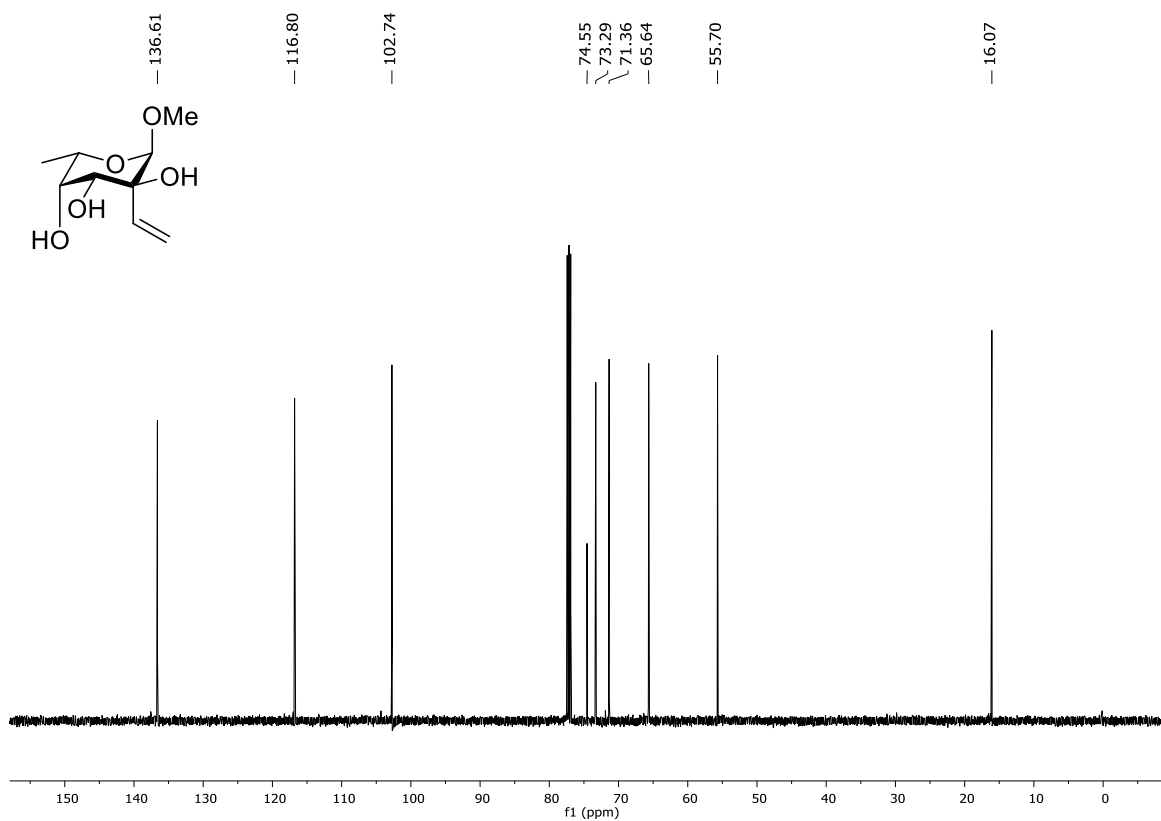
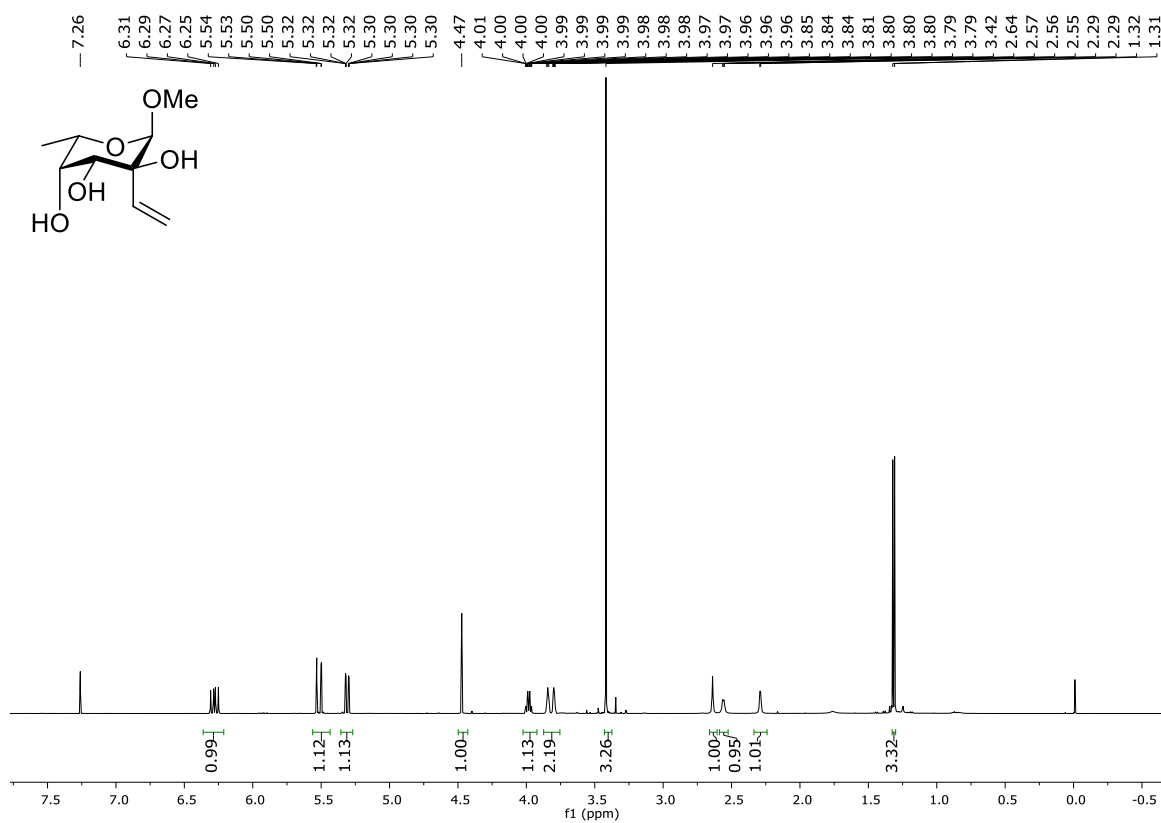
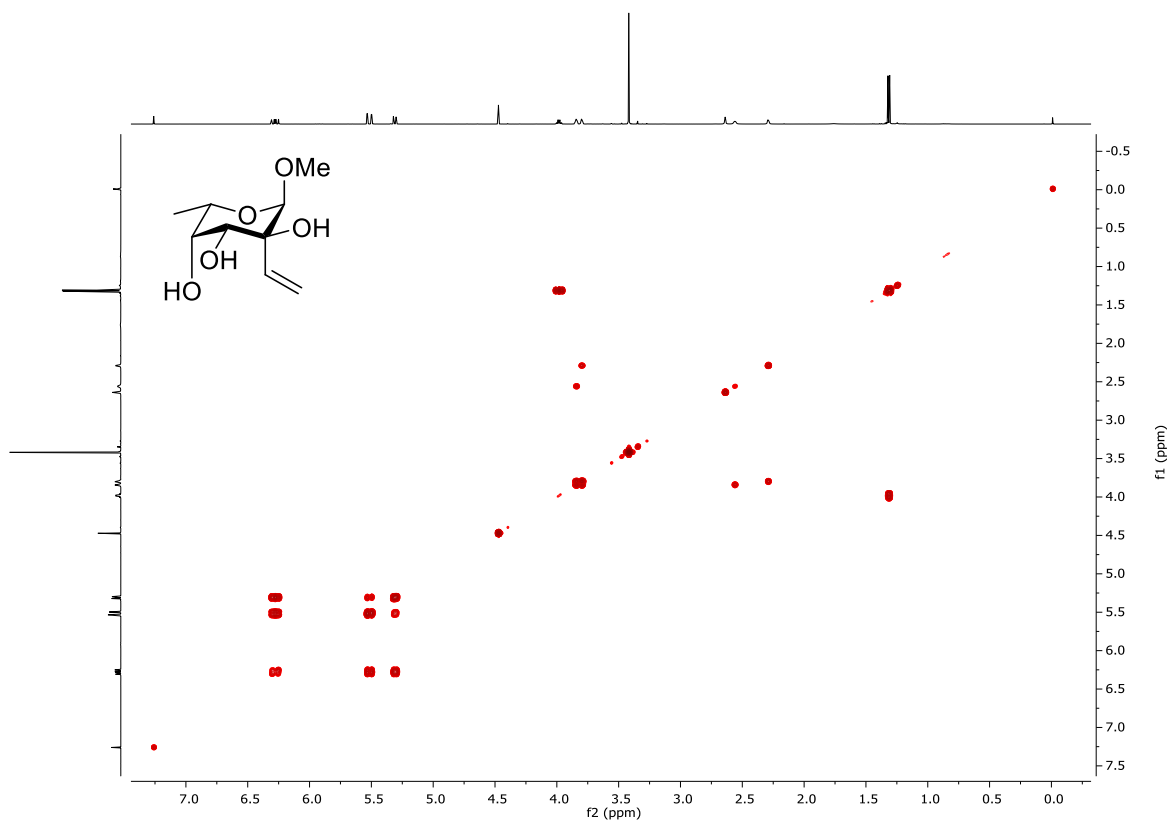
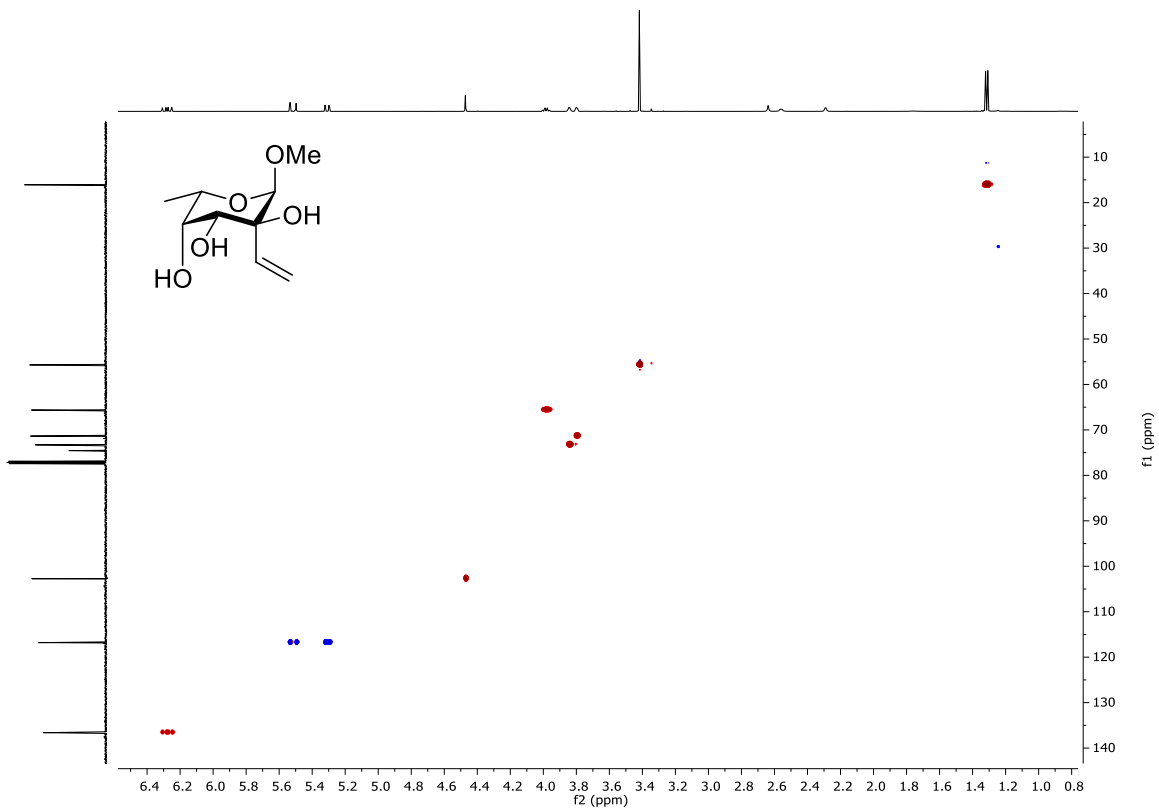
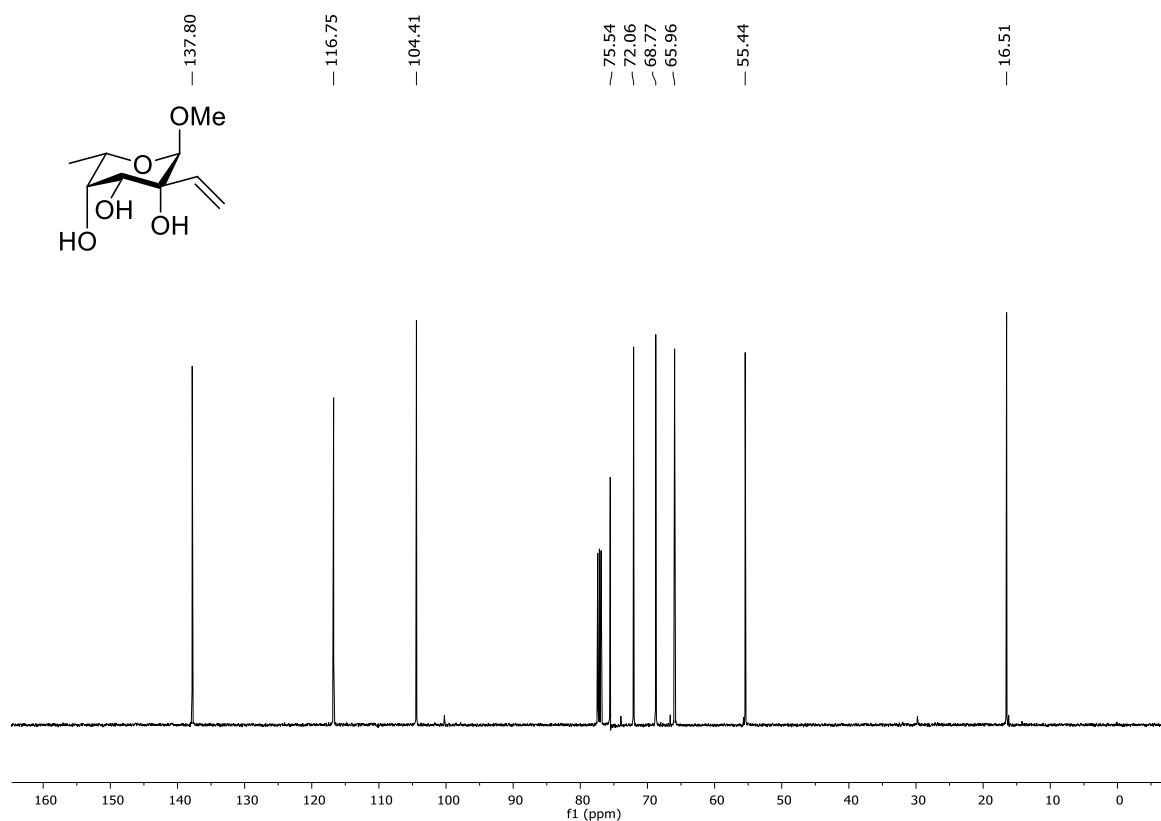
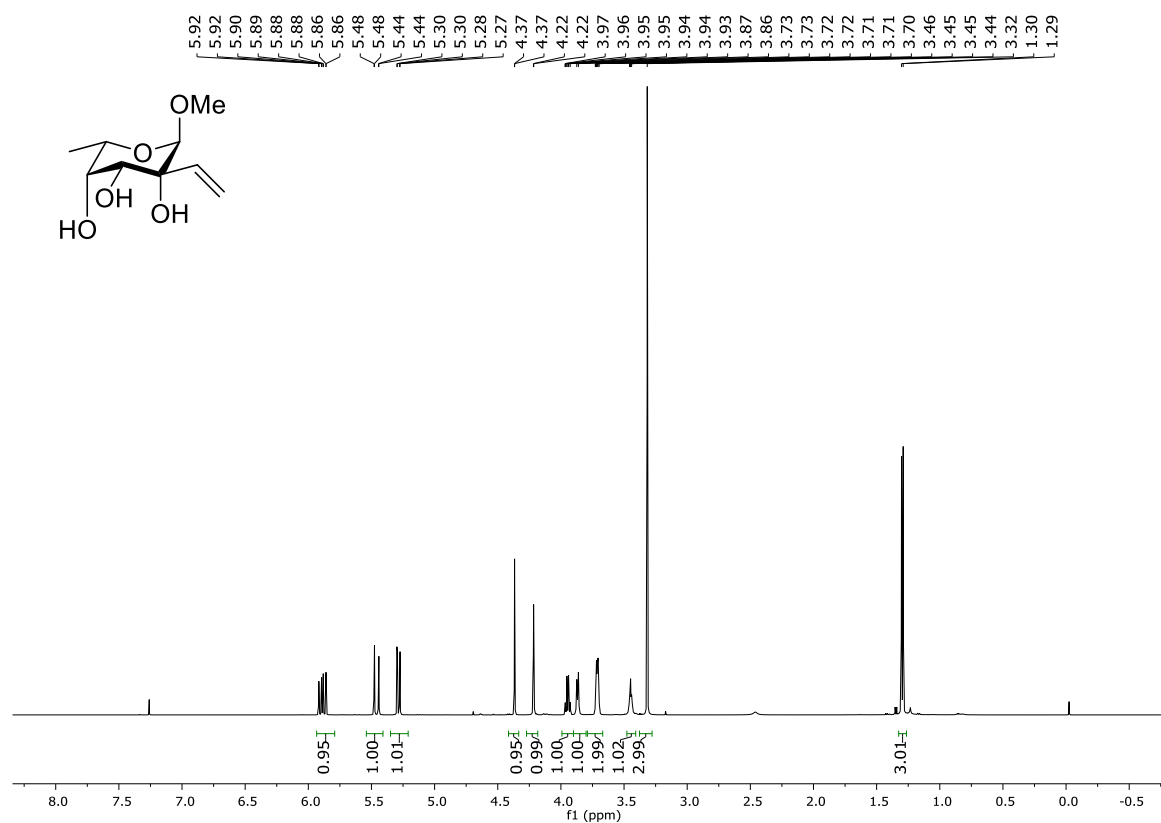


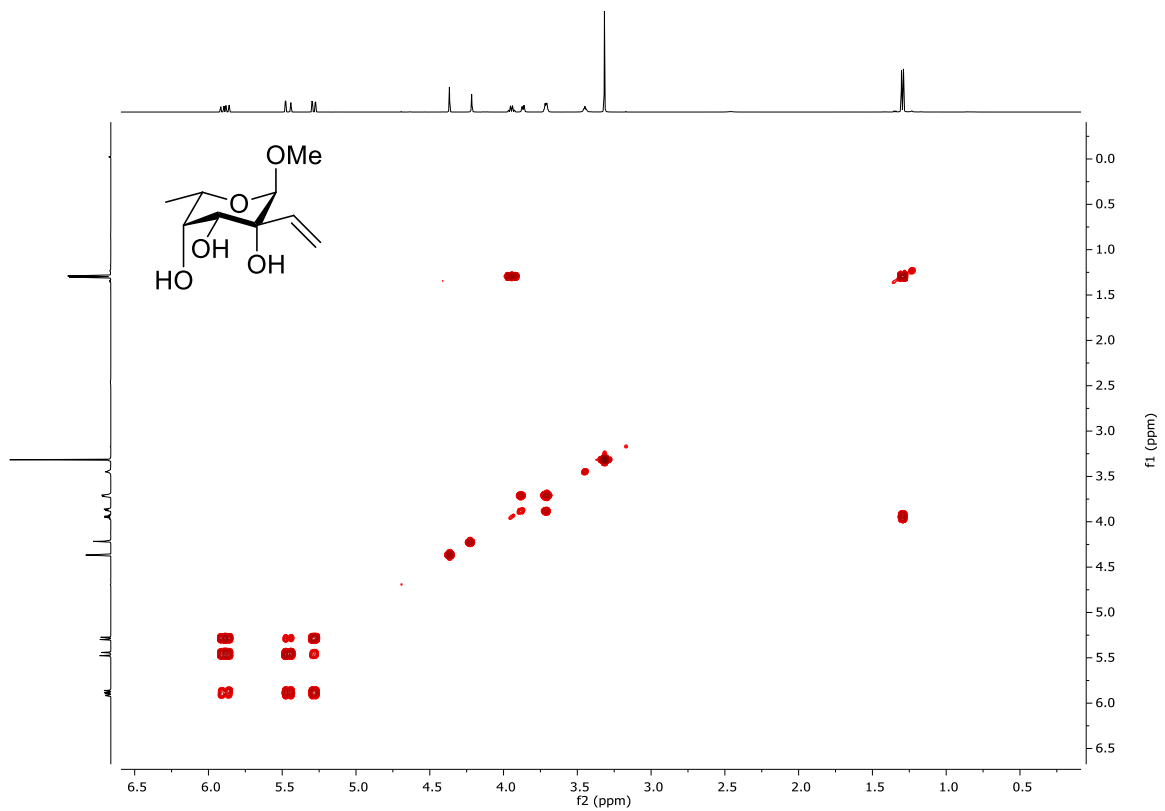
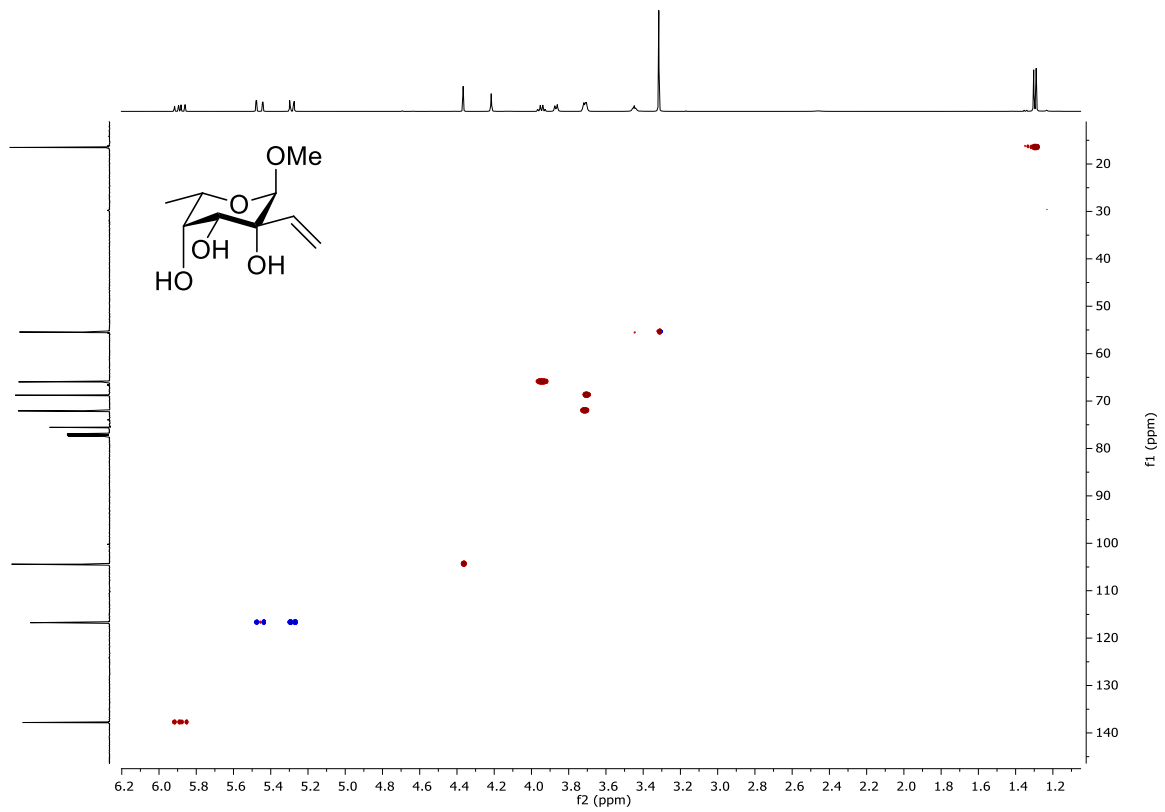
# Methyl 2-C-vinyl- $\alpha$ -L-fucopyranoside (8)



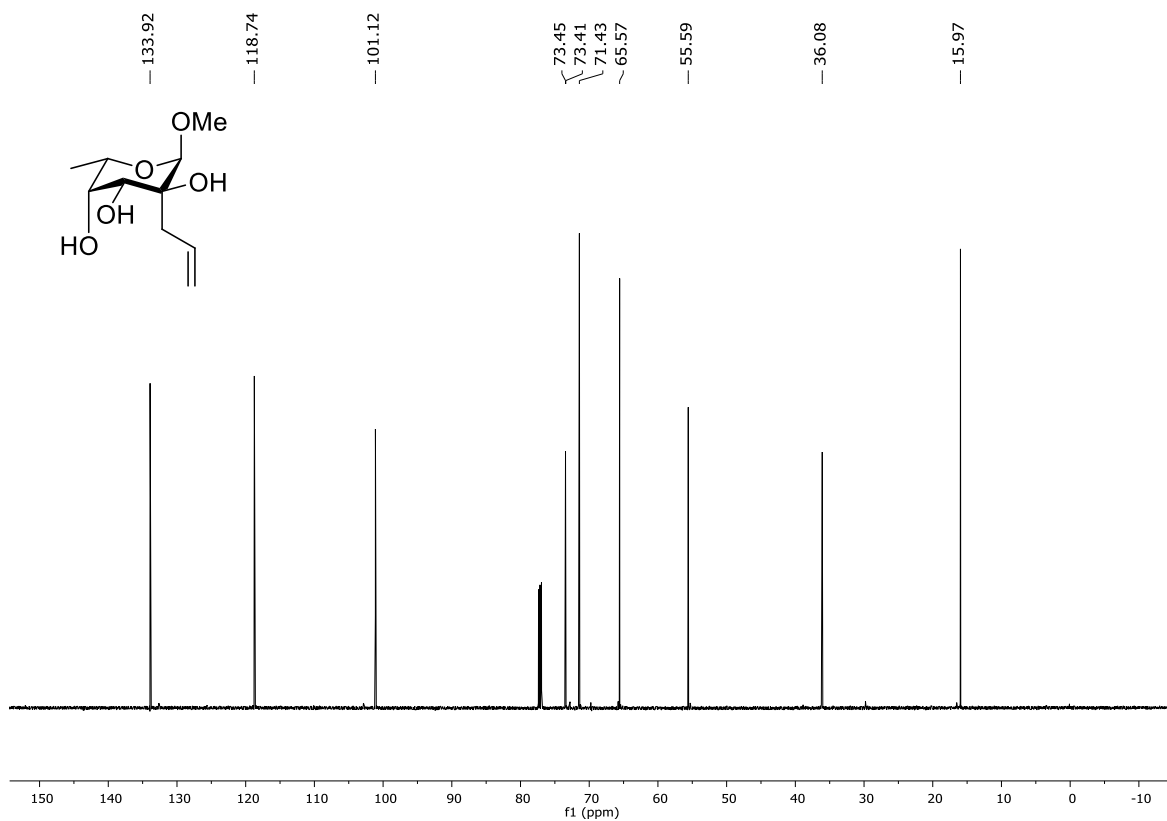
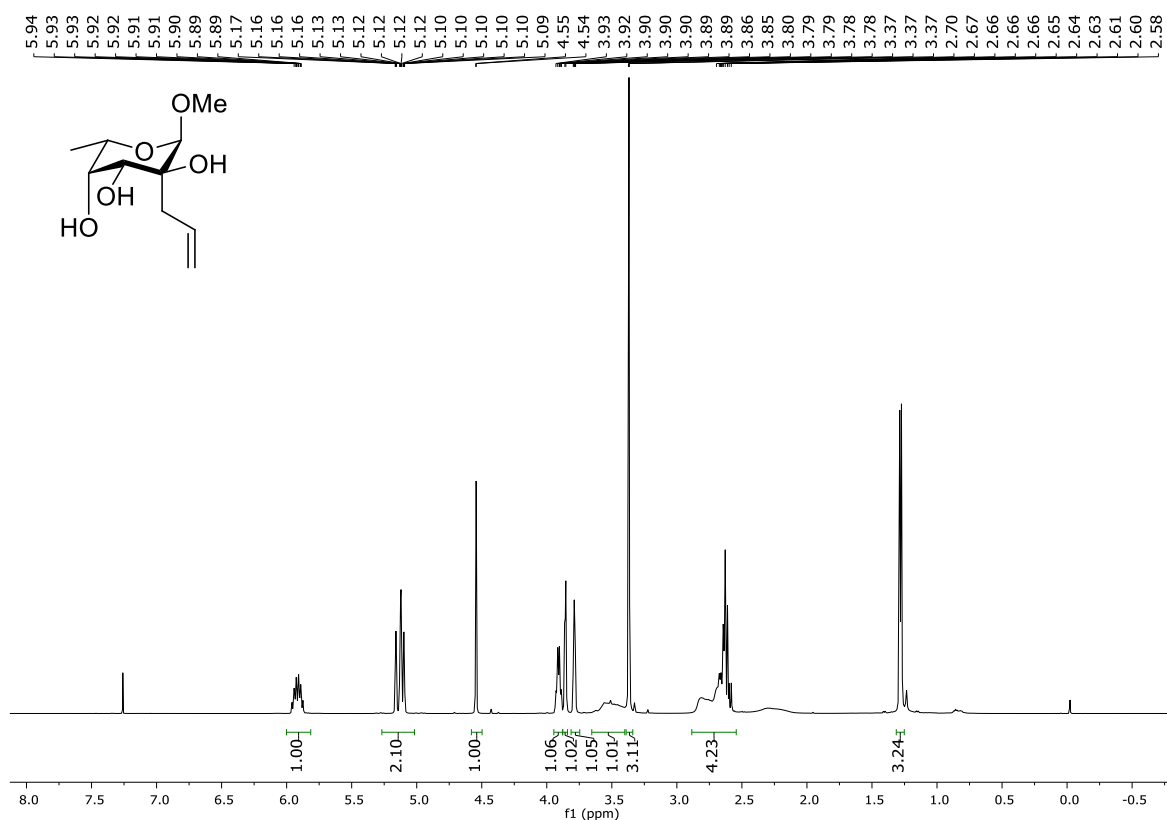


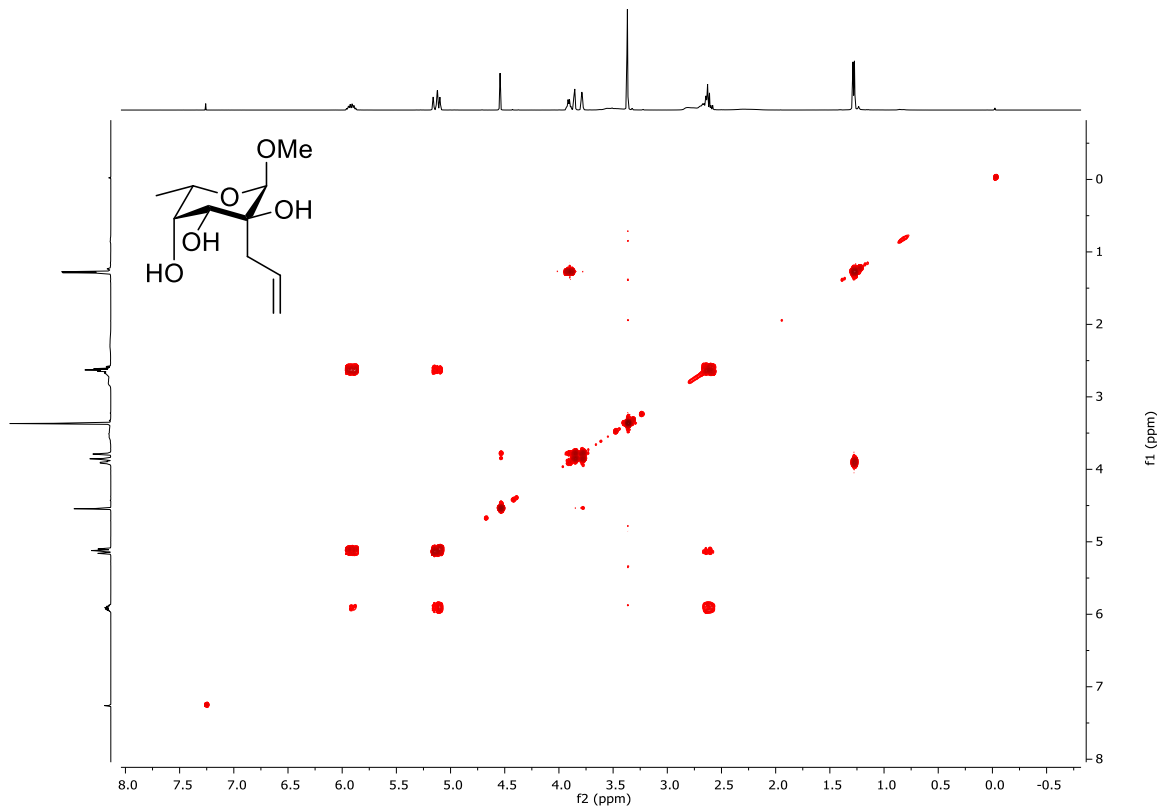
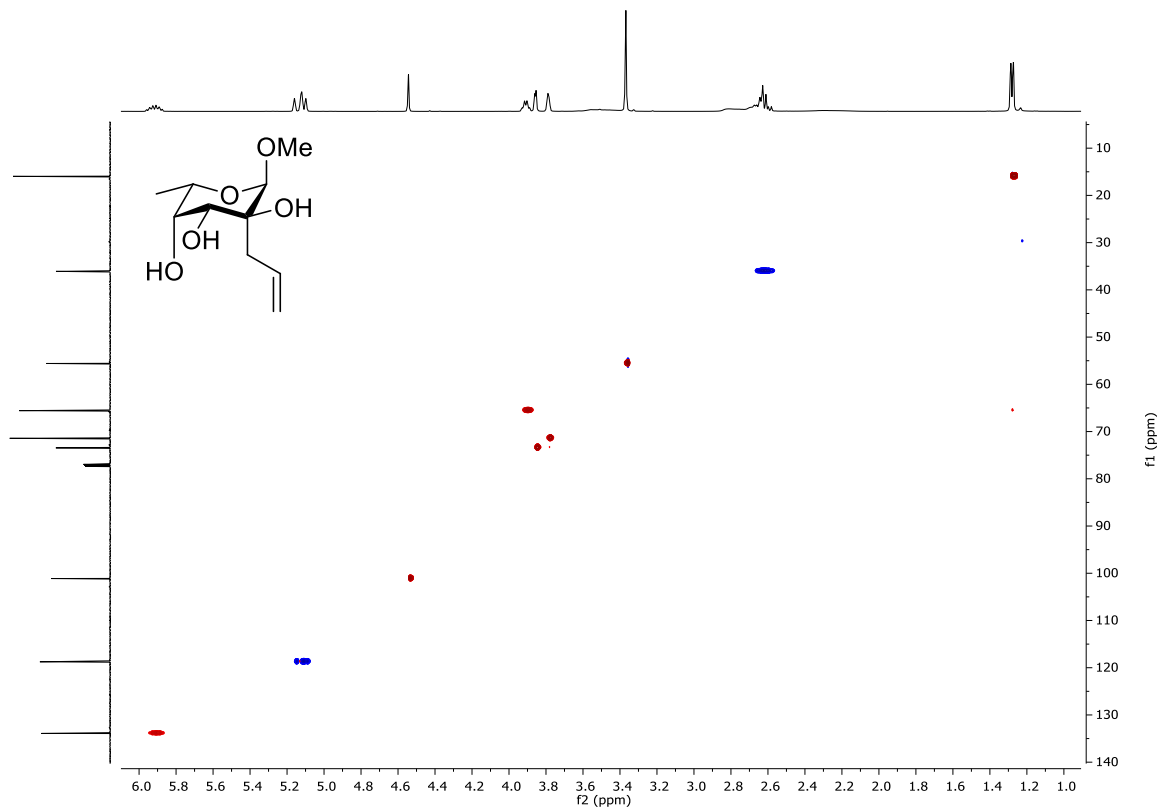
# Methyl 6-deoxy-2-C-vinyl- $\alpha$ -L-talopyranoside (10)



