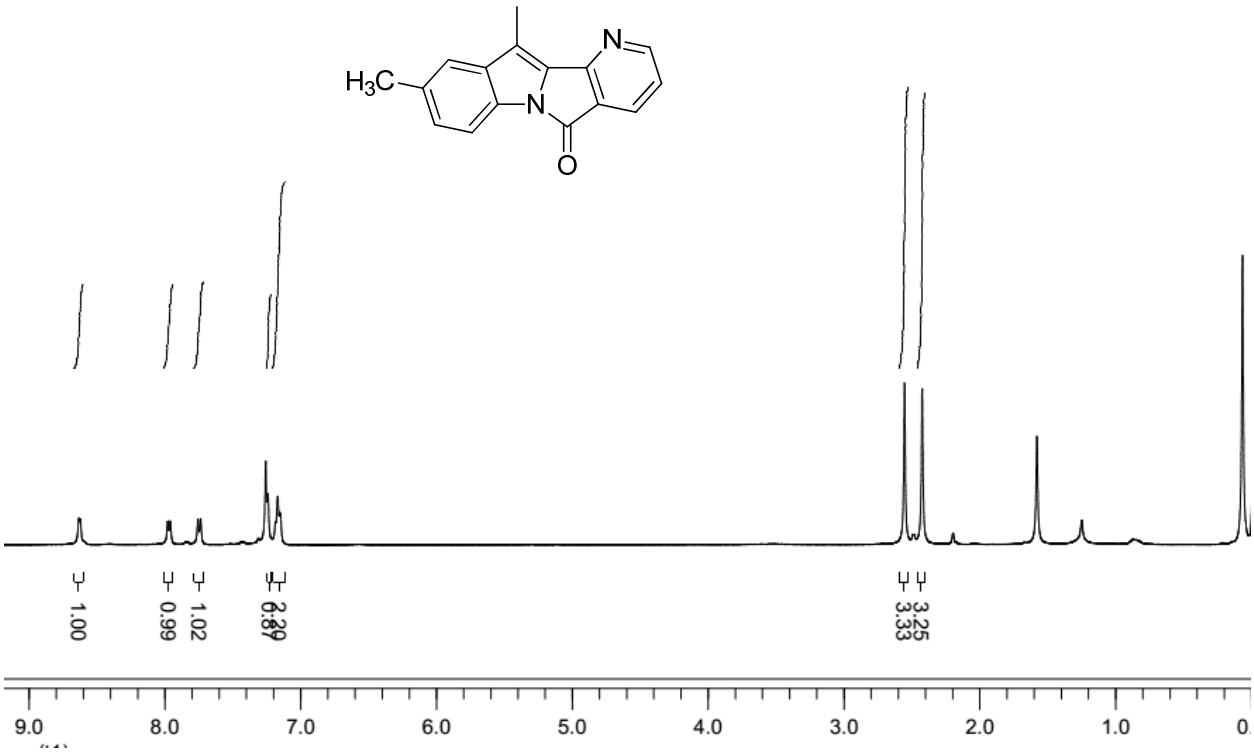

Fig. 63: ^{1}H NMR spectra of compound **2i** ($CDCl_3$, 400 MHz)

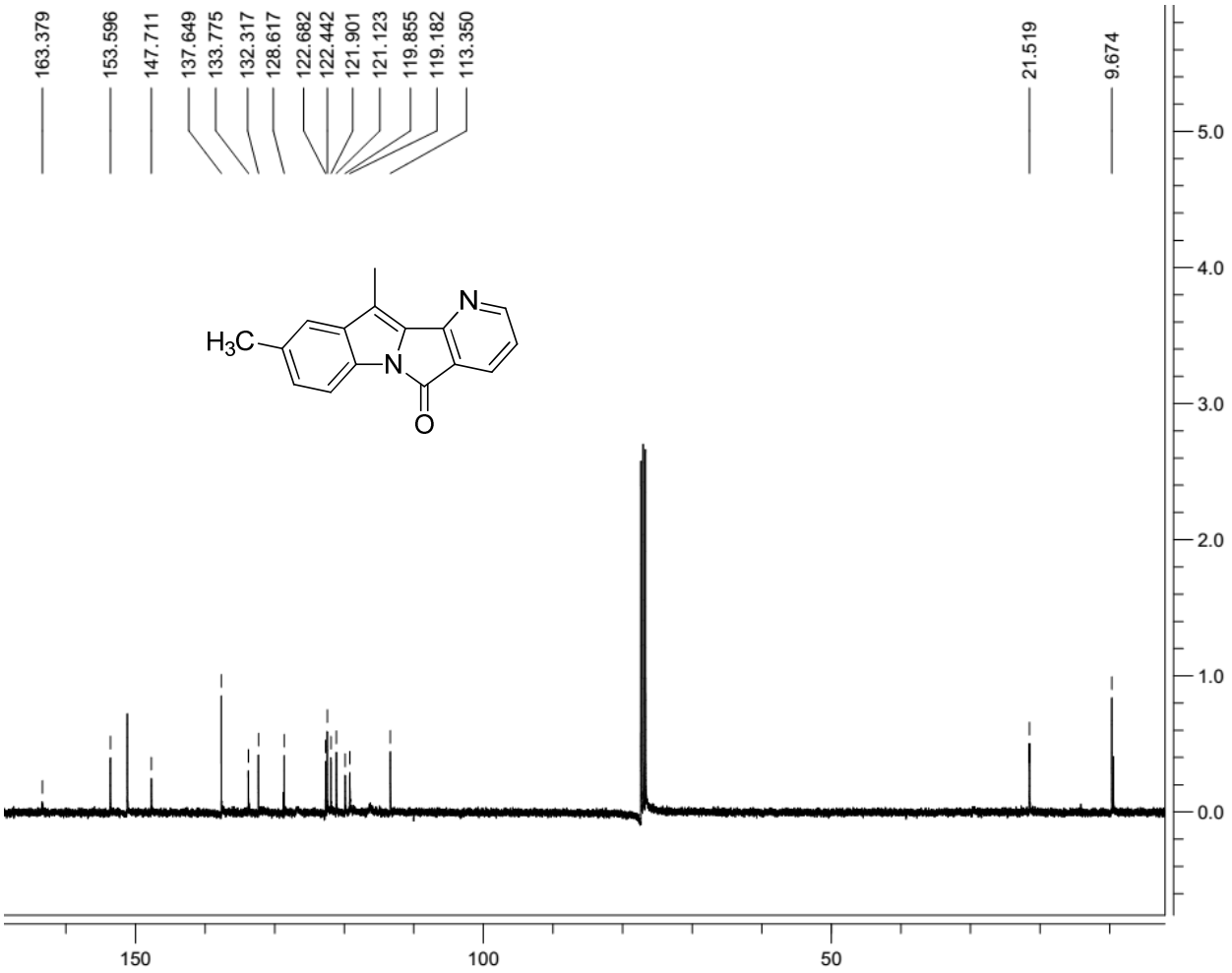

Fig. 64: ^{13}C NMR spectra of compound **2i** ($CDCl_3$, 100 MHz)

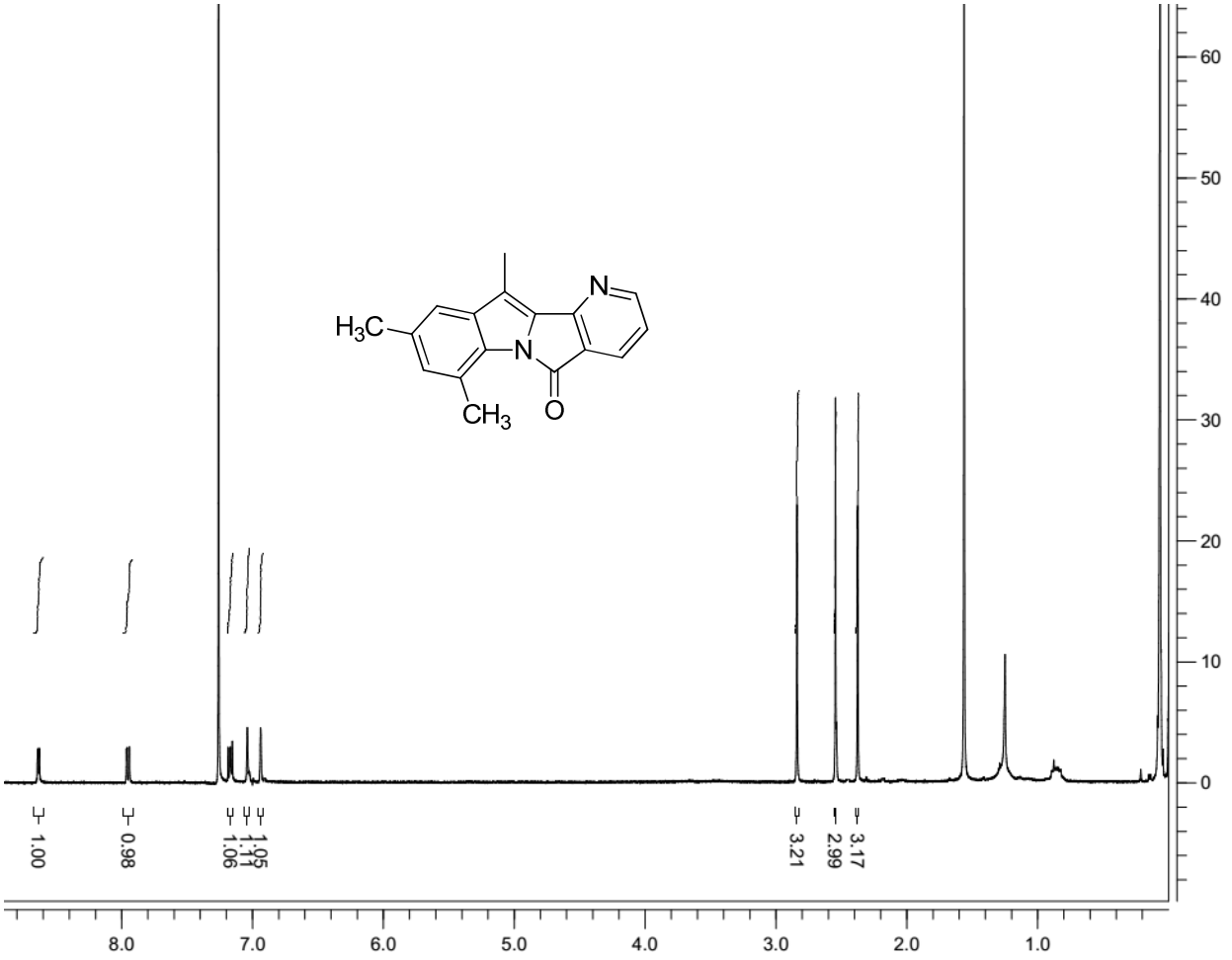

Fig. 65: ^{1}H NMR spectra of compound **2j** ($CDCl_3$, 400 MHz)

