Supplementary Material

The first example of amine-induced reversal of diastereoselectivity in acylation of some *trans*-2-substituted cyclohexanols

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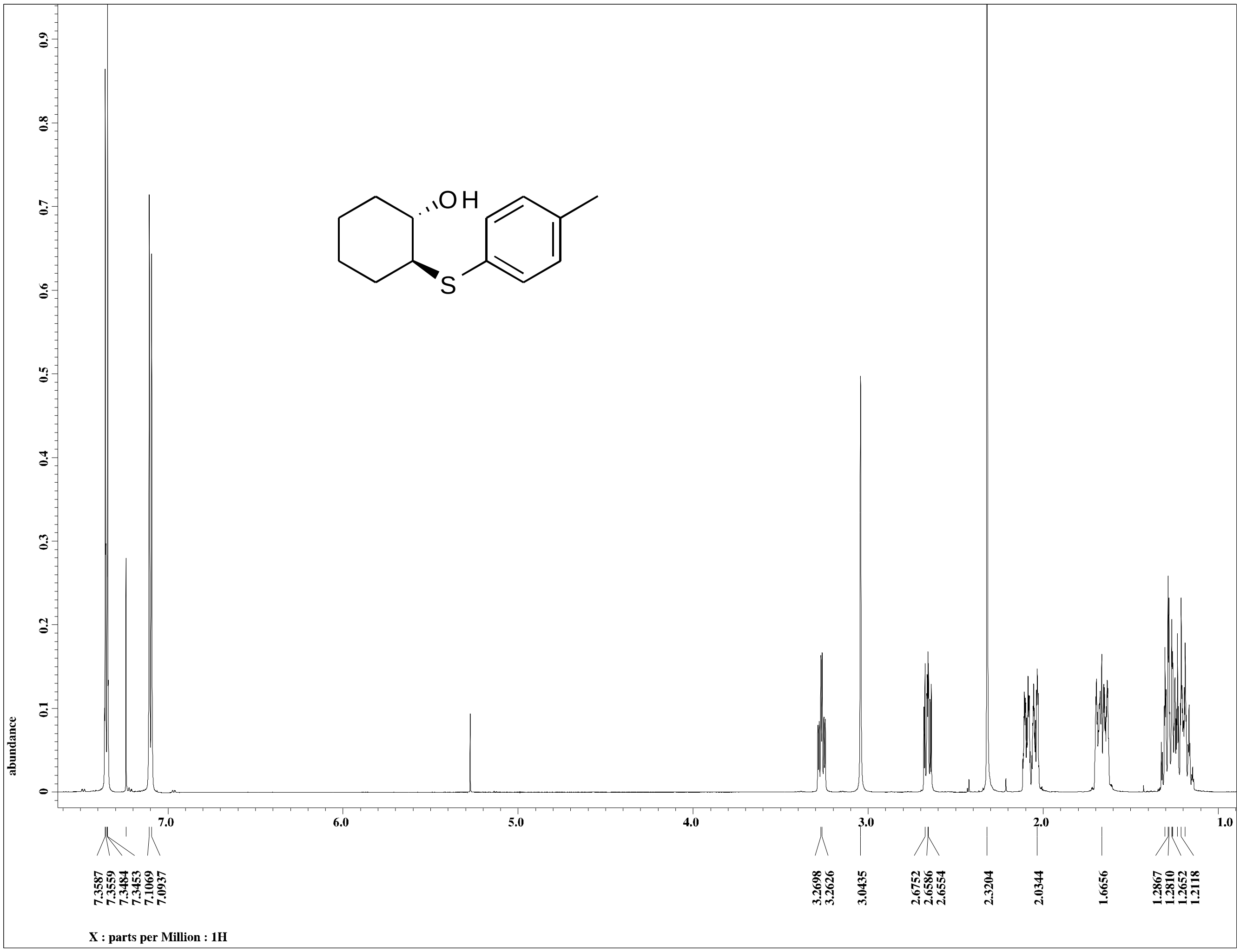
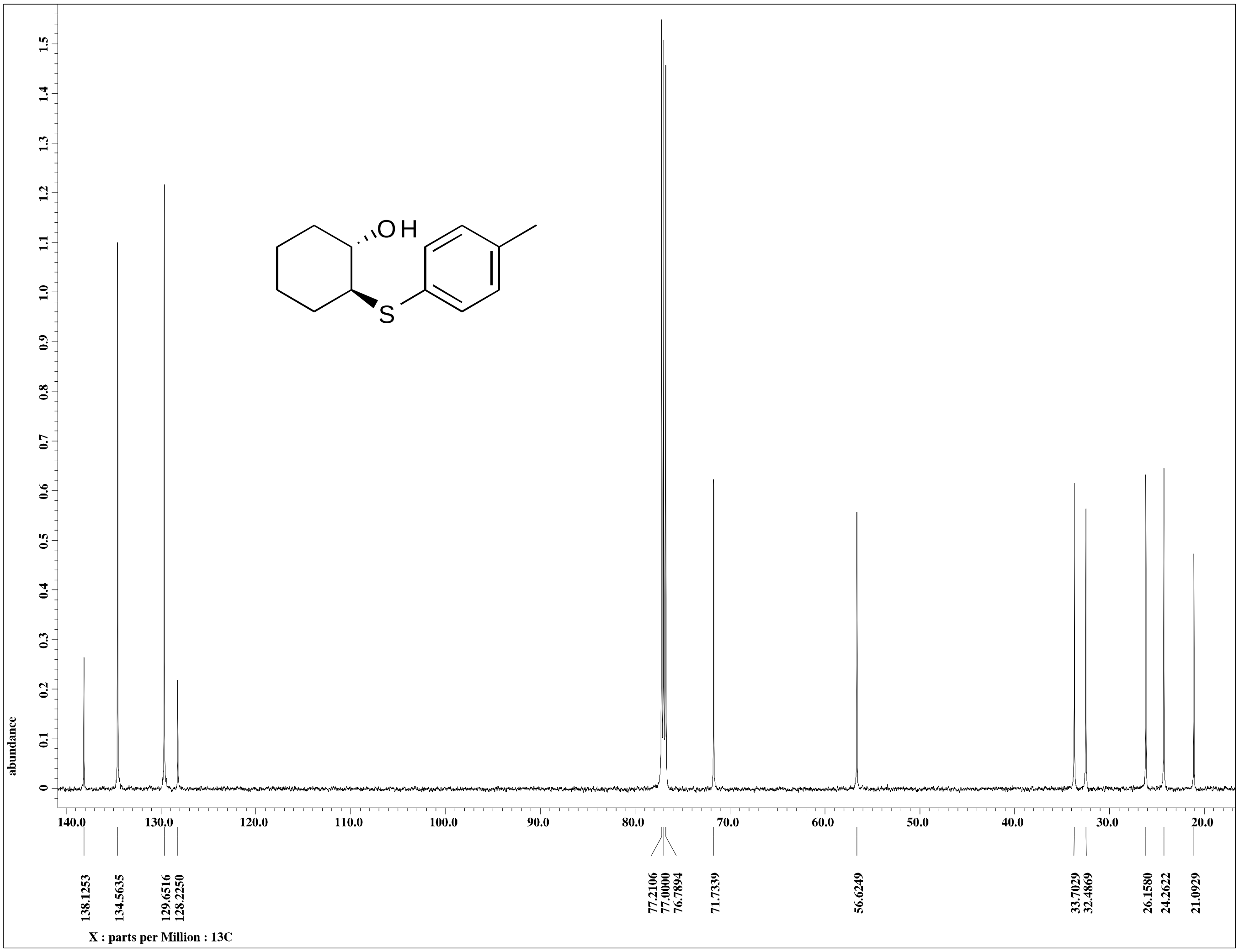
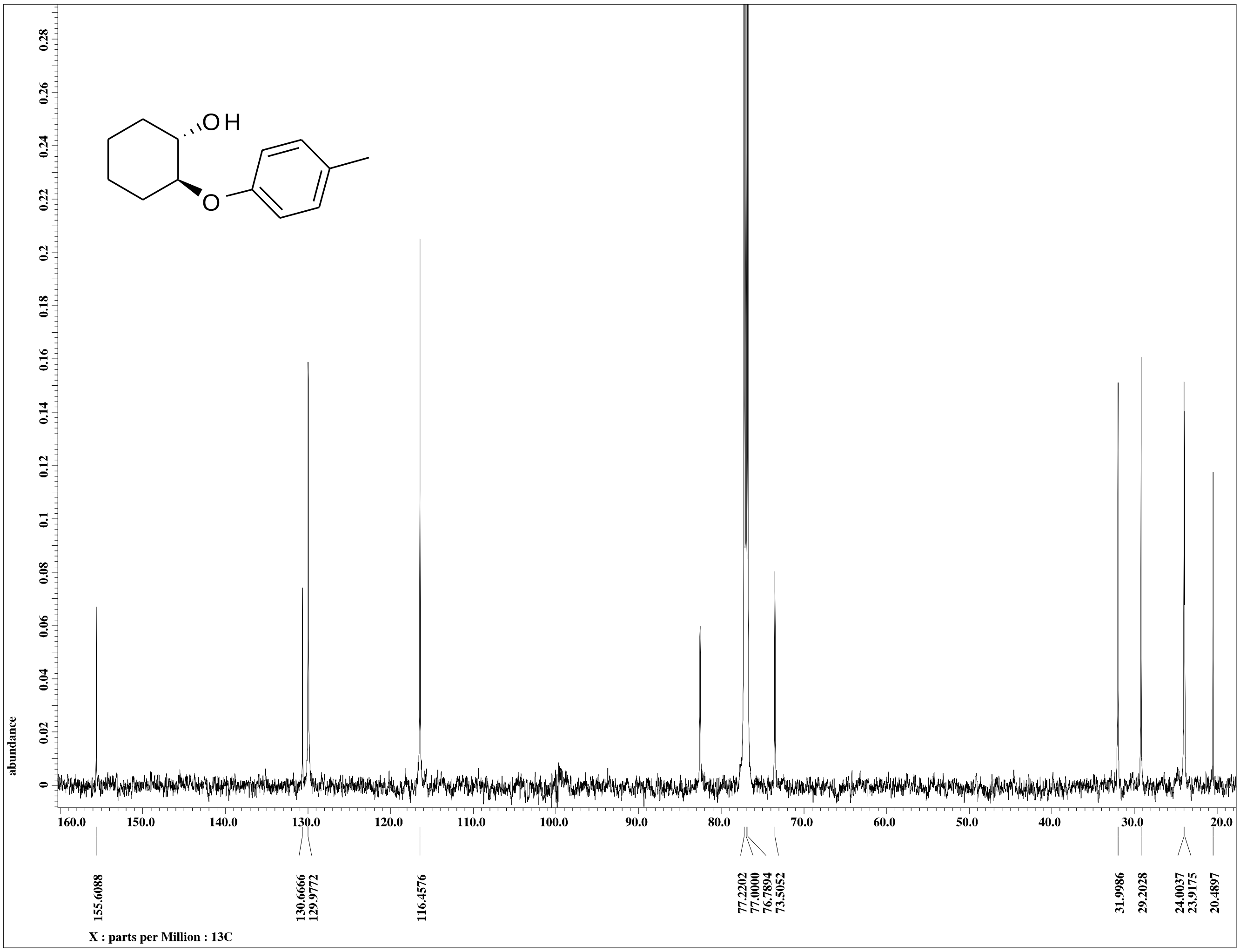


Compound (±)-*trans*-**1a**: ^{1}H-NMR of (±)-*trans*-2-(*p*-tolylsulfanyl)cyclohexanol

