

Supplementary Material

A novel one-pot and one-step microwave-assisted cyclization-methylation reaction of amino alcohols and acetylated derivatives with dimethyl carbonate and TBAC

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S2-S17: ¹H NMR and ¹³C NMR spectra

S18, S19: GC-MS and IR spectra

¹H-NMR and ¹³C-NMR spectra were recorded at 200 MHz and 50 MHz respectively, on a spectrometer in CDCl₃ with TMS as internal standard.

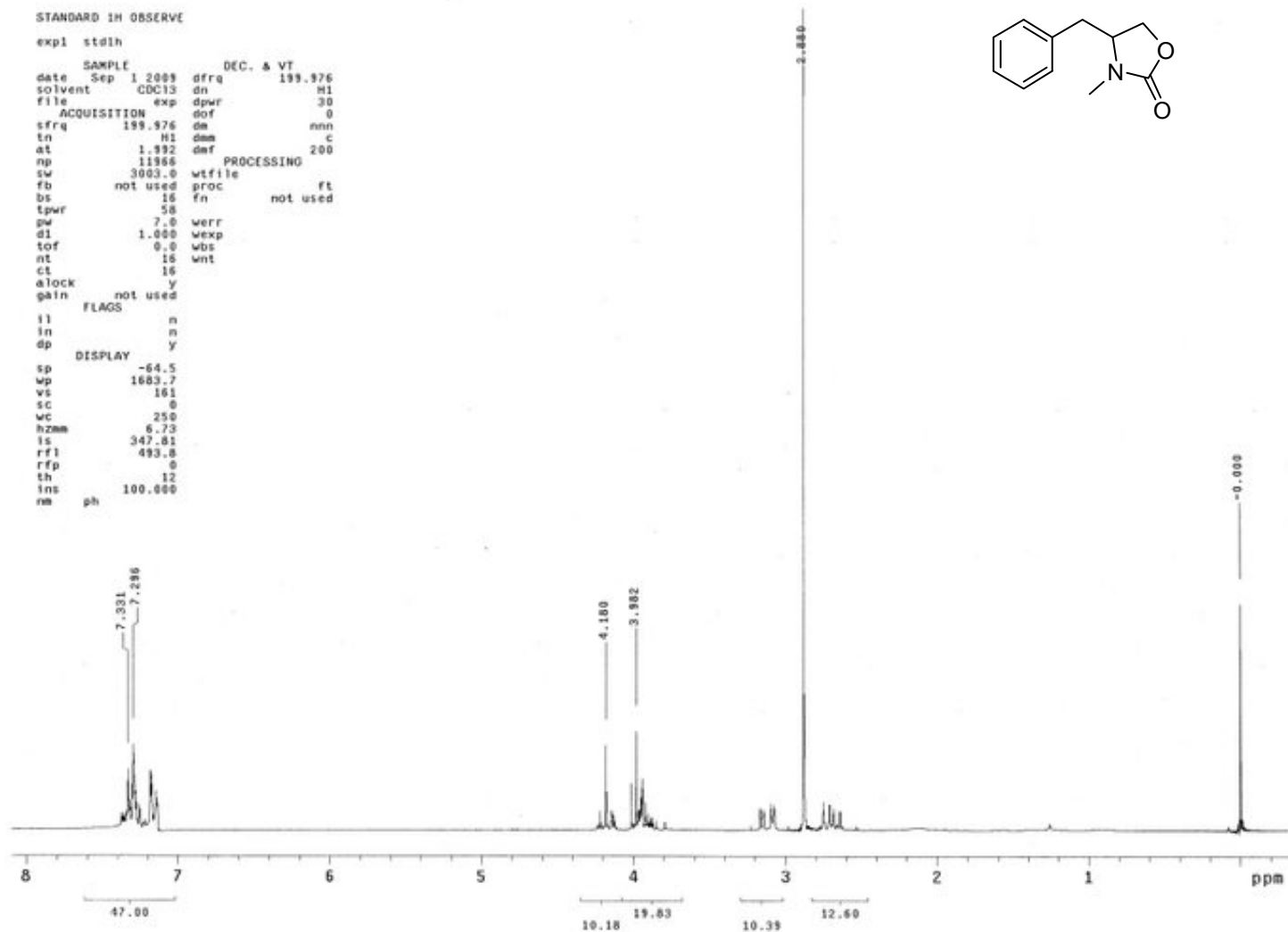


Figure 1: ^1H NMR spectrum of 4-benzyl-3-methyloxazolidin-2-one (**5**)

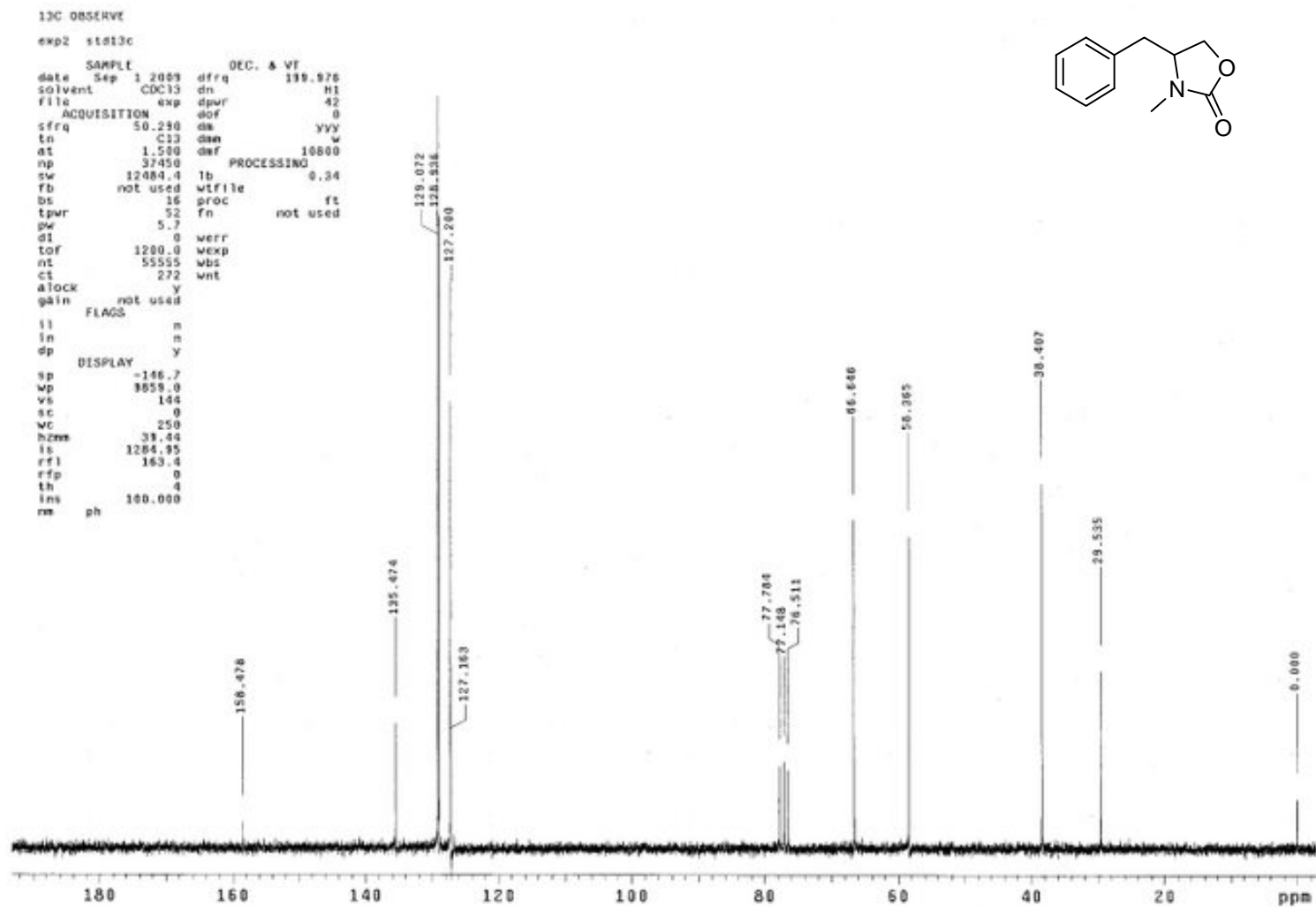


Figure 2: ^{13}C NMR spectrum of 4-benzyl-3-methyloxazolidin-2-one (**5**)