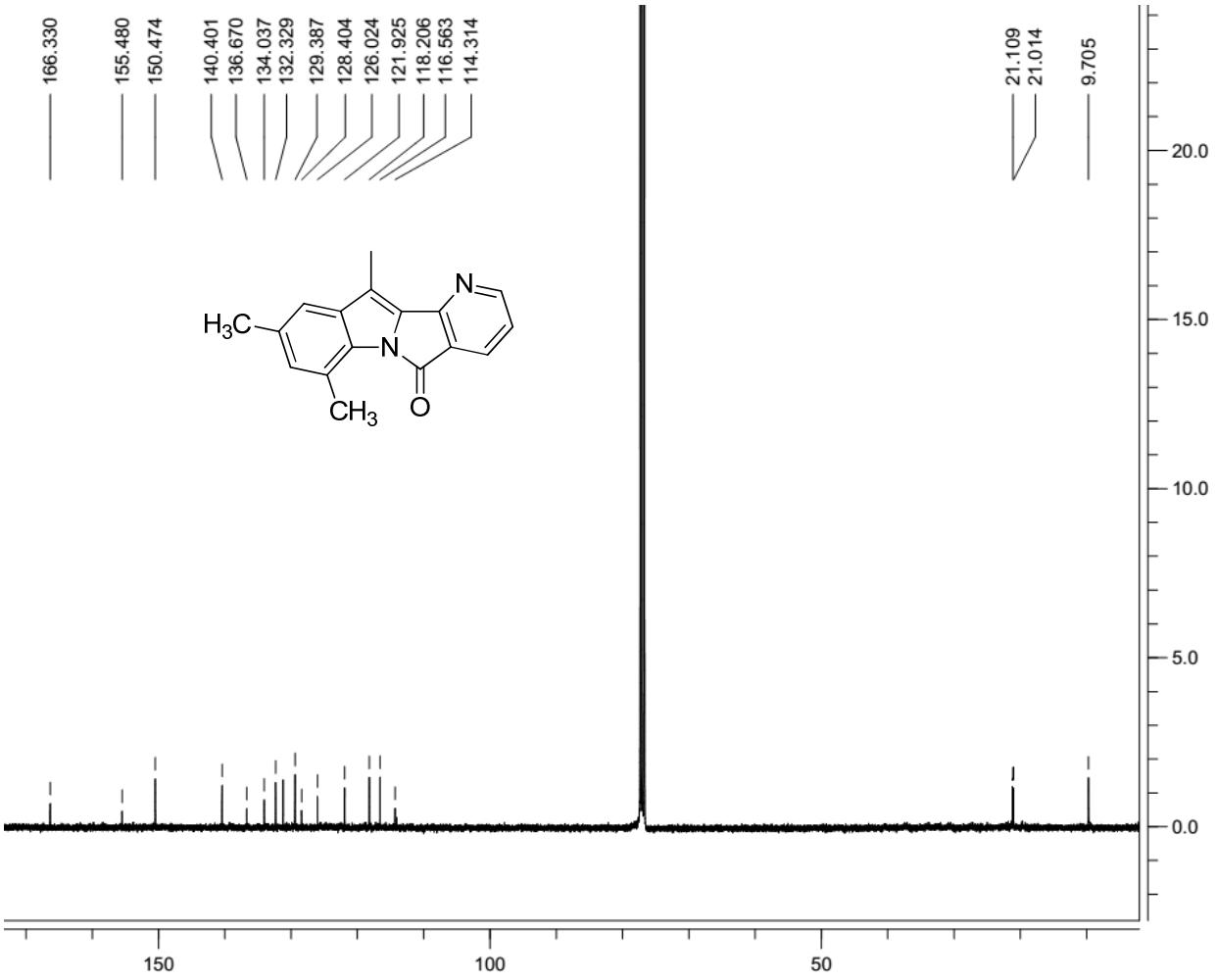

Fig. 66: ^{13}C NMR spectra of compound **2j** ($CDCl_3$, 100 MHz)

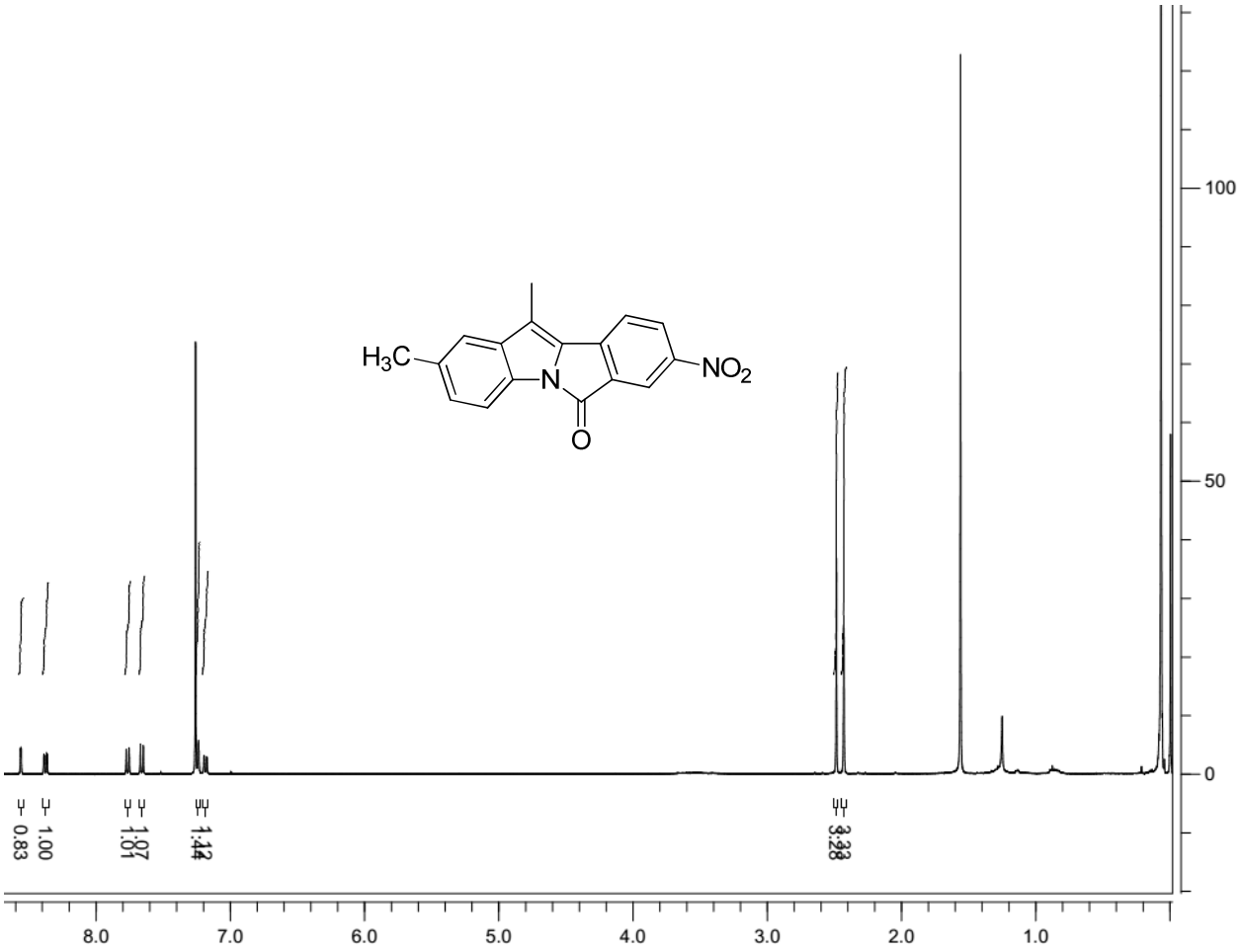

Fig. 67: ^{1}H NMR spectra of compound **2k** ($CDCl_3$, 400 MHz)

