

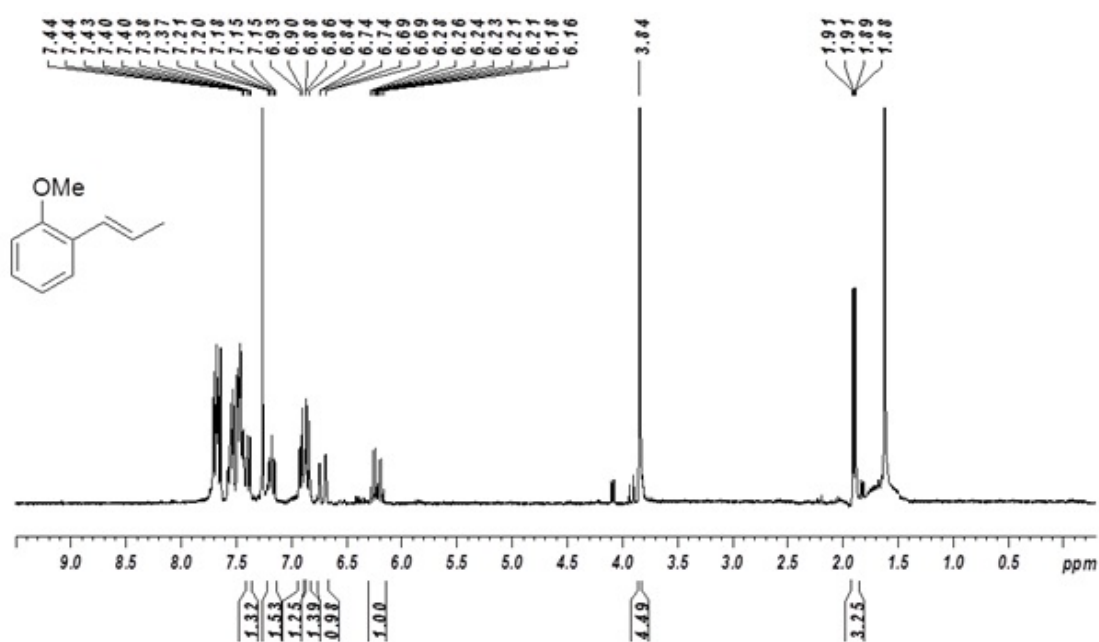
Supplementary Information

Facile and convenient sequential homobimetallic catalytic approach towards β -methylstyrenes. A one-pot Stille cross-coupling/ isomerization strategy

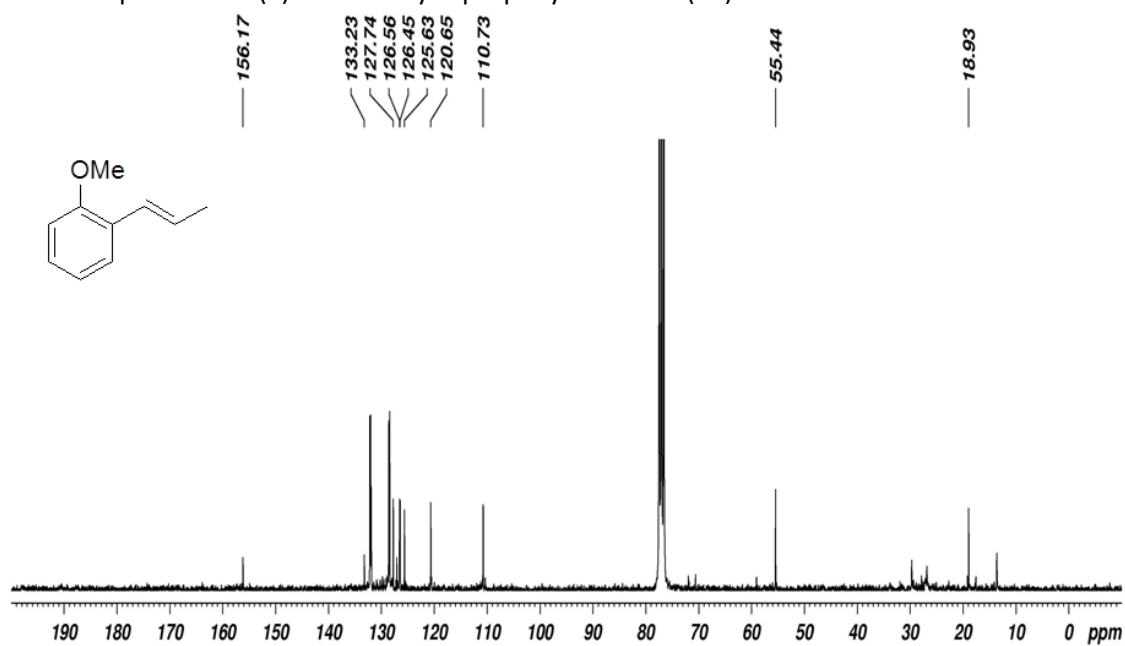
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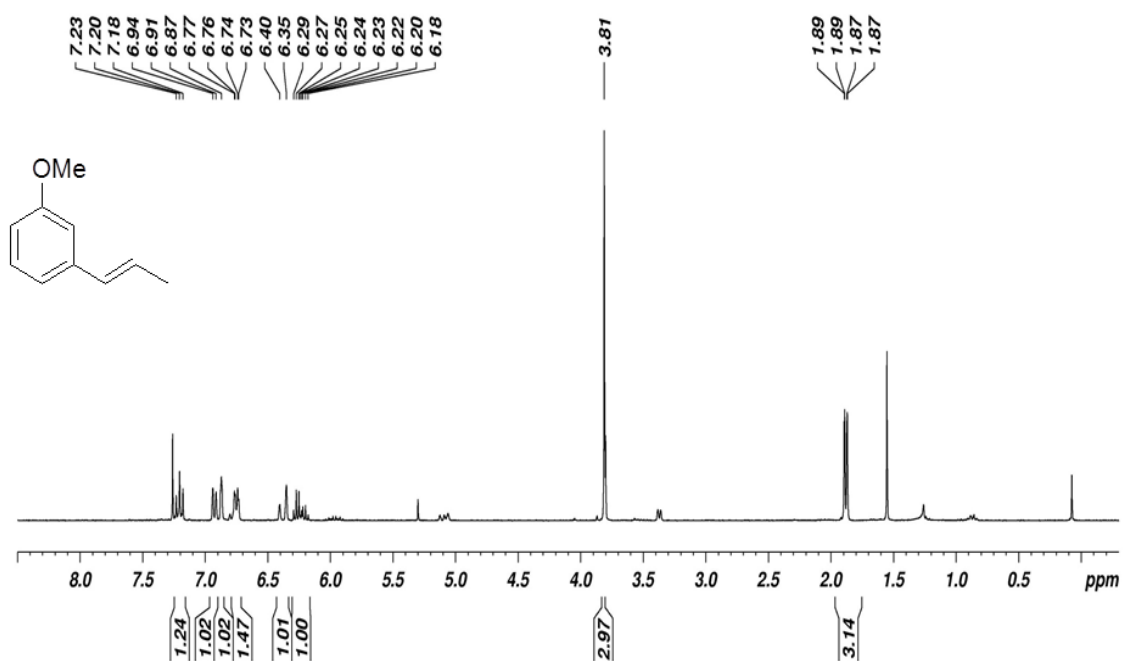
^1H NMR spectrum of (*E*)-1-Methoxy-2-propenyl-benzene (**3a**)



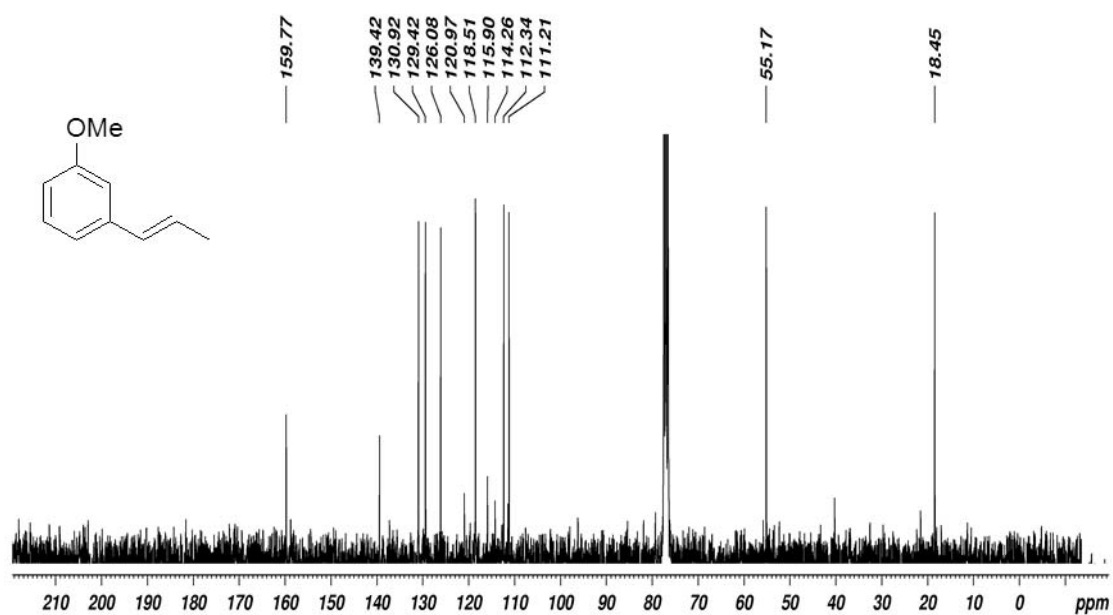
^{13}C NMR spectrum of (*E*)-1-Methoxy-2-propenyl-benzene (**3a**)



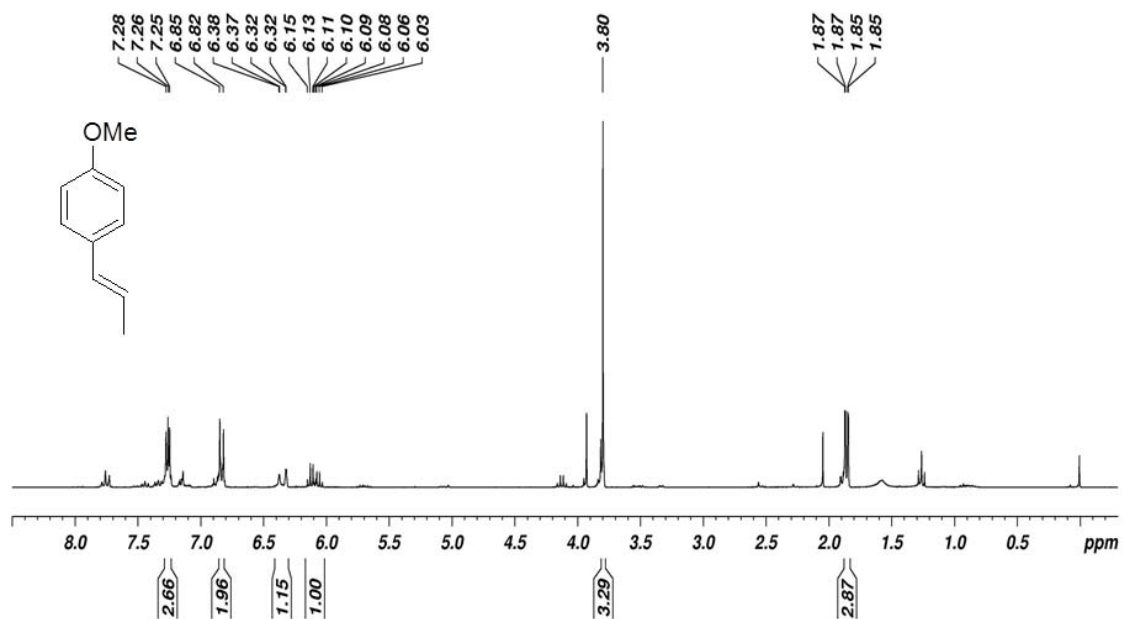
^1H NMR spectrum of (*E*)-1-Methoxy-3-propenyl-benzene (**3b**)