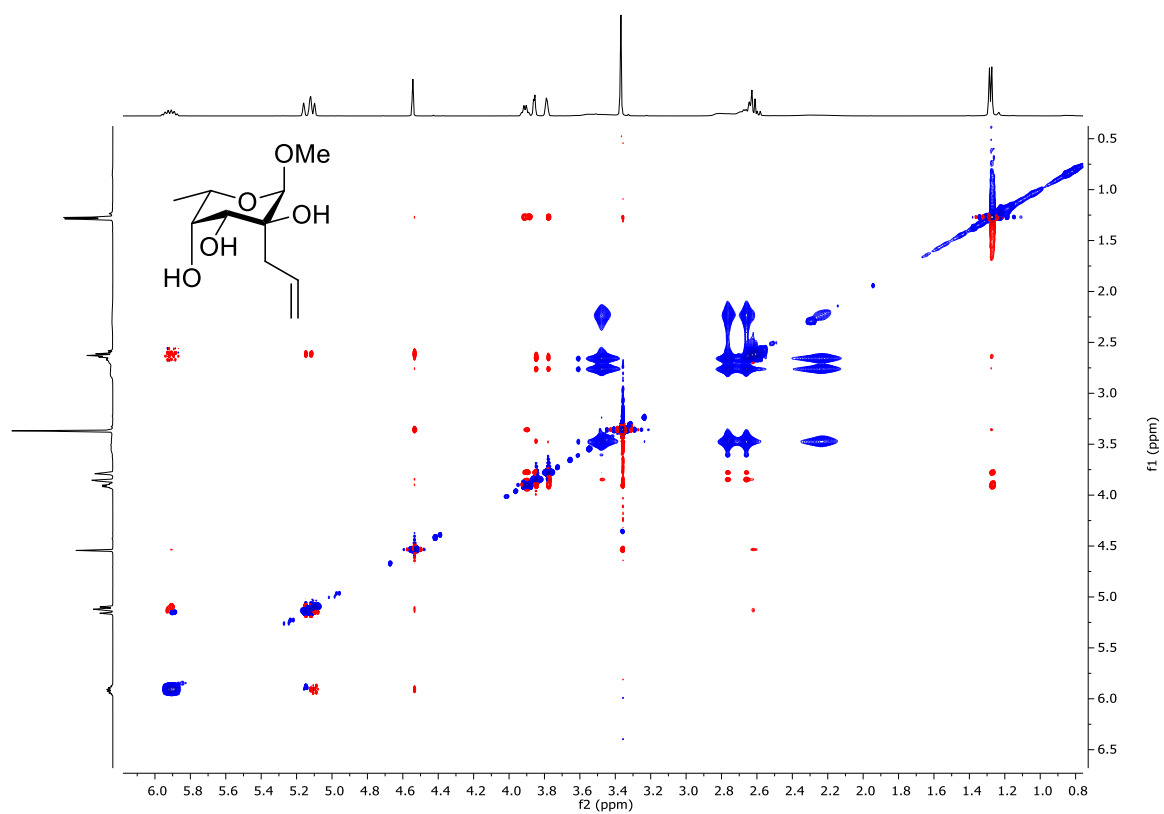


# Methyl 2-C-allyl- $\alpha$ -L-fucopyranoside (9)

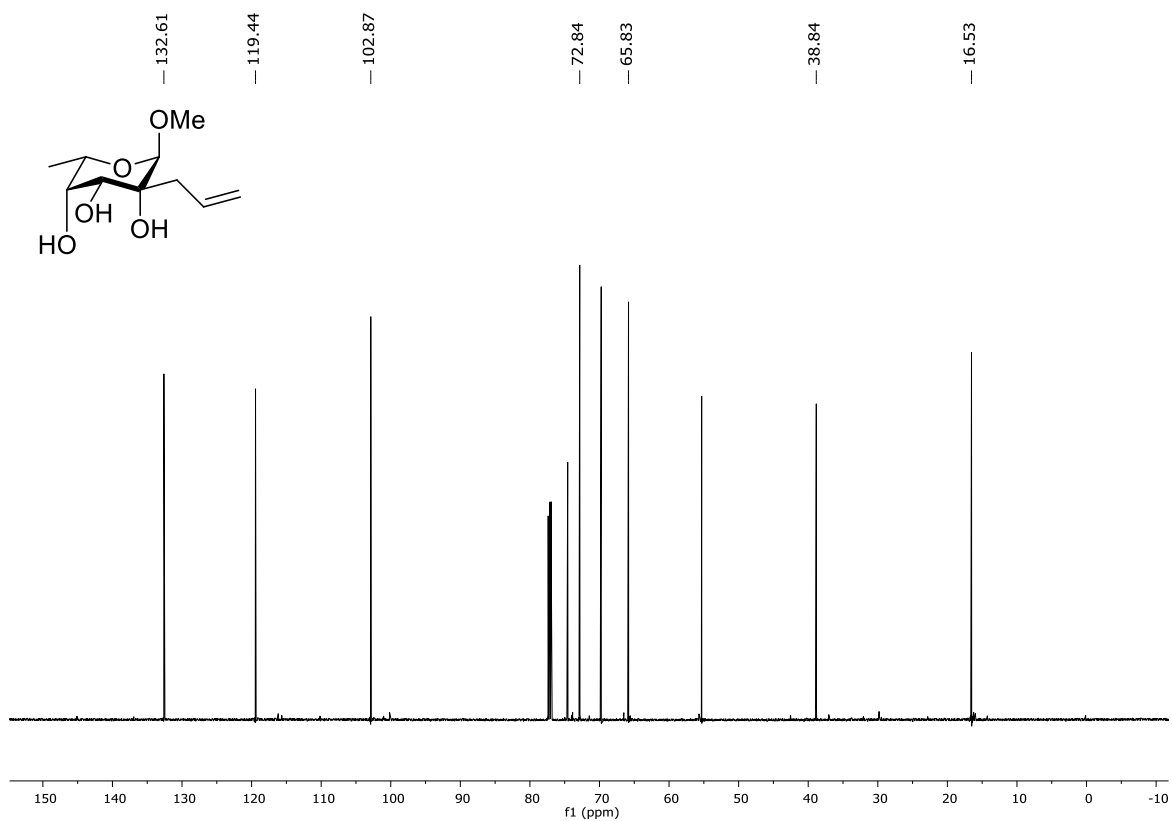
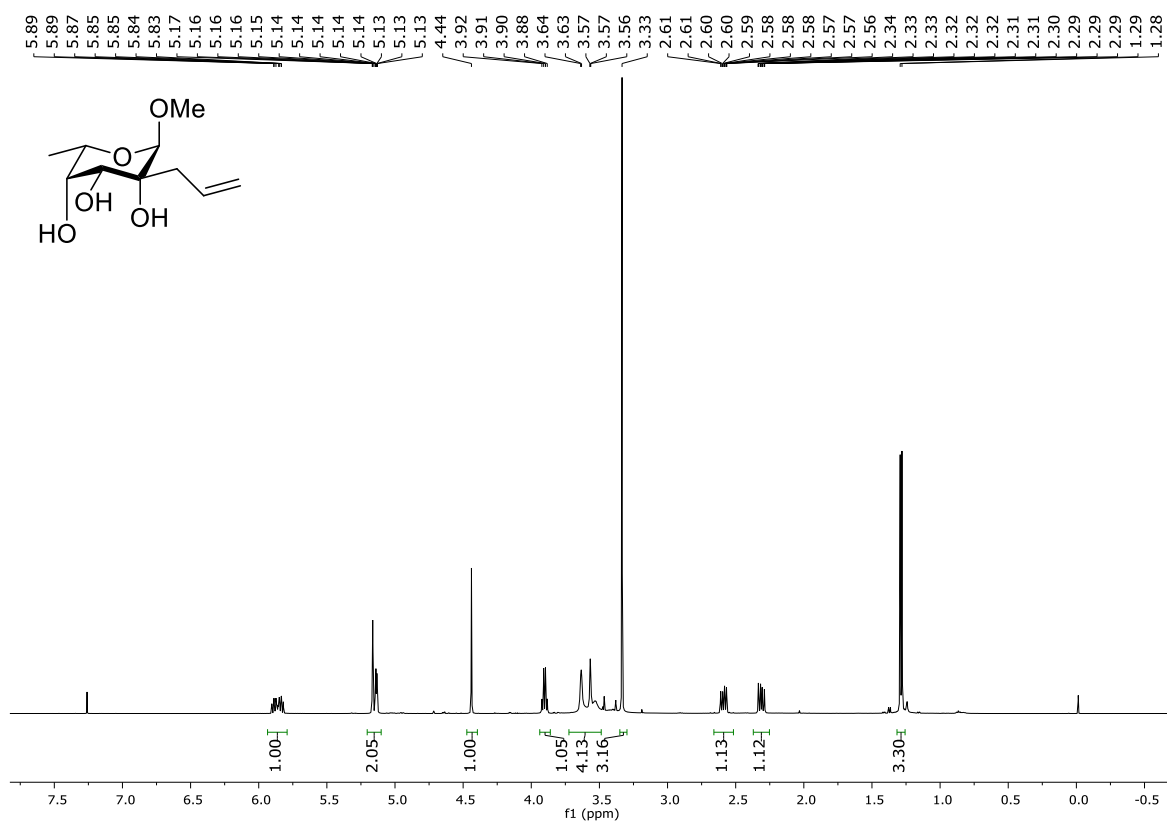


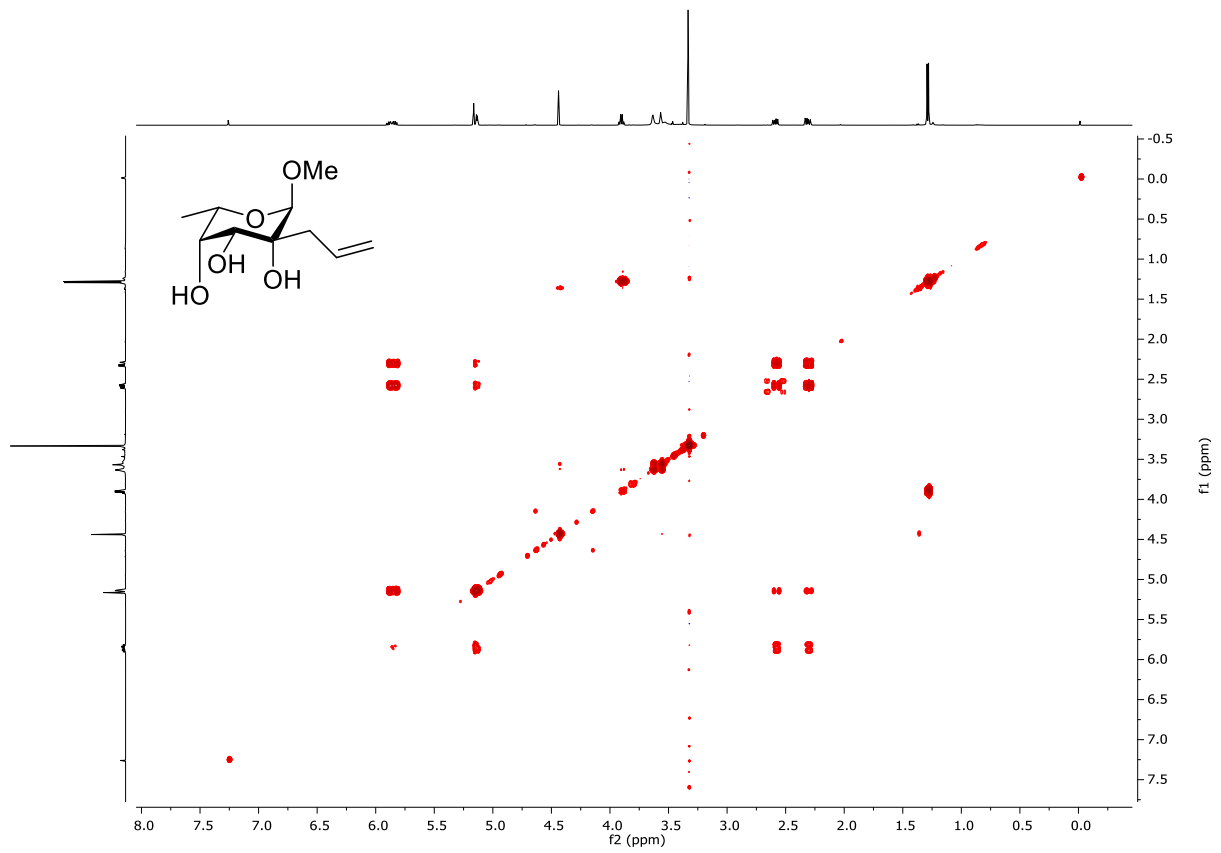
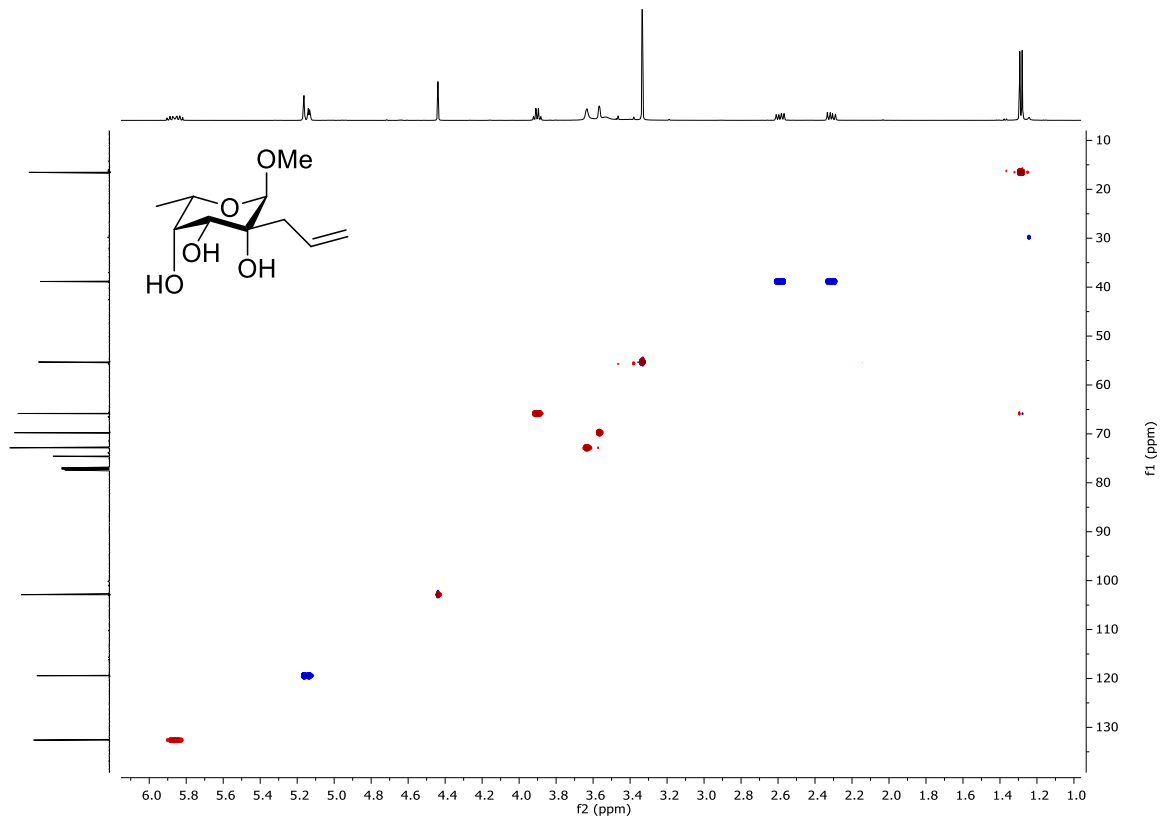


# $^1\text{H}$ - $^1\text{H}$ NOESY

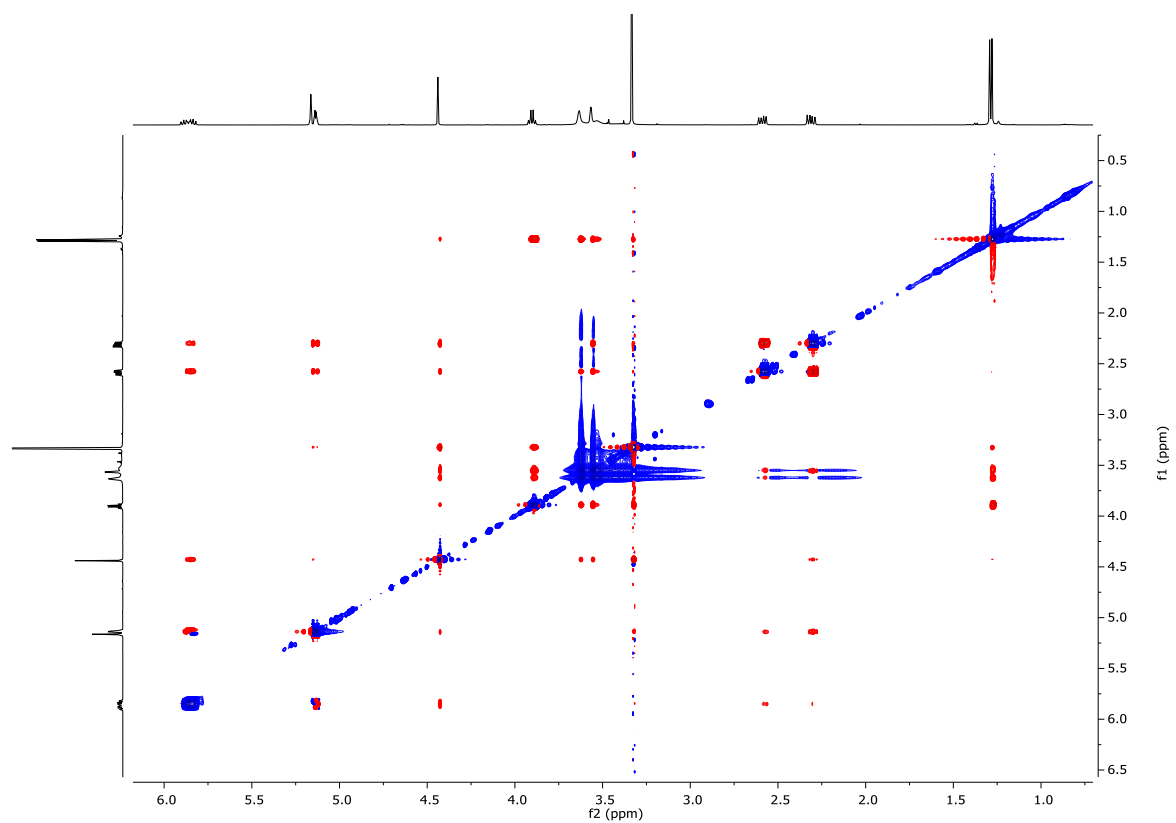


# Methyl 2-C-allyl-6-deoxy- $\alpha$ -L-talopyranoside (11)

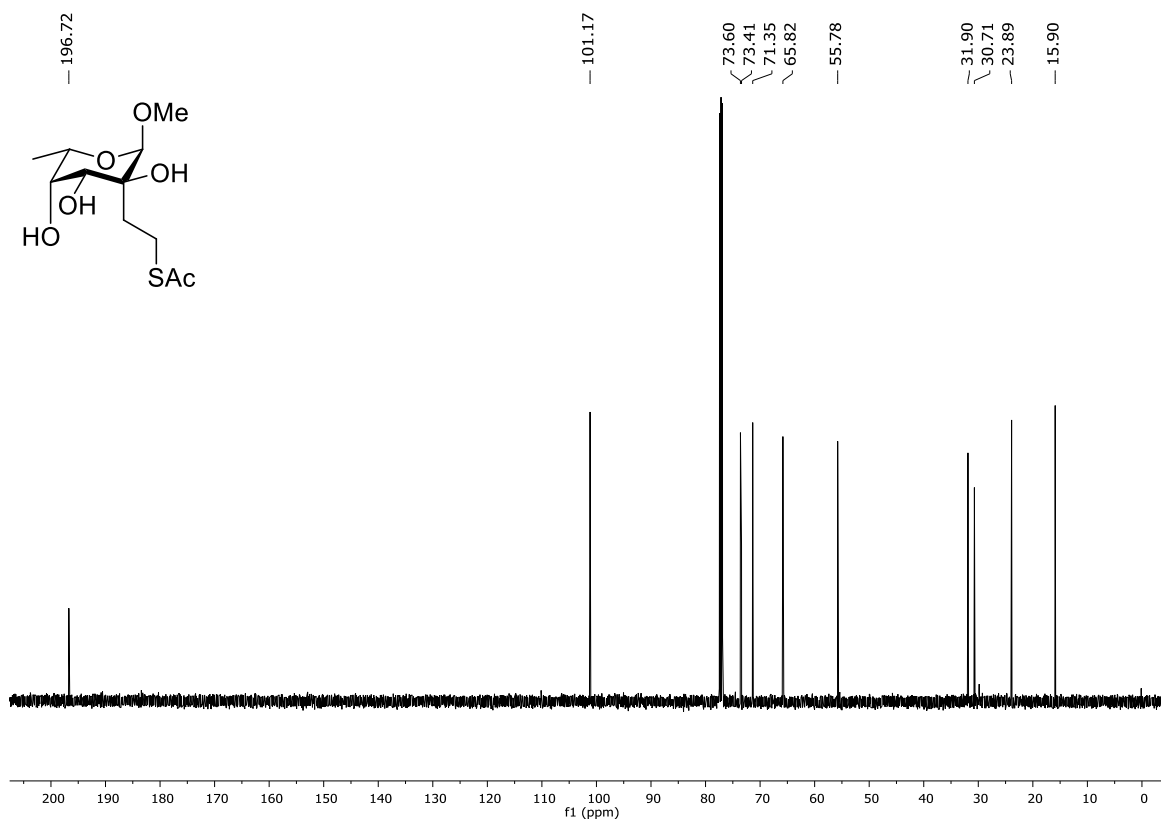
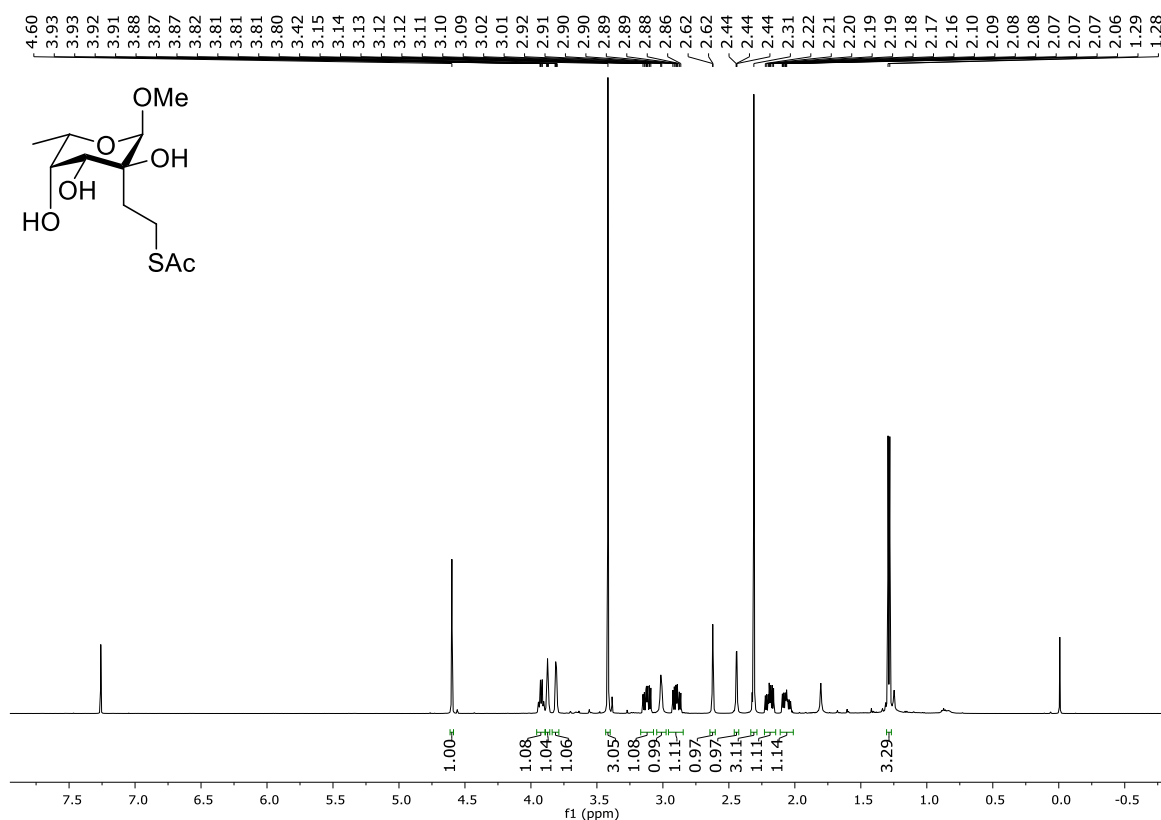


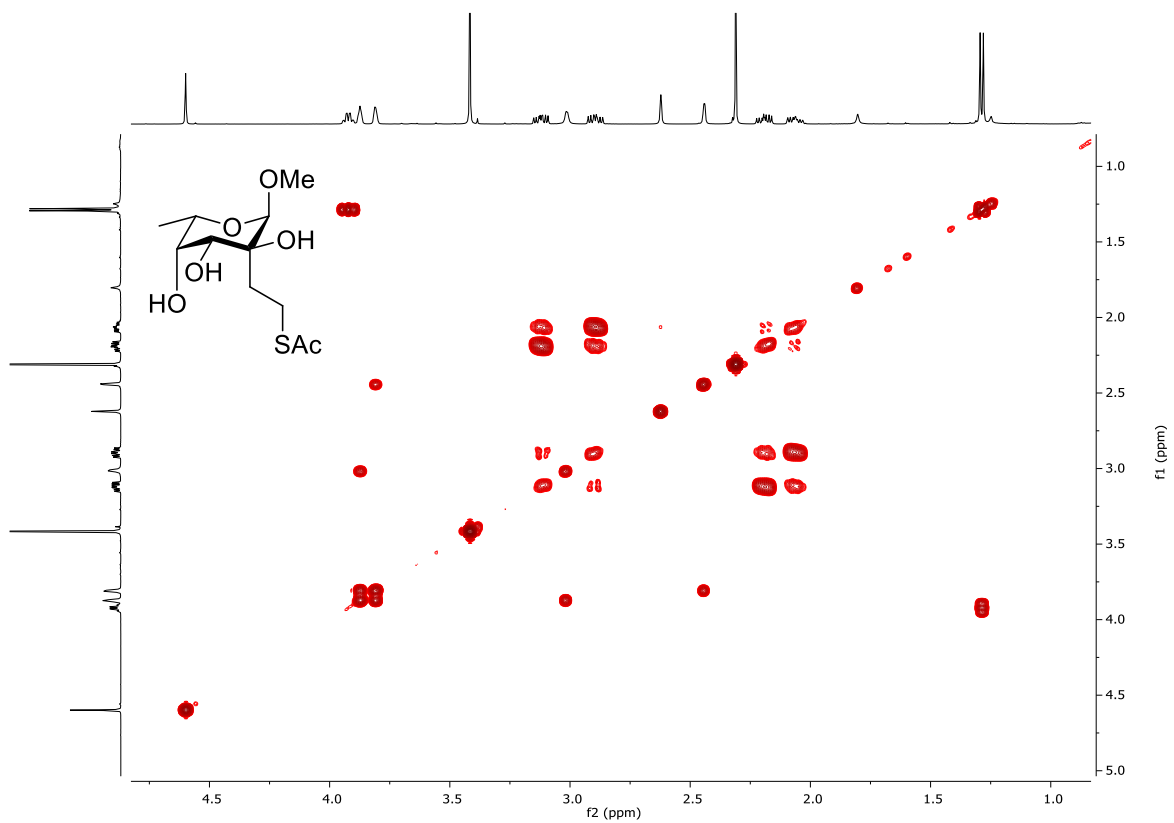
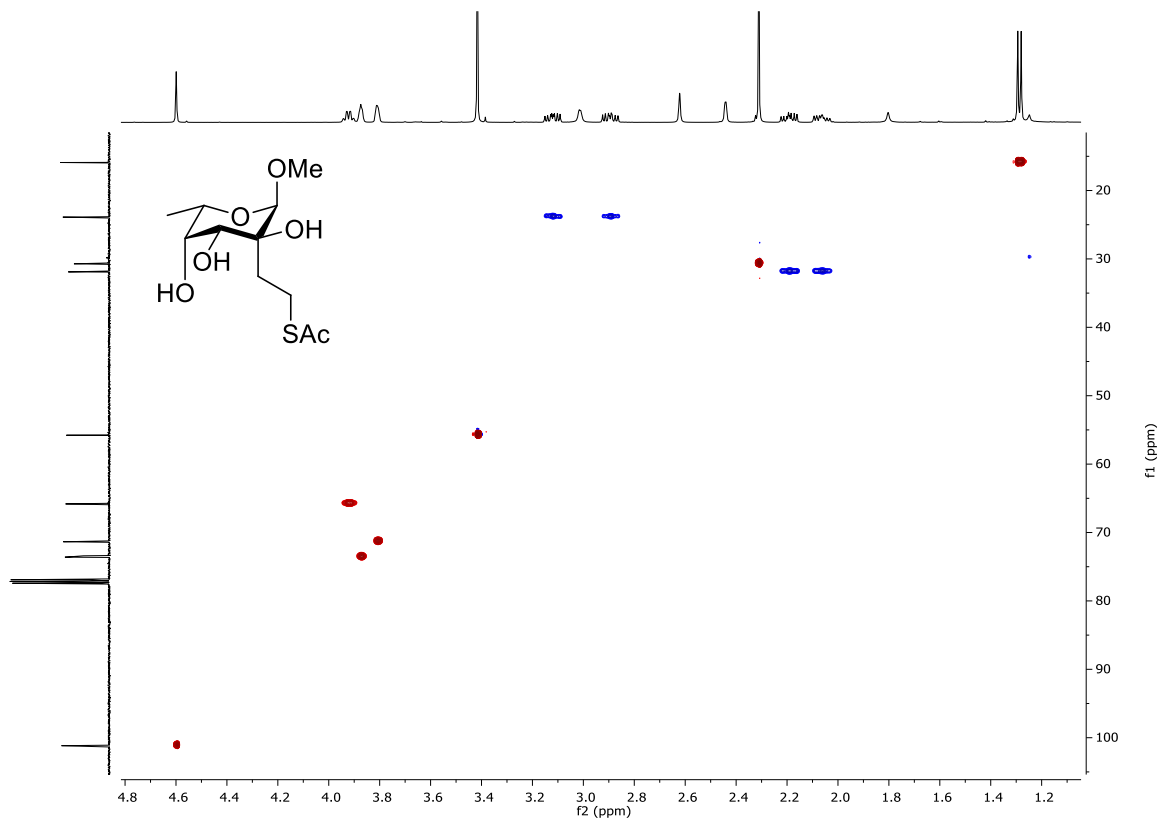


$^1\text{H}$ - $^1\text{H}$  NOESY

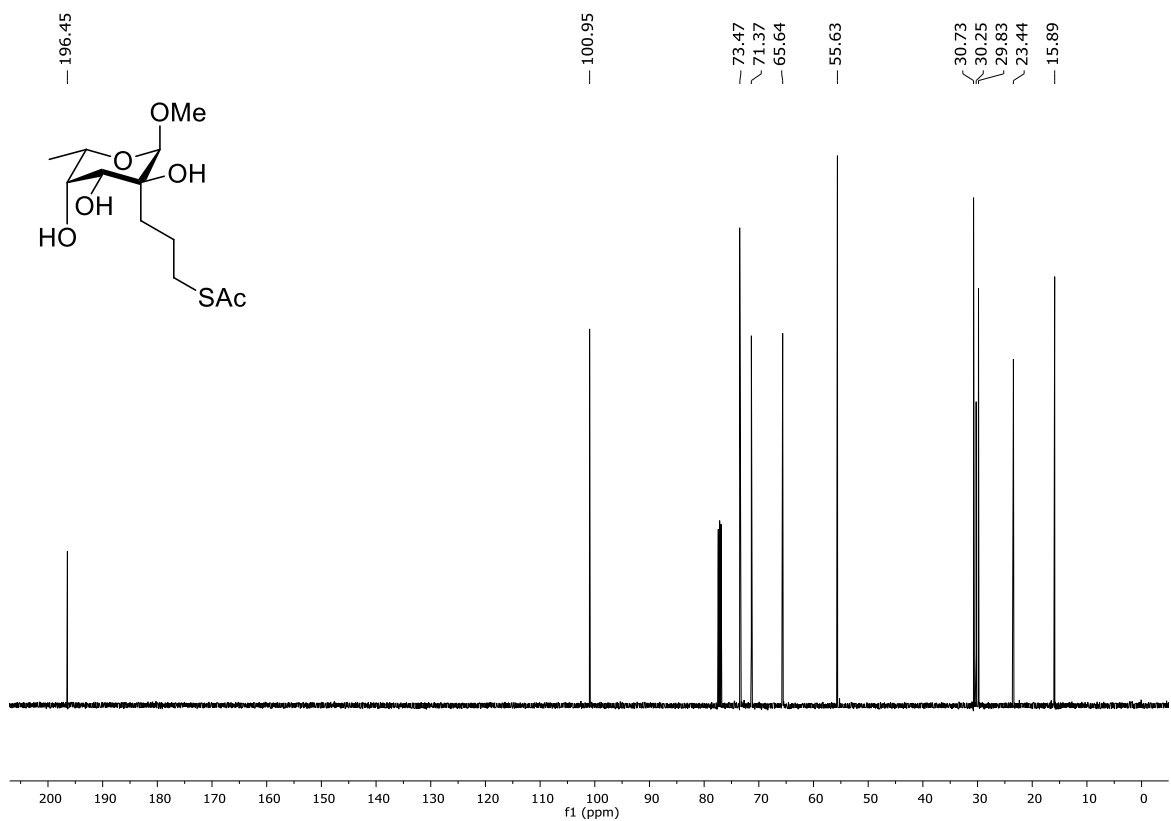
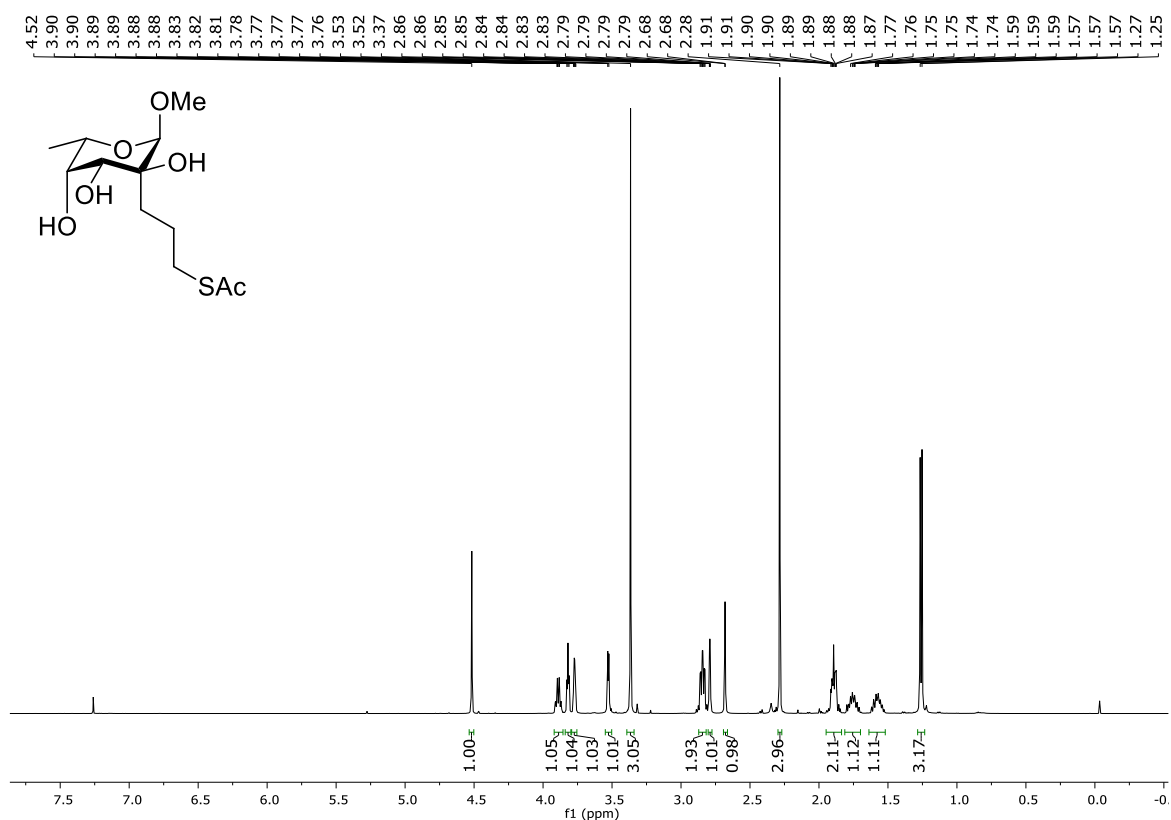