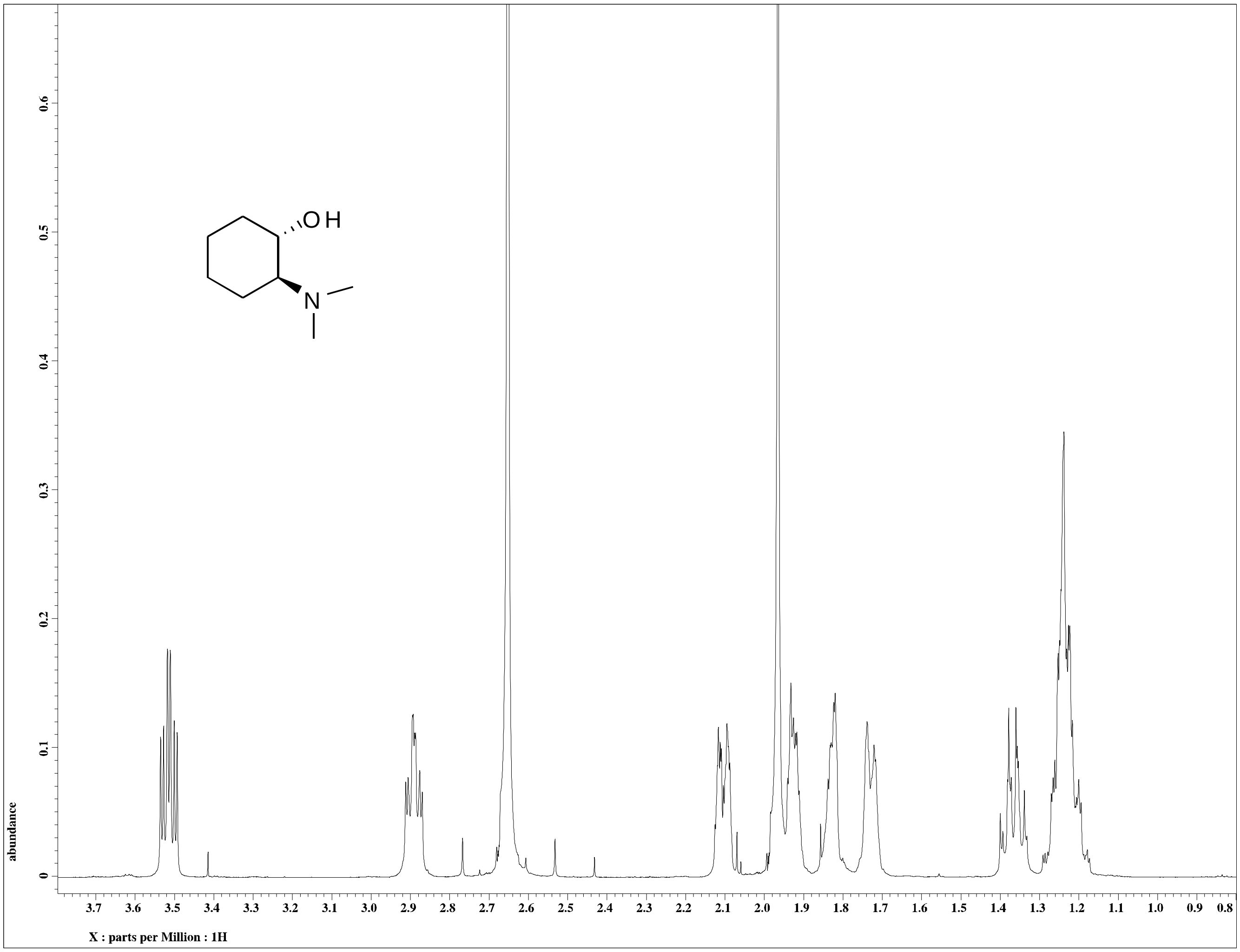


Compound (±)-*trans*-**1a**: ^{13}C-NMR of (±)-*trans*-2-(*p*-tolylsulfanyl)cyclohexanol

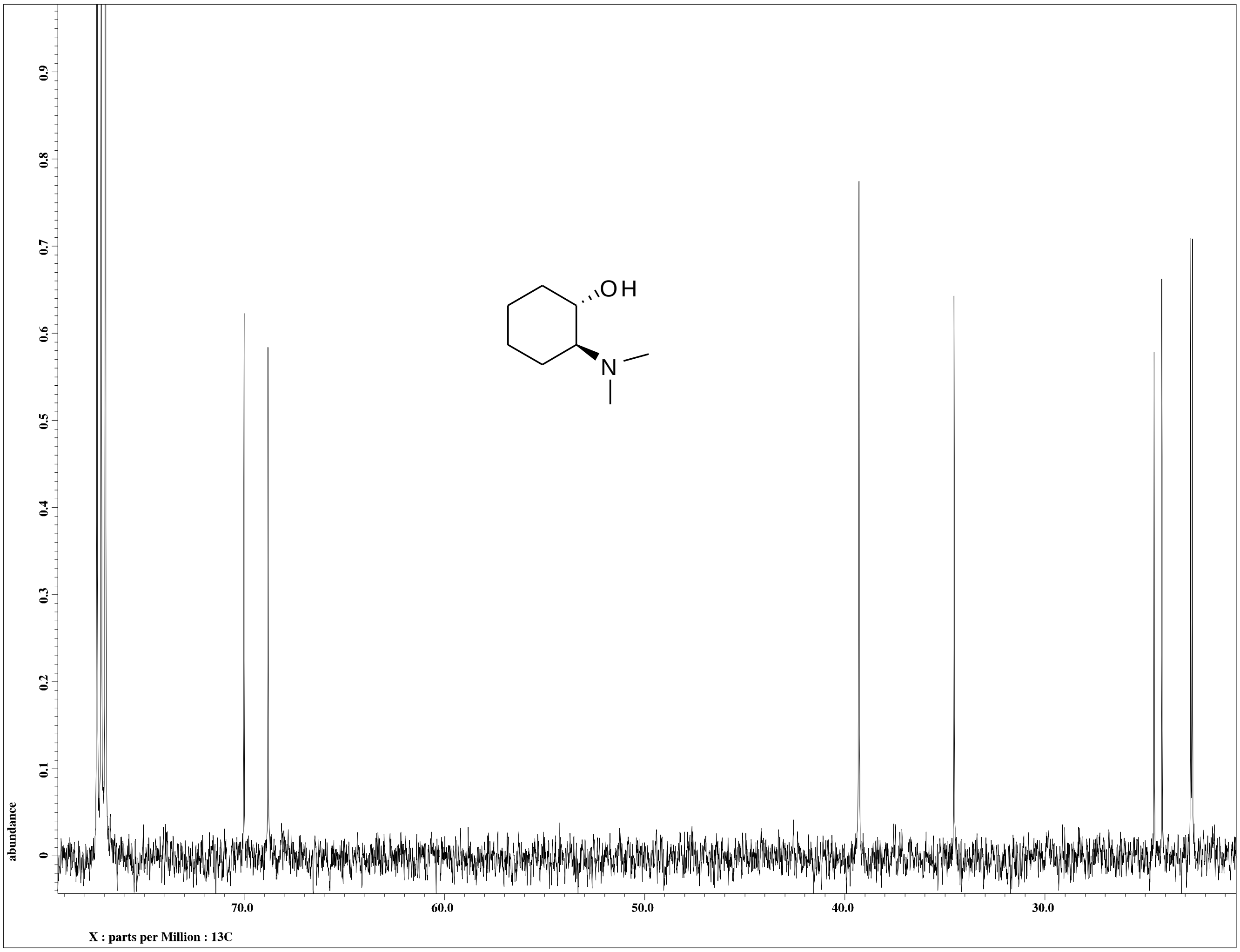
