

Electronic Supplementary Information

A Concise/Catalytic Approach for the Construction of the C14–C28 Fragment of Eribulin

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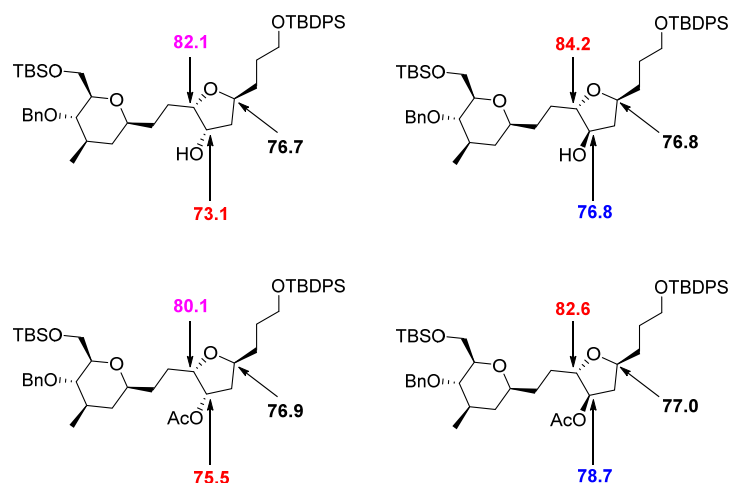
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- General Information and Comparison Table S02
- NMR Spectra S03 – S97

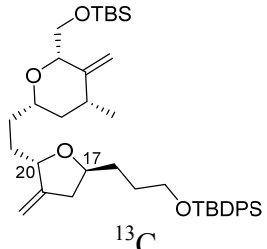
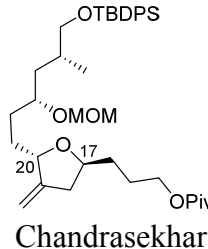
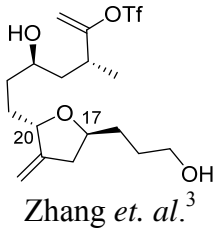
Figure S1. Comparison of the ^{13}C NMR Chemical Shift THF units¹



Characteristics ^{13}C NMR Chemical Shift values for the 2-hydroxy-tetrahydrofuran rings.¹

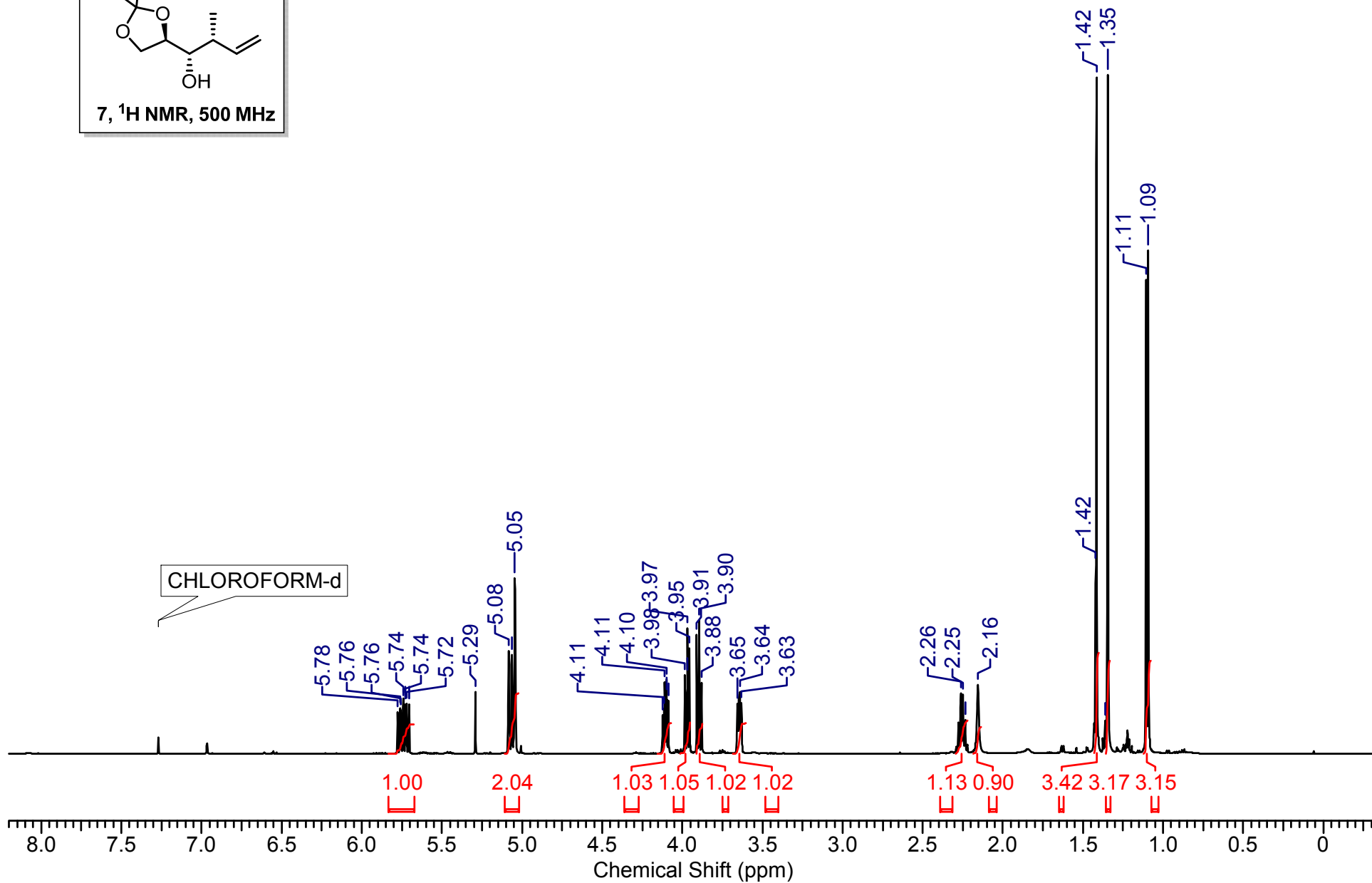
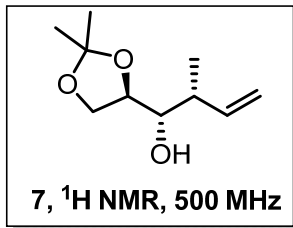
- 1,2-*cis*-hydroxy (trans fused) = 83 ppm (C1) and 73 ppm (C2-OH)
- 1,2-*trans*-hydroxy (trans fused) = 86 ppm (C1) and 74 ppm (C2-OH)

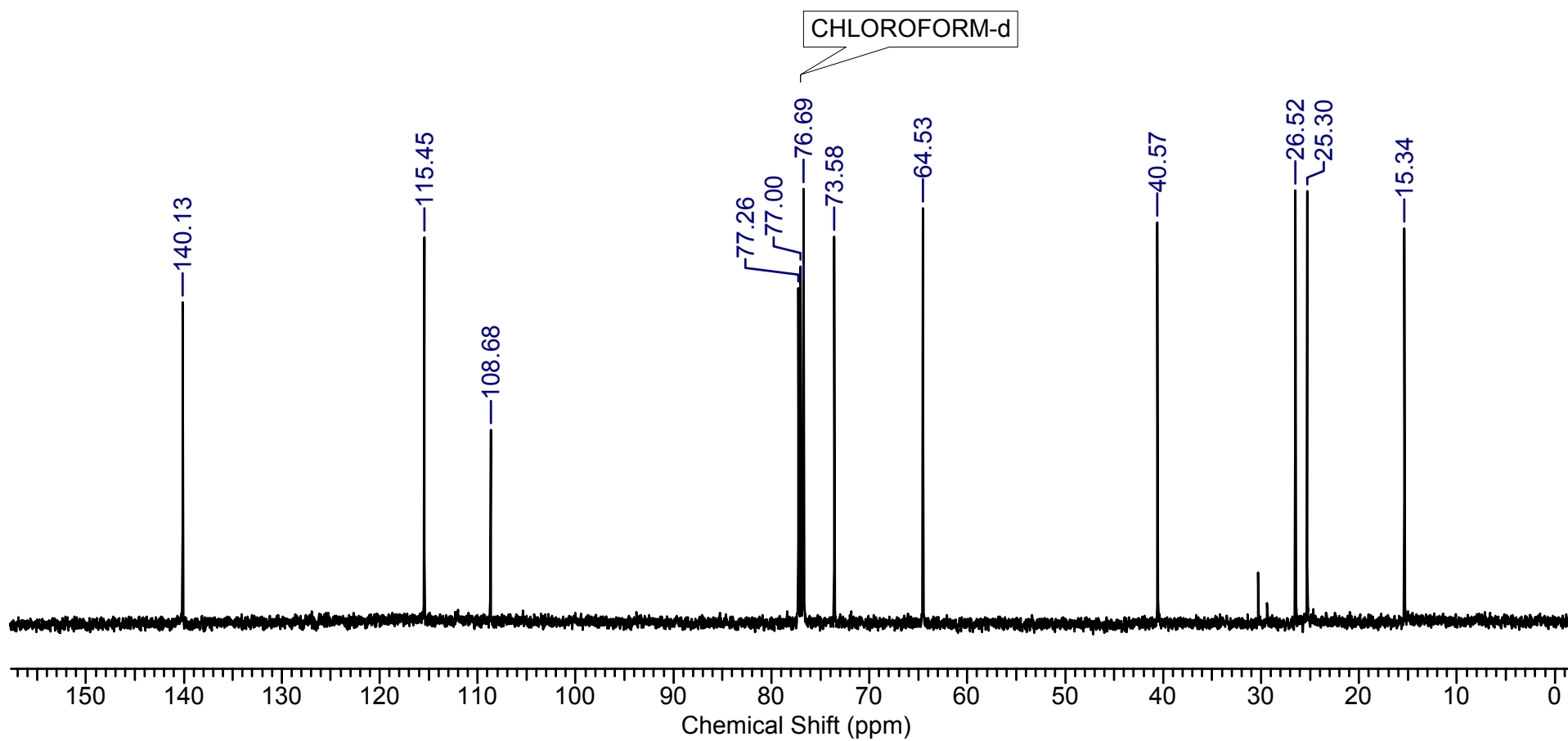
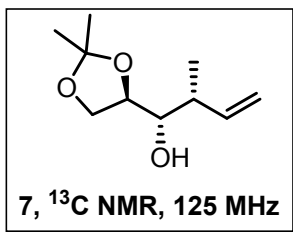
Table S1. Comparison of ^{13}C NMR Chemical Shift values

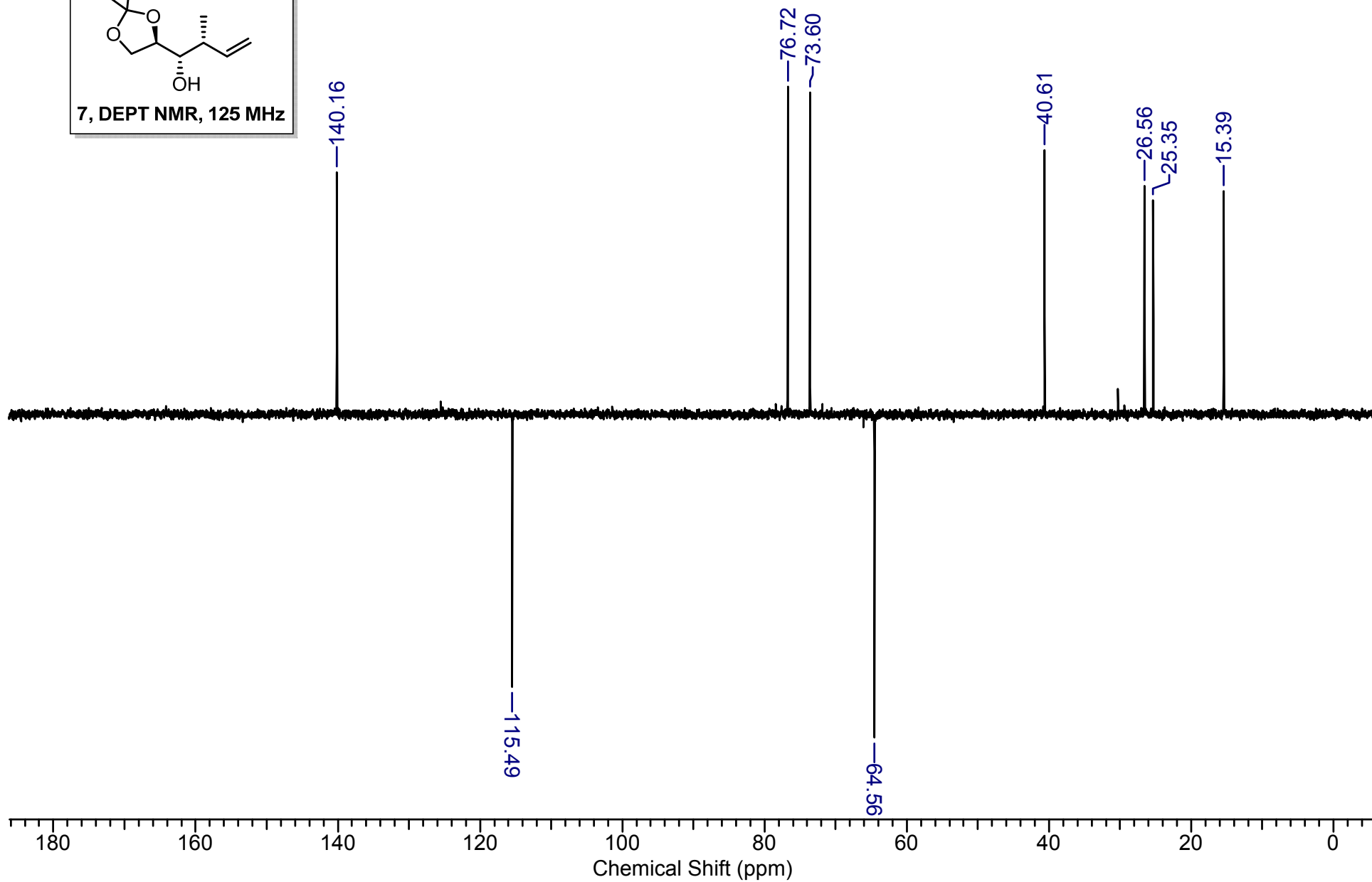
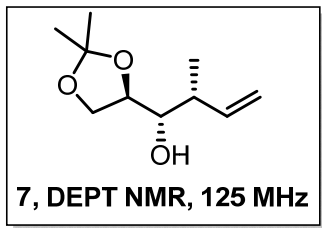
Position			
17	77.0	~77	77.7
18	38.9	—	—
19	151.8	151.5	150.9
20	79.5	79.9	79.9

References

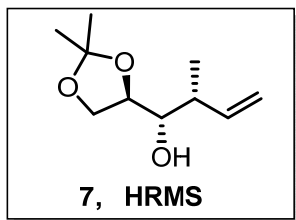
1. V. Mullapudi, I. Ahmad, S. Senapati, C. V. Ramana, *ACS Omega* 2020, **5**, 25334.
2. A. S. Murthy, B. Mahipal, S. Chandrasekhar, *Eur. J. Org. Chem.* 2012, 6959.
3. F. Belanger, C. E. Chase, A. Endo, F. G. Fang, J. Li, S. R. Mathieu, A. Z. Wilcoxon, H. Zhang, *Angew. Chem. Int. Ed.* 2015, **54**, 1.



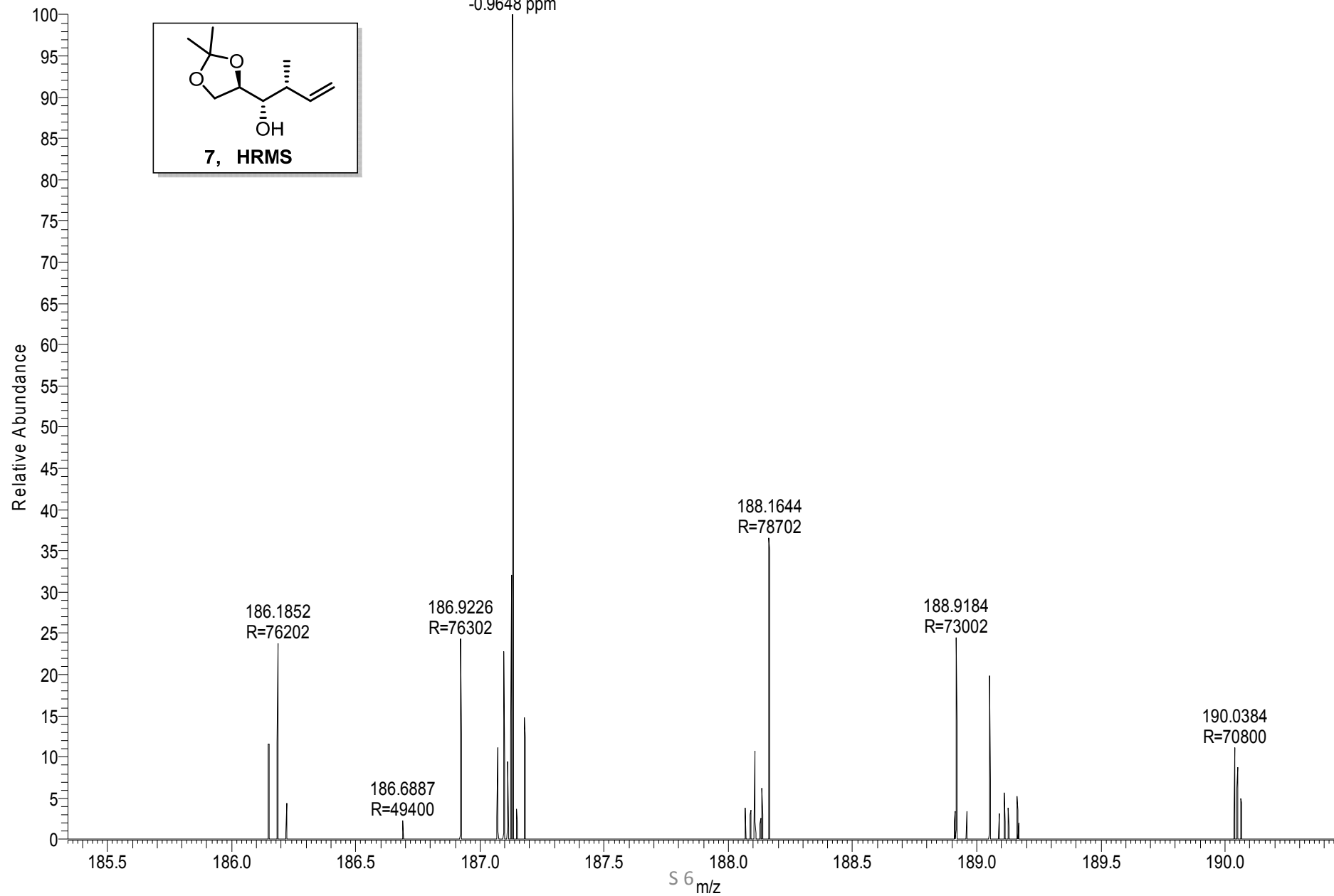


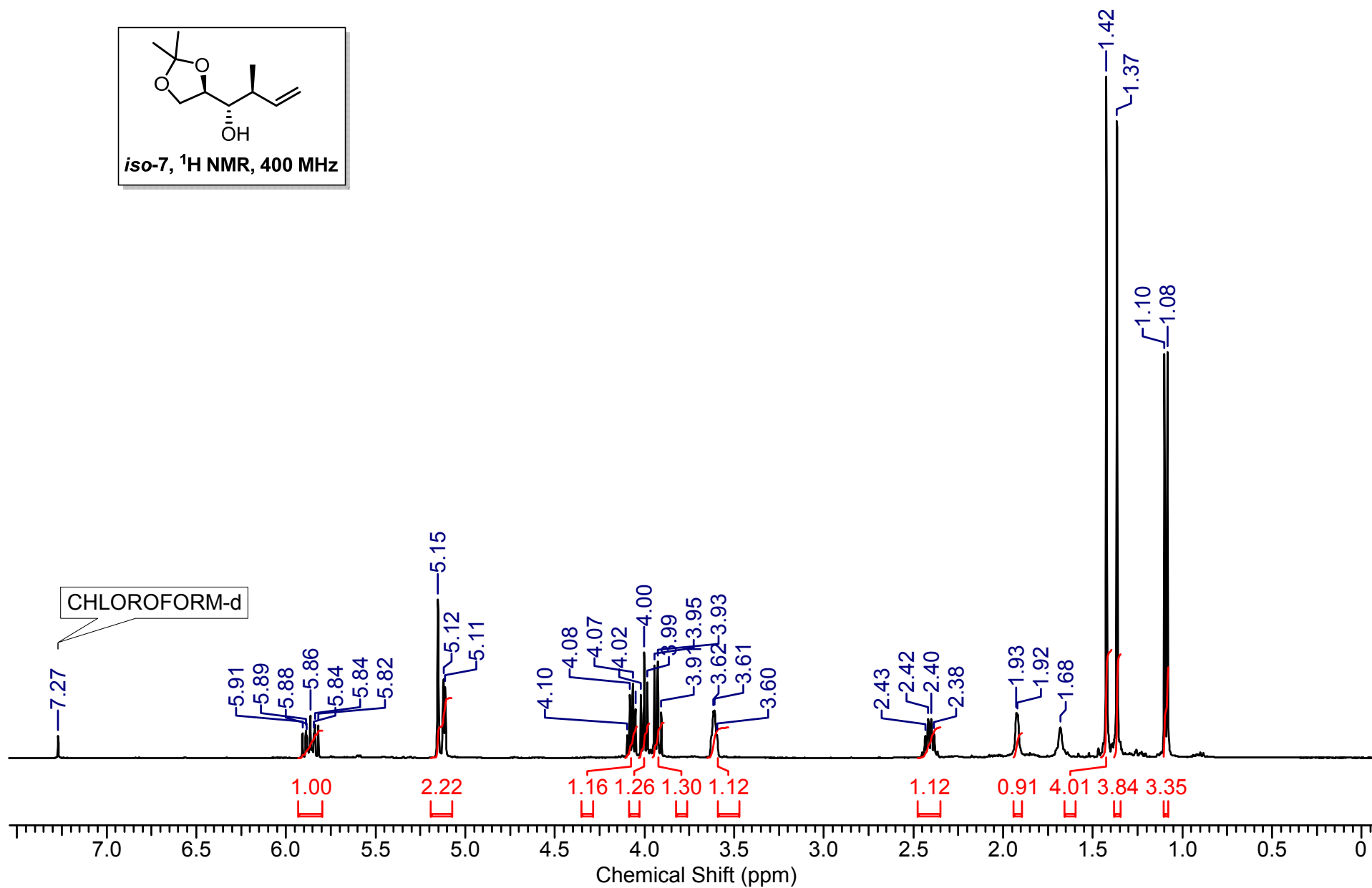
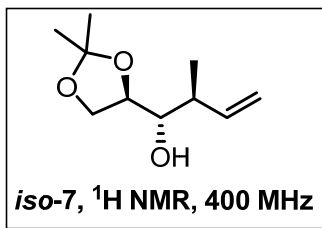


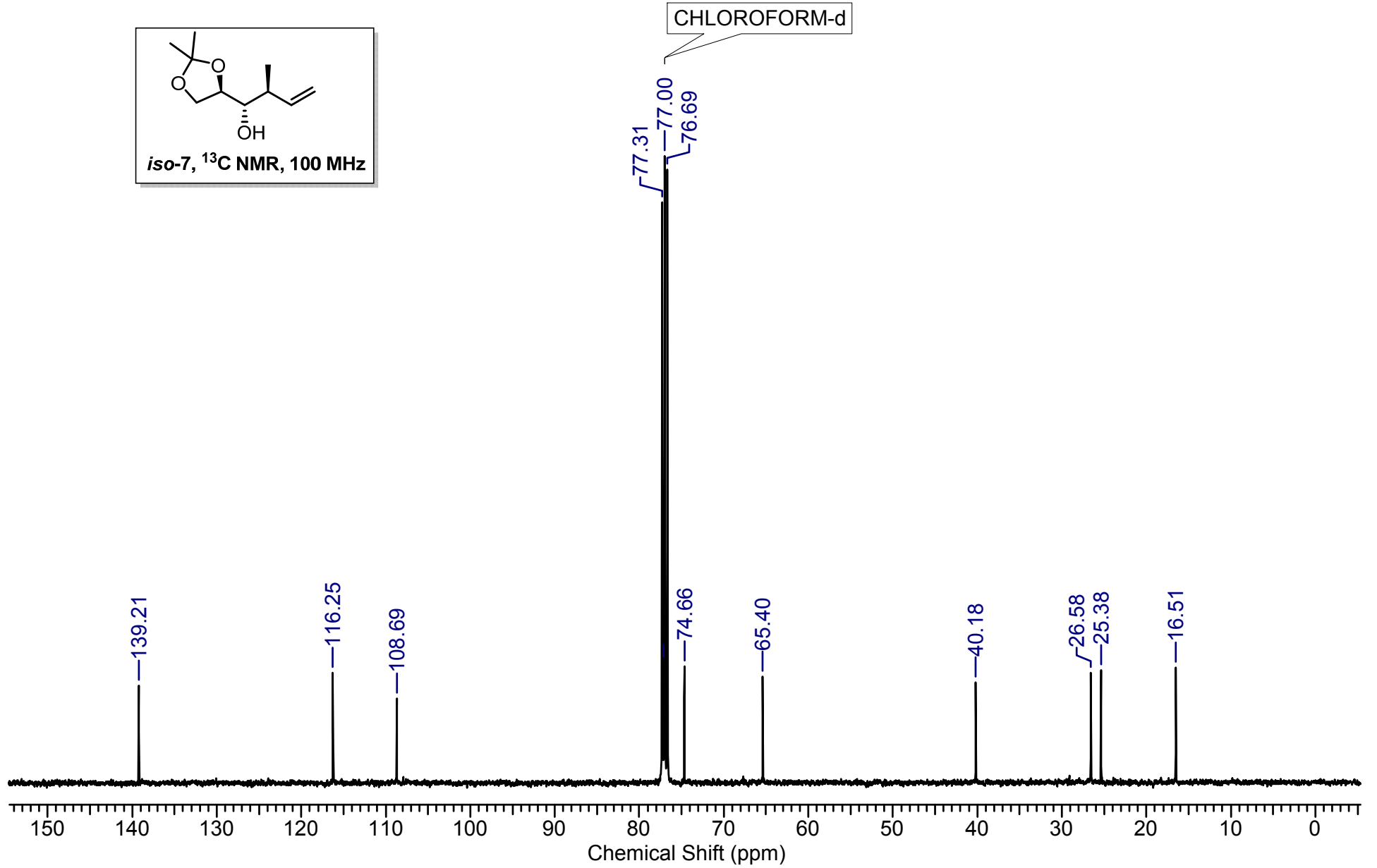
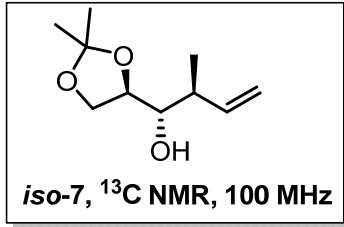
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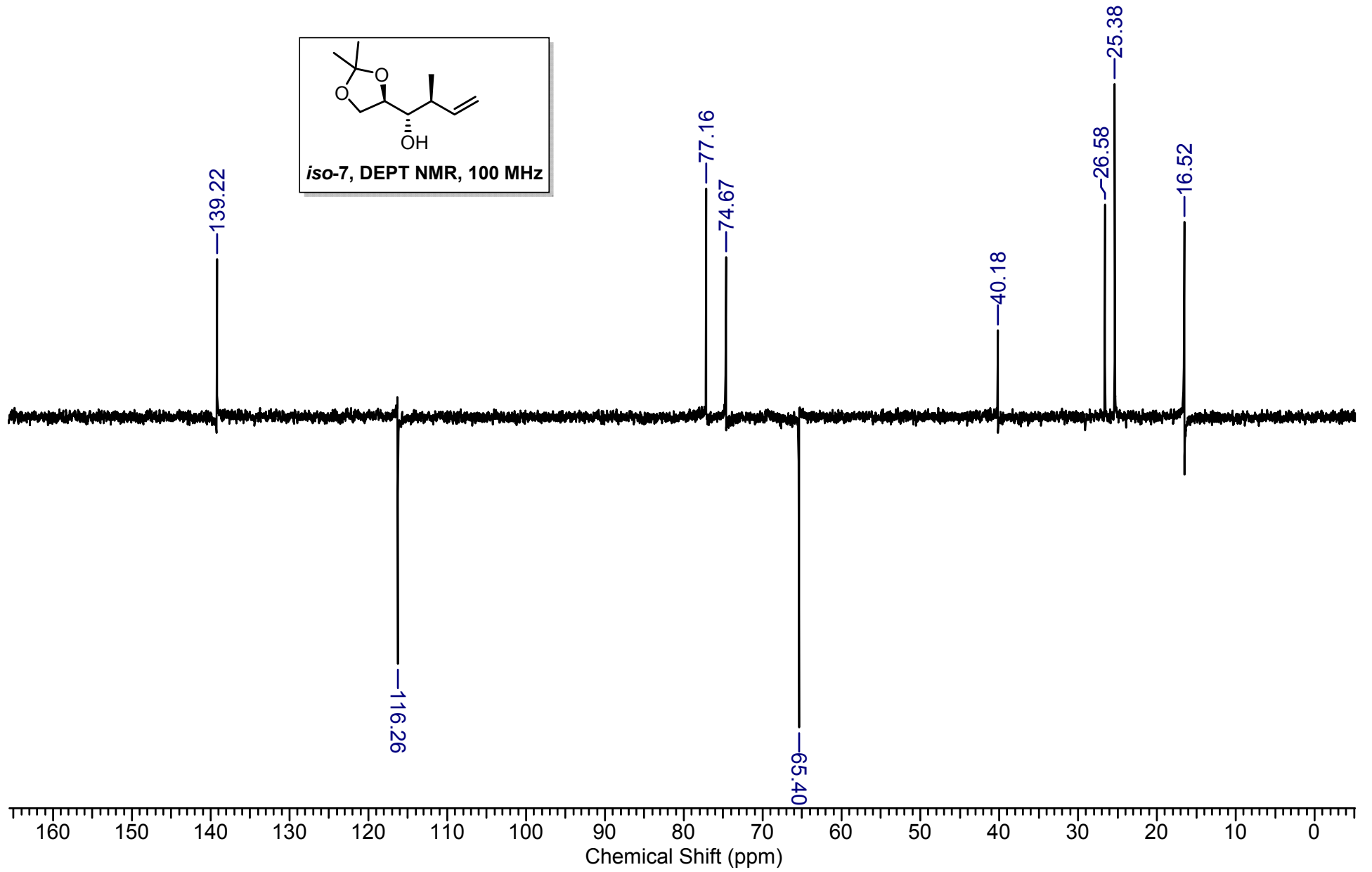
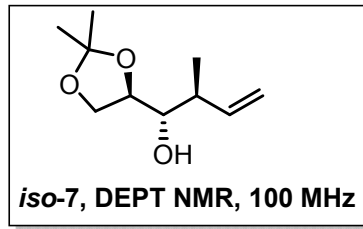


187.1327
R=81507
 $C_{10}H_{19}O_3 = 187.1329$
-0.9648 ppm

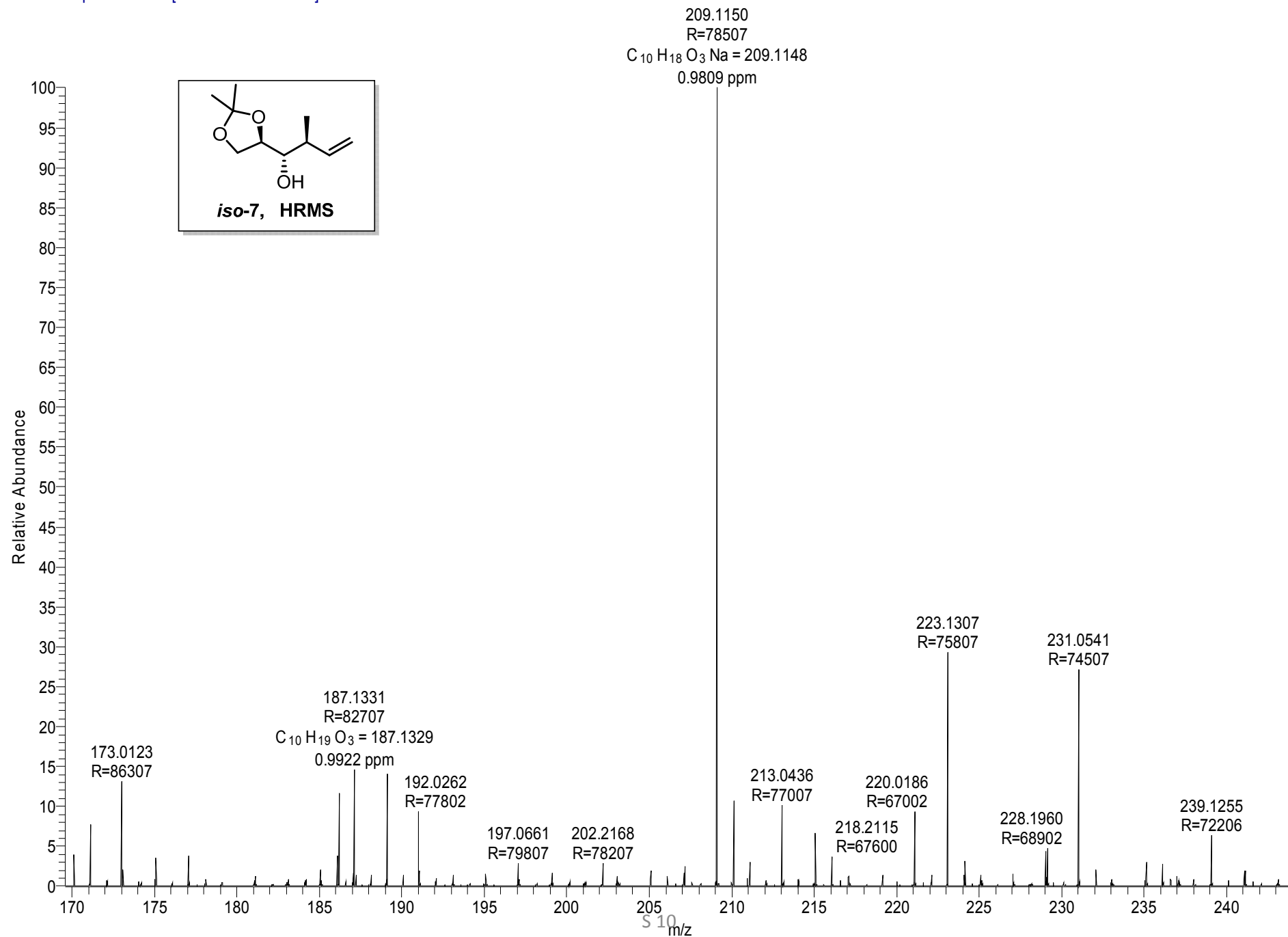
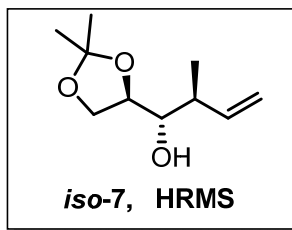


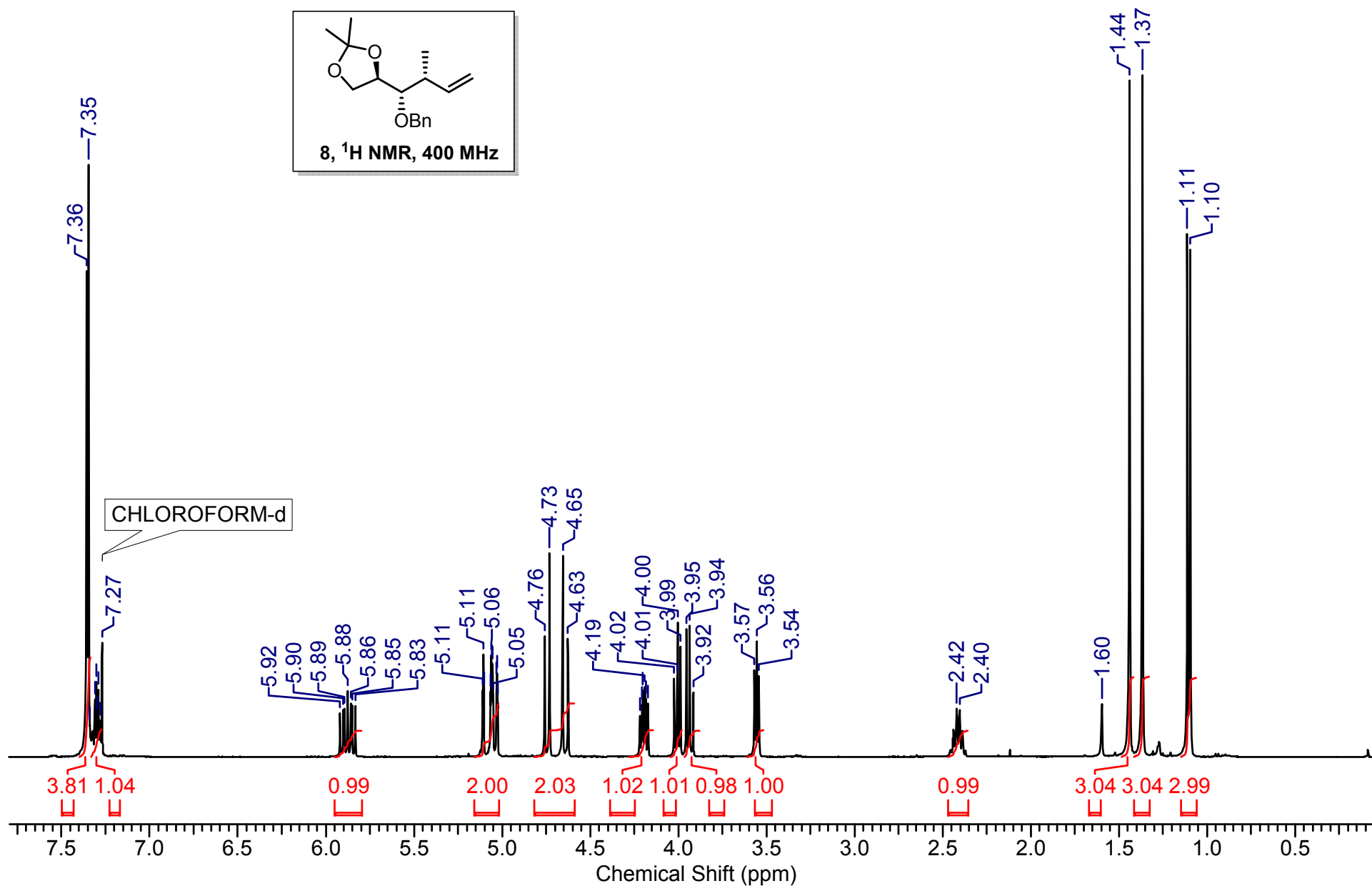
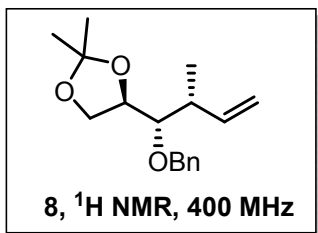


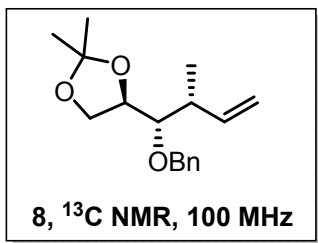




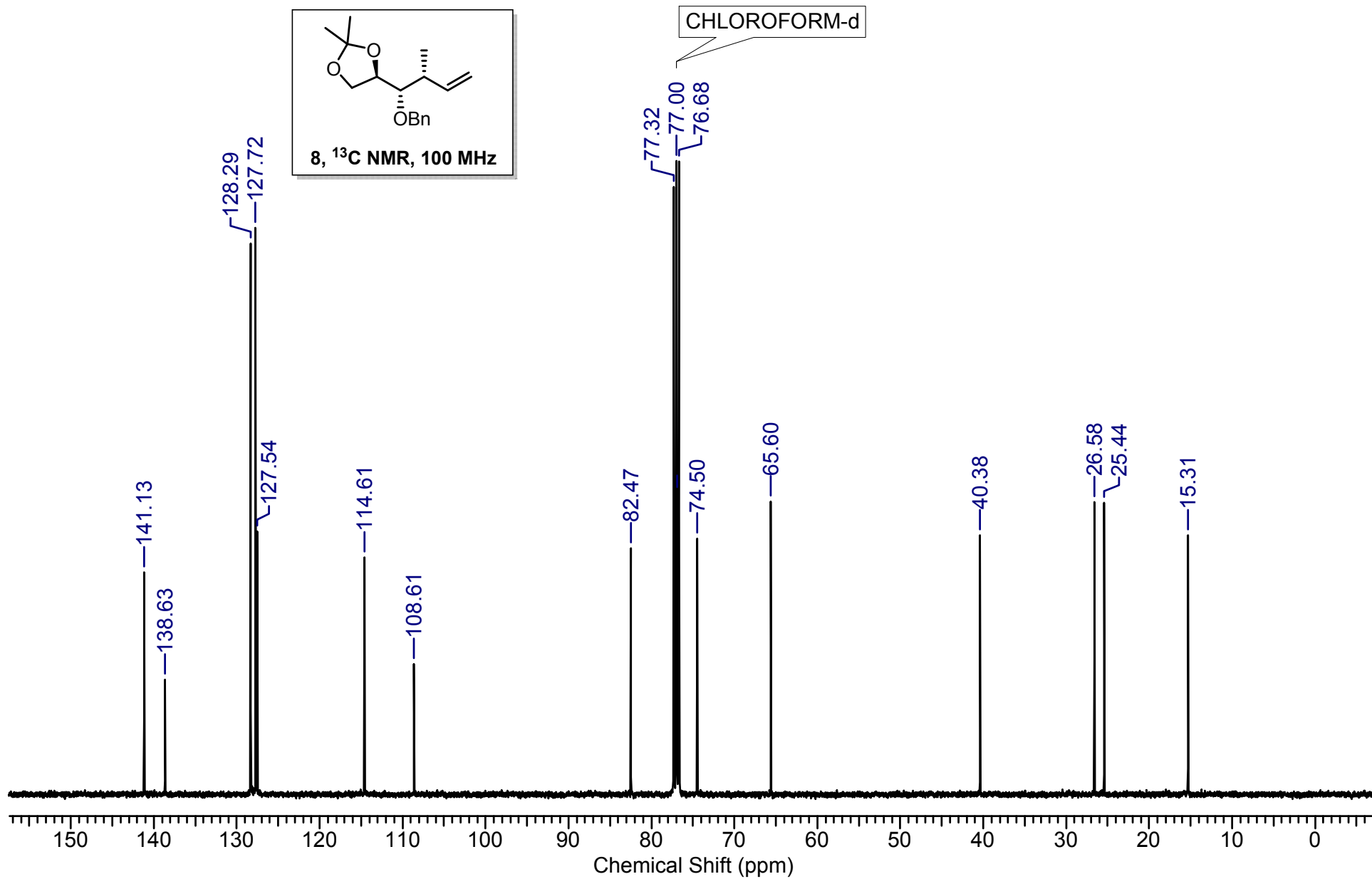
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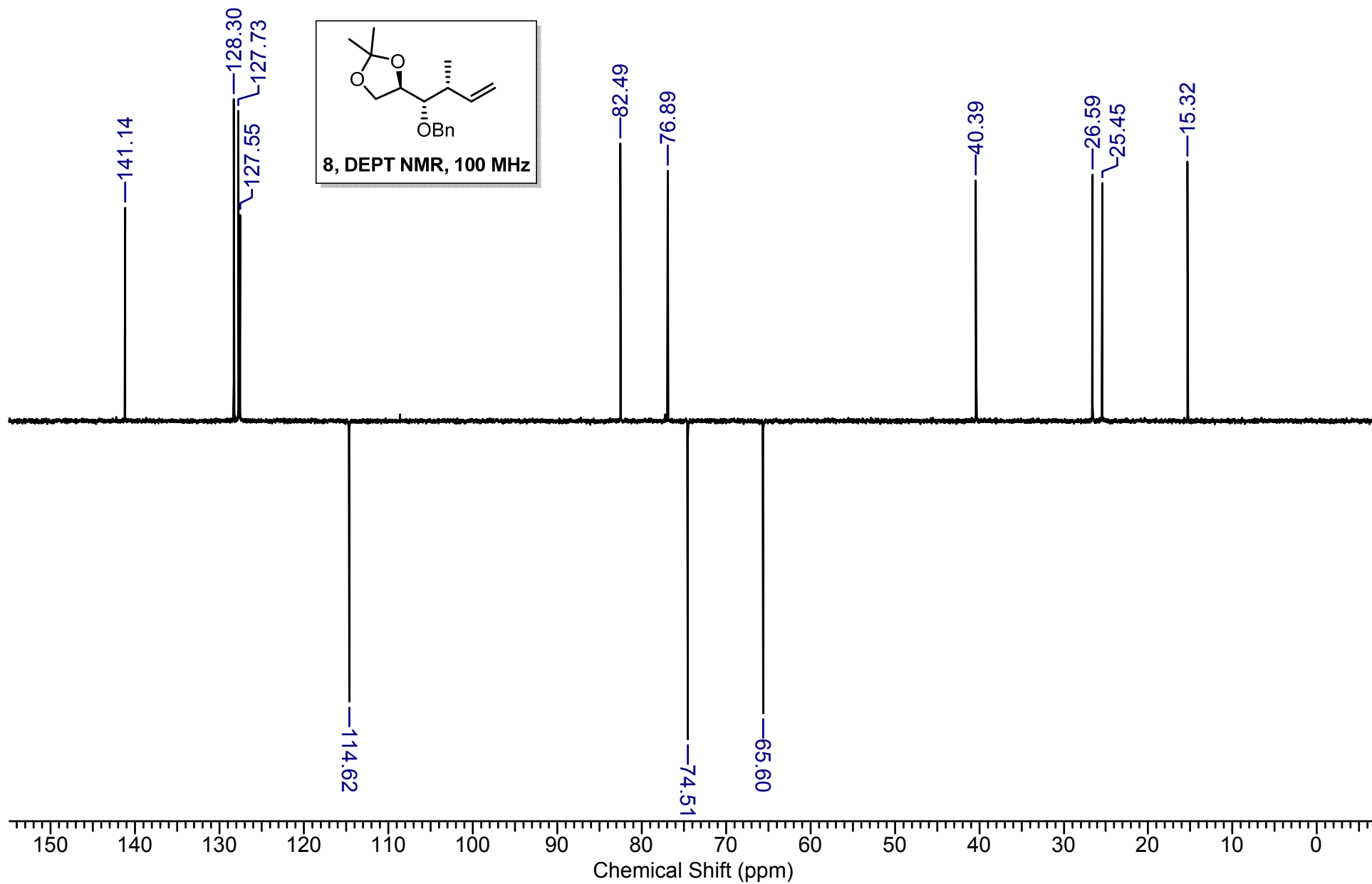