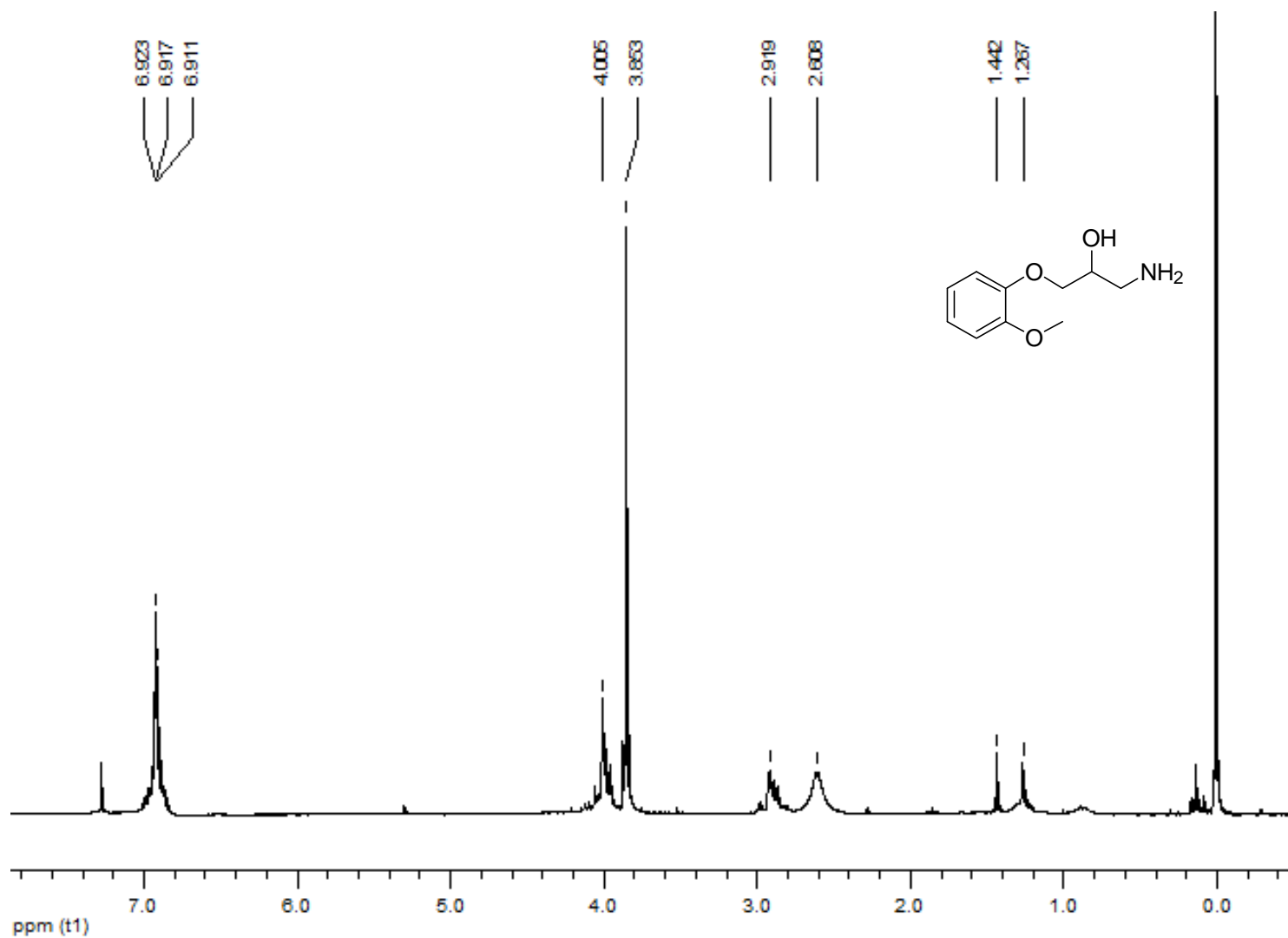


Figure 3: ^1H NMR spectrum of 1-amino-3-(2-methoxyphenoxy)propan-2-ol (**14**)

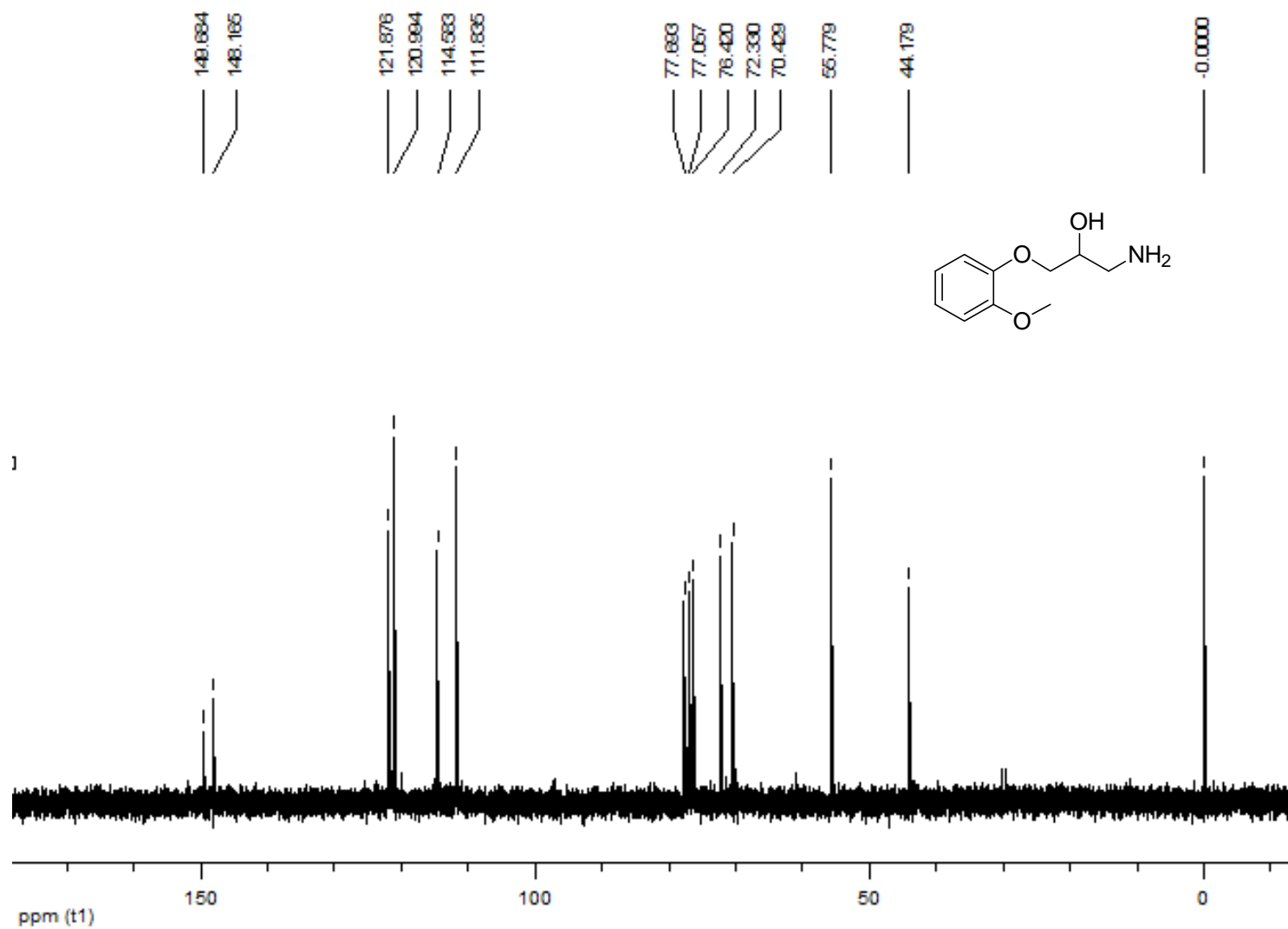


Figure 4: ¹³C NMR spectrum of 1-amino-3-(2-methoxyphenoxy)propan-2-ol (**14**)

