

Supporting Information

Synthesis of Densely Substituted Conjugated Dienes by Transition-metal-free Reductive Coupling of Allenylboronic Acids and Tosylhydrazones

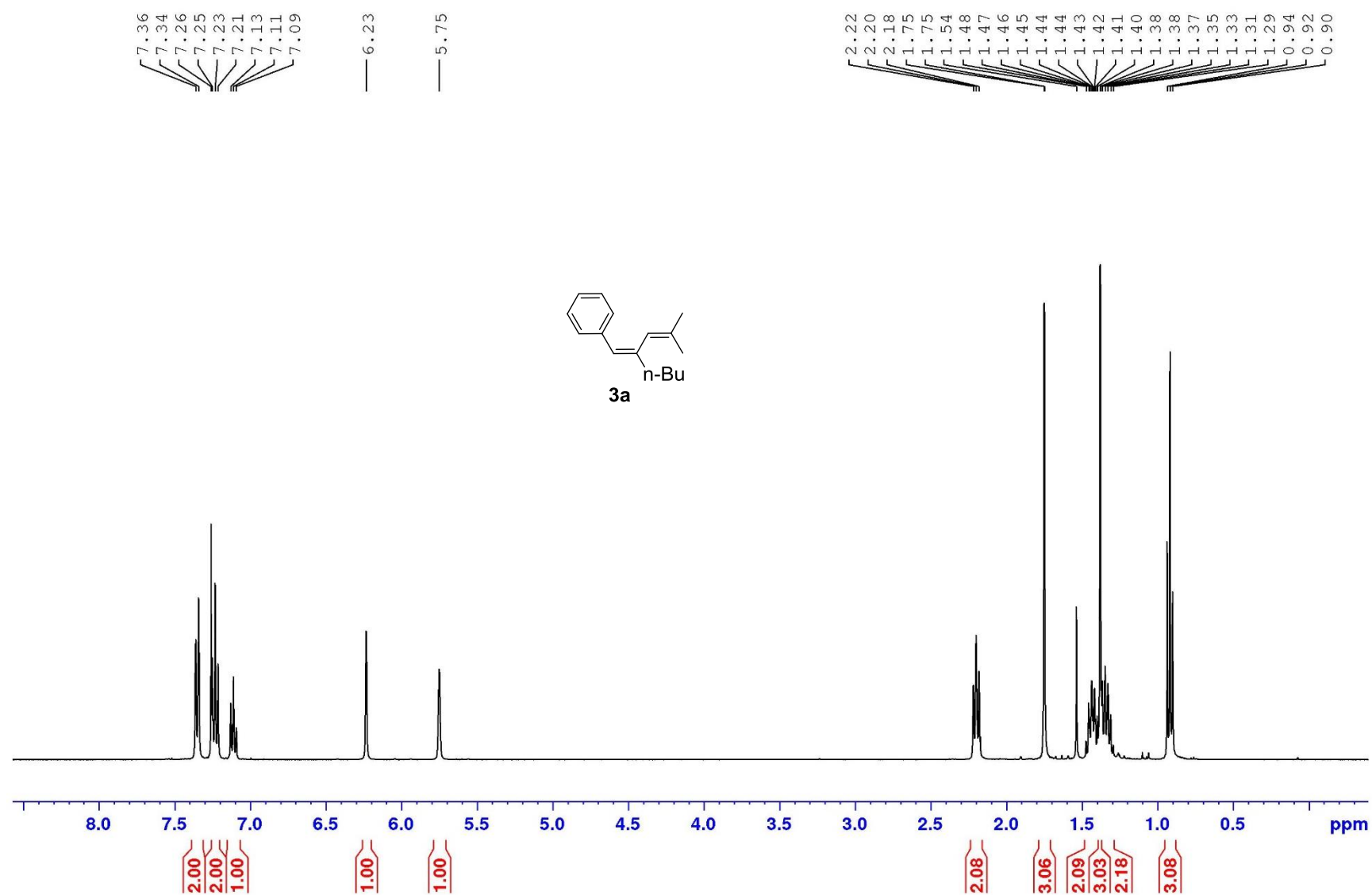
Dong Wang, Martin J. M. de Wit and Kálmán J. Szabó*

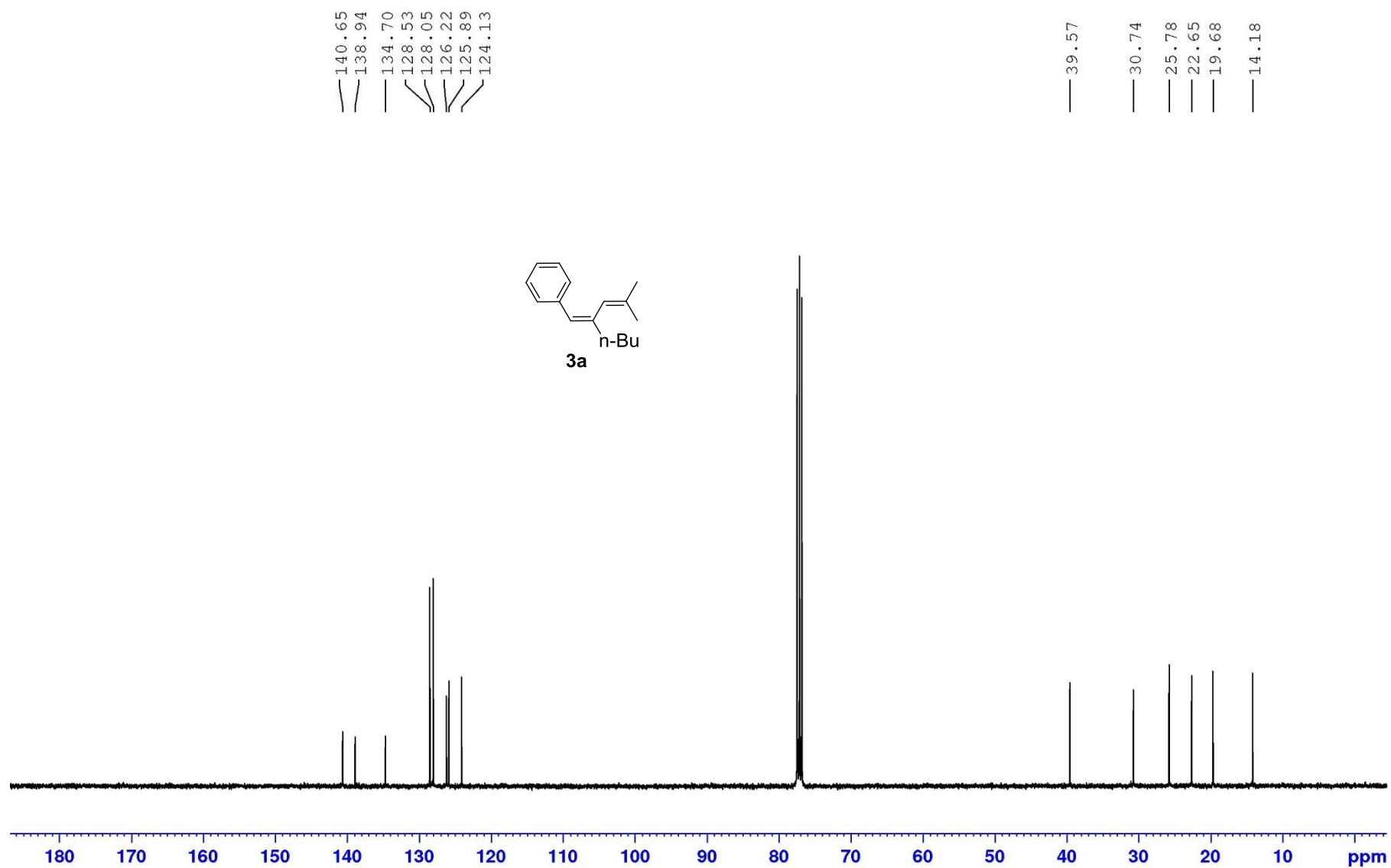
*E-mail: kalman.j.szabo@su.se. Fax: +46-8-15 49 08

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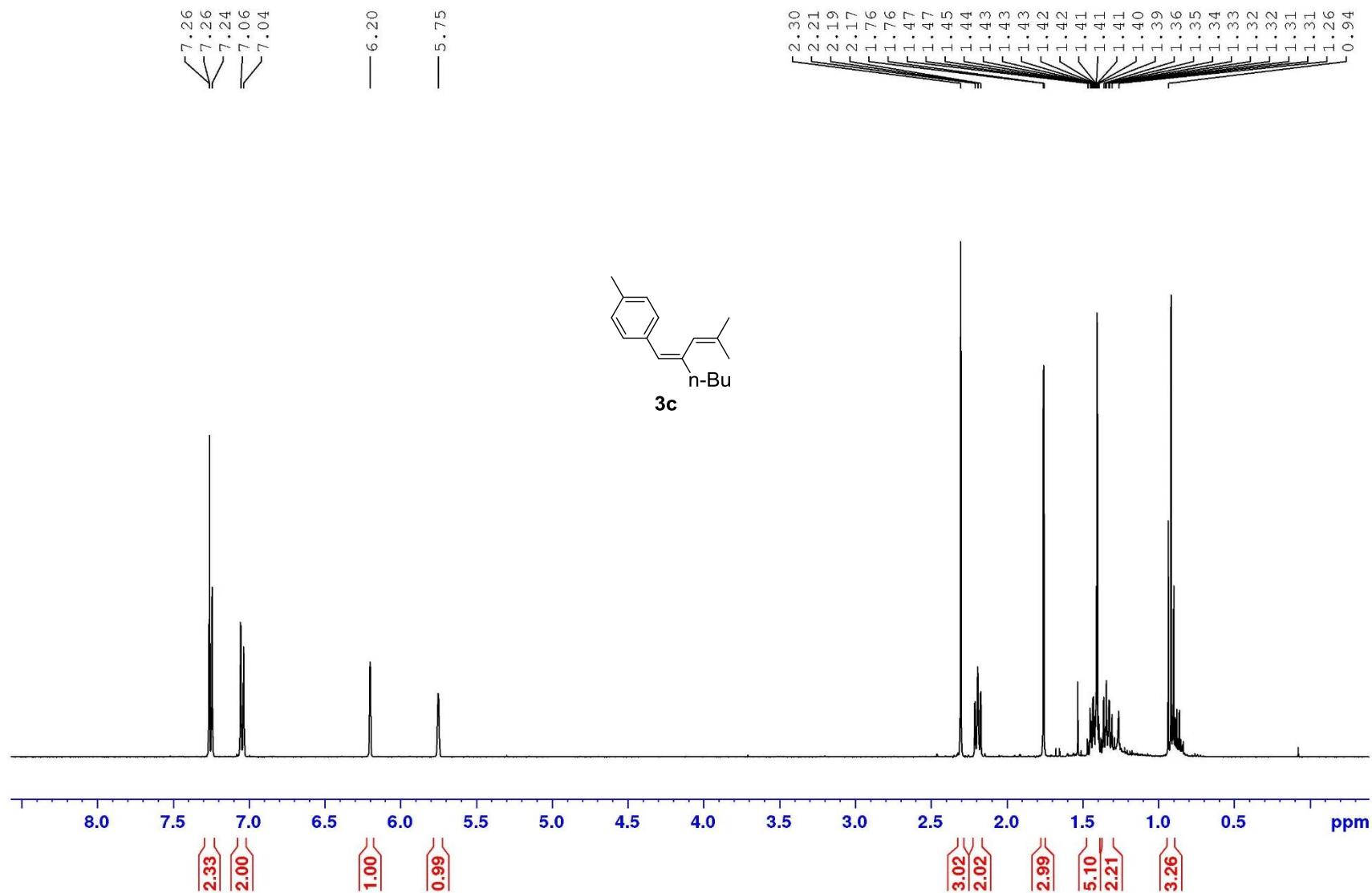
¹ H and ¹³ C NMR Spectra for the products	S2
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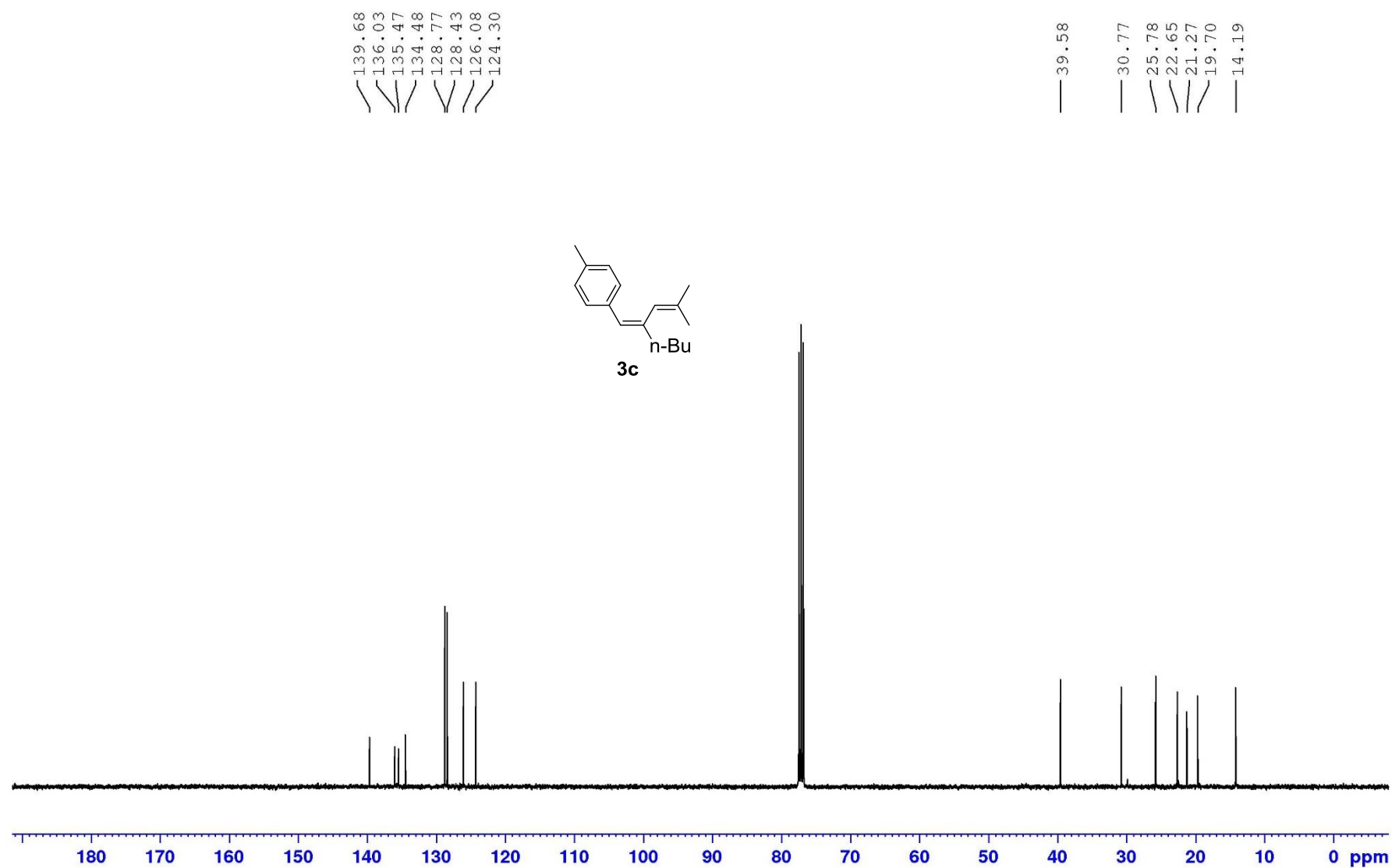
(Z)-(2-(2-methylprop-1-en-1-yl)hex-1-en-1-yl)benzene (**3a**)