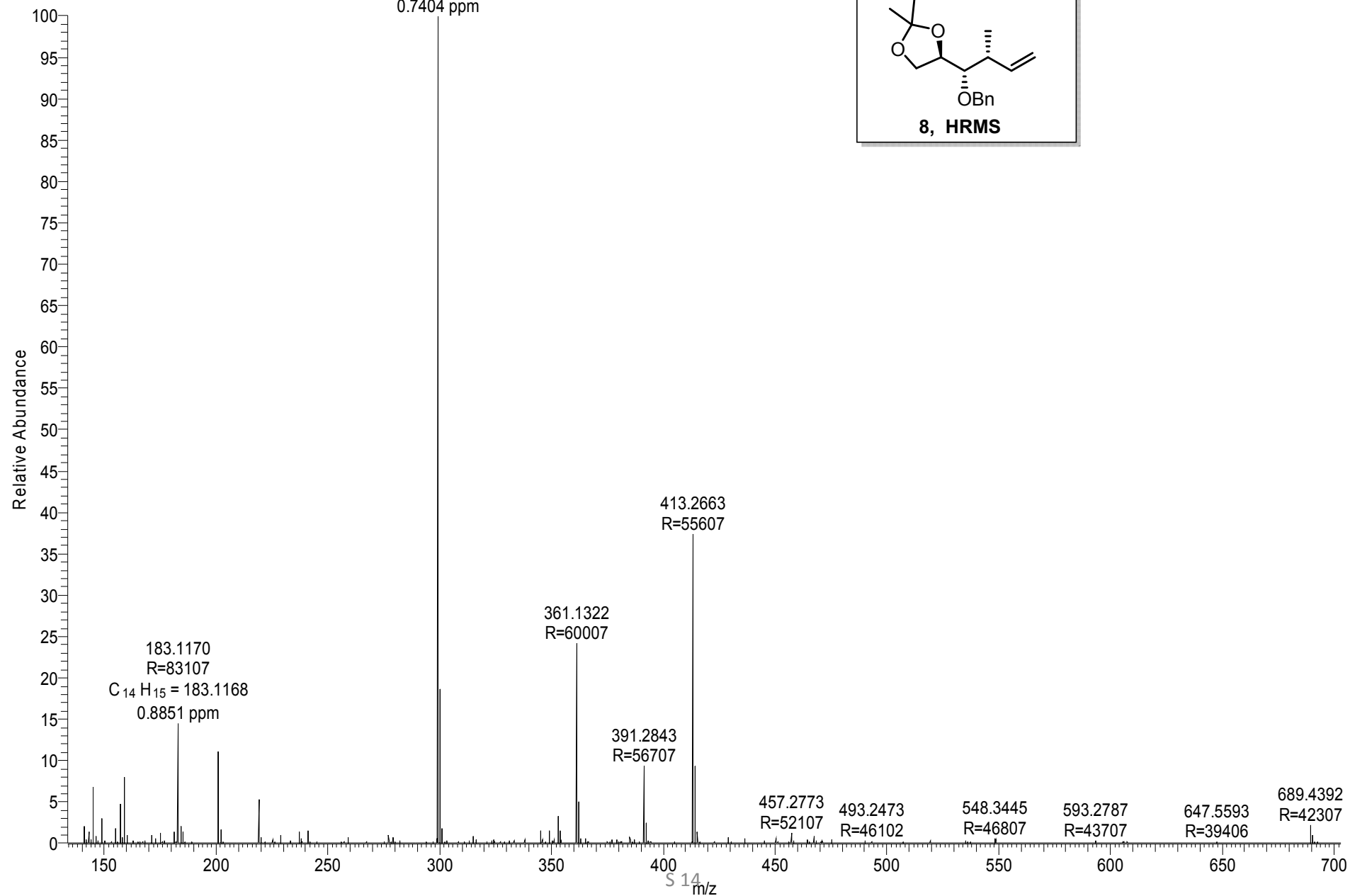
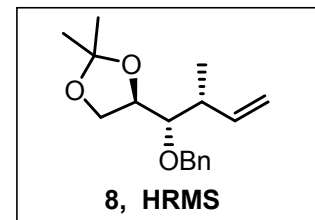
CHLOROFORM-d

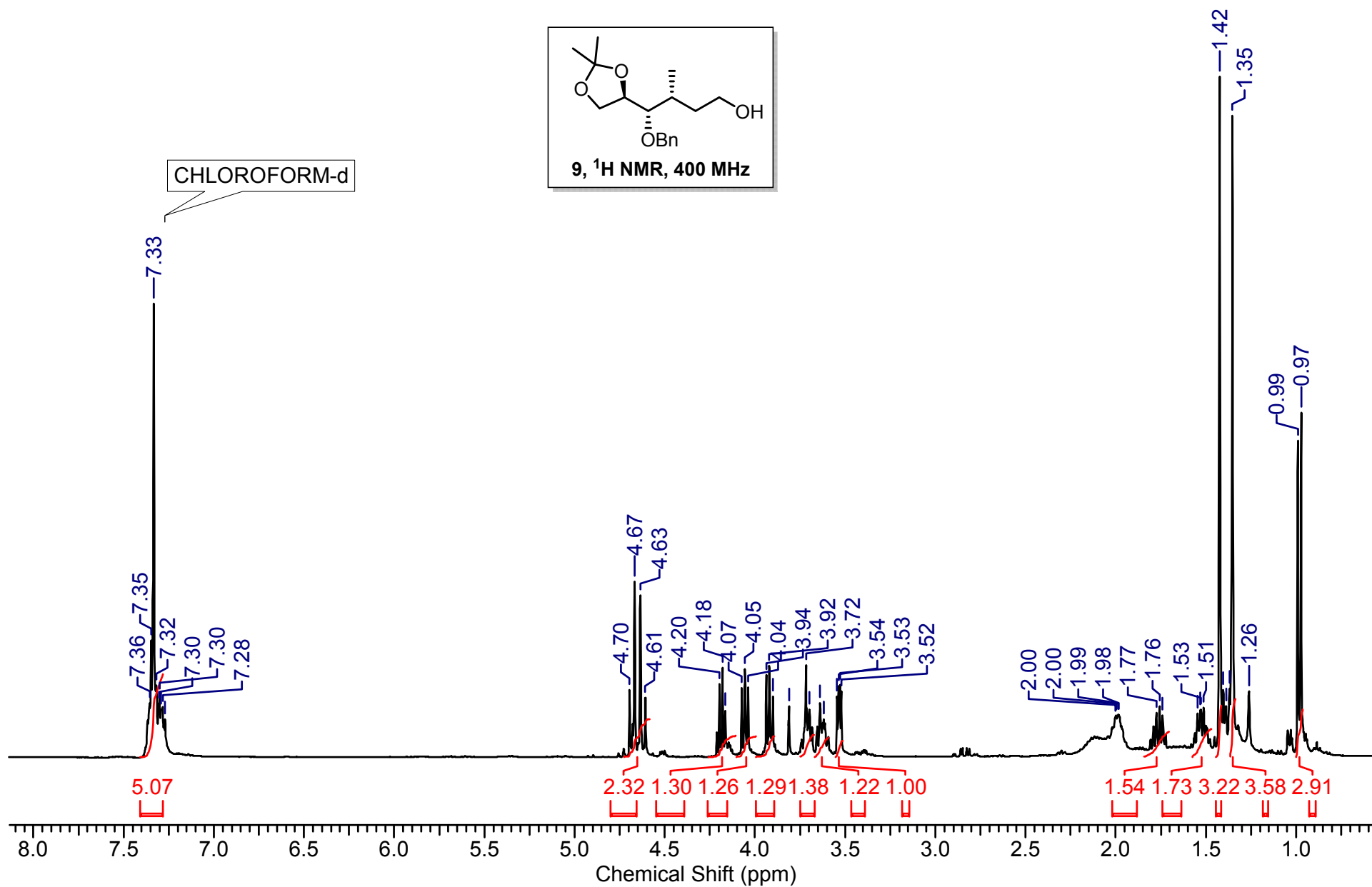
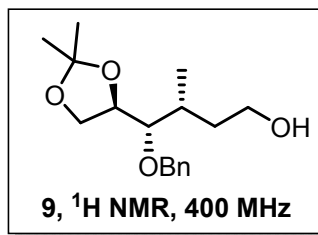


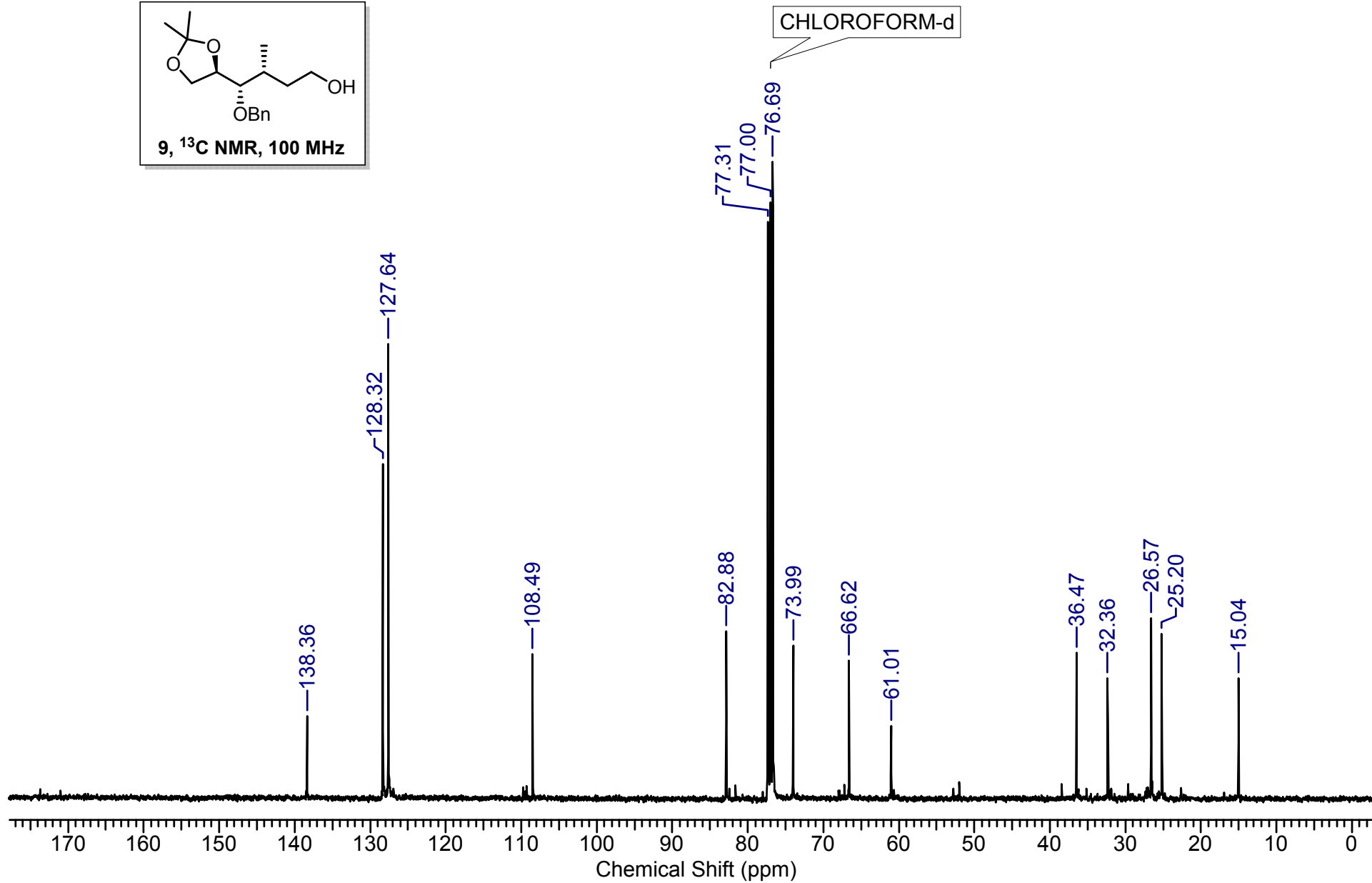
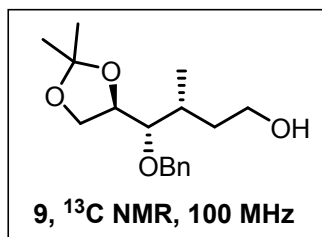


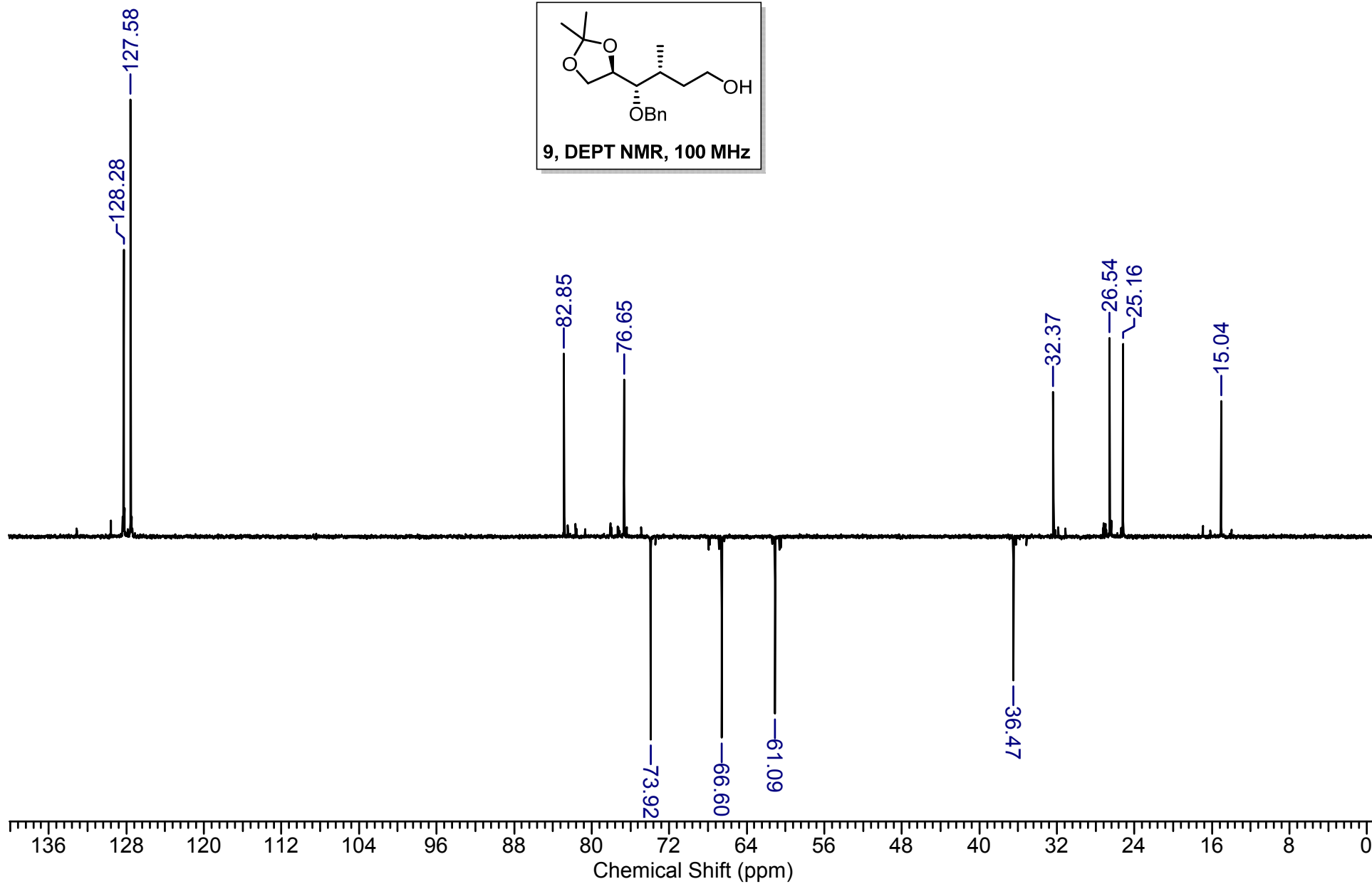
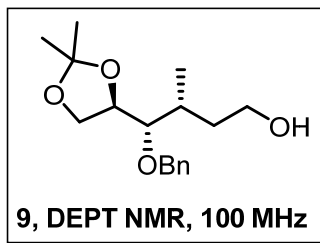
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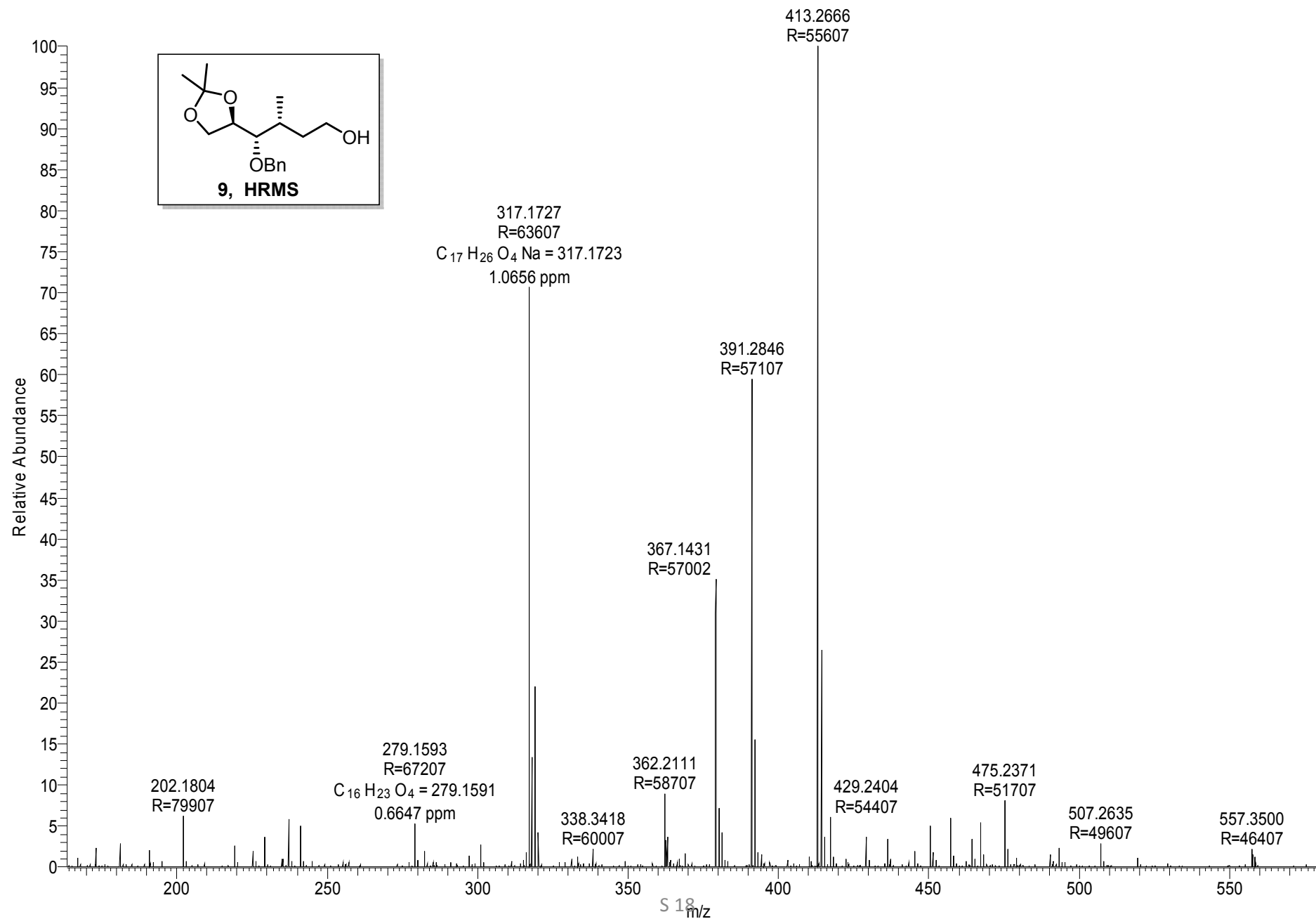
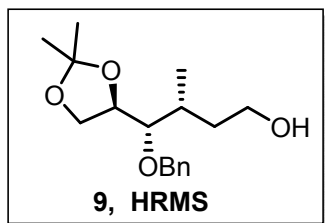
299.1620
R=65707
C₁₇ H₂₄ O₃ Na = 299.1618
0.7404 ppm

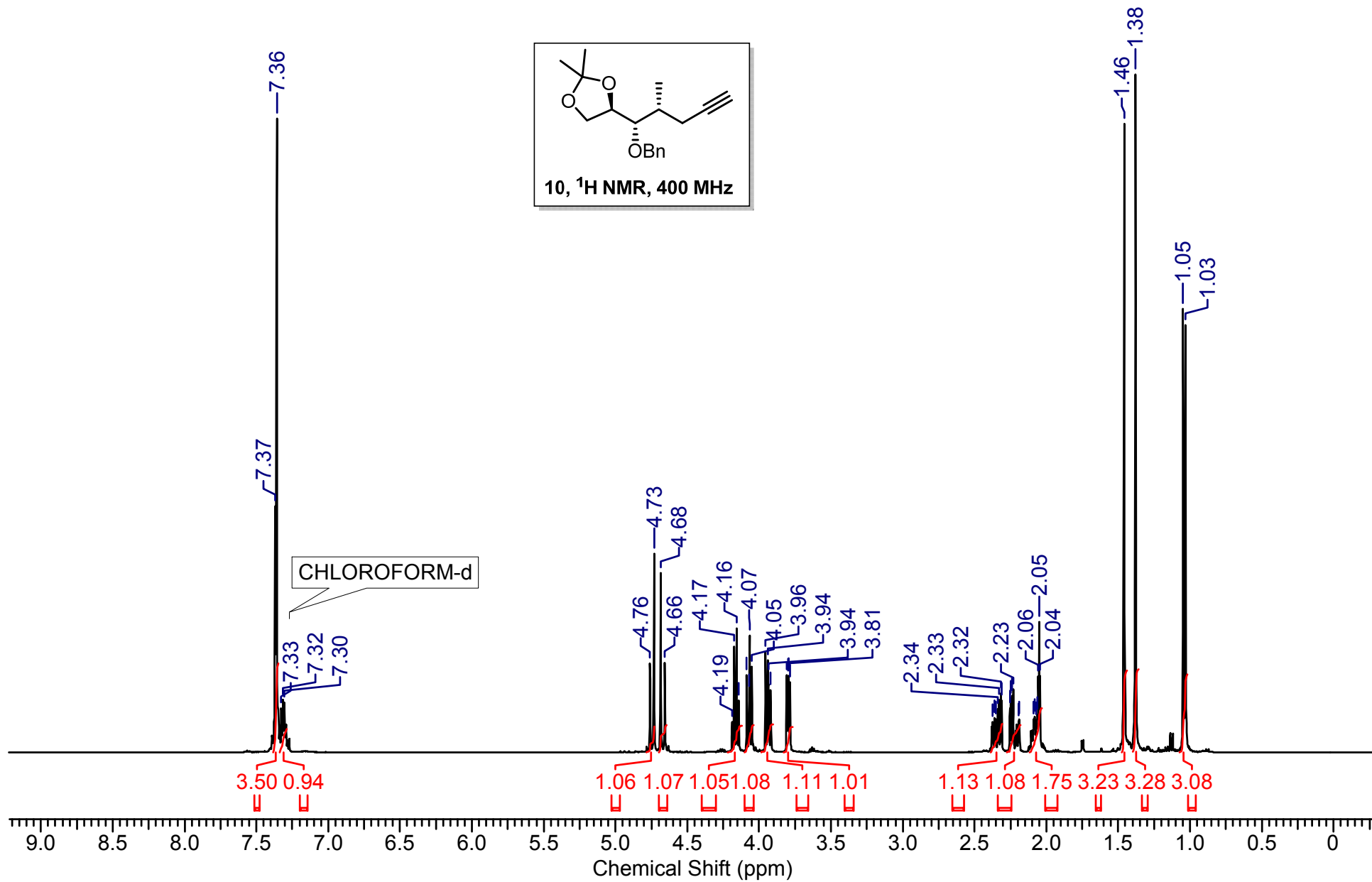


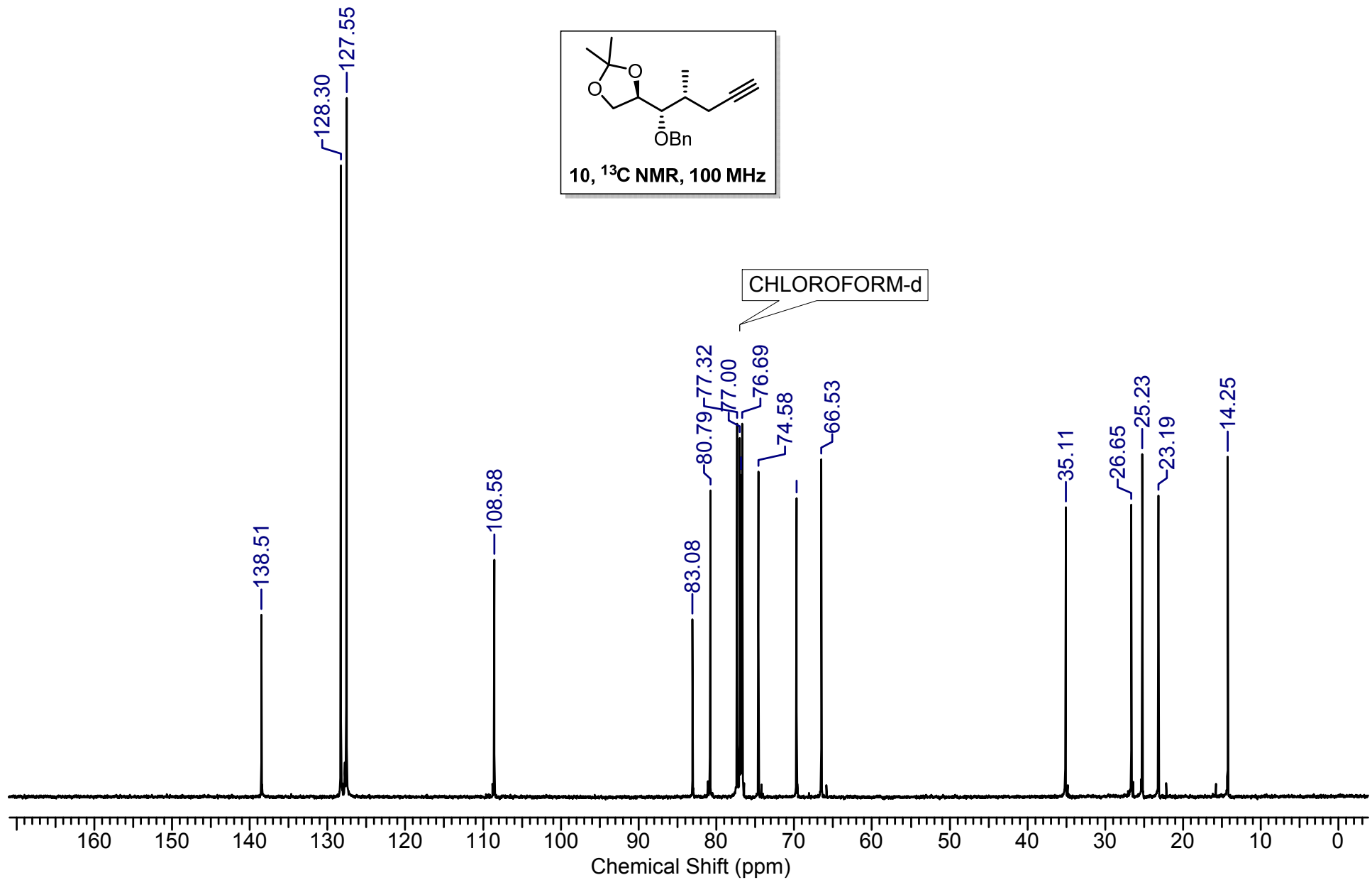
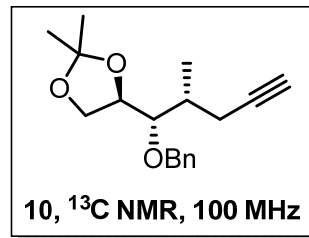


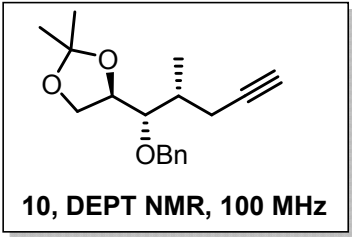
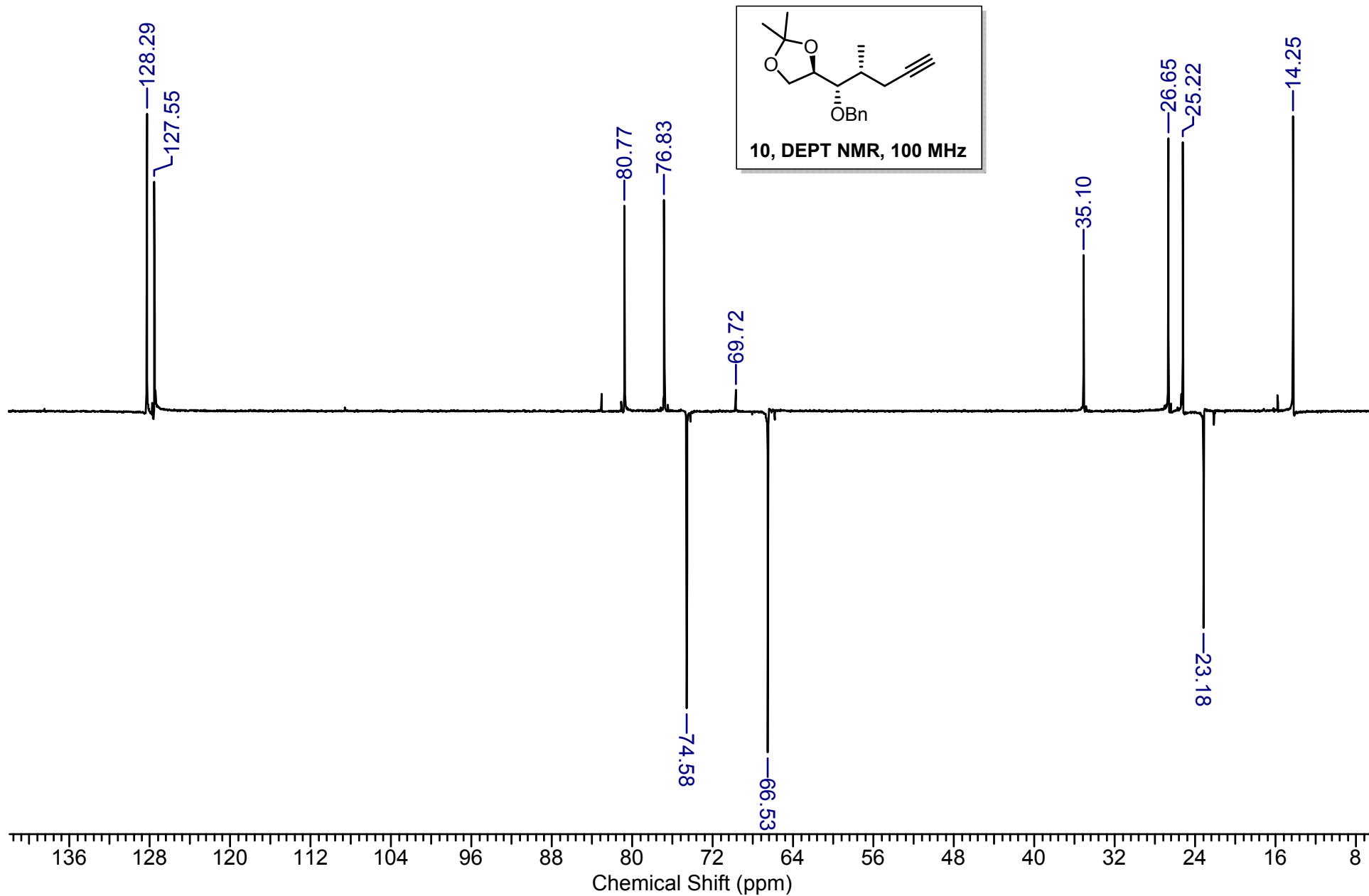




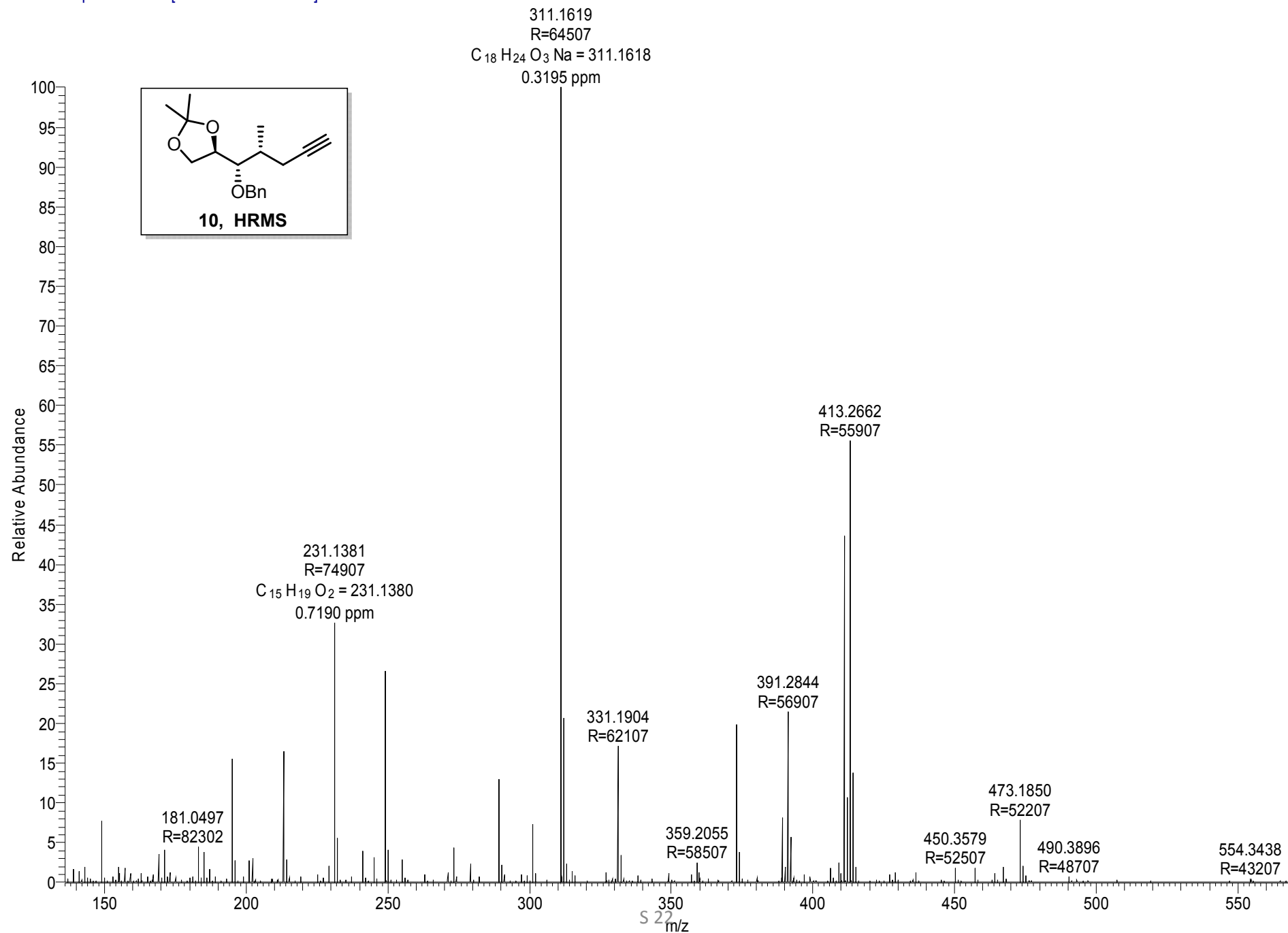
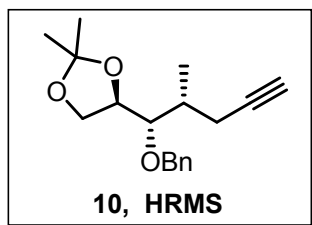


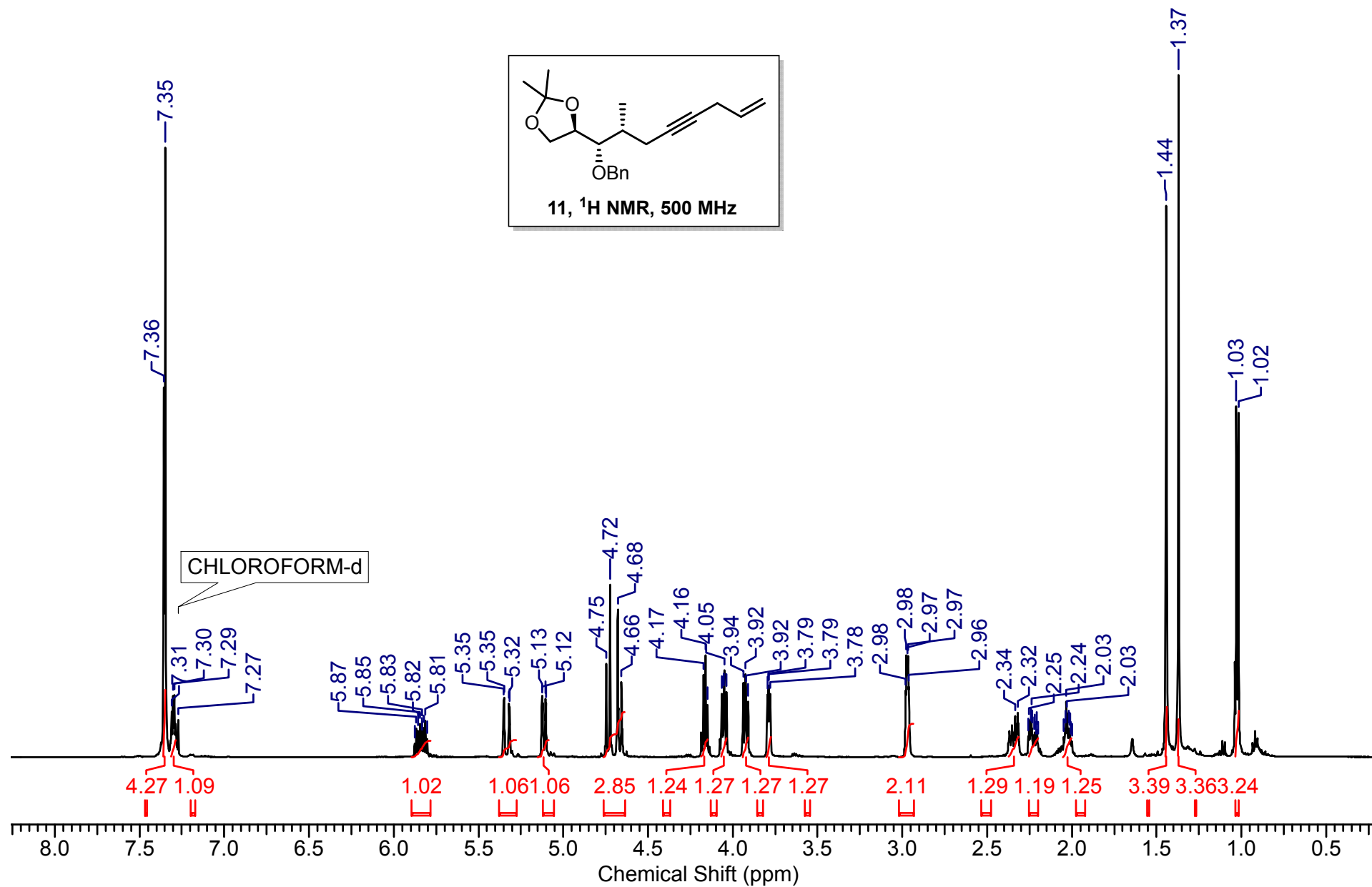


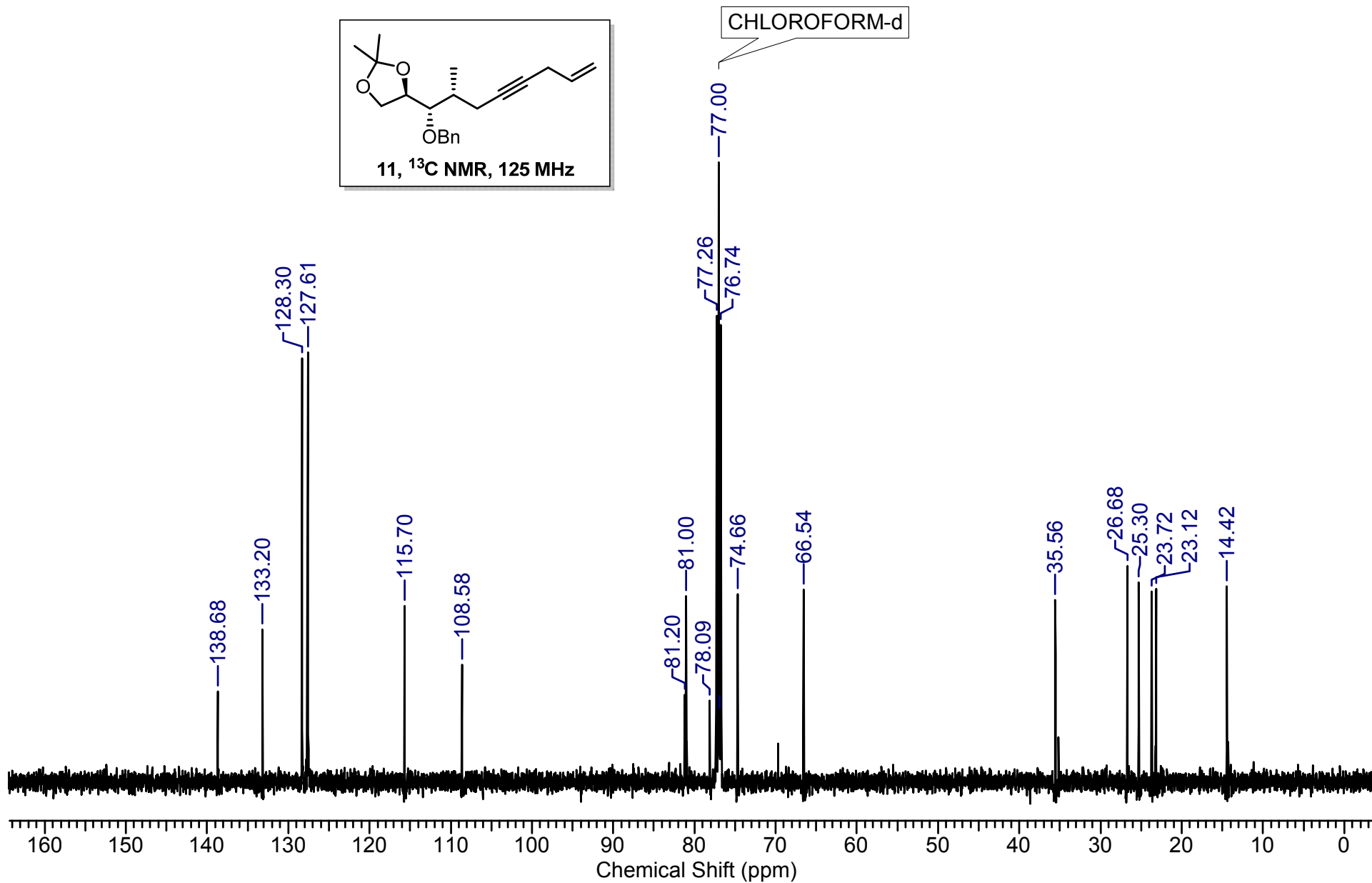
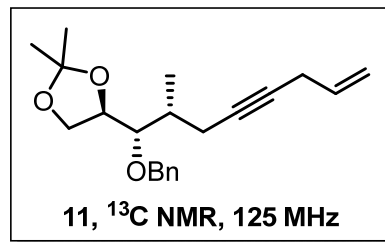