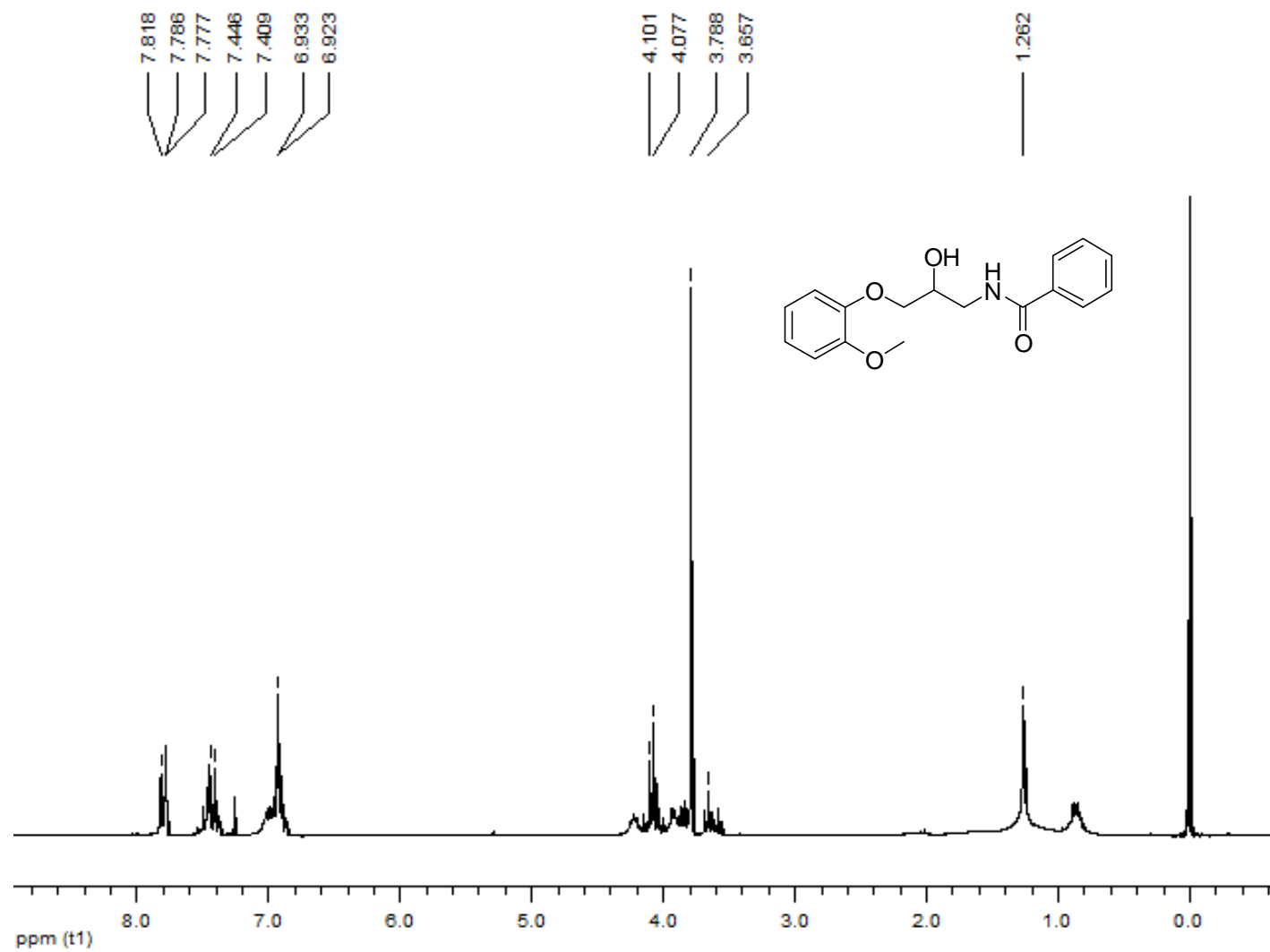


Figure 5: ^1H NMR spectrum of *N*-(2-hydroxy-3-(2-methoxyphenoxy)propyl)benzamide (**15**)

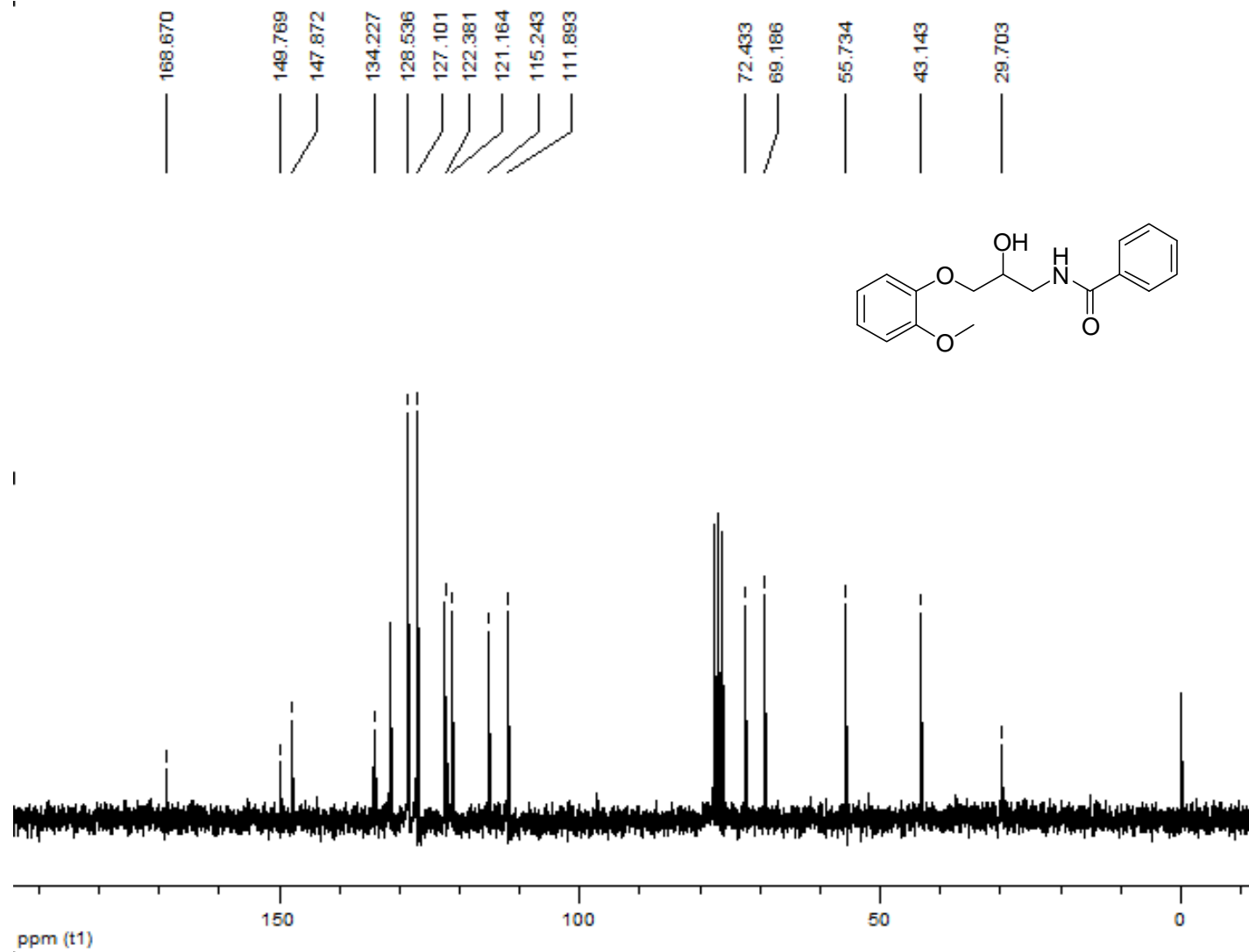


Figure 6: ¹³C NMR spectrum of *N*-(2-hydroxy-3-(2-methoxyphenoxy)propyl)benzamide (**15**)