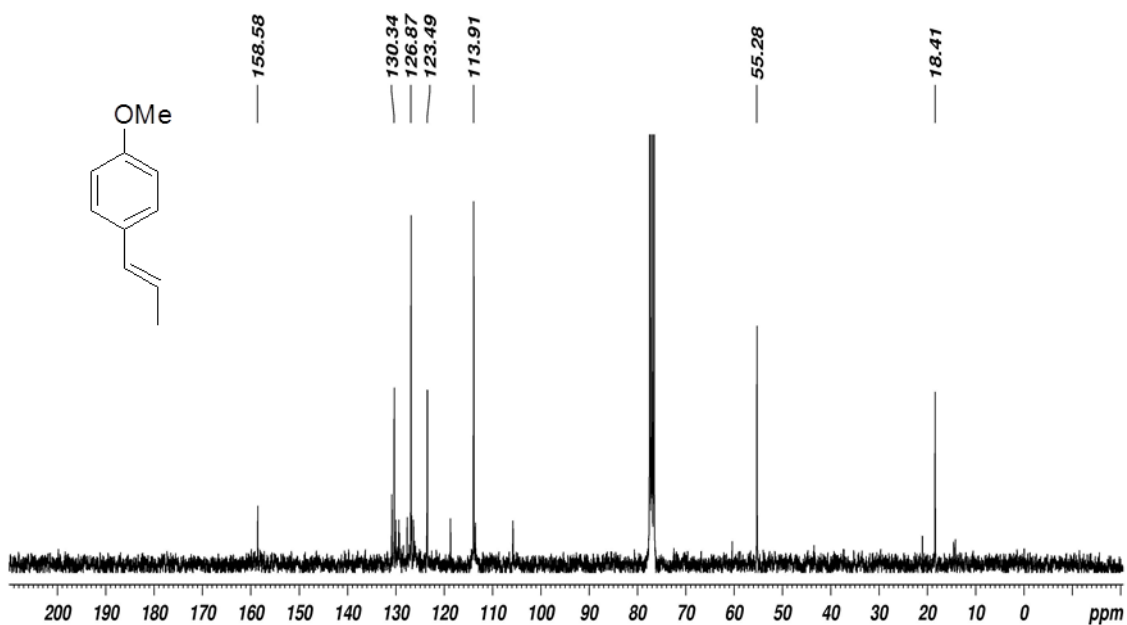
^{13}C NMR spectrum of (*E*)-1-Methoxy-3-propenyl-benzene (**3b**)



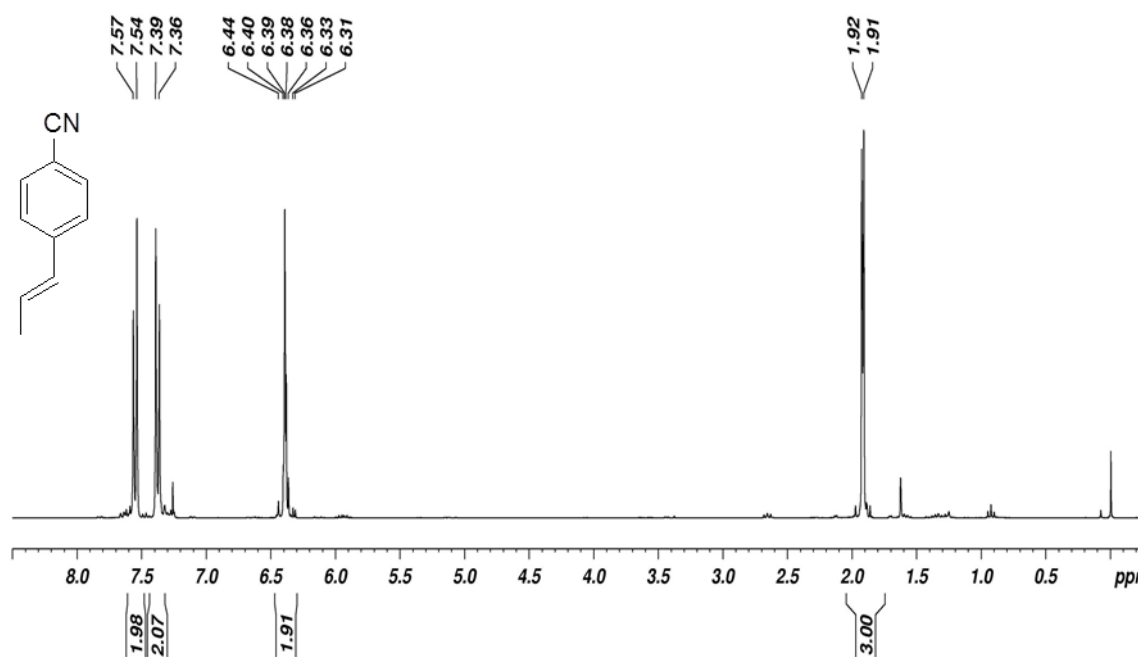
^1H NMR spectrum of (*E*)-1-Methoxy-4-propenyl-benzene (**3c**)



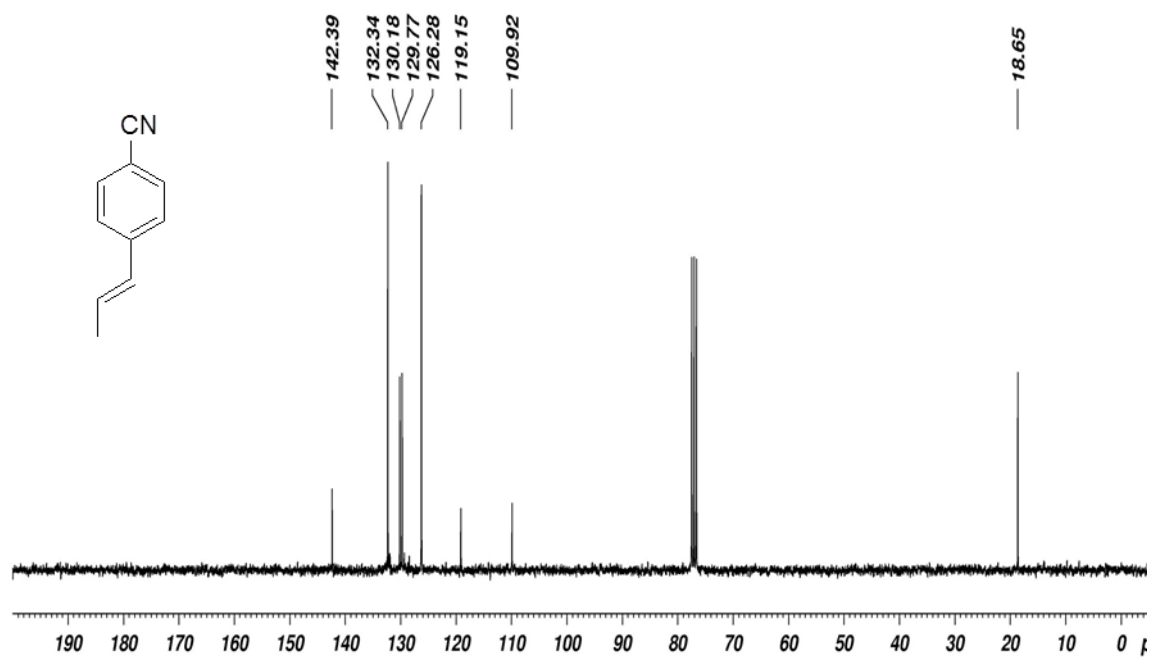
Zoom of ^{13}C NMR of (*E*)-1-Methoxy-4-propenyl-benzene (**3c**)



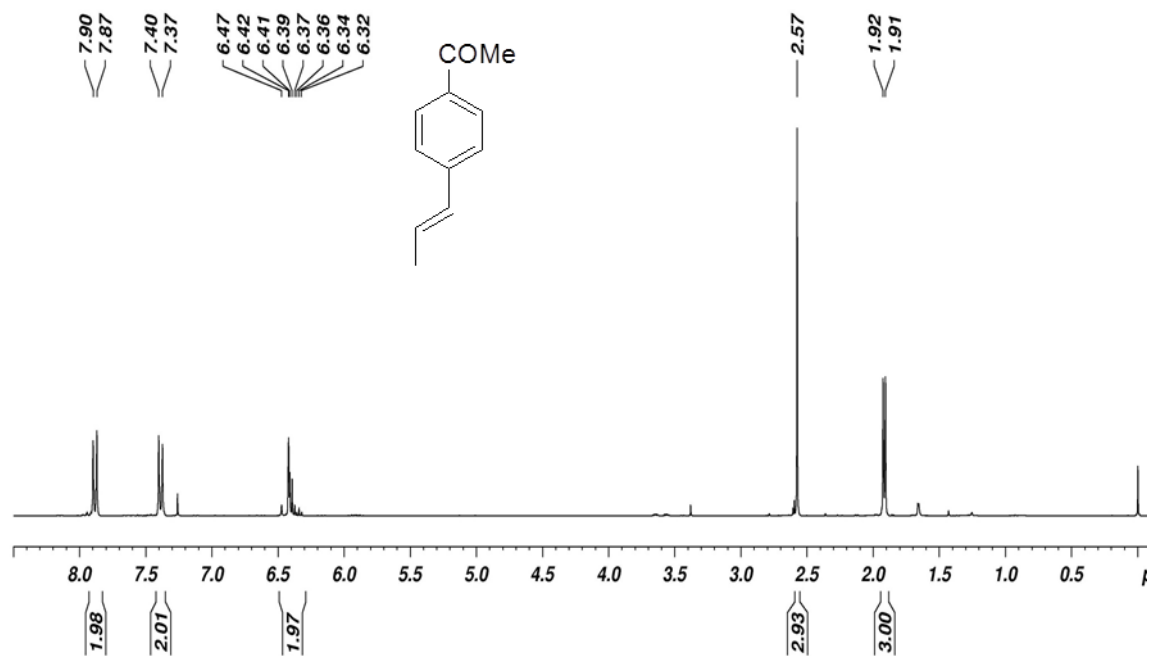
^1H NMR spectrum of (*E*)-4-propenylbenzonitrile (**3d**)