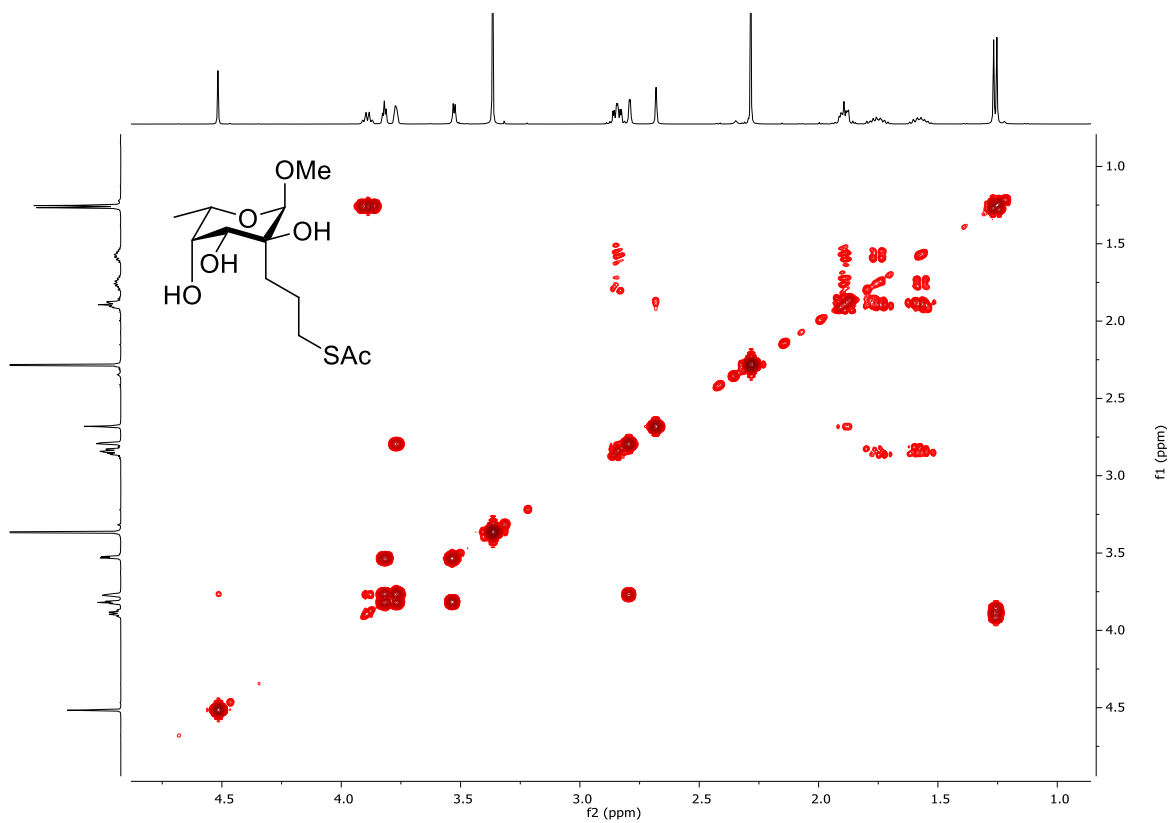
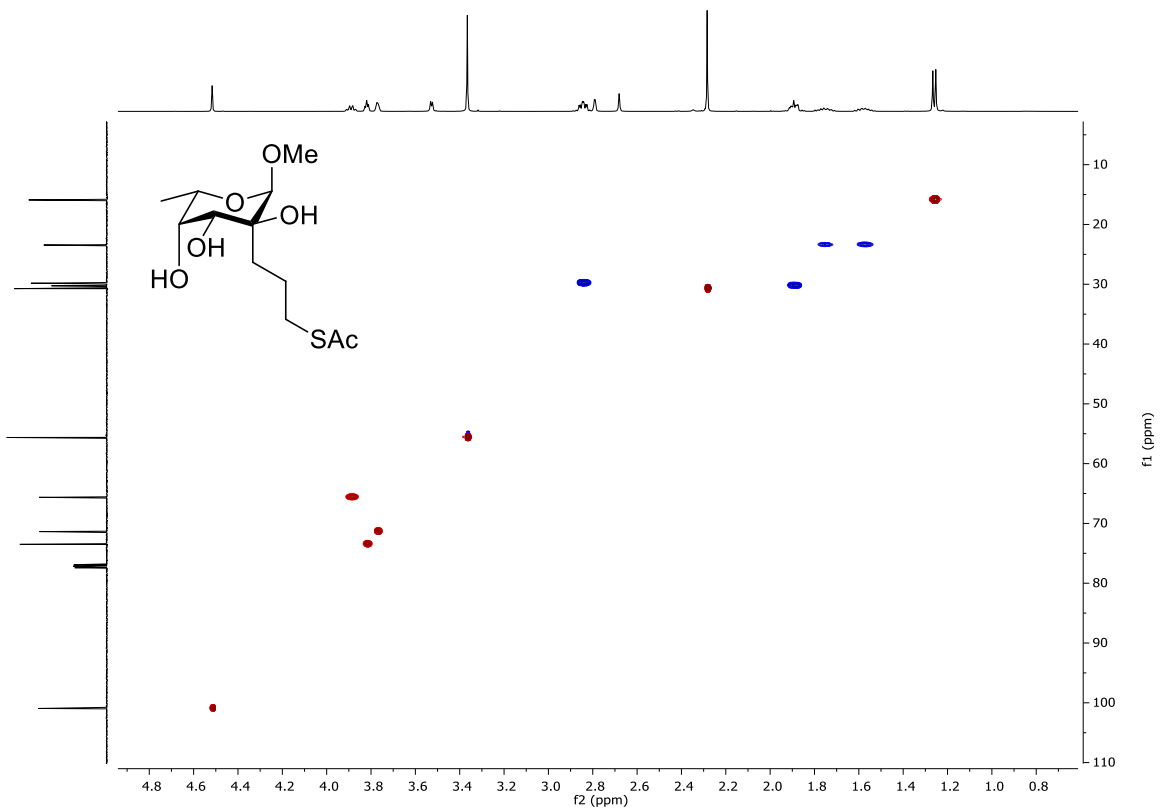
# Methyl 2-C-[2-acetylthioethyl]- $\alpha$ -L-fucopyranoside (12)



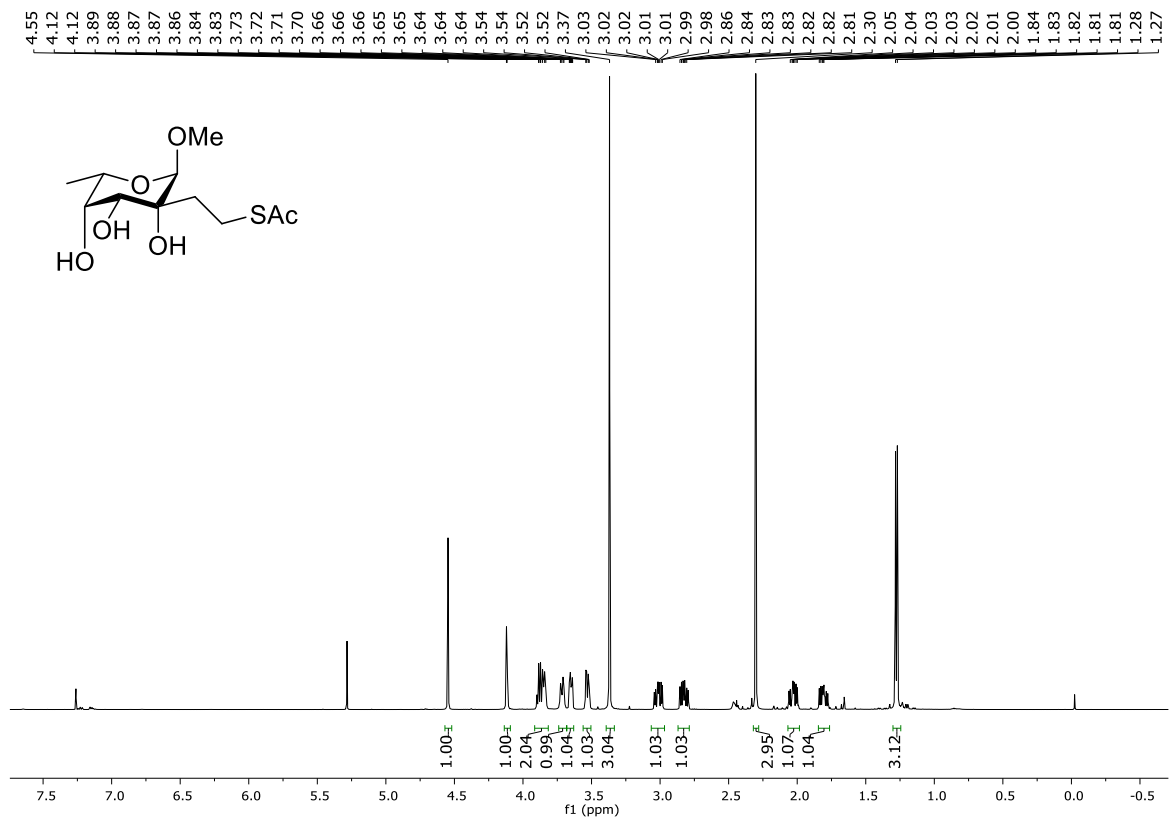


# Methyl 2-C-[3-acetylthiopropyl]- $\alpha$ -L-fucopyranoside (13)





# Methyl 2-C-[2-acetylthioethyl]-6-deoxy- $\alpha$ -L-talopyranoside (14)



— 196.94

— 102.56

— 74.58

— 72.75

— 69.67

— 65.74

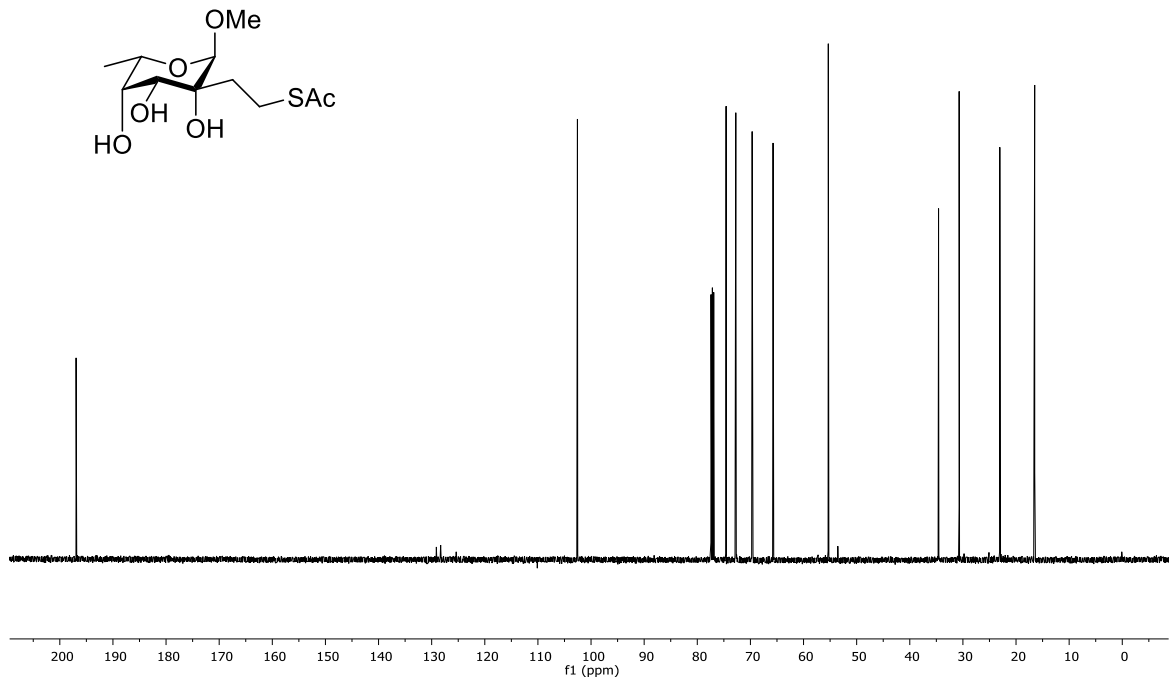
— 55.34

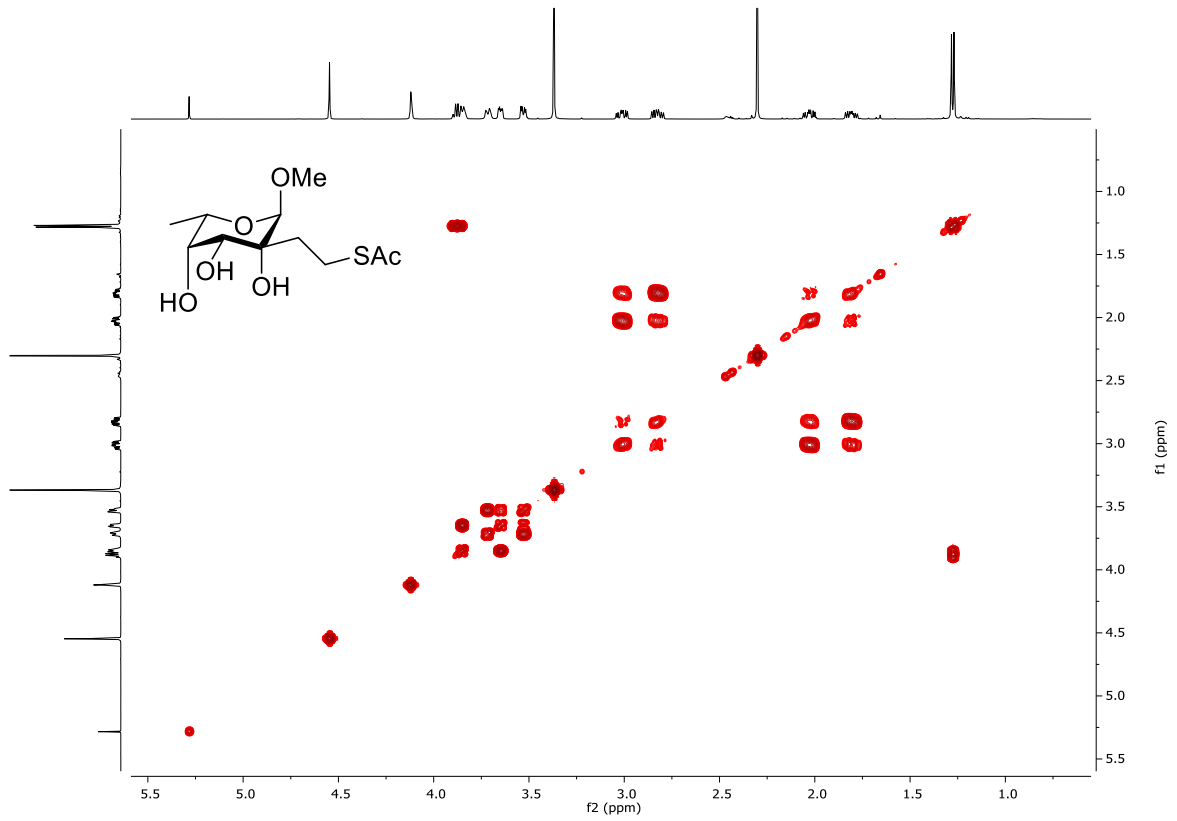
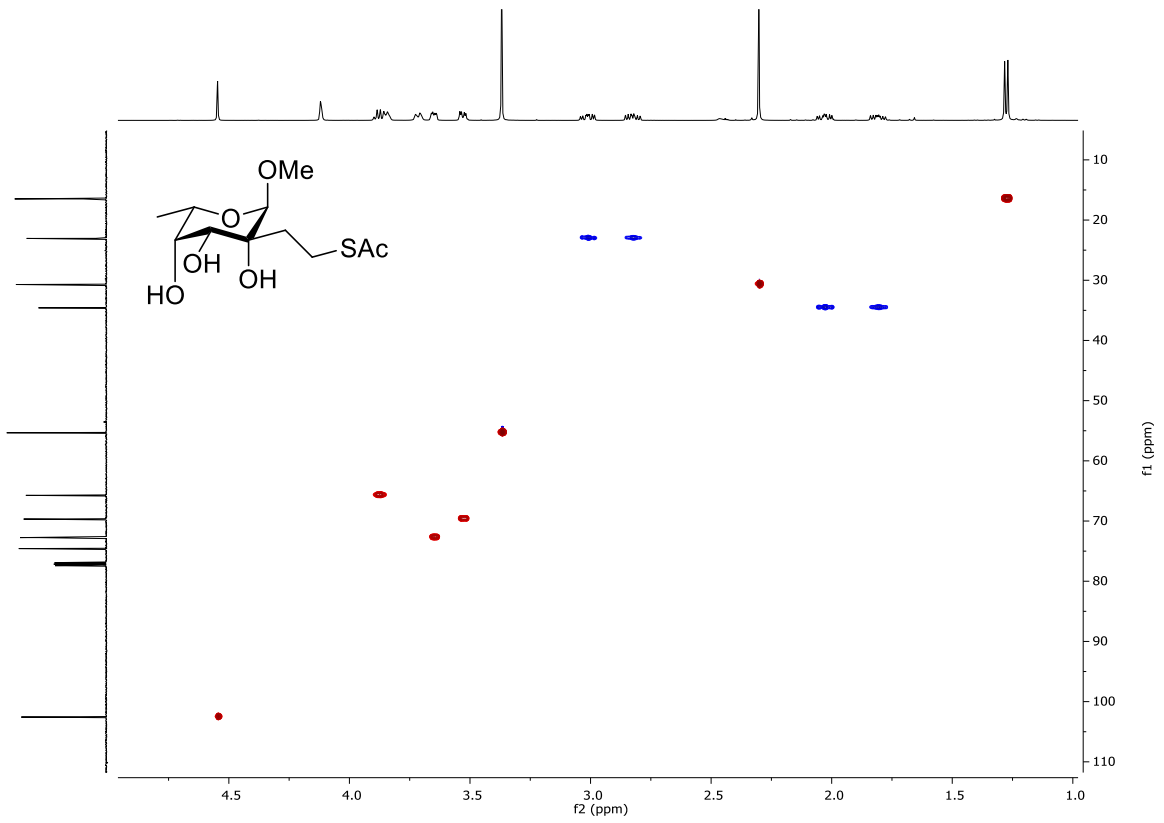
— 34.58

— 30.71

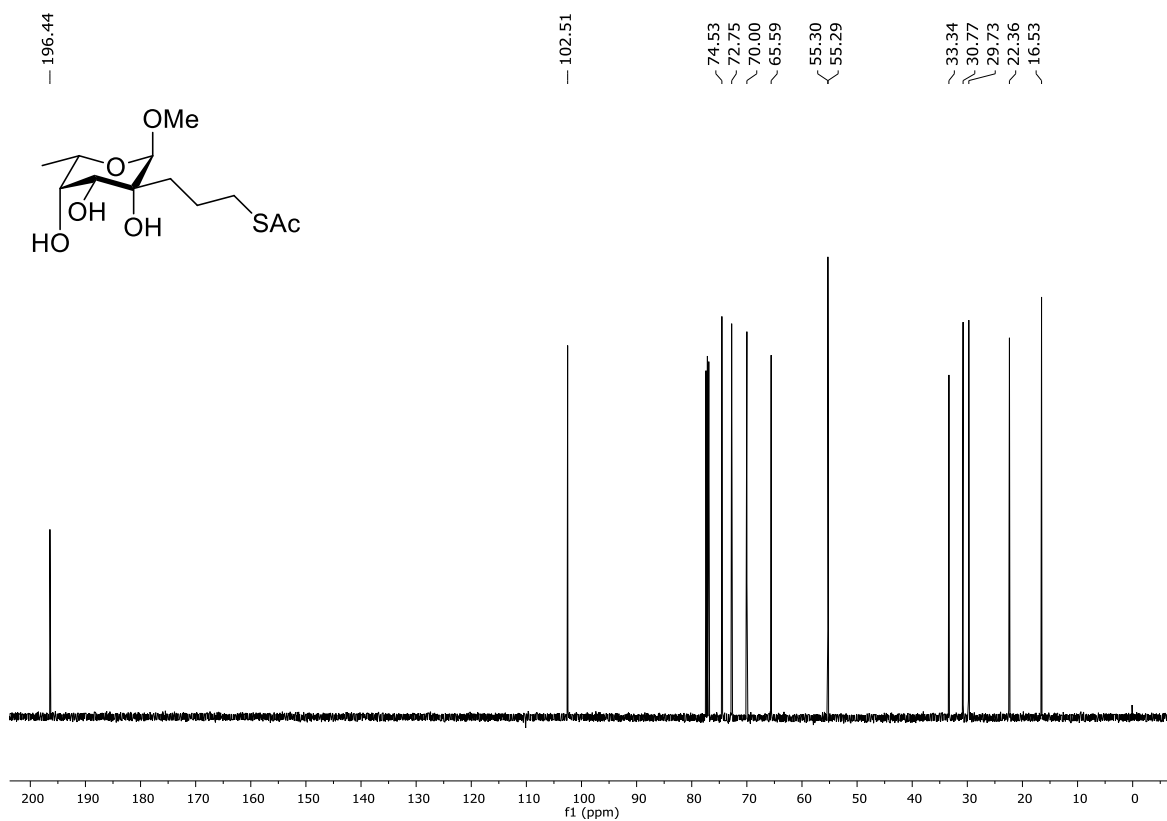
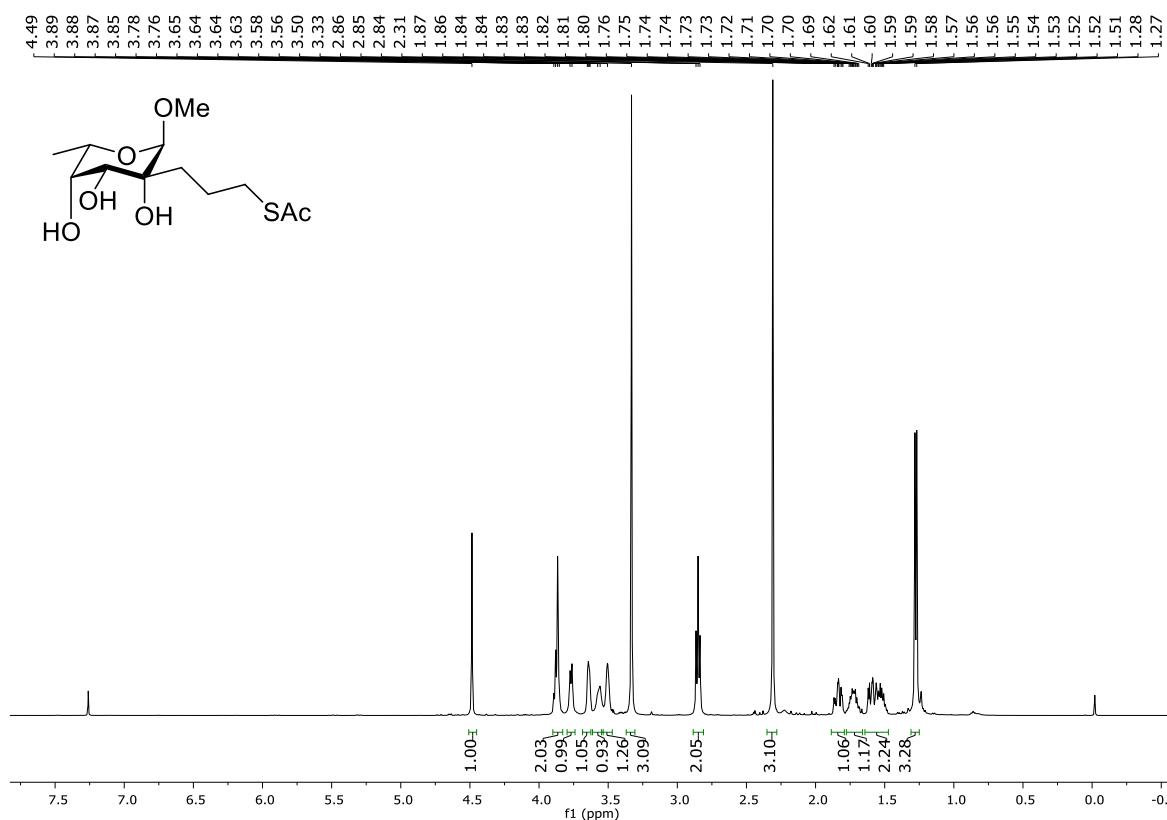
— 23.05

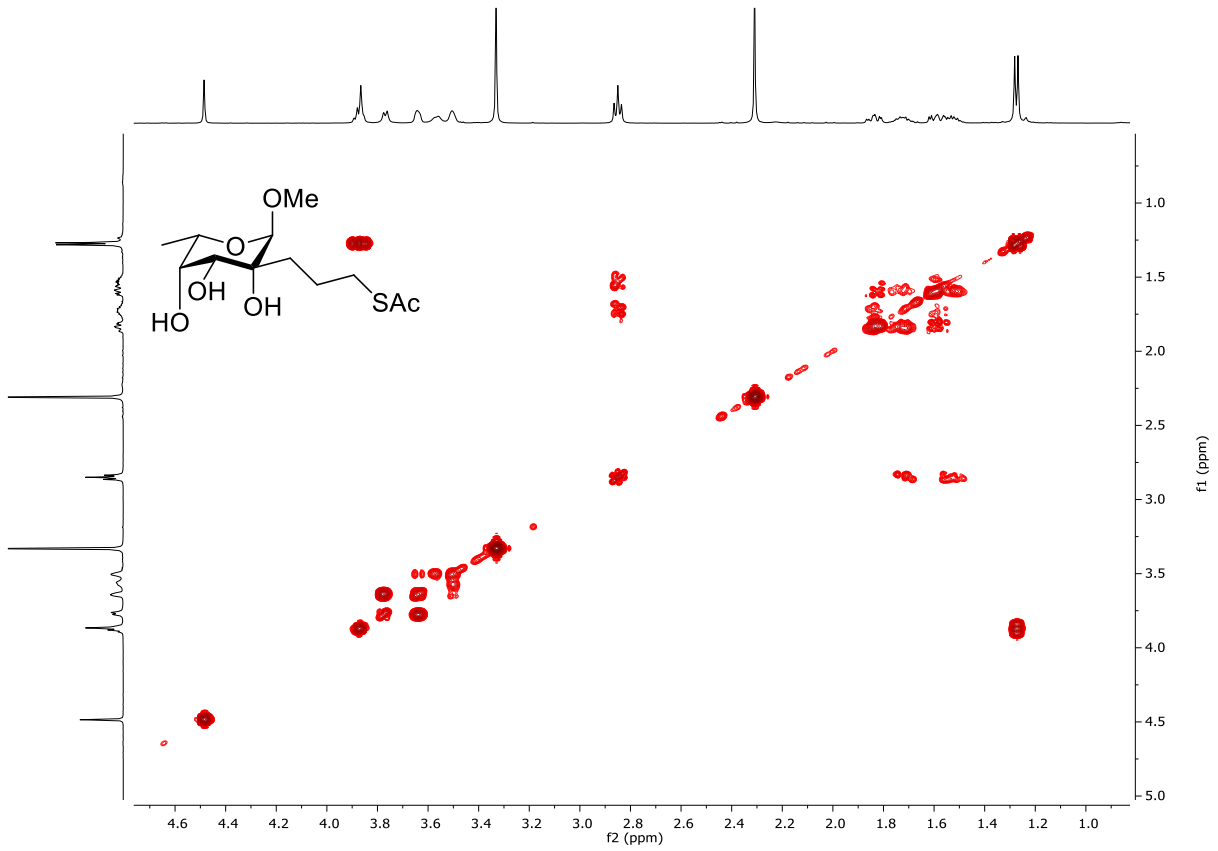
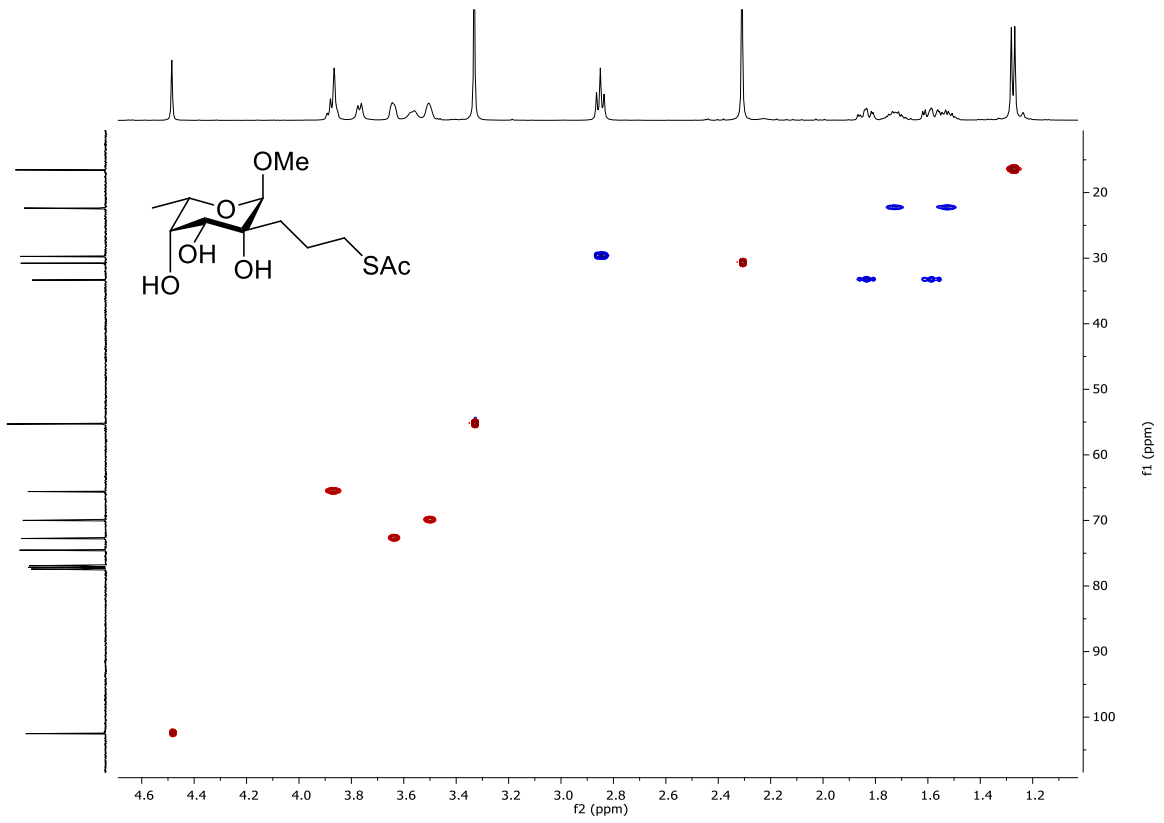
— 16.49



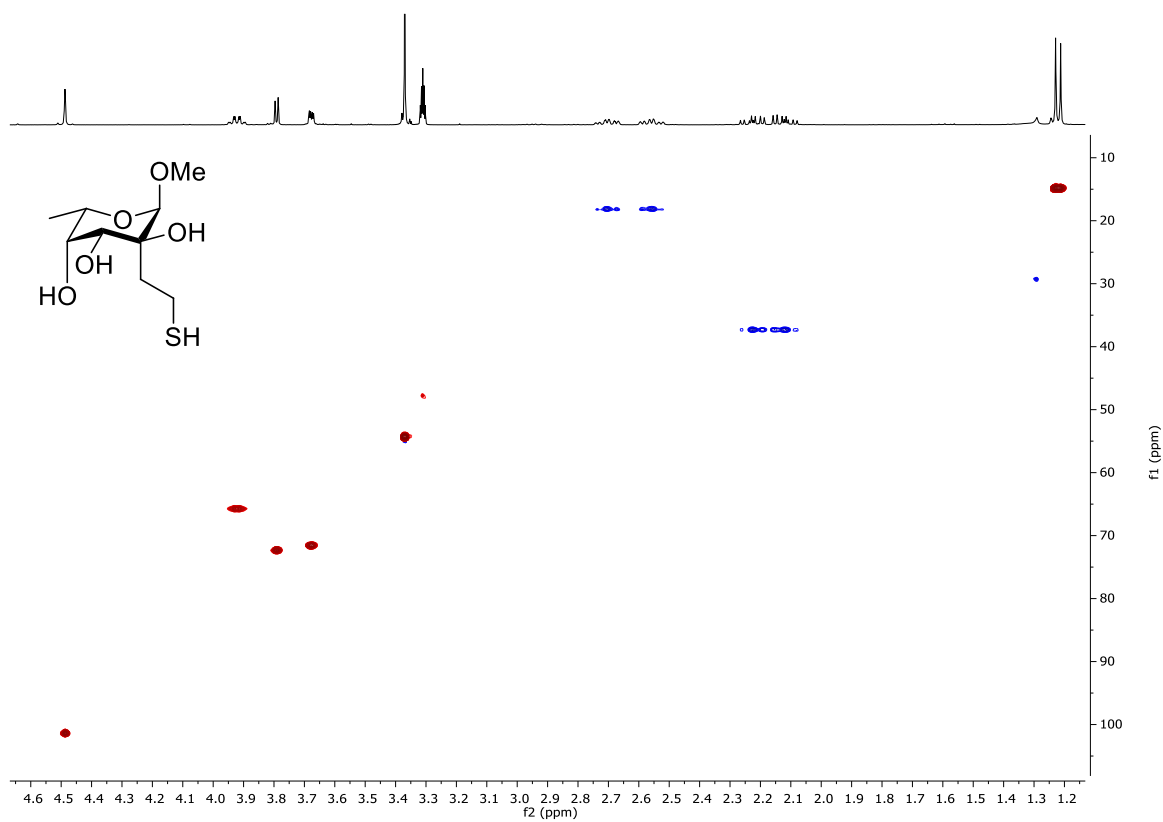
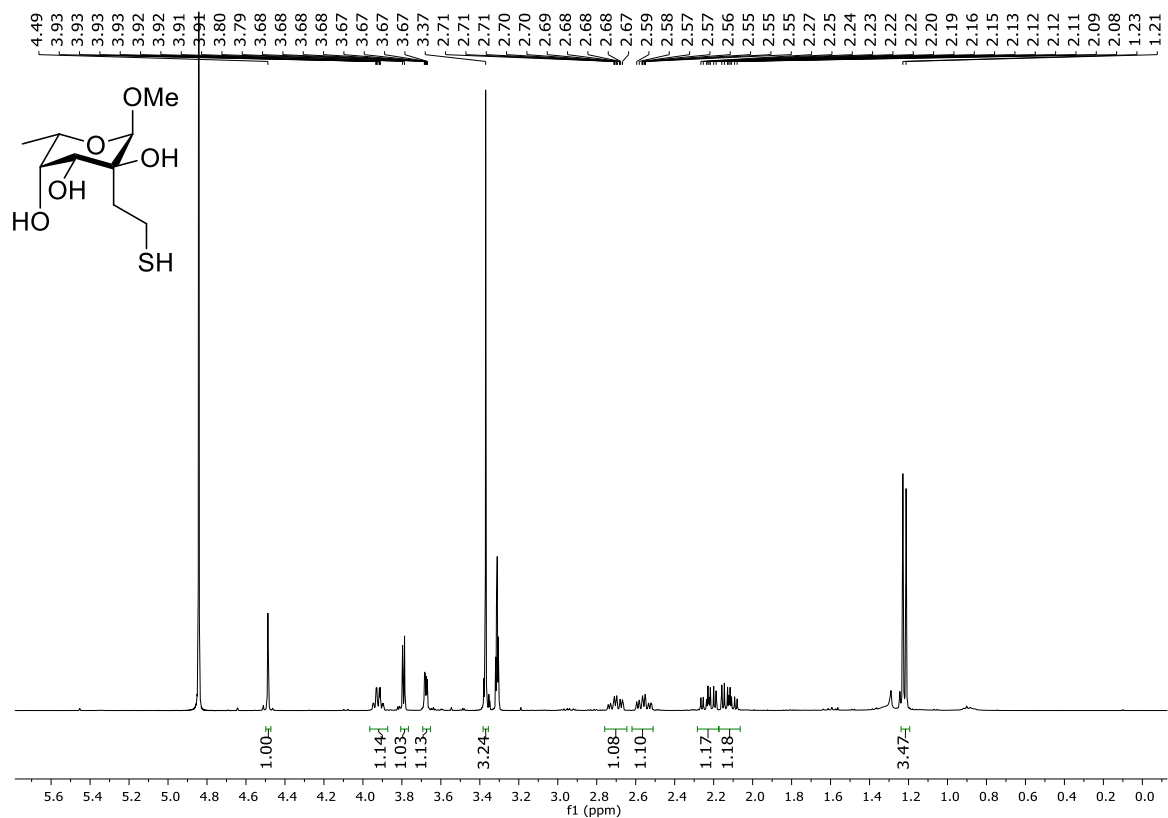