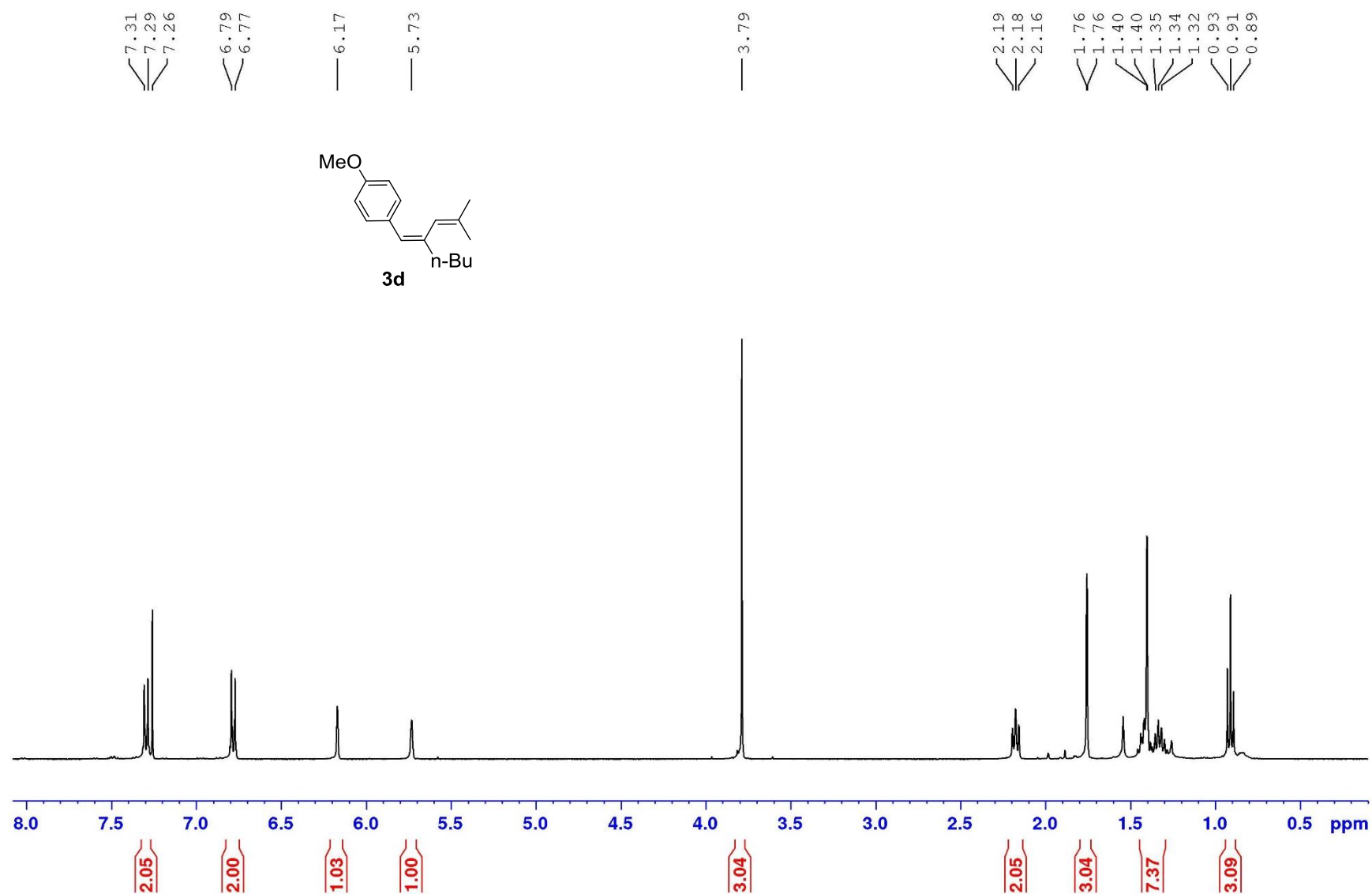


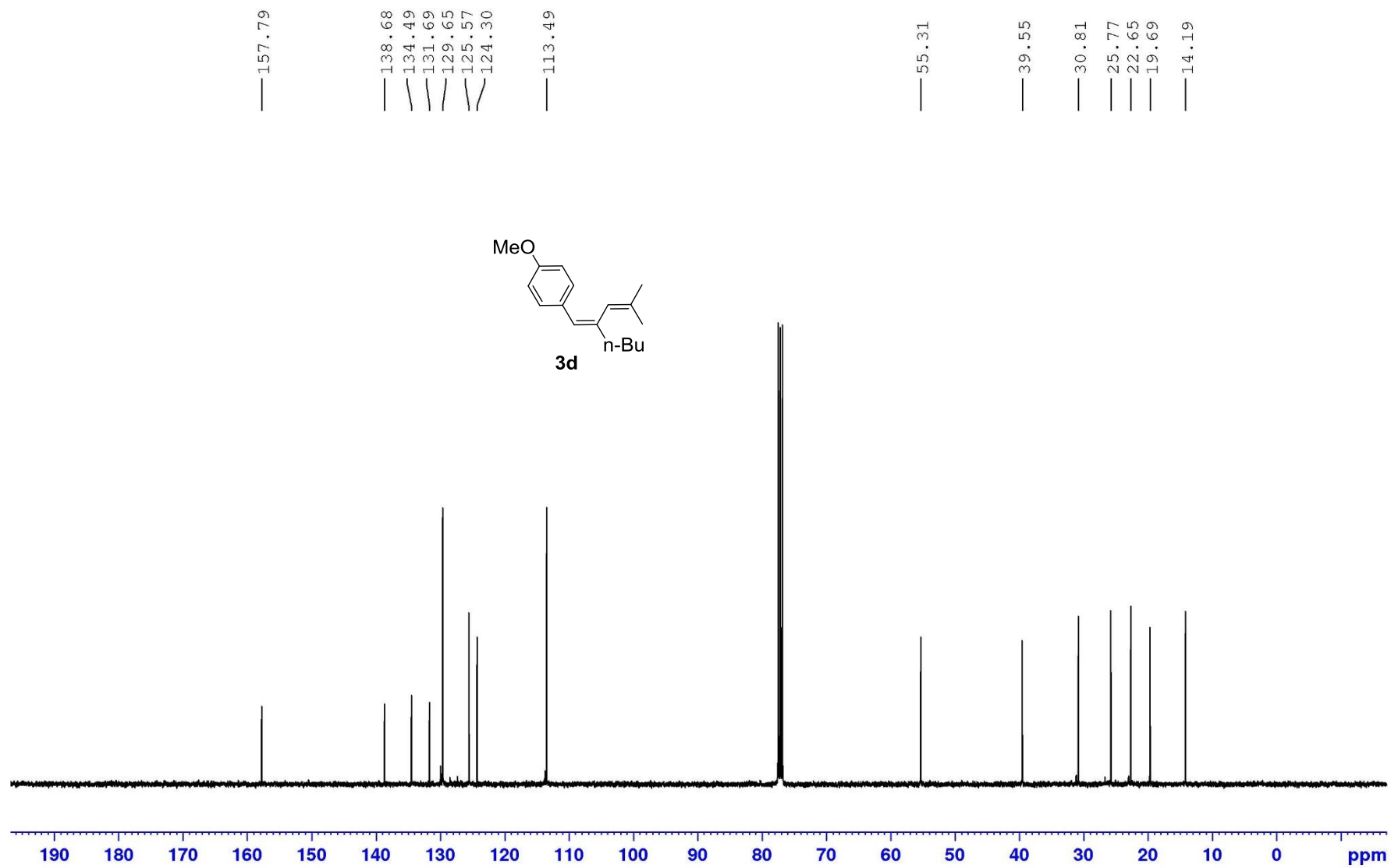
(Z)-1-methyl-4-(2-(2-methylprop-1-en-1-yl)hex-1-en-1-yl)benzene (**3c**)



