

Supporting Information

for

Chemoenzymatic synthesis of tumor-associated antigen N3 minor octasaccharide

Zhipeng Han^a, Congcong Chen^a, Caicai Meng^a, Tian Gao^a, Peng Peng^a, Xi Chen^b, Fengshan Wang^{*a,c}, and Hongzhi Cao^{*a,d}

^aNational Glycoengineering Research Center, Shandong Provincial Key Laboratory of Carbohydrate Chemistry and Glycobiology, and School of Pharmaceutical Sciences, Shandong University, Jinan 250012, China.

^bDepartment of Chemistry, University of California, One Shields Avenue, Davis, CA 95616, USA

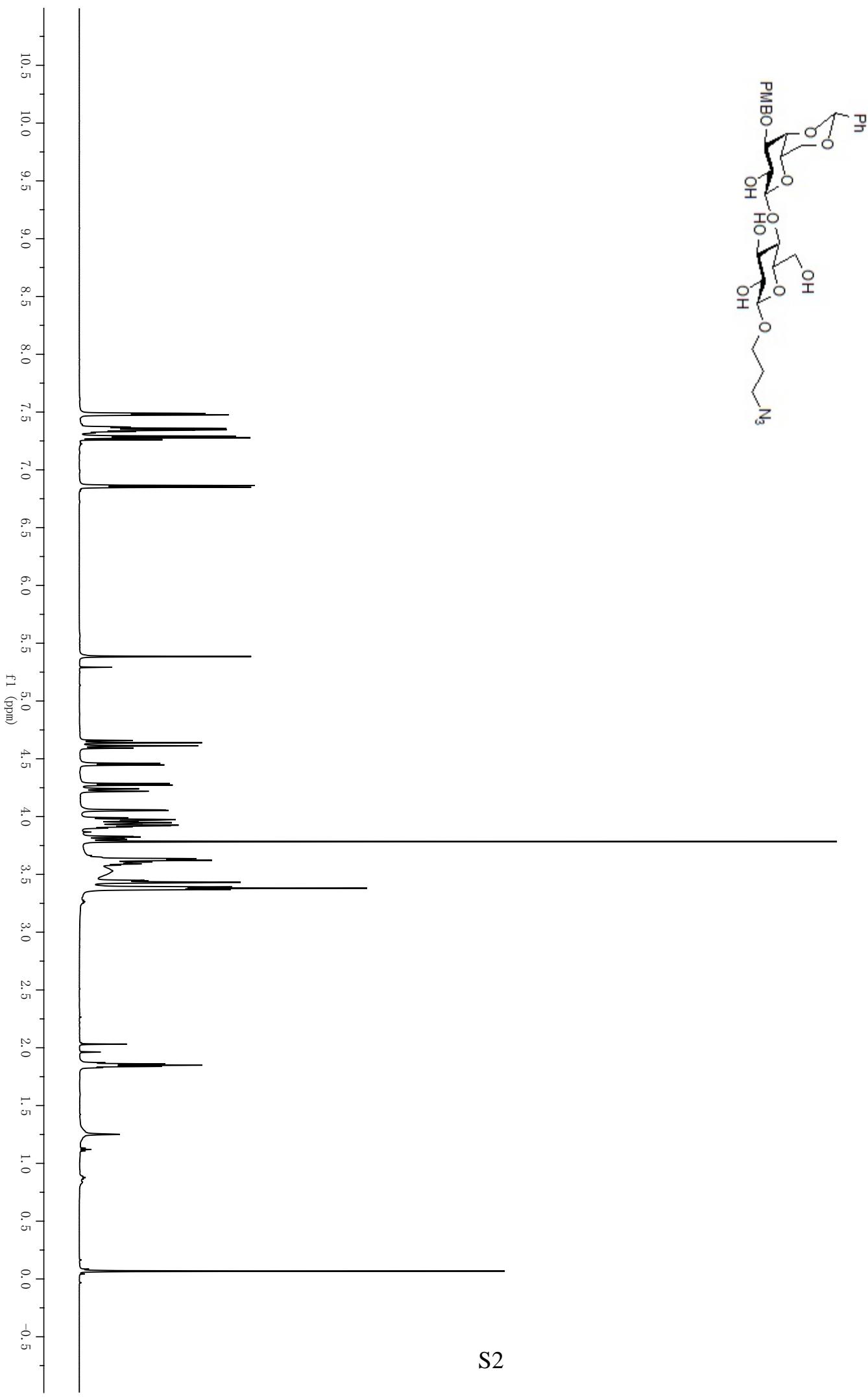
^cKey Laboratory of Chemical Biology of Natural Products (Ministry of Education), Institute of Biochemical and Biotechnological Drugs, Shandong University, Jinan 250012, China.

^dState Key Laboratory of Microbial Technology, Shandong University, Jinan 250100, China.

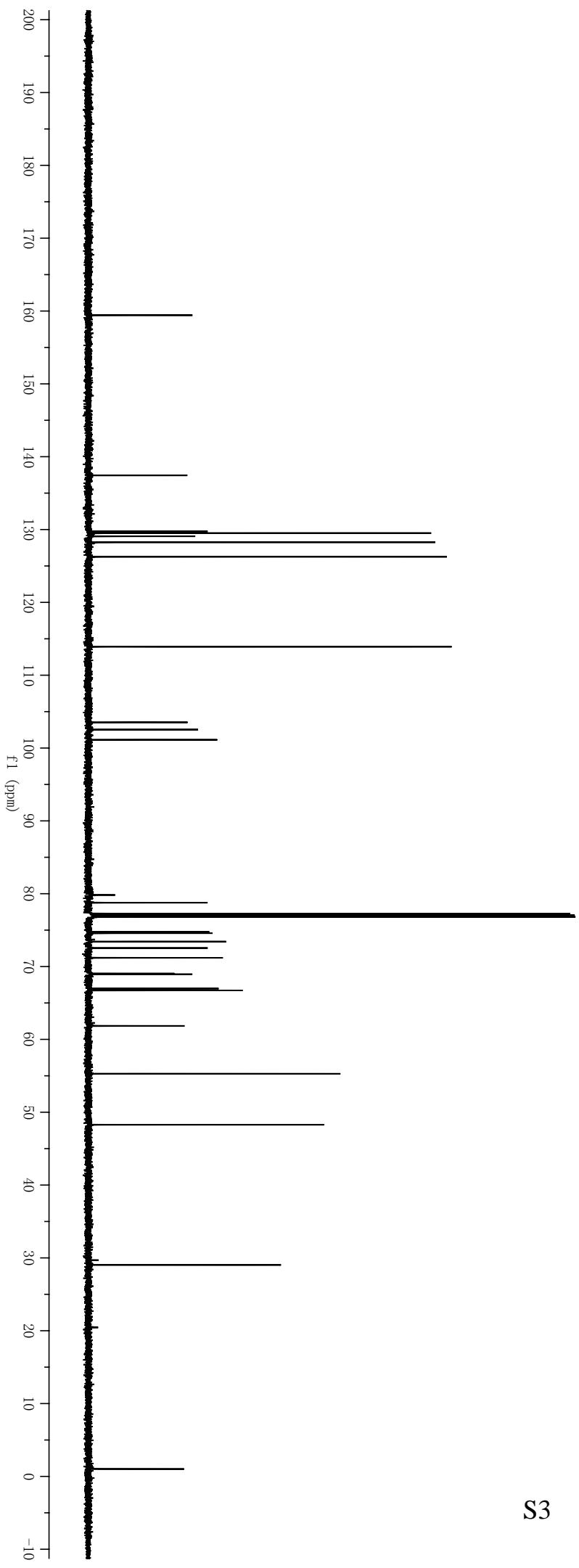
Corresponding authors: Email: hzcao@sdu.edu.cn (H. Cao) or fswang@sdu.edu.cn (F. Wang).