# Methyl 2-C-[3-acetylthiopropyl]-6-deoxy- $\alpha$ -L-talopyranoside (15)

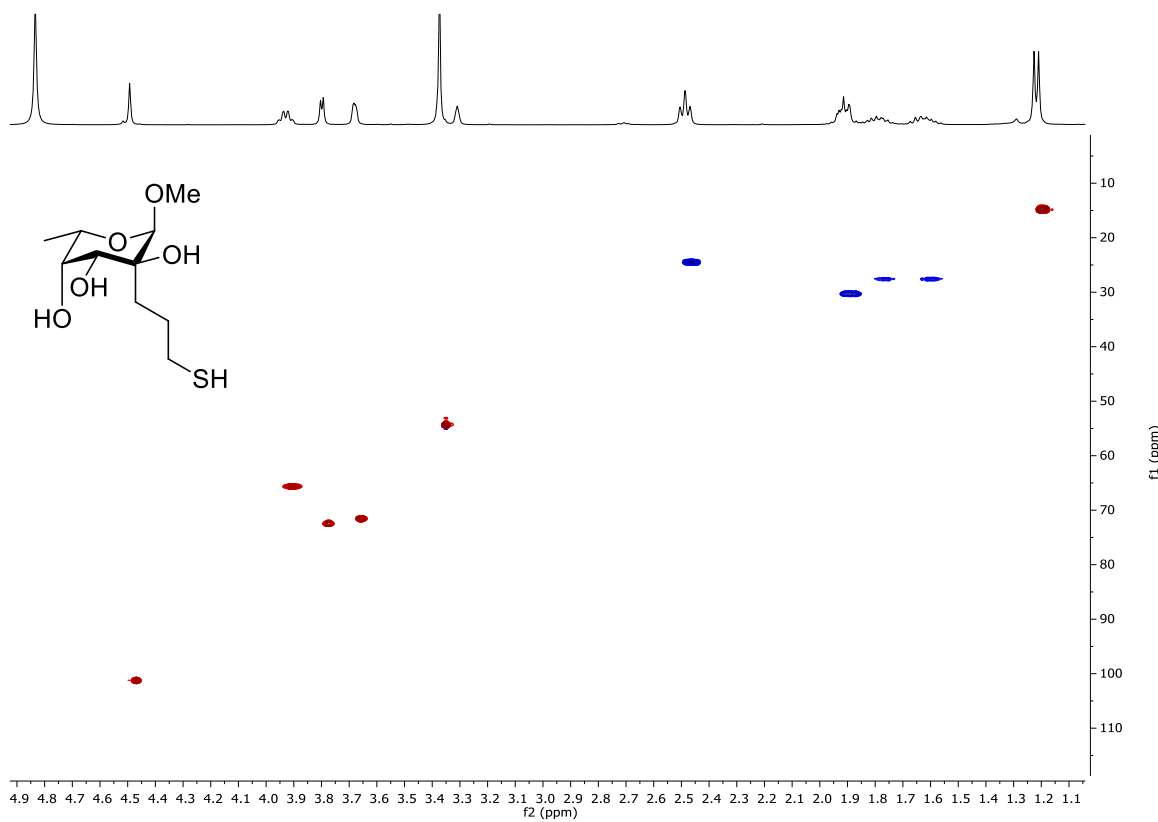
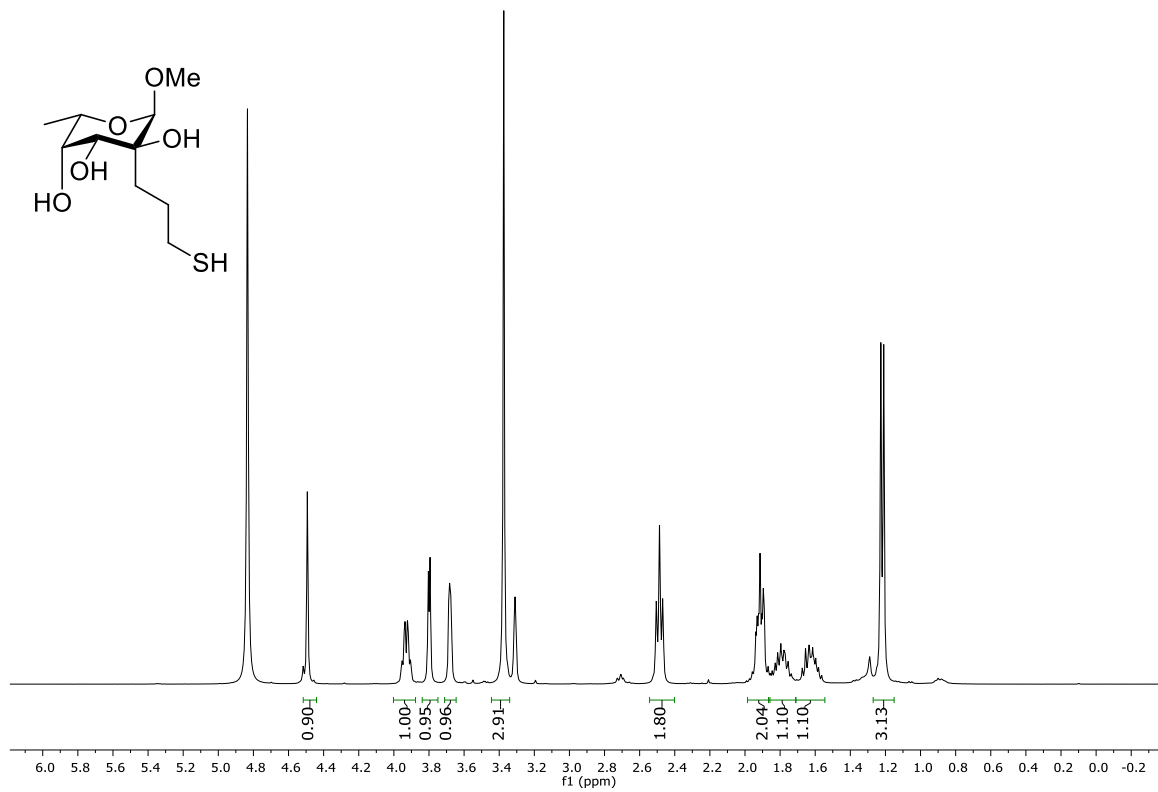




# Methyl 2-C-[2-thioethyl]- $\alpha$ -L-fucopyranoside (1)

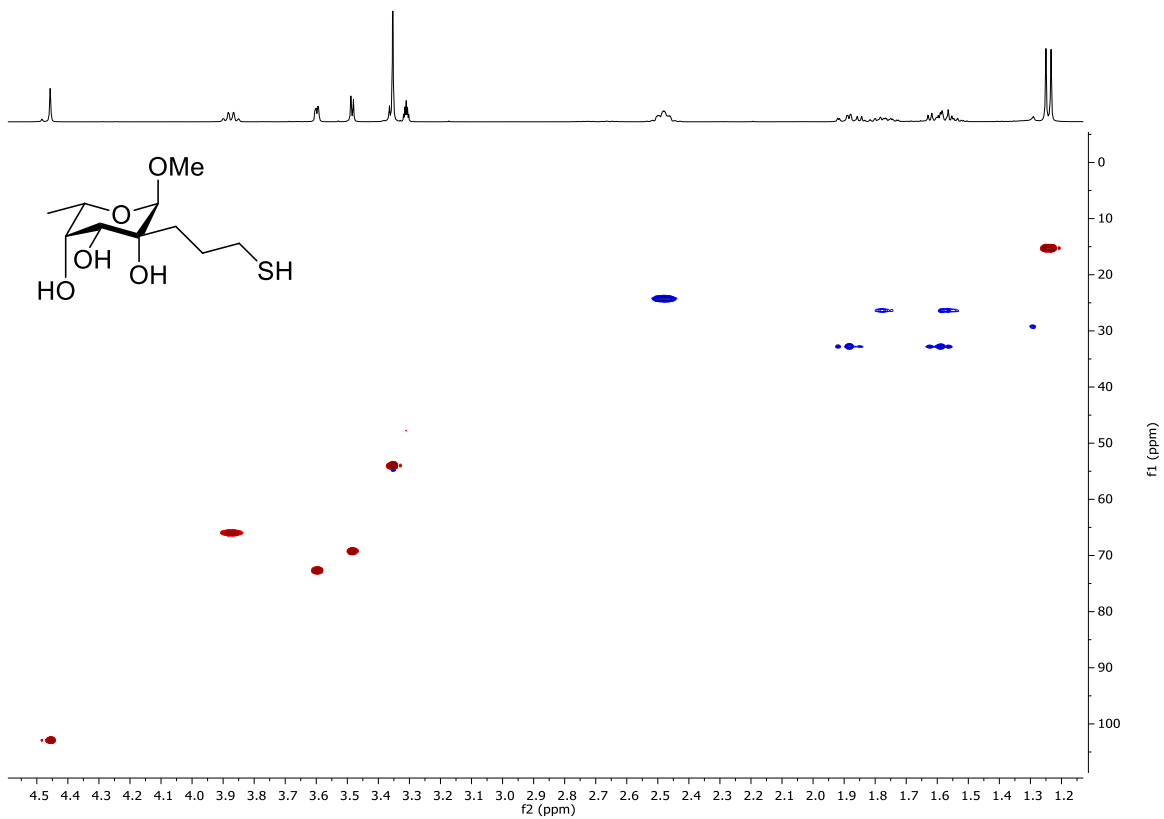
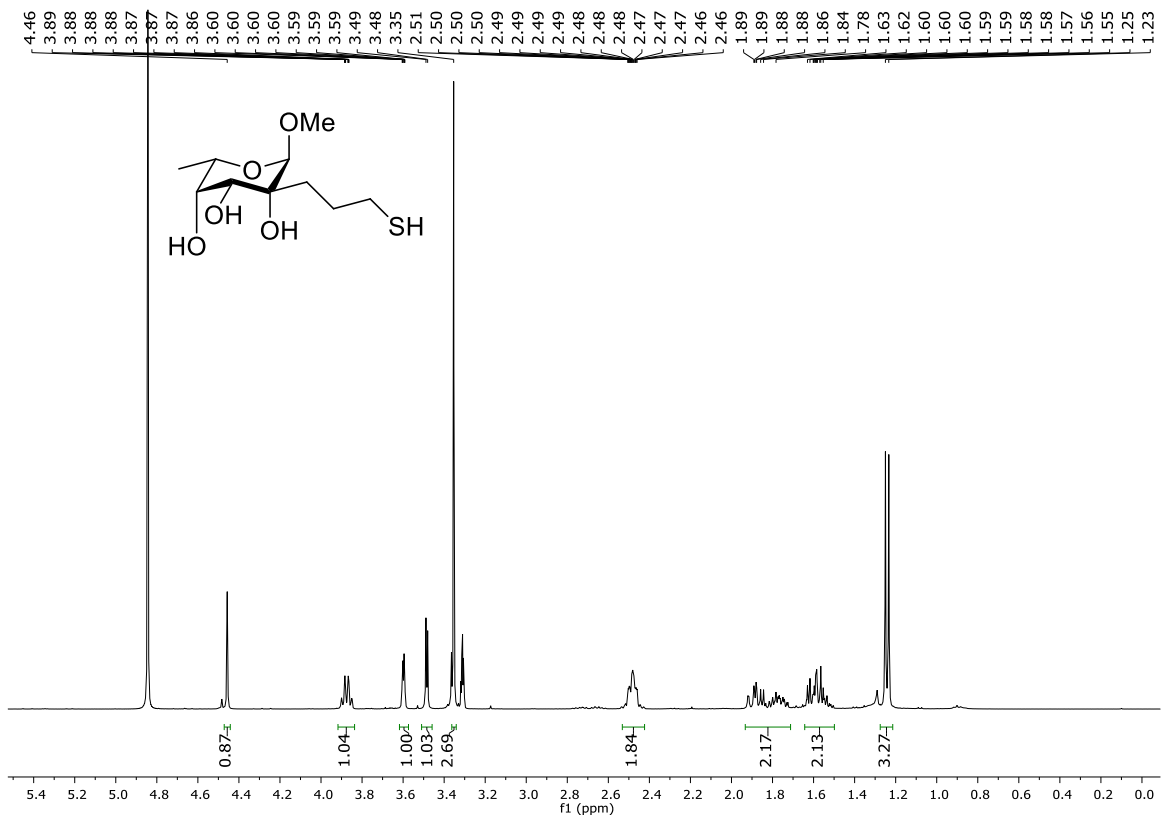


# Methyl 2-C-[3-thiopropyl]- $\alpha$ -L-fucopyranoside (2)

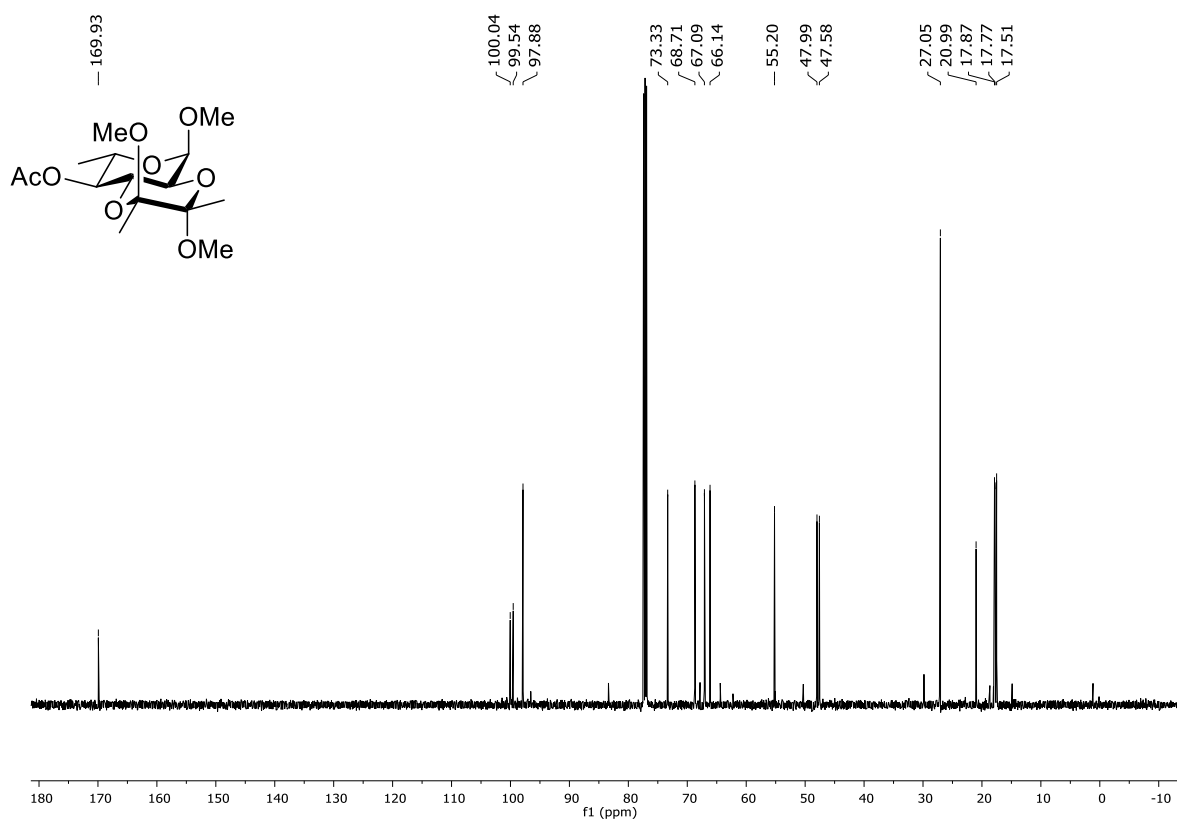
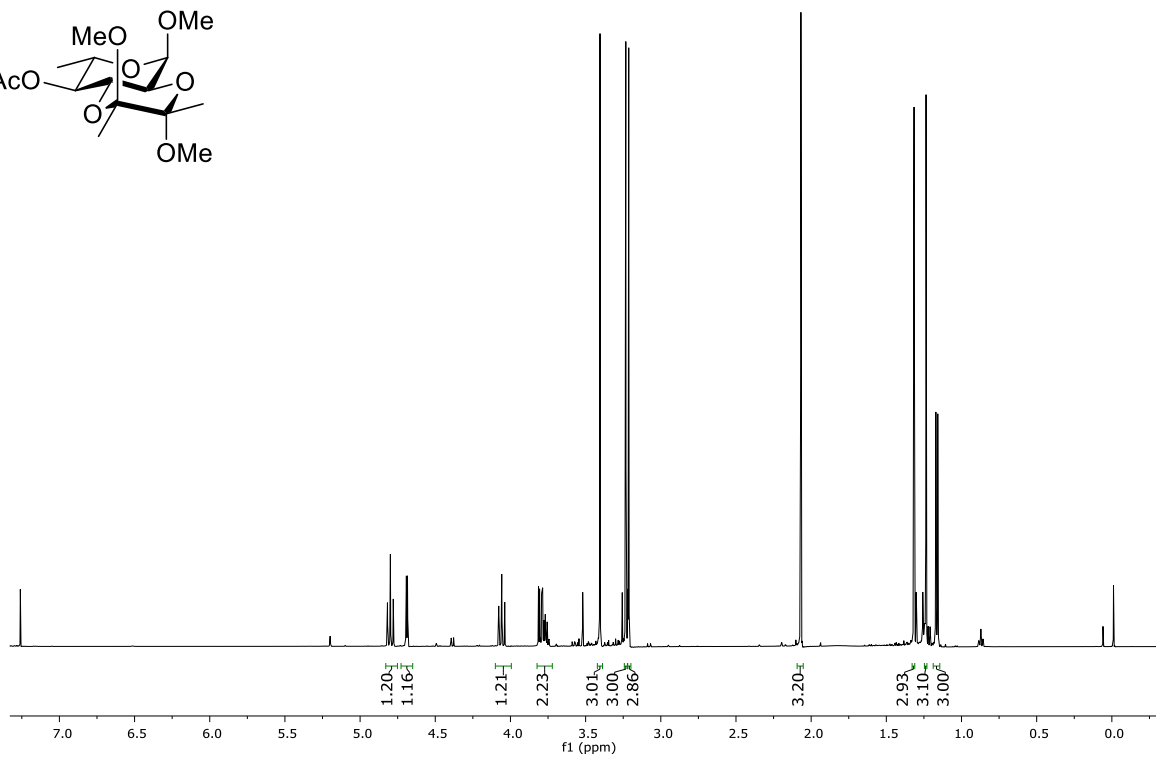
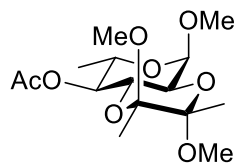


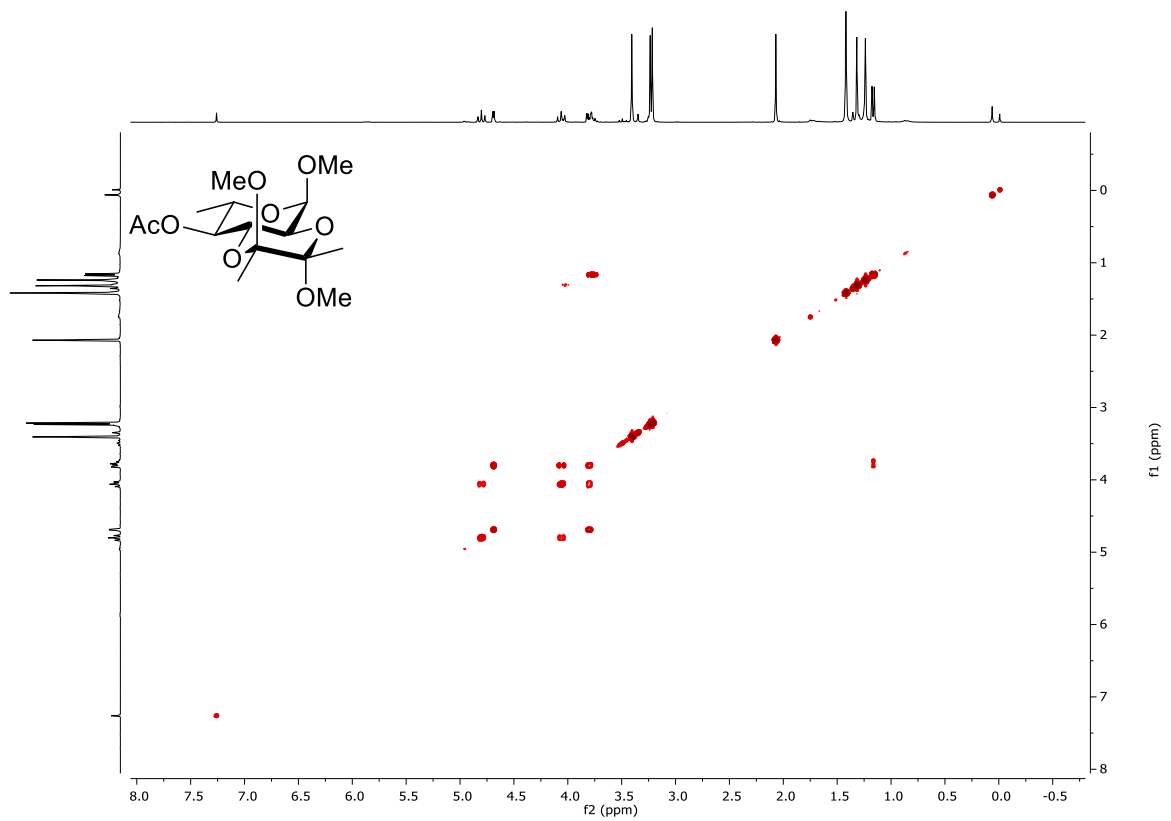
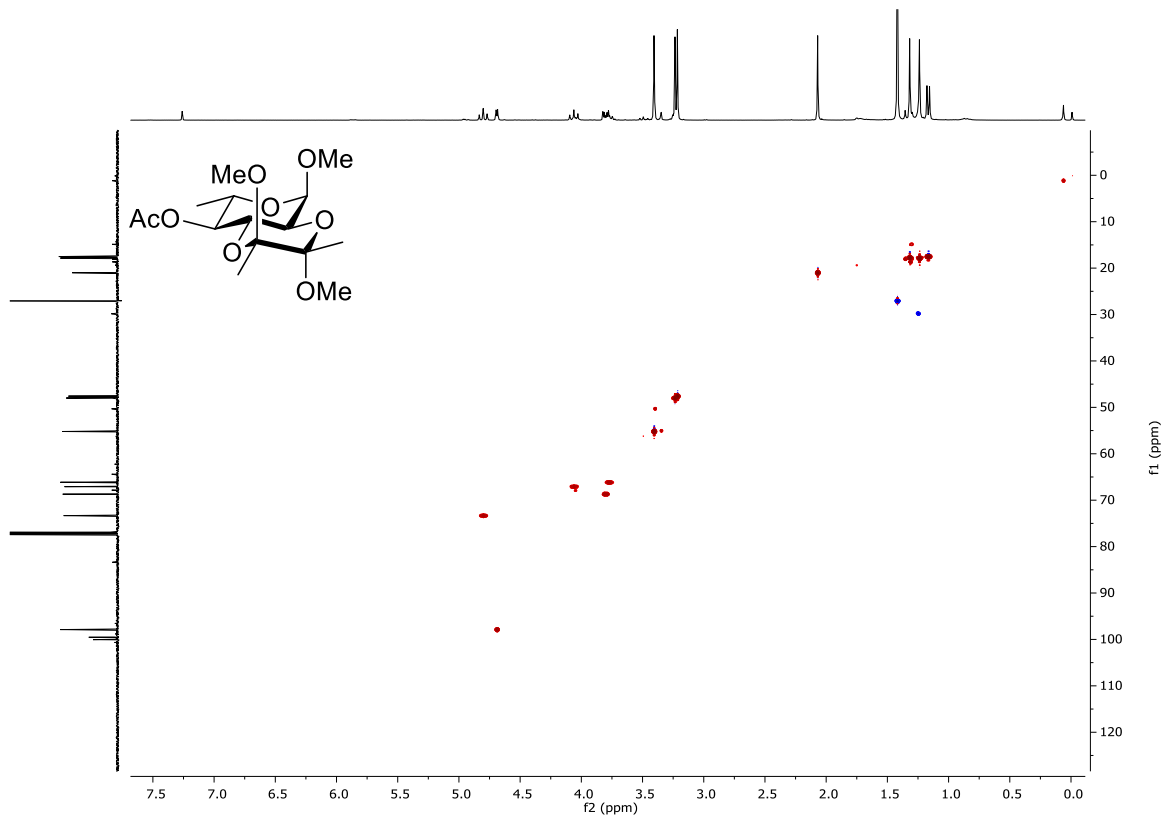


# Methyl 6-deoxy-2-C-[3-thiopropyl]- $\alpha$ -L-talopyranoside (4)

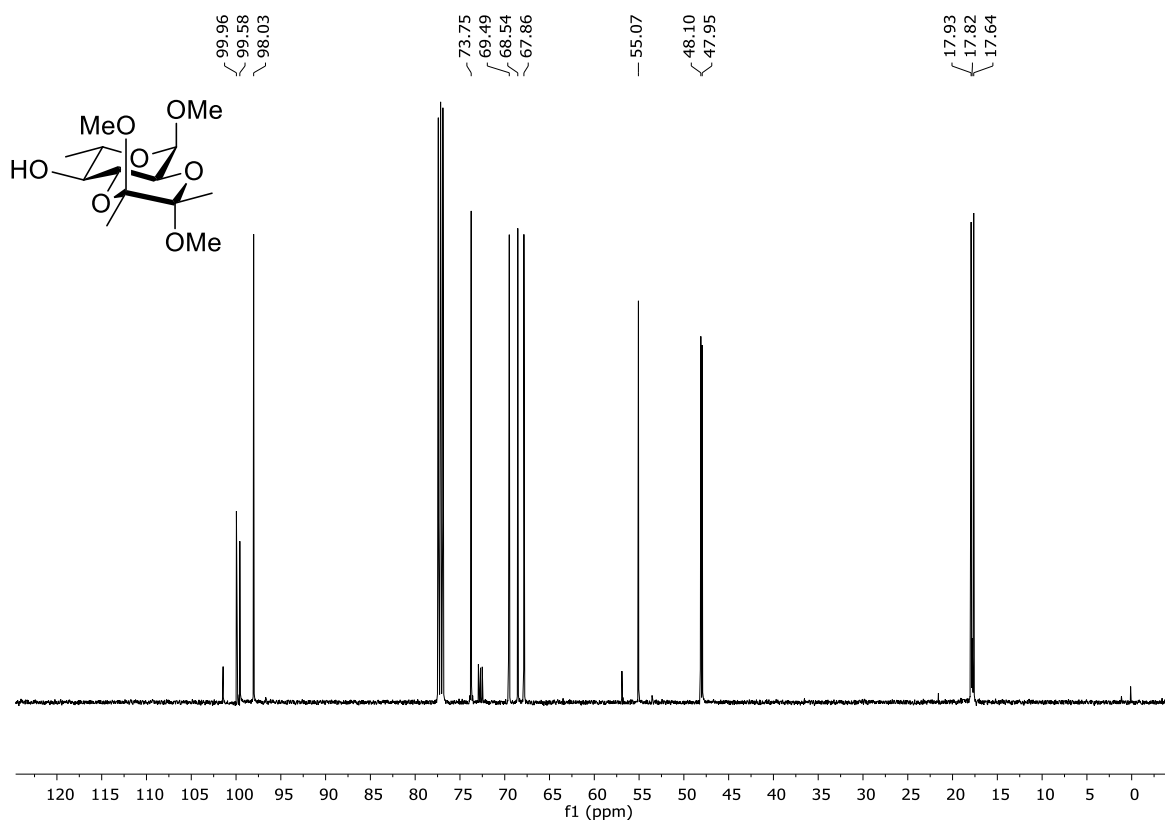
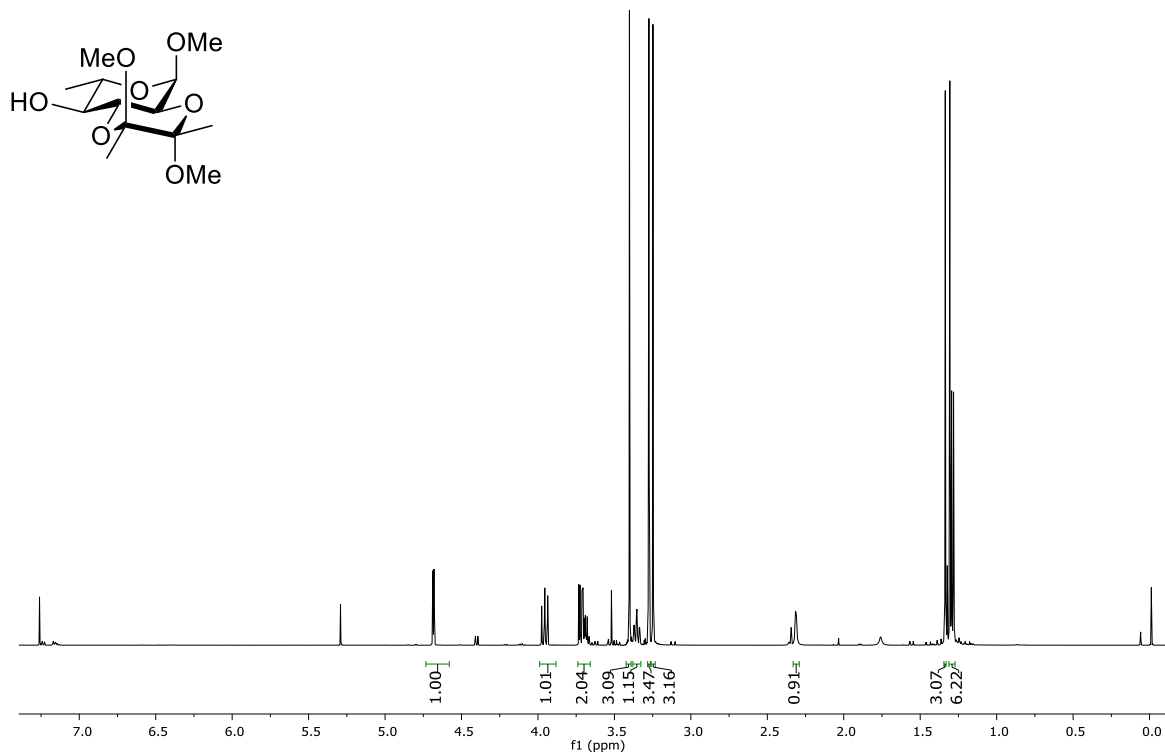


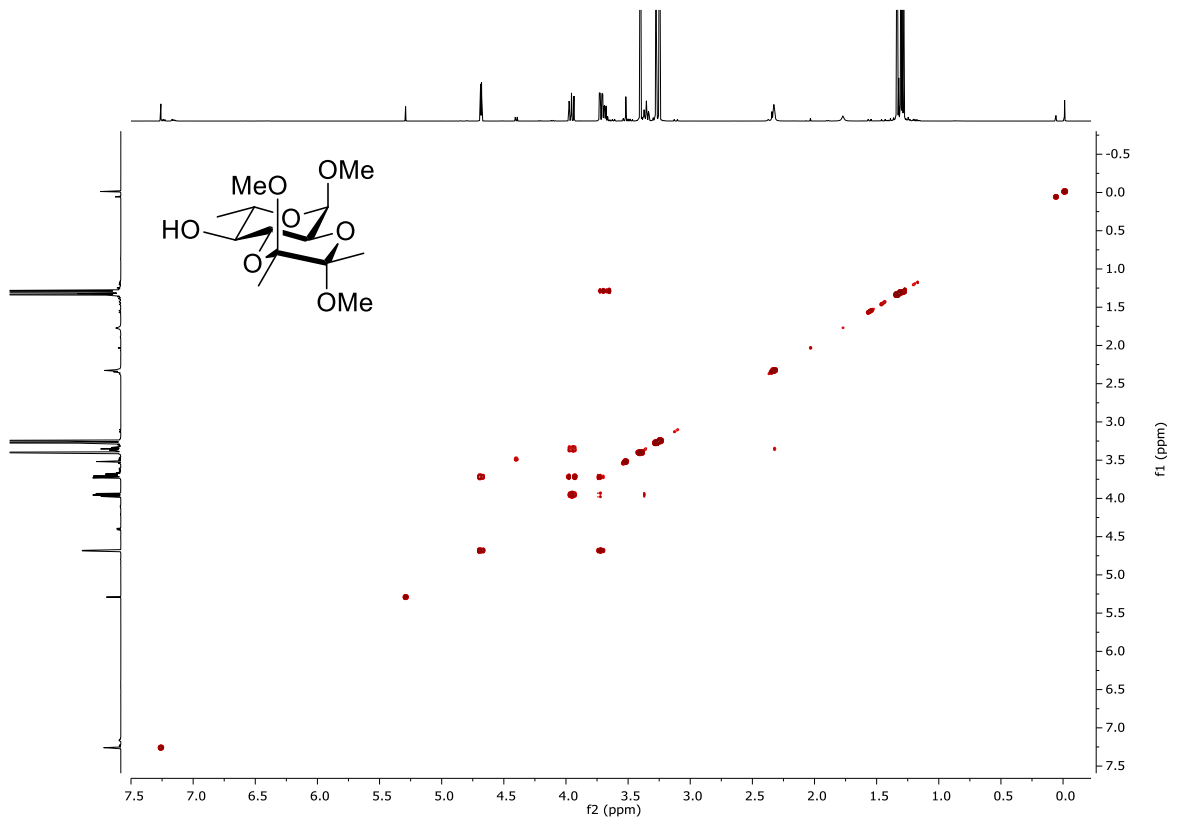
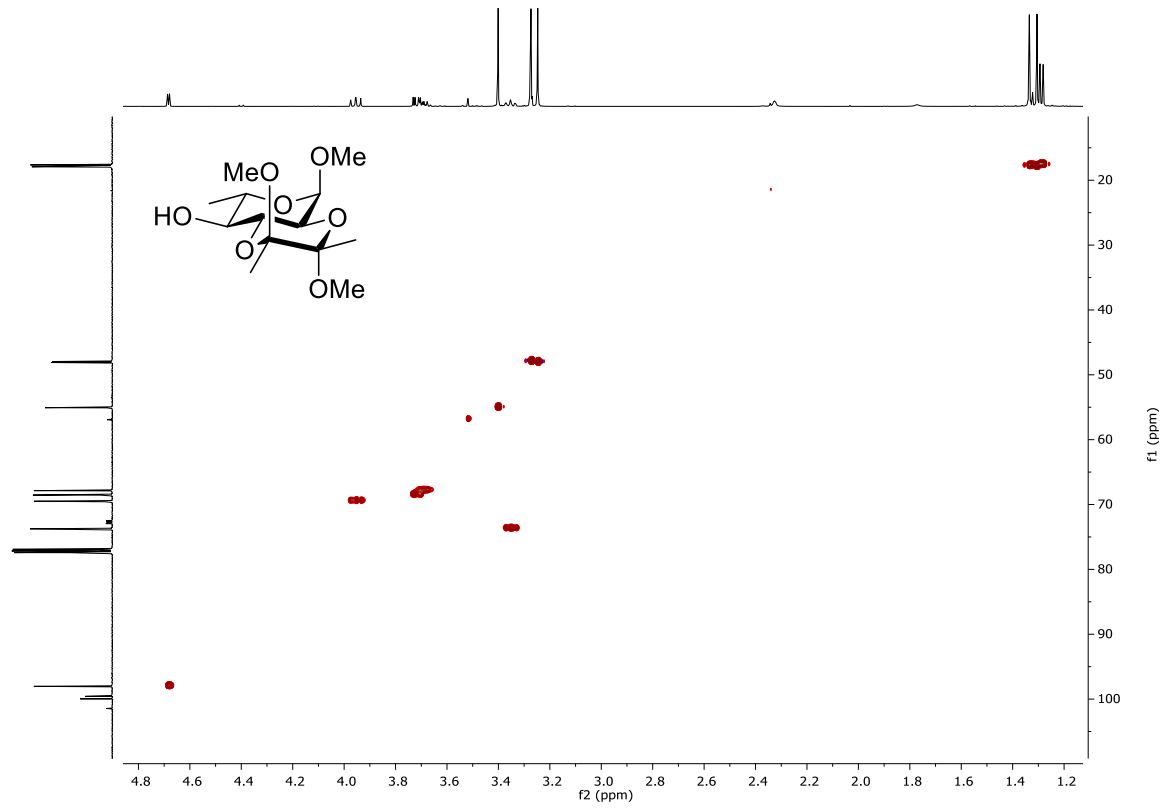
# Methyl 4-O-acetyl-2,3-O-(2',3'-dimethoxybutane-2',3'-diyl)- $\alpha$ -L-quinovopyranoside (17)



