

Phosphite-Imidazole Catalyzed *N*-Formylation and *N*- Acylation of Amines

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NMR Spectra for the compounds 2a-2t, 3a-3f, 5a-5c, 7a-7b and 8

5-60

Figure S1: ^1H NMR Spectra of 2a

Figure S2: ^{13}C NMR Spectra of 2a

Figure S3: ^1H NMR Spectra of 2b

Figure S4: ^{13}C NMR Spectra of 2b

Figure S5: ^1H NMR Spectra of 2c

Figure S6: ^{13}C NMR Spectra of 2c

Figure S7: ^1H NMR Spectra of 2d

Figure S8: ^{13}C NMR Spectra of 2d

Figure S9: ^1H NMR Spectra of 2e

Figure S10: ^{13}C NMR Spectra of 2e

Figure S11: ^1H NMR Spectra of 2f

Figure S12: ^{13}C NMR Spectra of 2f

Figure S13: ^1H NMR Spectra of 2g

Figure S14: ^{13}C NMR Spectra of 2g

Figure S15: ^1H NMR Spectra of 2h

Figure S16: ^{13}C NMR Spectra of 2h

Figure S17: ^1H NMR Spectra of 2i

Figure S18: ^{13}C NMR Spectra of 2i

Figure S19: ^1H NMR Spectra of 2j

Figure S20: ^{13}C NMR Spectra of 2j
Figure S21: ^1H NMR Spectra of 2n
Figure S22: ^{13}C NMR Spectra of 2n
Figure S23: ^1H NMR Spectra of 2p
Figure S24: ^{13}C NMR Spectra of 2p
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Figure S29: ^1H NMR Spectra of 2s
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Figure S31: ^1H NMR Spectra of 2t
Figure S32: ^{13}C NMR Spectra of 2t
Figure S33: ^1H NMR Spectra of 3a
Figure S34: ^{13}C NMR Spectra of 3a
Figure S35: ^1H NMR Spectra of 3b
Figure S36: ^{13}C NMR Spectra of 3b
Figure S37: ^1H NMR Spectra of 3c
Figure S38: ^{13}C NMR Spectra of 3c
Figure S39: ^1H NMR Spectra of 3d
Figure S40: ^{13}C NMR Spectra of 3d
Figure S41: ^1H NMR Spectra of 3e

Figure S42: ^{13}C NMR Spectra of 3e

Figure S43: ^1H NMR Spectra of 3f

Figure S44: ^{13}C NMR Spectra of 3f

Figure S45: ^1H NMR Spectra of 5a

Figure S46: ^{13}C NMR Spectra of 5a

Figure S47: ^1H NMR Spectra of 5b

Figure S48: ^{13}C NMR Spectra of 5b

Figure S49: ^1H NMR Spectra of 5c

Figure S50: ^{13}C NMR Spectra of 5c

Figure S51: ^1H NMR Spectra of 7a

Figure S52: ^{13}C NMR Spectra of 7a

Figure S53: ^1H NMR Spectra of 7b

Figure S54: ^{13}C NMR Spectra of 7b

Figure S55: ^1H NMR Spectra of 8

Figure S56: ^{13}C NMR Spectra of 8

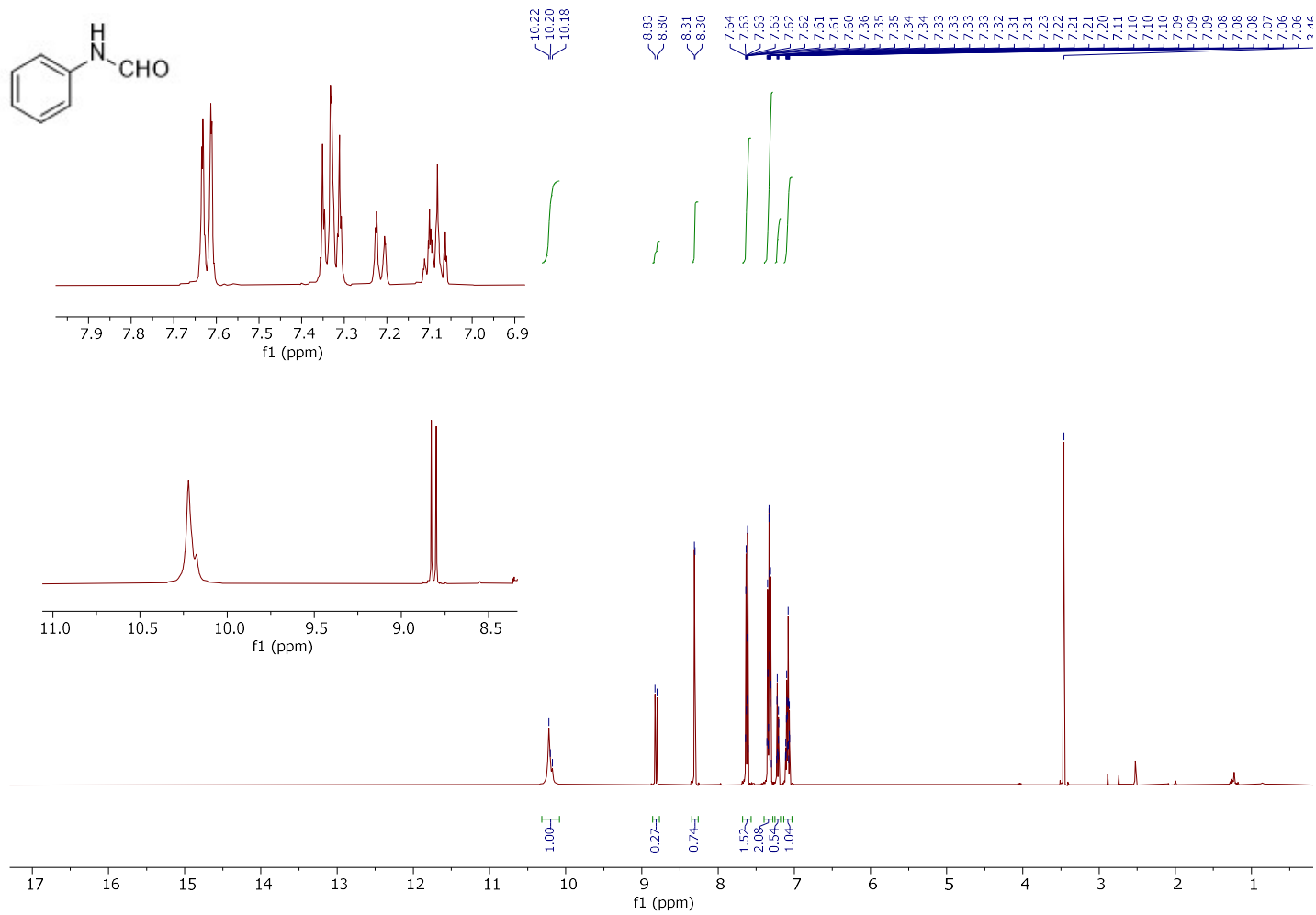


Figure S1: ¹H NMR Spectra of 2a

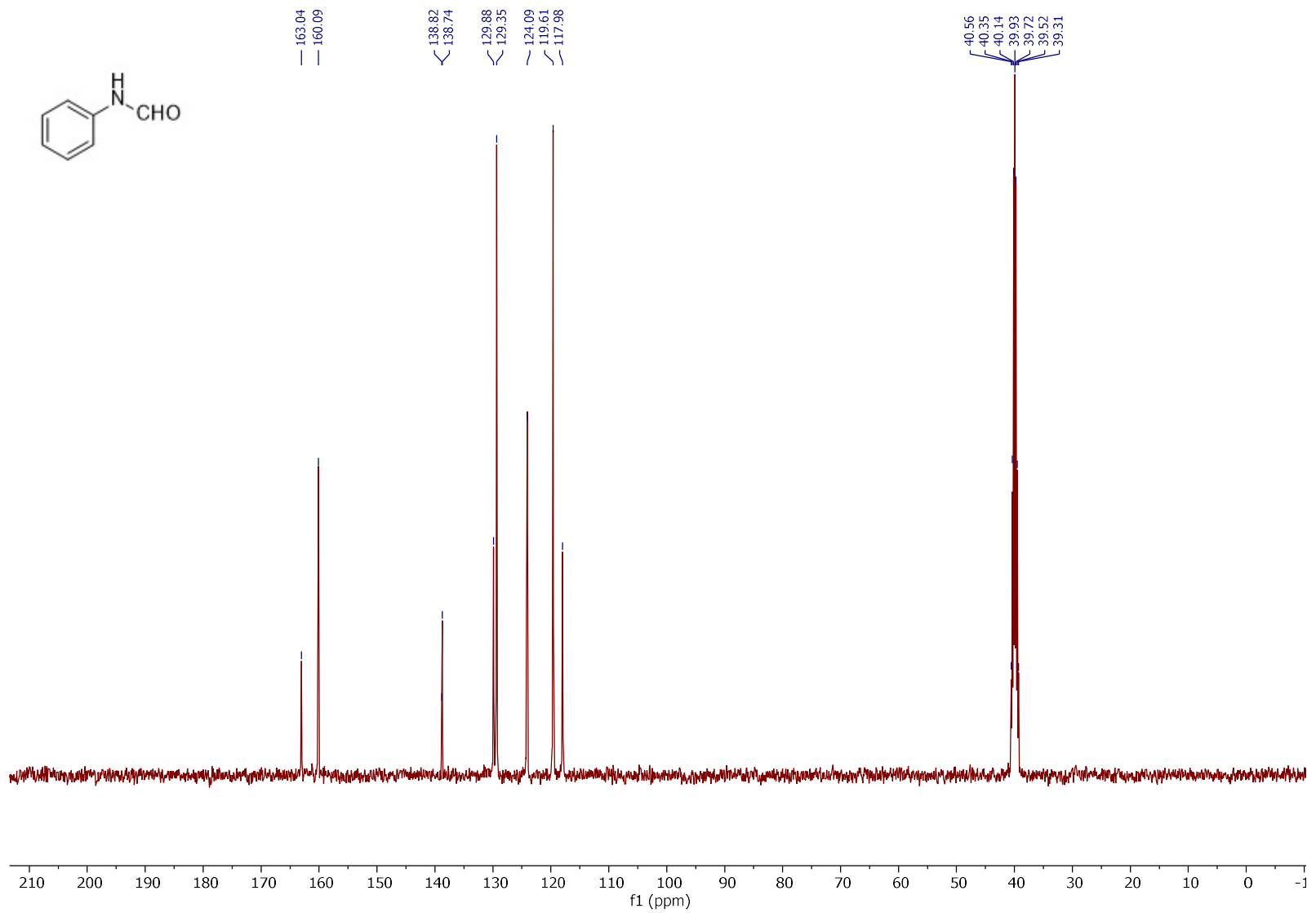


Figure S2: ^{13}C NMR Spectra of 2a

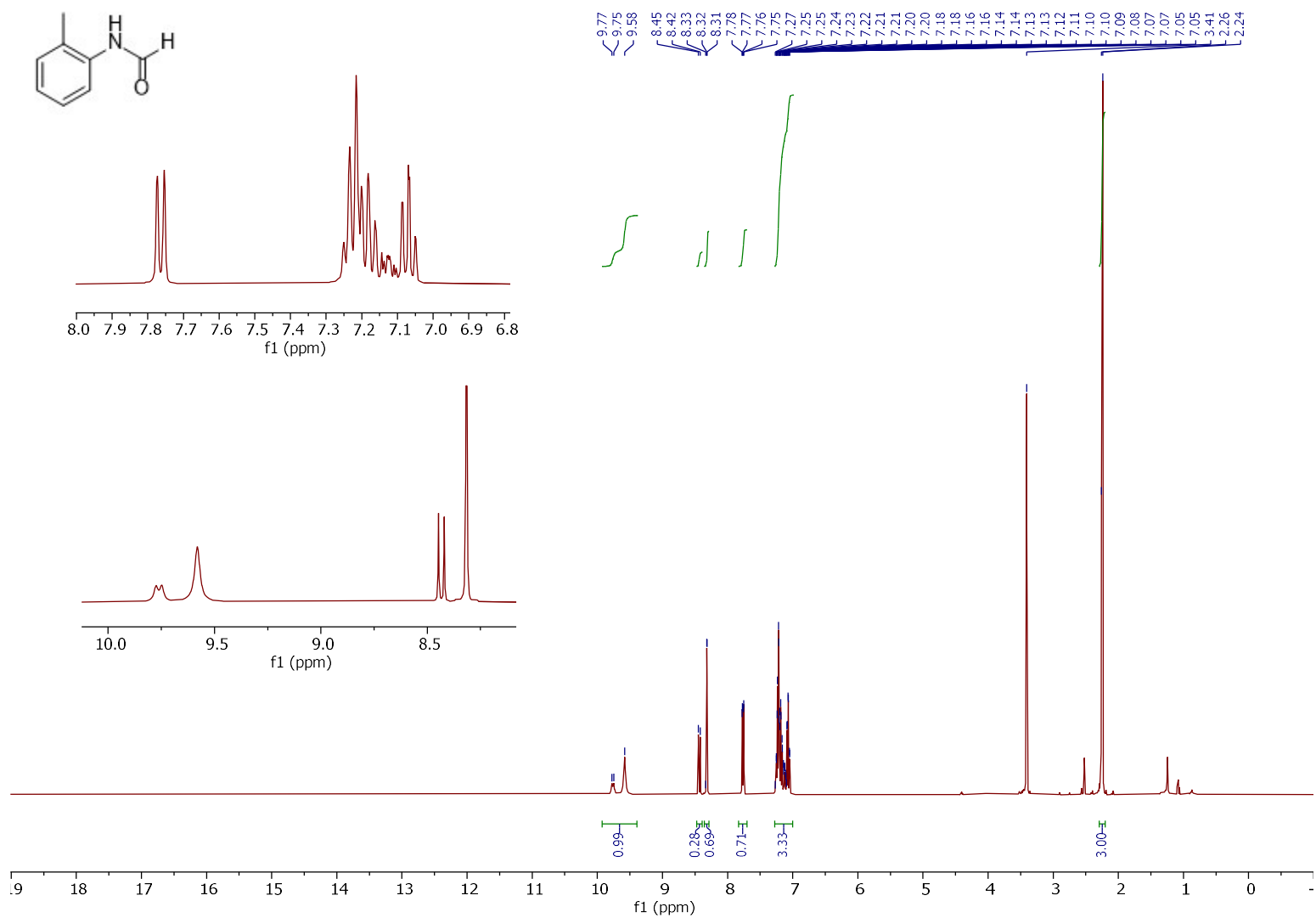


Figure S3: ^1H NMR Spectra of 2b

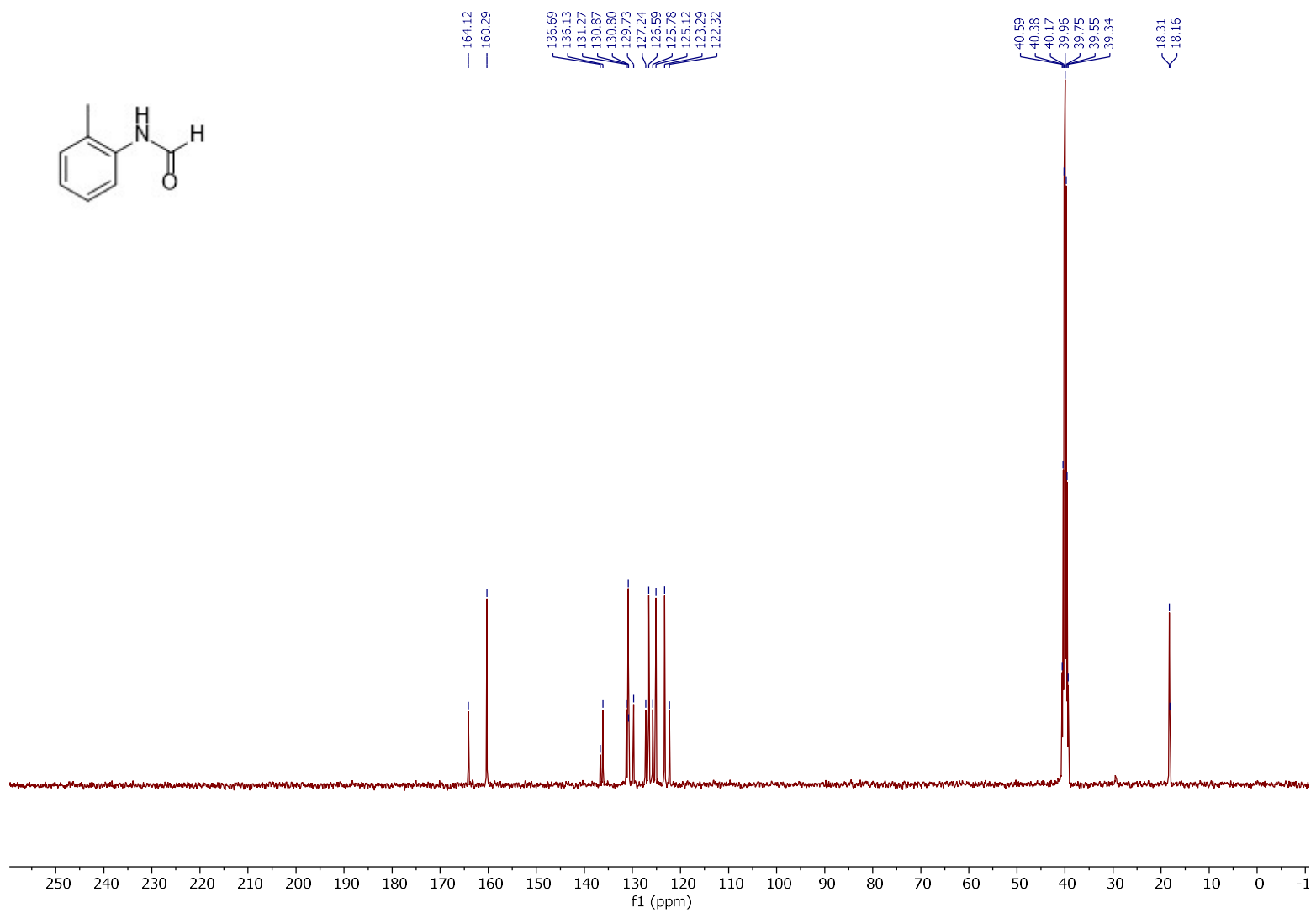


Figure S4: ^{13}C NMR Spectra of 2b

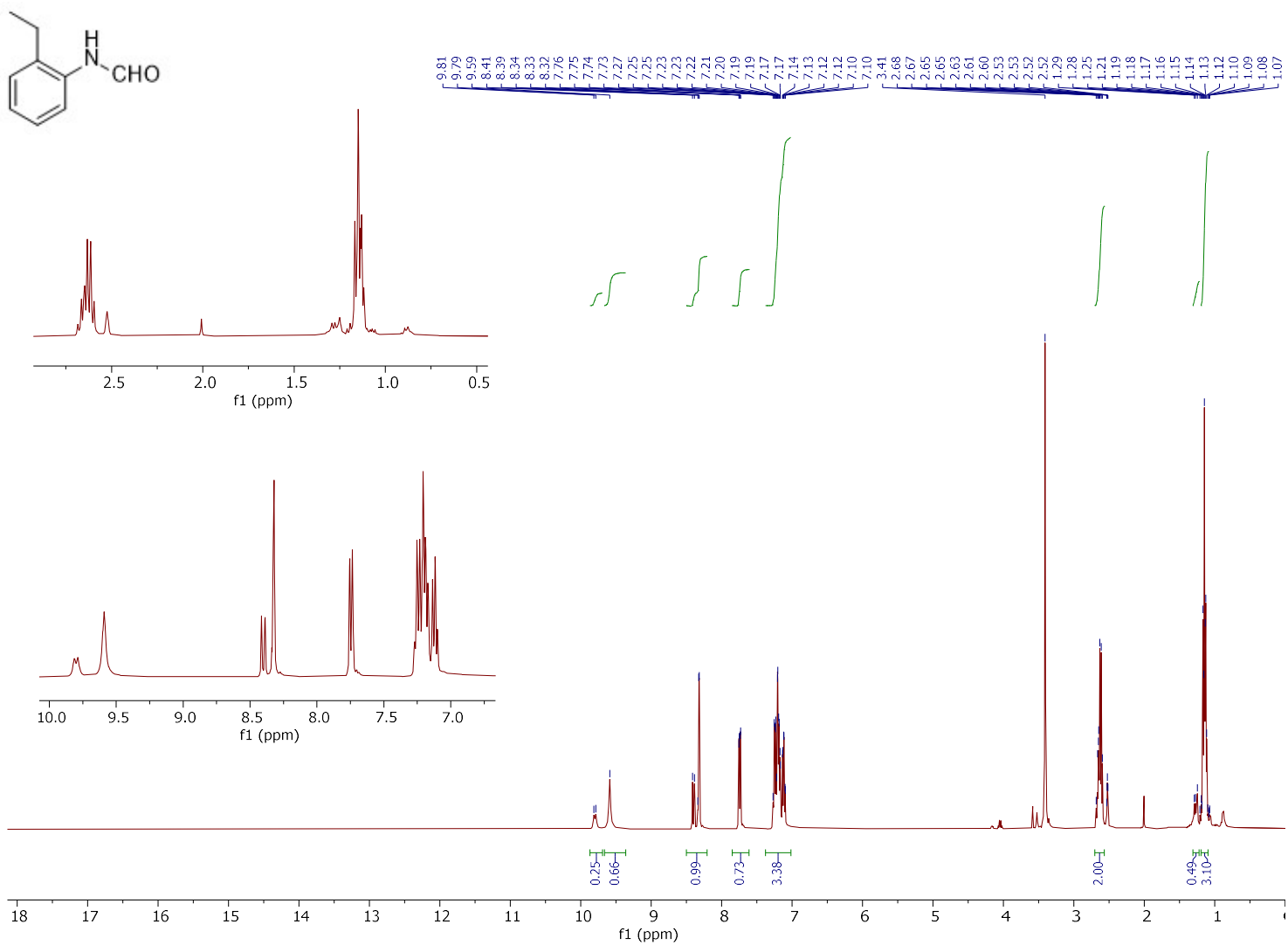


Figure S5: ^1H NMR Spectra of 2c

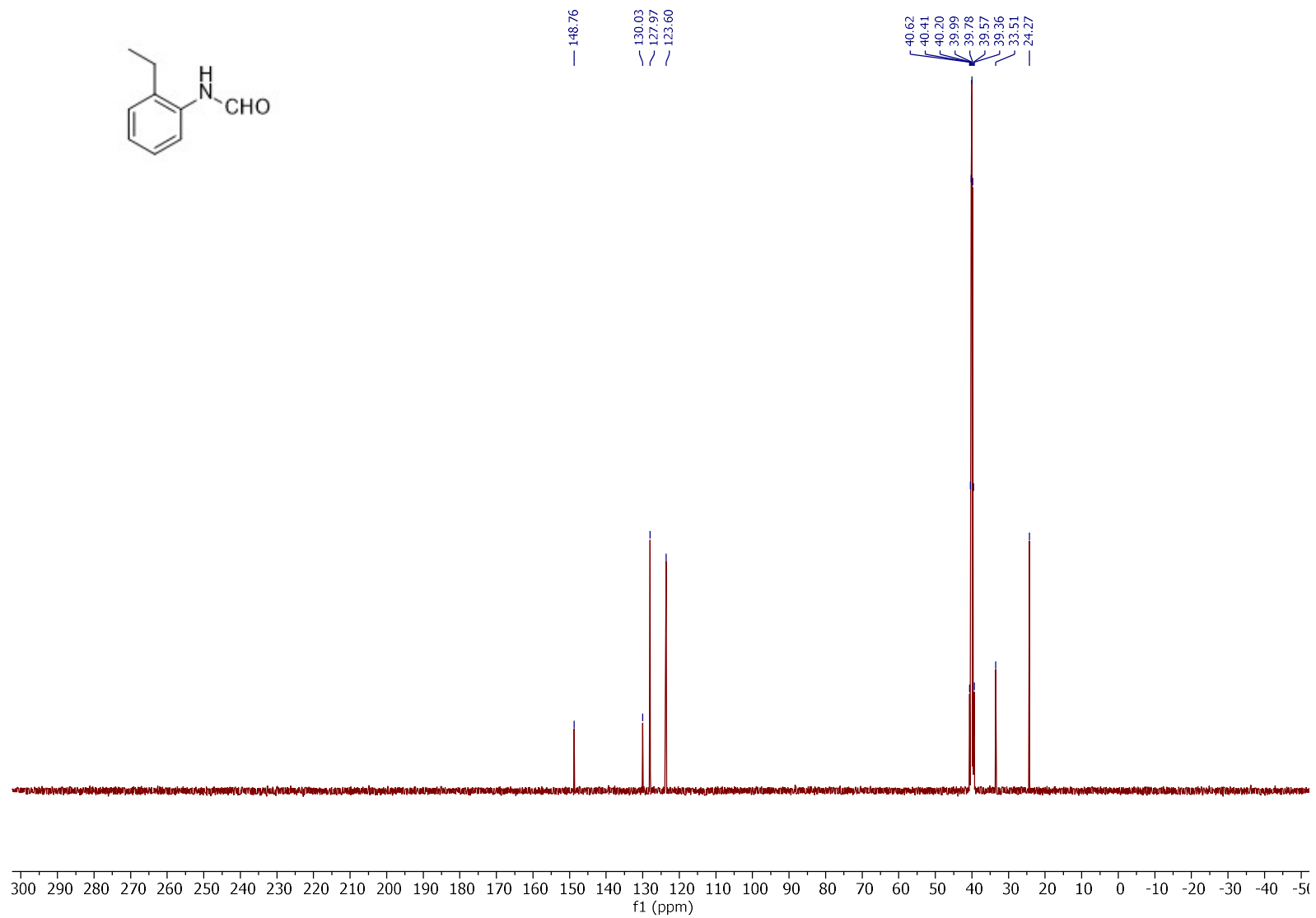
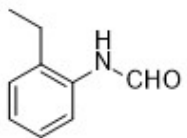


