

SUPPORTING INFORMATION

PROTON NMR AND CARBON NMR SPECTRA

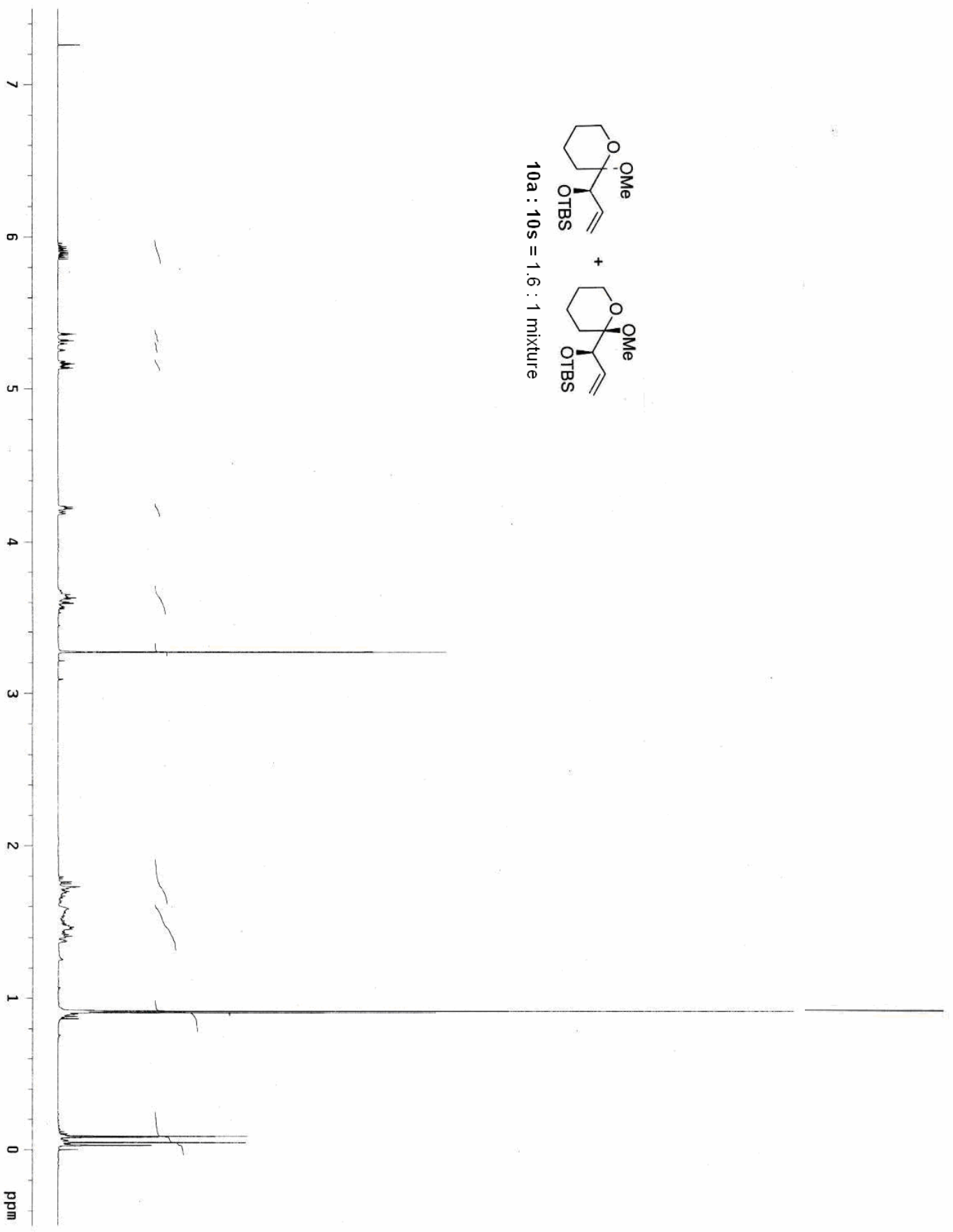
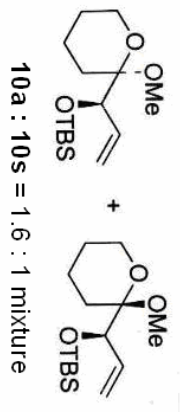
for the  
communication  
entitled

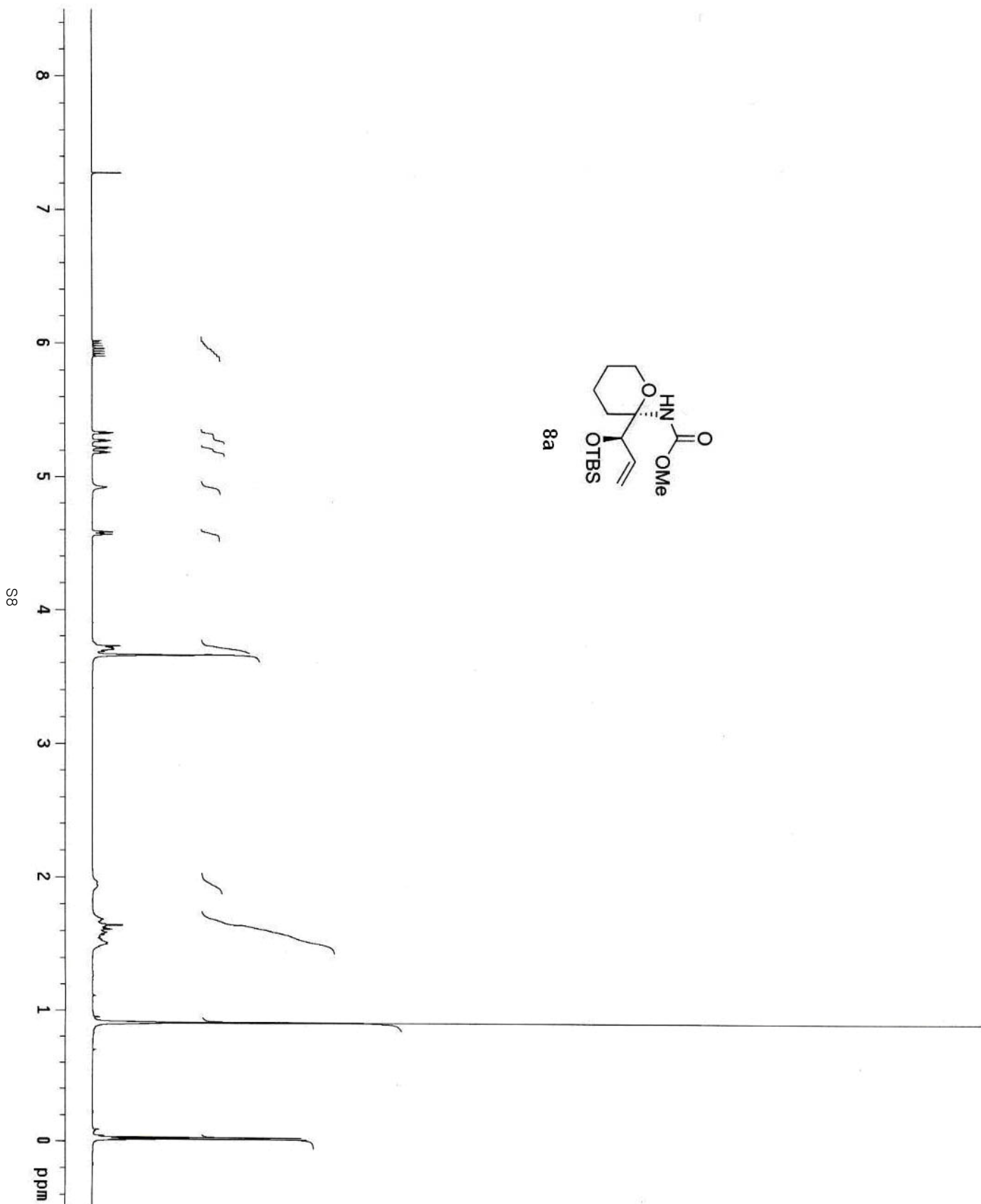
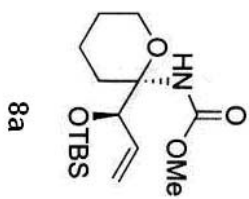
**An Unusual Stereoselectivity in the Anomeric Substitution with Carbamates Promoted by HNTf<sub>2</sub>.**

