

## **Supporting Information**

### **Acid-Mediated *N*-Iodosuccinimide-Based Thioglycoside Activation for the Automated Solution-Phase Synthesis of $\alpha$ -1,2-linked-Rhamnopyranosides**

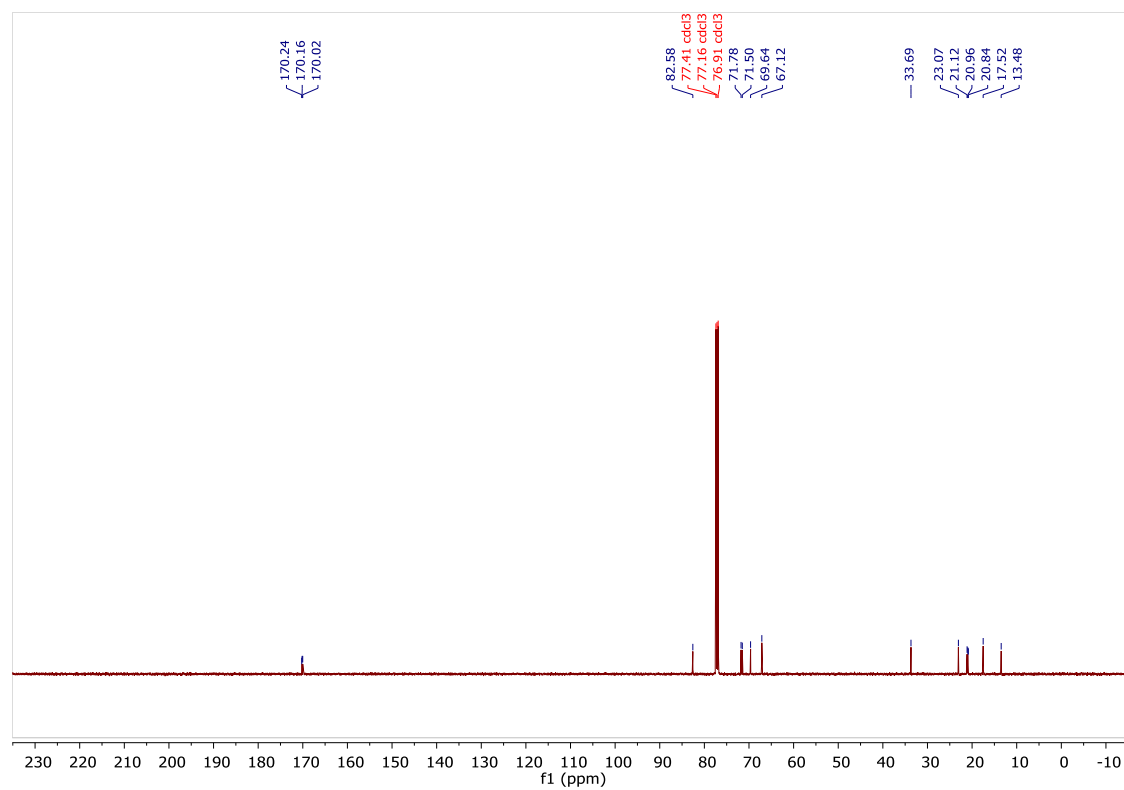
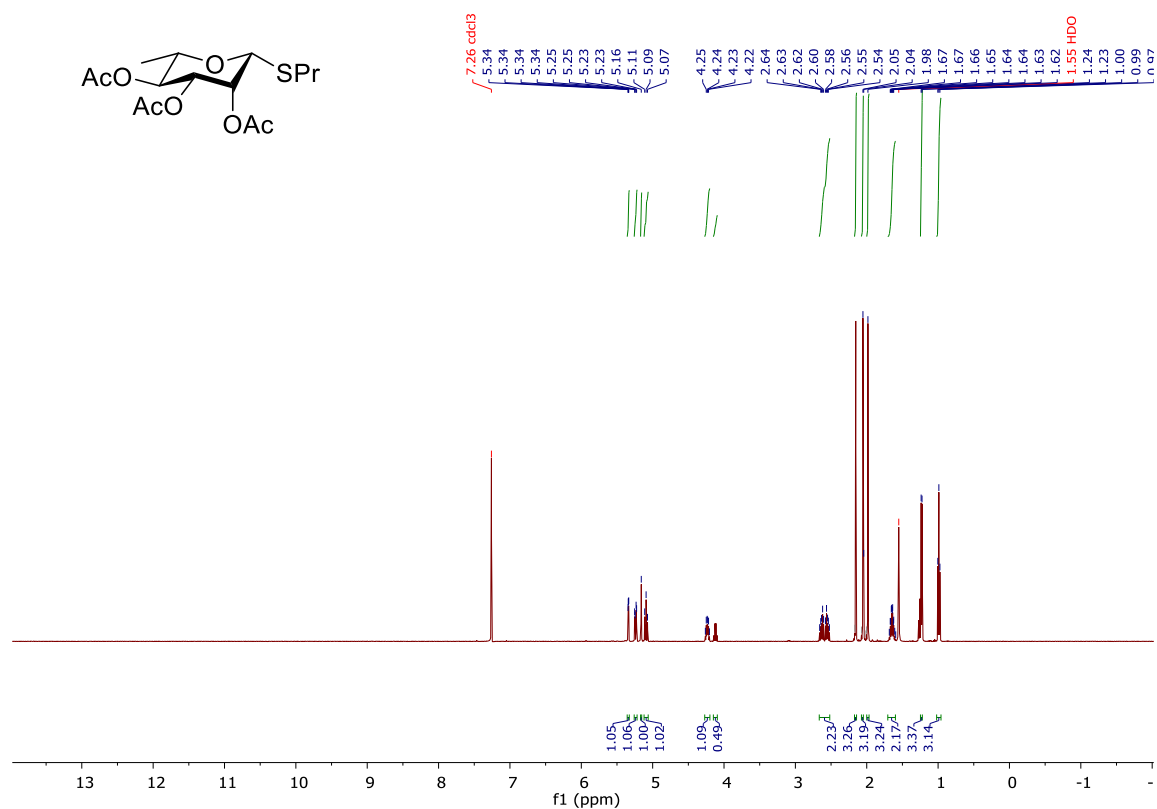