Table of Contents

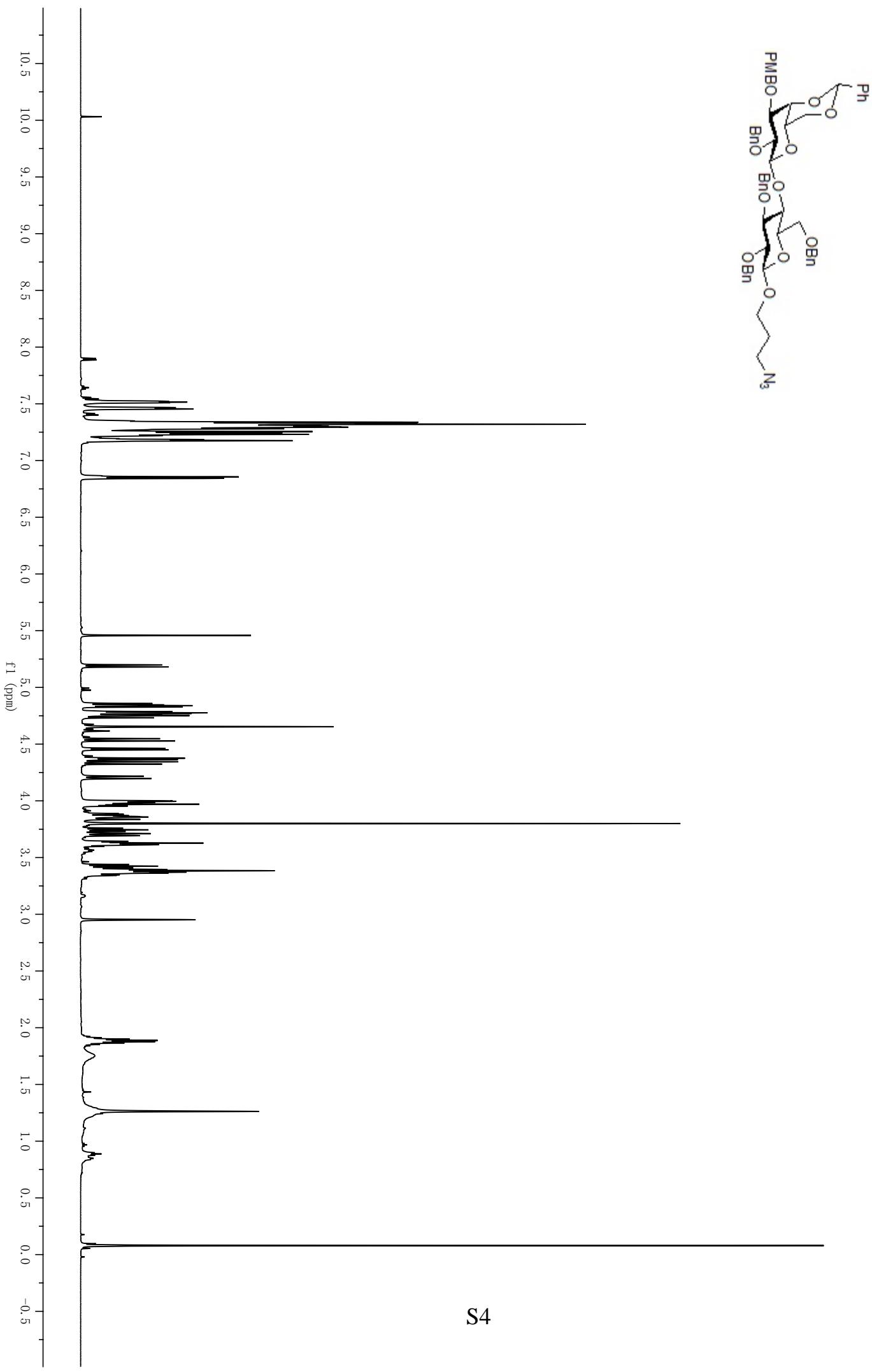
¹ H NMR and ¹³ C NMR spectra for compound 10.....	S2-S3
¹ H NMR and ¹³ C NMR spectra for compound 11.....	S4-S5
¹ H NMR ¹³ C NMR spectrum of compound 12.....	S6-S7
¹ H NMR and ¹³ C NMR spectra for compound 7.....	S8-S9
¹ H NMR and ¹³ C NMR spectra for compound 13.....	S10-S11
¹ H NMR and ¹³ C NMR spectra for compound 5.....	S12-S13
¹ H NMR and ¹³ C NMR spectra for compound 4.....	S14-S15
¹ H NMR and ¹³ C NMR spectra for compound 3.....	S16-S17