Figure S6: ^{13}C NMR Spectra of 2c

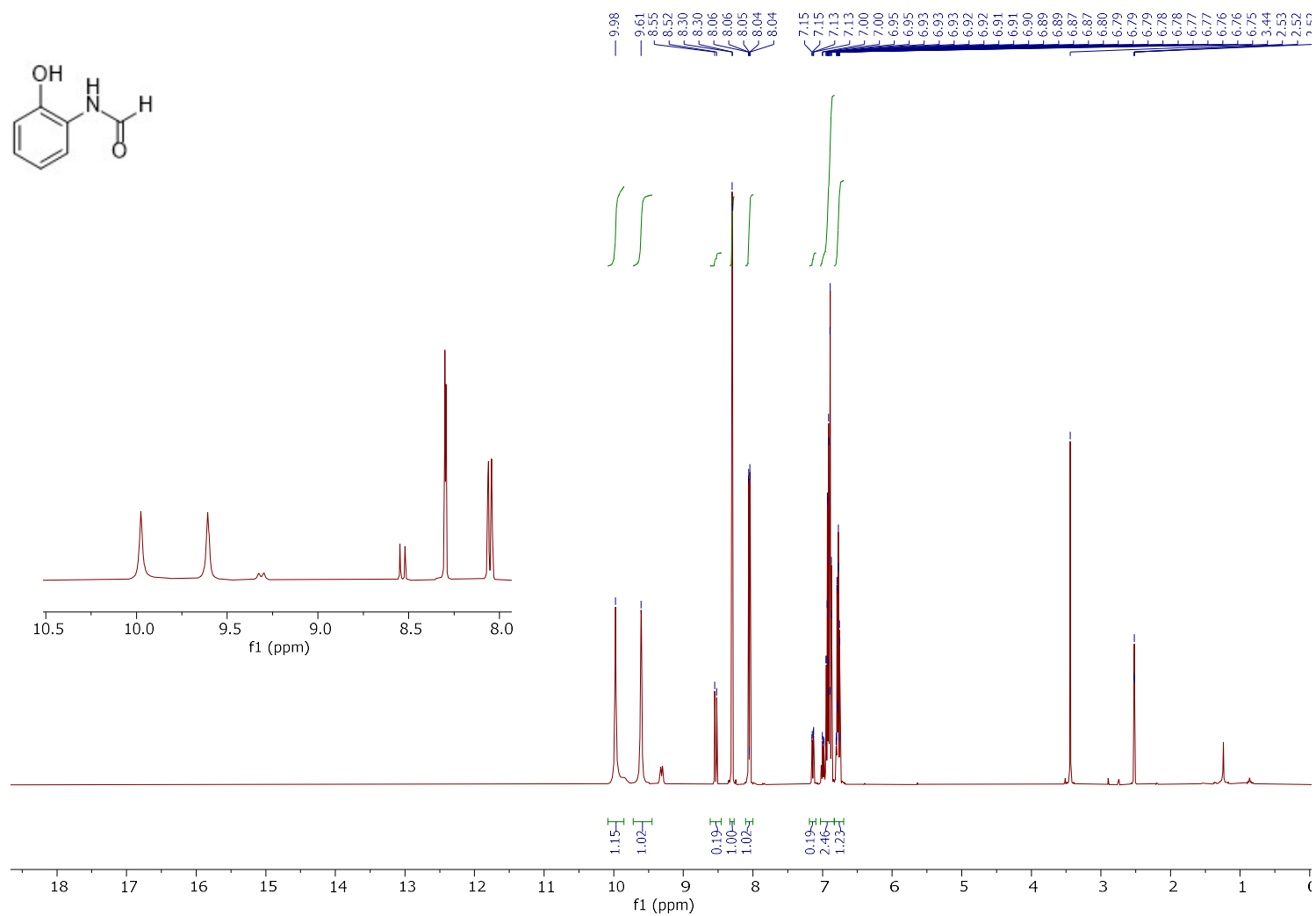


Figure S7: ¹H NMR Spectra of 2d

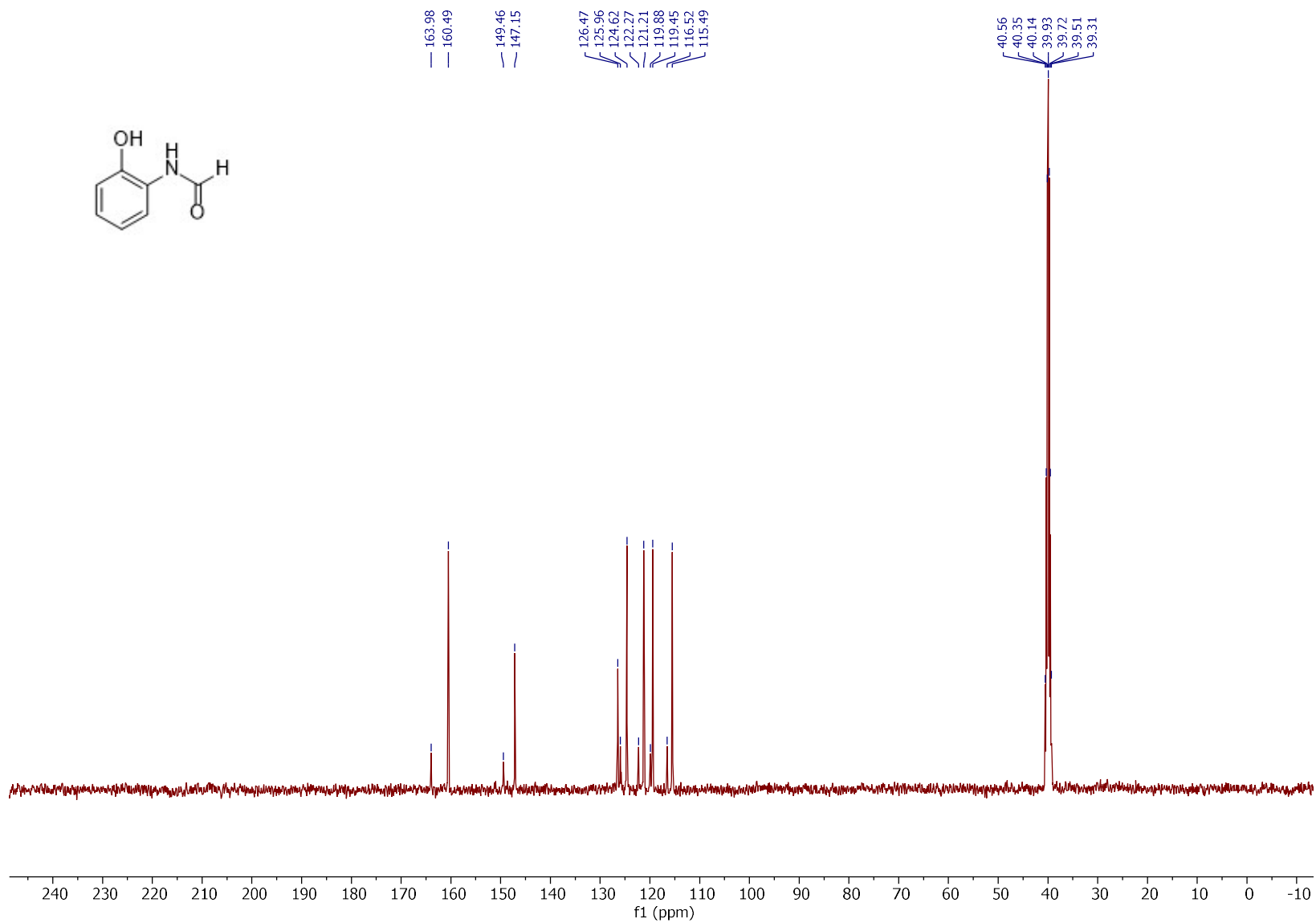


Figure S8: ¹³C NMR Spectra of 2d

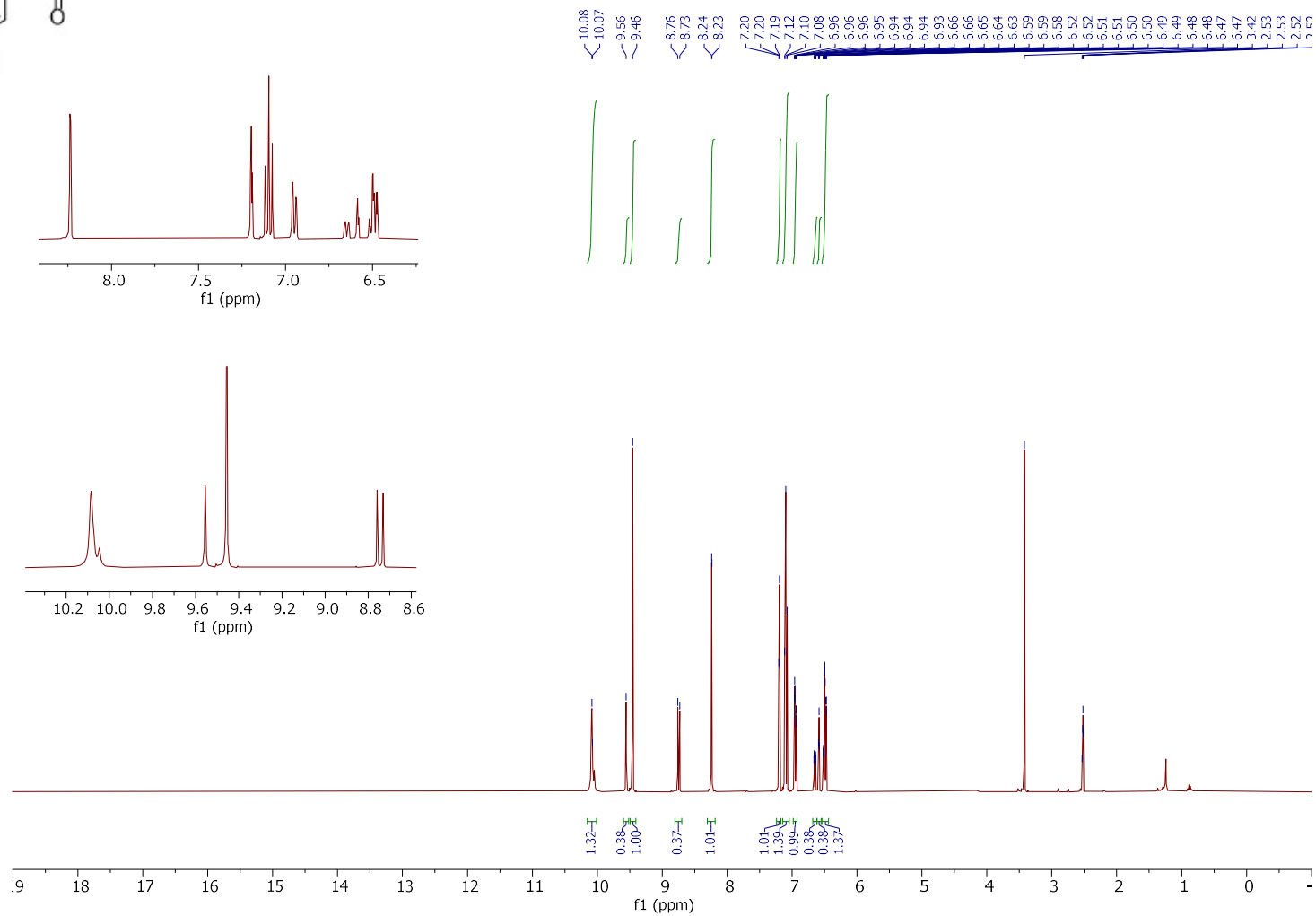
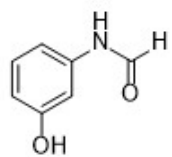