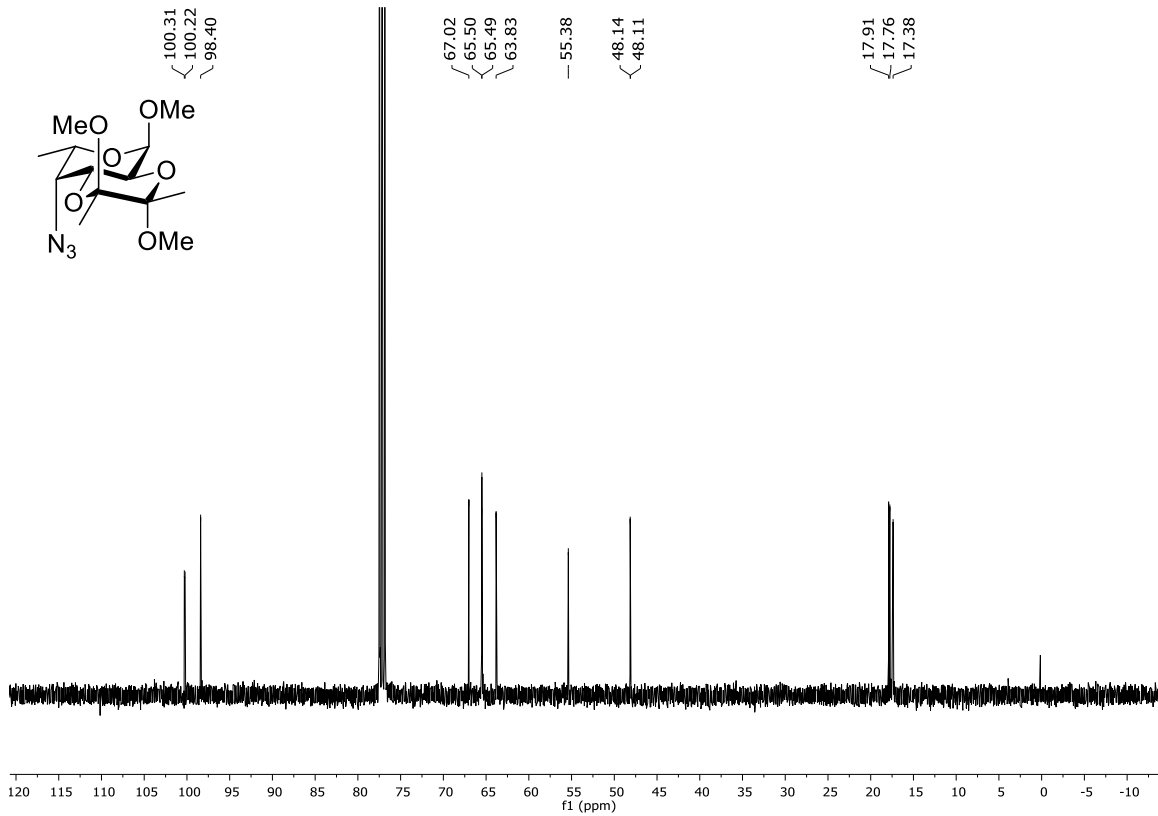
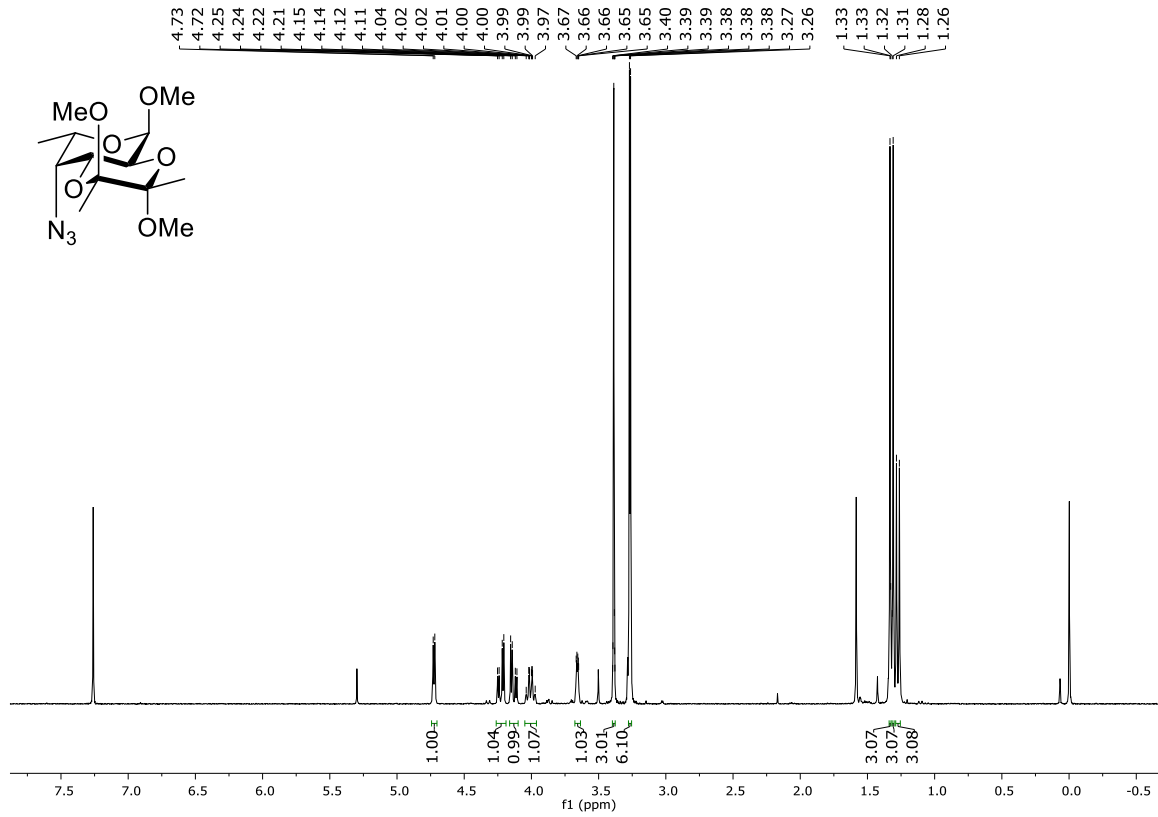


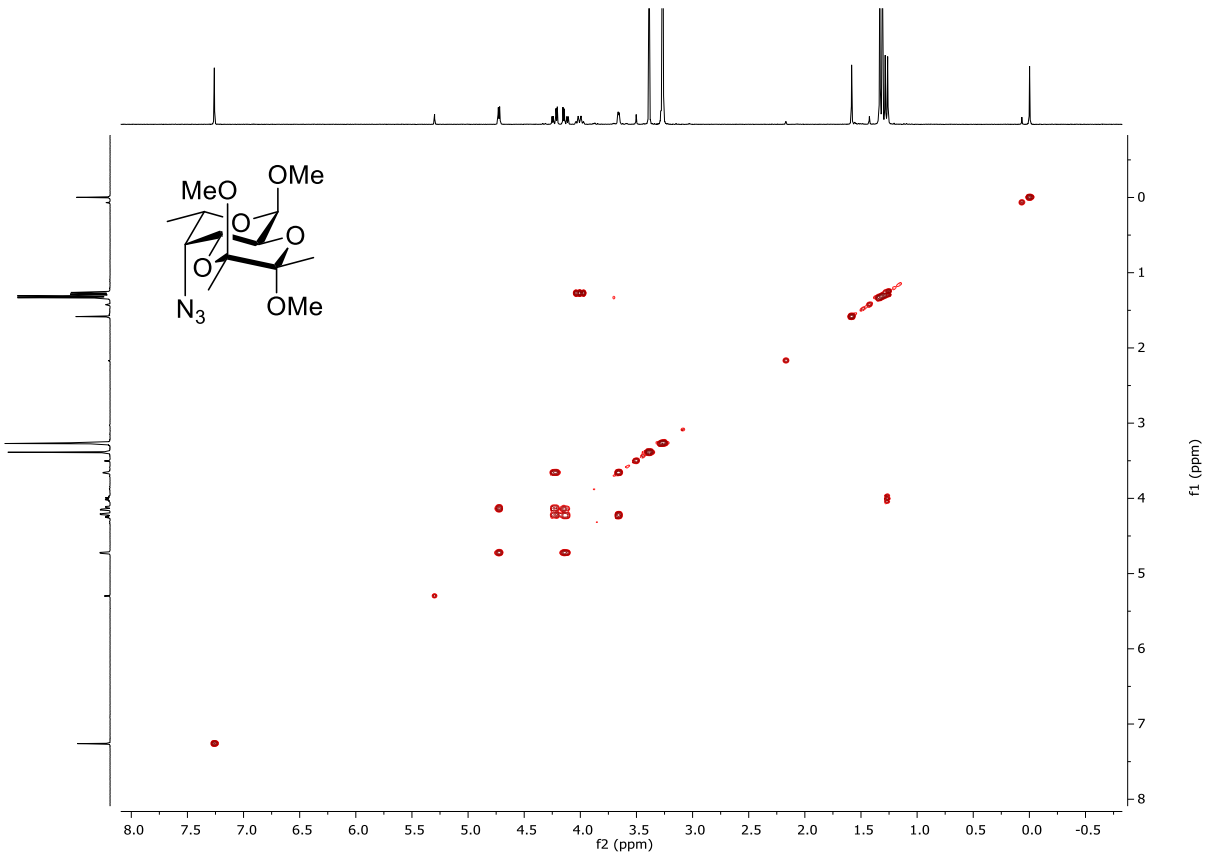
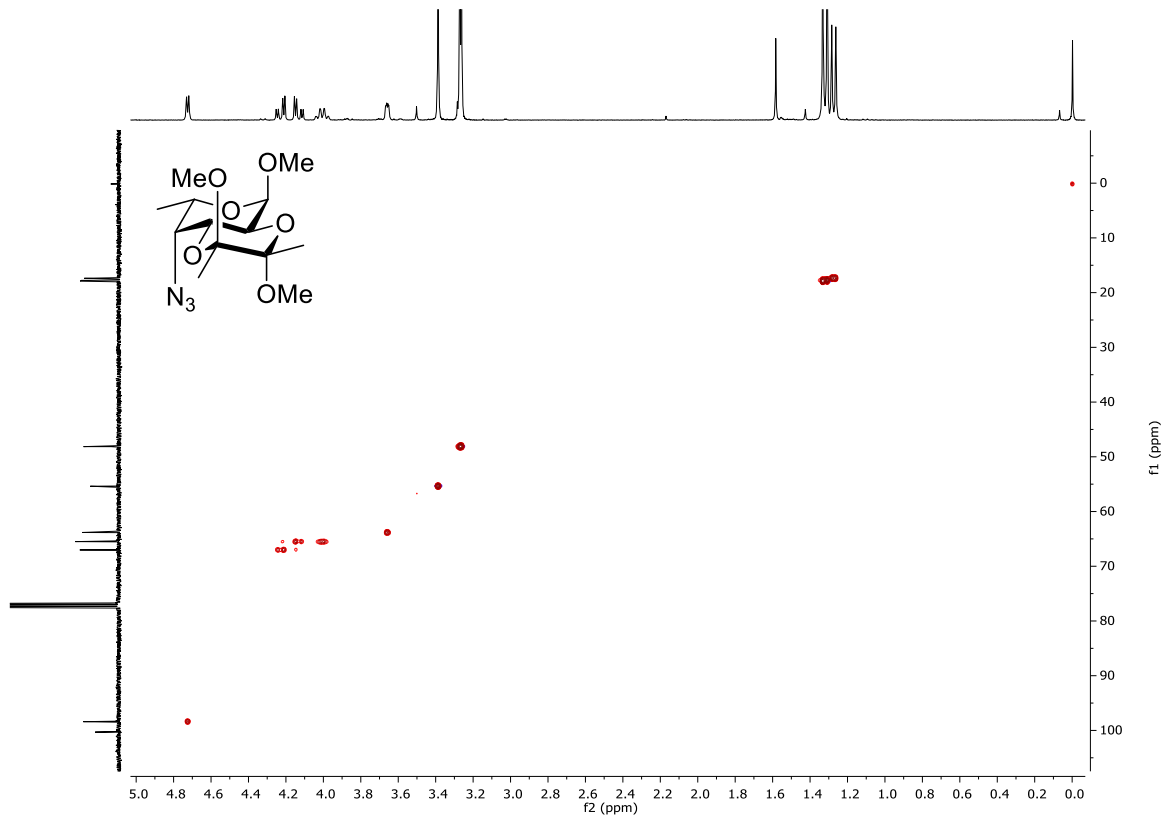
# Methyl 2,3-O-(2',3'-dimethoxybutane-2',3'-diyl)- $\alpha$ -L-quinovopyranoside (18)





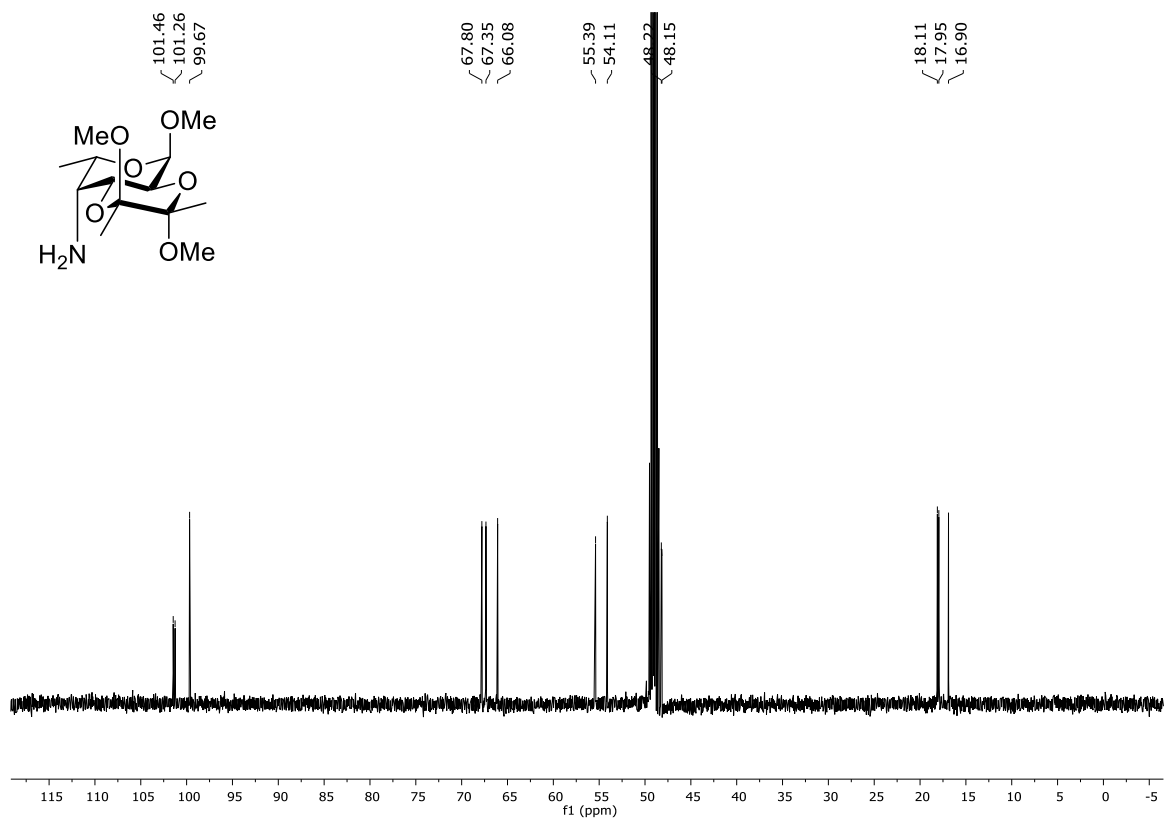
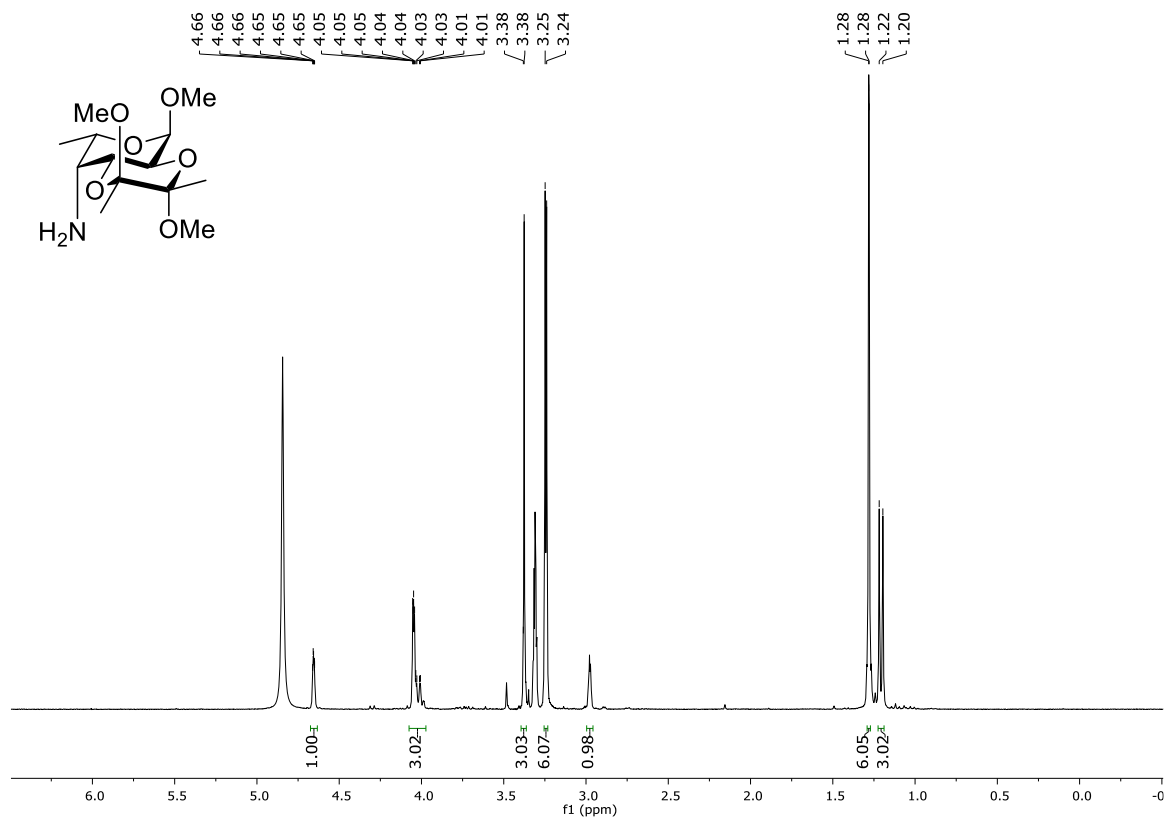
**Methyl 4-azido-4-deoxy-2,3-O-(2',3'-dimethoxybutane-2',3'-diyl)- $\alpha$ -L-fucopyranoside (19)**

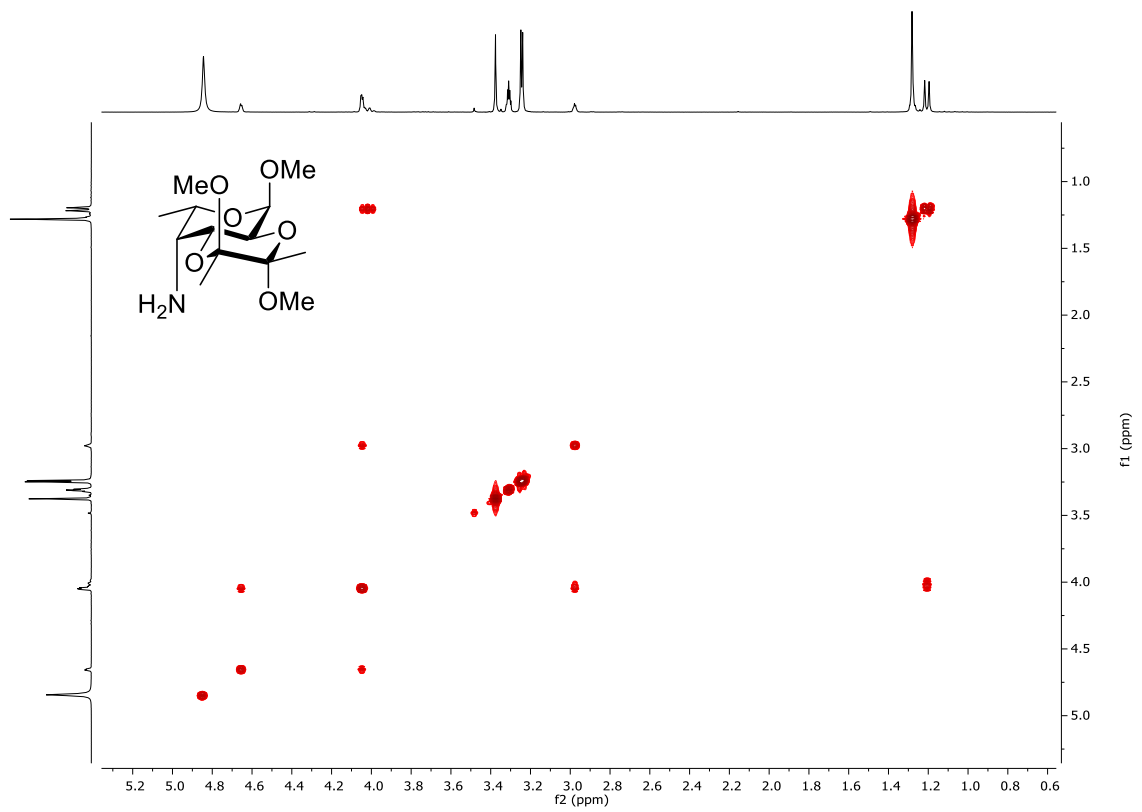
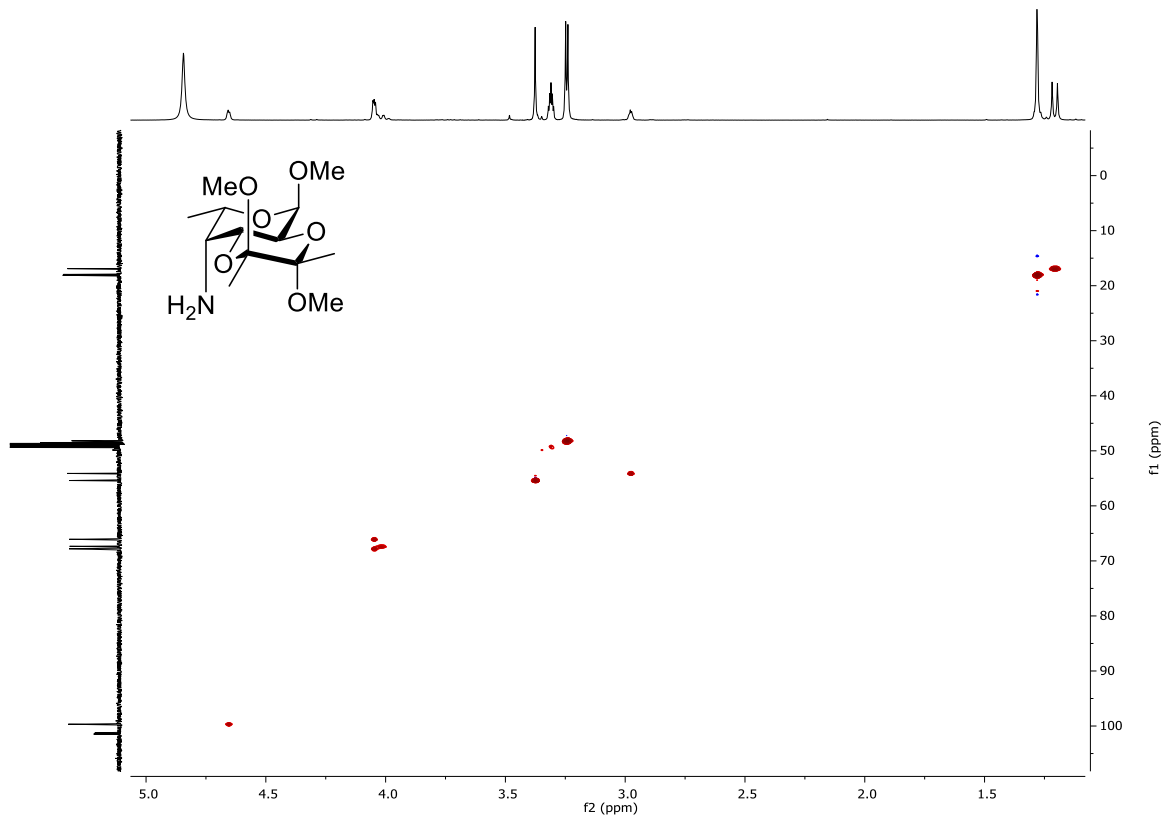




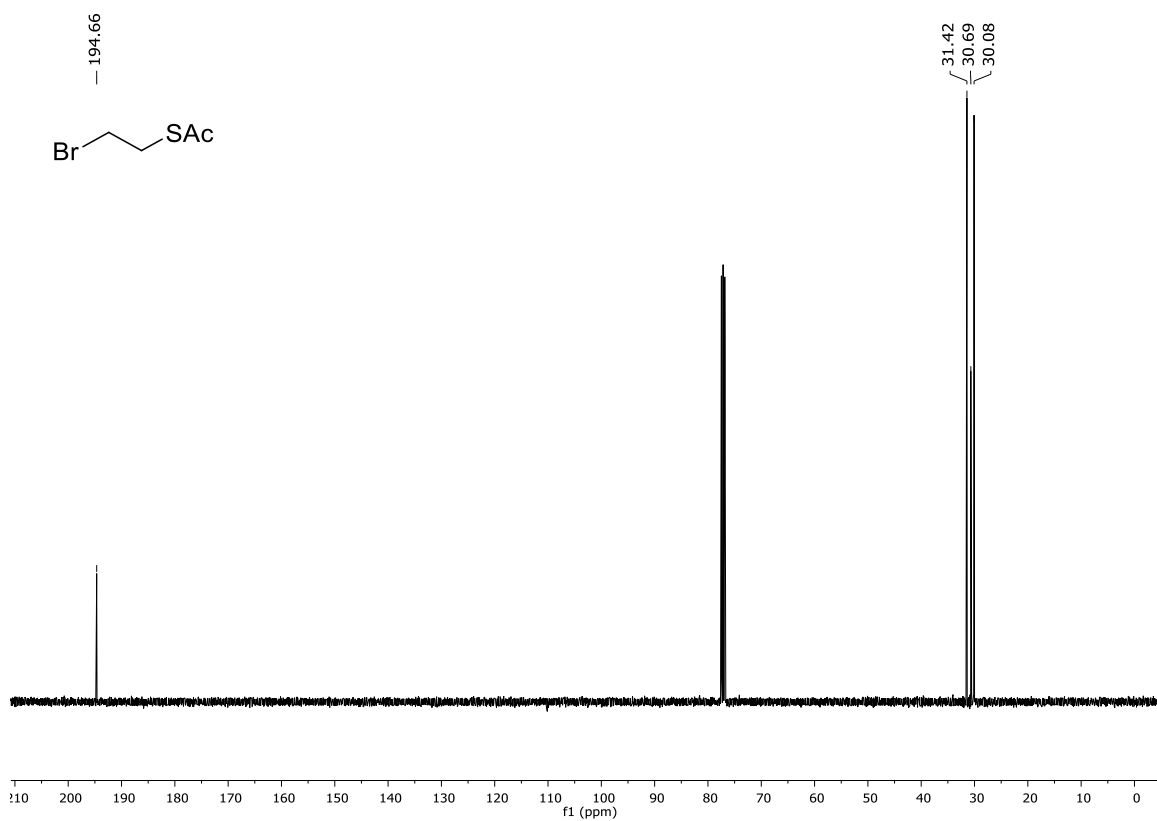
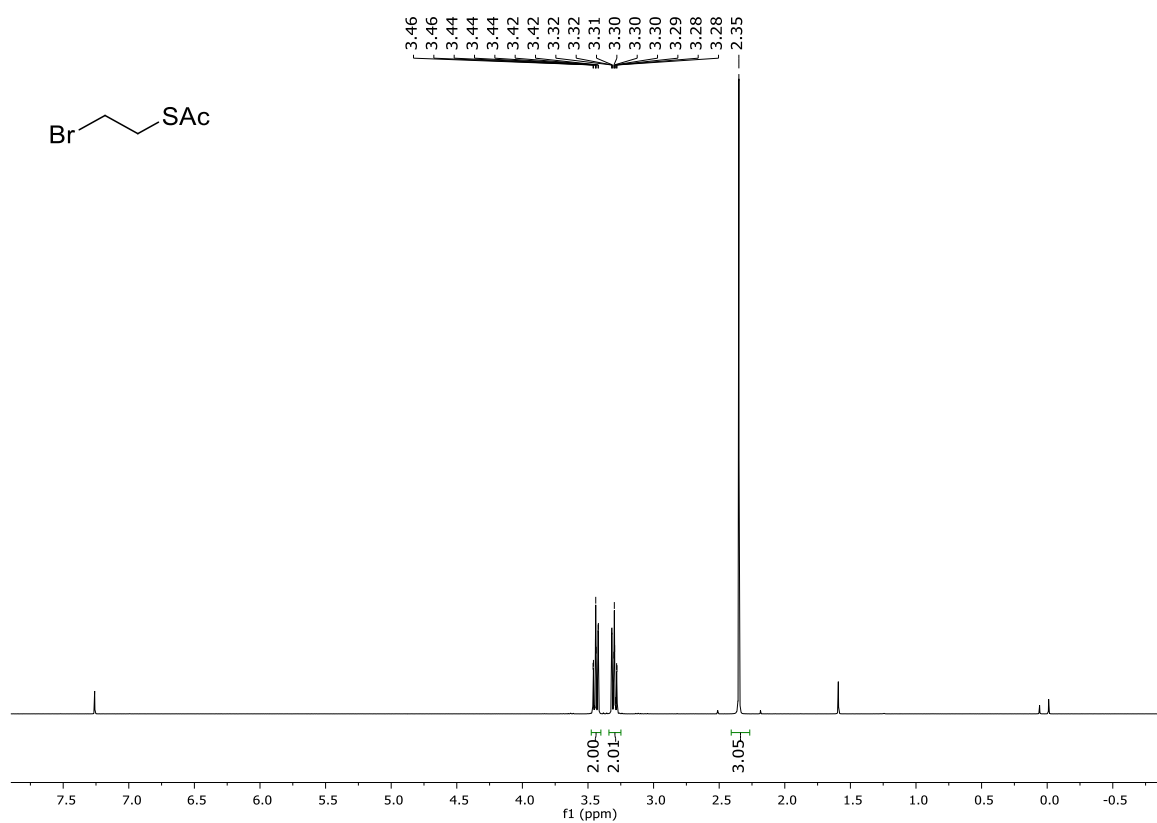
# Methyl 4-amino-4-deoxy-2,3-O-(2',3'-dimethoxybutane-2',3'-diyl)- $\alpha$ -L-fucopyranoside

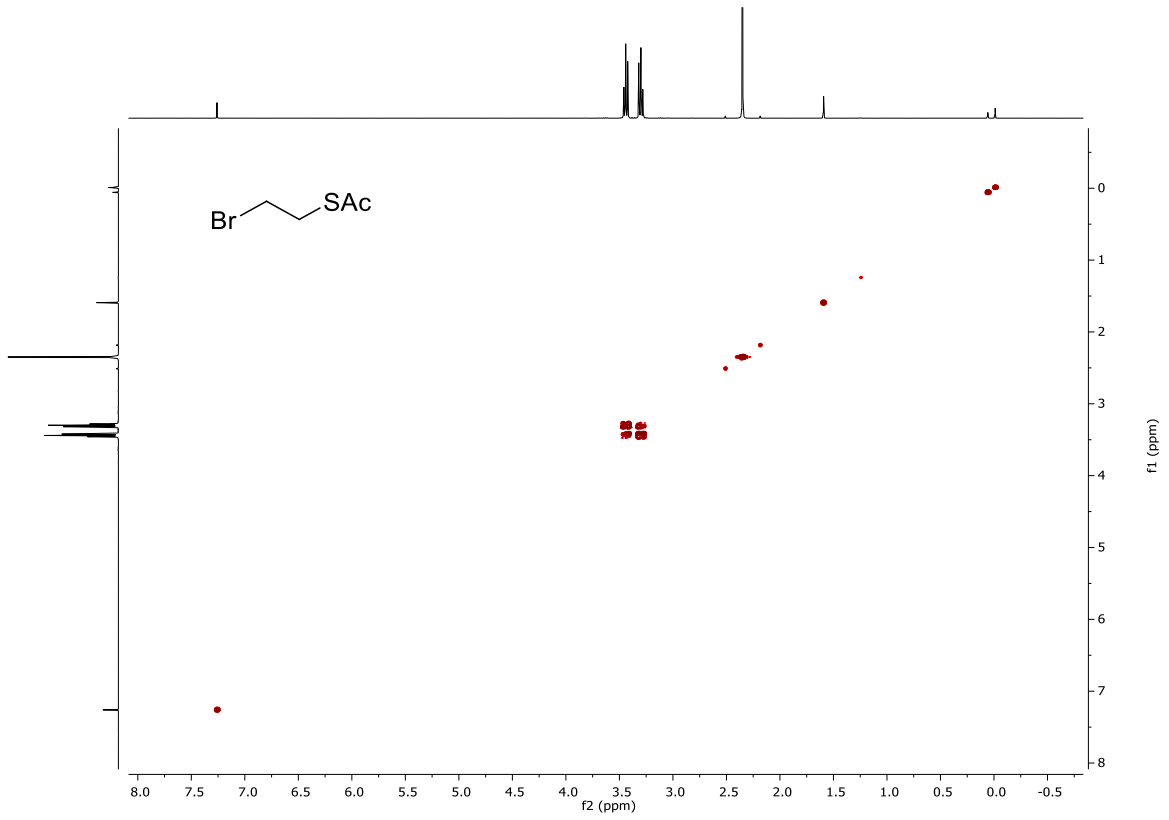
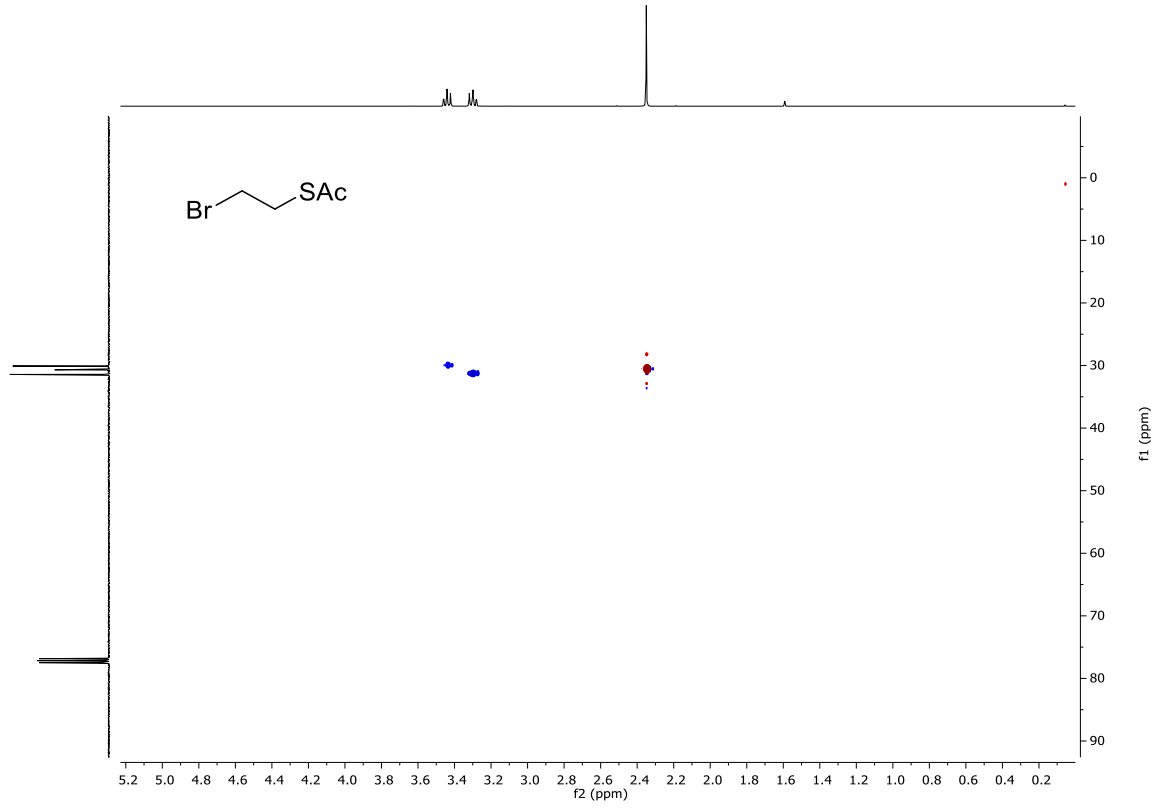
(20)