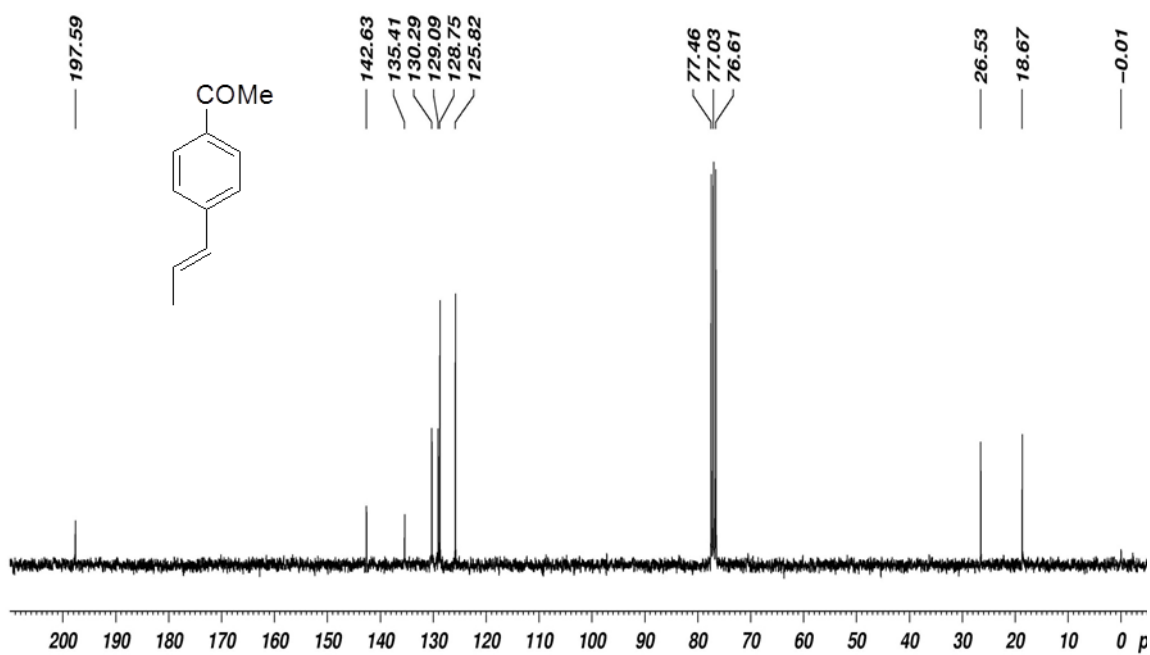
^{13}C NMR spectrum of (*E*)-4-propenylbenzonitrile (**3d**)



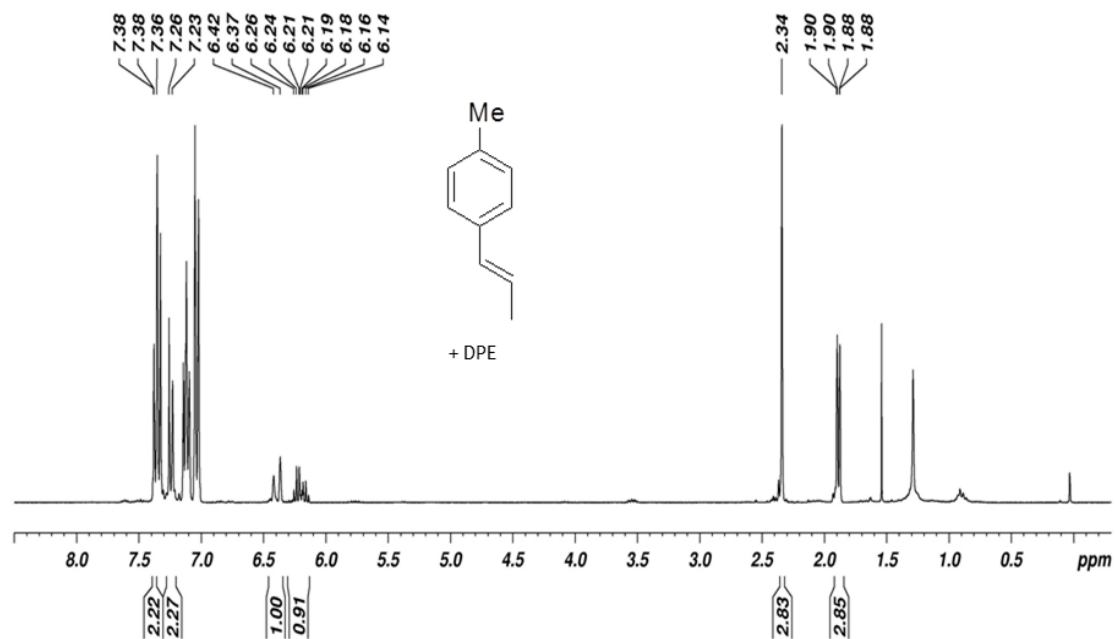
^1H NMR spectrum of (*E*)-1-(4-Propenyl-phenyl)-ethanone (**3e**)



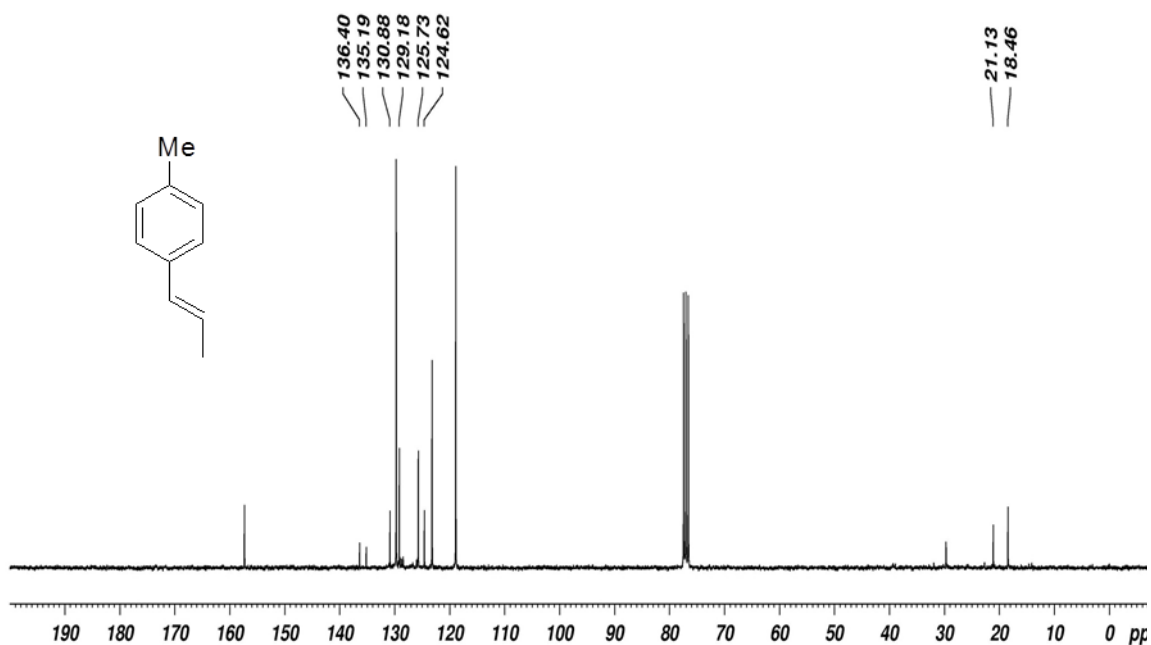
^{13}C NMR spectrum of (*E*)-1-(4-Propenyl-phenyl)-ethanone (**3e**)



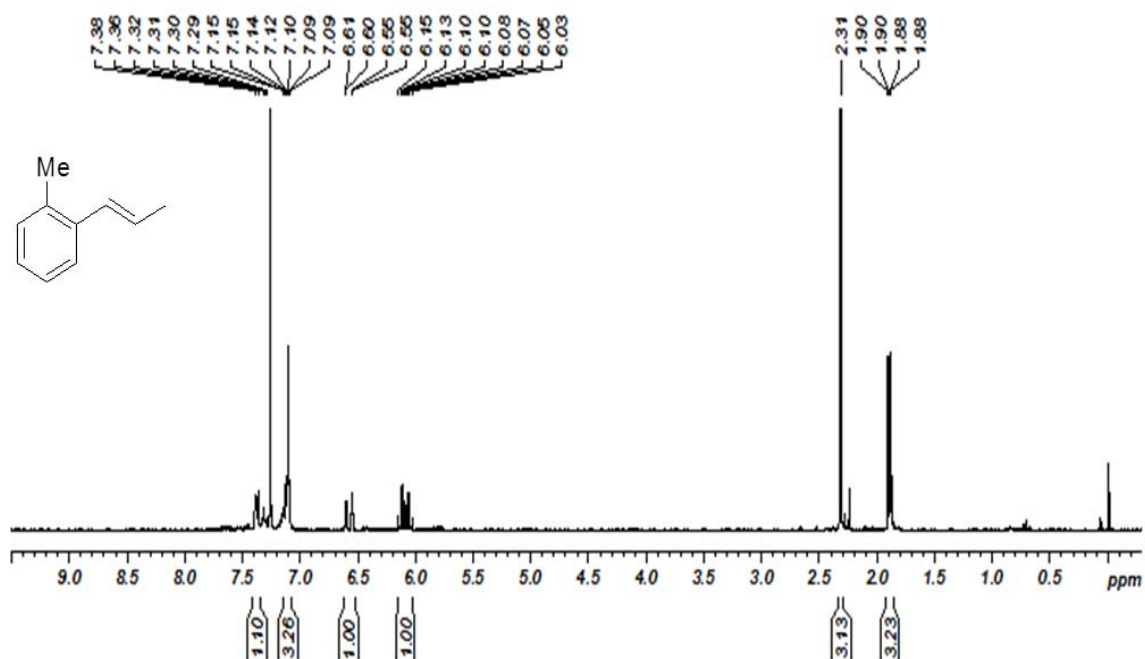
^1H NMR spectrum of (*E*)-1-Methyl-4-propenyl-benzene (**3f**)



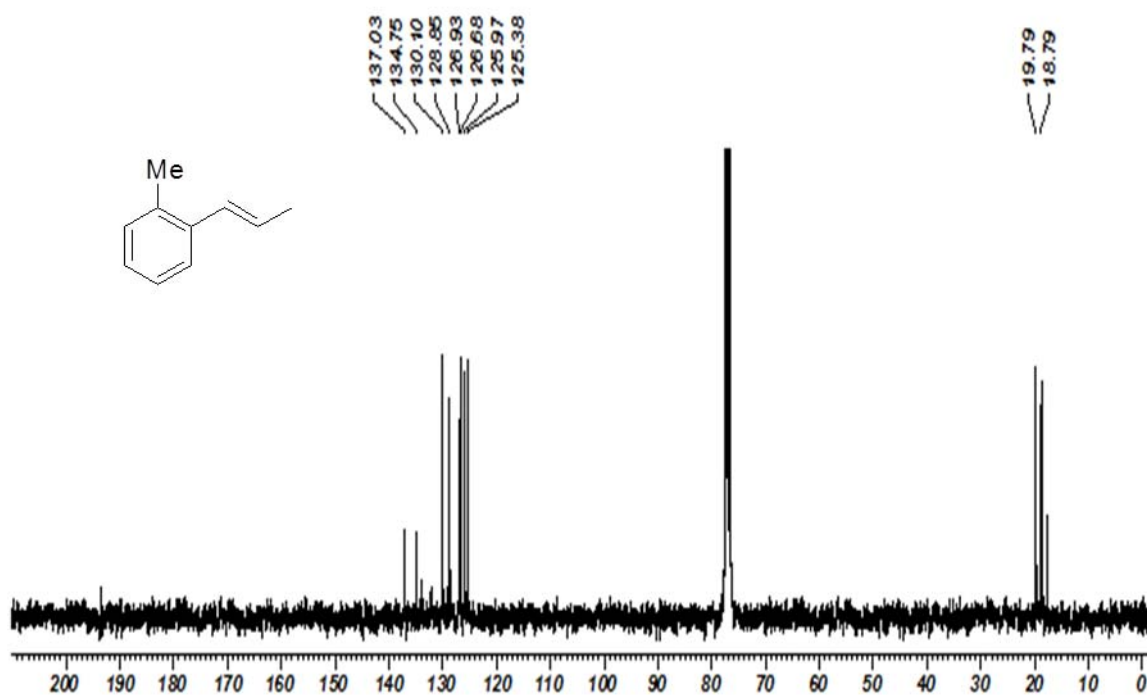
^{13}C NMR spectrum of (*E*)-1-Methyl-4-propenyl-benzene (**3f**)