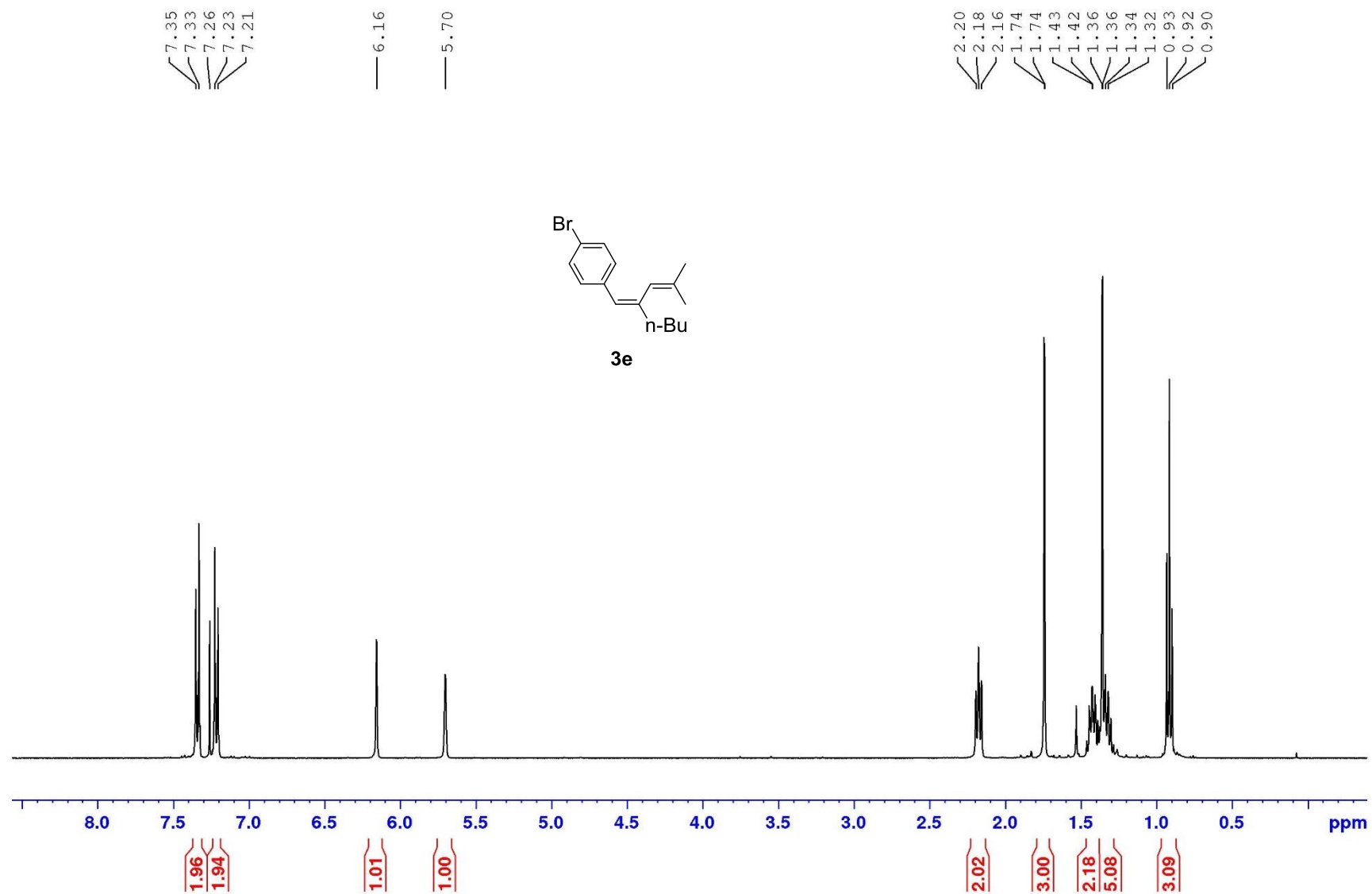


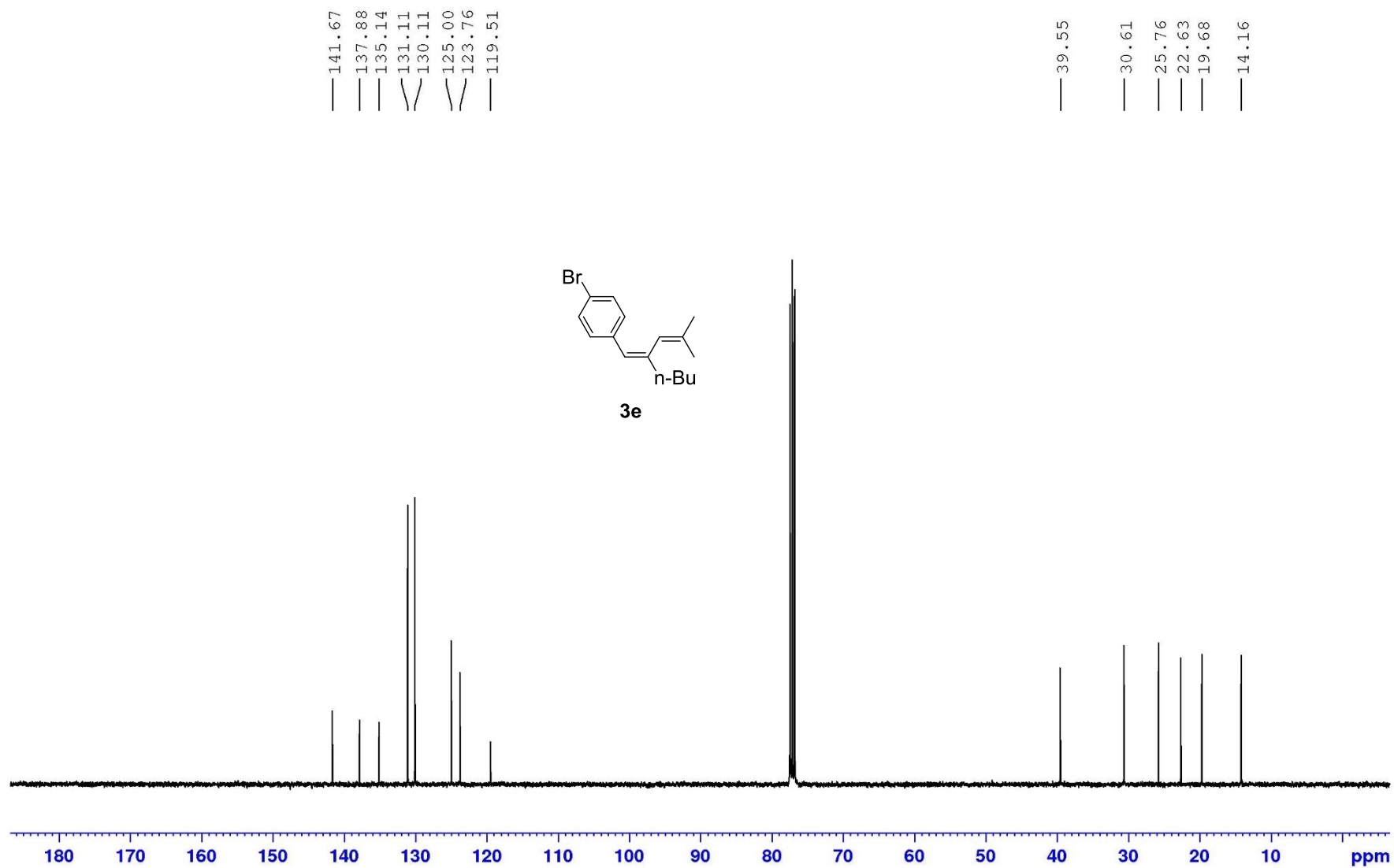
(Z)-1-methoxy-4-(2-(2-methylprop-1-en-1-yl)hex-1-en-1-yl)benzene (**3d**)



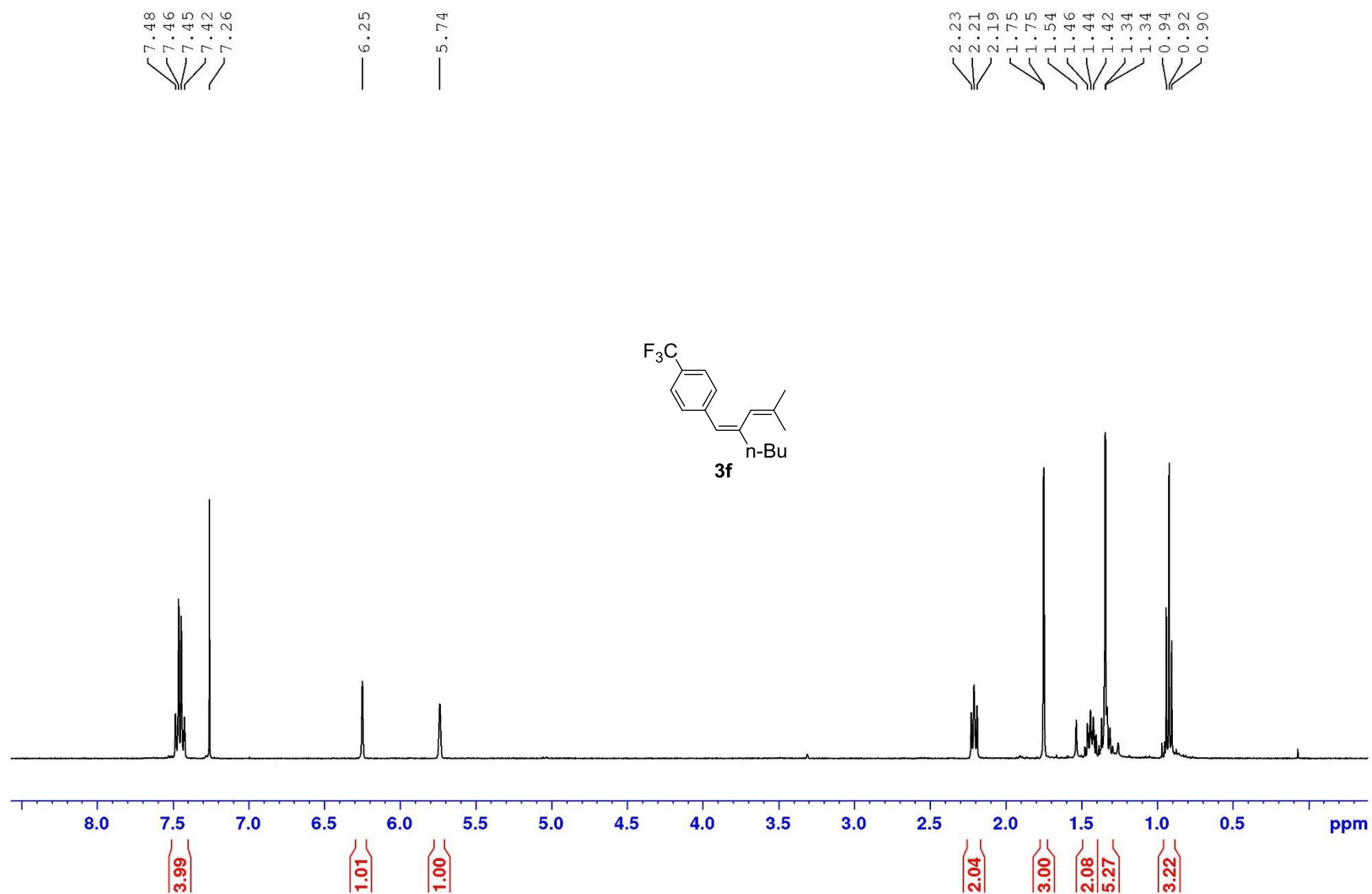


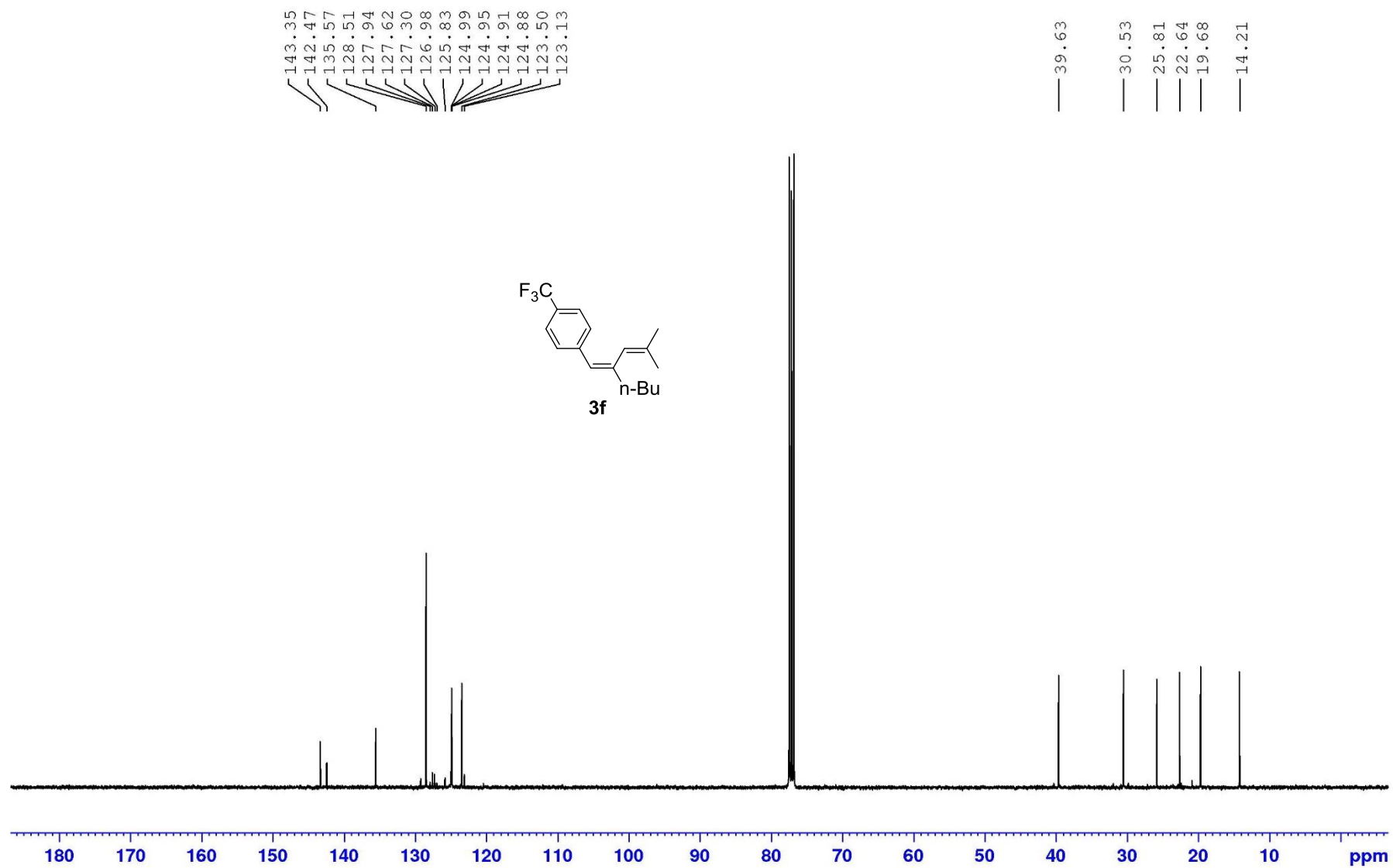
(Z)-1-bromo-4-(2-(2-methylprop-1-en-1-yl)hex-1-en-1-yl)benzene (**3e**)



