

Supplementary Material

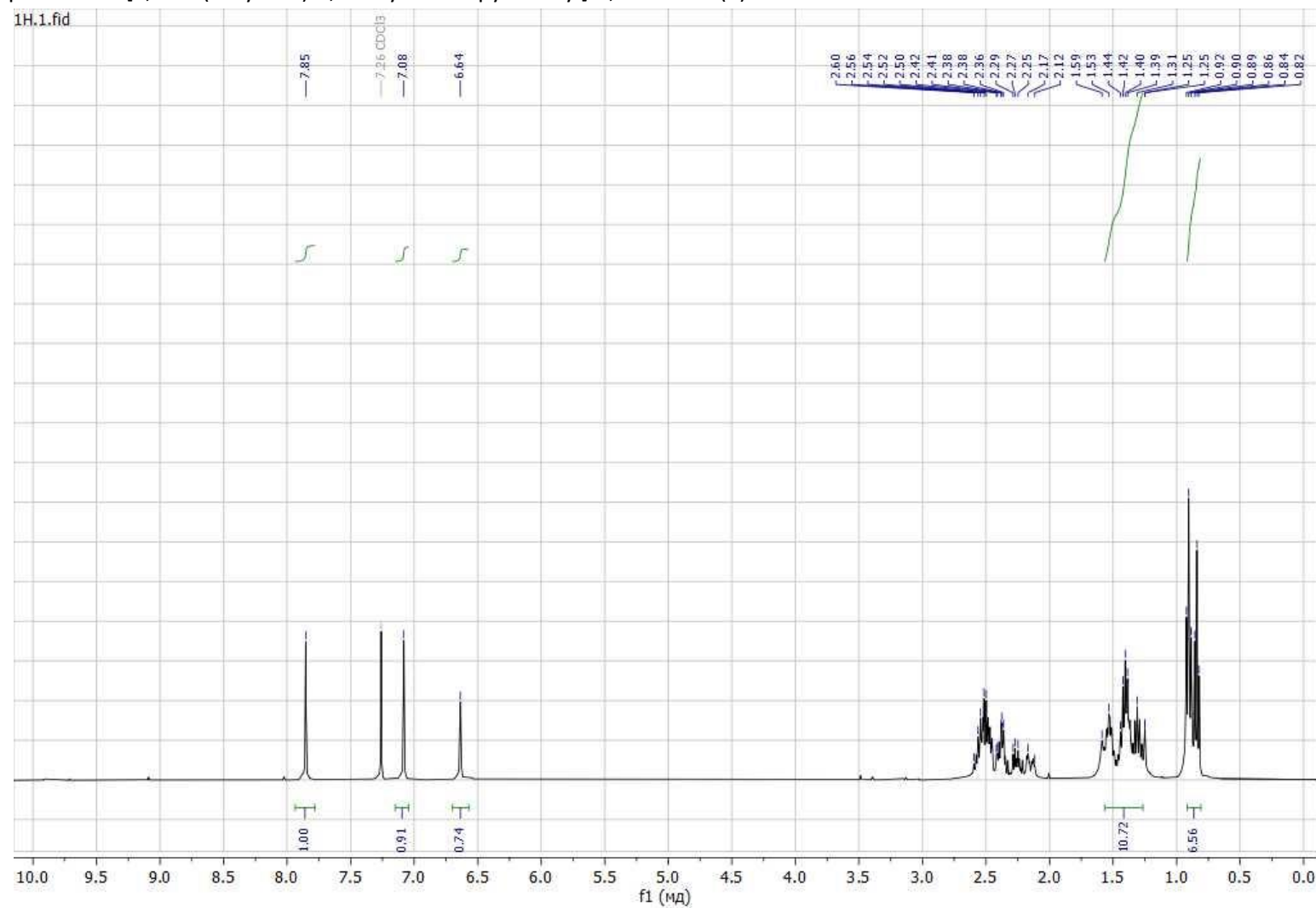
2,5-Bis-(butylsulfanyl)-2,3-dihydro-4*H*-pyran-2-carbaldehyde in the synthesis of five-membered heterocycles

