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

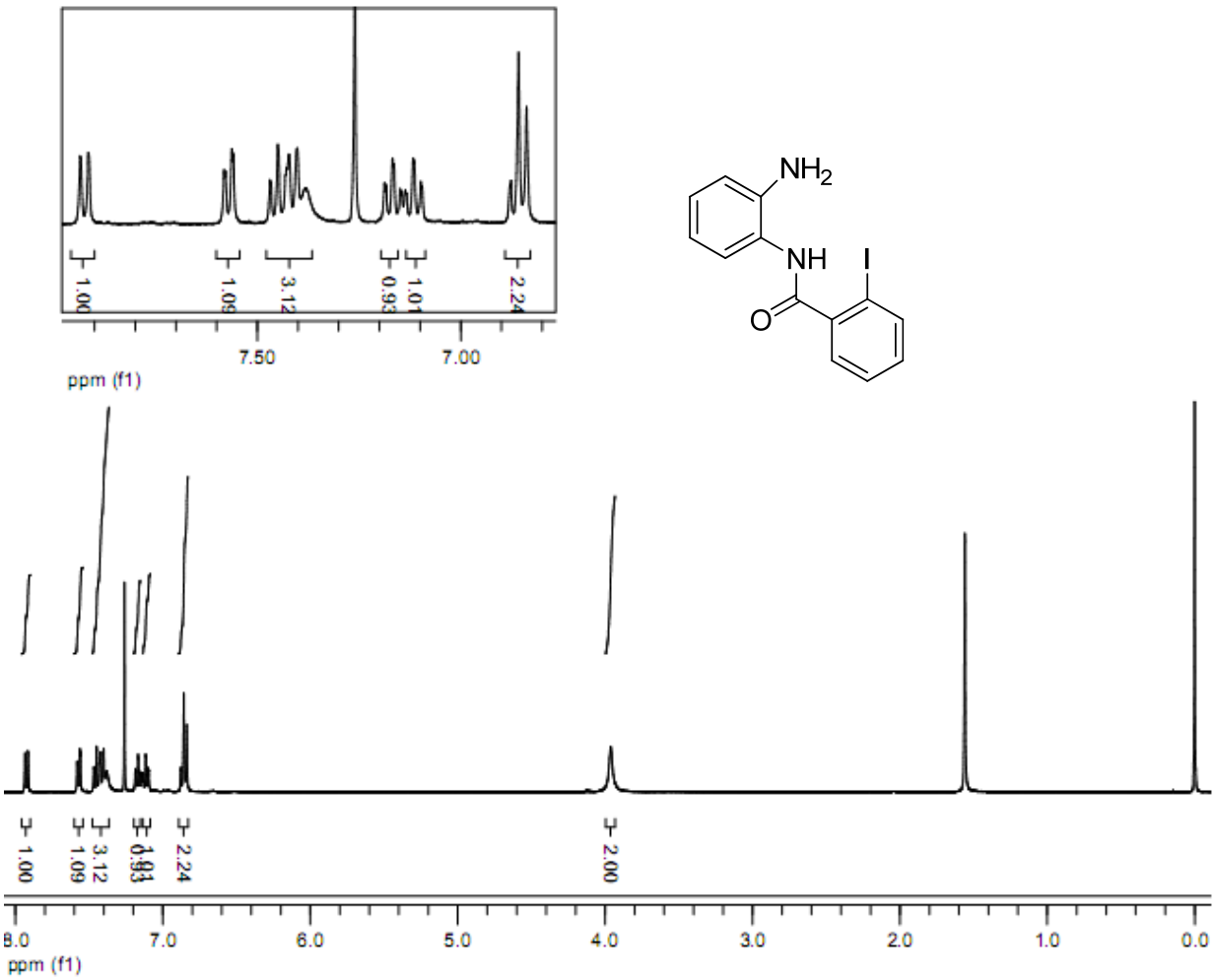

Fig. 1: ^{1}H NMR spectra of compound **1a** ($CDCl_3$, 400 MHz)

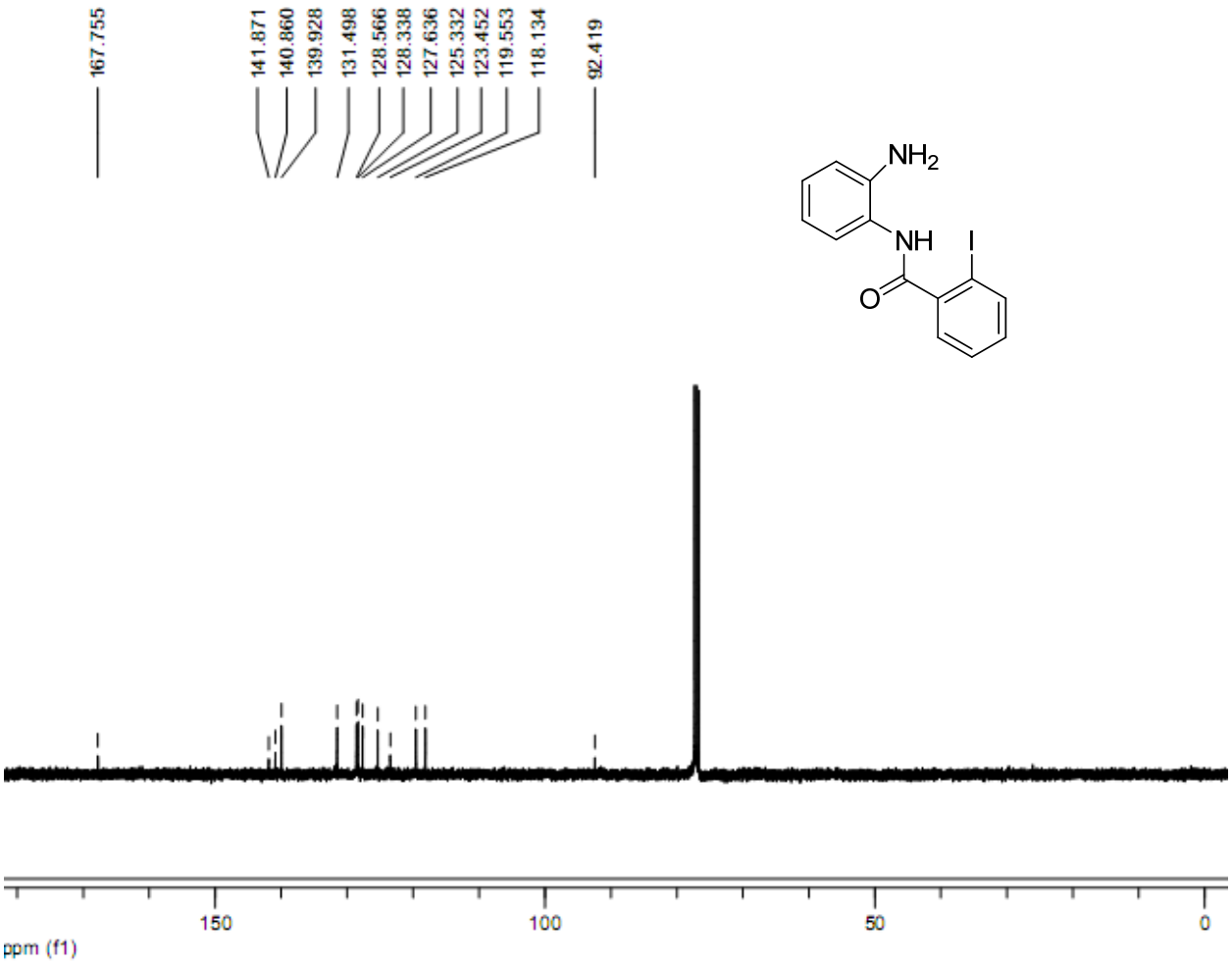

Fig. 2: ^{13}C NMR spectra of compound **1a** ($CDCl_3$, 100 MHz)

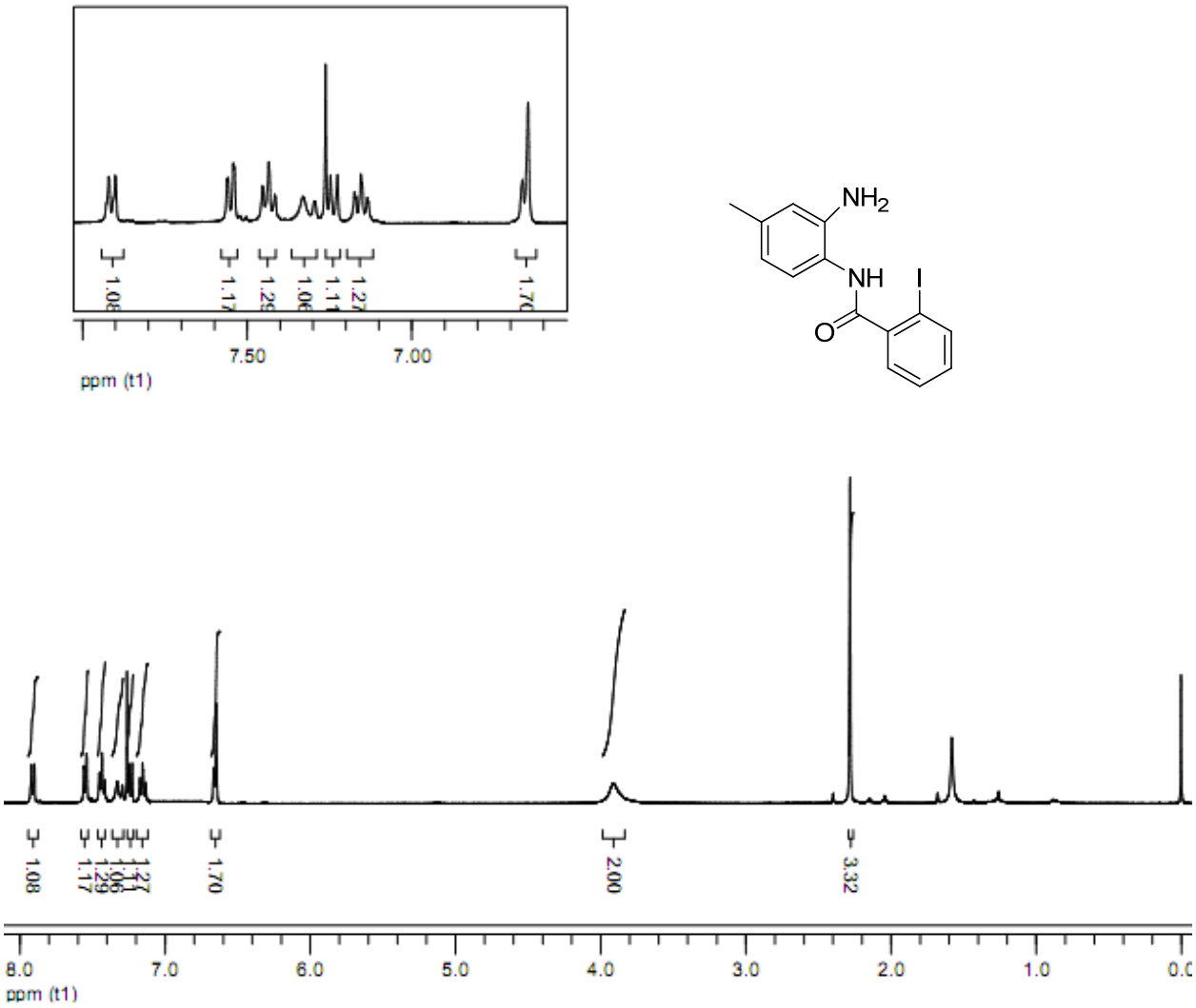

Fig. 3: ^{1}H NMR spectra of compound **1b** ($CDCl_3$, 400 MHz)

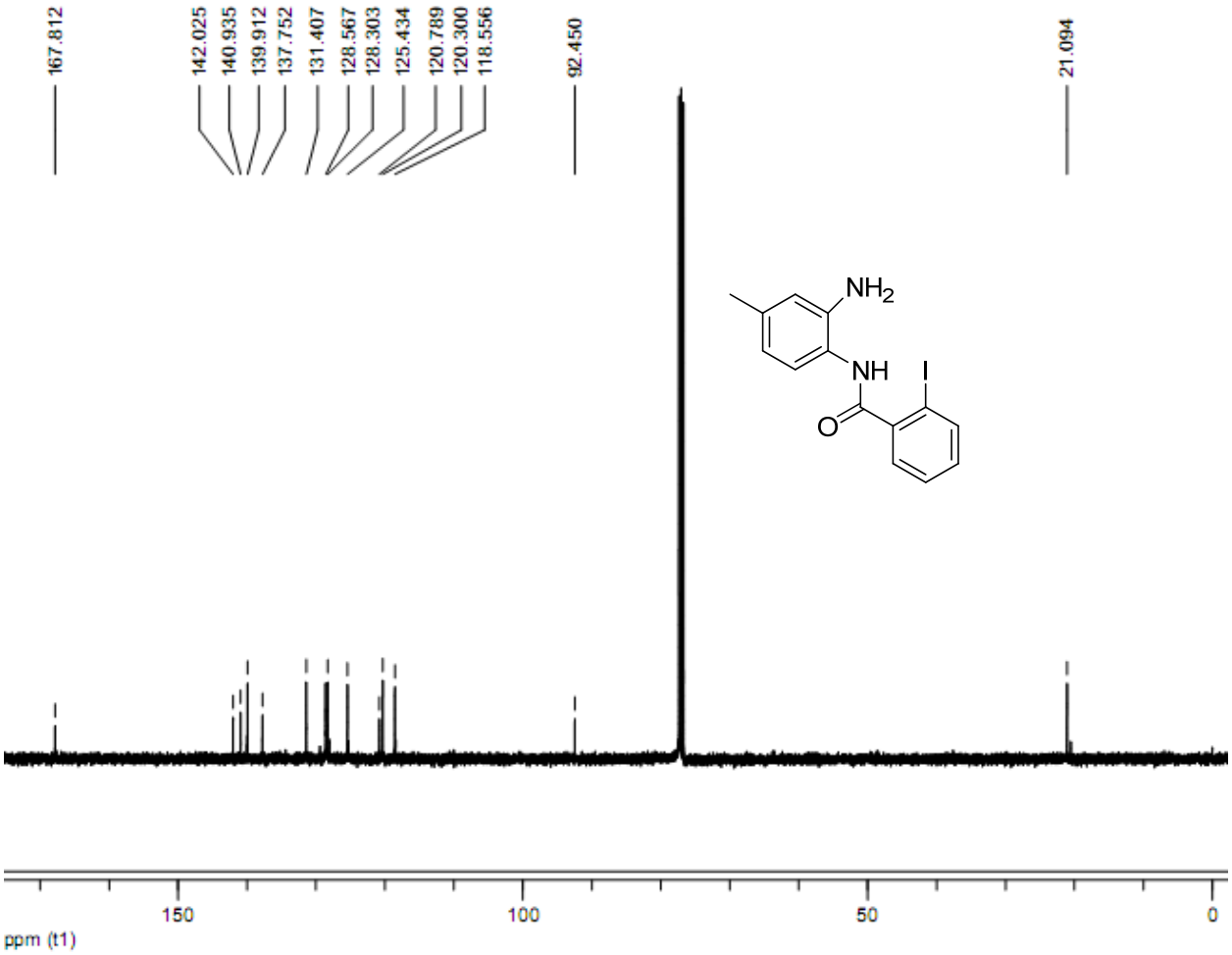

Fig.4: ^{13}C NMR spectra of compound **1b** ($CDCl_3$, 100 MHz)

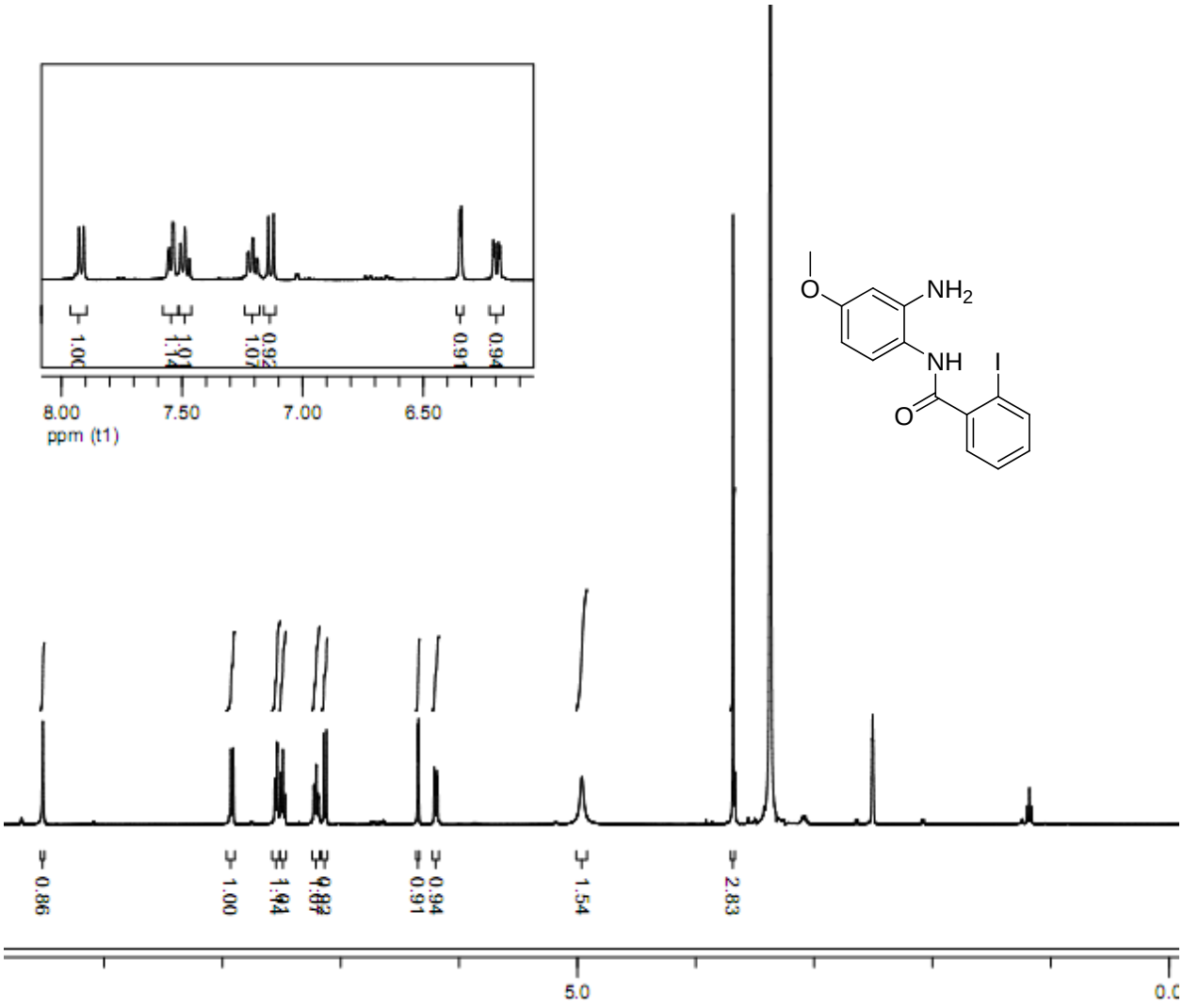

Fig. 5: ^{1}H NMR spectra of compound **1c** (DMSO-d_6, 400 MHz)

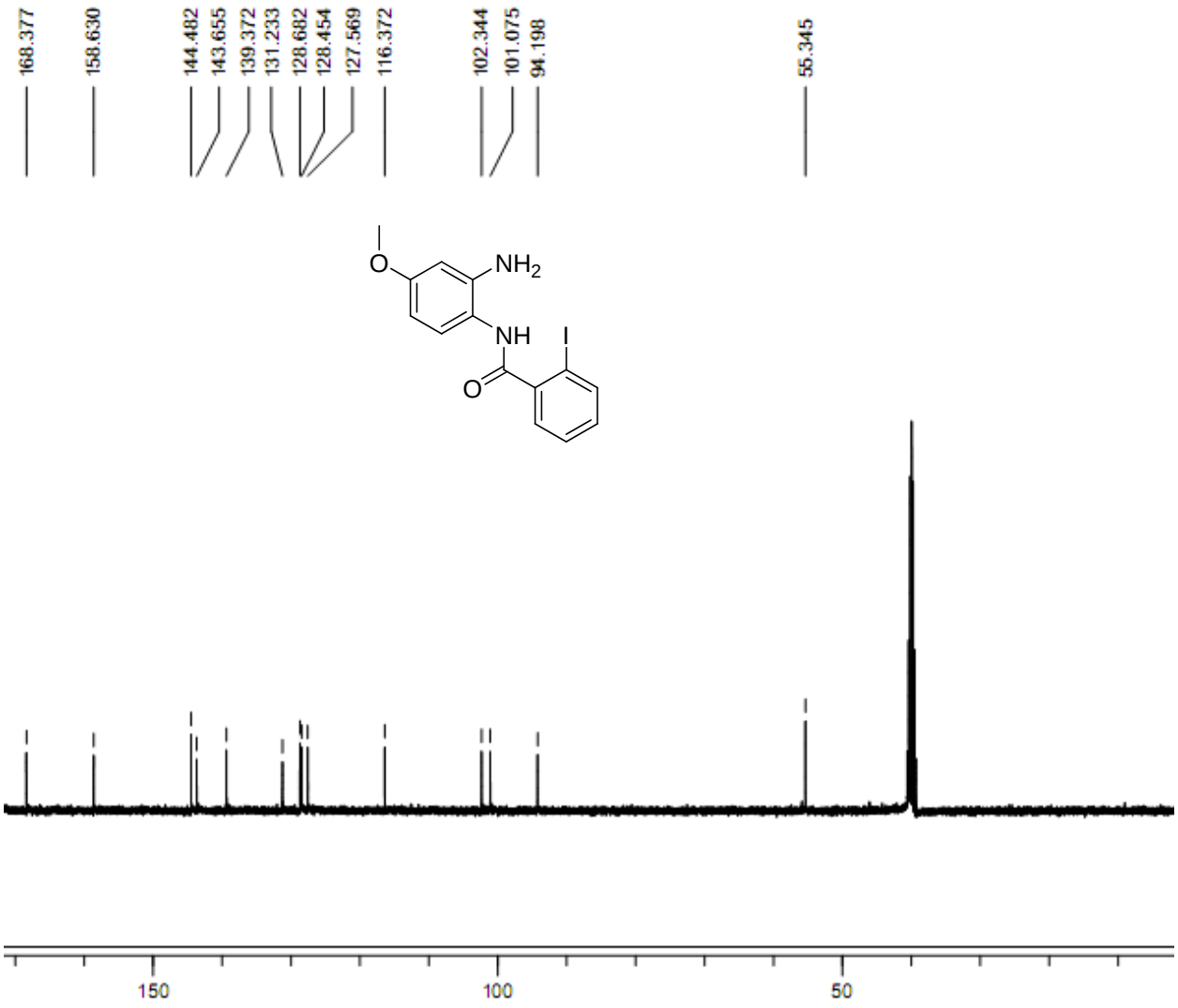

Fig.6: ^{13}C NMR spectra of compound **1c** (DMSO-d_6, 100 MHz)

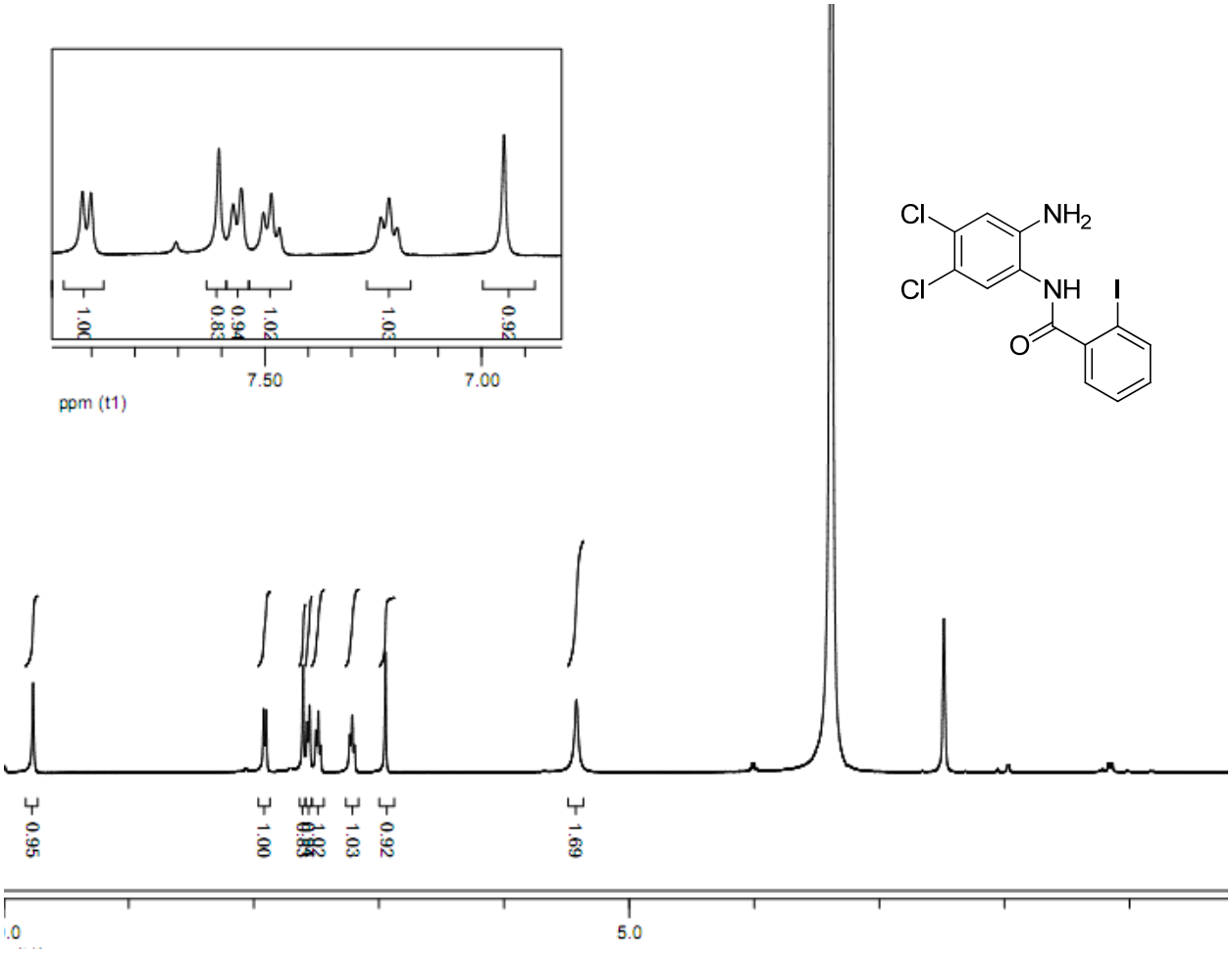

Fig. 7: ^{1}H NMR spectra of compound **1d** (DMSO-d_6, 400 MHz)

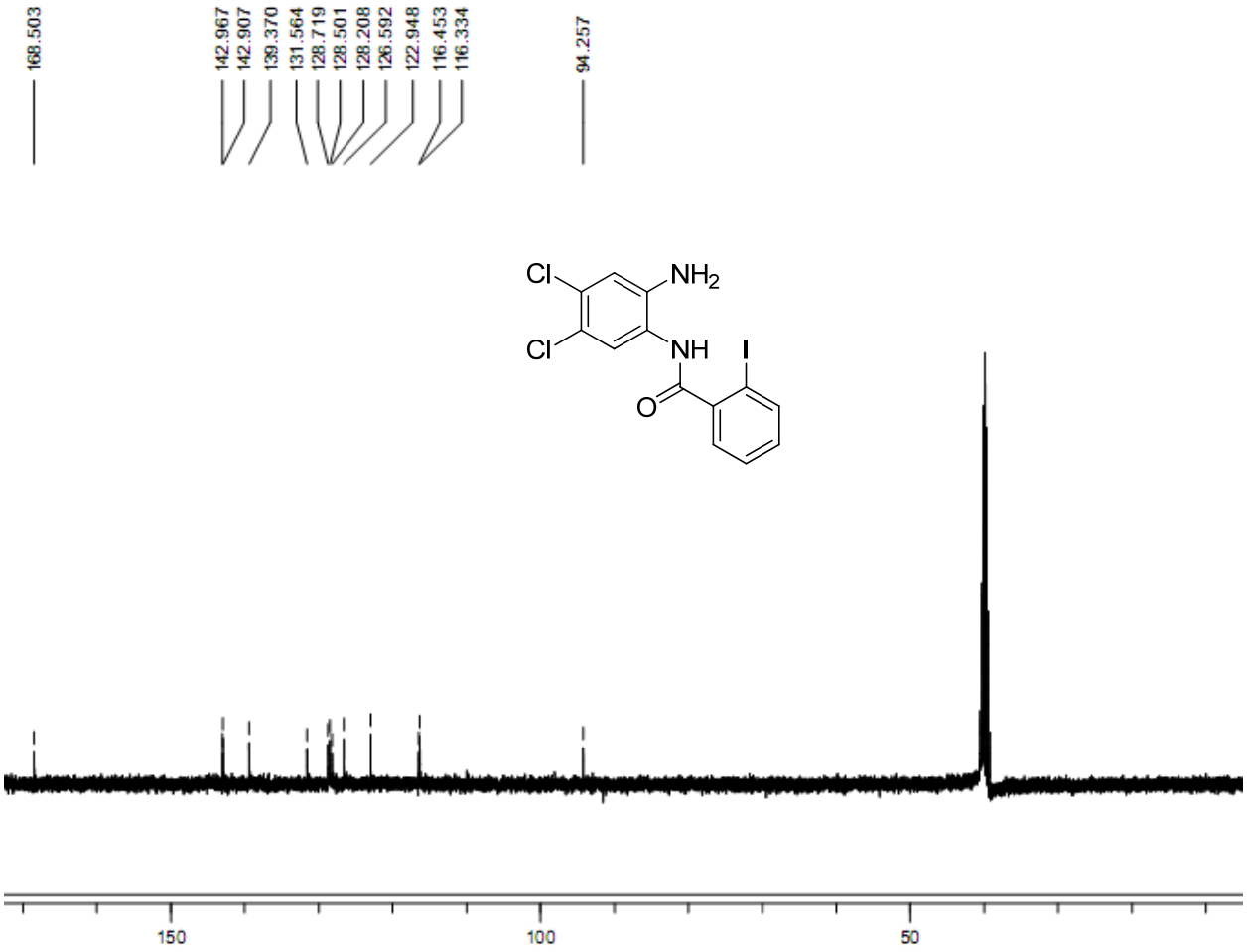

Fig.8: ^{13}C NMR spectra of compound **1d** (DMSO-d_6, 100 MHz)

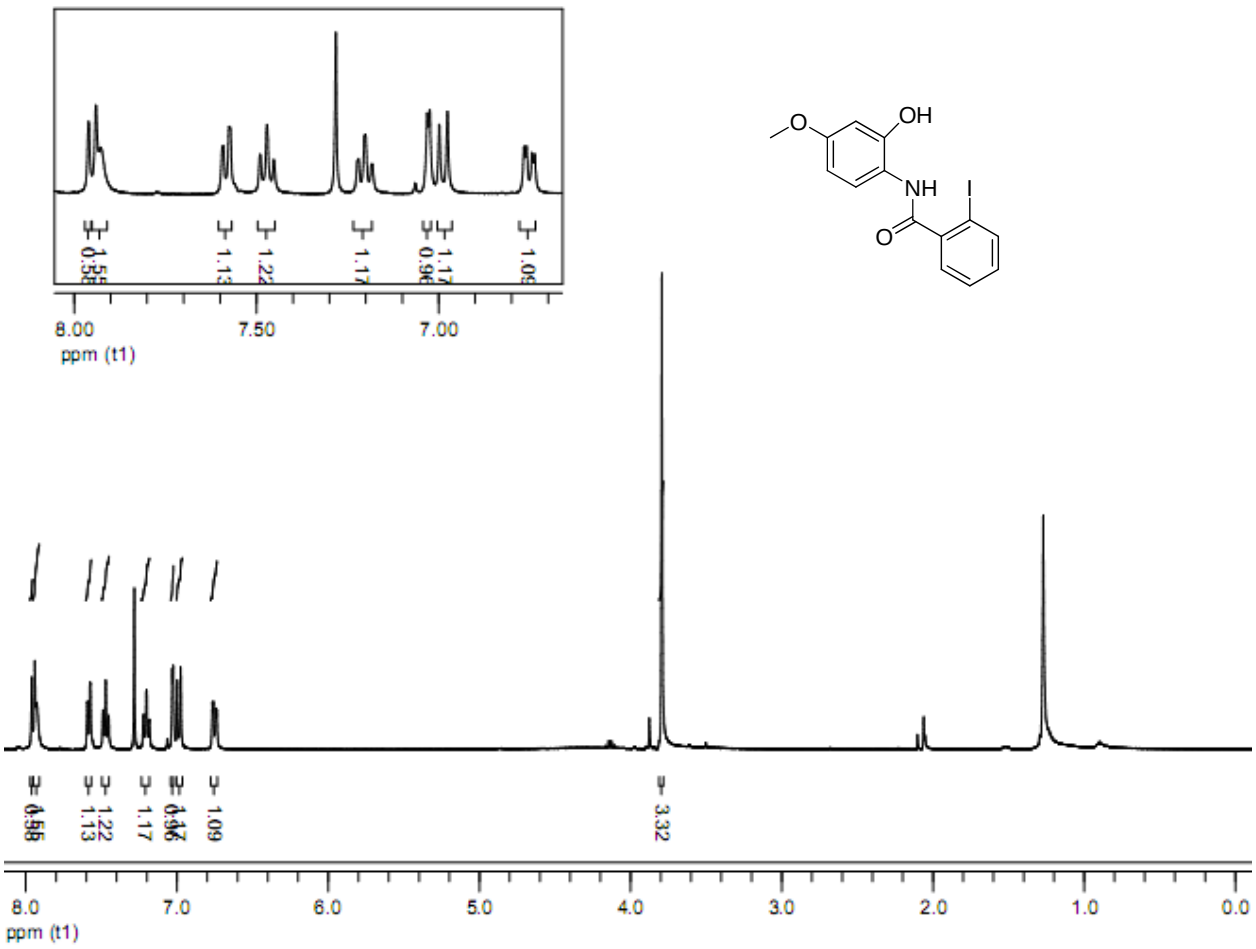

Fig. 9: ^{1}H NMR spectra of compound **1e** ($CDCl_3$, 400 MHz)

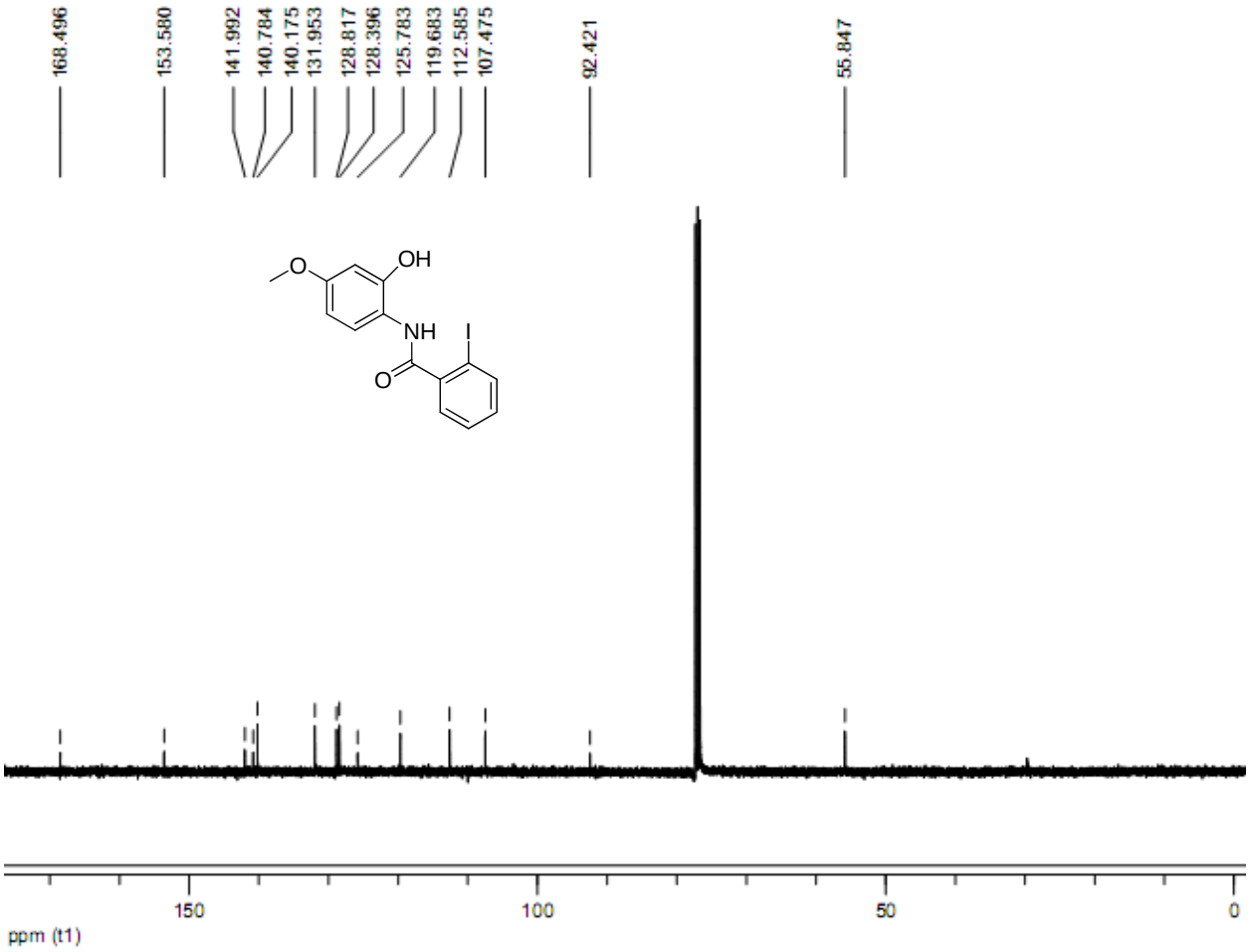

Fig.10: ^{13}C NMR spectra of compound **1e** ($CDCl_3$, 100 MHz)

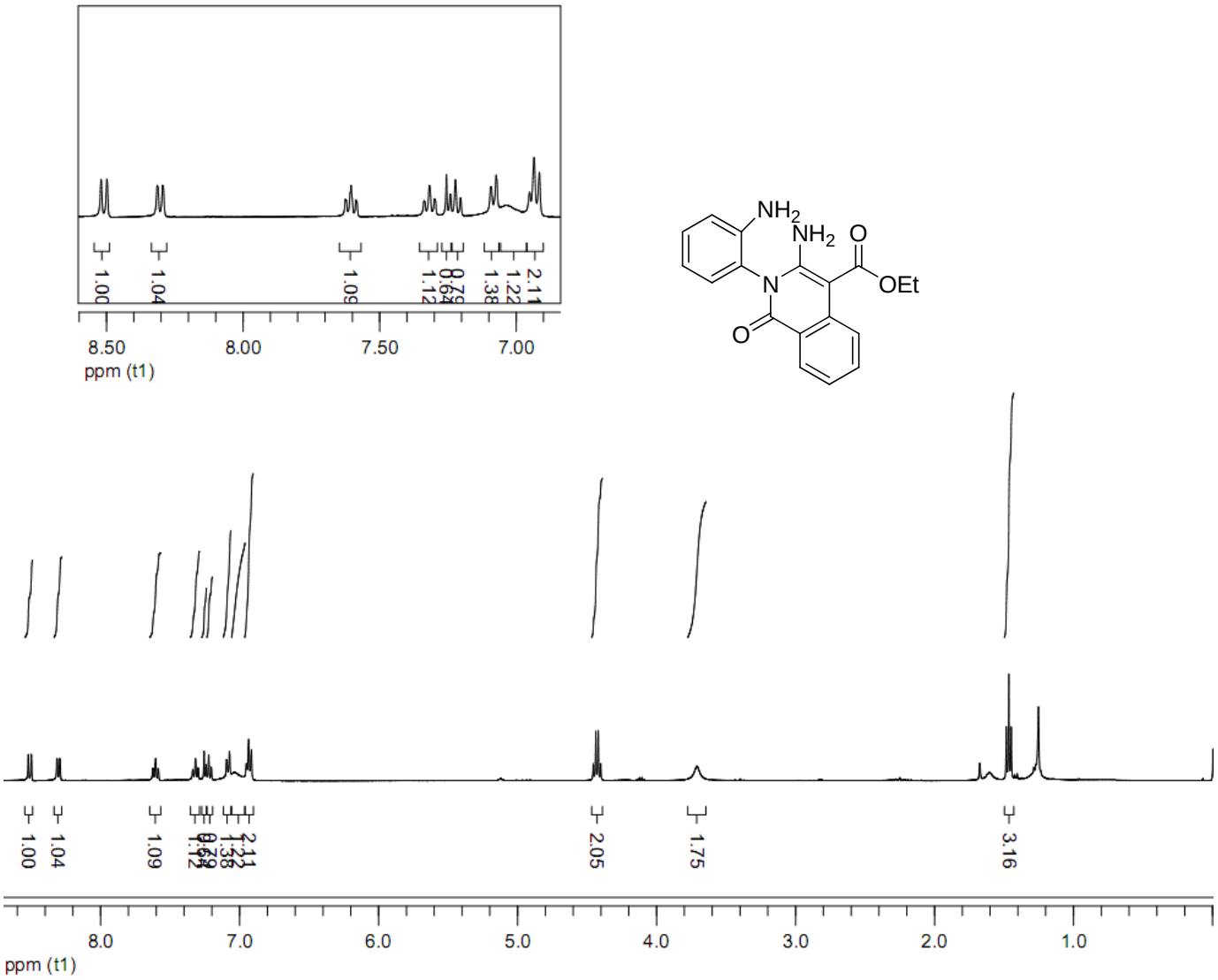

Fig. 11: ^{1}H NMR spectra of compound **3a** ($CDCl_3$, 400 MHz)

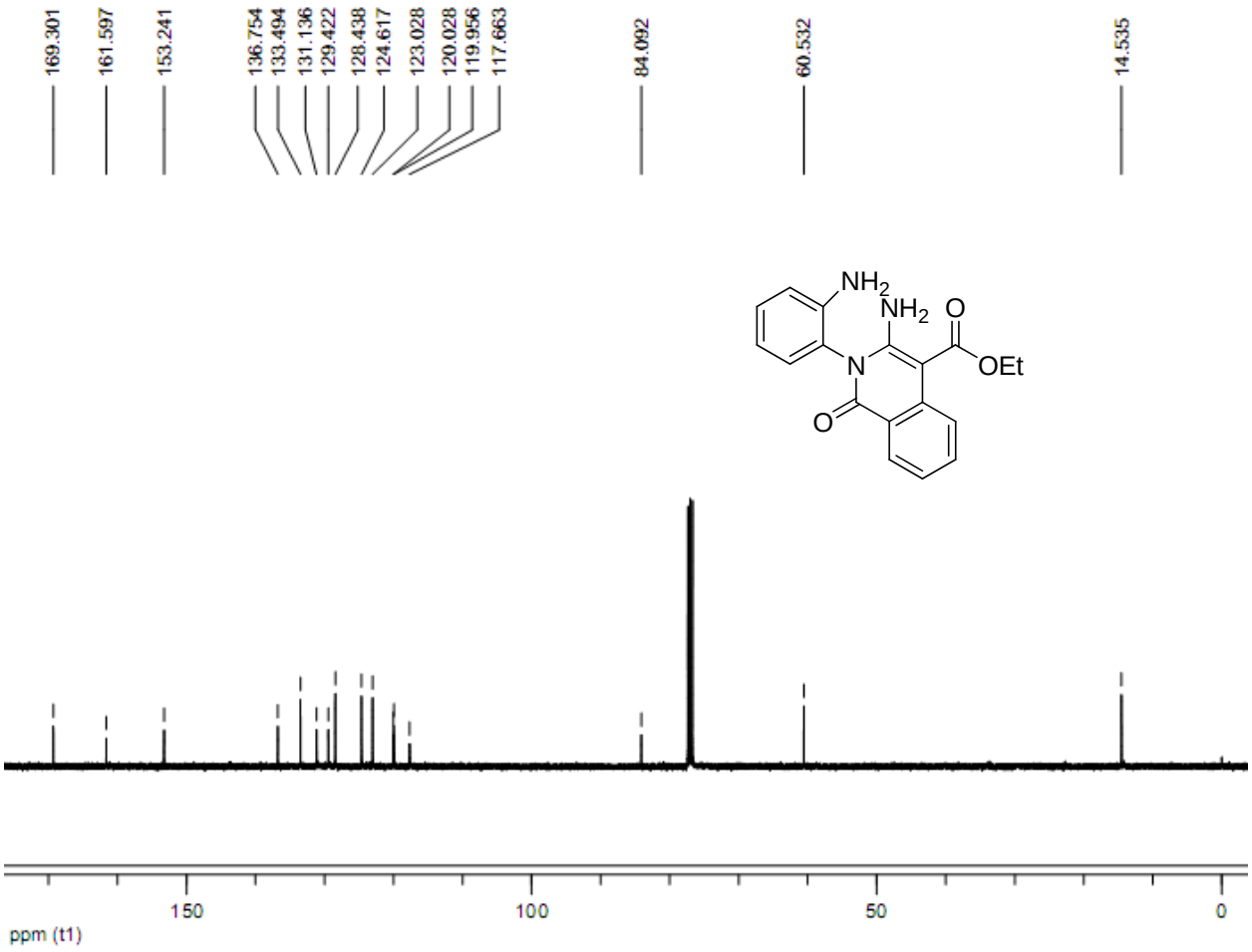

Fig. 12: ^{13}C NMR spectra of compound **3a** ($CDCl_3$, 100 MHz)