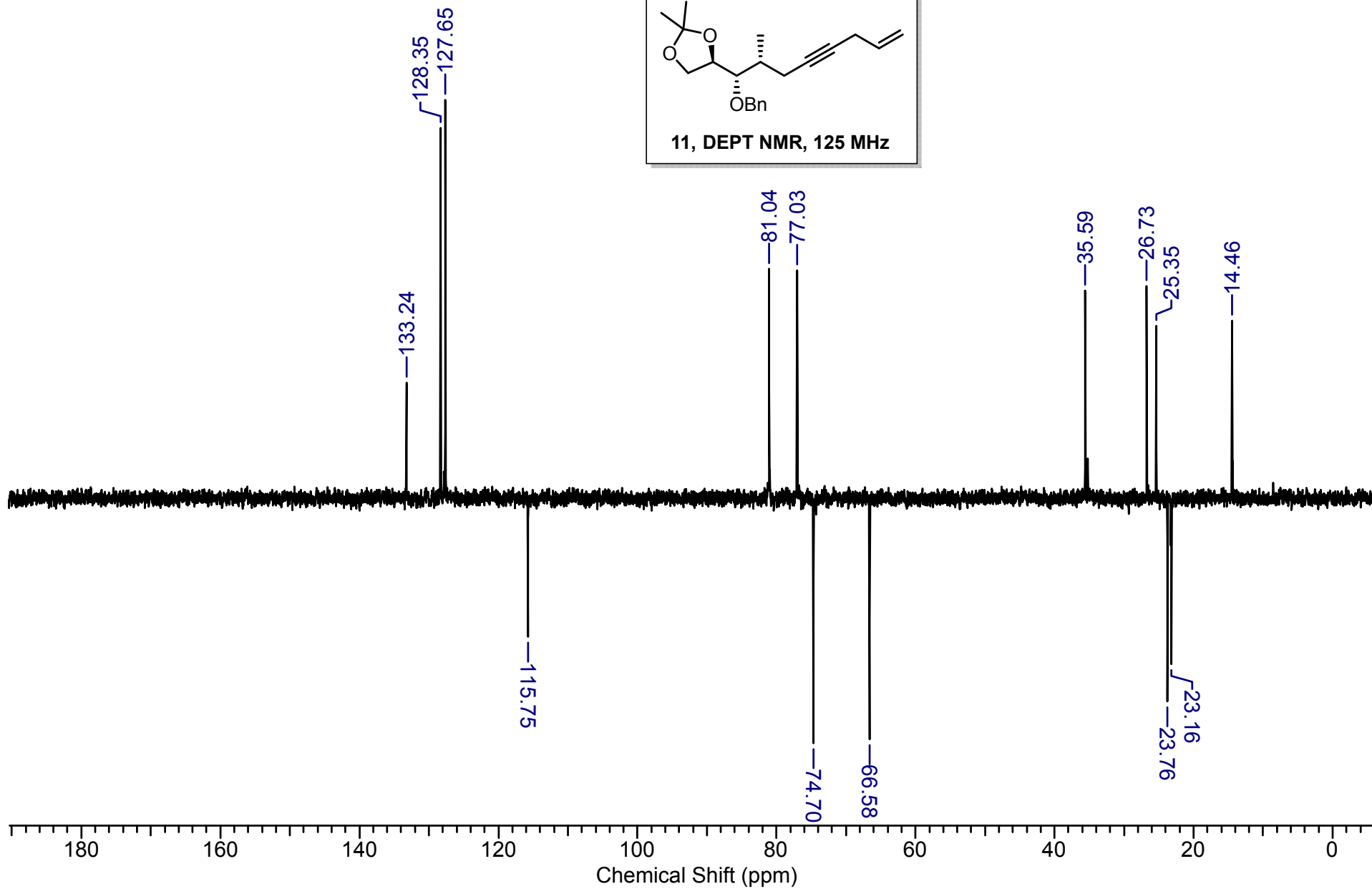
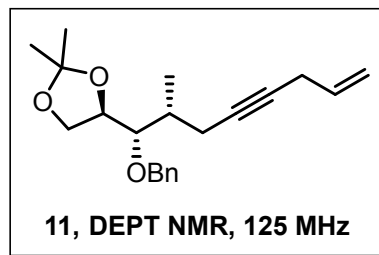


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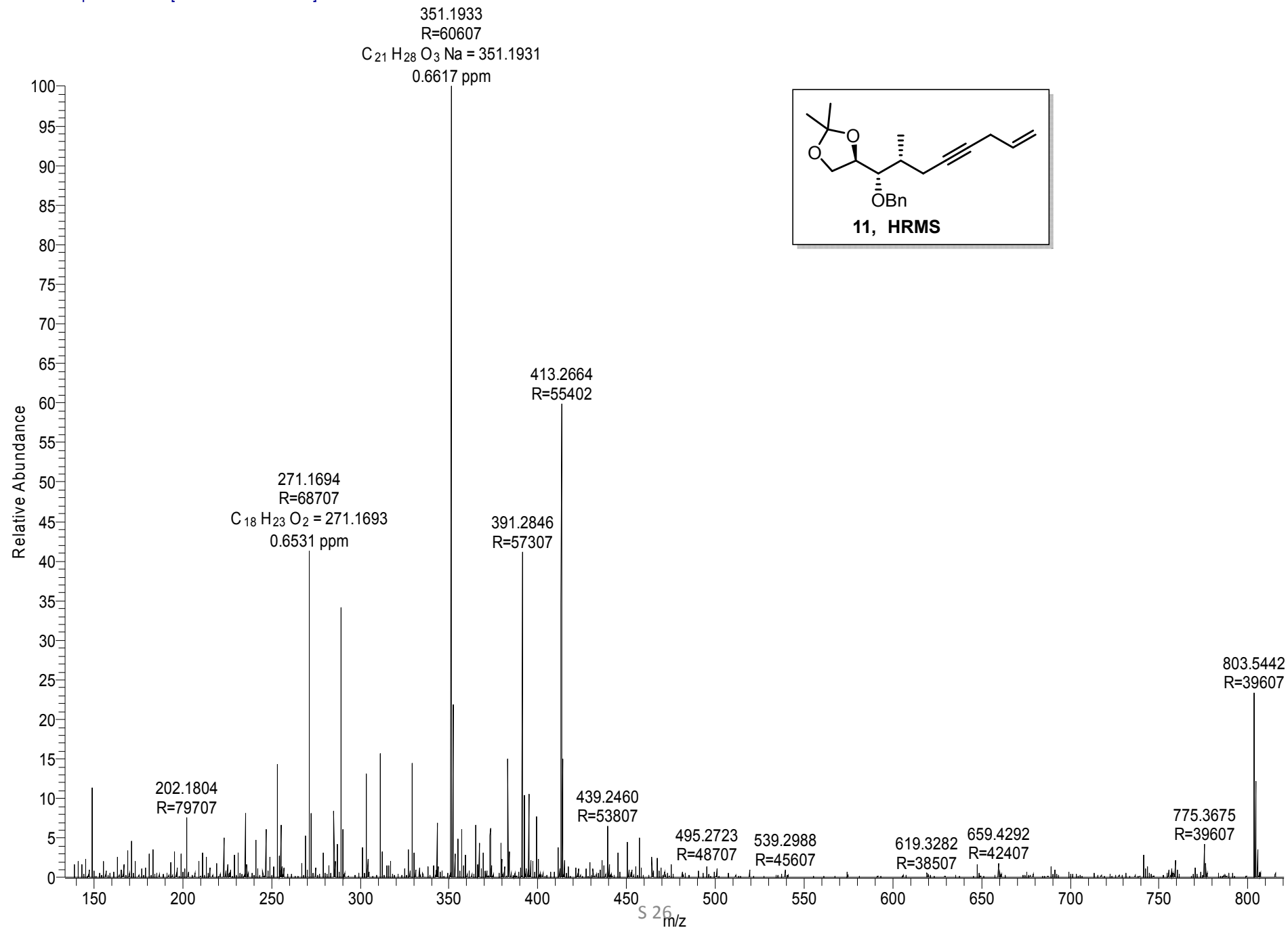


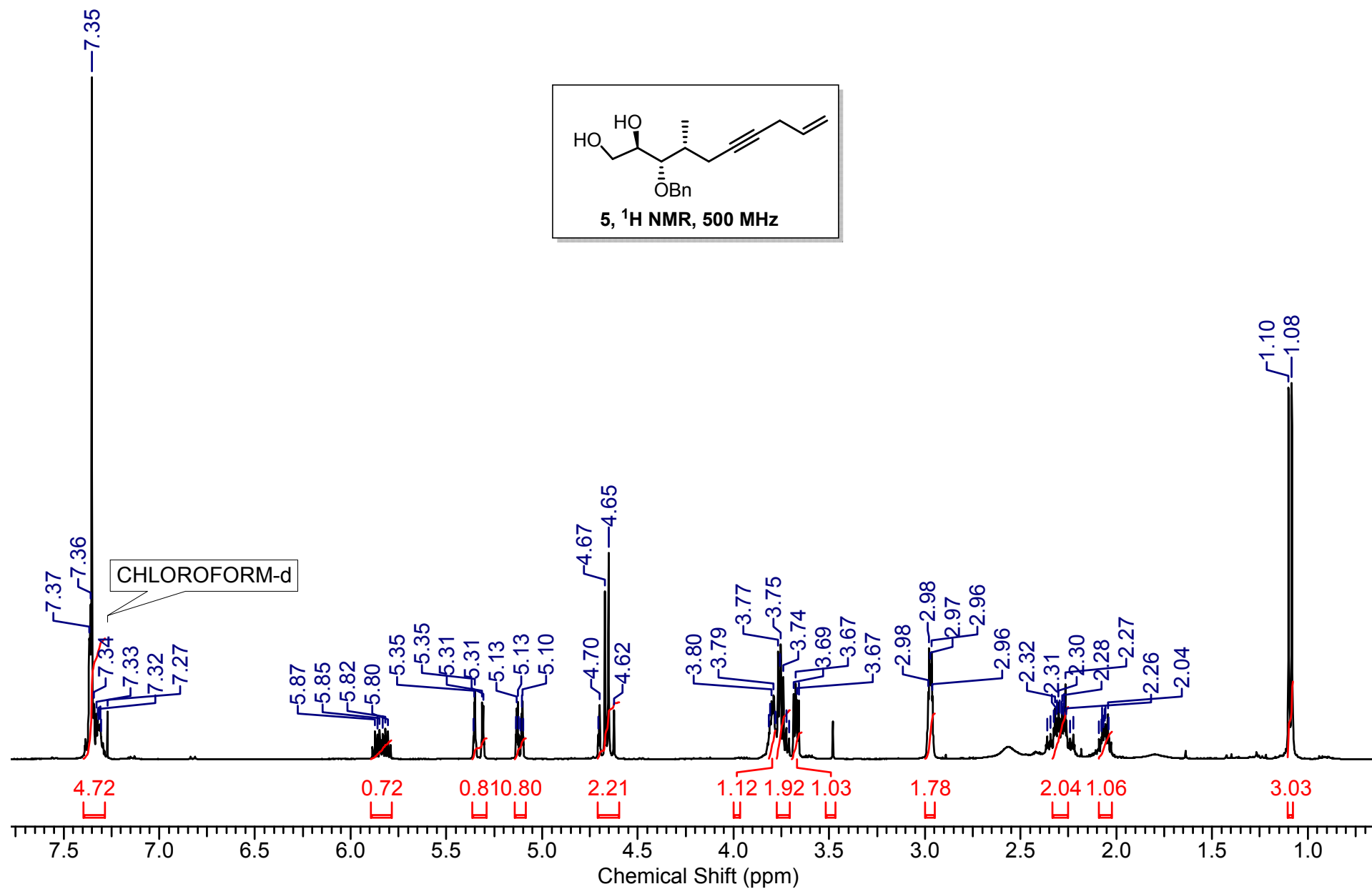


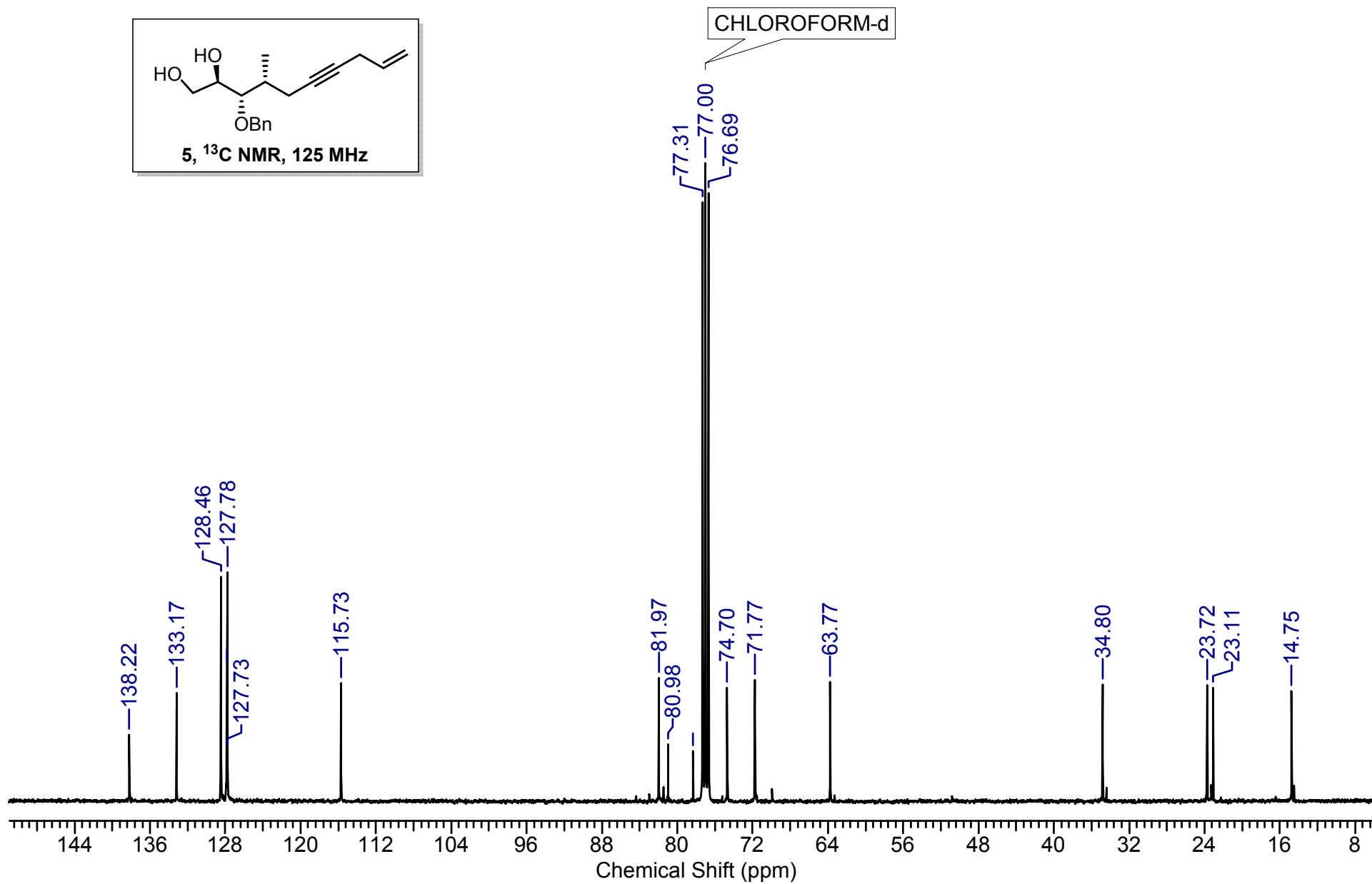
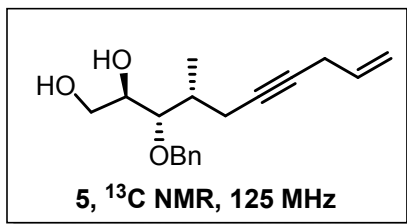


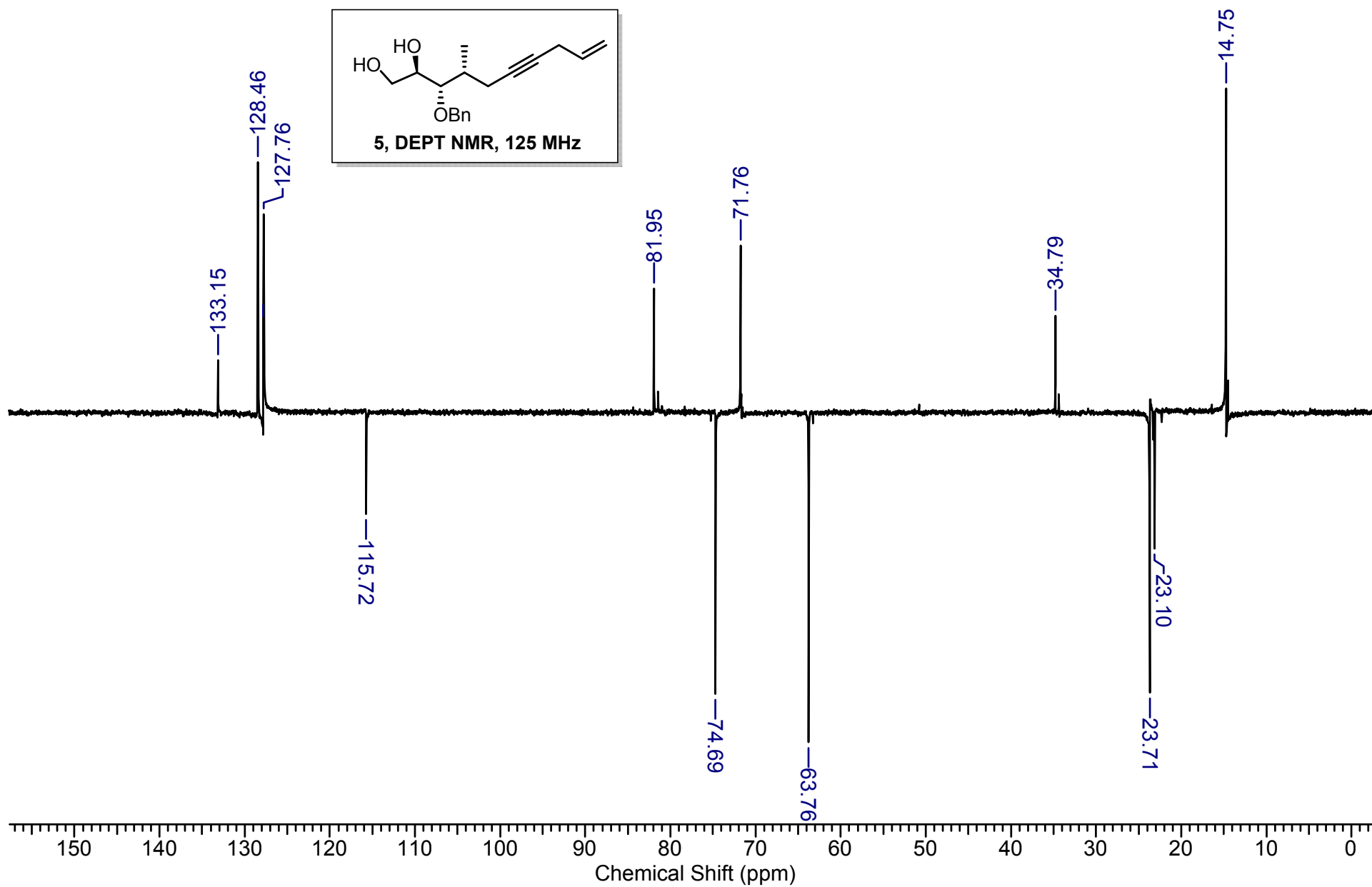
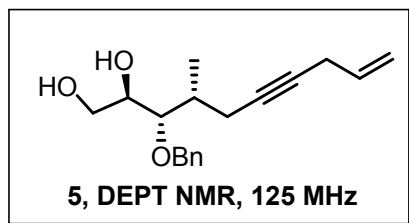


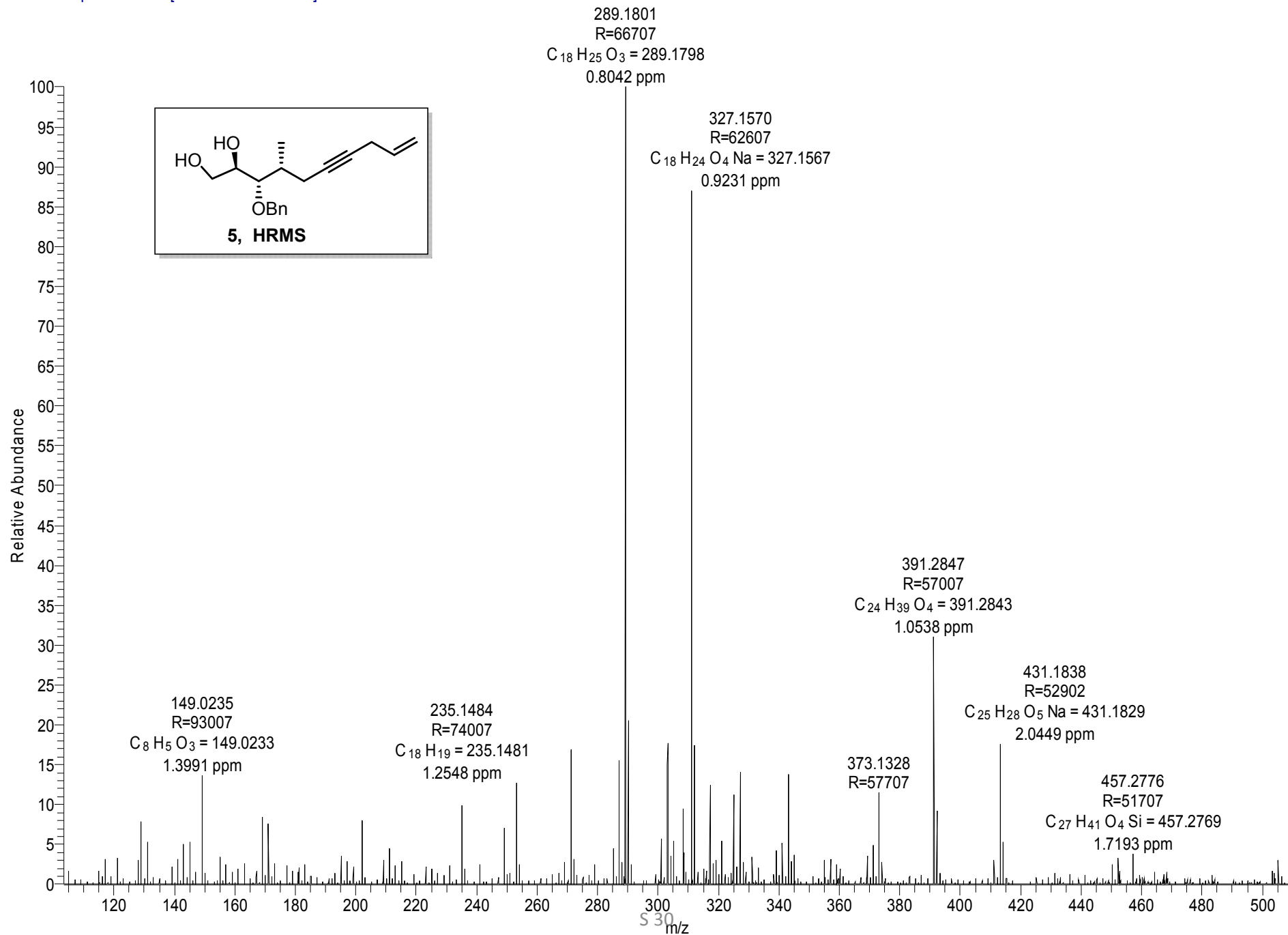
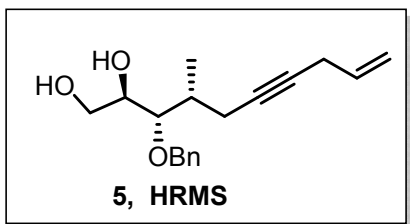
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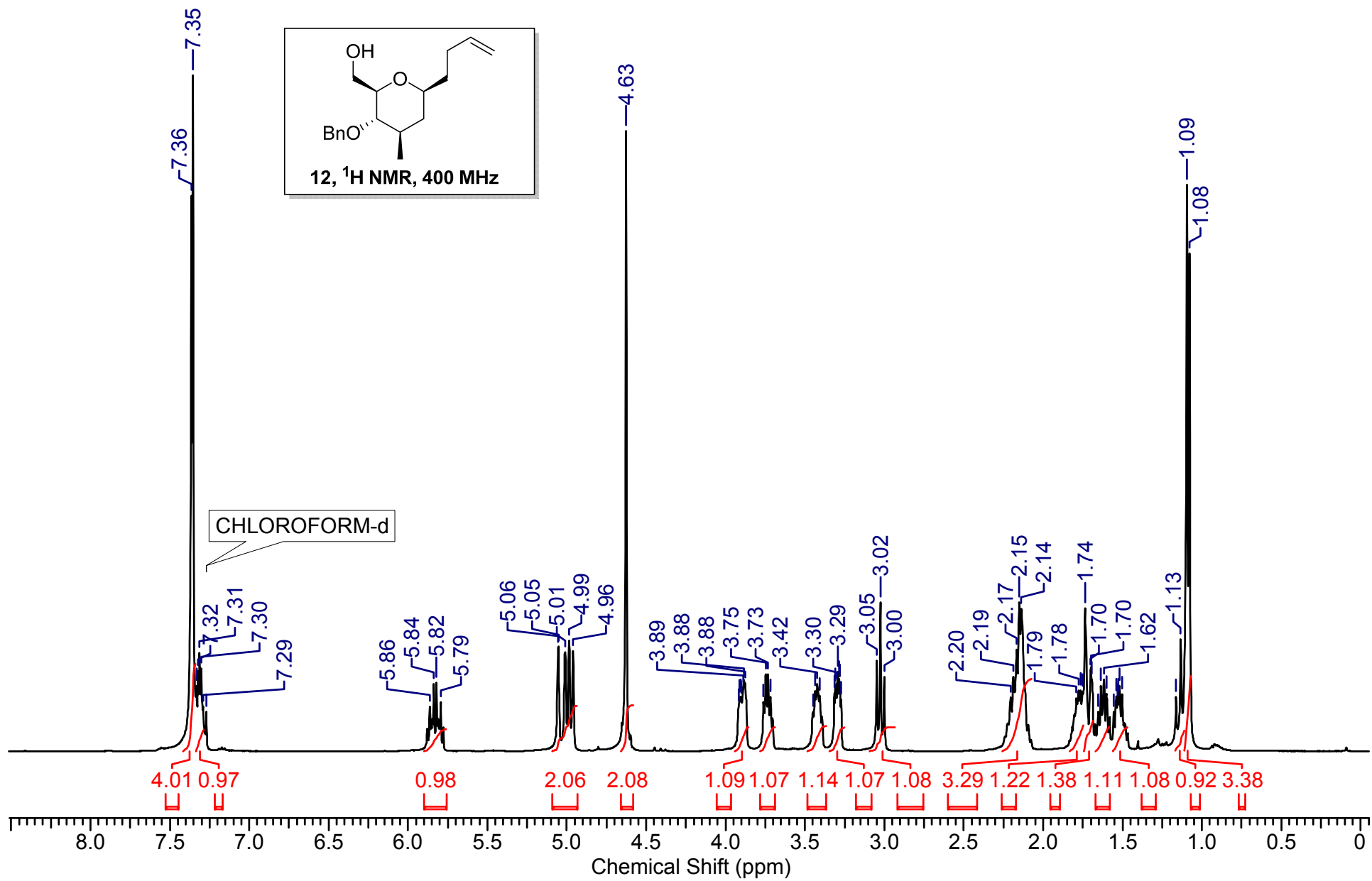


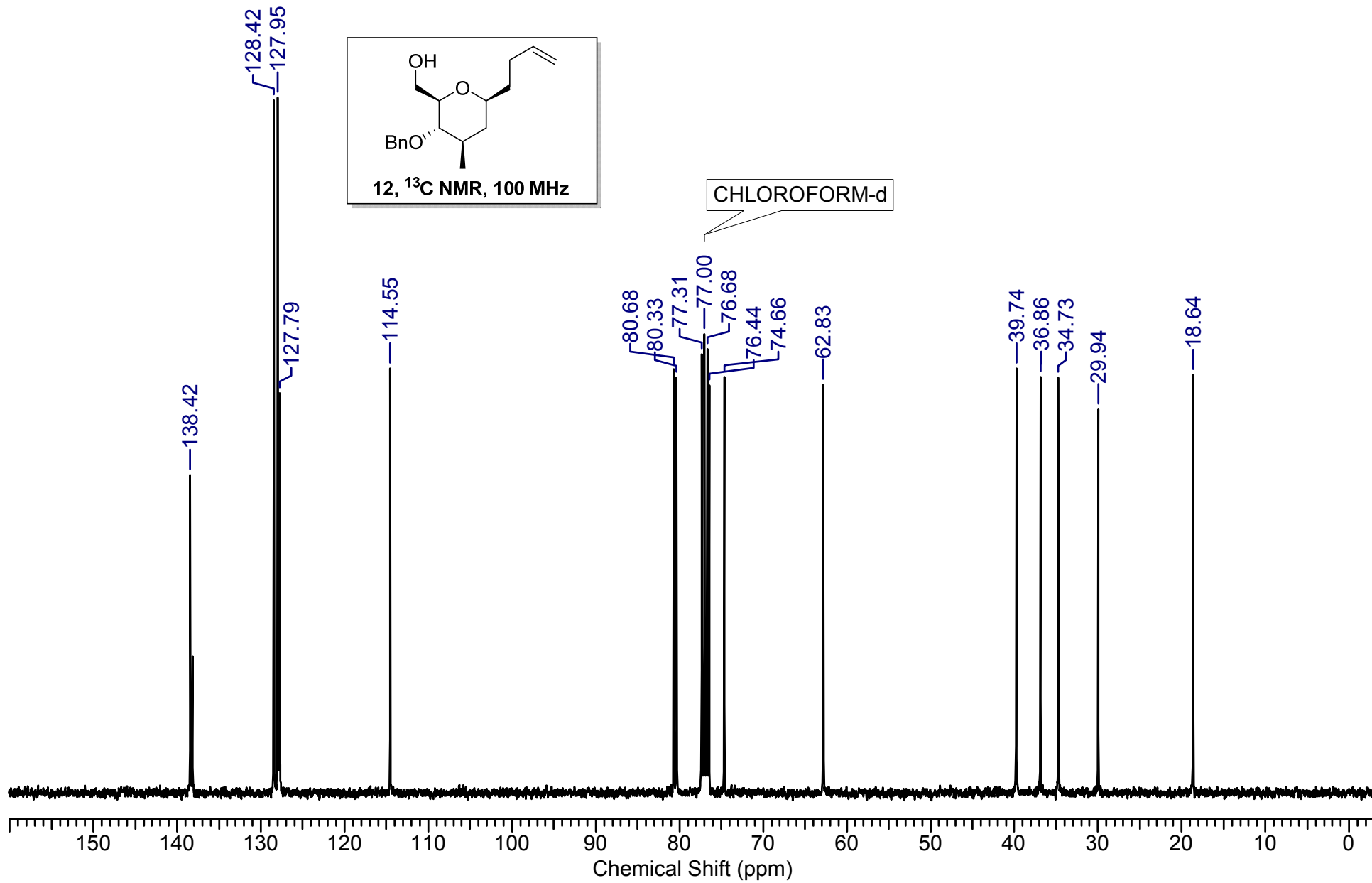


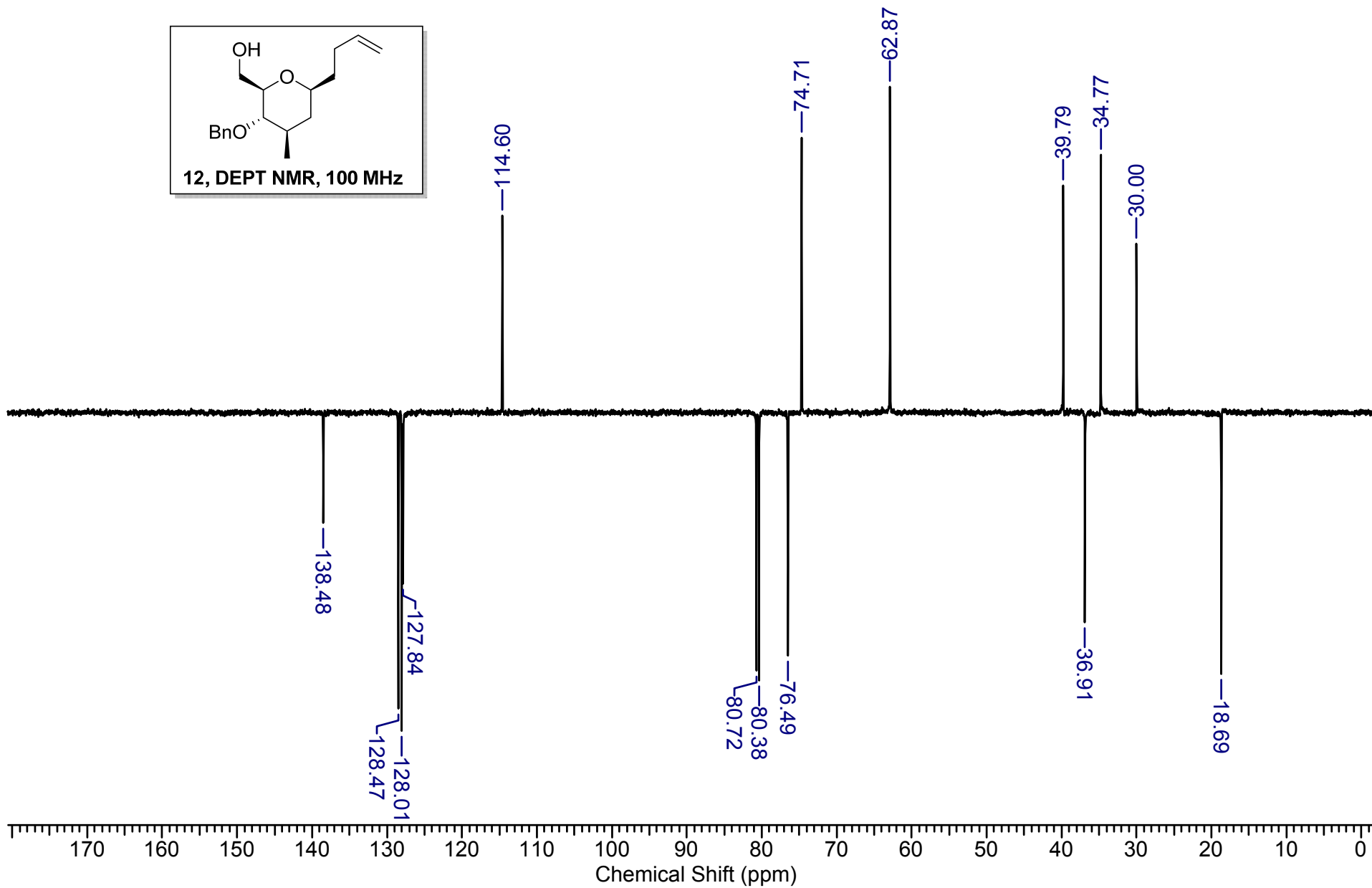
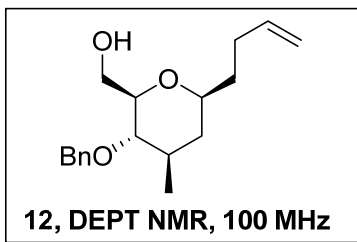