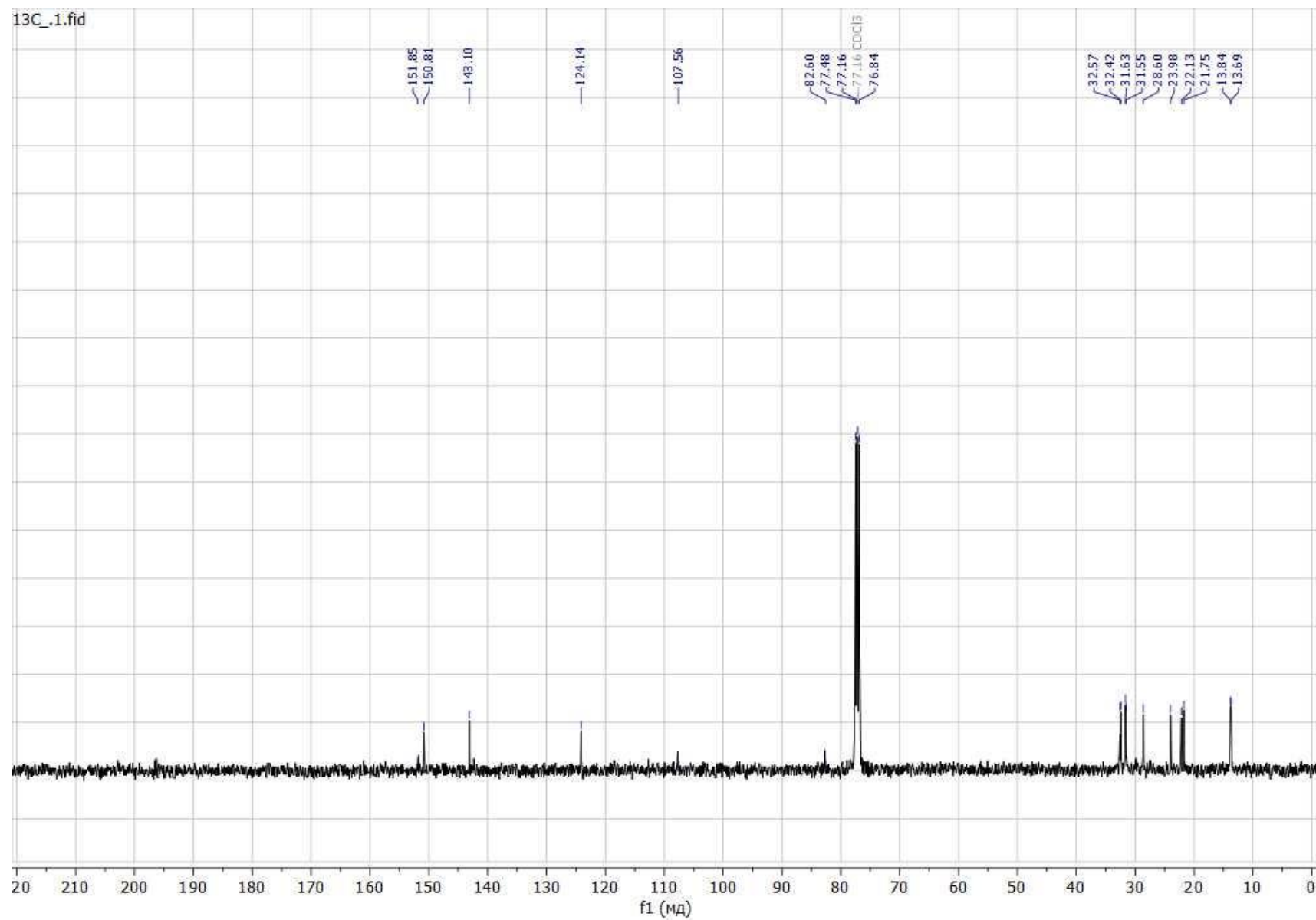
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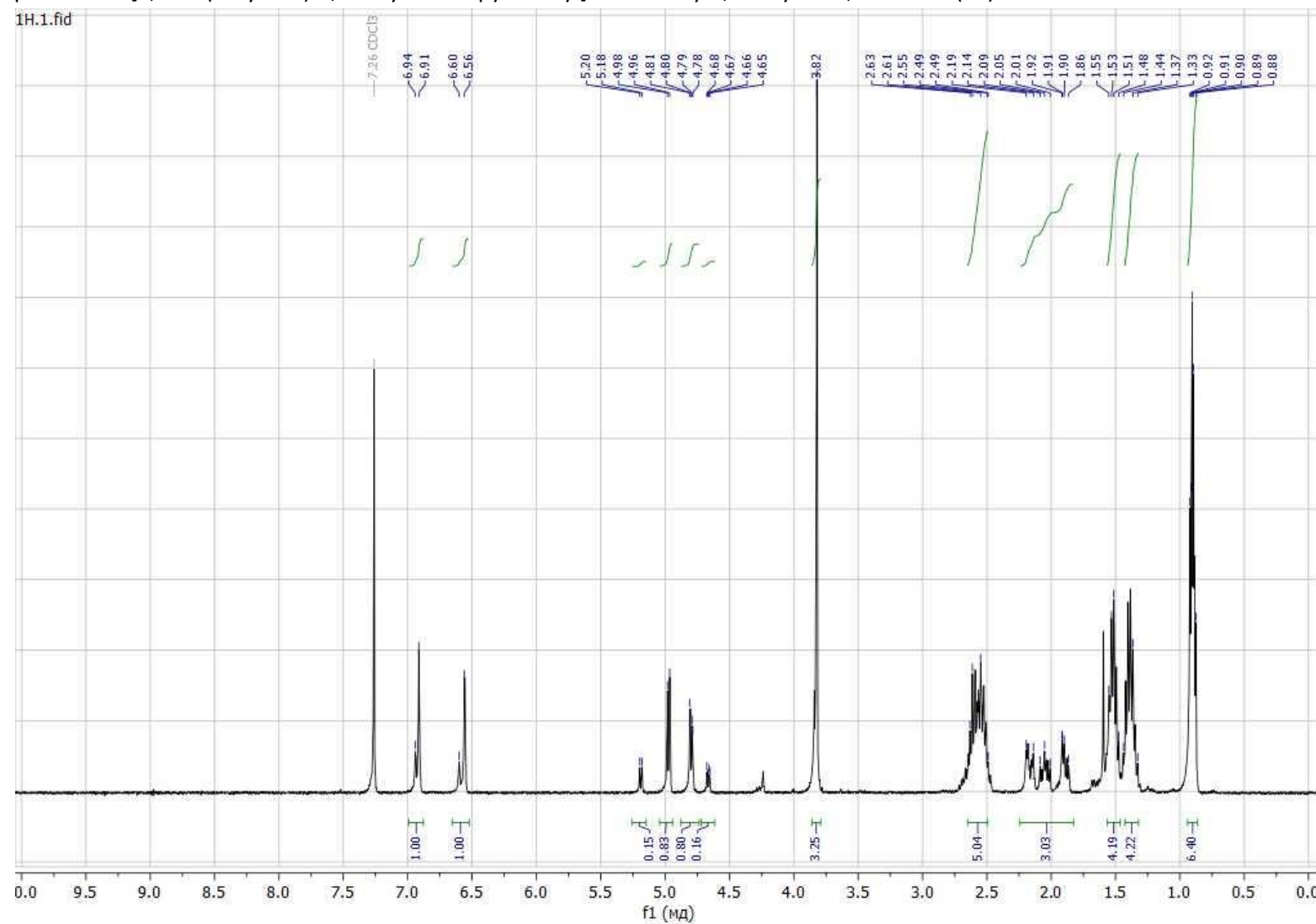