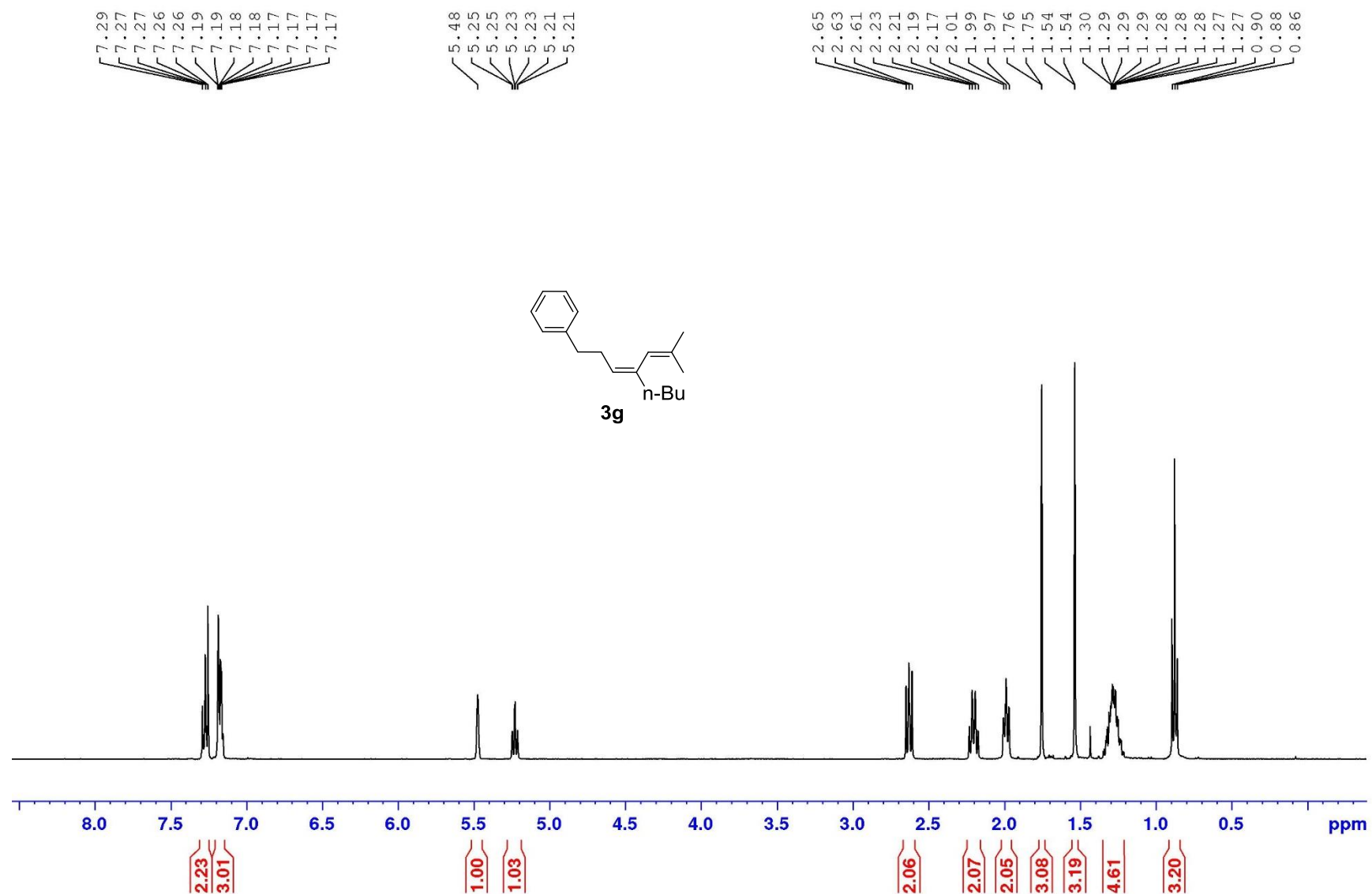


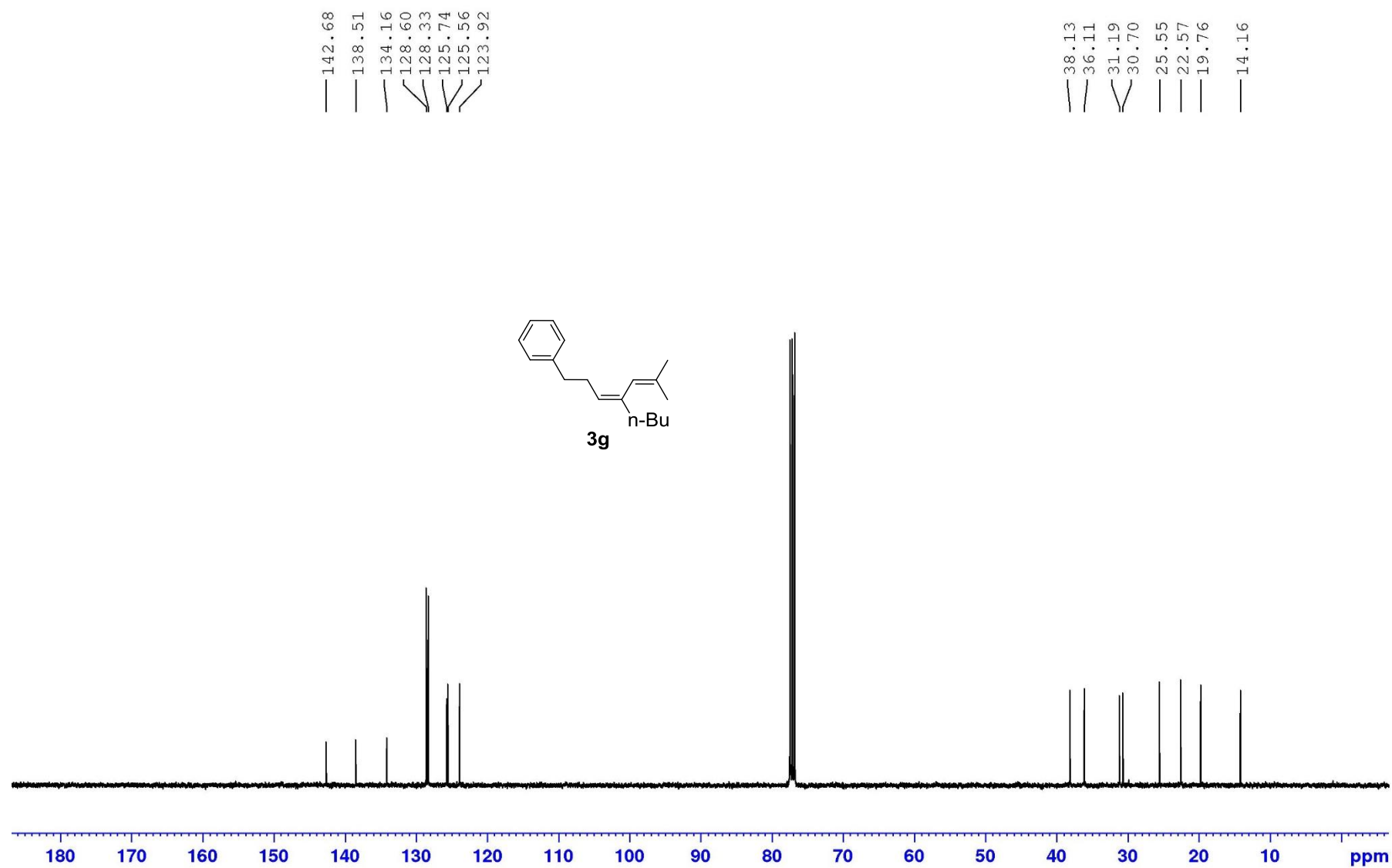
(Z)-1-(2-(2-methylprop-1-en-1-yl)hex-1-en-1-yl)-4-(trifluoromethyl)benzene (**3f**)





(Z)-(4-(2-methylprop-1-en-1-yl)oct-3-en-1-yl)benzene (**3g**)



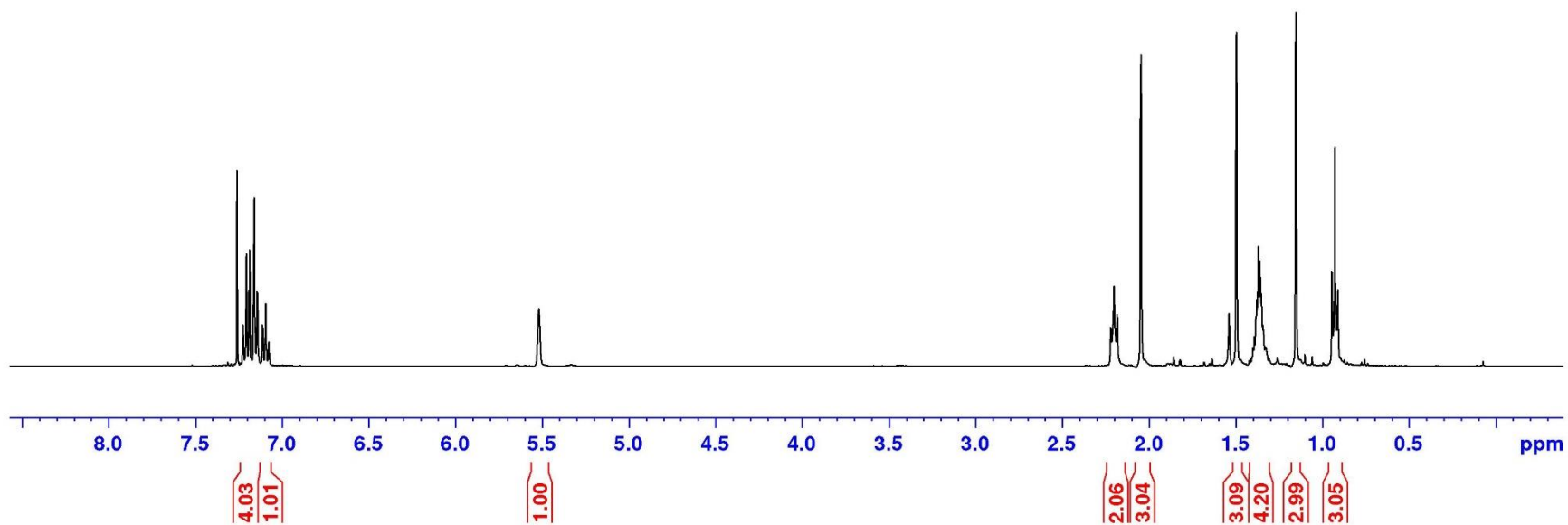
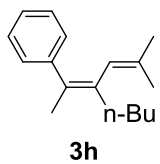