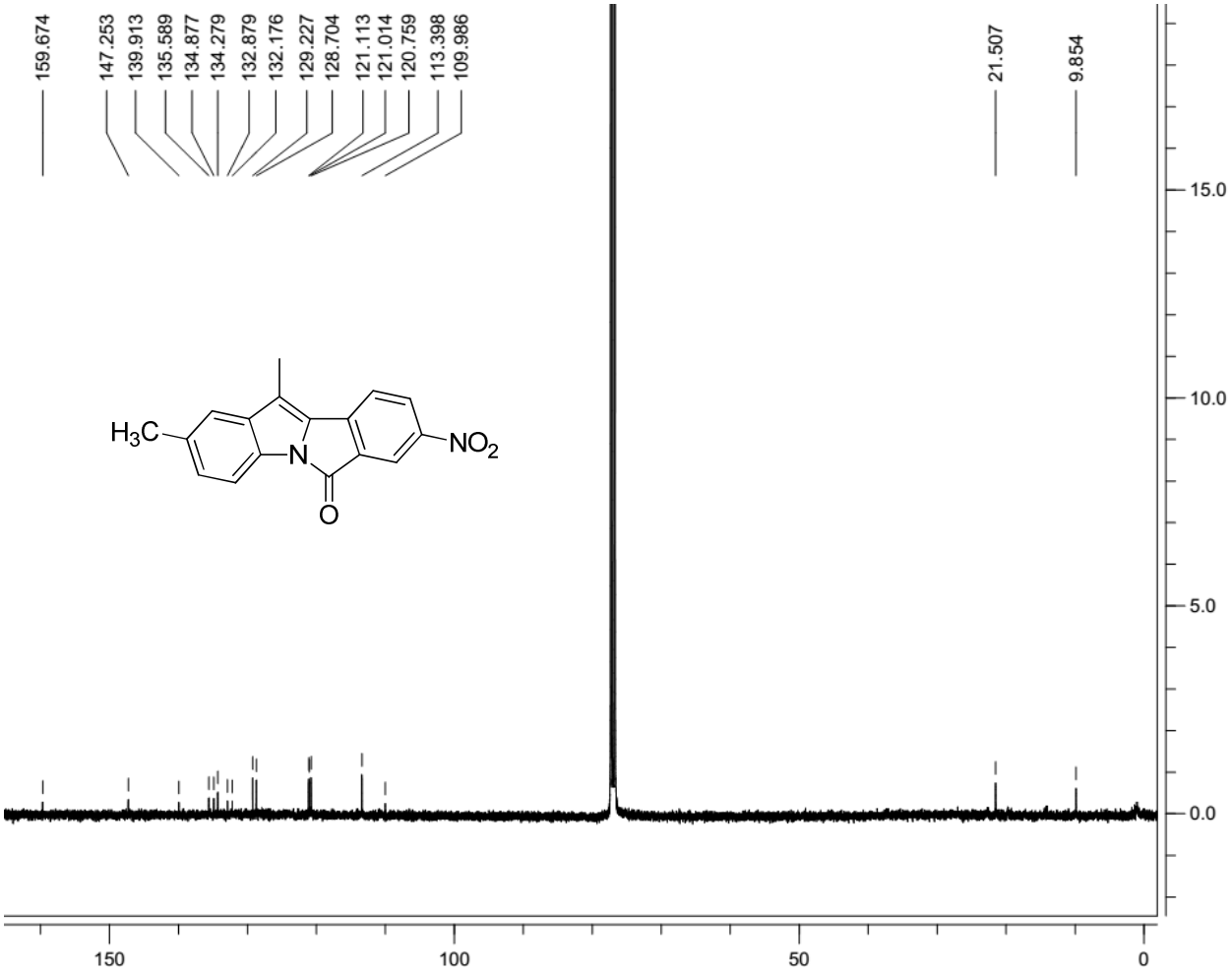

Fig. 68: ^{13}C NMR spectra of compound **2k** ($CDCl_3$, 100 MHz)

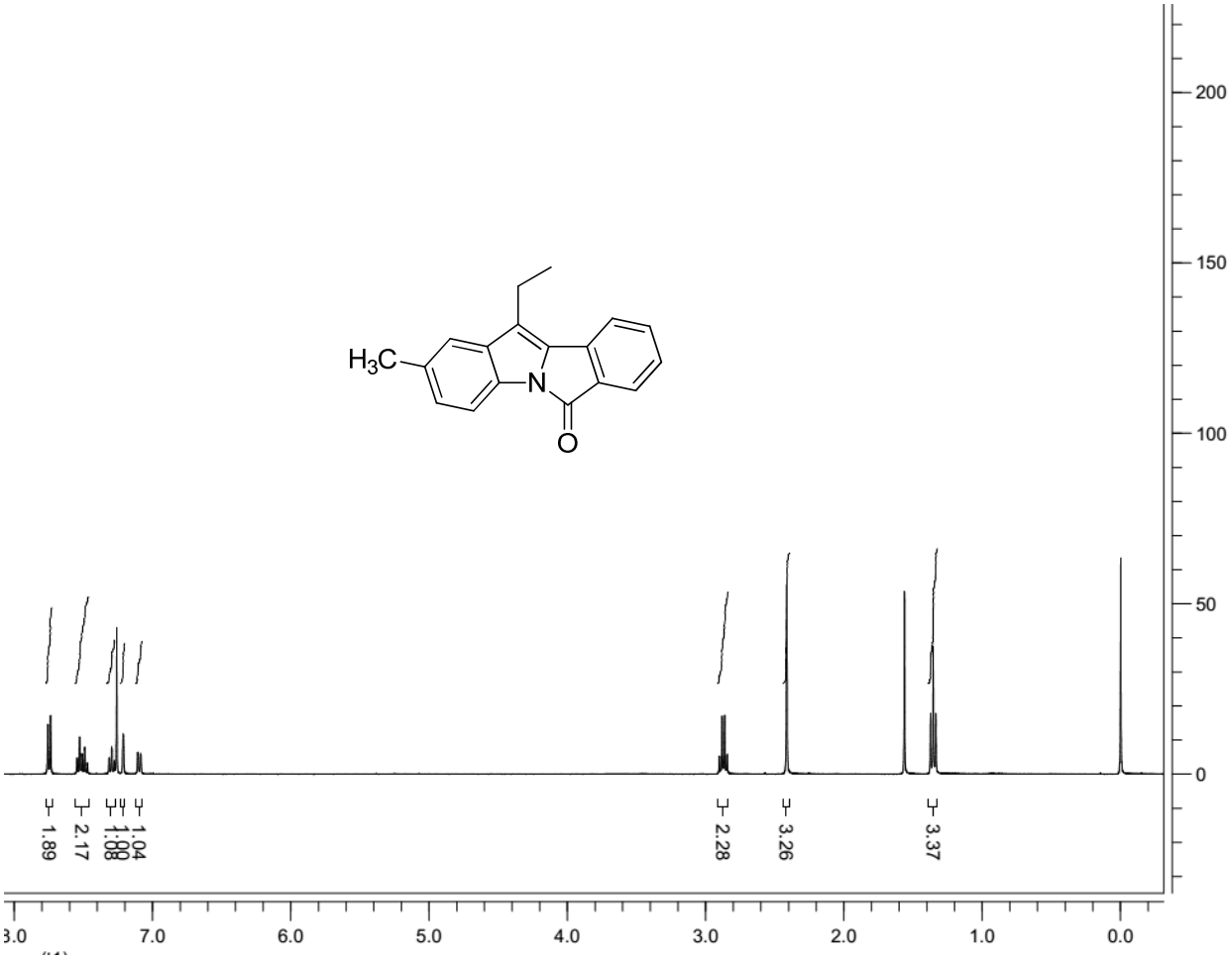

Fig. 69: ^{1}H NMR spectra of compound **2l** ($CDCl_3$, 400 MHz)

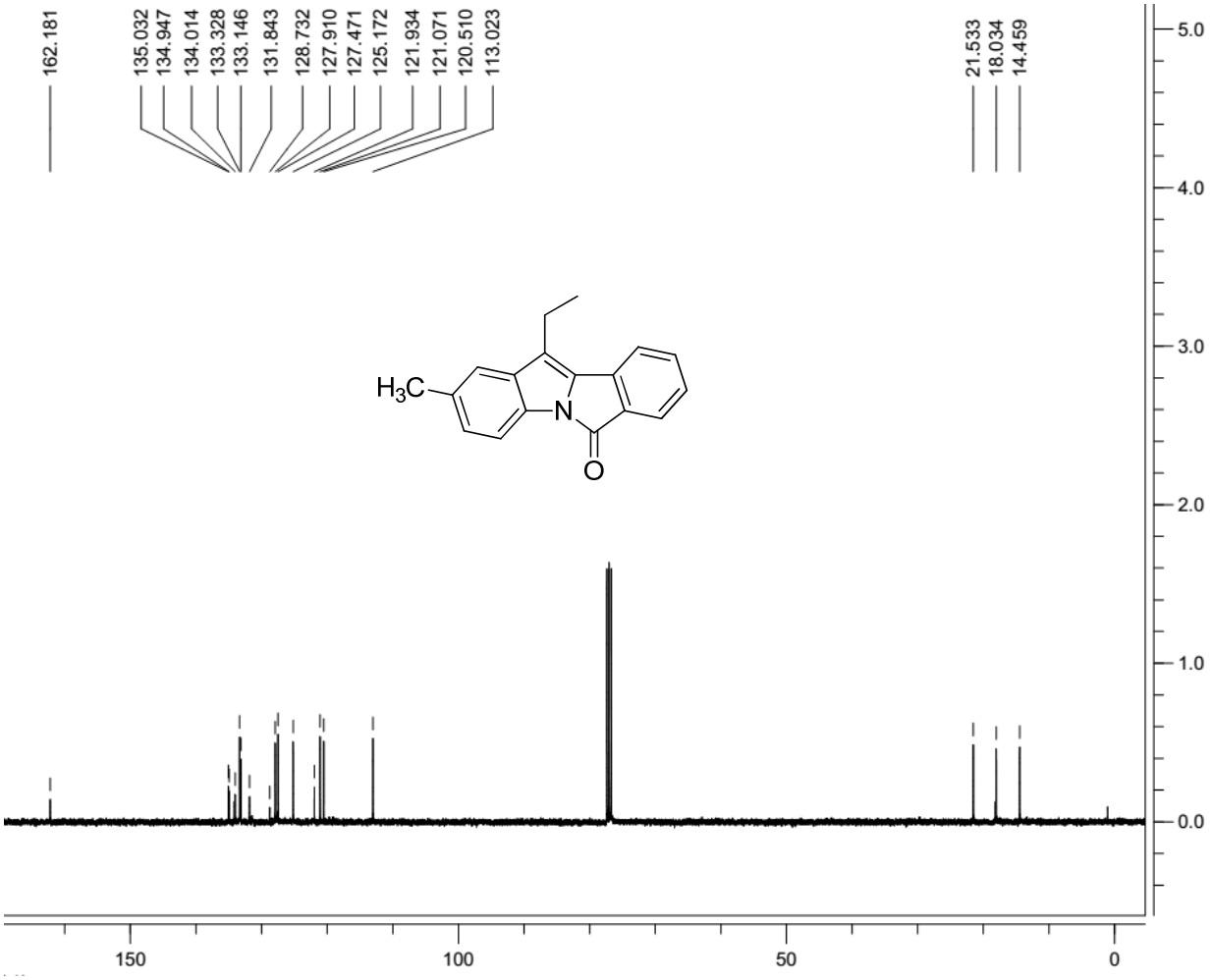

Fig. 70: ^{13}C NMR spectra of compound **2l** ($CDCl_3$, 100 MHz)