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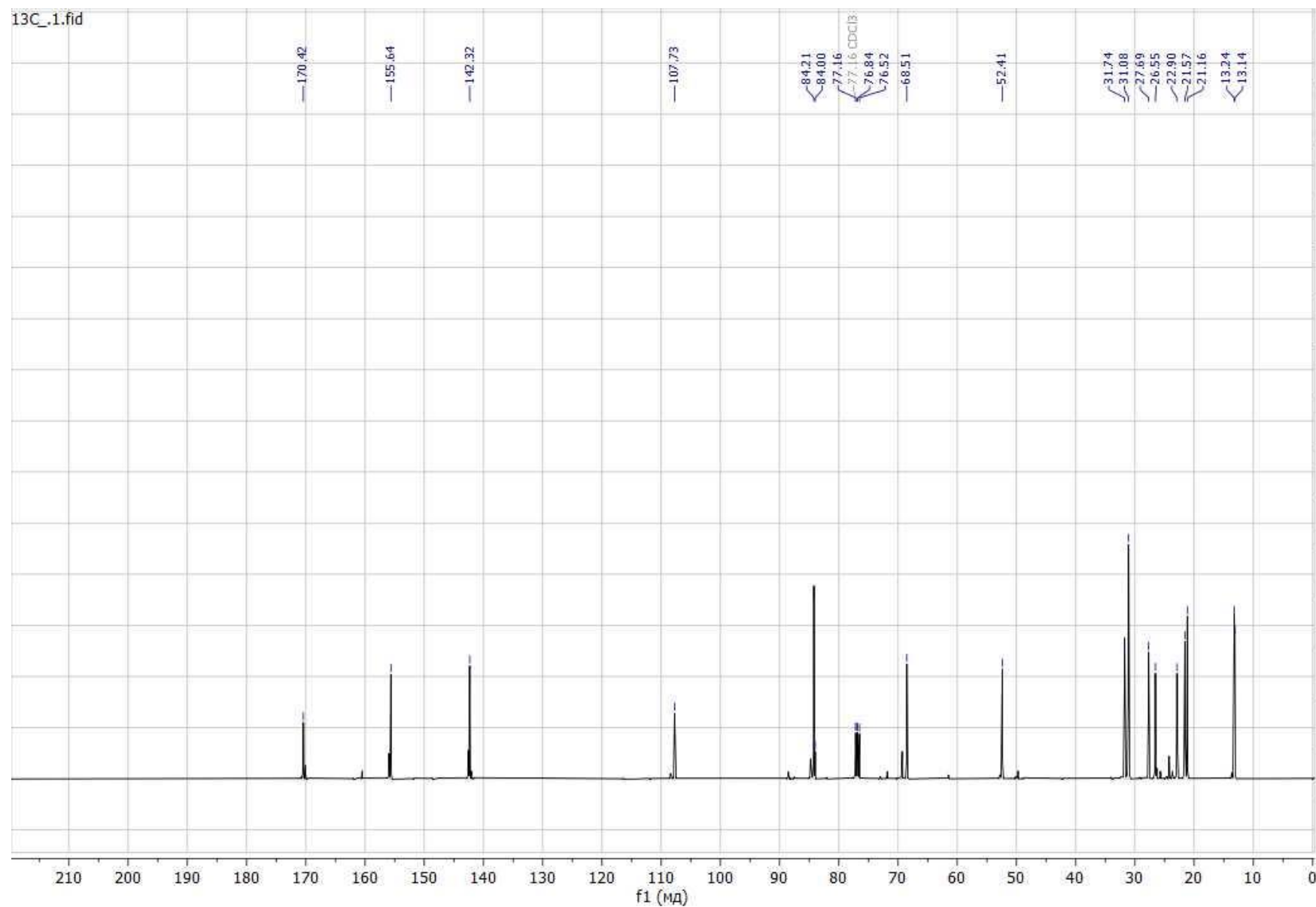
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S1. ^1H and ^{13}C spectra of 