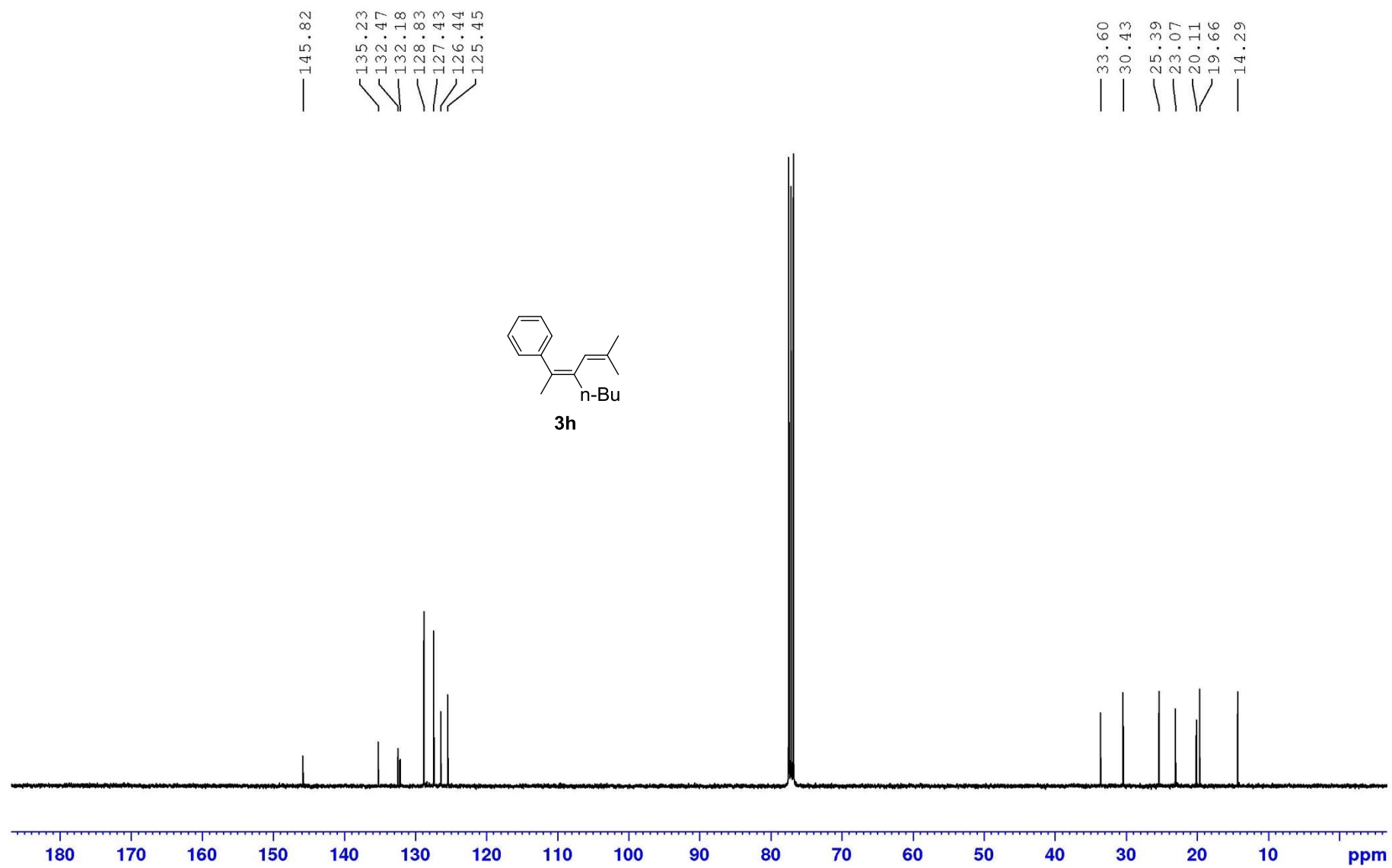
(Z)-(3-(2-methylprop-1-en-1-yl)hept-2-en-2-yl)benzene (**3h**)

7.26
7.23
7.21
7.19
7.19
7.16
7.16
7.14
7.12
7.11
7.10

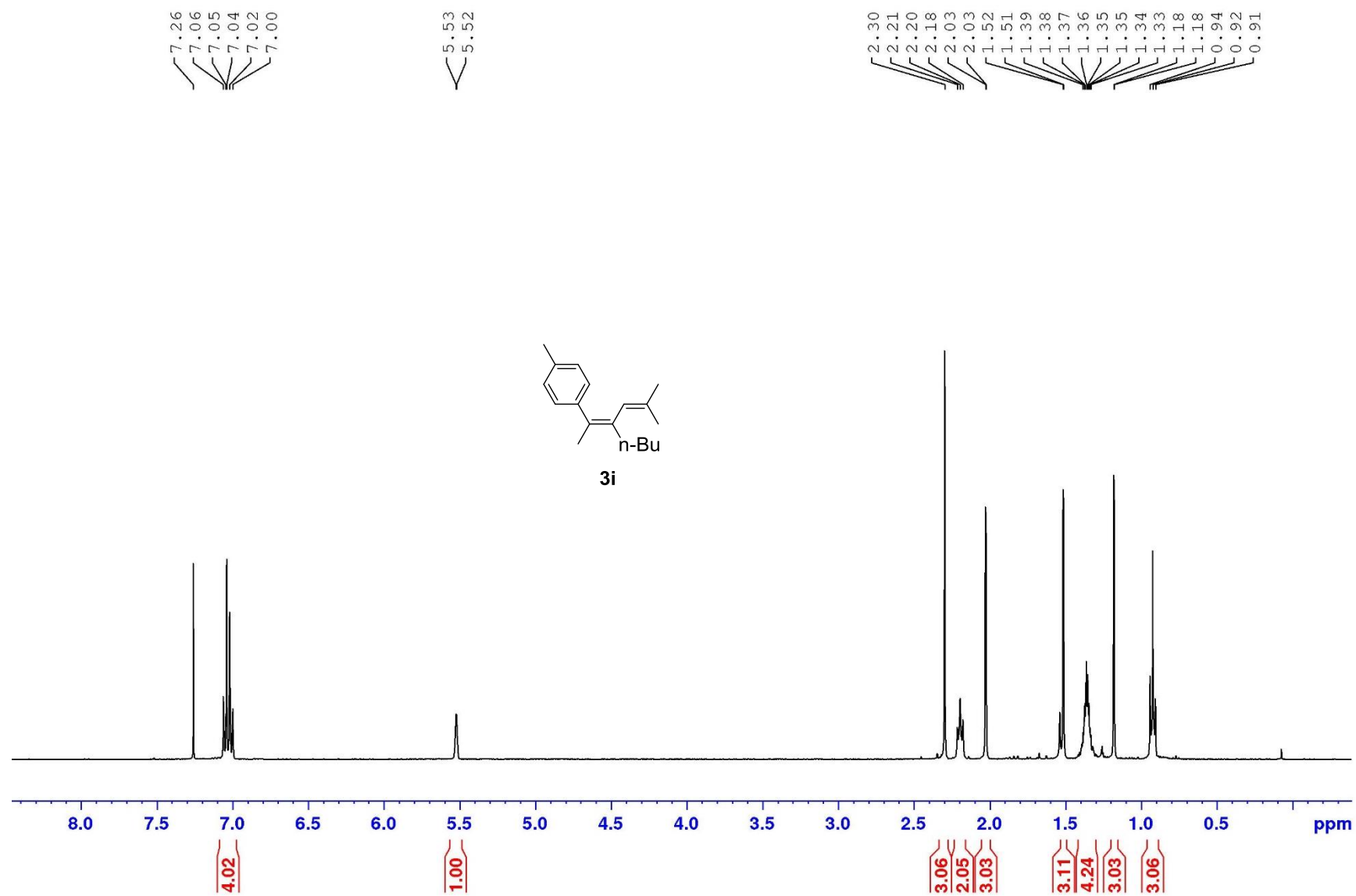
5.52
5.52

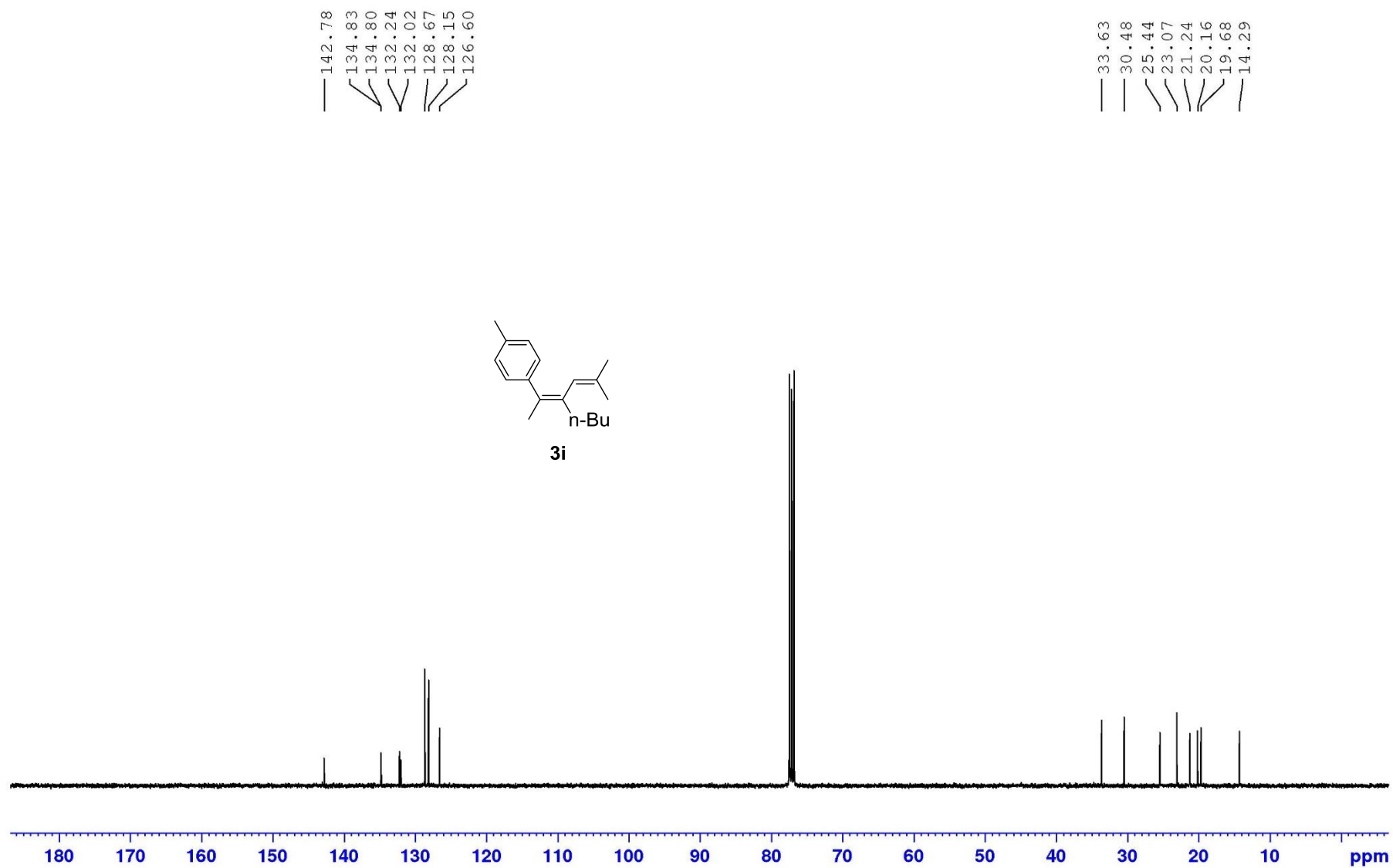
2.22
2.20
2.18
2.05
2.05
1.50
1.49
1.37
1.36
1.35
1.15
1.15
0.95
0.93
0.91