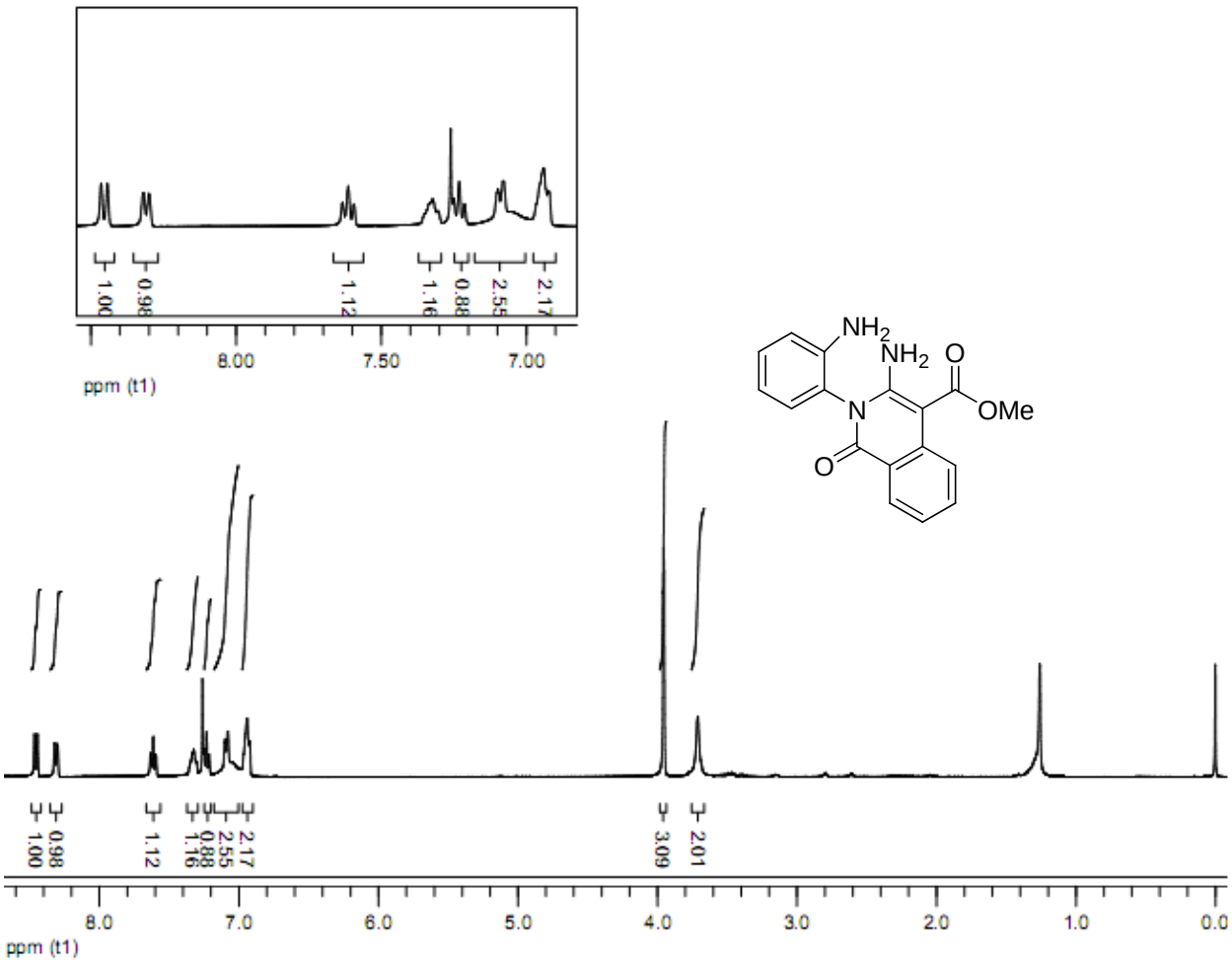

Fig. 13: ^{1}H NMR spectra of compound **3b** ($CDCl_3$, 400 MHz)

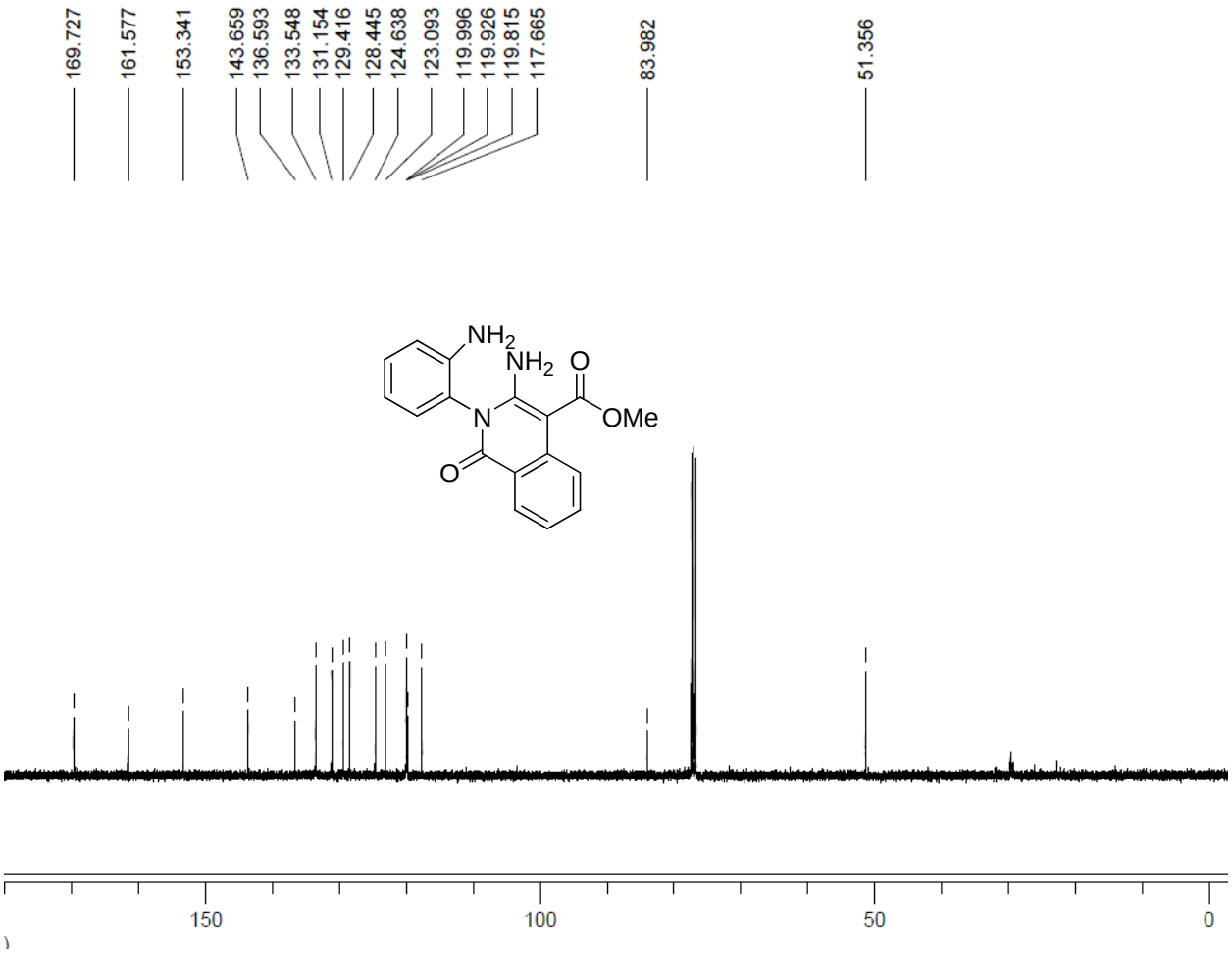

Fig. 14: ^{13}C NMR spectra of compound **3b** ($CDCl_3$, 100 MHz)

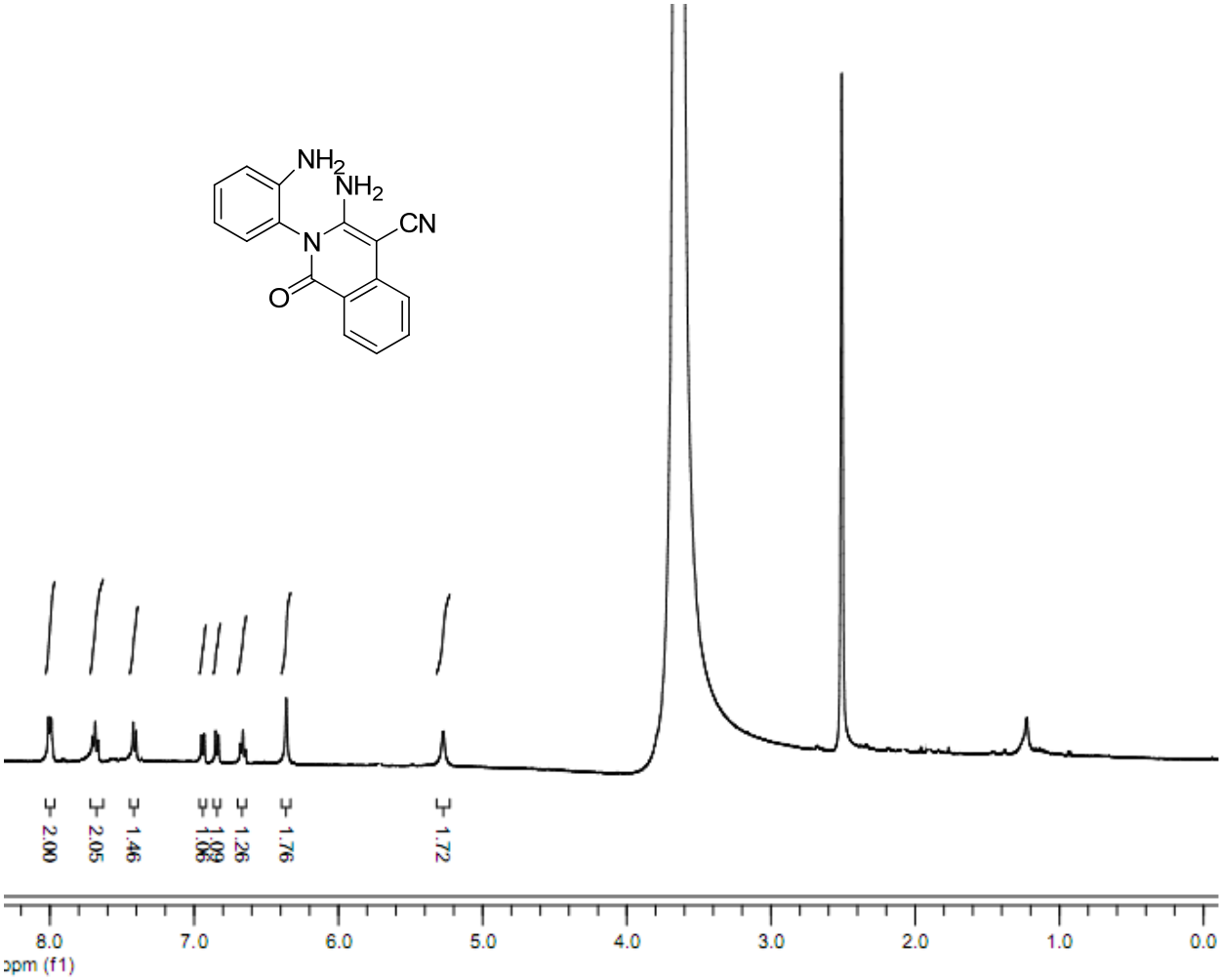

Fig. 15: ^{1}H NMR spectra of compound **3c** (DMSO-d_6, 400 MHz)

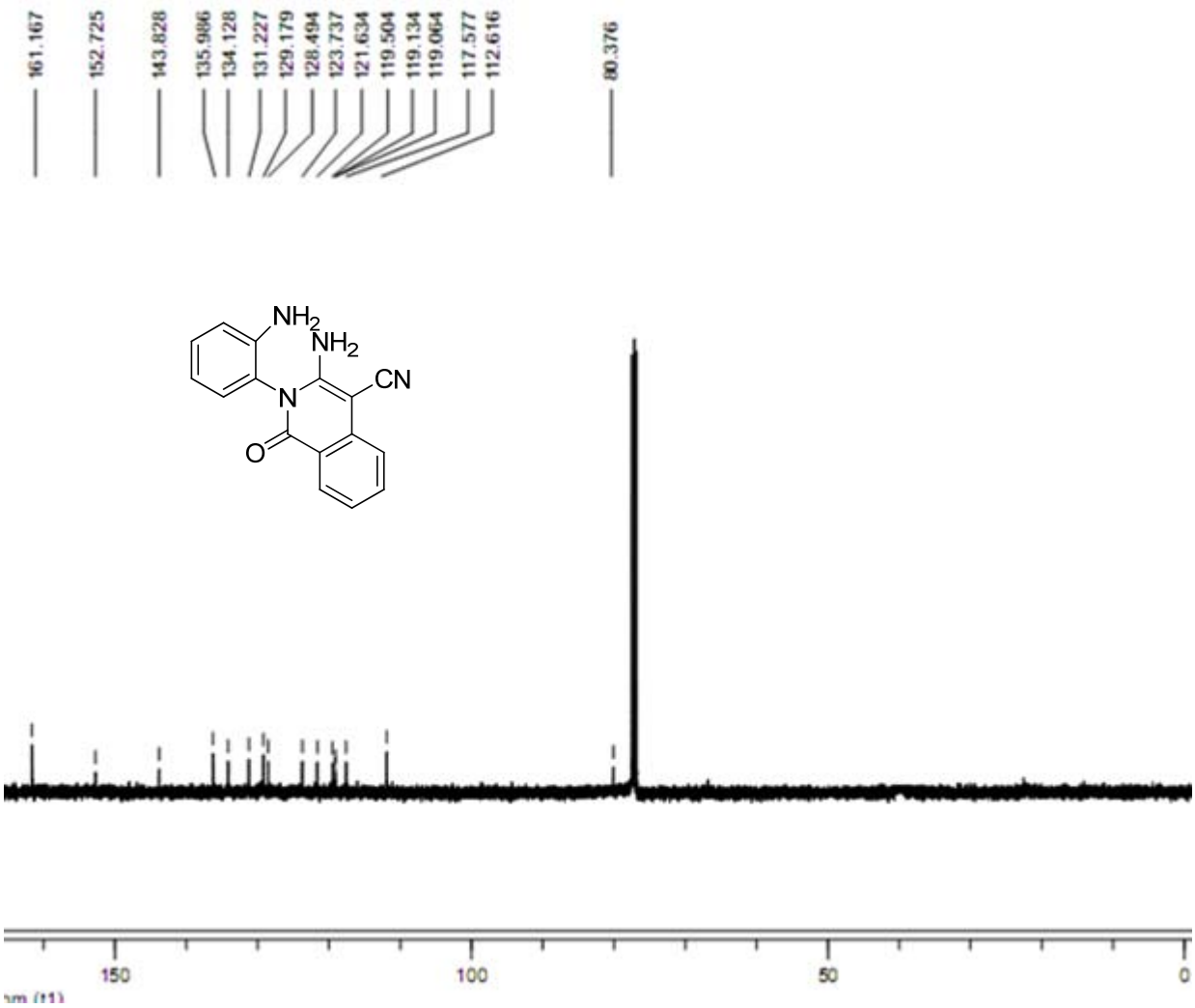

Fig. 16: ^{13}C NMR spectra of compound **3c** (DMSO-d_6, 100 MHz)

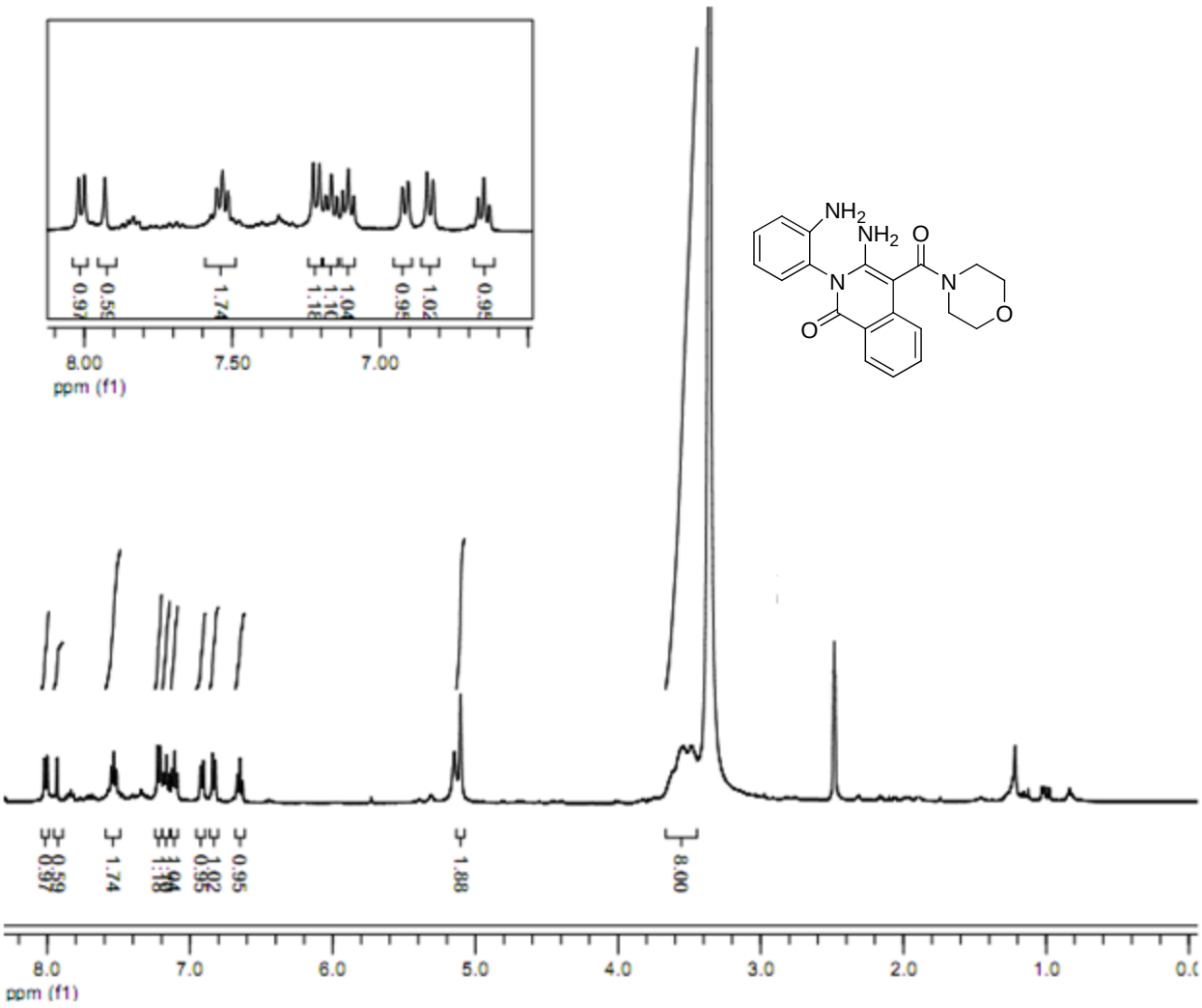

Fig. 17: ^{1}H NMR spectra of compound **3d** (DMSO-d_6, 400 MHz)

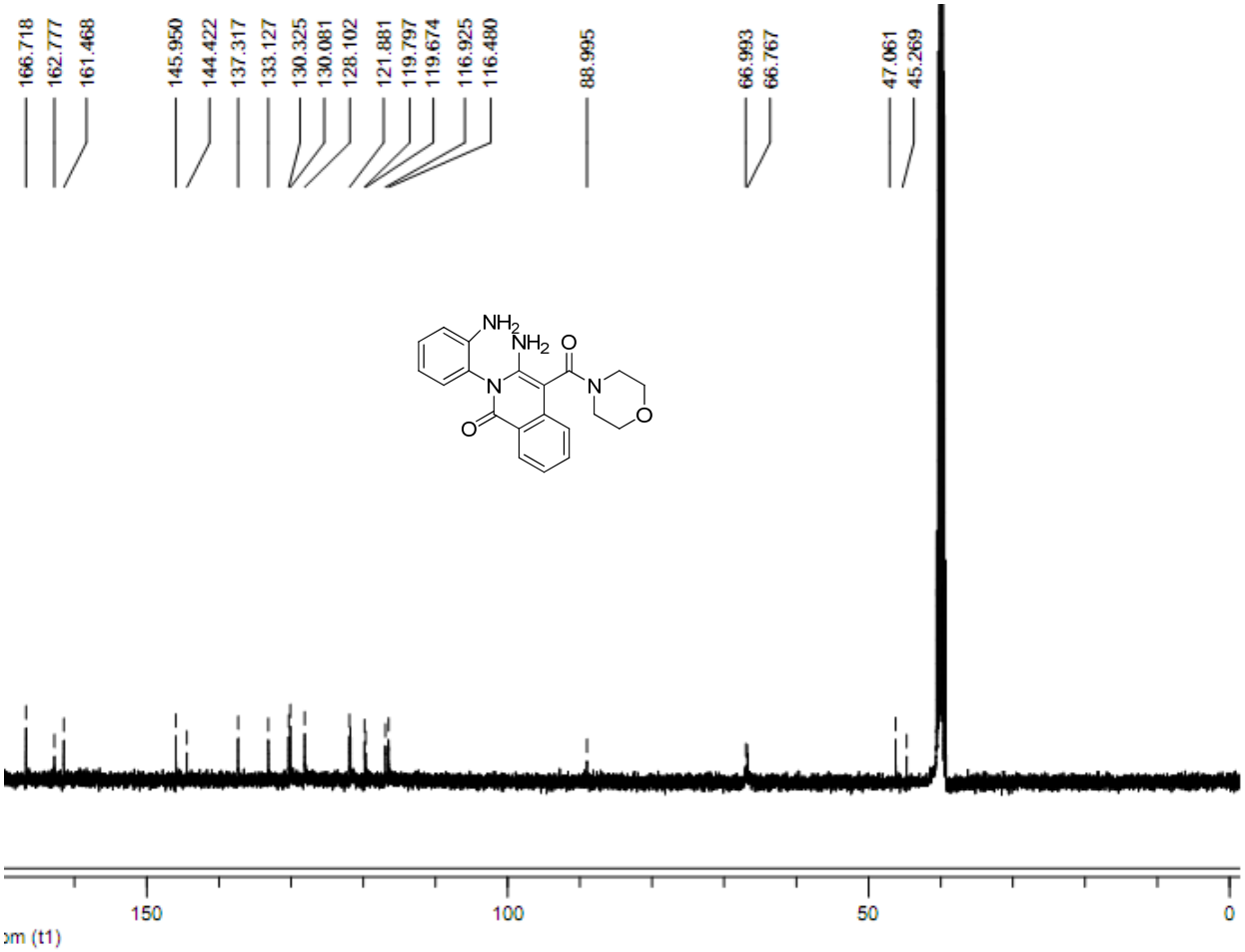

Fig. 18: ^{13}C NMR spectra of compound **3d** (DMSO-d_6, 100 MHz)

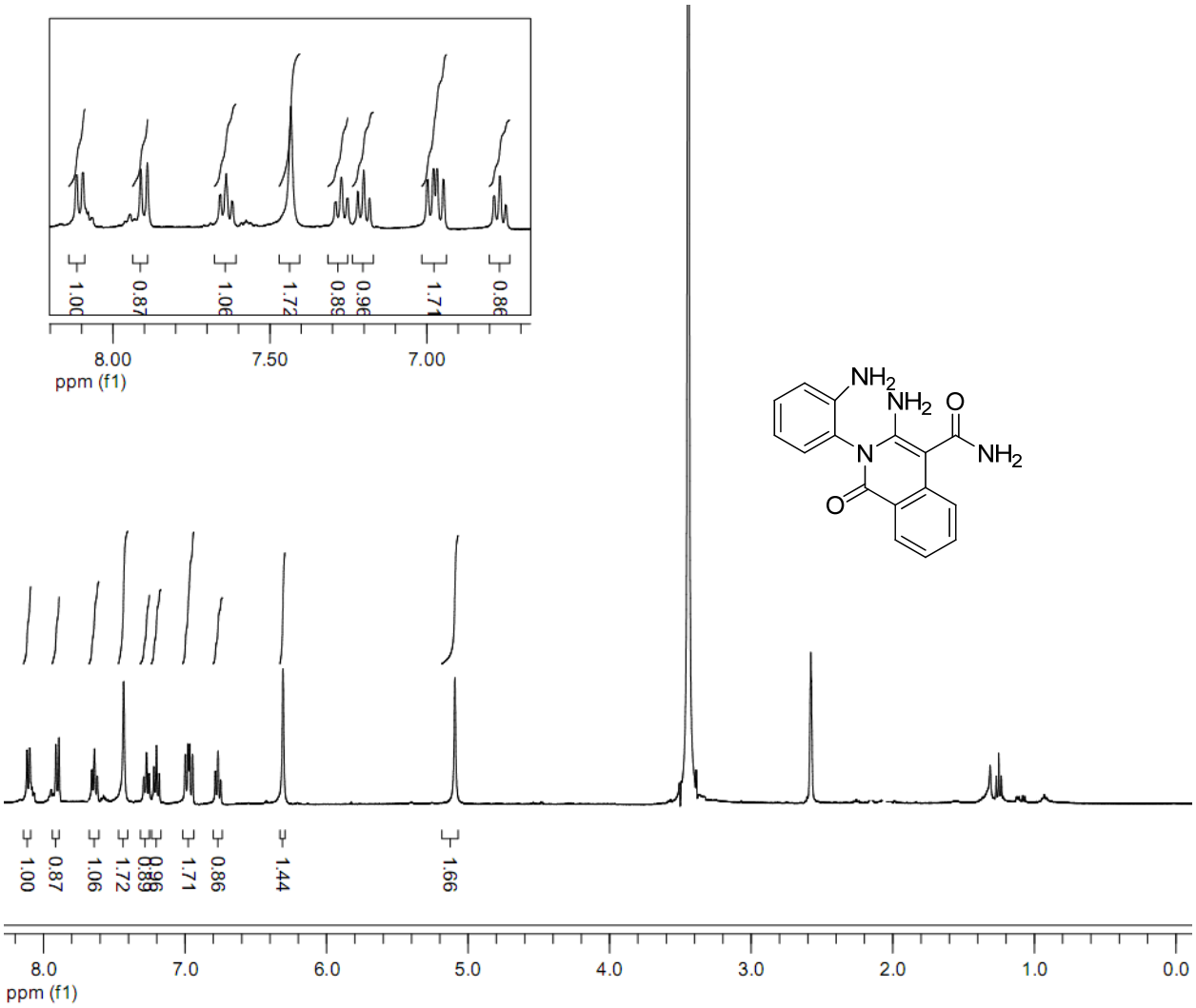

Fig. 19: ^{1}H NMR spectra of compound **3e** (DMSO-d_6, 400 MHz)

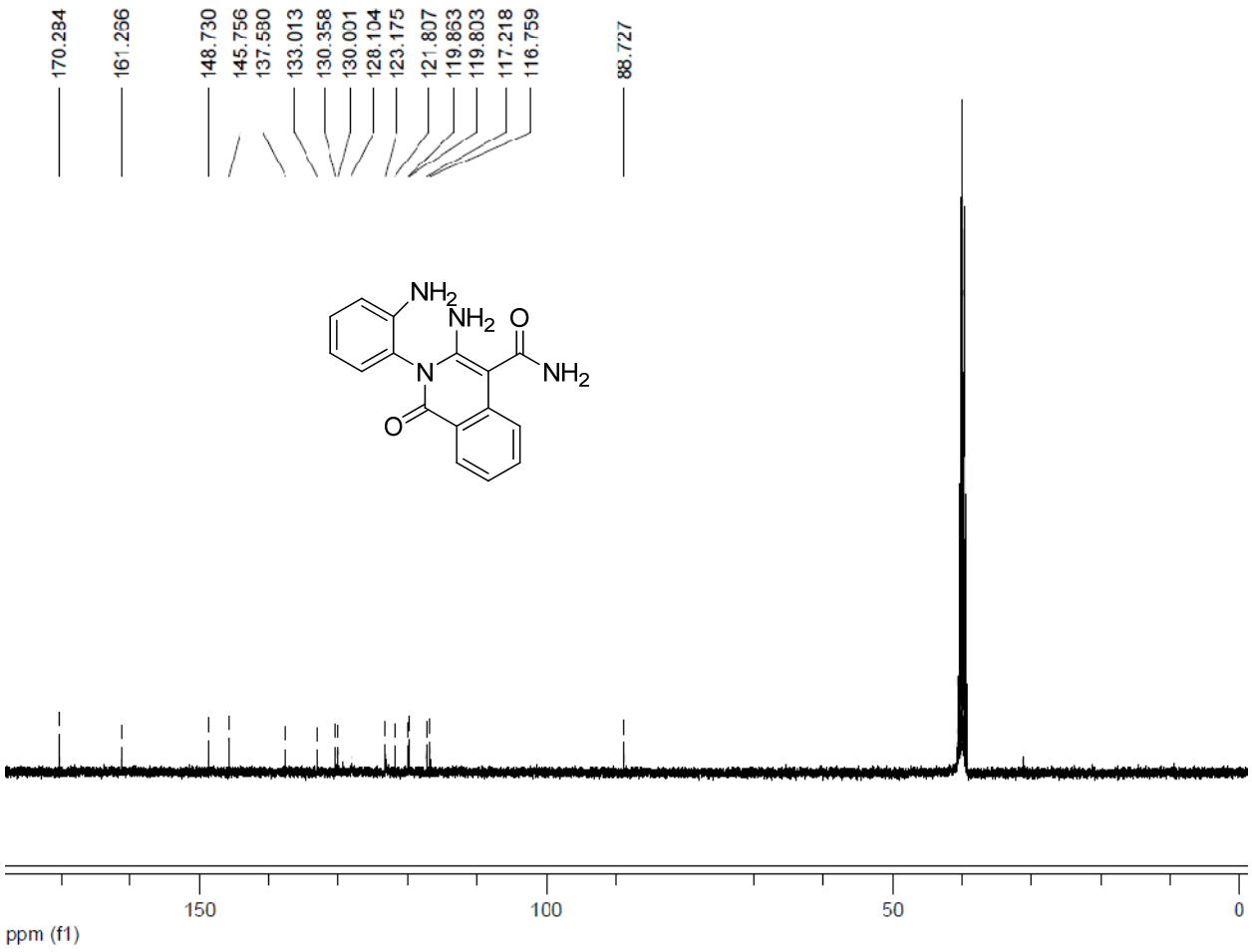

Fig. 20: ^{13}C NMR spectra of compound **3e** (DMSO-d_6, 100 MHz)

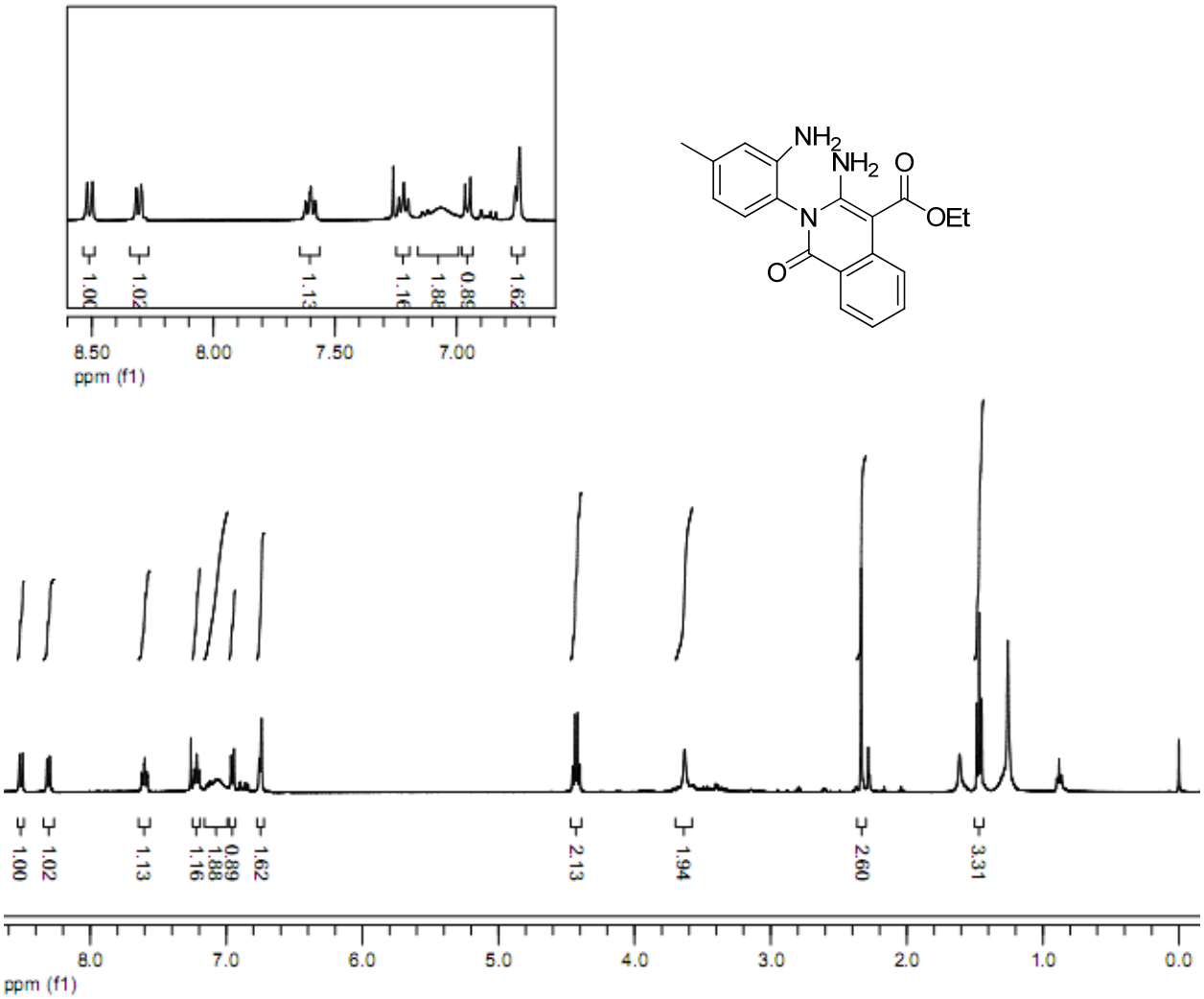

Fig. 21: ^{1}H NMR spectra of compound **3f** ($CDCl_3$, 400 MHz)

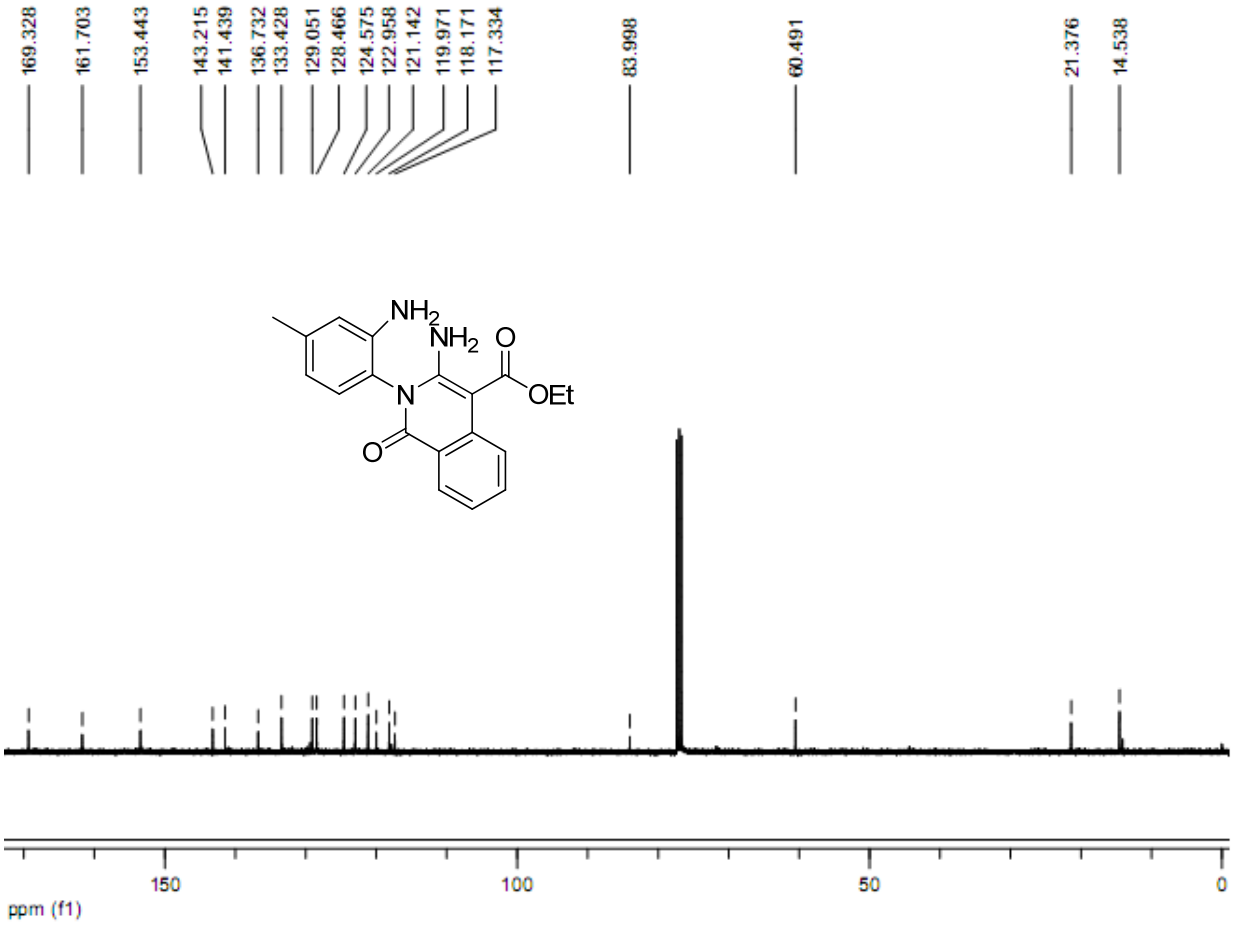

Fig. 22: ^{13}C NMR spectra of compound **3f** ($CDCl_3$, 100 MHz)

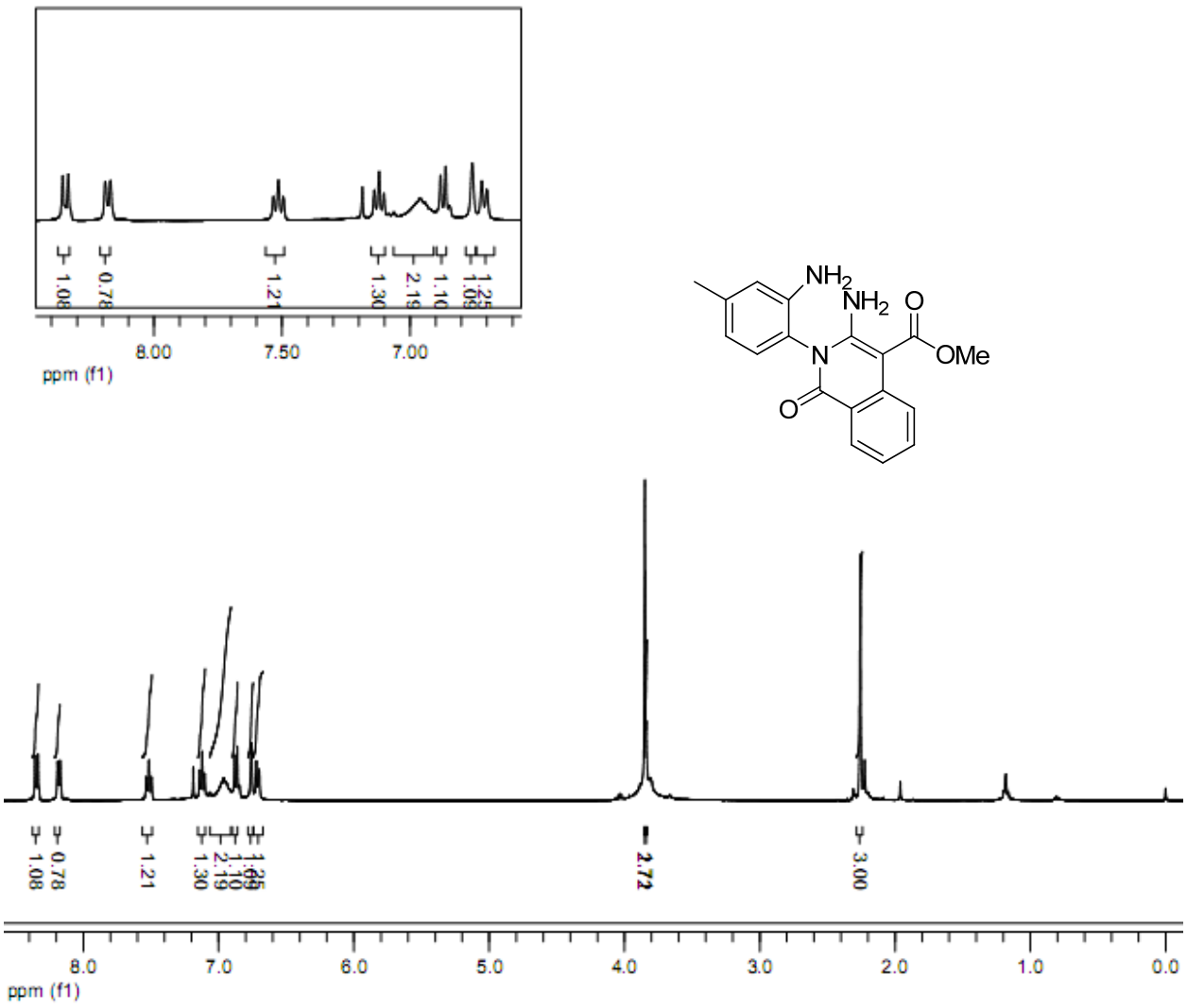

Fig. 23: ^{1}H NMR spectra of compound **3g** ($CDCl_3$, 400 MHz)