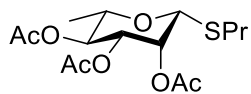
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<sup>1</sup>Indiana University Bloomington, 800 E. Kirkwood Ave, Bloomington, IN, USA, 47408

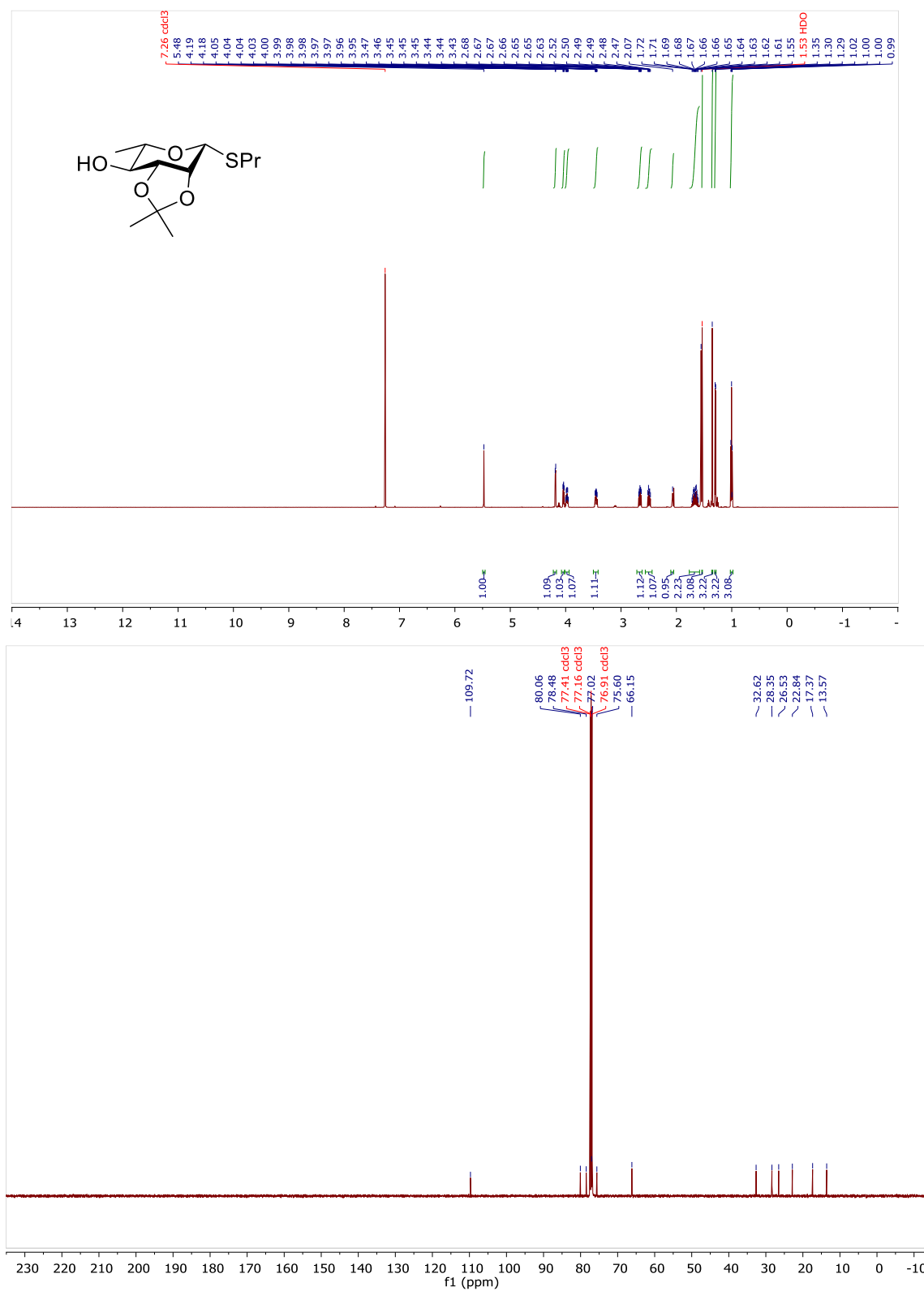