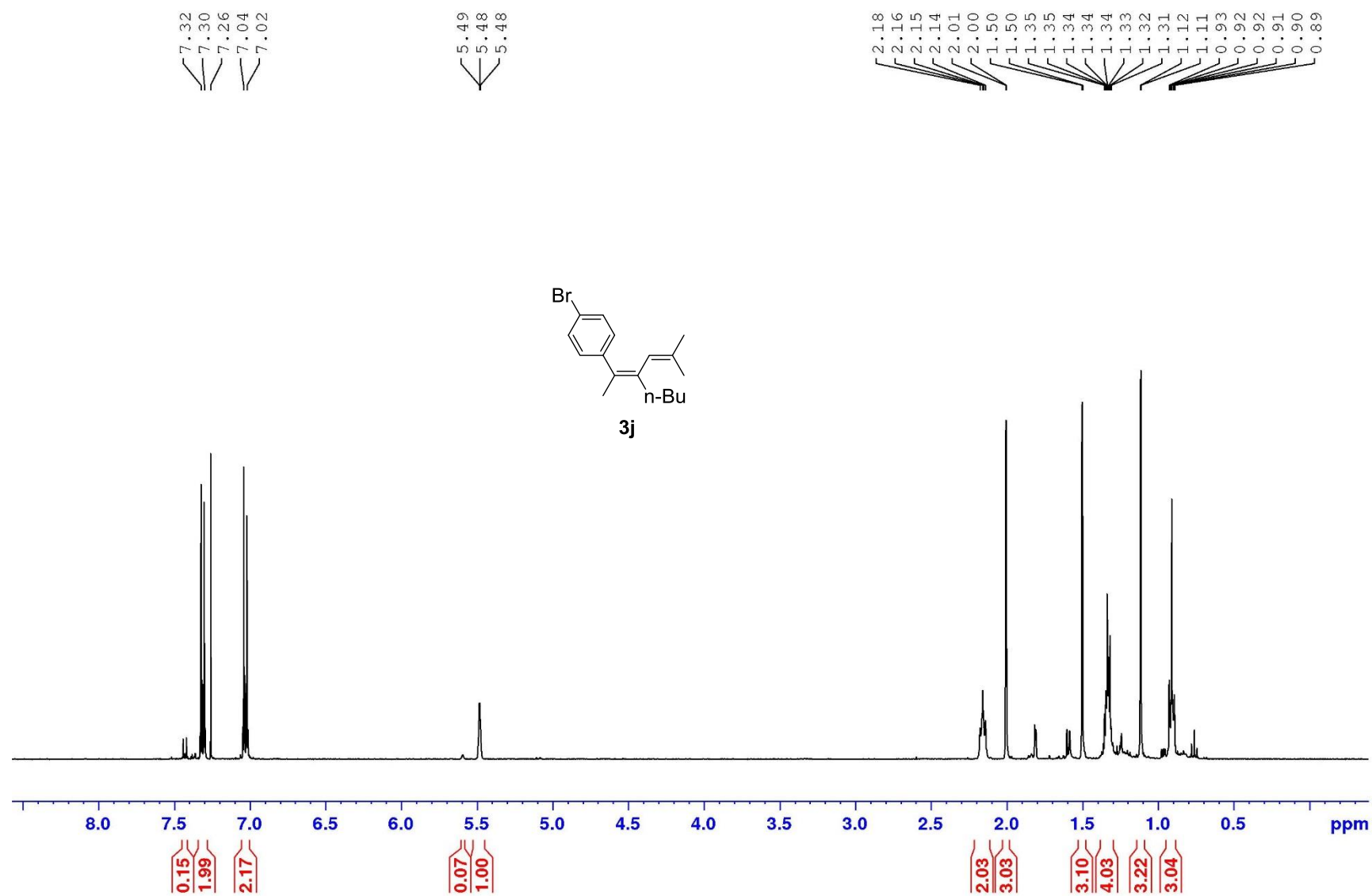


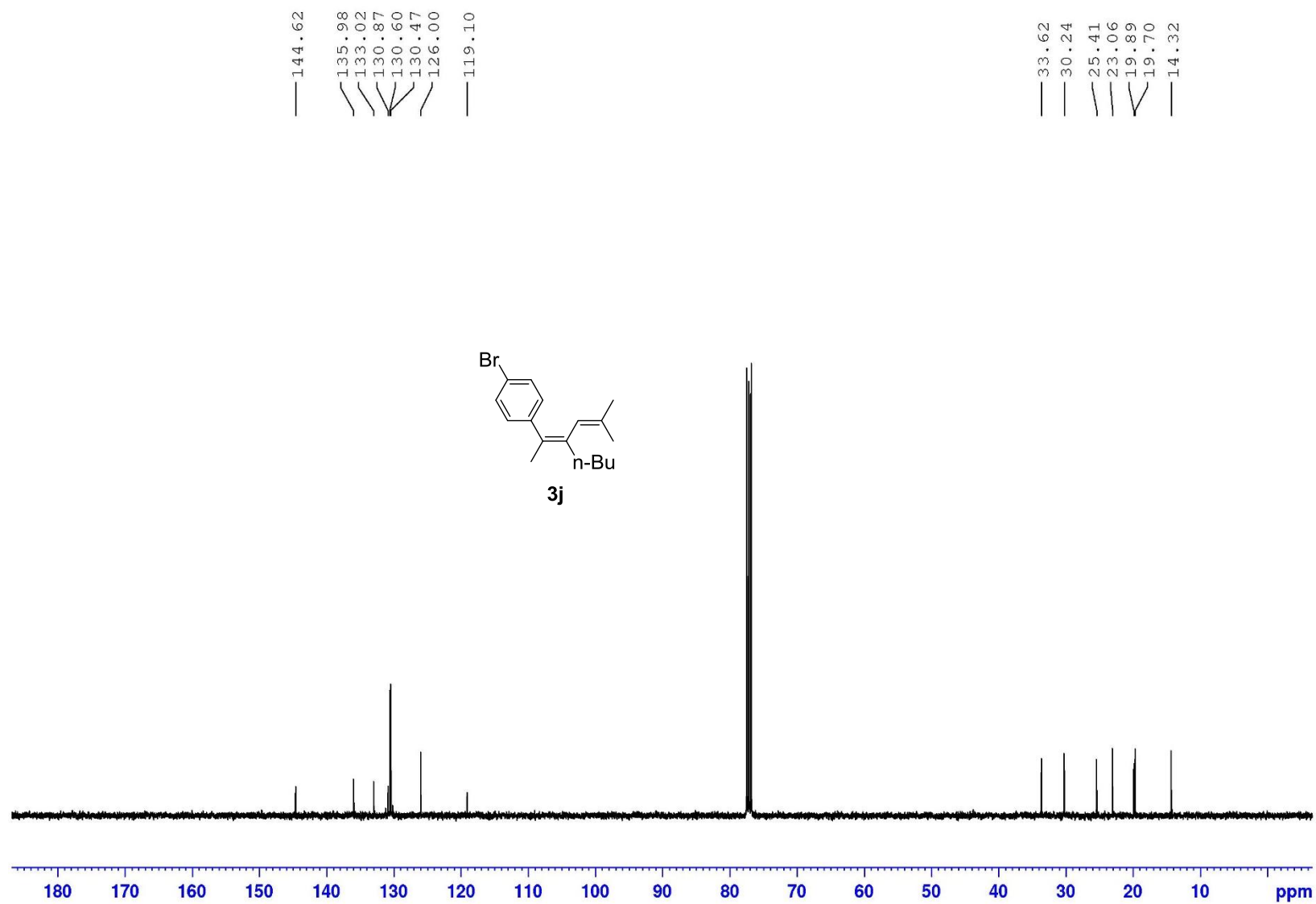
(Z)-1-methyl-4-(3-(2-methylprop-1-en-1-yl)hept-2-en-2-yl)benzene (**3i**)



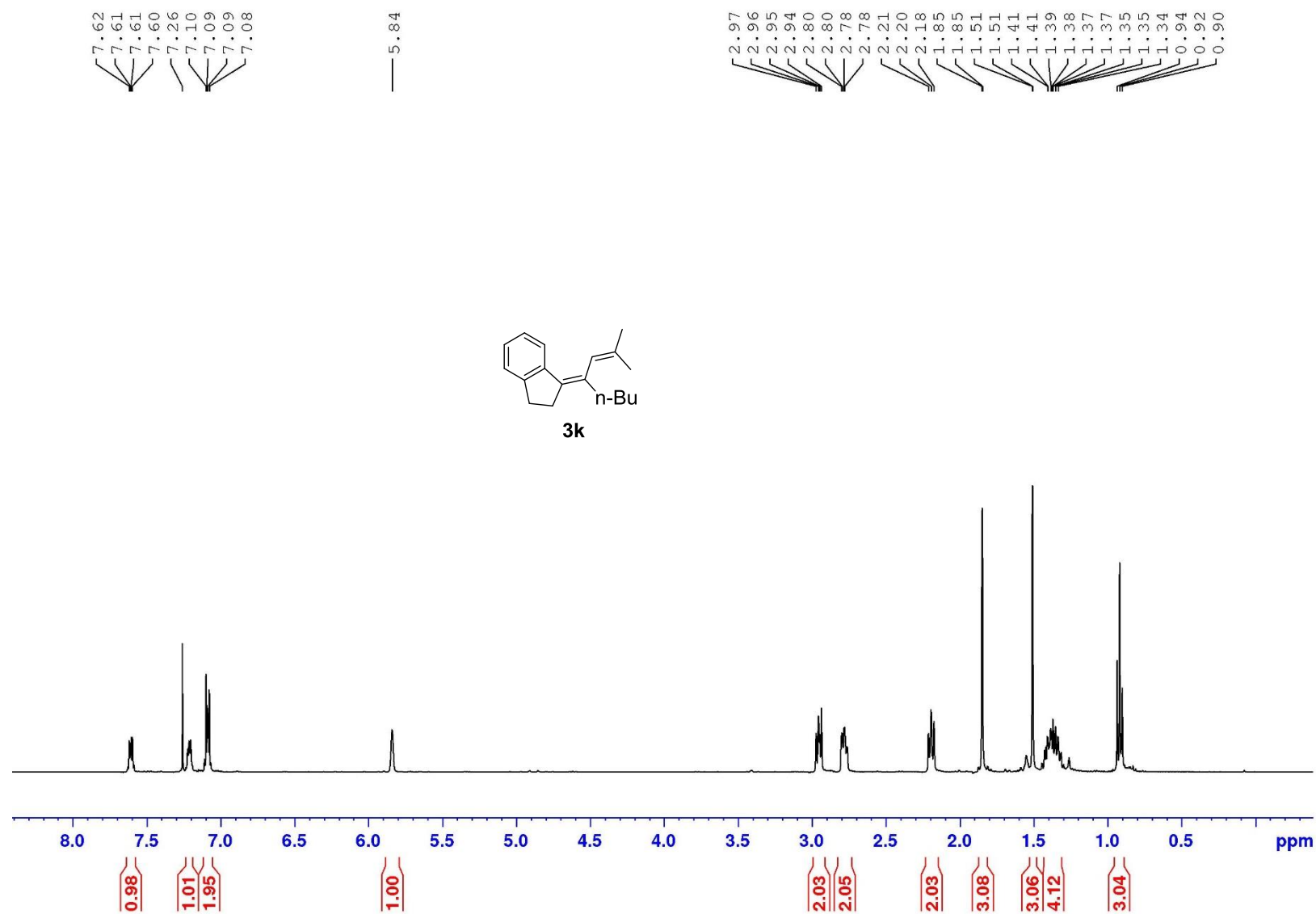


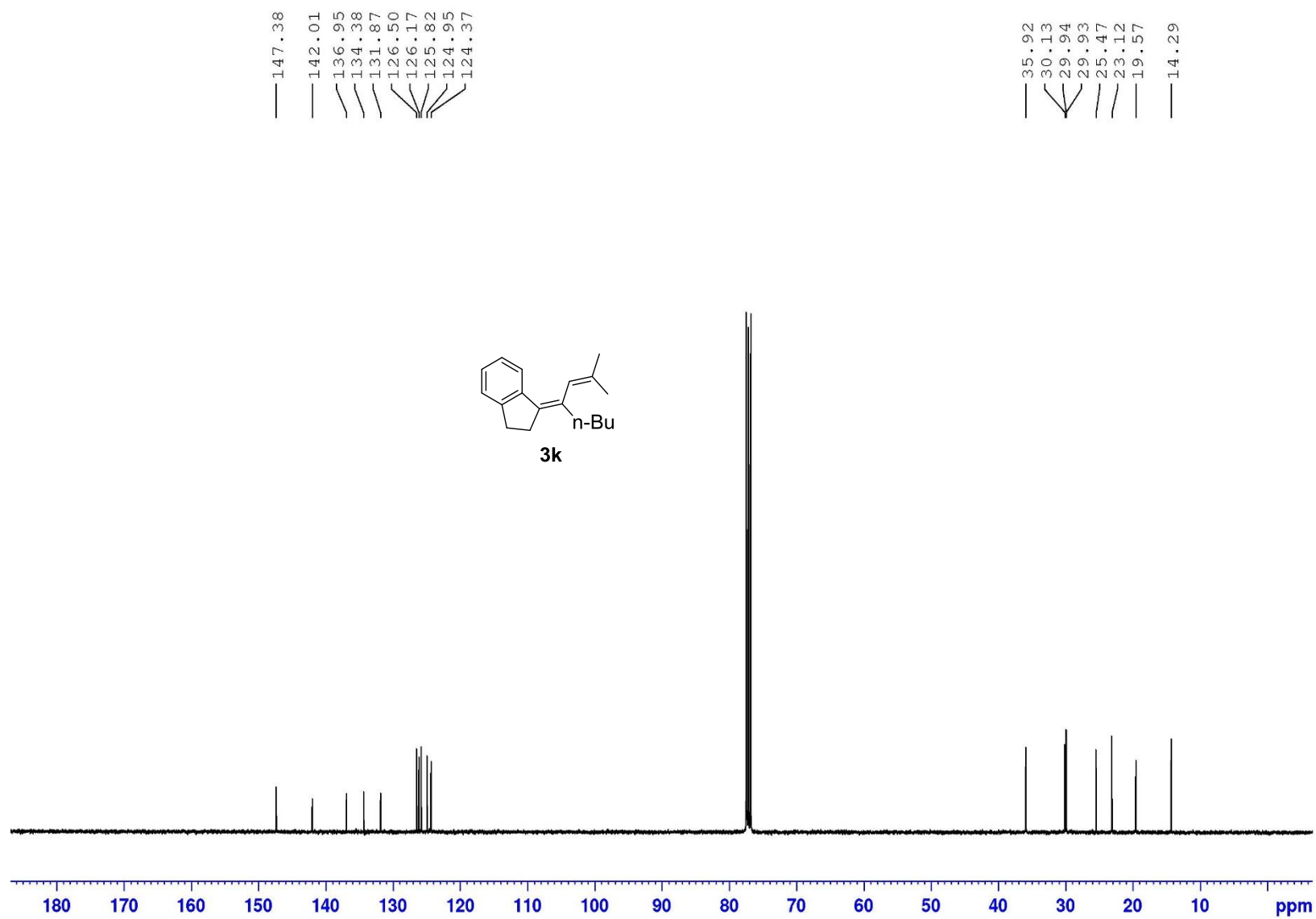
(Z)-1-bromo-4-(3-(2-methylprop-1-en-1-yl)hept-2-en-2-yl)benzene (**3j**)