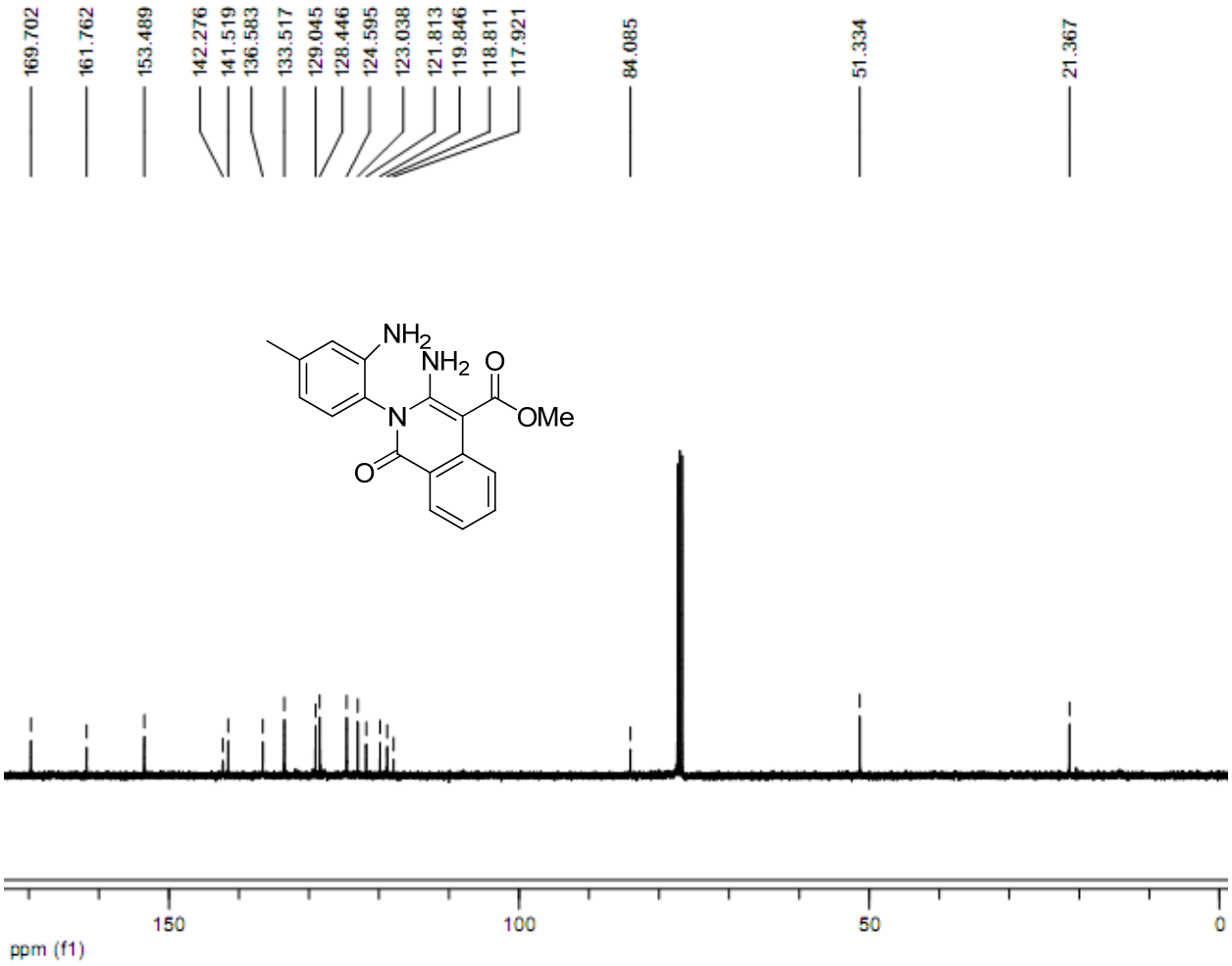

Fig. 24: ^{13}C NMR spectra of compound **3g** ($CDCl_3$, 100 MHz)

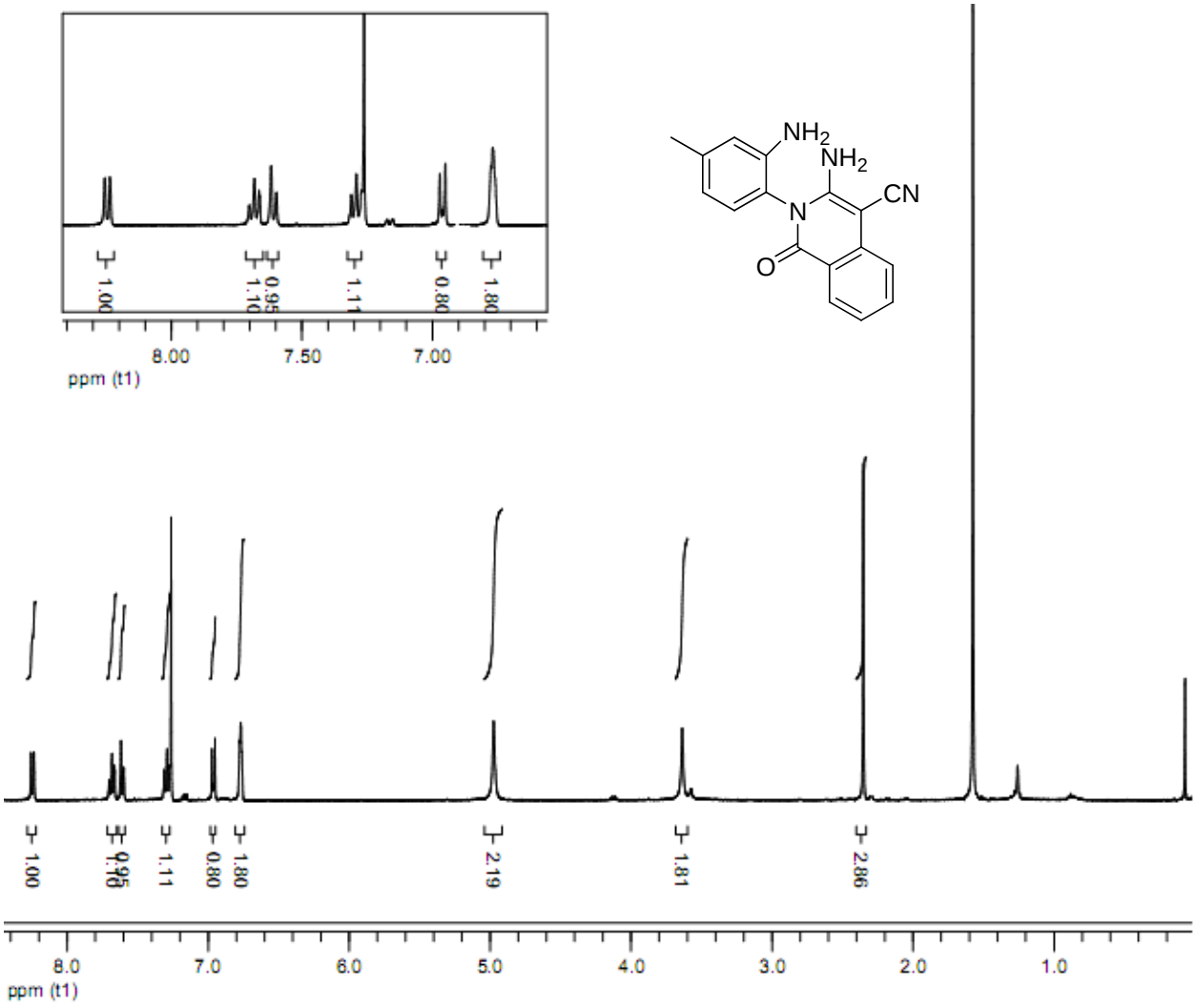

Fig. 25: ^{1}H NMR spectra of compound **3h** (DMSO-d_6, 400 MHz)

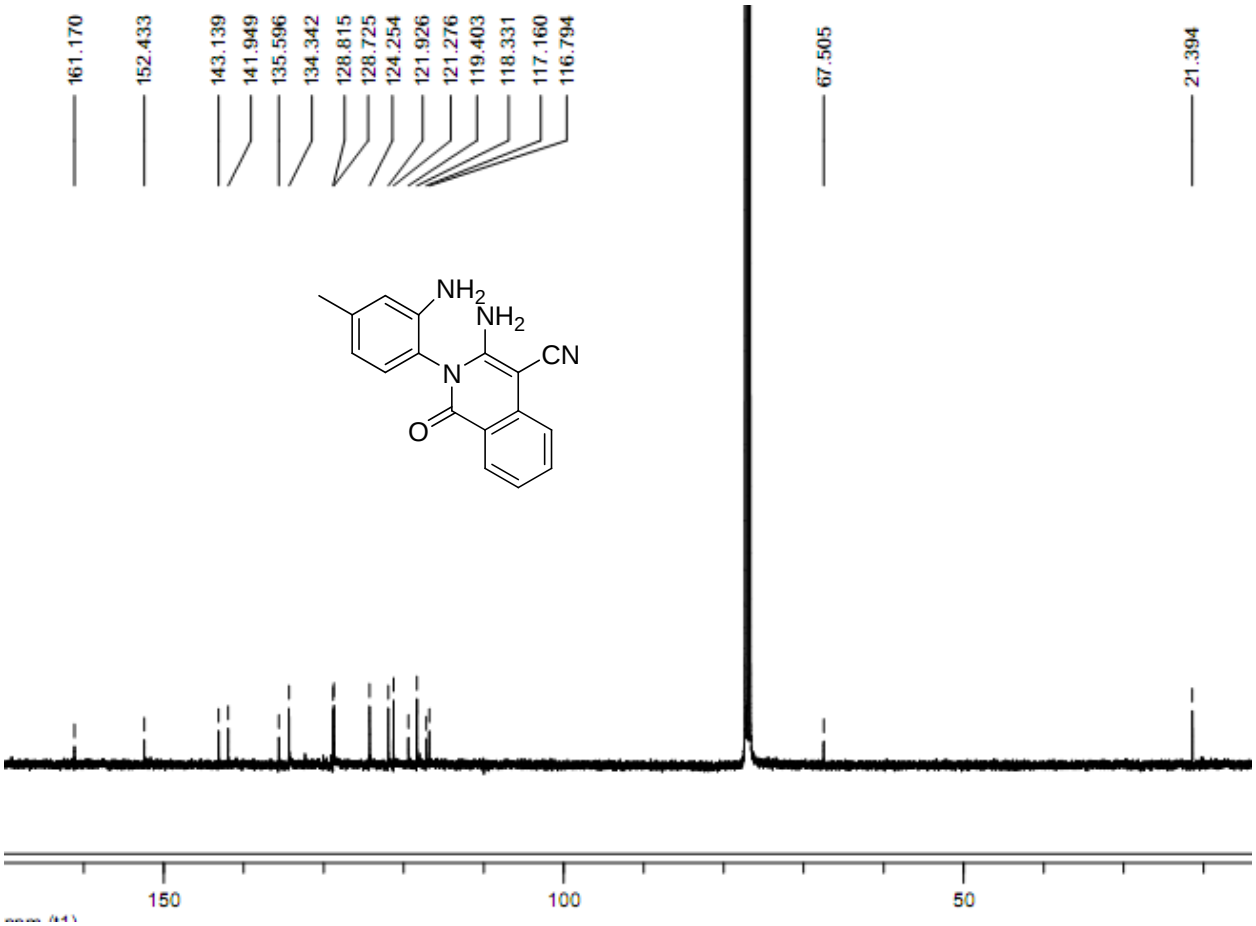

Fig. 26: ^{13}C NMR spectra of compound **3h** (DMSO-d_6, 100 MHz)

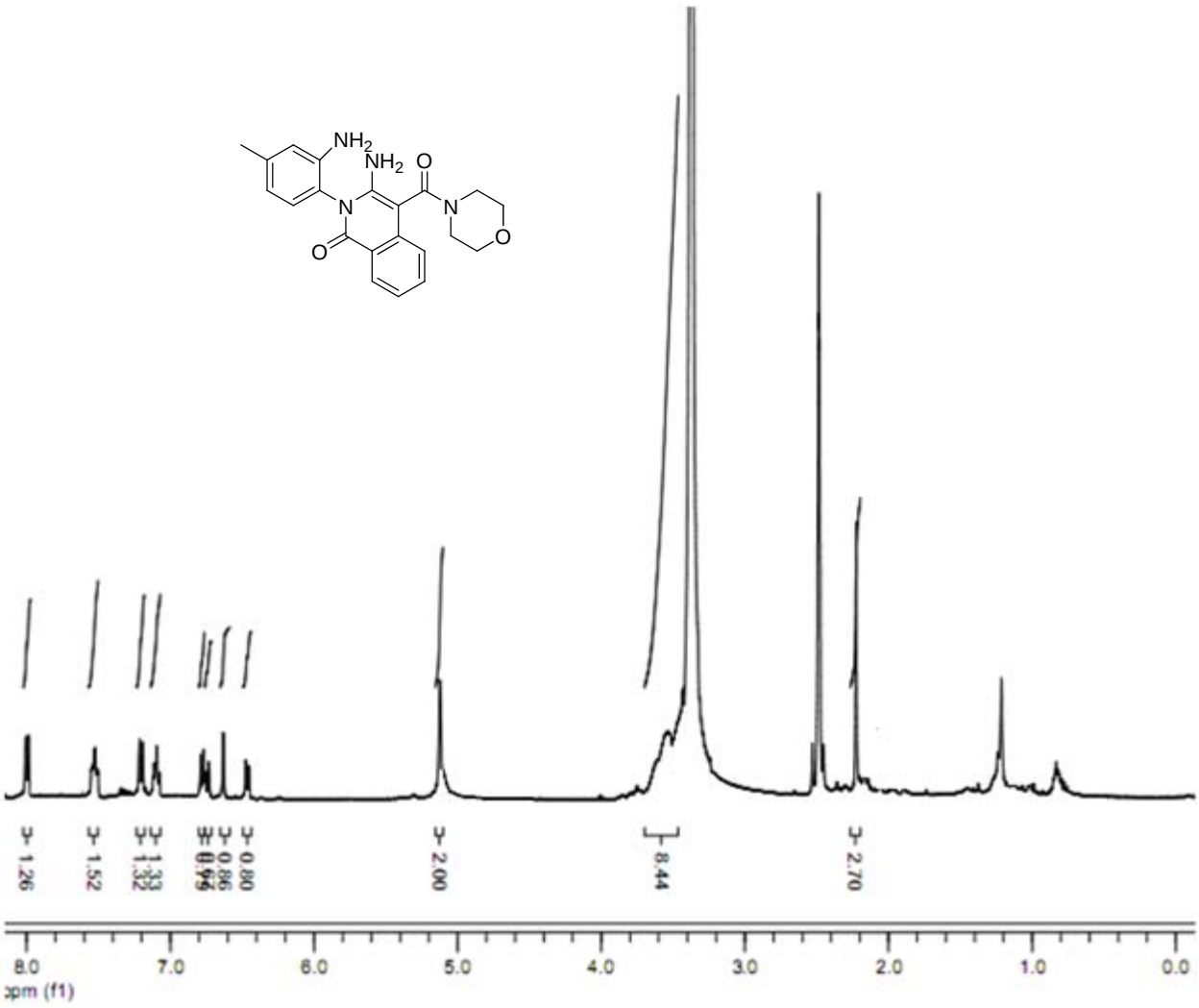

Fig. 27: ^{1}H NMR spectra of compound **3i** (DMSO-d_6, 400 MHz)

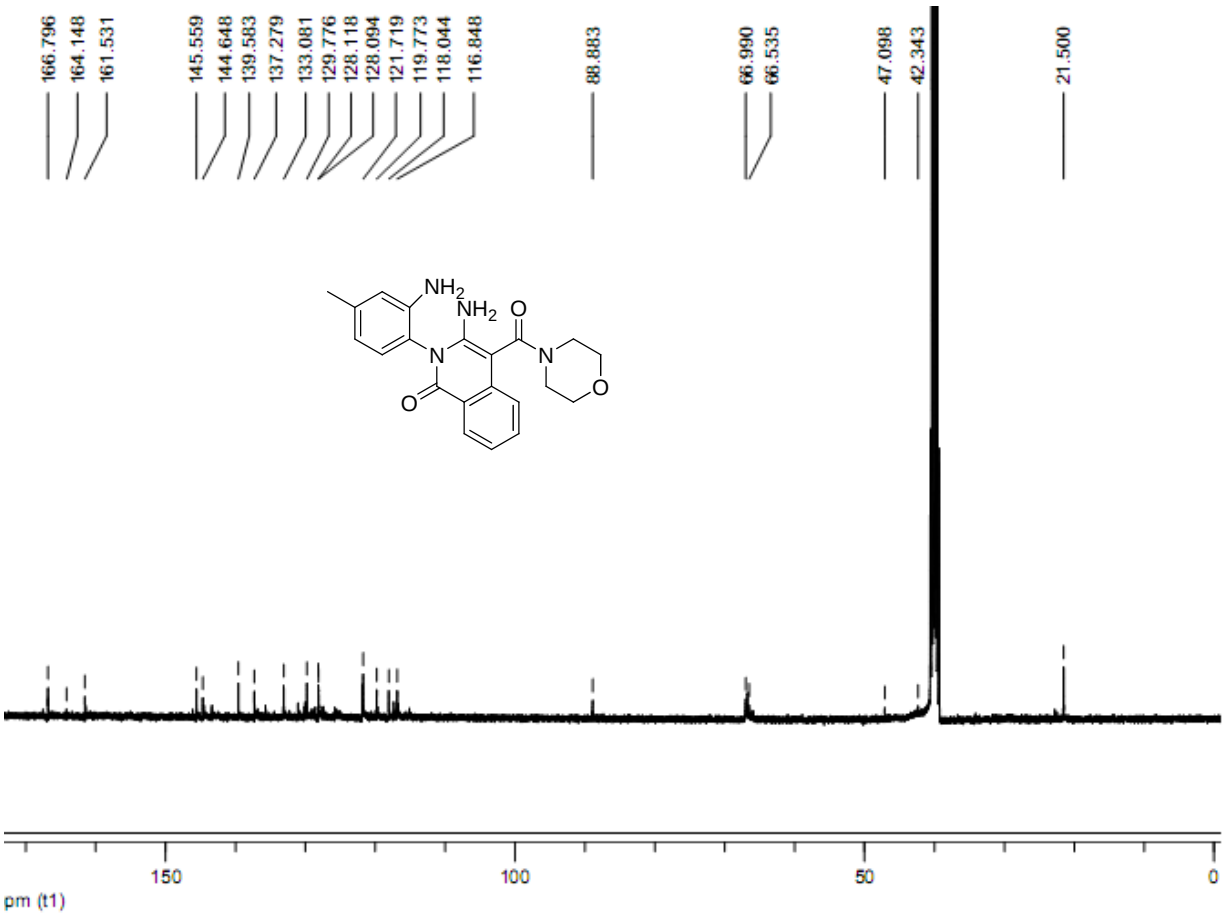

Fig. 28: ^{13}C NMR spectra of compound **3i** (DMSO-d_6, 100 MHz)

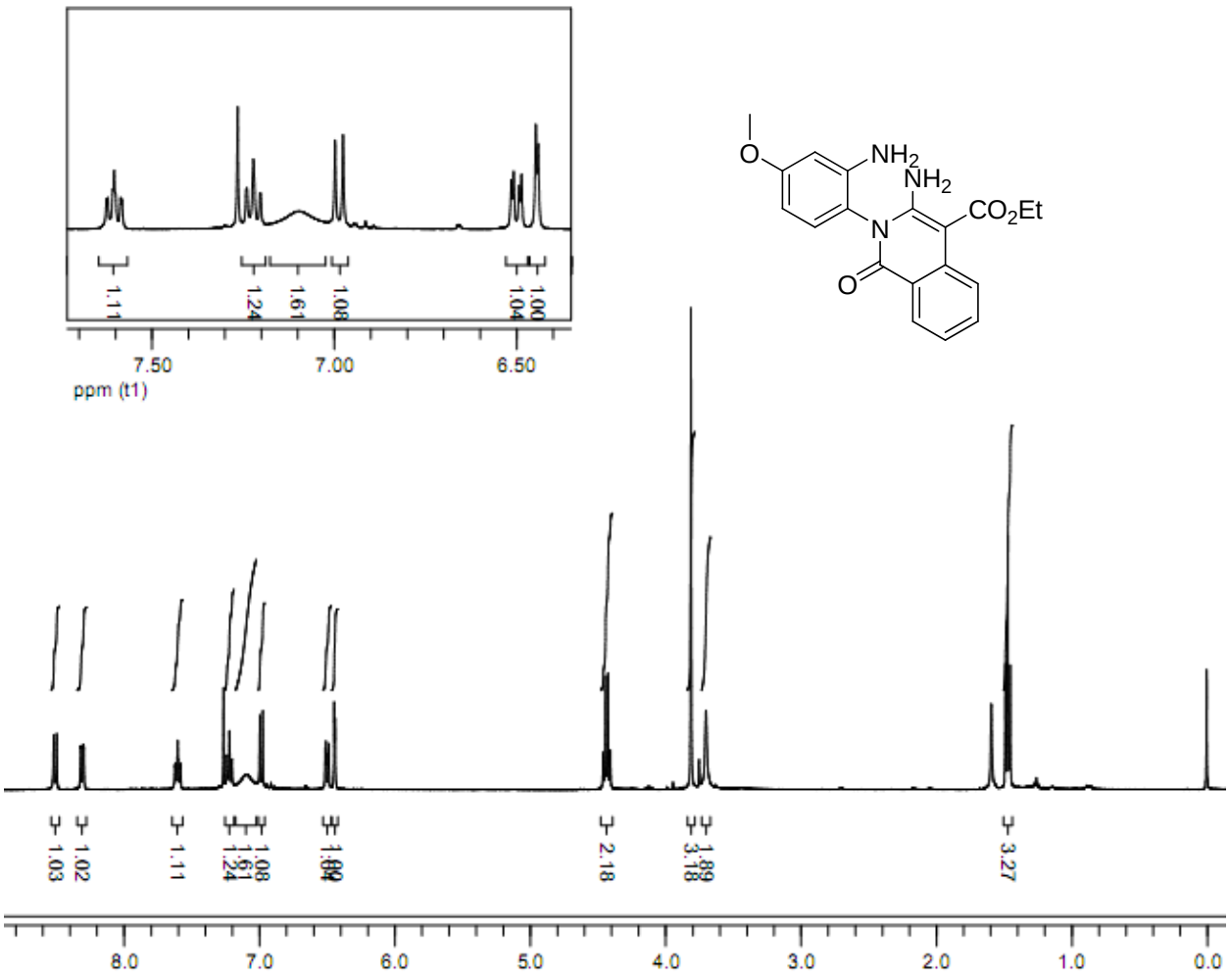

Fig. 29: ^{1}H NMR spectra of compound **3j** ($CDCl_3$, 400 MHz)

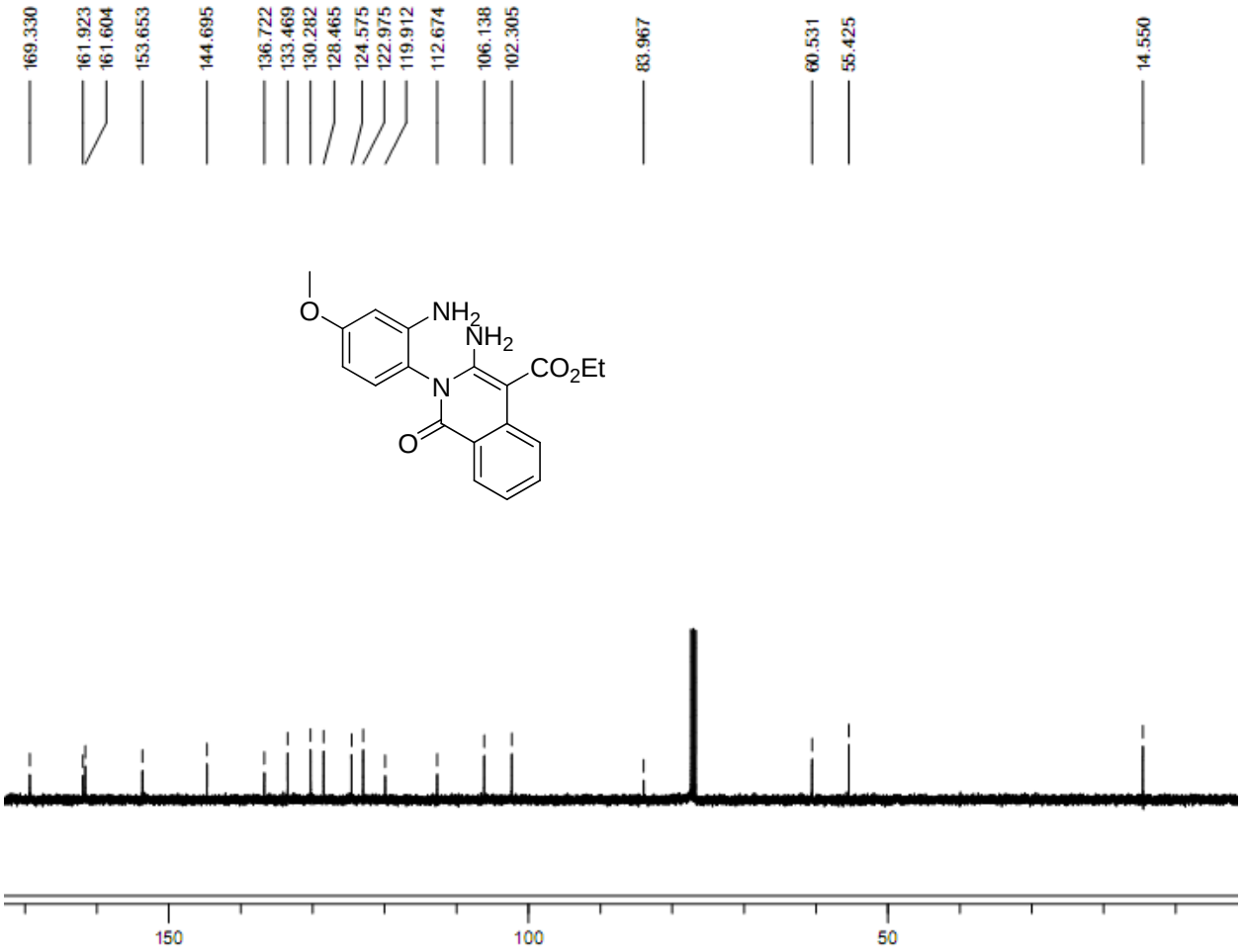

Fig. 30: ^{13}C NMR spectra of compound **3j** ($CDCl_3$, 100 MHz)

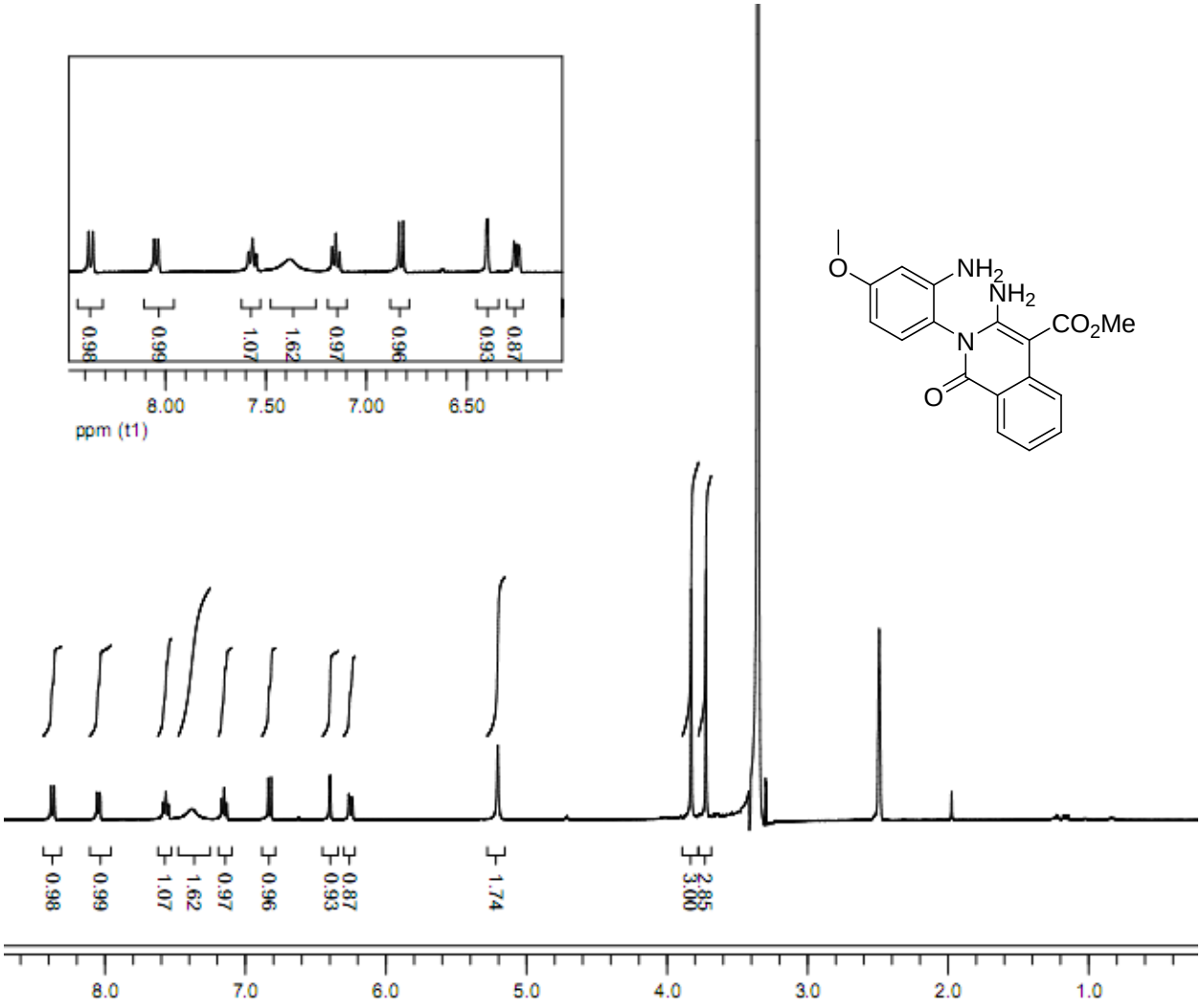

Fig. 31: ^{1}H NMR spectra of compound **3k** (DMSO-d_6, 400 MHz)

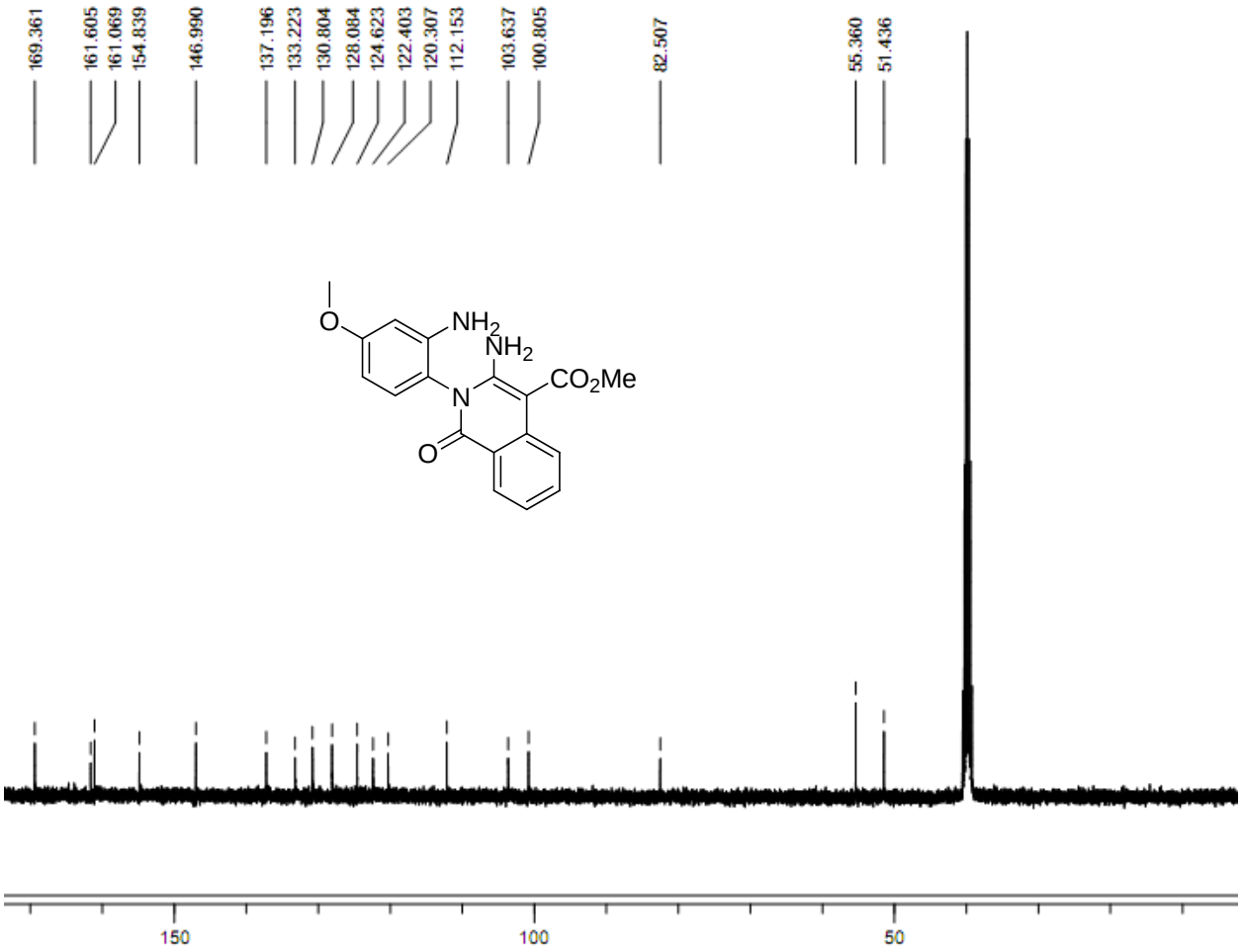

Fig. 32: ^{13}C NMR spectra of compound **3k** (DMSO-d_6, 100 MHz)

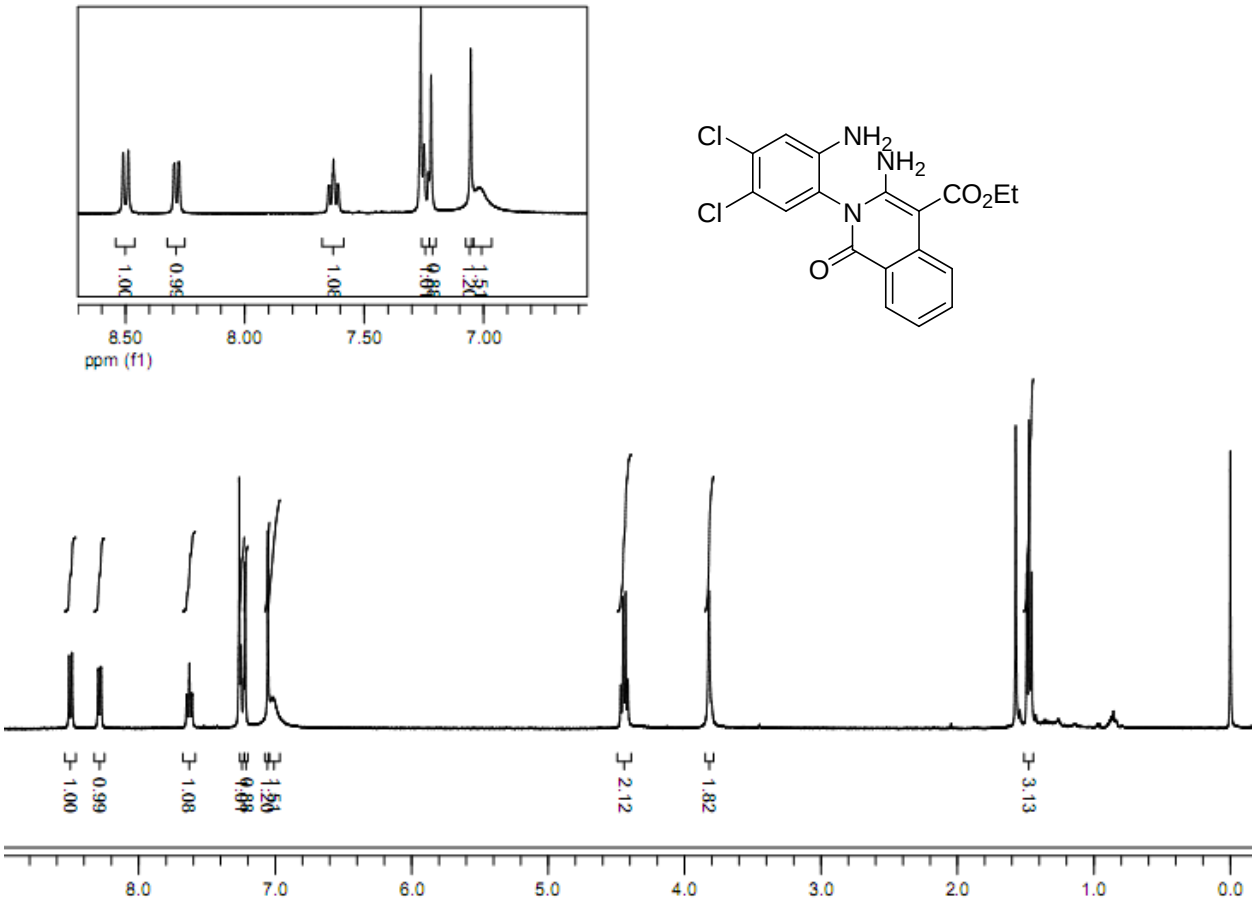

Fig. 33: ^{1}H NMR spectra of compound **3l** ($CDCl_3$, 400 MHz)

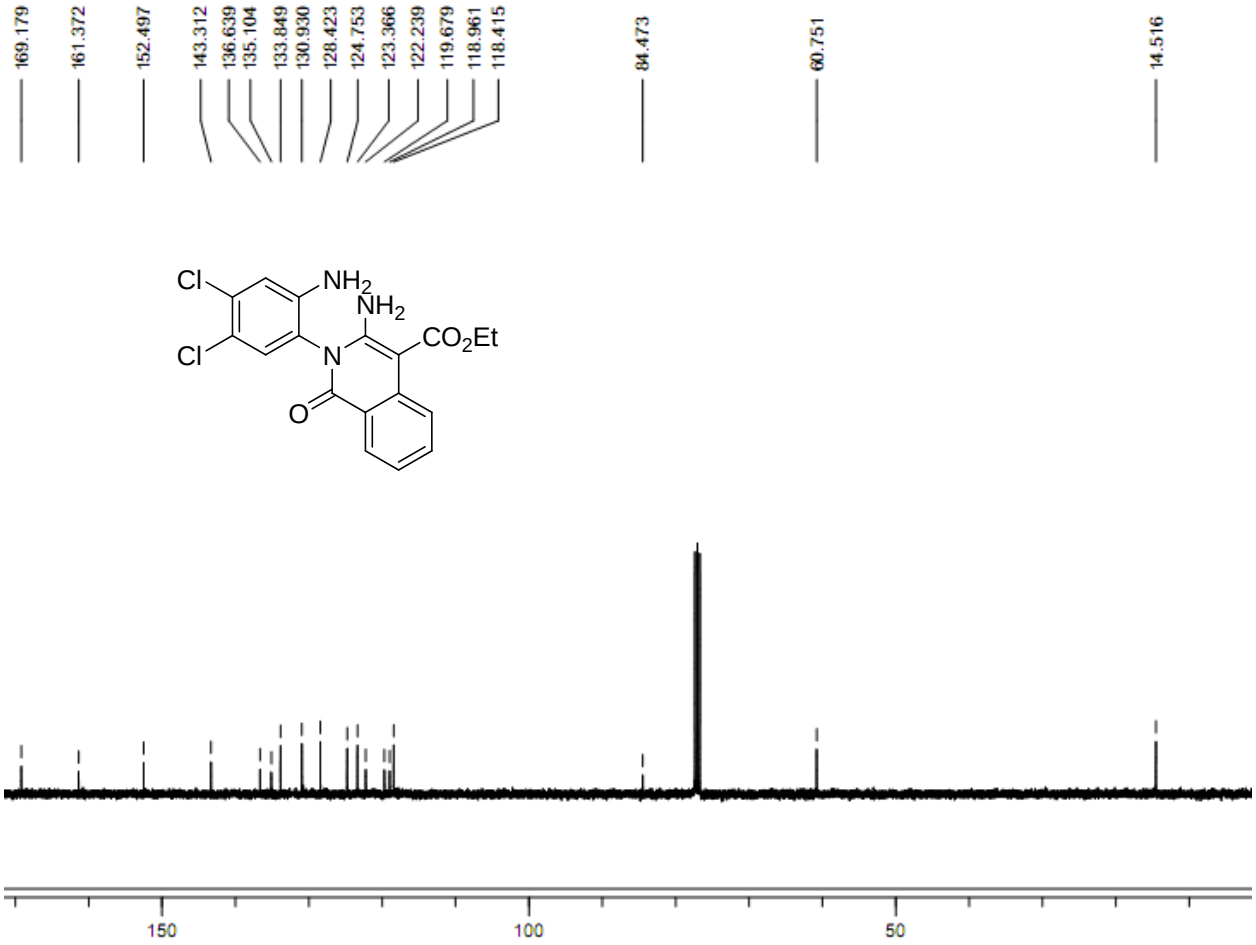

Fig. 34: ^{13}C NMR spectra of compound **3l** ($CDCl_3$, 100 MHz)

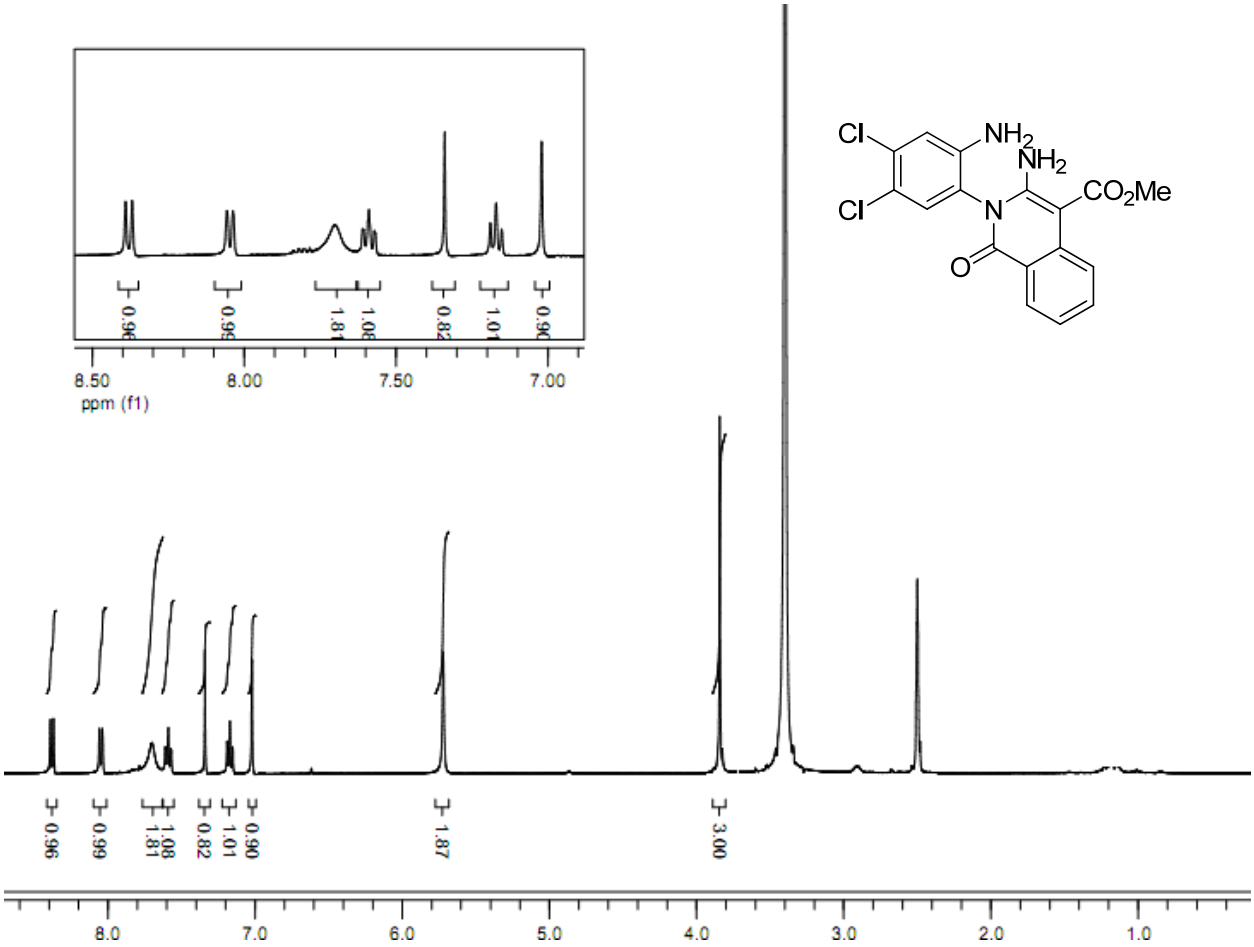

Fig. 35: ^{1}H NMR spectra of compound **3m** (DMSO-d_6, 400 MHz)