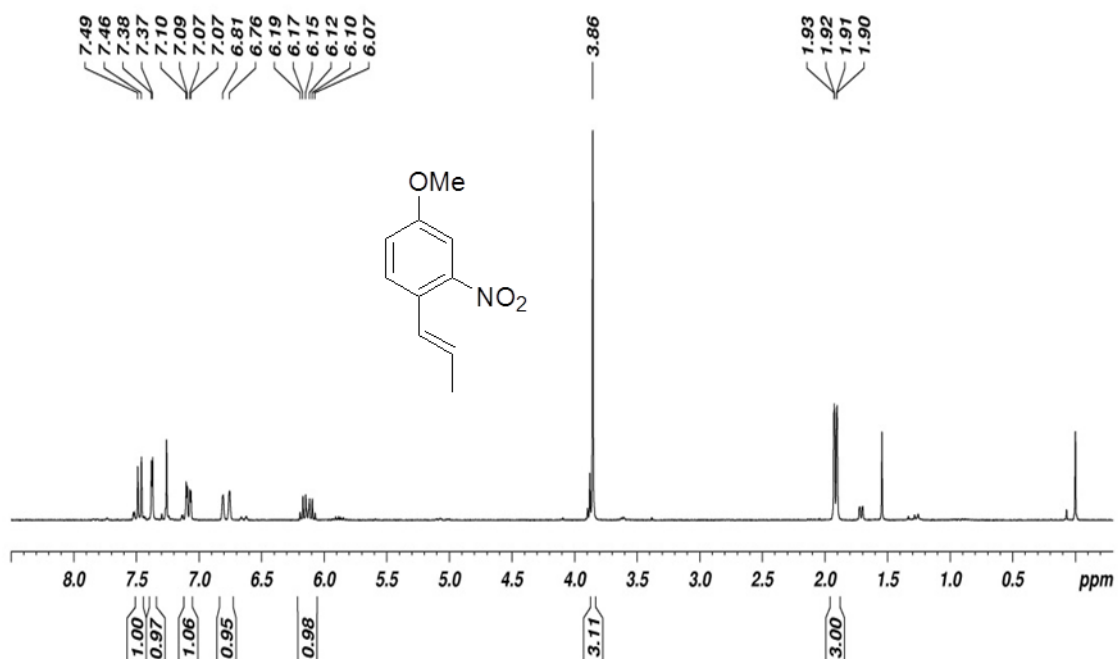
^1H NMR spectrum of (*E*)-1-Methyl-2-propenyl-benzene (**3g**)



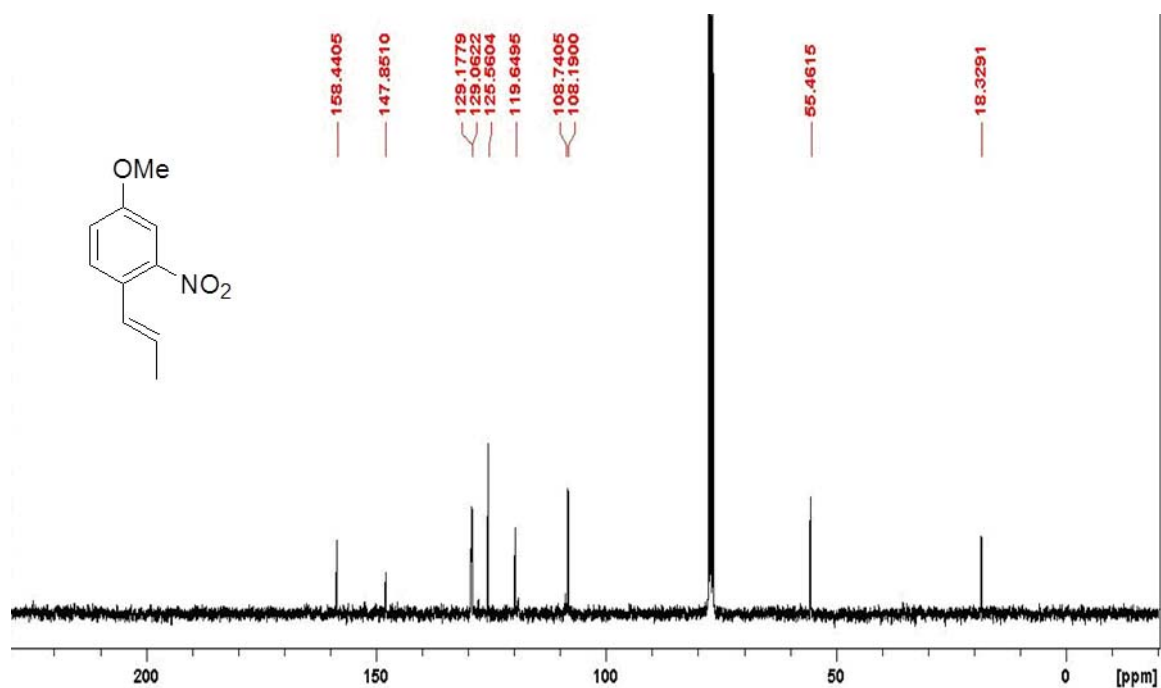
^{13}C NMR spectrum of (*E*)-1-Methyl-2-propenyl-benzene (**3g**)



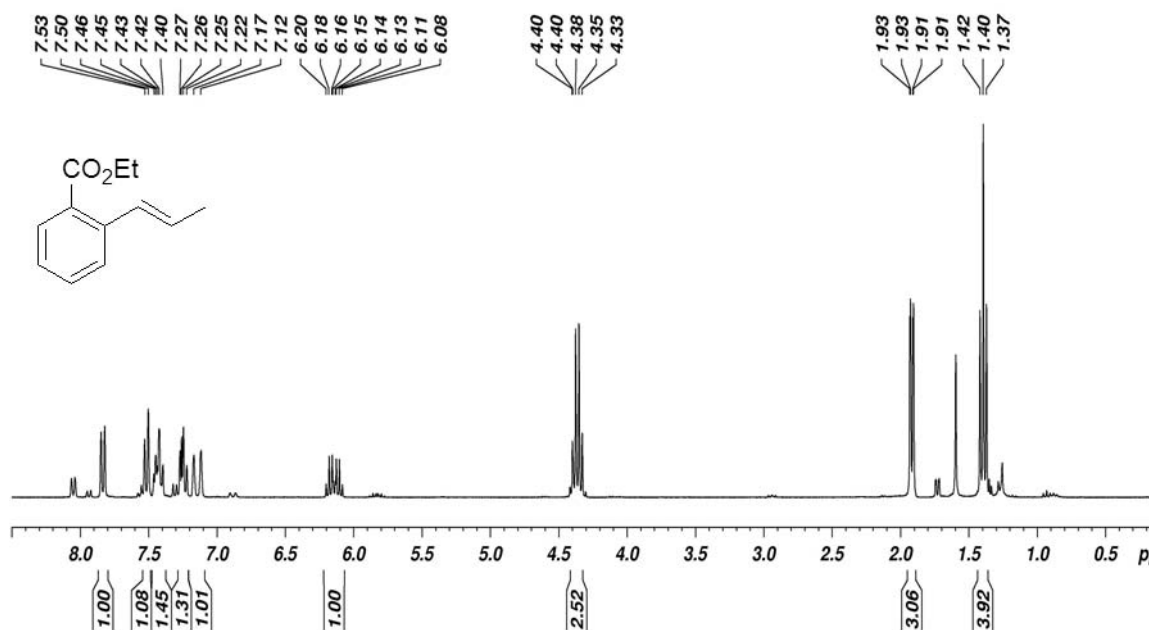
^1H NMR spectrum of (*E*)-4-Methoxy-2-nitro-1-propenyl-benzene (**3h**)



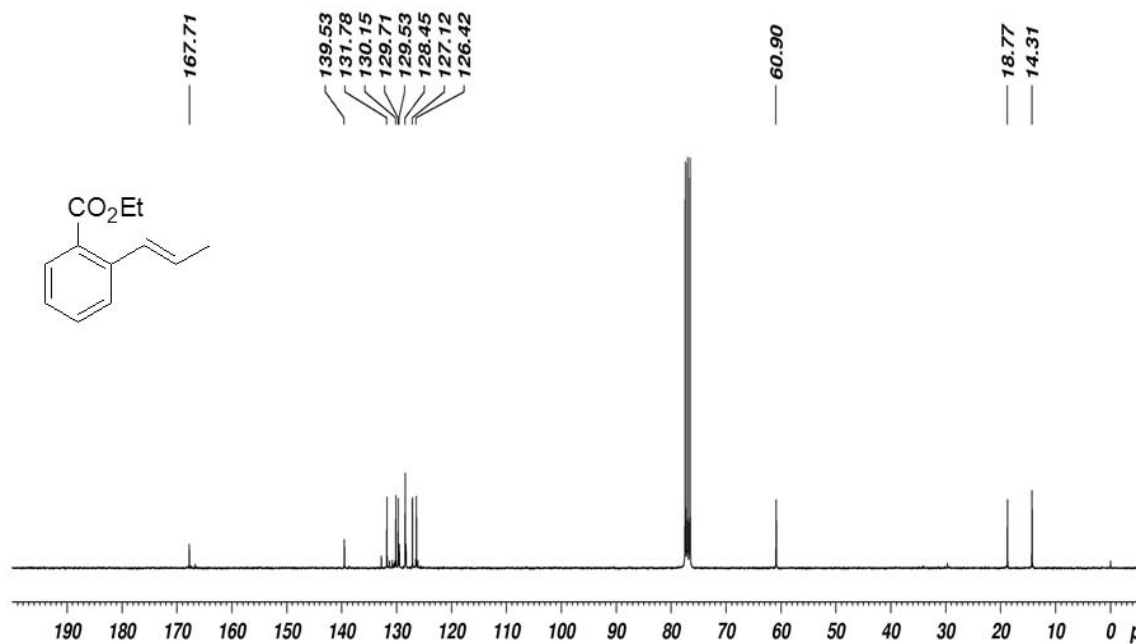
^{13}C NMR spectrum of (*E*)-4-Methoxy-2-nitro-1-propenyl-benzene (**3h**)