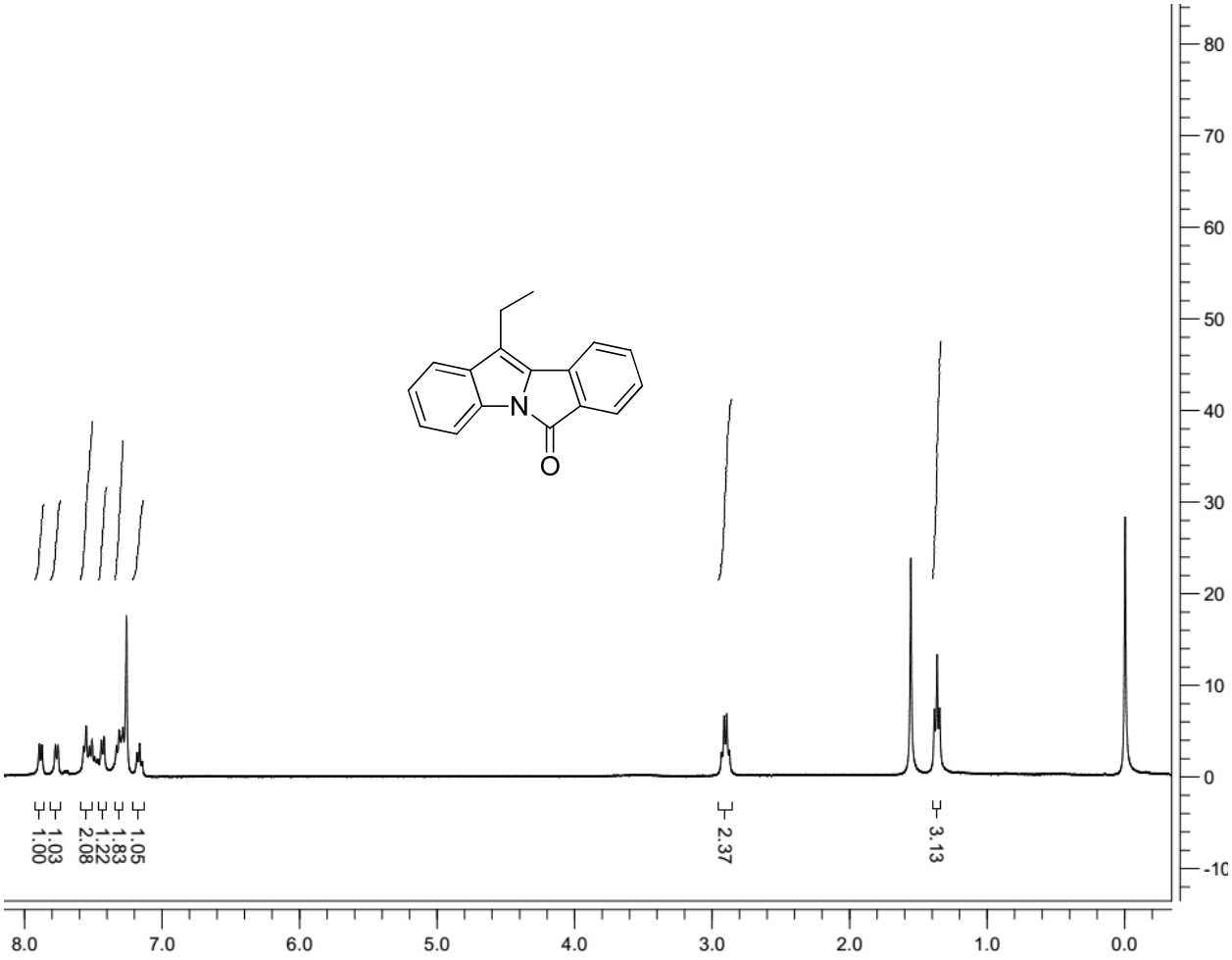

Fig. 71: ^{1}H NMR spectra of compound **2m** ($CDCl_3$, 400 MHz)

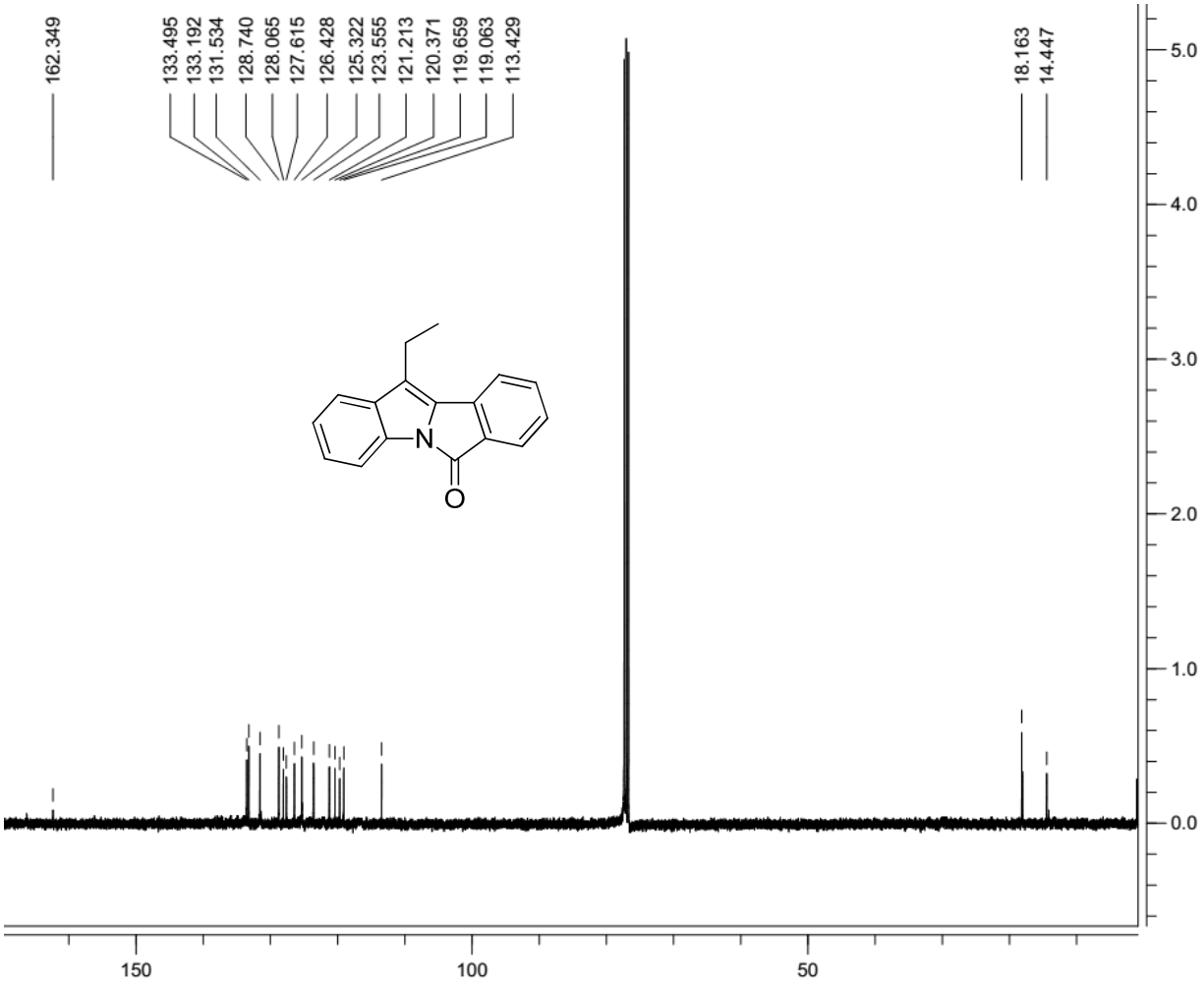

Fig. 72: ^{13}C NMR spectra of compound **2m** ($CDCl_3$, 100 MHz)