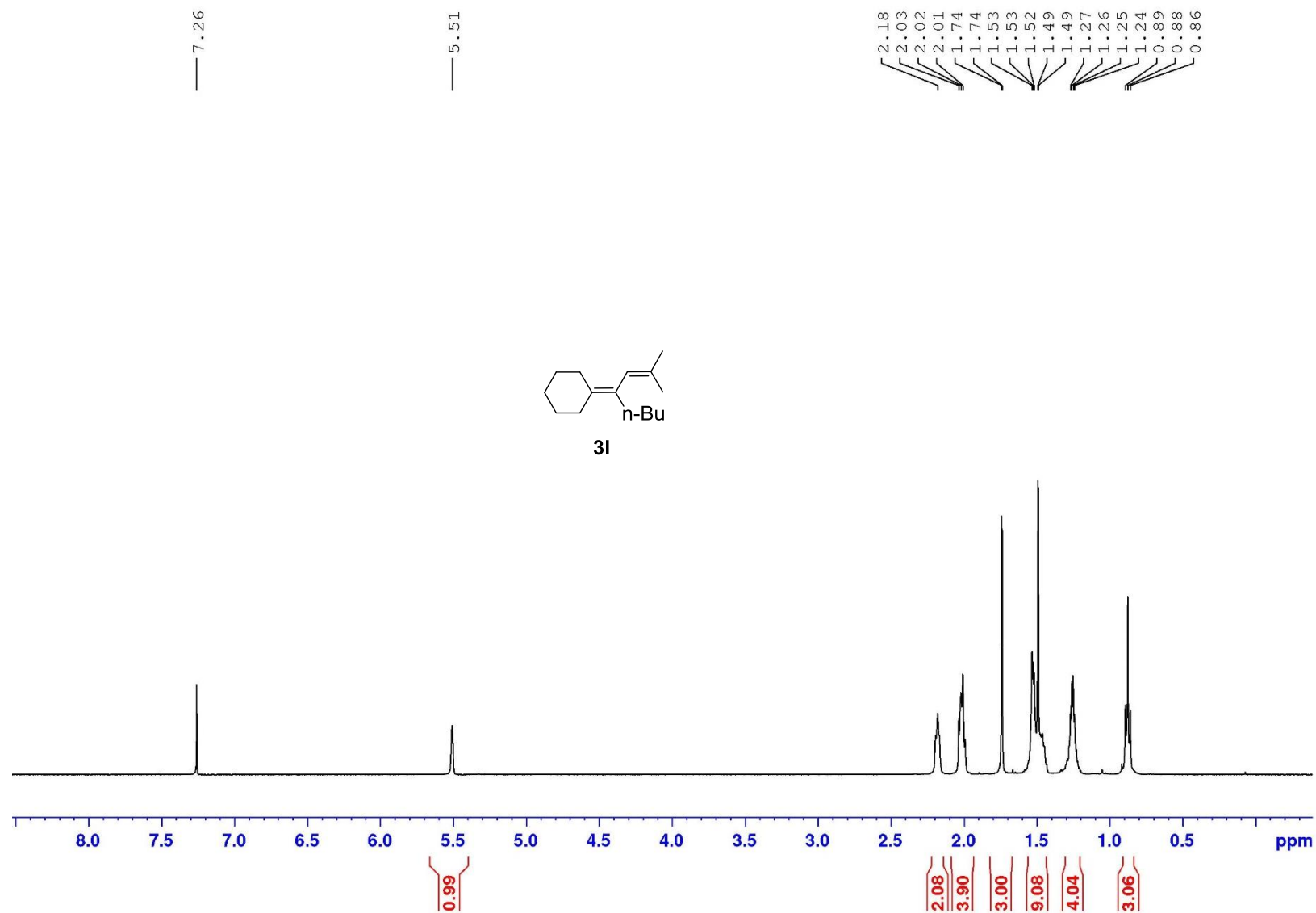


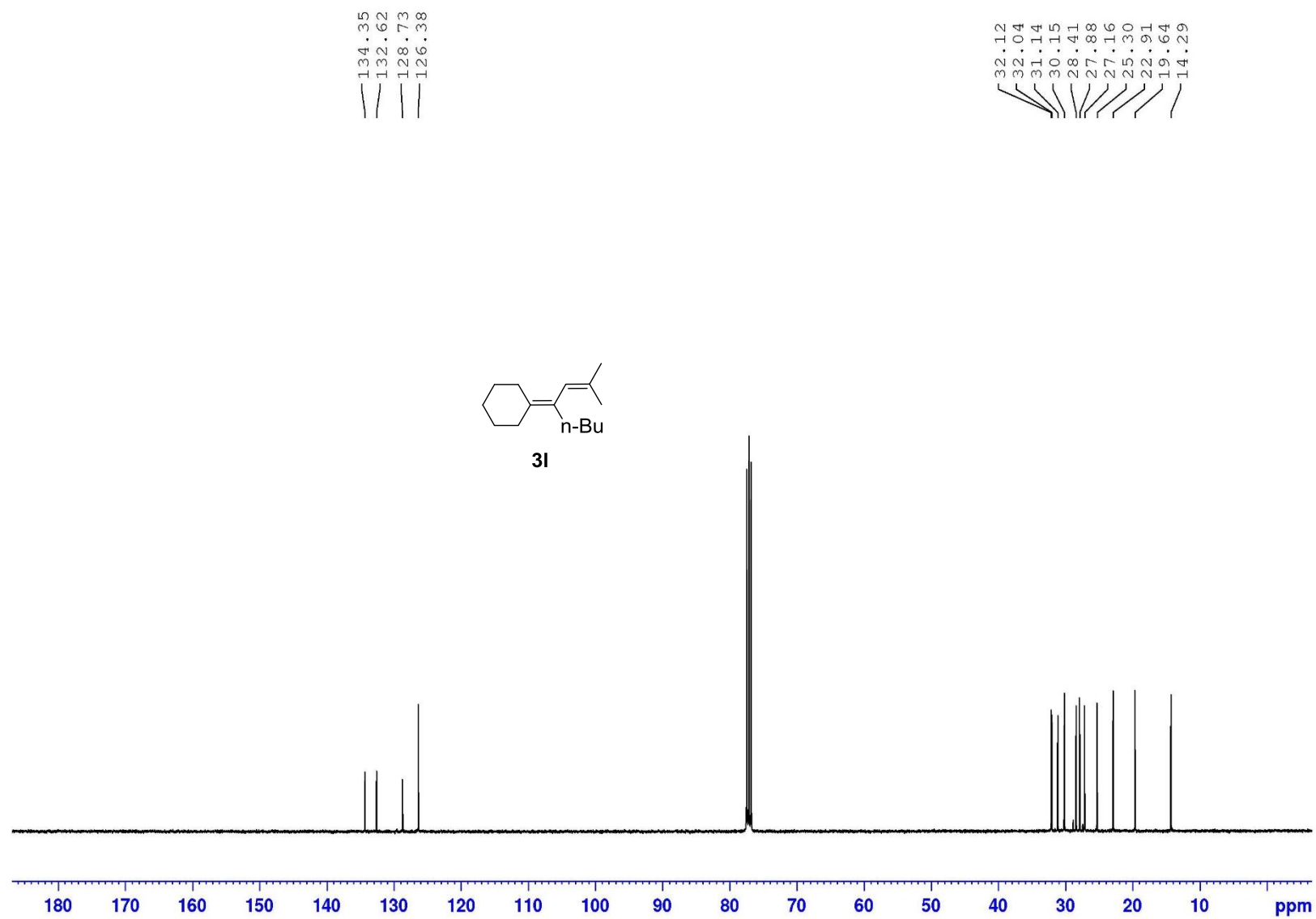
(Z)-1-(2-methyloct-2-en-4-ylidene)-2,3-dihydro-1*H*-indene (**3k**)