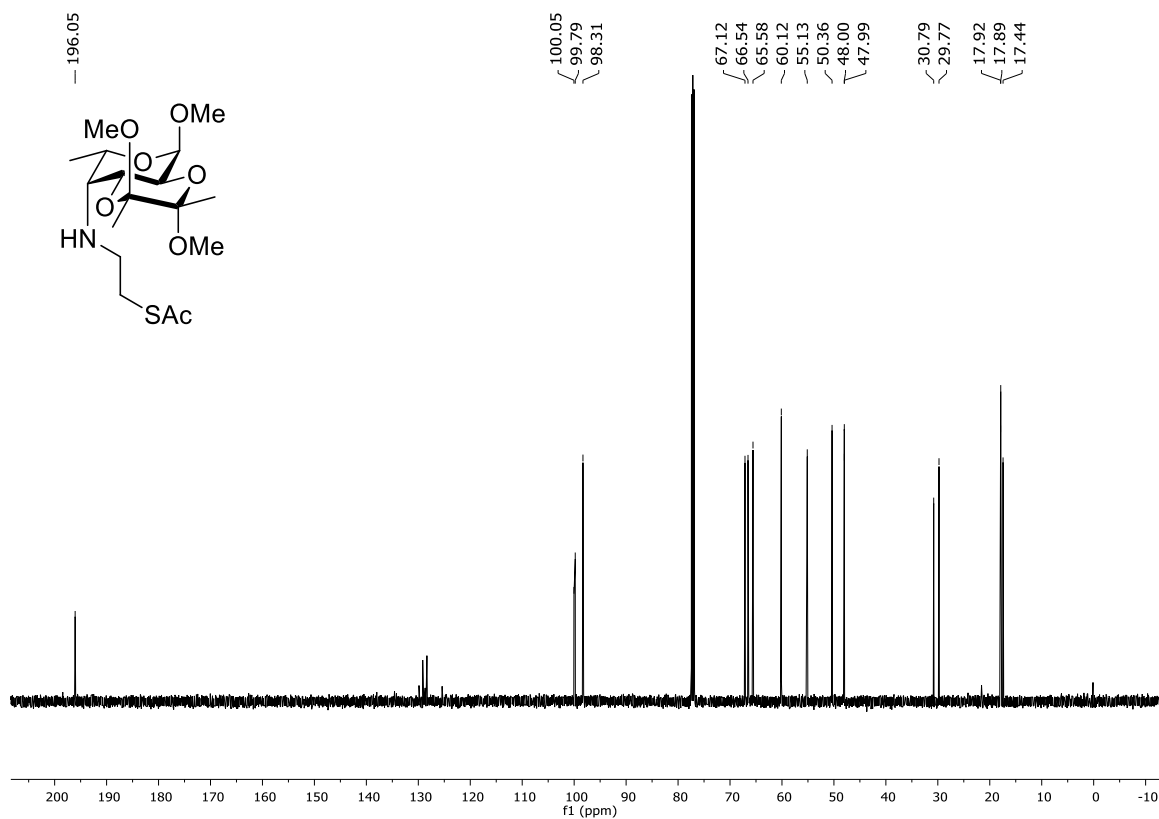
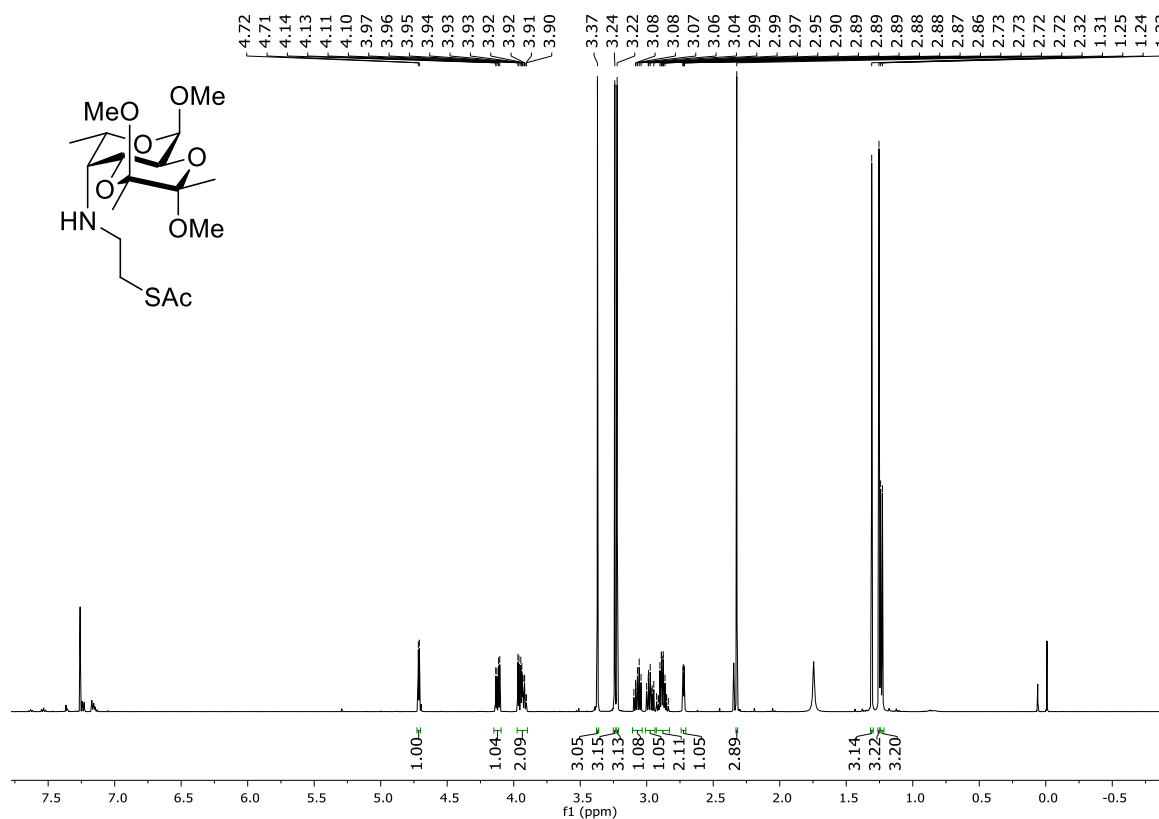


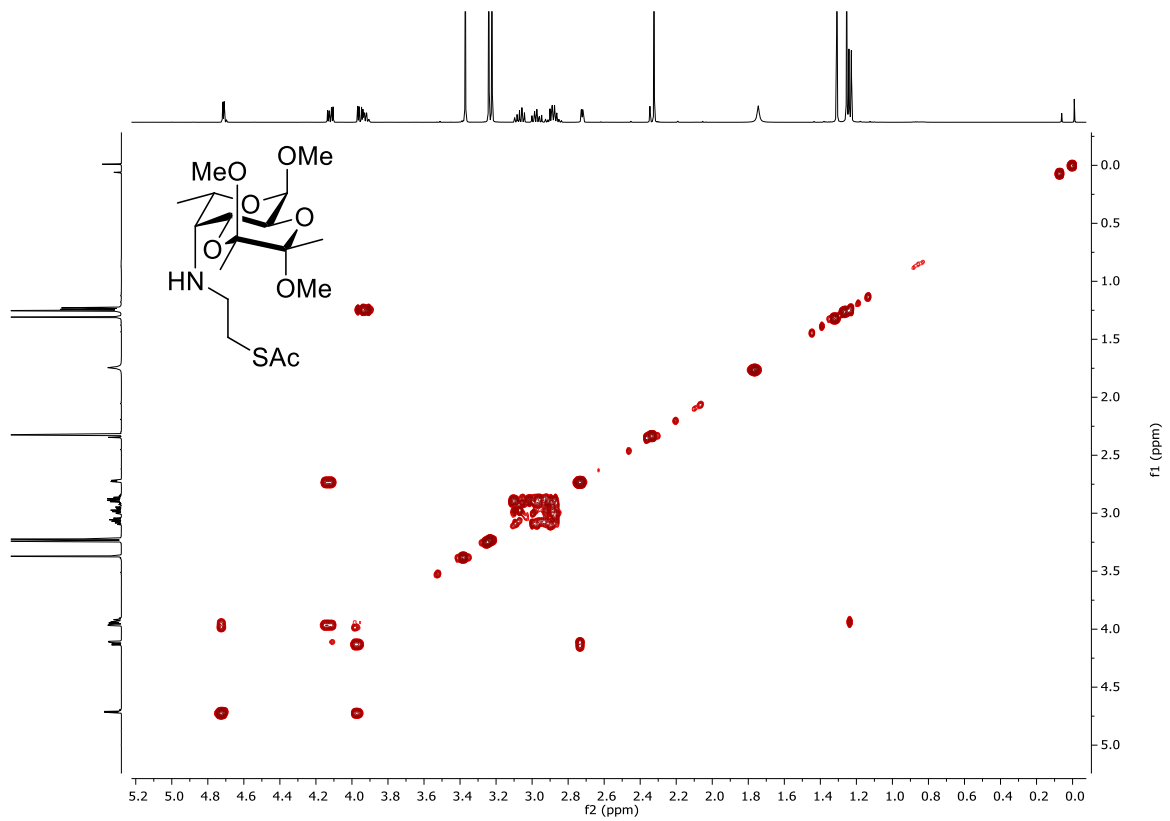
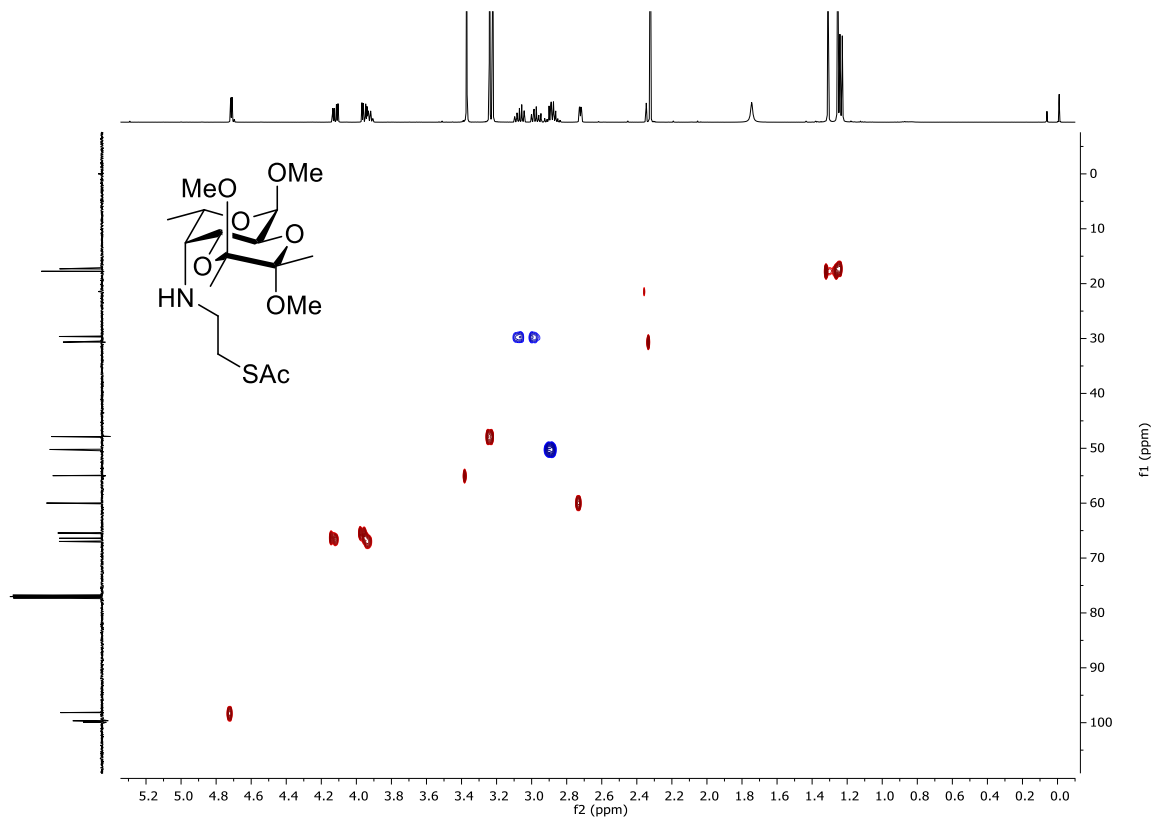
## 2-Bromoethyl thioacetate (21) [Ref. 31]



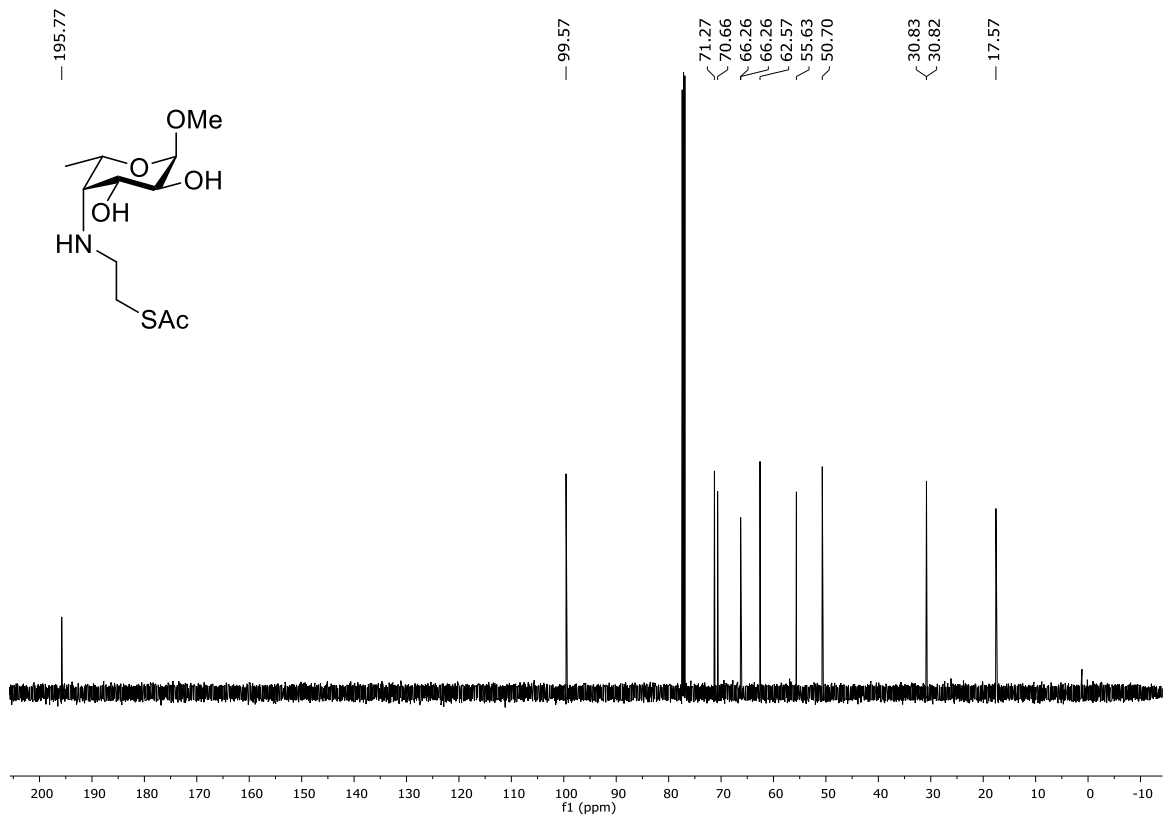
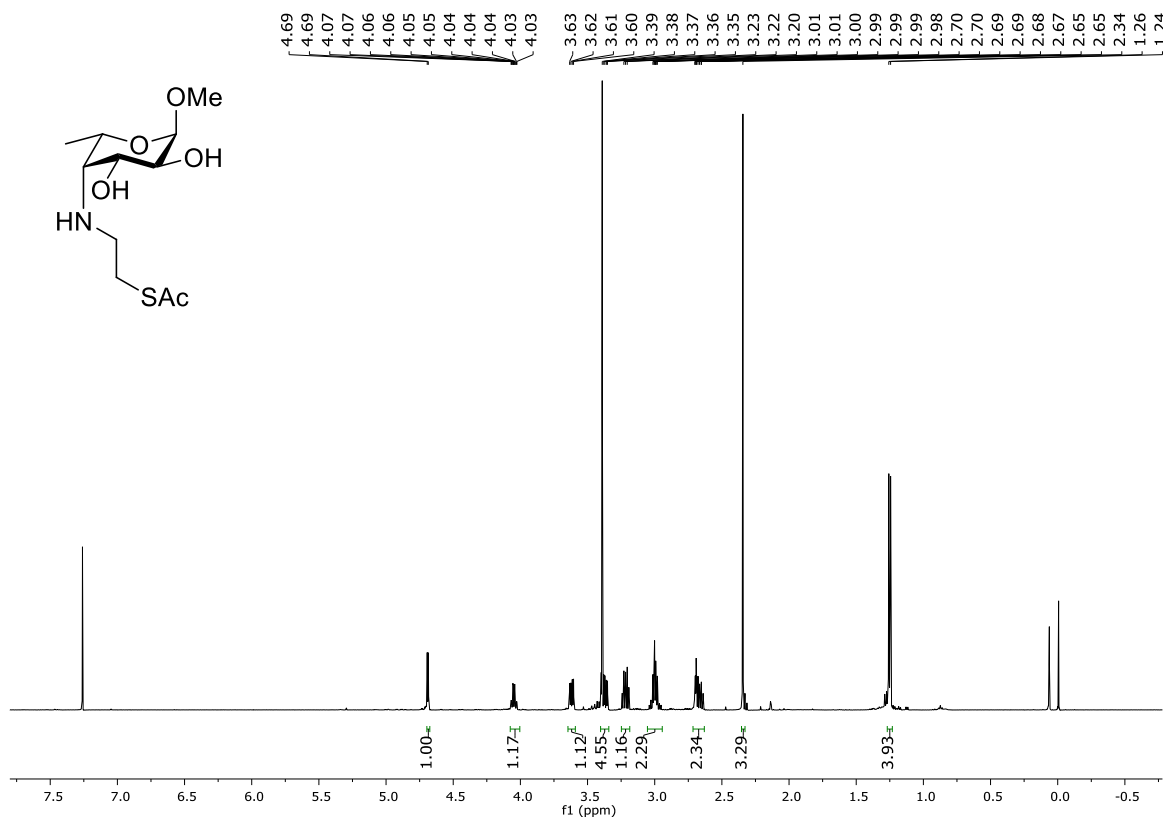


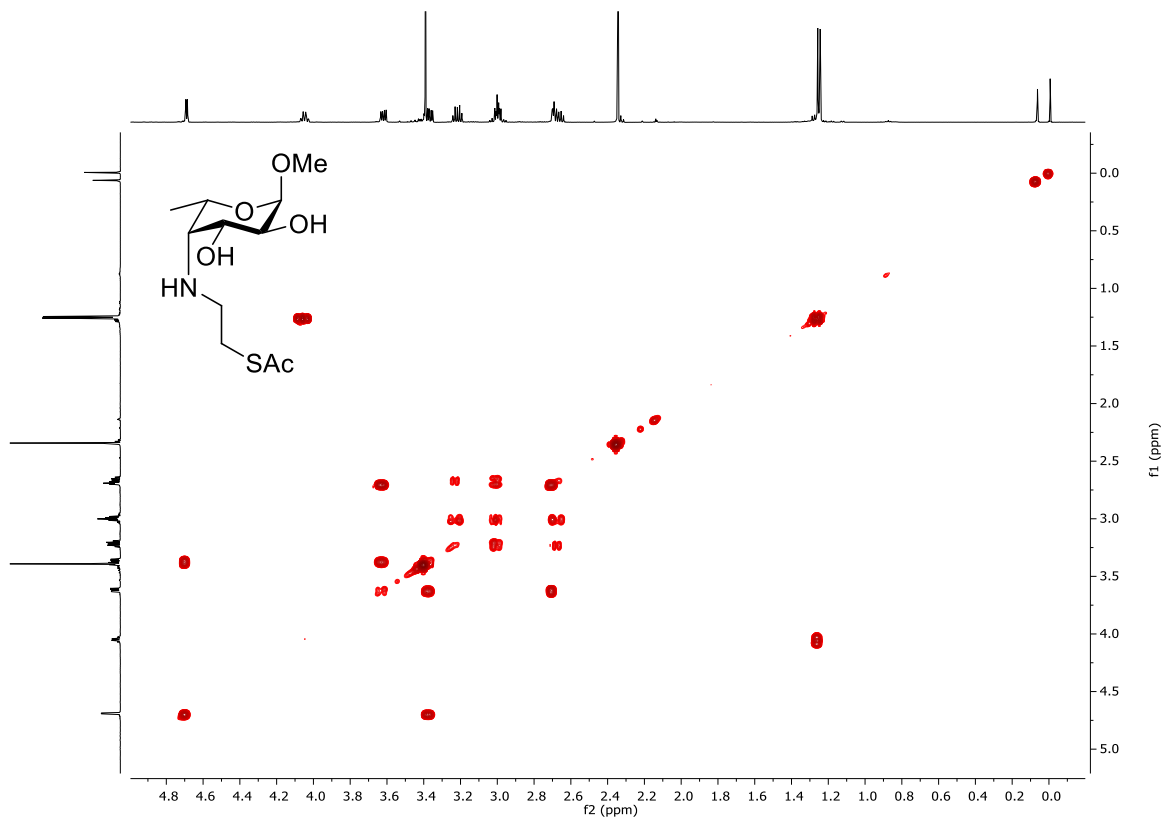
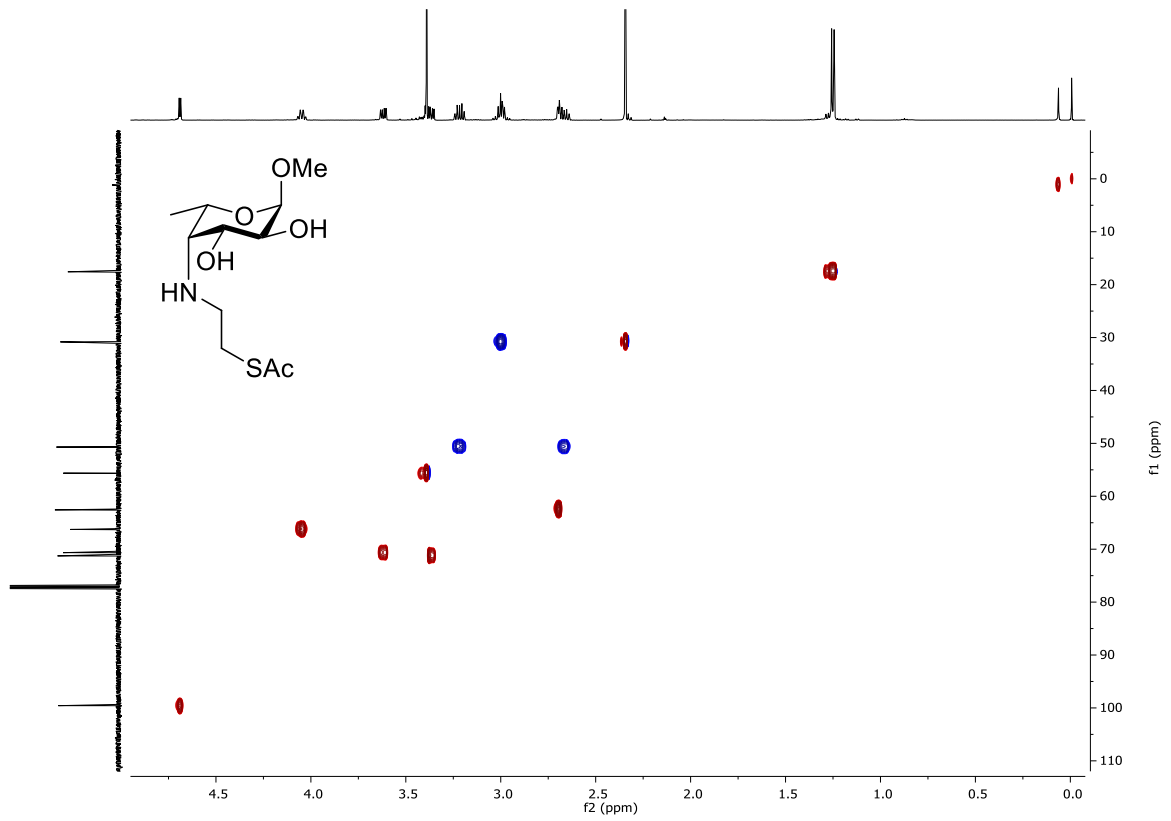
**Methyl 4-[(2-acetylthioethyl)amino]-4-deoxy-2,3-O-(2',3'-dimethoxybutane-2',3'-diyl)- $\alpha$ -L-fucopyranoside (22)**



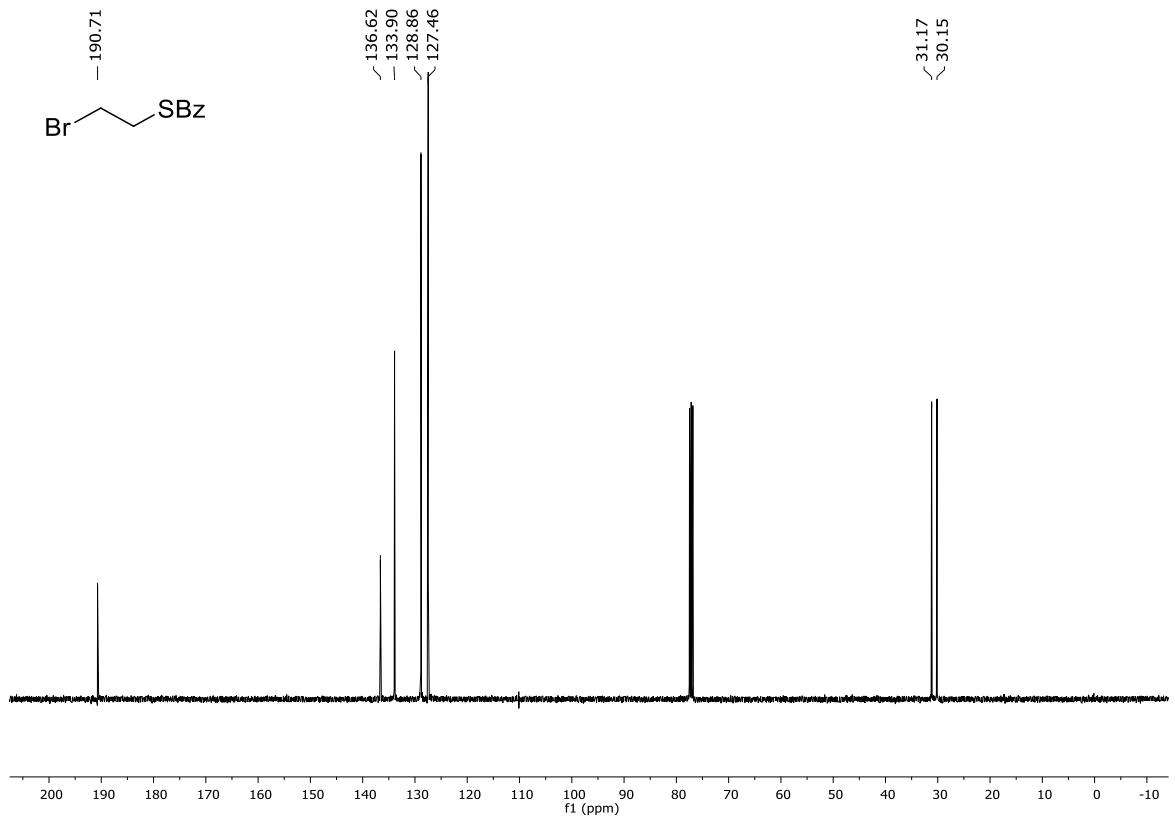
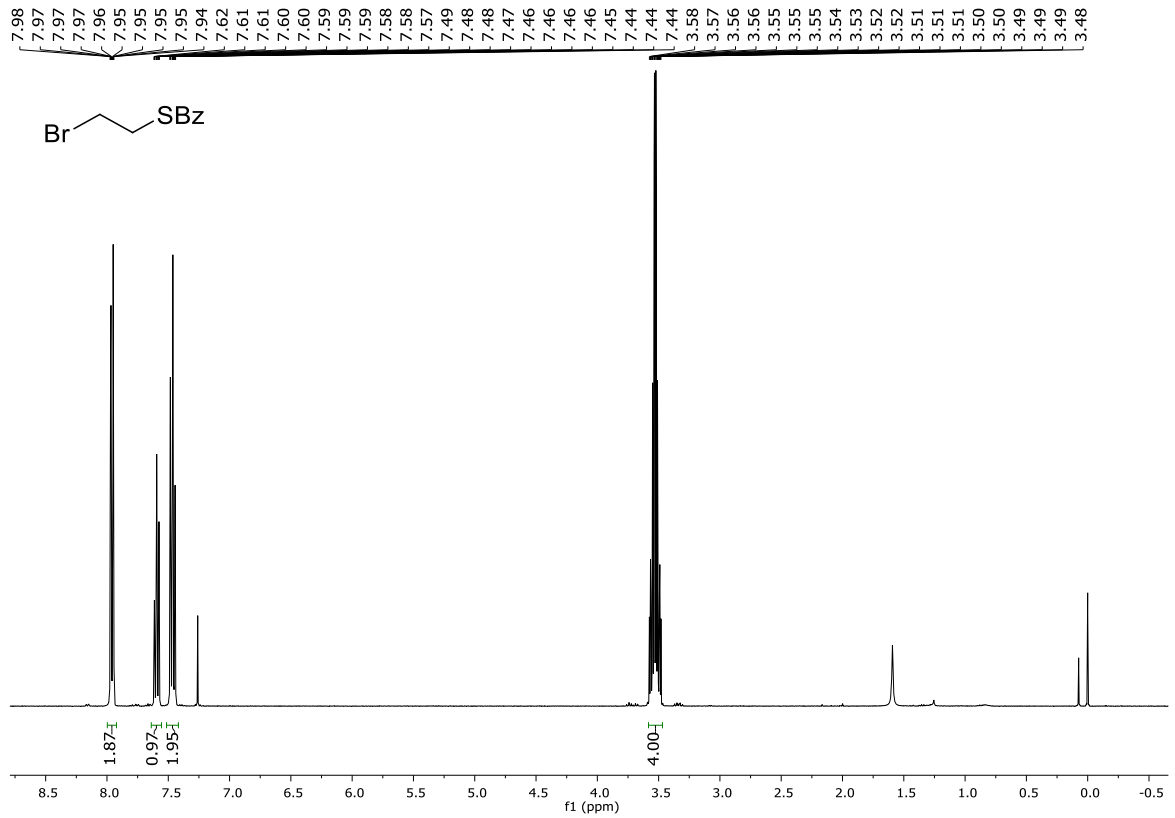


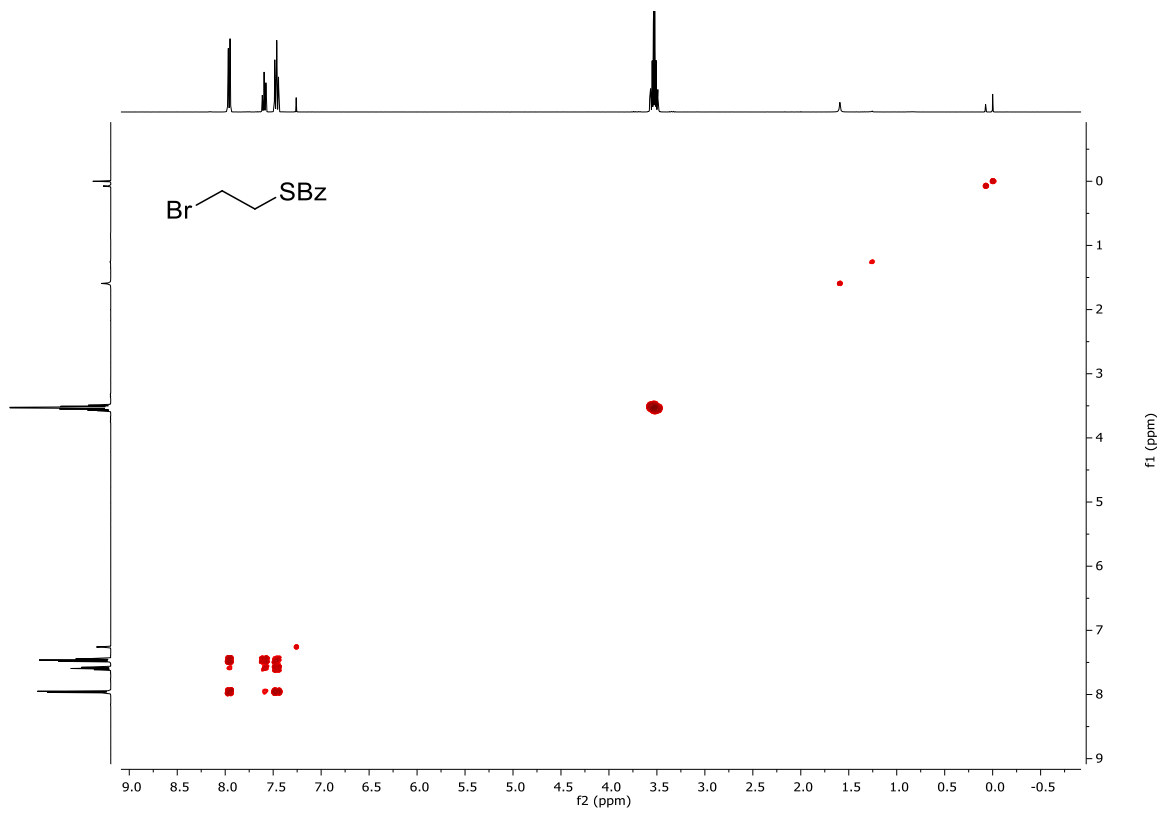
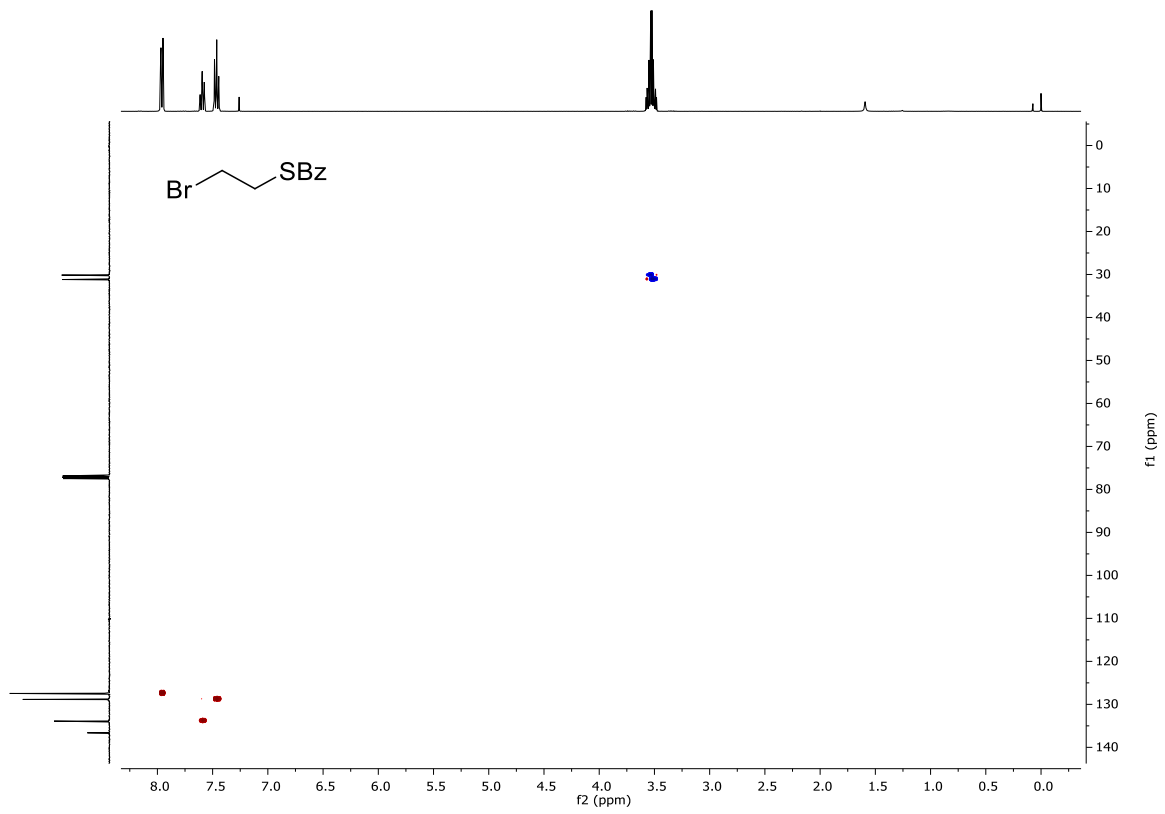
**Methyl 4-[(2-acetylthioethyl)amino]-4-deoxy- $\alpha$ -L-fucopyranoside (23)**



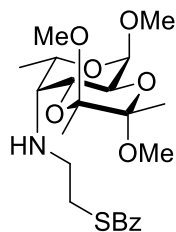
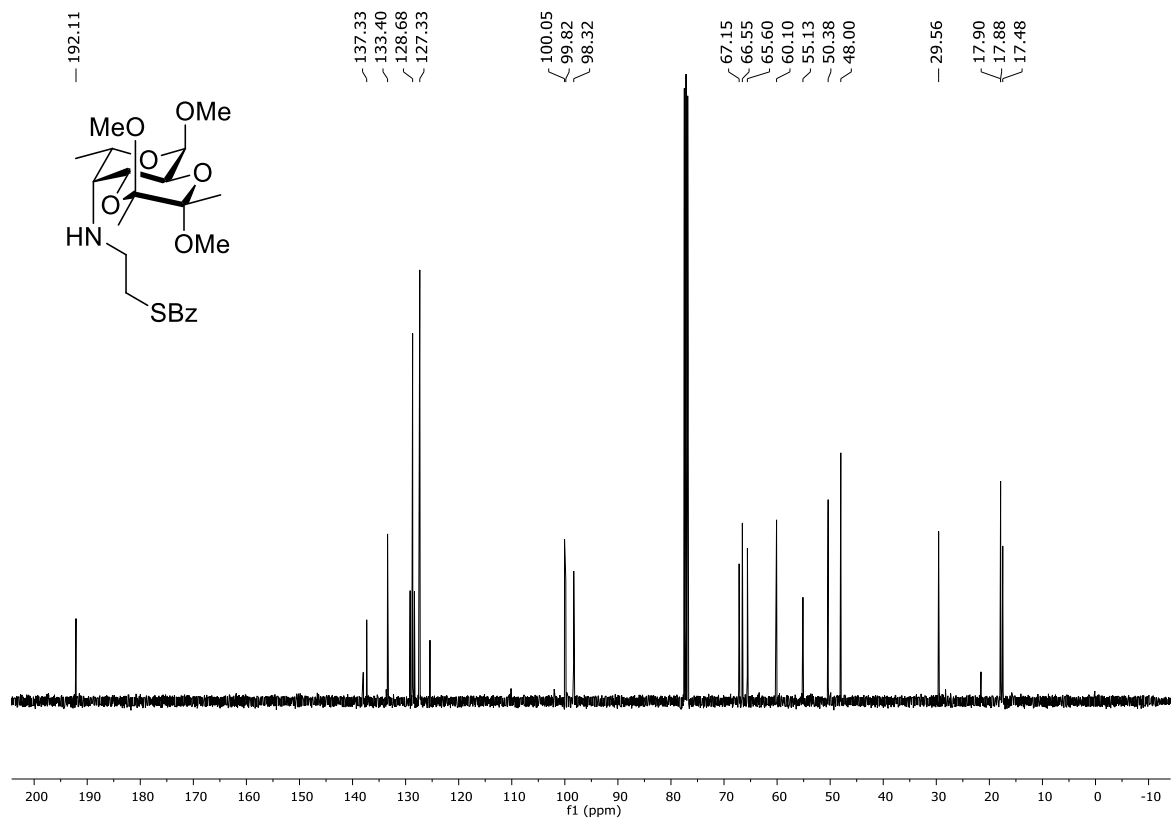
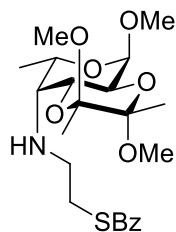
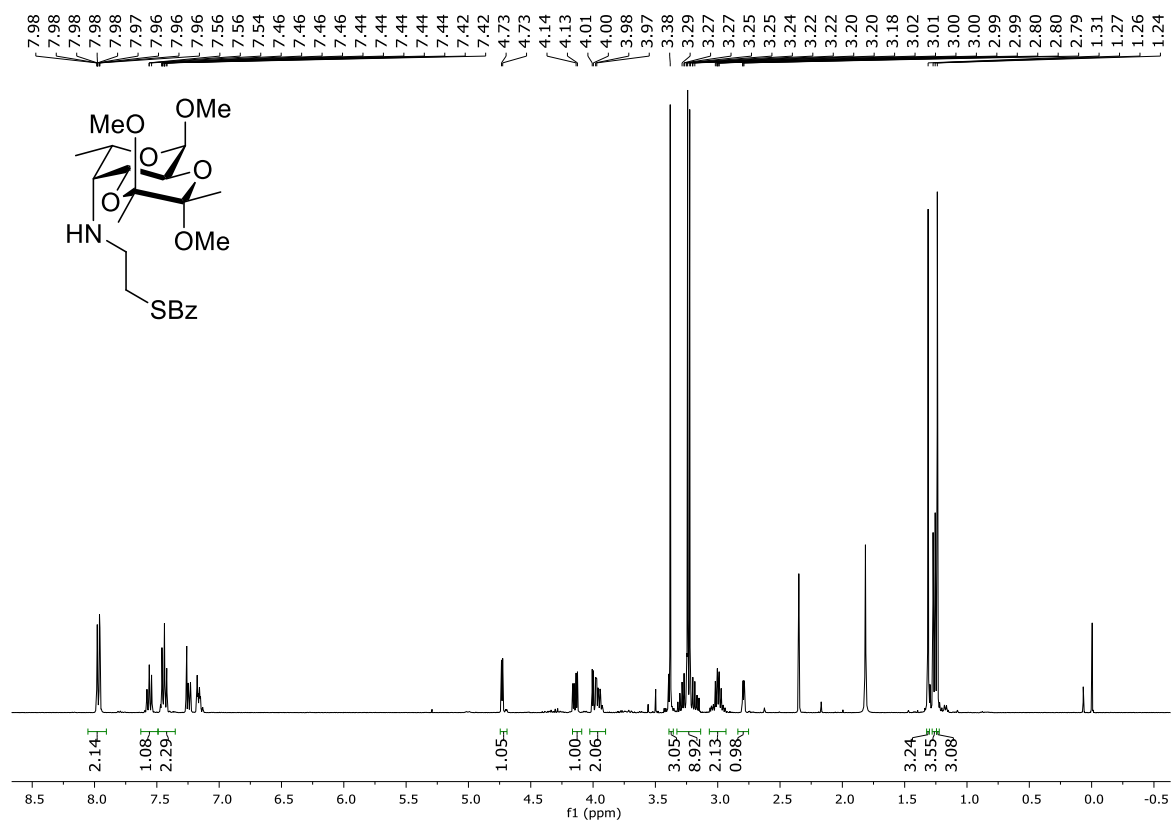