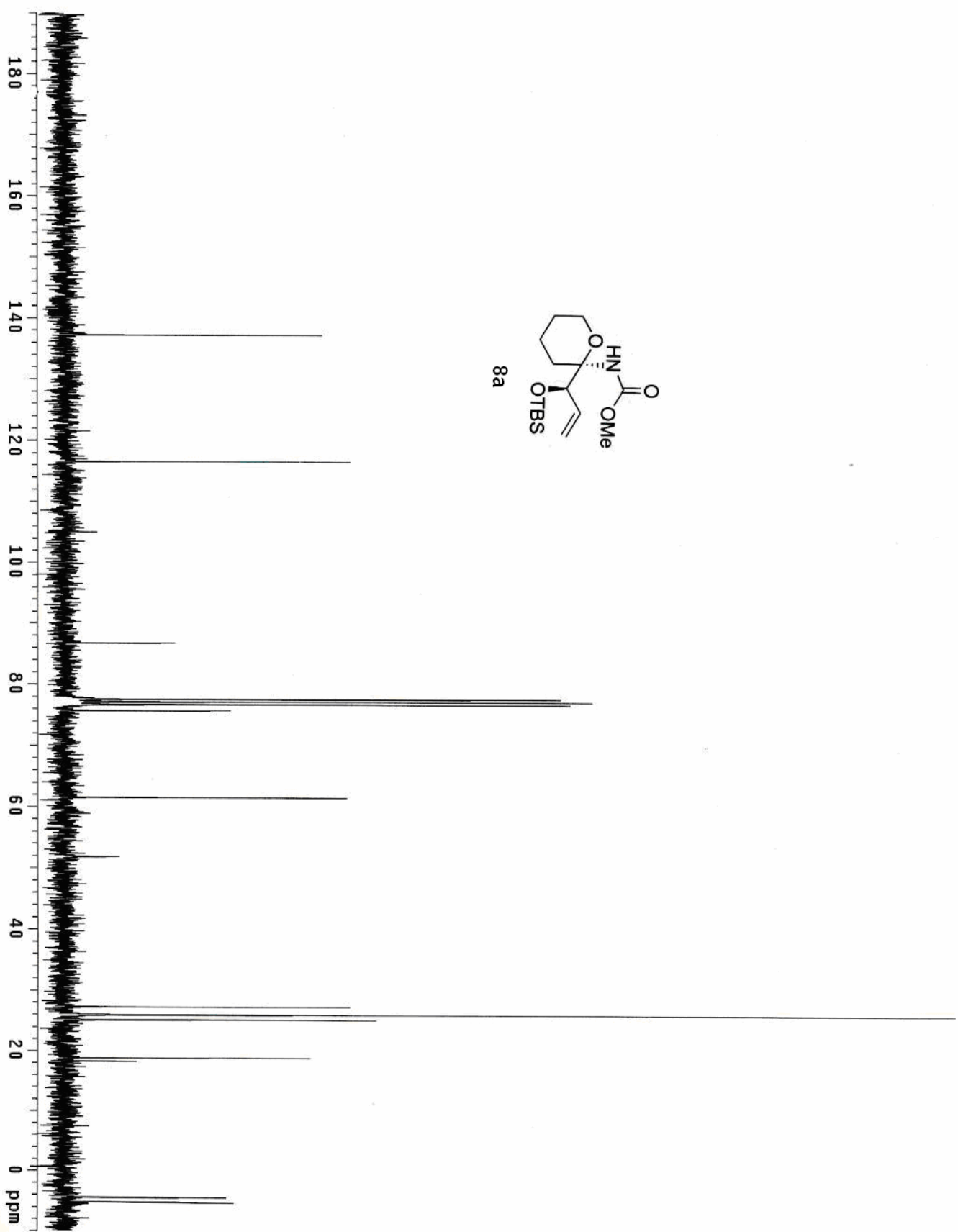
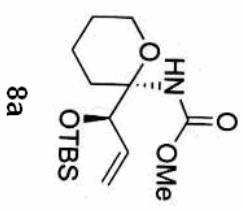
authored by

