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Supplementary Material

Following are ¹H NMR spectra and IR data for compounds **11**, **12**, **13**, and **15**.

IR Data:

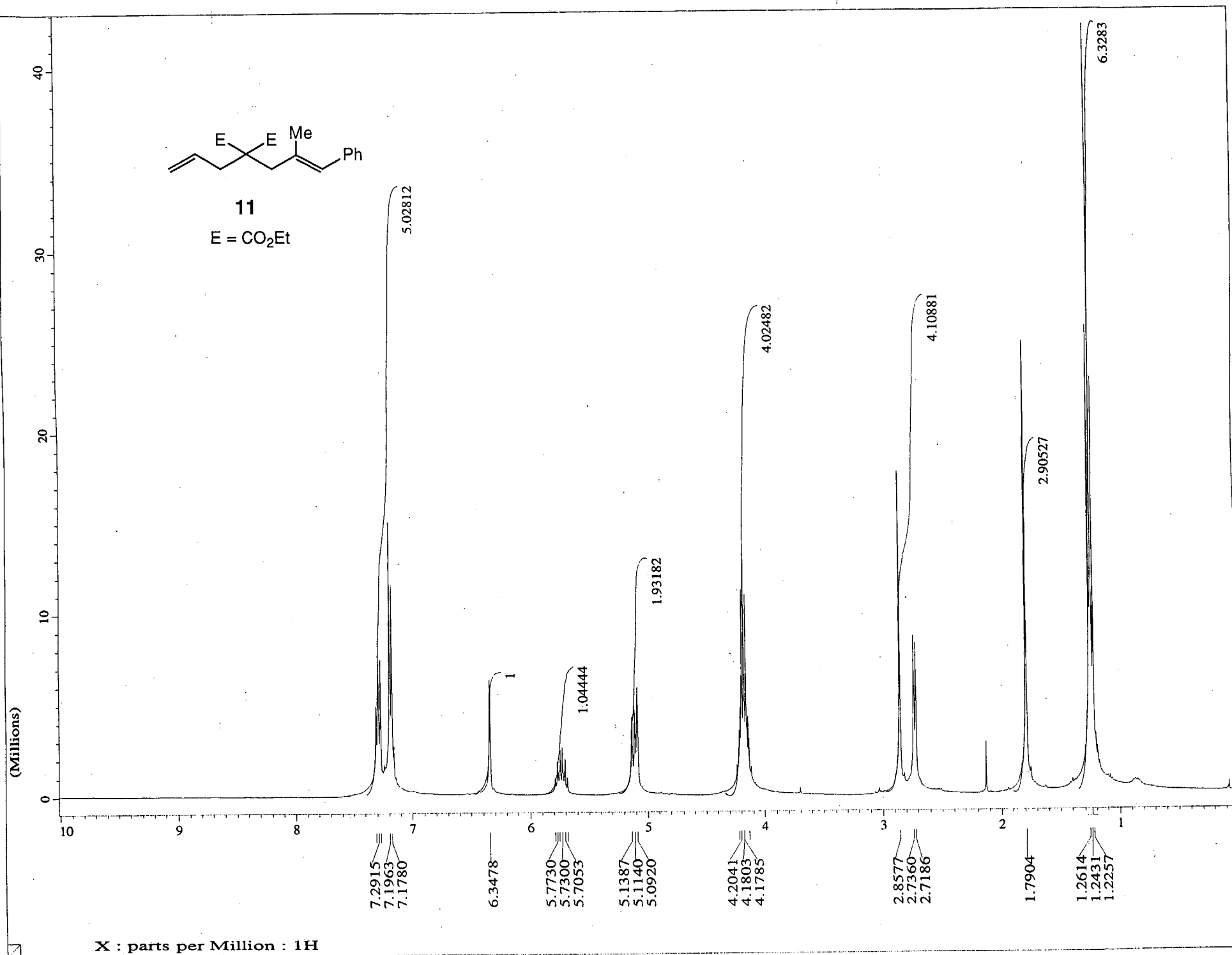
4,4-Dicarboethoxy-1-phenyl-1,7-octadiene (10). IR (neat, cm⁻¹) 3085, 2980, 2938, 1732, 1642, 1599, 1448, 1367, 742, 694.