5-[2,5-Bis(butylthio)-3,4-dihydro-2H-pyran-2-yl]-1,3-oxazole (**2**) ^1H NMR (CDCl_3) spectrum of **2**

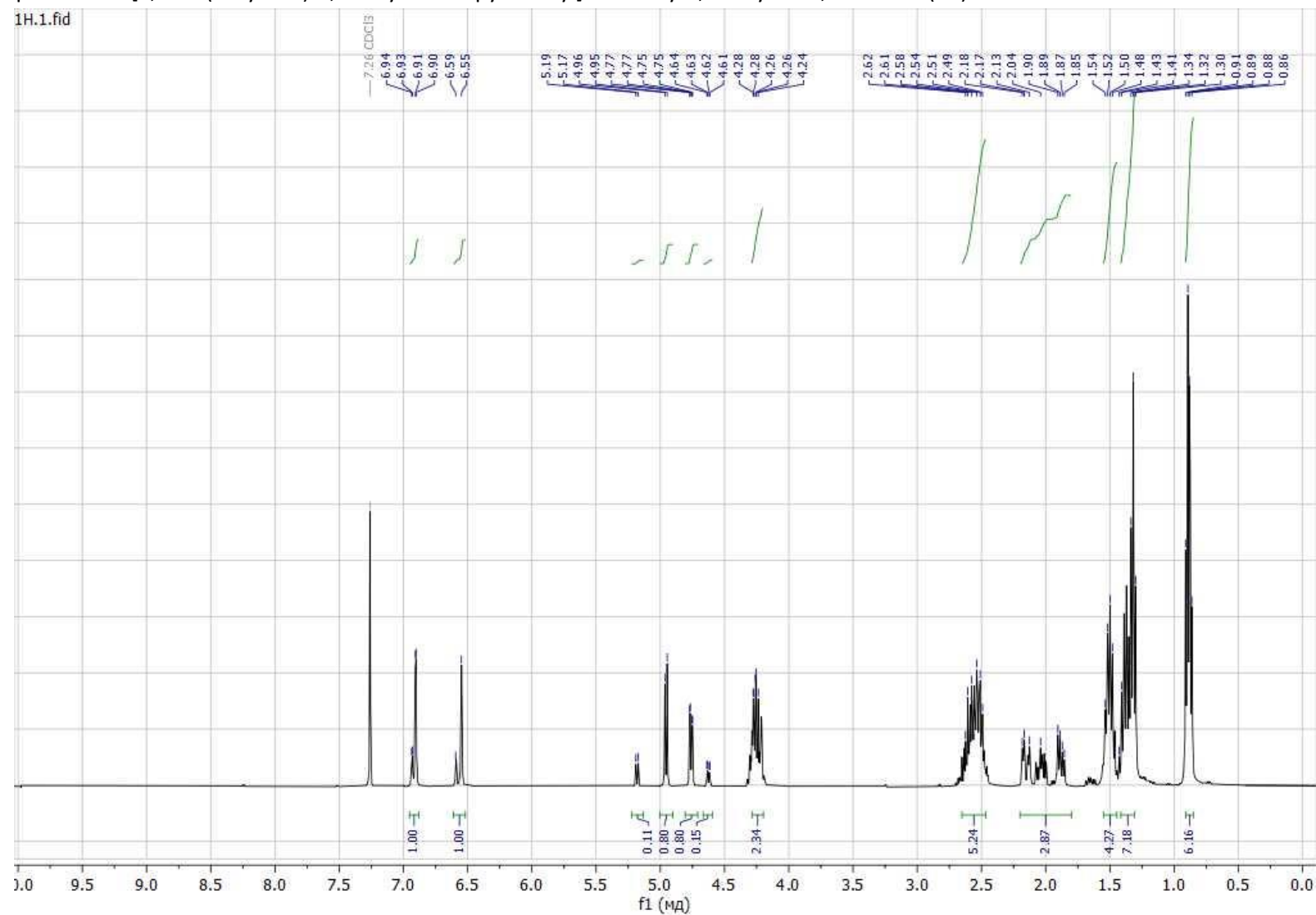


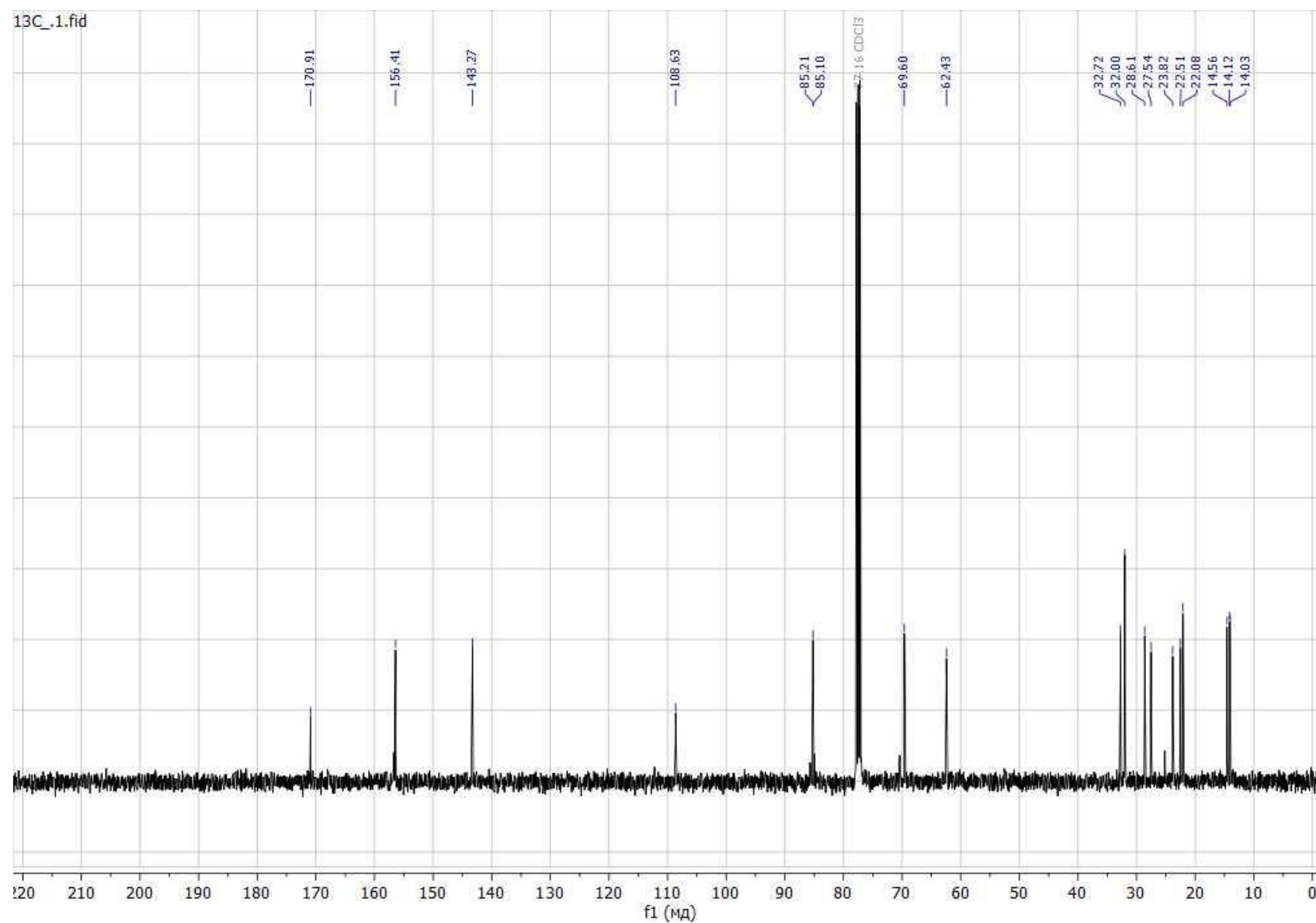