Figure S9: ¹H NMR Spectra of 2e

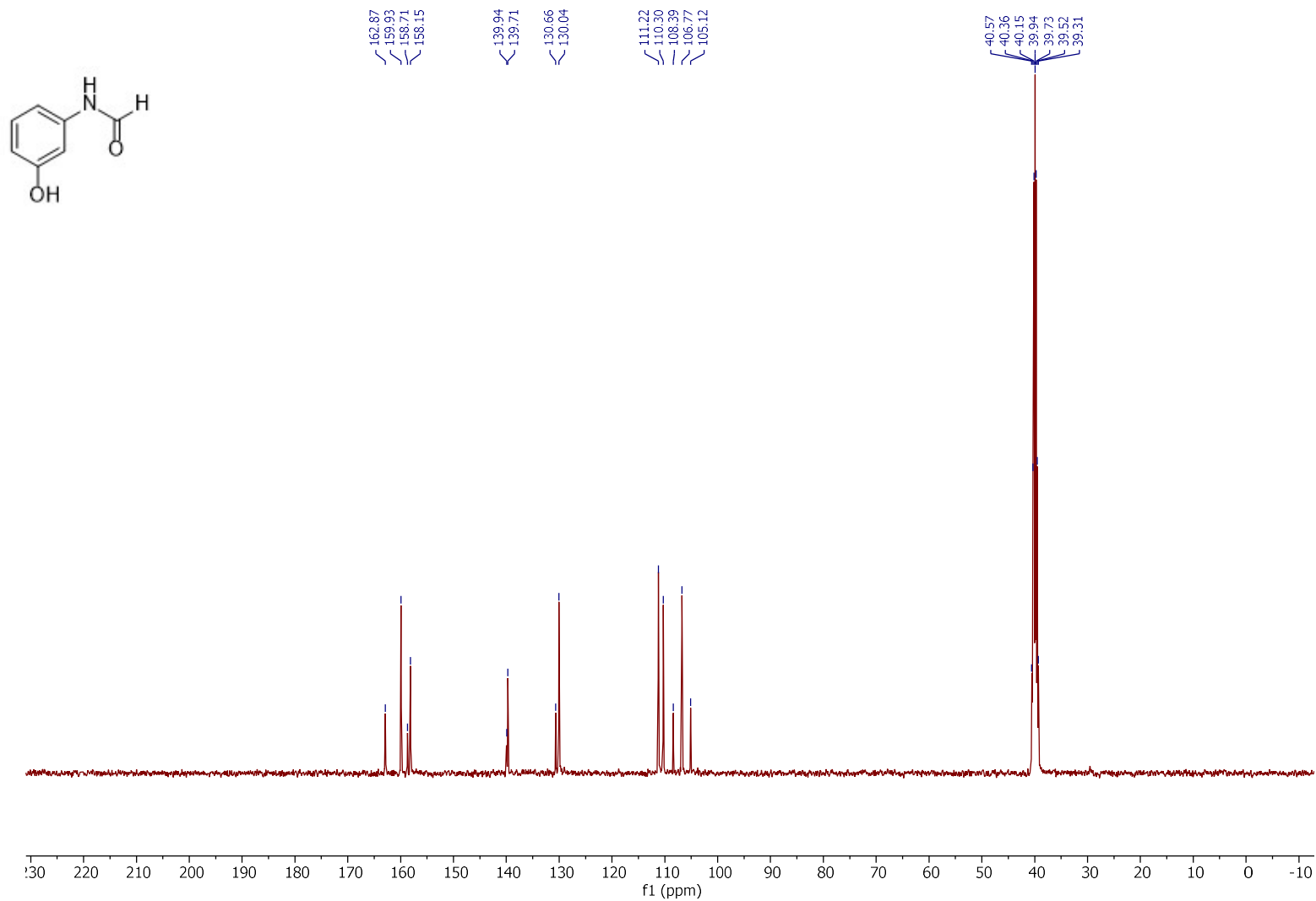


Figure S10: ¹³C NMR Spectra of 2e

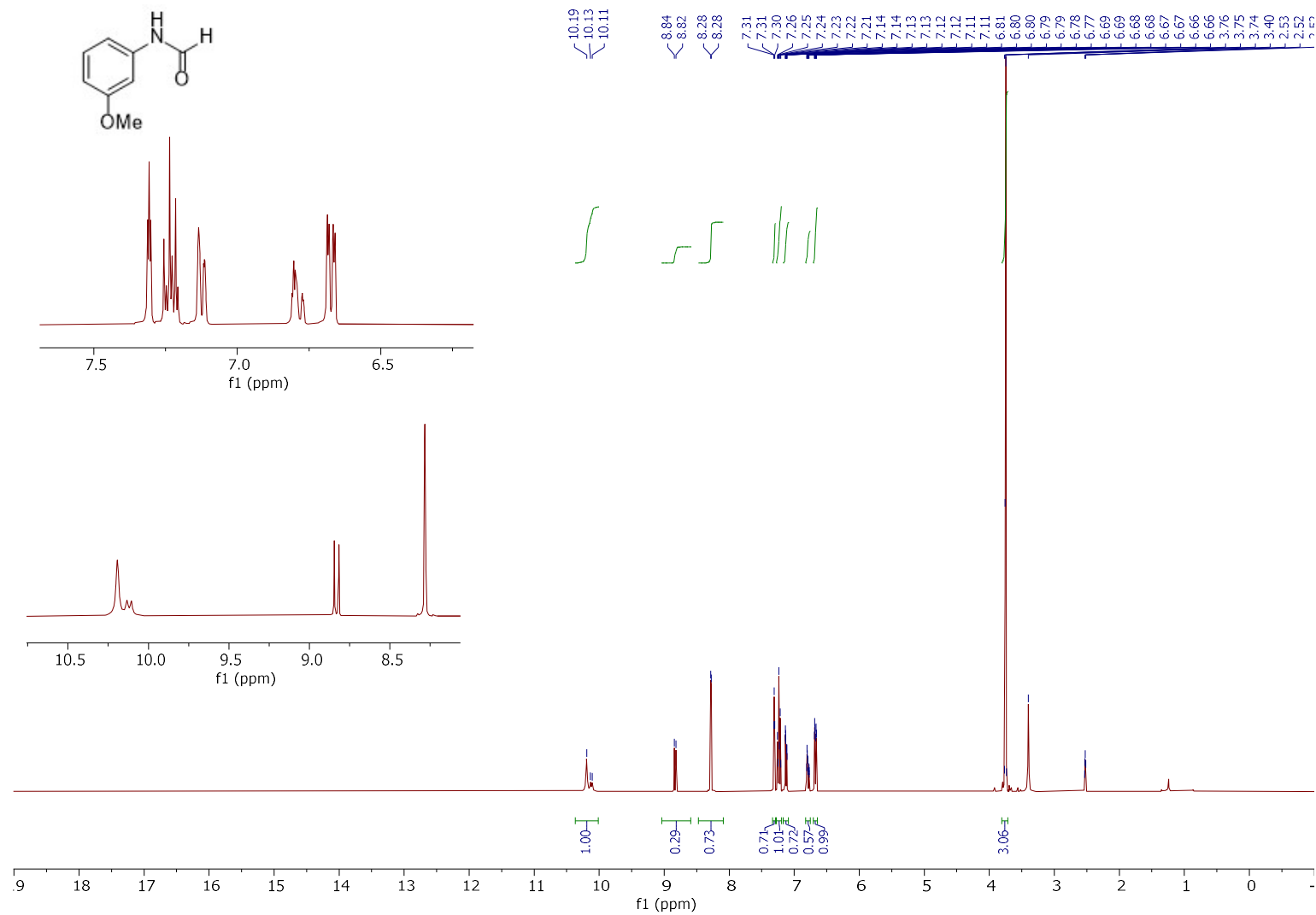


Figure S11: ¹H NMR Spectra of 2f

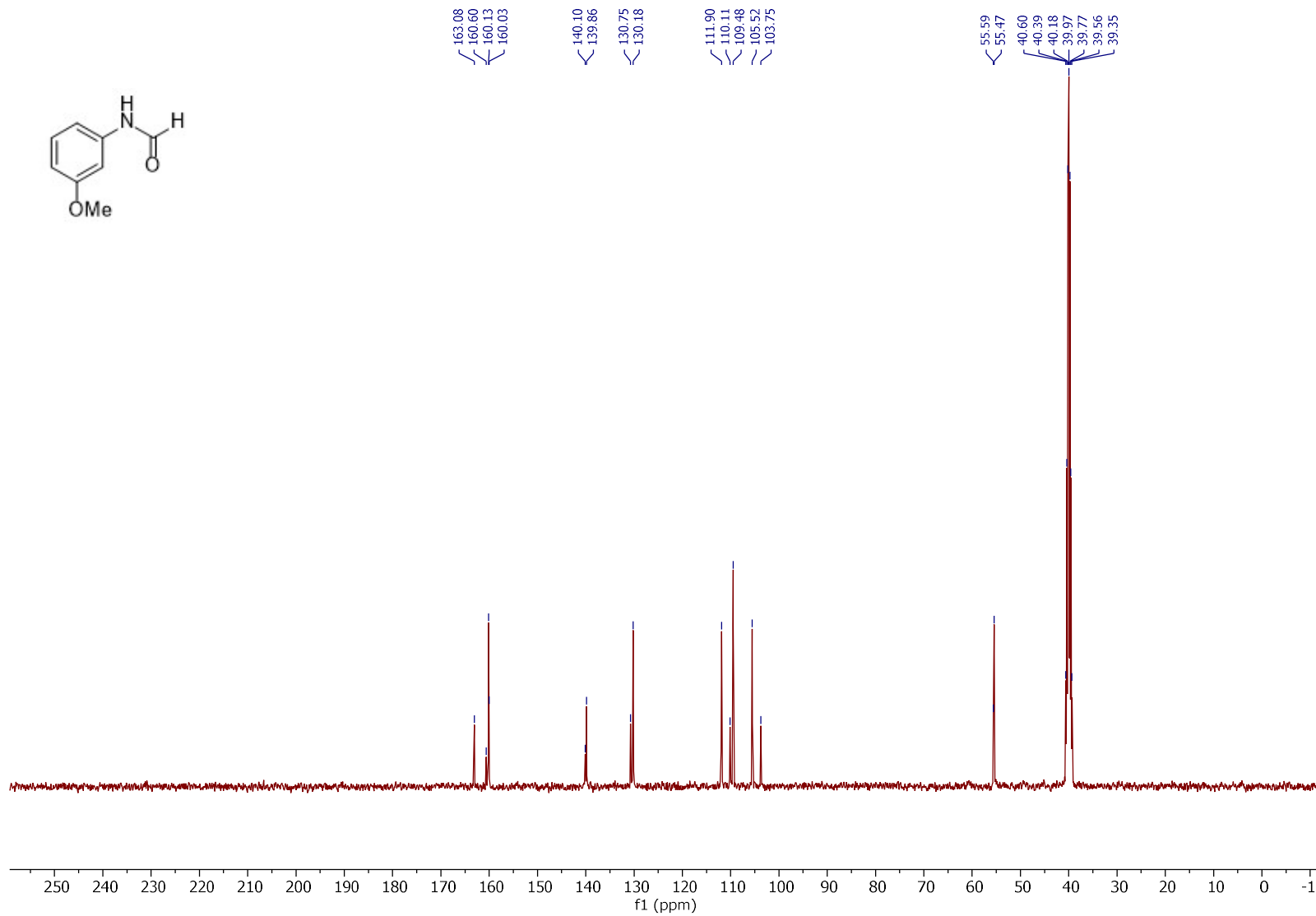


Figure S12: ¹³C NMR Spectra of 2f

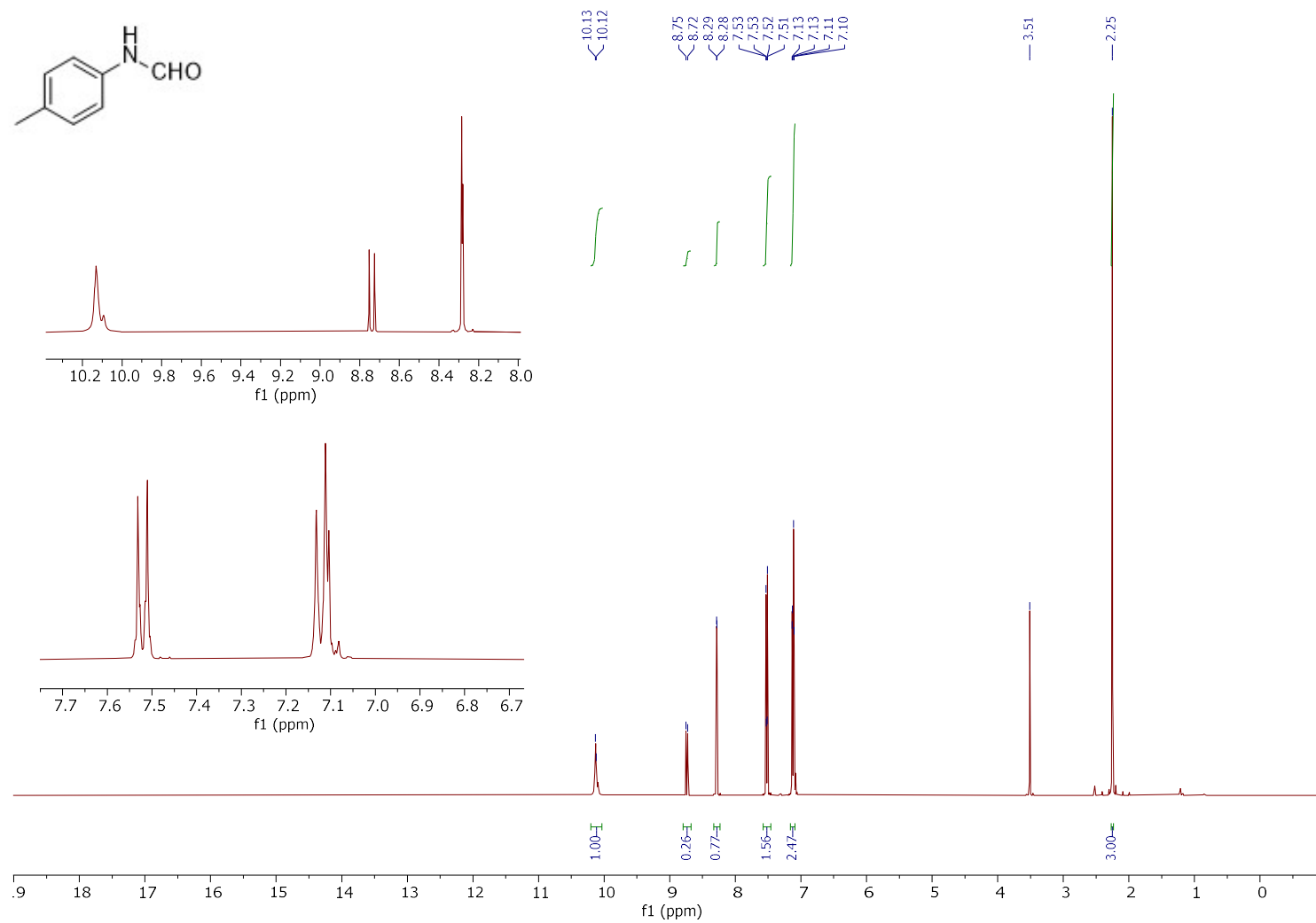


Figure S13: ¹H NMR Spectra of 2g

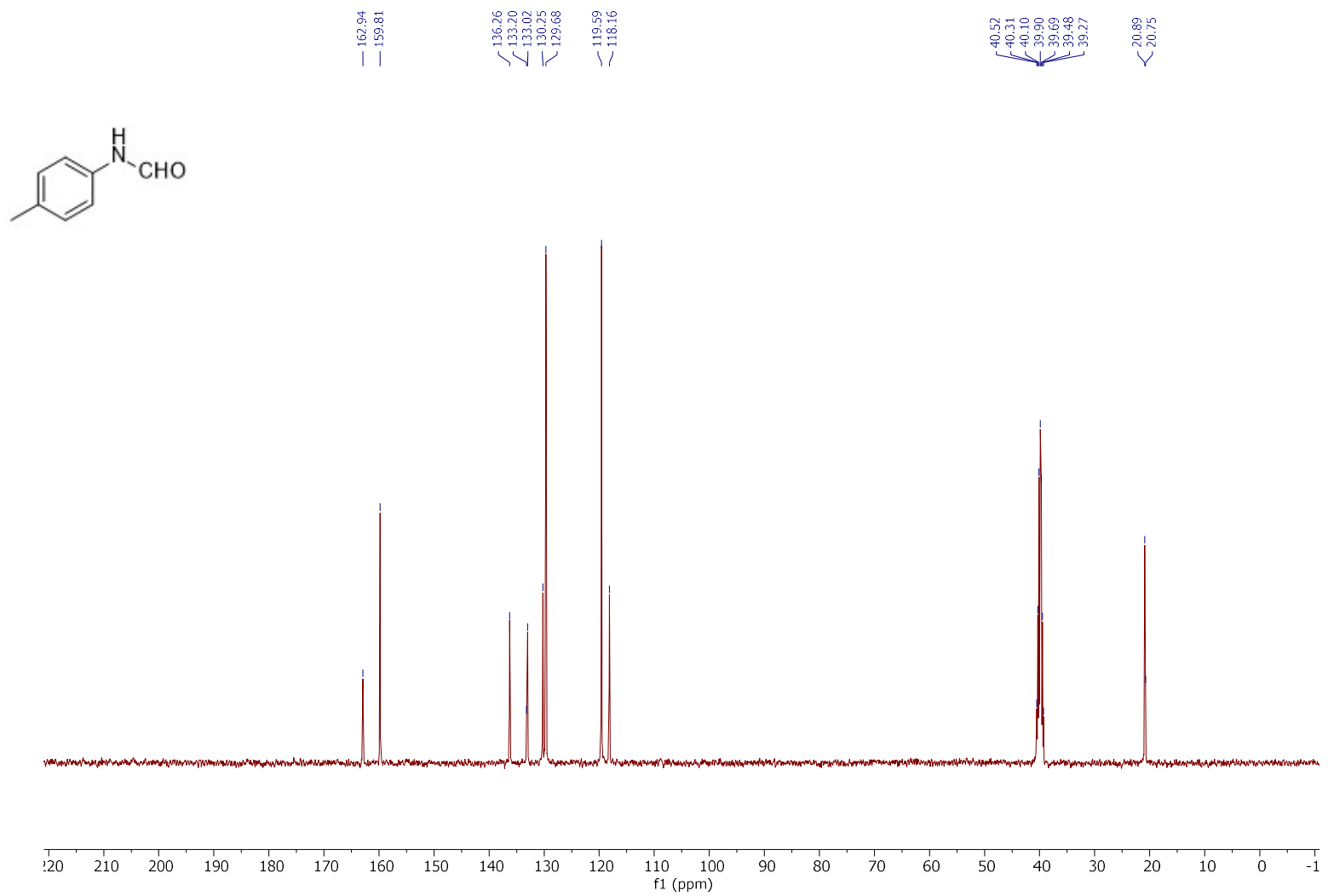


Figure S14: ¹³C NMR Spectra of 2g

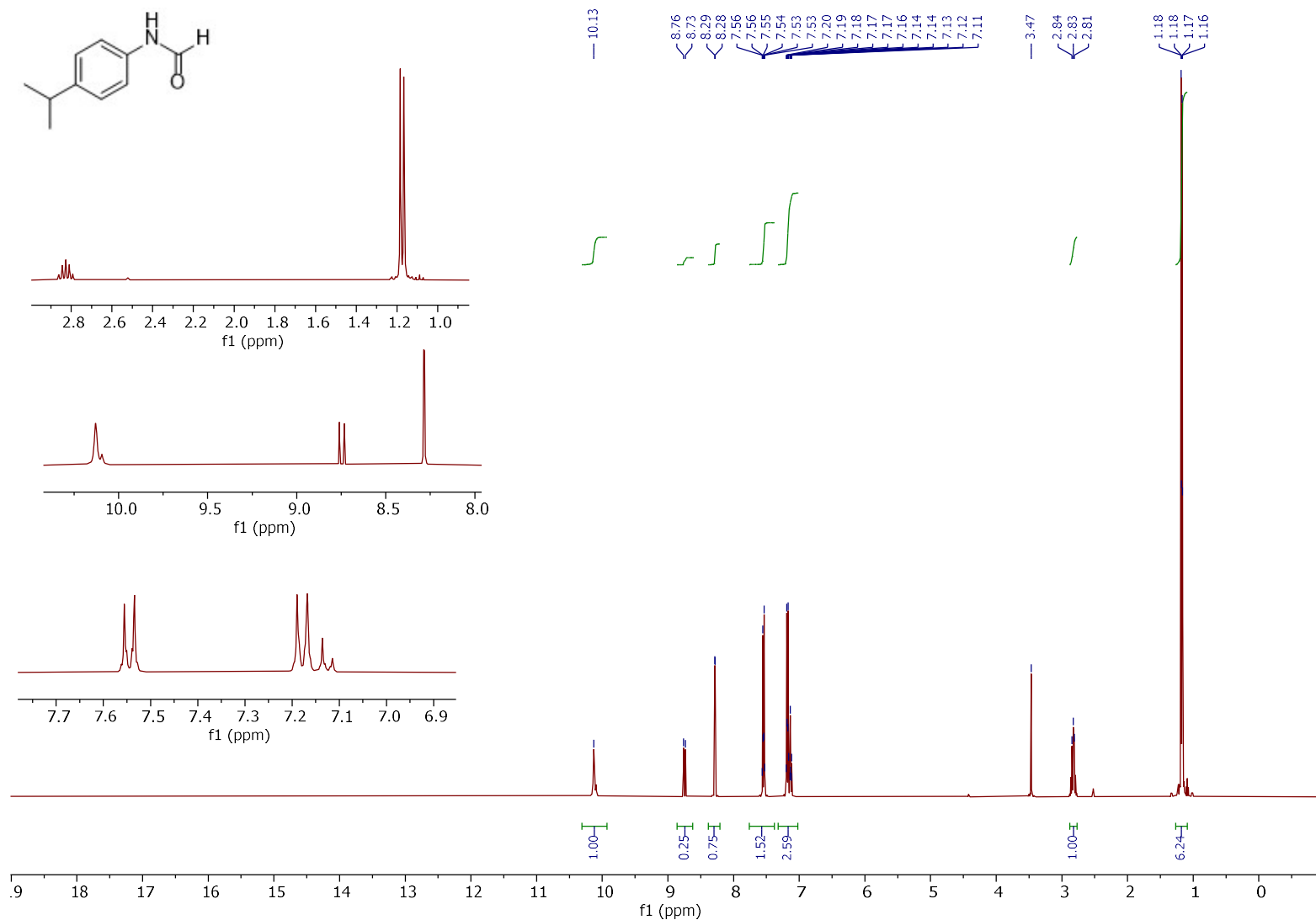


Figure S15: ^1H NMR Spectra of 2h

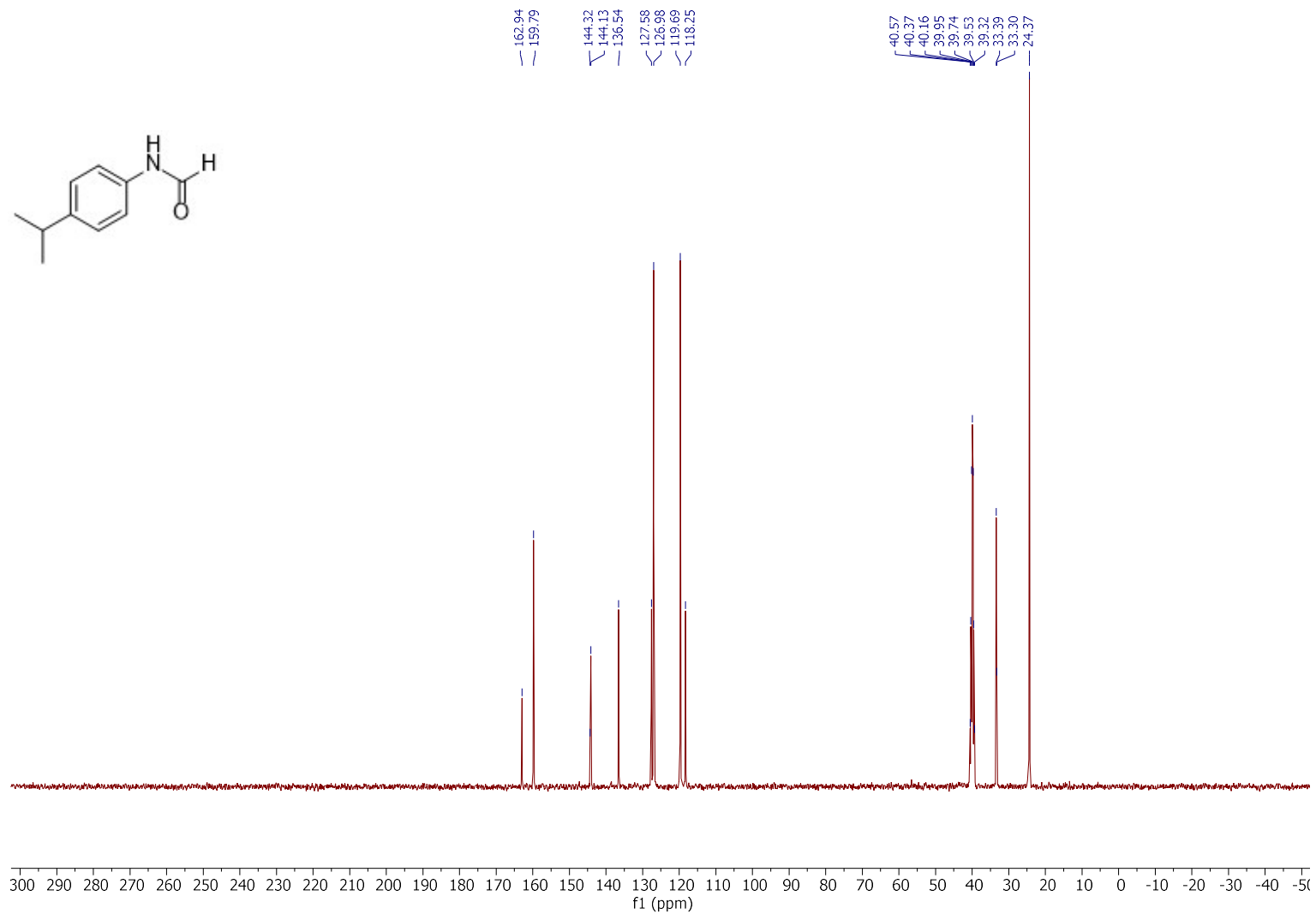


Figure S16: ¹³C NMR Spectra of 2h

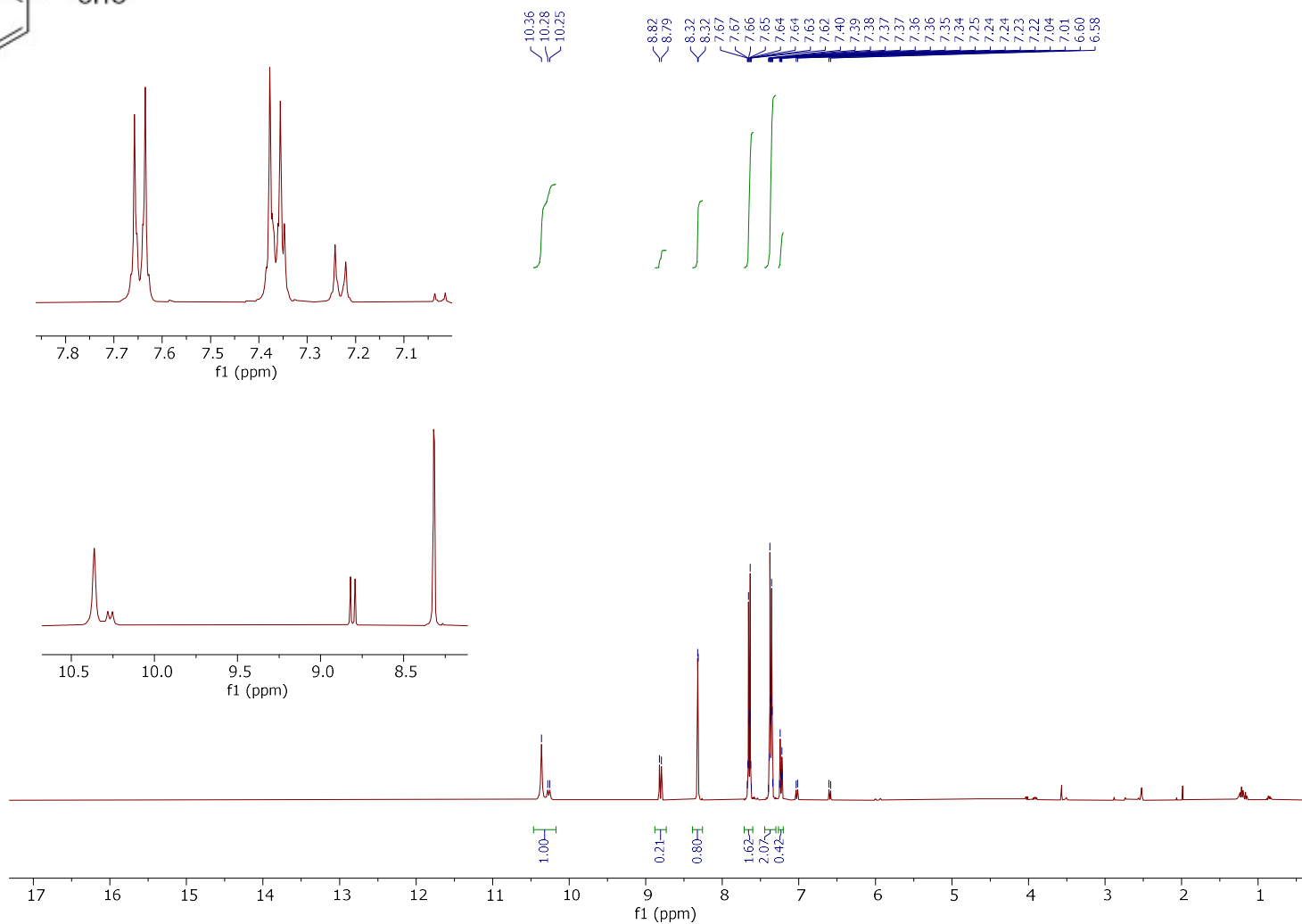
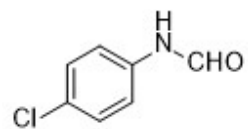


Figure S17: ¹H NMR Spectra of 2i

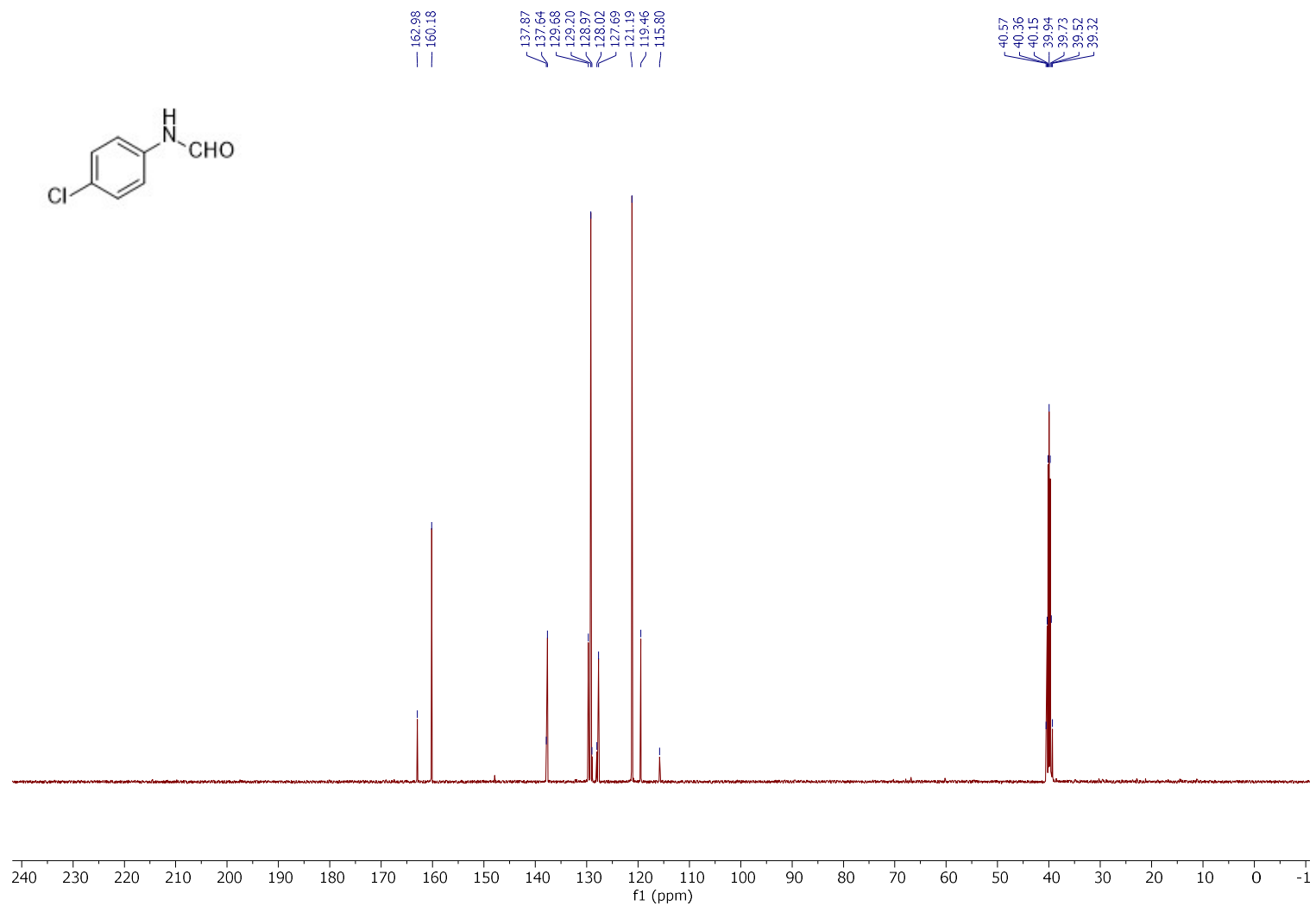


Figure S18: ^{13}C NMR Spectra of 2i

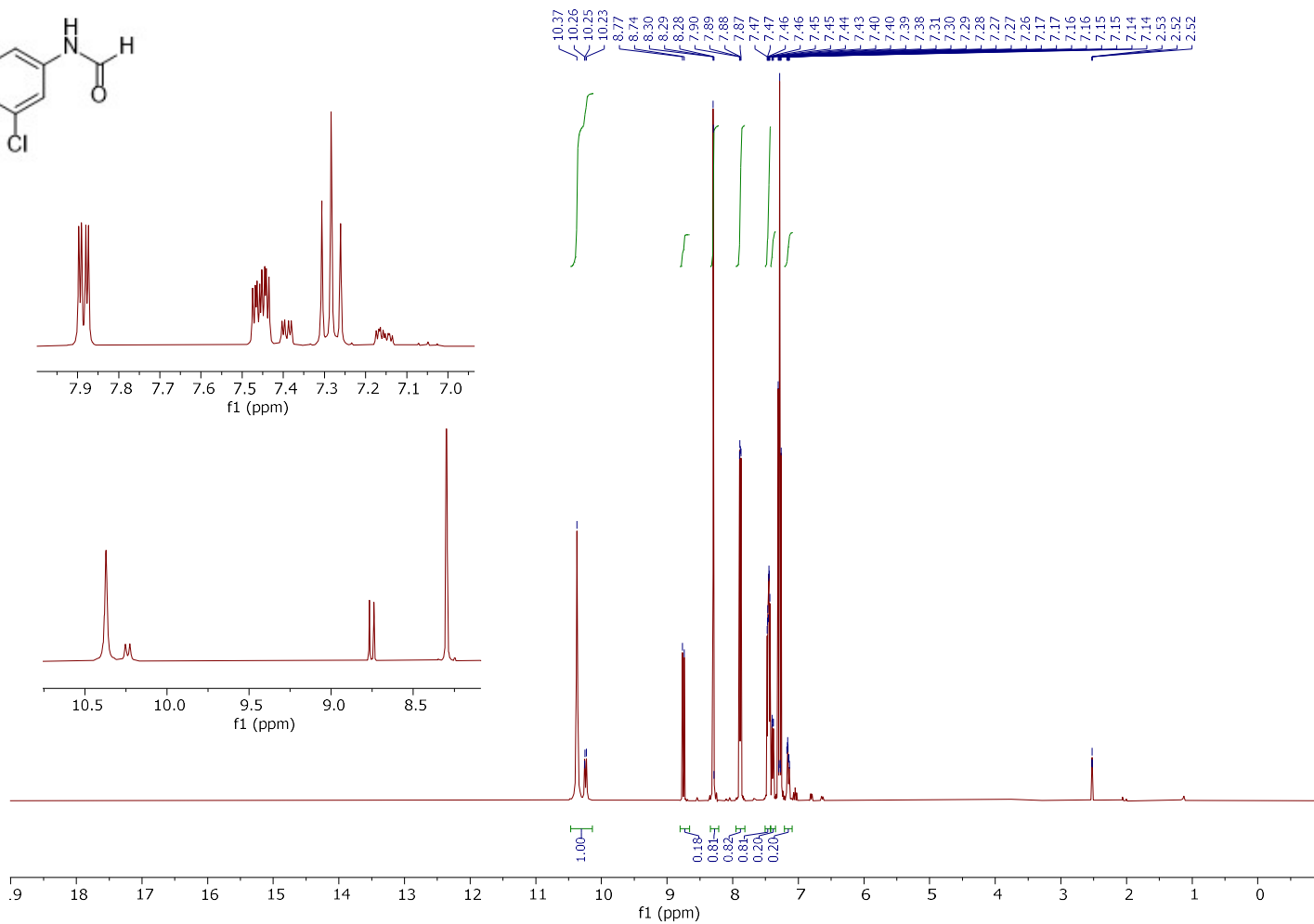
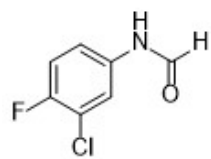