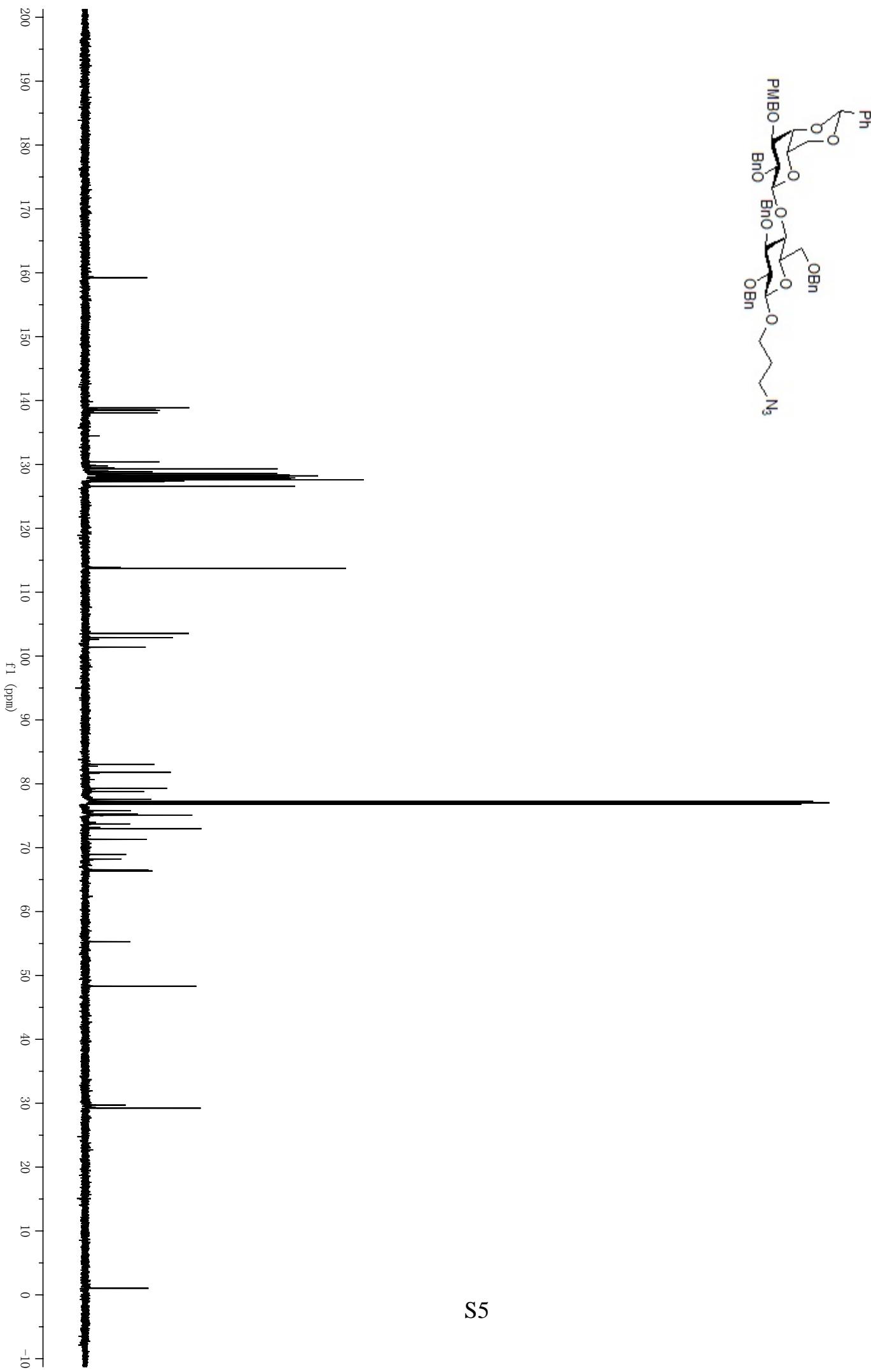
S2



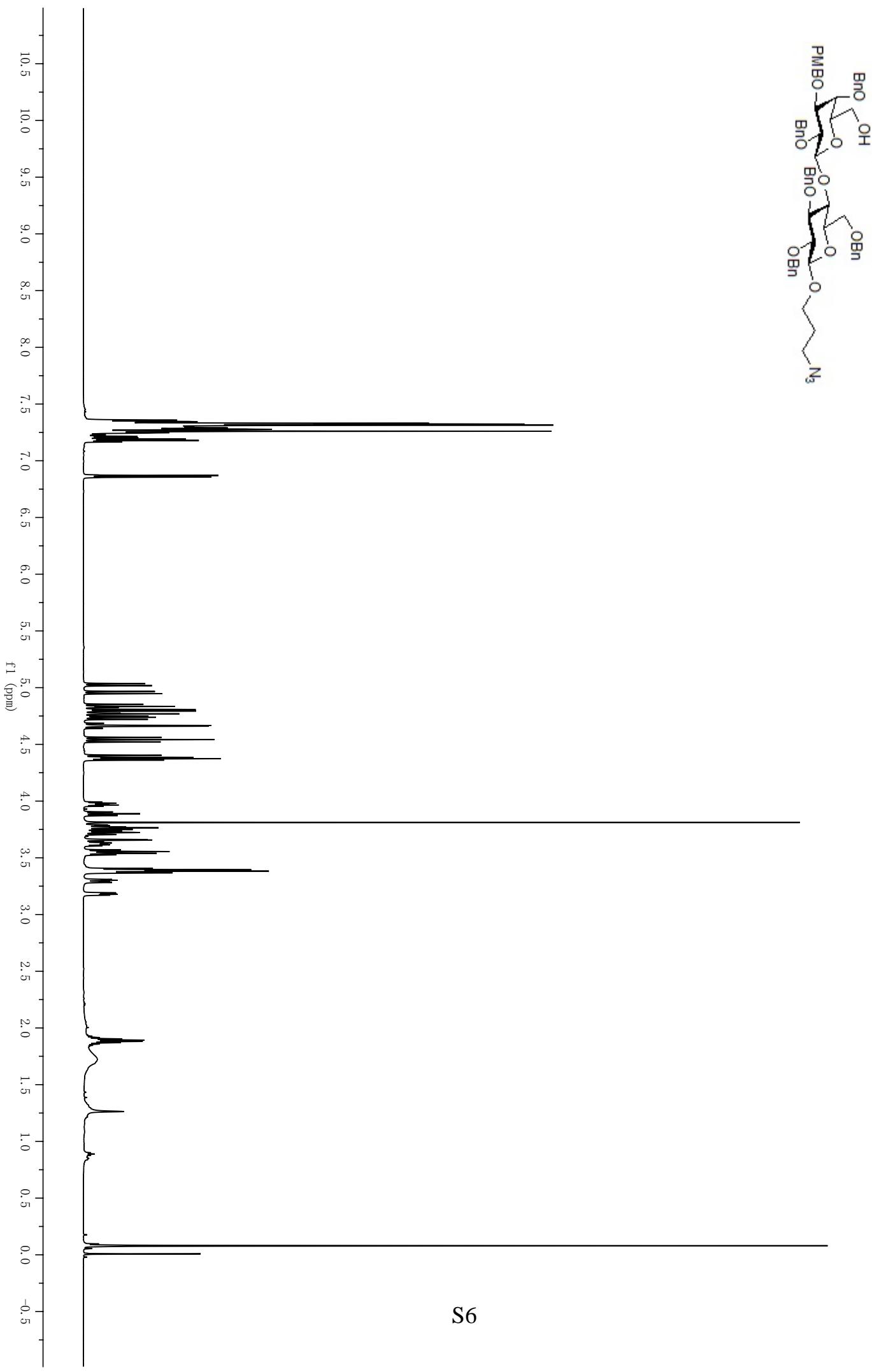