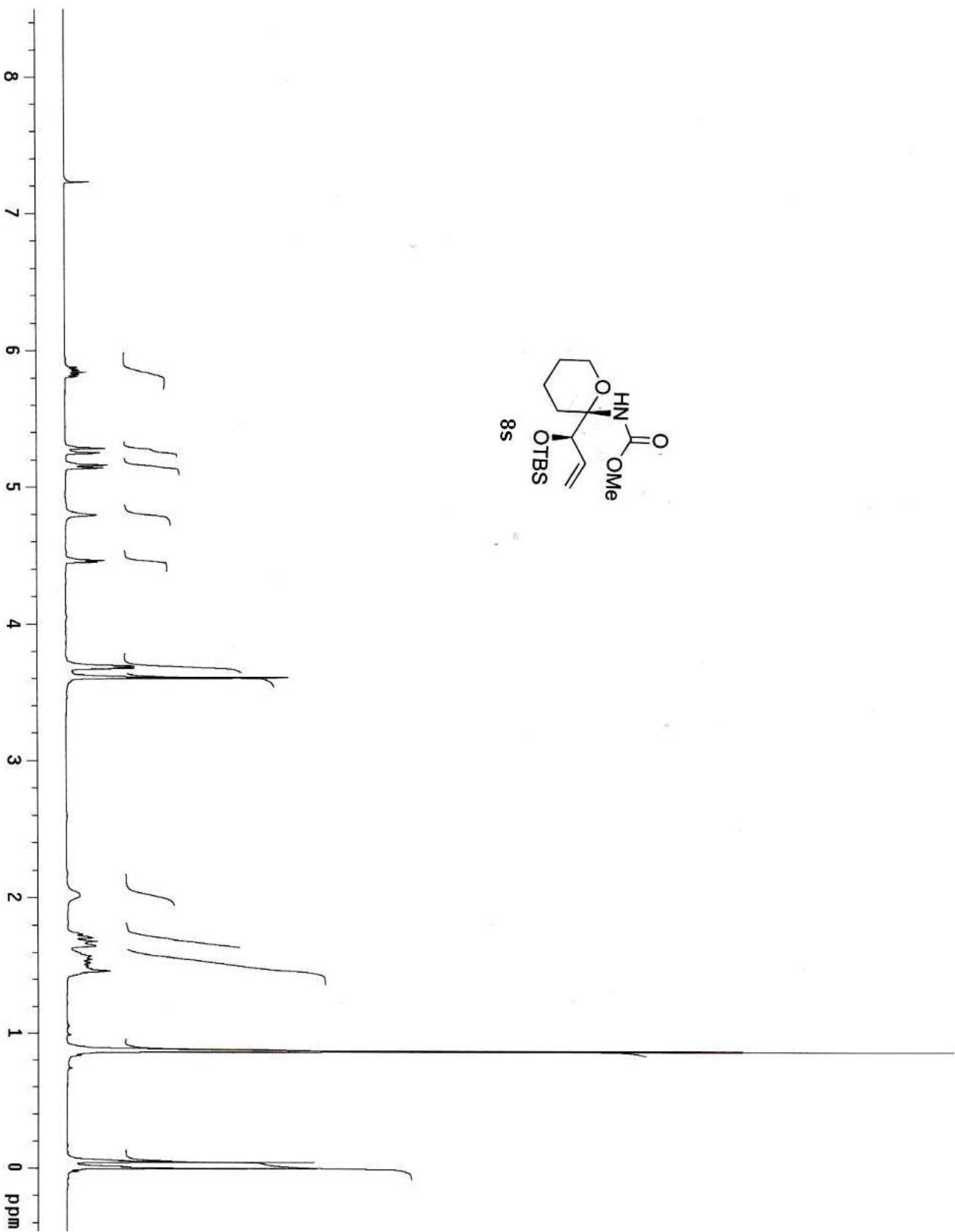
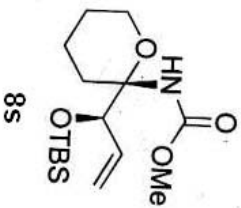
Changhong Ko and Richard P. Hsung\*

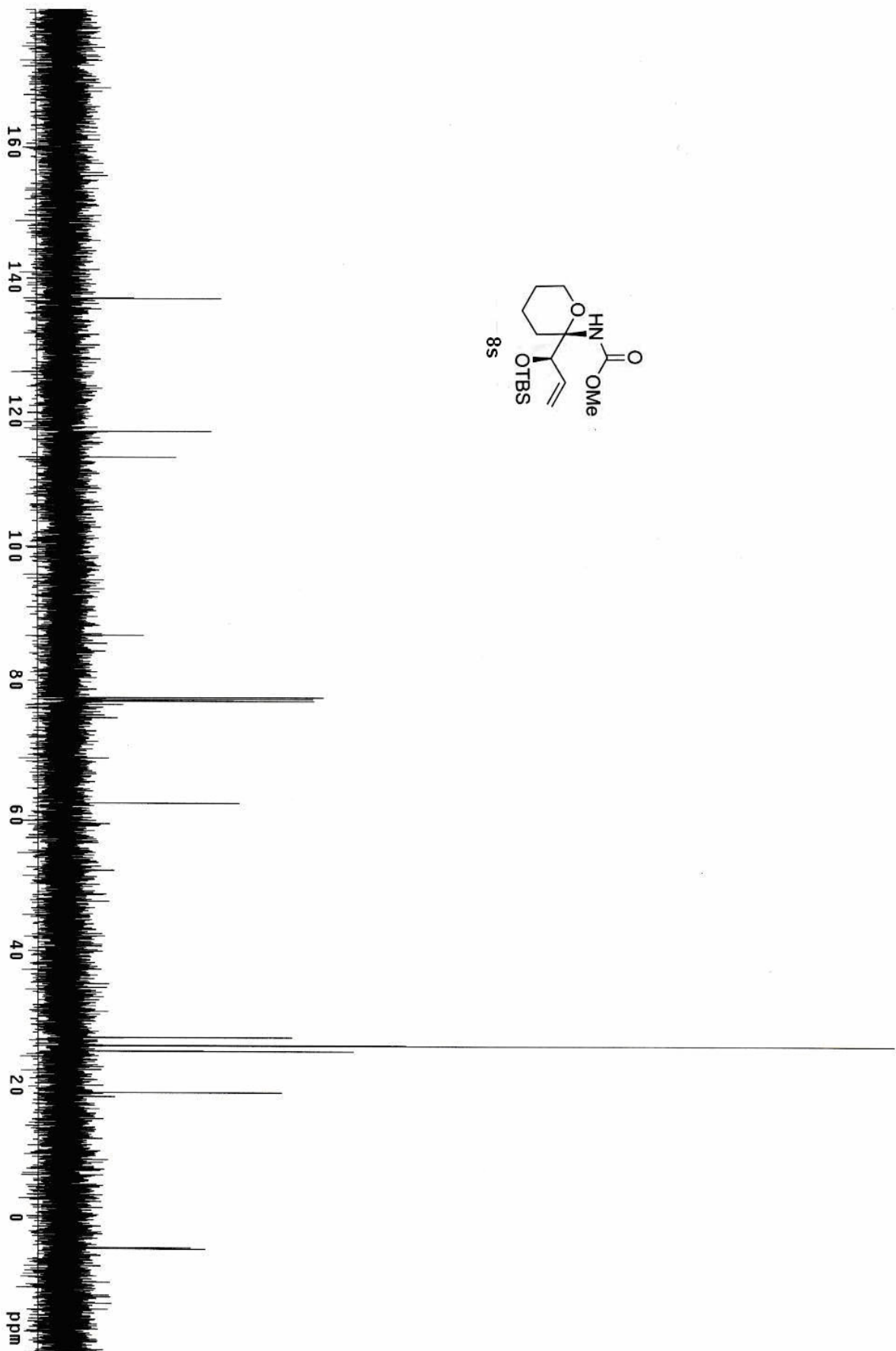
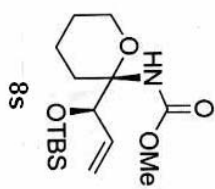
*Division of Pharmaceutical Sciences and Department of Chemistry, 7111 Rennebohm Hall, 777 Highland Avenue  
University of Wisconsin at Madison, Madison, WI 53705-2222*