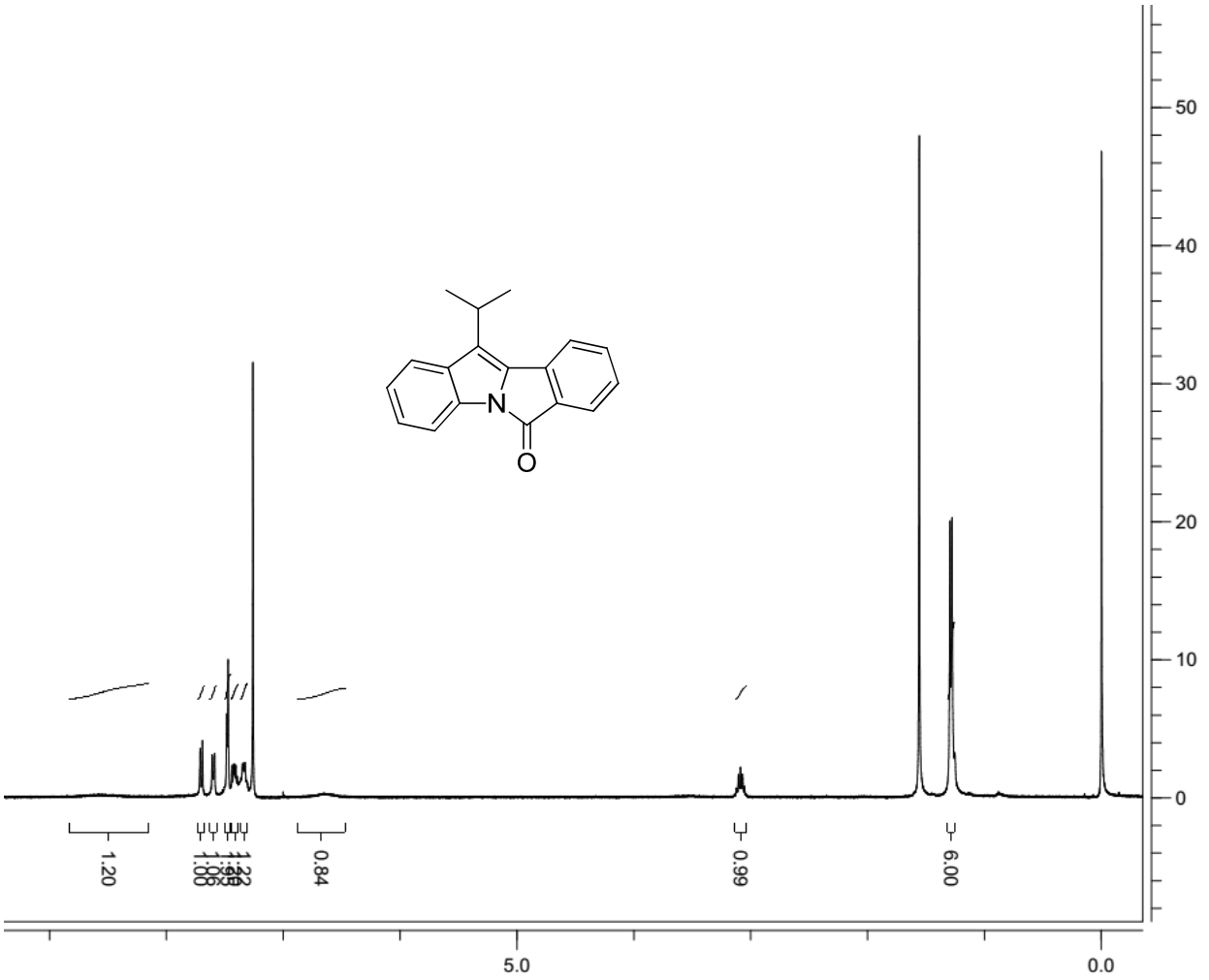

Fig. 73: ^{1}H NMR spectra of compound **2n** ($CDCl_3$, 400 MHz)

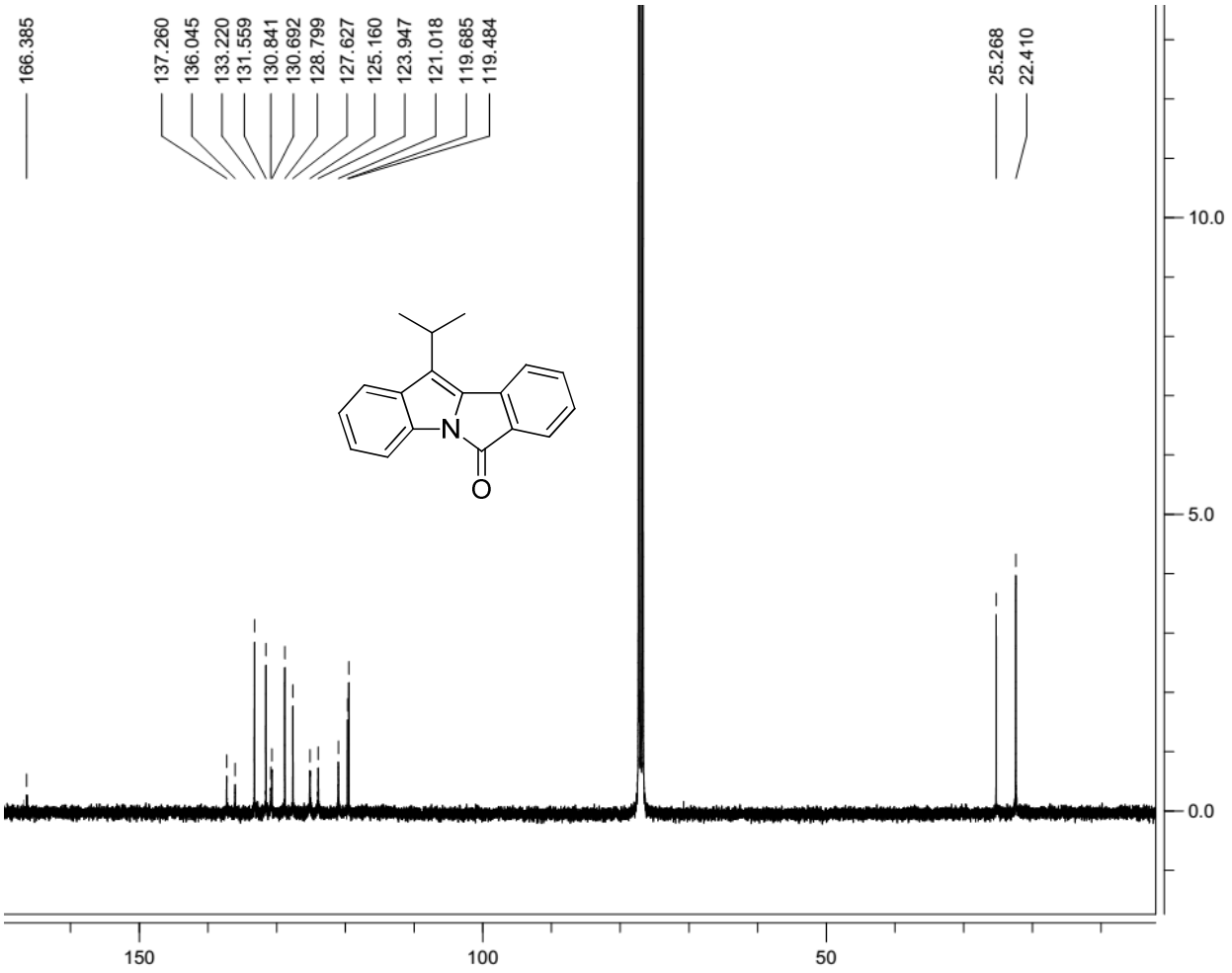

Fig. 74: ^{13}C NMR spectra of compound **2n** ($CDCl_3$, 100 MHz)

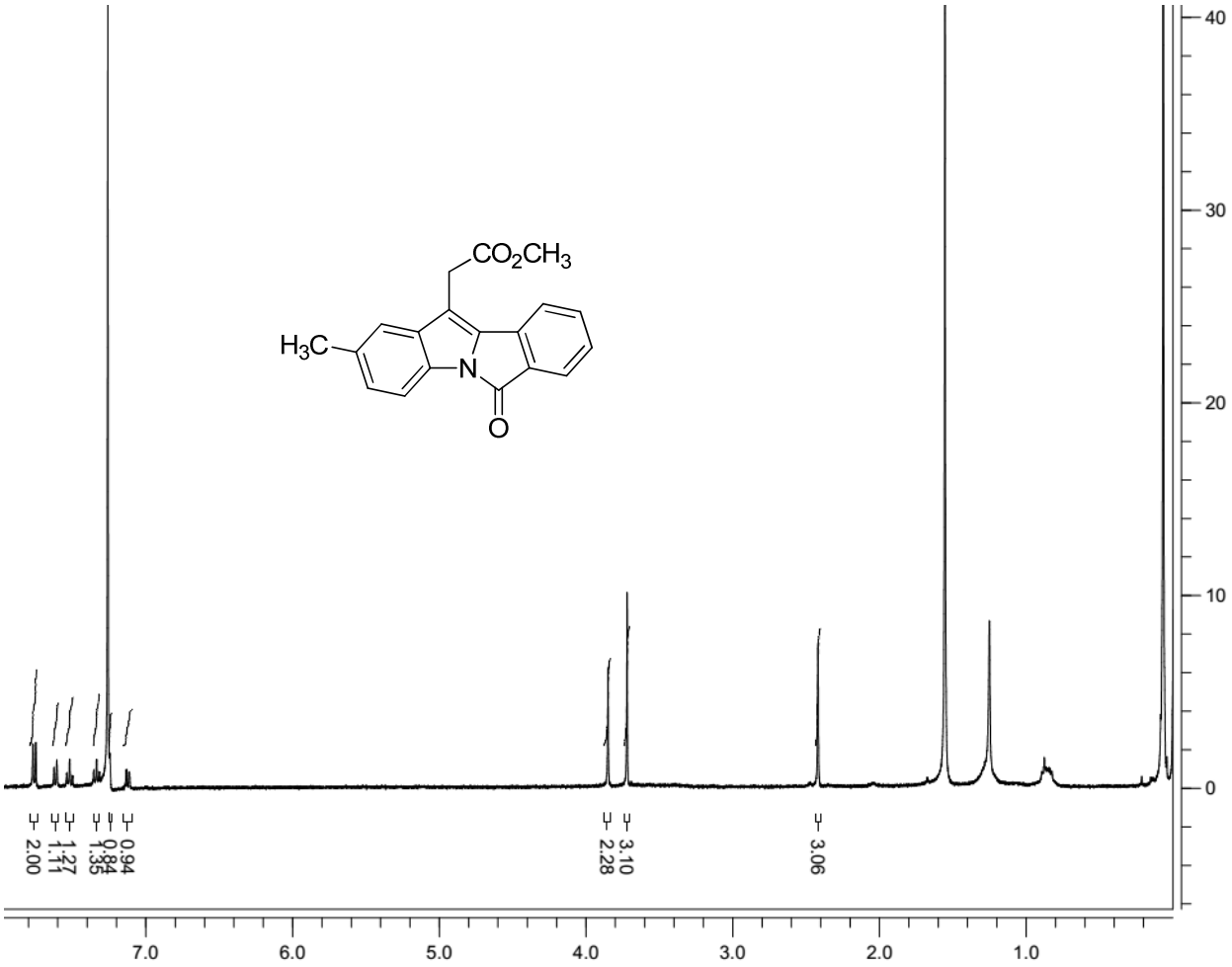

Fig. 75: ^{1}H NMR spectra of compound **2o** ($CDCl_3$, 400 MHz)