S3



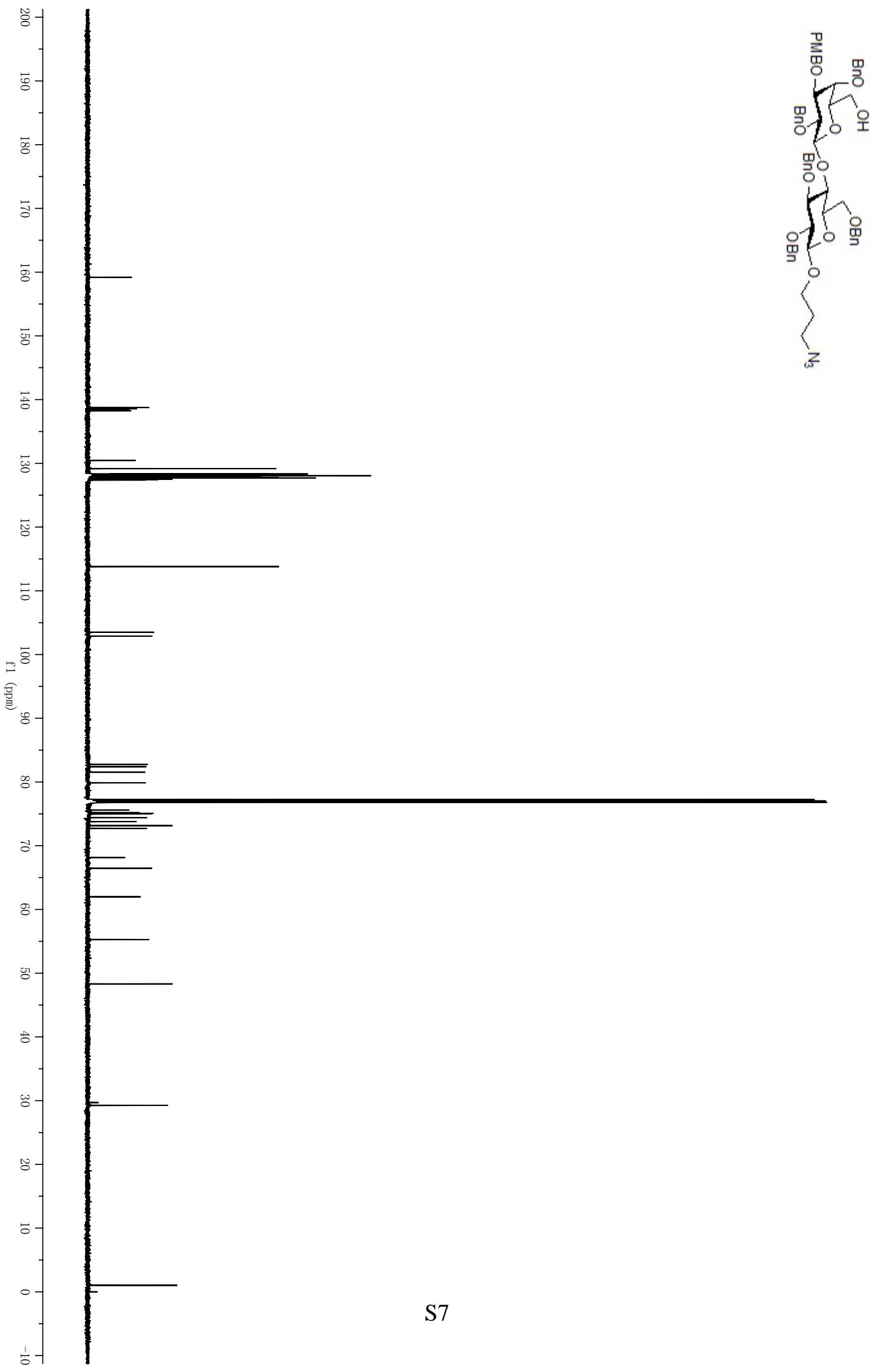
S4

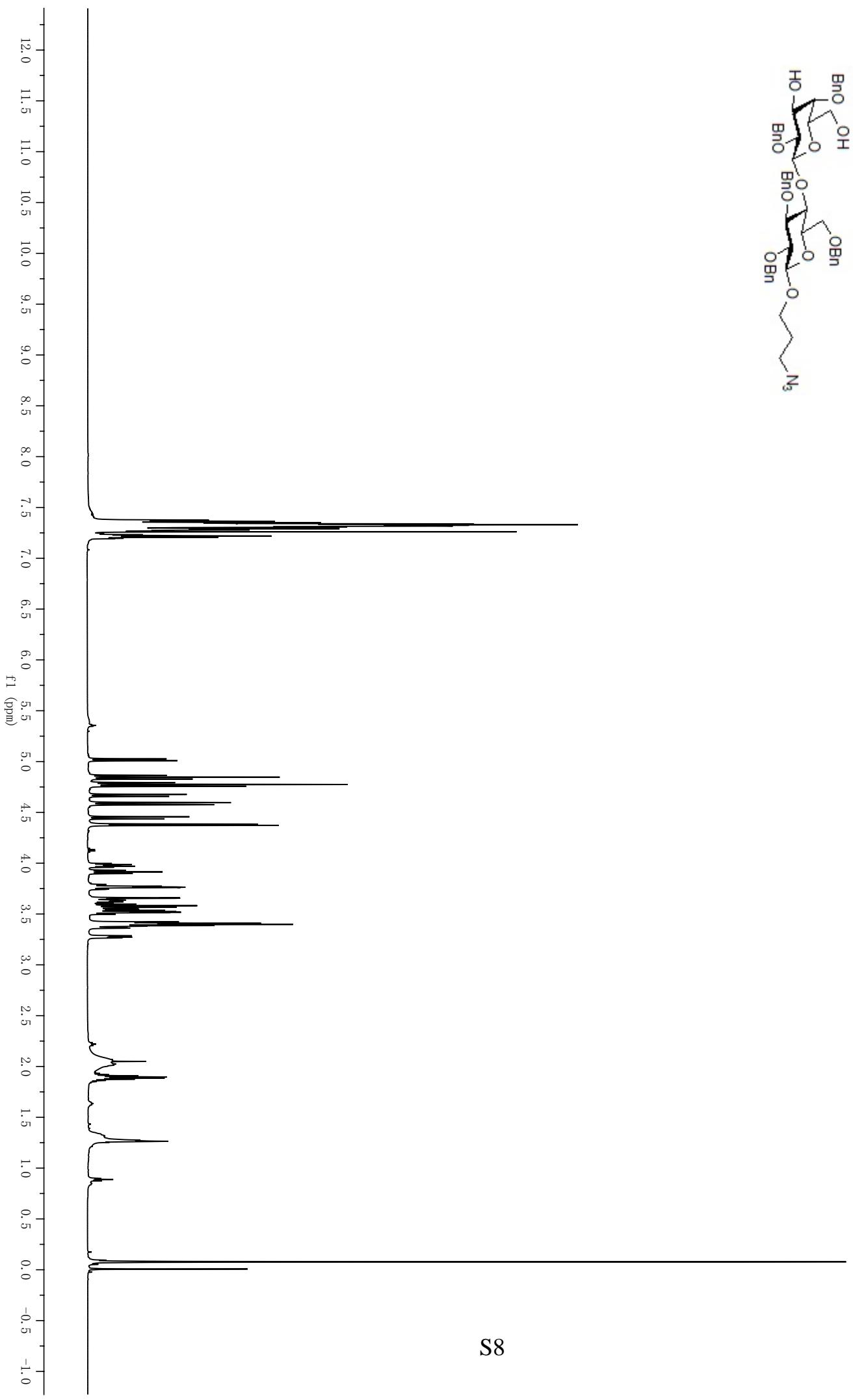