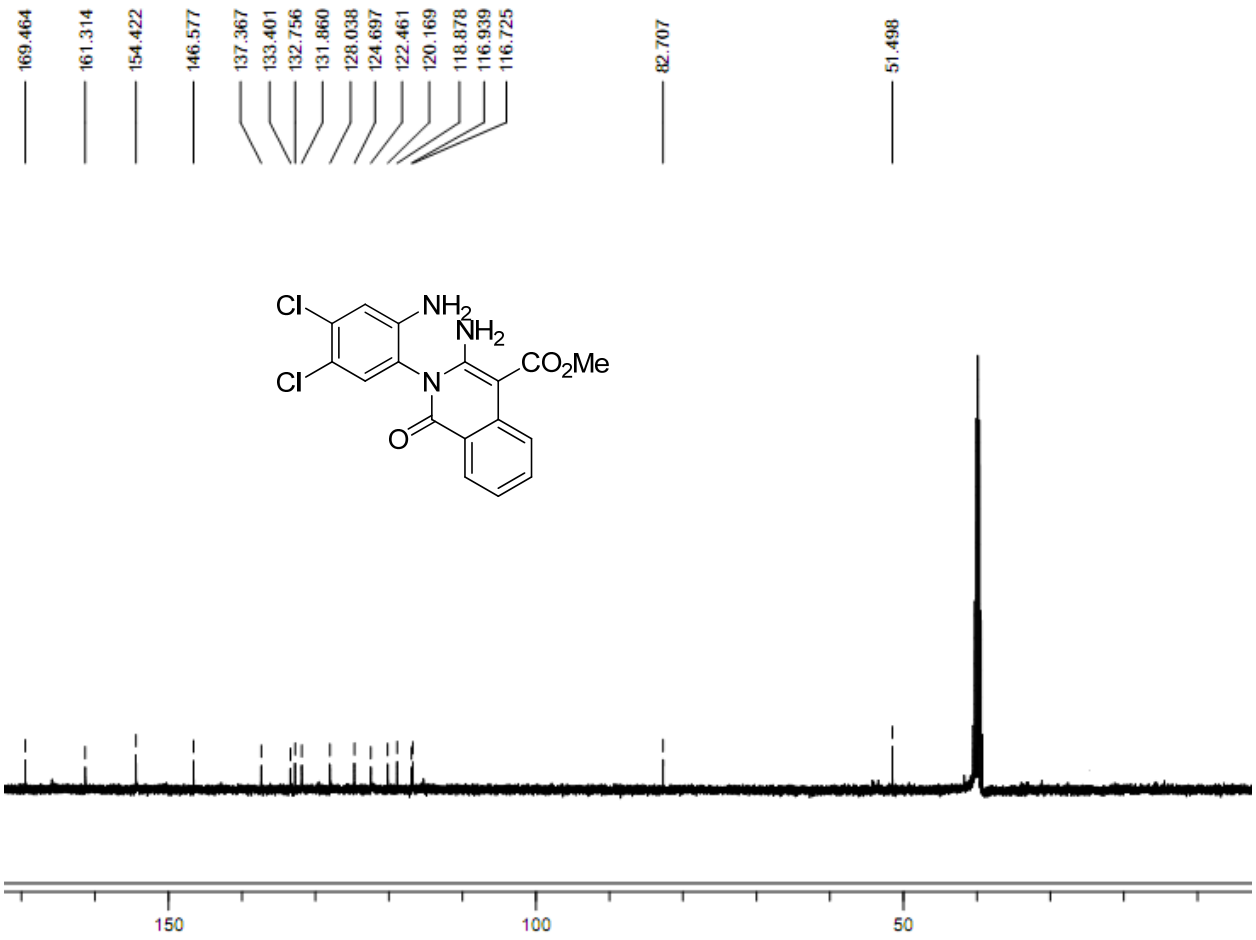

Fig. 36: ^{13}C NMR spectra of compound **3m** (DMSO-d_6, 100 MHz)

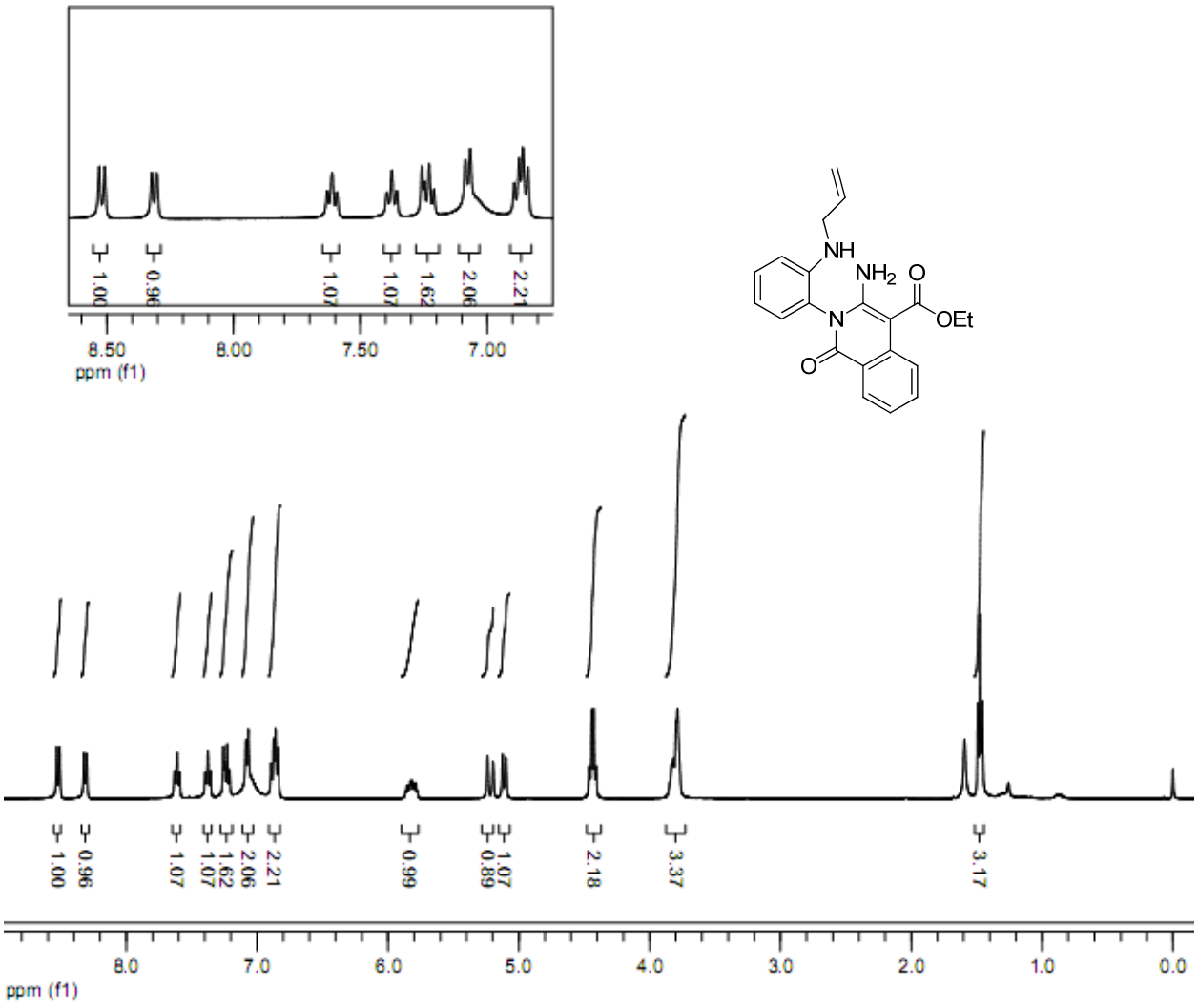

Fig. 37: ^{1}H NMR spectra of compound **3n** ($CDCl_3$, 400 MHz)

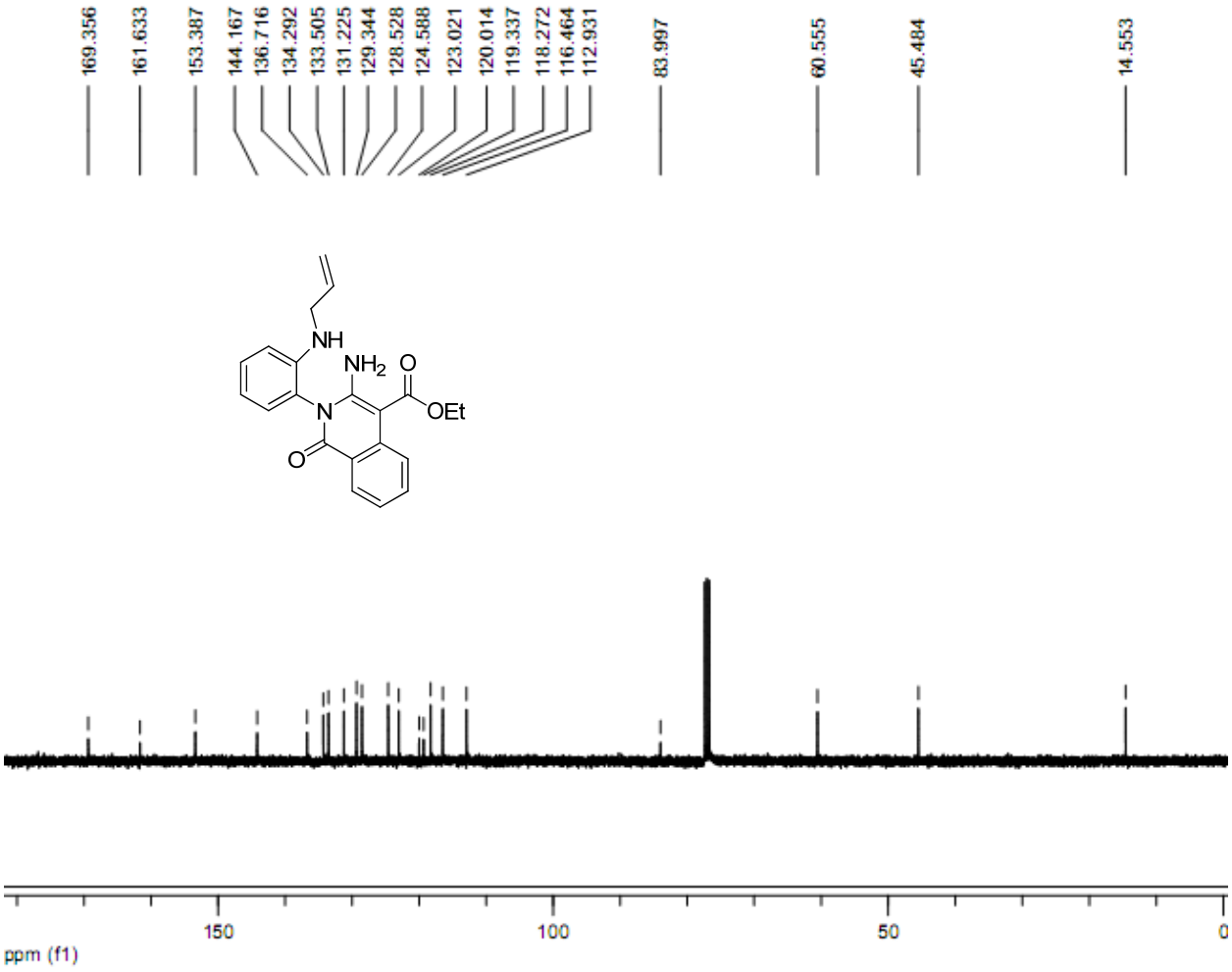

Fig. 38: ^{13}C NMR spectra of compound **3n** ($CDCl_3$, 100 MHz)

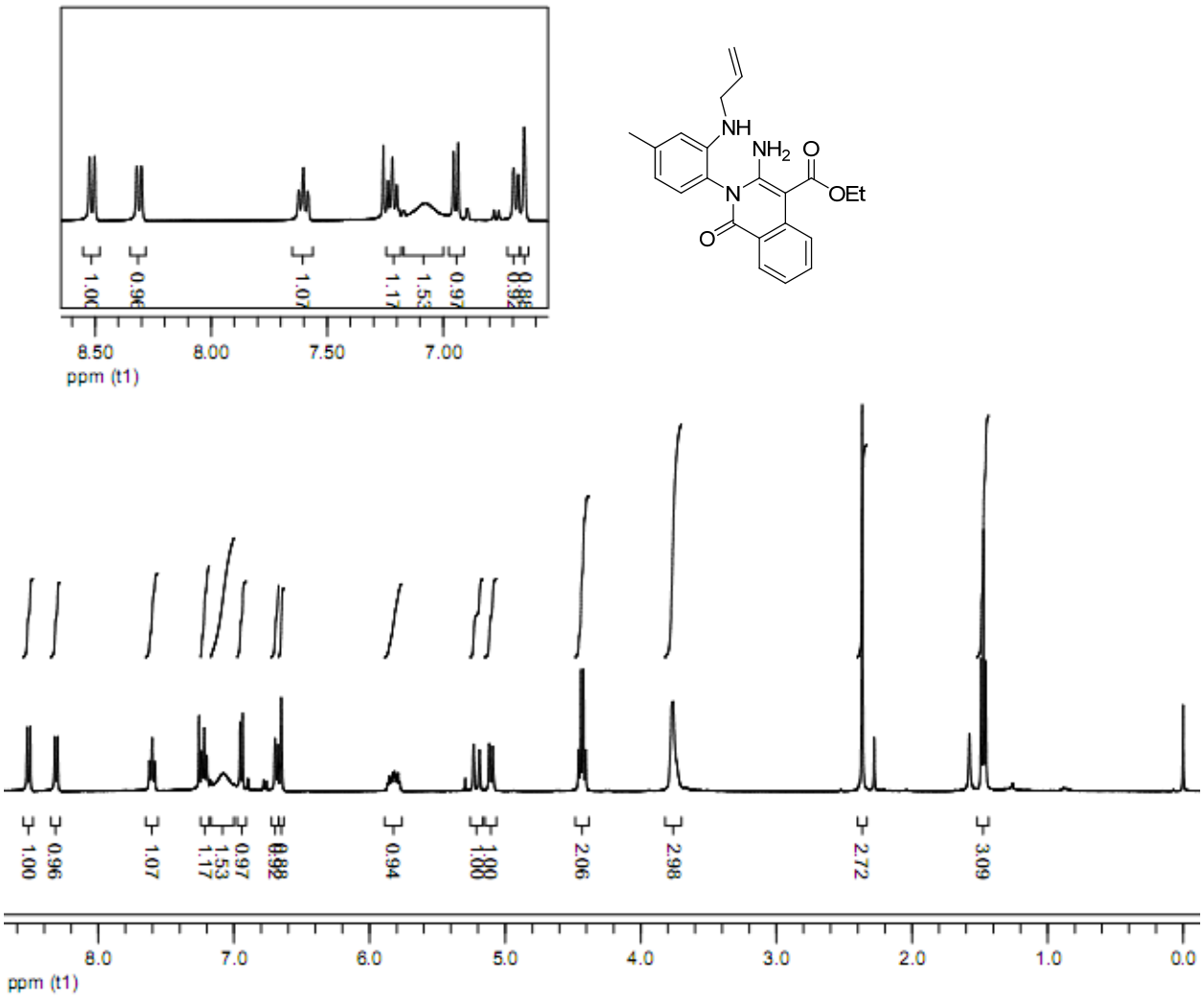

Fig. 39: ^{1}H NMR spectra of compound **3o** ($CDCl_3$, 400 MHz)

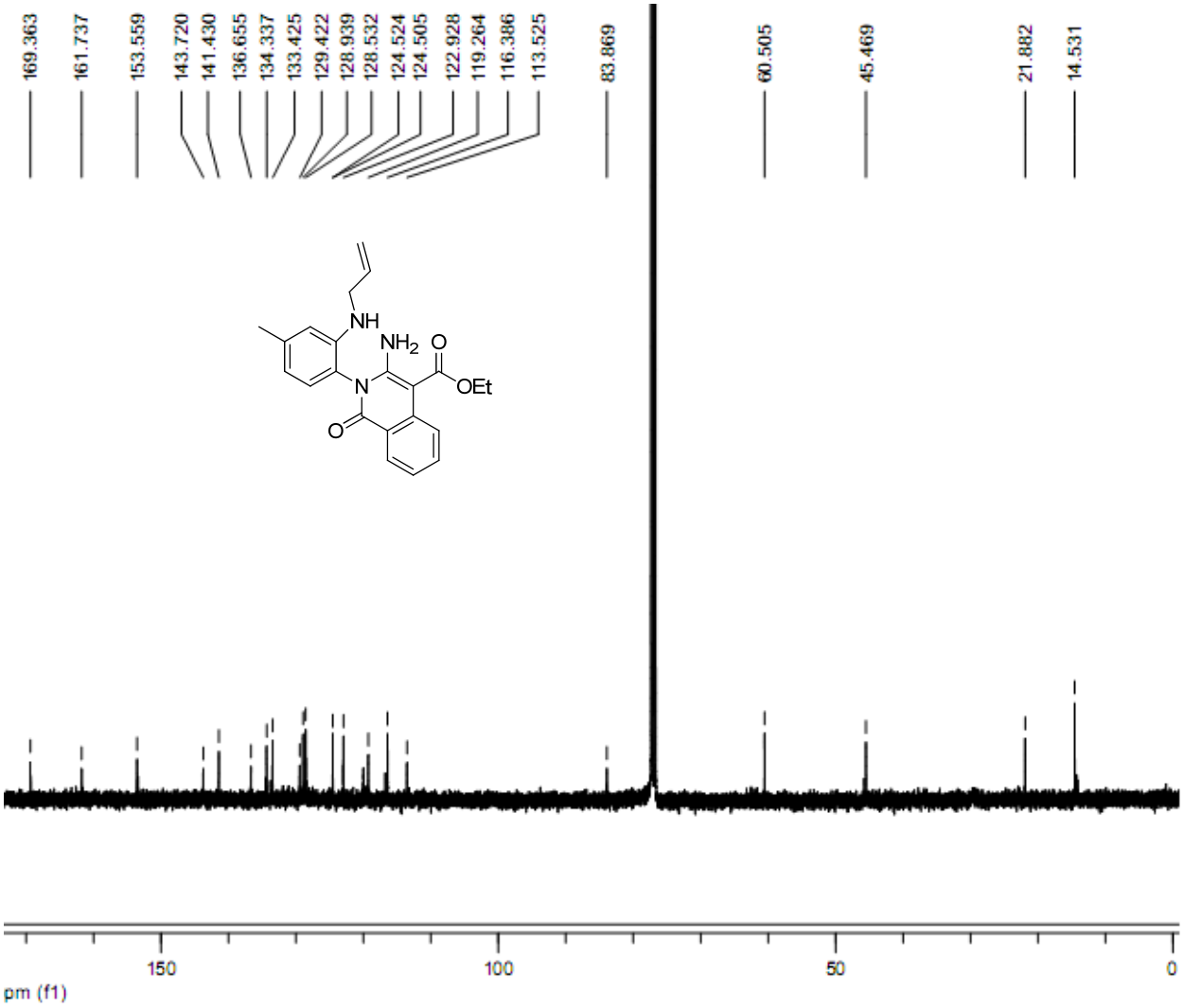

Fig. 40: ^{13}C NMR spectra of compound **30** ($CDCl_3$, 100 MHz)

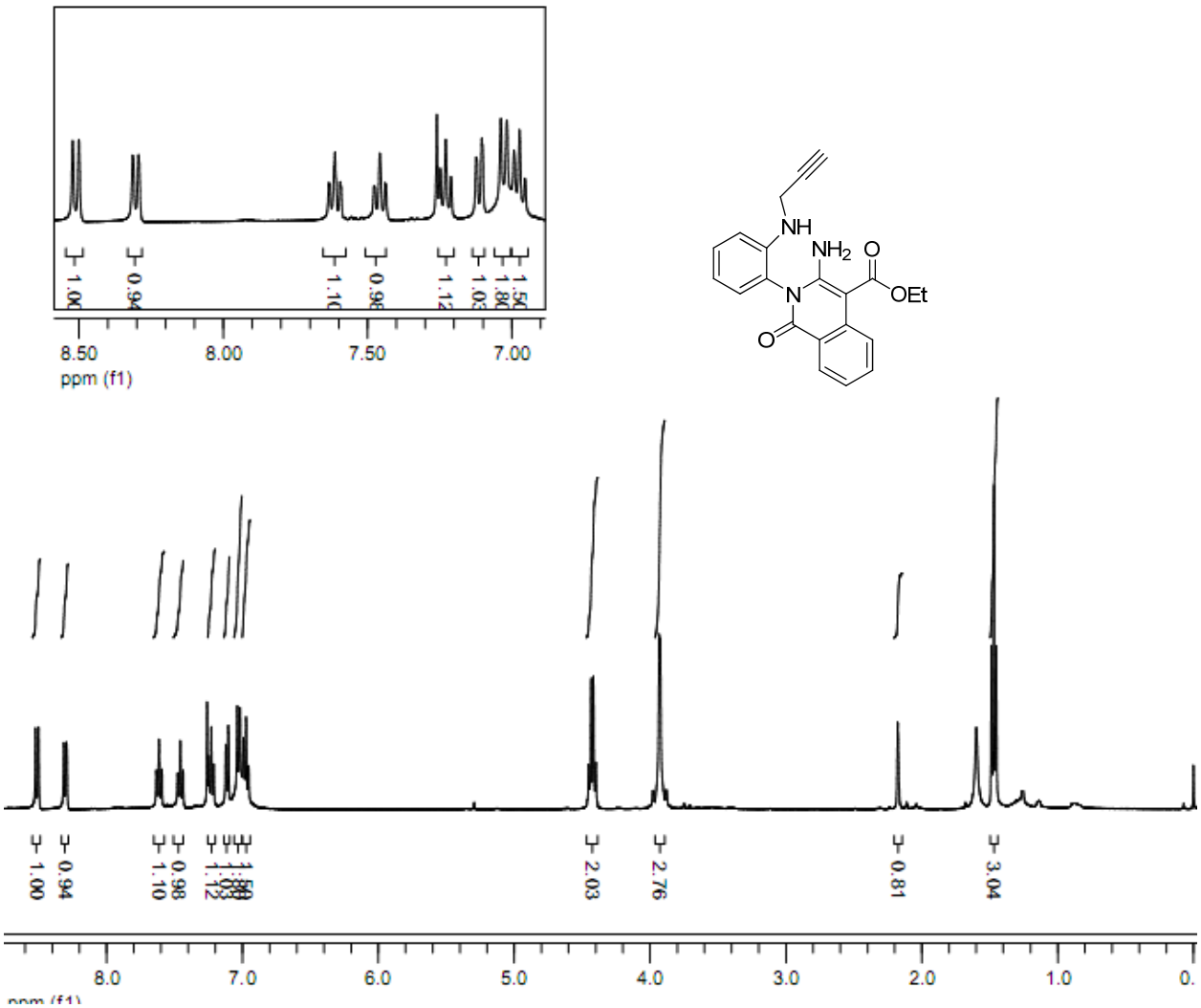

Fig. 41: ^{1}H NMR spectra of compound **3p** ($CDCl_3$, 400 MHz)

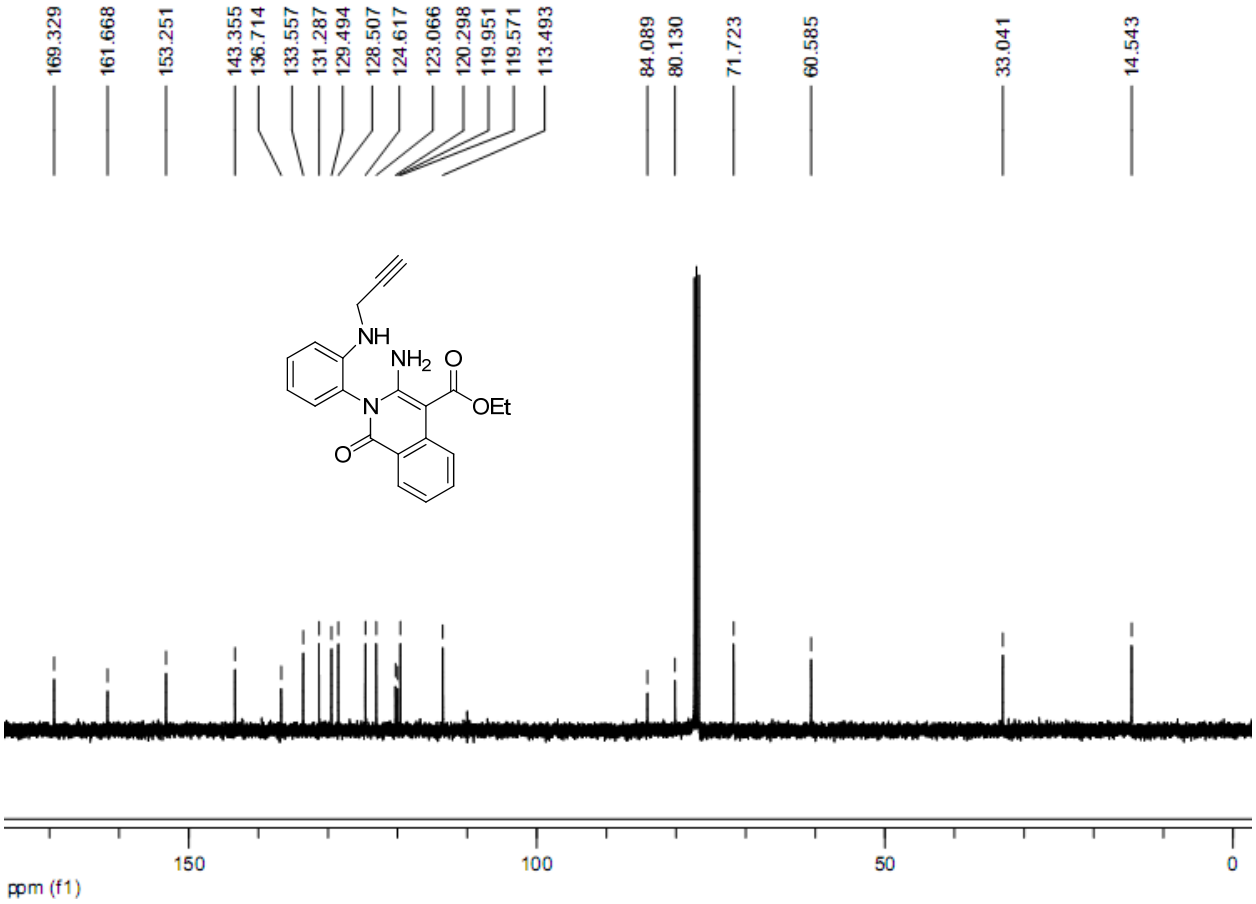

Fig. 42: ^{13}C NMR spectra of compound **3p** ($CDCl_3$, 100 MHz)

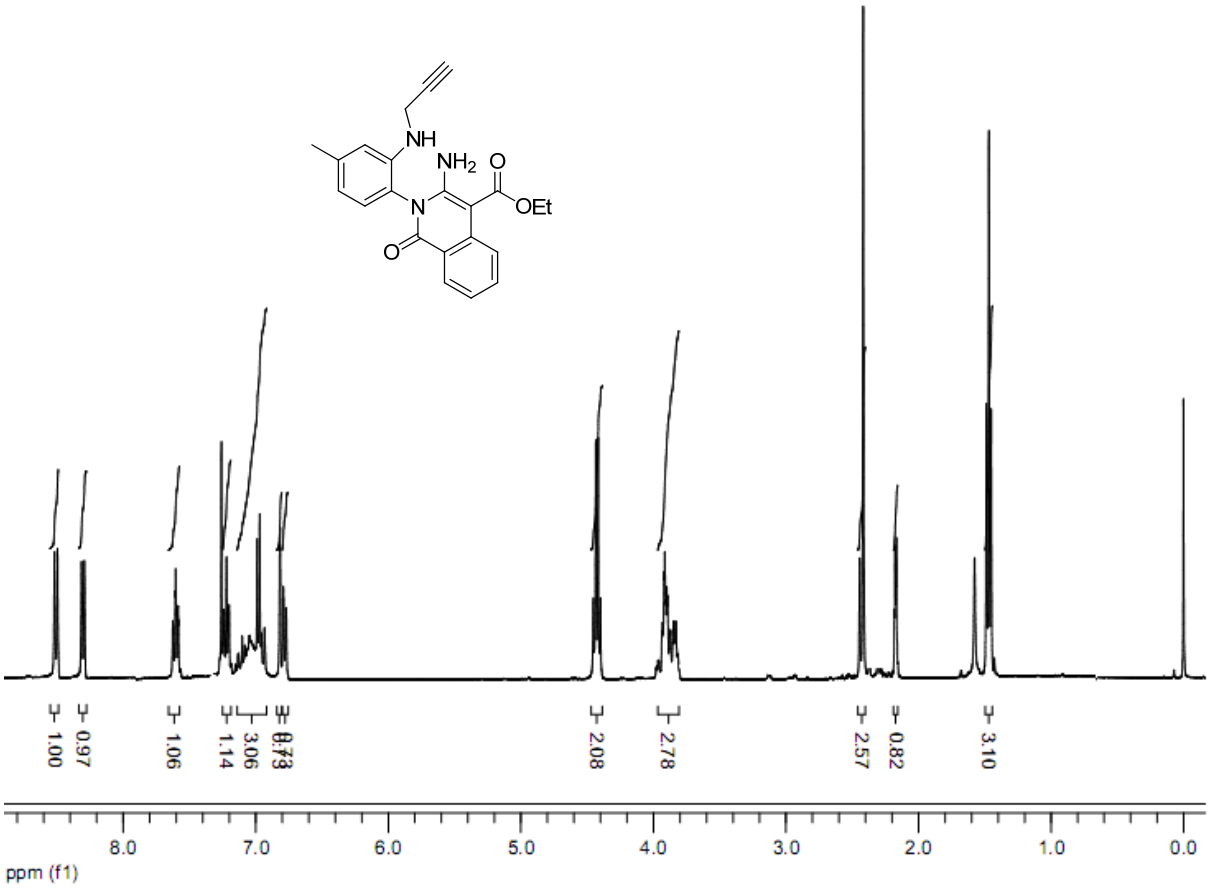

Fig. 43: ^{1}H NMR spectra of compound **3q** ($CDCl_3$, 400 MHz)

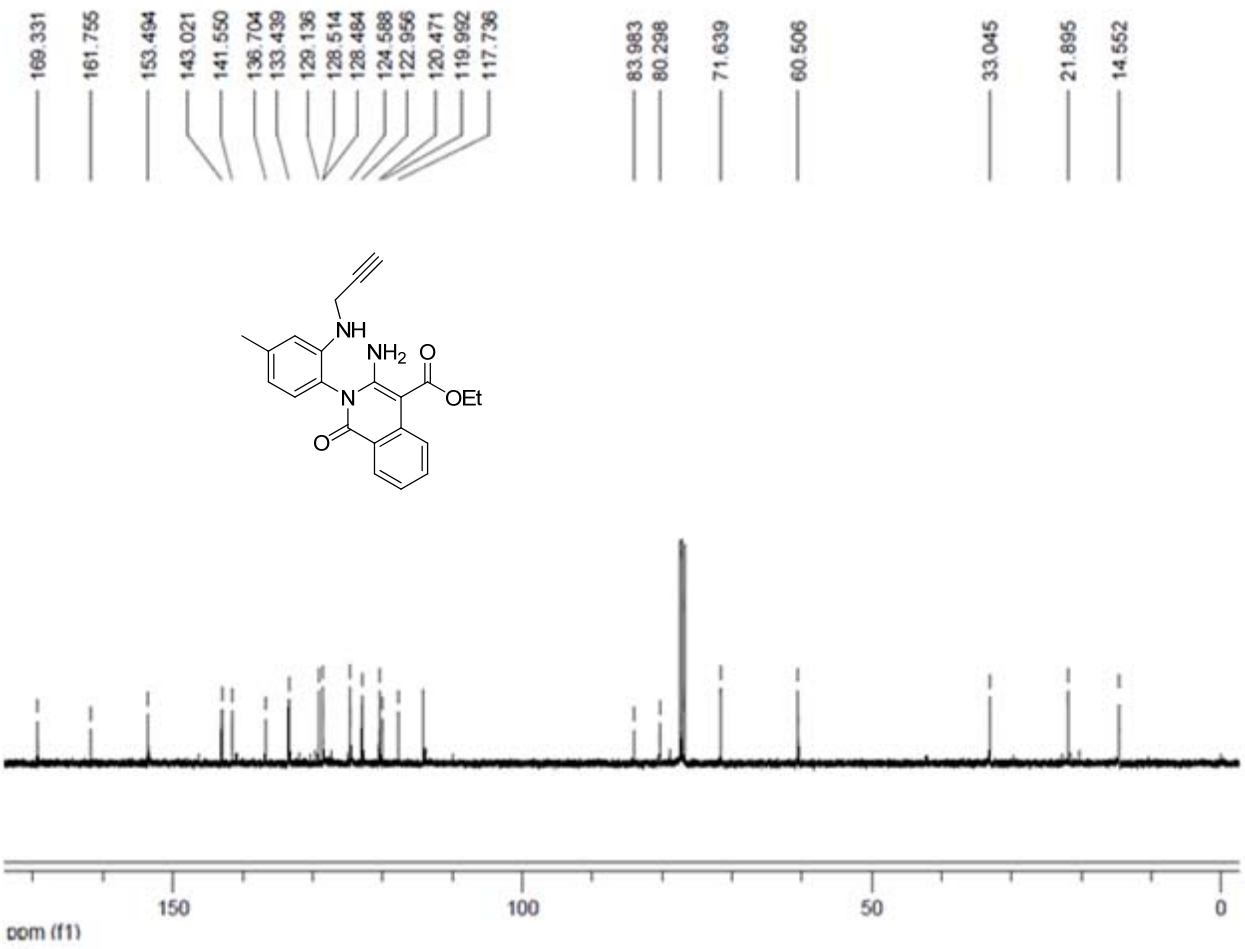

Fig. 44: ^{13}C NMR spectra of compound **3q** ($CDCl_3$, 100 MHz)

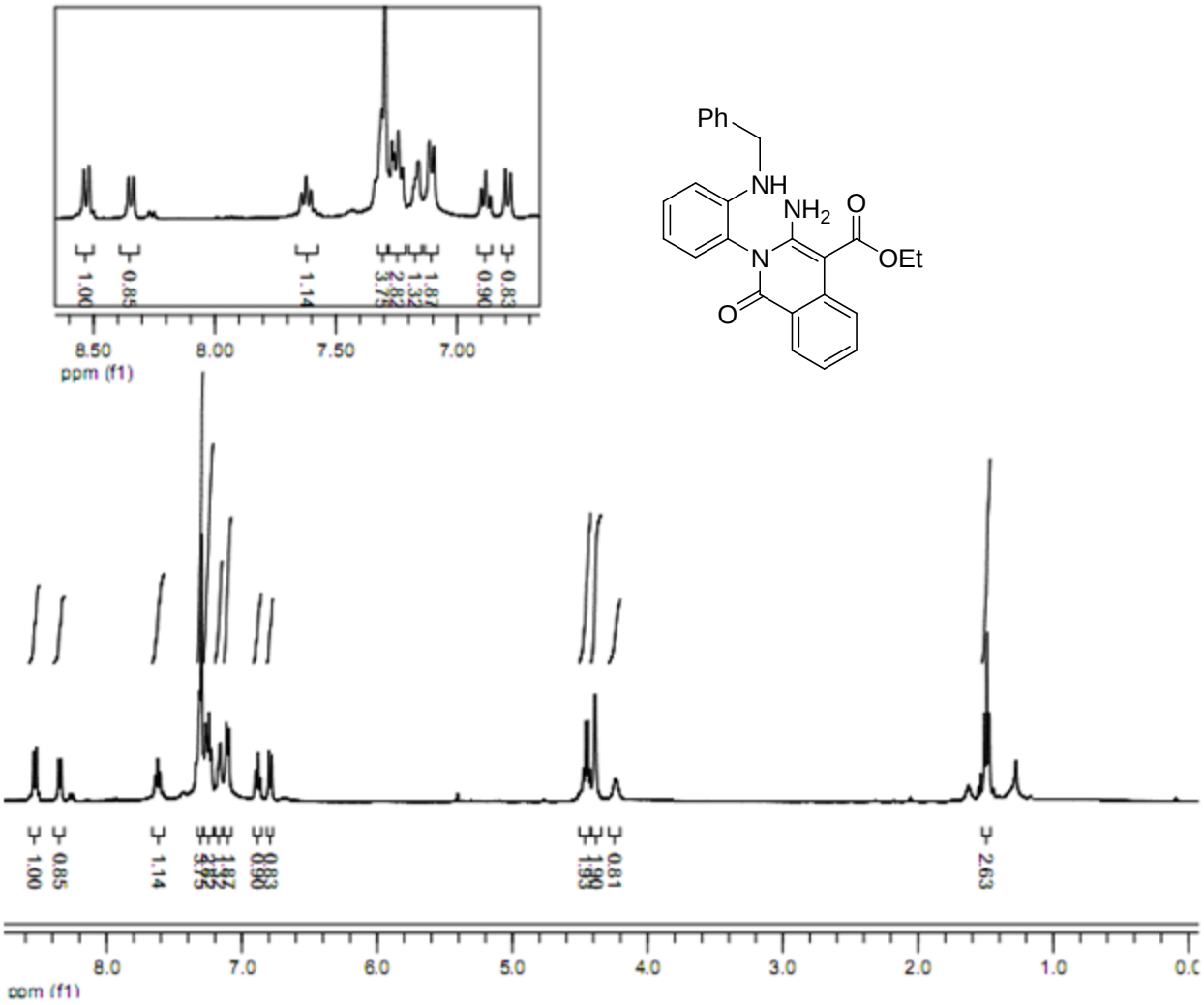

Fig. 45: ^{1}H NMR spectra of compound **3r** ($CDCl_3$, 400 MHz)

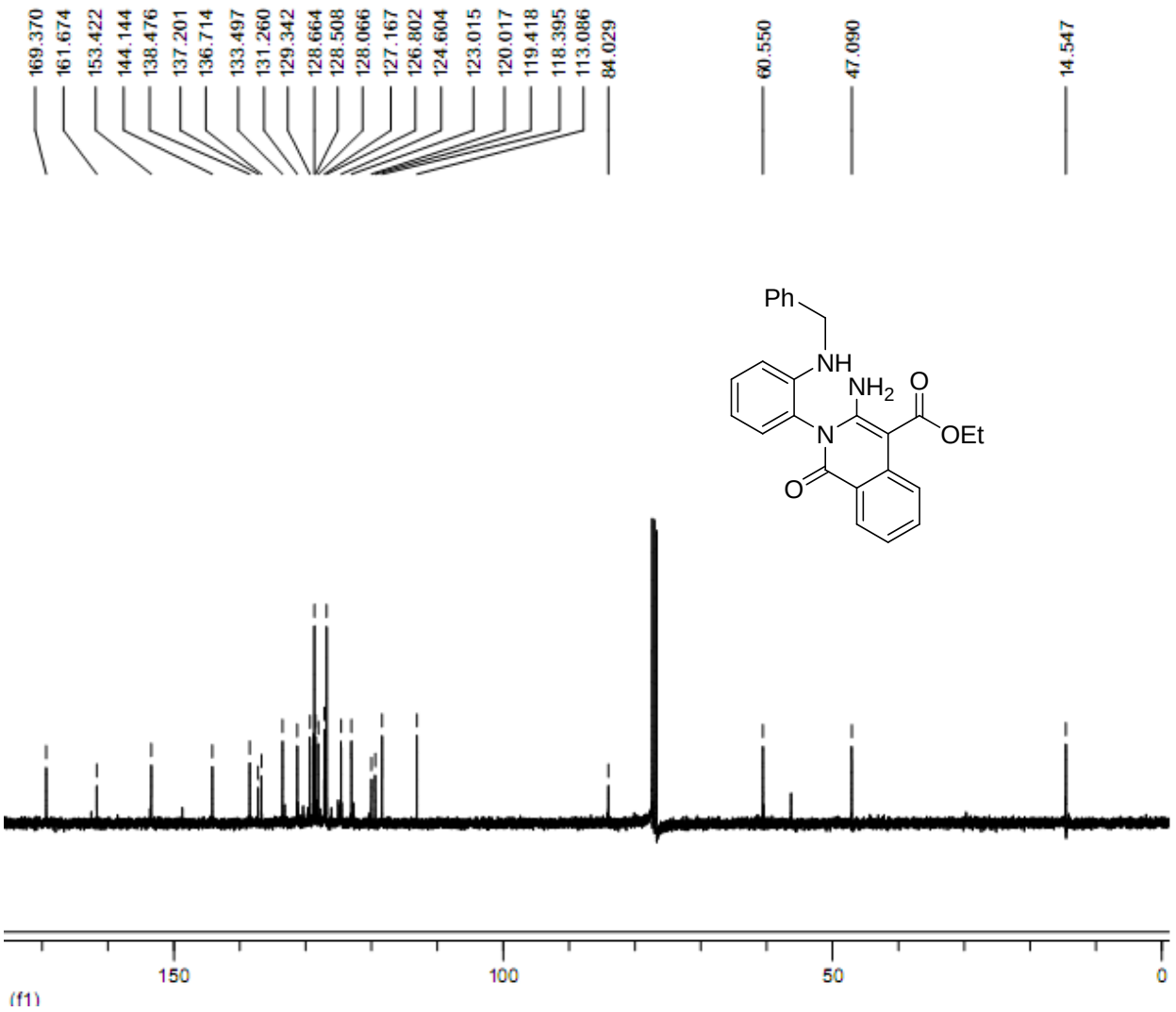

Fig. 46: ^{13}C NMR spectra of compound **3r** ($CDCl_3$, 100 MHz)

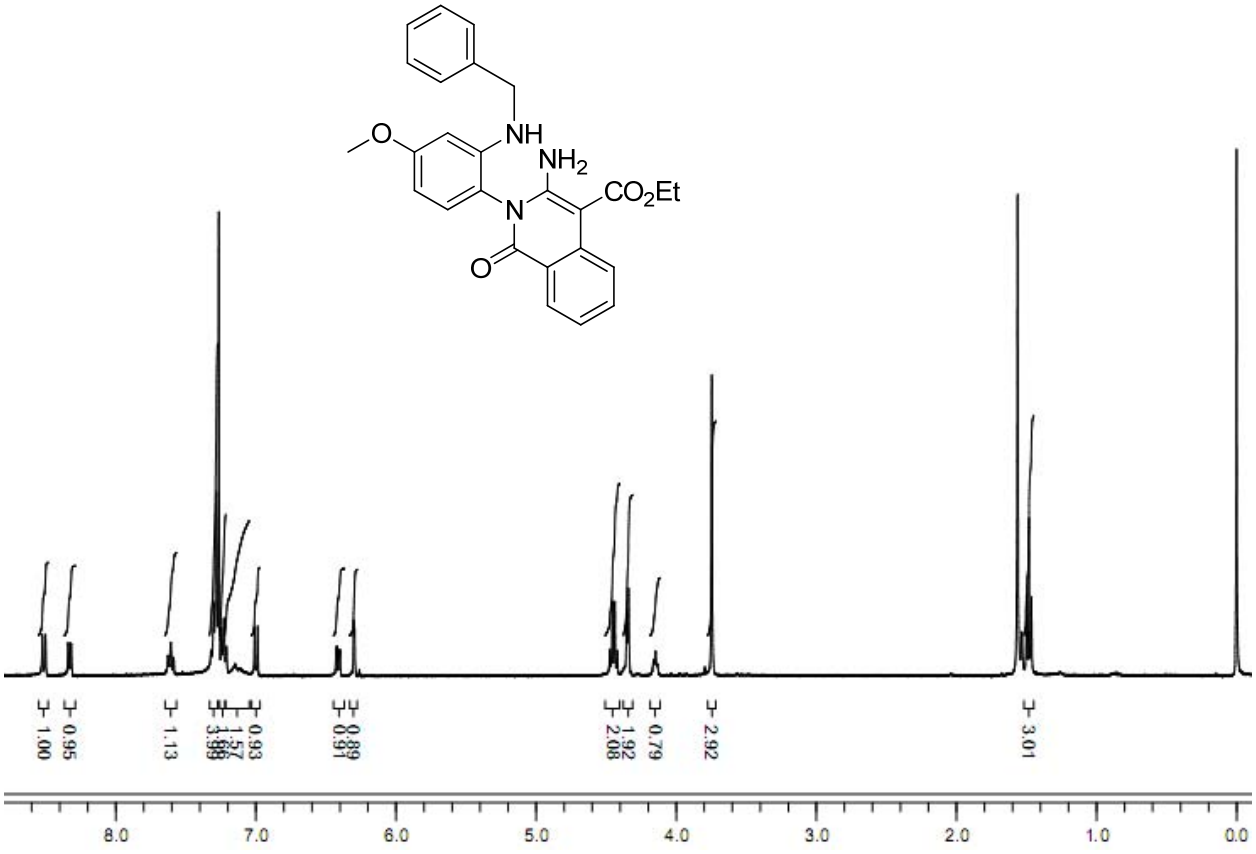

Fig. 47: ^{1}H NMR spectra of compound **3s** ($CDCl_3$, 400 MHz)