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\* Corresponding author

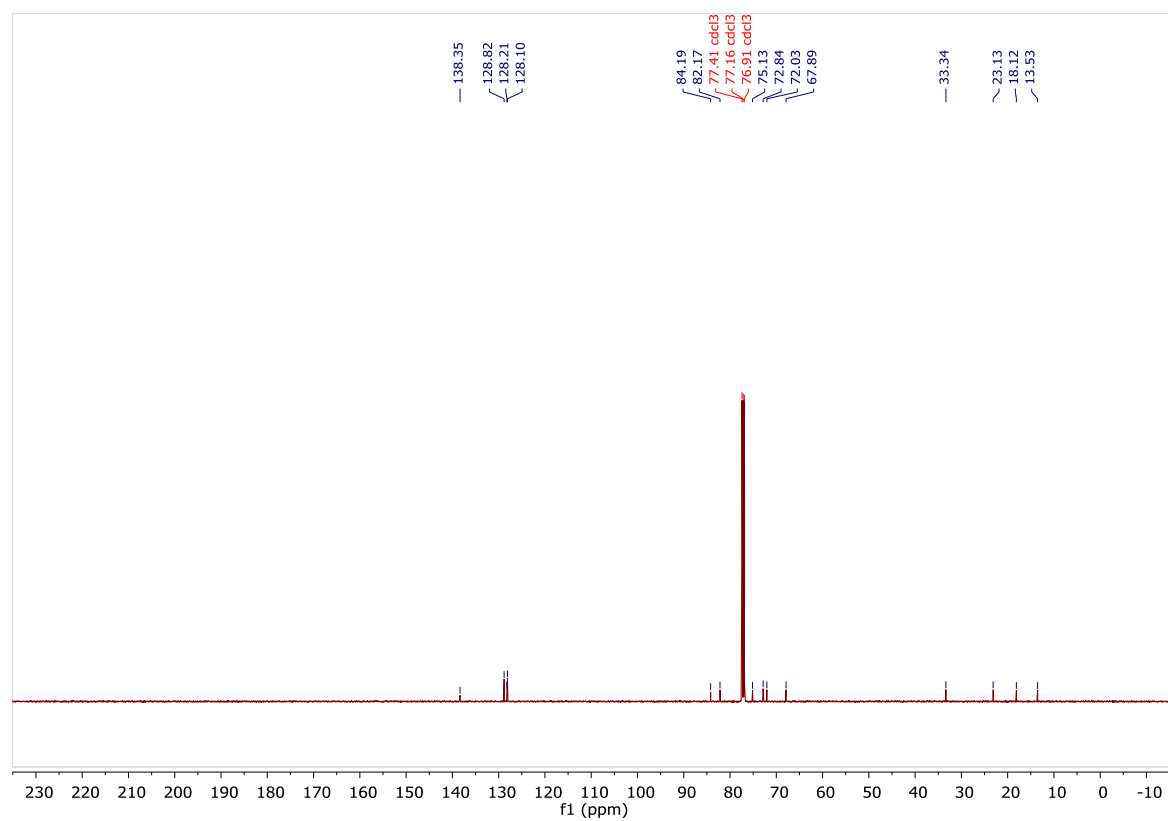
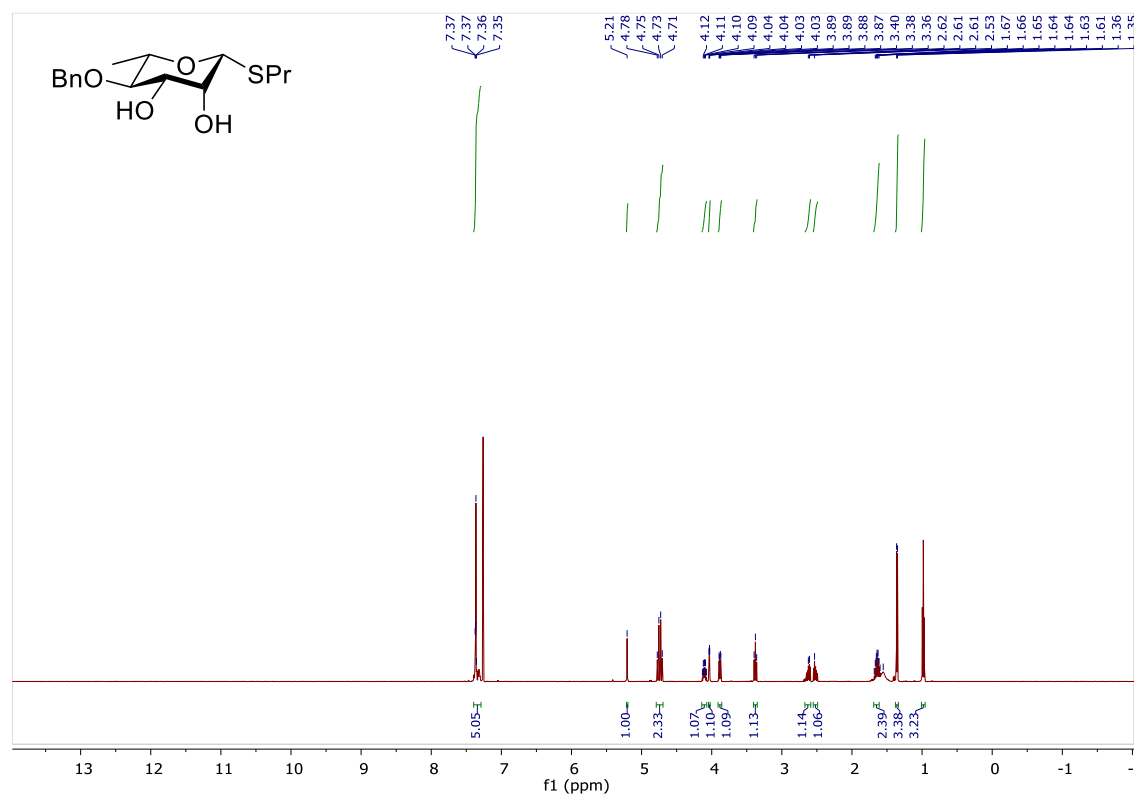
# Propyl 2, 3, 4-tri-*O*-acetyl-1-thio- $\beta$ - L-rhamnopyranoside (2)



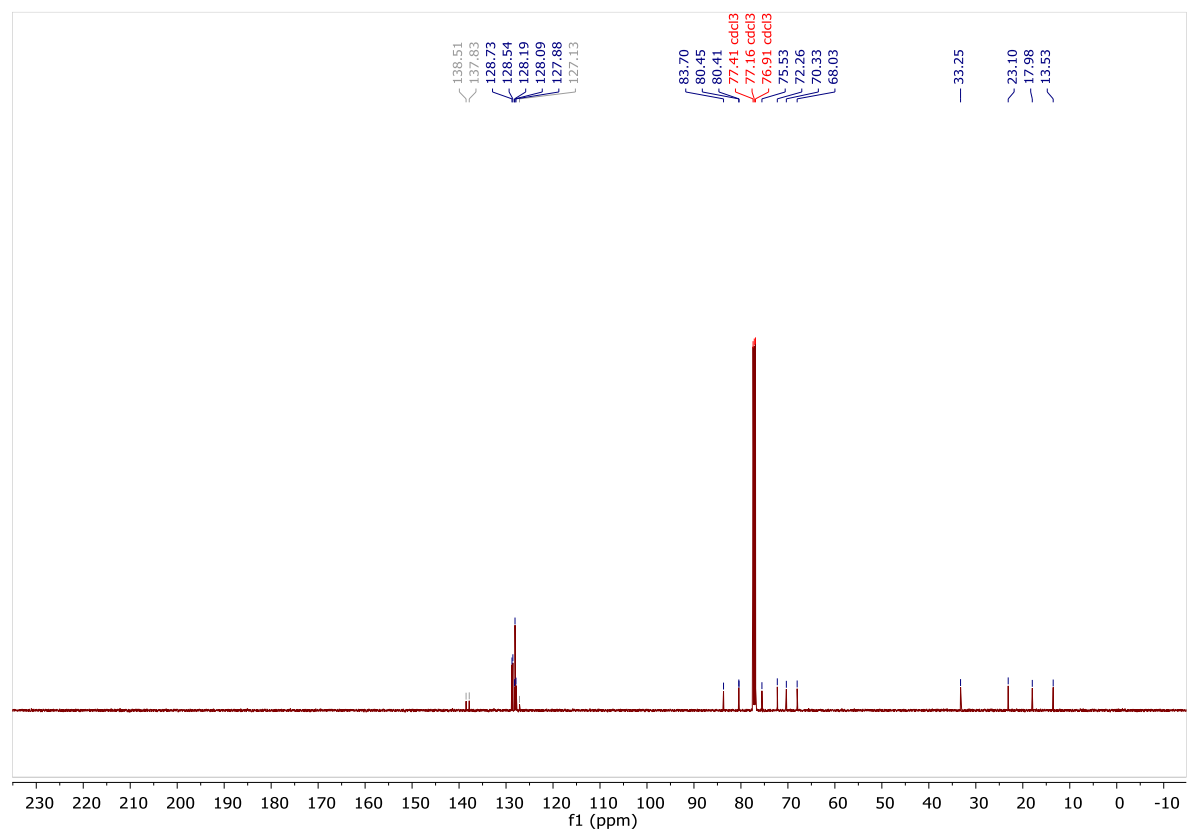
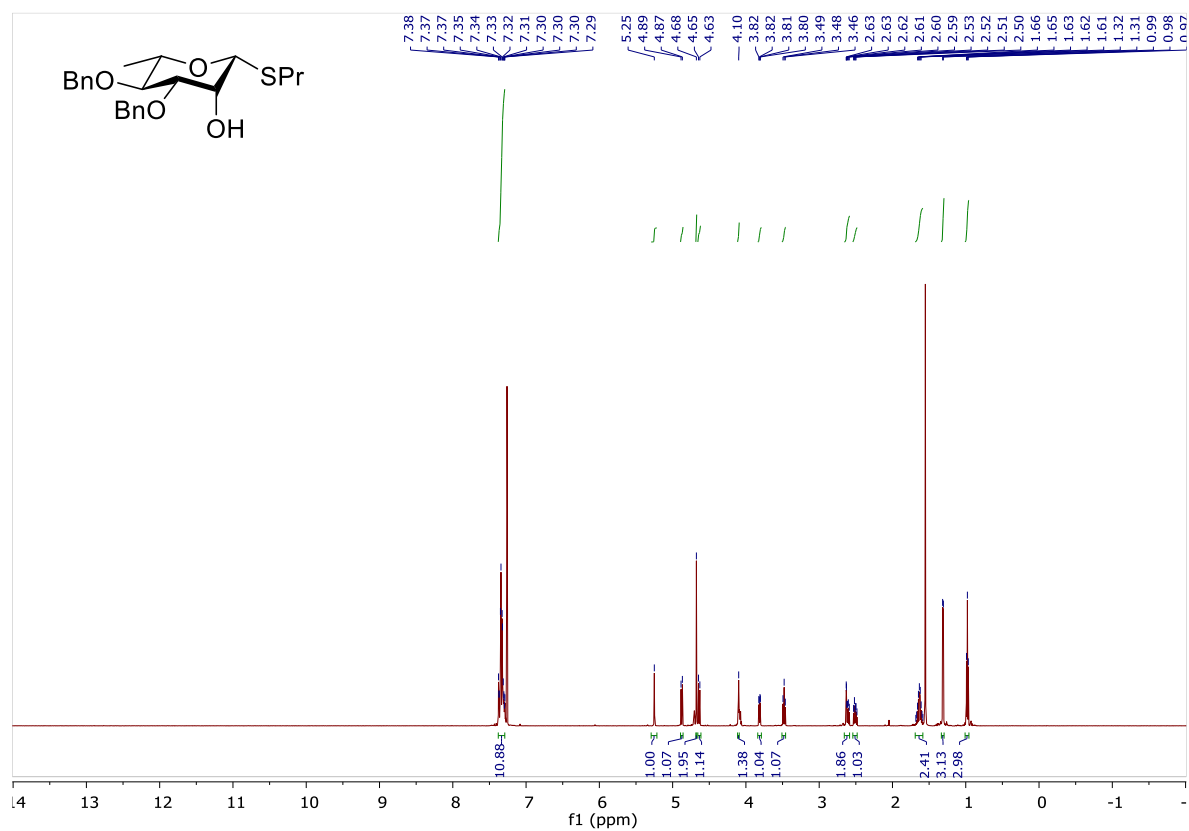