S5

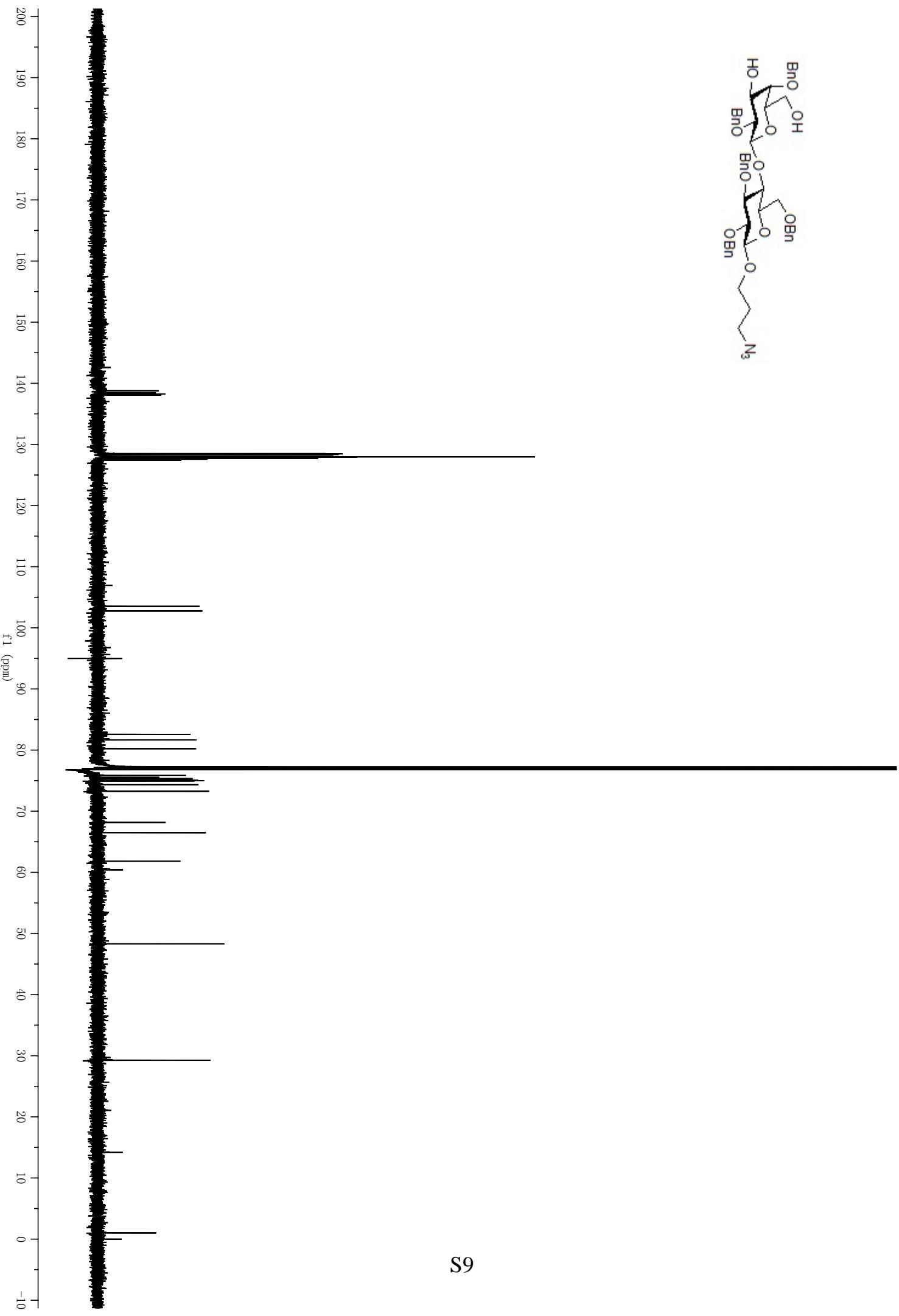


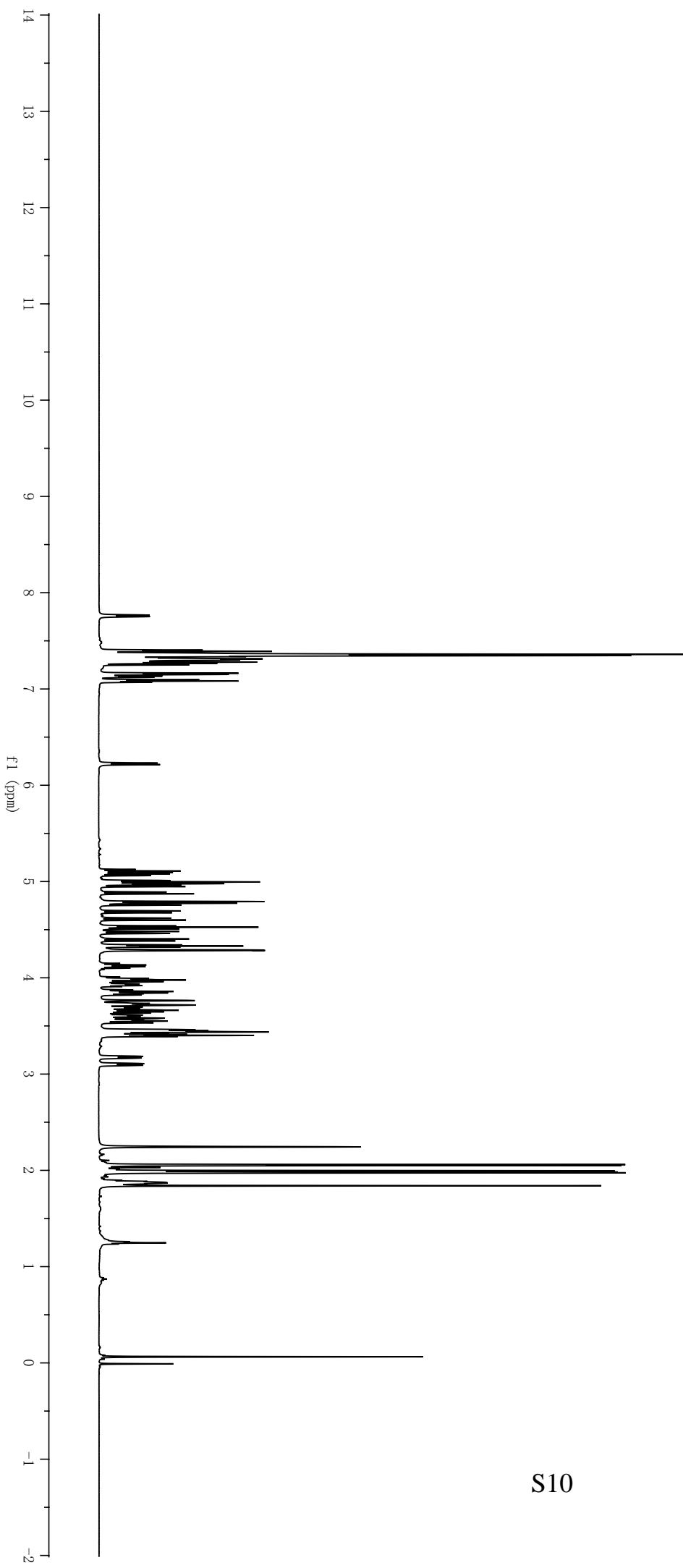