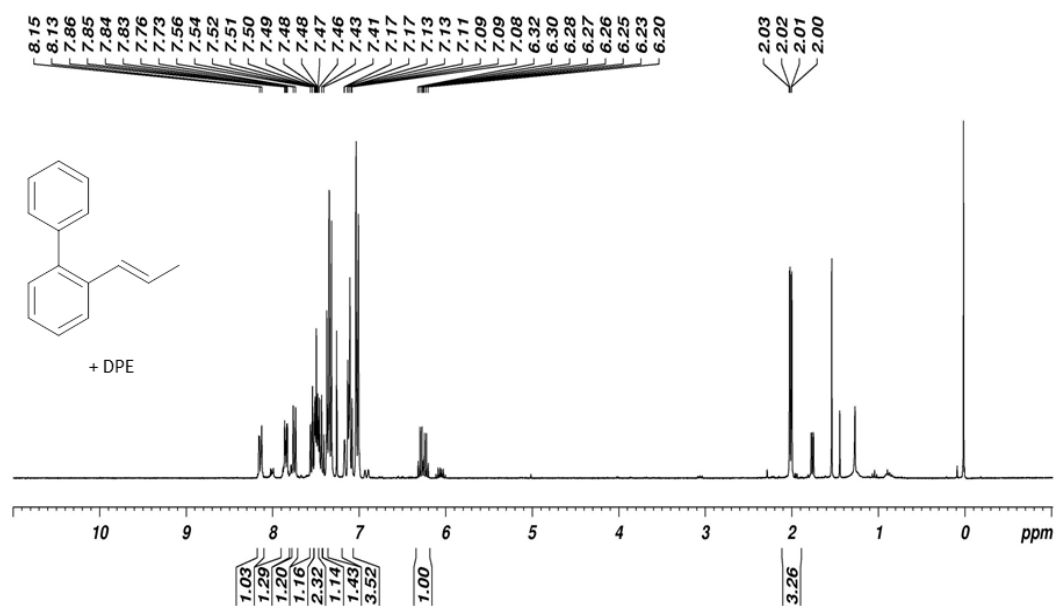
^1H NMR spectrum of (*E*)-2-Propenyl-benzoic acid ethyl ester (**3i**)



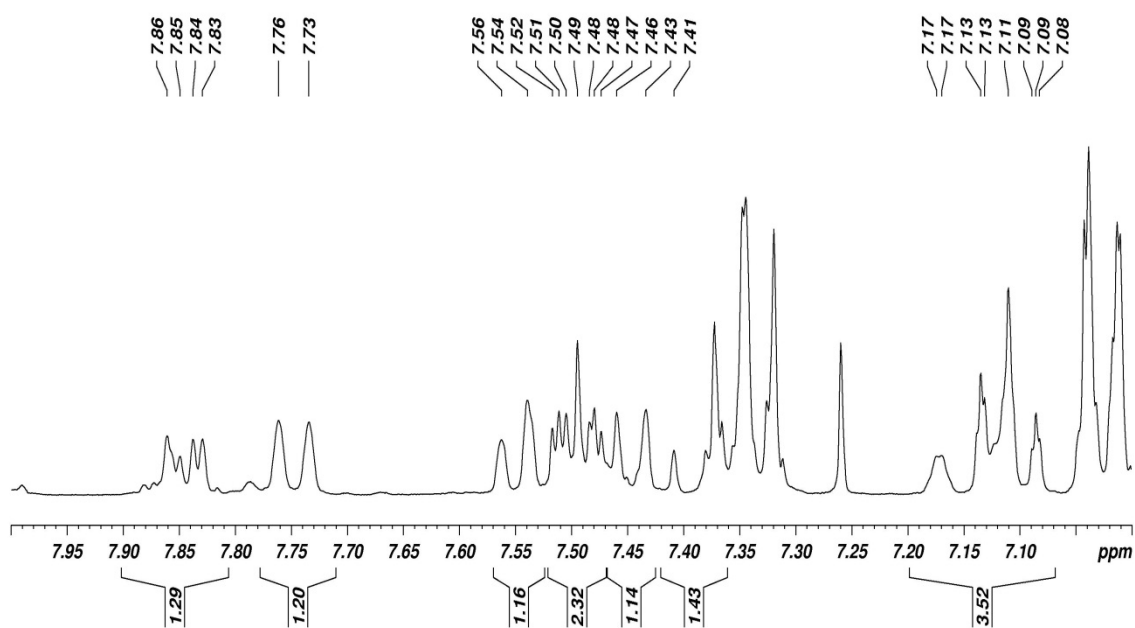
^{13}C NMR spectrum of (*E*)-2-Propenyl-benzoic acid ethyl ester (**3i**)



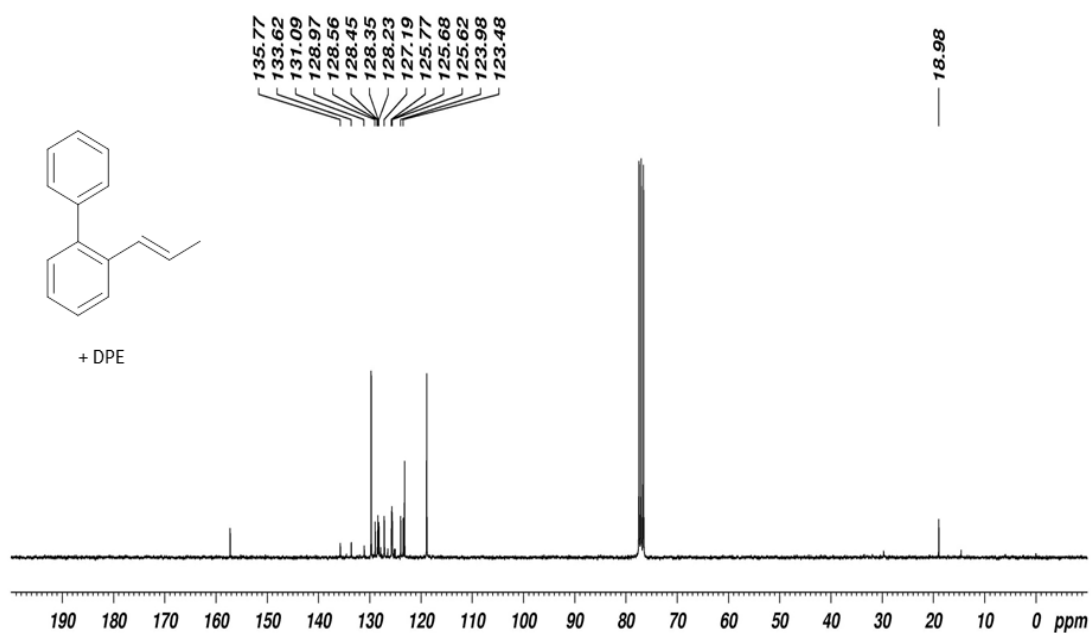
^1H NMR spectrum of (*E*)-2-Propenyl-biphenyl (**3j**)



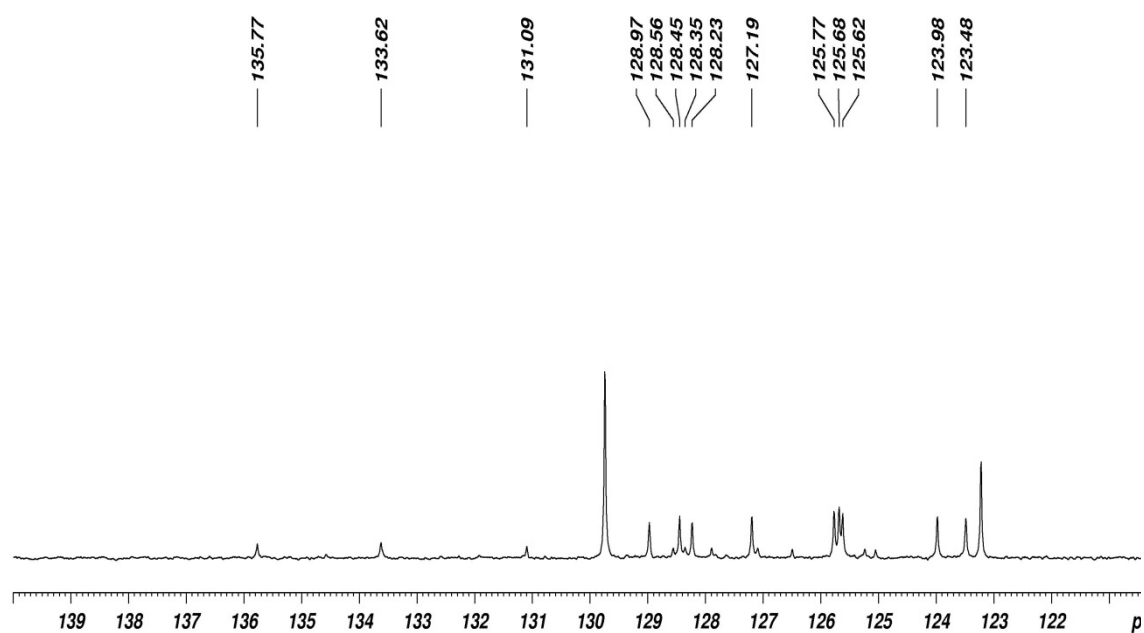
Zoom of ^1H NMR spectrum between 7.0 and 8.0 ppm of (*E*)-2-Propenyl-biphenyl (**3j**)



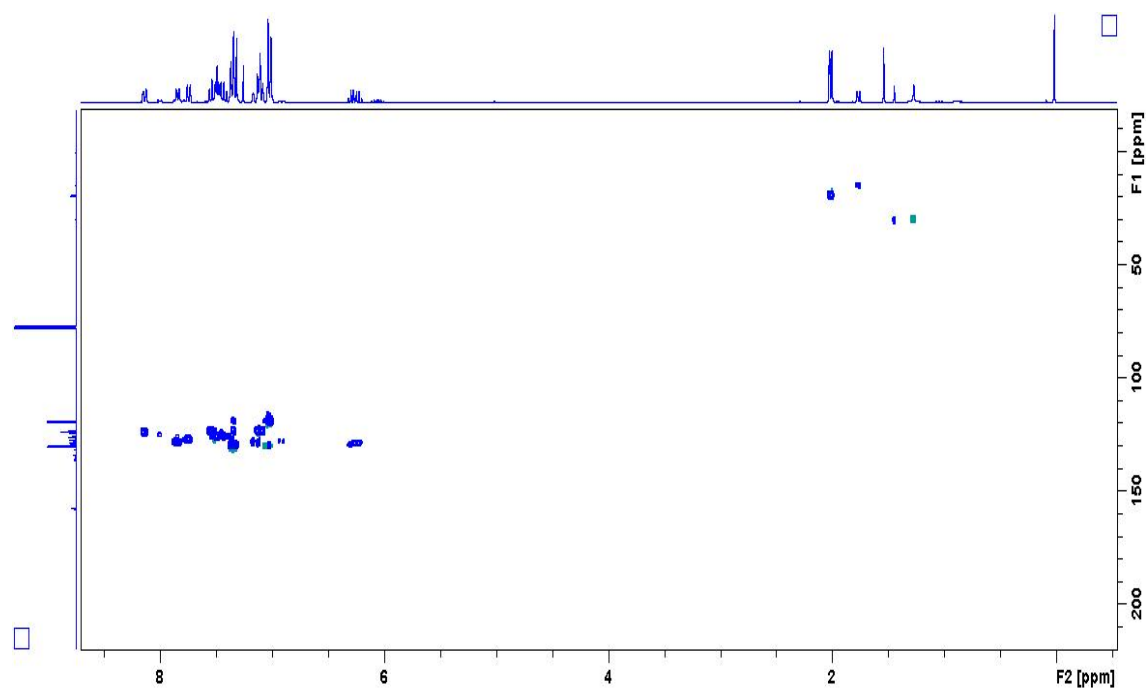
^{13}C NMR spectrum of (*E*)-2-Propenyl-biphenyl (**3j**)