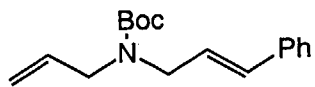
4,4-Dicarboethoxy-1-phenyl-2-methyl-1,6-heptadiene (11). IR (neat, cm⁻¹) 3080, 2982, 2934, 2872, 1735, 1641, 1599, 1445, 1367, 1211, 921, 744, 700.

N-Boc-N-Allyl-trans-Cinnamylamine(12). IR (neat, cm⁻¹) 3084, 2977, 2931, 1747, 1694, 1599, 1456, 1404, 1246, 1170, 967, 923, 879, 746, 693.

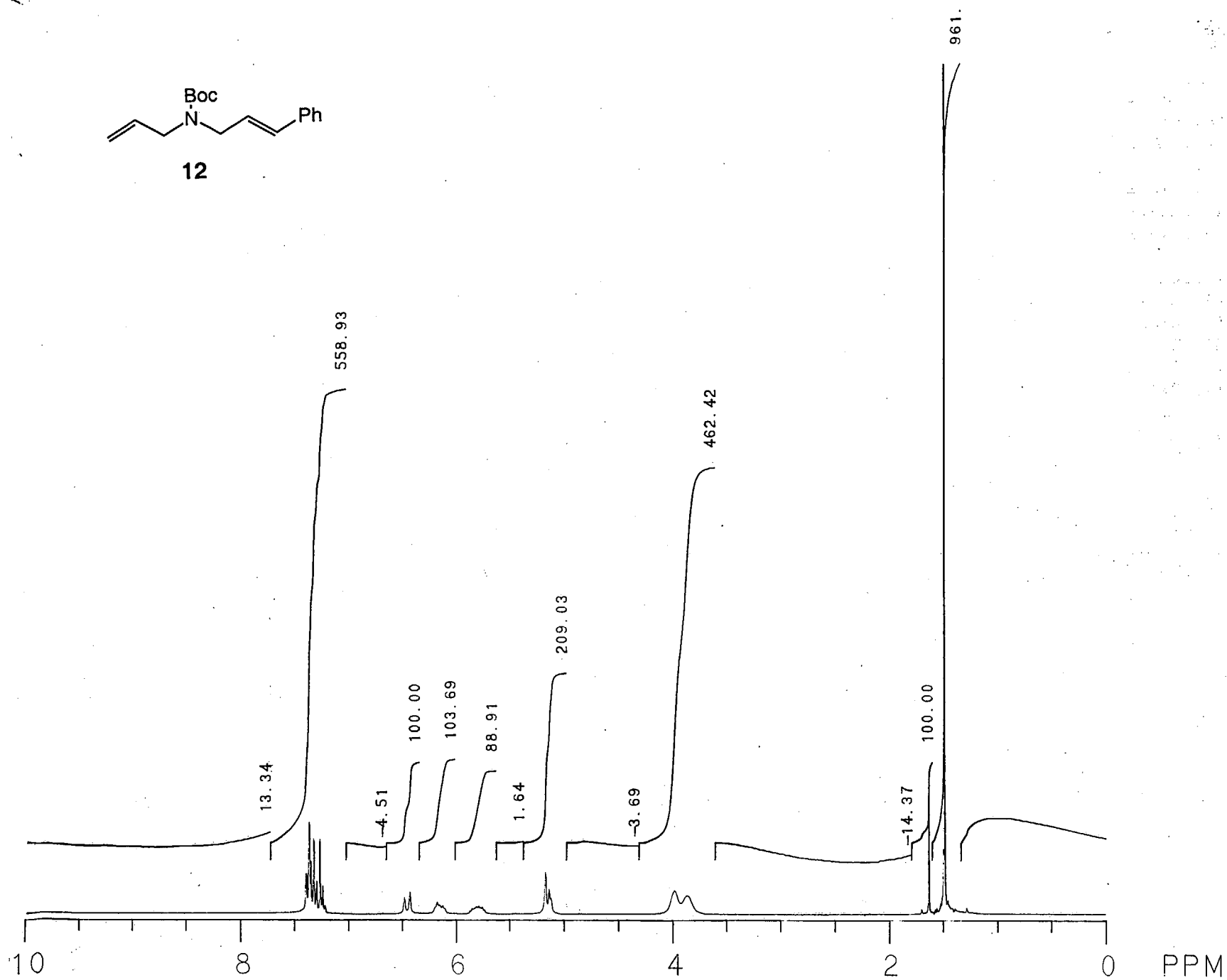
N-Boc-N-allyl-cis-cinnamylamine (13). IR (neat, cm⁻¹) 3082, 2977, 2931, 1694, 1601, 1456, 1408, 1249, 1170, 917, 878, 773, 700.