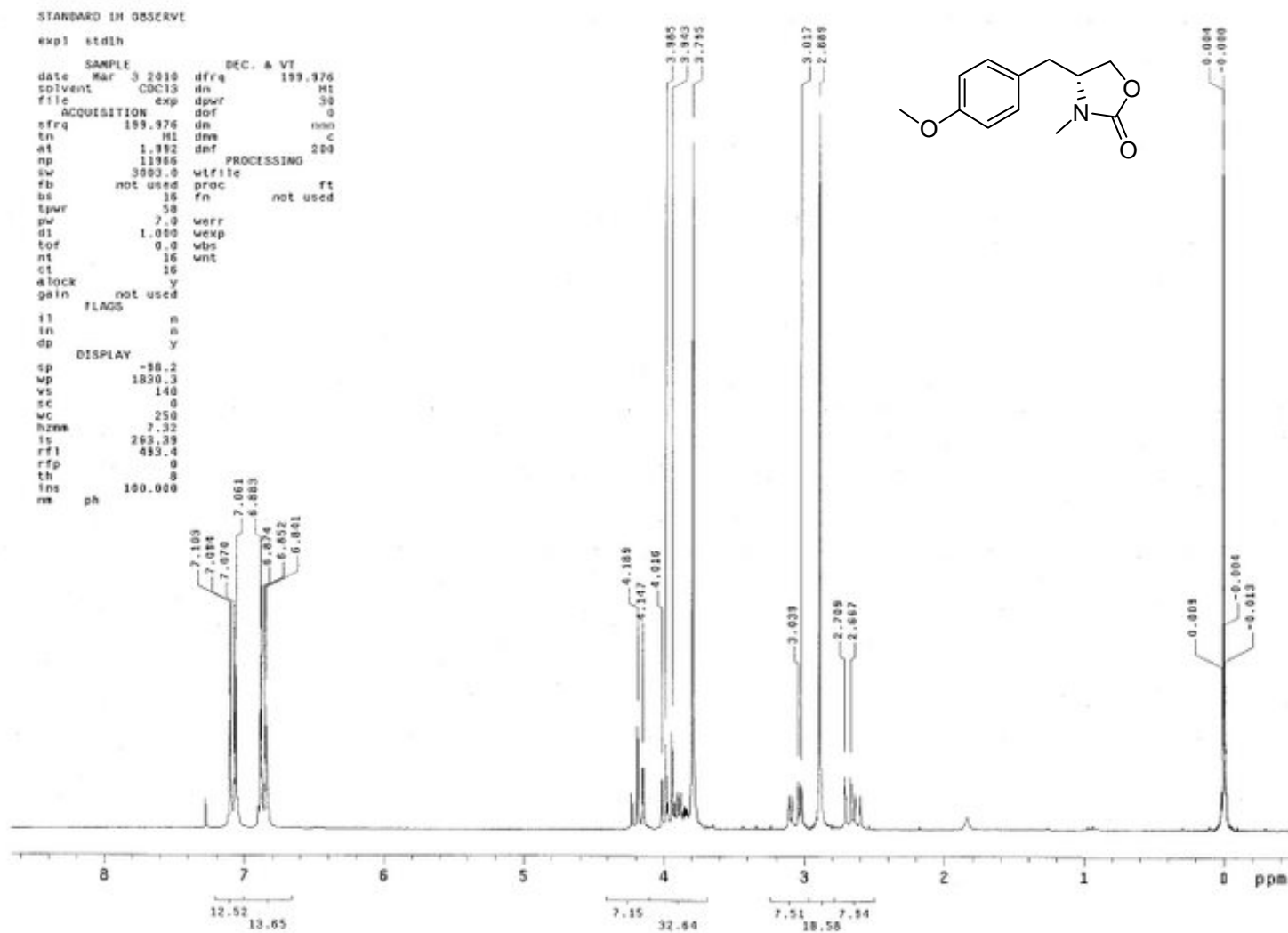


Figure 7: ^1H NMR spectrum of (*R*)-4-(4-methoxybenzyl)-3-methyloxazolidin-2-one (**10**)

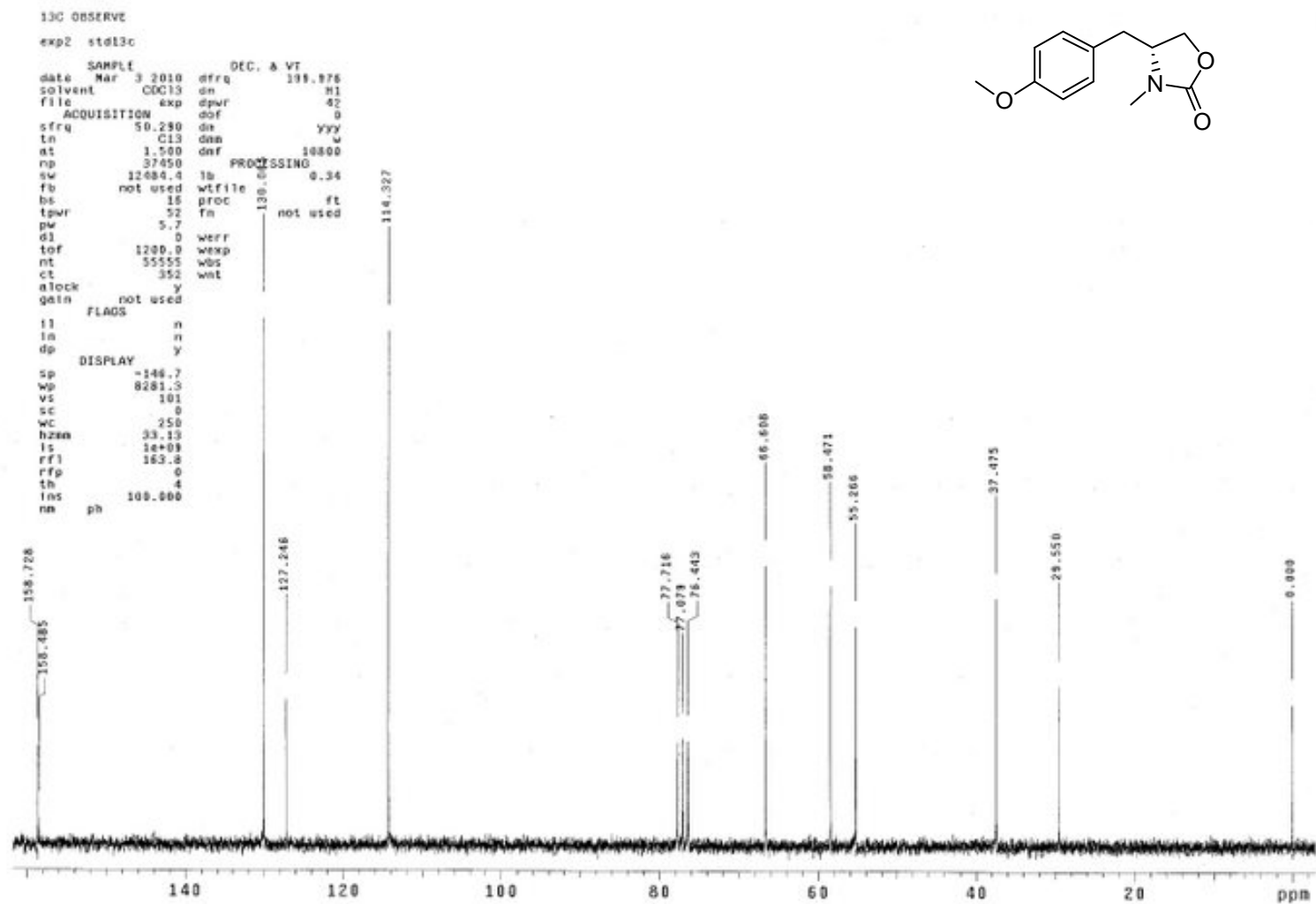


Figure 8: ^{13}C NMR spectrum of (*R*)-4-(4-methoxybenzyl)-3-methyloxazolidin-2-one (**10**)