Figure S19: ¹H NMR Spectra of 2j

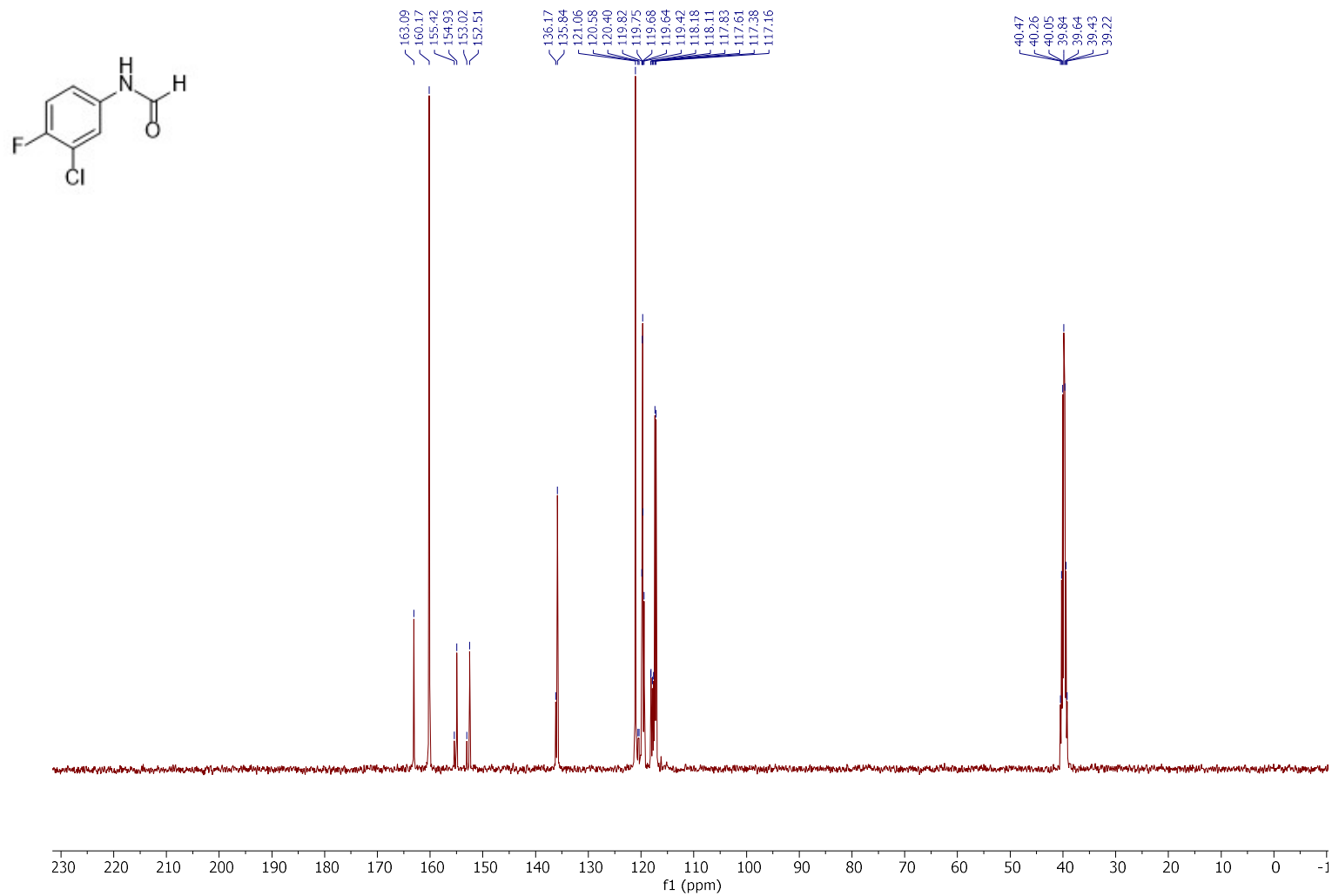


Figure S20: ¹³C NMR Spectra of 2j

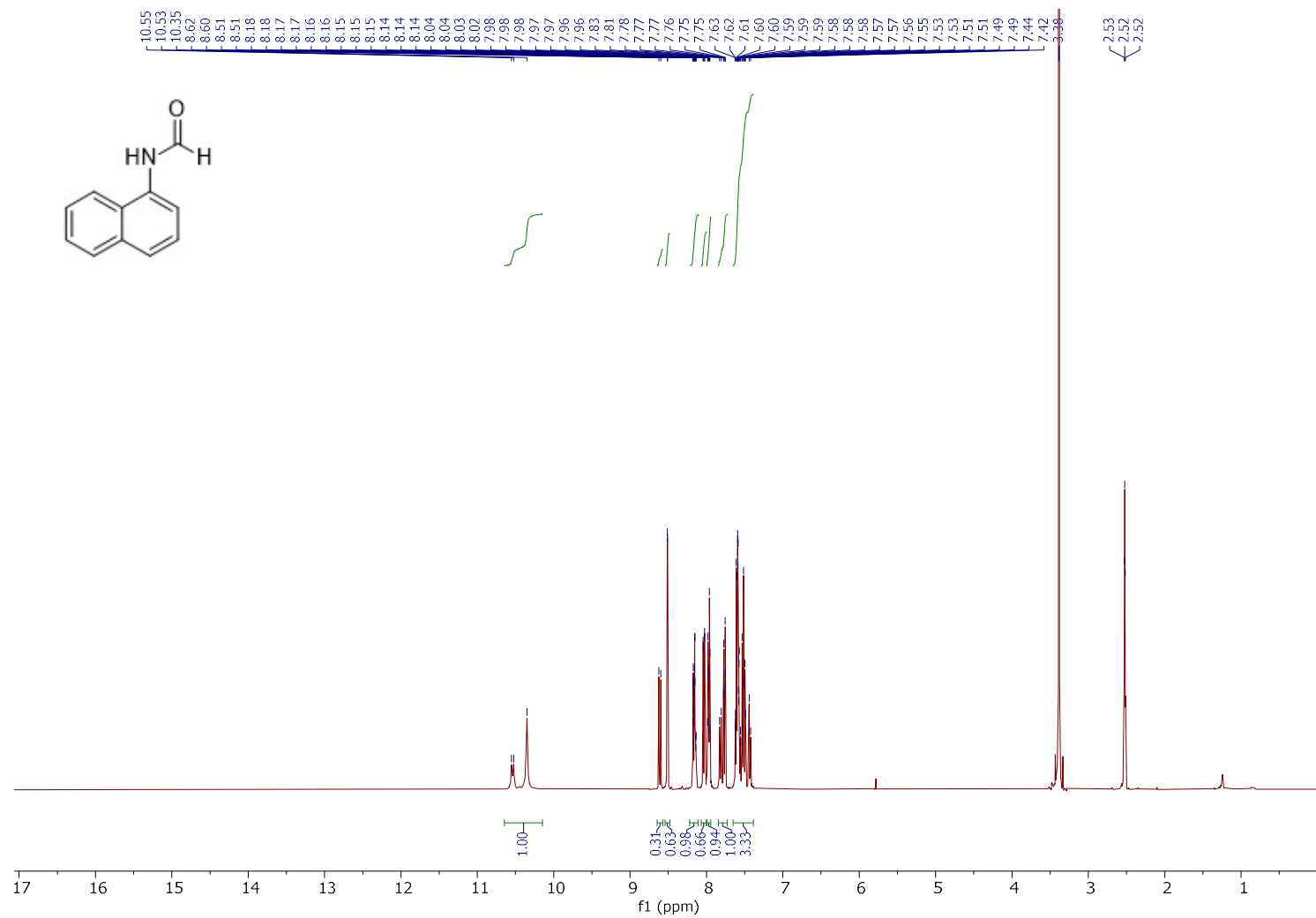


Figure S21: ¹H NMR Spectra of 2n

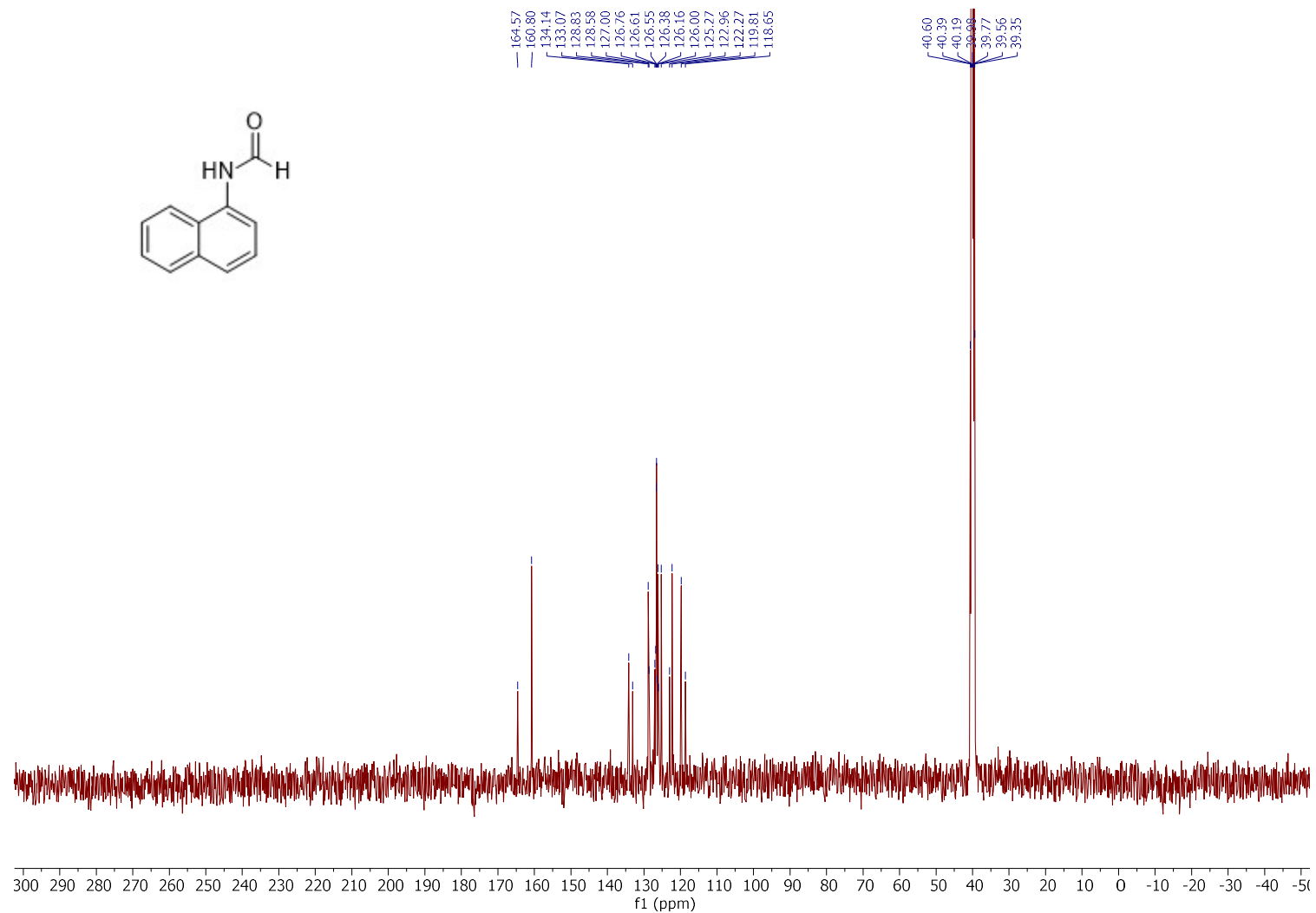


Figure S22: ¹³C NMR Spectra of 2n

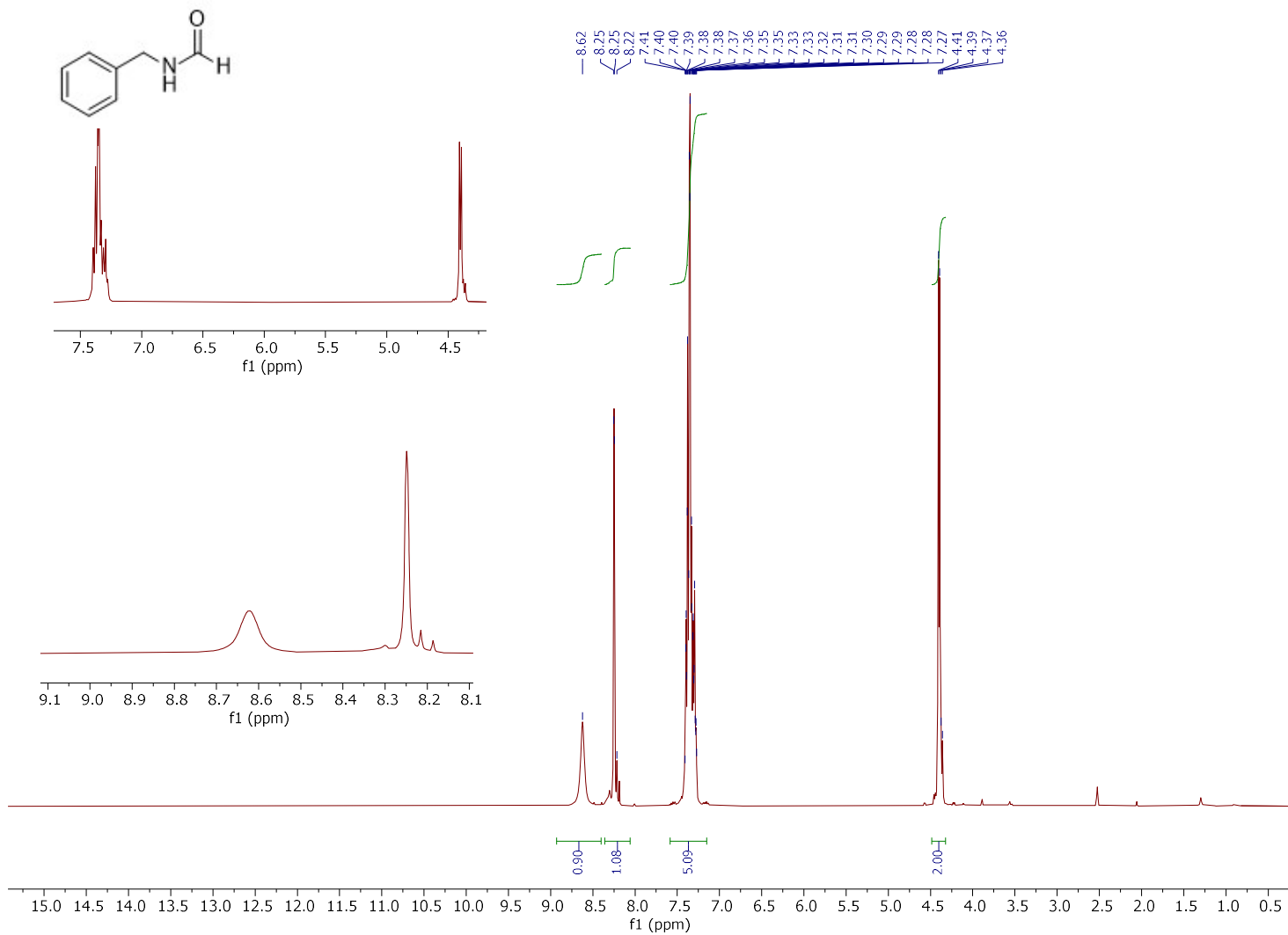


Figure S23: ^1H NMR Spectra of 2p

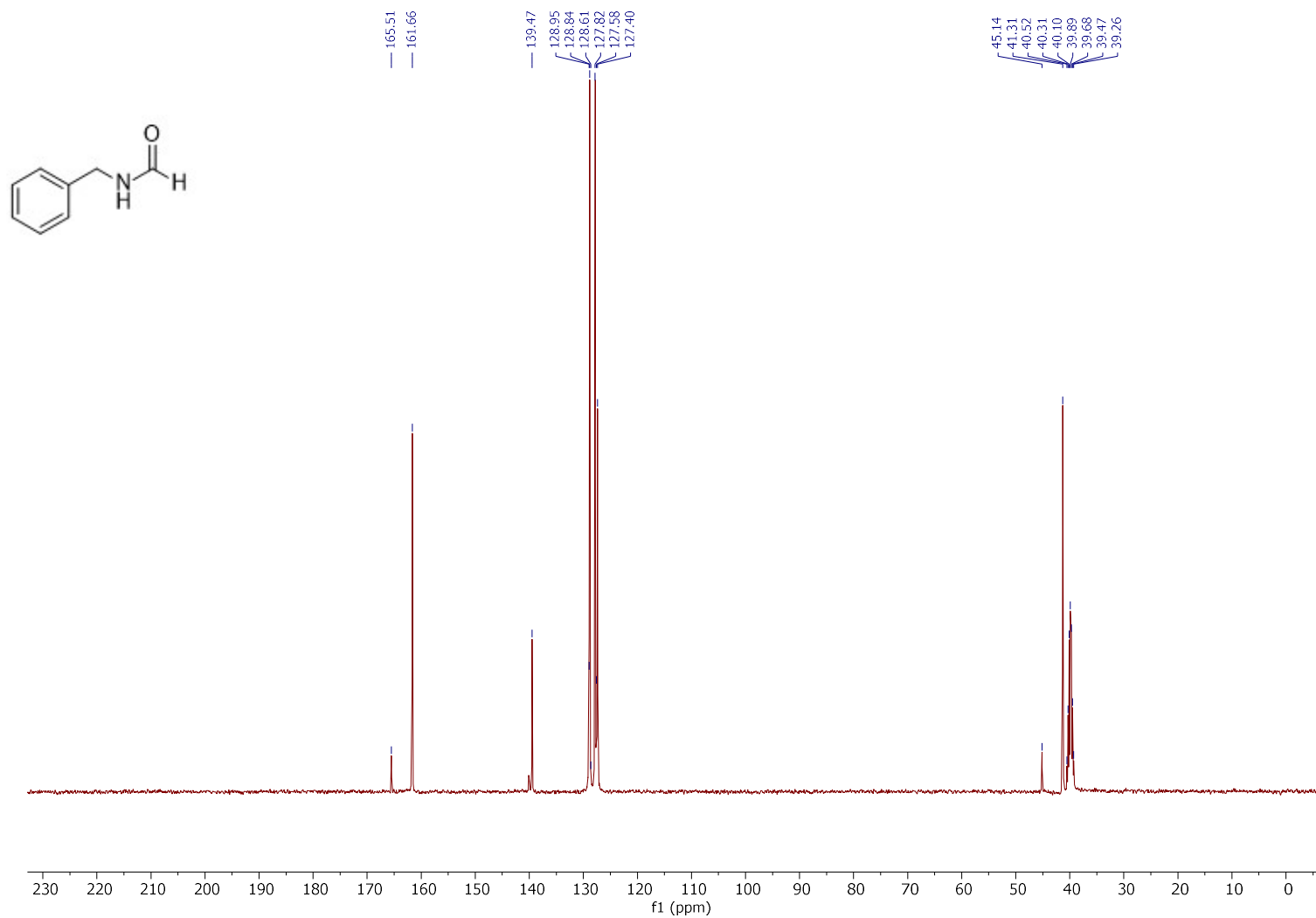


Figure S24: ¹³C NMR Spectra of 2p

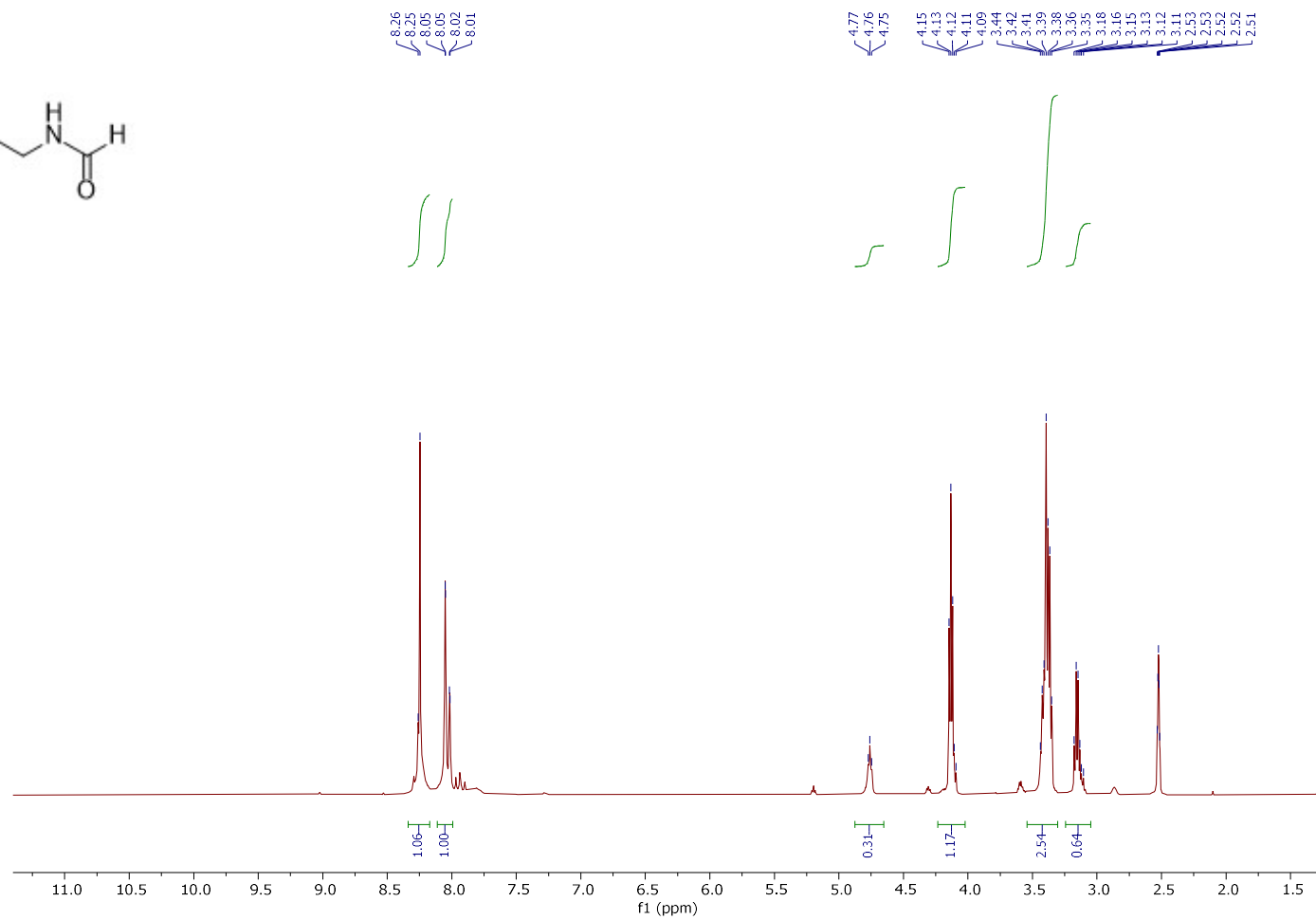
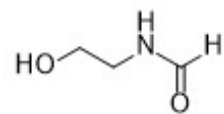