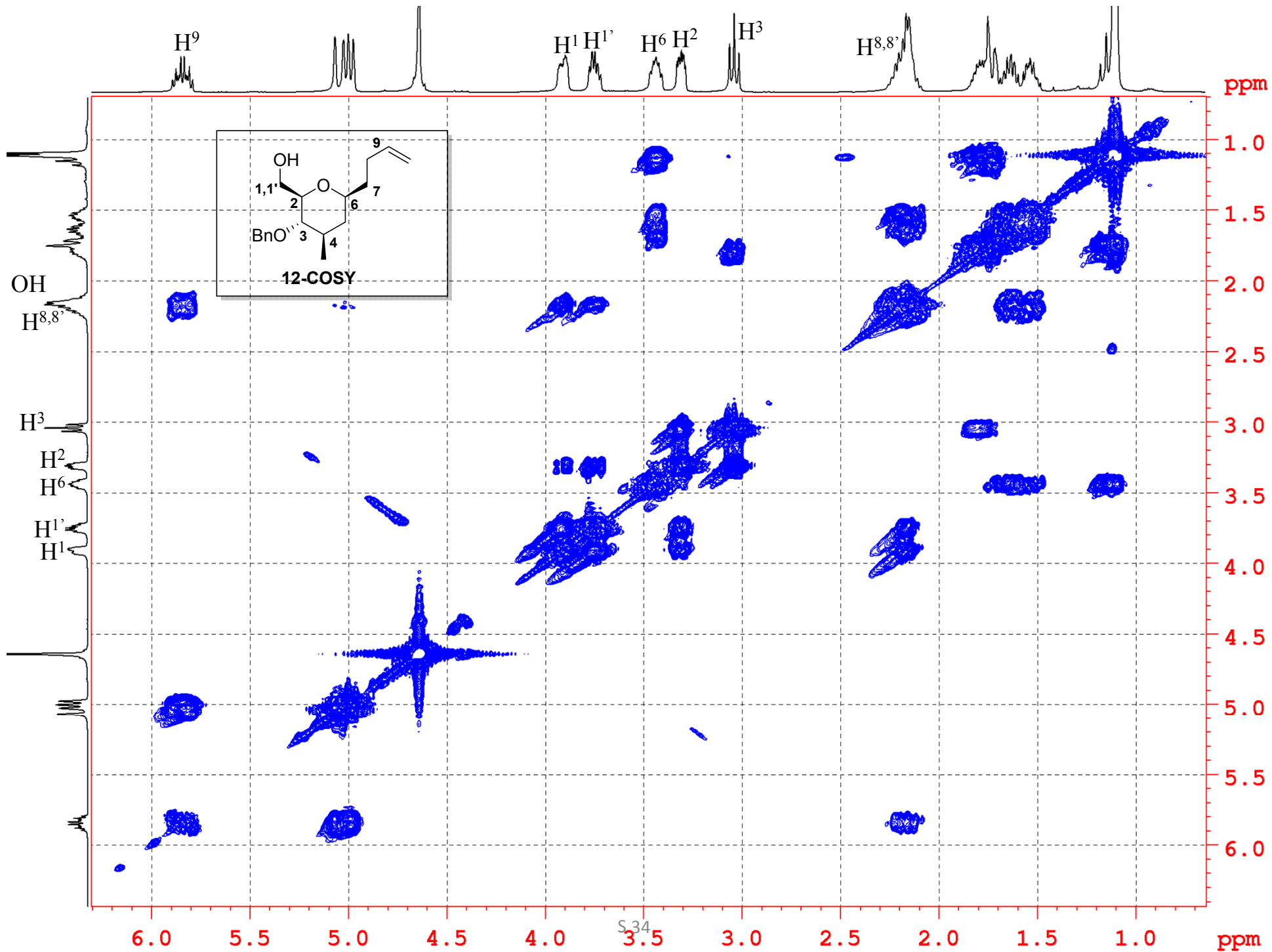


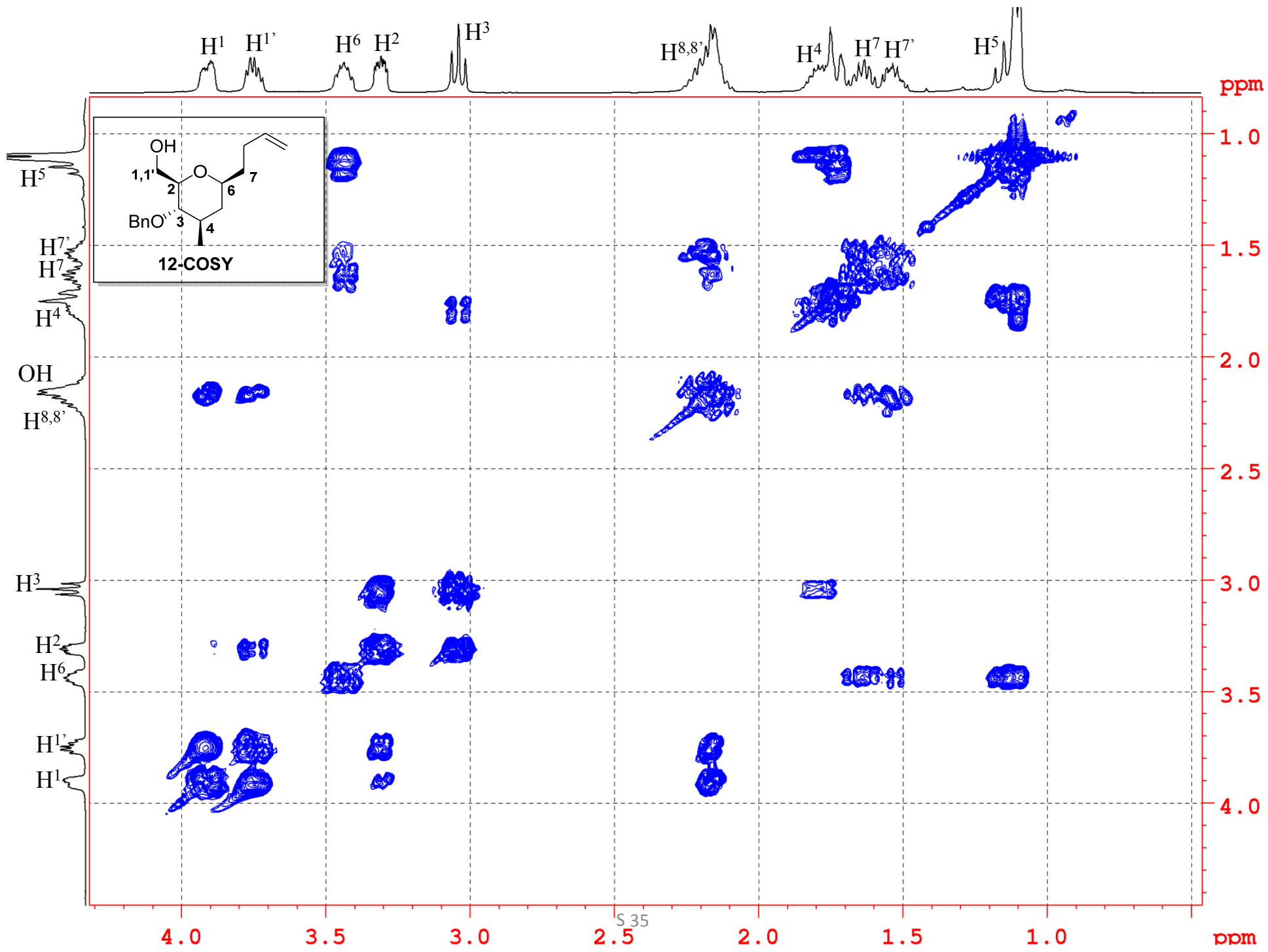


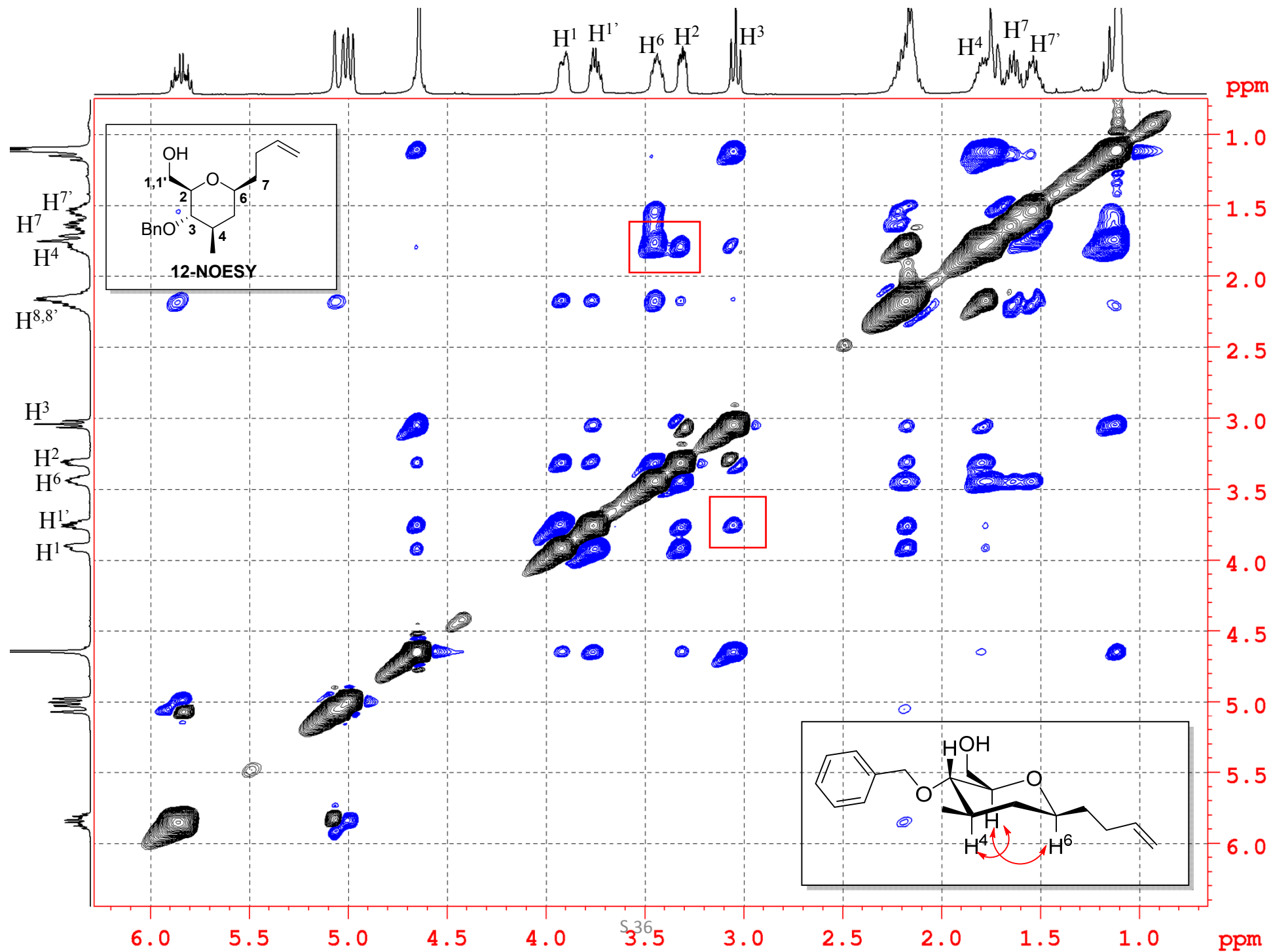


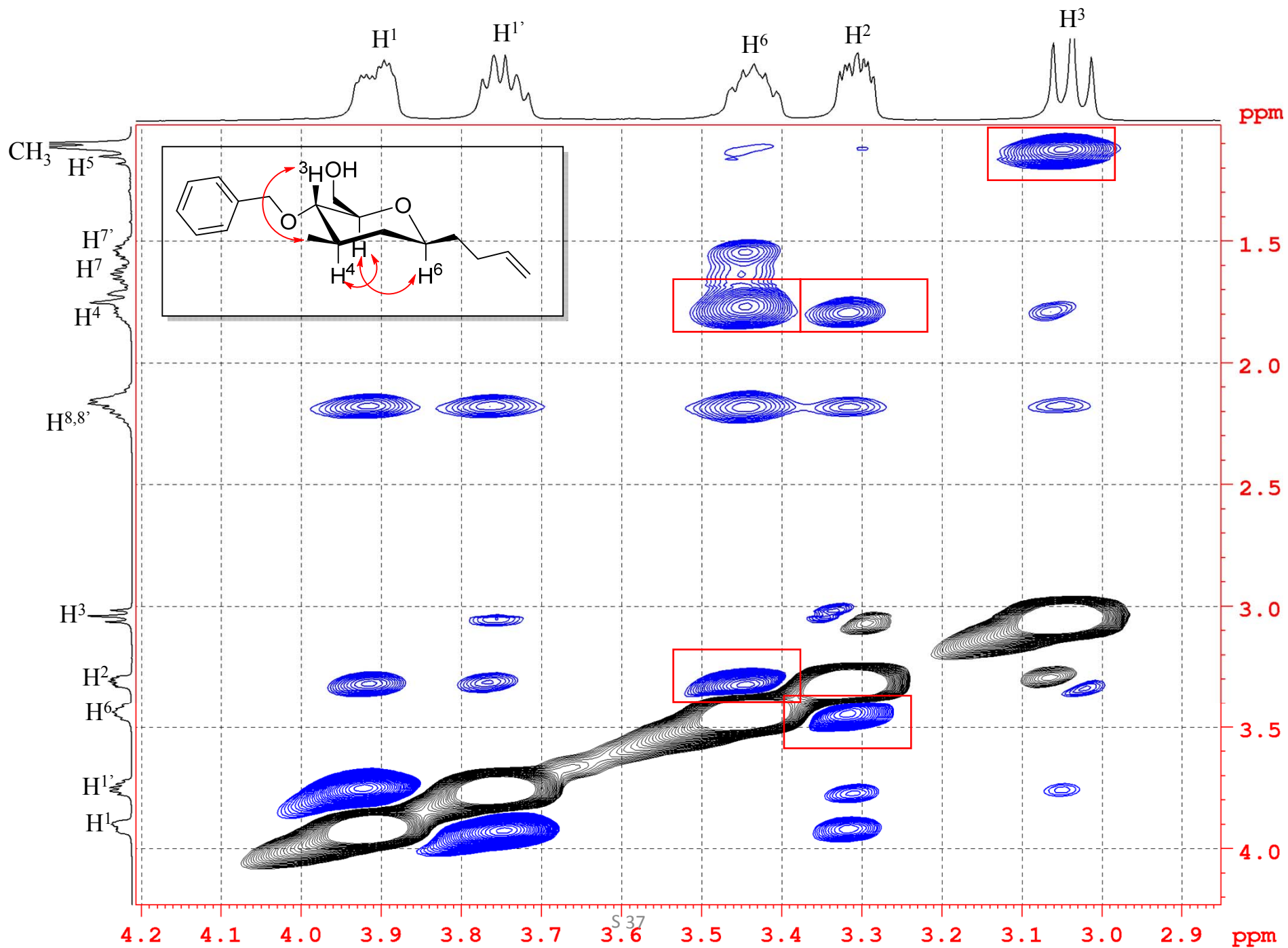


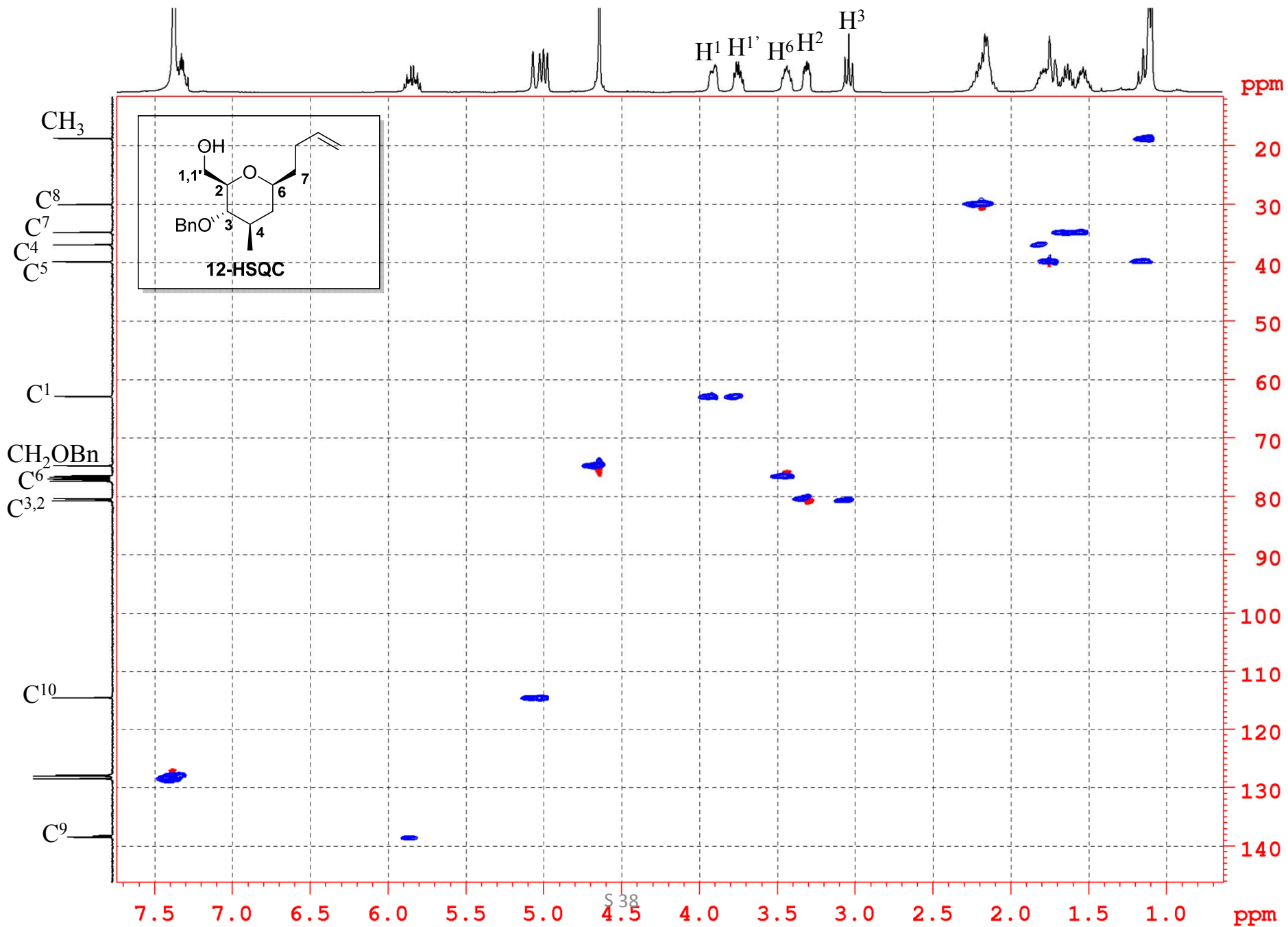


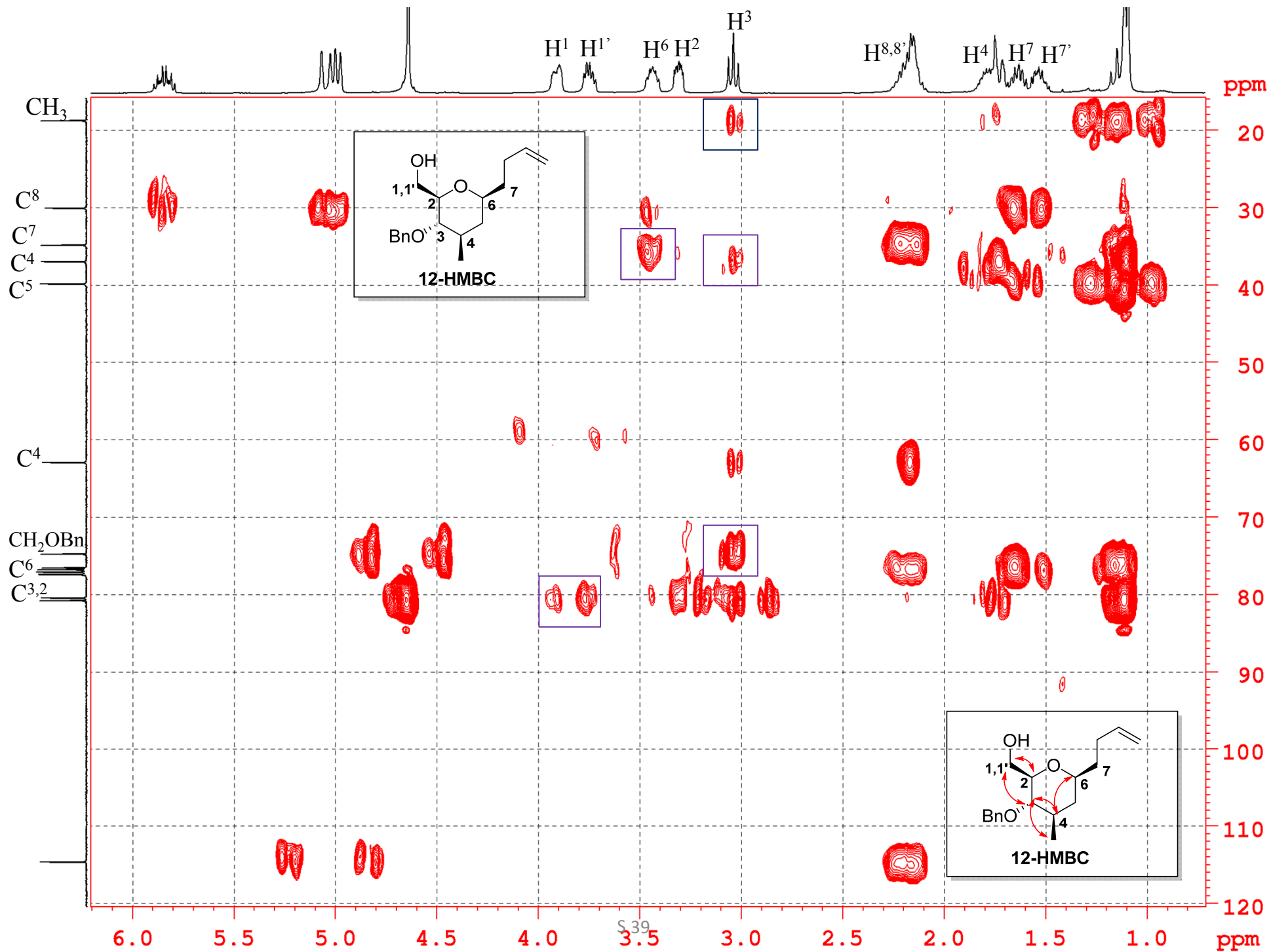




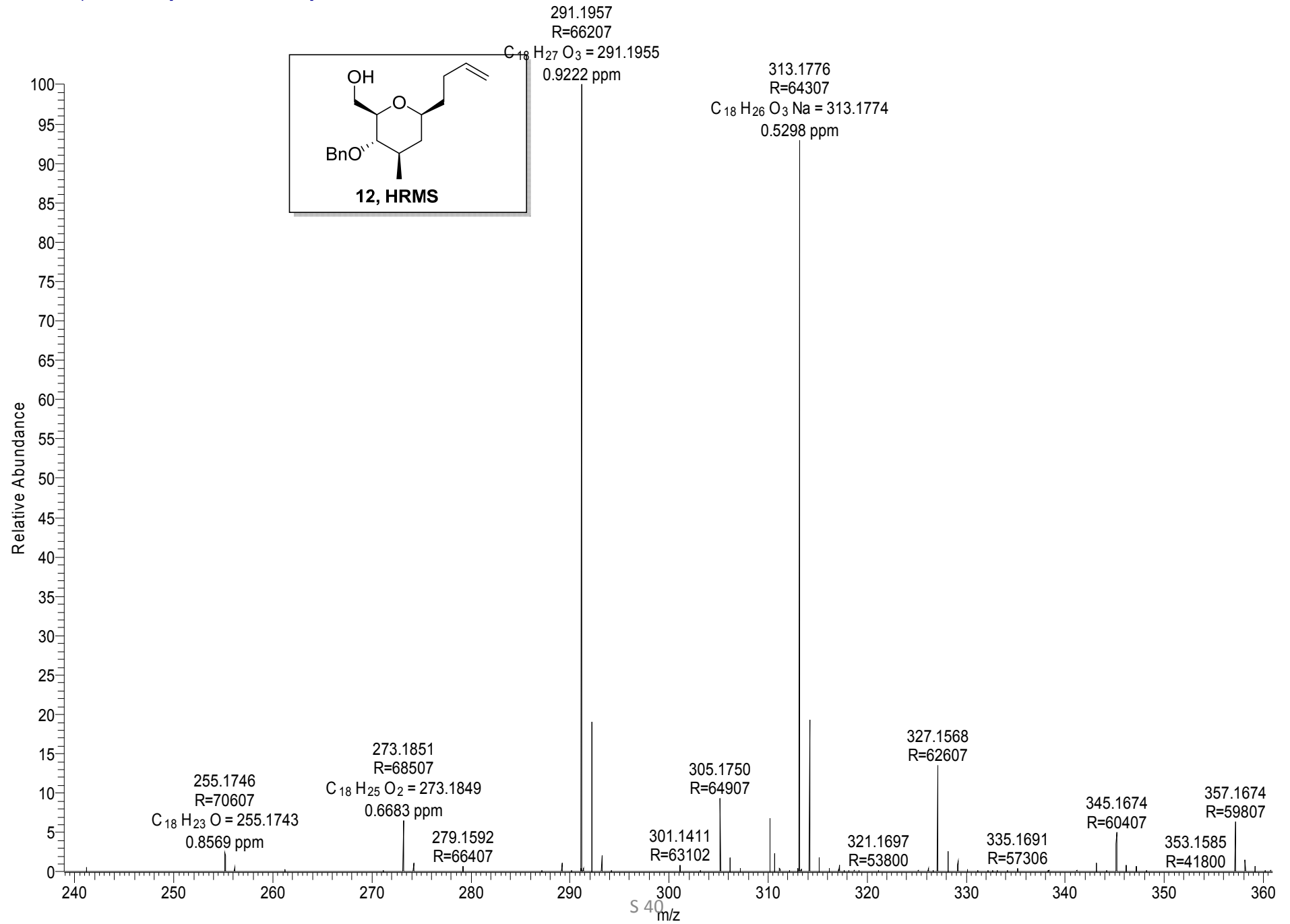
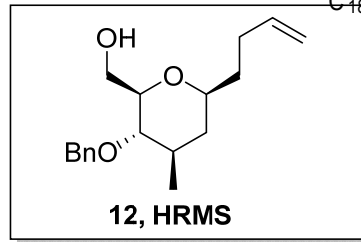


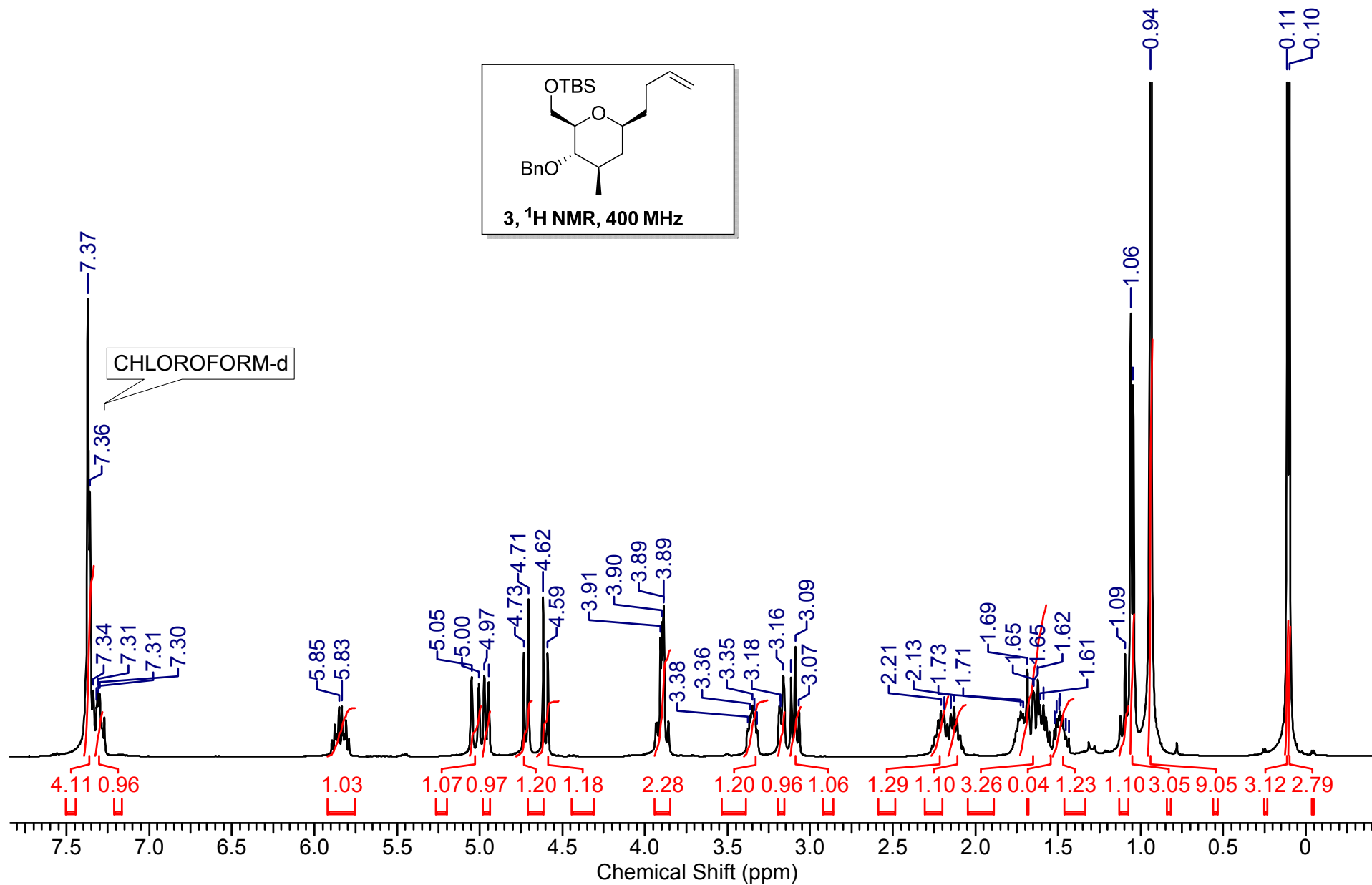
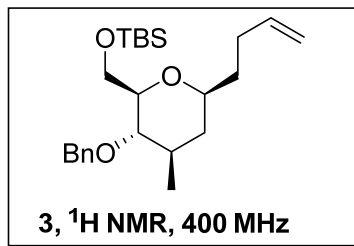


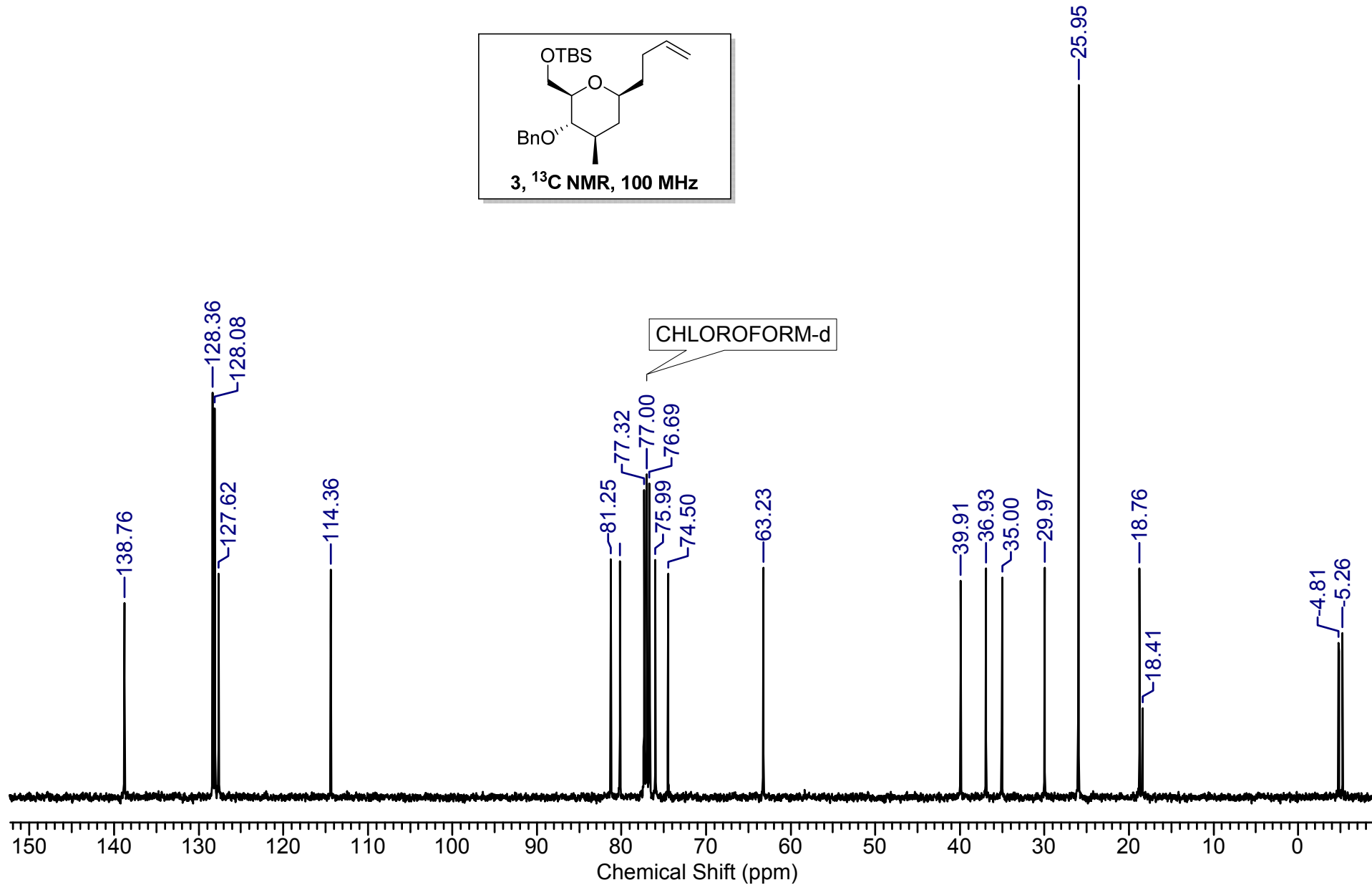
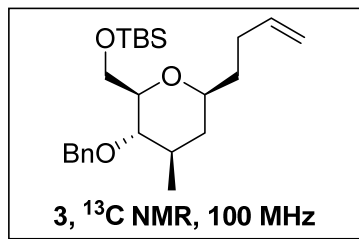


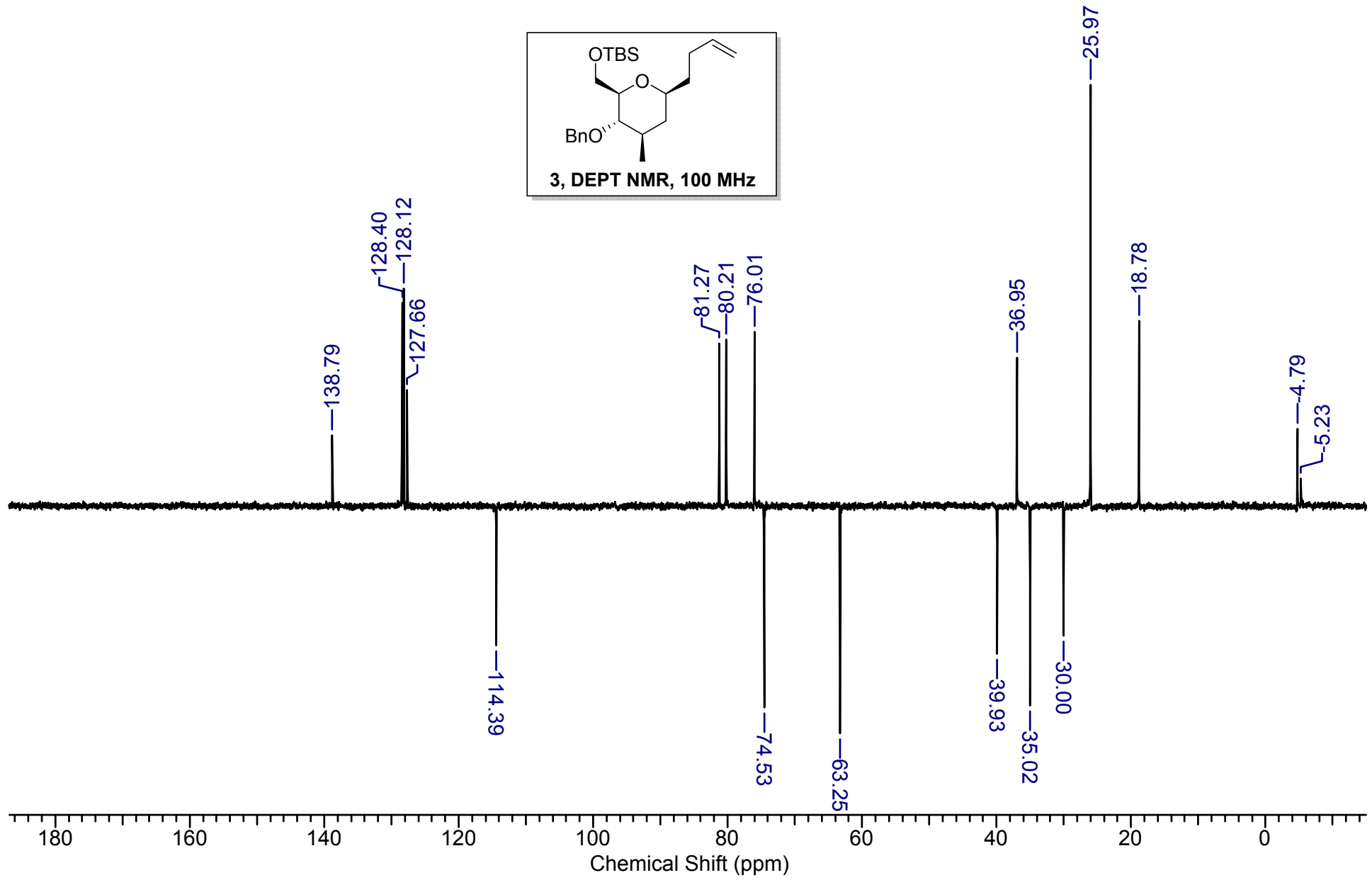
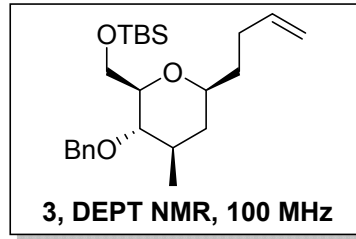


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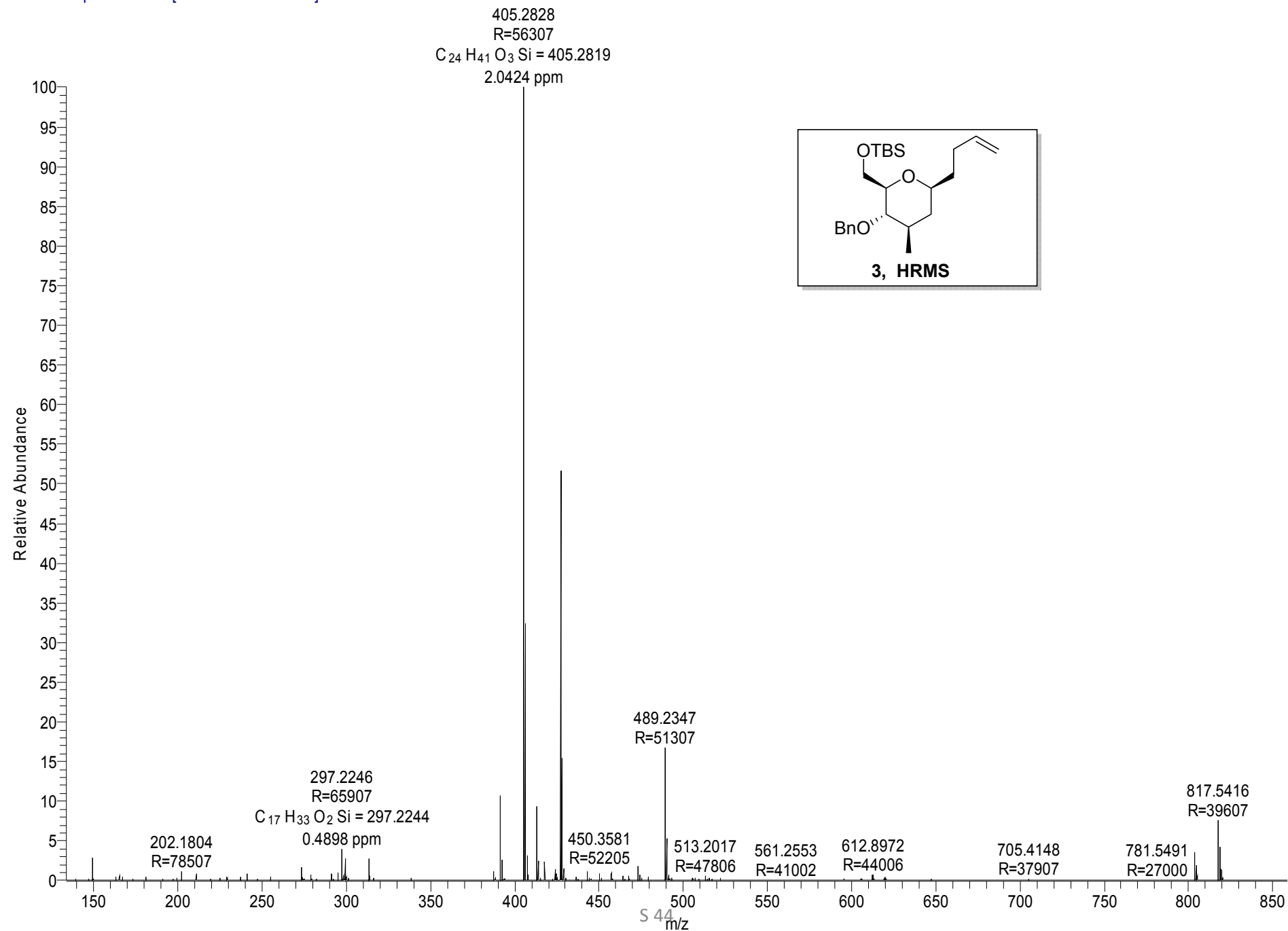


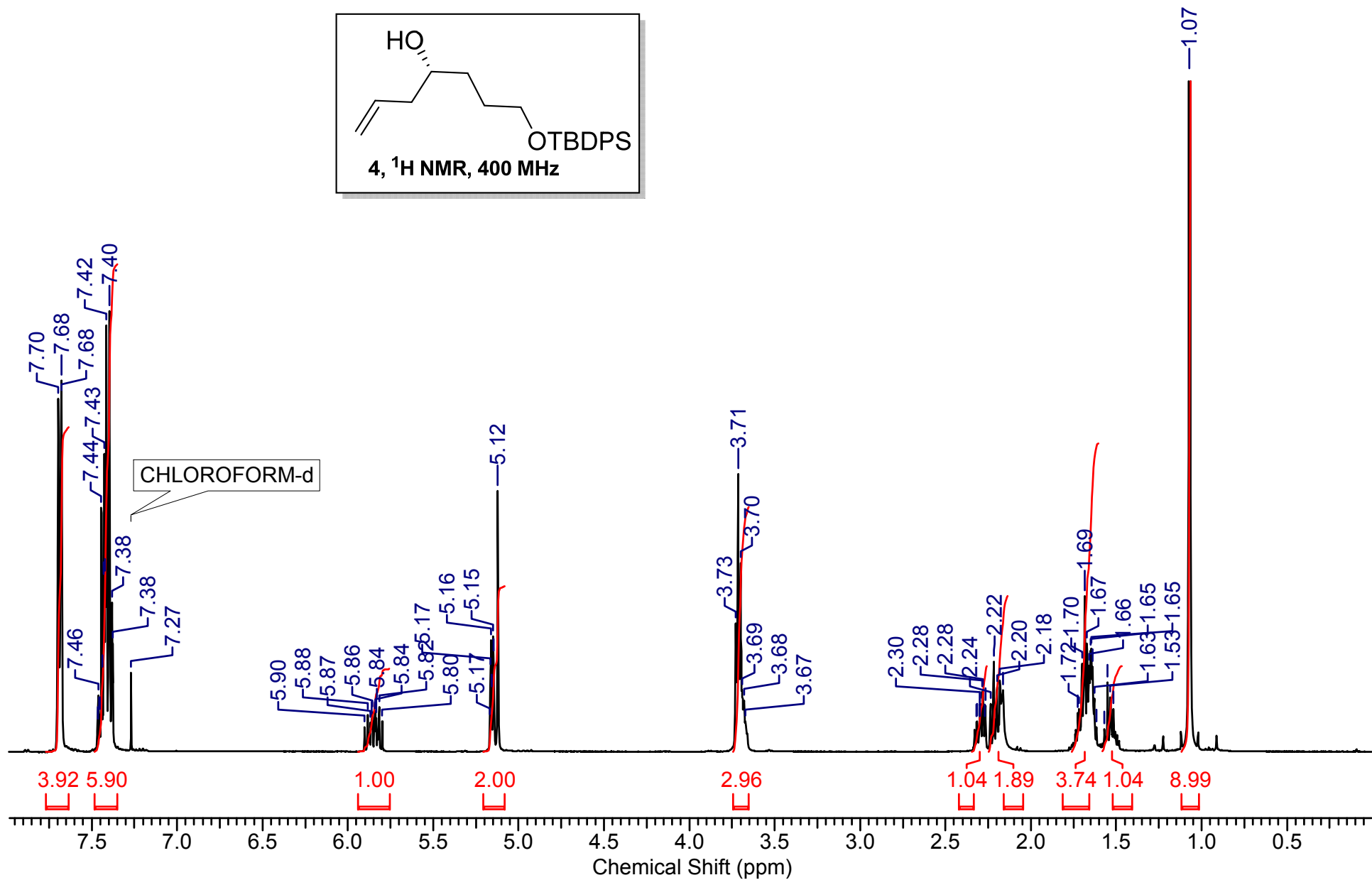
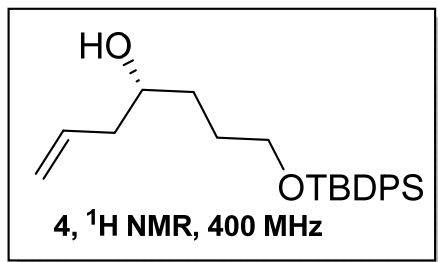


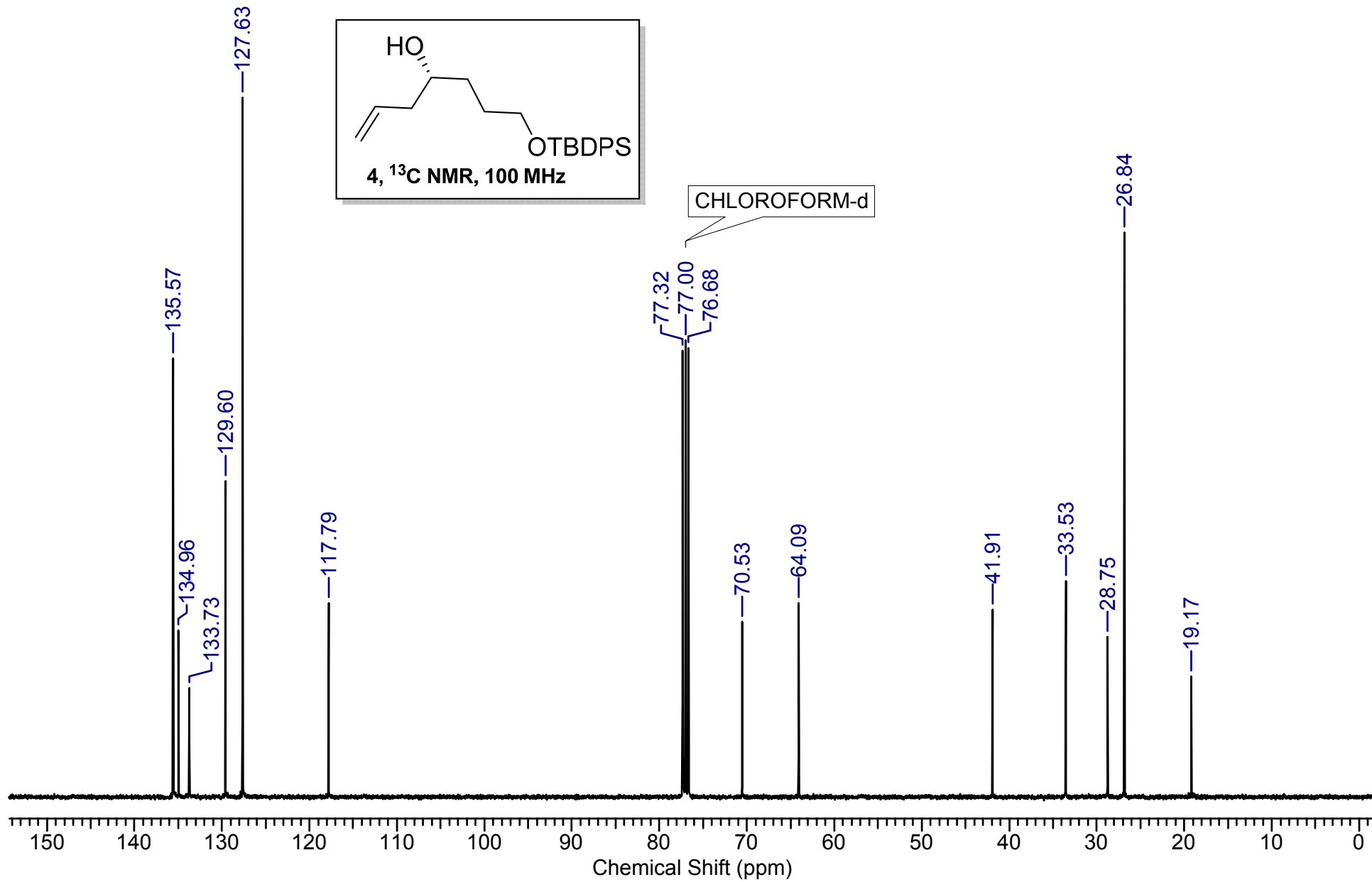


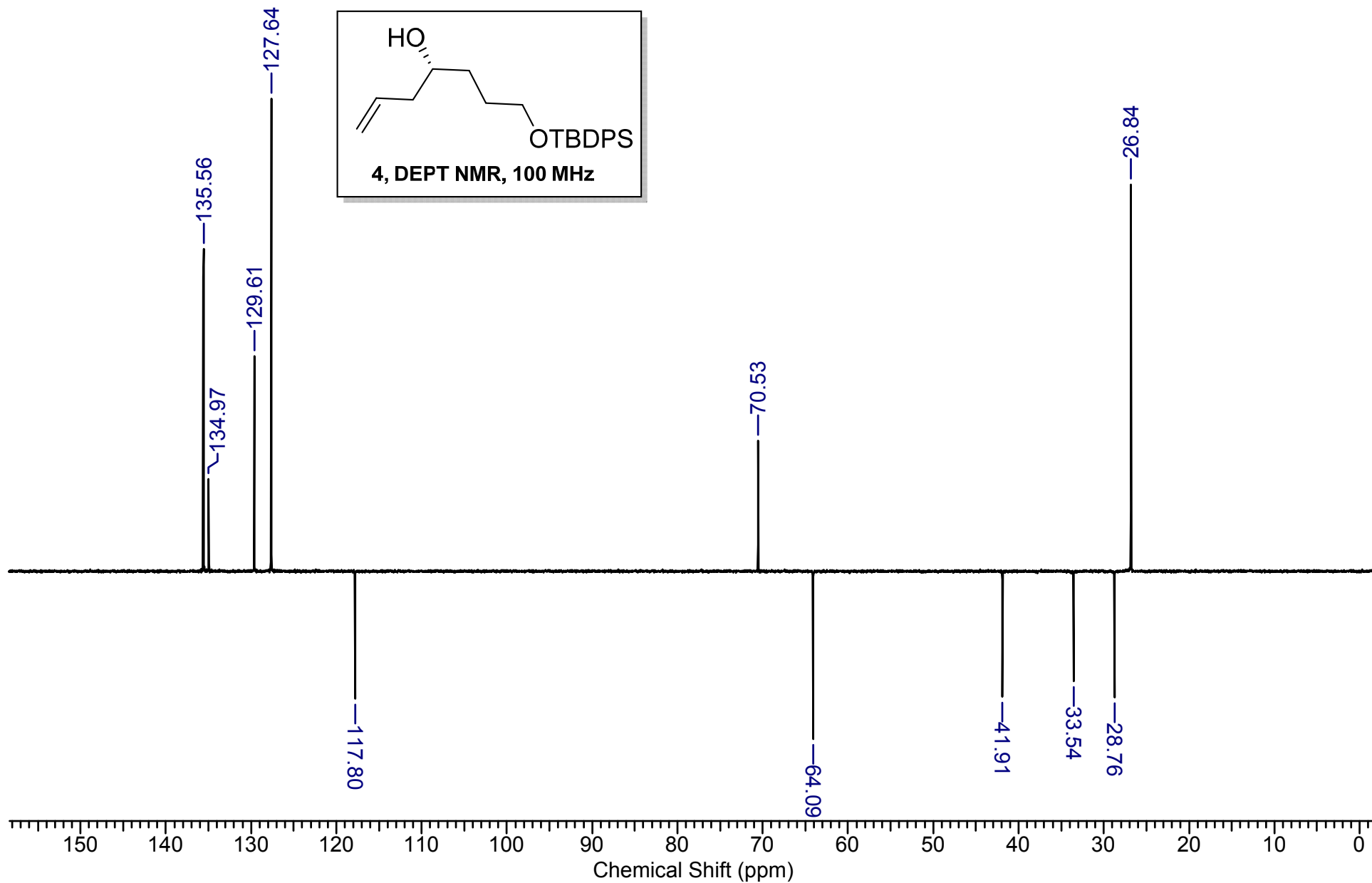
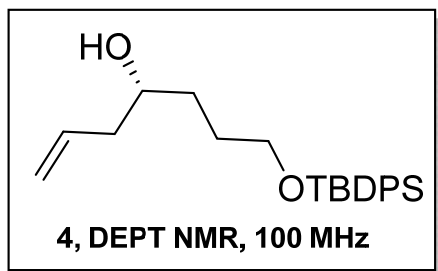