Compound (±)-*trans*-**1b**: ^{1}H-NMR of *trans*-2-(*p*-tolyloxy)cyclohexanol



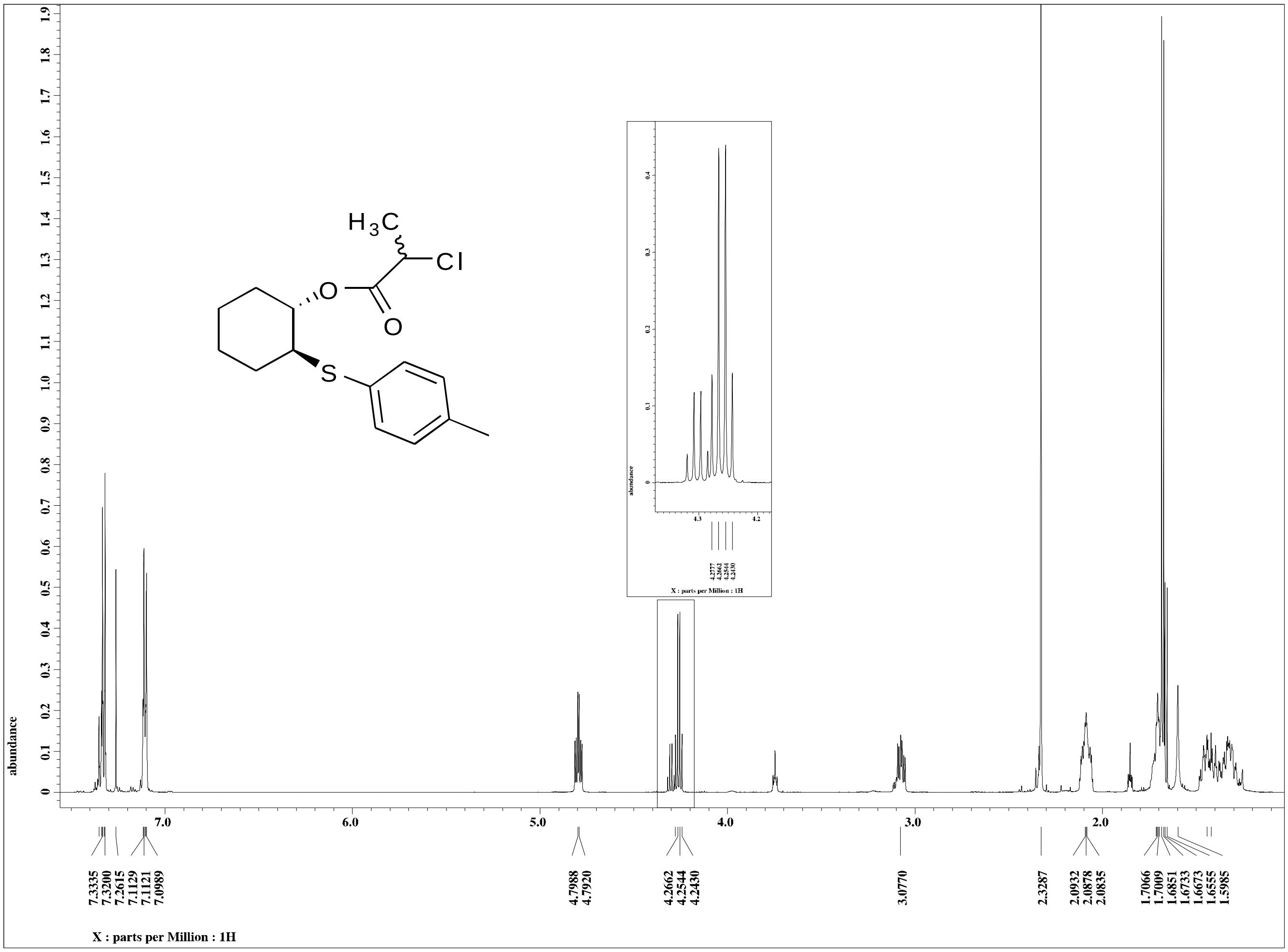
Compound (±)-*trans*-**1b**: ^{13}C-NMR of *trans*-2-(*p*-tolyloxy)cyclohexanol



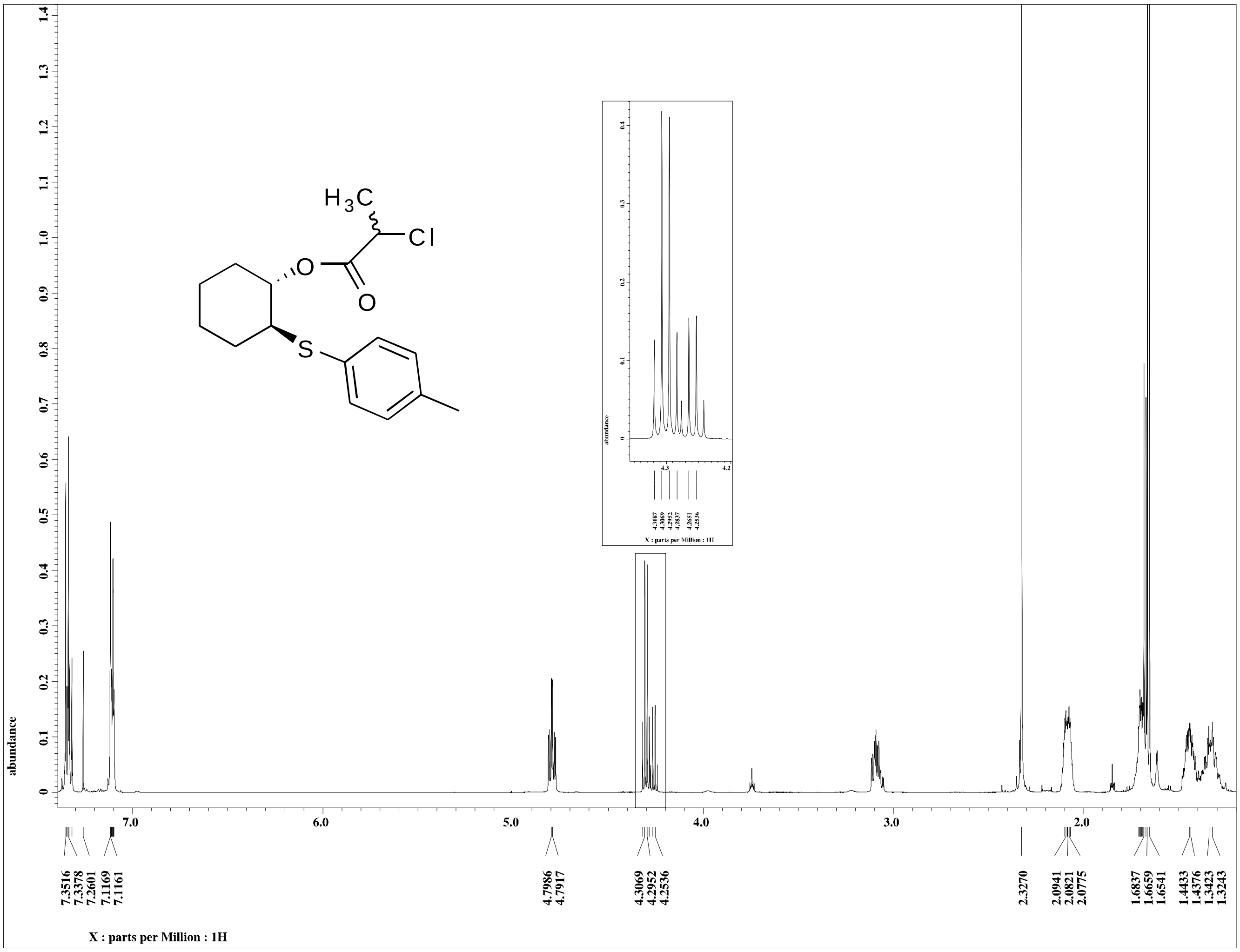