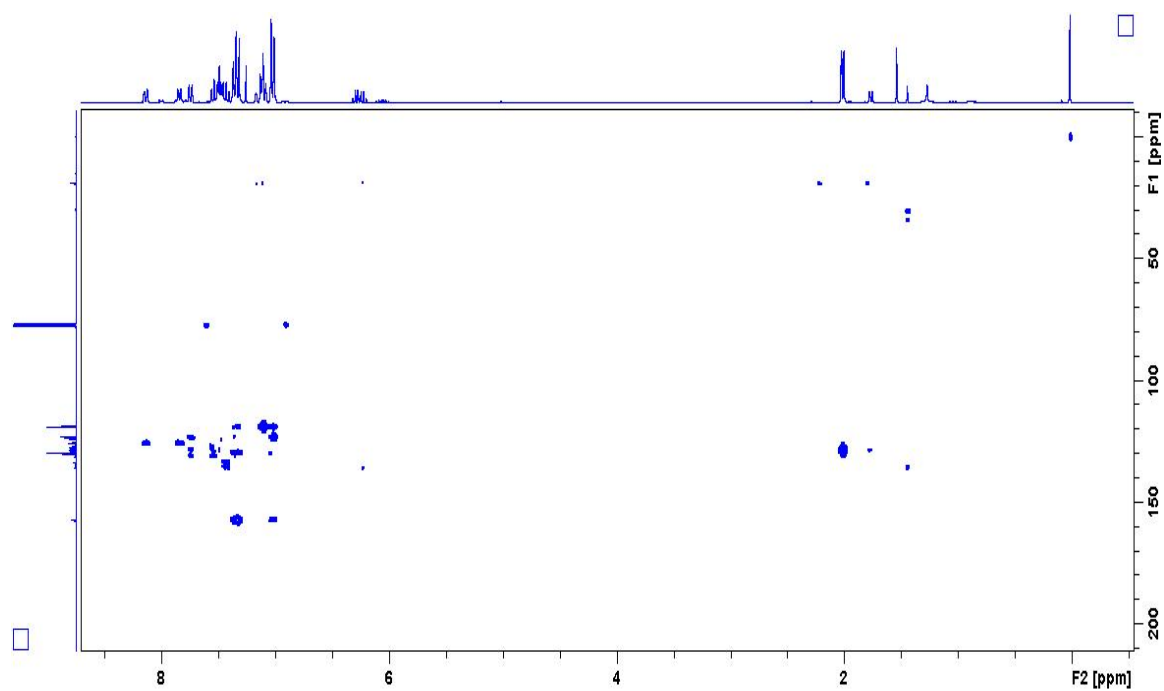
Zoom of ^{13}C NMR spectrum between 120.0 and 140.0 ppm of (*E*)-2-Propenyl-biphenyl (**3j**)



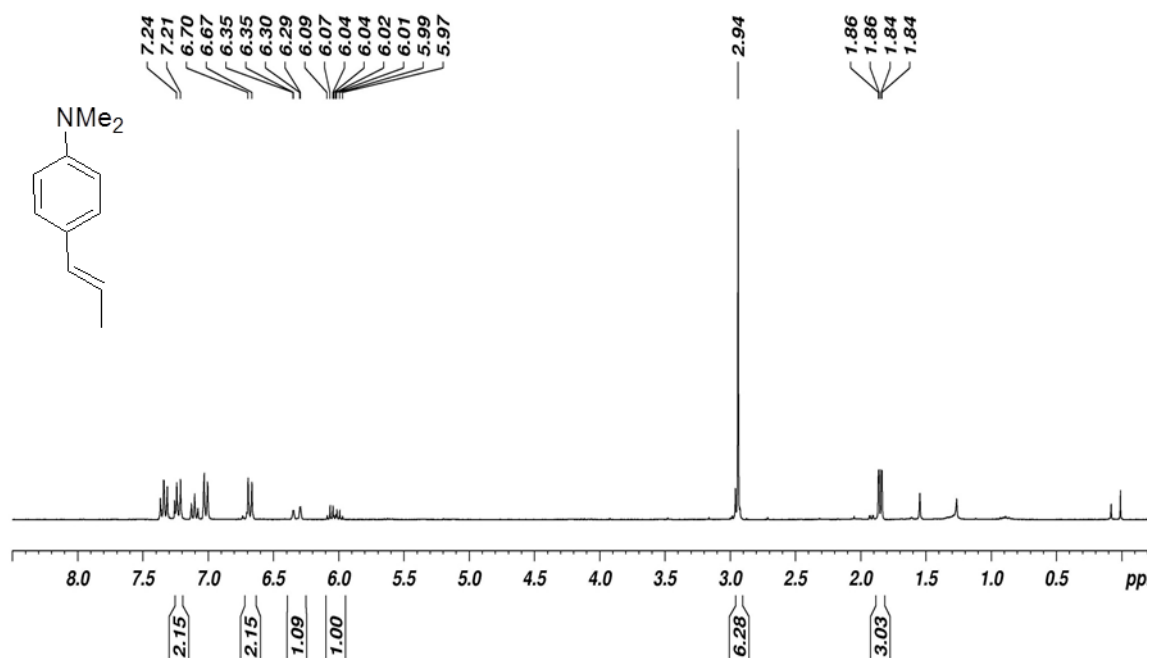
HSQC NMR spectrum of (*E*)-2-Propenyl-biphenyl (**3j**)



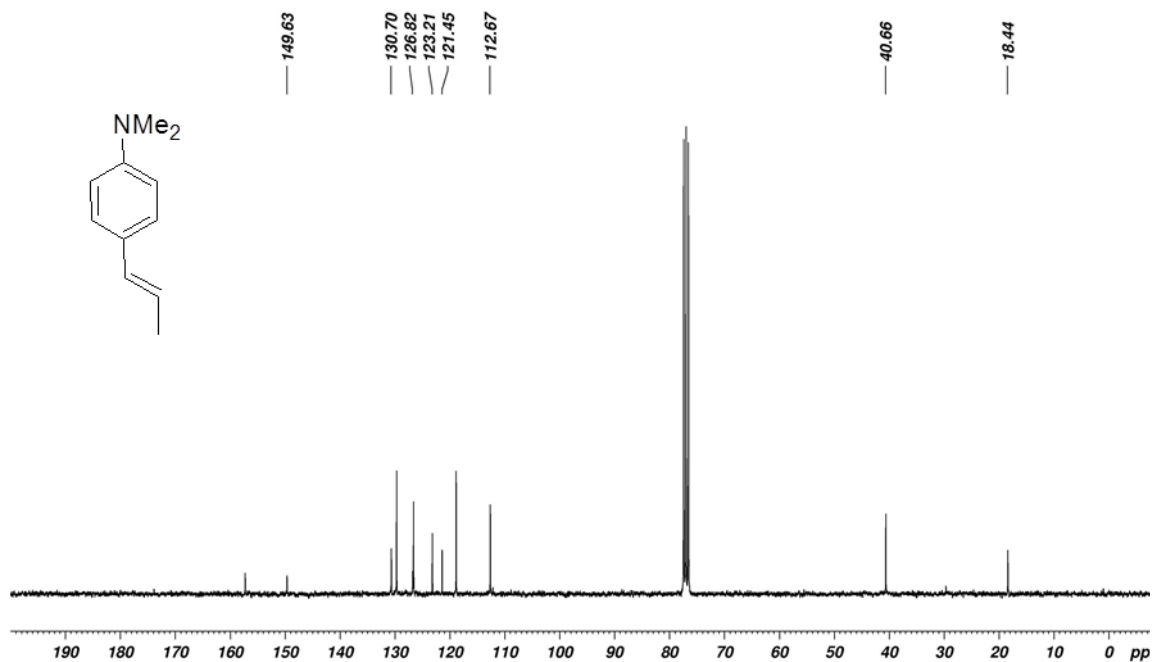
HMBC NMR spectrum of (*E*)-2-Propenyl-biphenyl (**3j**)



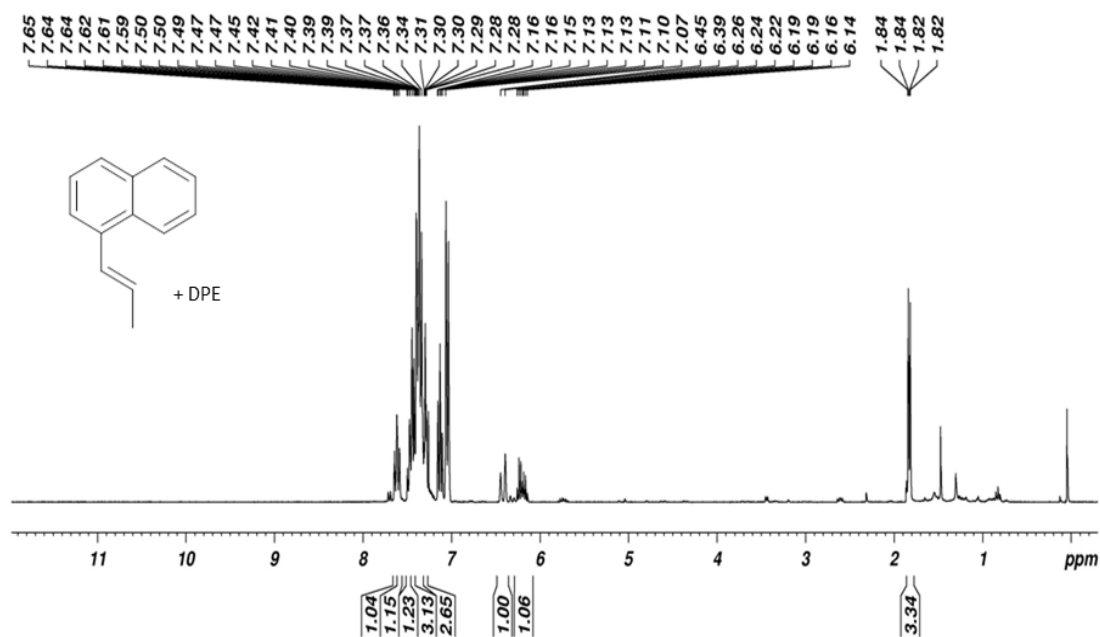
^1H NMR spectrum of (*E*)-Dimethyl-(4-propenyl-phenyl)-amine (**3k**)



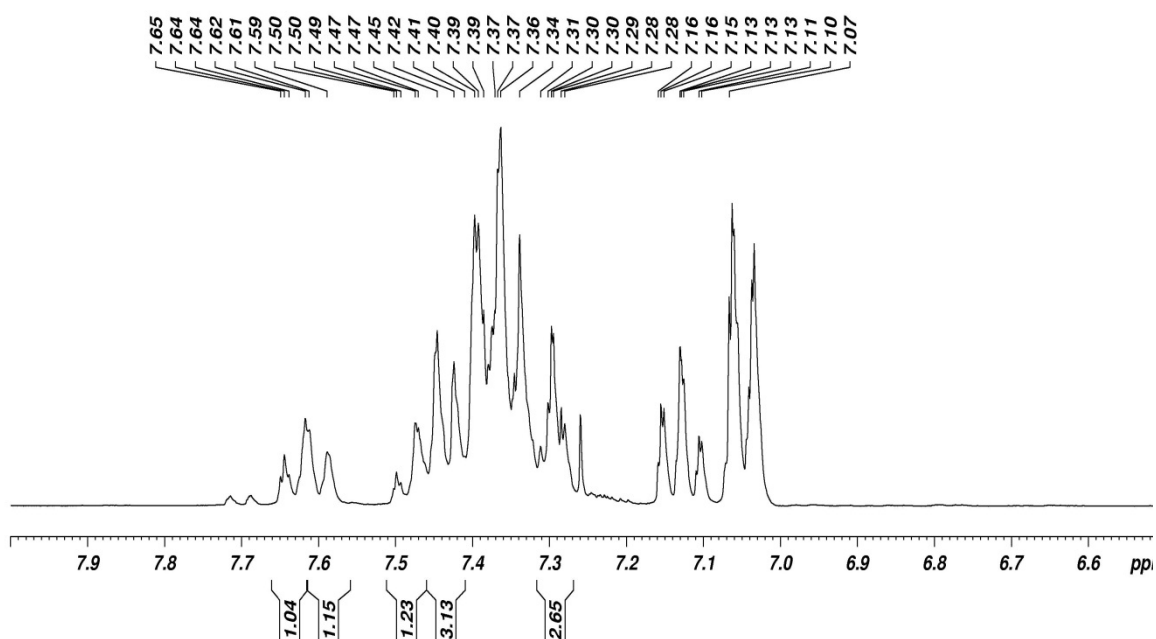
^{13}C NMR spectrum of (*E*)-Dimethyl-(4-propenyl-phenyl)-amine (**3k**)