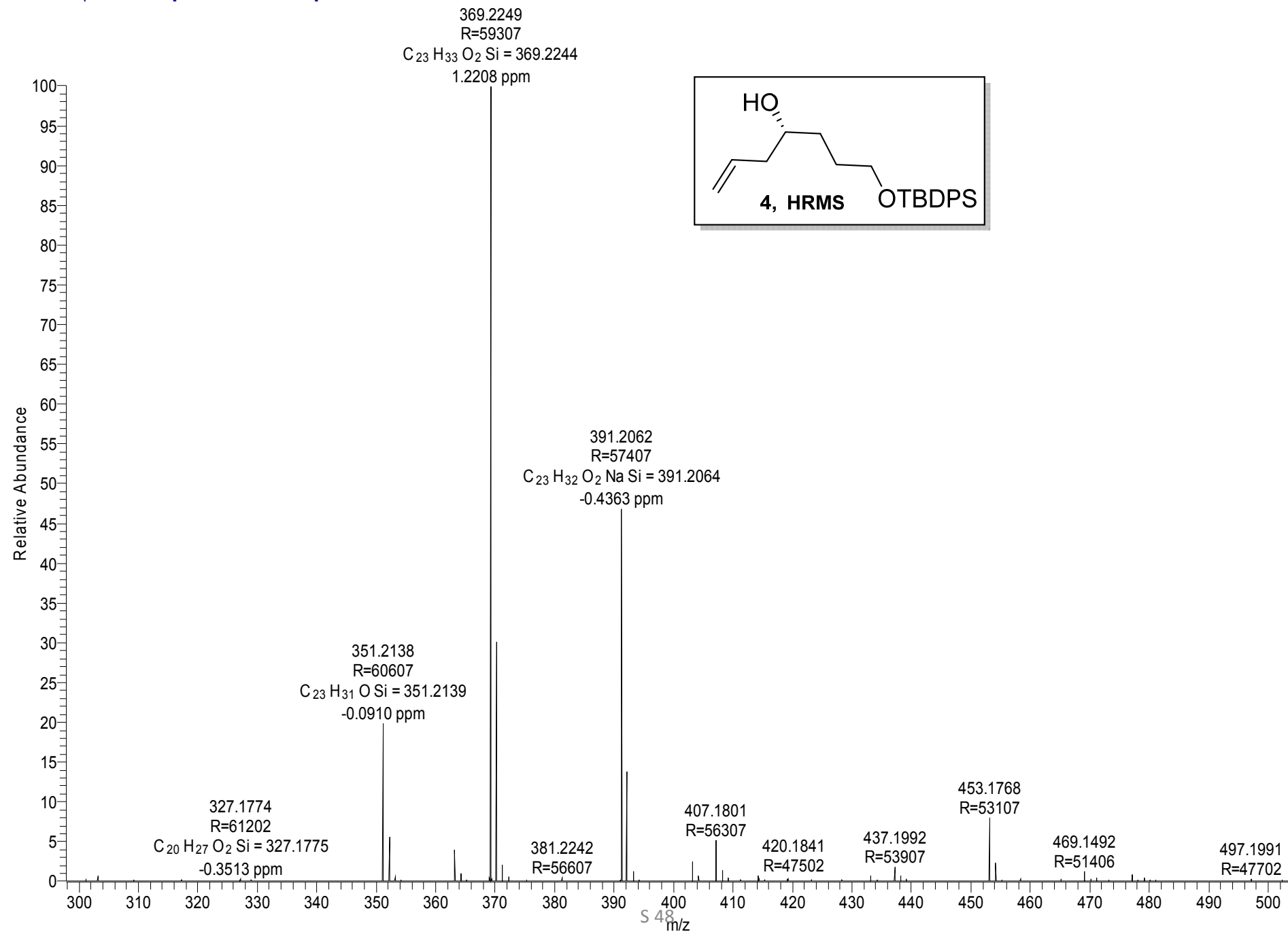
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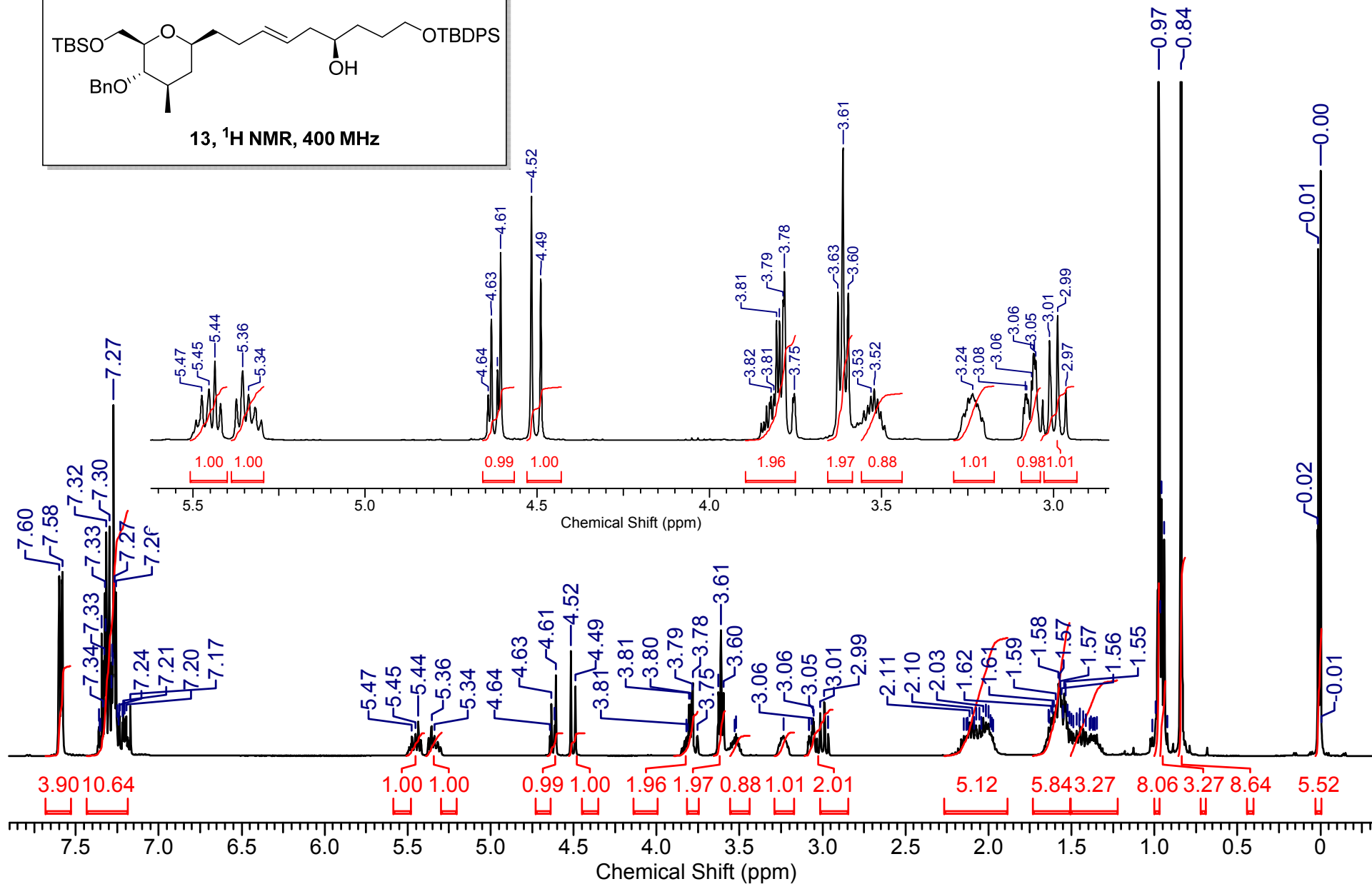
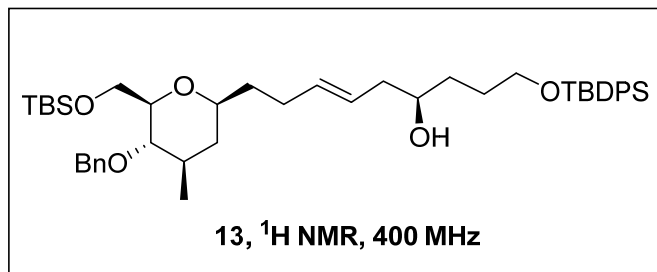


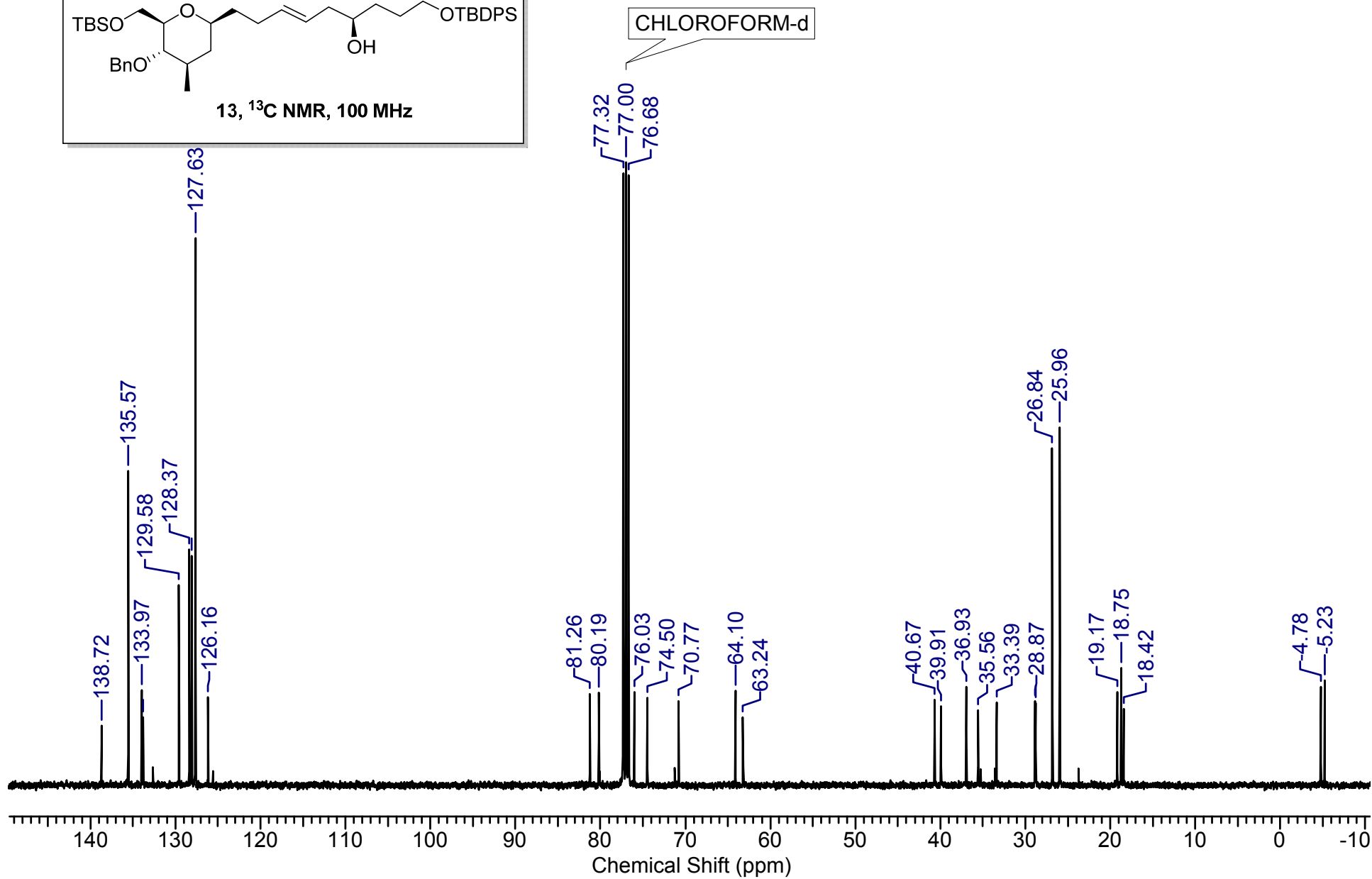
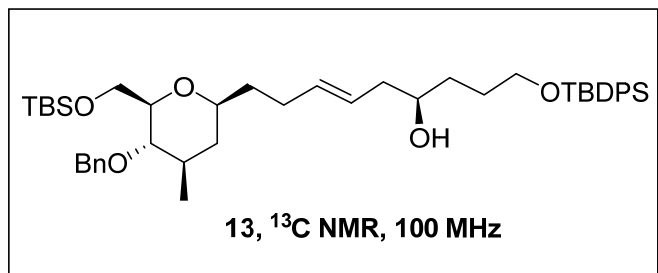


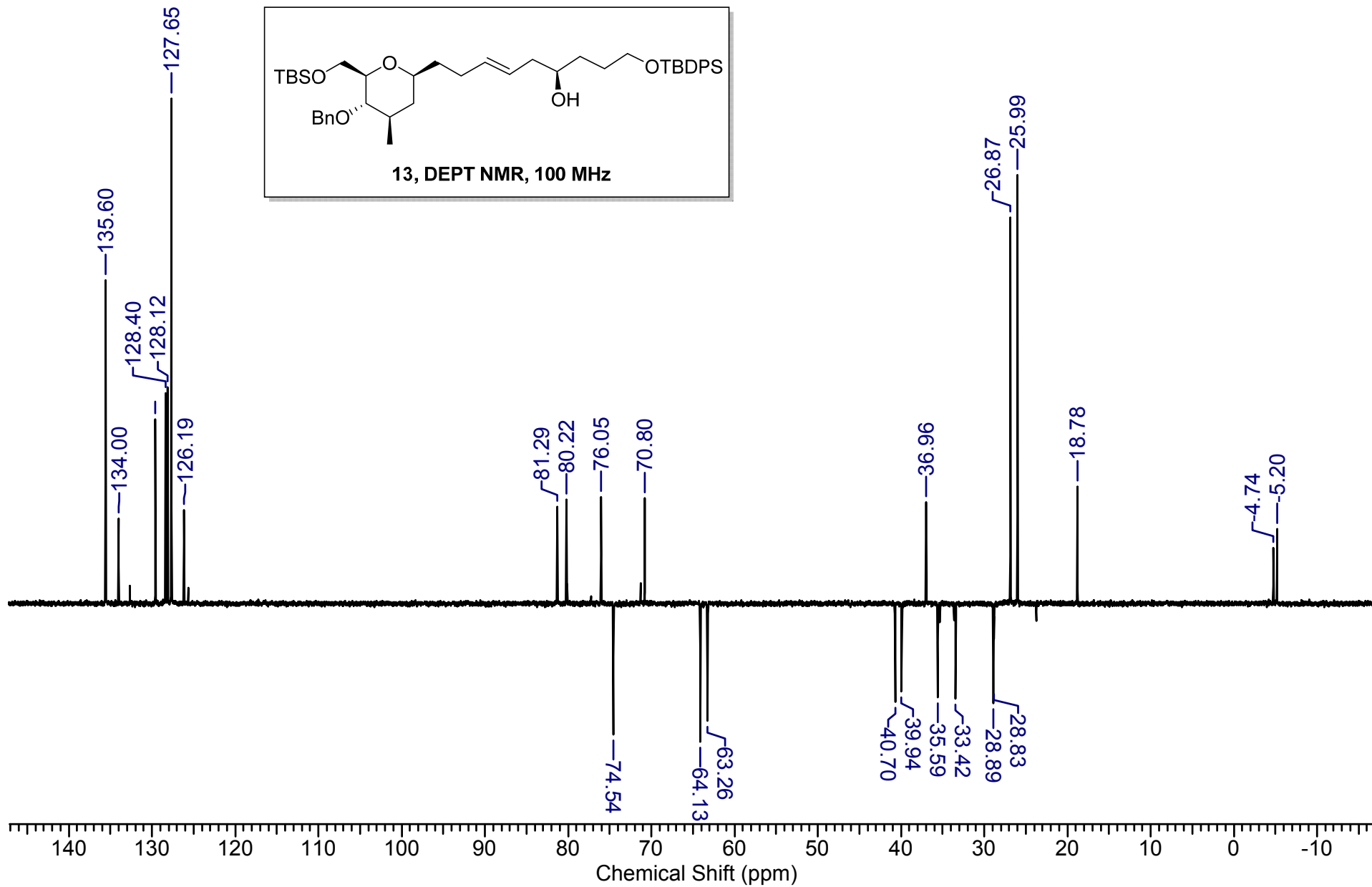
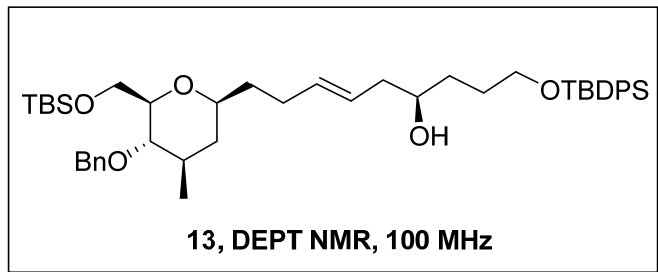




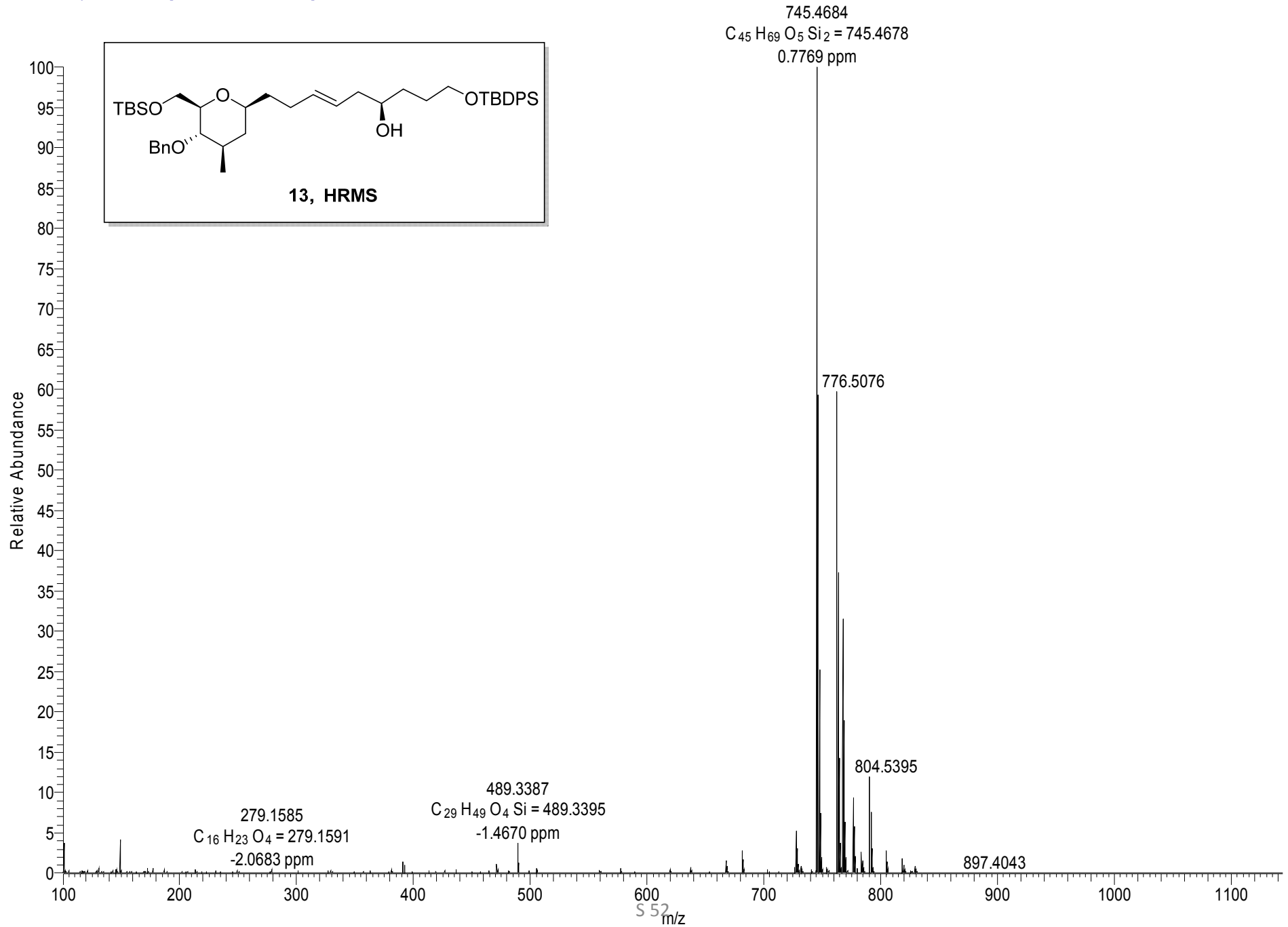
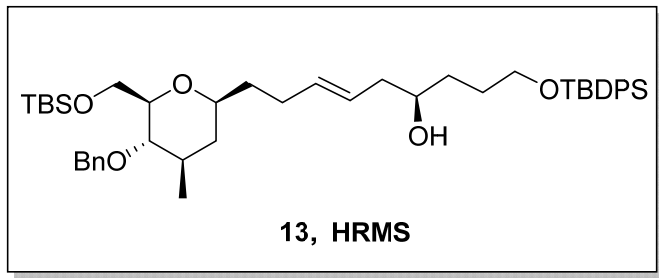


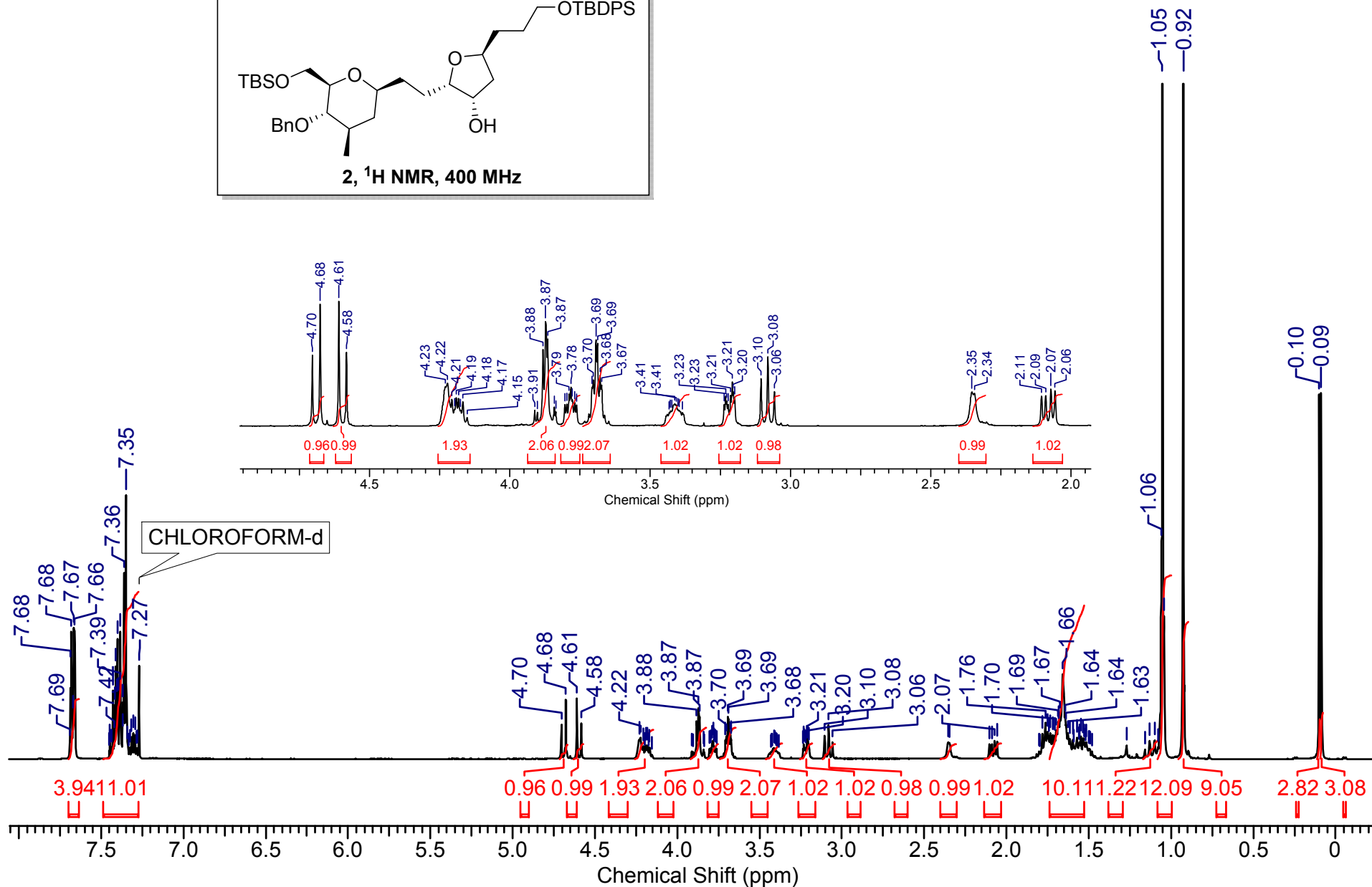
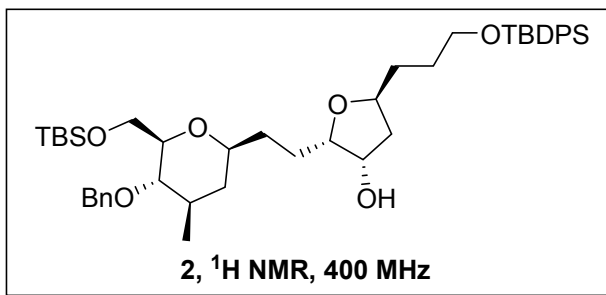


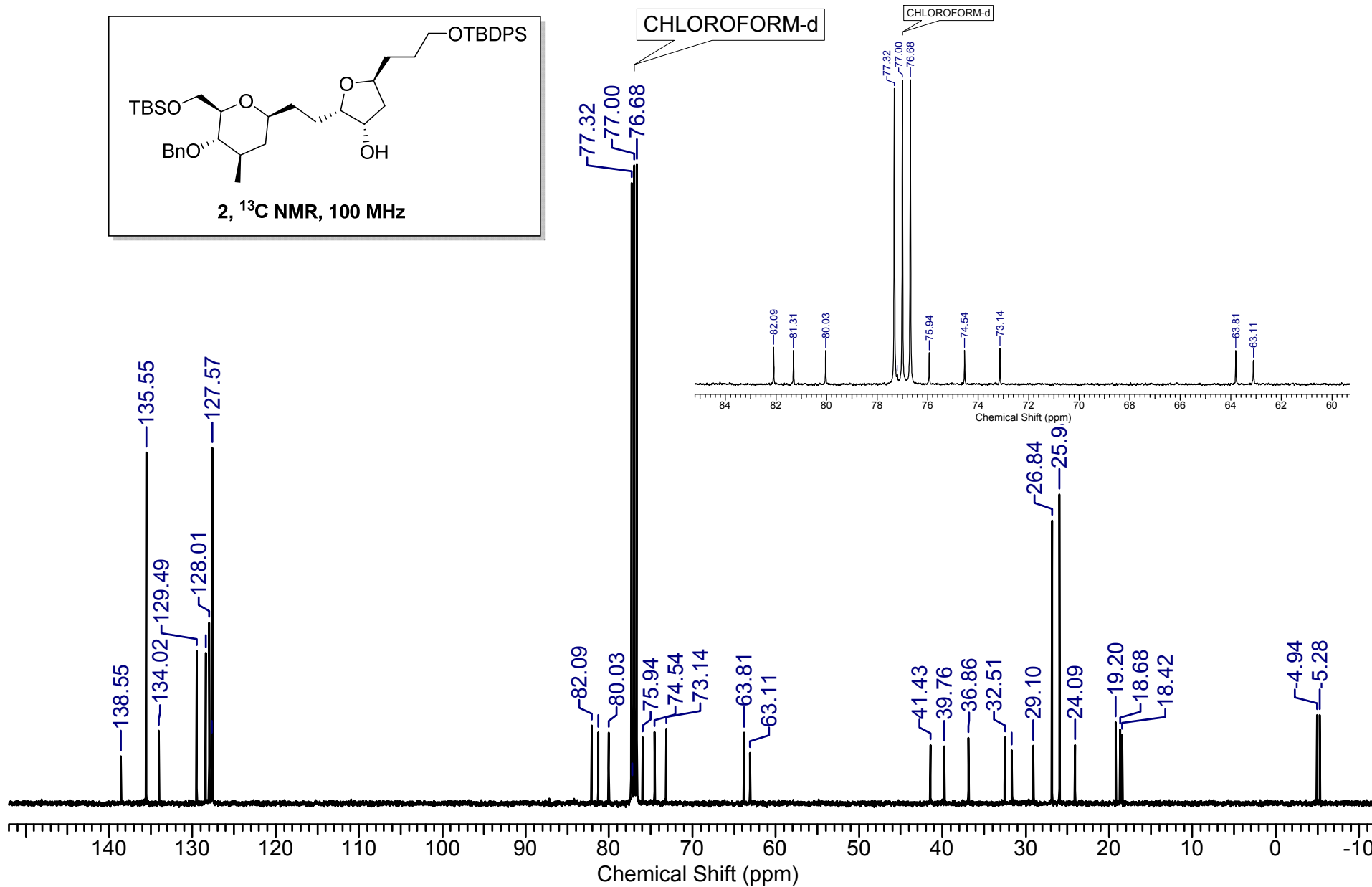
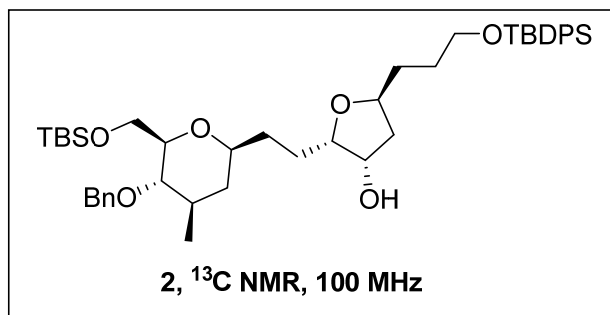


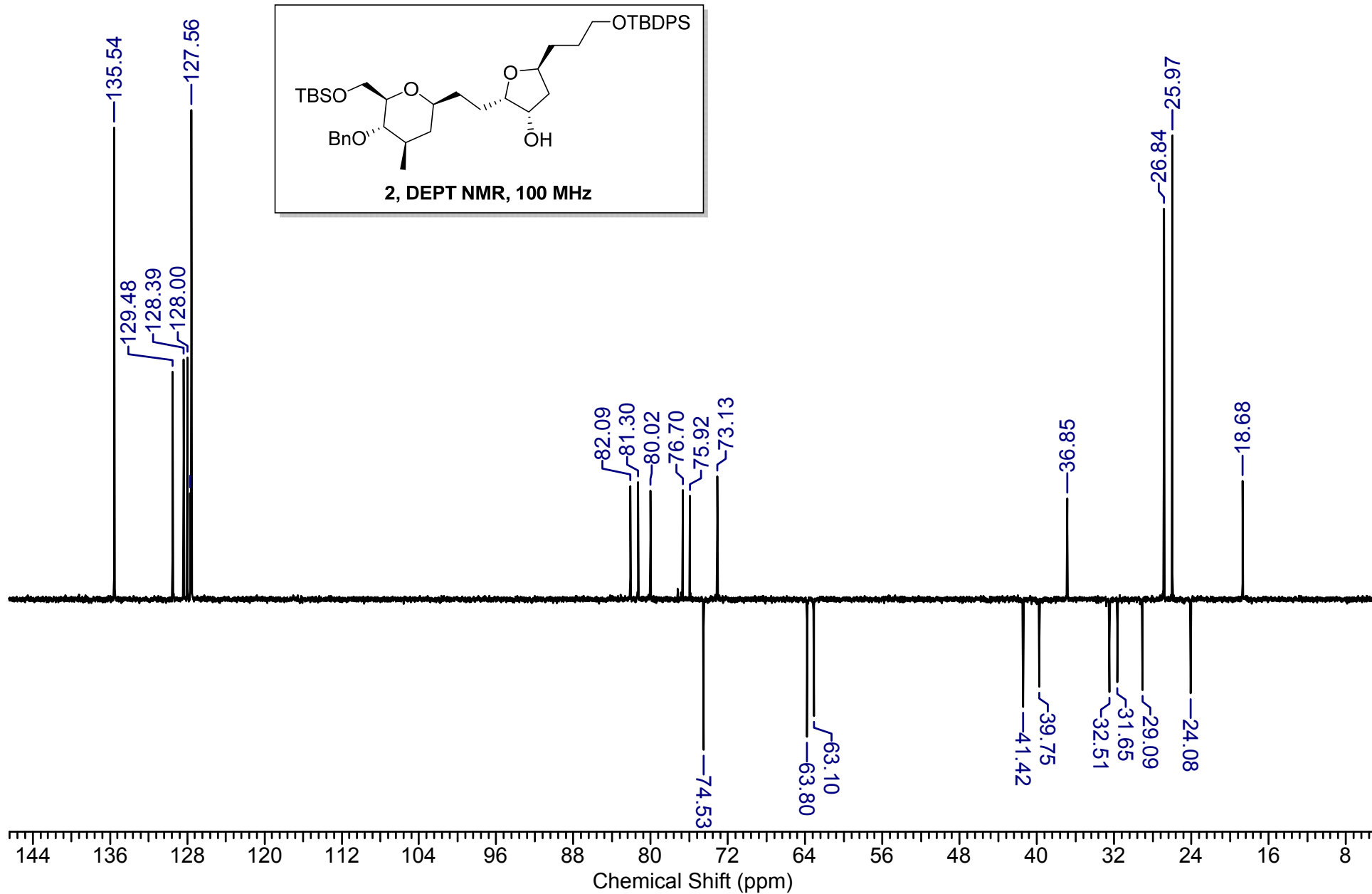


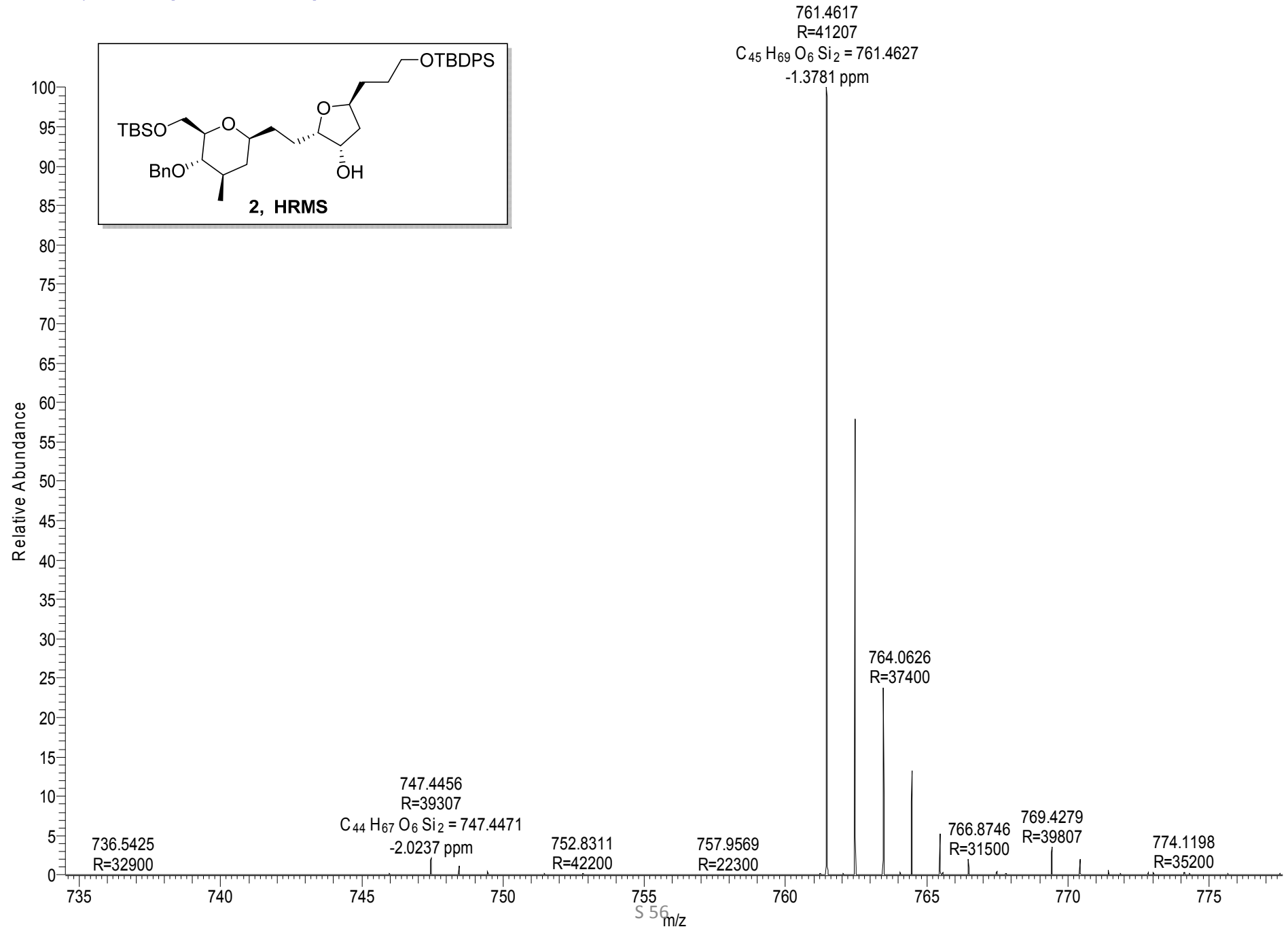
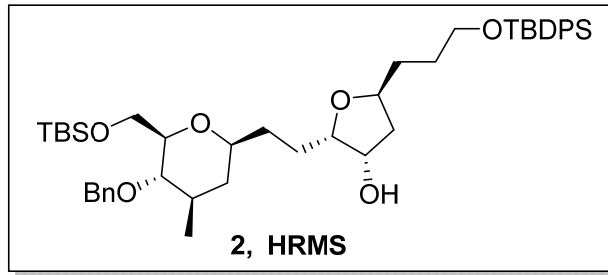
SS-618_190919134133 #1060 RT: 5.85 AV: 1 NL: 1.94E8
T: FTMS + p ESI Full ms [100.0000-1500.0000]

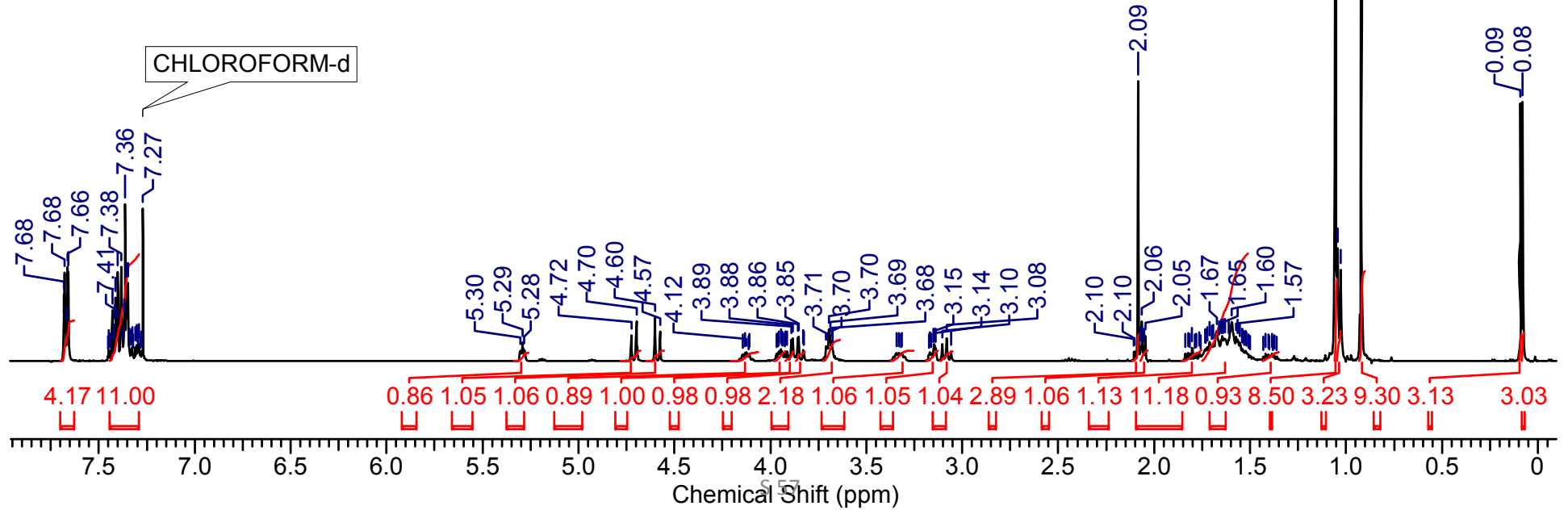
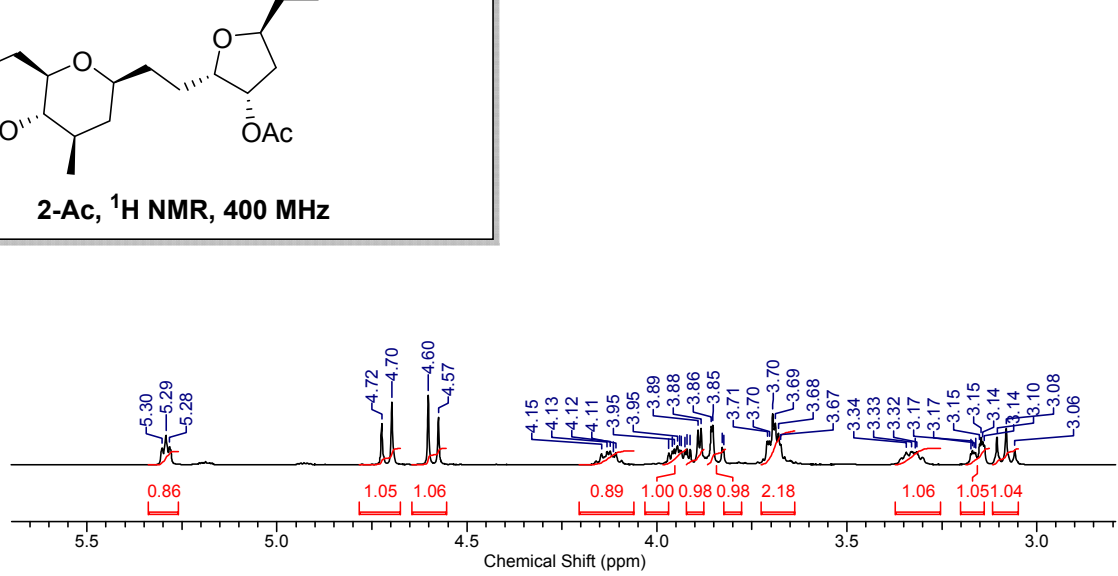
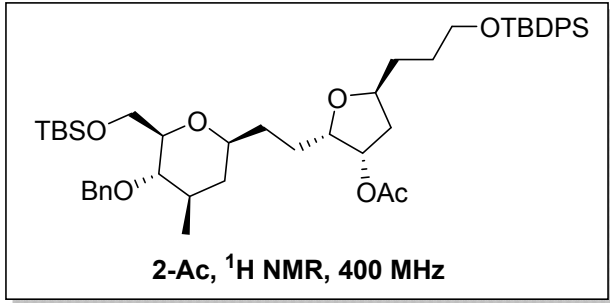