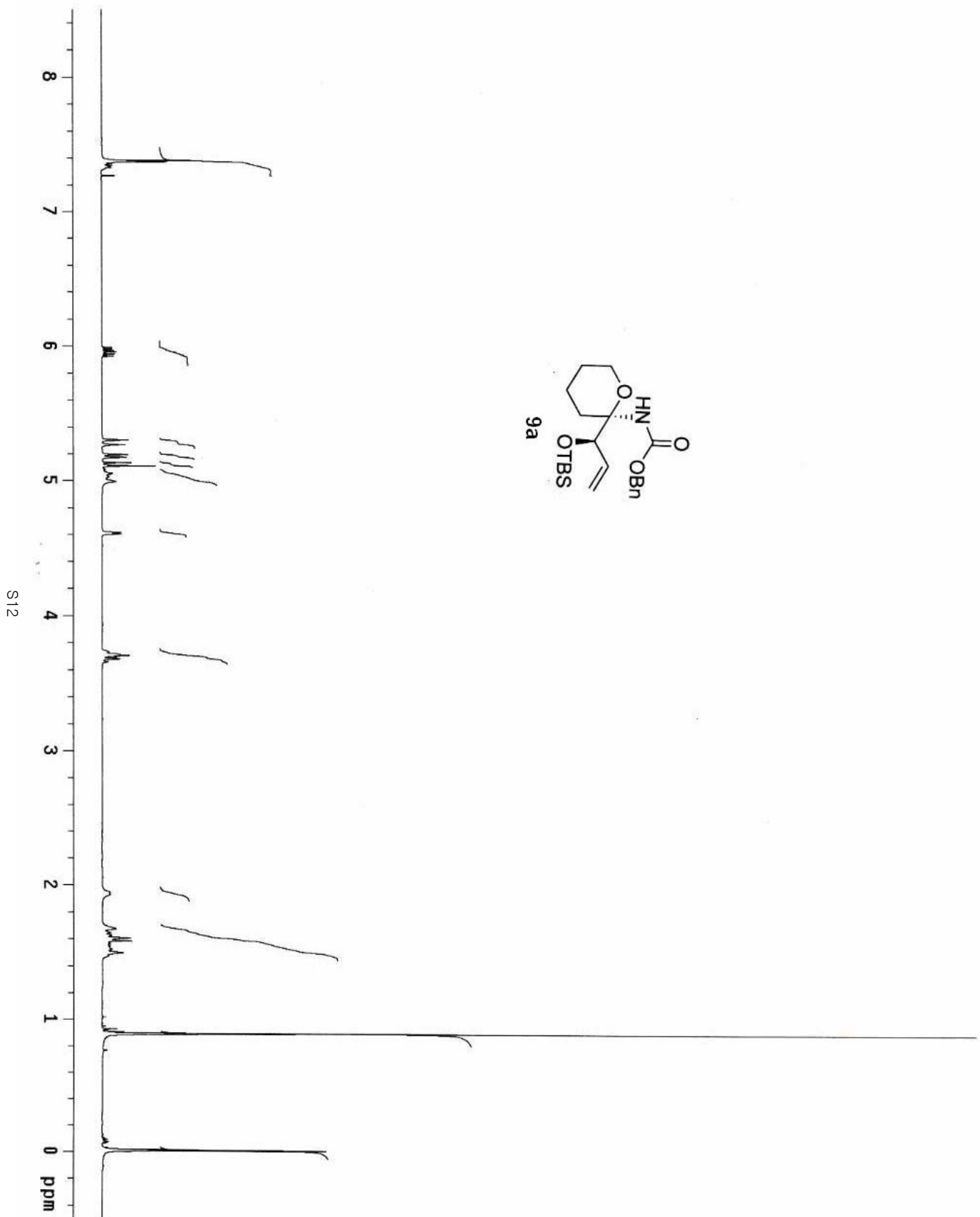
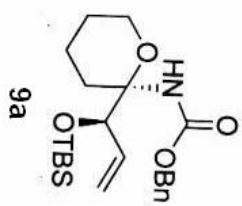


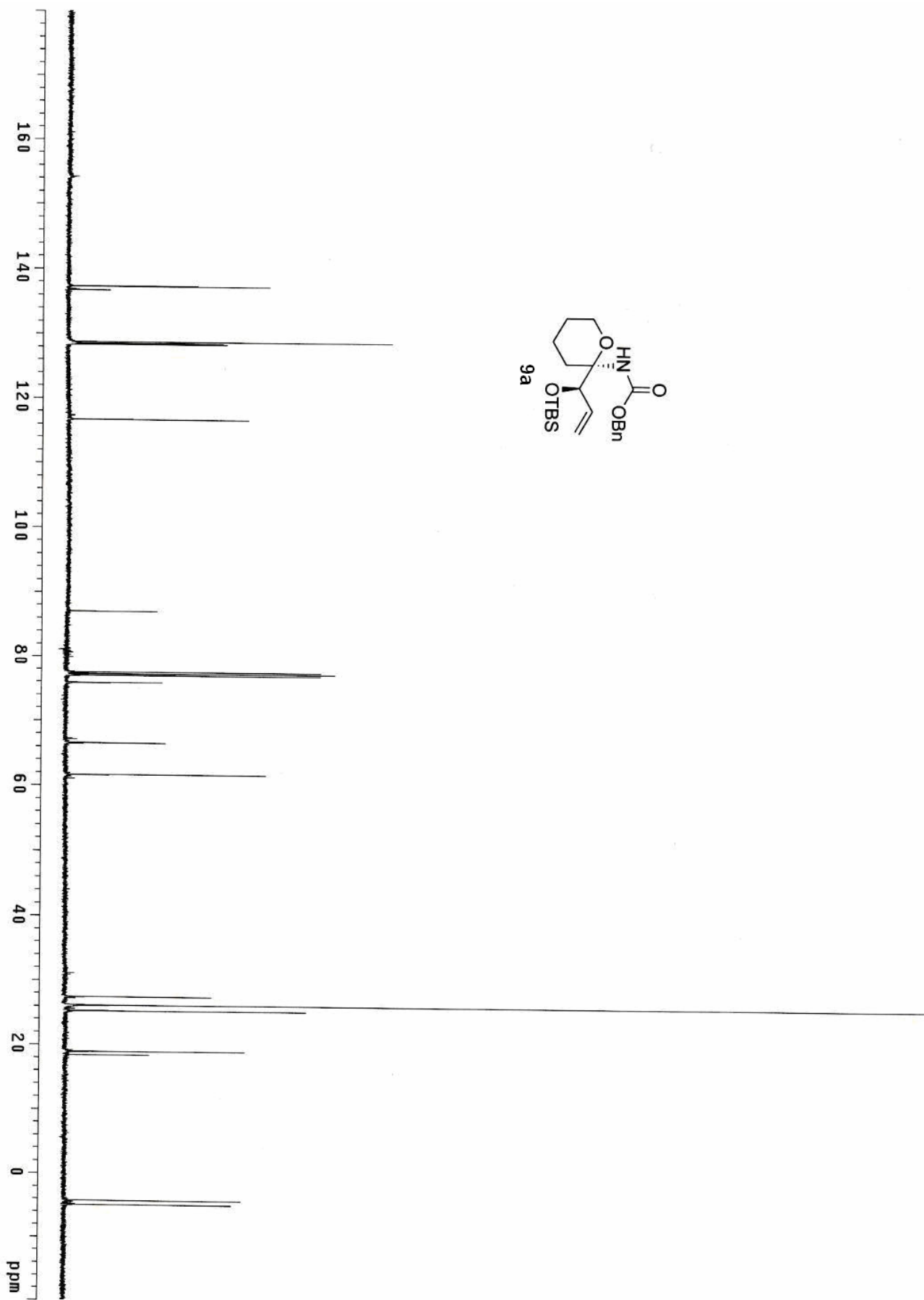
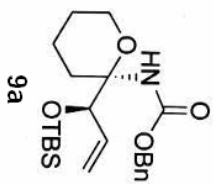