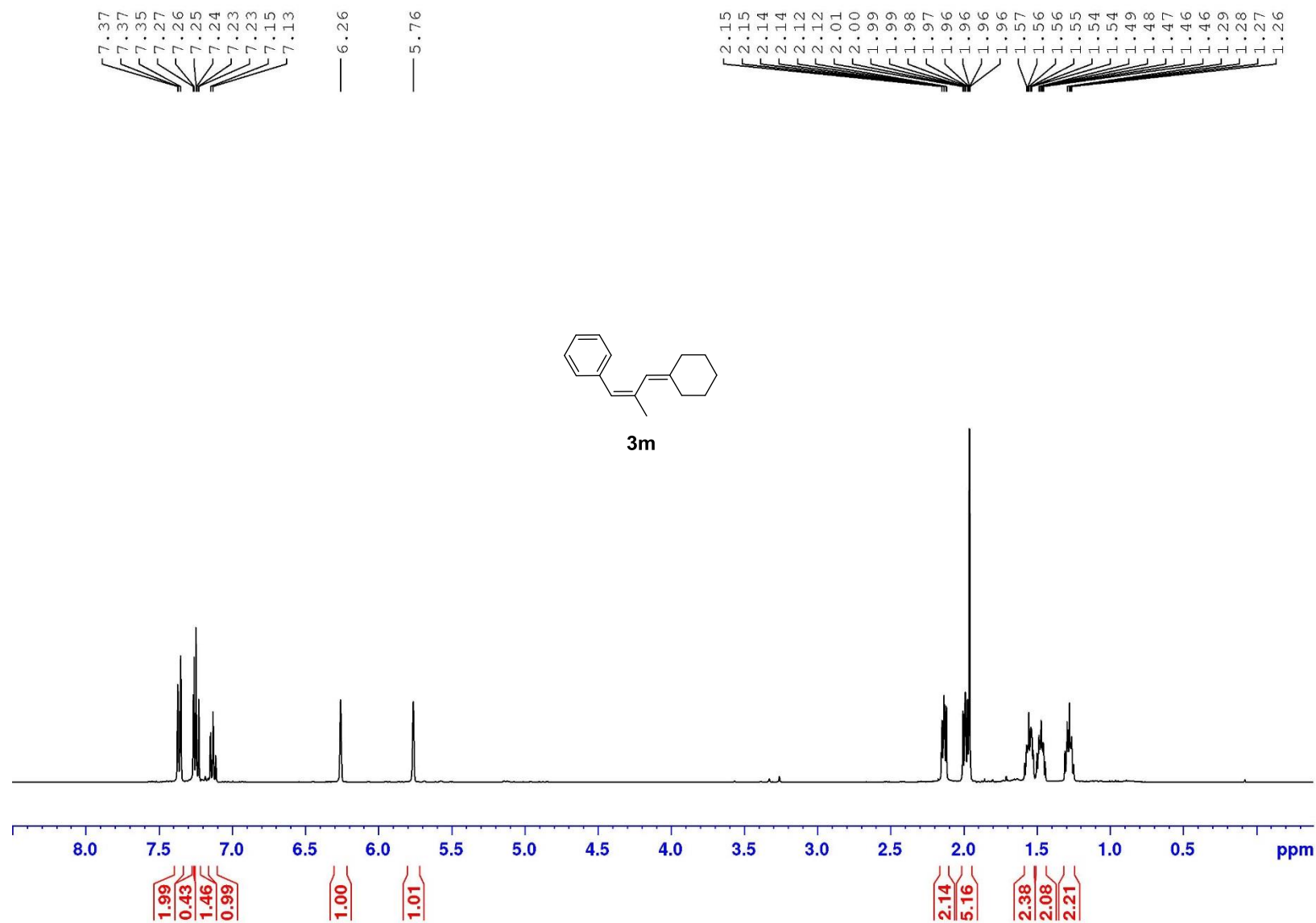


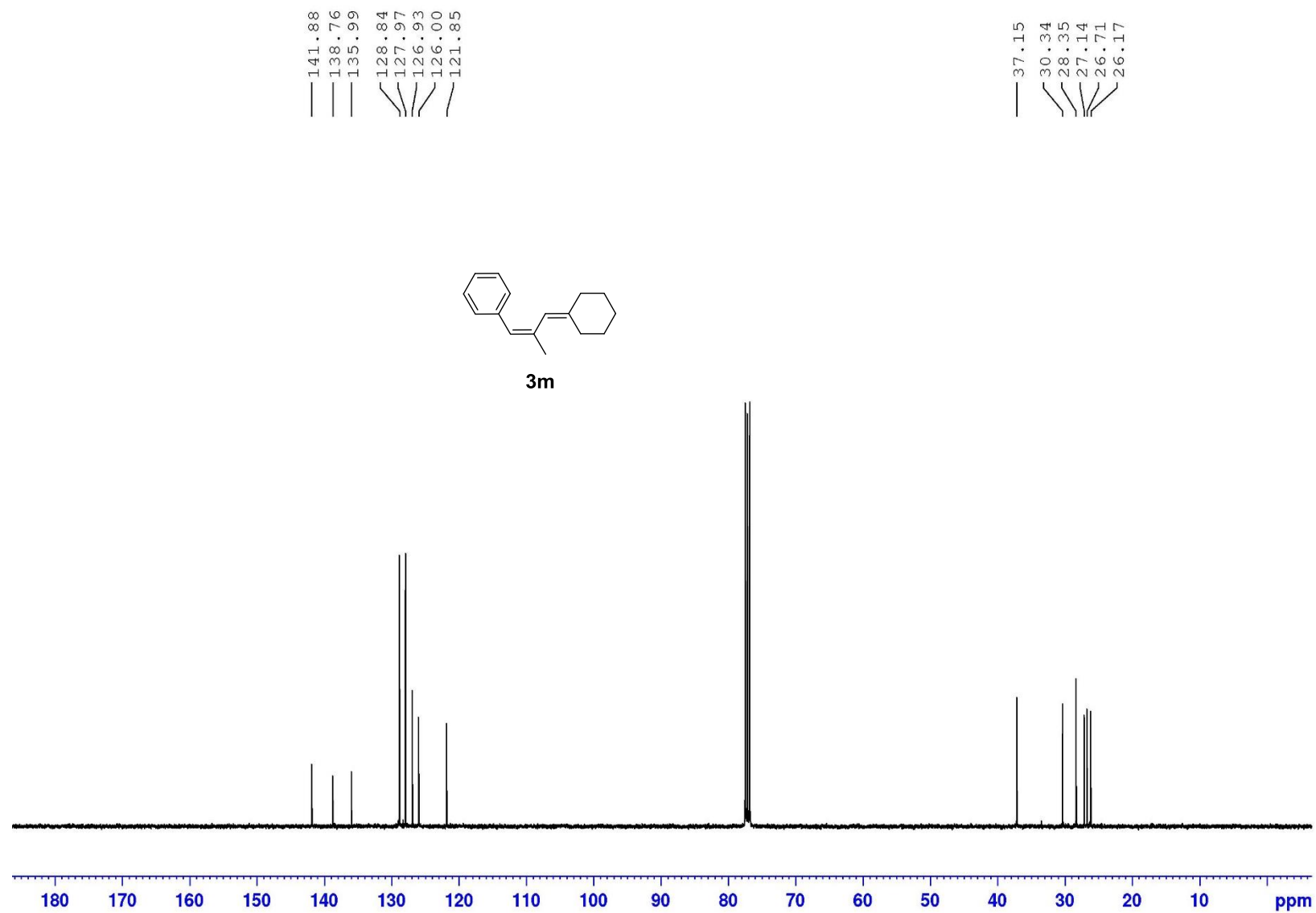
(2-methyloct-2-en-4-ylidene)cyclohexane (**3l**)



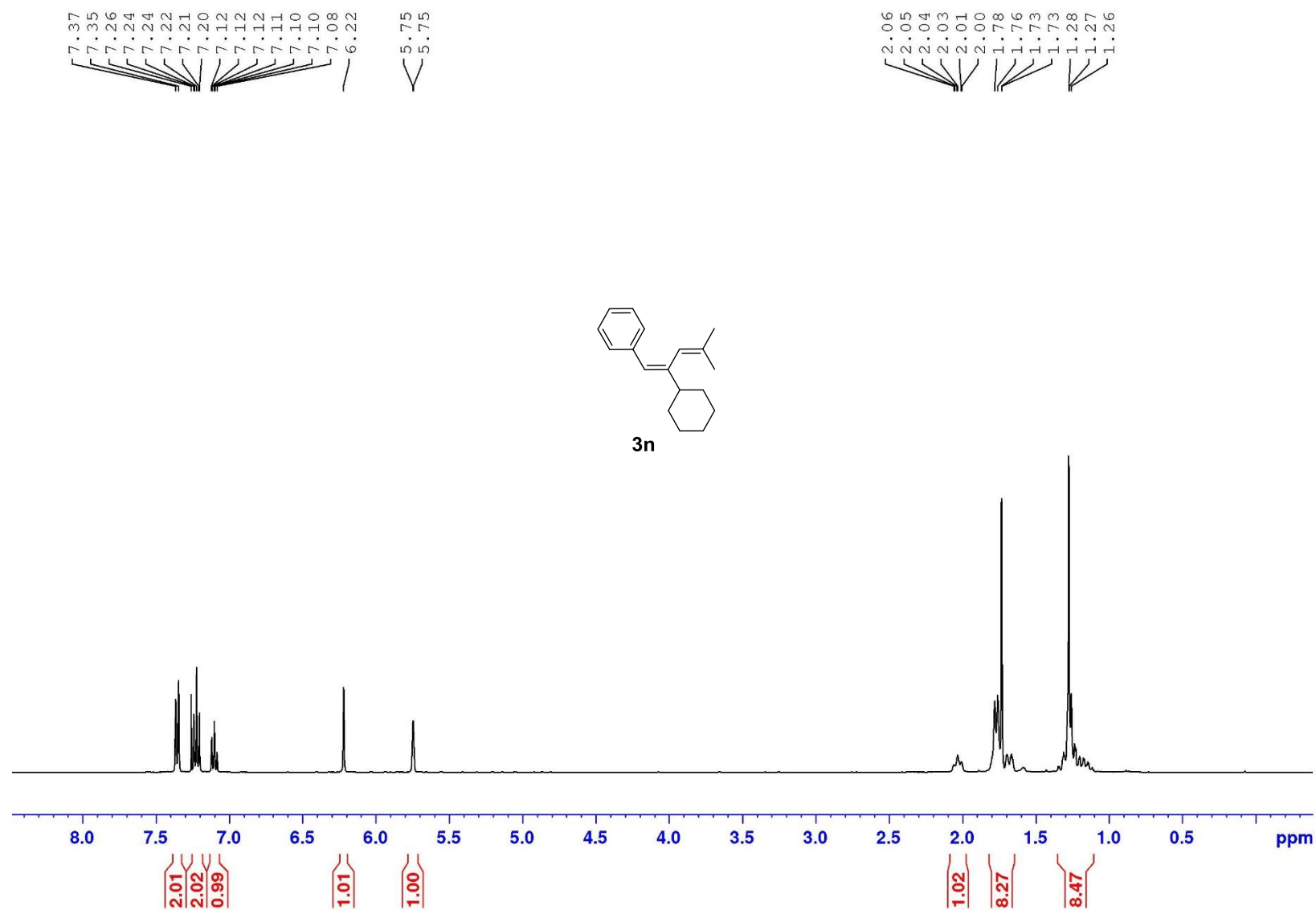


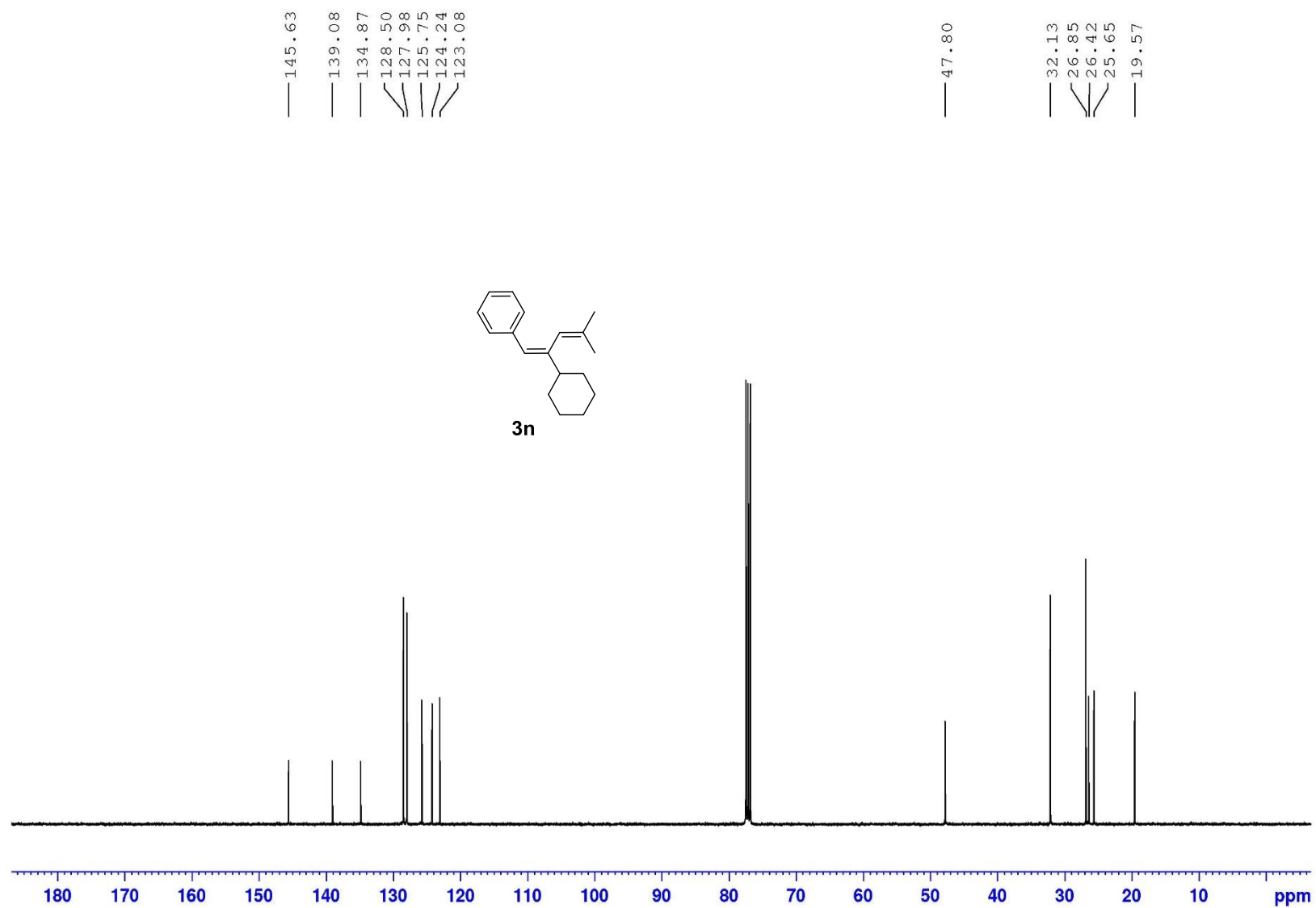
(Z)-(3-cyclohexylidene-2-methylprop-1-en-1-yl)benzene (**3m**)





(Z)-(2-cyclohexyl-4-methylpenta-1,3-dien-1-yl)benzene (**3n**)





((1Z)-2,4,5-trimethylhexa-1,3-dien-1-yl)benzene (3o)