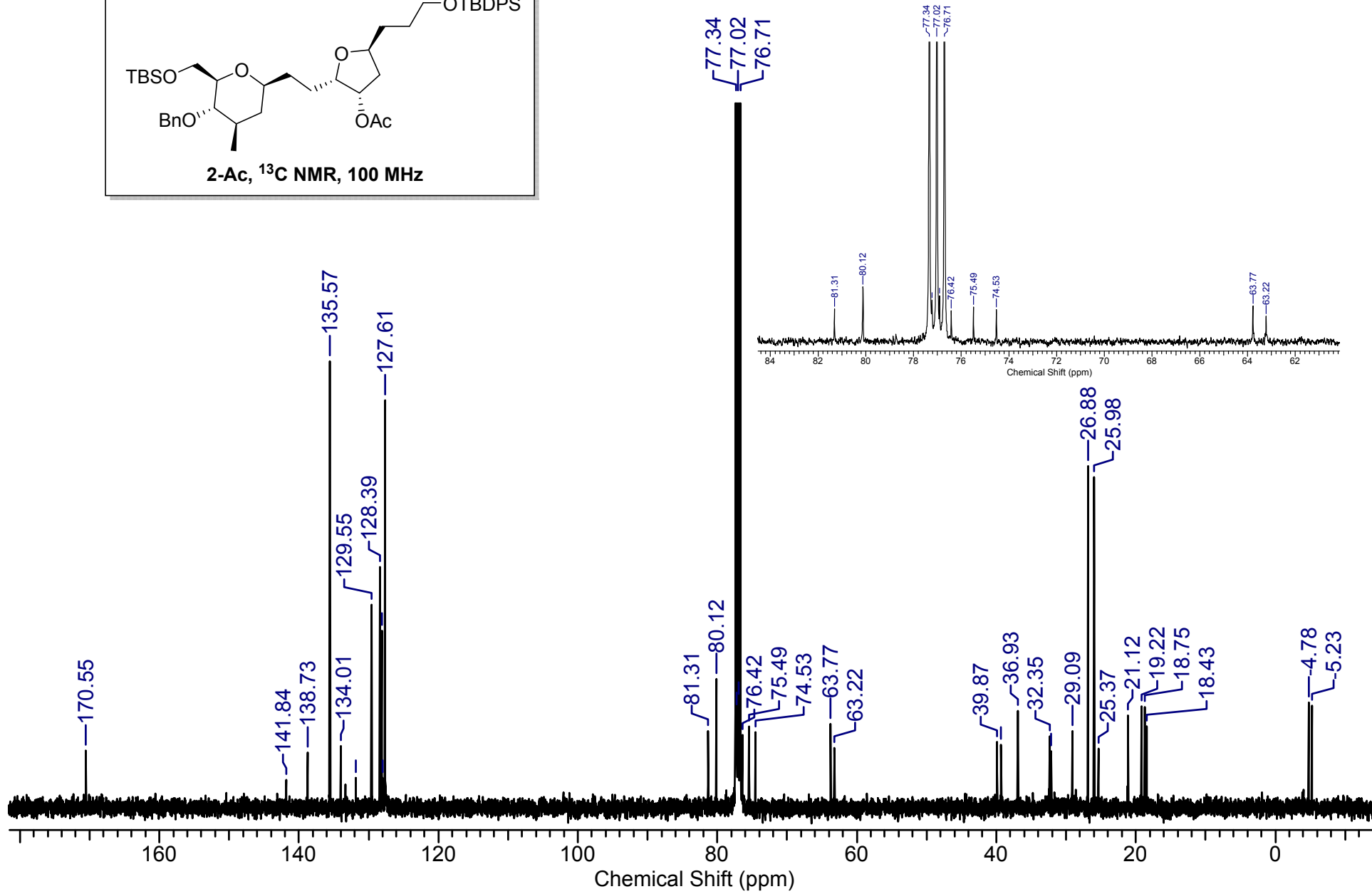
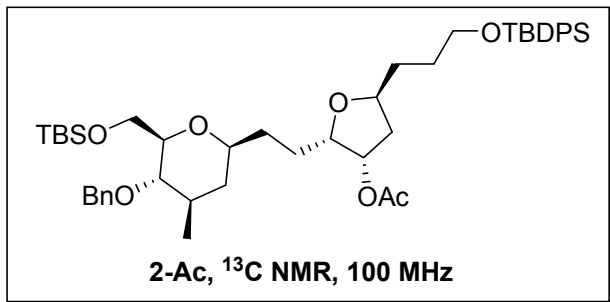


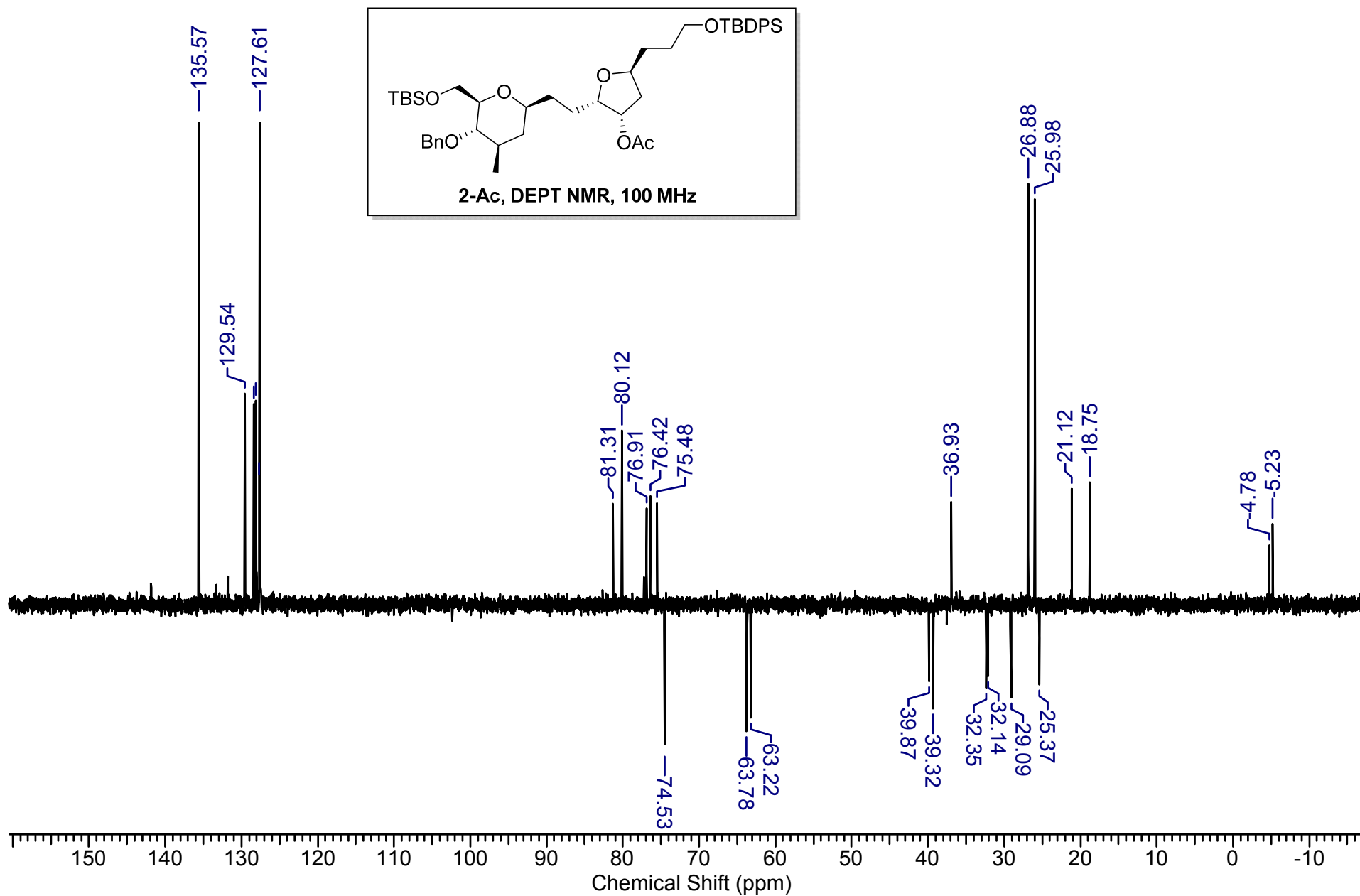


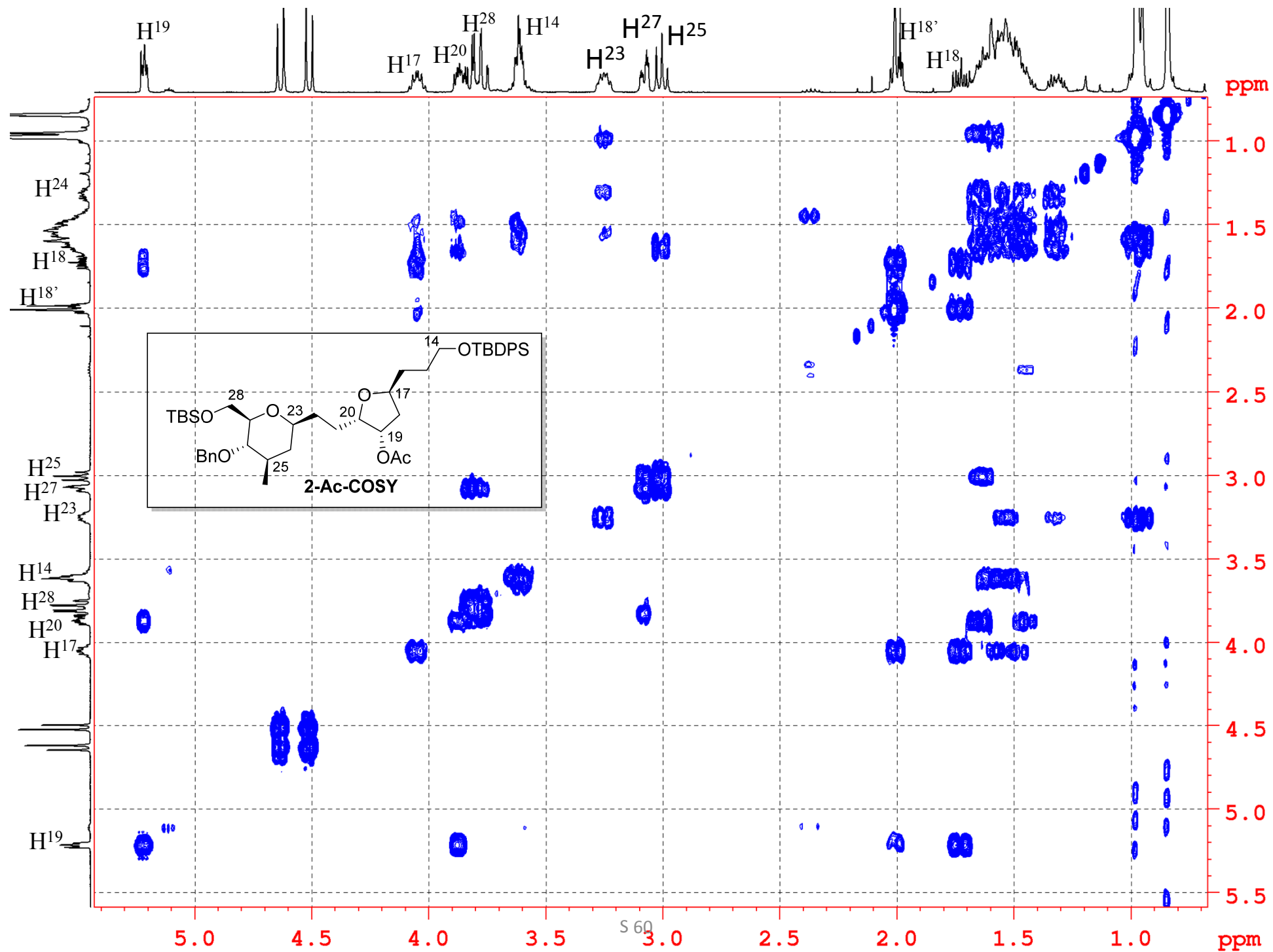


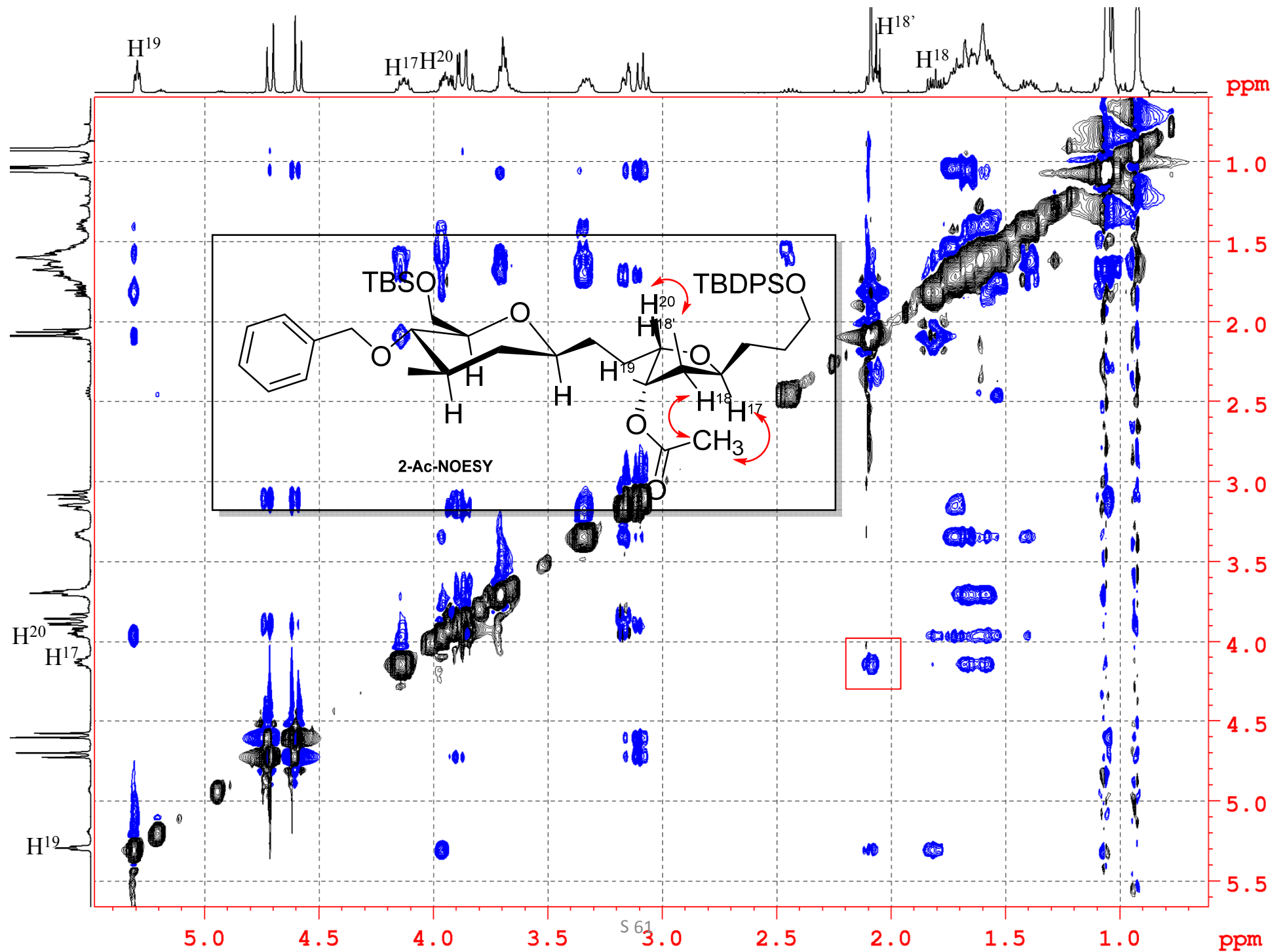


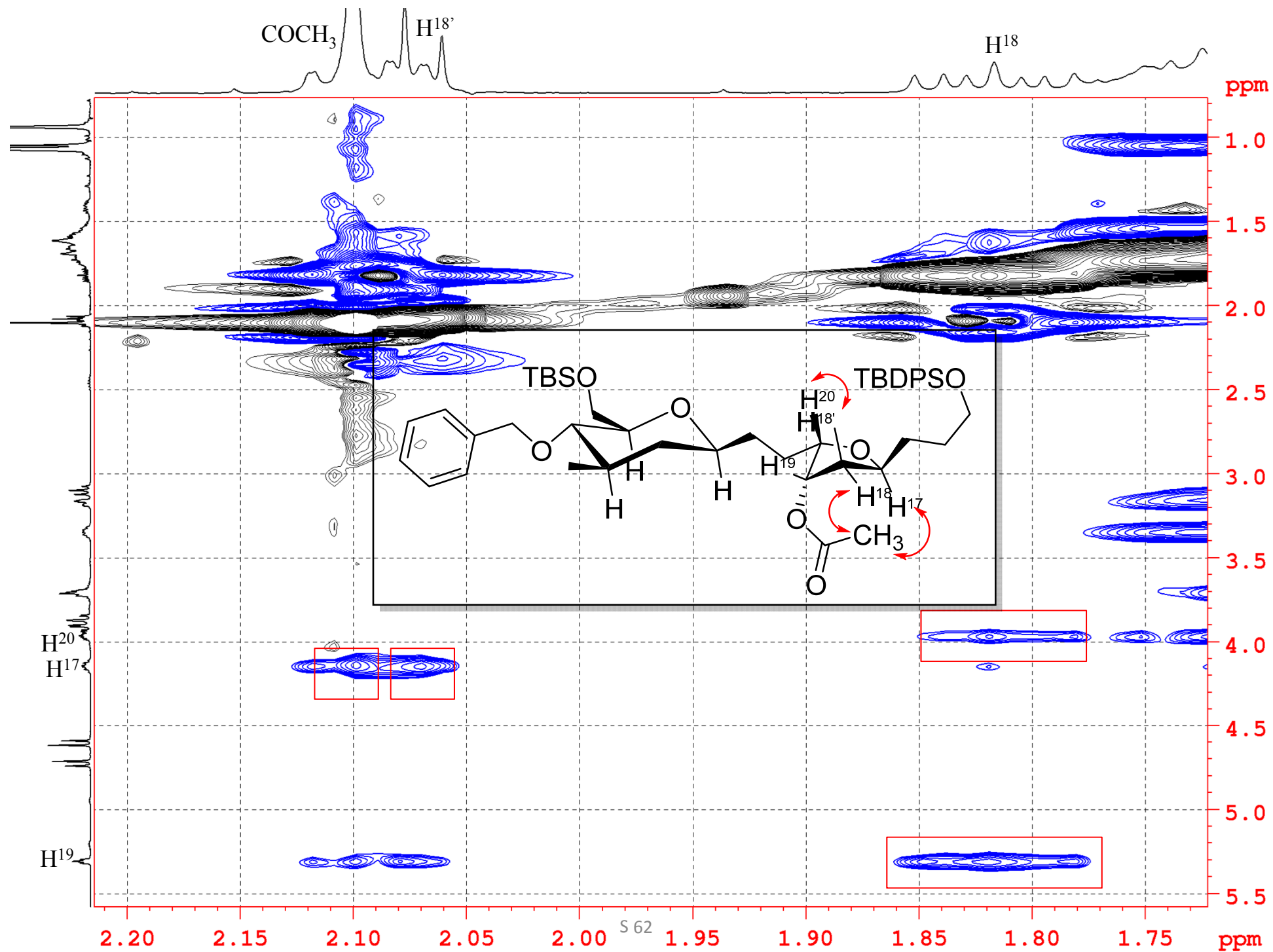


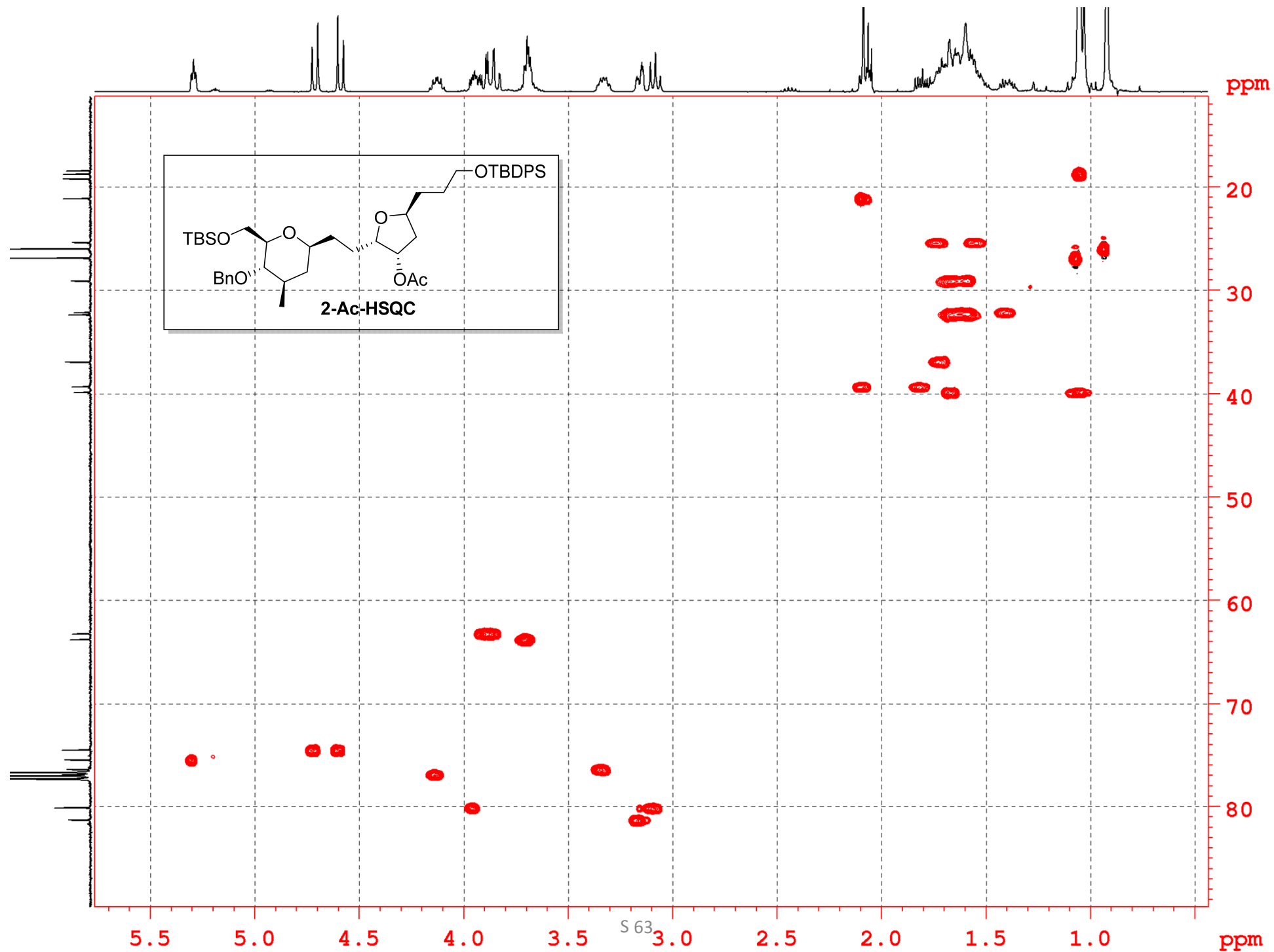


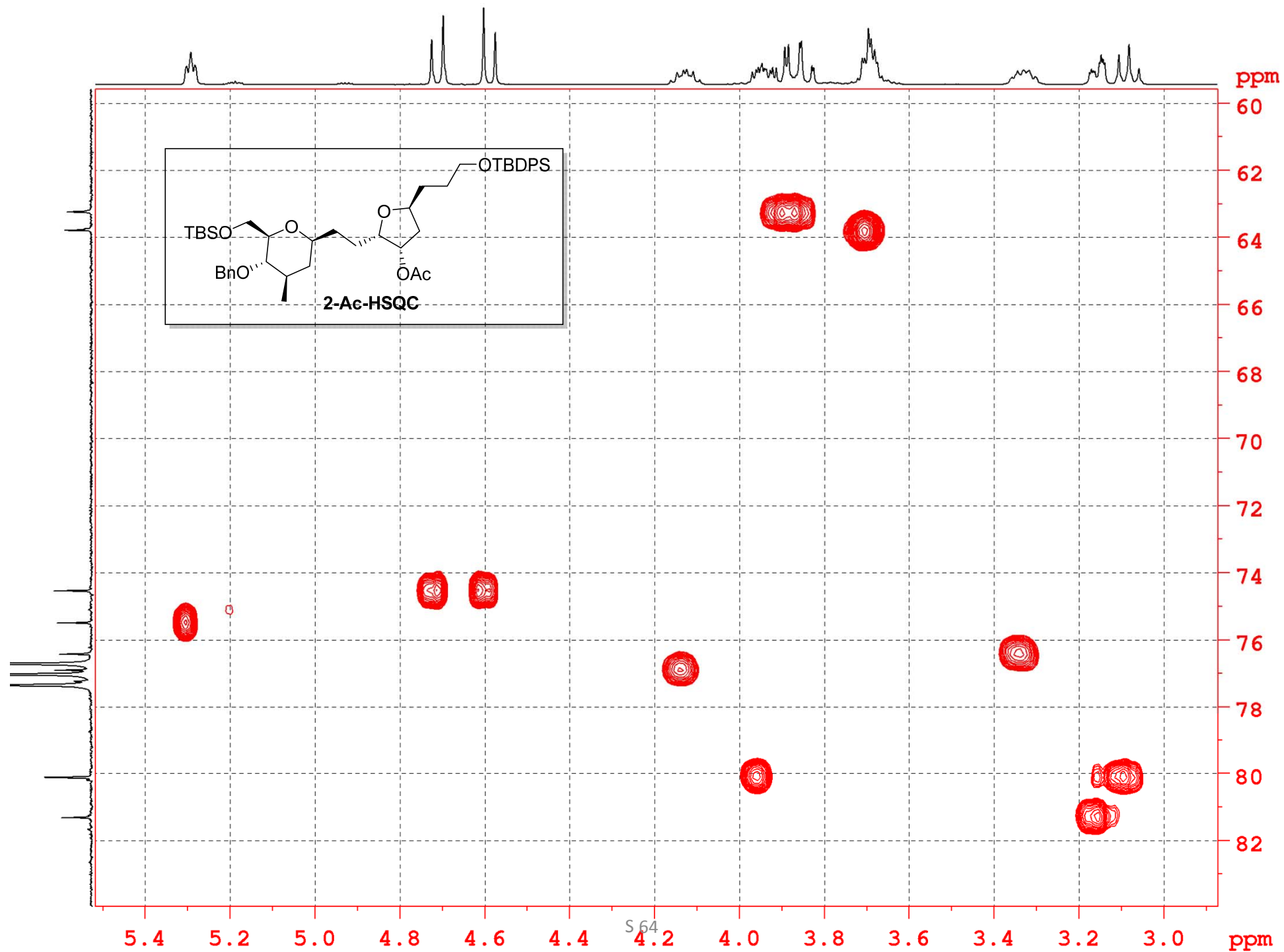


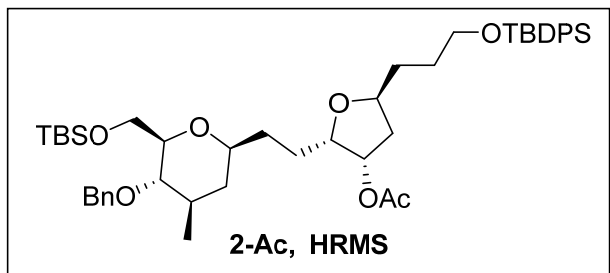




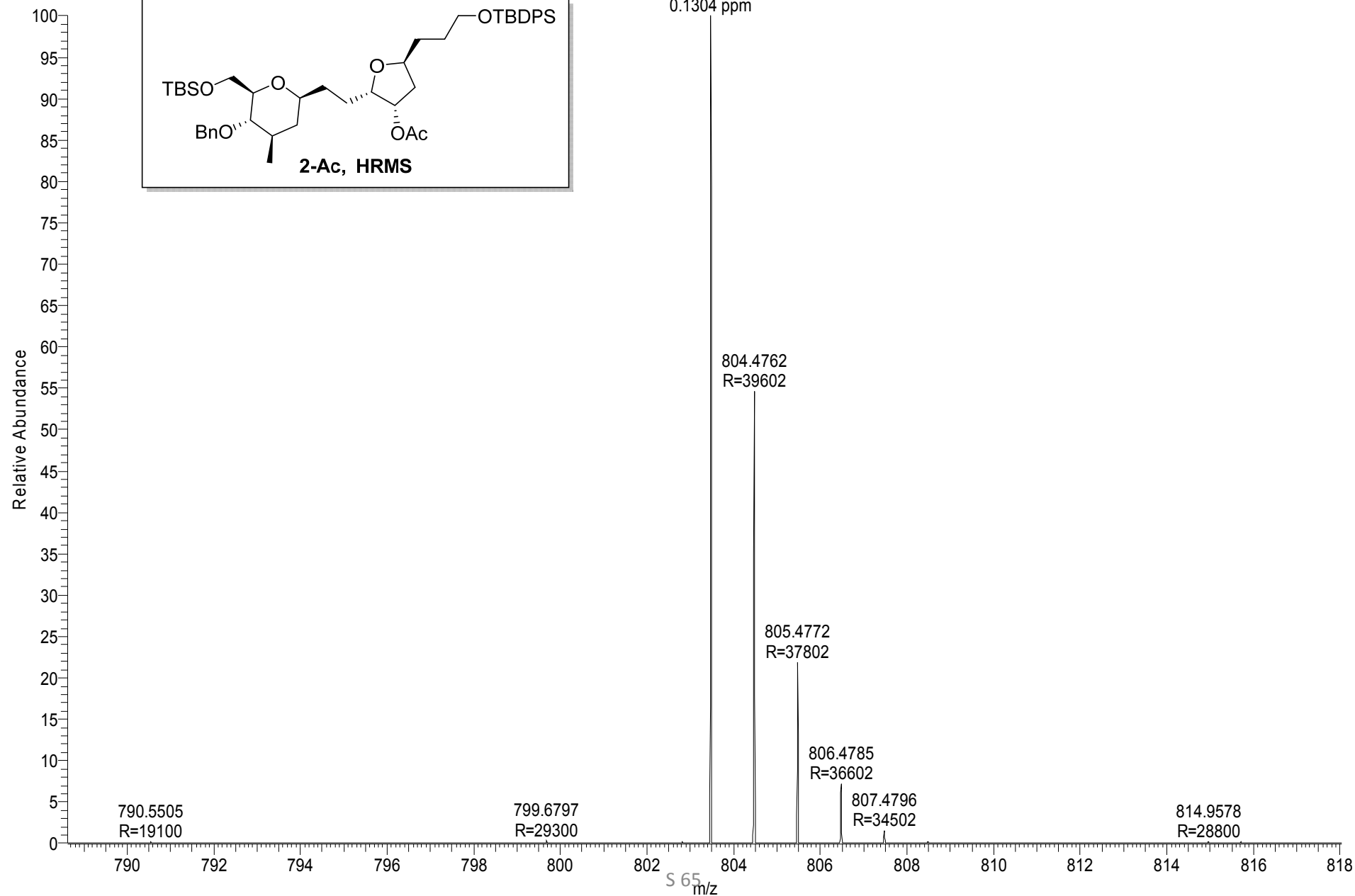


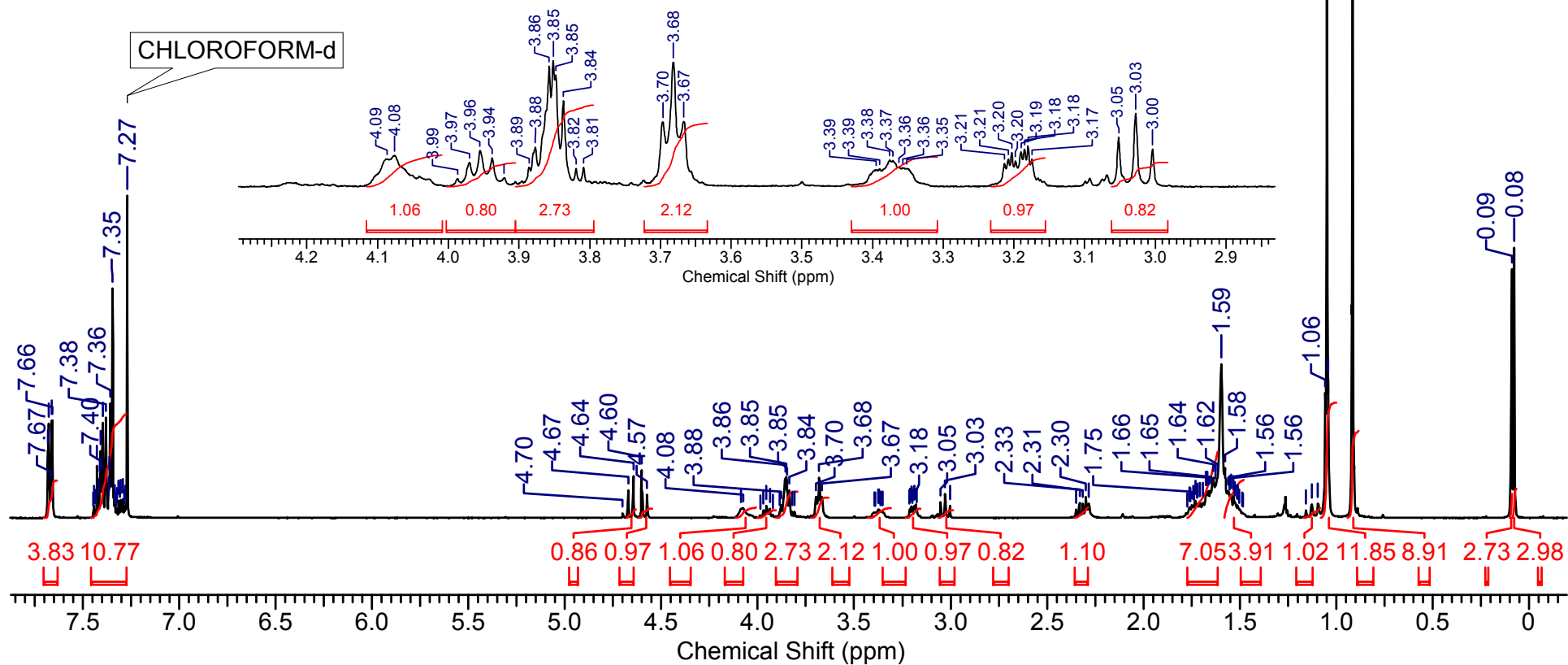
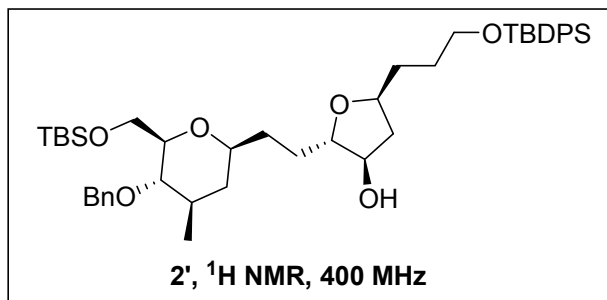