S6



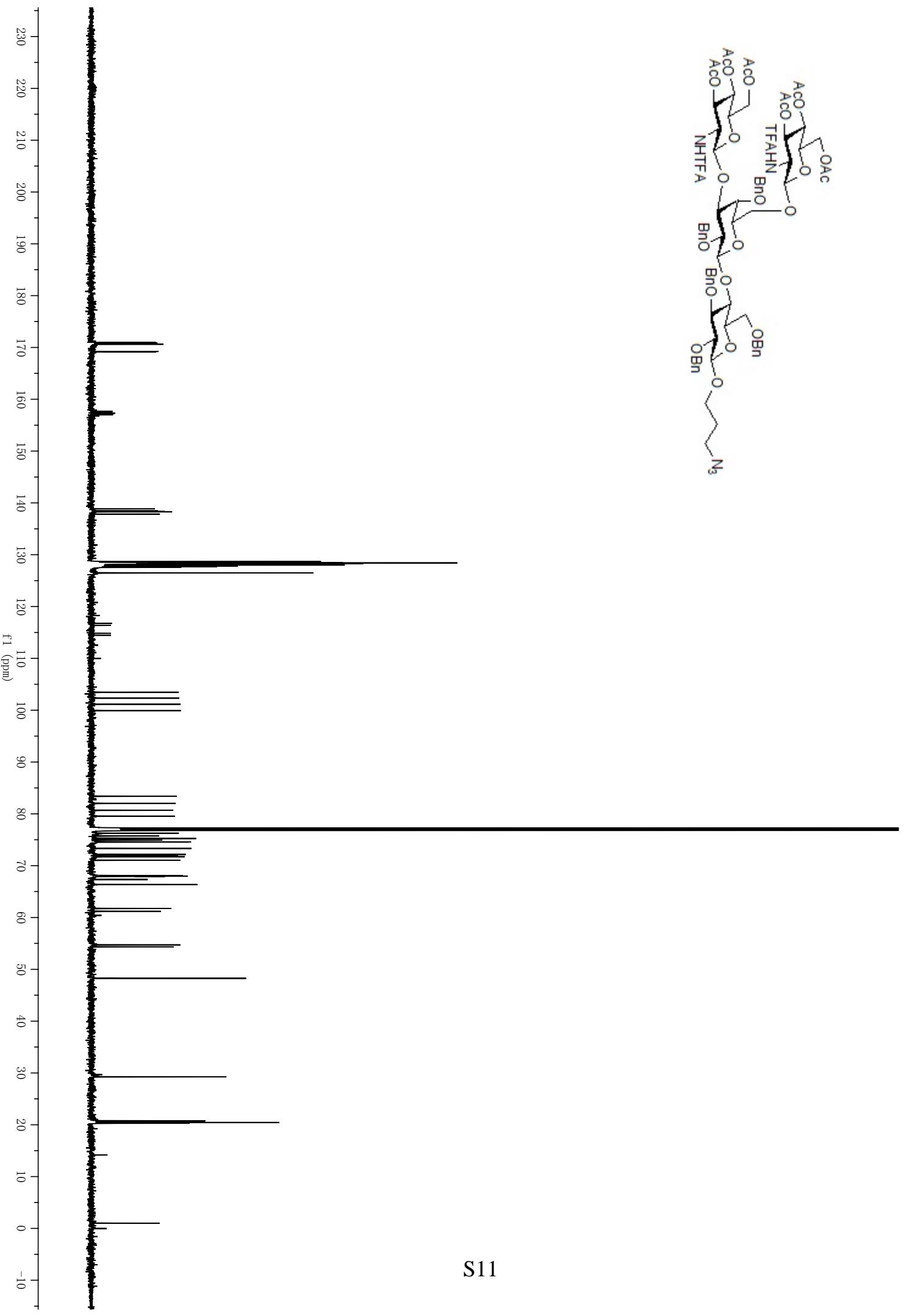


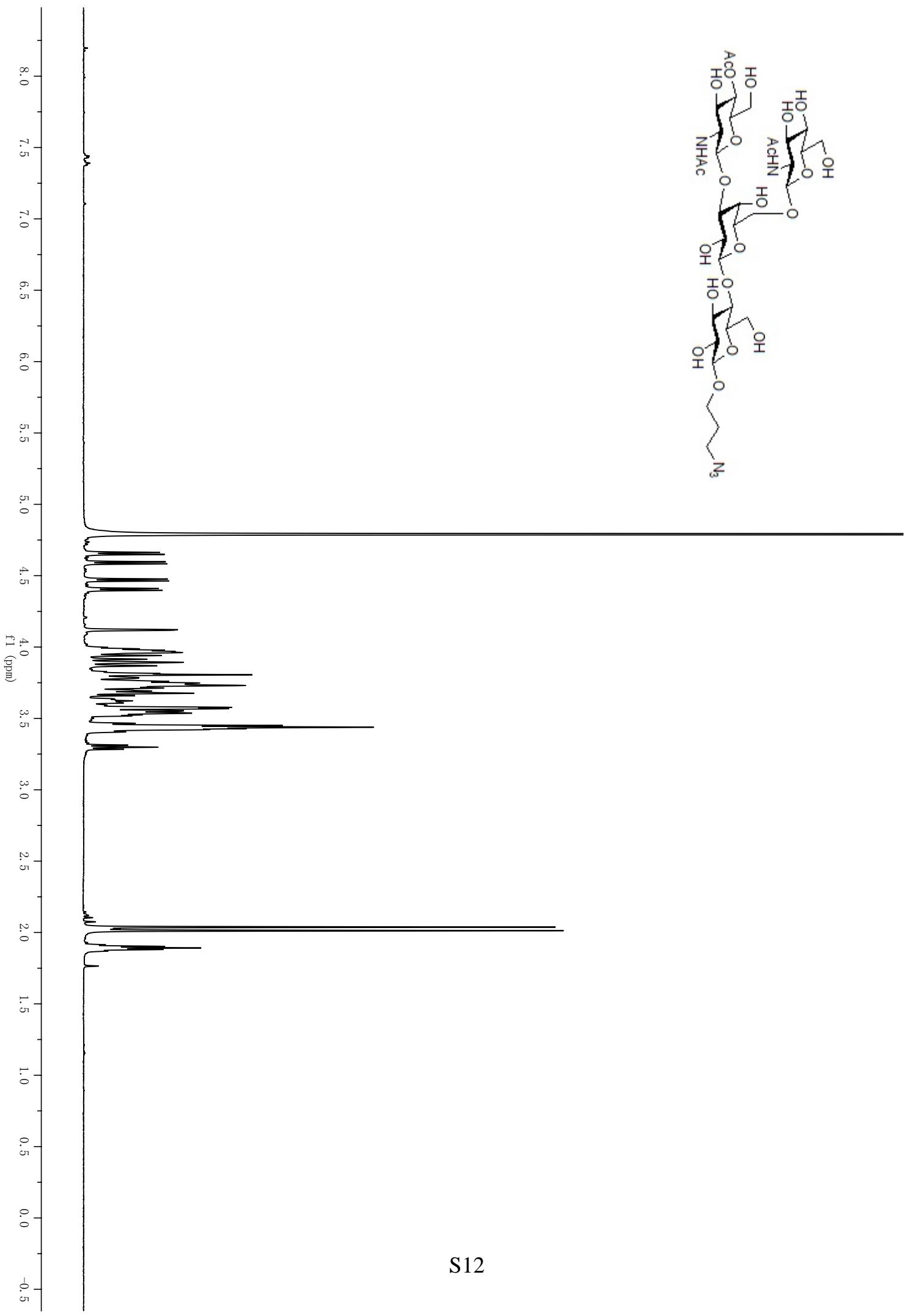