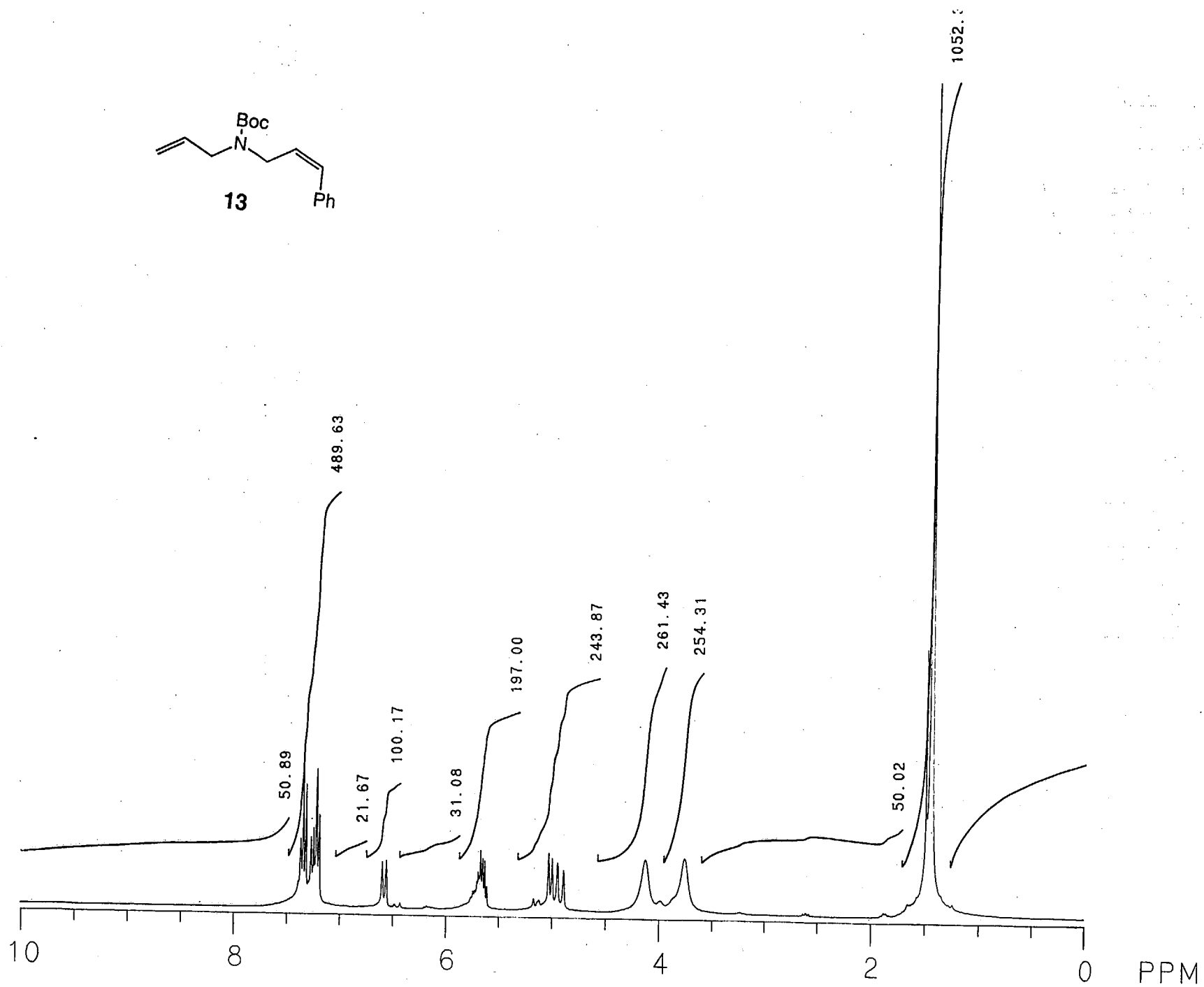
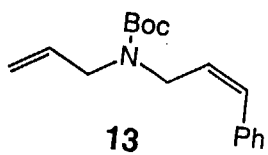
1-(N,N,N-Trimethyl ammonium chloride)-2-Allyl-5-phenyl-4-pentene (15). IR (neat, cm⁻¹) 3059, 2997, 2915, 1482, 1439, 987, 973, 920, 864, 746, 695, 644.