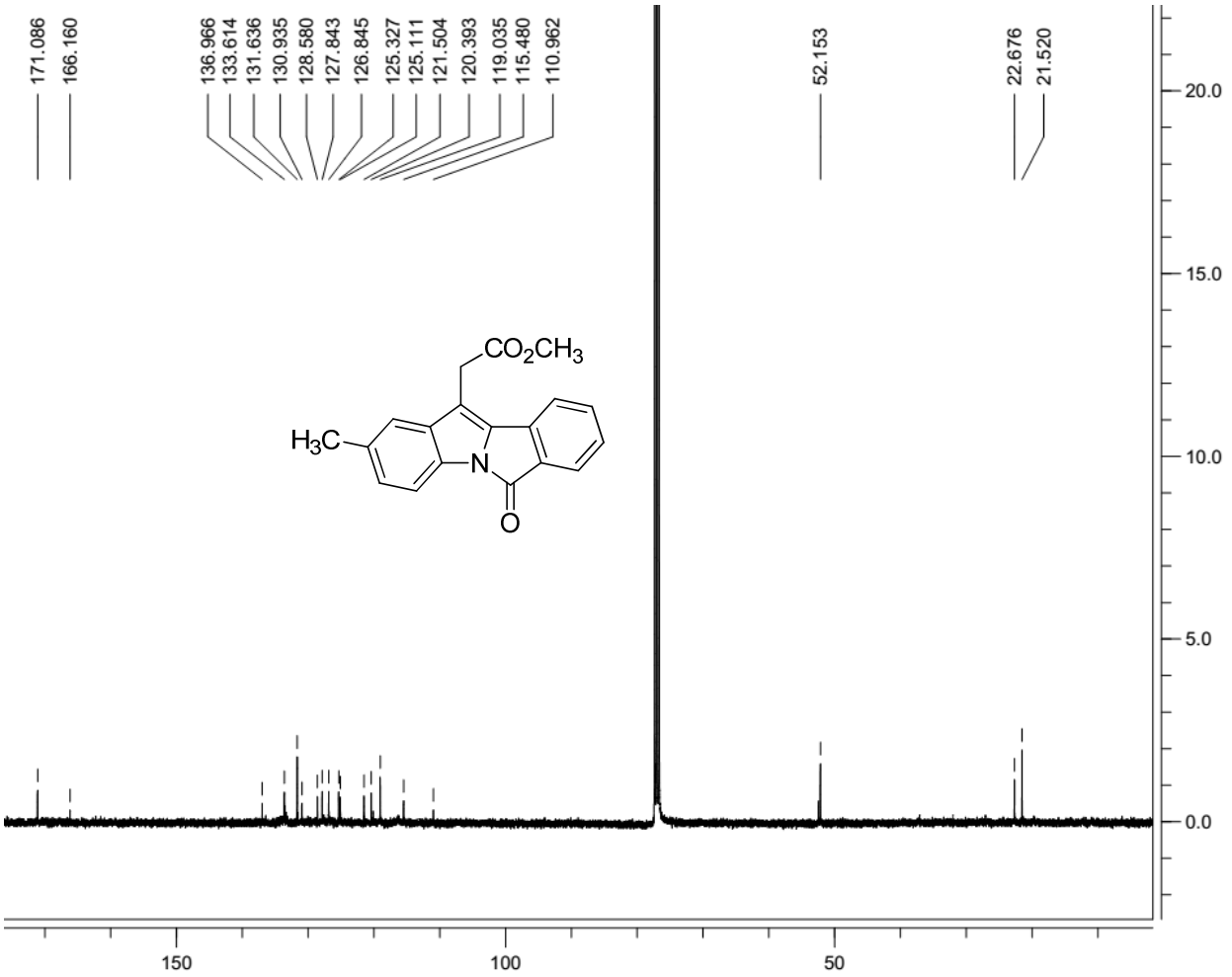

Fig. 76: ^{13}C NMR spectra of compound **2o** ($CDCl_3$, 100 MHz)

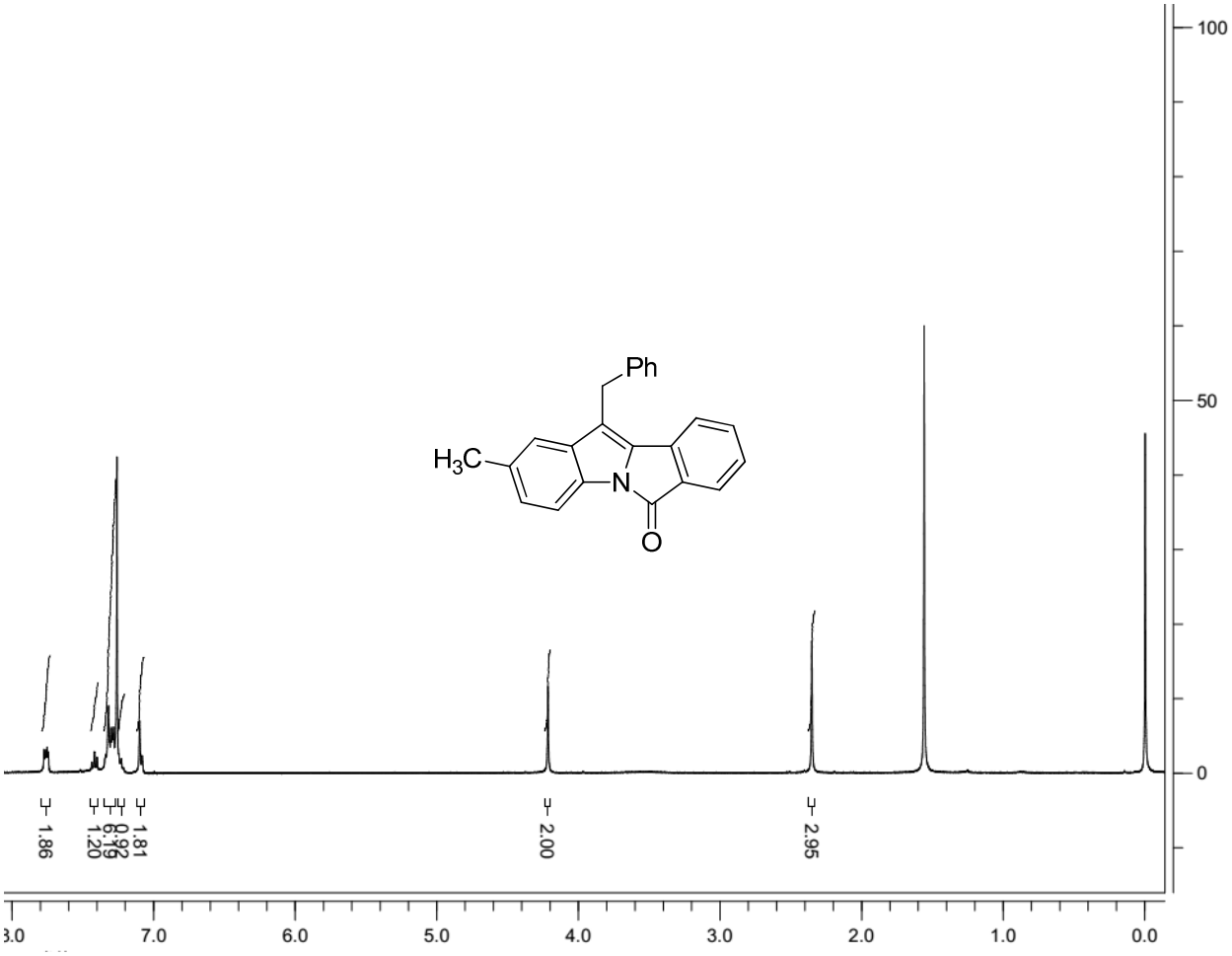

Fig. 77: ^{1}H NMR spectra of compound **2p** ($CDCl_3$, 400 MHz)

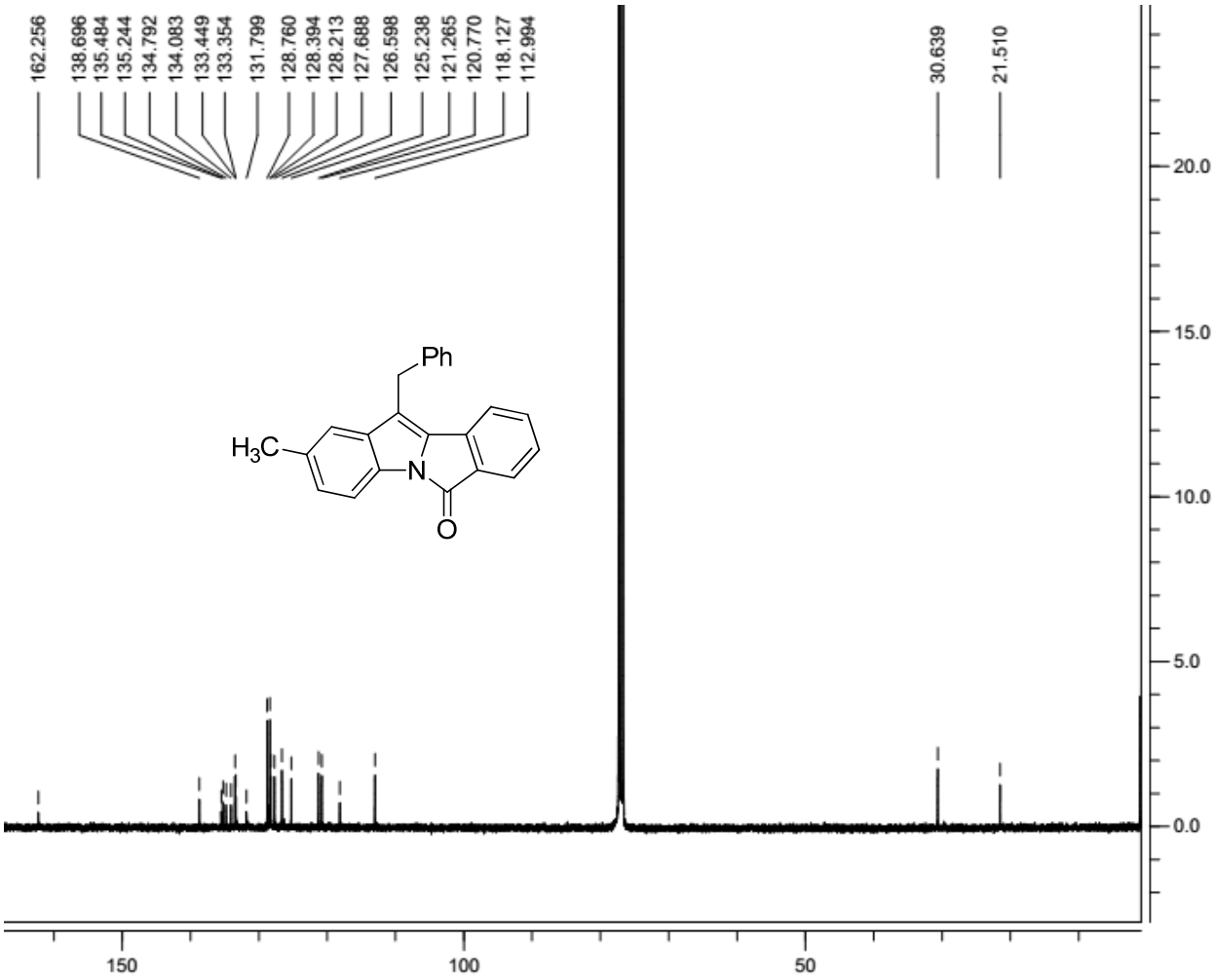

Fig. 78: ^{13}C NMR spectra of compound **2p** ($CDCl_3$, 100 MHz)