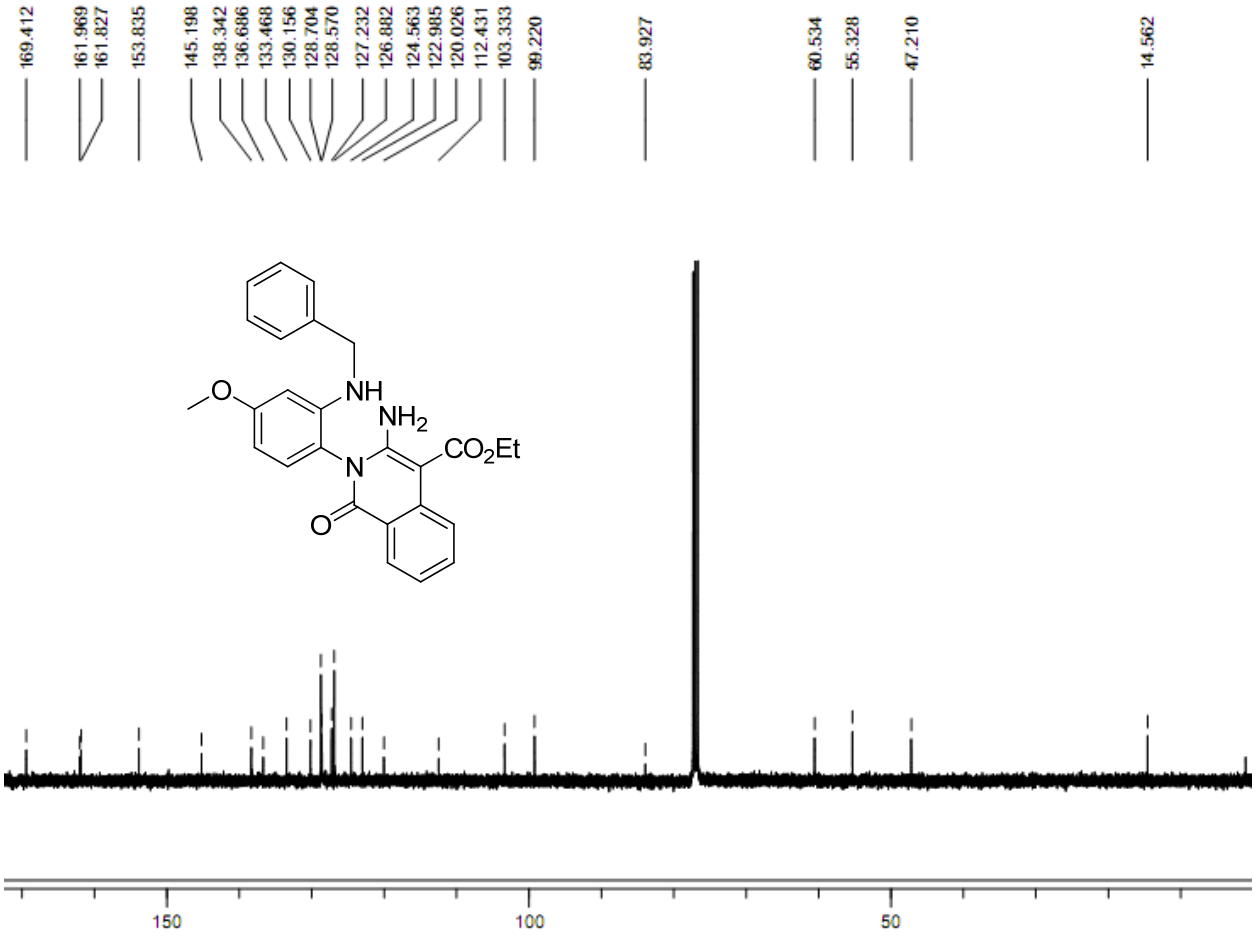

Fig. 48: ^{13}C NMR spectra of compound **3s** ($CDCl_3$, 100 MHz)

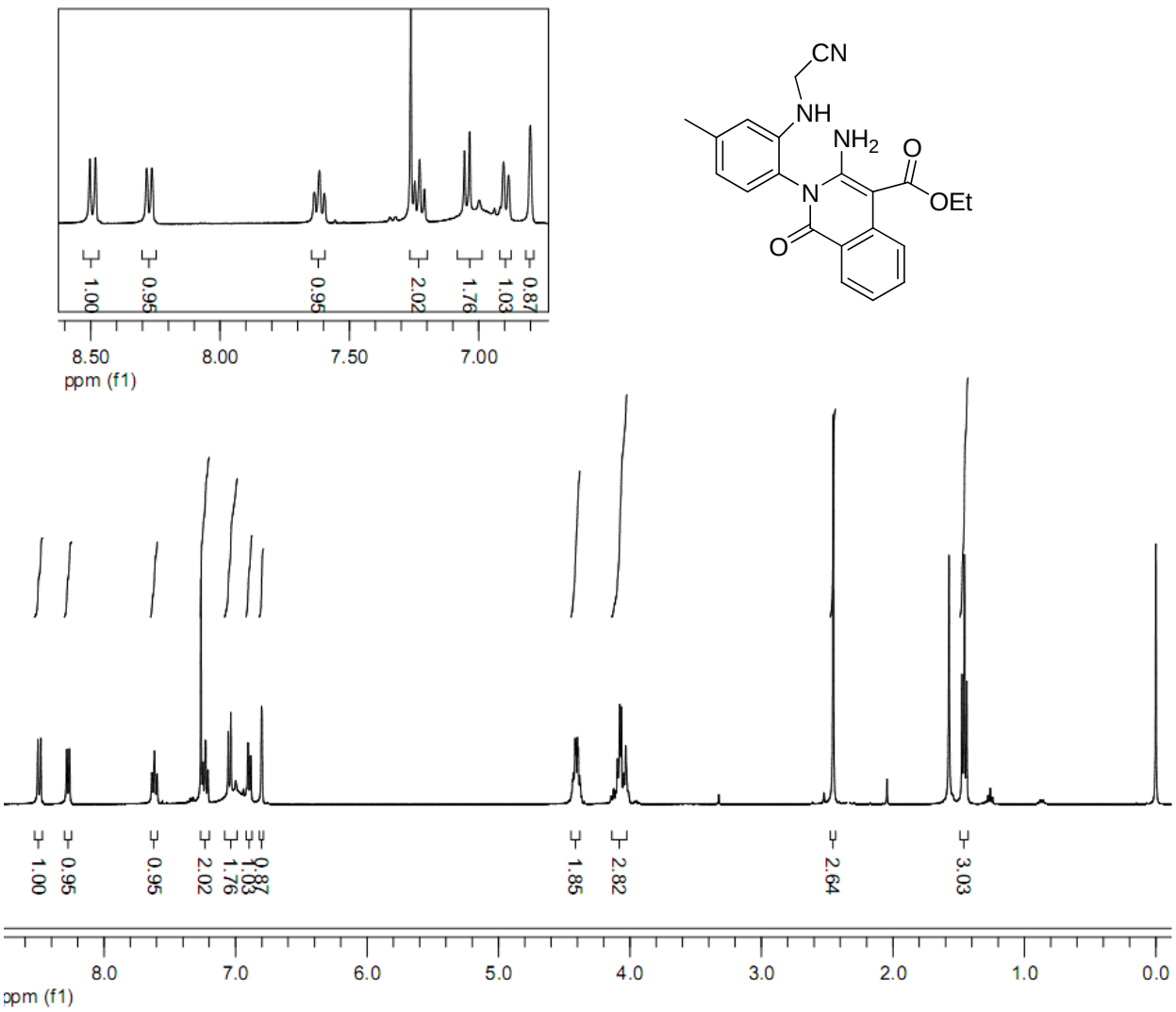

Fig. 49: ^{1}H NMR spectra of compound **3t** ($CDCl_3$, 400 MHz)

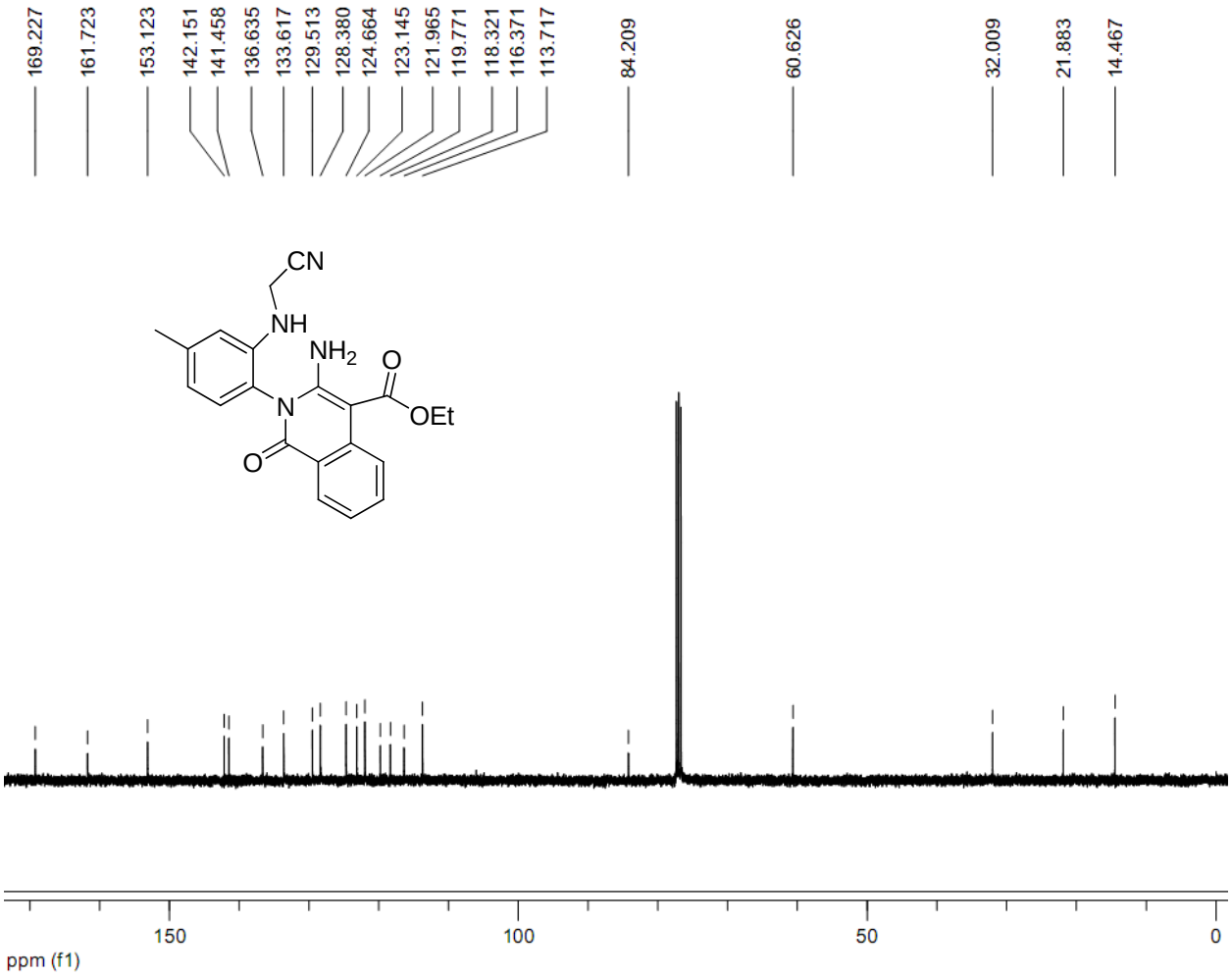

Fig. 50: ^{13}C NMR spectra of compound **3t** ($CDCl_3$, 100 MHz)

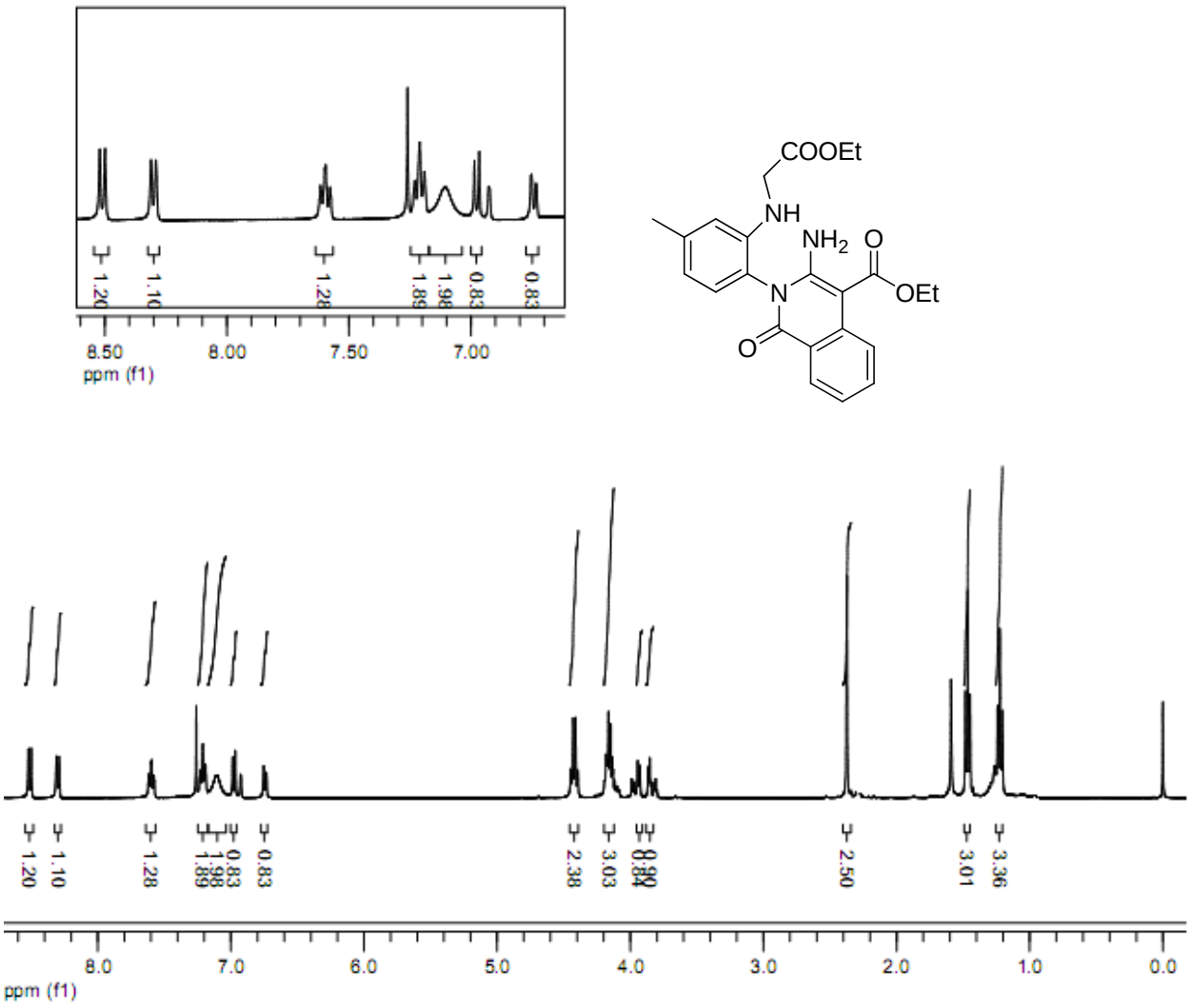

Fig. 51: ^{1}H NMR spectra of compound **3u** ($CDCl_3$, 400 MHz)

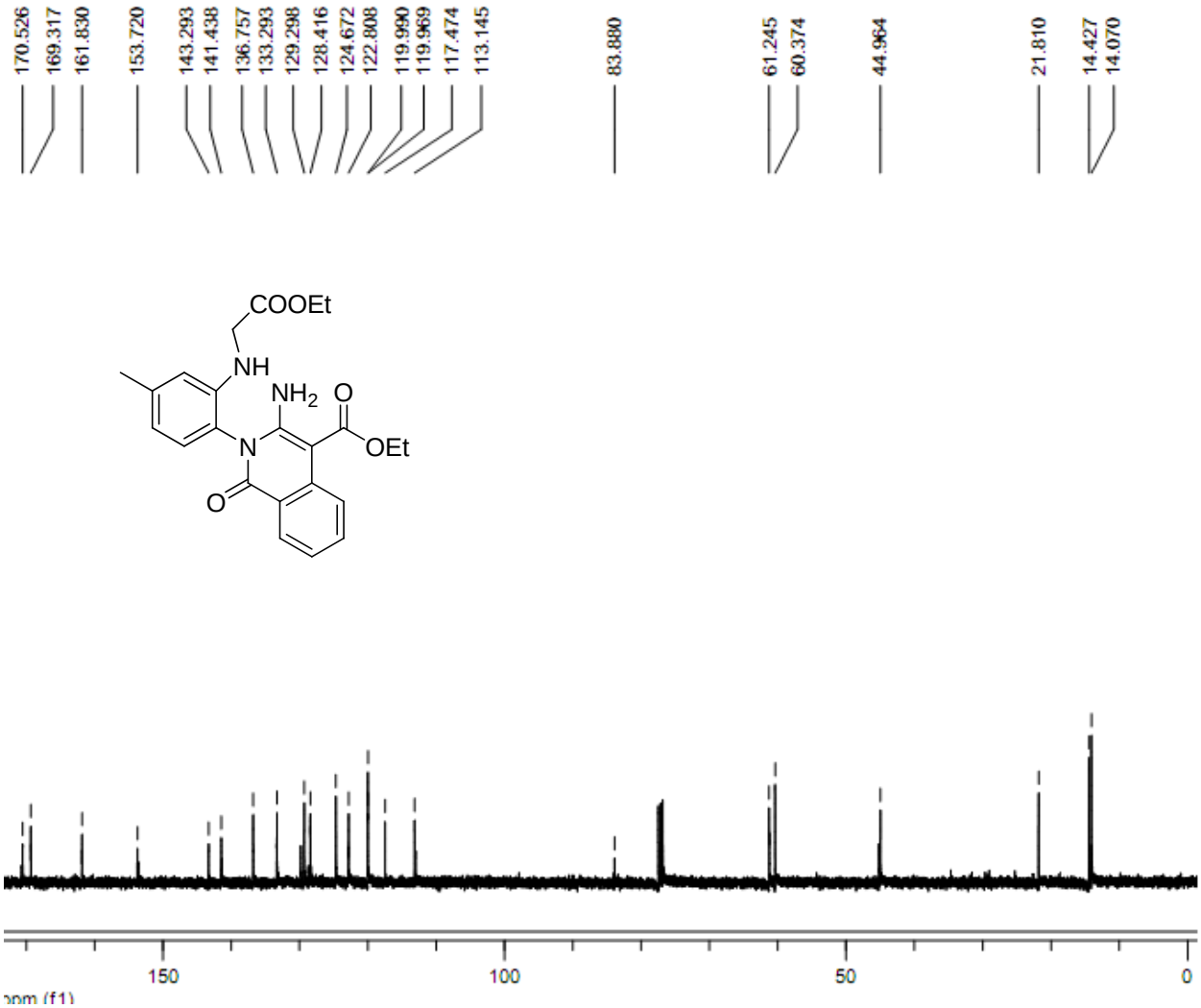

Fig. 52: ^{13}C NMR spectra of compound **3u** ($CDCl_3$, 100 MHz)

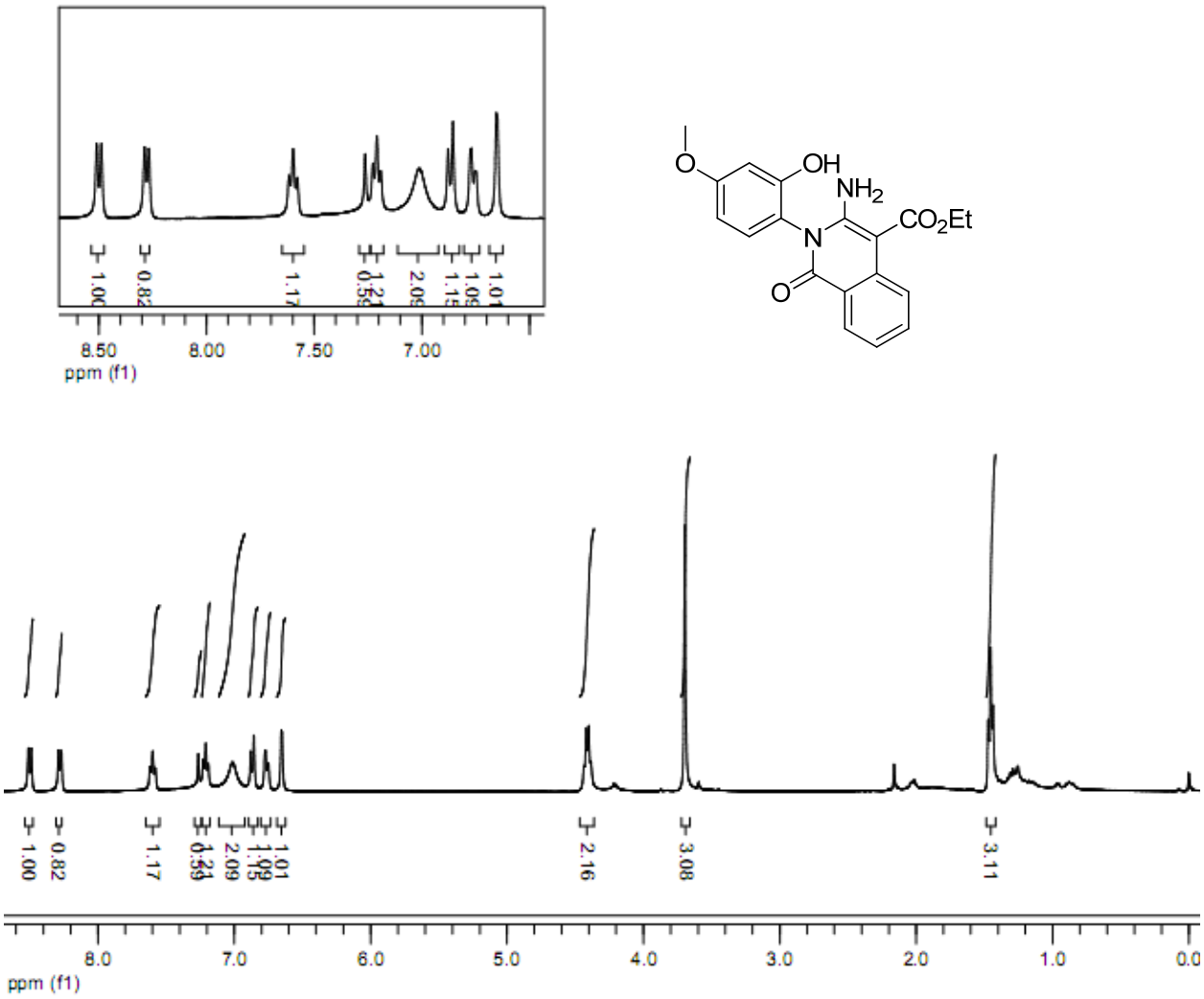

Fig. 53: ^{1}H NMR spectra of compound **3v** ($CDCl_3$, 400 MHz)

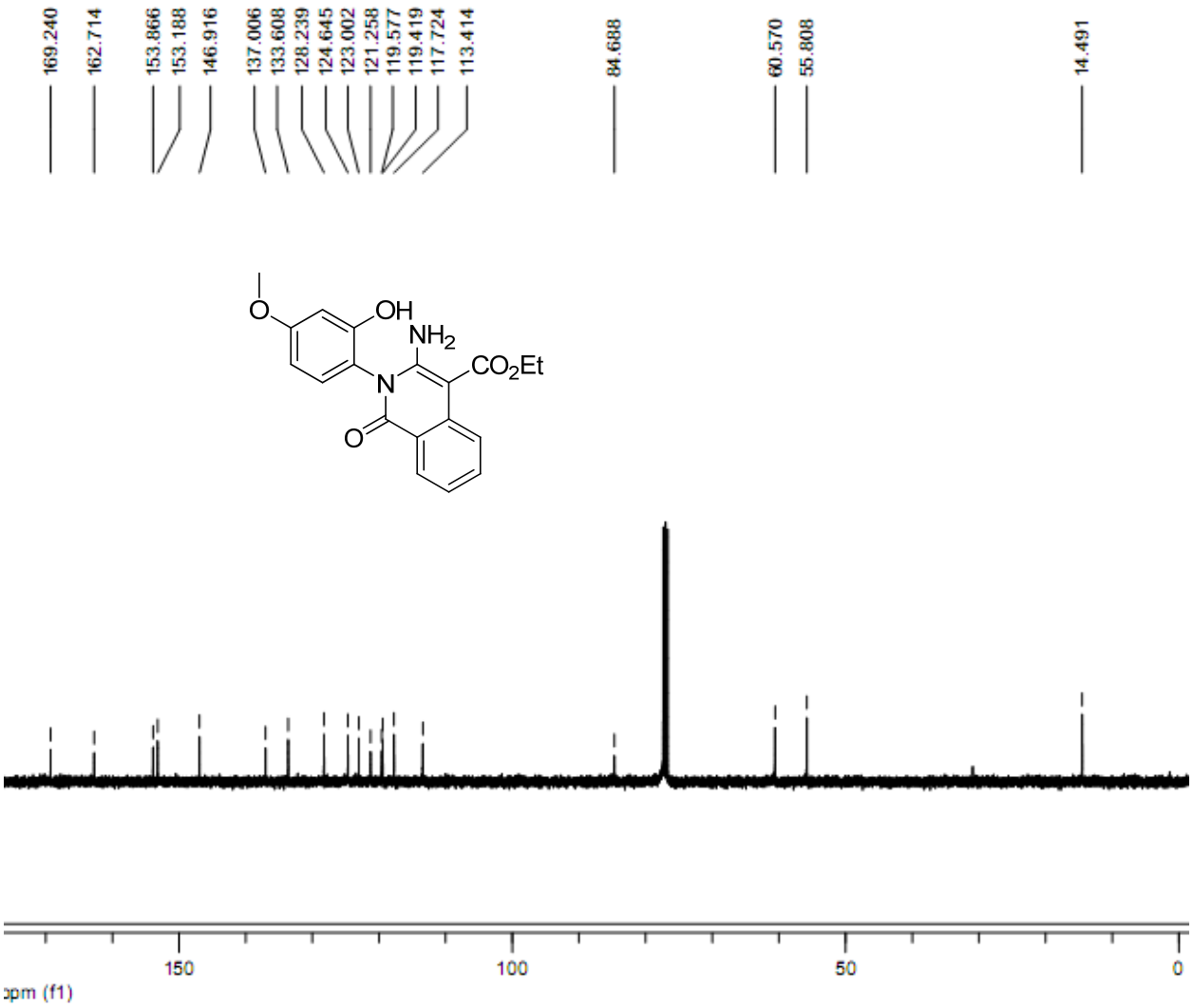

Fig. 54: ^{13}C NMR spectra of compound **3v** ($CDCl_3$, 100 MHz)

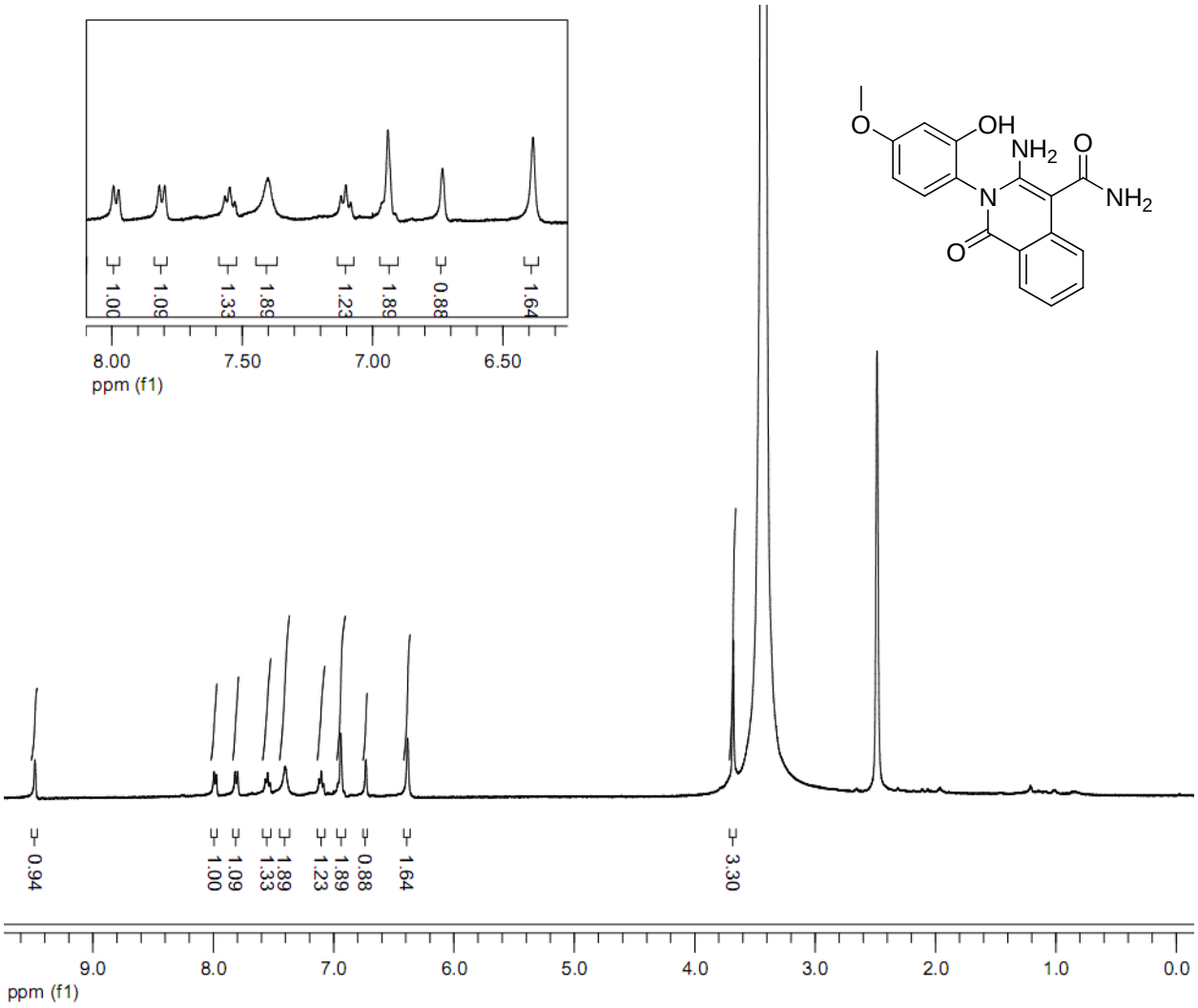

Fig. 55: ^{1}H NMR spectra of compound **3w** (DMSO-d_6, 400 MHz)

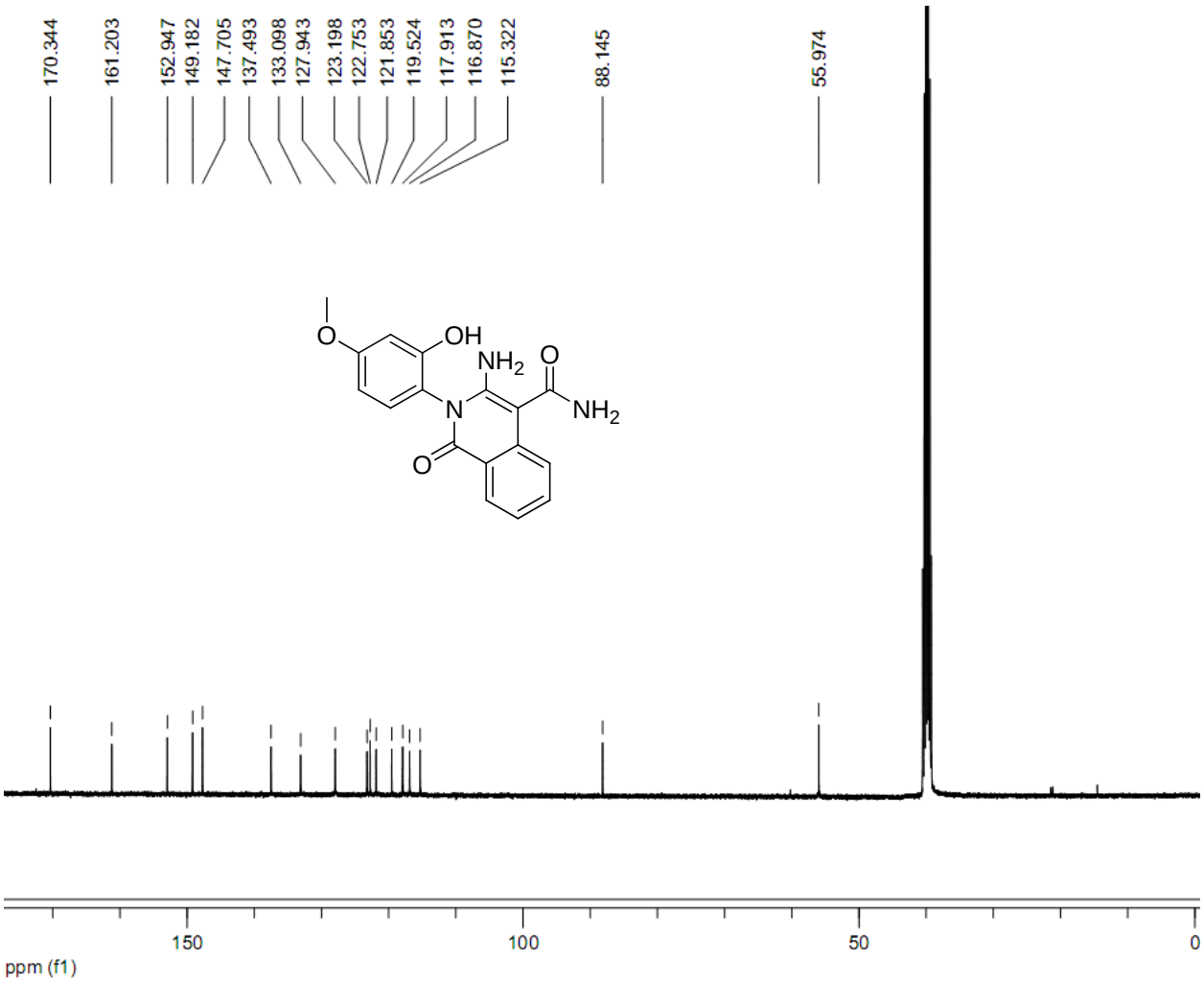

Fig. 56: ^{13}C NMR spectra of compound **3w** (DMSO-d_6, 100 MHz)

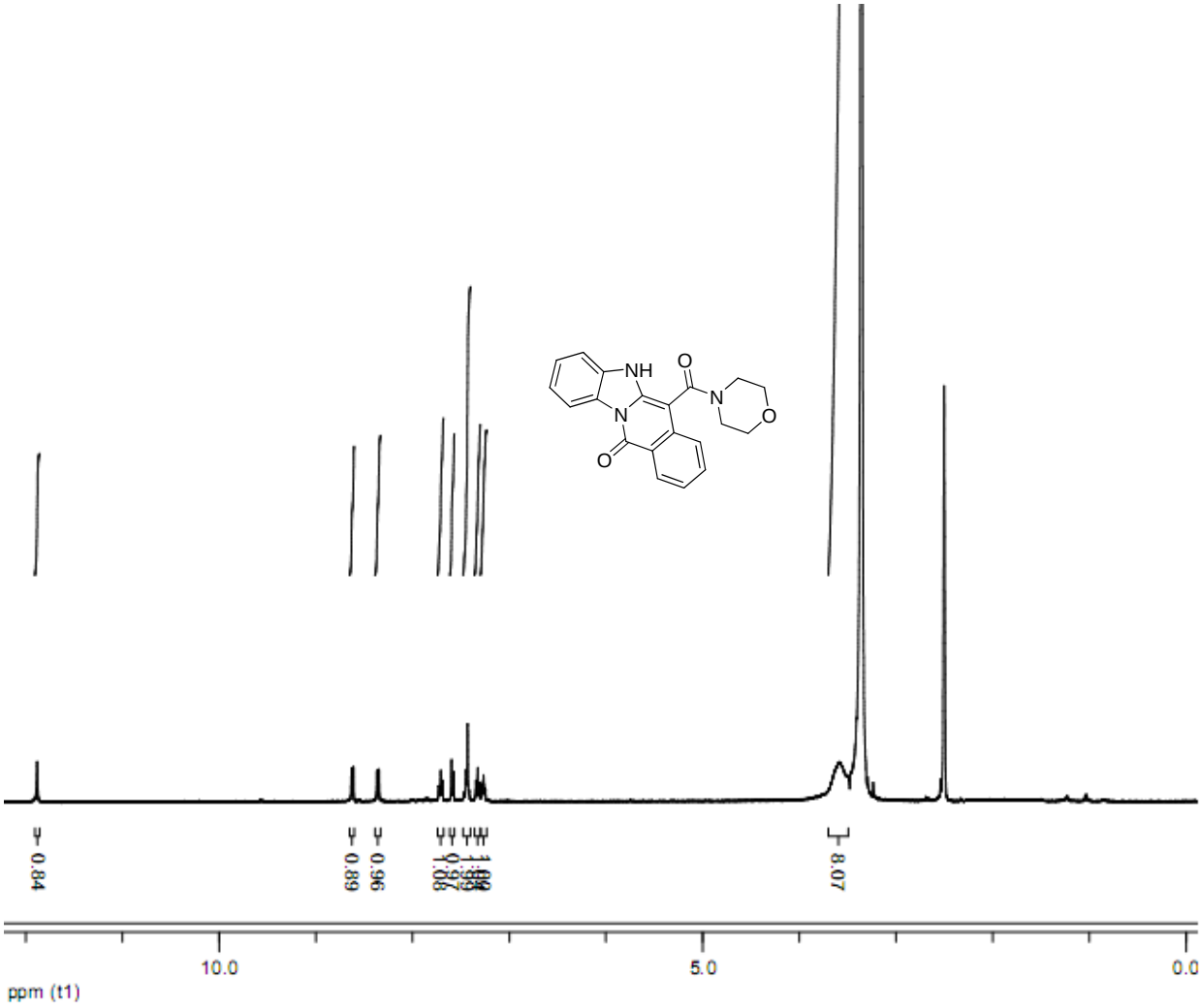

Fig. 57: ^{1}H NMR spectra of compound **4d** (DMSO-d_6, 400 MHz)

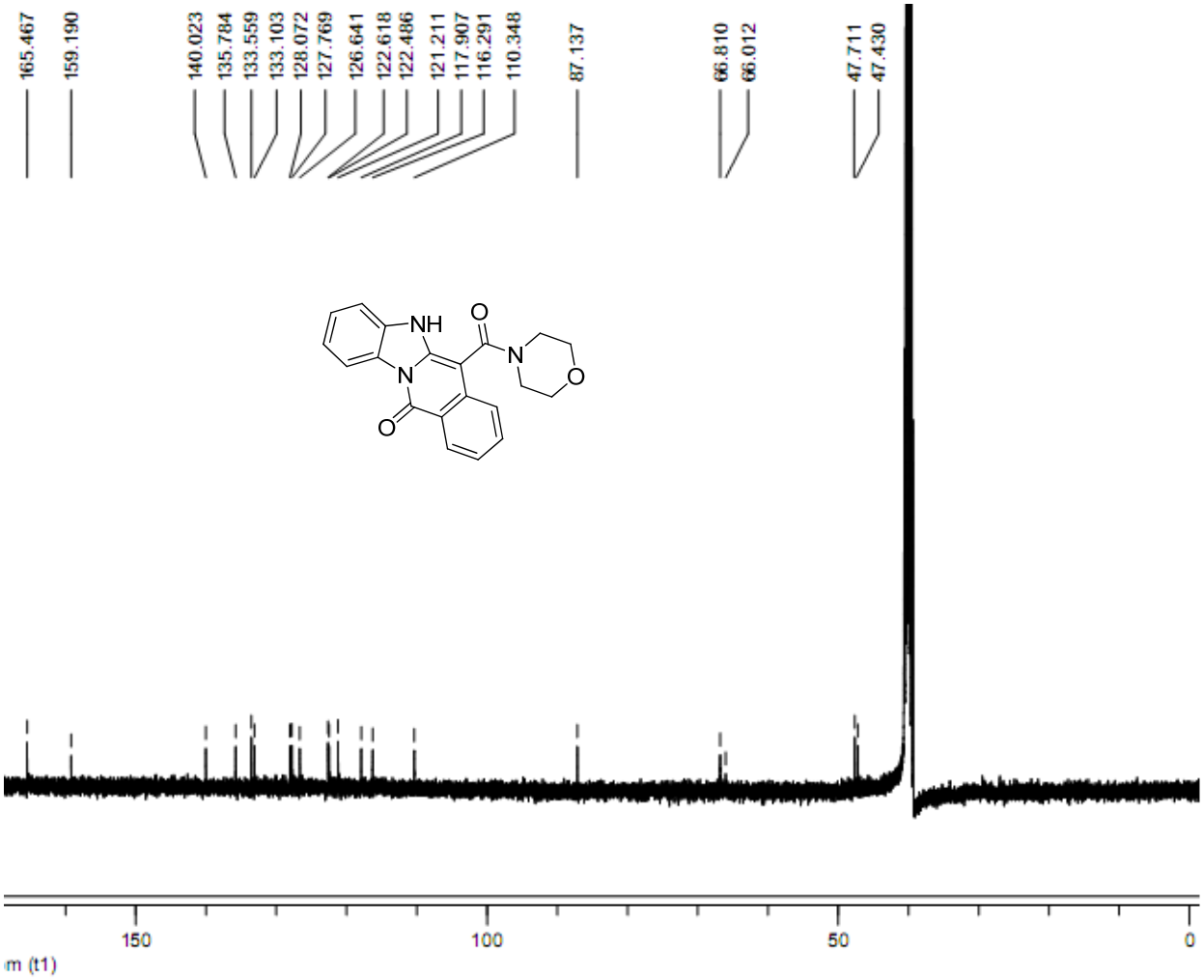

Fig. 58: ^{13}C NMR spectra of compound **4d** (DMSO-d_6, 100 MHz)

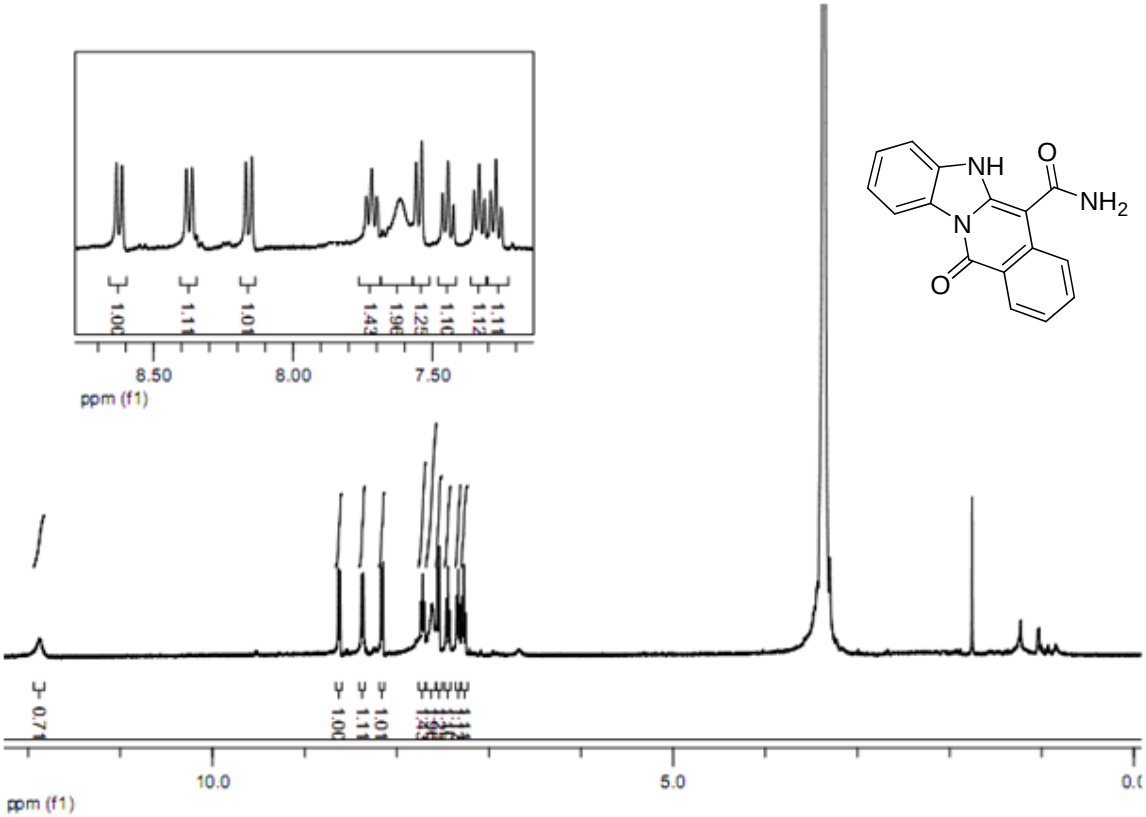

Fig. 59: ^{1}H NMR spectra of compound **4e** (DMSO-d_6, 400 MHz)