S8



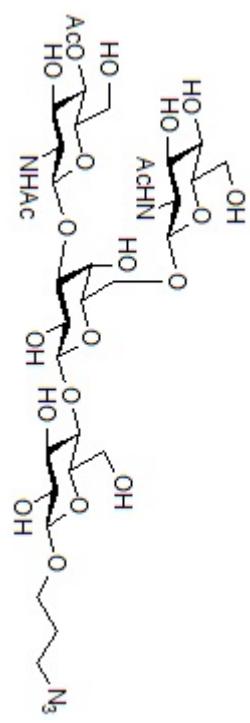
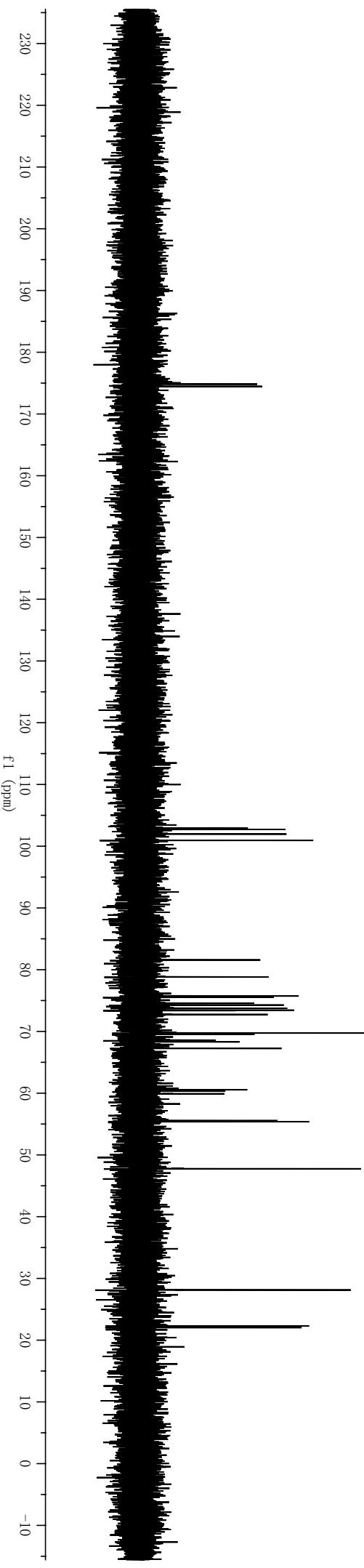