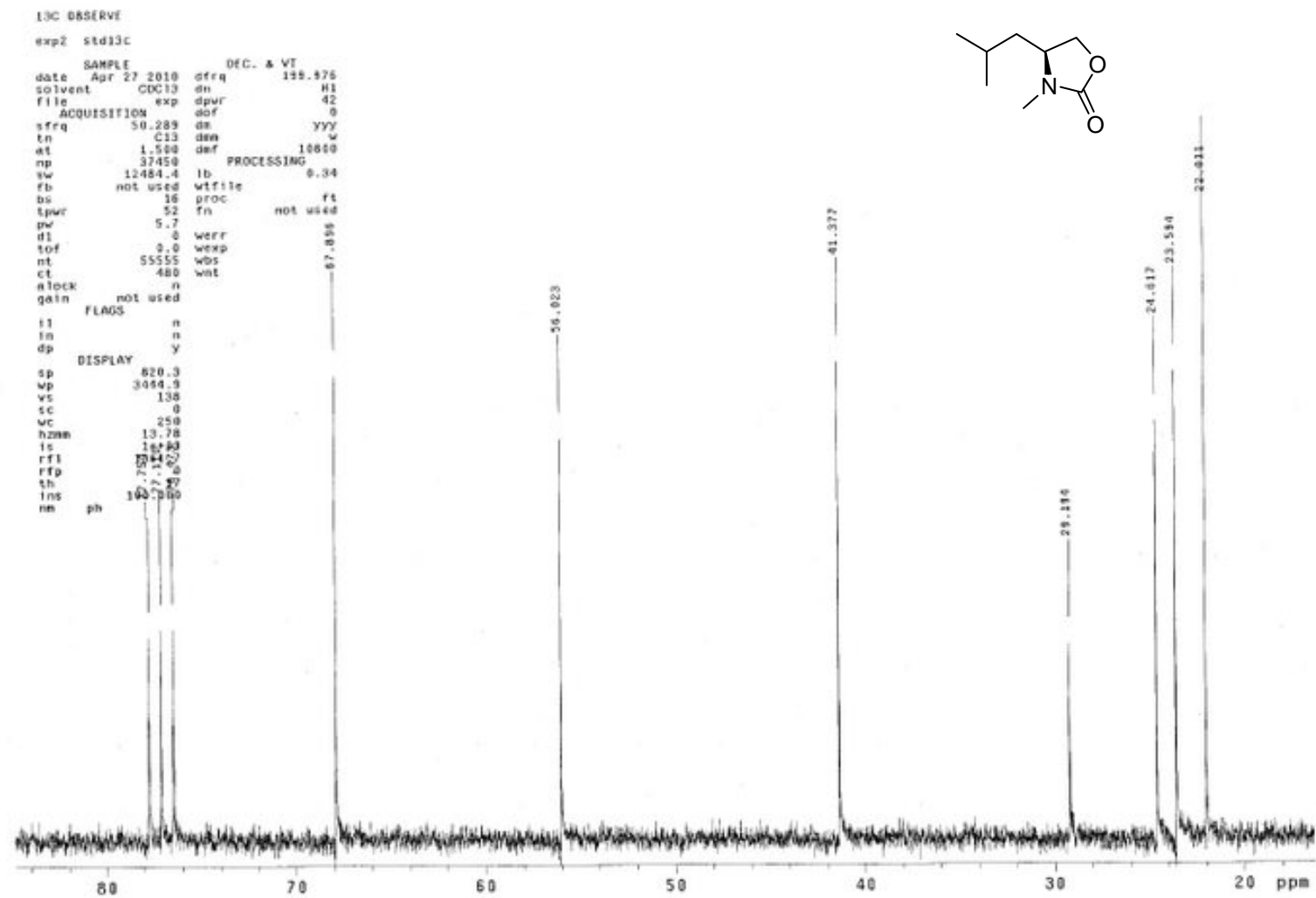


Figure 10: ^{13}C NMR spectrum of (*S*)-4-isobutyl-3-methyloxazolidin-2-one (**11**)

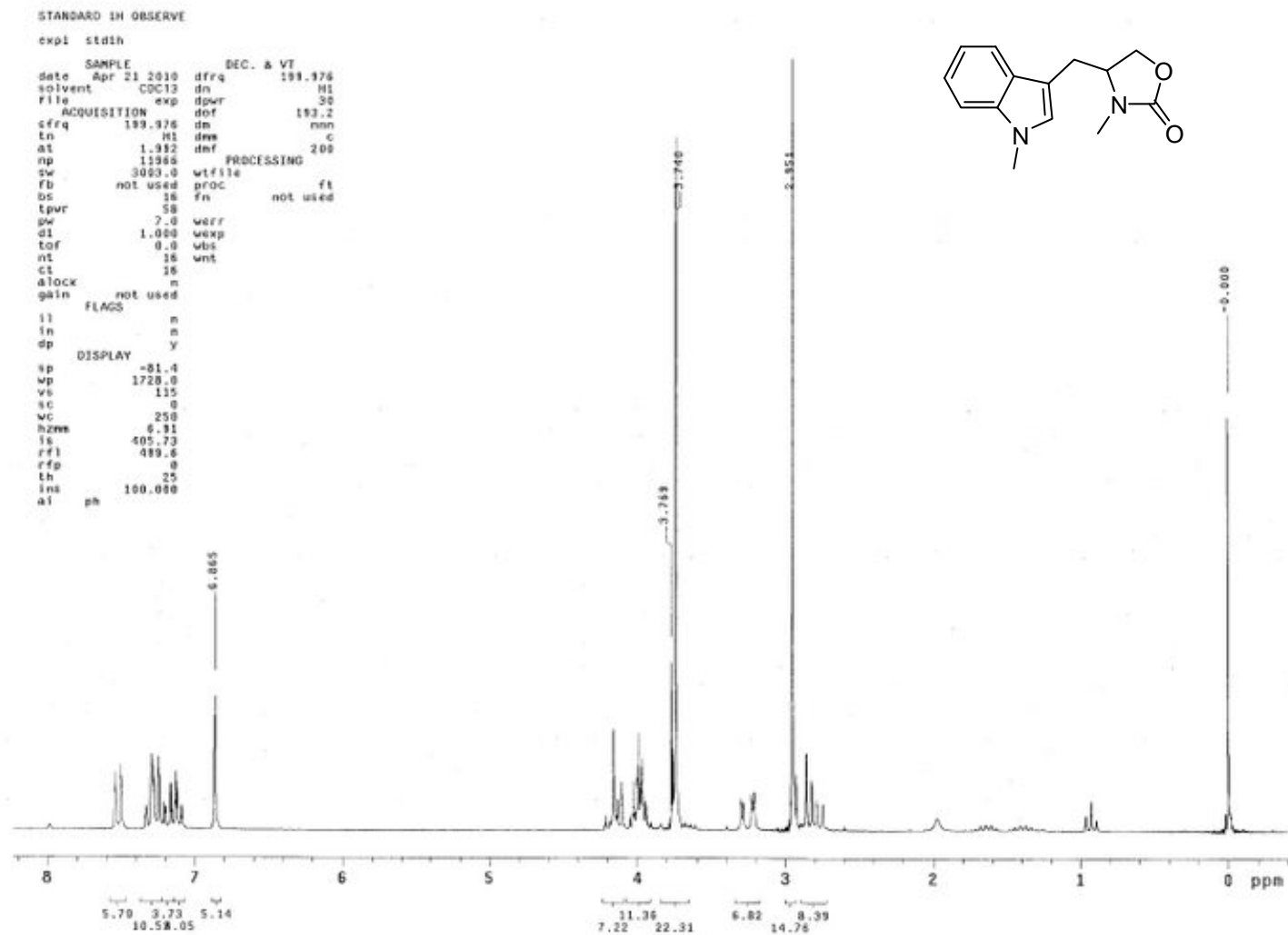


Figure 11: ^1H NMR spectrum of 3-methyl-4-((1-methyl-1*H*-indol-3-yl)methyl)oxazolidin-2-one (**12**)