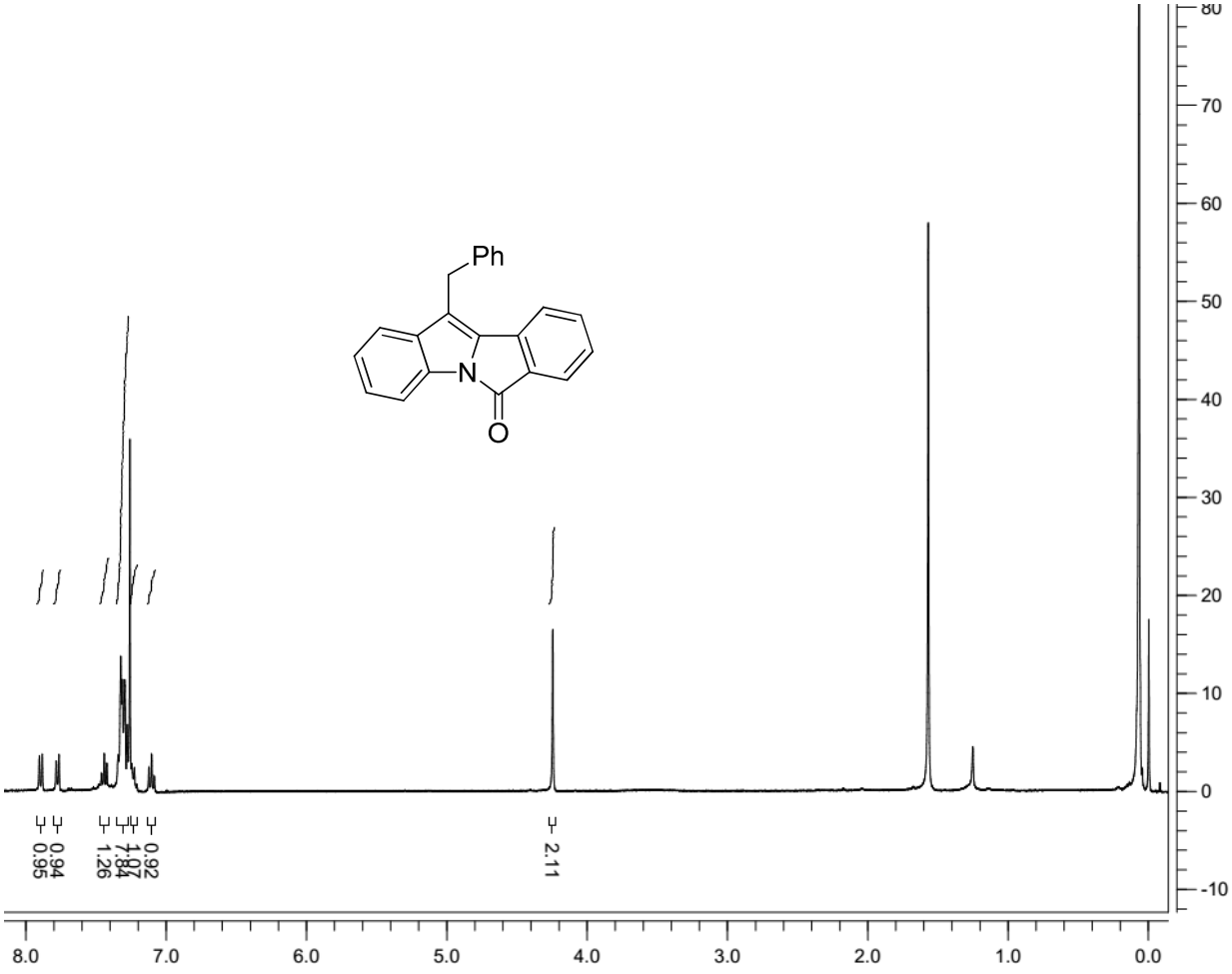

Fig. 79: ^{1}H NMR spectra of compound **2q** ($CDCl_3$, 400 MHz)

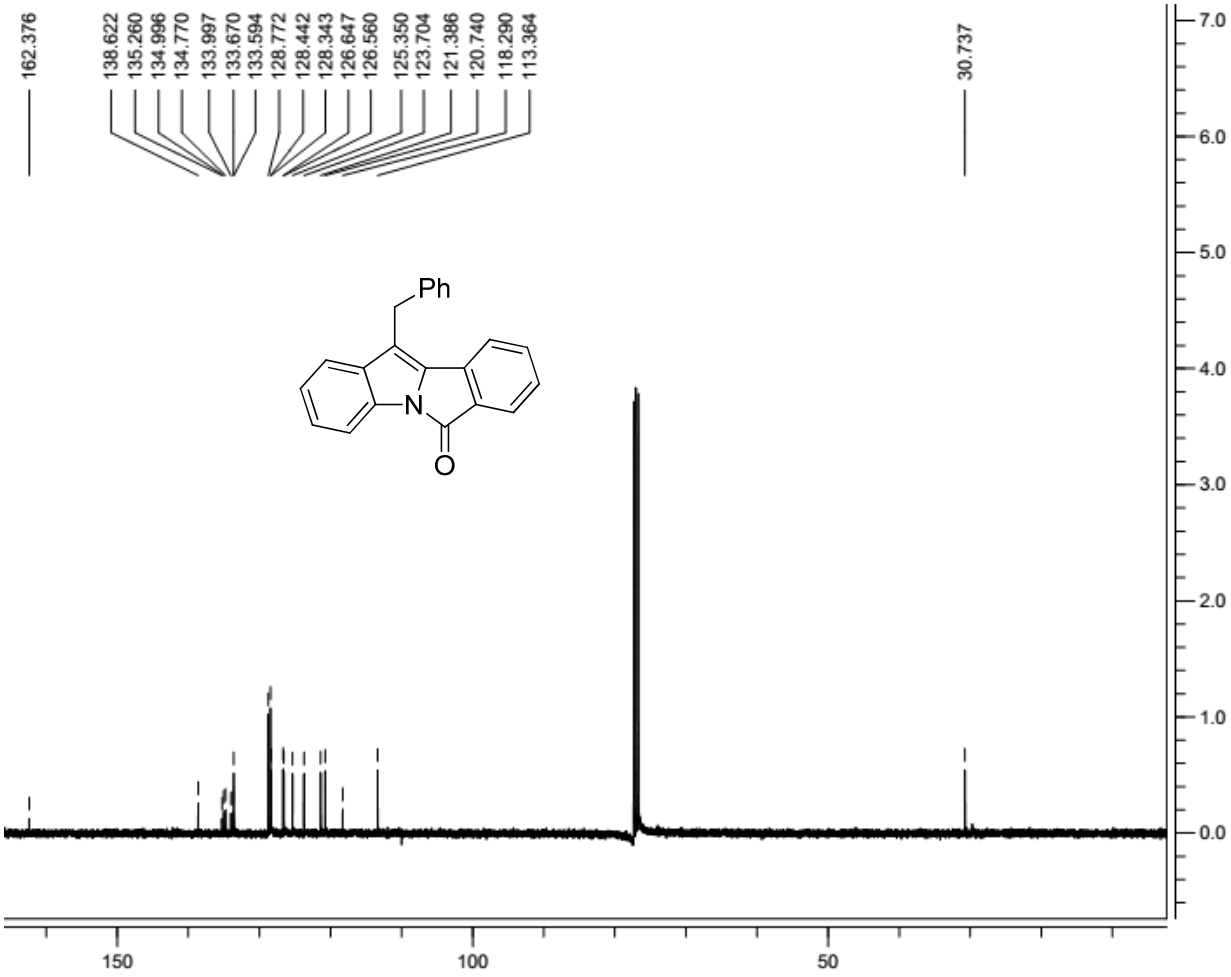

Fig. 80: ^{13}C NMR spectra of compound **2q** ($CDCl_3$, 100 MHz)