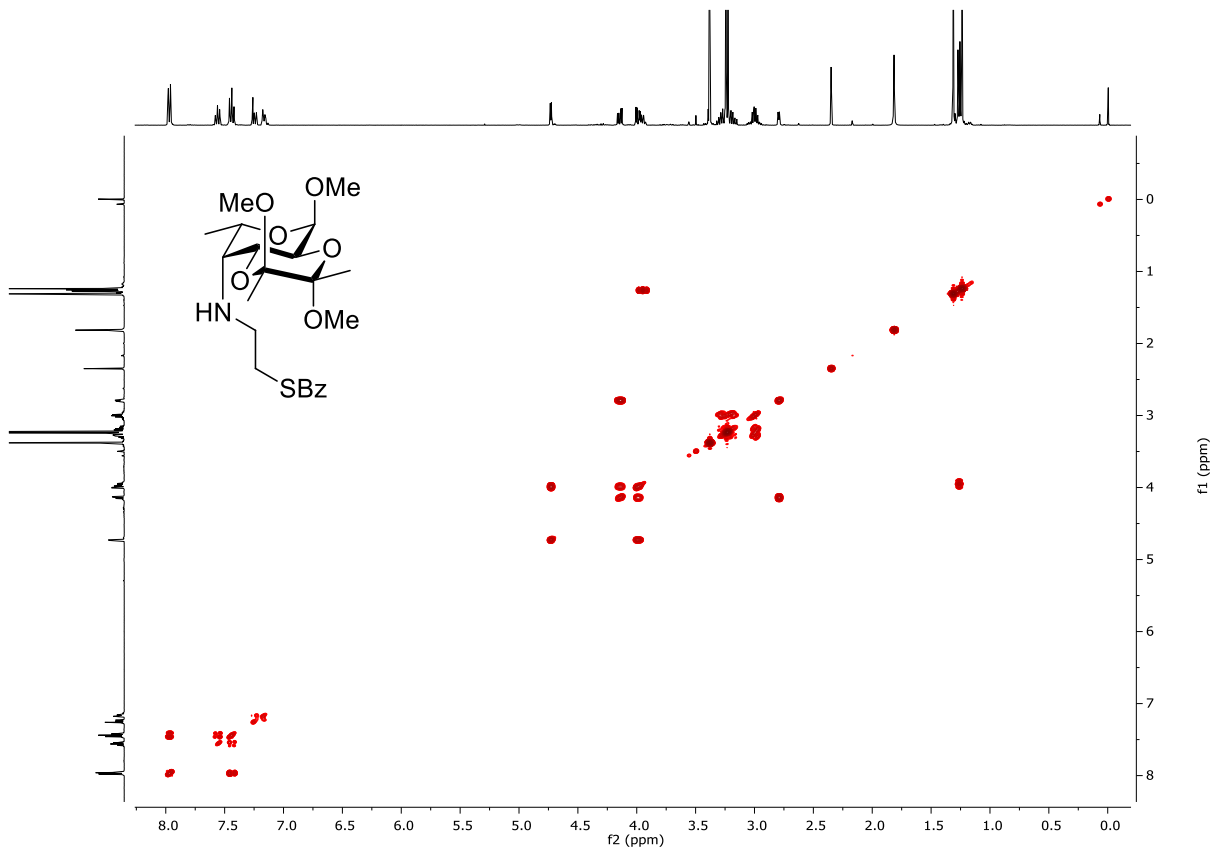
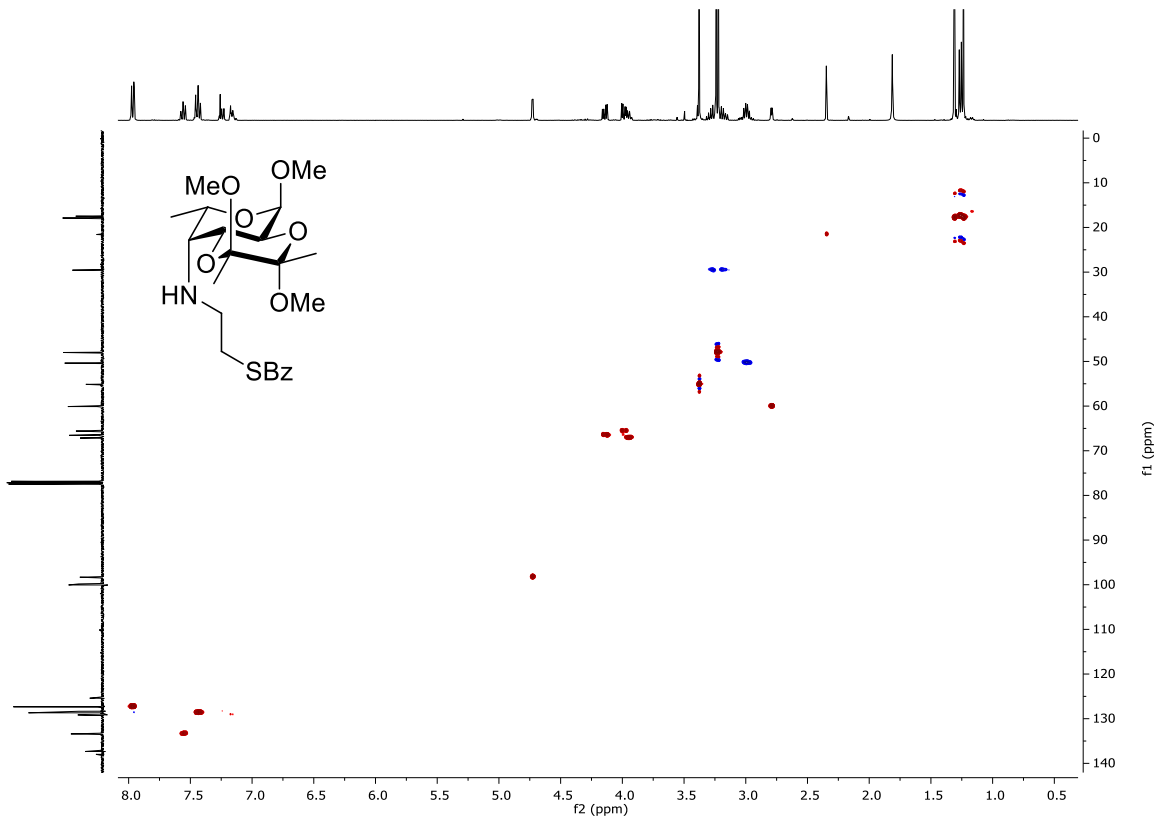
# 2-Bromoethyl thiobenzoate (24) [Ref. 35]



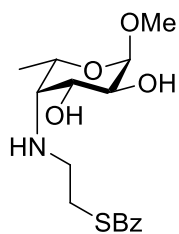
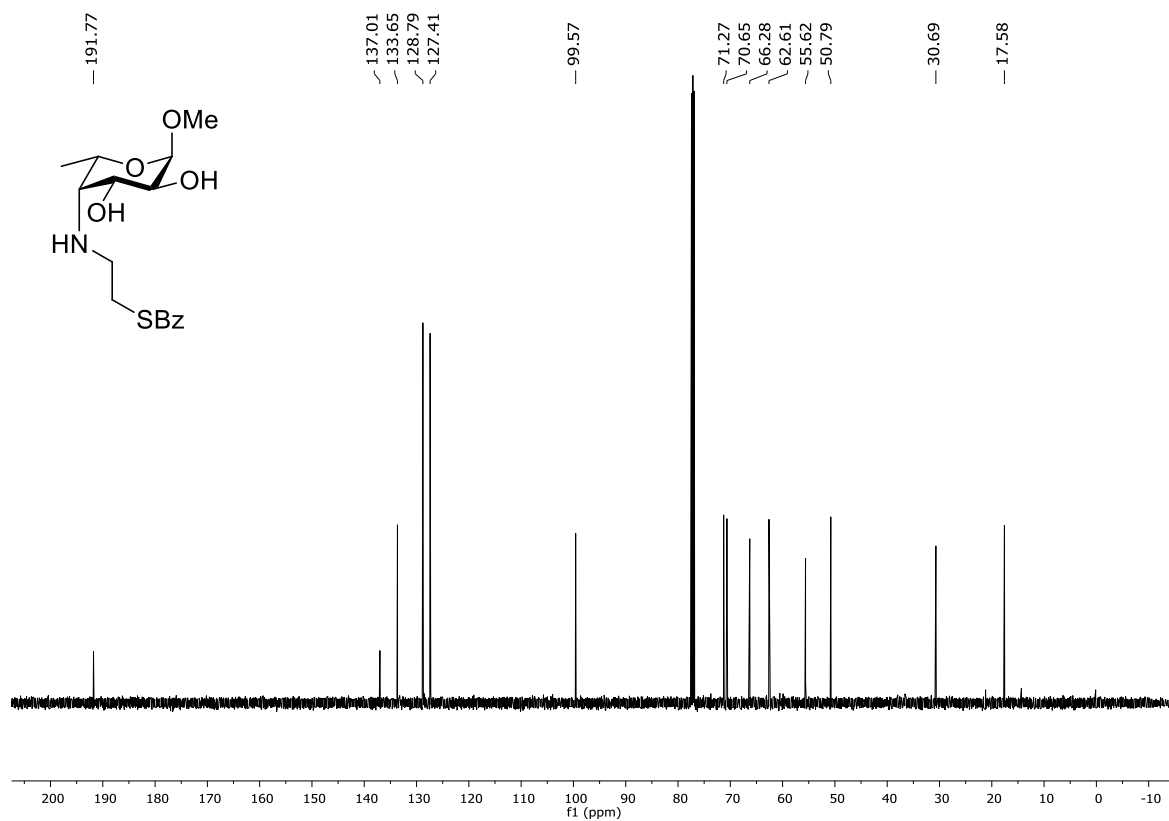
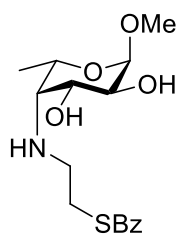
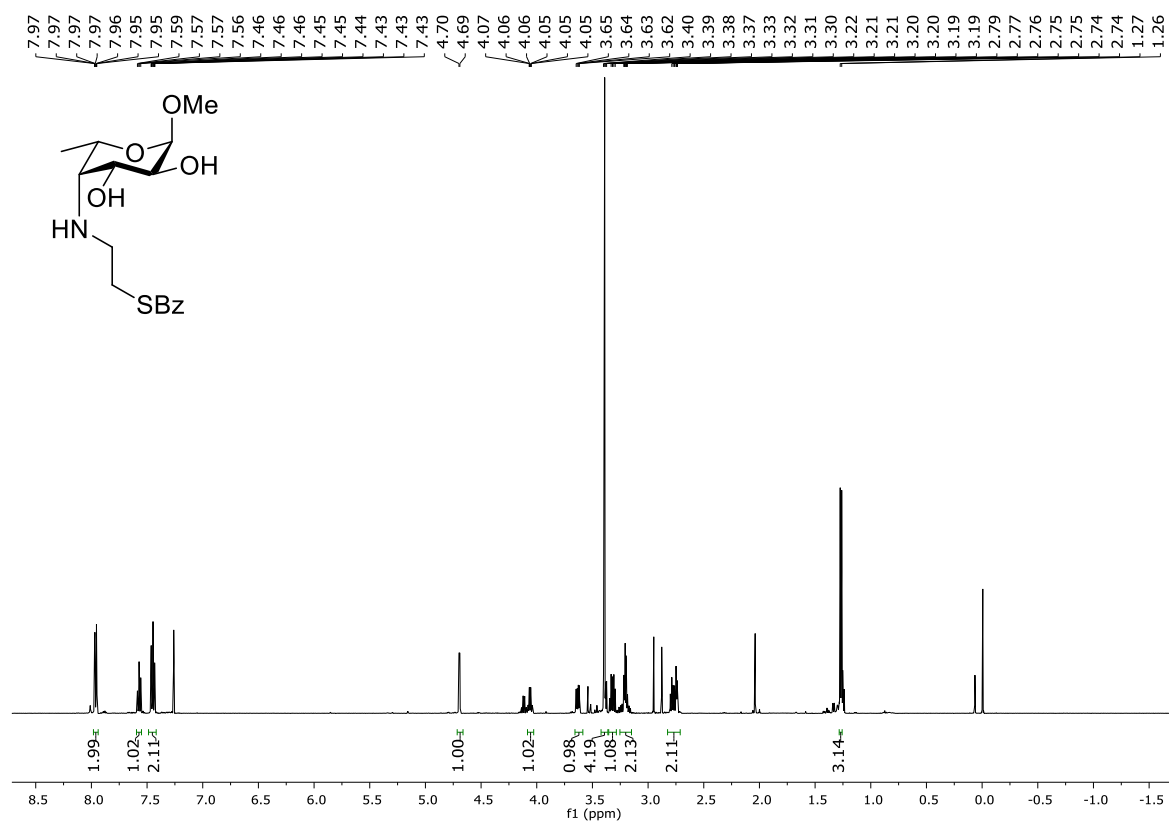


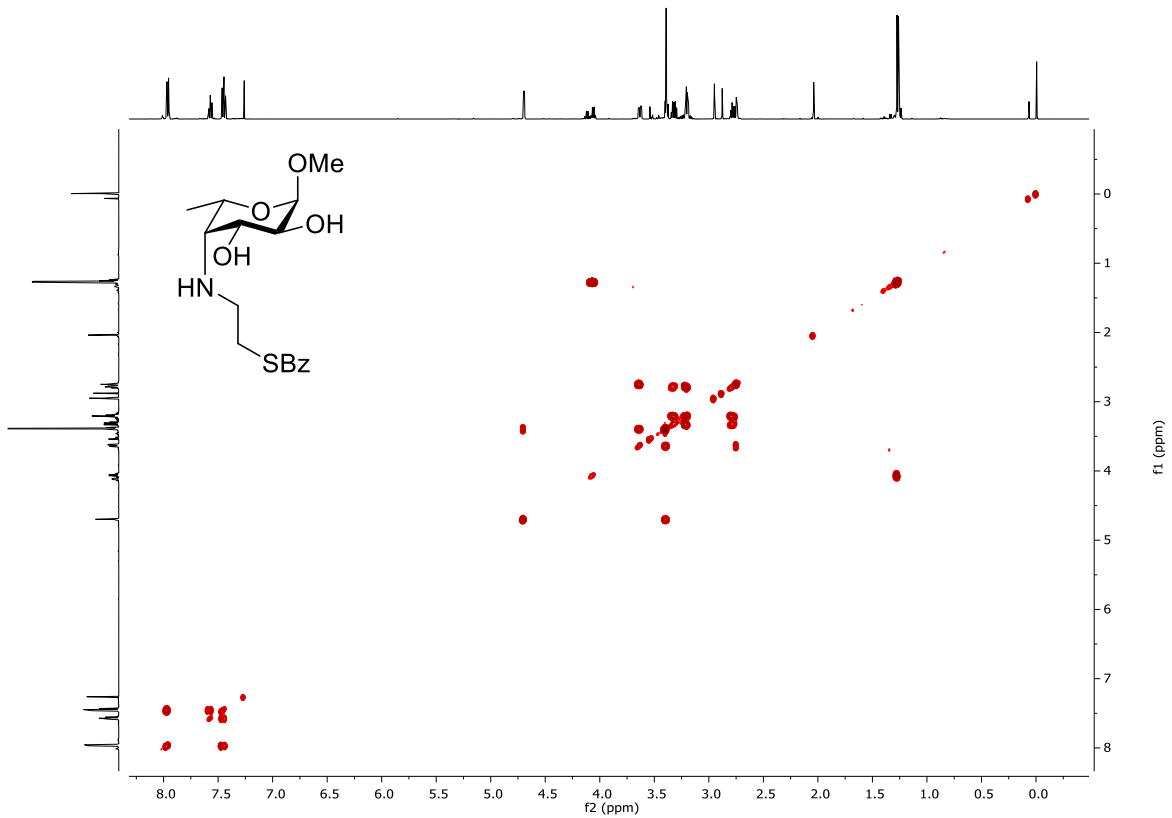
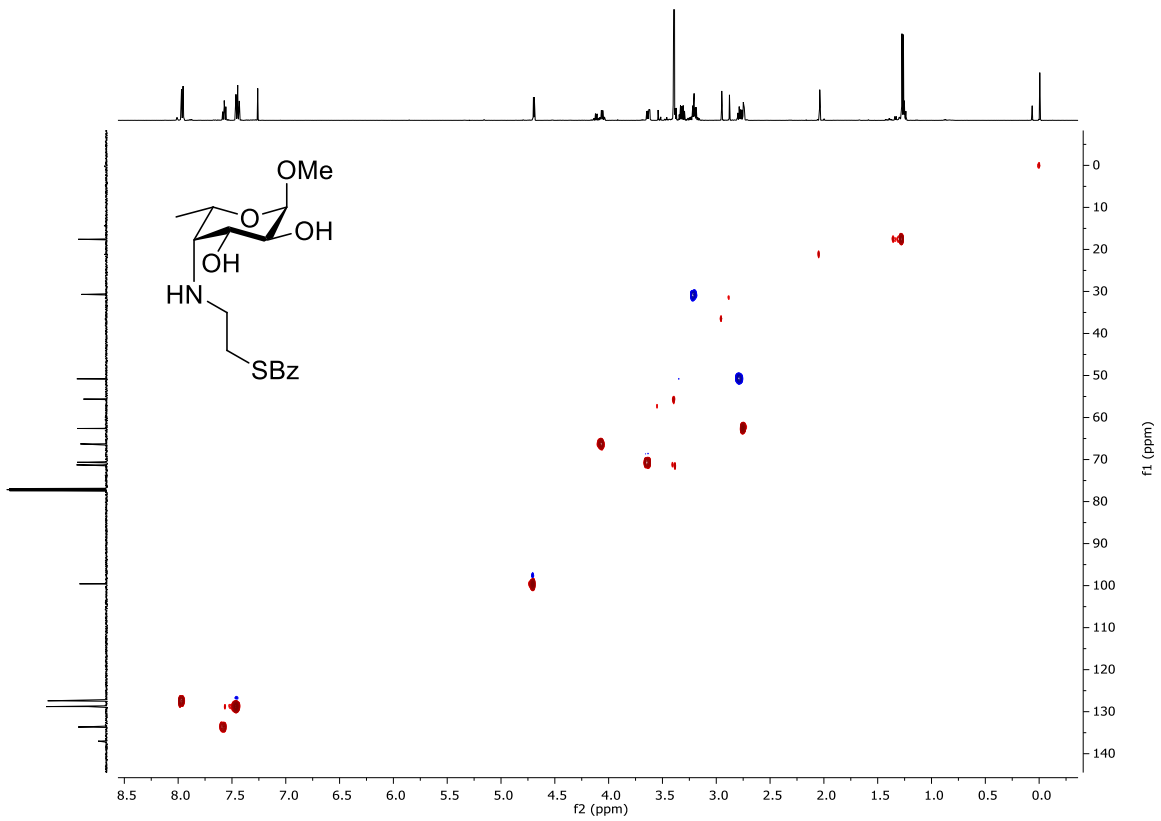
**Methyl 4-[(2-benzoylthioethyl)amino]-4-deoxy-2,3-O-(2',3'-dimethoxybutane-2',3'-diyl)- $\alpha$ -L-fucopyranoside (25)**



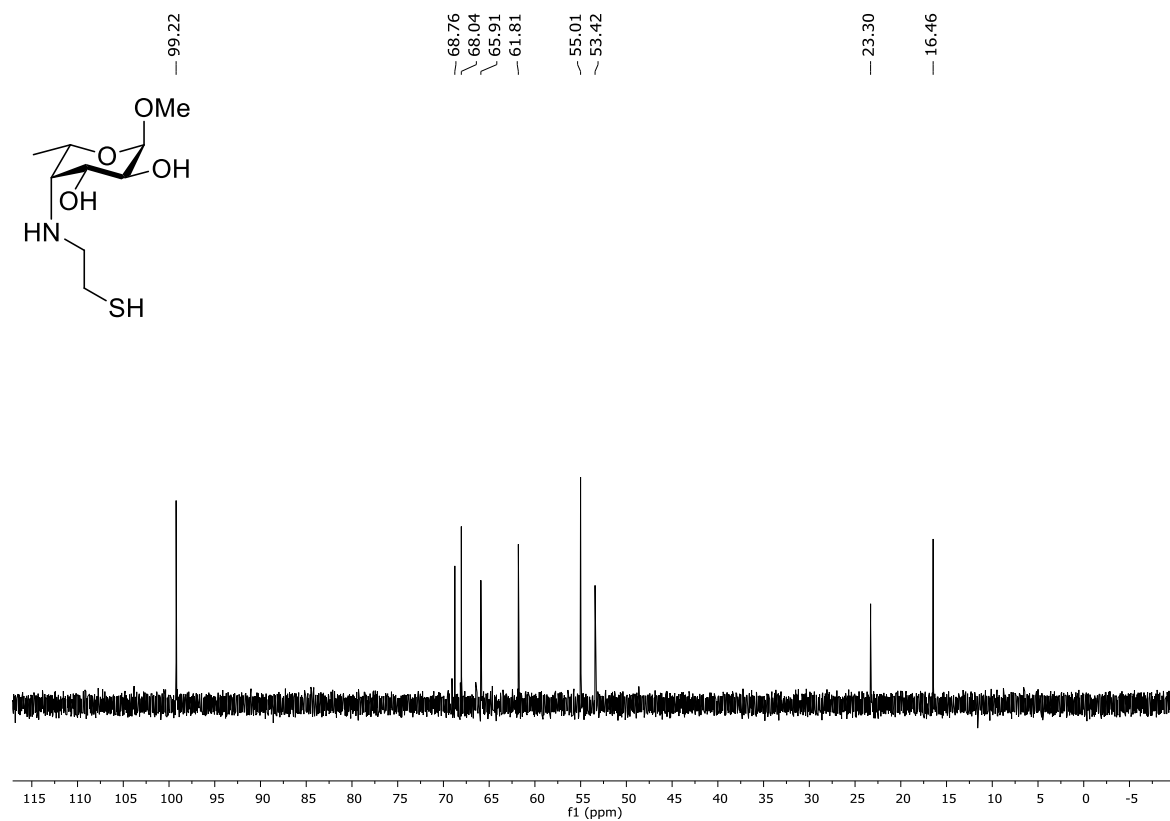
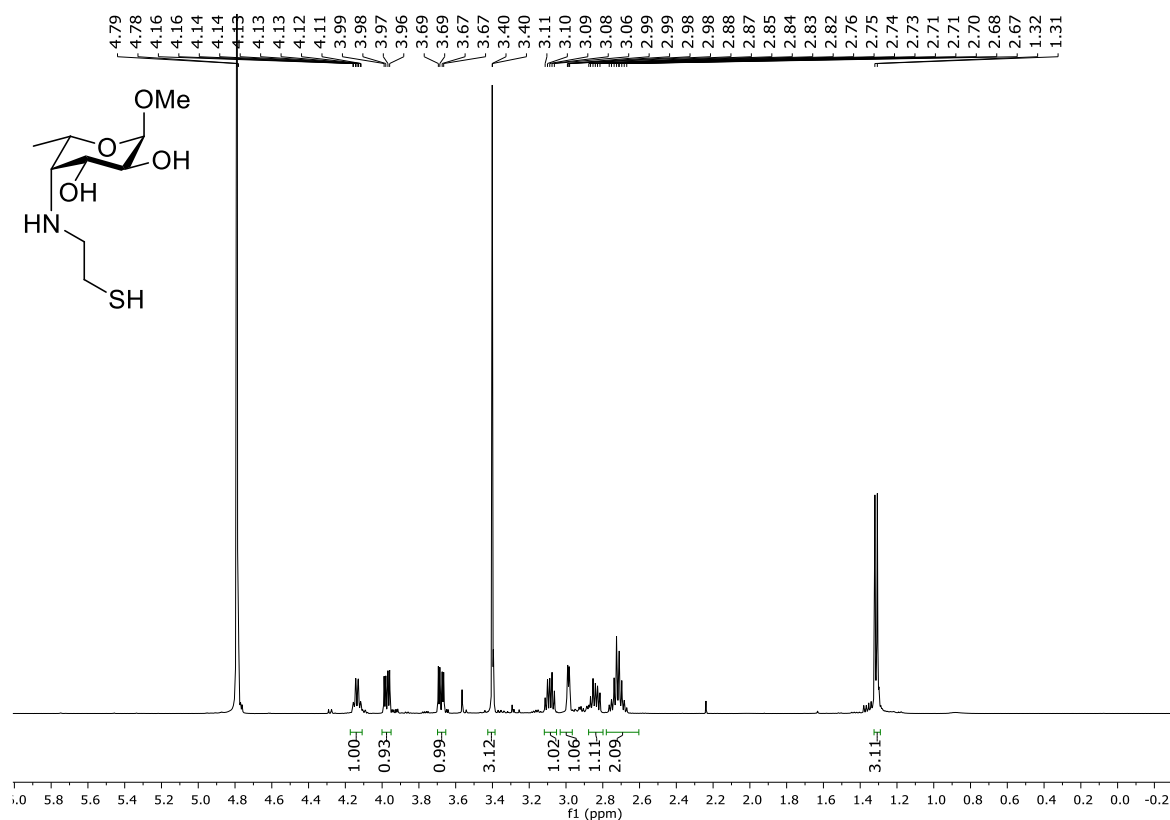


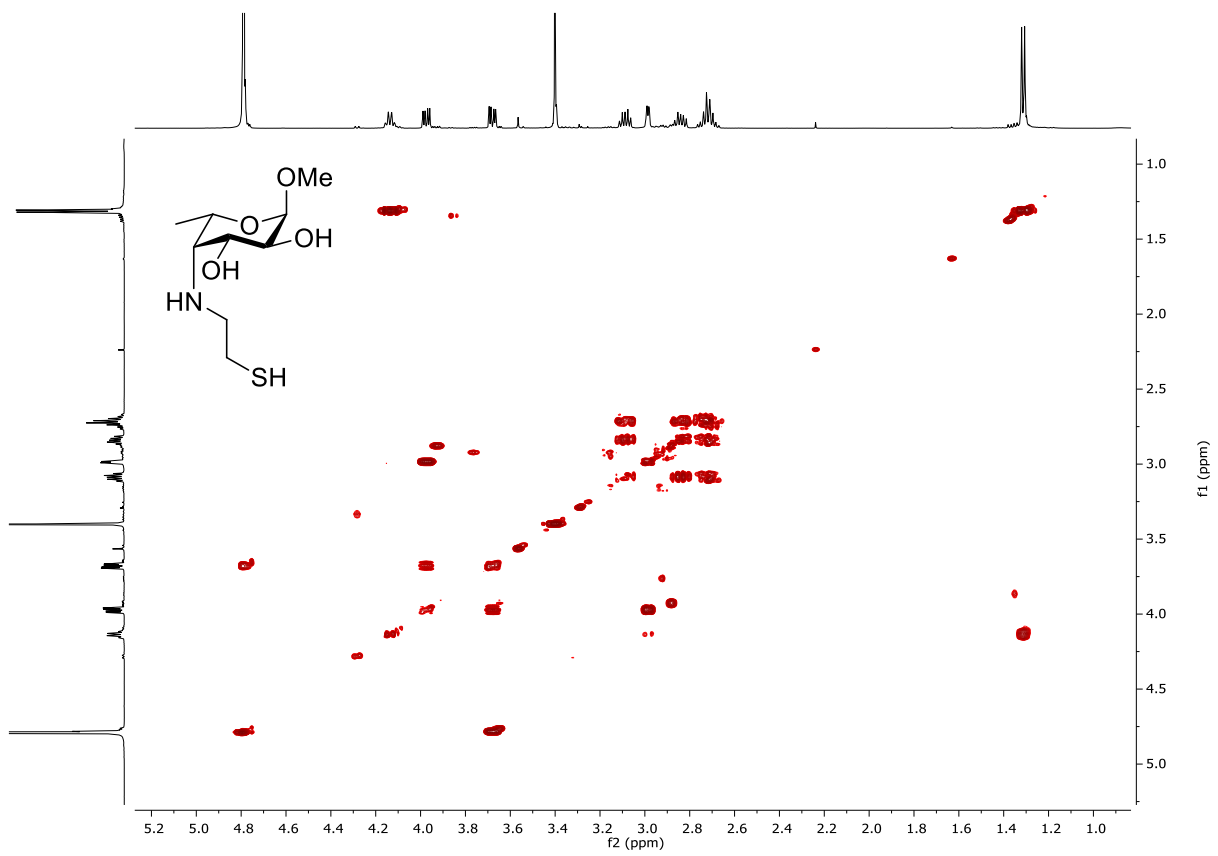
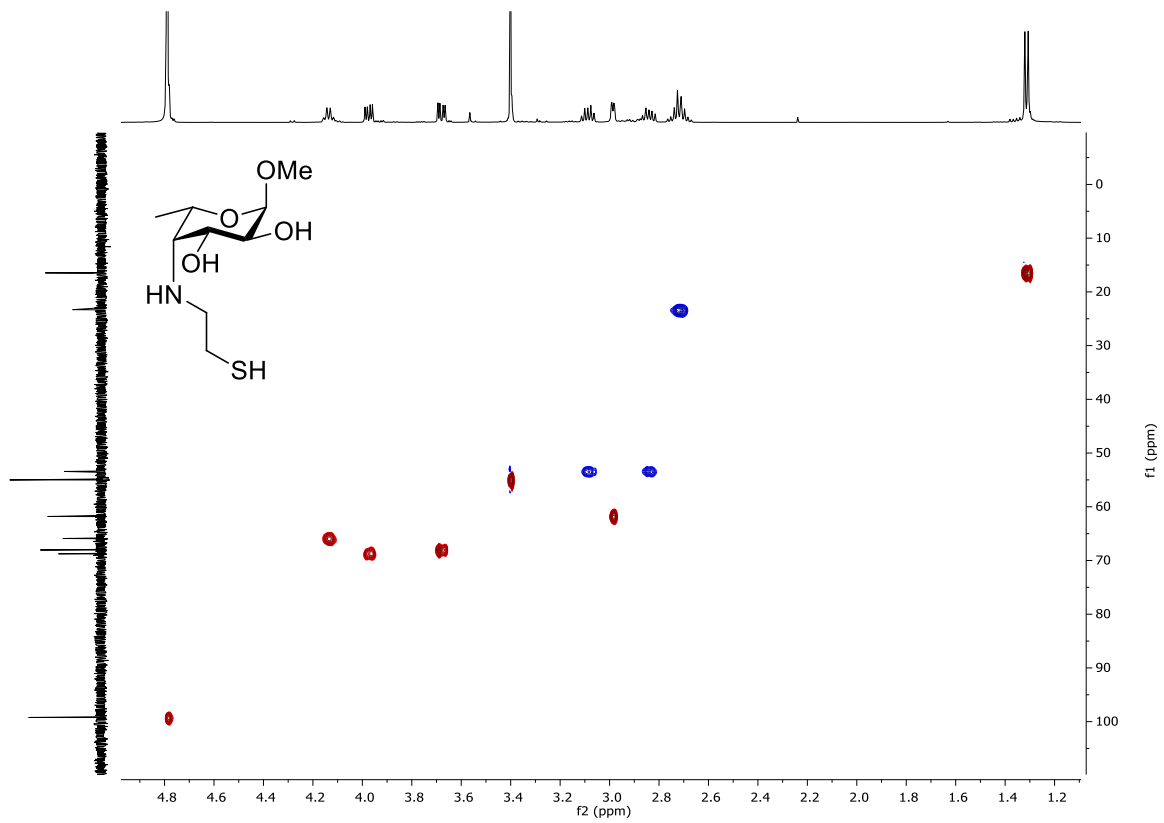
# Methyl 4-[(2-benzylthioethyl)amino]-4-deoxy- $\alpha$ -L-fucopyranoside (26)