Compound (±)-*trans*-**1c**: ^{1}H-NMR of *trans*-2-(dimethylamino)cyclohexanol



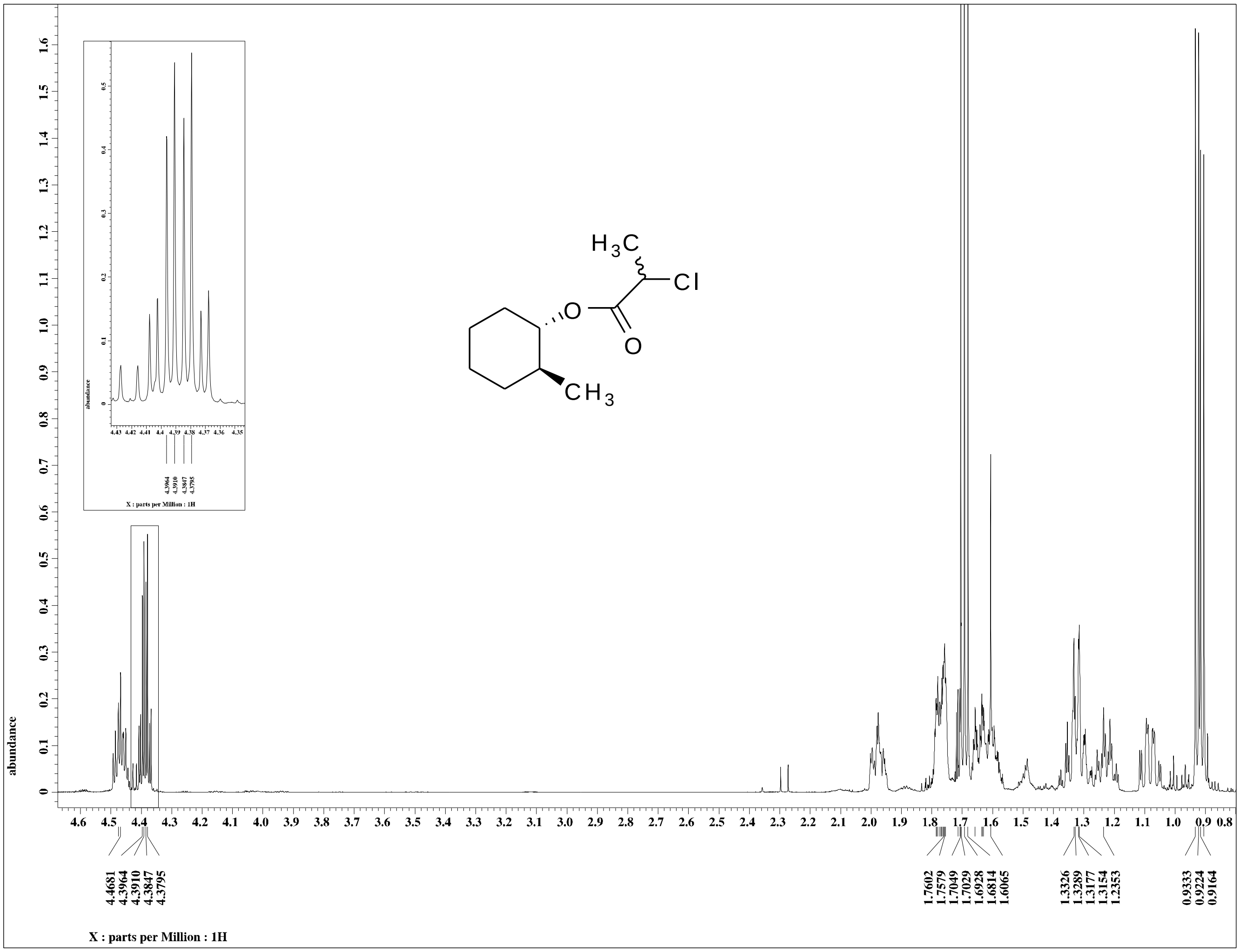
Compound (±)-*trans*-**1c**: ^{13}C-NMR of *trans*-2-(dimethylamino)cyclohexanol