# Propyl 2,3-*O*-isopropylidene-1-thio- $\beta$ - L-rhamnopyranoside (3)



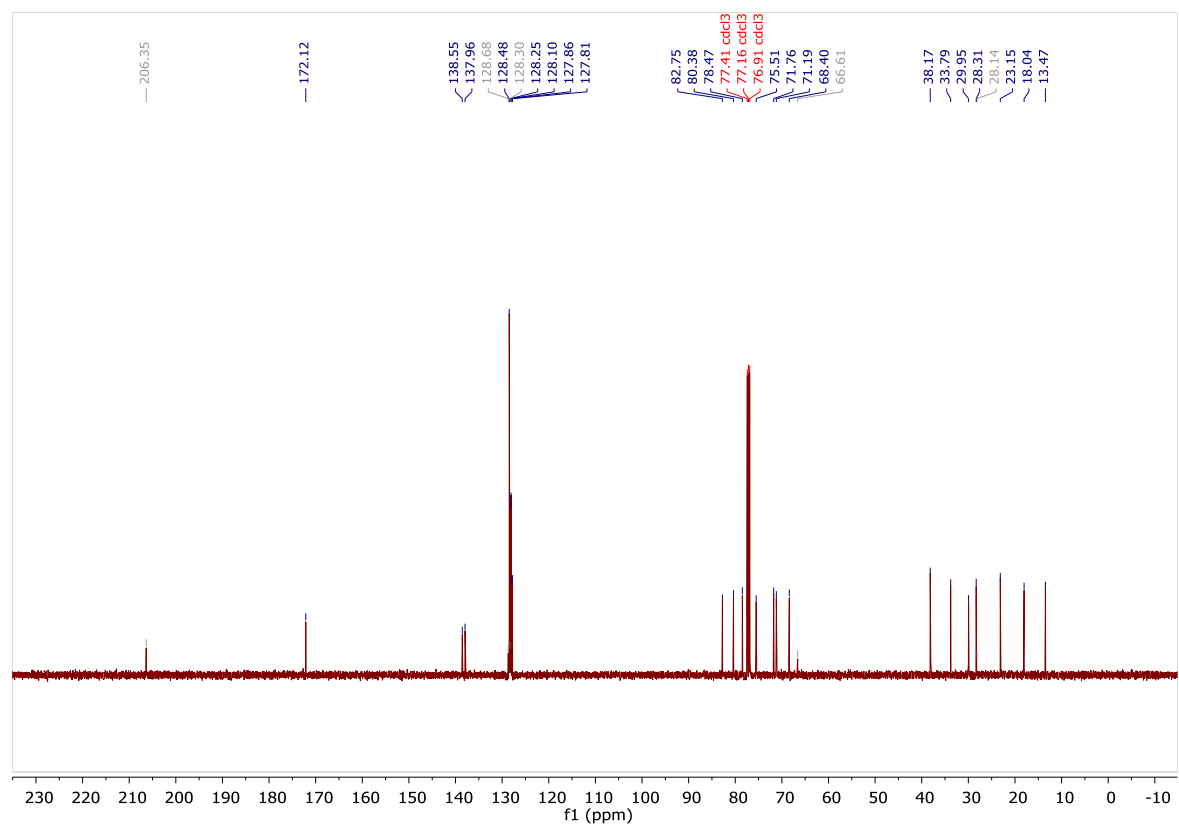
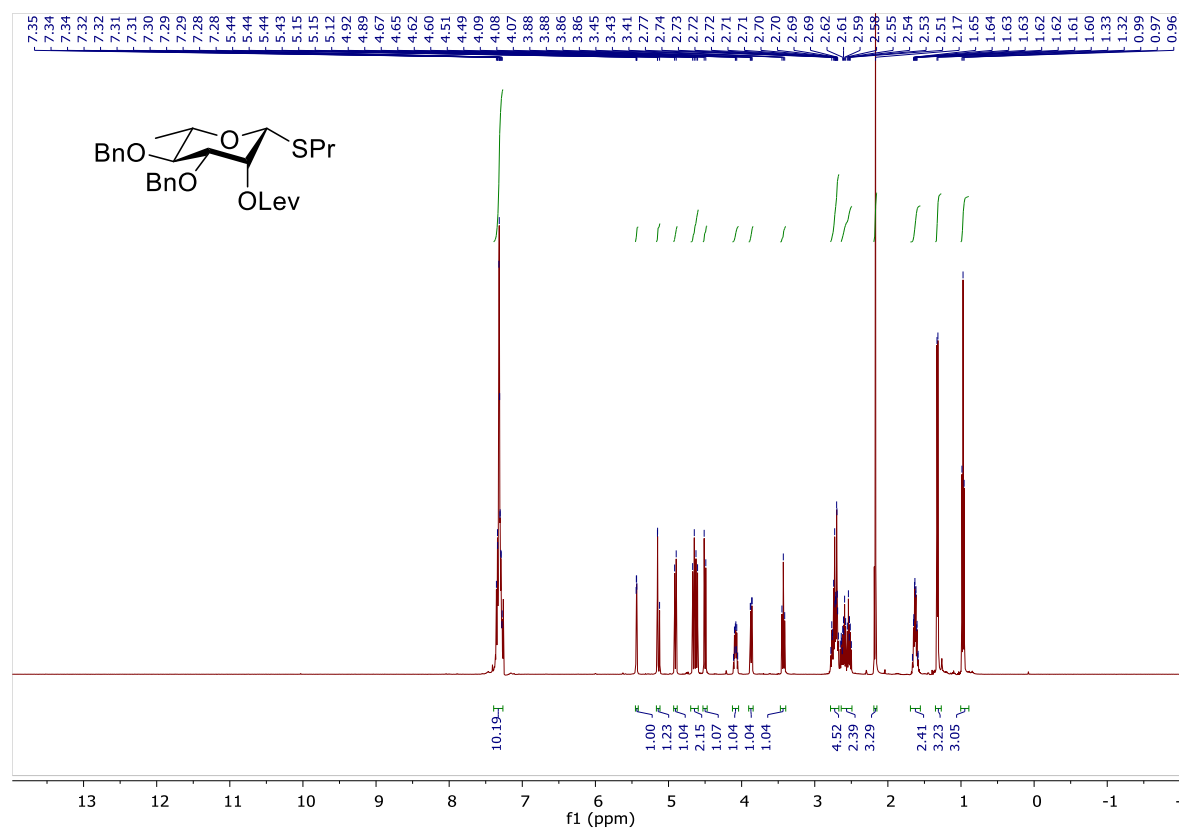
# Propyl 4-O-benzyl-1-thio- $\beta$ - L-rhamnopyranoside (4)



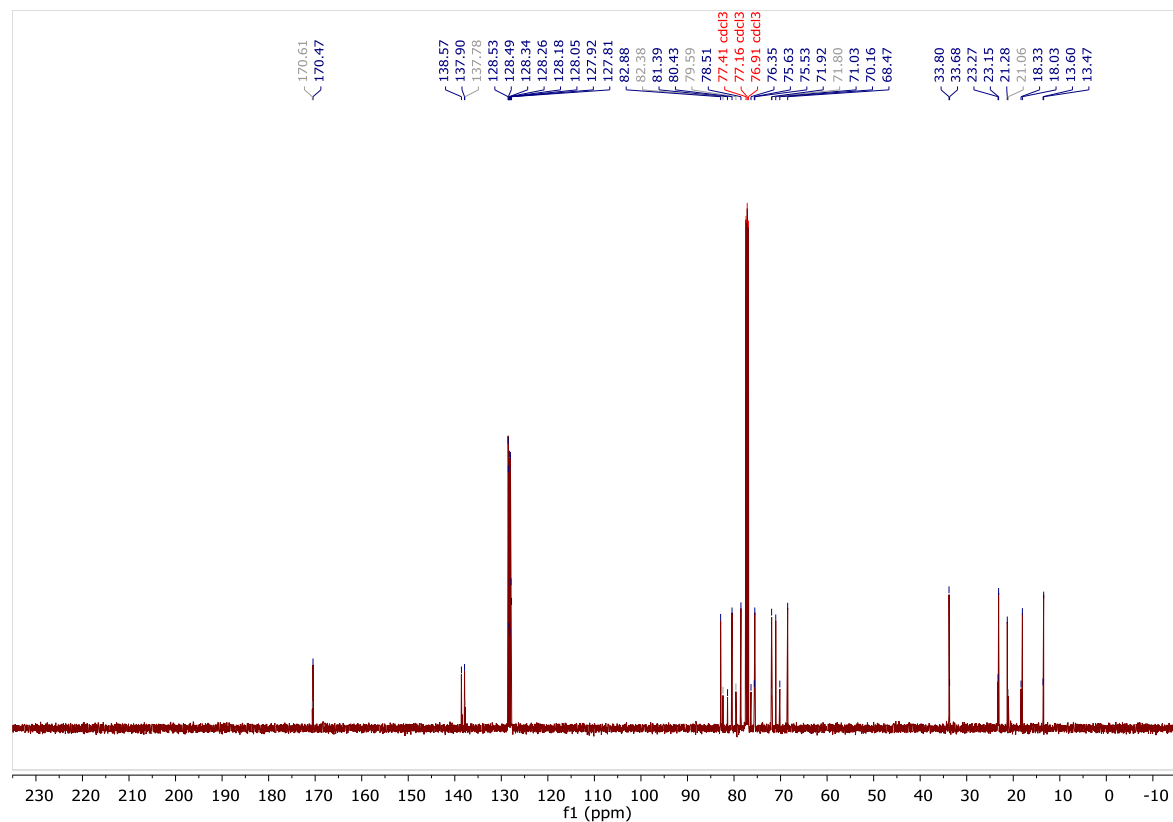