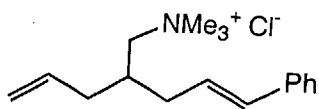




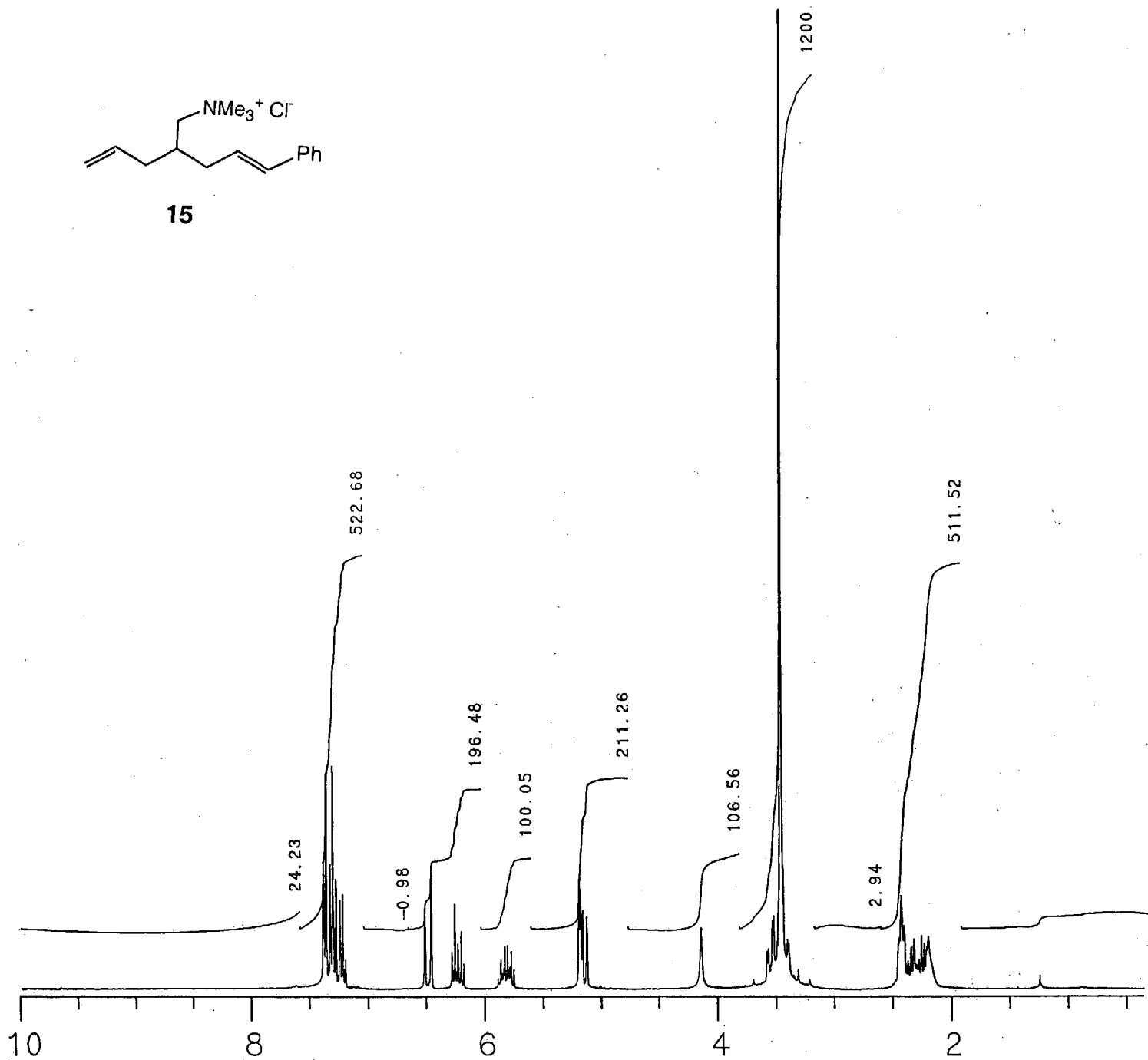
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