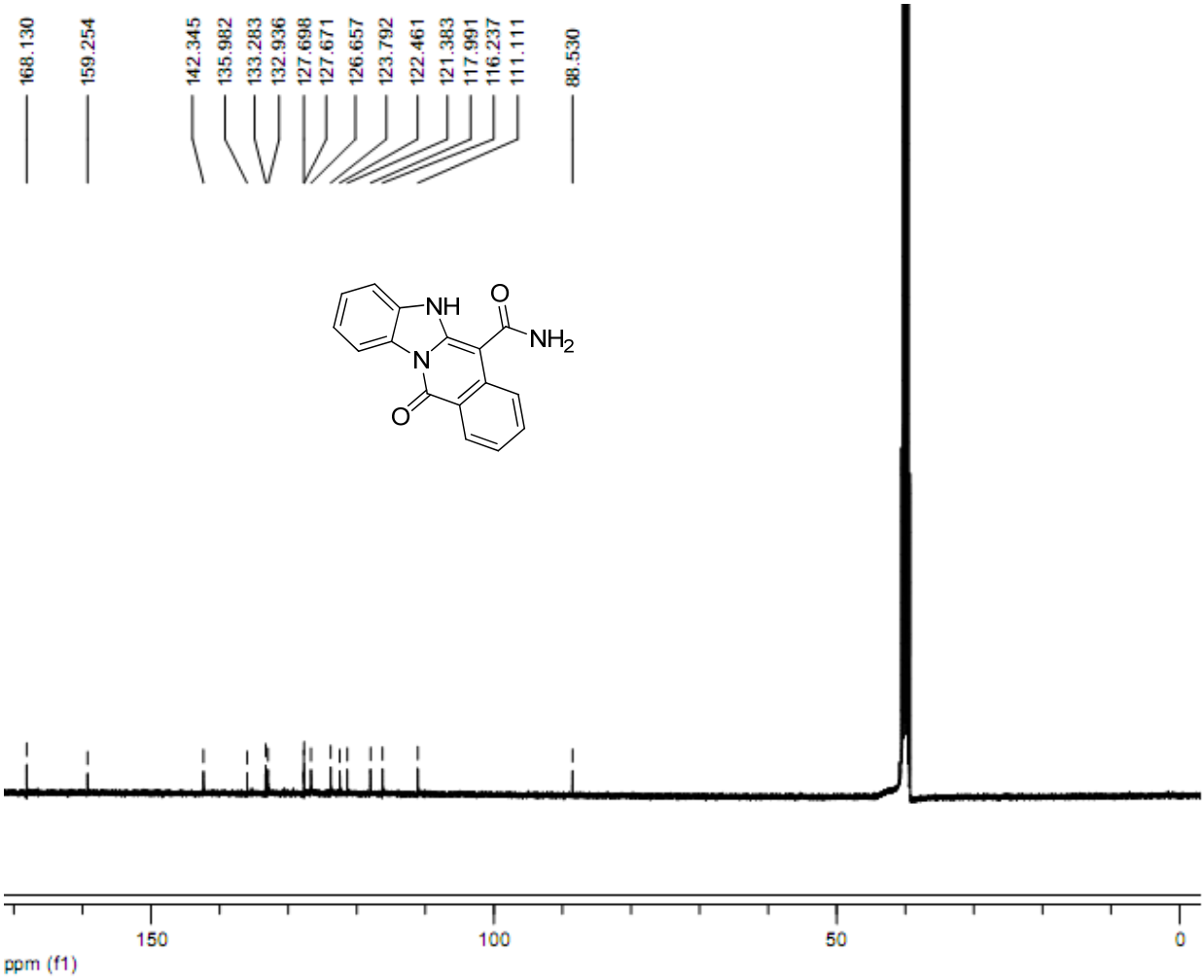

Fig. 60: ^{13}C NMR spectra of compound **4e** (DMSO-d_6, 100 MHz)

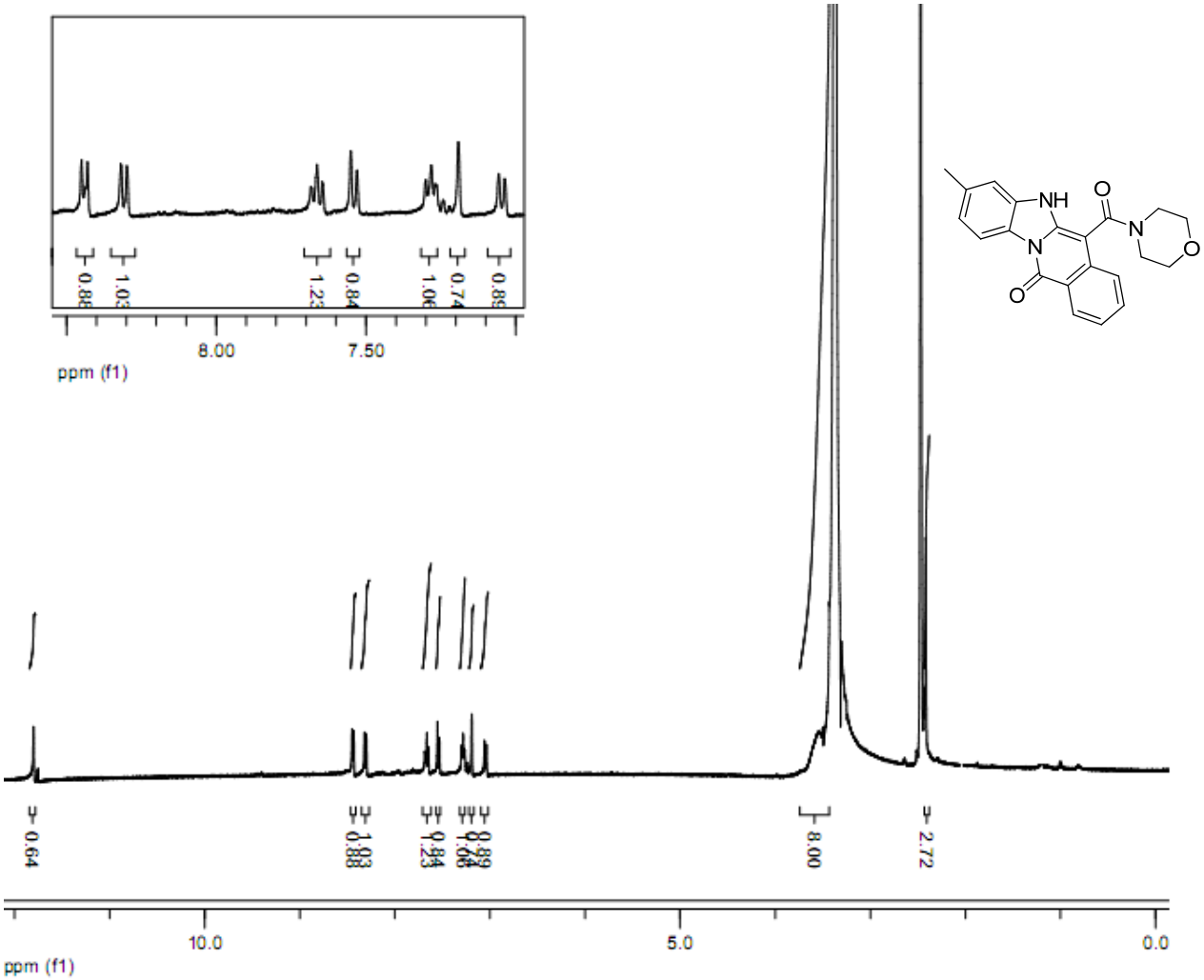

Fig. 61: ^{1}H NMR spectra of compound **4i** (DMSO-d_6, 400 MHz)

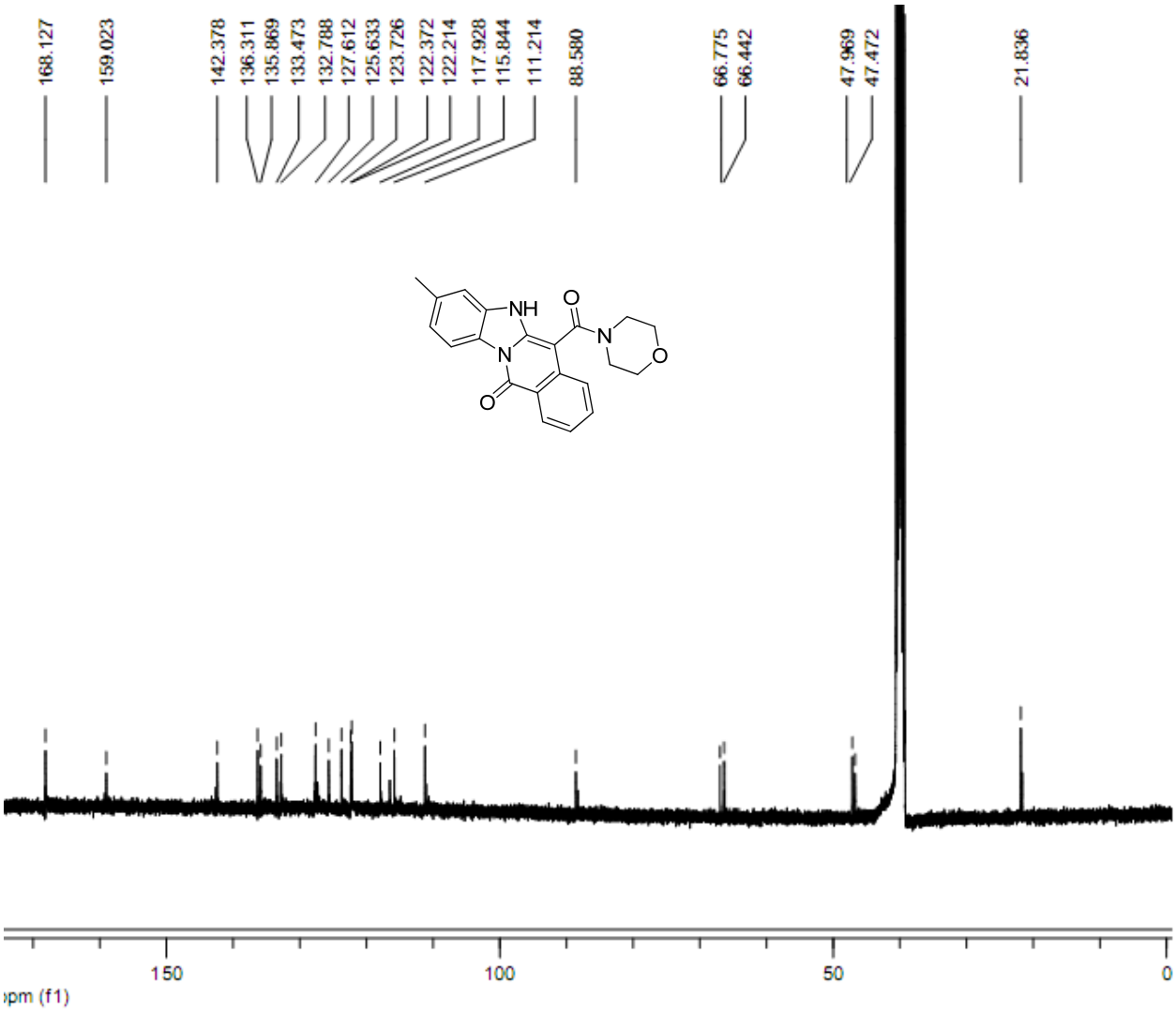

Fig. 62: ^{13}C NMR spectra of compound **4i** (DMSO-d_6, 100 MHz)

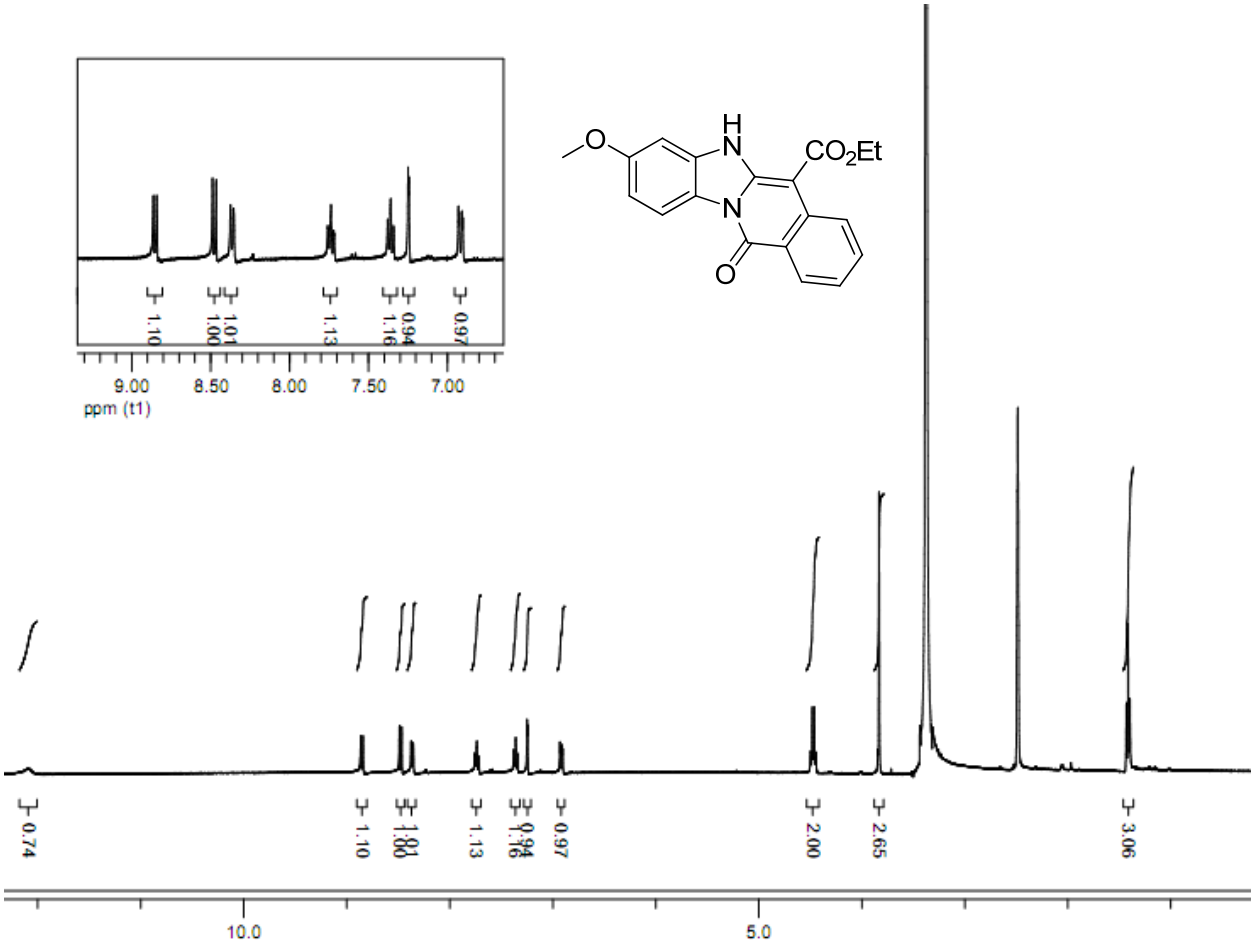

Fig. 63: ^{1}H NMR spectra of compound **4j** (DMSO-d_6, 400 MHz)

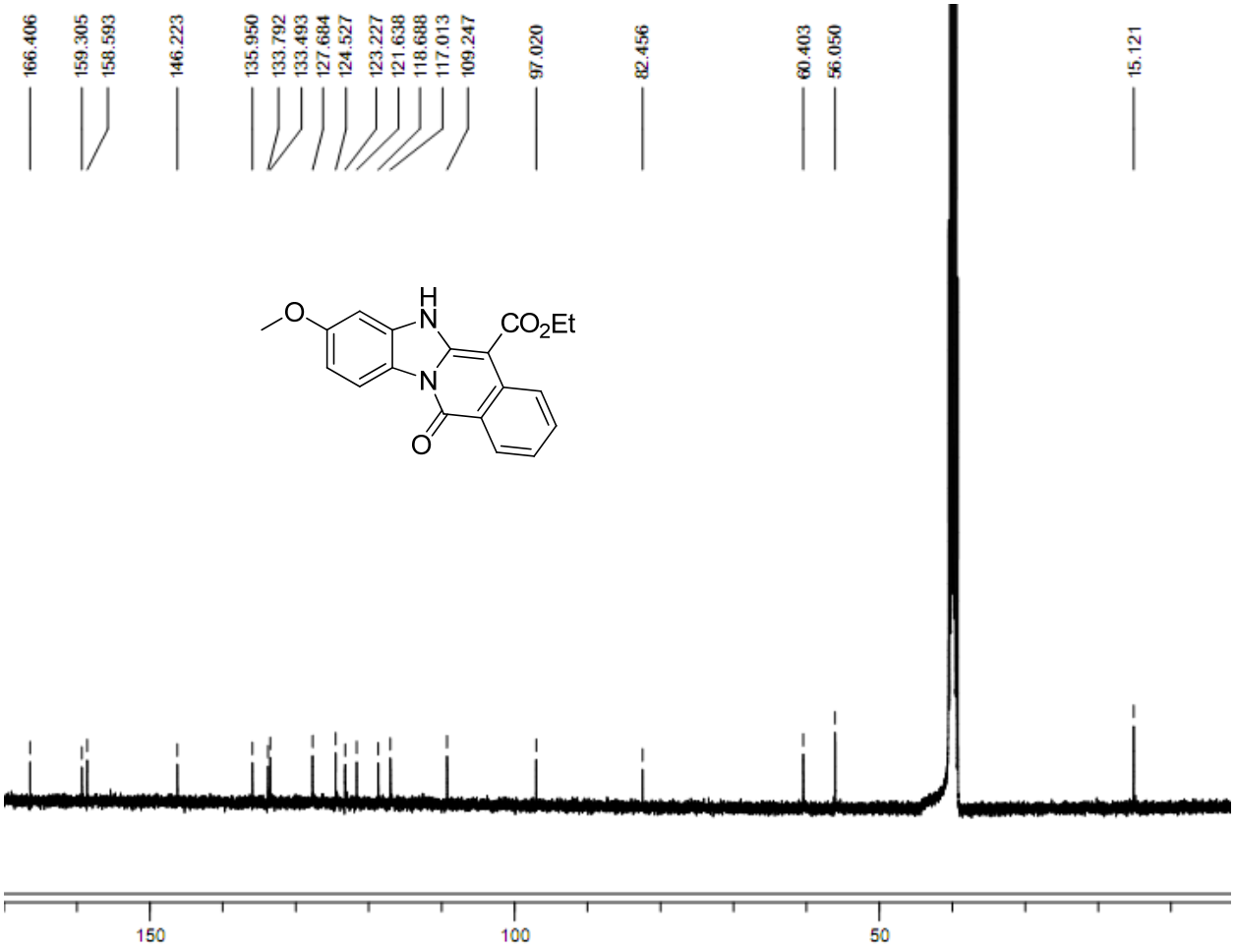

Fig. 64: ^{13}C NMR spectra of compound **4j** (DMSO-d_6, 100 MHz)

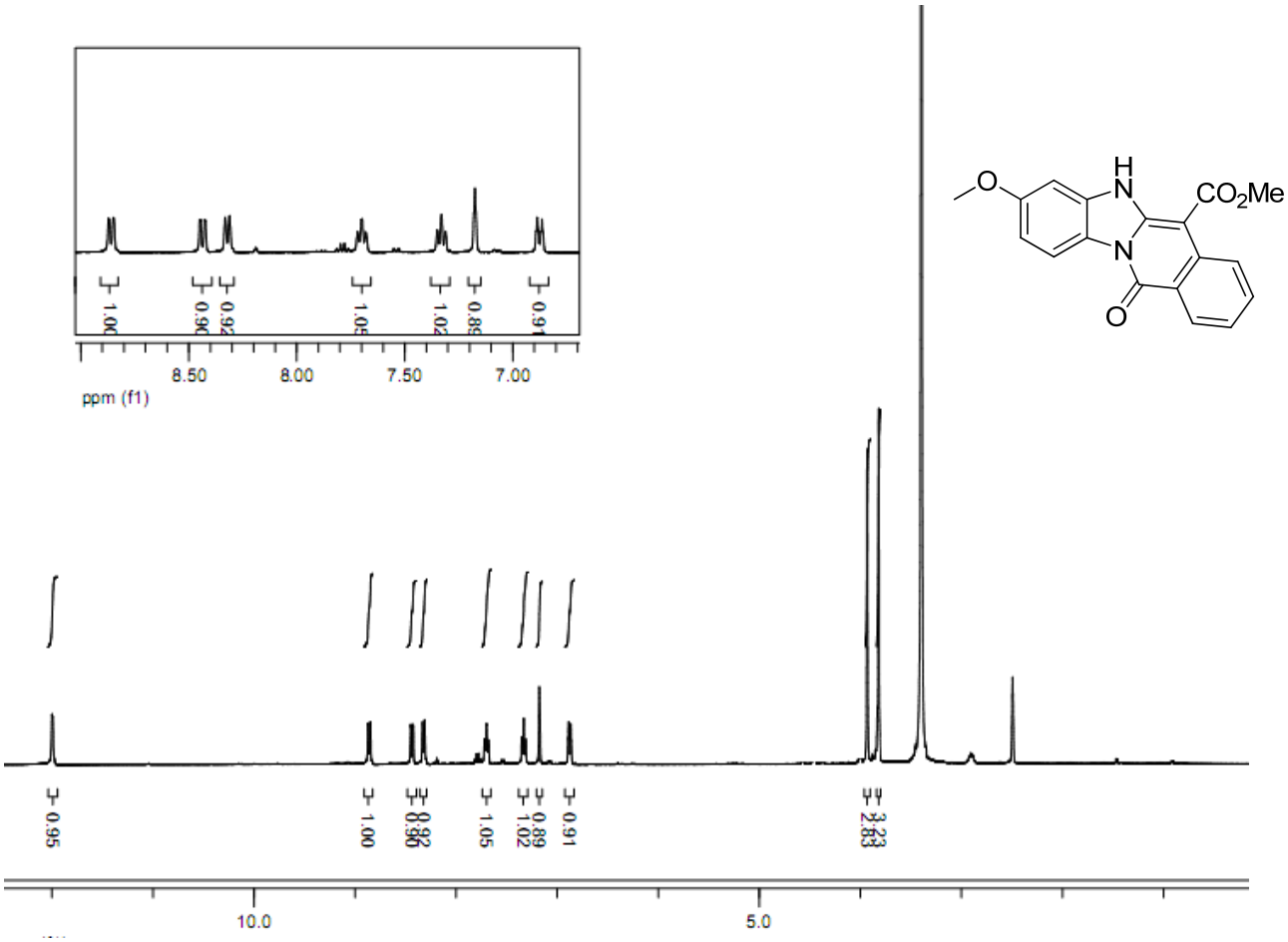

Fig. 65: ^{1}H NMR spectra of compound **4k** (DMSO-d_6, 400 MHz)

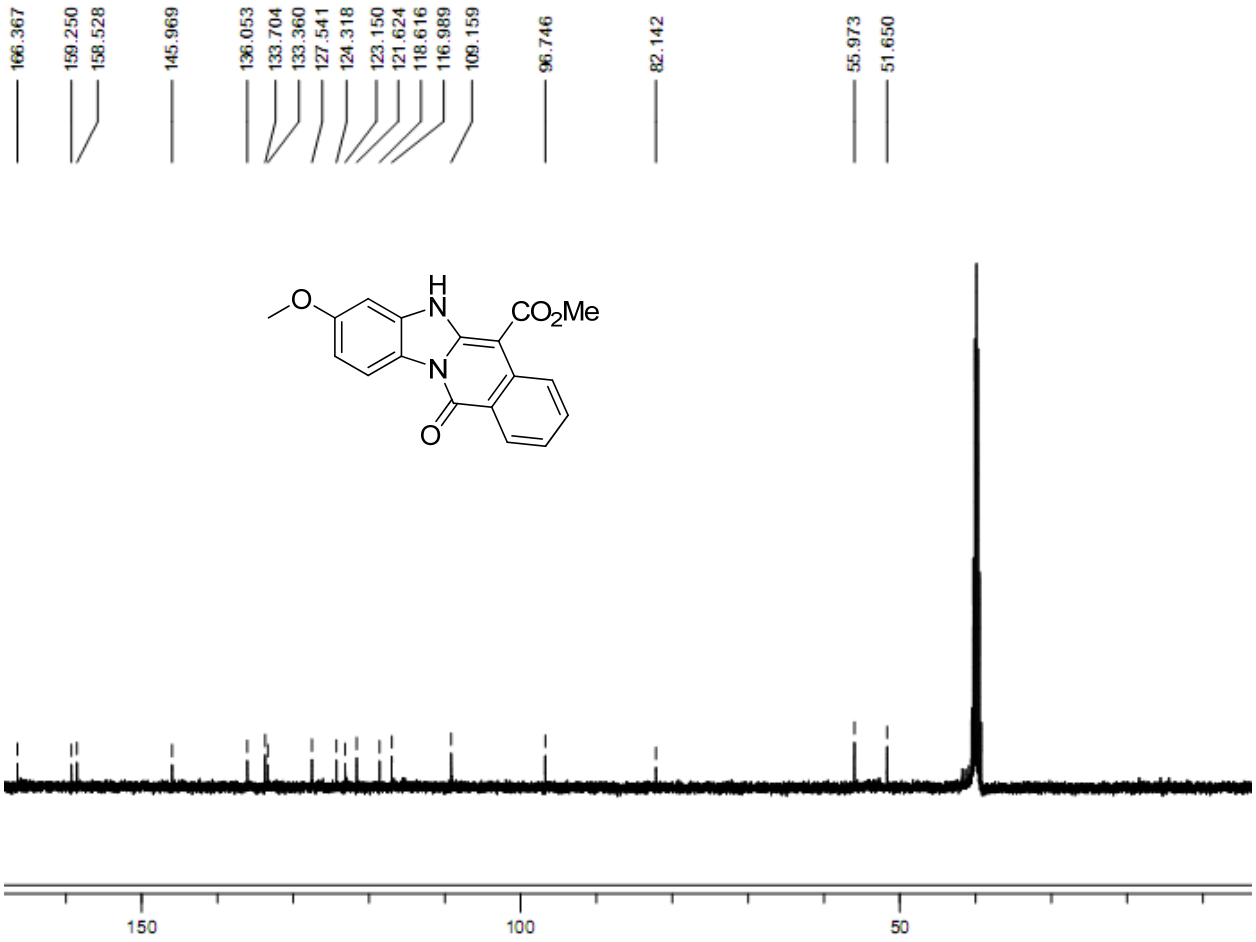

Fig. 66: ^{13}C NMR spectra of compound **4k** (DMSO-d_6, 100 MHz)

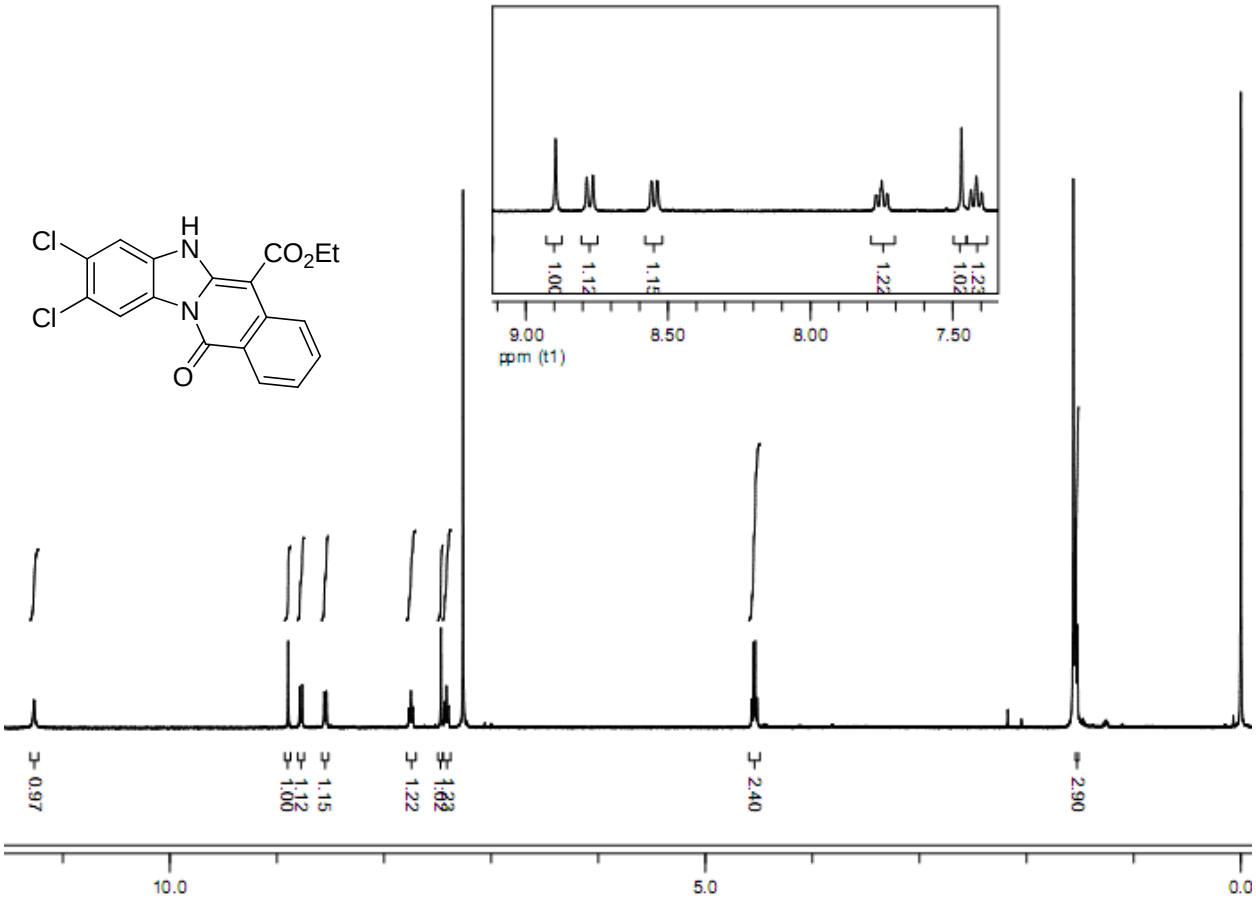

Fig. 67: ^{1}H NMR spectra of compound **4l** ($CDCl_3$, 400 MHz)

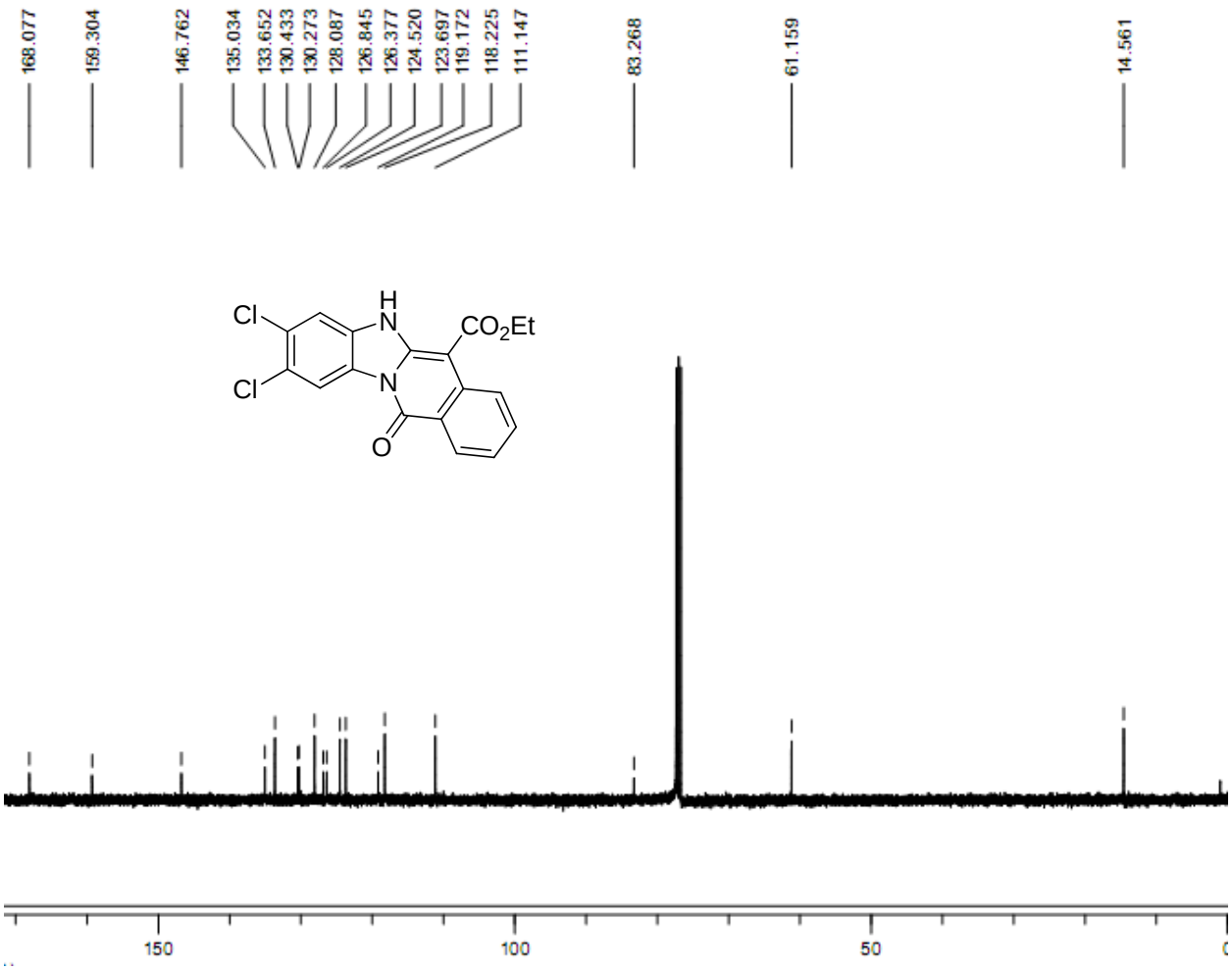

Fig. 68: ^{13}C NMR spectra of compound **4l** ($CDCl_3$, 100 MHz)

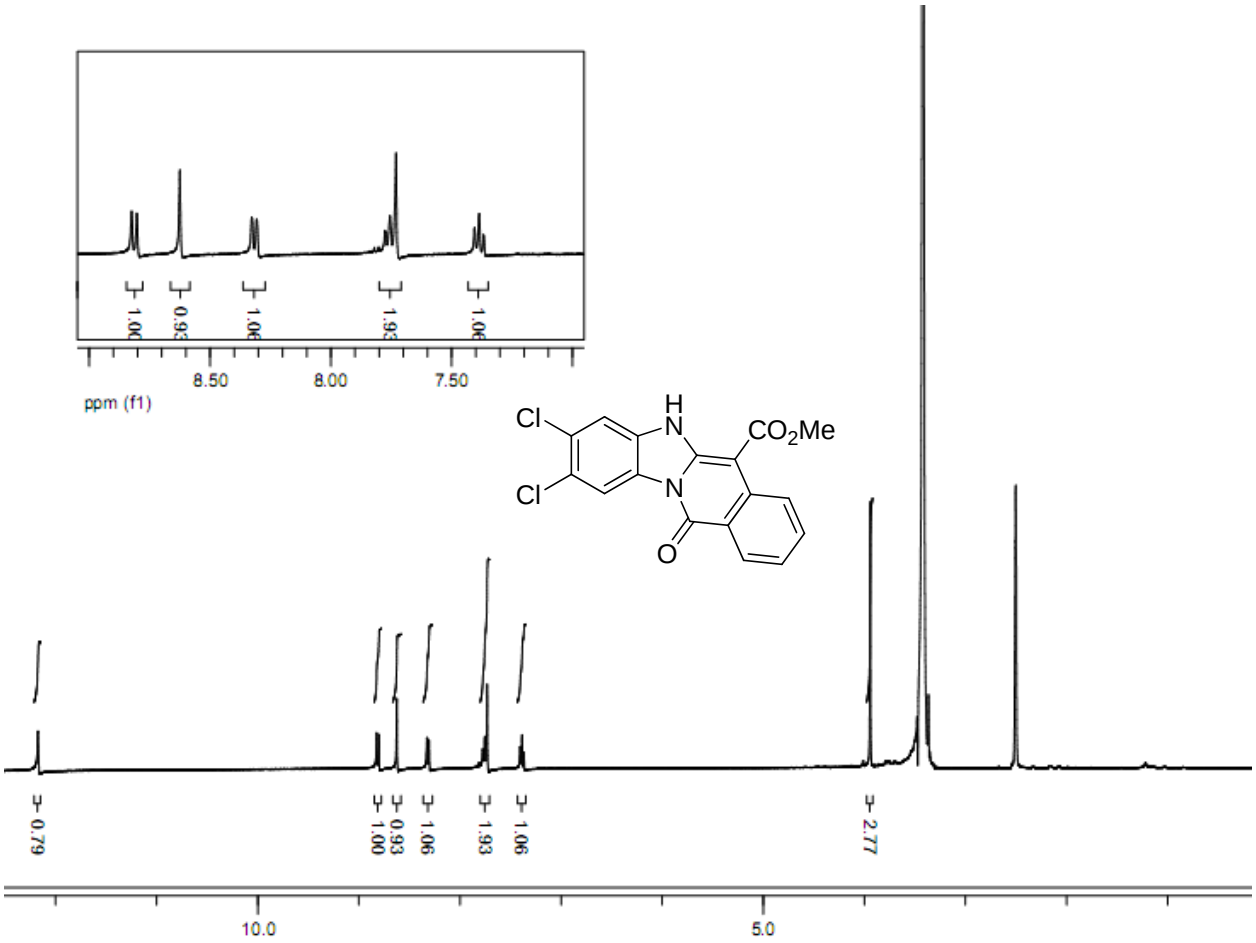

Fig. 69: ^{1}H NMR spectra of compound **4m** (DMSO-d_6, 400 MHz)

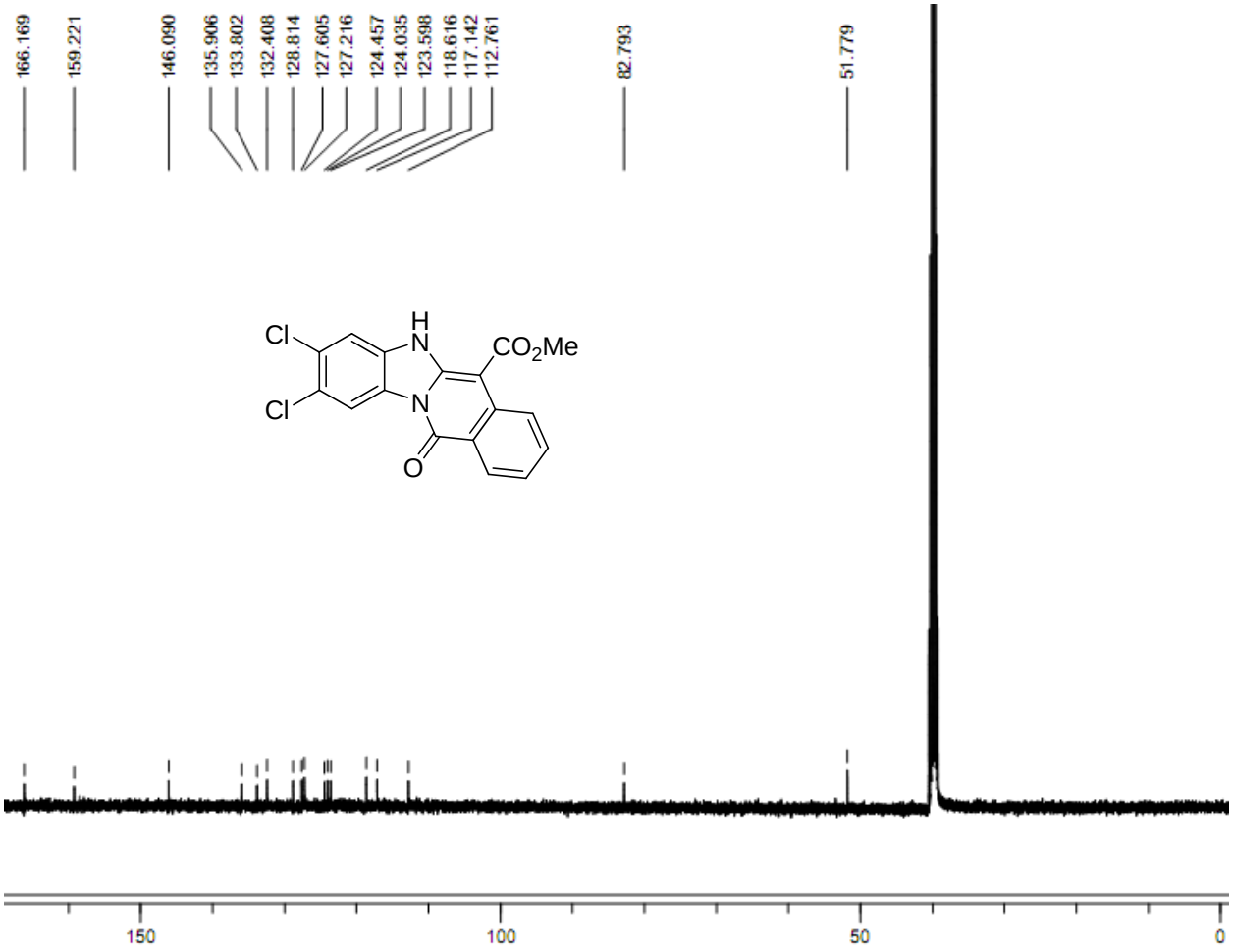

Fig. 70: ^{13}C NMR spectra of compound **4m** (DMSO-d_6, 100 MHz)

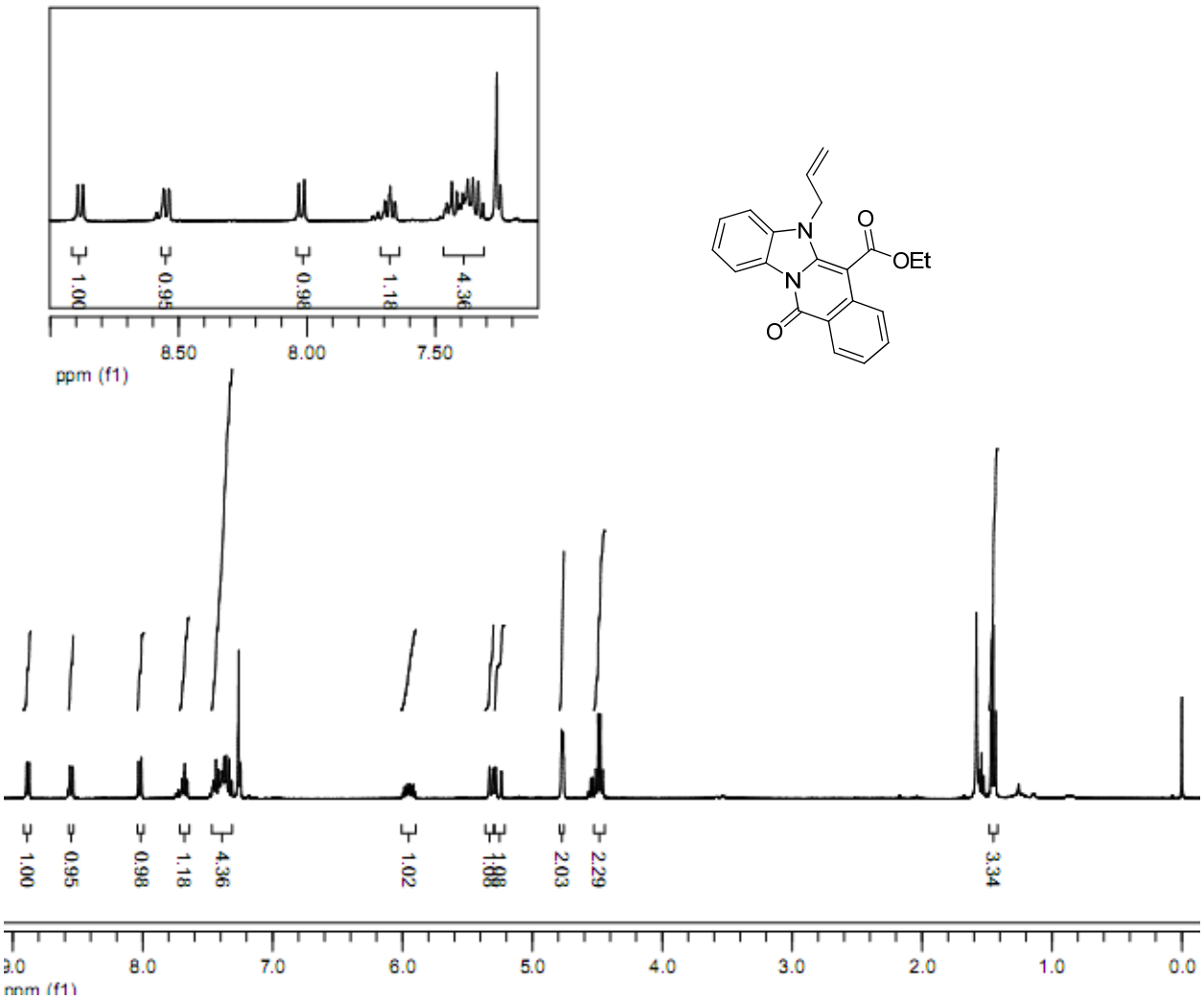

Fig. 71: ^{1}H NMR spectra of compound **4n** ($CDCl_3$, 400 MHz)