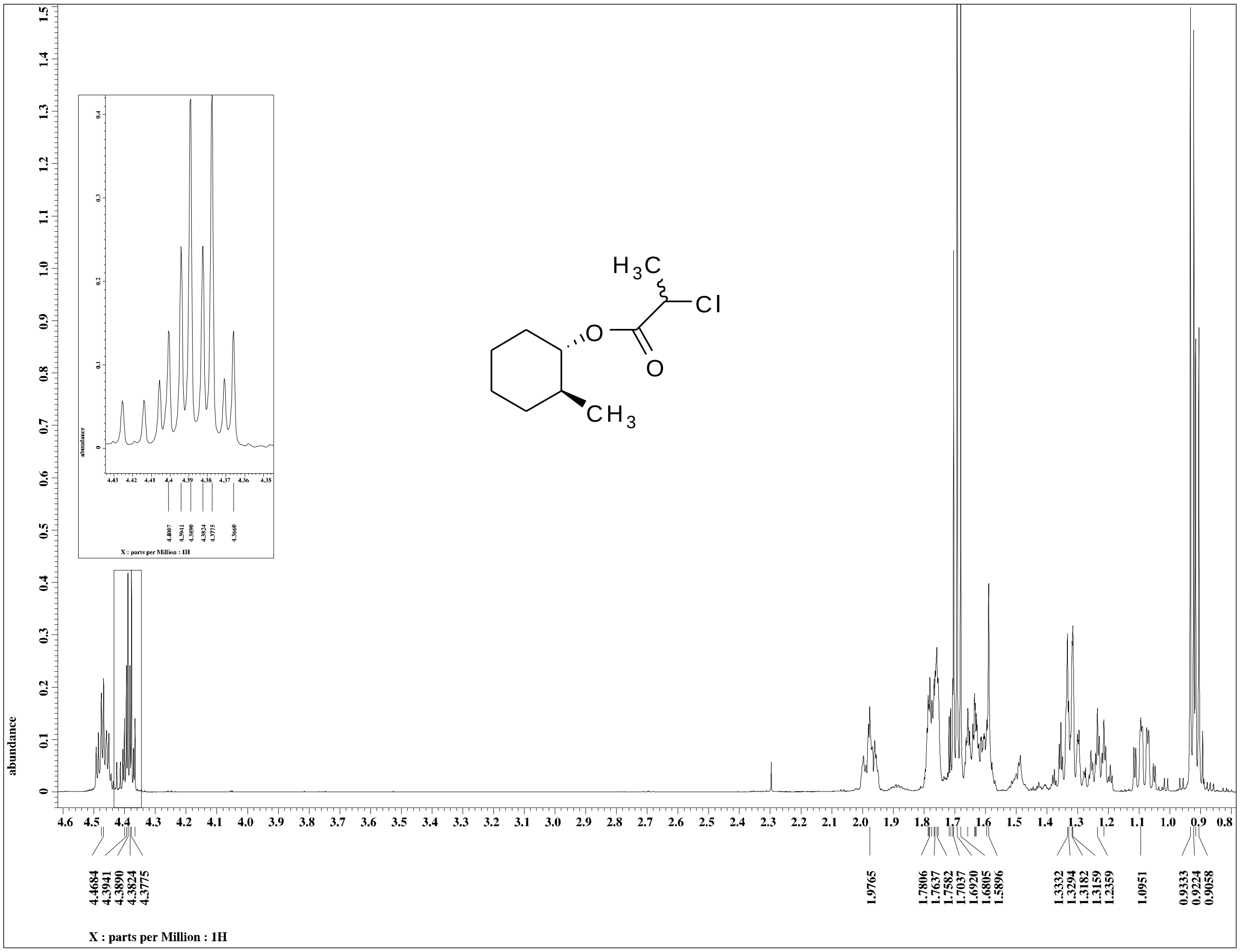
Mixture **3a/4a**: ^{1}H-NMR of isolated mixture of (±)-*trans*-2-(*p*-tolylsulfanyl)cyclohexyl 2-chloropropanoates produced without pyridine



Mixture **3a/4a**: [1]H-NMR of isolated mixture of (±)-*trans*-2-(*p*-tolylsulfanyl)cyclohexyl 2-chloropropanoates produced in presence of pyridine



Mixture **3d/4d**: [1]H-NMR of isolated mixture of (±)-*trans*-2-methylcyclohexyl 2-chloropropanoates produced without pyridine



Mixture **3d/4d**: [1]H-NMR of isolated mixture of (±)-*trans*-2-methylcyclohexyl 2-chloropropanoates produced in presence of pyridine