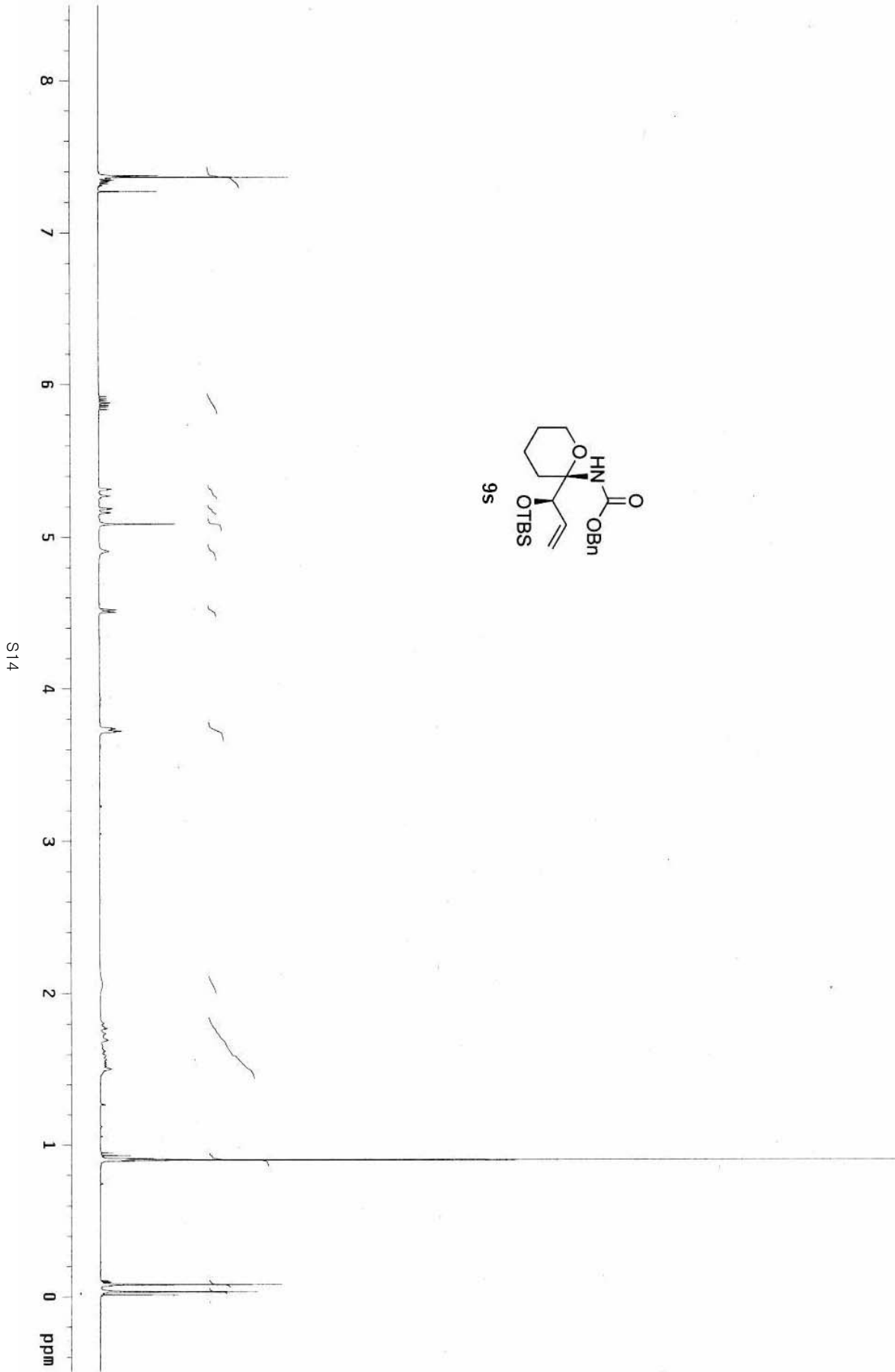
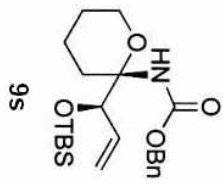


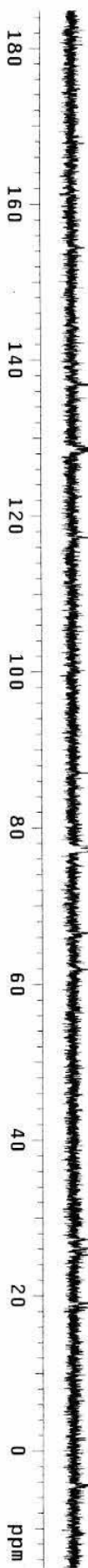
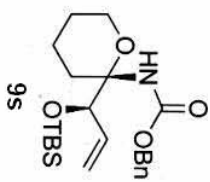