¹³C NMR (CDCl₃) spectrum of **2**

S2. ^1H and ^{13}C spectra of 5-[2,5-bis(butylthio)-3,4-dihydro-2H-pyran-2-yl]-4-methoxy-4,5-dihydro-1,3-oxazole (**3a**) ^1H NMR (CDCl_3) spectrum of **3a**

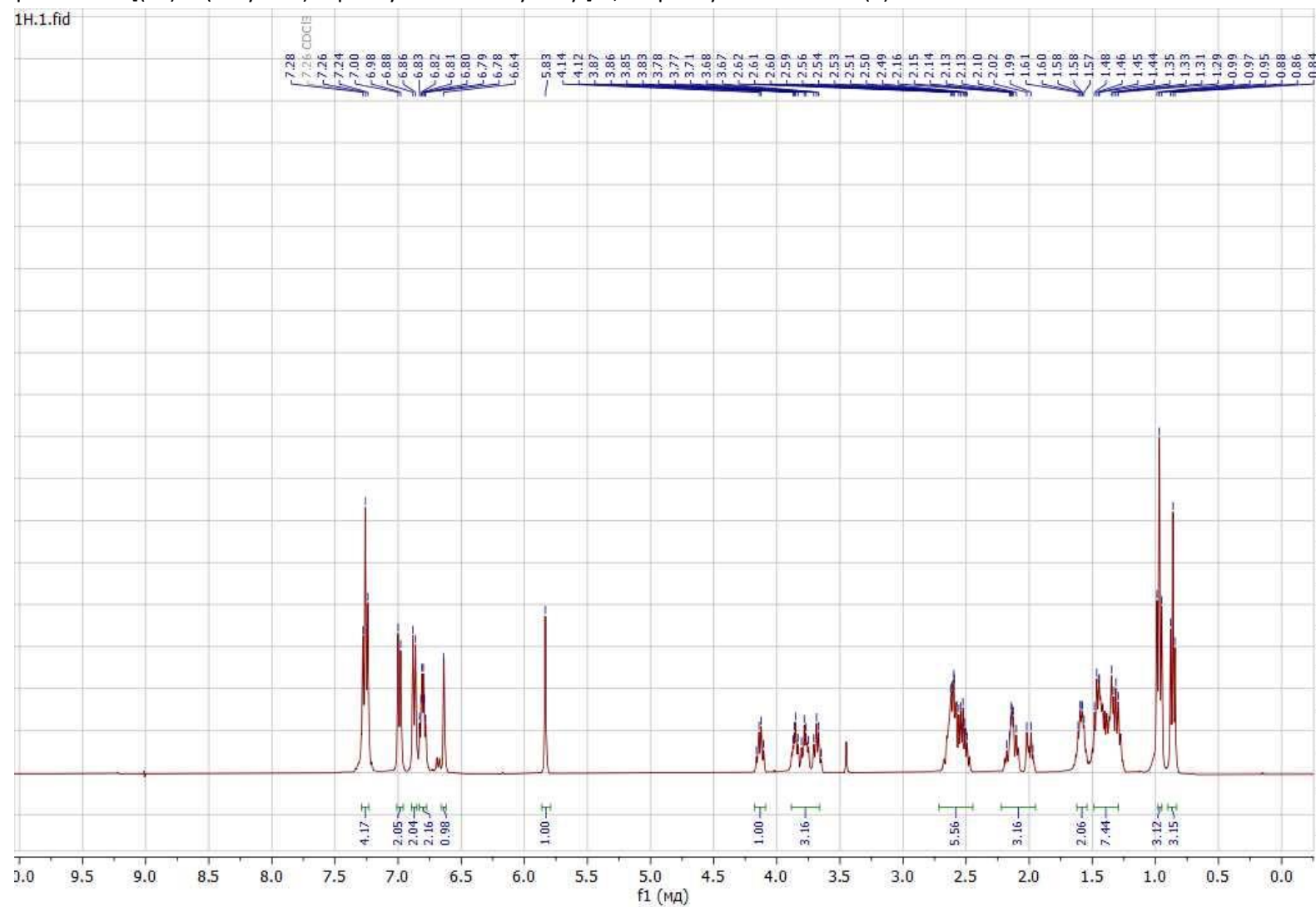


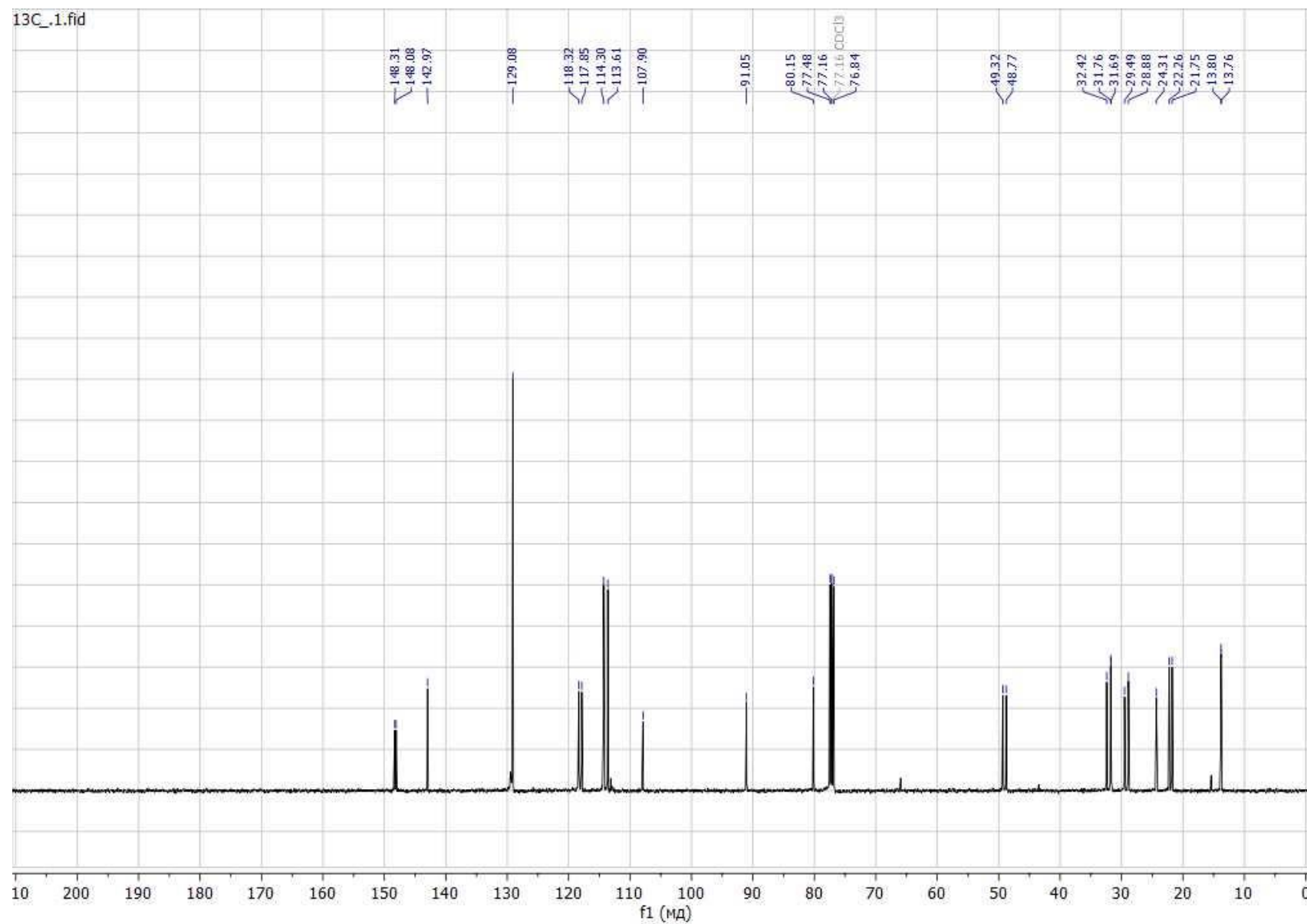
¹³C NMR (CDCl₃) spectrum of **3a**

S3. ^1H and ^{13}C spectra of 5-[2,5-Bis(butylthio)-3,4-dihydro-2H-pyran-2-yl]-4-ethoxy-4,5-dihydro-1,3-oxazole (**3b**) ^1H NMR (CDCl_3) spectrum of **3b**



¹³C NMR (CDCl₃) spectrum of **3b**

S4. ^1H and ^{13}C spectra of 2-[(1Z)-1-(Butylthio)-4-phenylbut-1-en-3-yn-1-yl]-1,3-diphenylimidazolidine (**4**)

 ^{13}C NMR (CDCl_3) spectrum of **4**