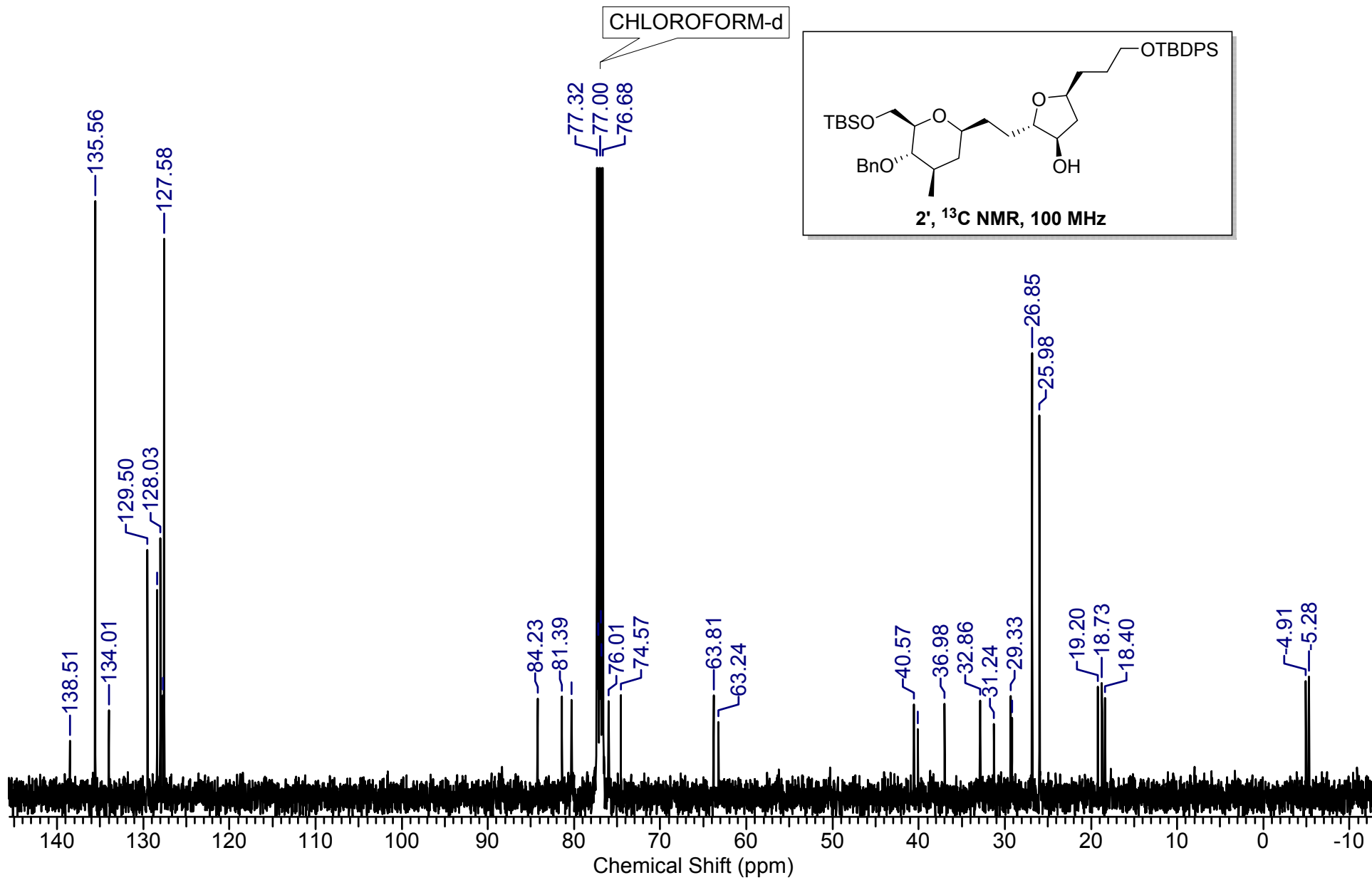


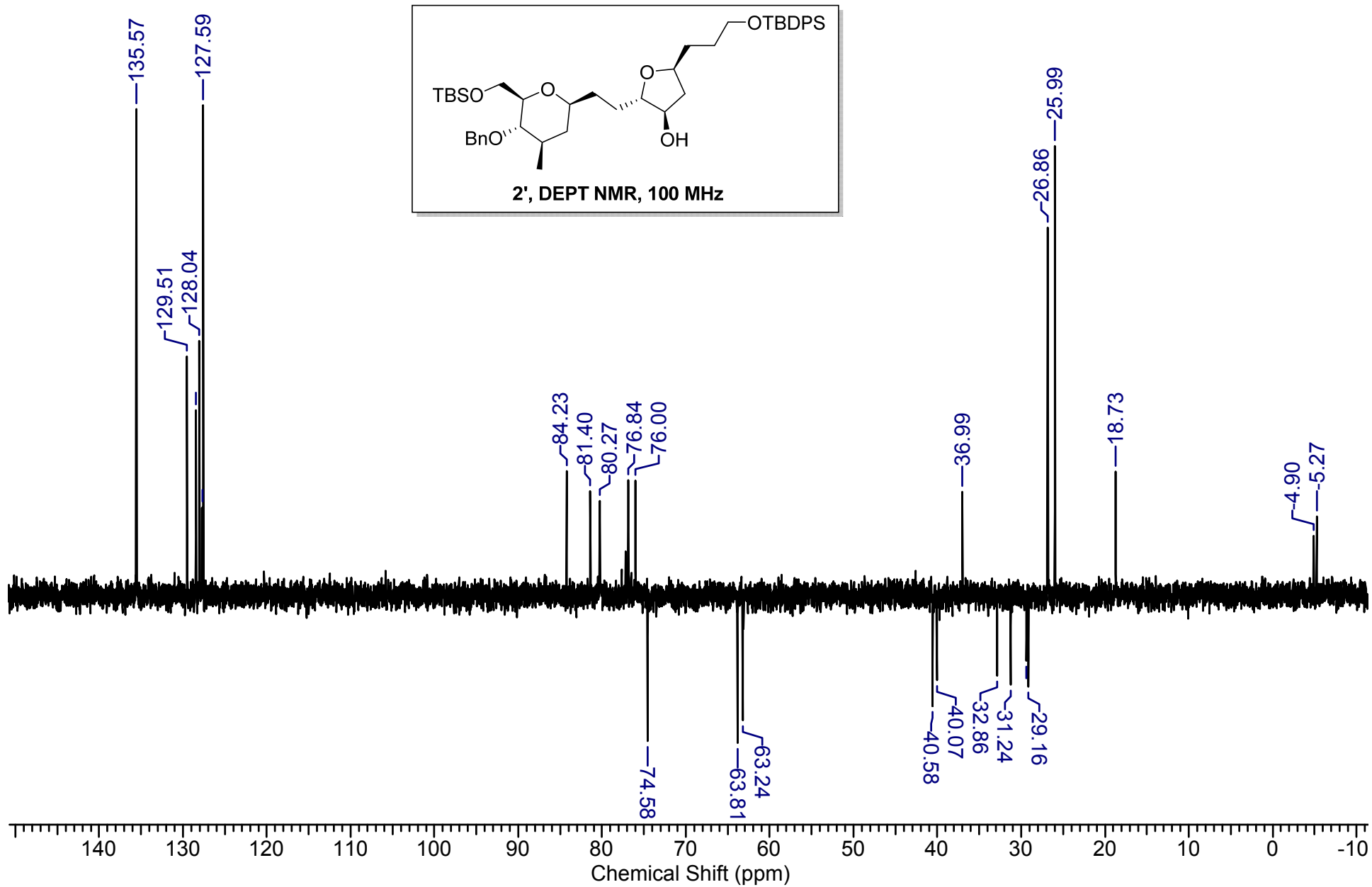


803.4734
R=39607
C₄₇ H₇₁ O₇ Si₂ = 803.4733
0.1304 ppm



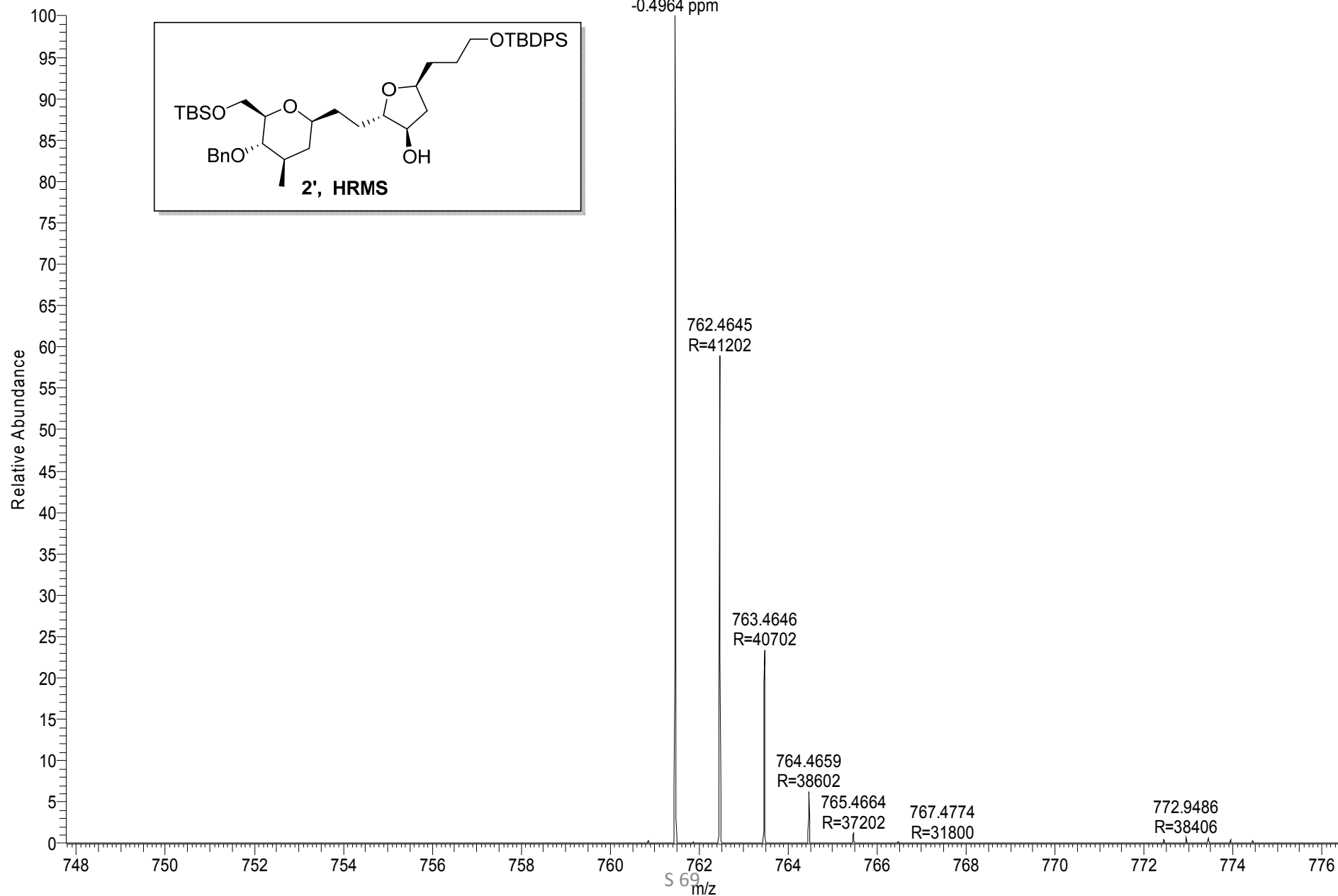


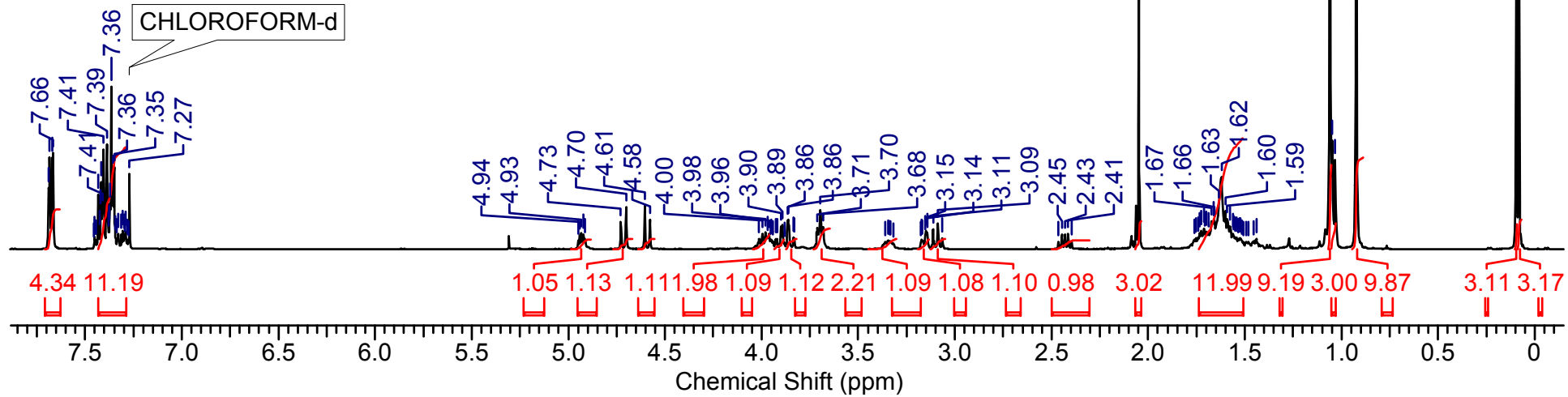
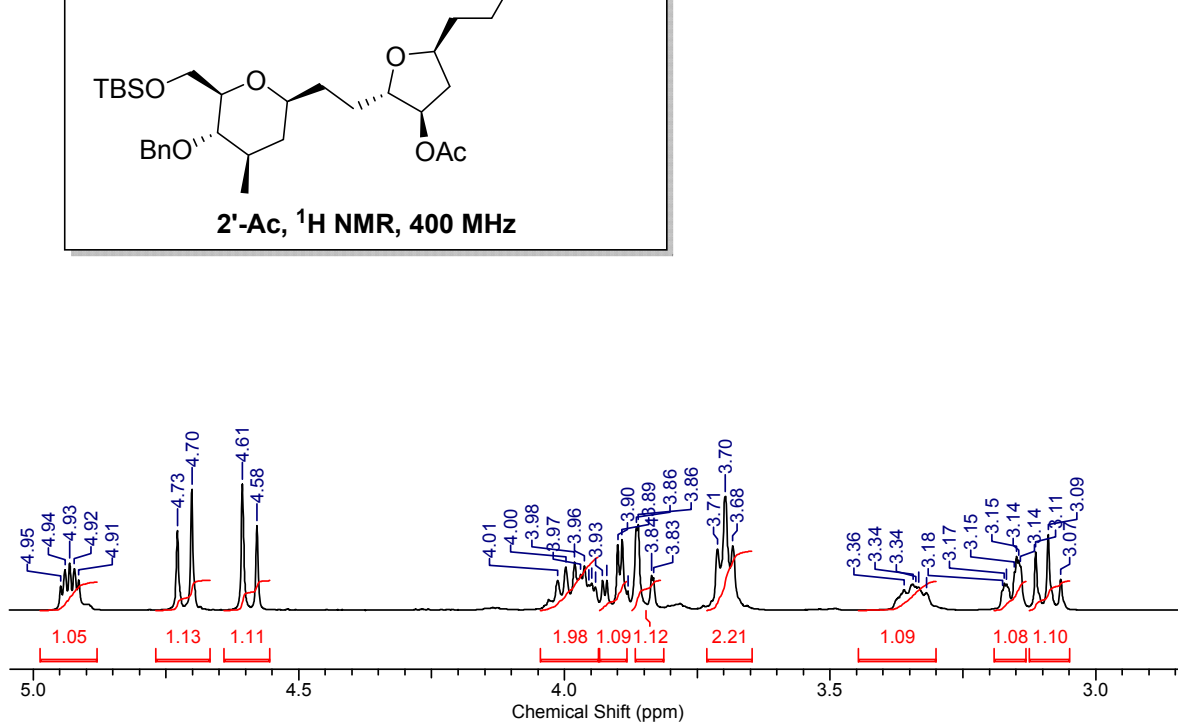
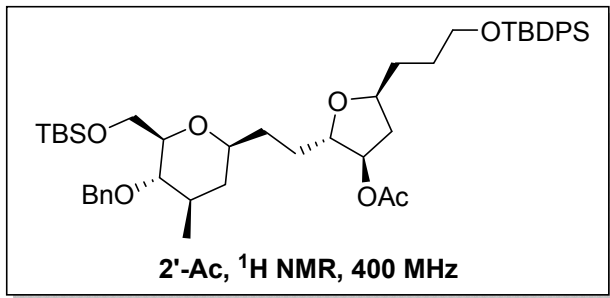


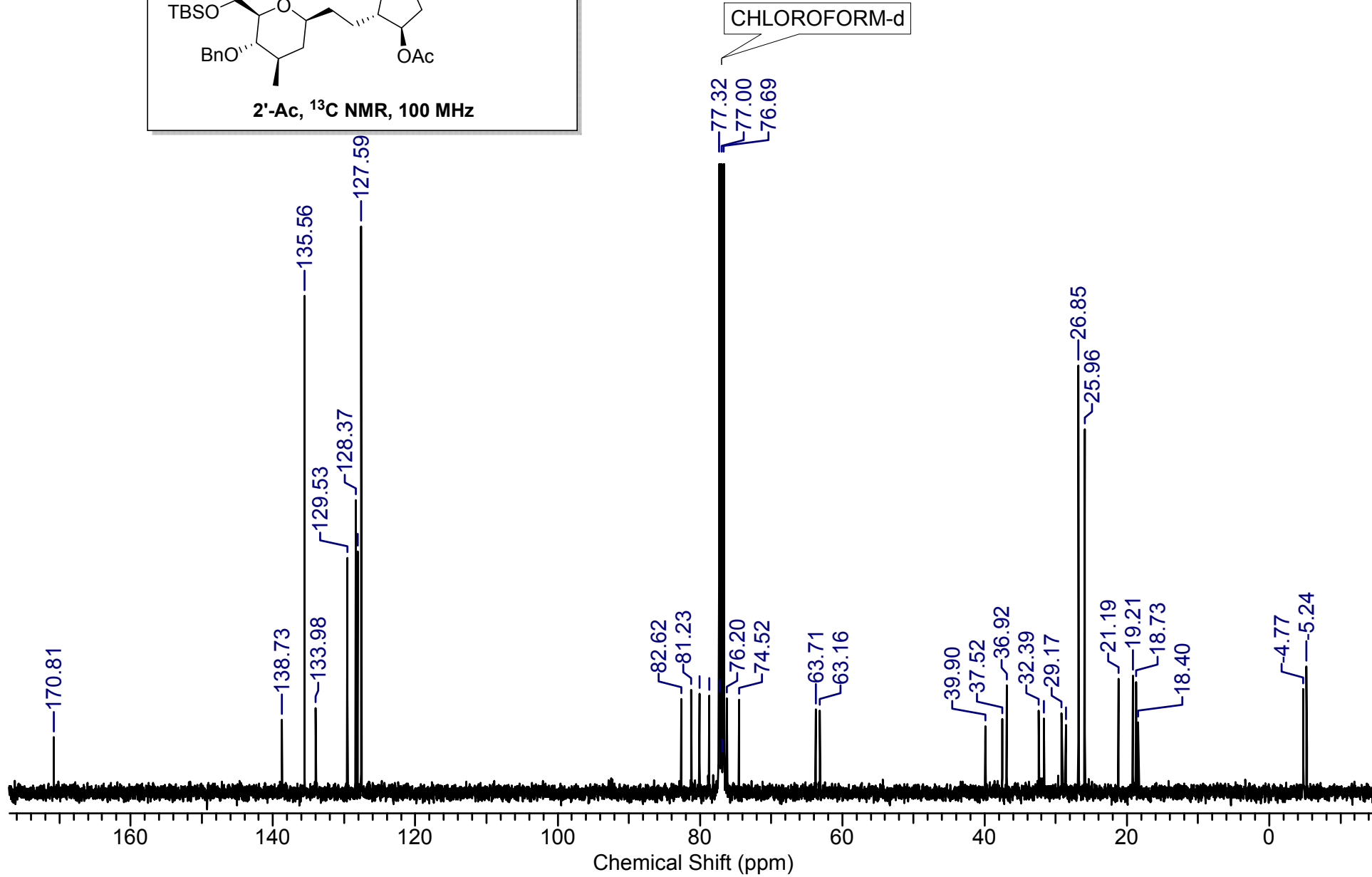
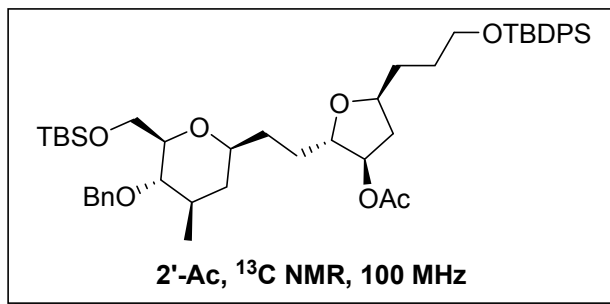


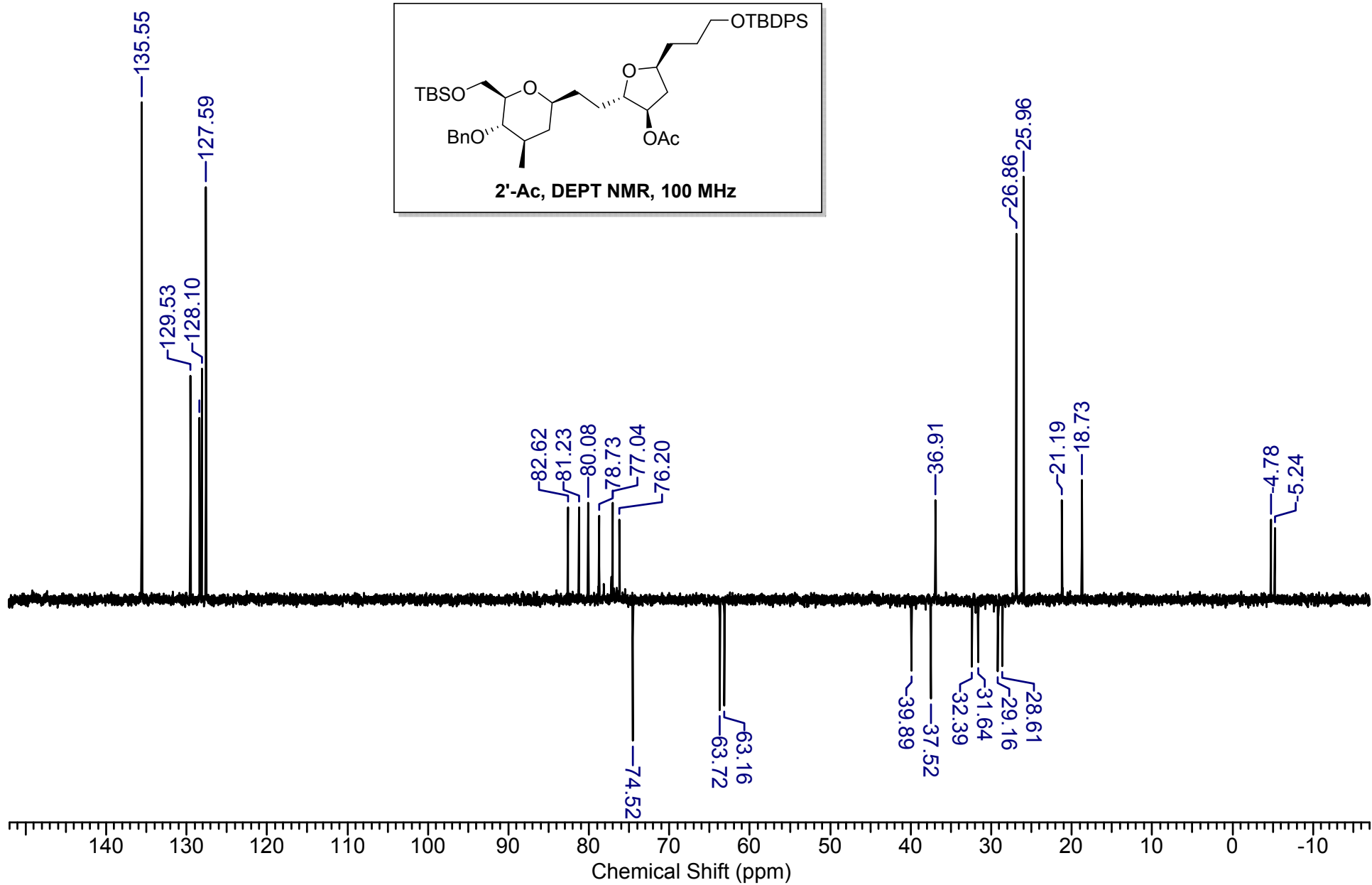
SS-3_210108162157 #2269 RT: 13.62 AV: 1 NL: 7.31E7
T: FTMS + p ESI Full ms [100.0000-1500.0000]

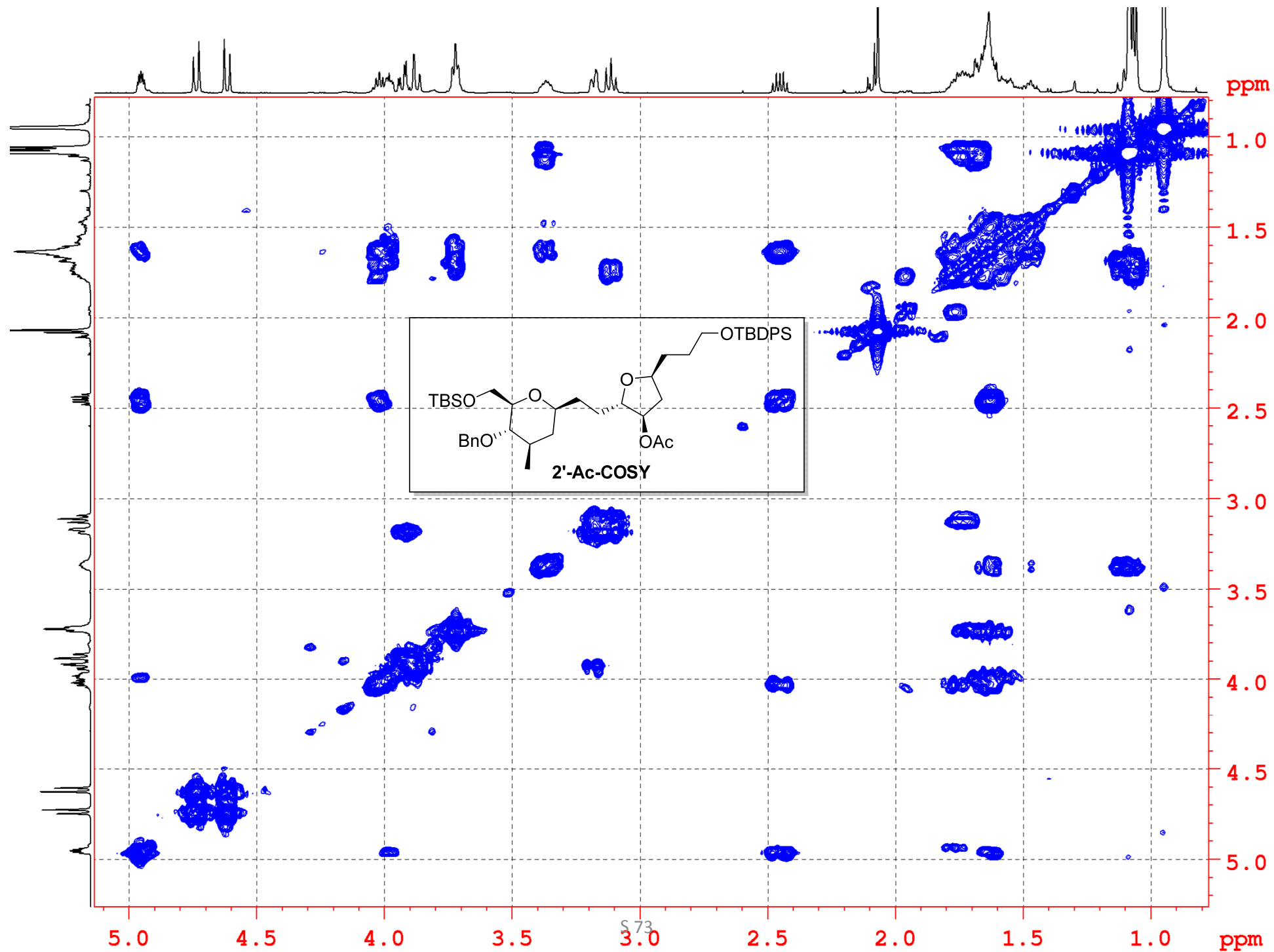
761.4623
R=41107
C₄₅H₆₉O₆Si₂ = 761.4627
-0.4964 ppm

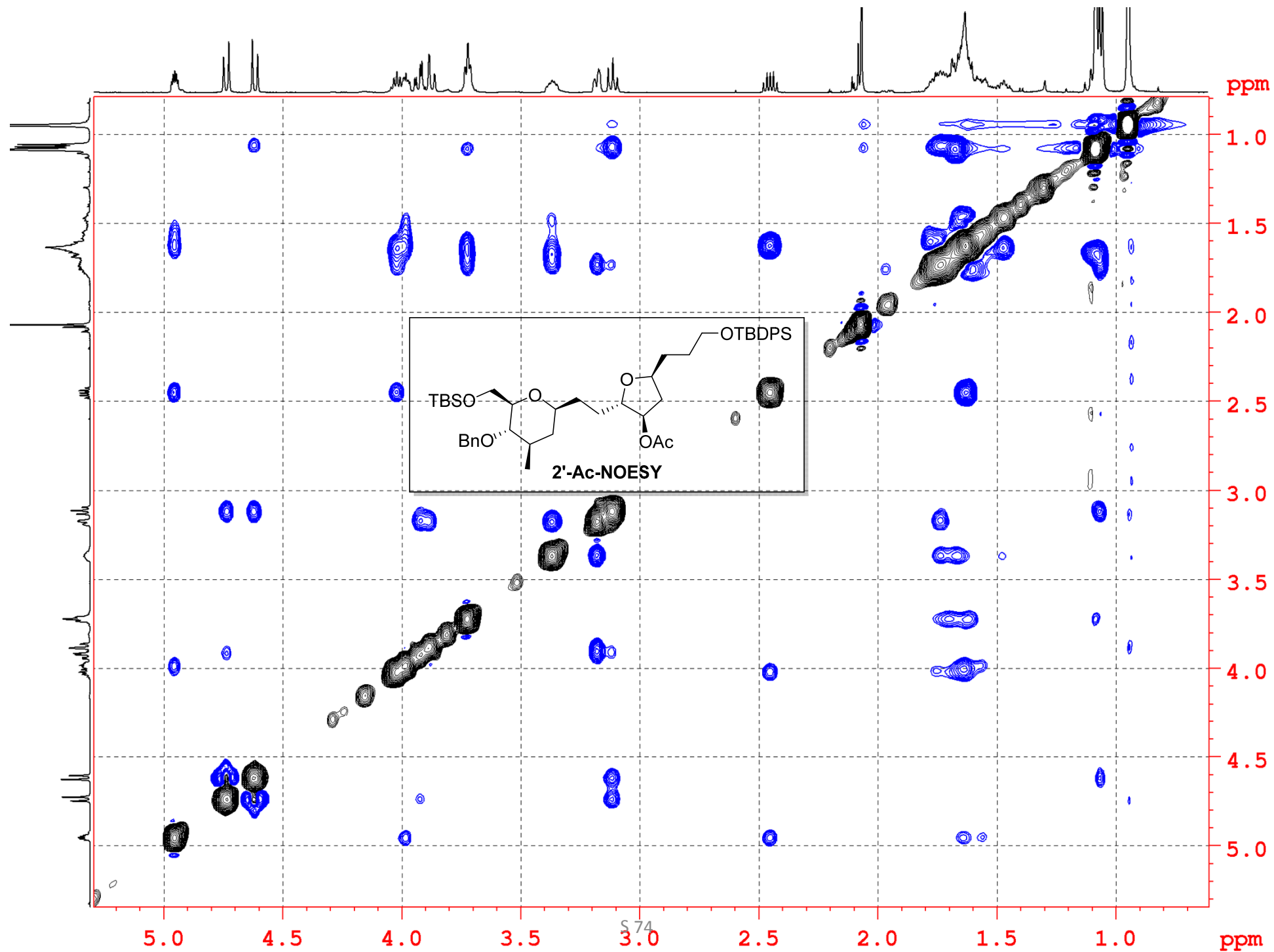


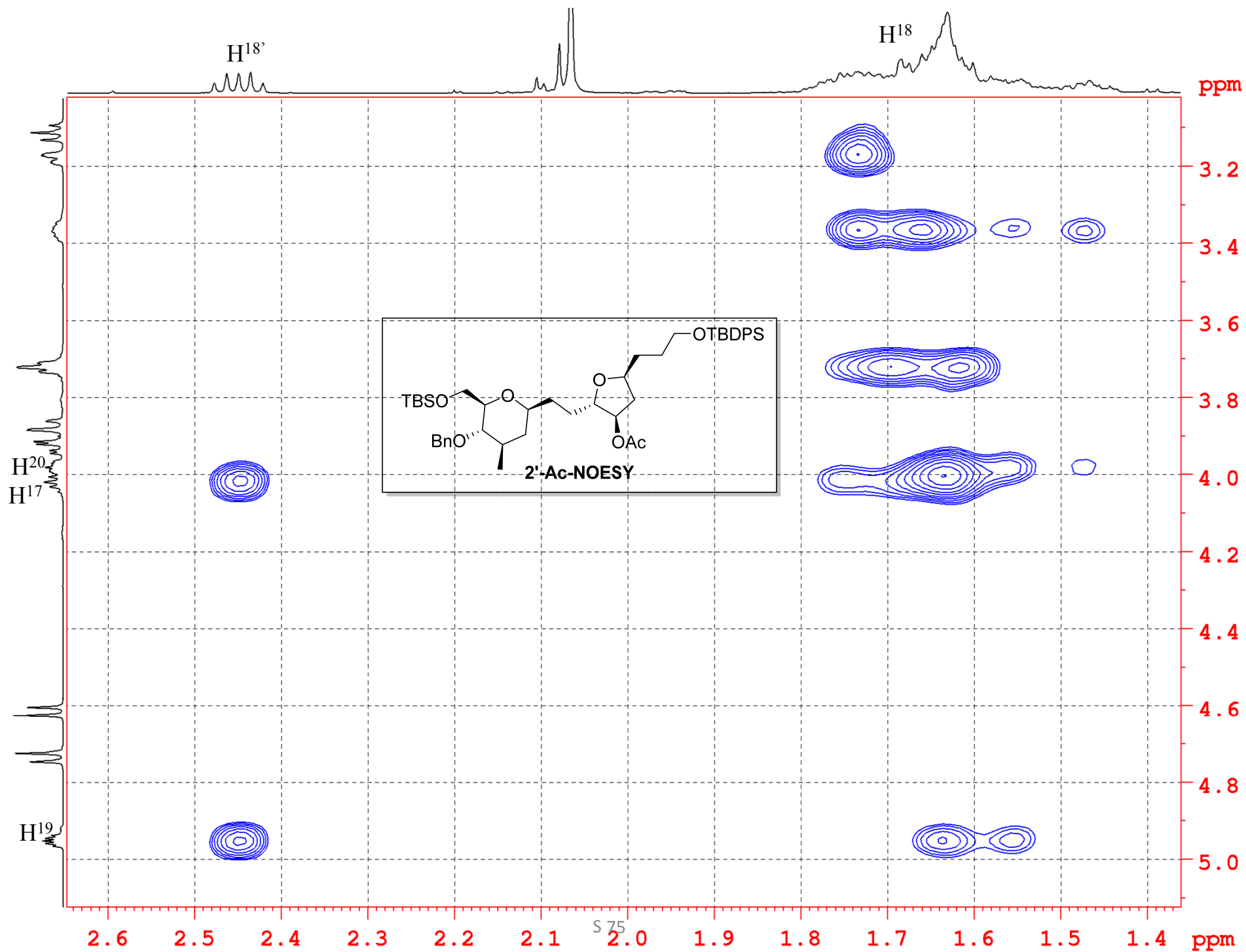


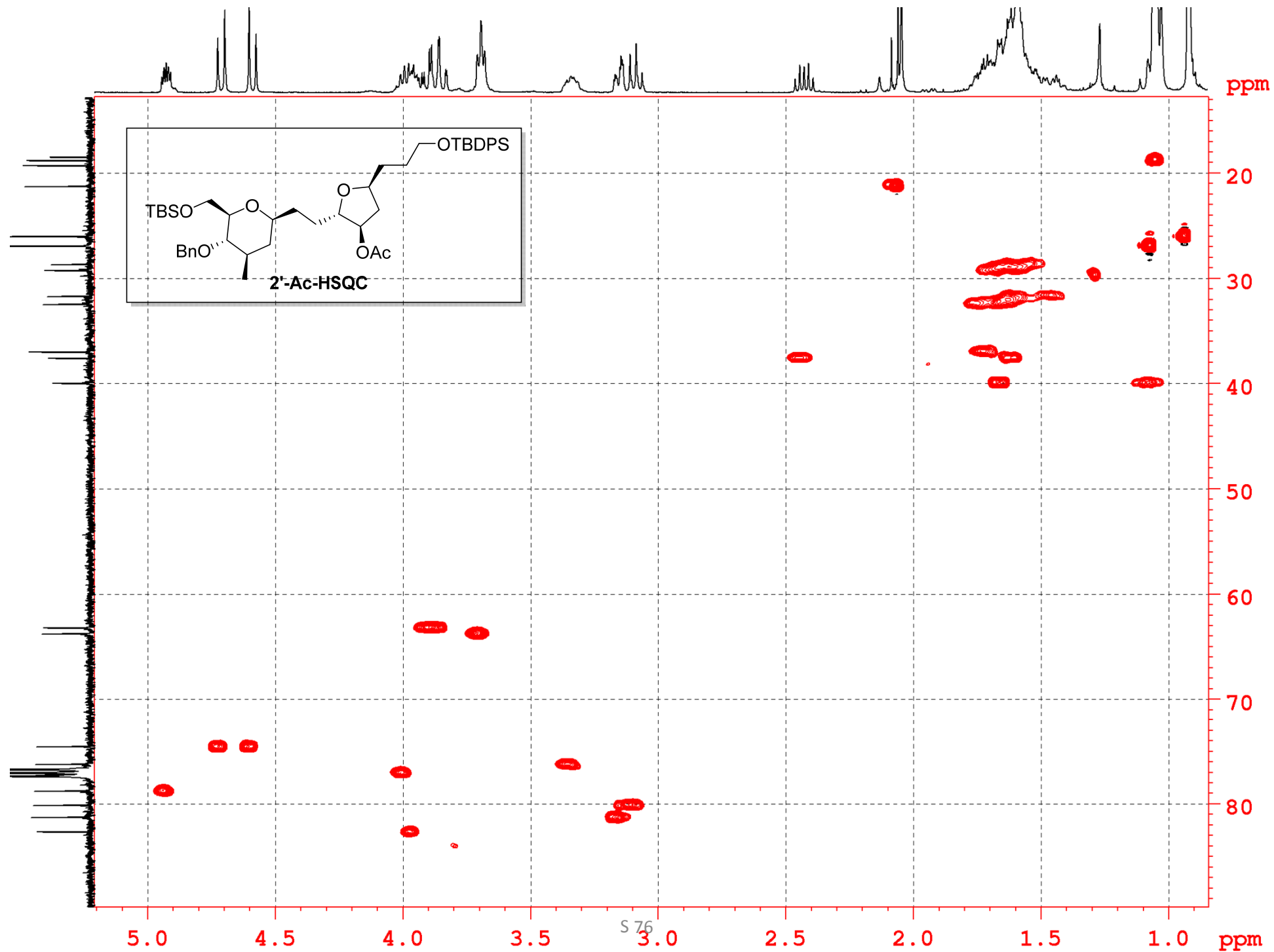


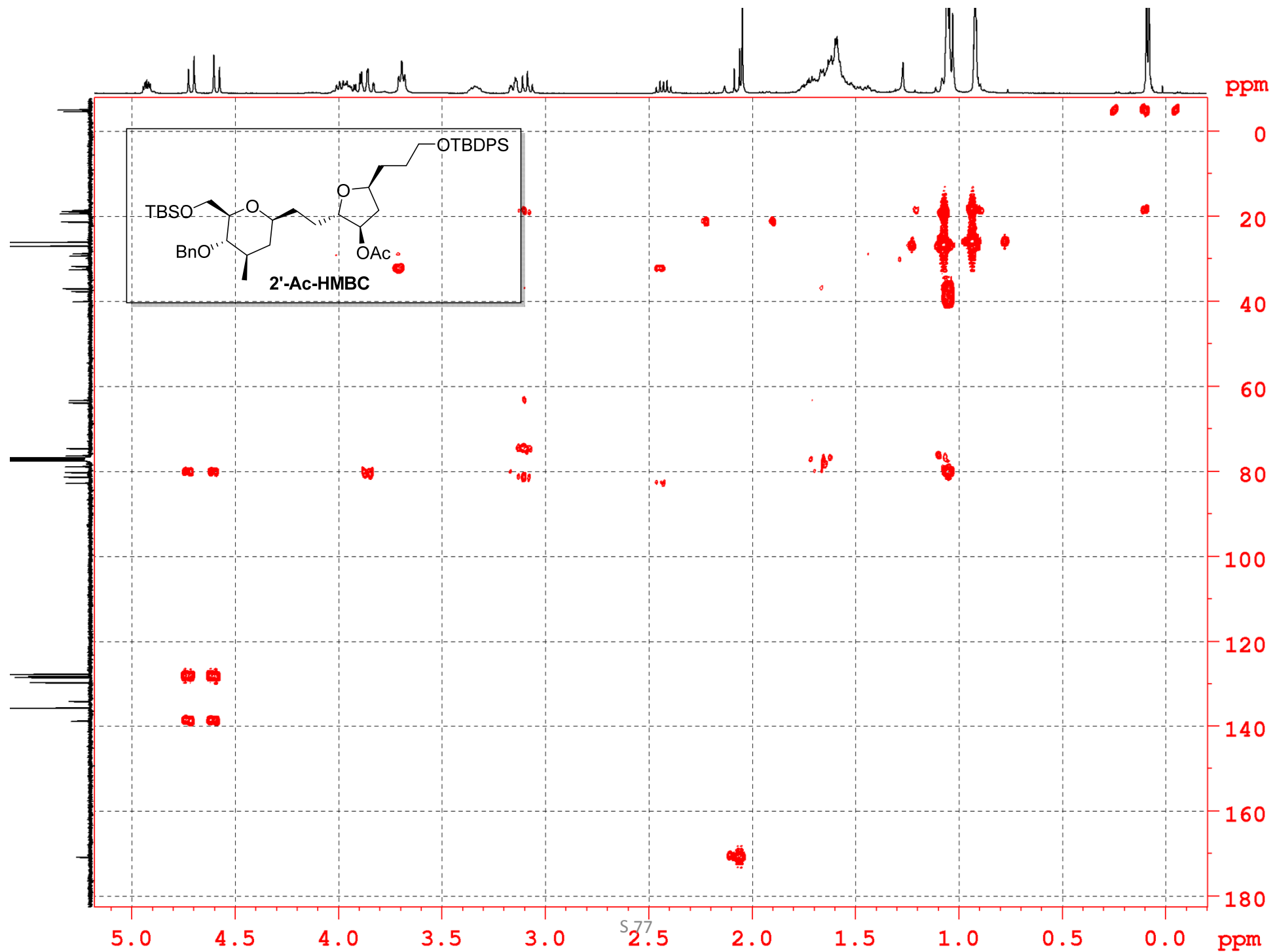


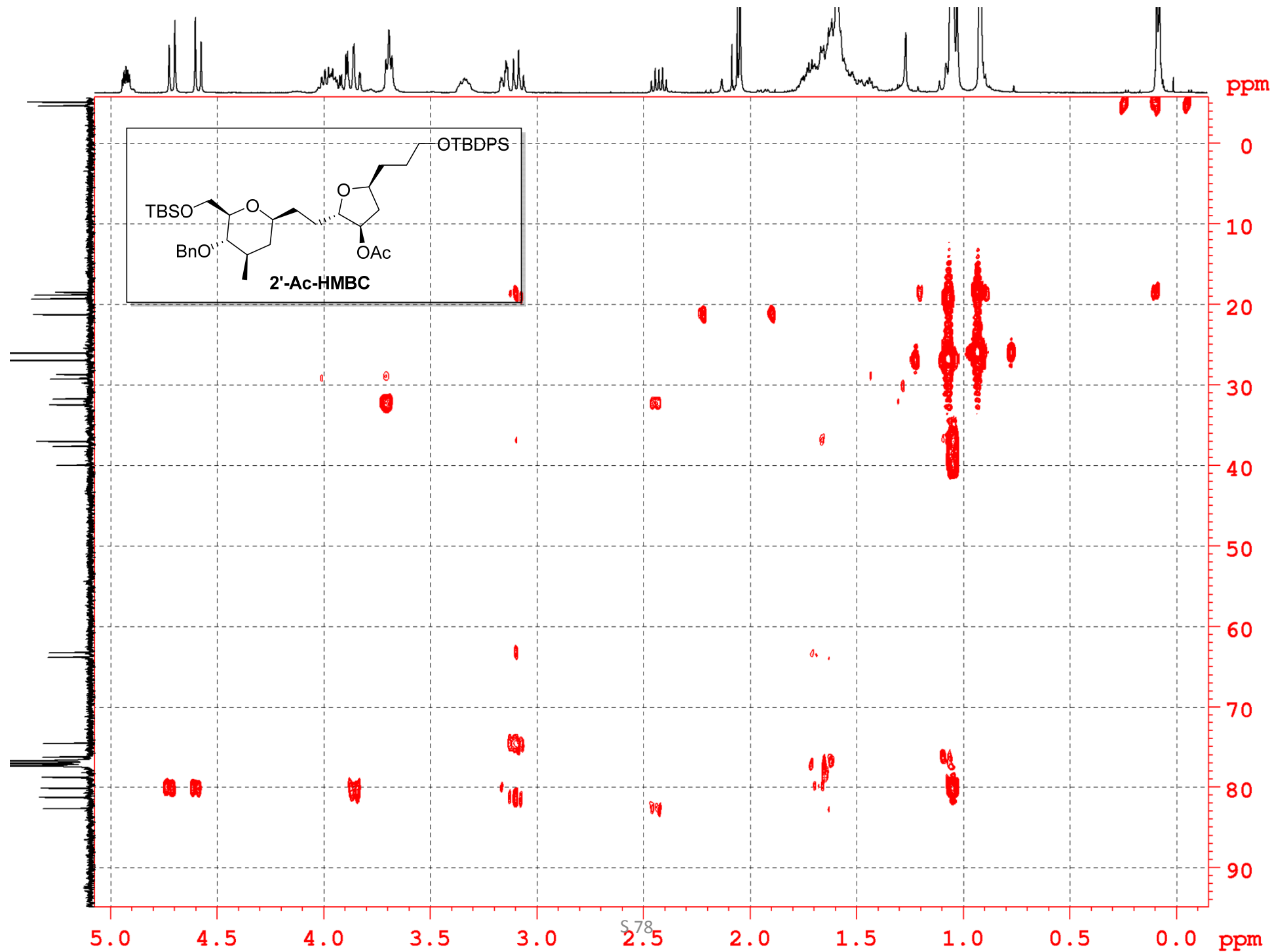


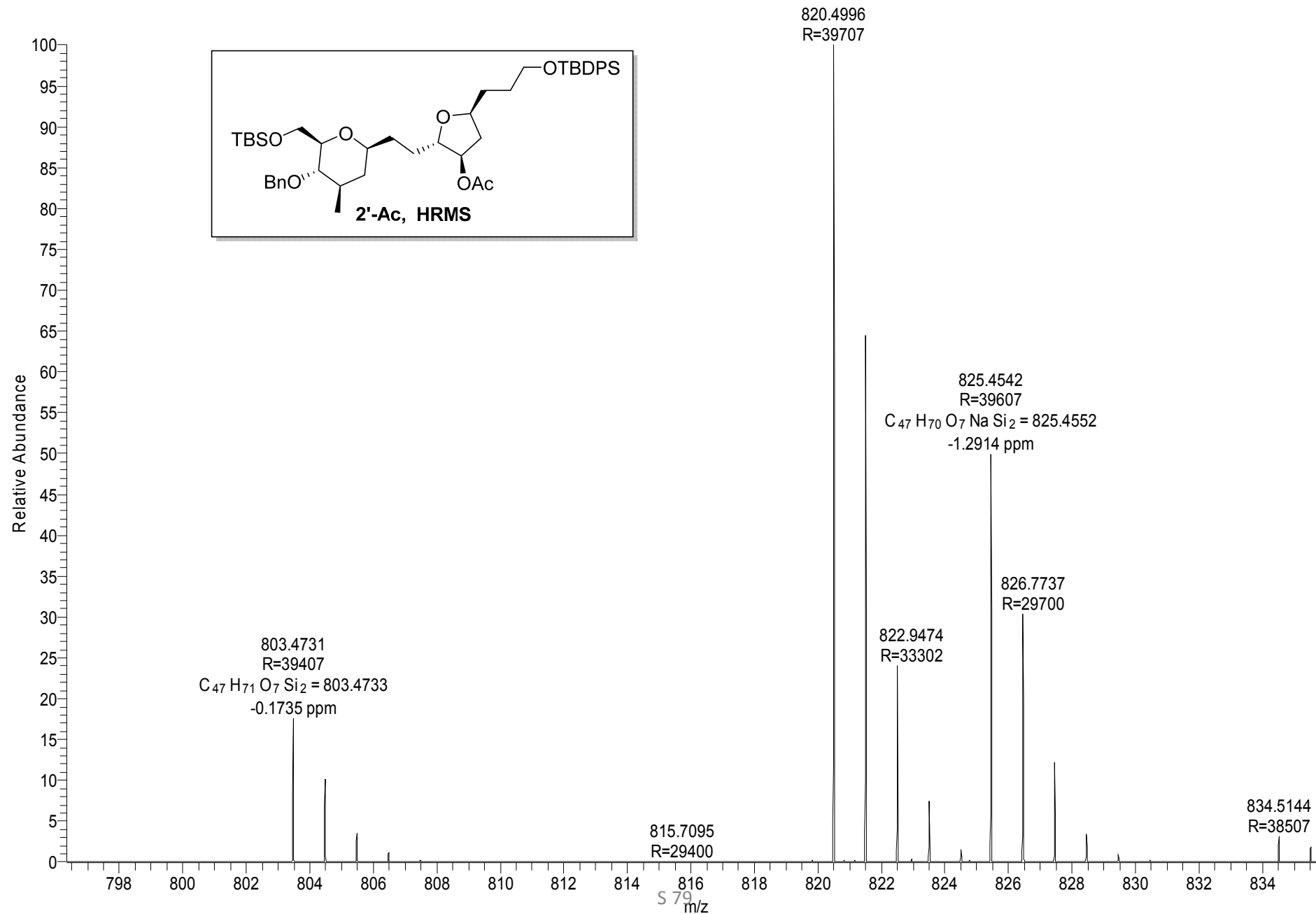
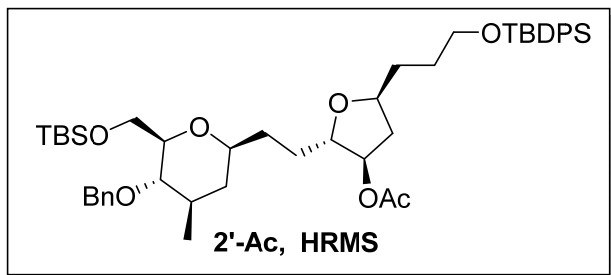