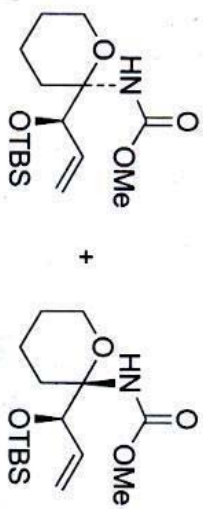






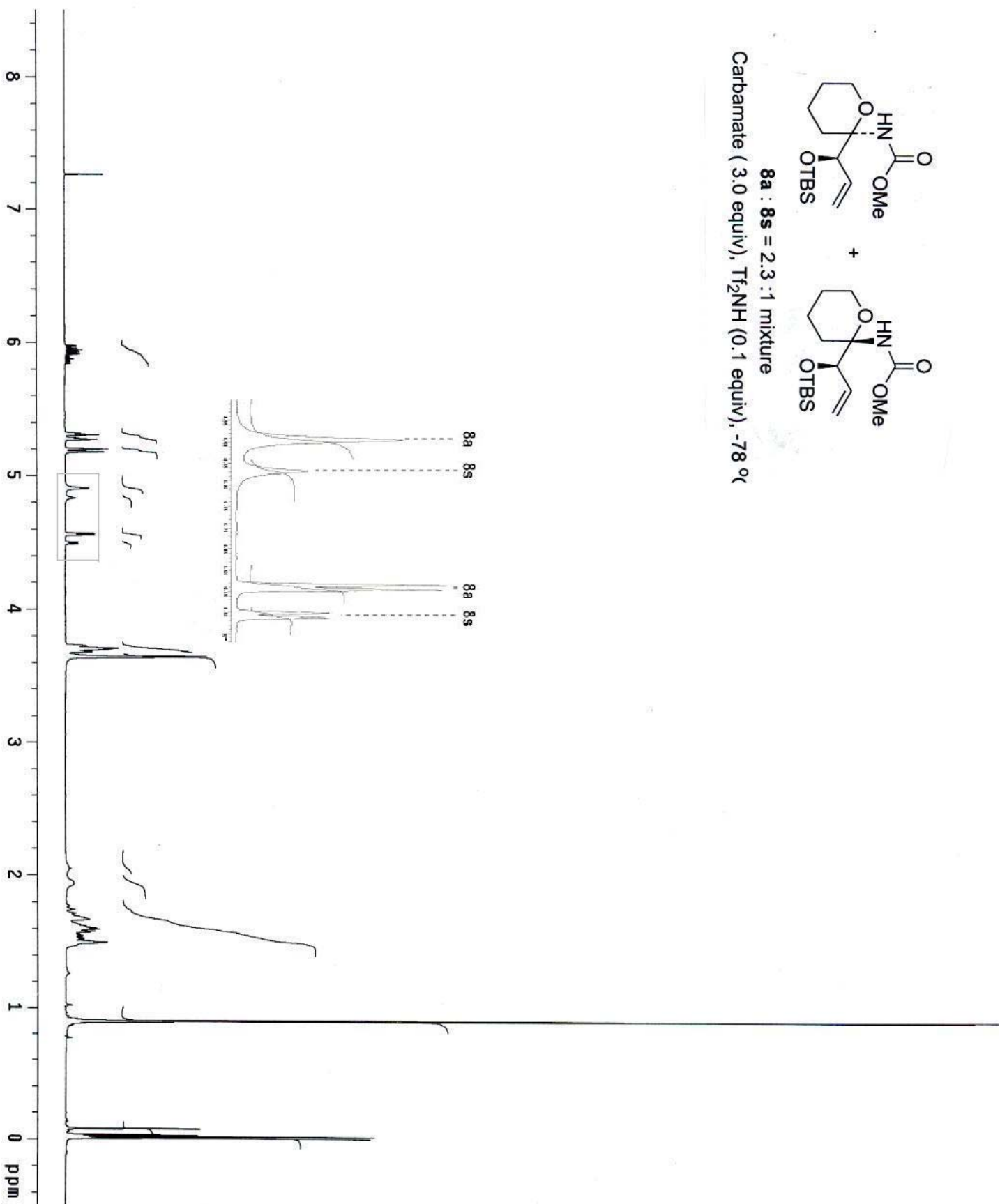


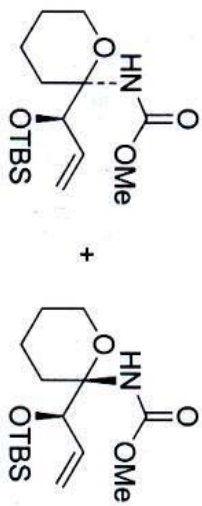




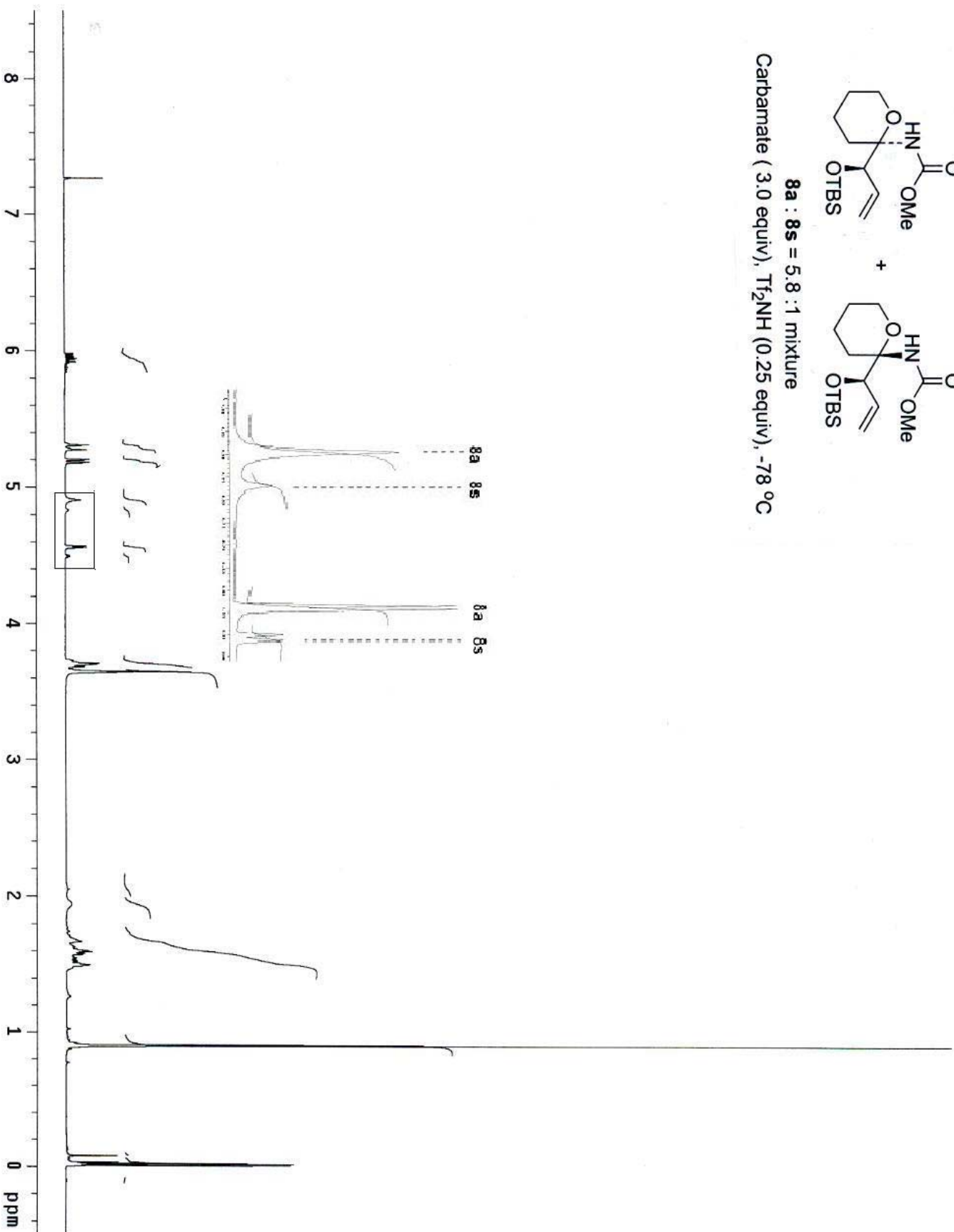
**8a : 8s = 2.3 : 1 mixture**

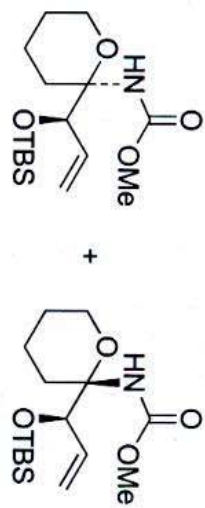
Carbamate ( 3.0 equiv), Tf<sub>2</sub>NH (0.1 equiv), -78 °C