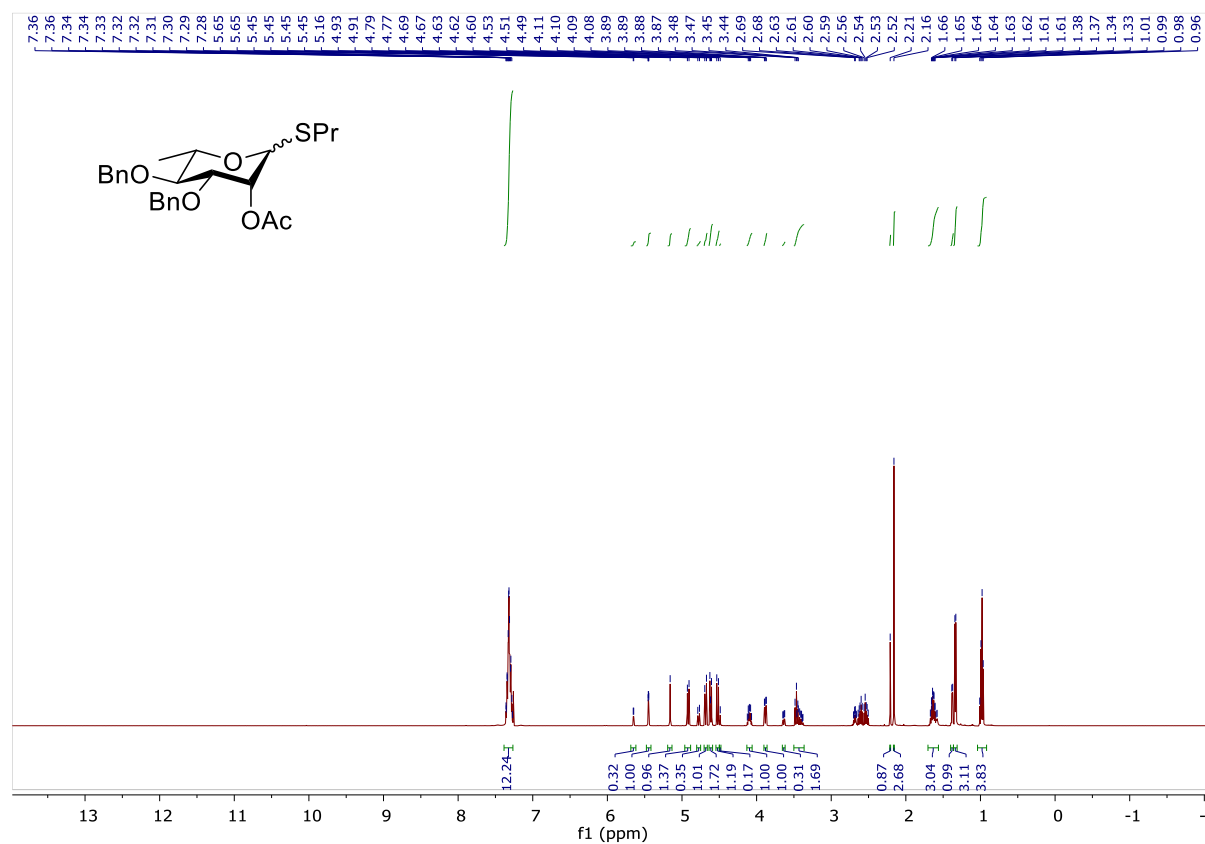
**Propyl 3, 4-di-O-benzyl-1-thio- $\beta$ - L-rhamnopyranoside (5)**



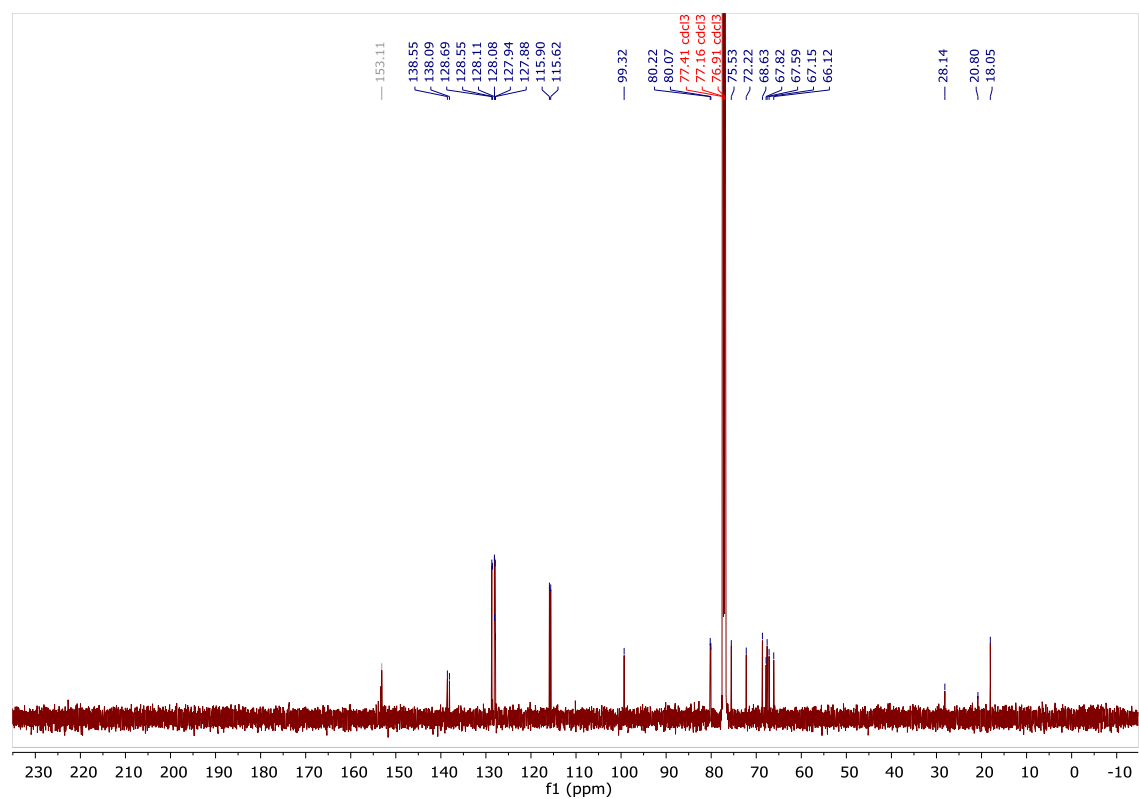
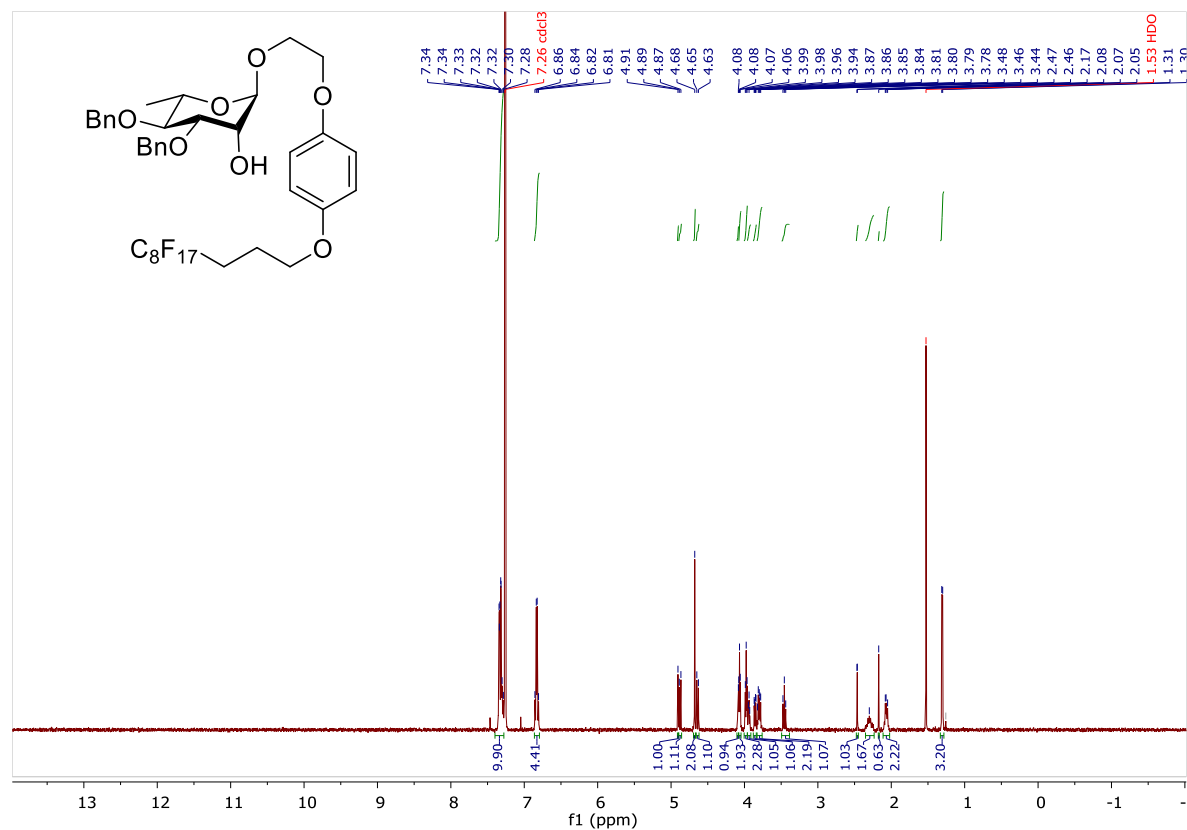
# Propyl 3, 4-di-O-benzyl-2-O-levolinoyl-1-thio-β- L-rhamnopyranoside (6)