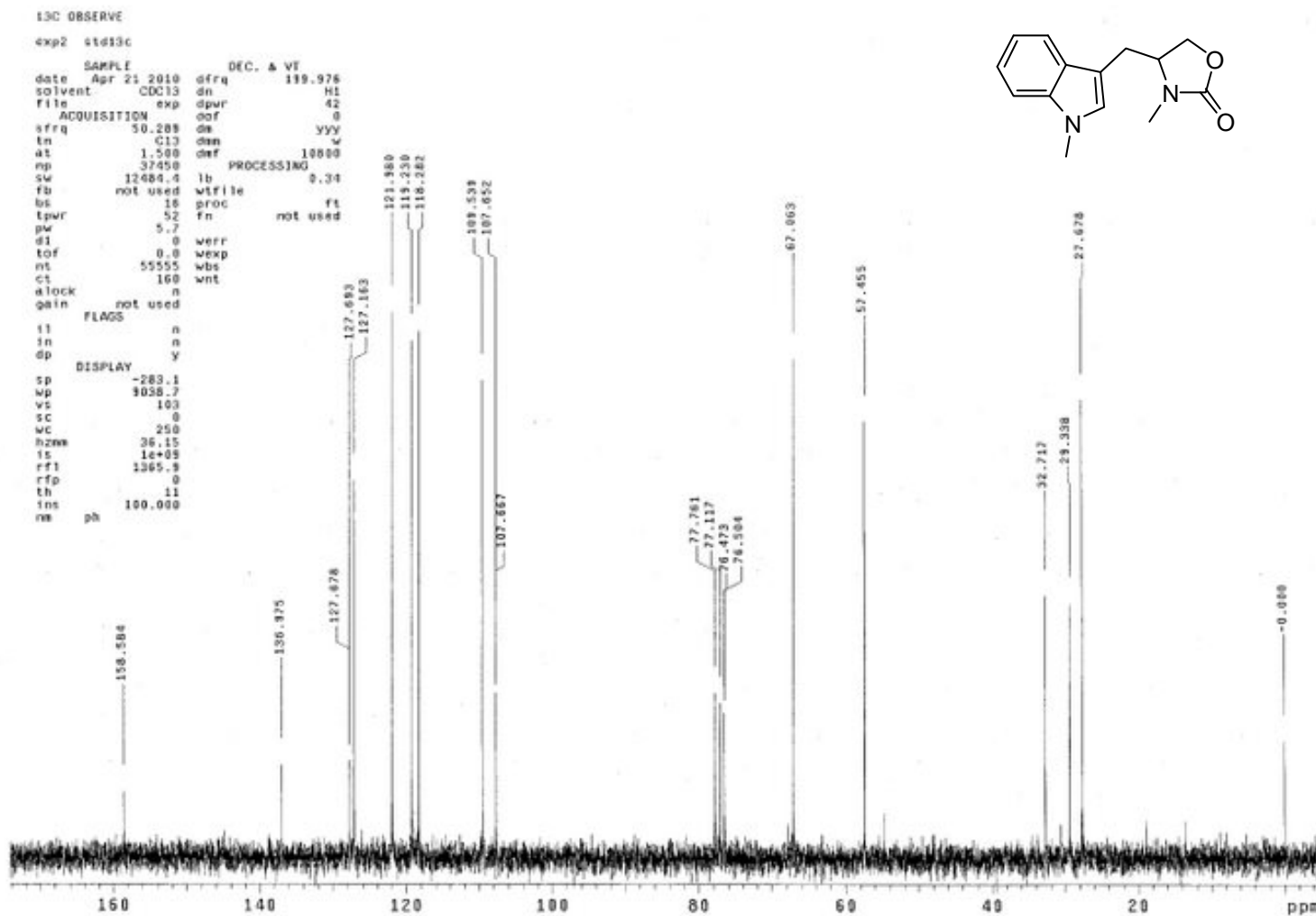


Figure 12: ^{13}C NMR spectrum of 3-methyl-4-((1-methyl-1*H*-indol-3-yl)methyl)oxazolidin-2-one (**12**)

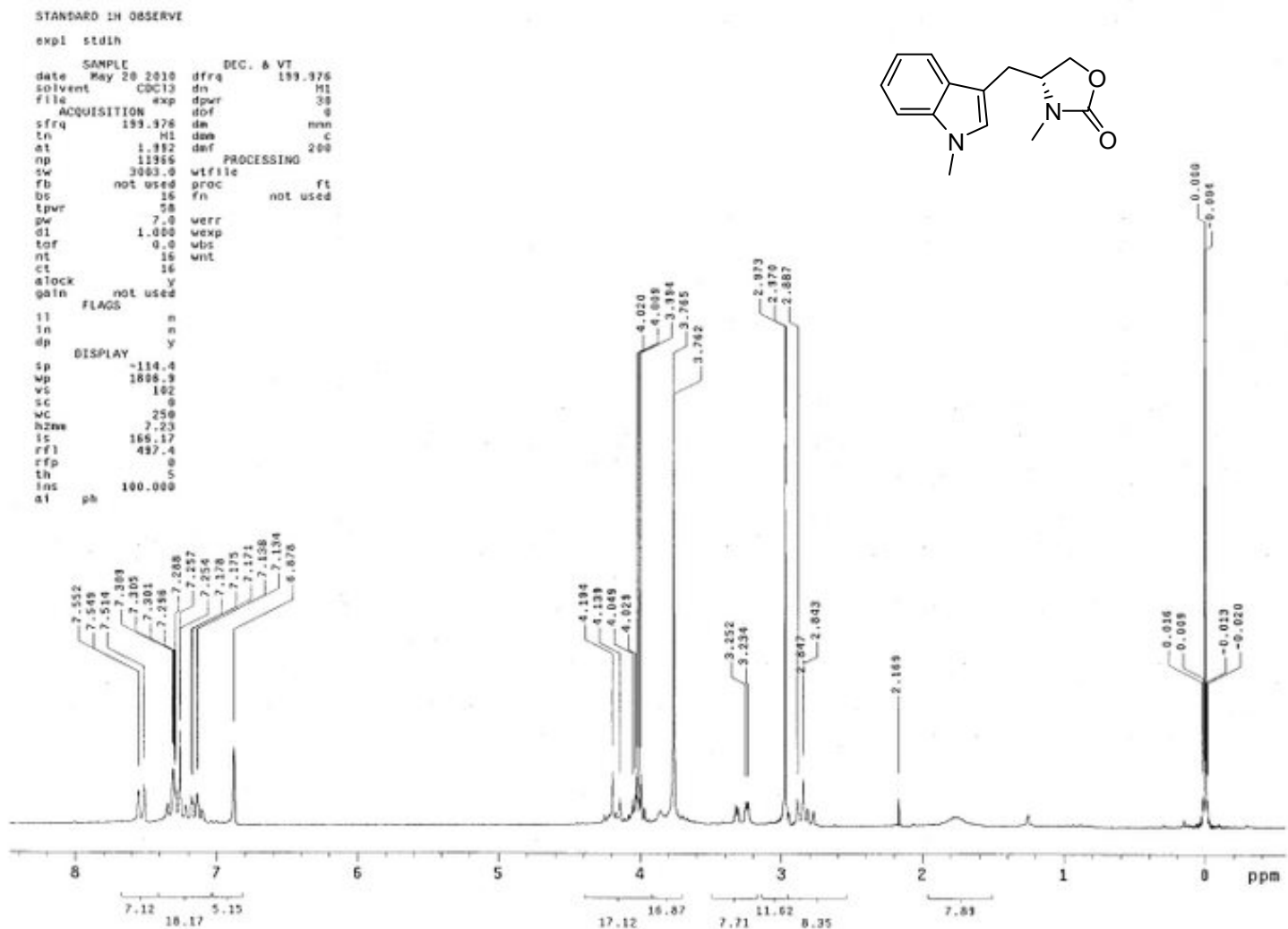


Figure 13: ^1H NMR spectrum of (*R*)-3-methyl-4-((1-methyl-1*H*-indol-3-yl)methyl)oxazolidin-2-one (**13**)