Figure S25: ¹H NMR Spectra of 2q

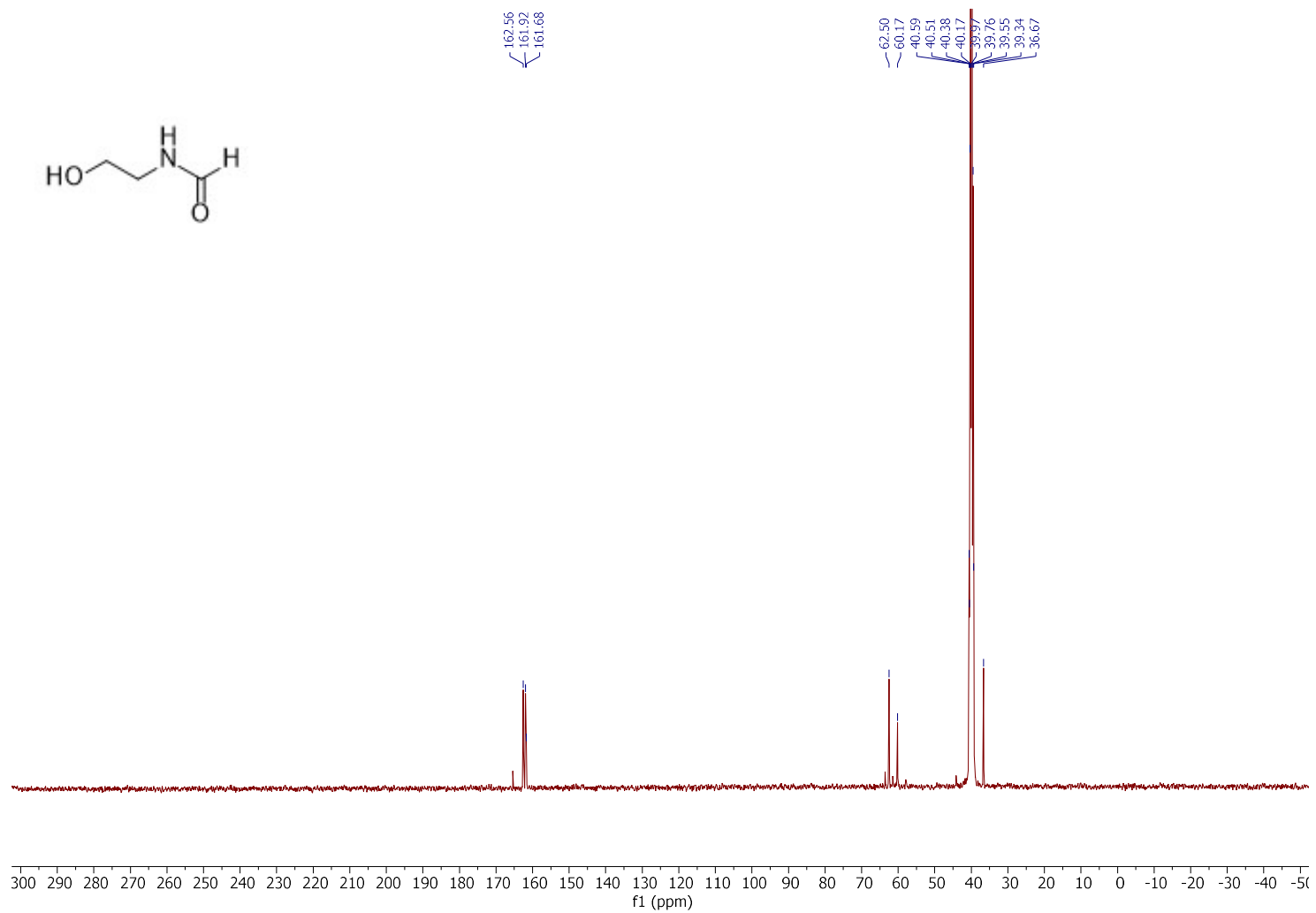


Figure S26: ¹³C NMR Spectra of 2q

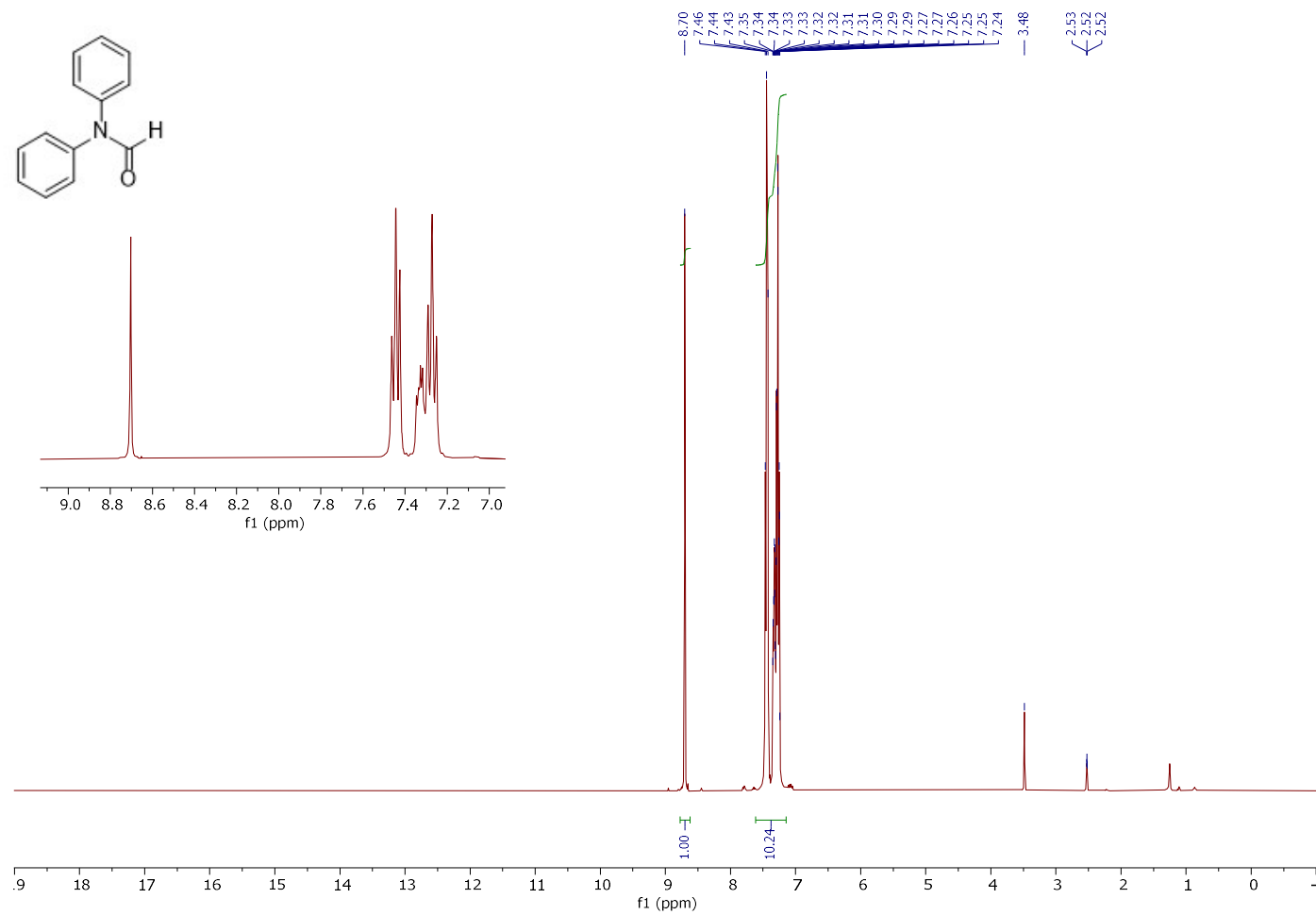


Figure S25: ¹H NMR Spectra of 2r

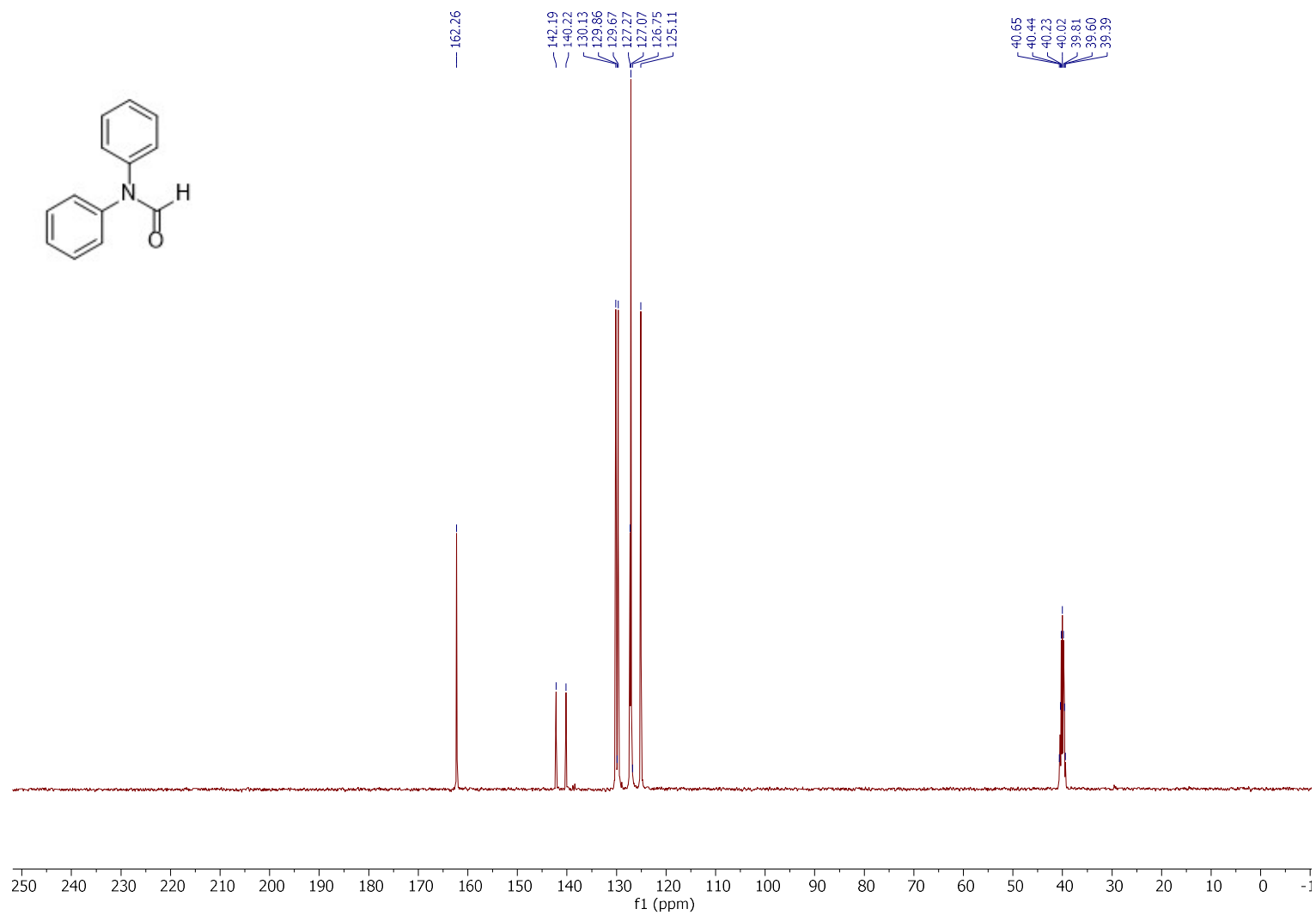


Figure S26: ¹³C NMR Spectra of 2r

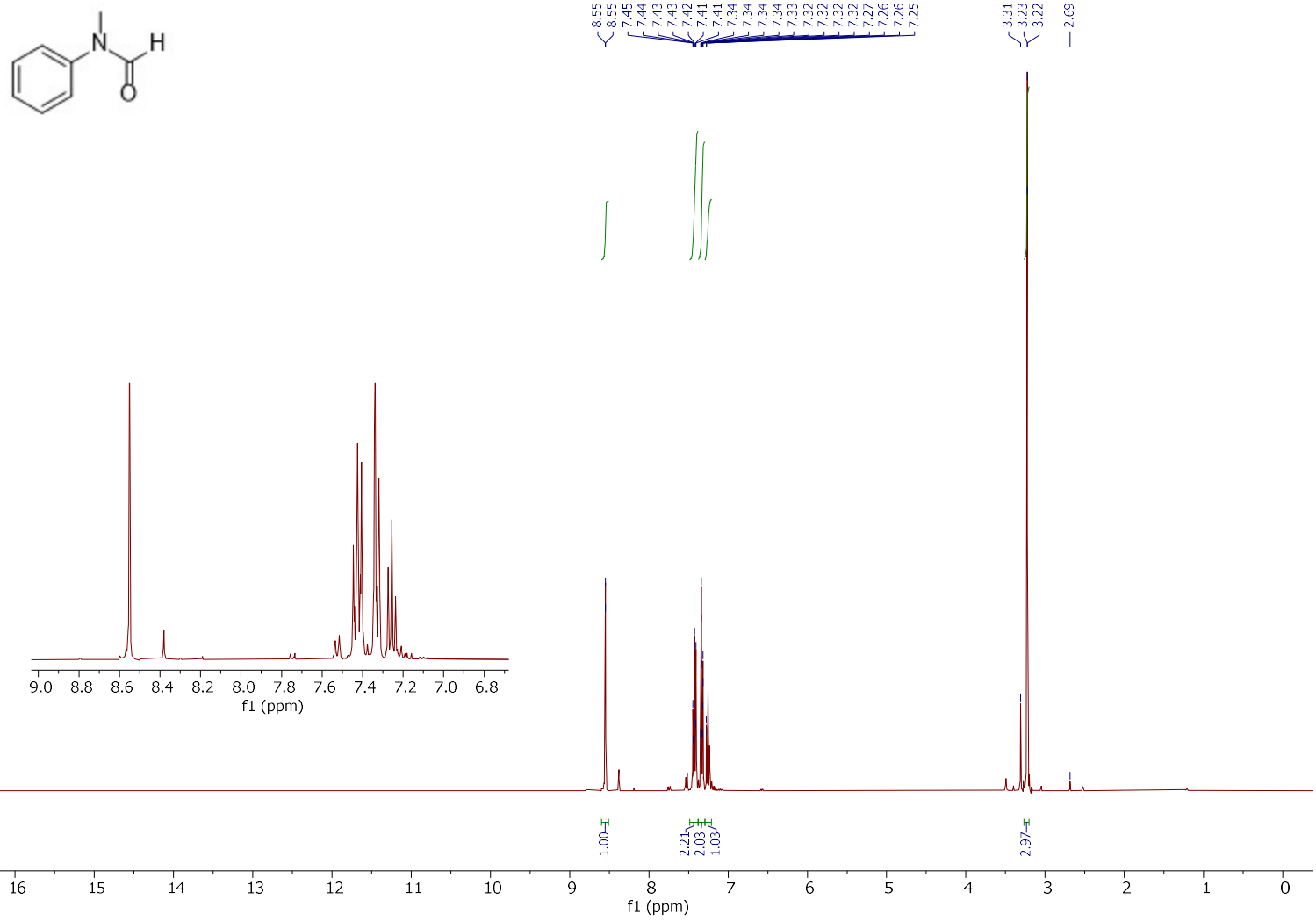


Figure S29: ¹H NMR Spectra of 2s

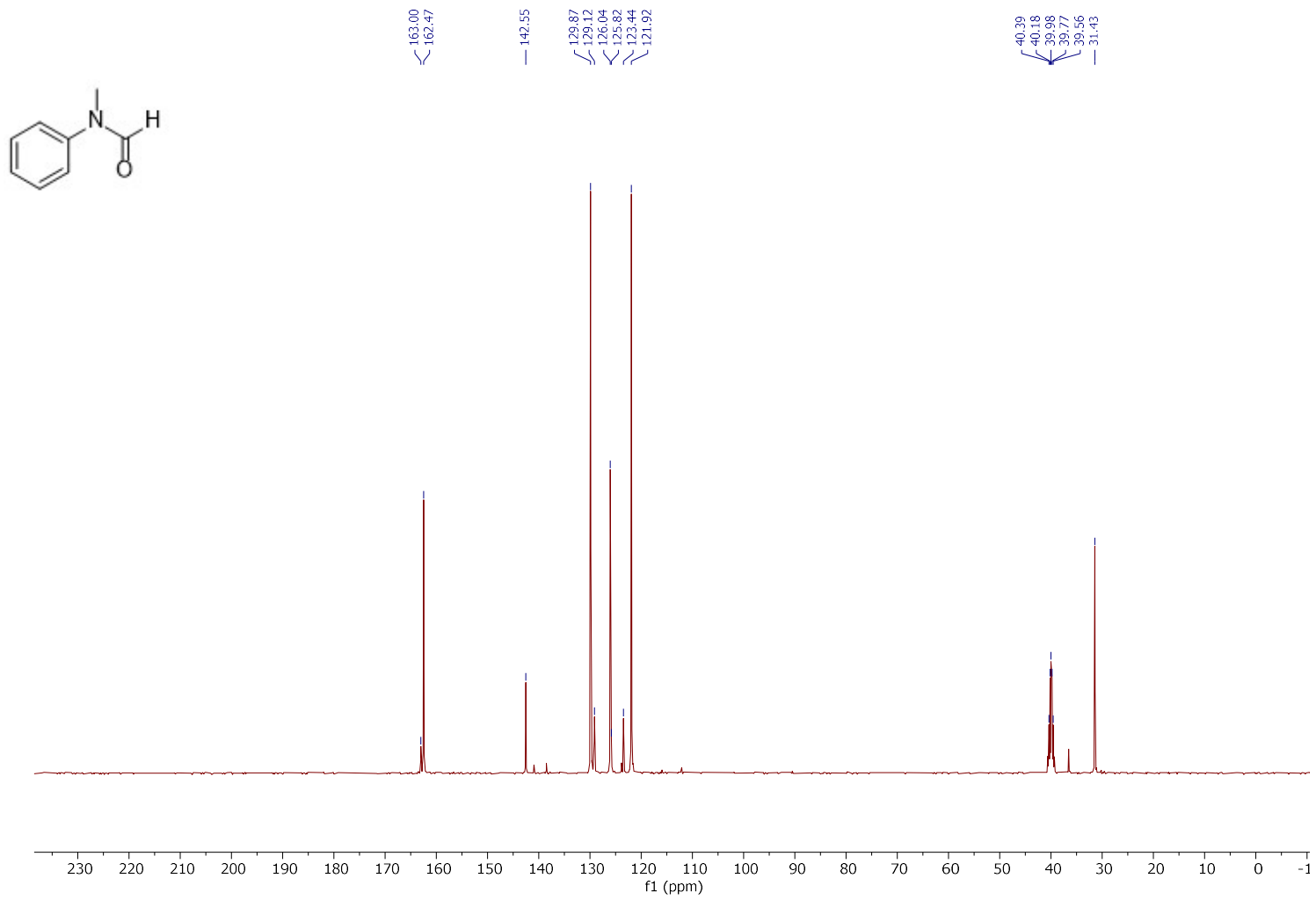


Figure S30: ¹³C NMR Spectra of 2s

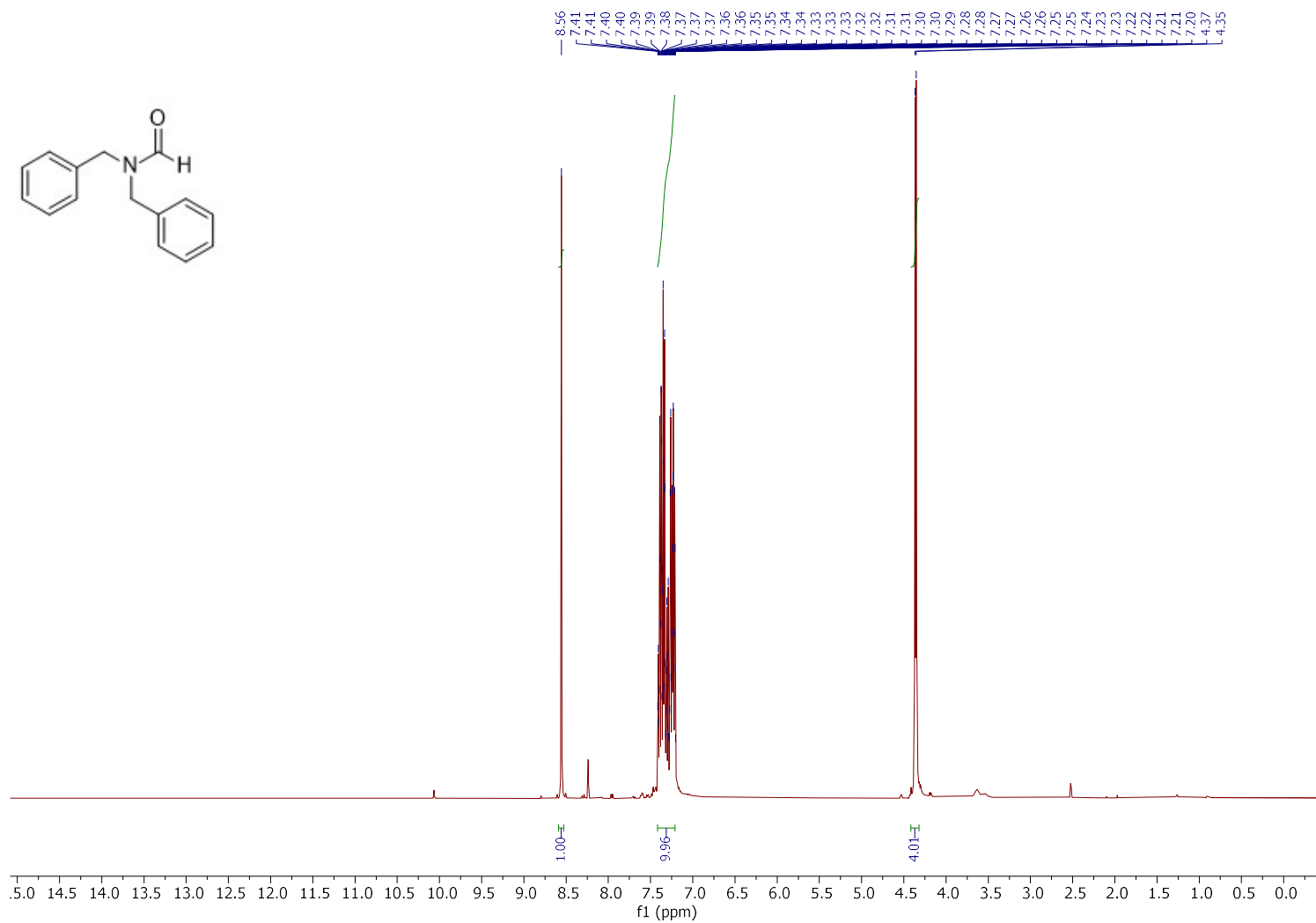


Figure S27: ¹H NMR Spectra of 2t

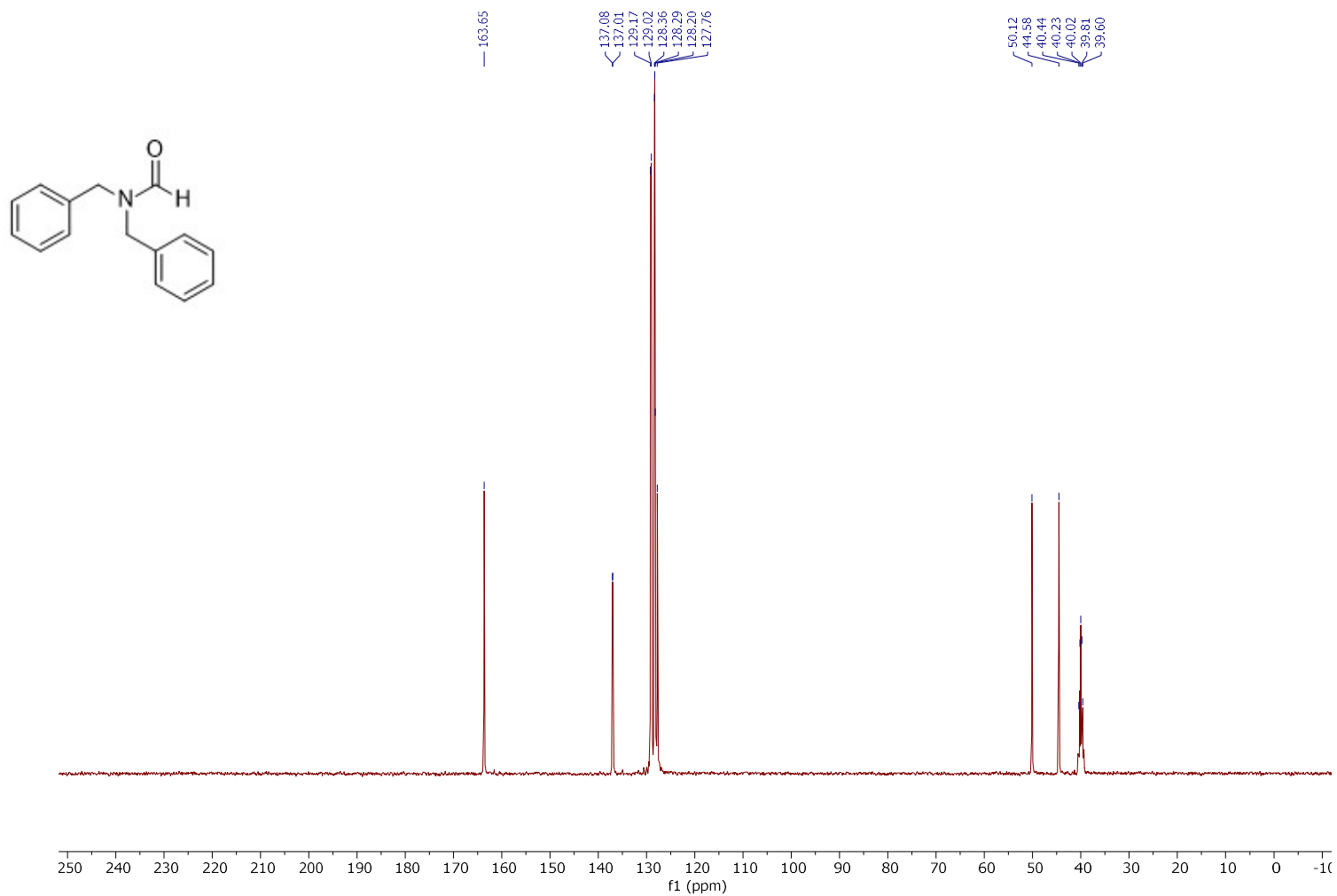


Figure S28: ¹³C NMR Spectra of 2t

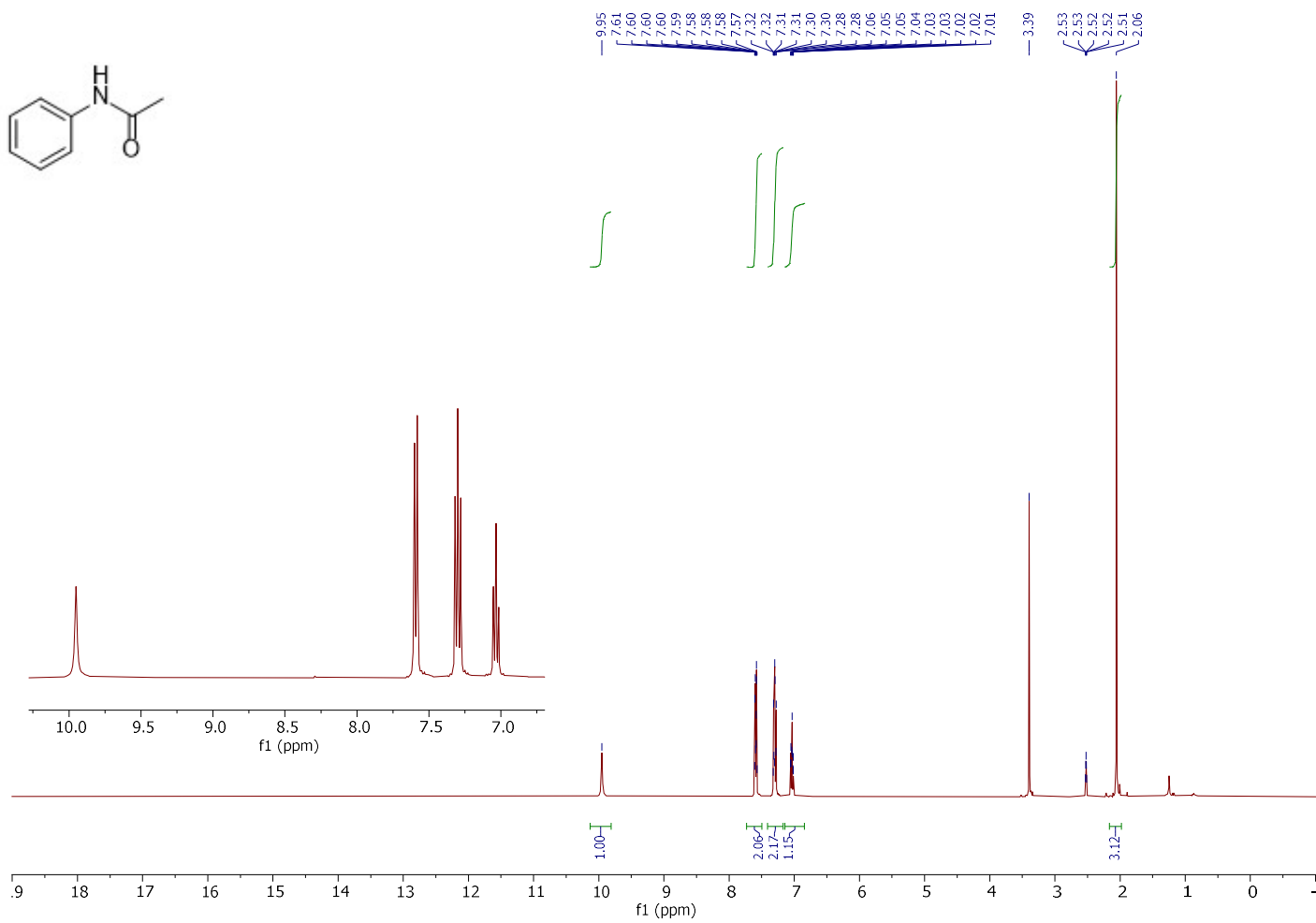


Figure S31: ¹H NMR Spectra of 3a

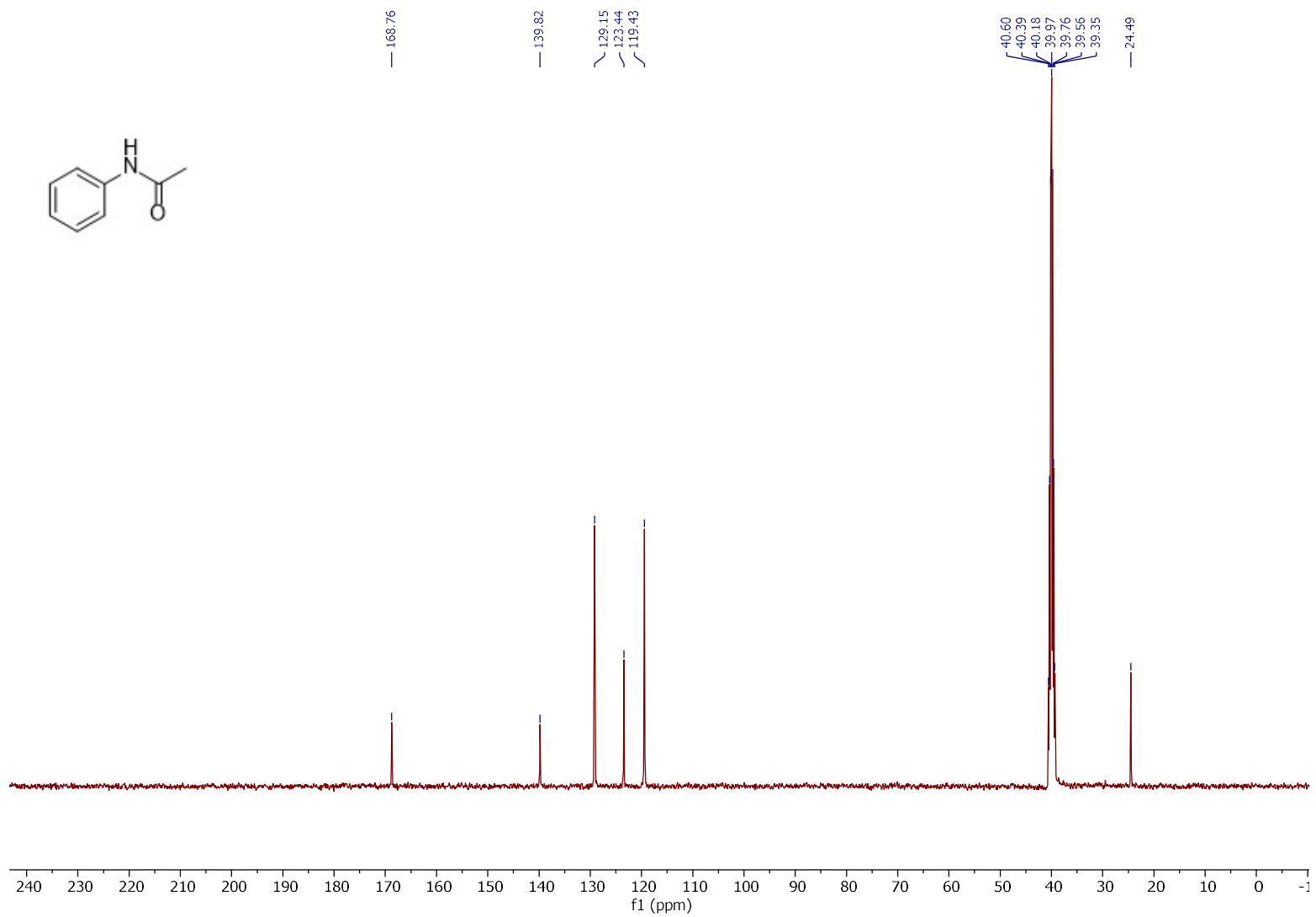


Figure S32: ¹³C NMR Spectra of 3a