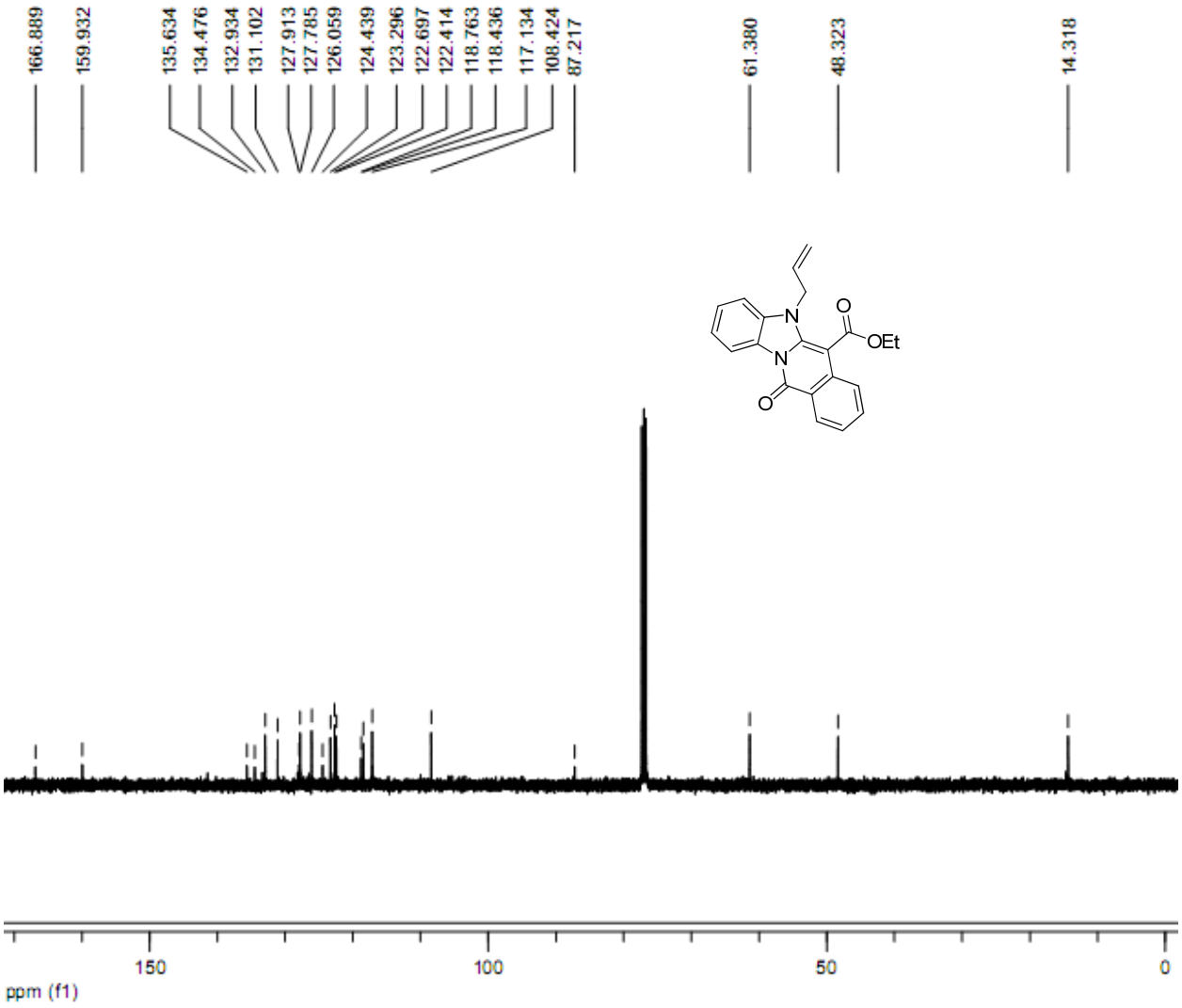

Fig. 72: ^{13}C NMR spectra of compound **4n** ($CDCl_3$, 100 MHz)

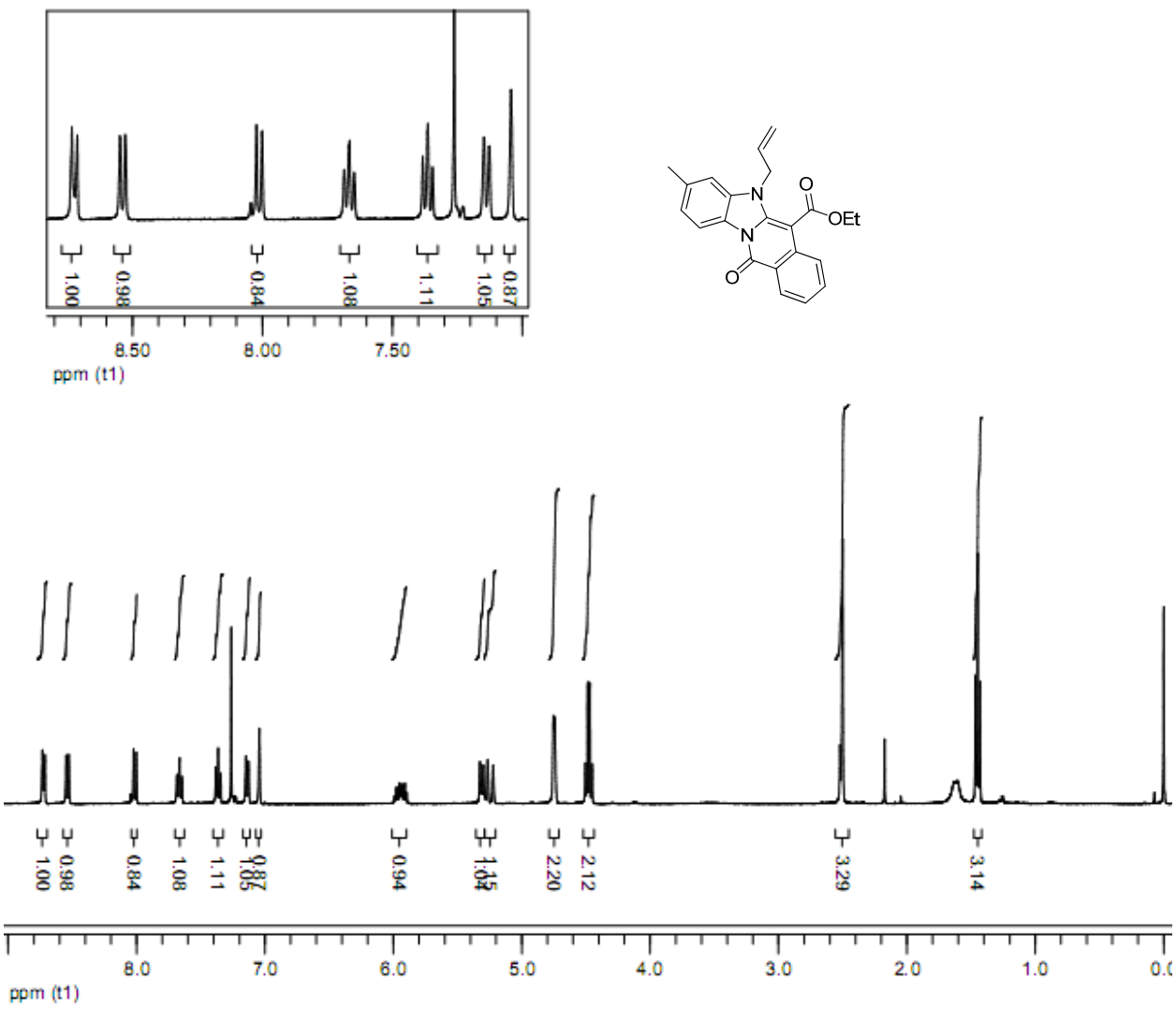

Fig. 73: ^{1}H NMR spectra of compound **4o** ($CDCl_3$, 400 MHz)

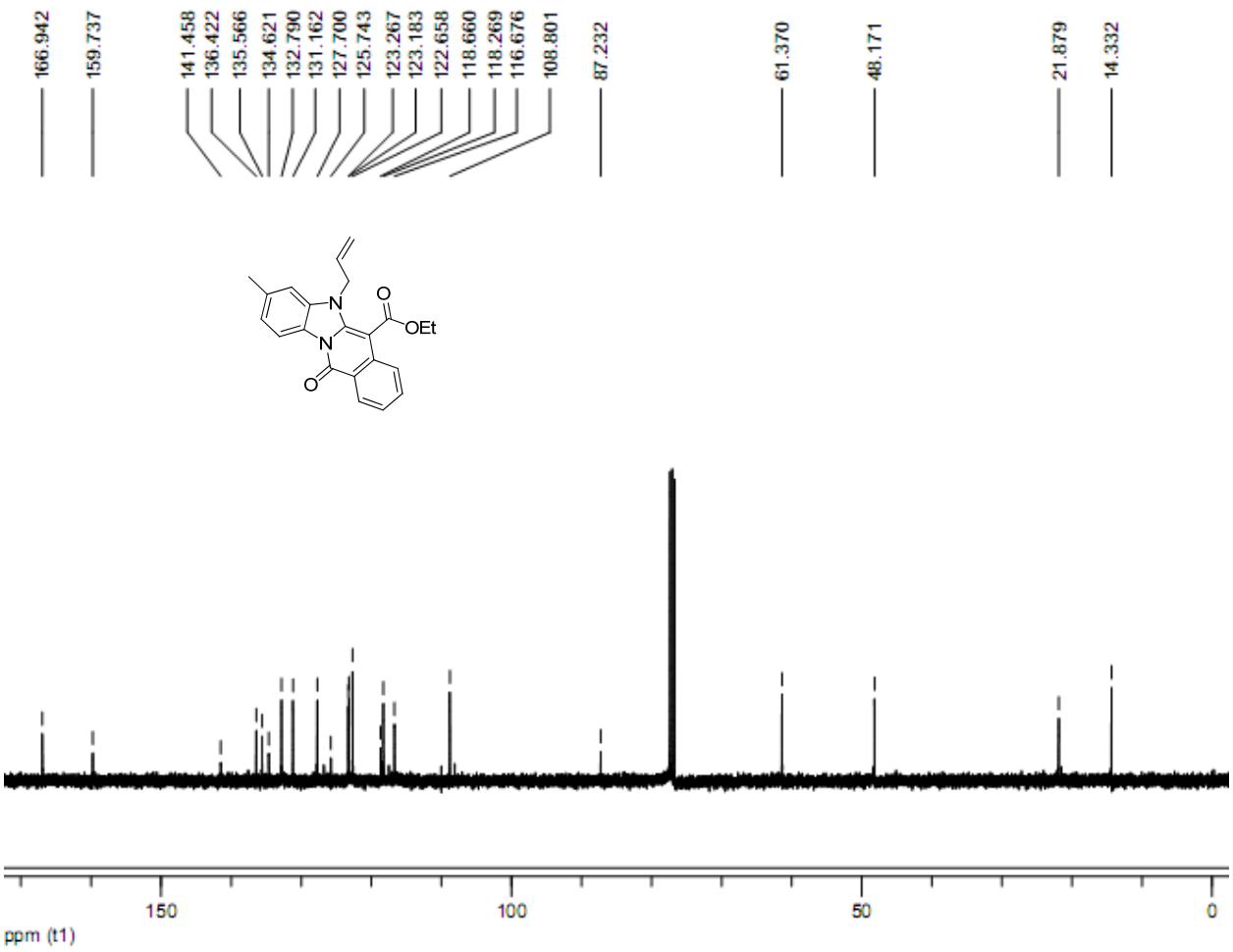

Fig. 74: ^{13}C NMR spectra of compound **4o** ($CDCl_3$, 100 MHz)

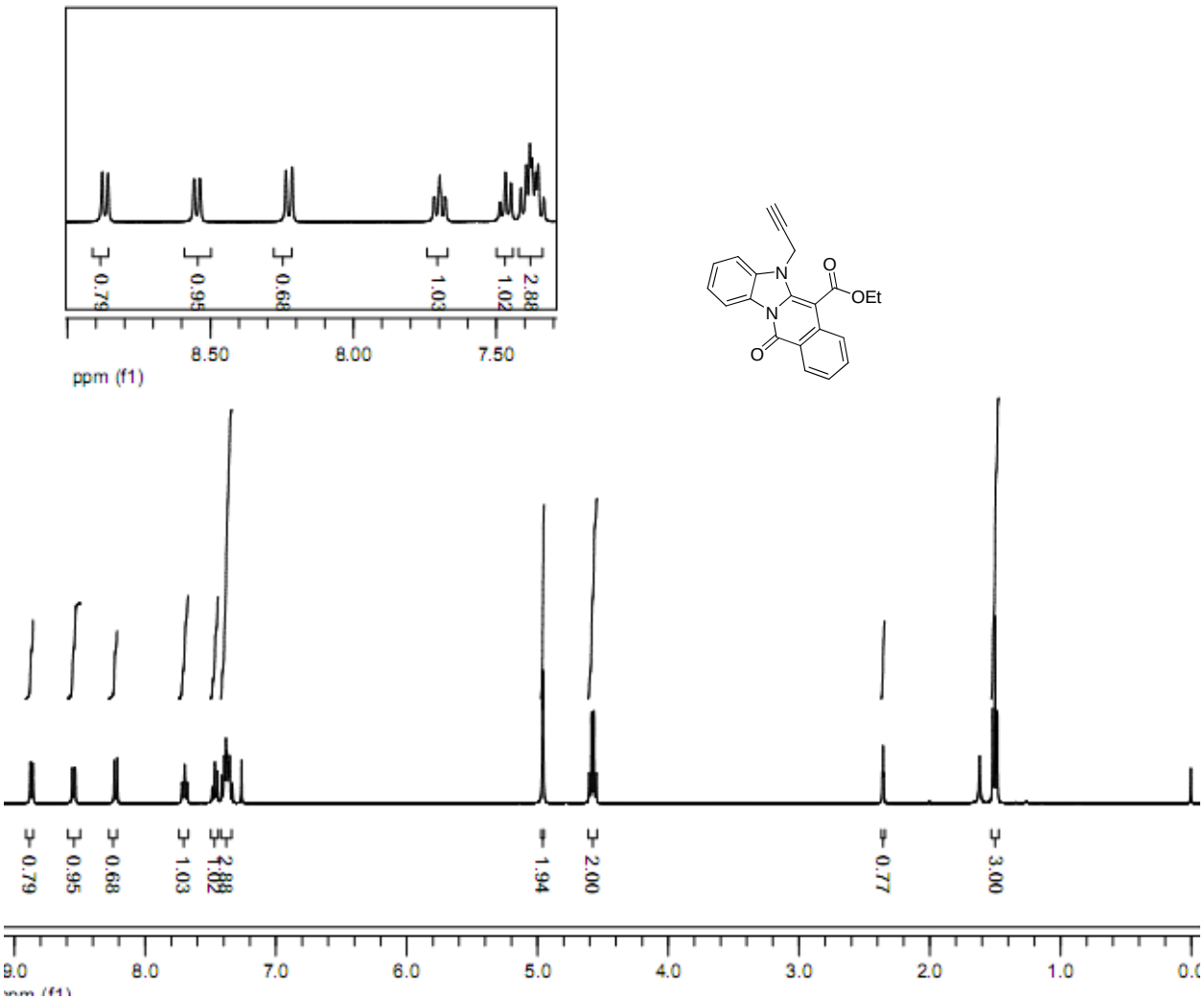

Fig. 75: ^{1}H NMR spectra of compound **4p** ($CDCl_3$, 400 MHz)

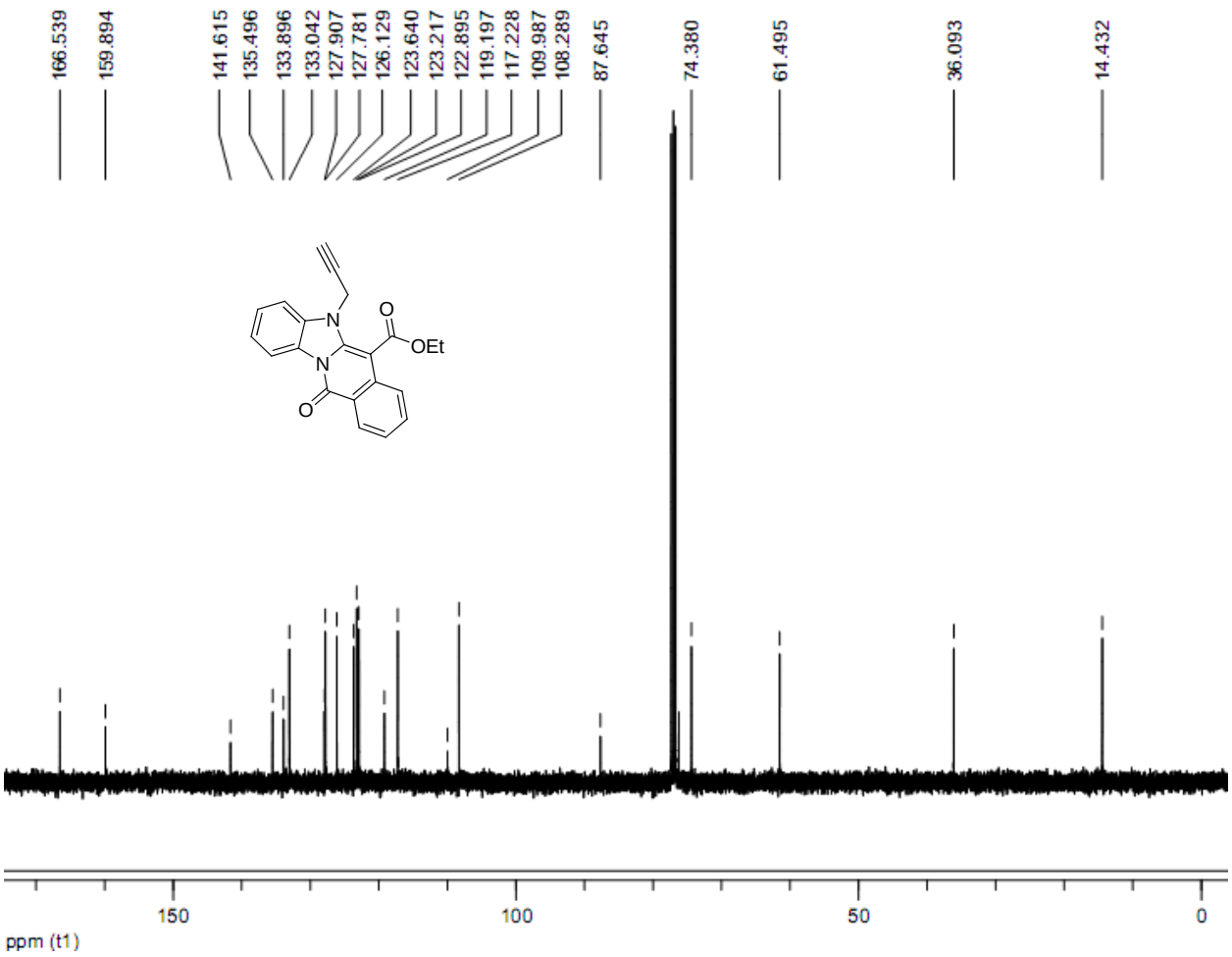

Fig. 76: ^{13}C NMR spectra of compound **4p** ($CDCl_3$, 100 MHz)

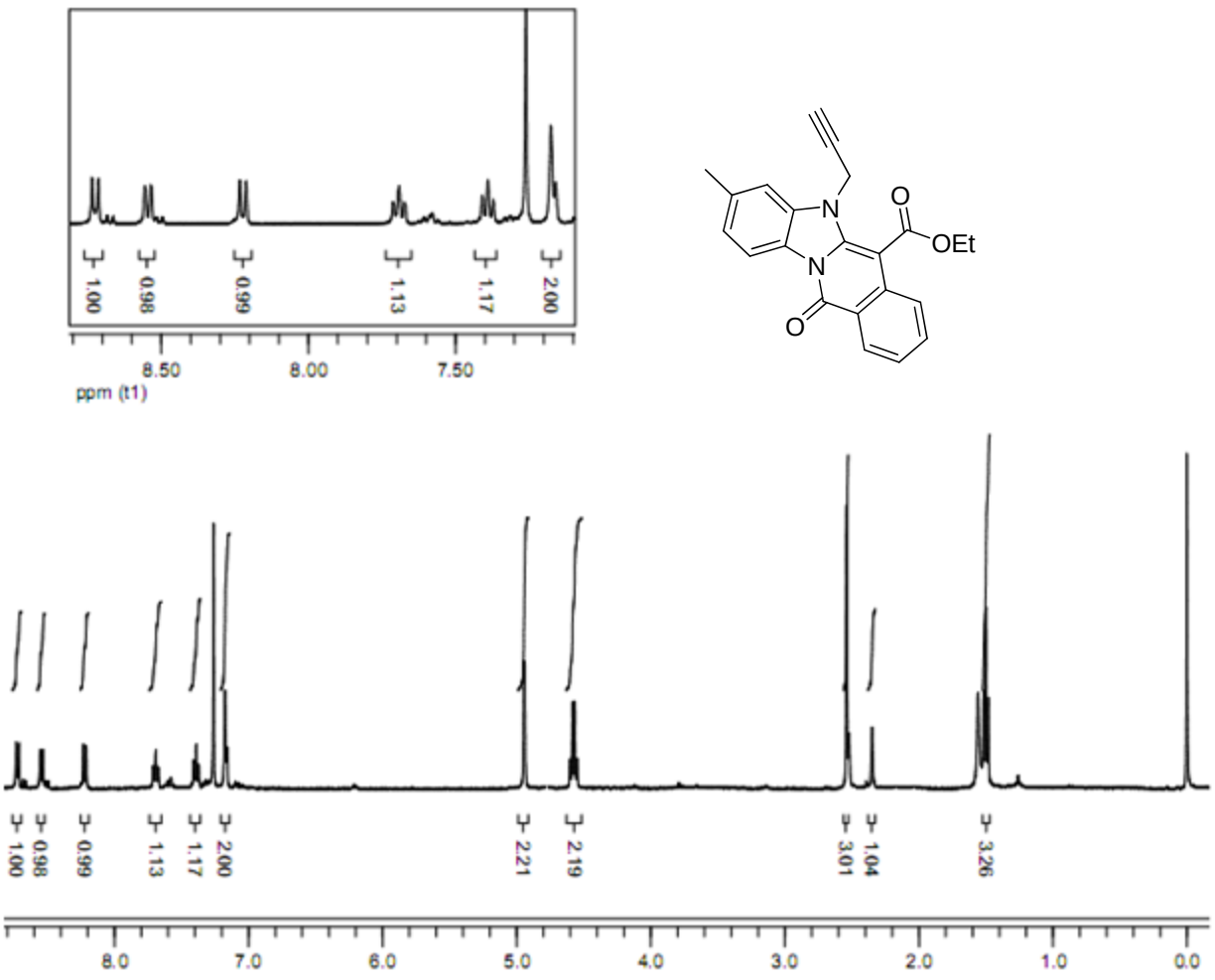

Fig. 77: ^{1}H NMR spectra of compound **4q** ($CDCl_3$, 400 MHz)

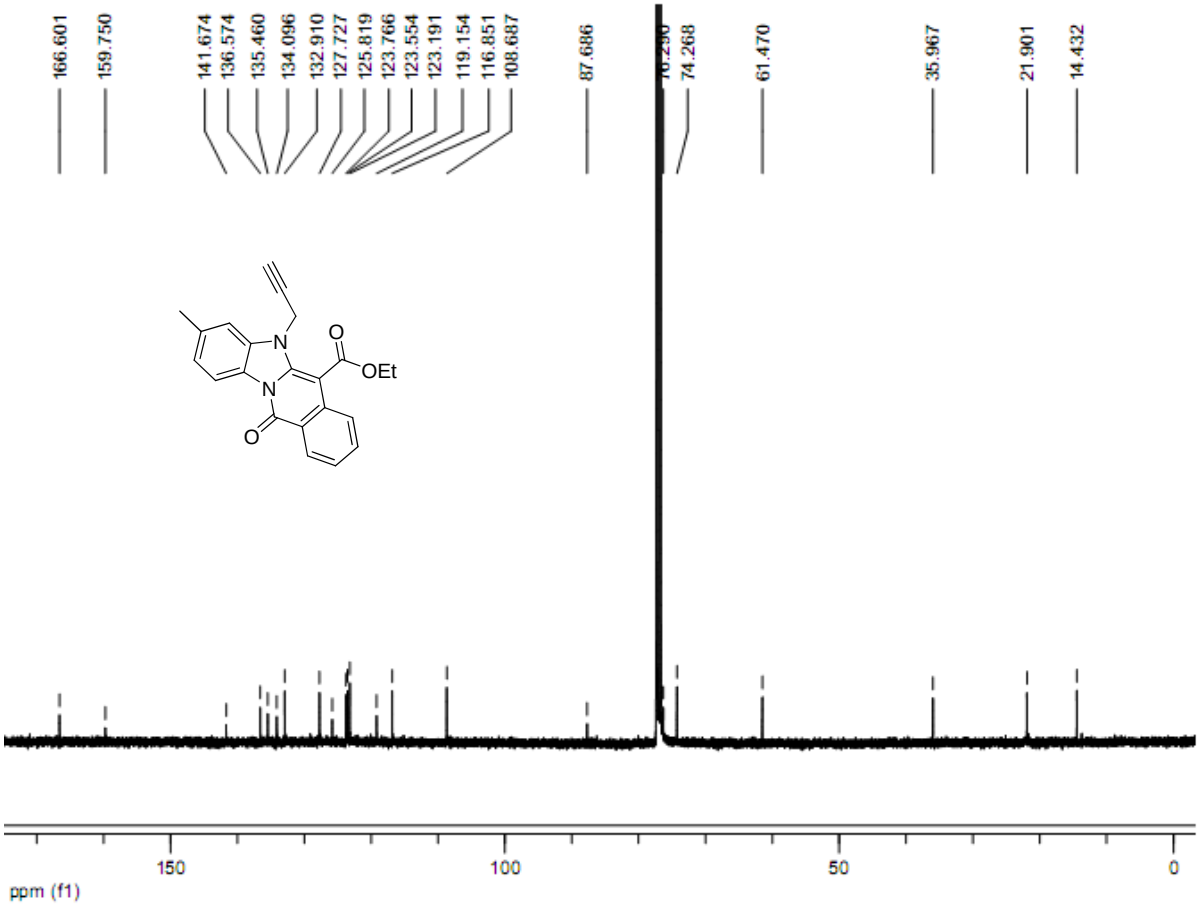

Fig. 78: ^{13}C NMR spectra of compound **4q** ($CDCl_3$, 100 MHz)

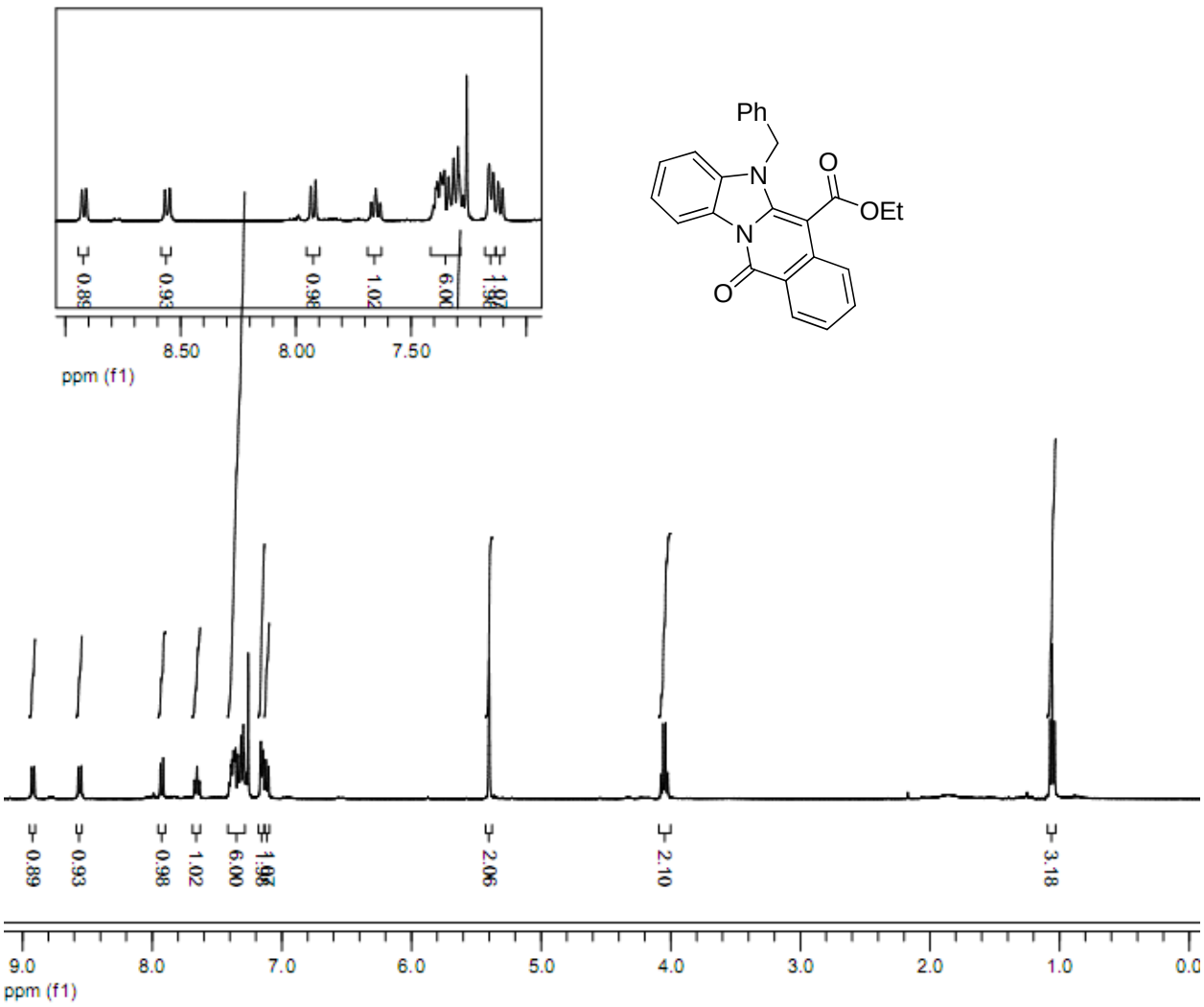

Fig. 79: ^{1}H NMR spectra of compound **4r** ($CDCl_3$, 400 MHz)

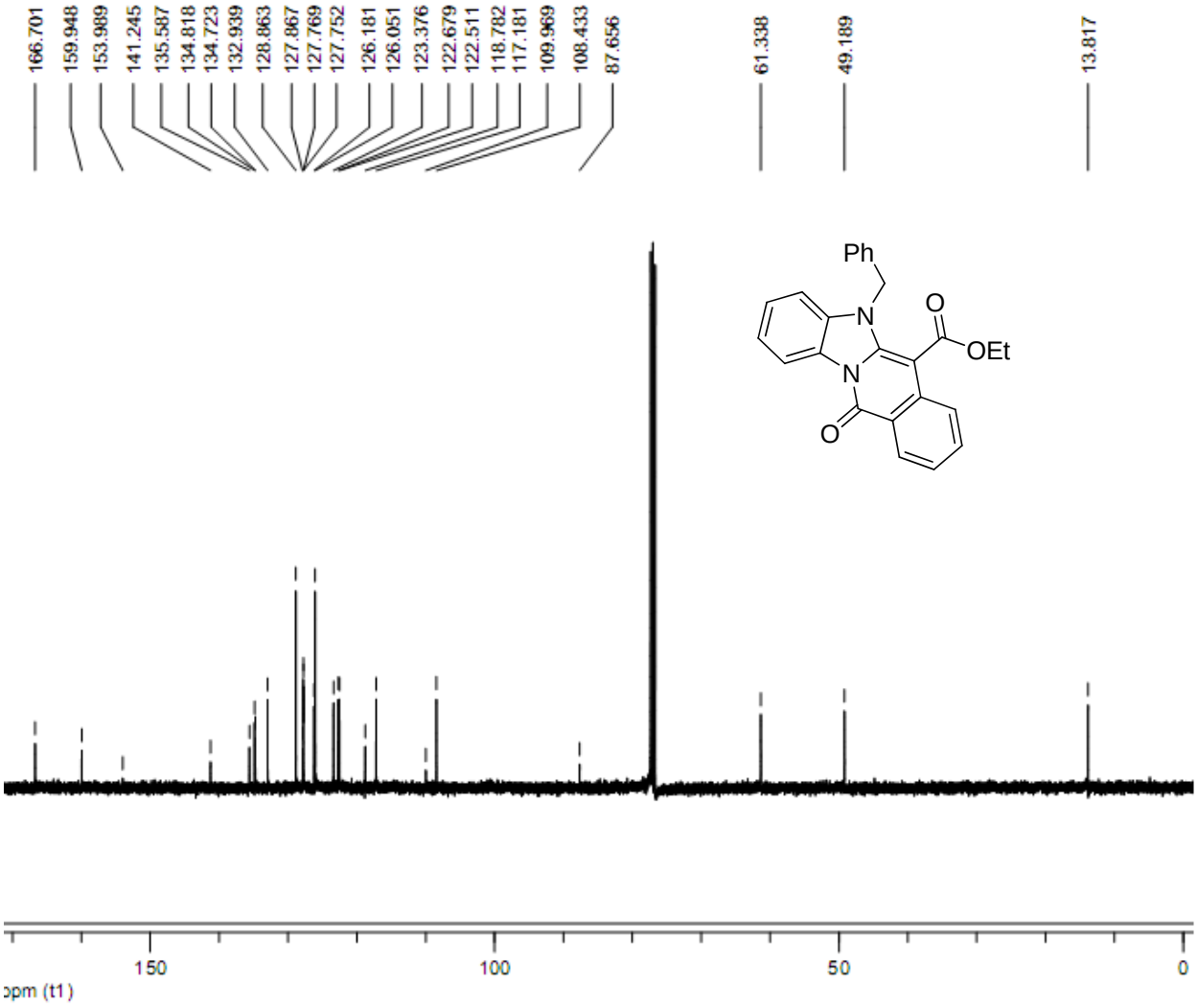

Fig. 80: ^{13}C NMR spectra of compound **4r** ($CDCl_3$, 100 MHz)

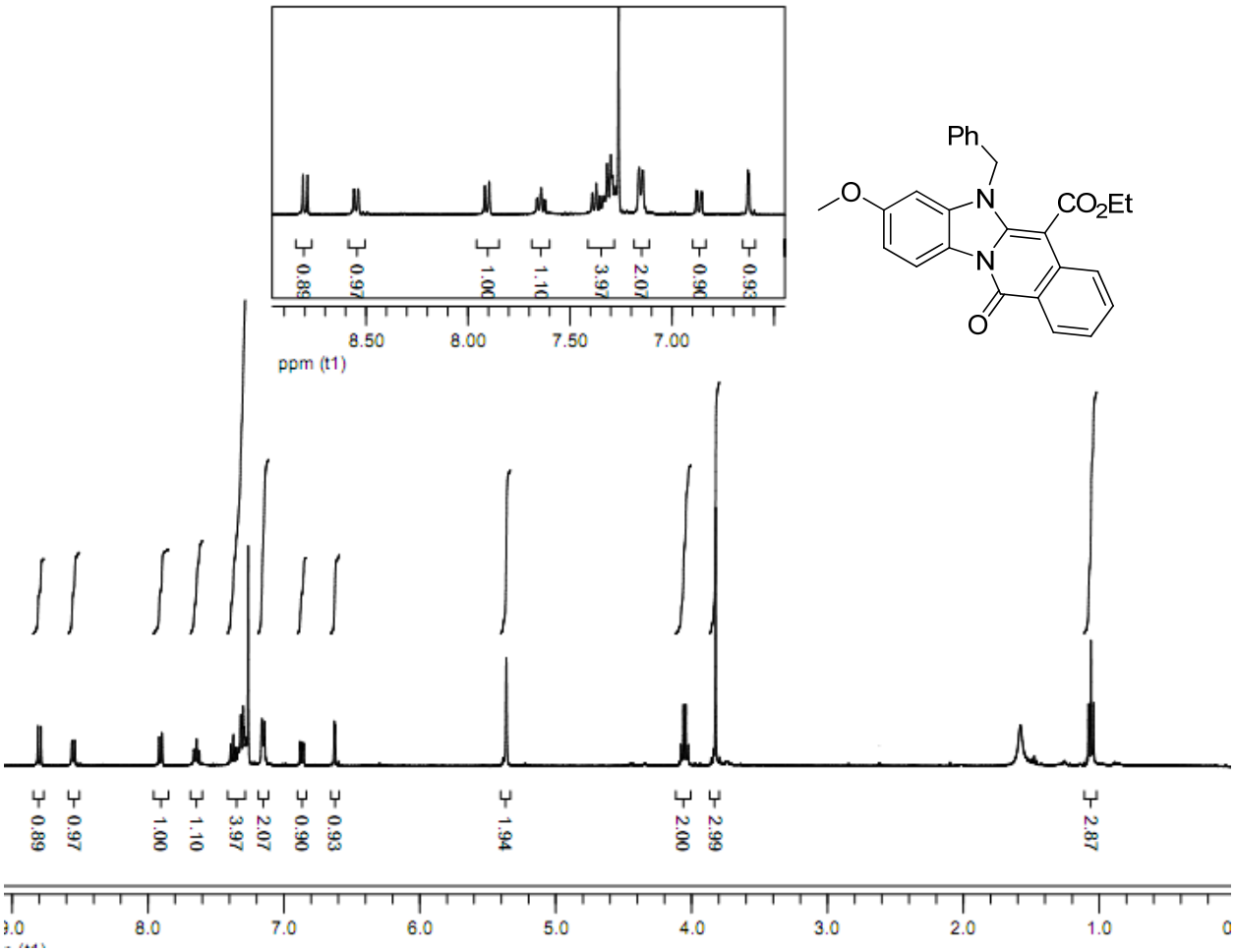

Fig. 81: ^{1}H NMR spectra of compound **4s** ($CDCl_3$, 400 MHz)

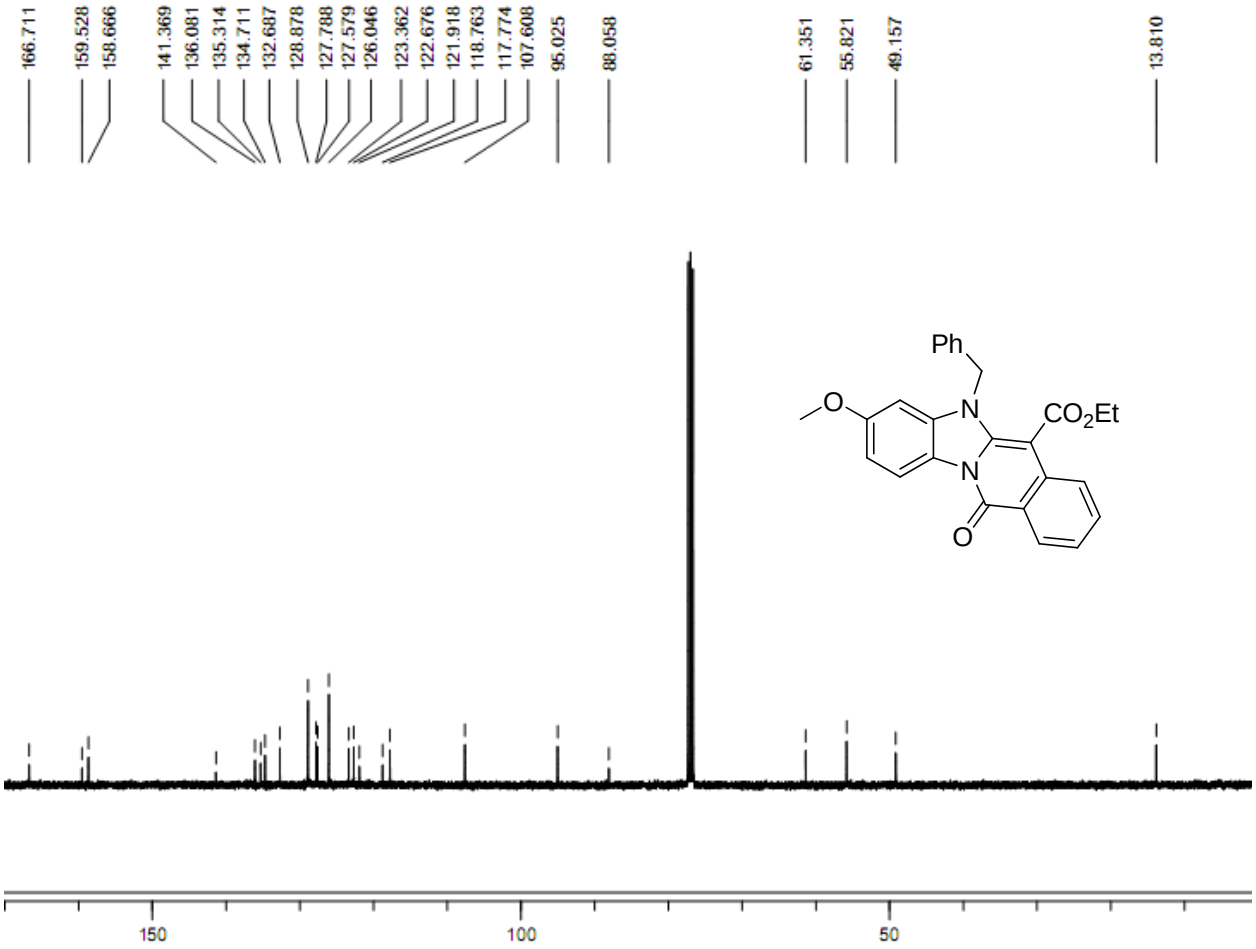

Fig. 82: ^{13}C NMR spectra of compound **4s** ($CDCl_3$, 100 MHz)