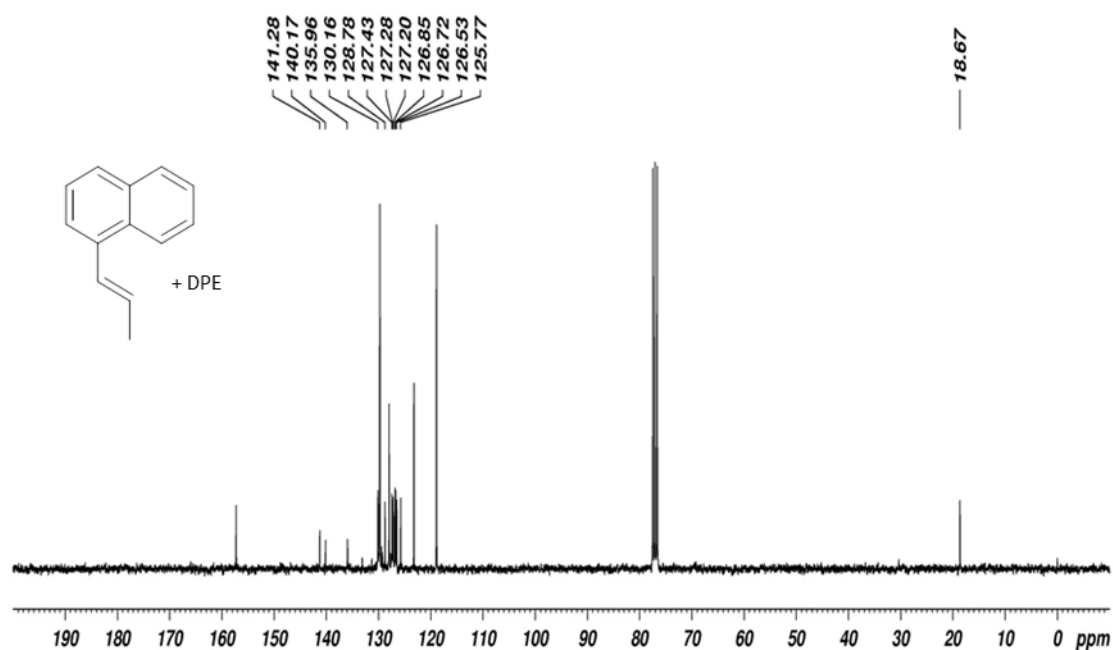
^1H NMR spectrum of (*E*)-1-Propenyl-naphthalene (**3I**)



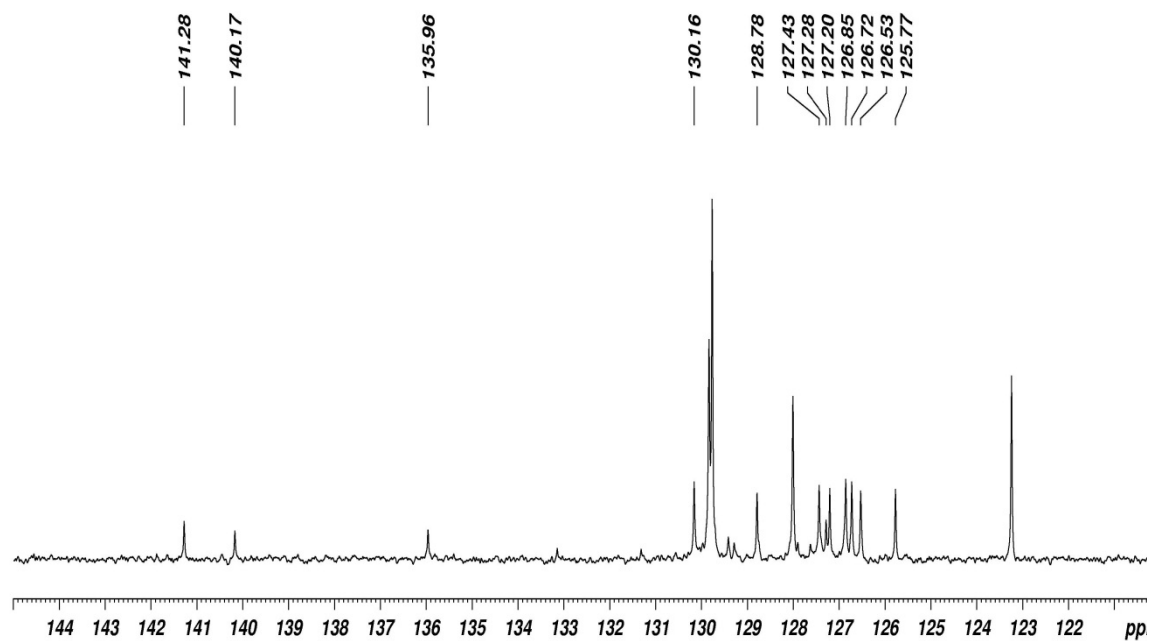
Zoom of ^1H NMR spectrum between 6.5 and 8.0 ppm of (*E*)-1-Propenyl-naphthalene (**3I**)



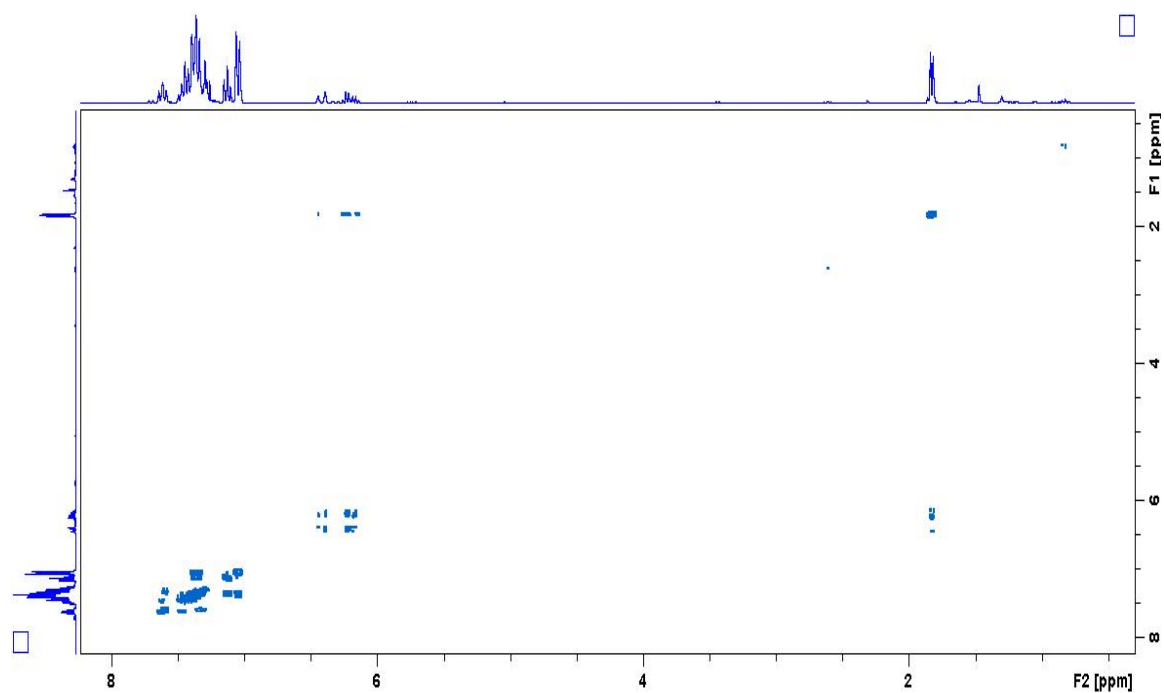
^{13}C NMR spectrum of (*E*)-1-Propenyl-naphthalene (**3I**)



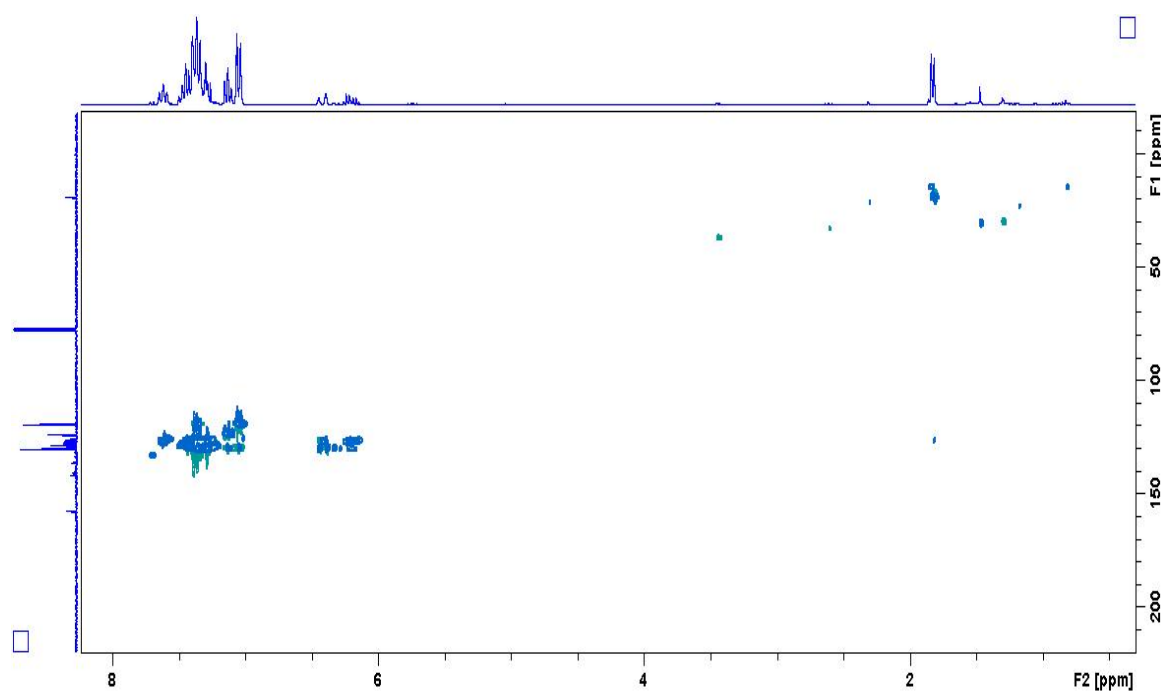
Zoom of ^{13}C NMR spectrum between 120.0 and 145.0 ppm of (*E*)-1-Propenyl-naphthalene (**3I**)