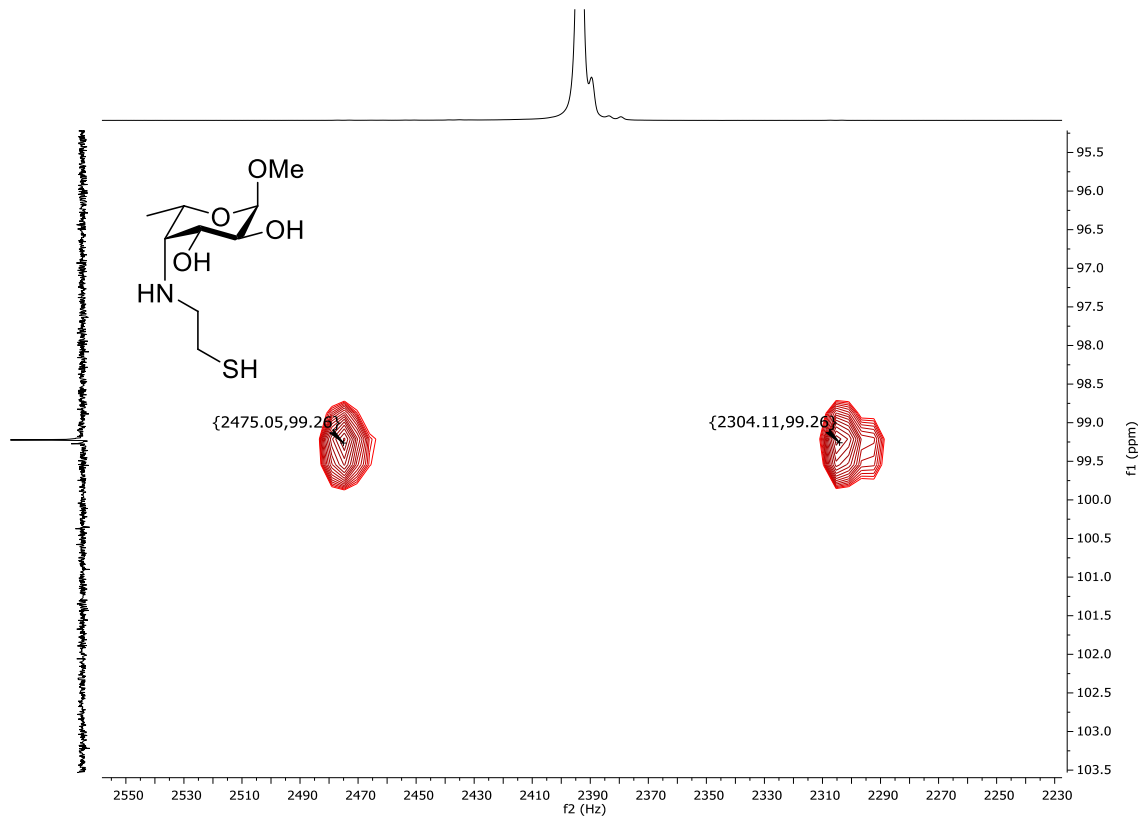




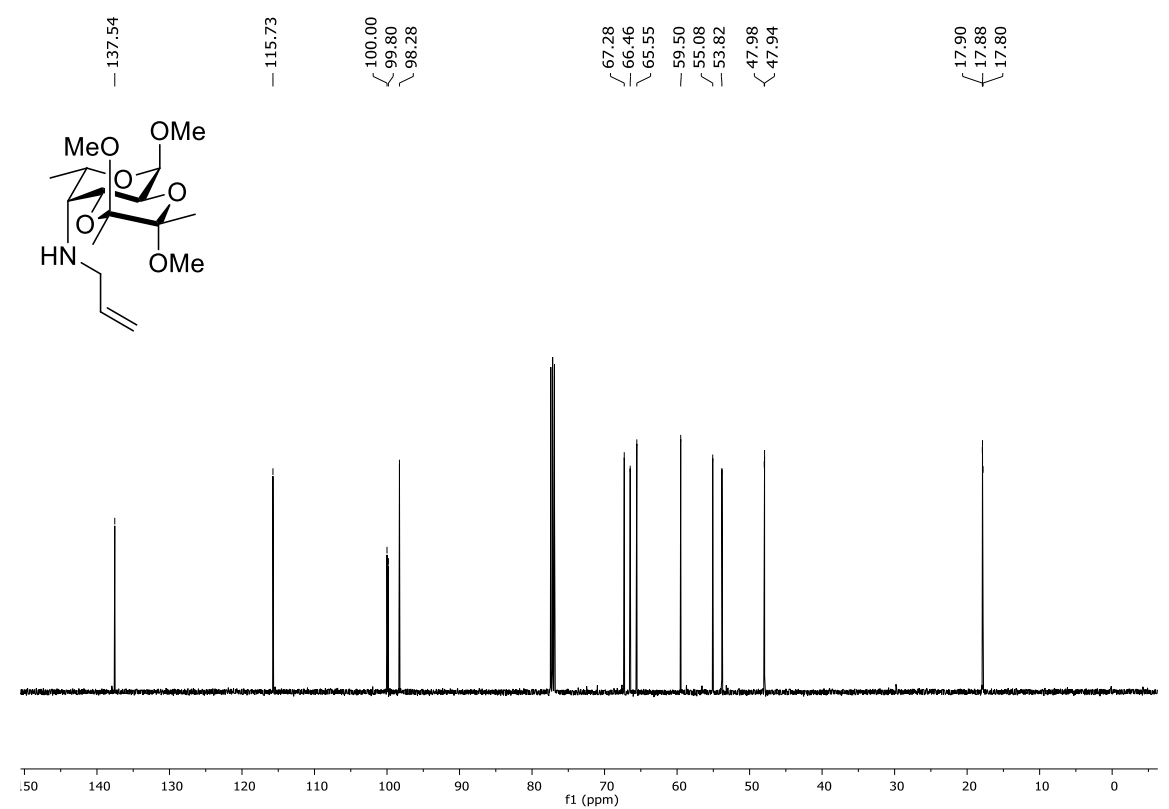
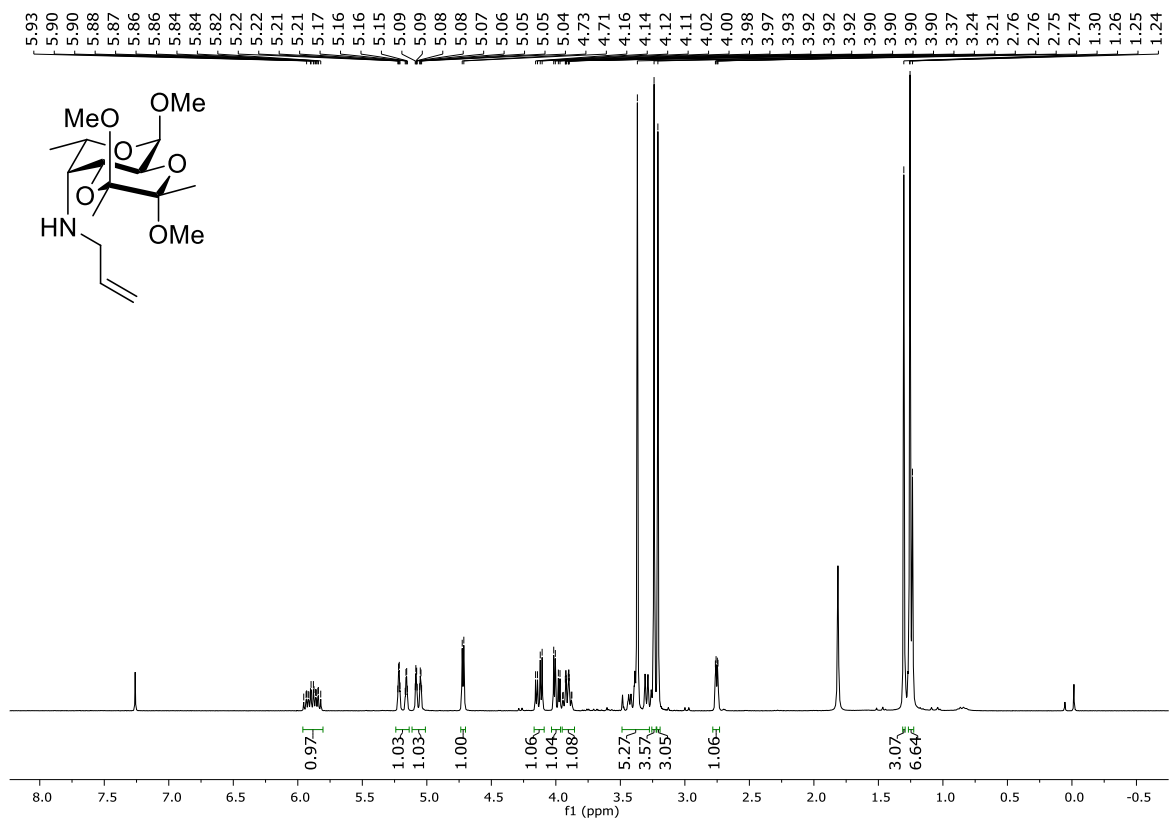
# Methyl 4-deoxy-4-(2-thioethyl)amino- $\alpha$ -L-fucopyranoside (5)

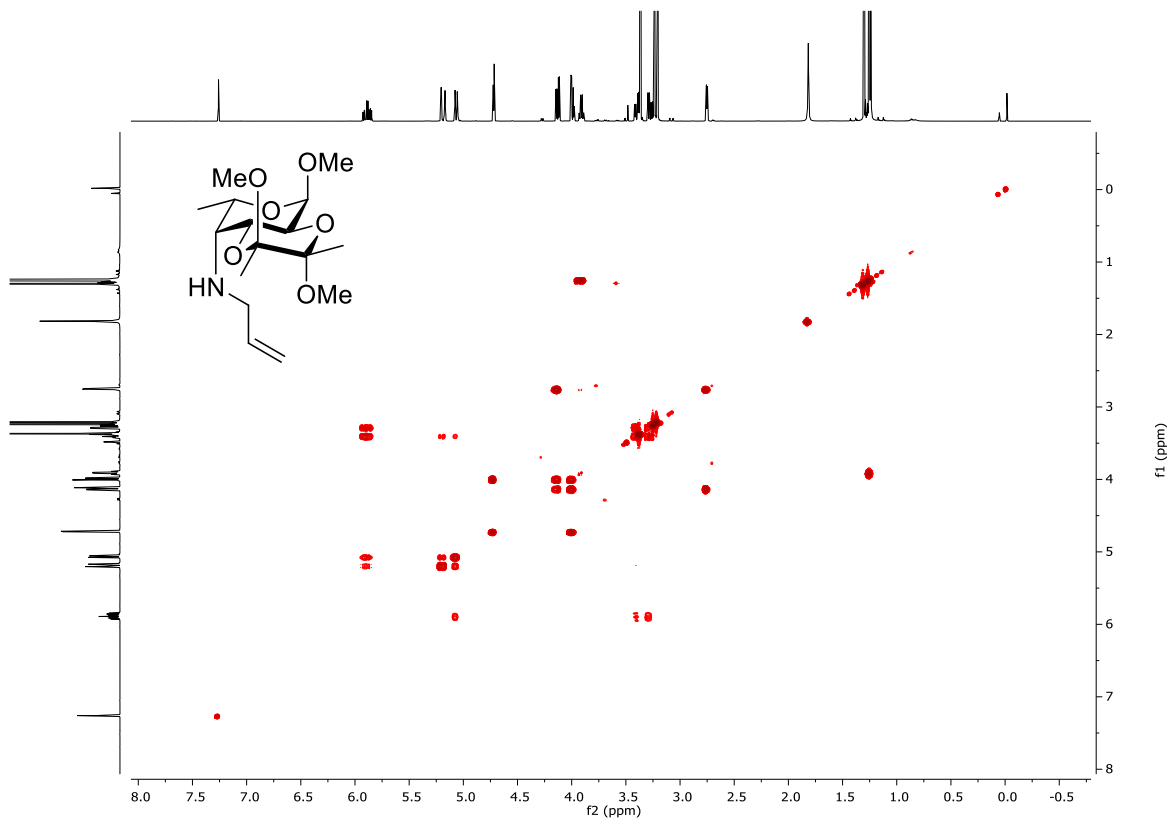
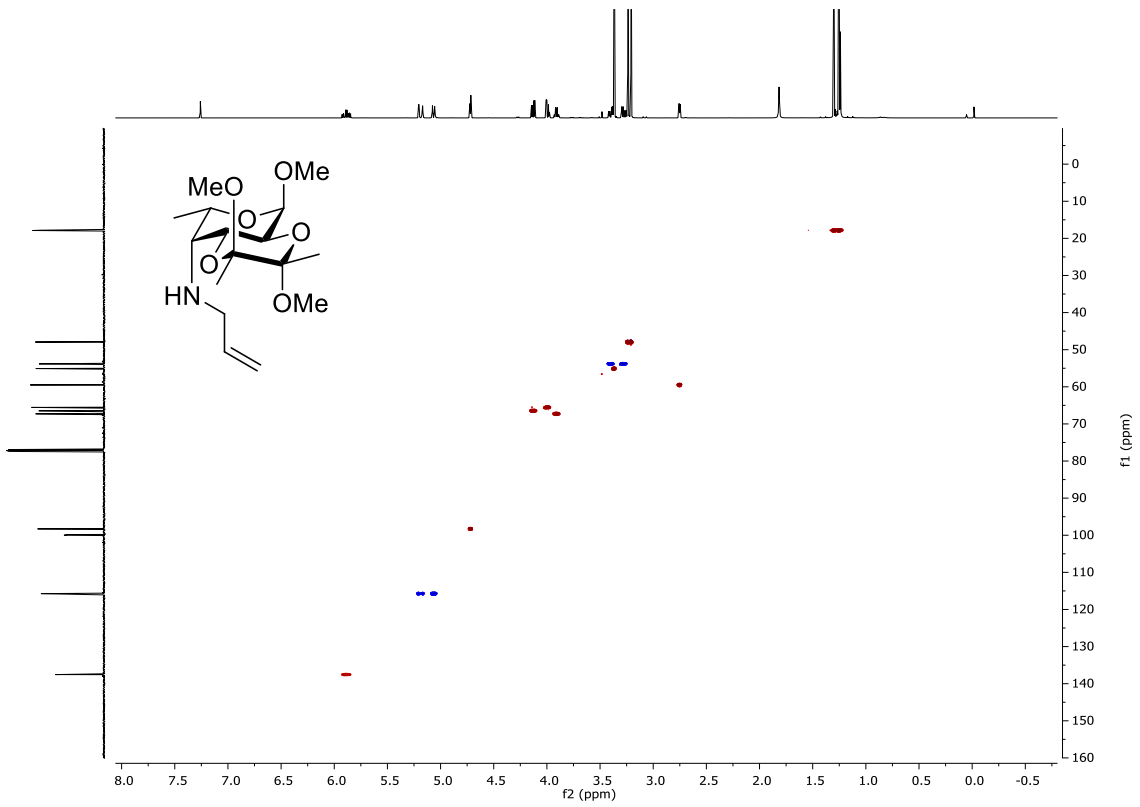




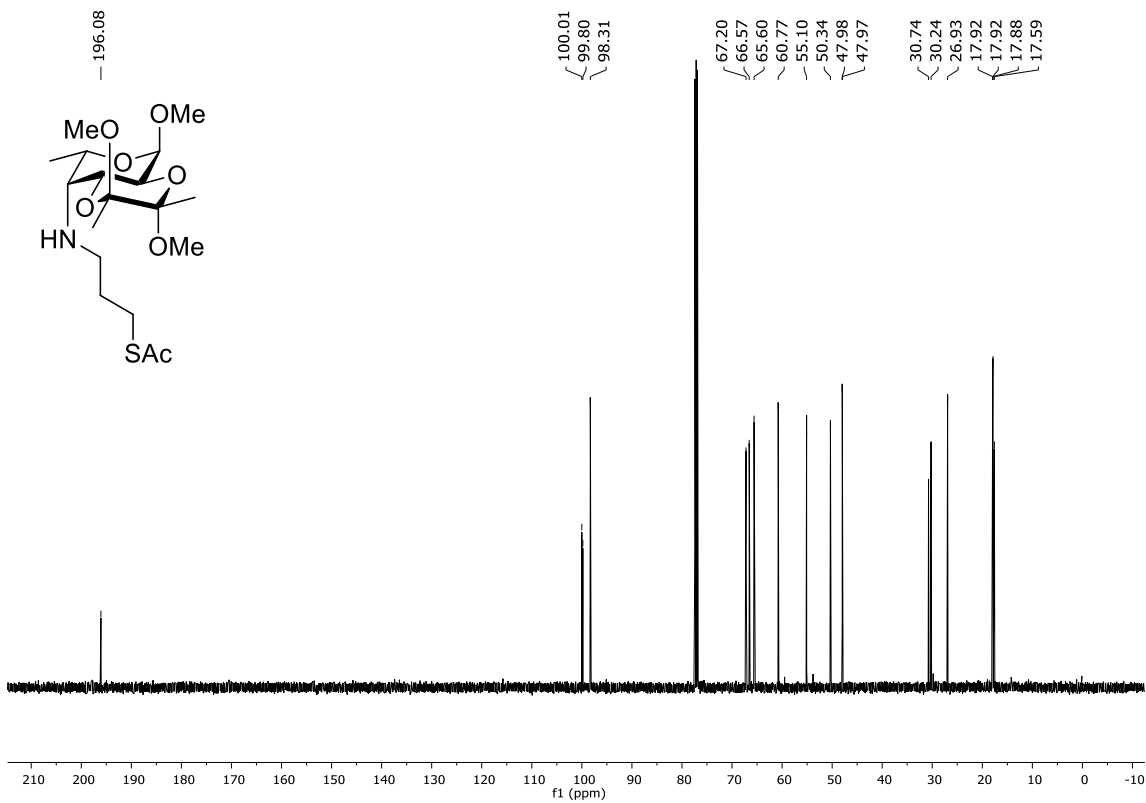
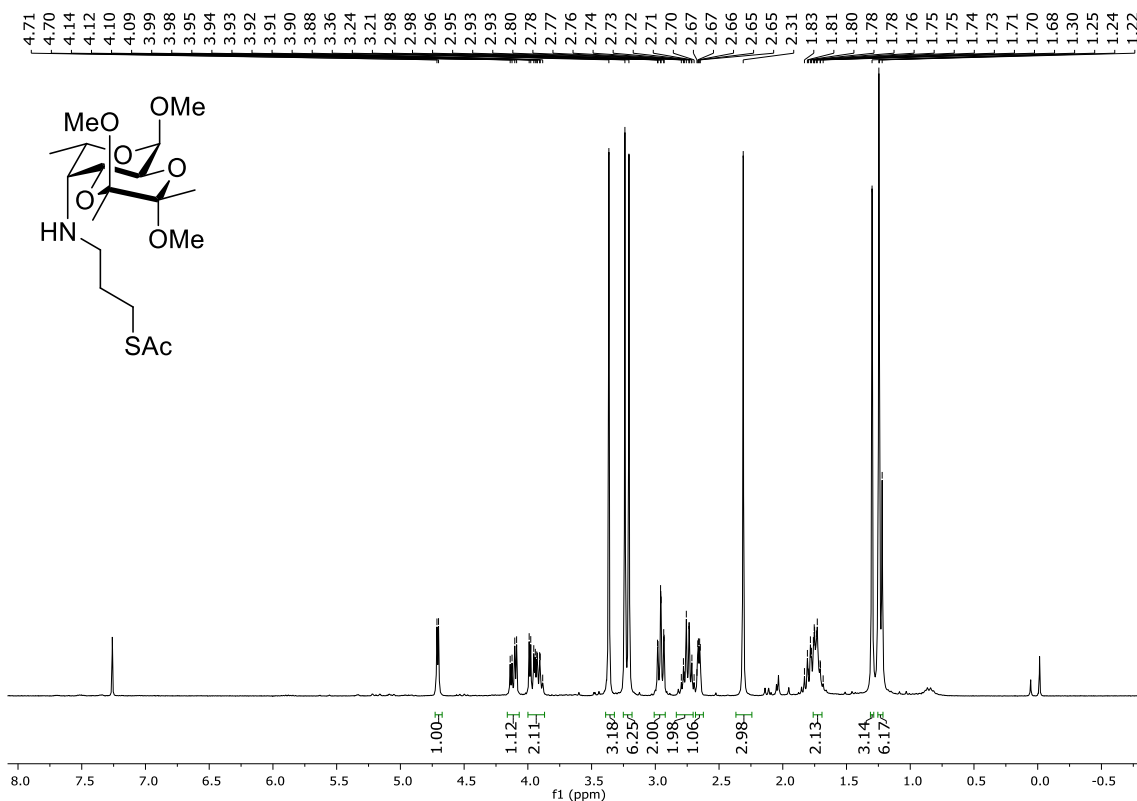


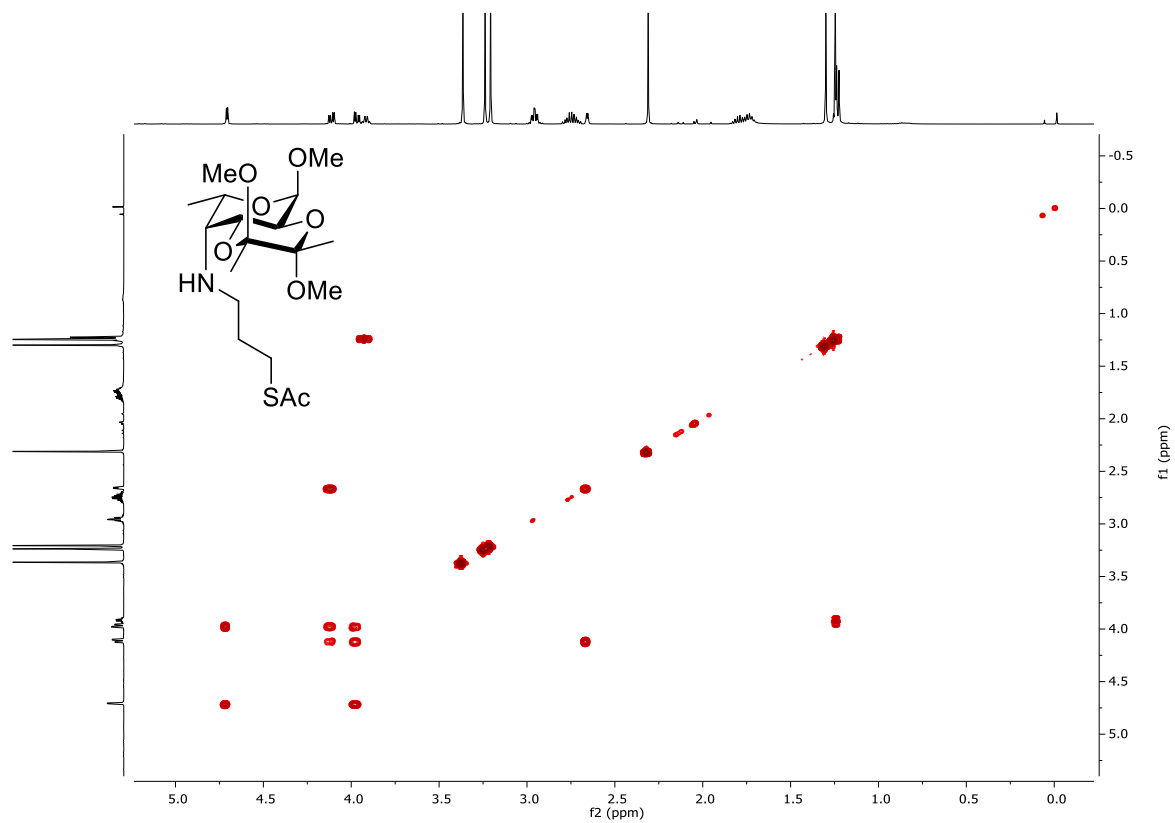
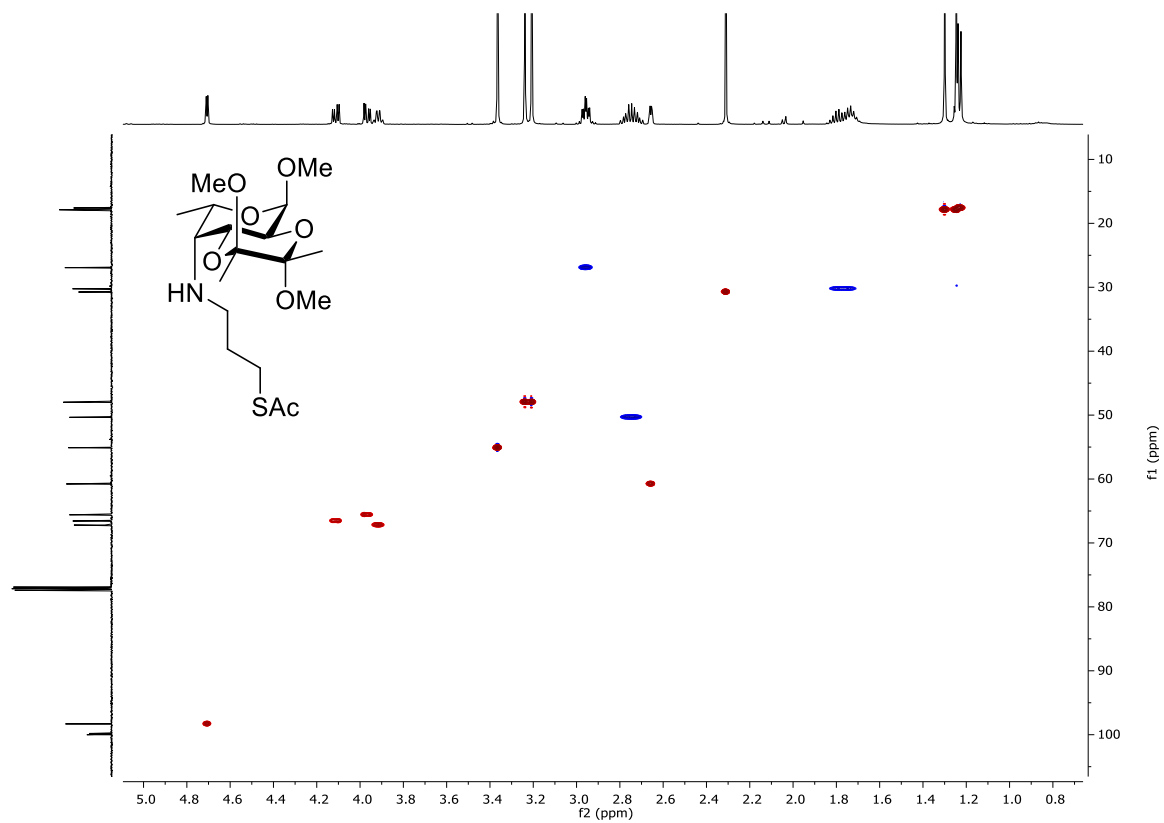
**Methyl 4-allylamino-4-deoxy-2,3-O-(2',3'-dimethoxybutane-2',3'-diyl)- $\alpha$ -L-fucopyranoside (27)**



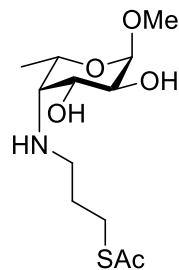
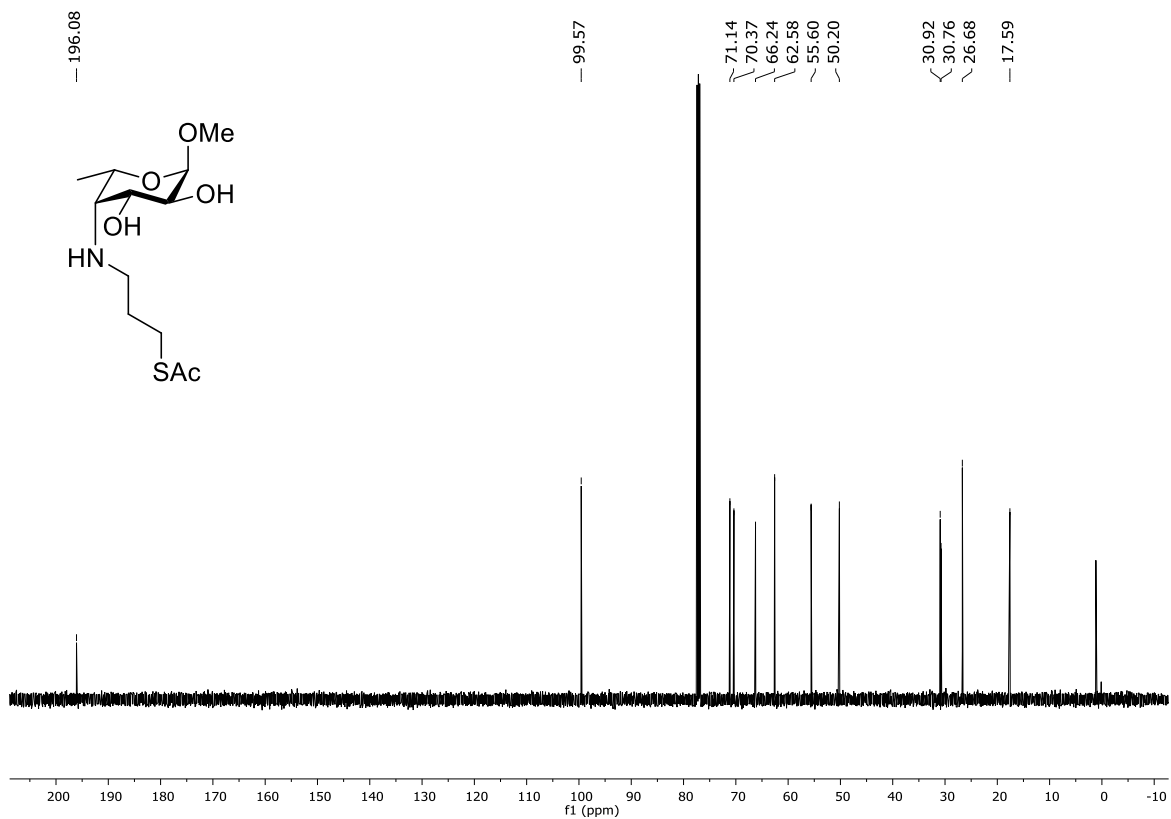
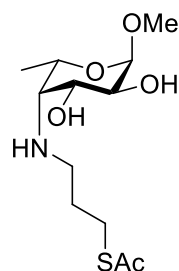
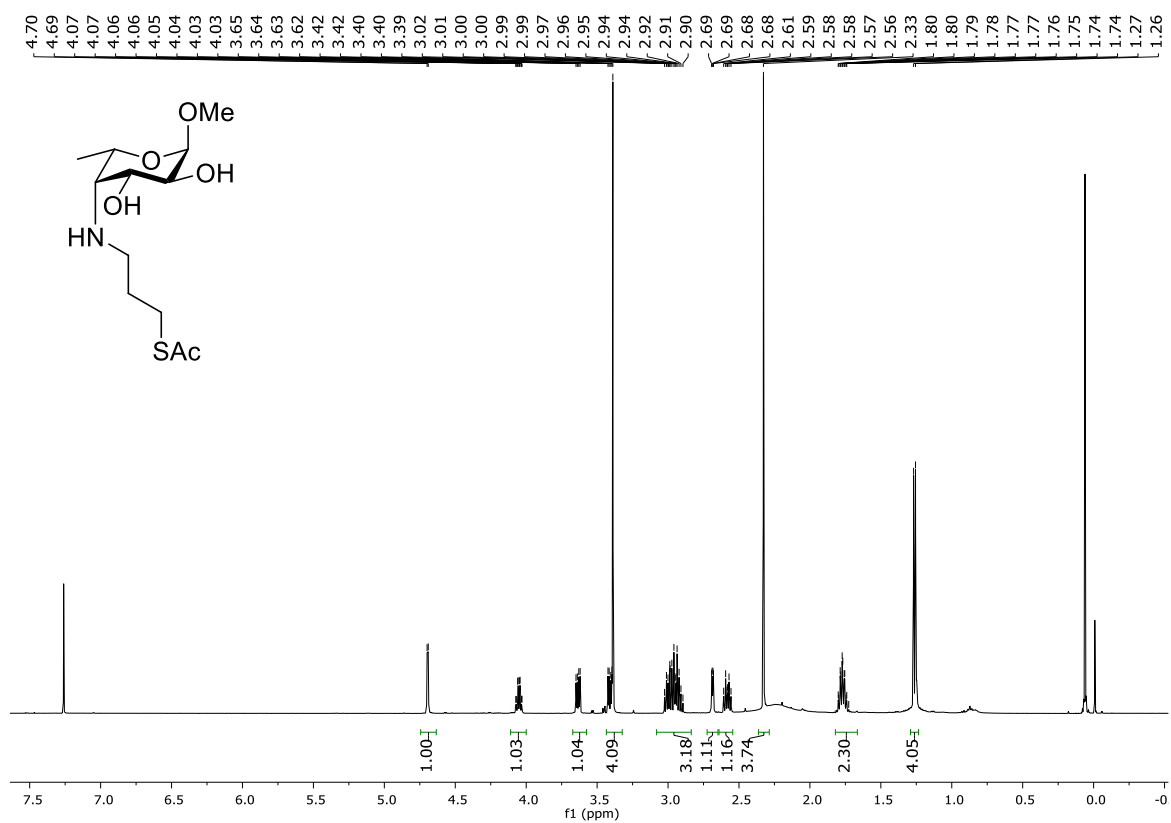


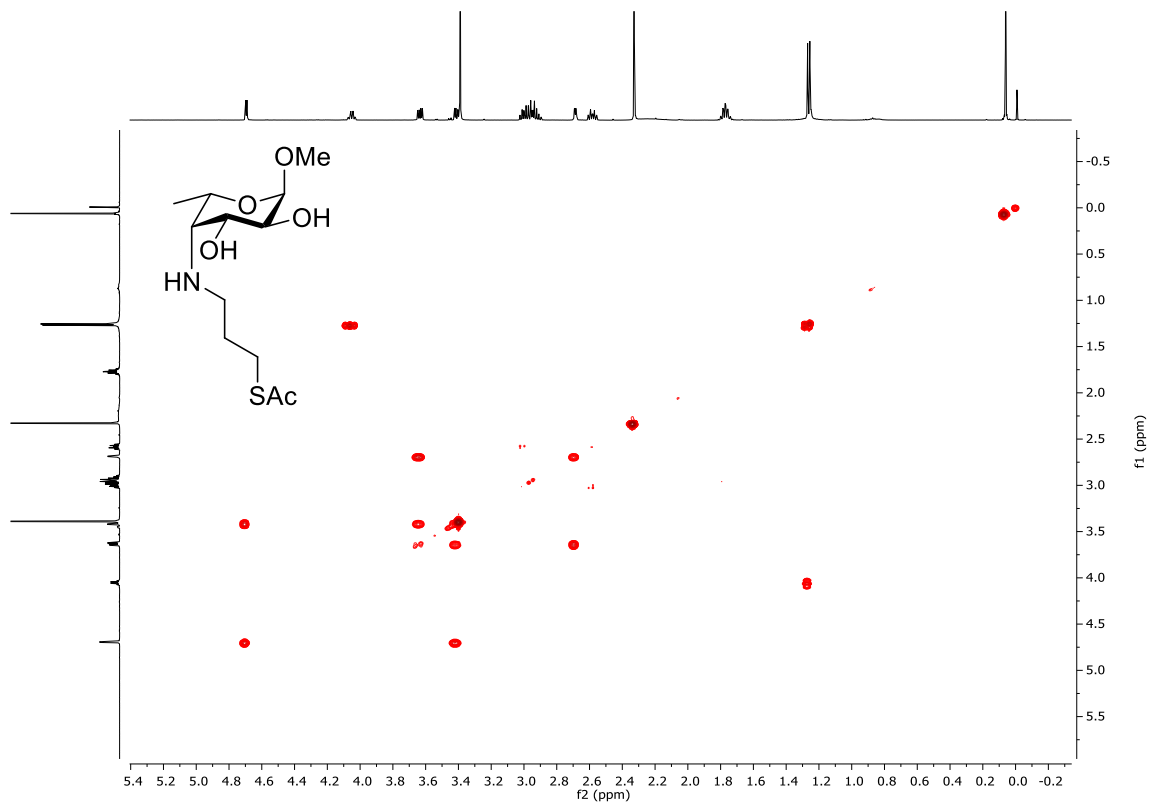
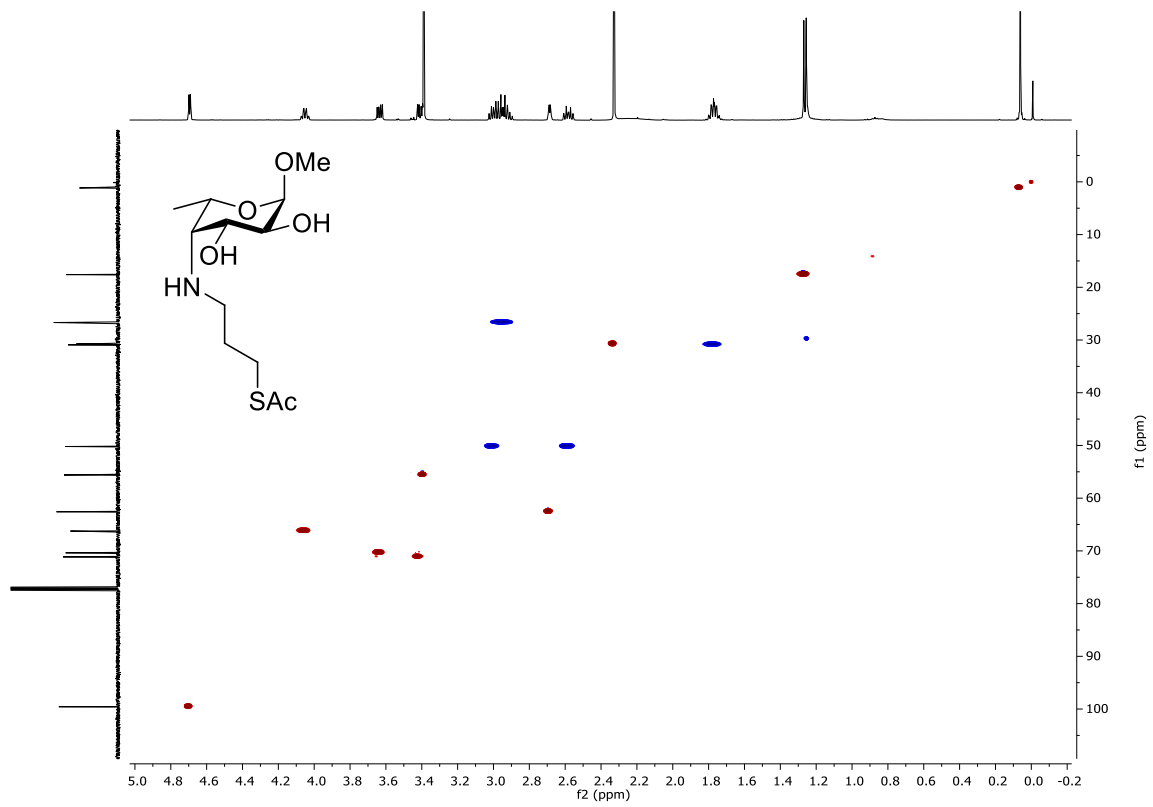
**Methyl 4-[(3-acetylthiopropyl)amino]-4-deoxy-2,3-O-(2',3'-dimethoxybutane-2',3'-diyl)- $\alpha$ -L-fucopyranoside (28)**





# Methyl 4-[(3-acetylthiopropyl)amino]-4-deoxy- $\alpha$ -L-fucopyranoside (29)





# Methyl 4-deoxy-4-[(3-thiopropyl)amino]- $\alpha$ -L-fucopyranoside (6)