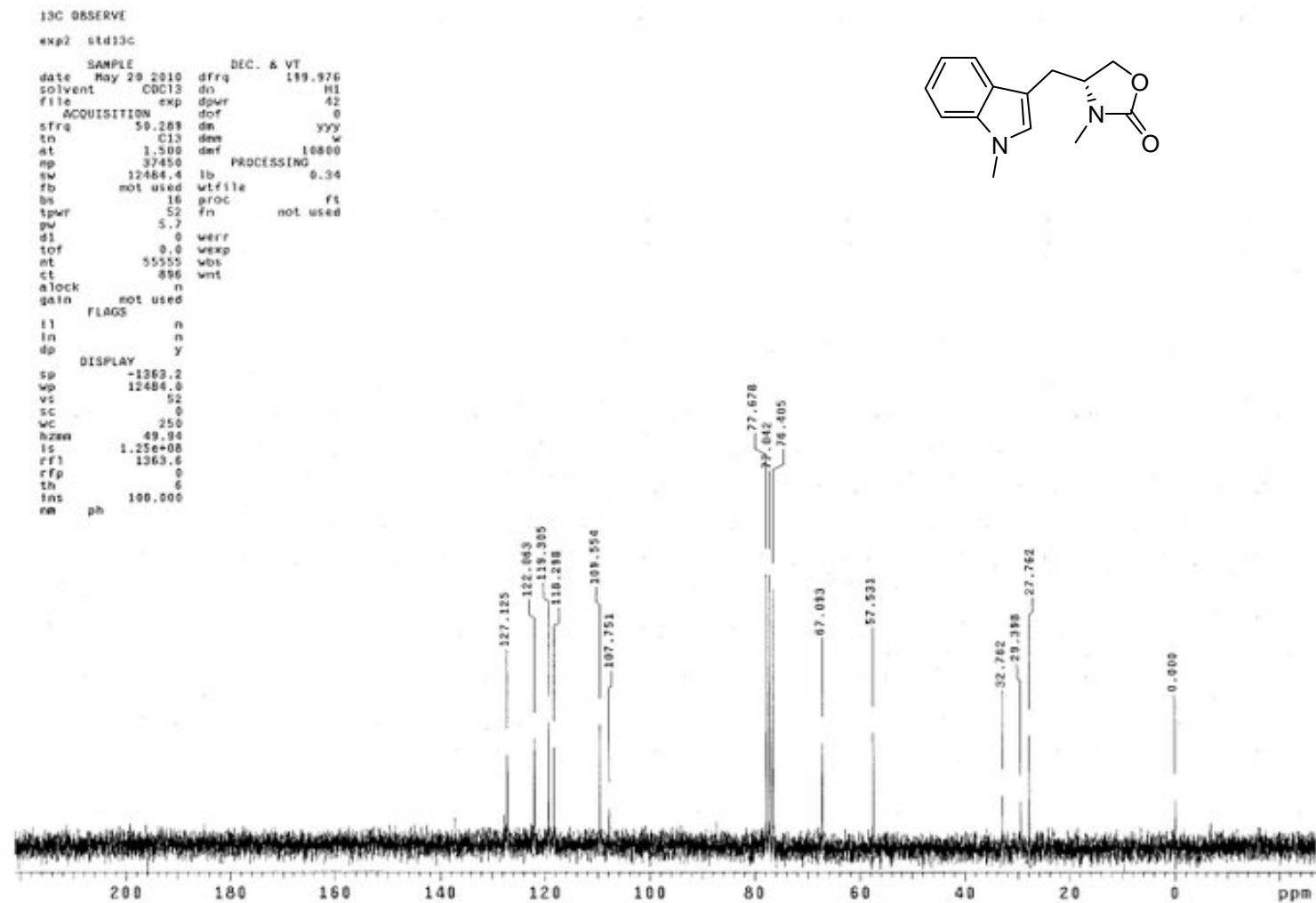


Figure 14: ^{13}C NMR spectrum of (R)-3-methyl-4-((1-methyl-1H-indol-3-yl)methyl)oxazolidin-2-one (13)

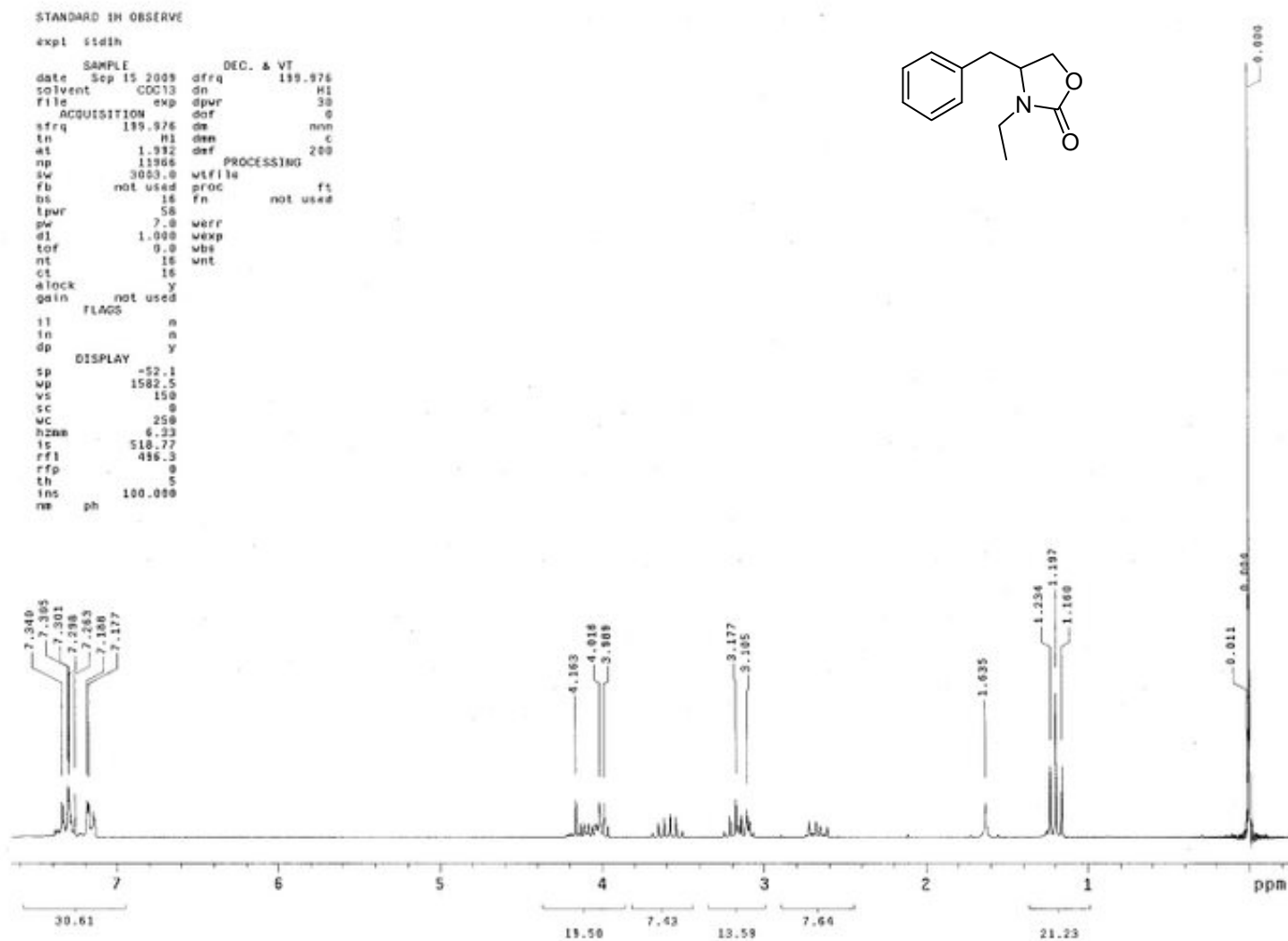


Figure 15: ^1H NMR spectrum of 4-benzyl-3-ethyloxazolidin-2-one (17)