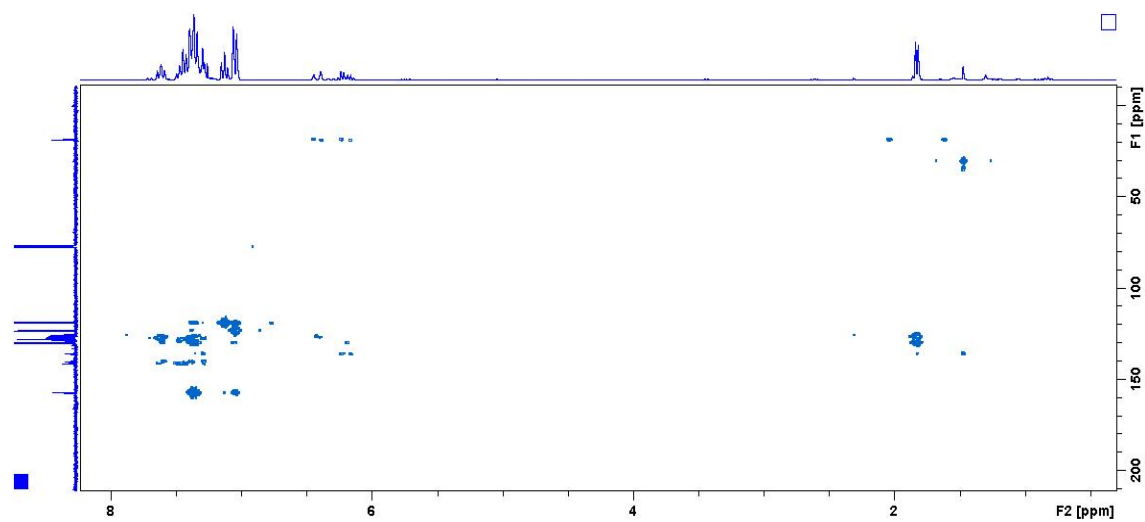
COSY NMR spectrum of (*E*)-1-Propenyl-naphthalene (**3I**)



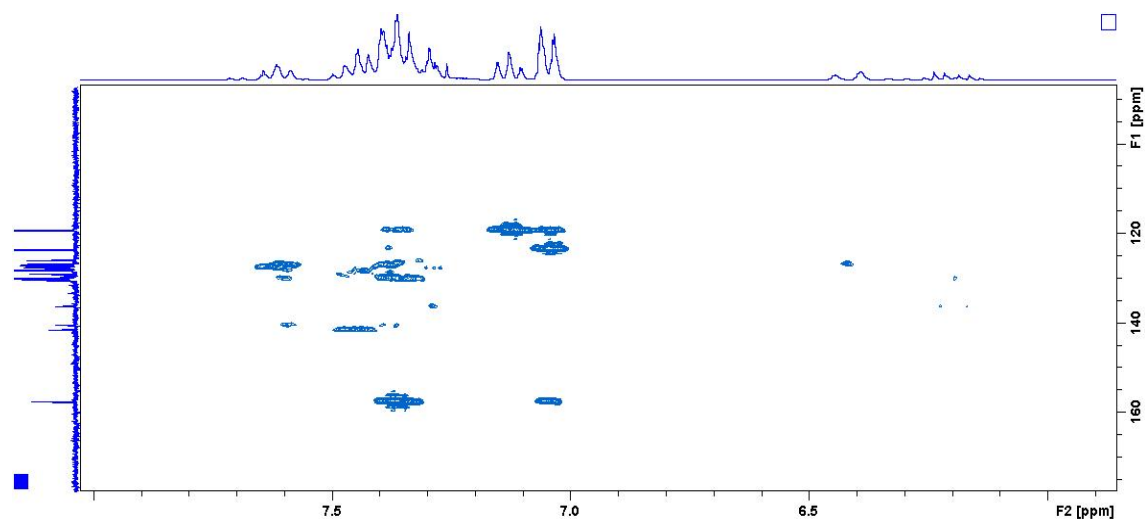
HSQC NMR spectrum of (*E*)-1-Propenyl-naphthalene (**3I**)



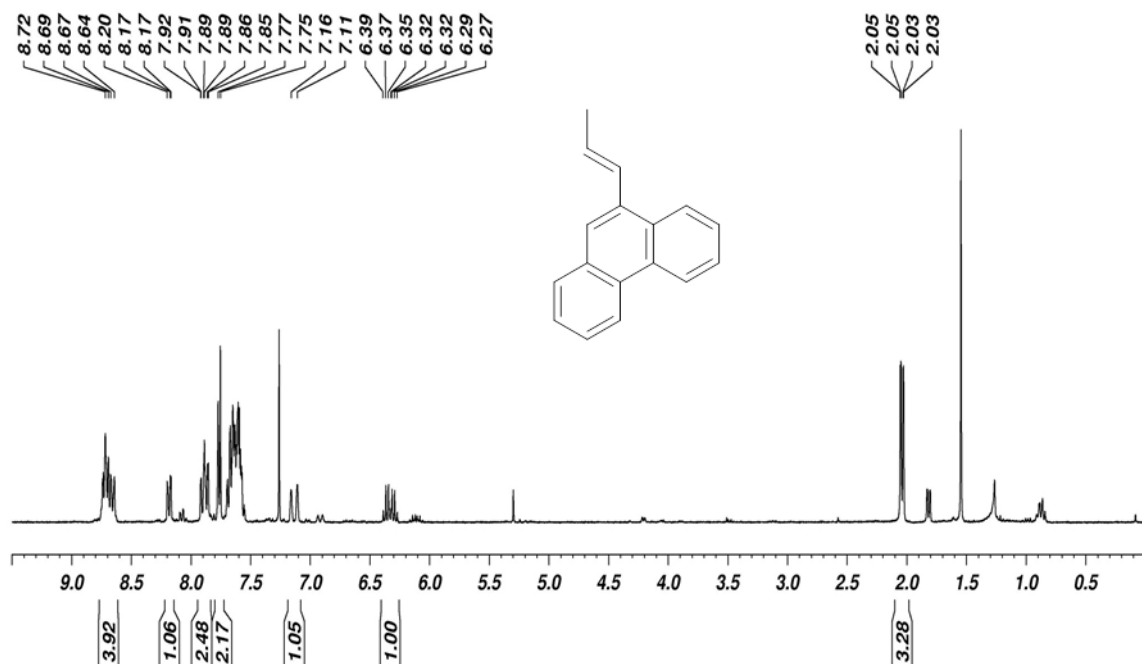
HMBC NMR spectrum of (*E*)-1-Propenyl-naphthalene (**3l**)



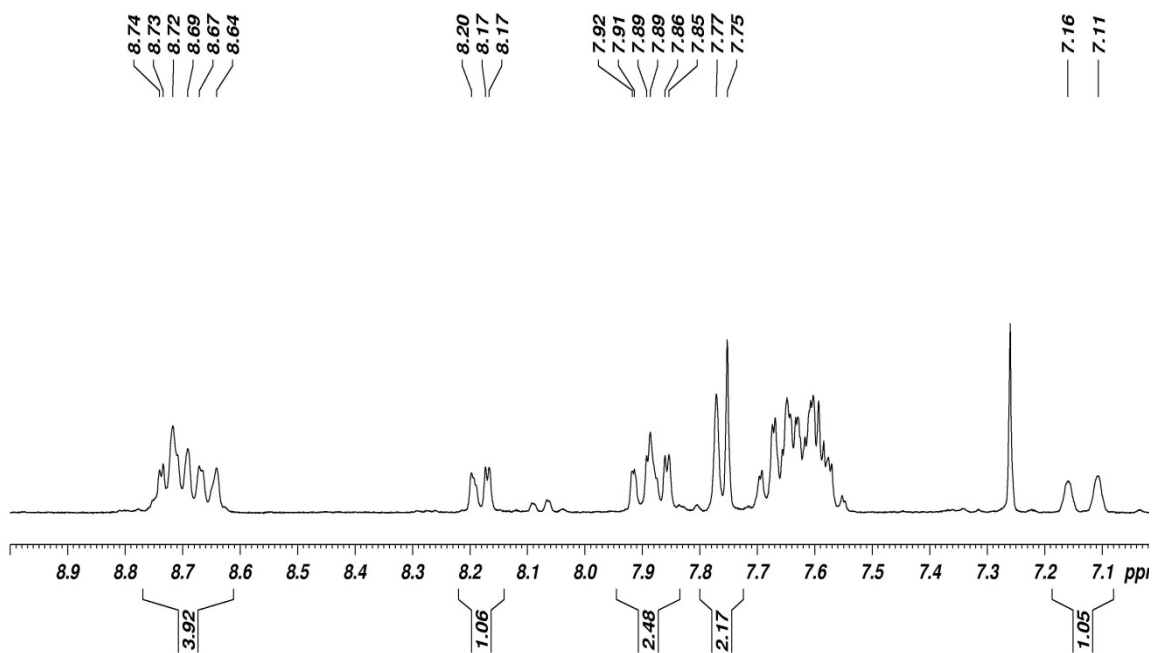
Zoom of HMBC NMR spectrum of (*E*)-1-Propenyl-naphthalene (**3l**)



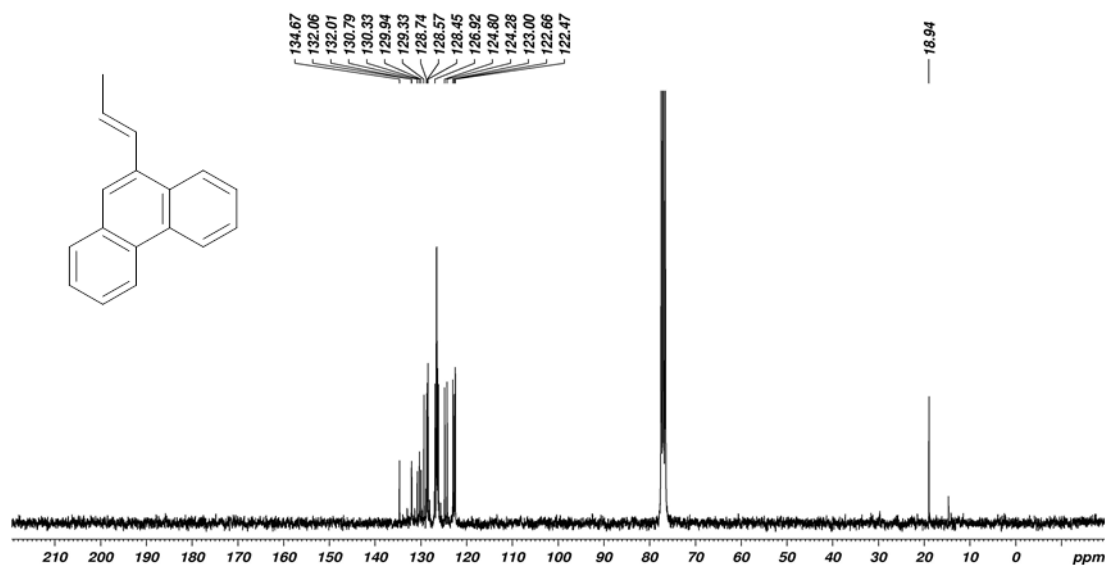
^1H NMR spectrum of (*E*)-9-Propenyl-phenanthrene (**3m**)



Zoom of ^1H NMR spectrum between 7.0 and 9.0 ppm of (*E*)-9-Propenyl-phenanthrene (**3m**)



^1H NMR spectrum of (*E*)-9-Propenyl-phenanthrene (**3m**)



Zoom of ^{13}C NMR spectrum between 120.0 and 140.0 ppm of (*E*)-9-Propenyl-phenanthrene (**3m**)