S10

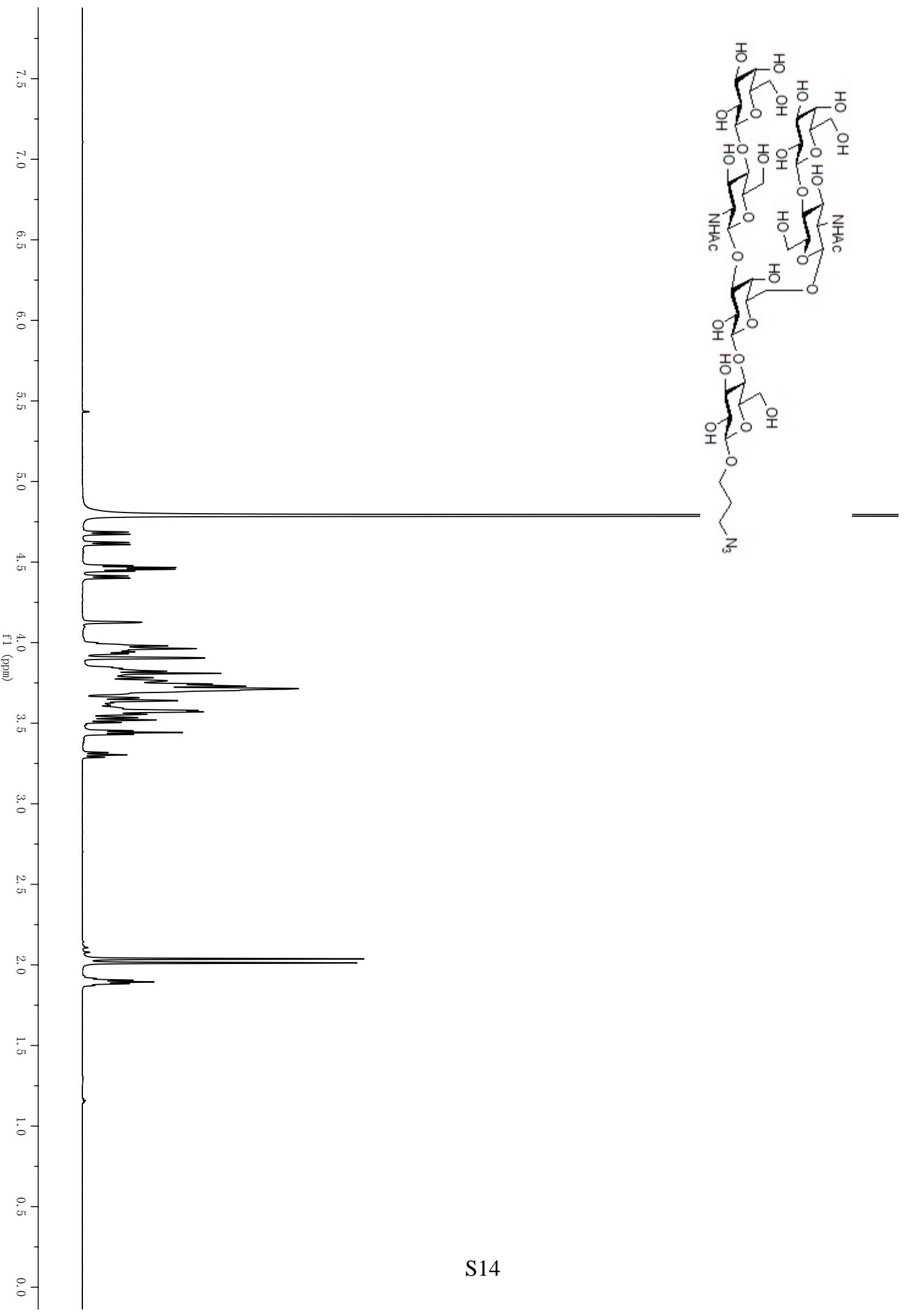


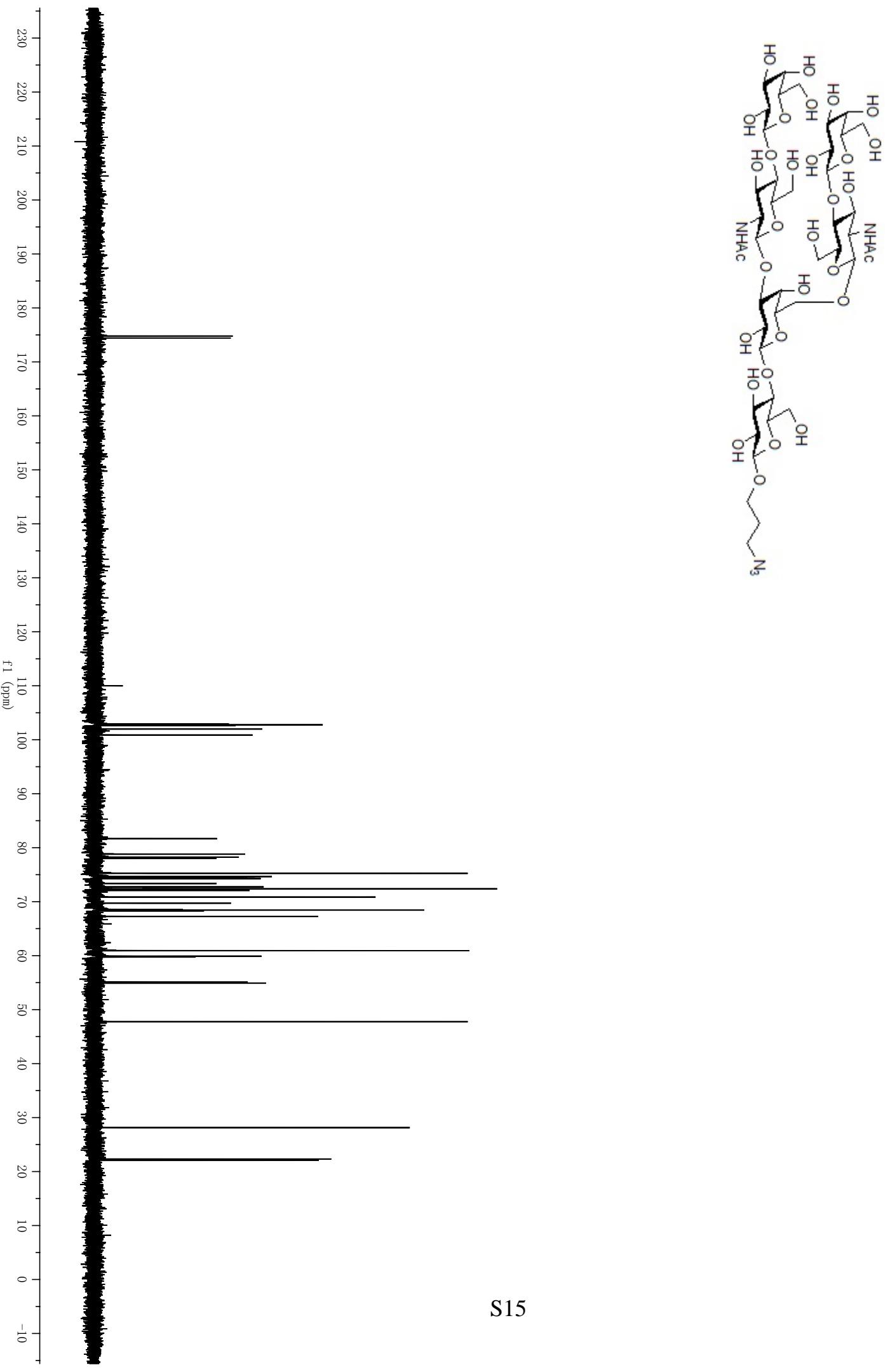


S12



S13





S15