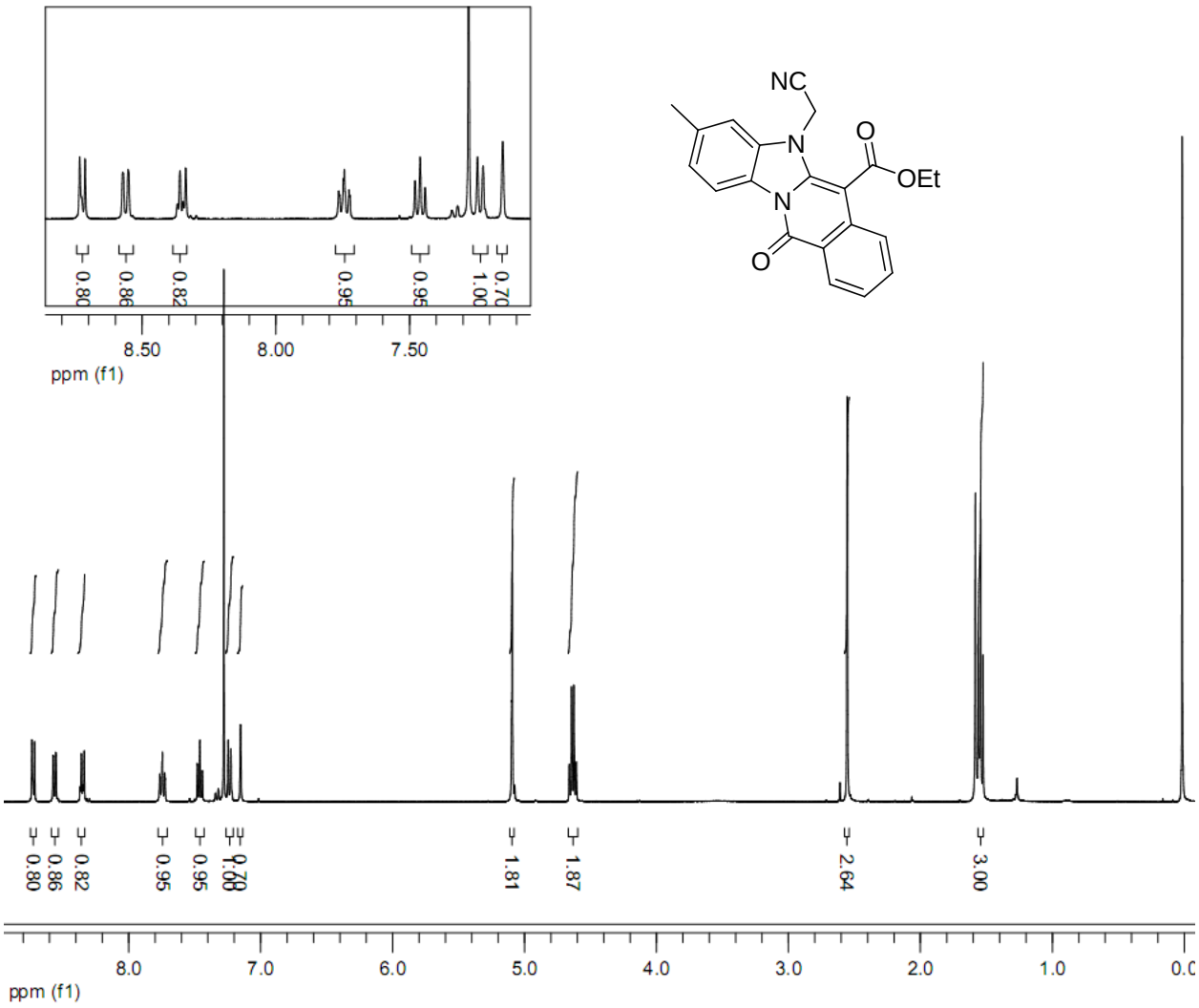

Fig. 83: ^{1}H NMR spectra of compound **4t** ($CDCl_3$, 400 MHz)

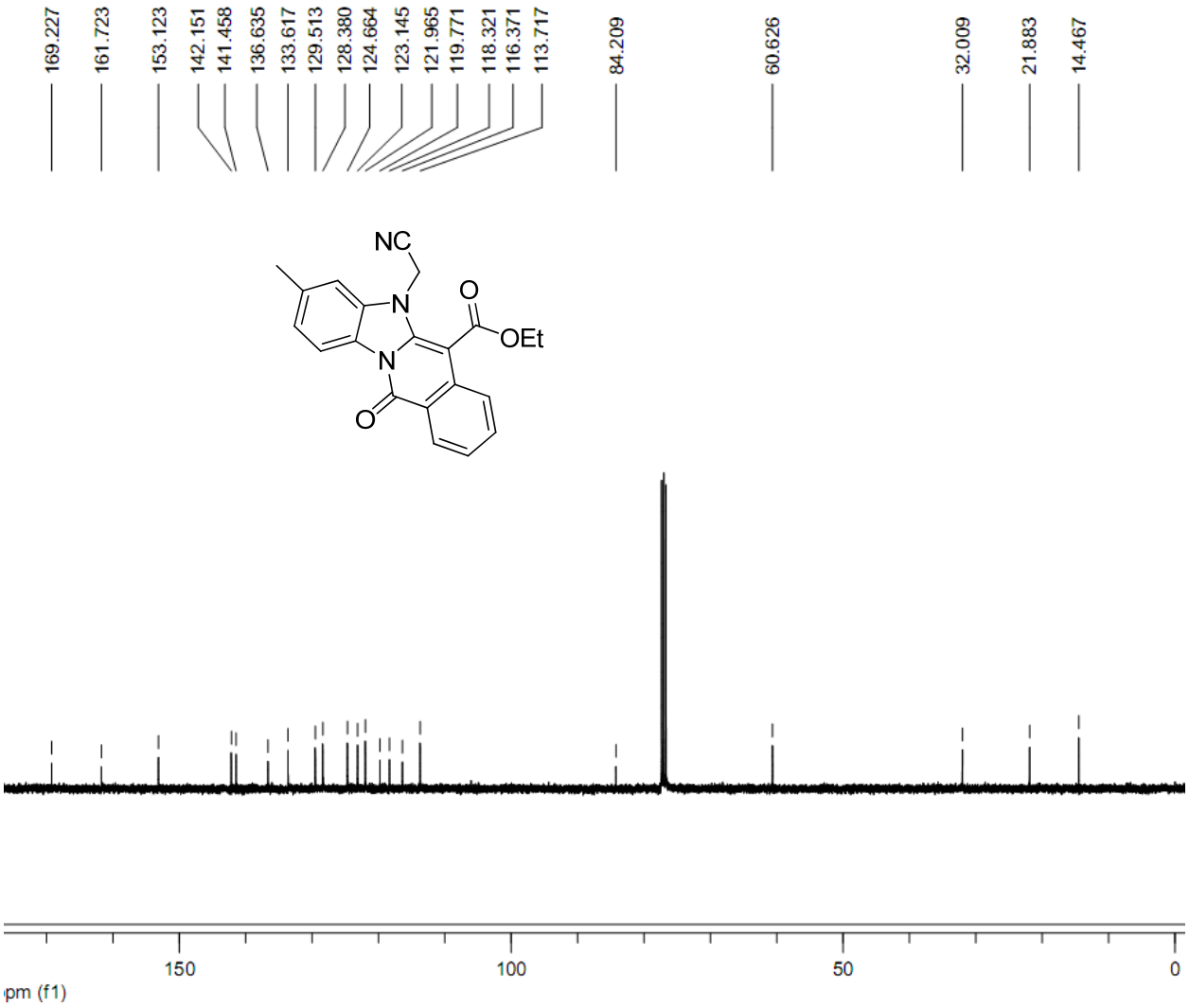

Fig. 84: ^{13}C NMR spectra of compound **4t** ($CDCl_3$, 100 MHz)

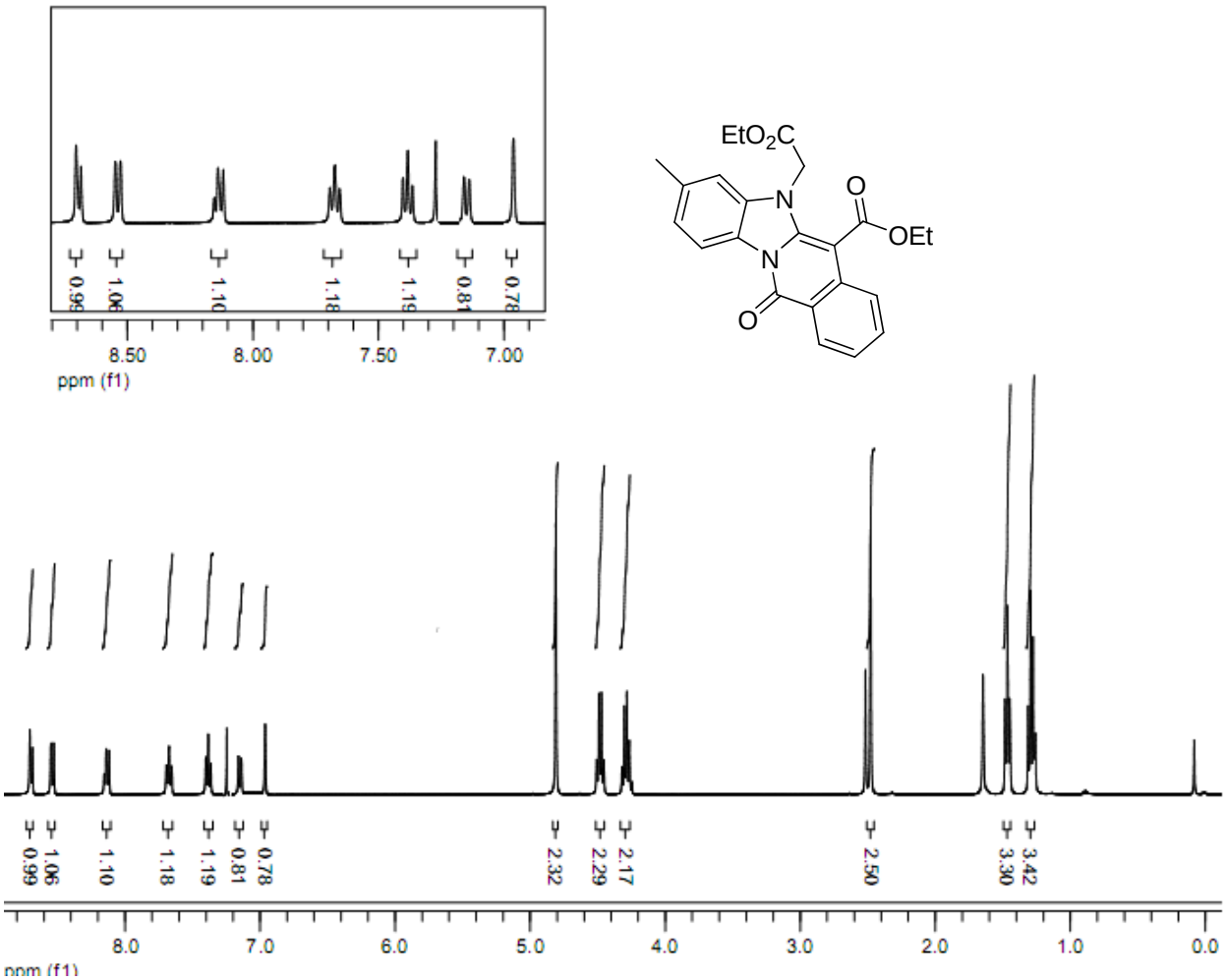

Fig. 85: ^{1}H NMR spectra of compound **4u** ($CDCl_3$, 400 MHz)

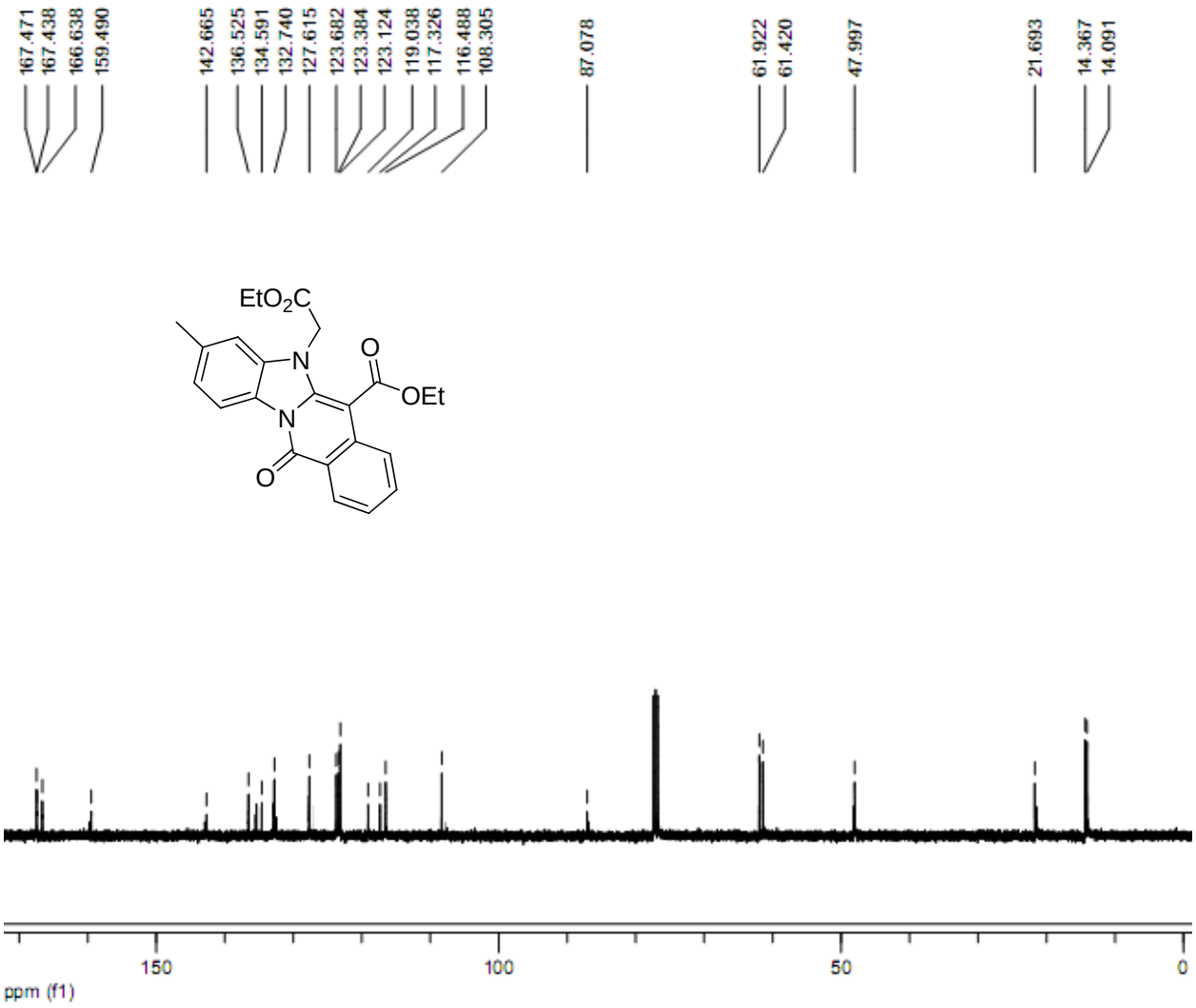

Fig. 86: ^{13}C NMR spectra of compound **4u** ($CDCl_3$, 100 MHz)

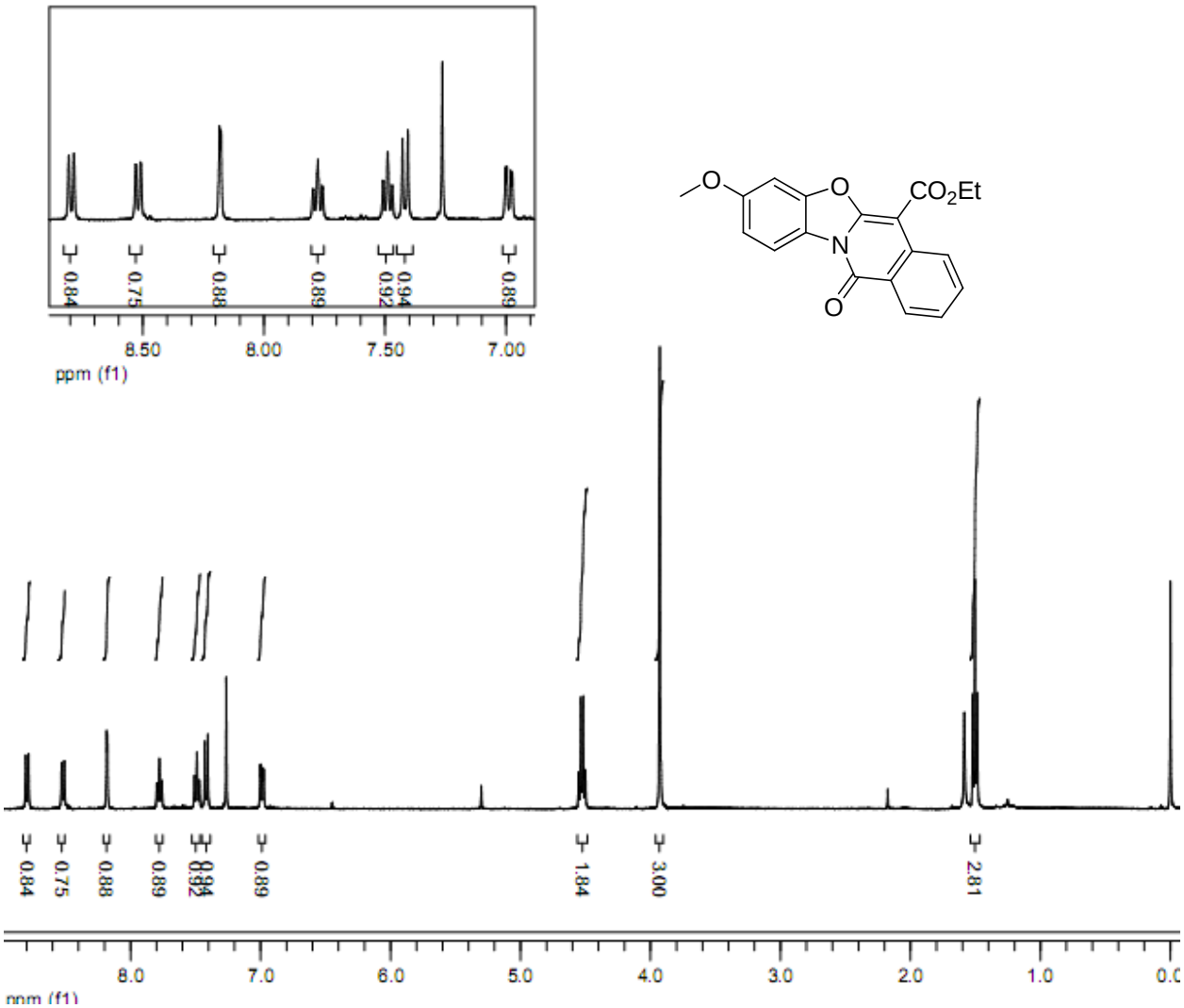

Fig. 87: ^{1}H NMR spectra of compound **4v** ($CDCl_3$, 400 MHz)

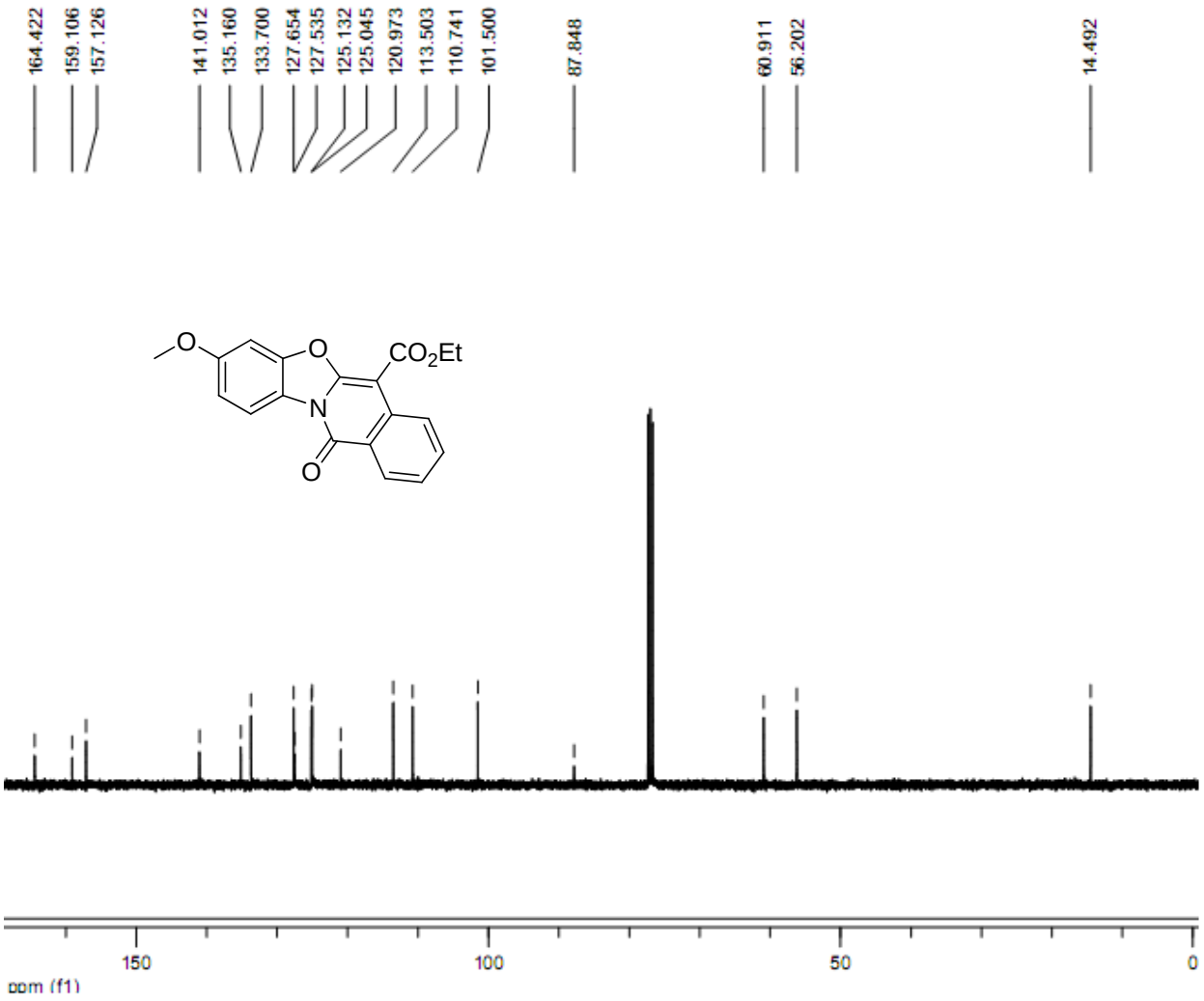

Fig. 88: ^{13}C NMR spectra of compound **4v** ($CDCl_3$, 100 MHz)

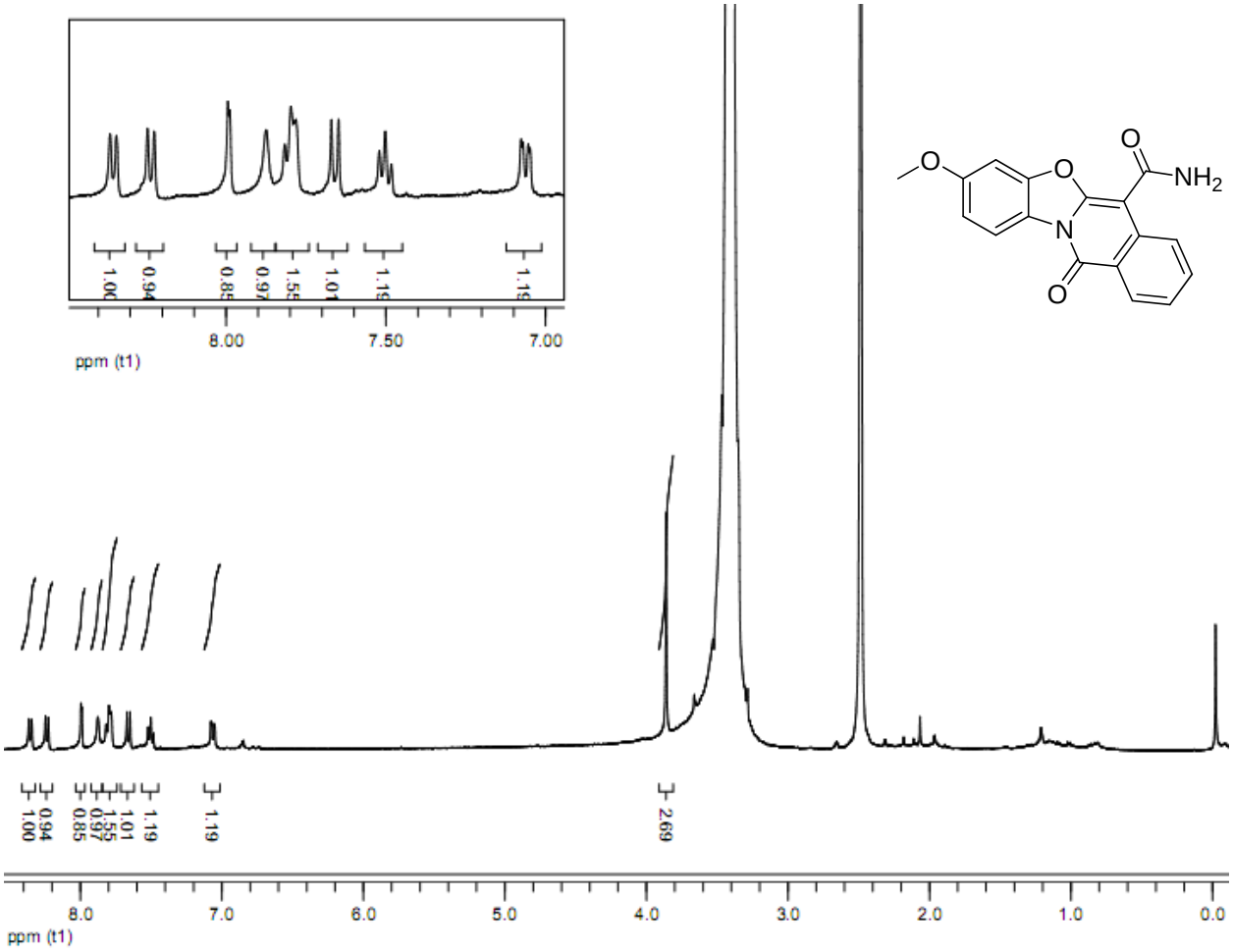

Fig. 89: ^{1}H NMR spectra of compound **4w** (DMSO-d_6, 400 MHz)

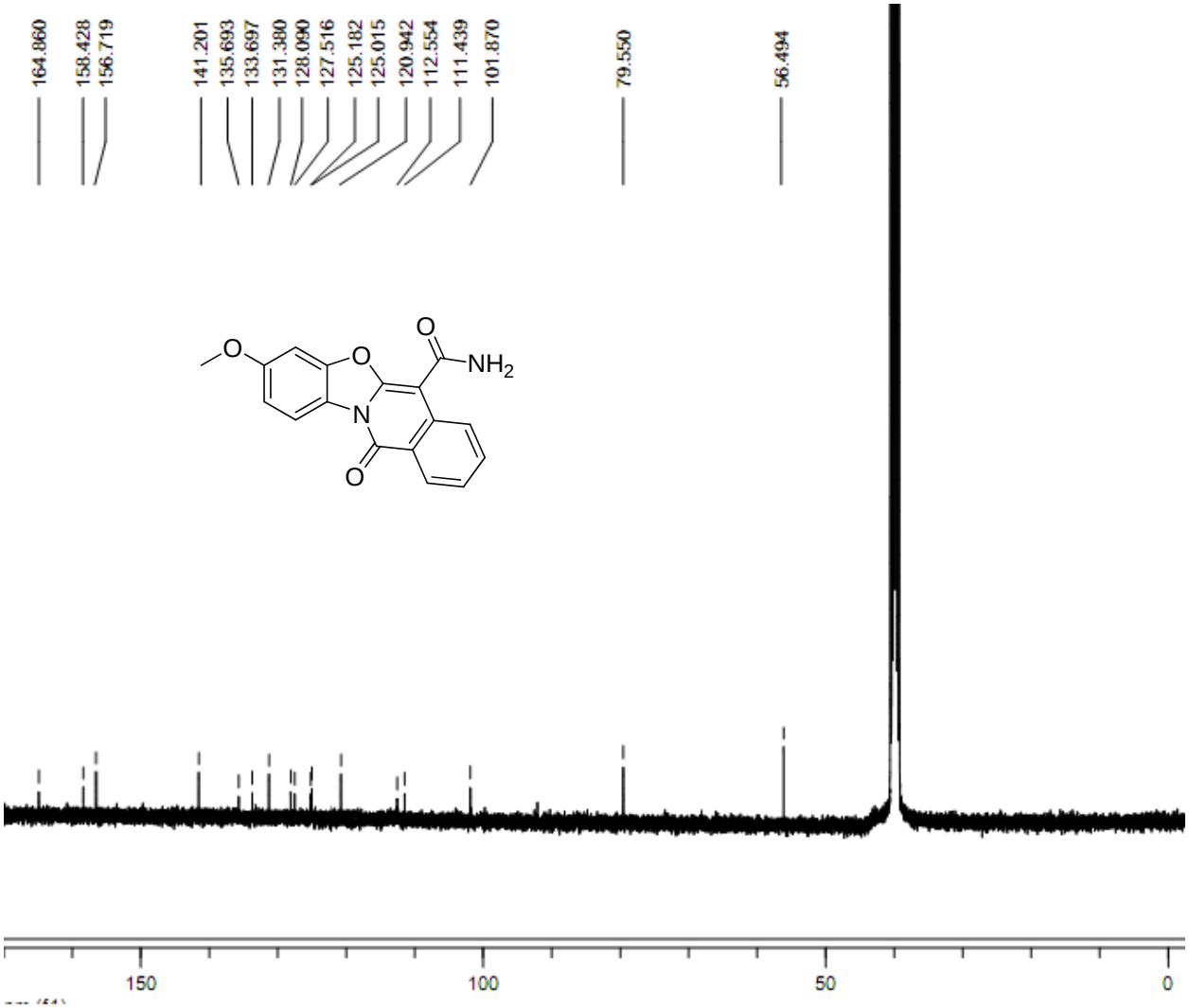

Fig. 90: ^{13}C NMR spectra of compound **4w** (DMSO-d_6, 100 MHz)

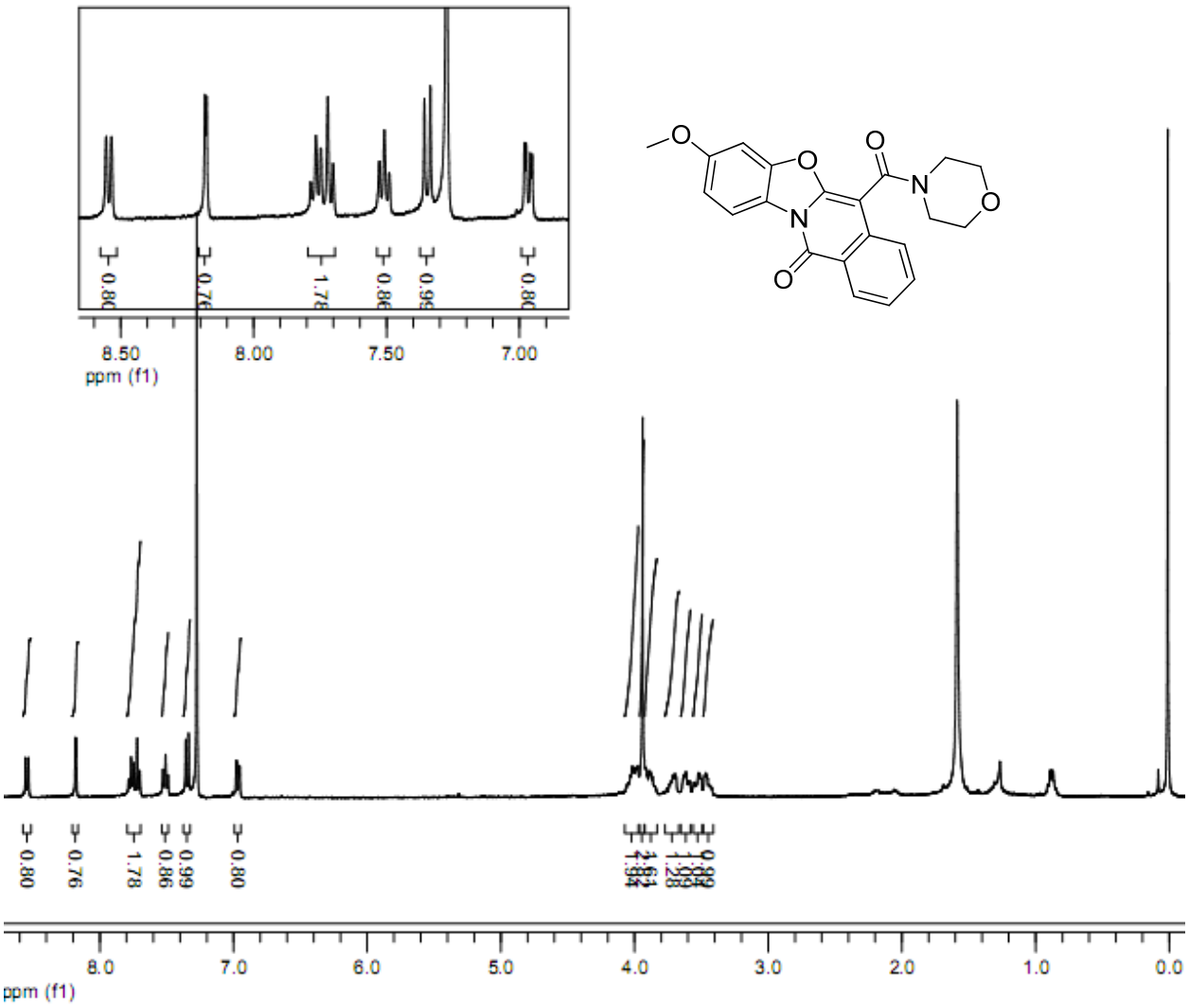

Fig. 91: ^{1}H NMR spectra of compound **4x** (DMSO-d_6, 400 MHz)

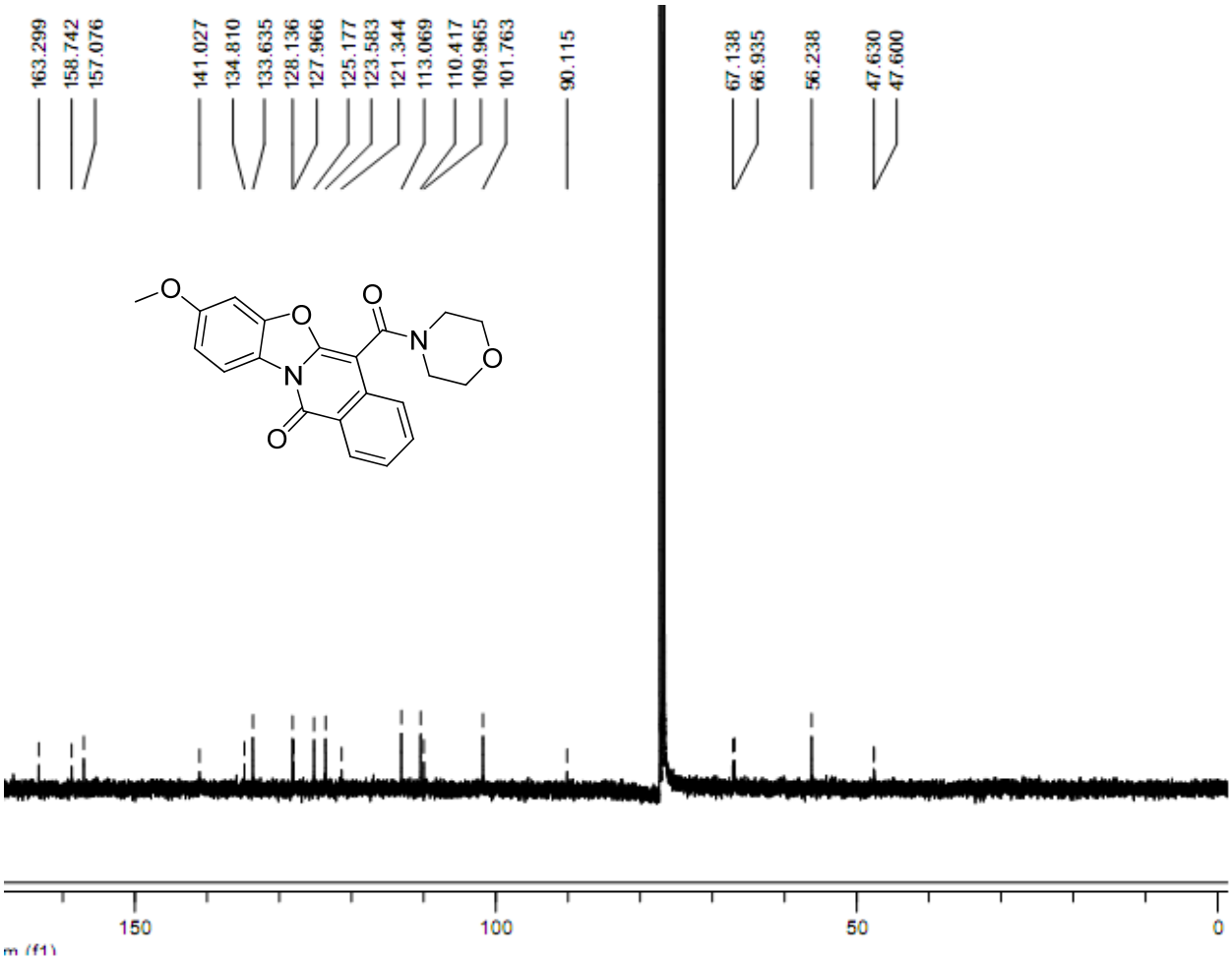

Fig. 92: ^{13}C NMR spectra of compound **4x** (DMSO-d_6, 100 MHz)

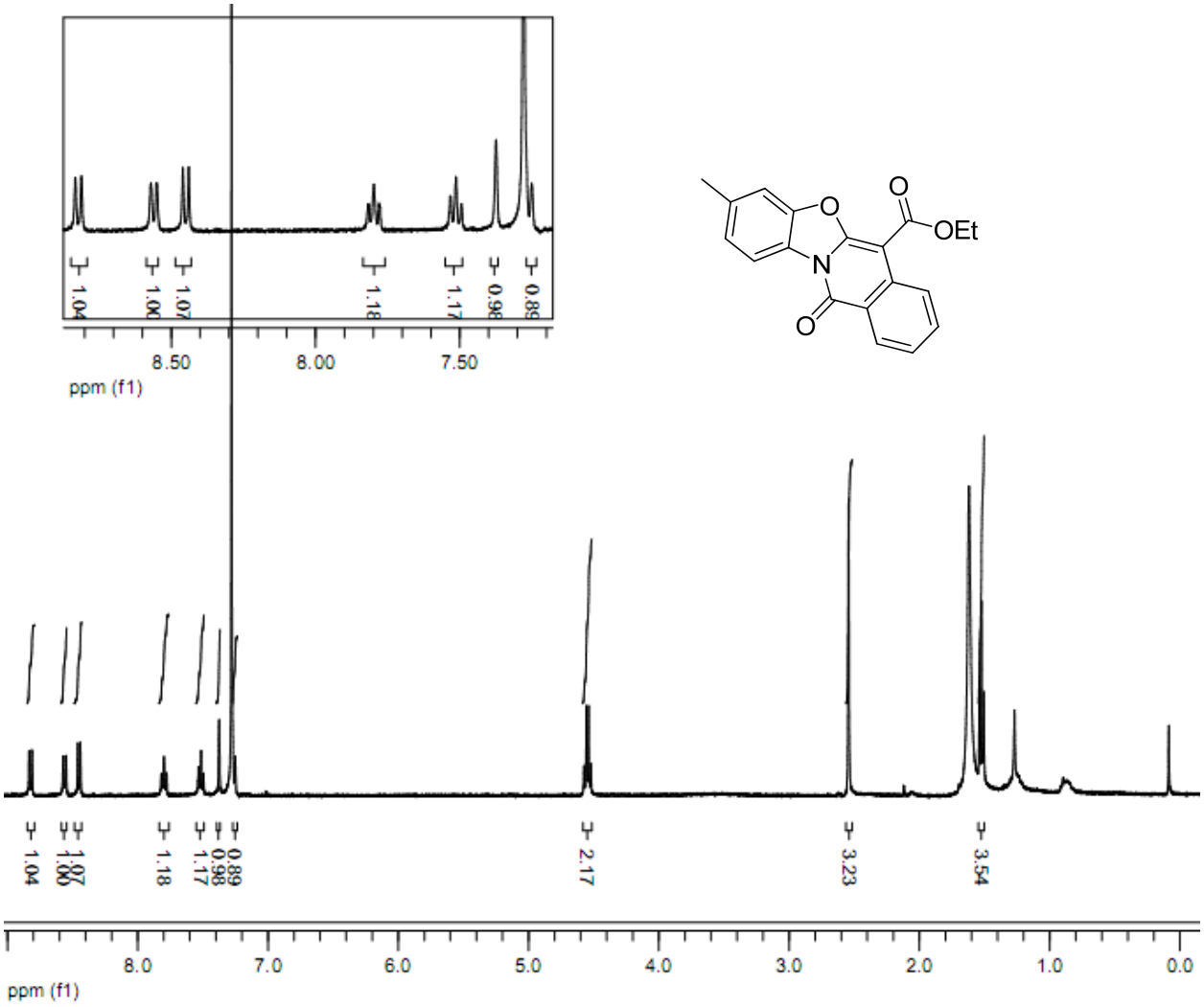

Fig. 93: ^{1}H NMR spectra of compound **4y** ($CDCl_3$, 400 MHz)

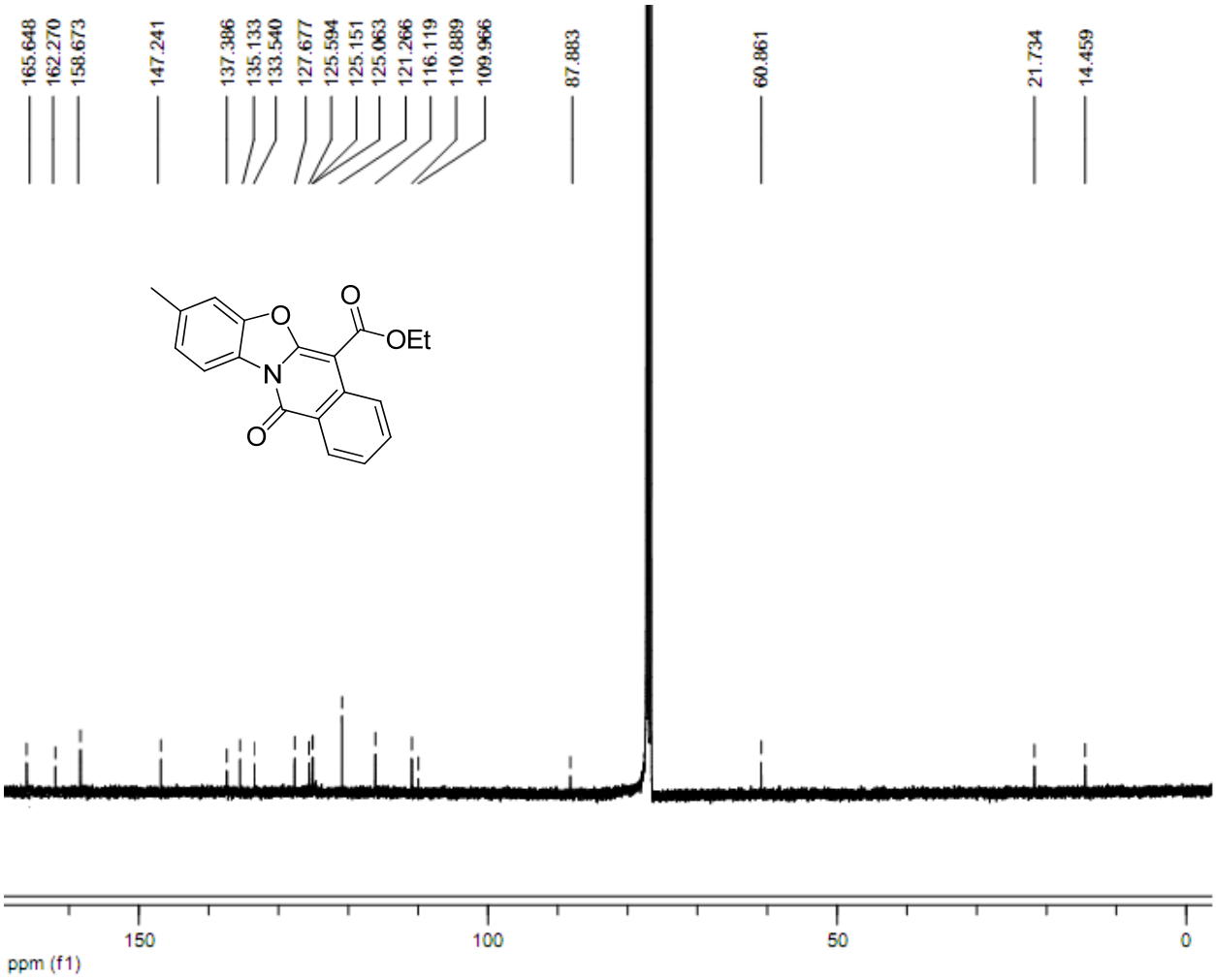

Fig. 94: ^{13}C NMR spectra of compound **4y** ($CDCl_3$, 100 MHz)