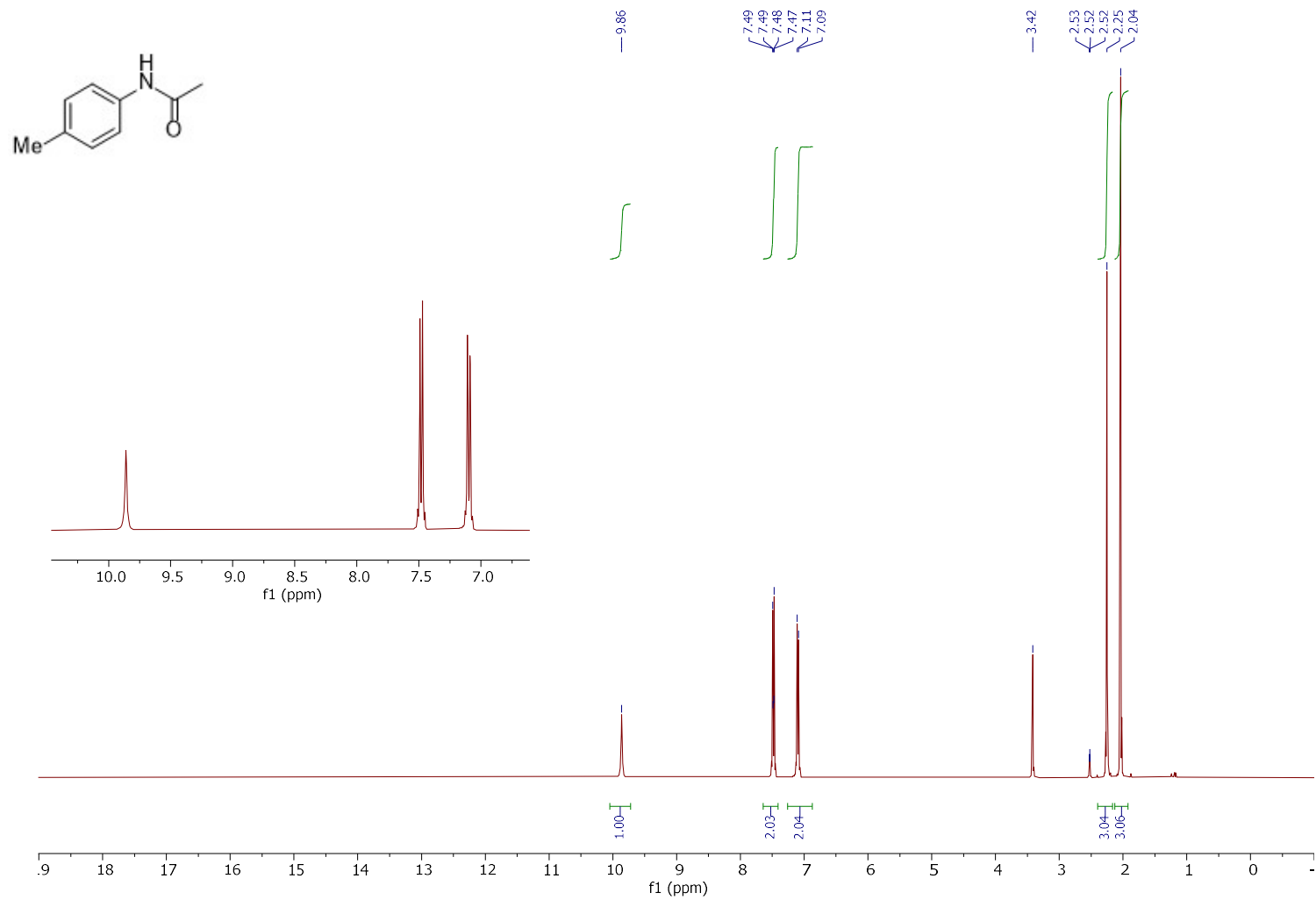


Figure S33: ¹H NMR Spectra of **3b**

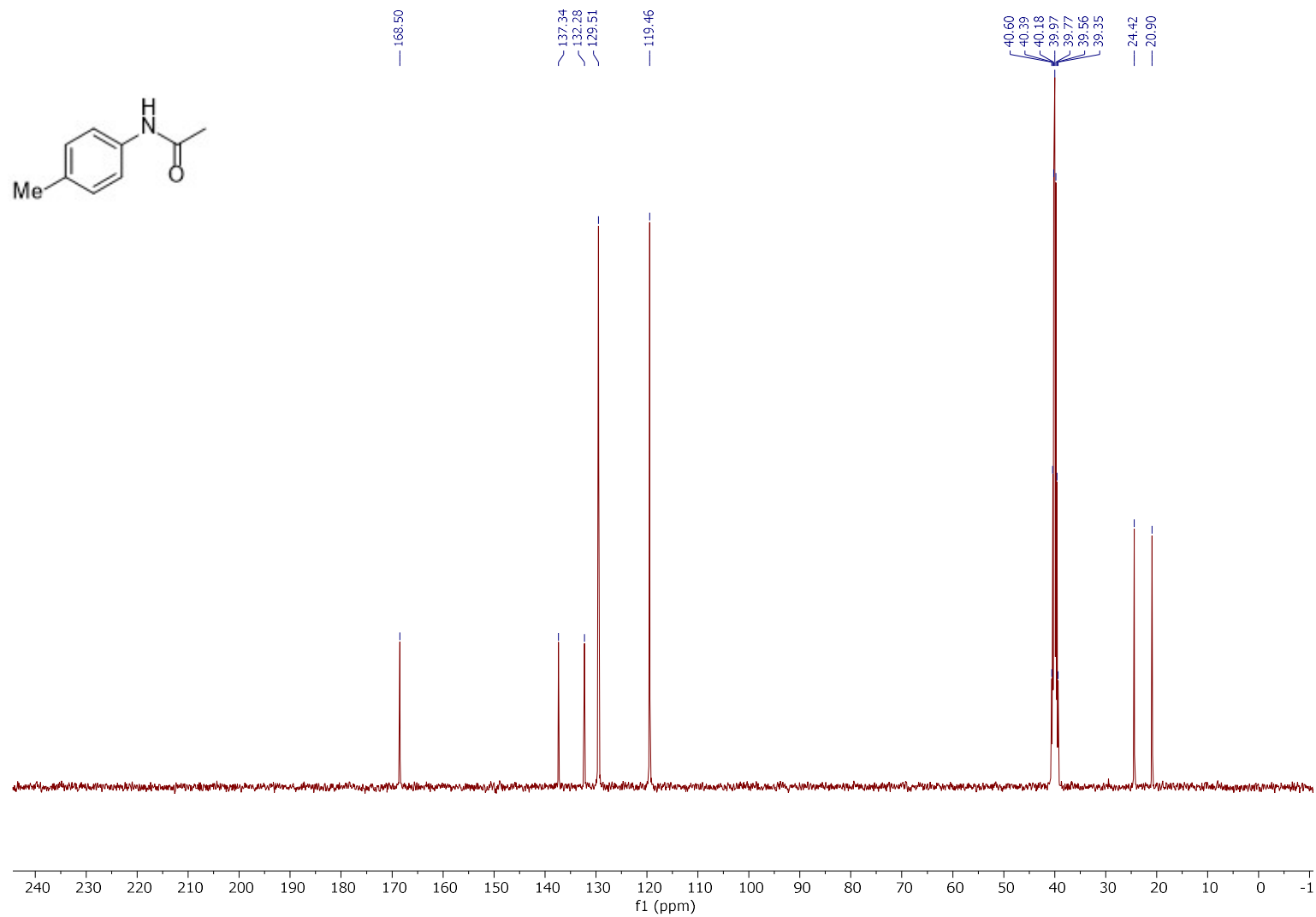


Figure S34: ¹³C NMR Spectra of 3b

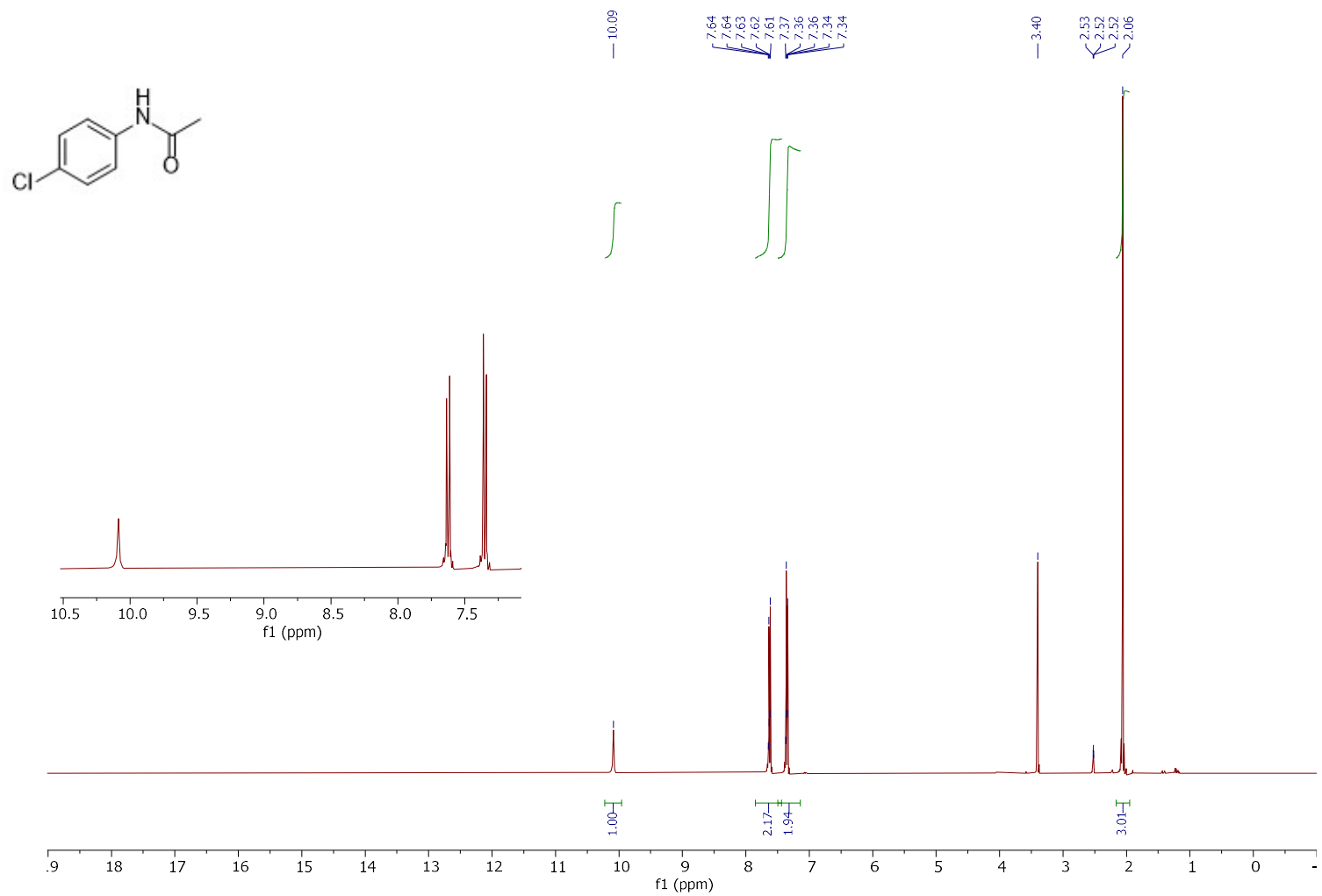


Figure S35: ¹H NMR Spectra of 3c

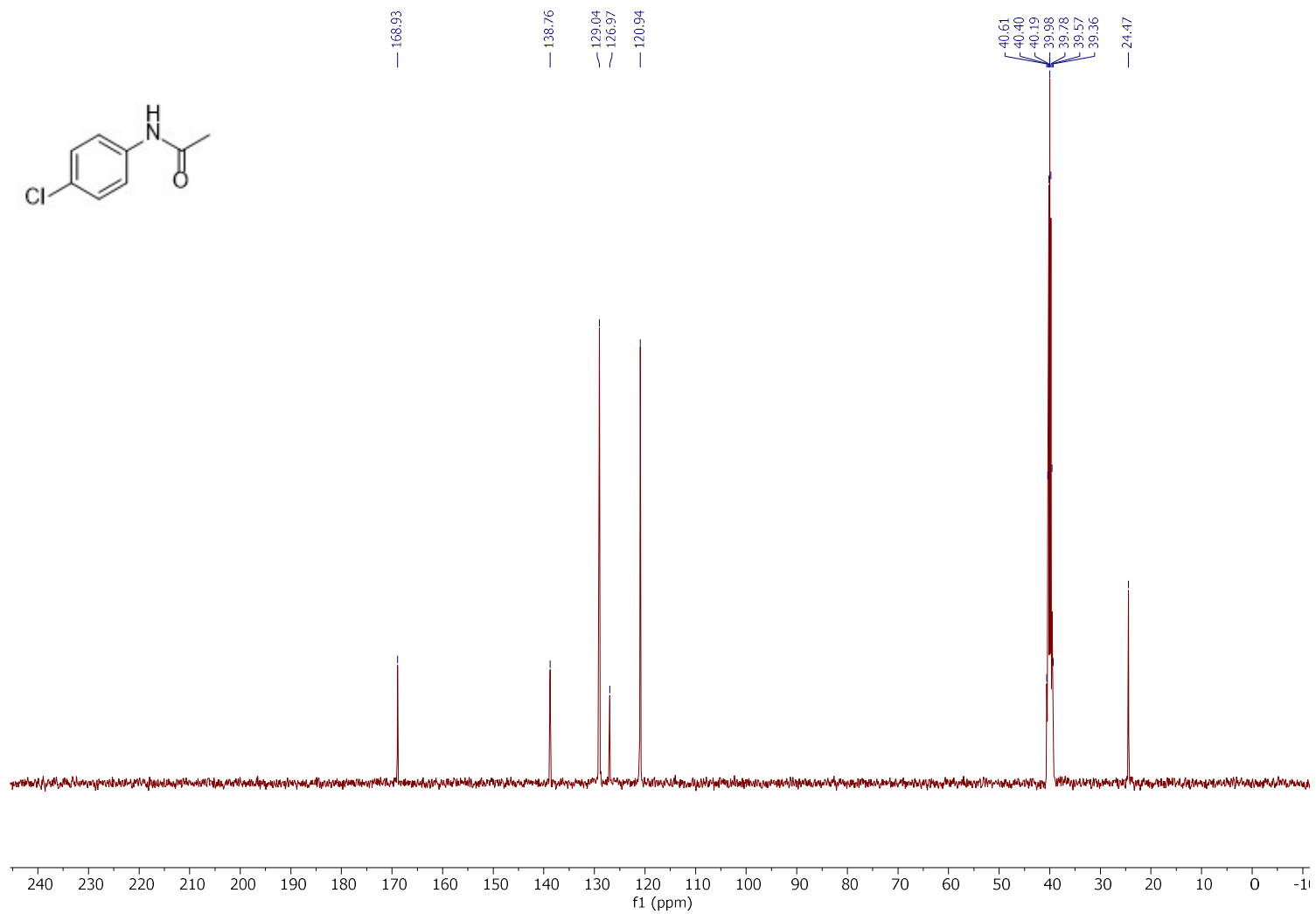


Figure S36: ¹³C NMR Spectra of 3c

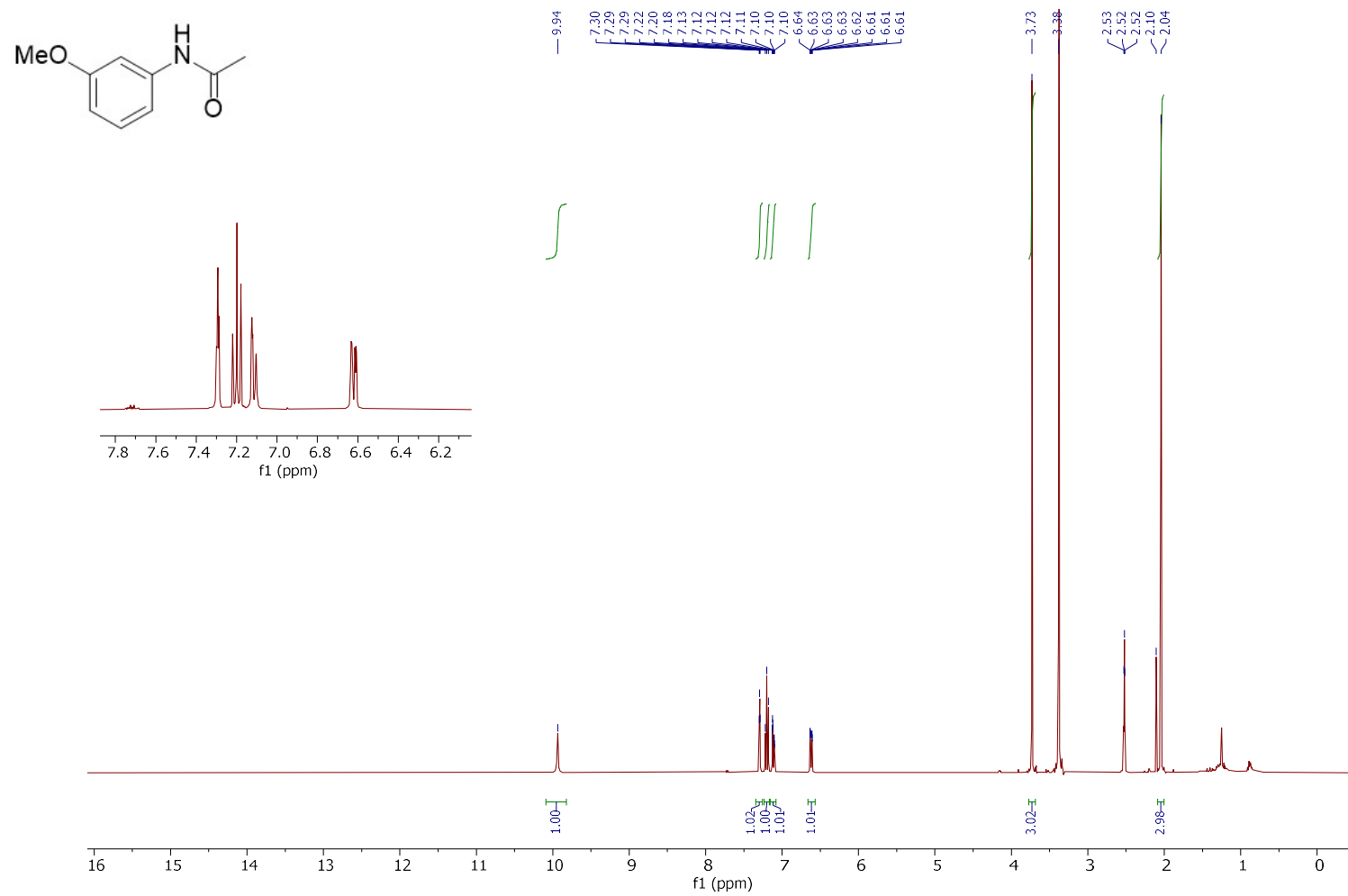


Figure S37: ¹H NMR Spectra of 3d

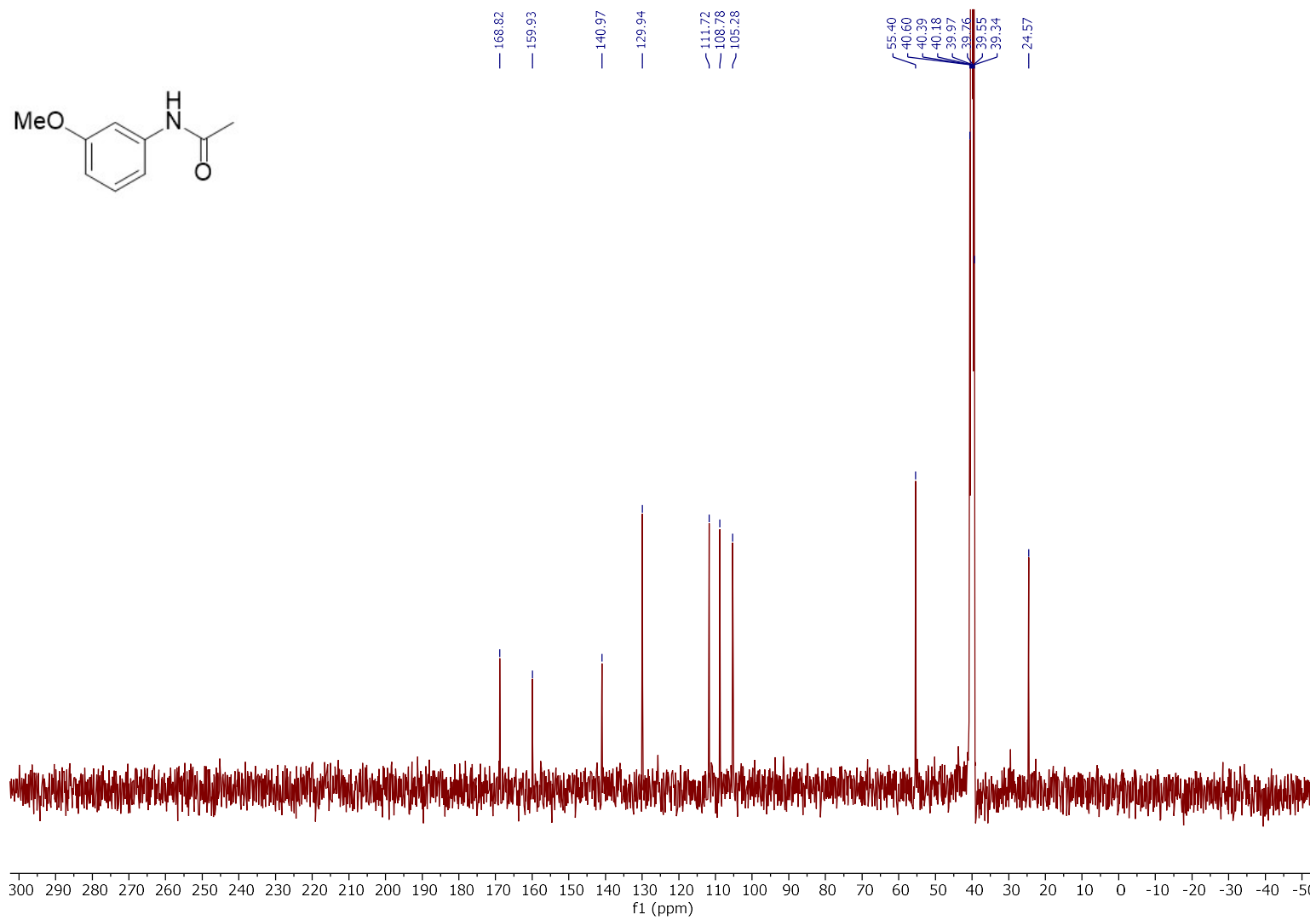


Figure S38: ¹³C NMR Spectra of 3d

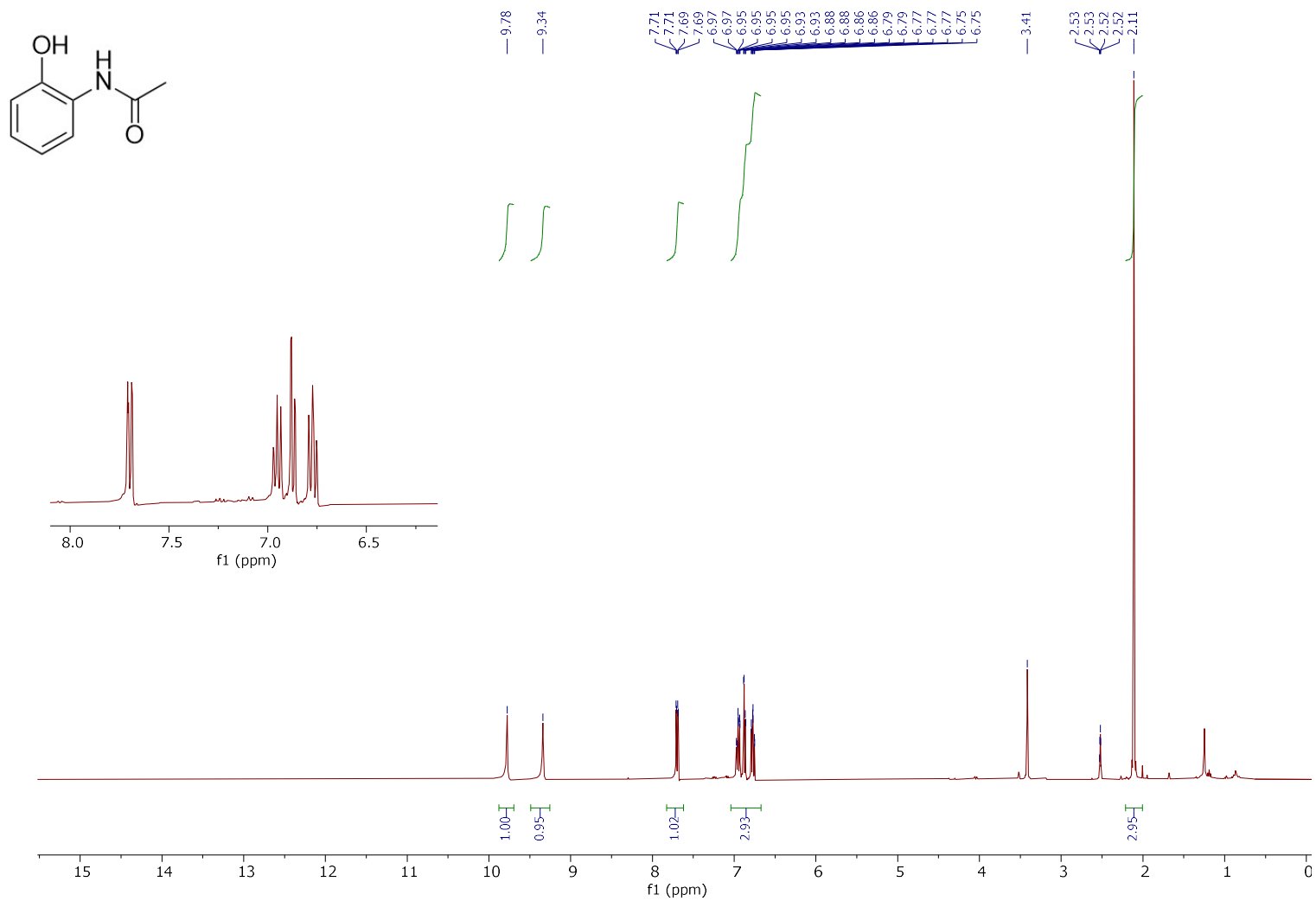


Figure S39: ¹H NMR Spectra of 3e

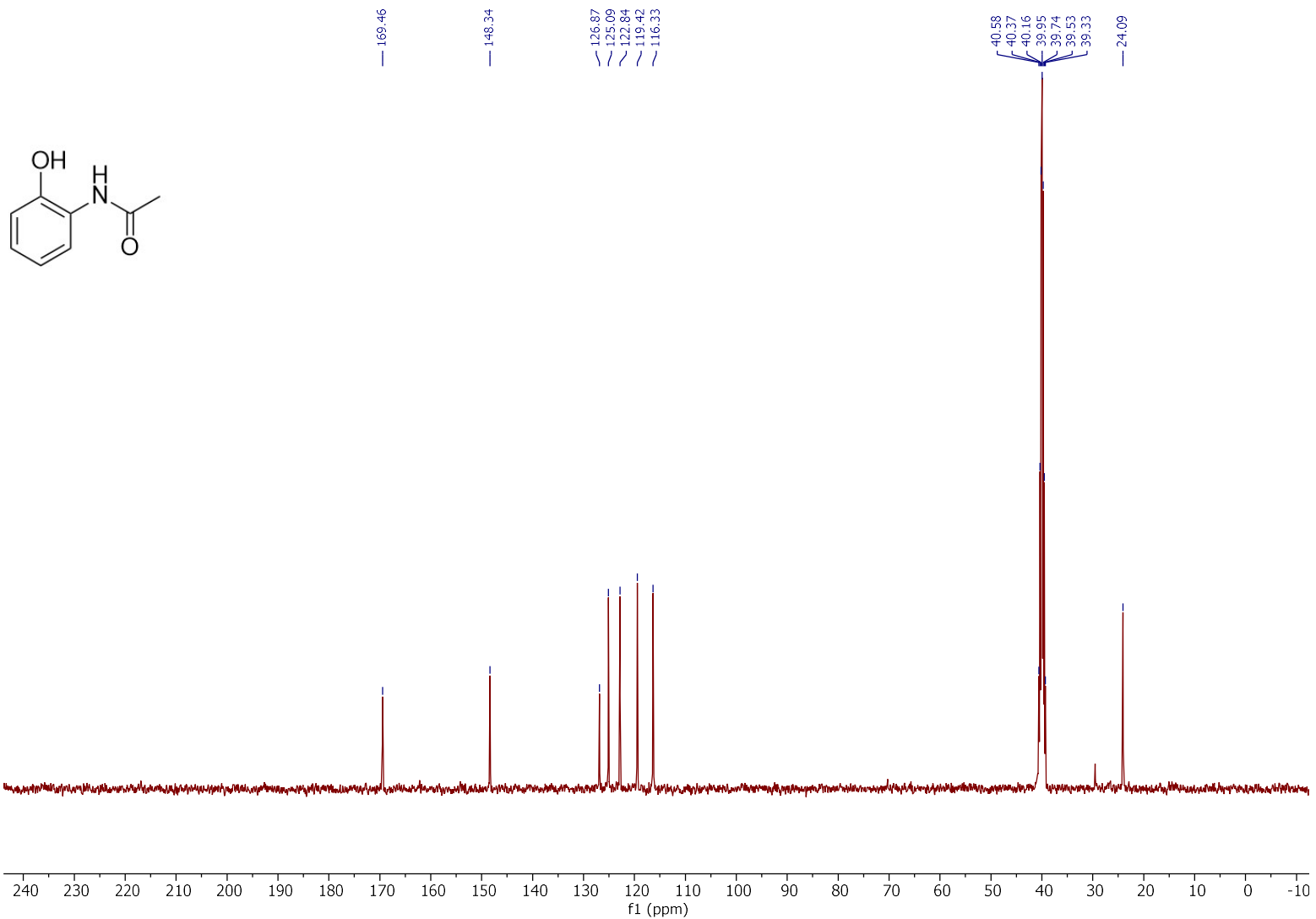


Figure S40: ¹³C NMR Spectra of 3e

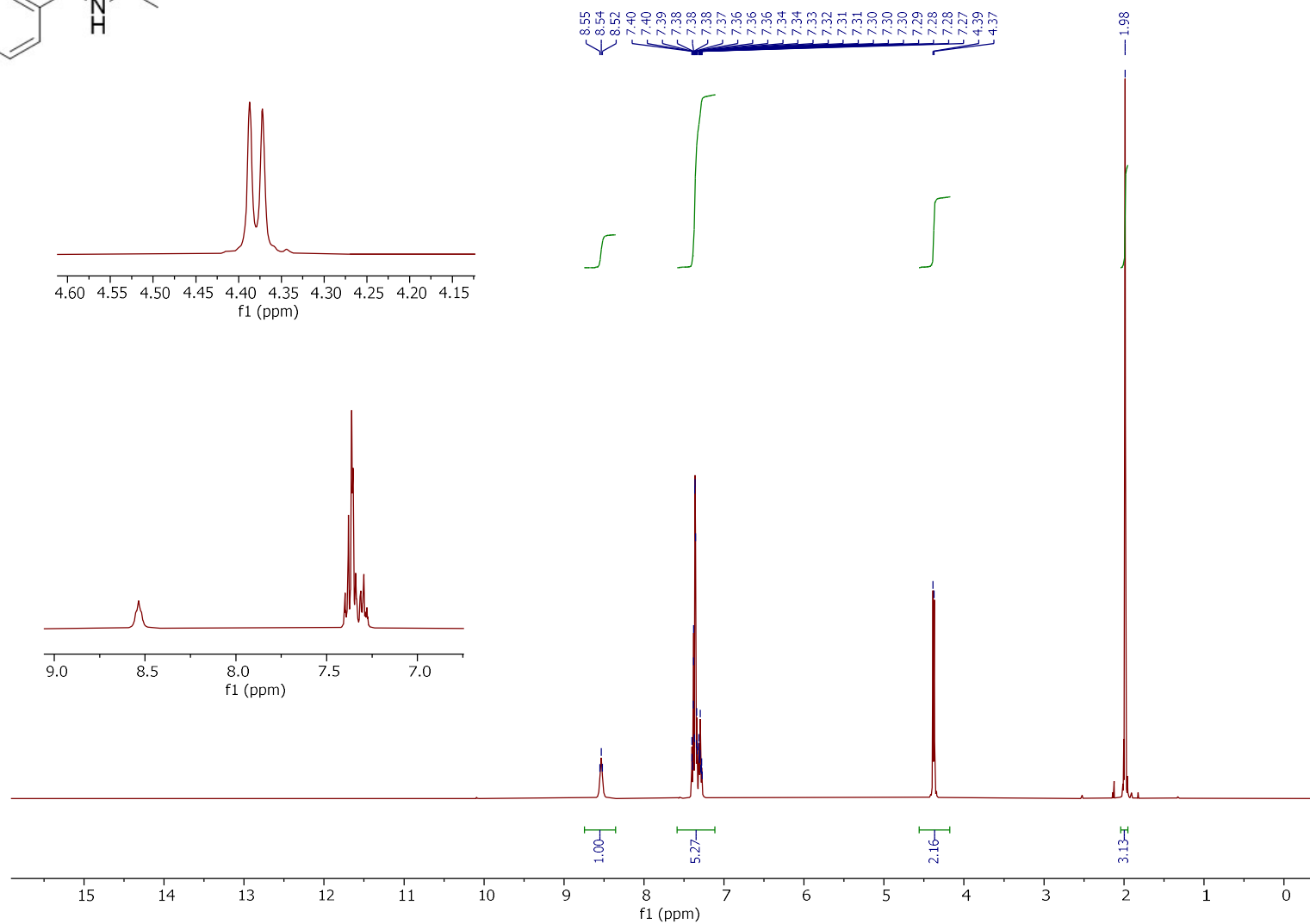
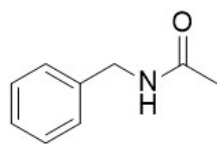