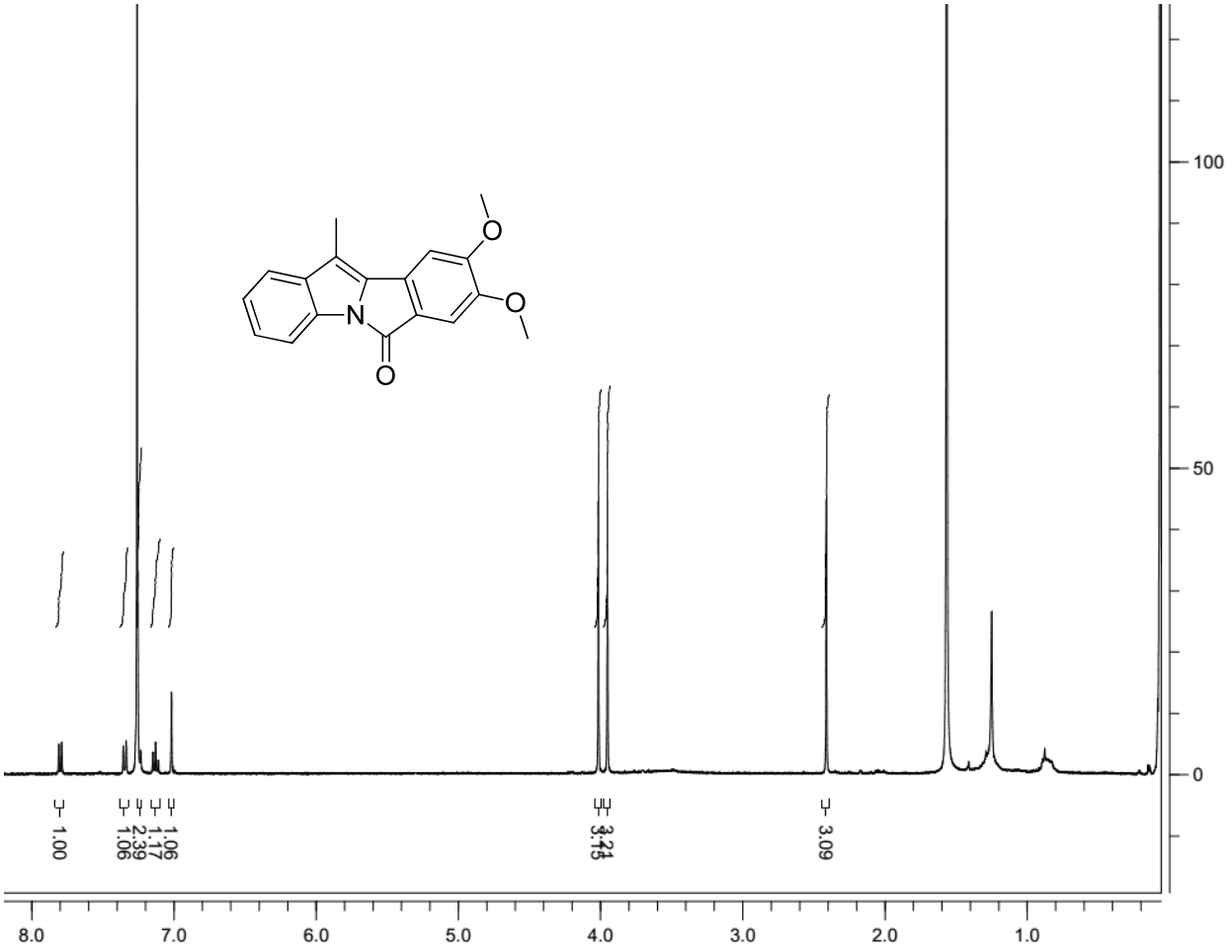

Fig. 81: ^{1}H NMR spectra of compound **2r** ($CDCl_3$, 400 MHz)

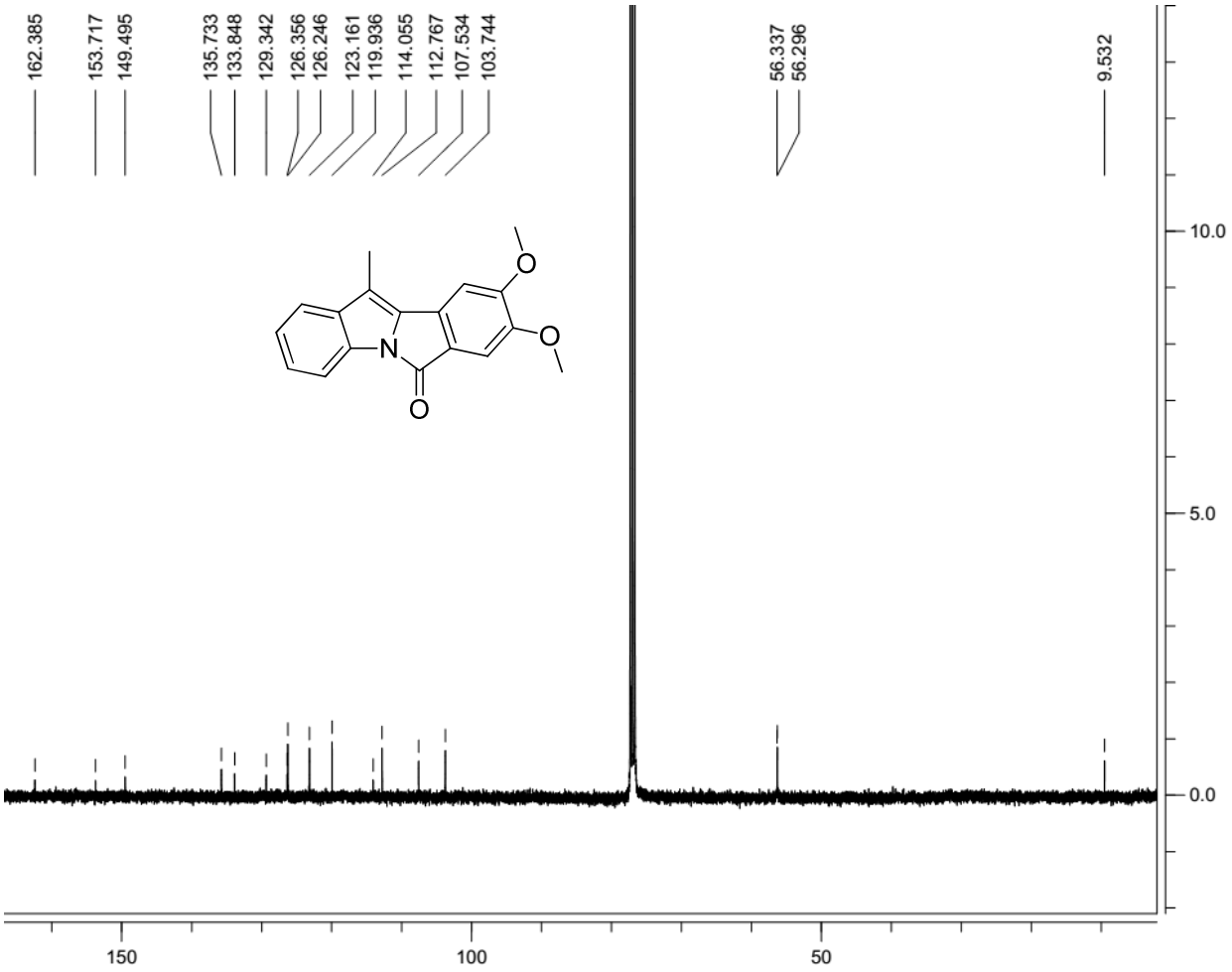

Fig. 82: ^{13}C NMR spectra of compound **2r** ($CDCl_3$, 100 MHz)

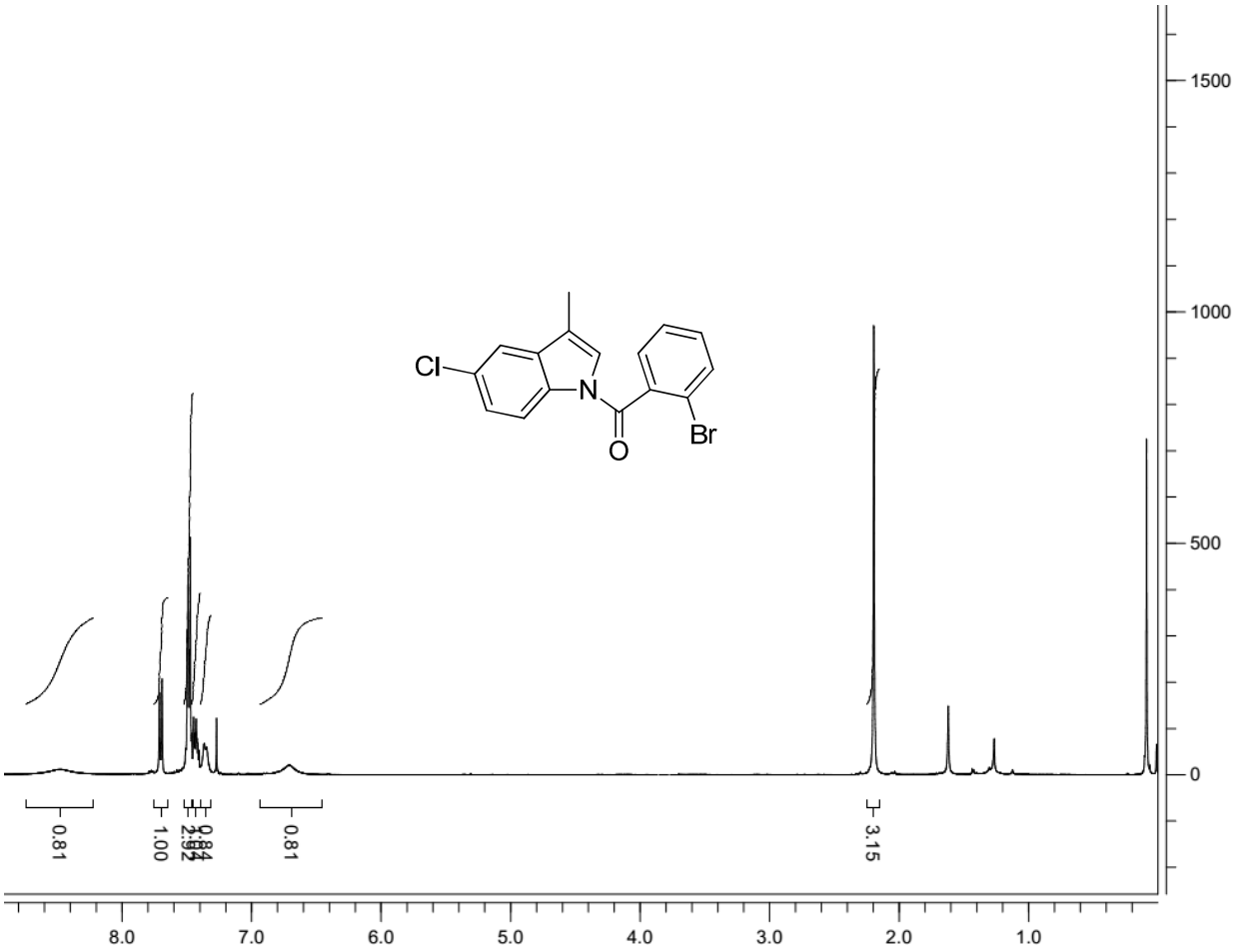

Fig. 83: ^{1}H NMR spectra of compound **3** ($CDCl_3$, 400 MHz)