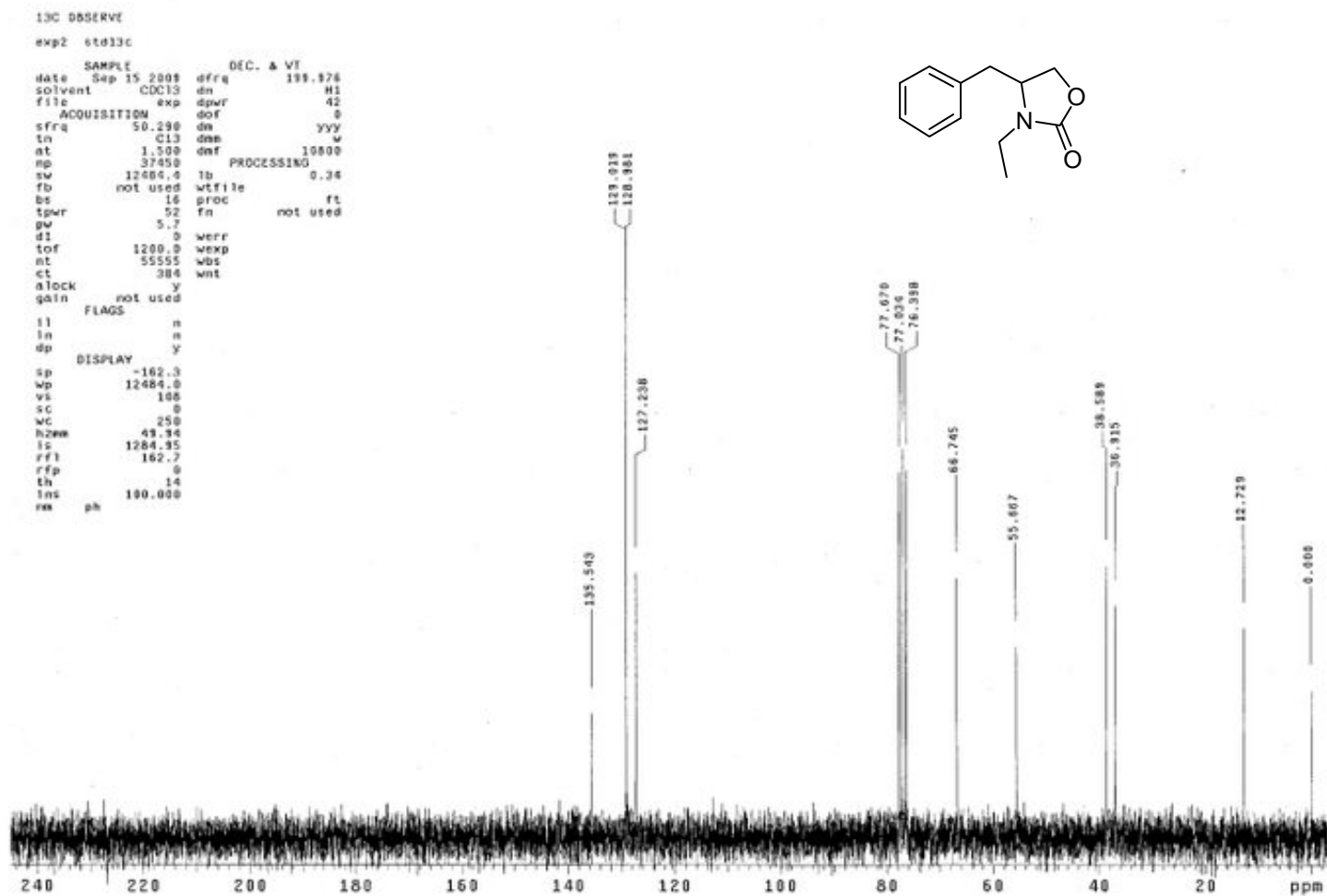


Figure 16: ^{13}C NMR spectrum of 4-benzyl-3-ethyloxazolidin-2-one (**17**)

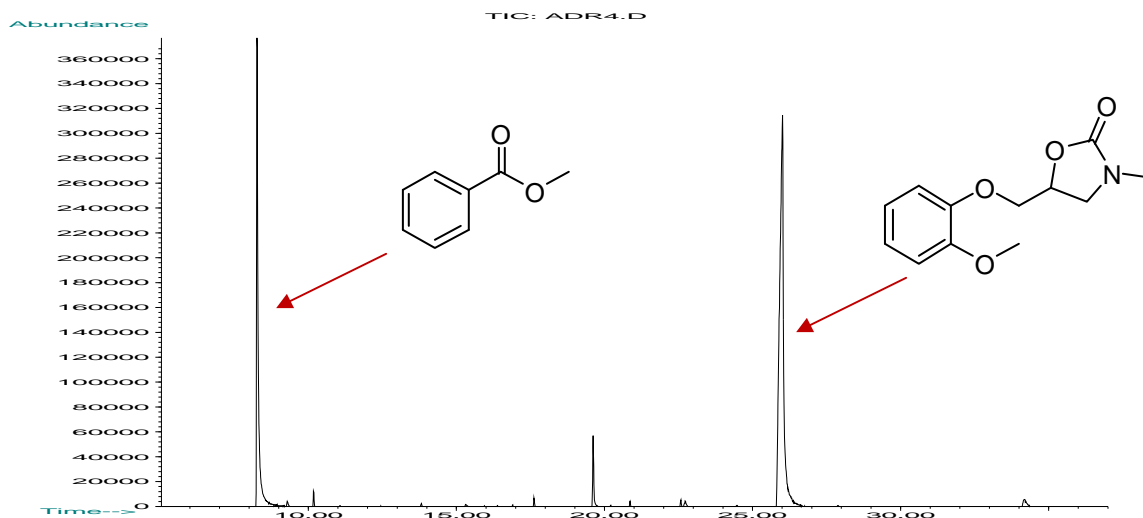


Figure 17: GC of reaction products 5-((2-methoxyphenoxy)-3-methyloxazolidin-2-one (16) and methyl benzoate.

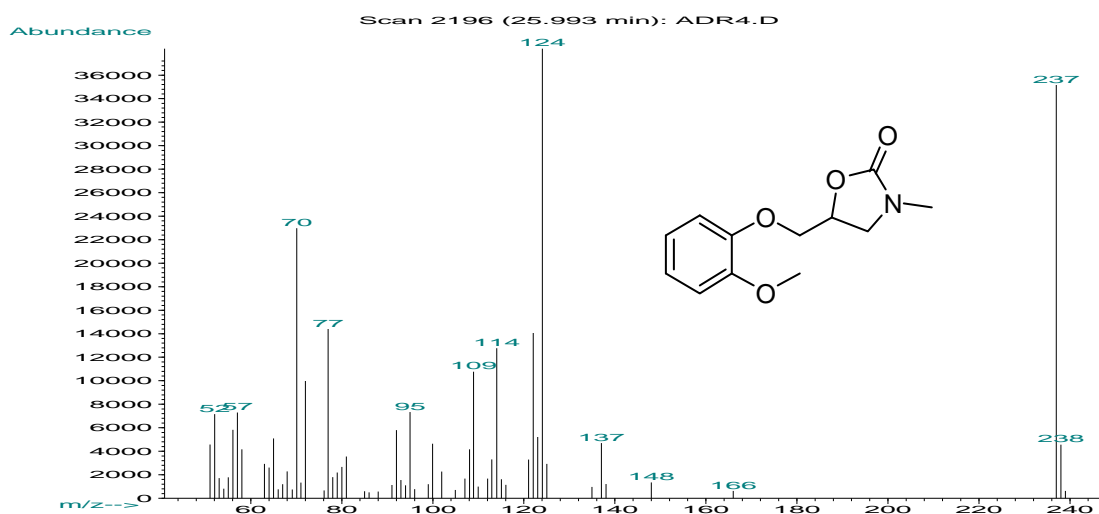


Figure 18: MS of 5-((2-methoxyphenoxy)-3-methyloxazolidin-2-one (16)

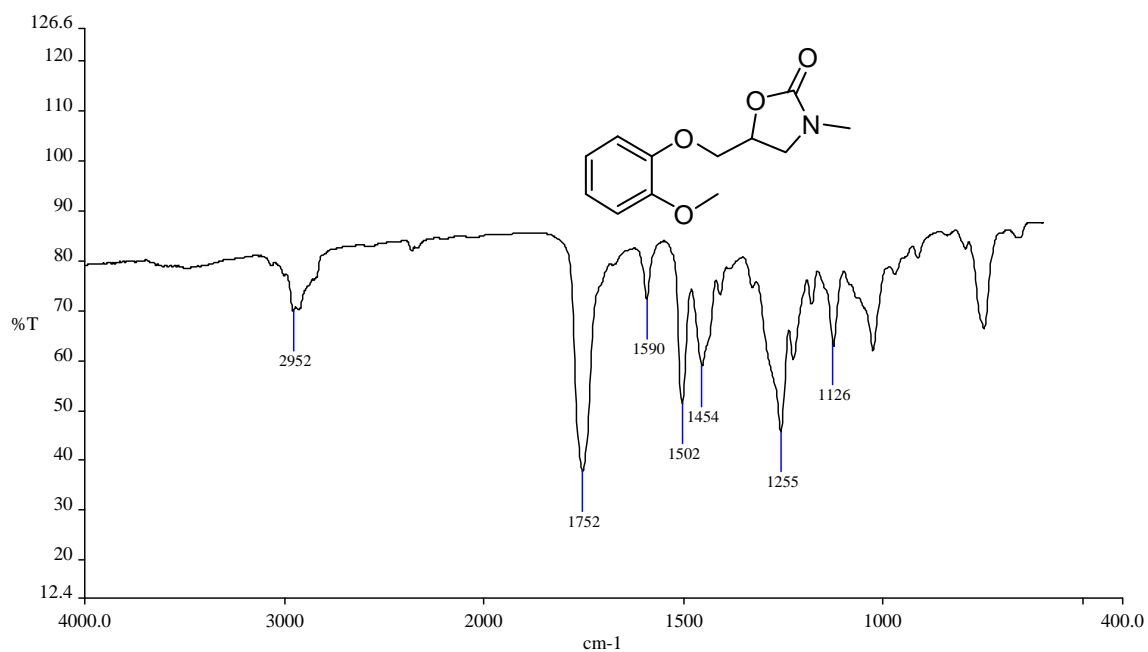


Figure 19: Infrared of 5-((2-methoxyphenoxy)-3-methyloxazolidin-2-one (**16**)