Figure S41: ¹H NMR Spectra of 3f

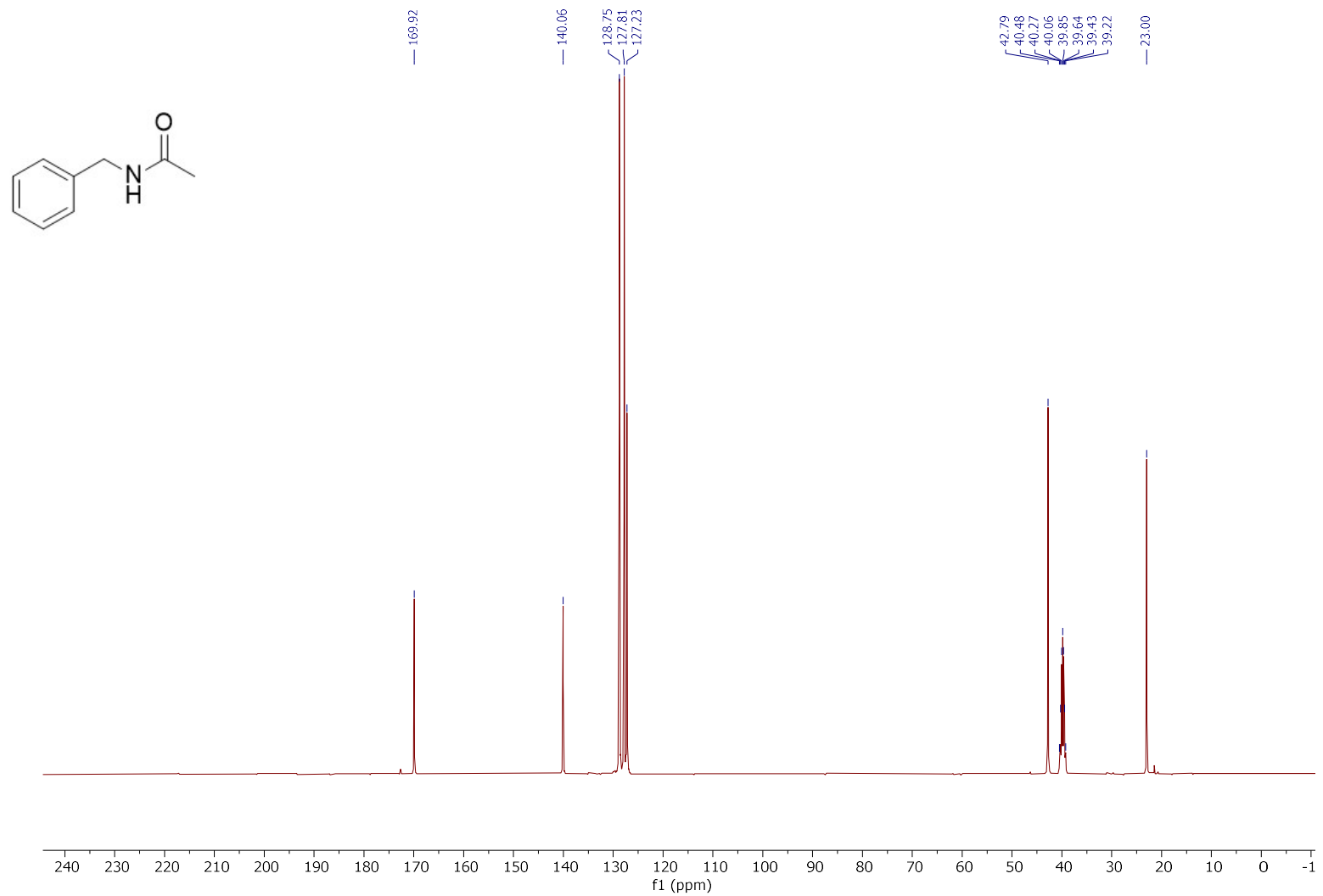


Figure S42: ^{13}C NMR Spectra of 3f

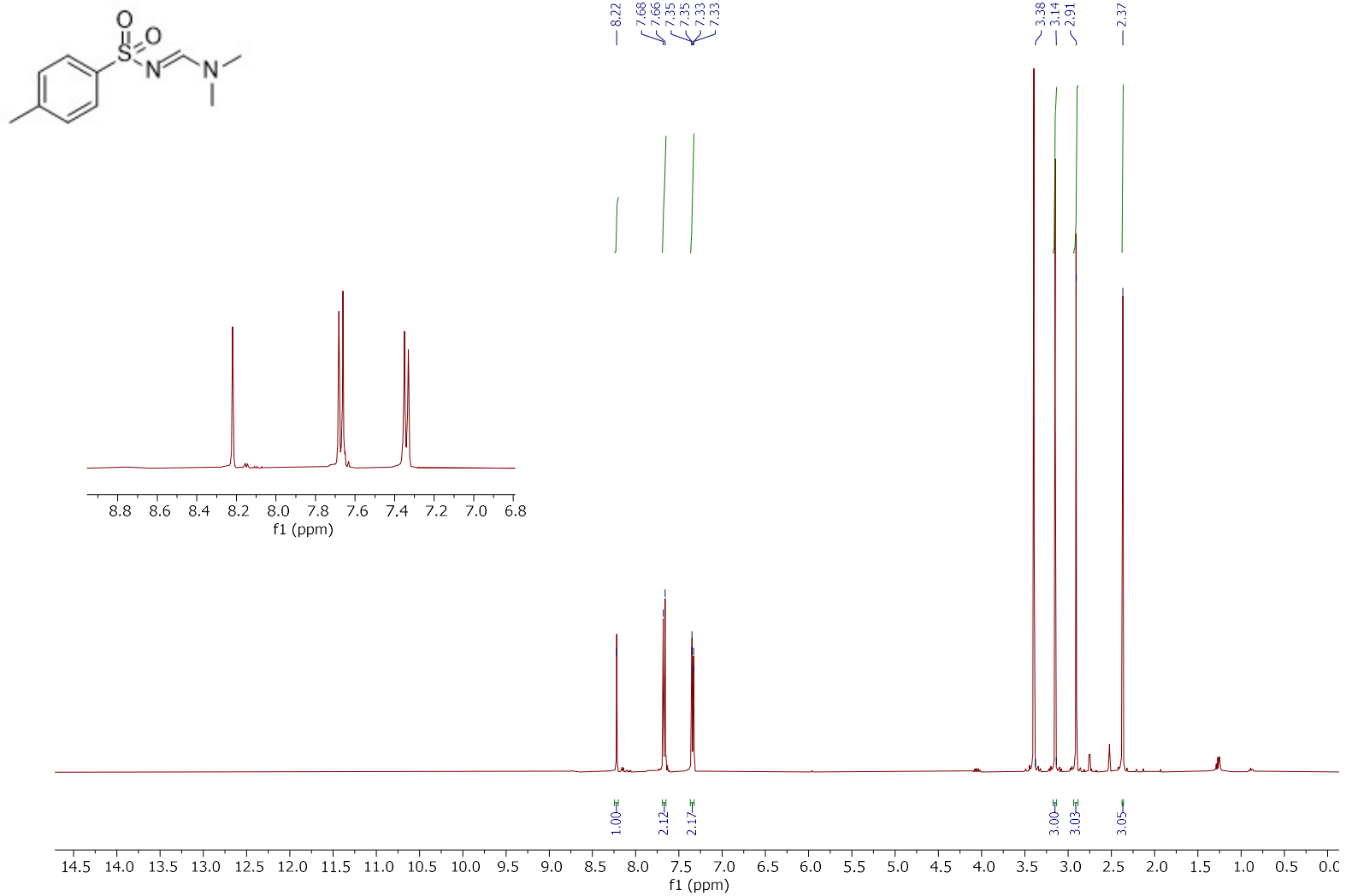


Figure S43: ¹H NMR Spectra of 5a

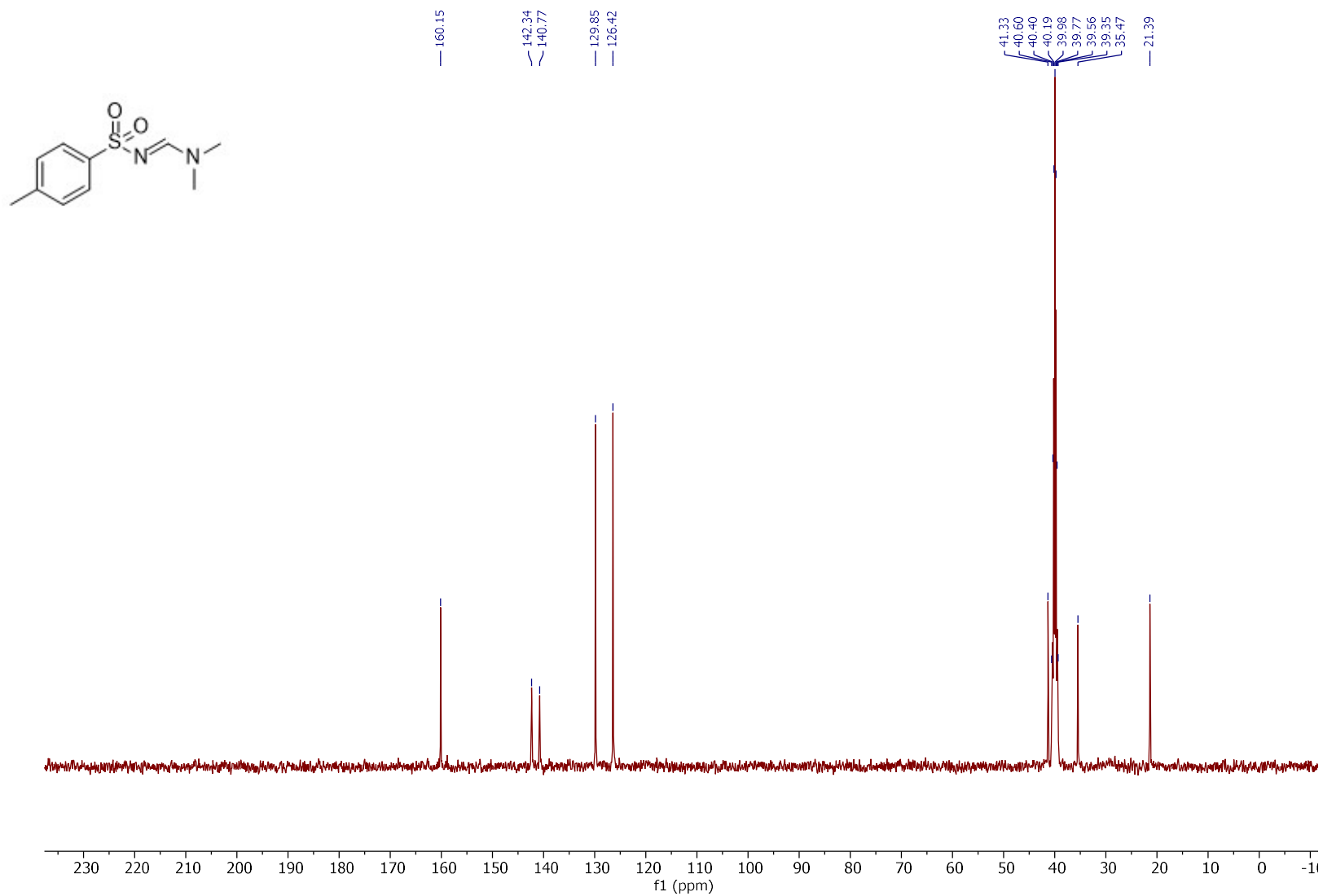


Figure S44: ^{13}C NMR Spectra of 5a

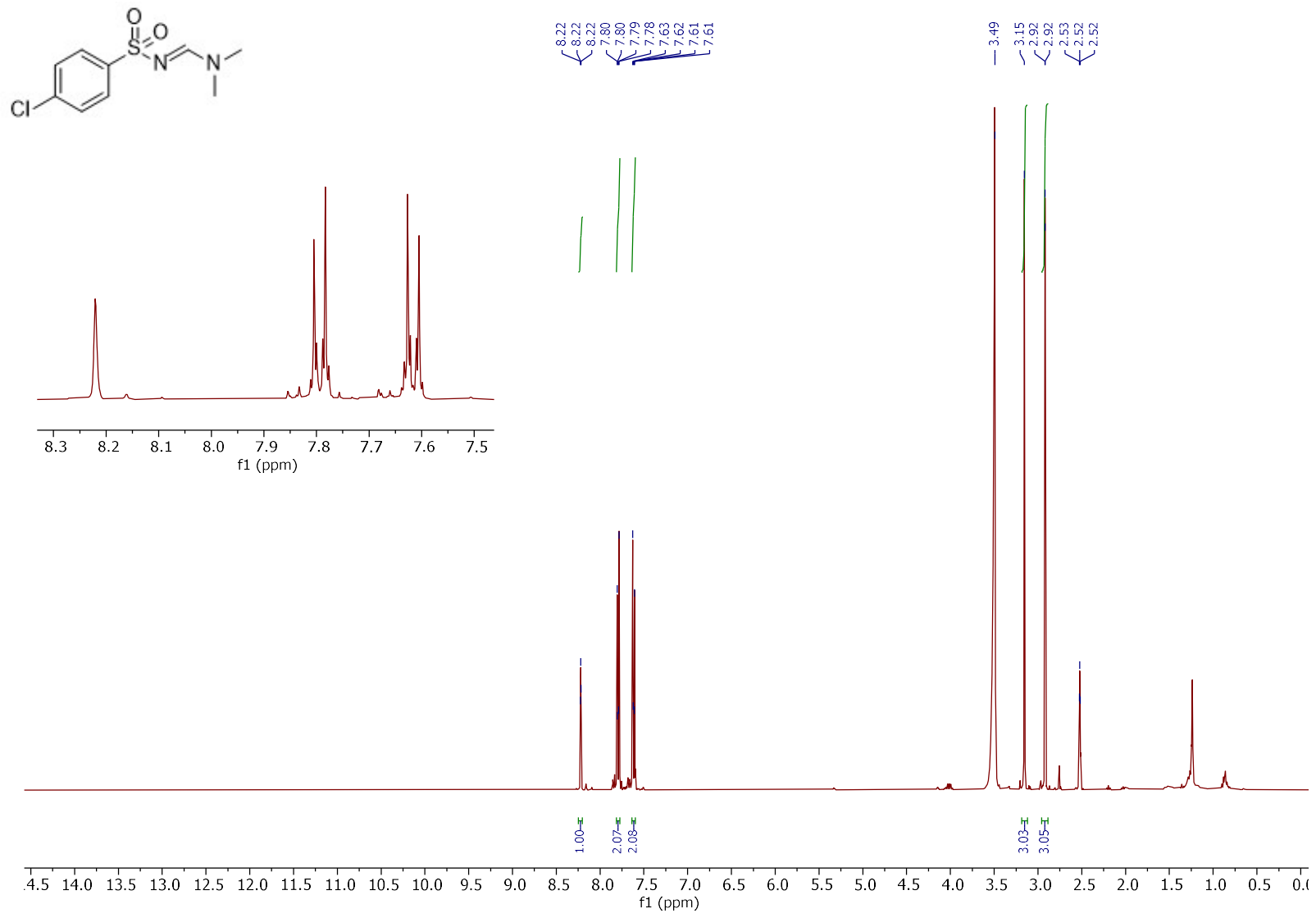


Figure S45: ^1H NMR Spectra of 5b

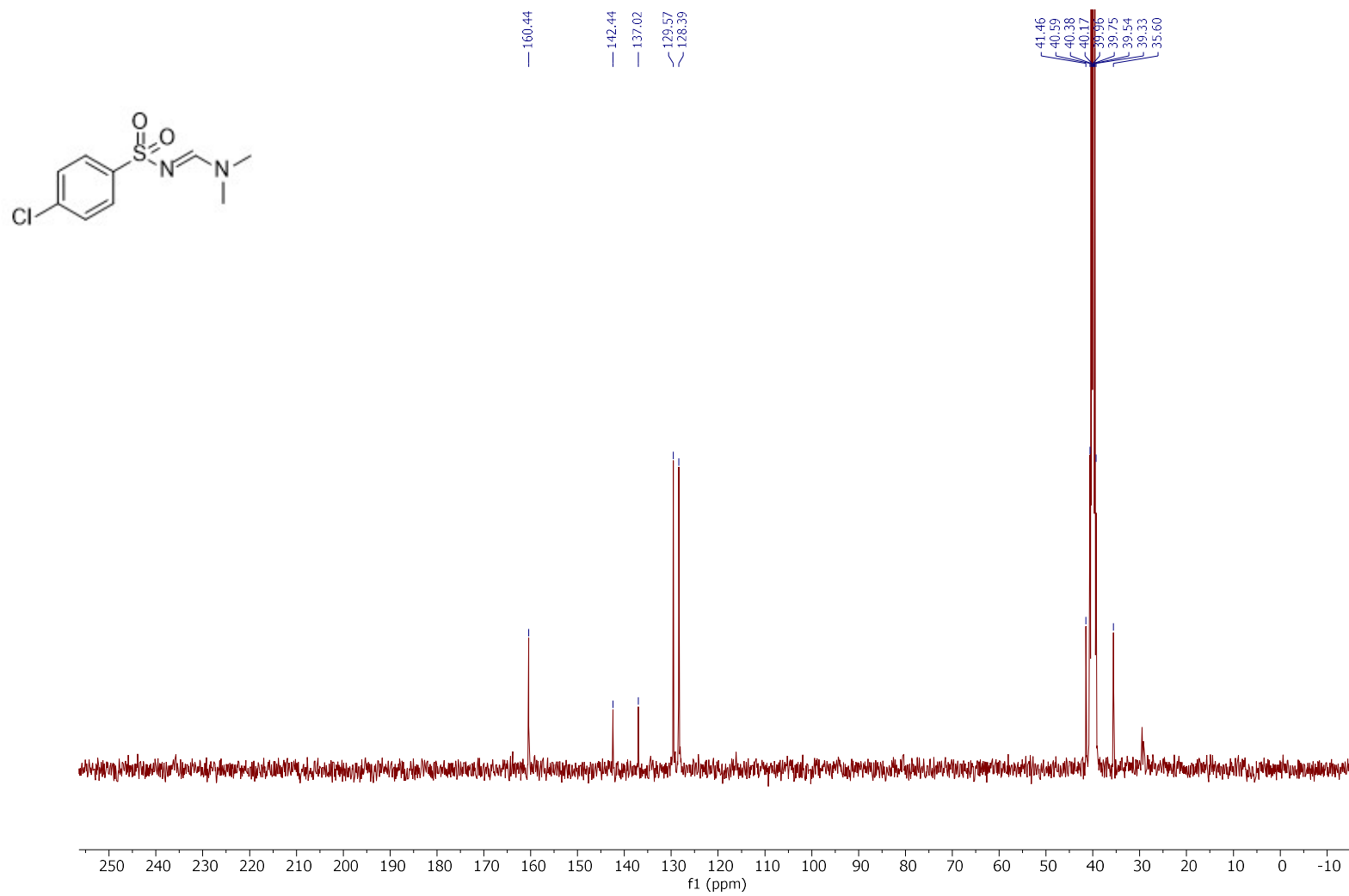


Figure S46: ^{13}C NMR Spectra of 5b

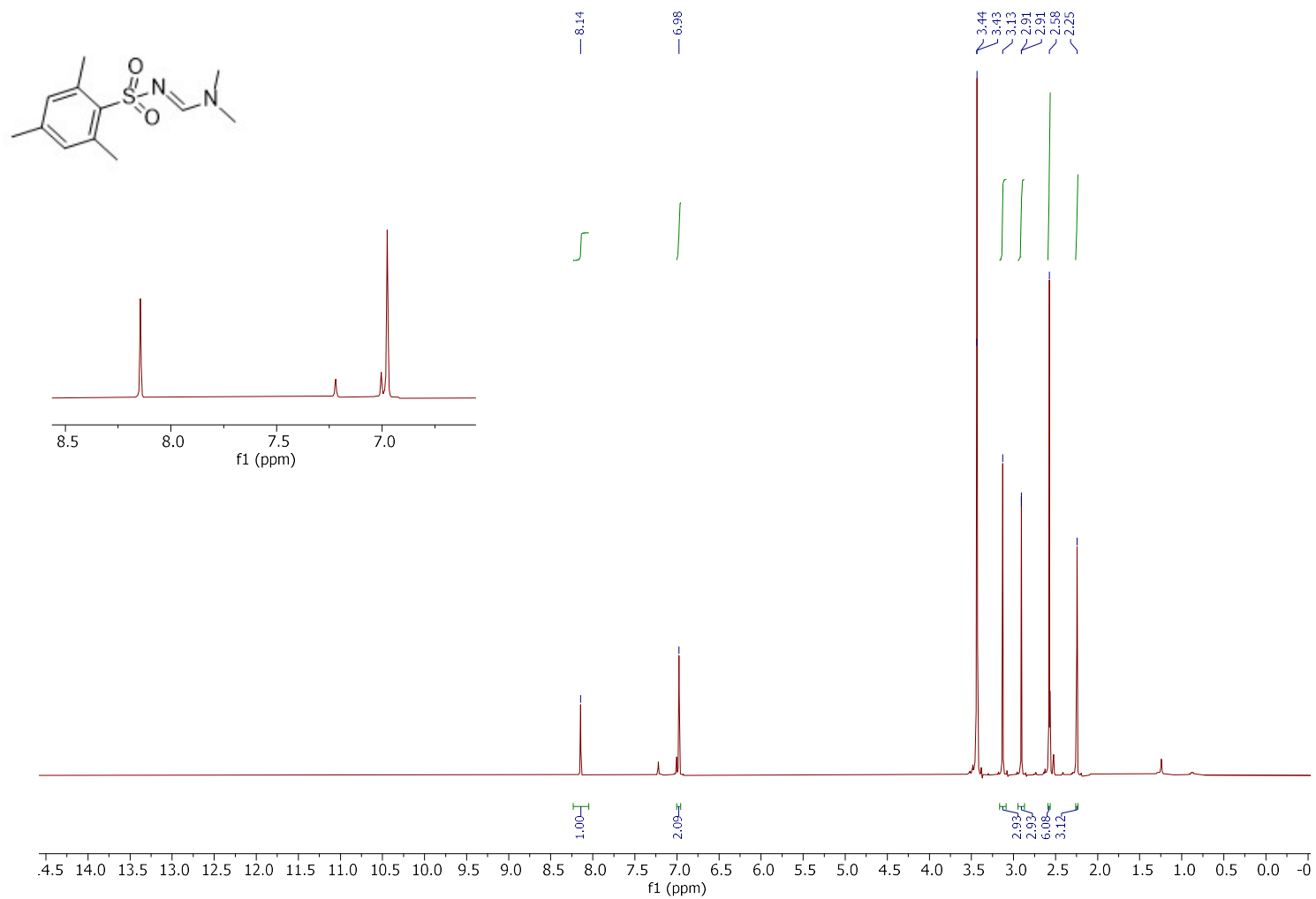


Figure S47: ¹H NMR Spectra of 5c

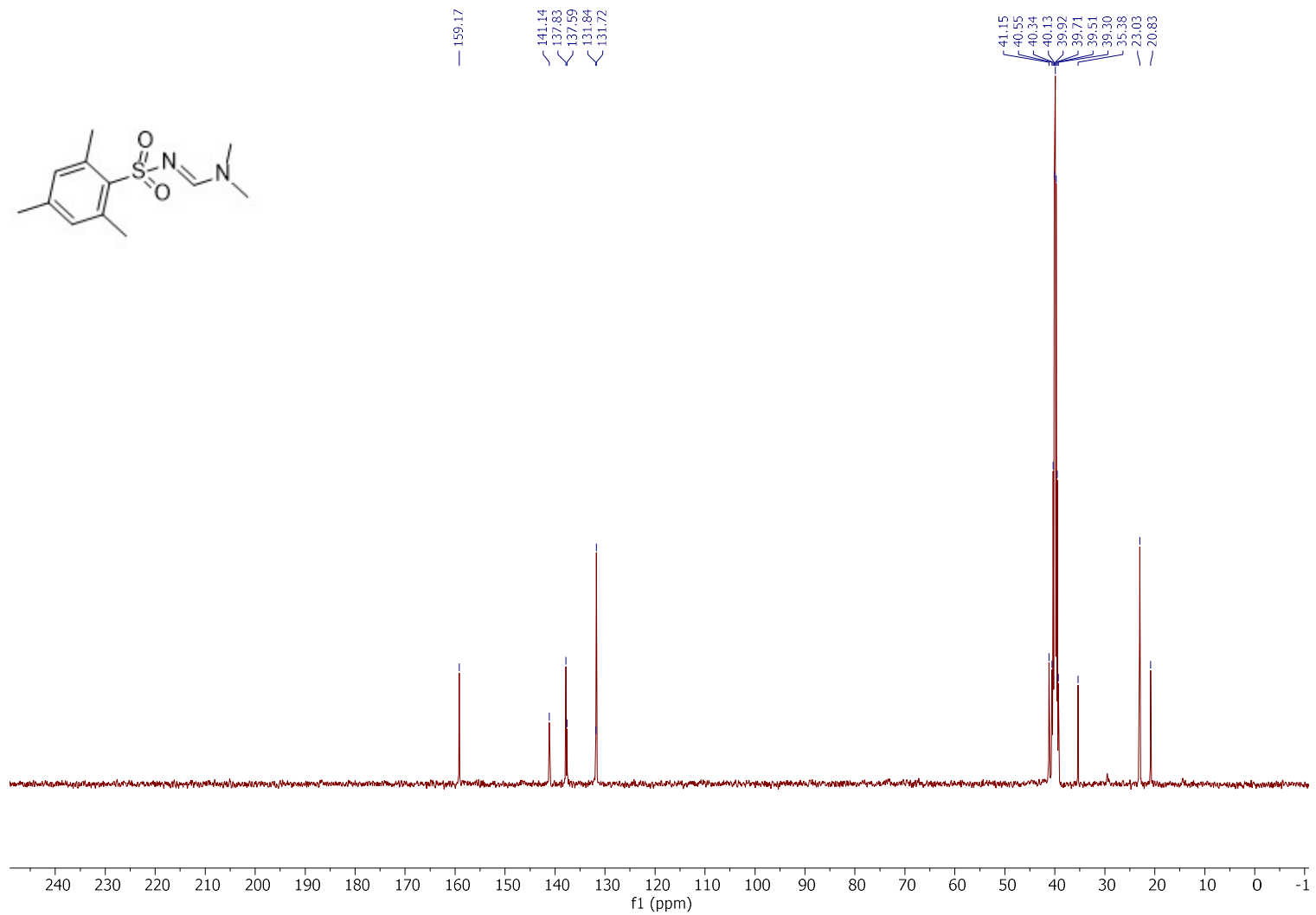


Figure S48: ^{13}C NMR Spectra of 5c