**Propyl-2-O-acetyl- 3, 4-di-O-benzyl-1-thio-  $\alpha/\beta$  -L-rhamnopyranoside (8)**

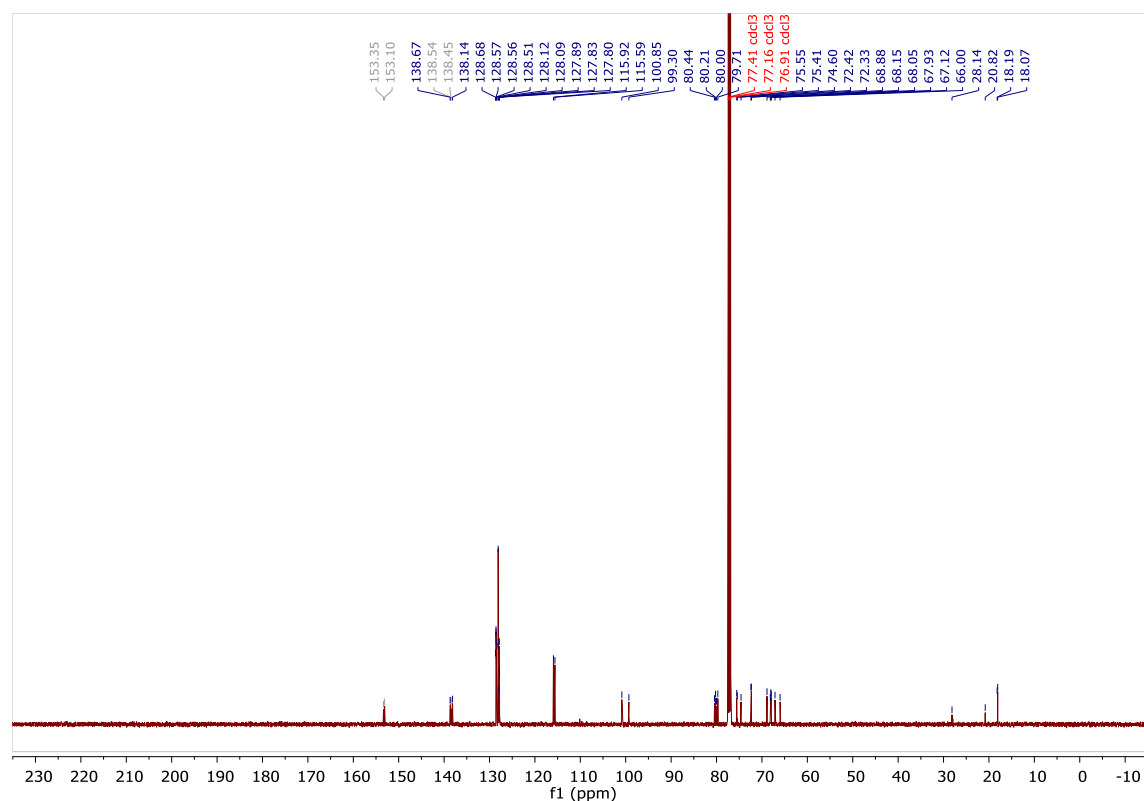
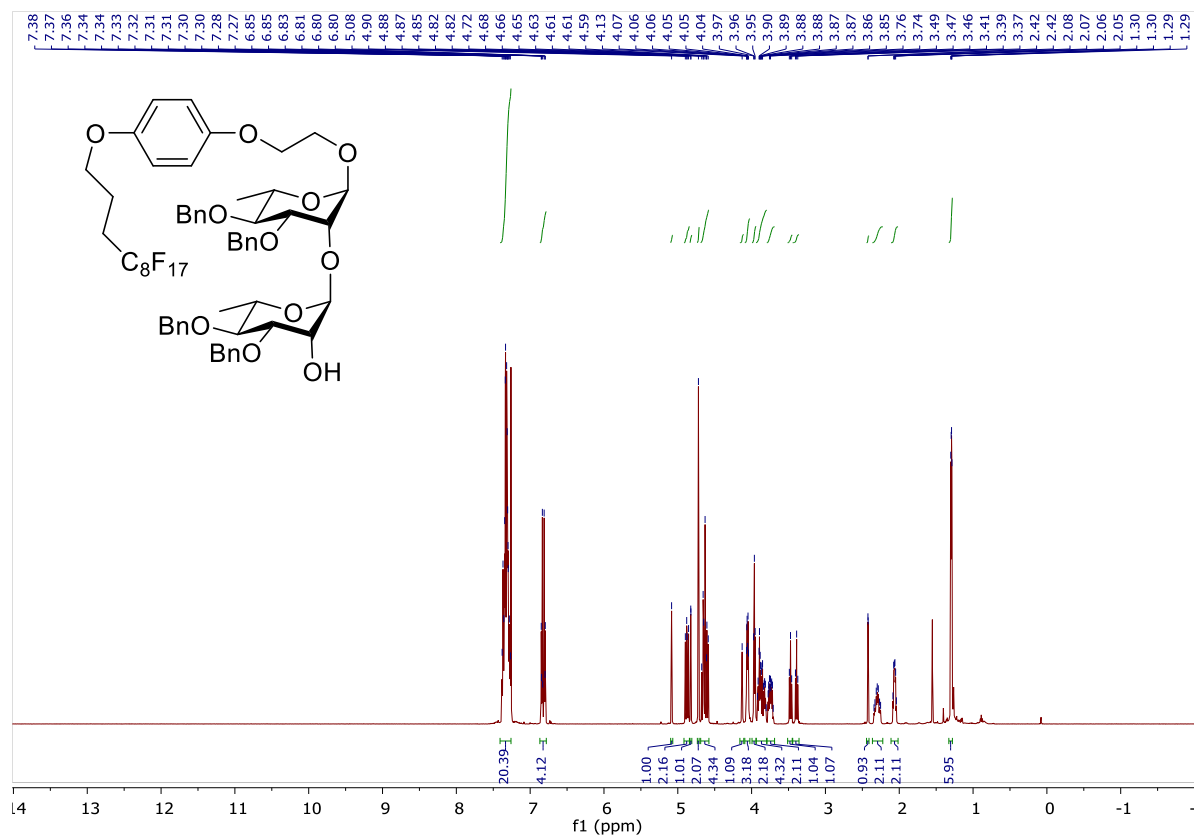


**2-(4-((4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptafluoroundecyl)oxy)phenoxy)ethyl 3,4-di-O-benzyl- $\alpha$ -L-rhamnopyranoside (9)**





**2-(4-((4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptafluoroundecyl)oxy)phenoxy)ethyl 3,4-di-O-benzyl- $\alpha$ -L-rhamnopyranosyl- (1 $\rightarrow$ 2)-3,4-di-O-benzyl- $\alpha$ -L-rhamnopyranoside (10)**



**2-(4-((4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptafluoroundecyl)oxy)phenoxy)ethyl 3,4-di-O-benzyl- $\alpha$ -L-rhamnopyranosyl-3,4-di-O-benzyl- $\alpha$ -L-rhamnopyranoside (1 $\rightarrow$ 2)-3,4-di-O-benzyl- $\alpha$ -L-rhamnopyranoside (11)**