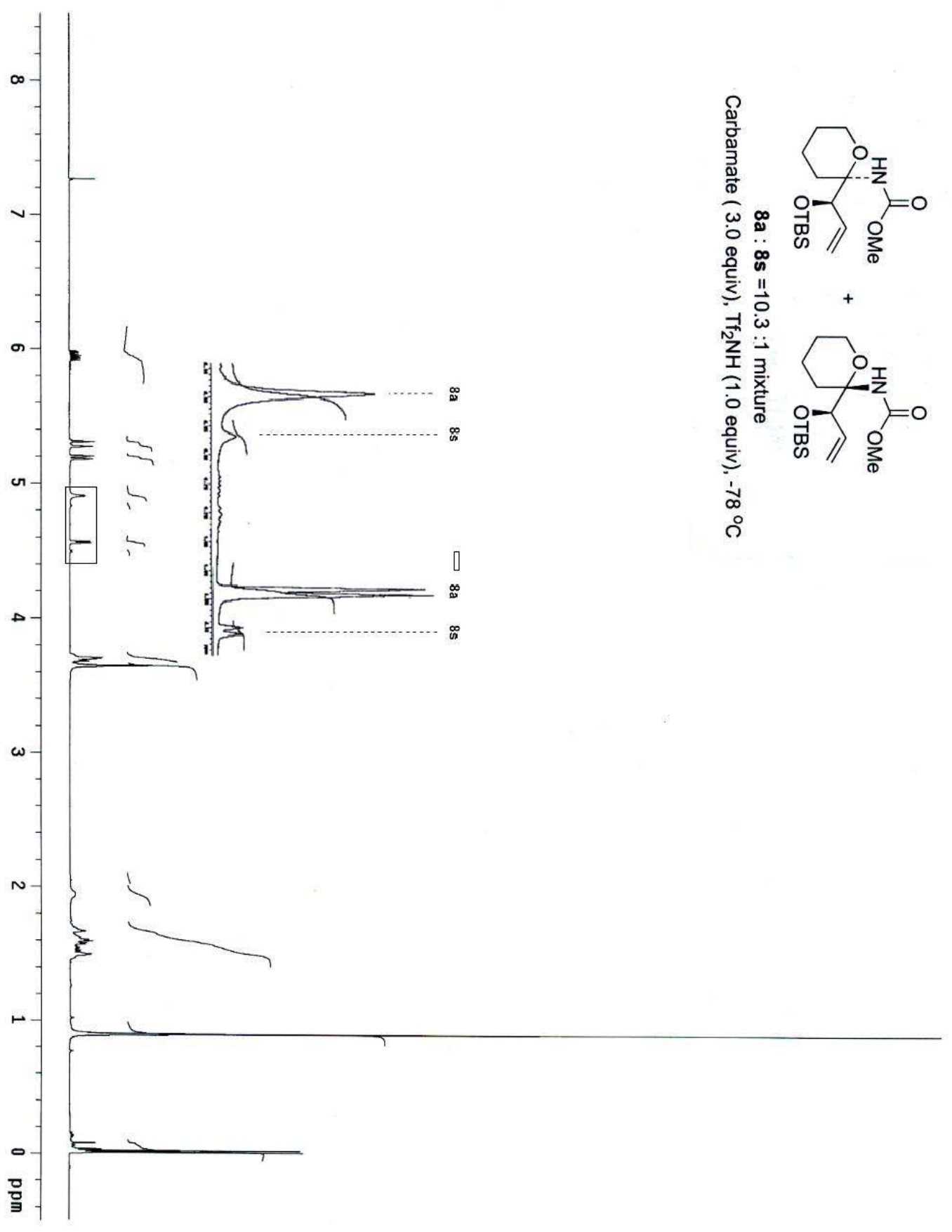
Carbamate (3.0 equiv), Tf<sub>2</sub>NH (0.25 equiv), -78 °C