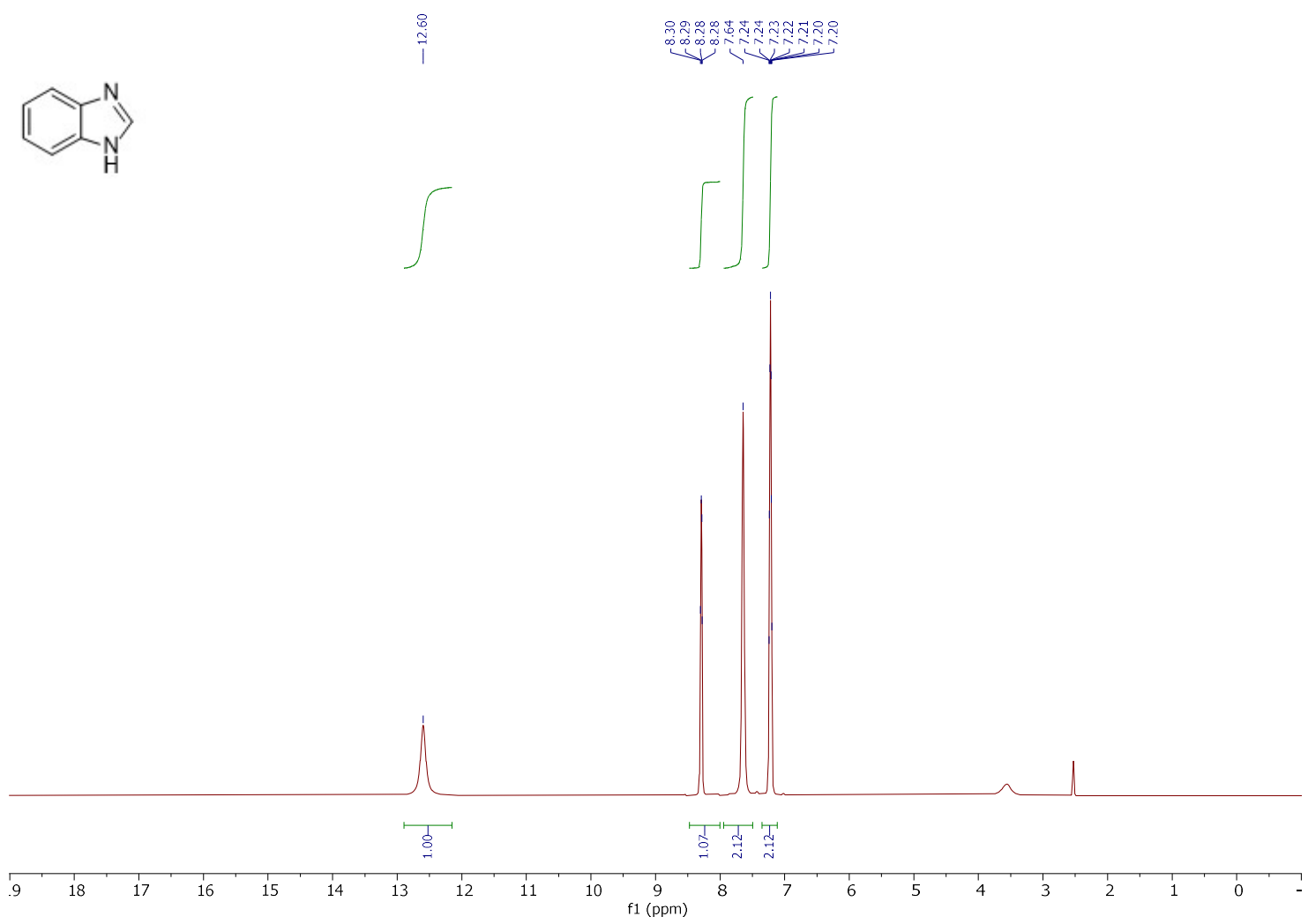


Figure S49: ¹H NMR Spectra of 7a

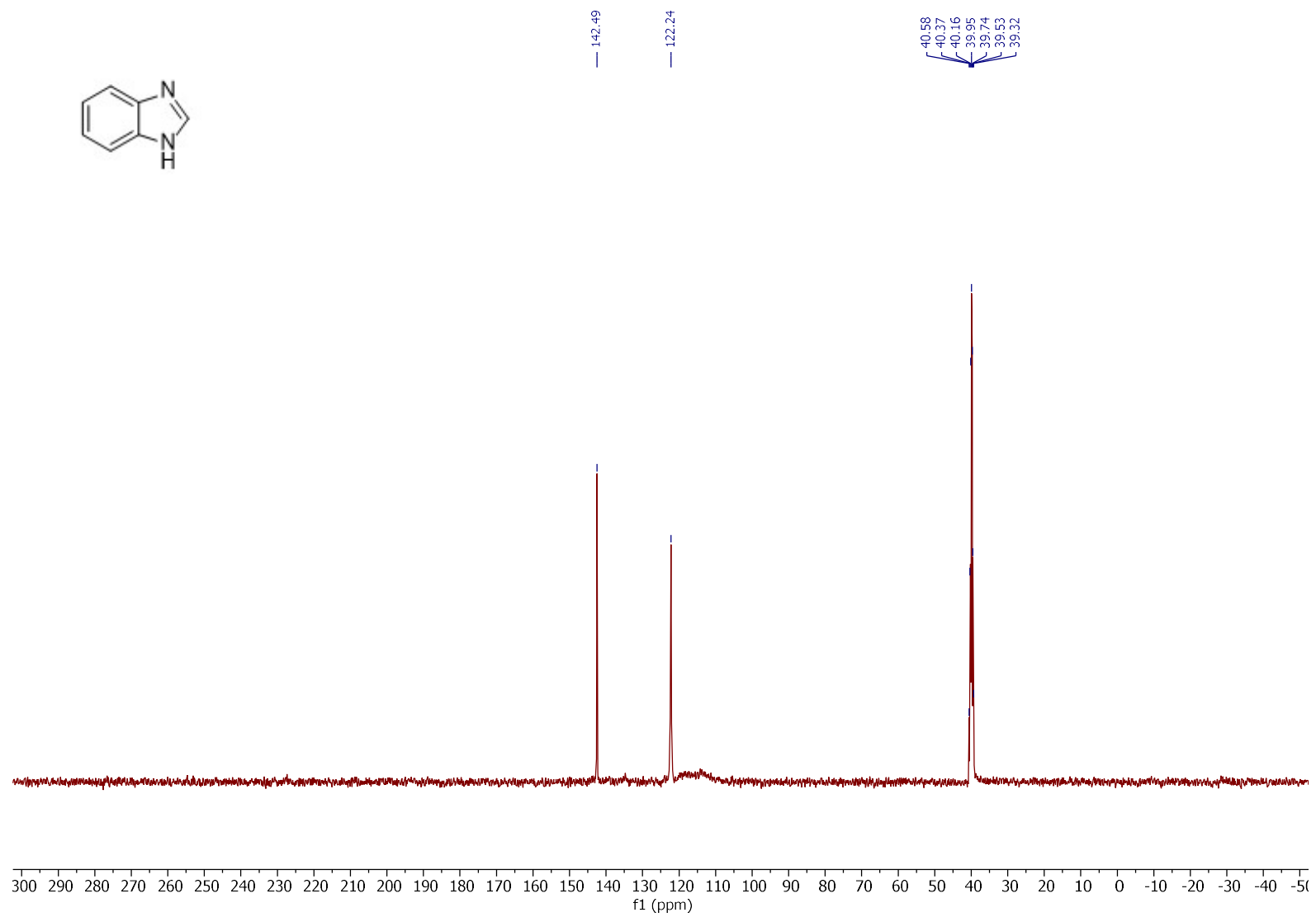


Figure S50: ¹³C NMR Spectra of 7a

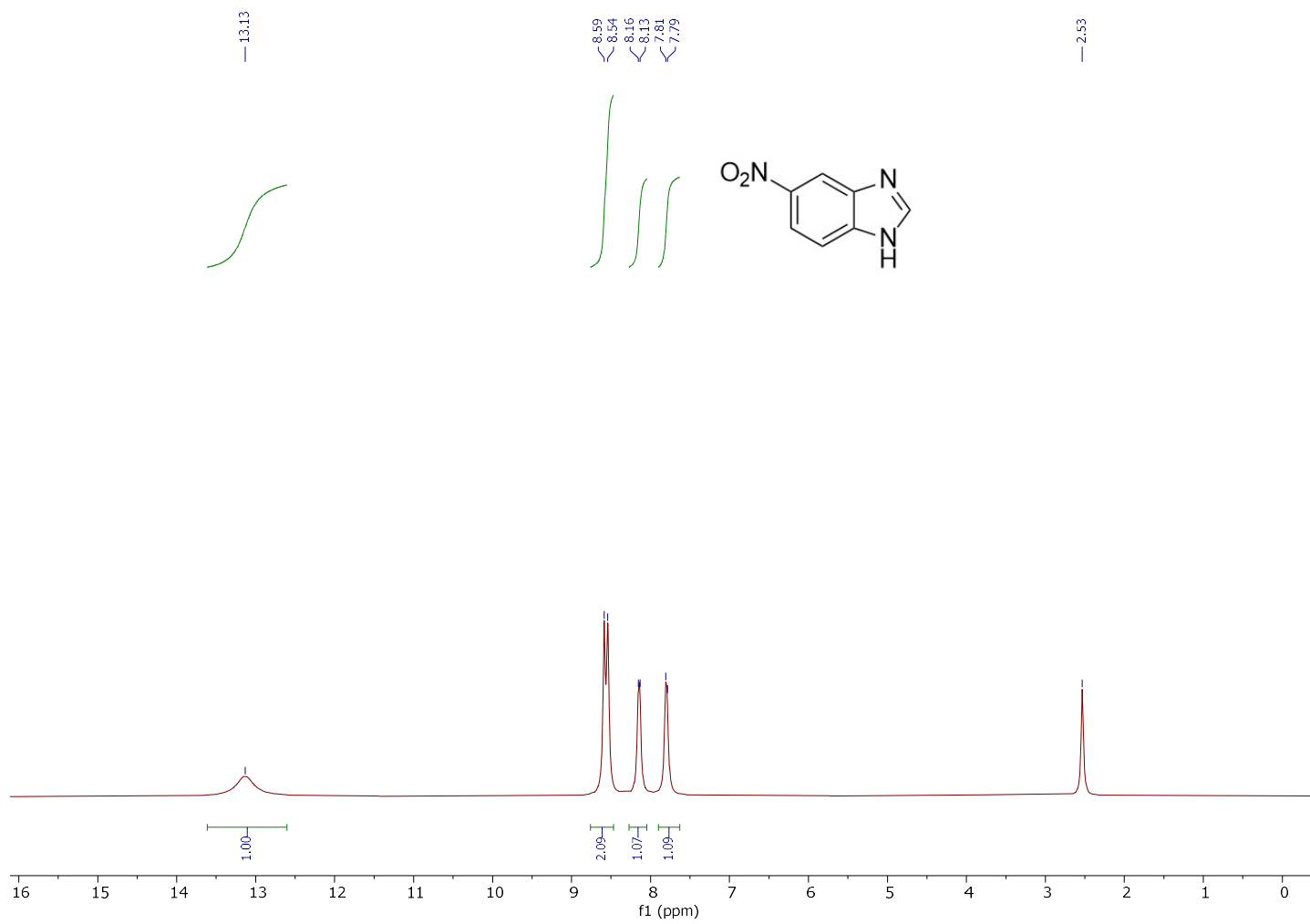


Figure S51: ¹H NMR Spectra of 7b

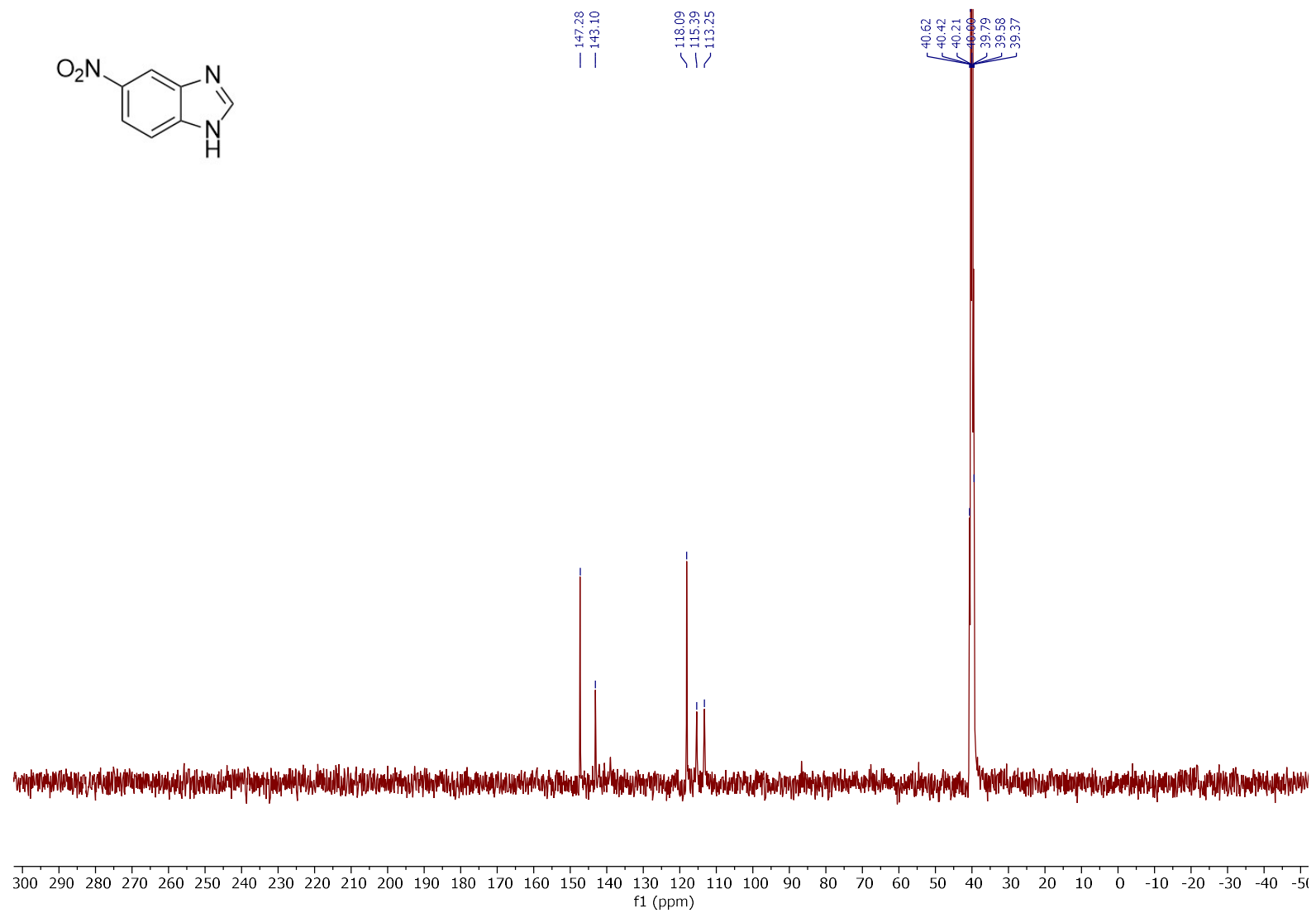


Figure S52: ¹³C NMR Spectra of 7b

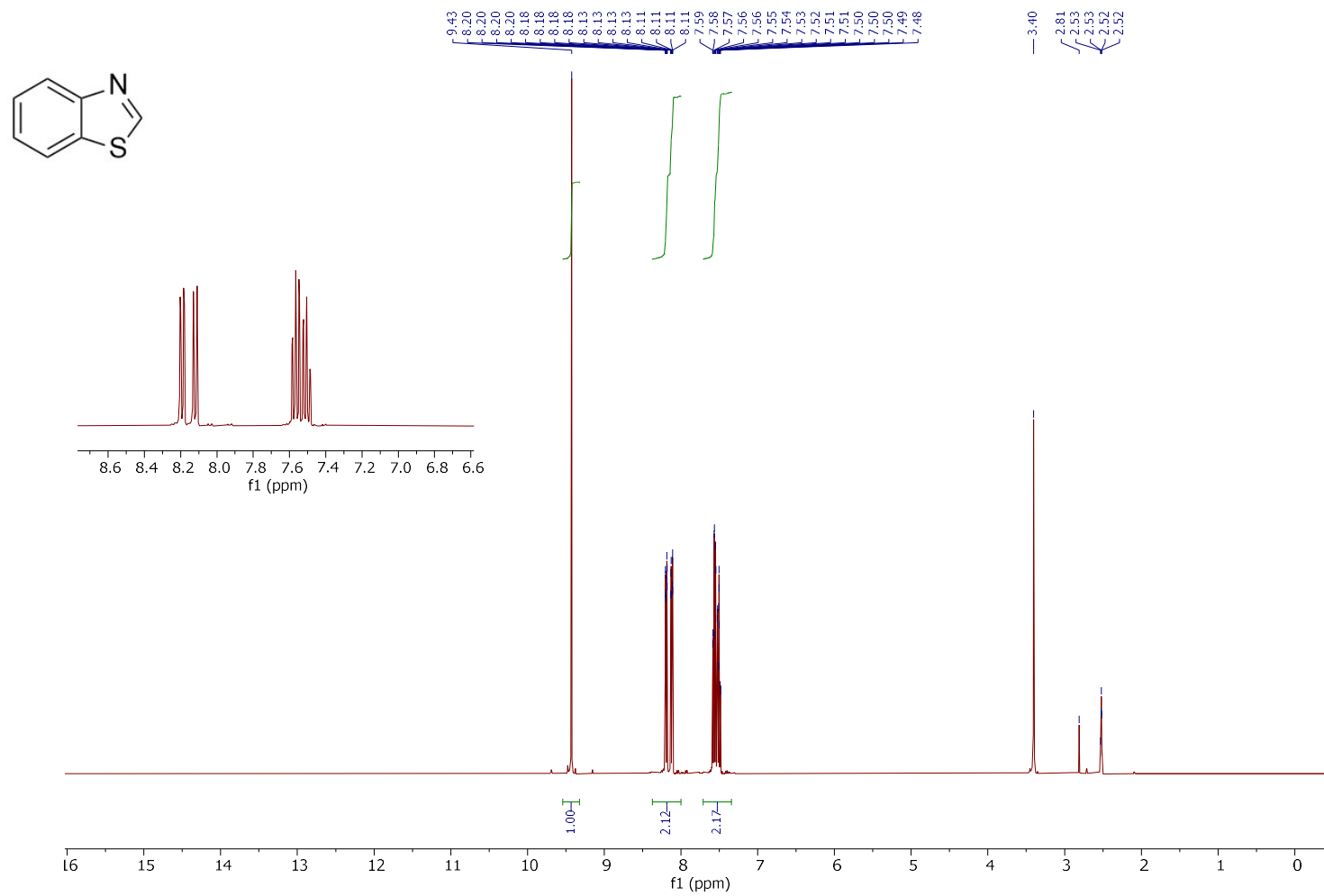


Figure S53: ¹H NMR Spectra of 8

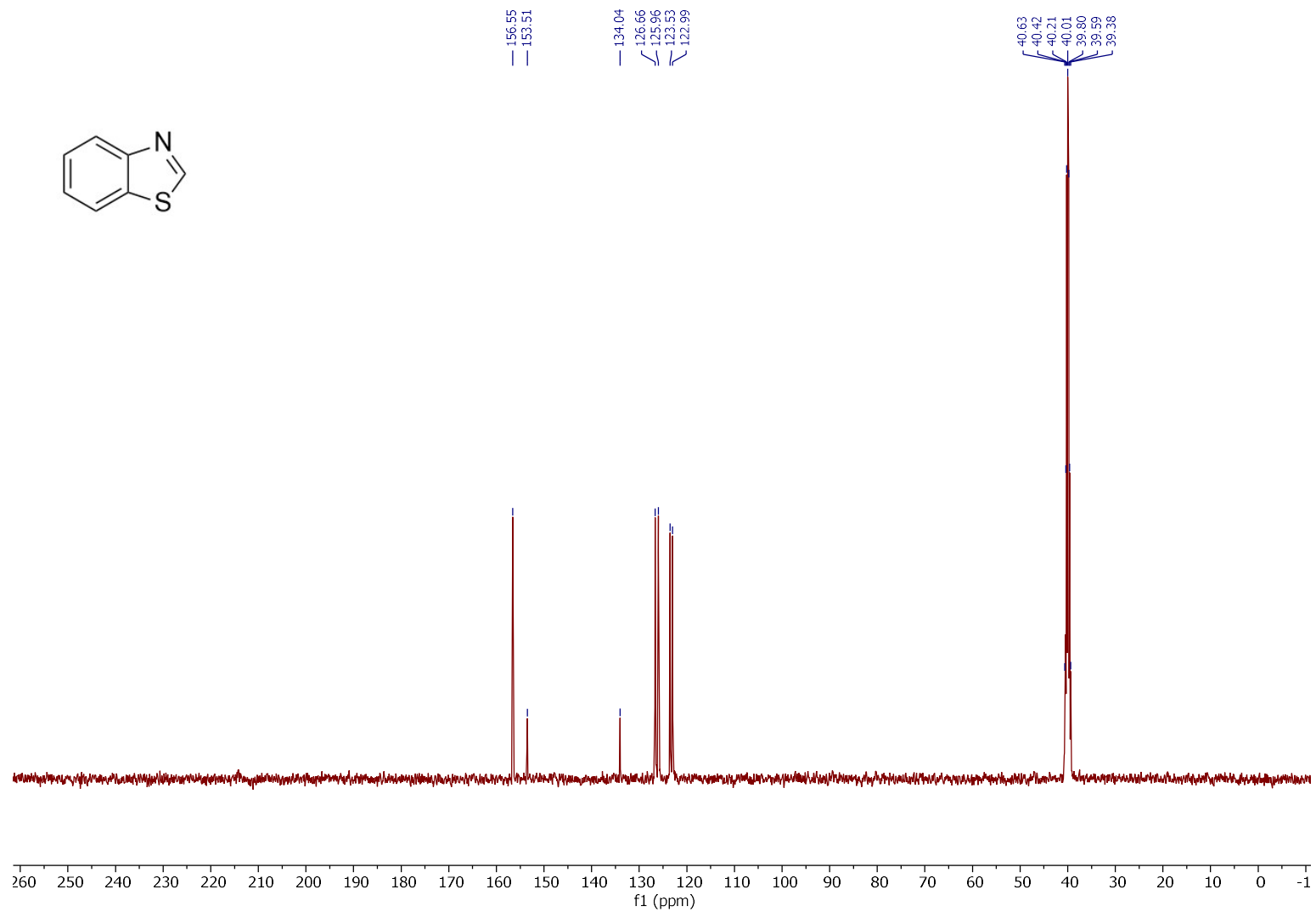


Figure S54: ^{13}C NMR Spectra of 8

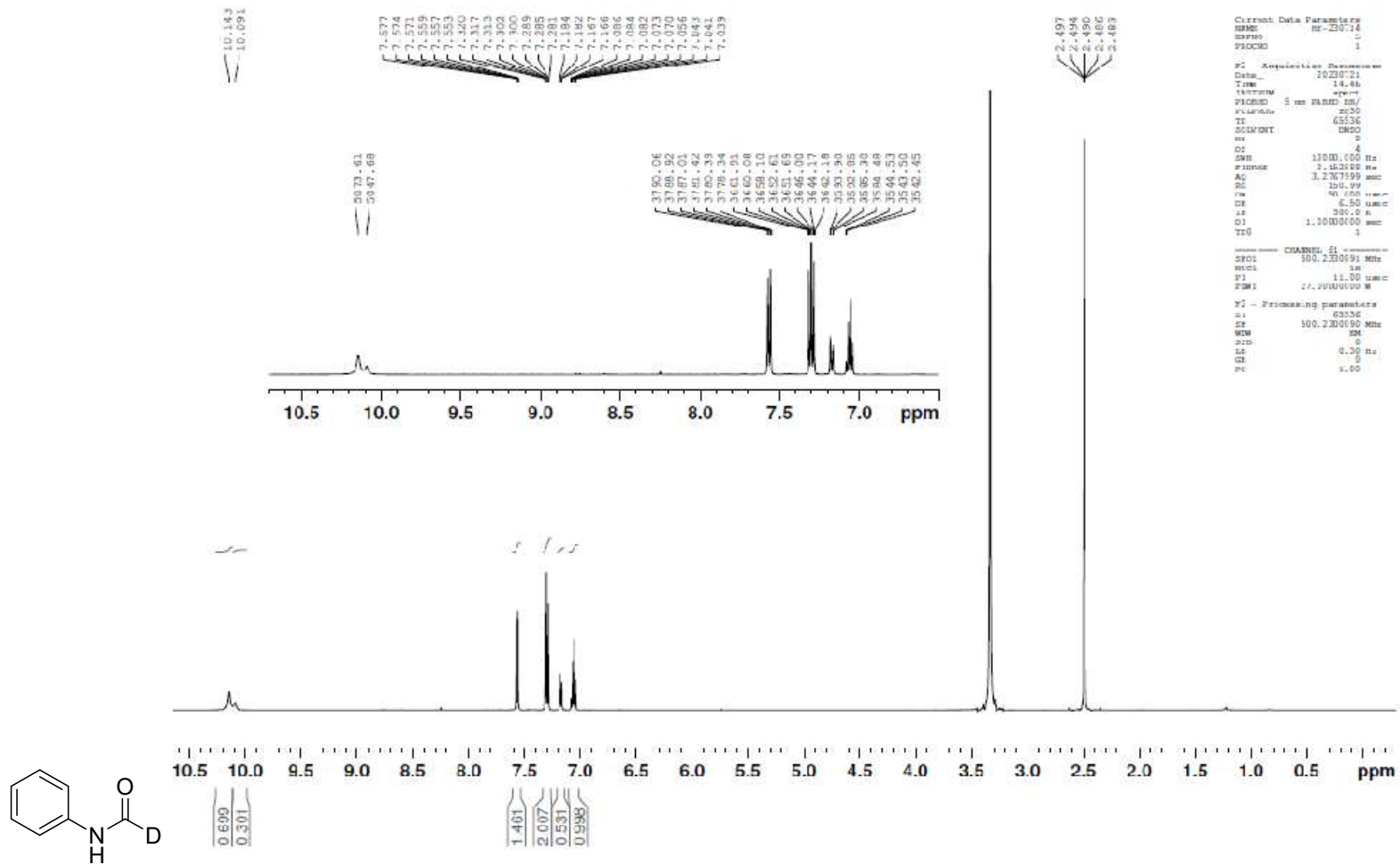


Figure S56: ¹H NMR Spectra of 2a-d1

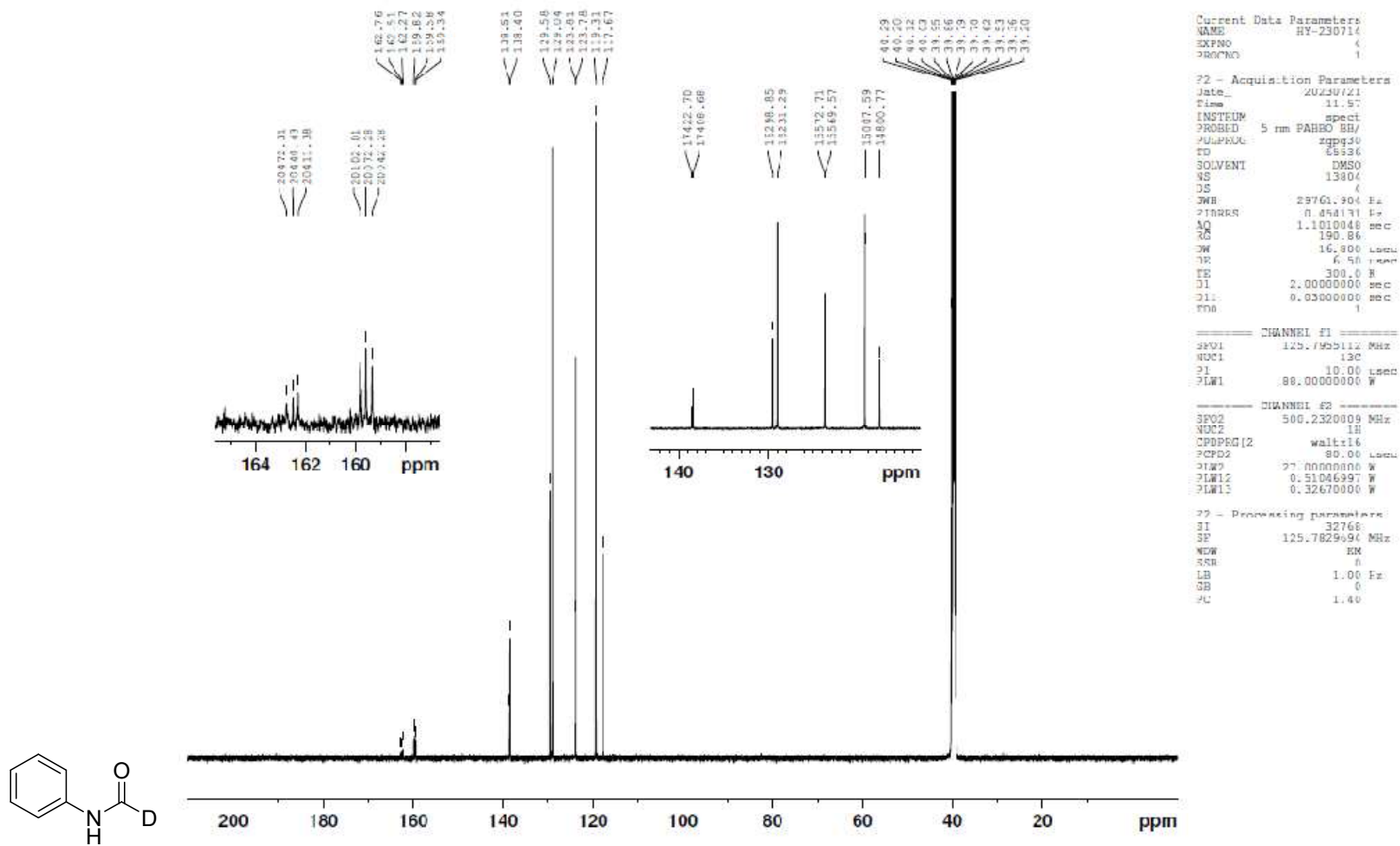


Figure S56: ¹³C NMR Spectra of 2a-d1