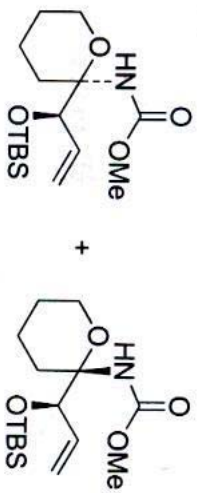




**8a : 8s = 10.3 : 1 mixture**

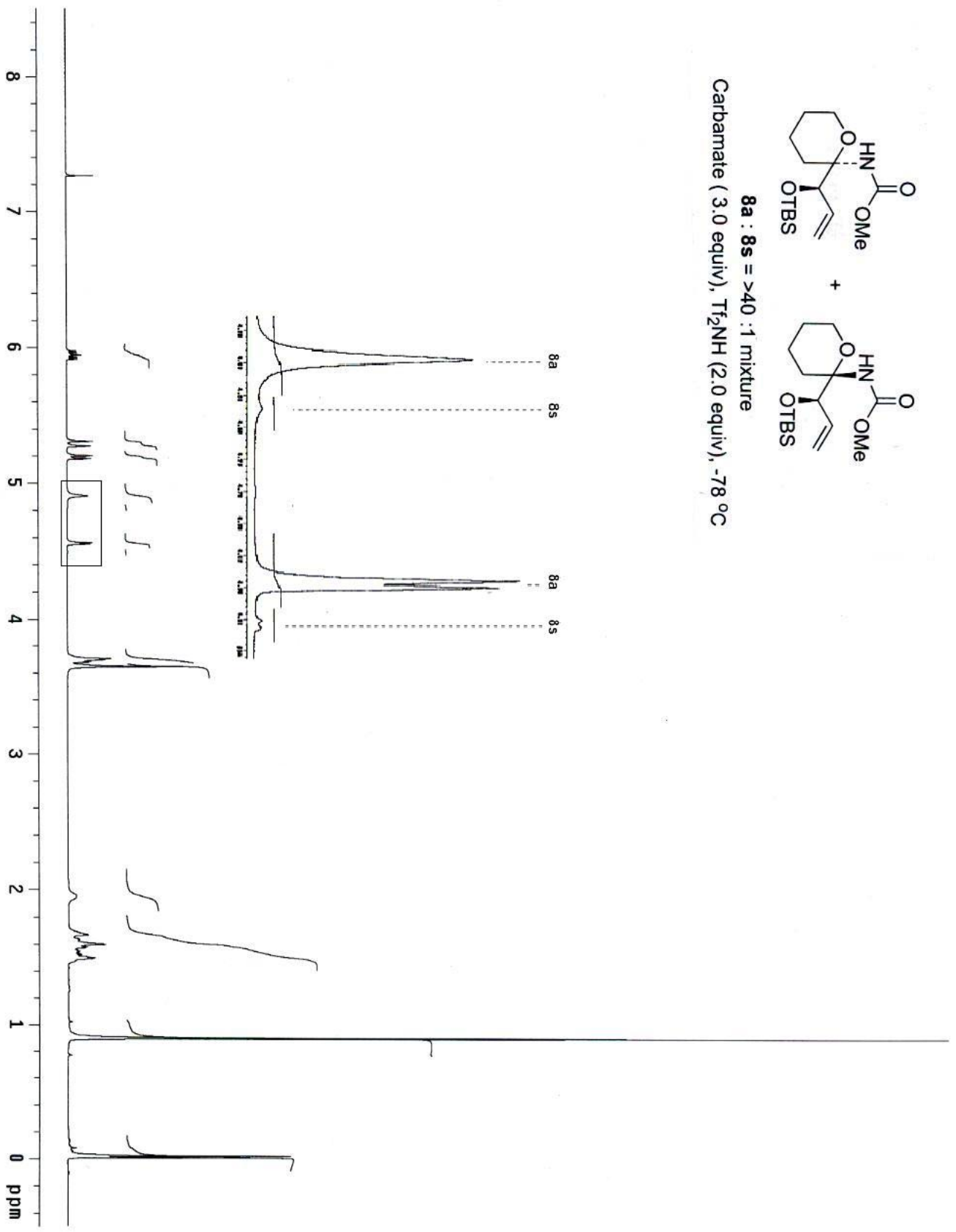
Carbamate ( 3.0 equiv), Tf<sub>2</sub>NH ( 1.0 equiv), -78 °C

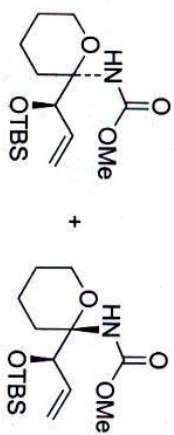




**8a : 8b = >40 : 1 mixture**

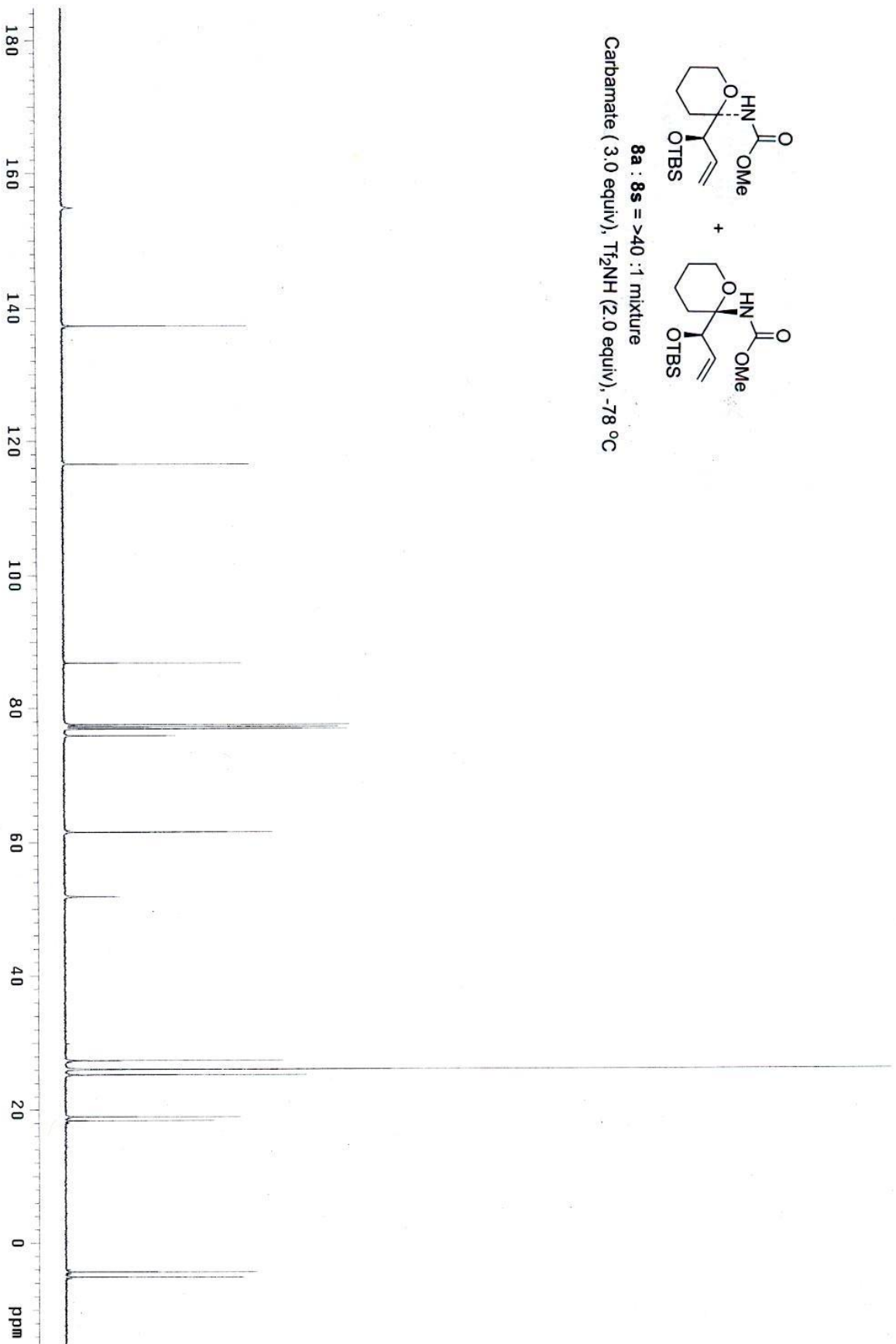
Carbamate (3.0 equiv), Tf<sub>2</sub>NH (2.0 equiv), -78 °C





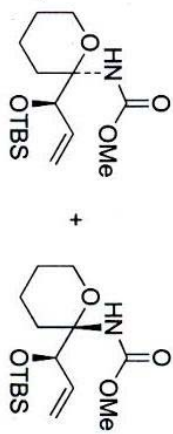
**8a** : **8s** = >40 : 1 mixture

Carbamate (3.0 equiv), Tf<sub>2</sub>NH (2.0 equiv), -78 °C









Carbamate (3.0 equiv),  $\text{Ti}_2\text{NH}$  (3.0 equiv),  $-78^\circ\text{C}$