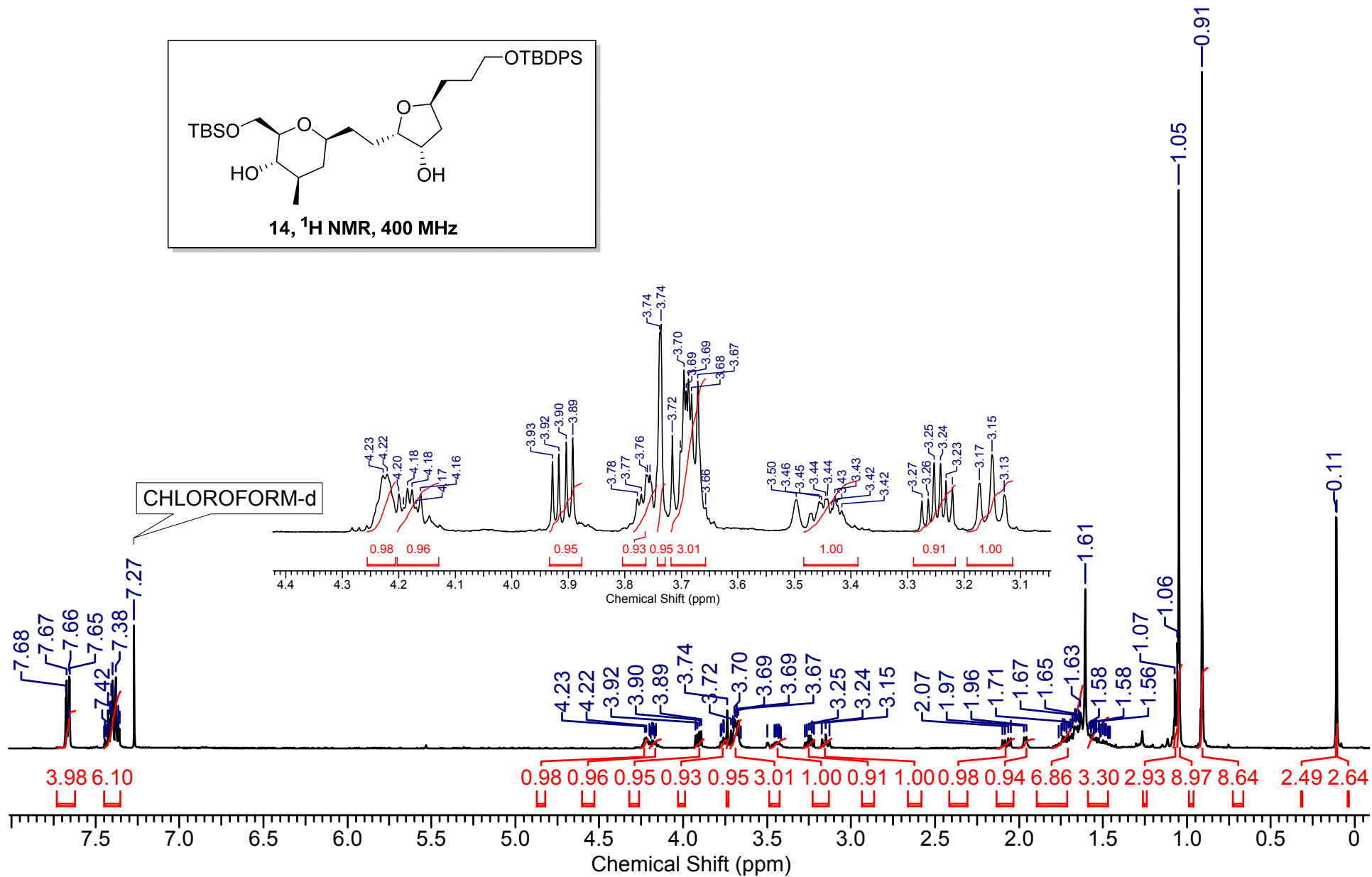
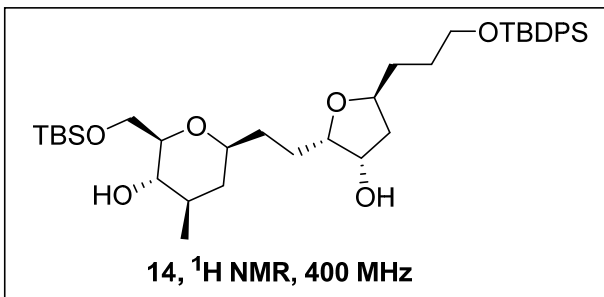


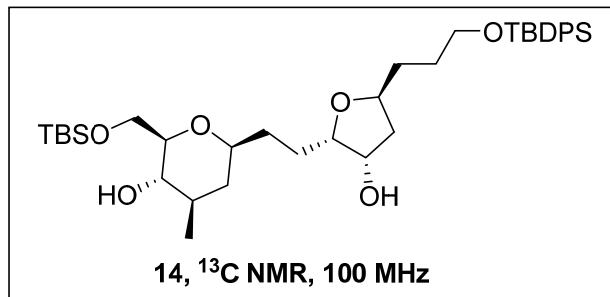




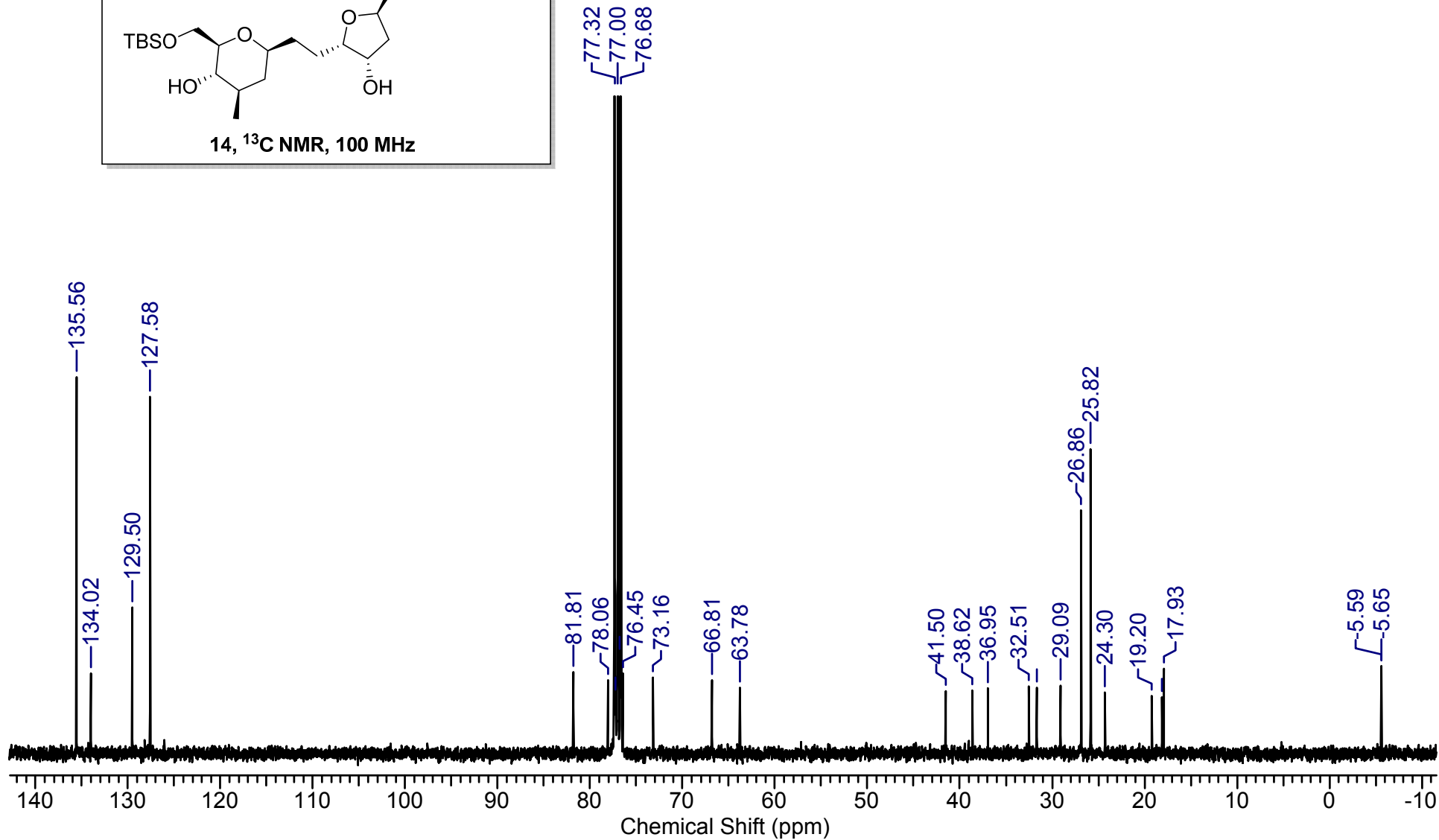


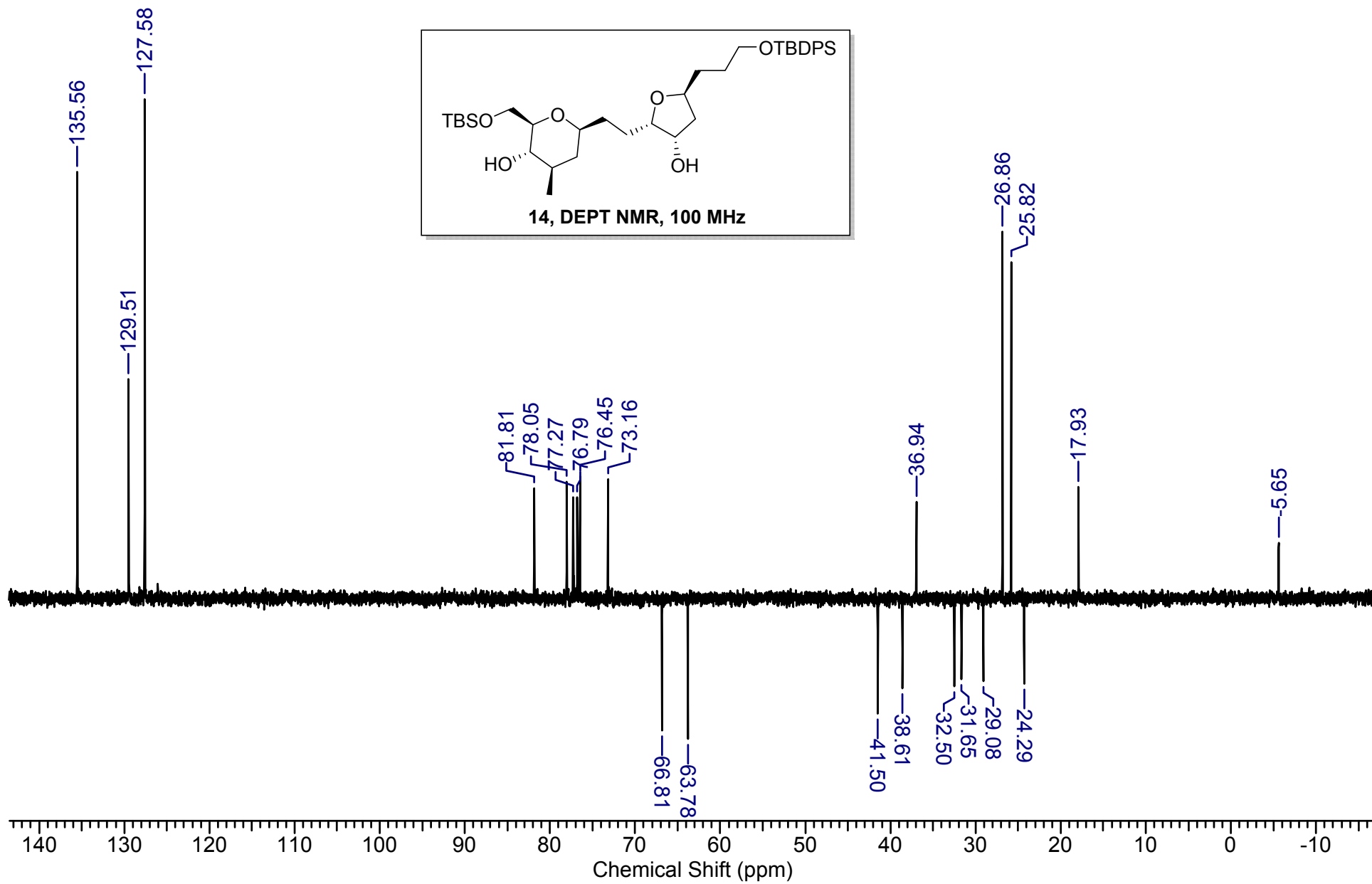
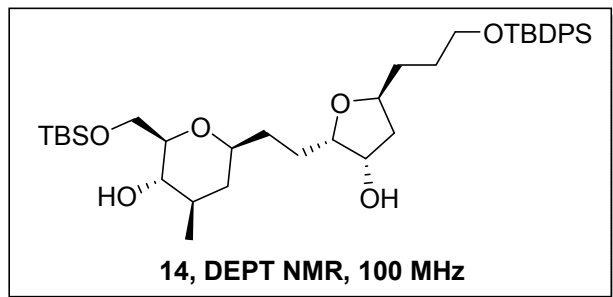


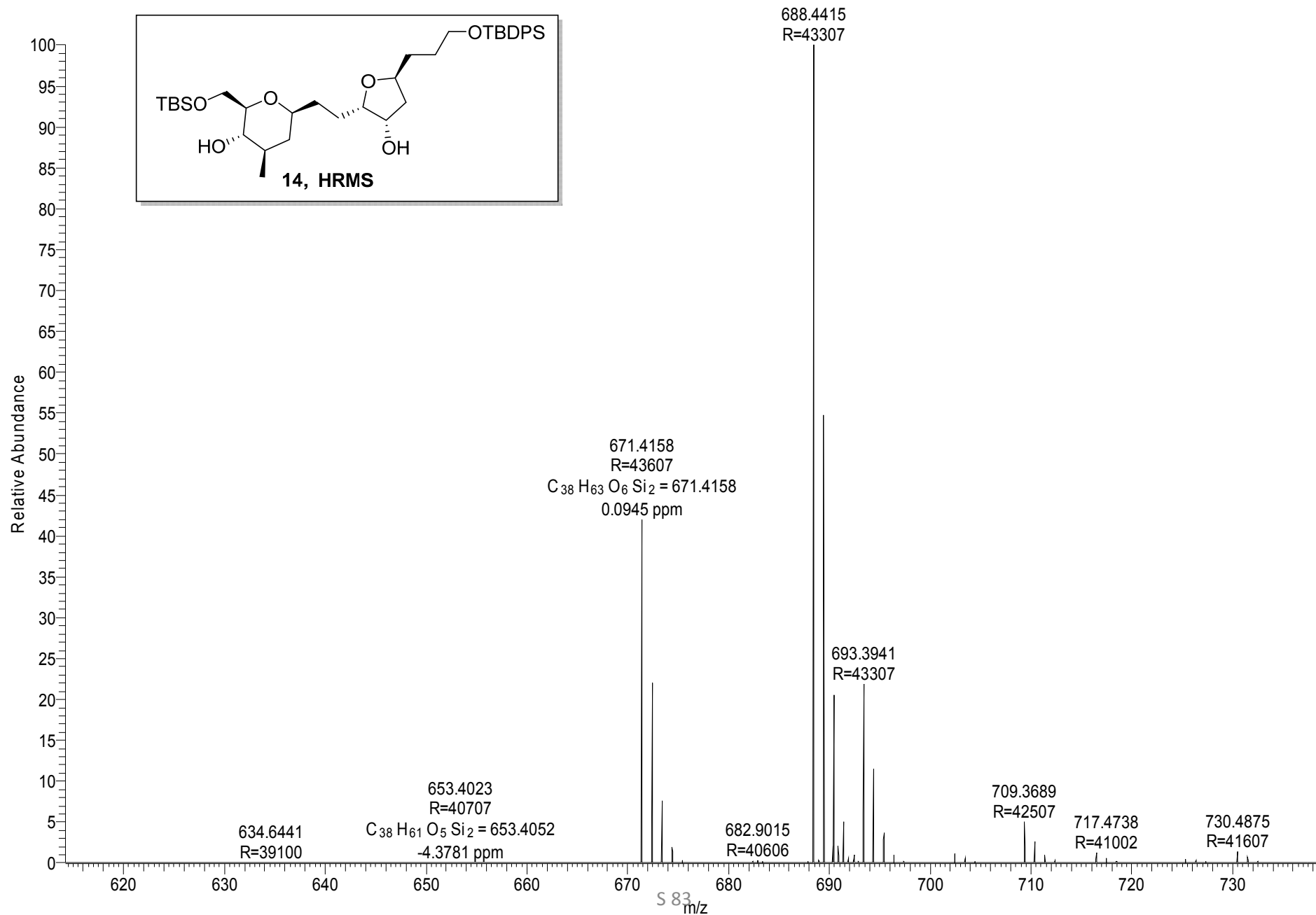
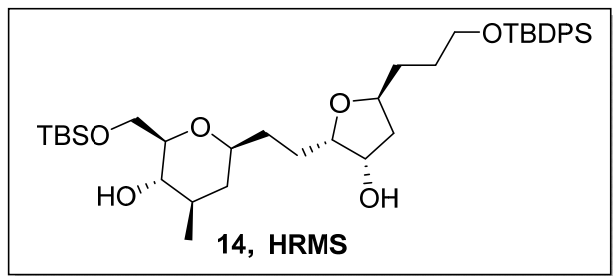


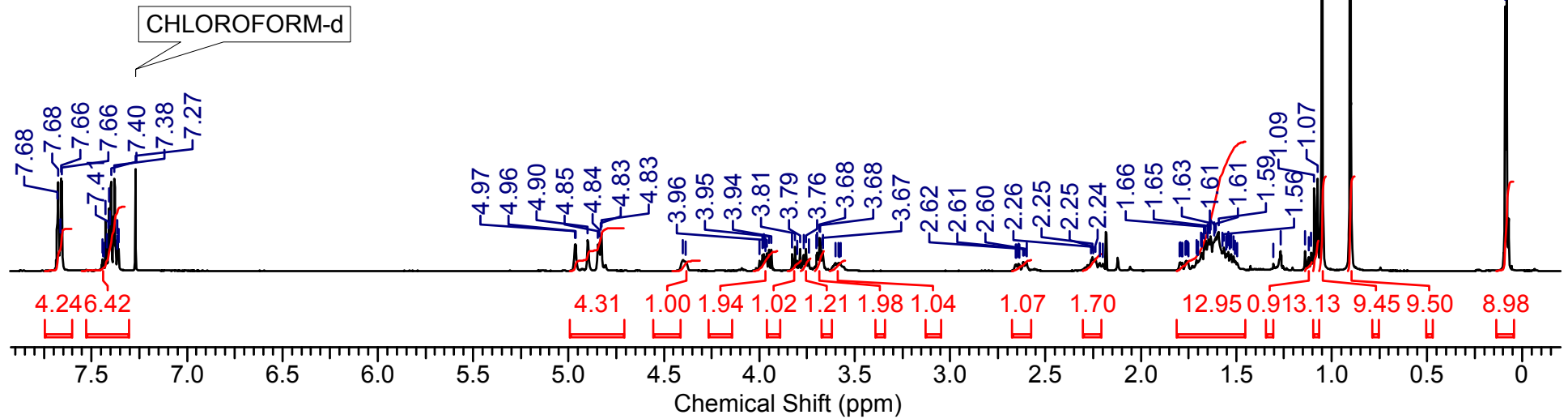
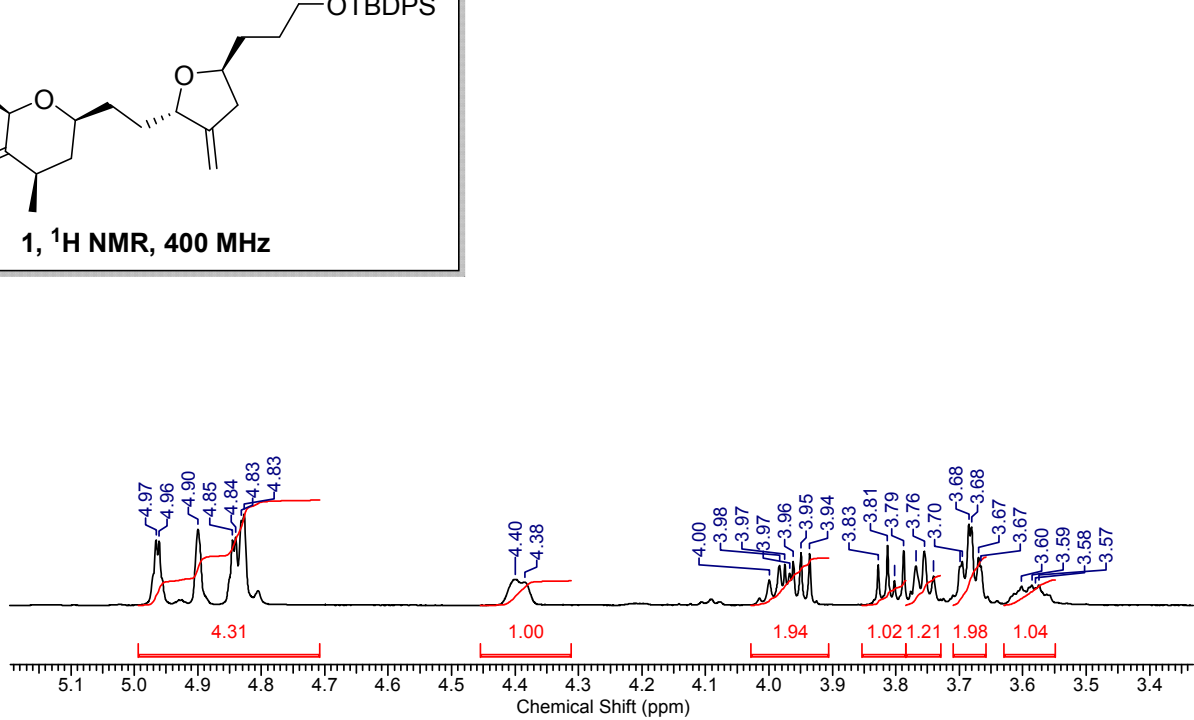
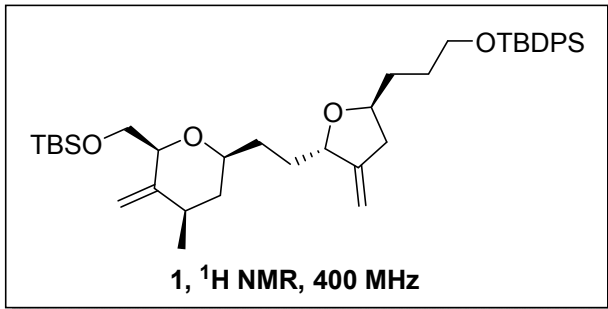


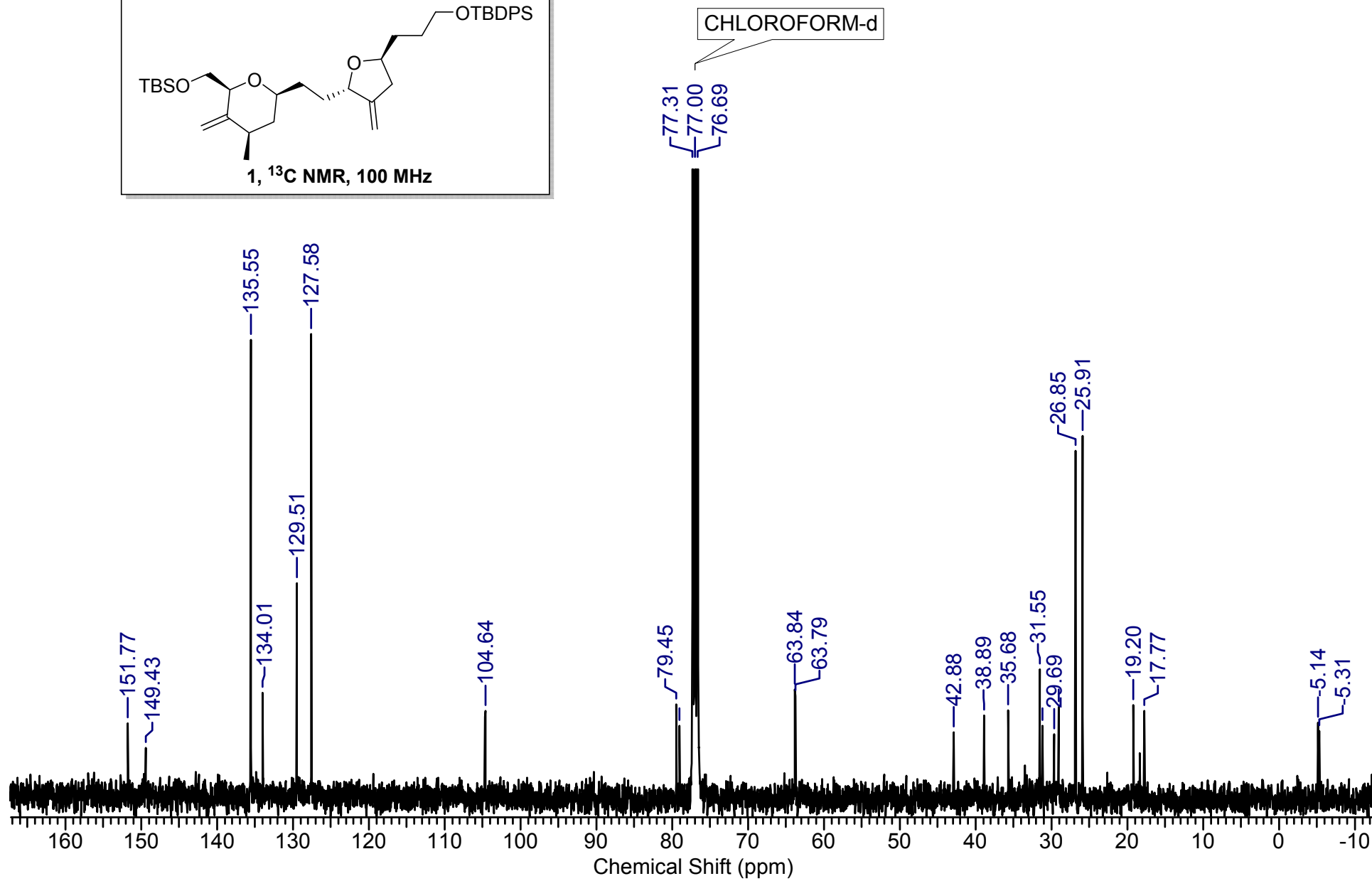
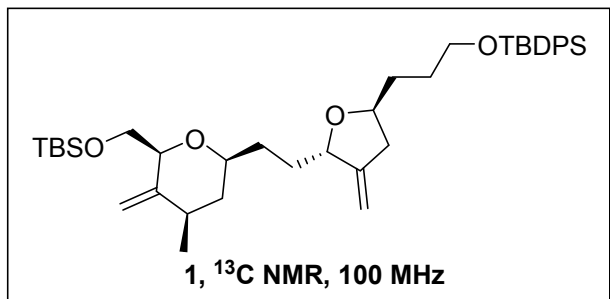
CHLOROFORM-d

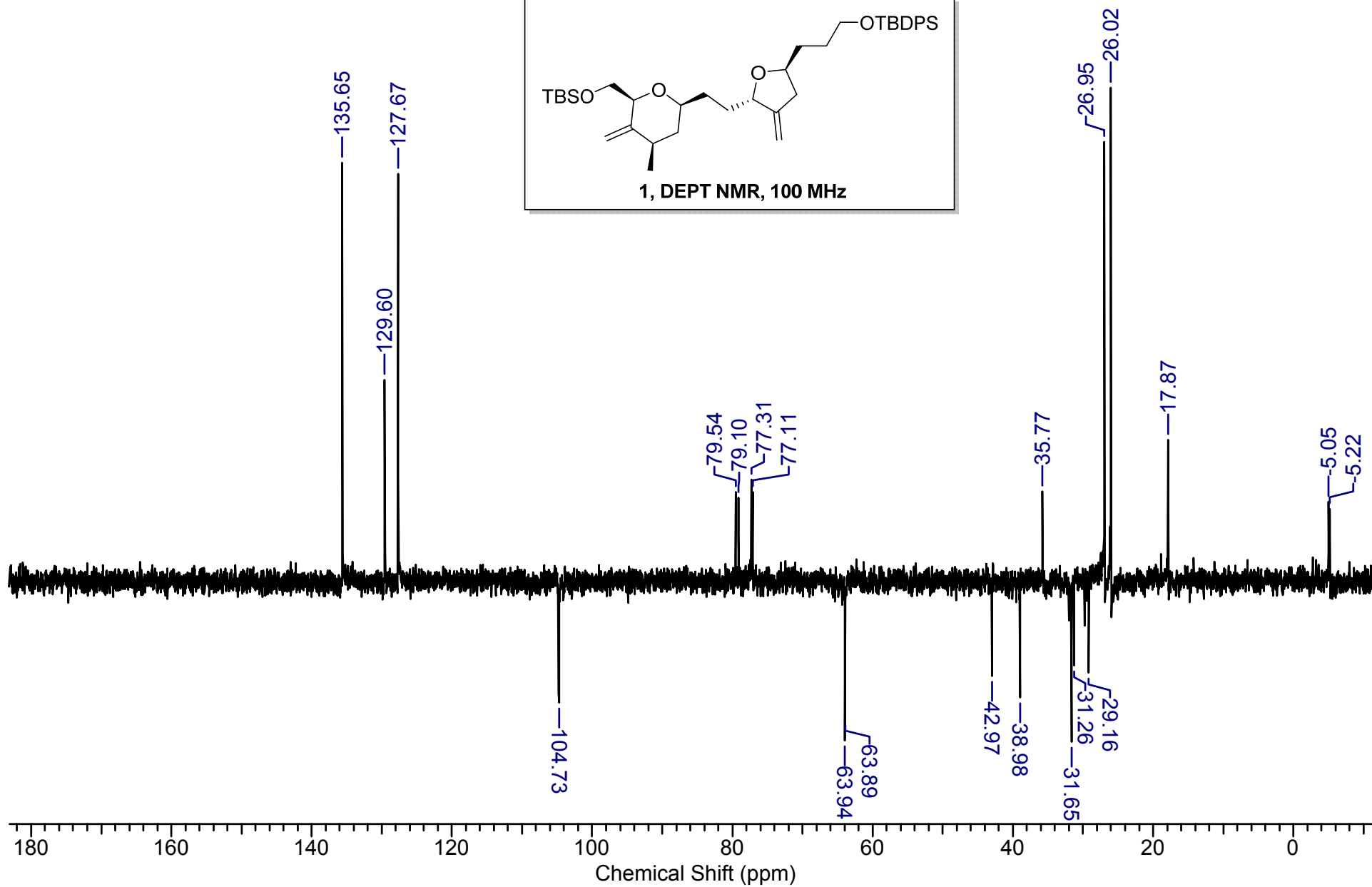
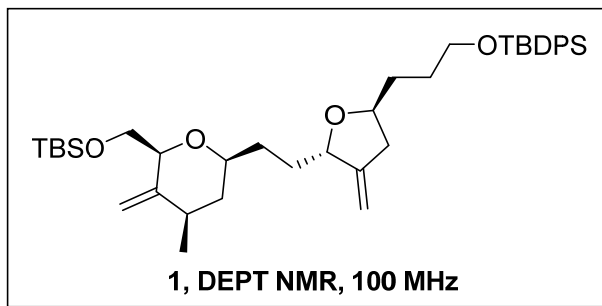


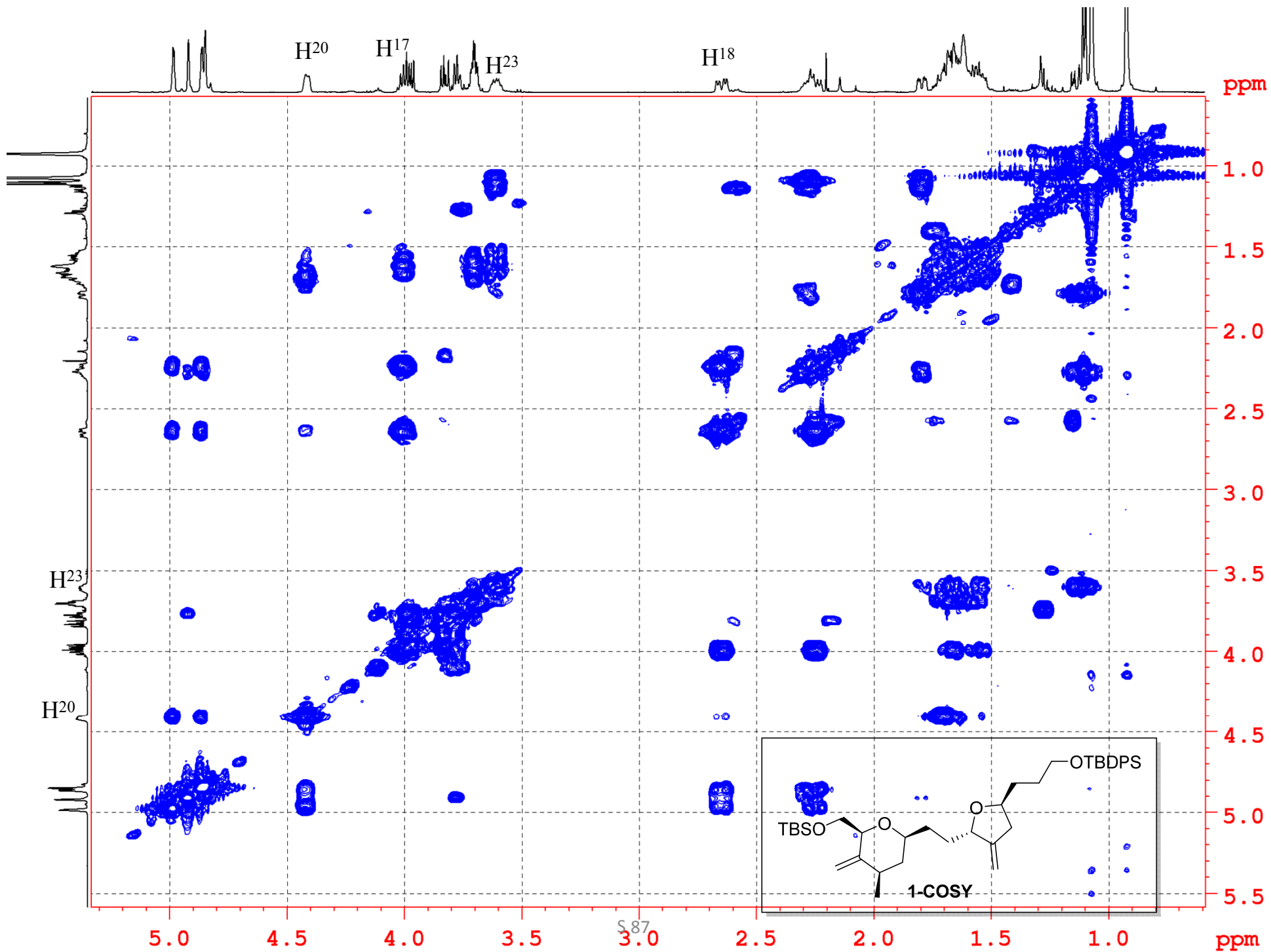


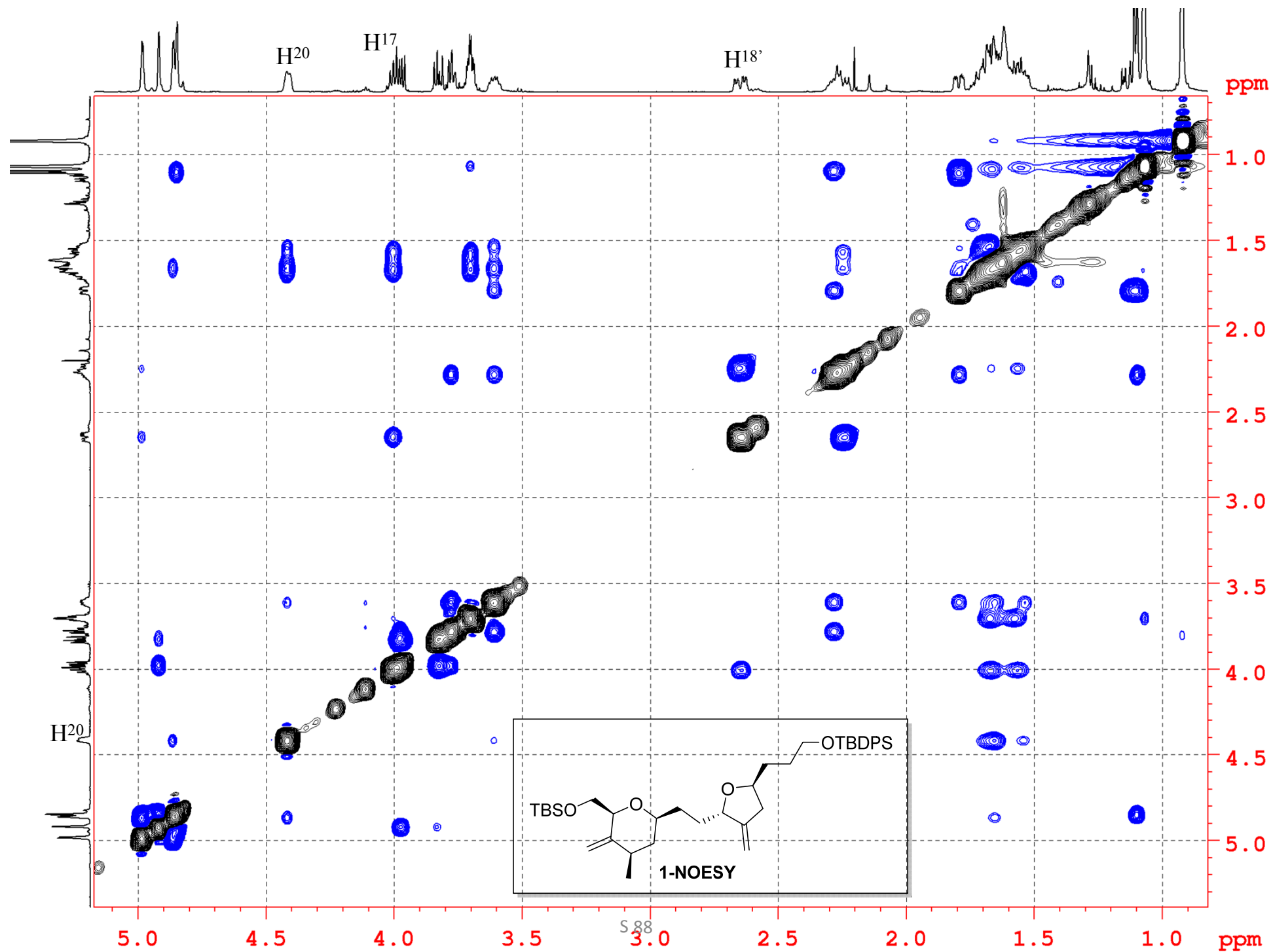


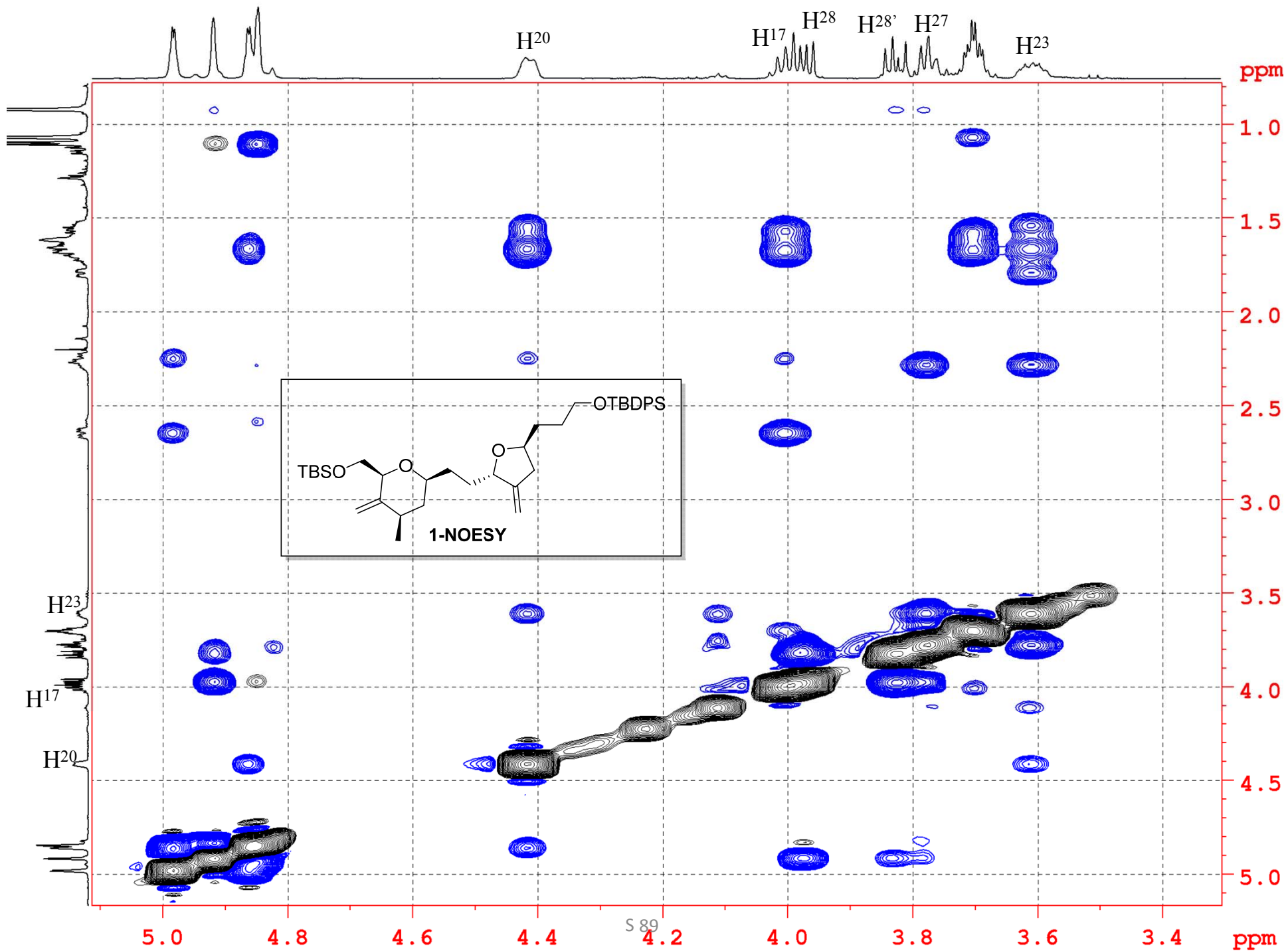


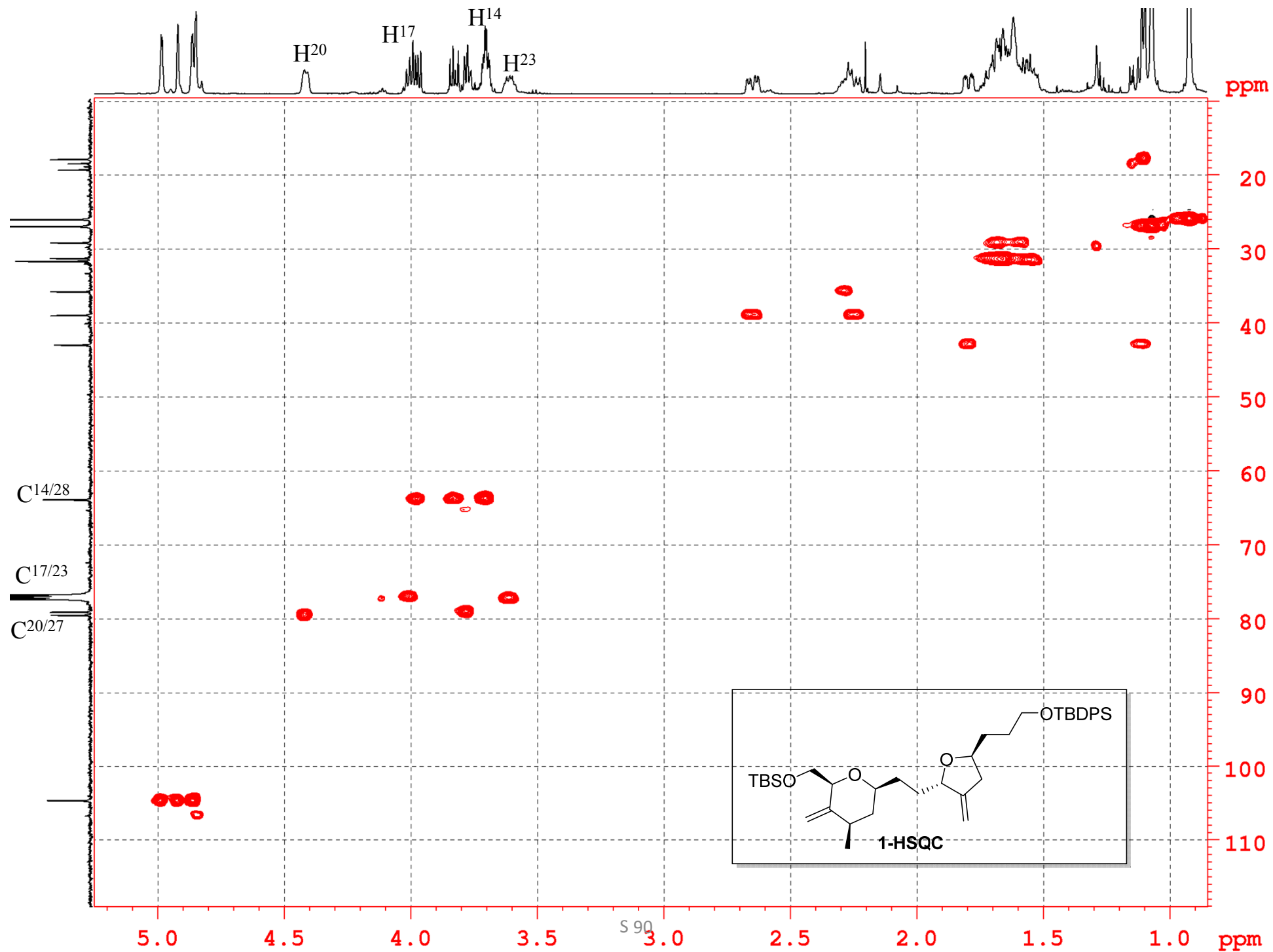


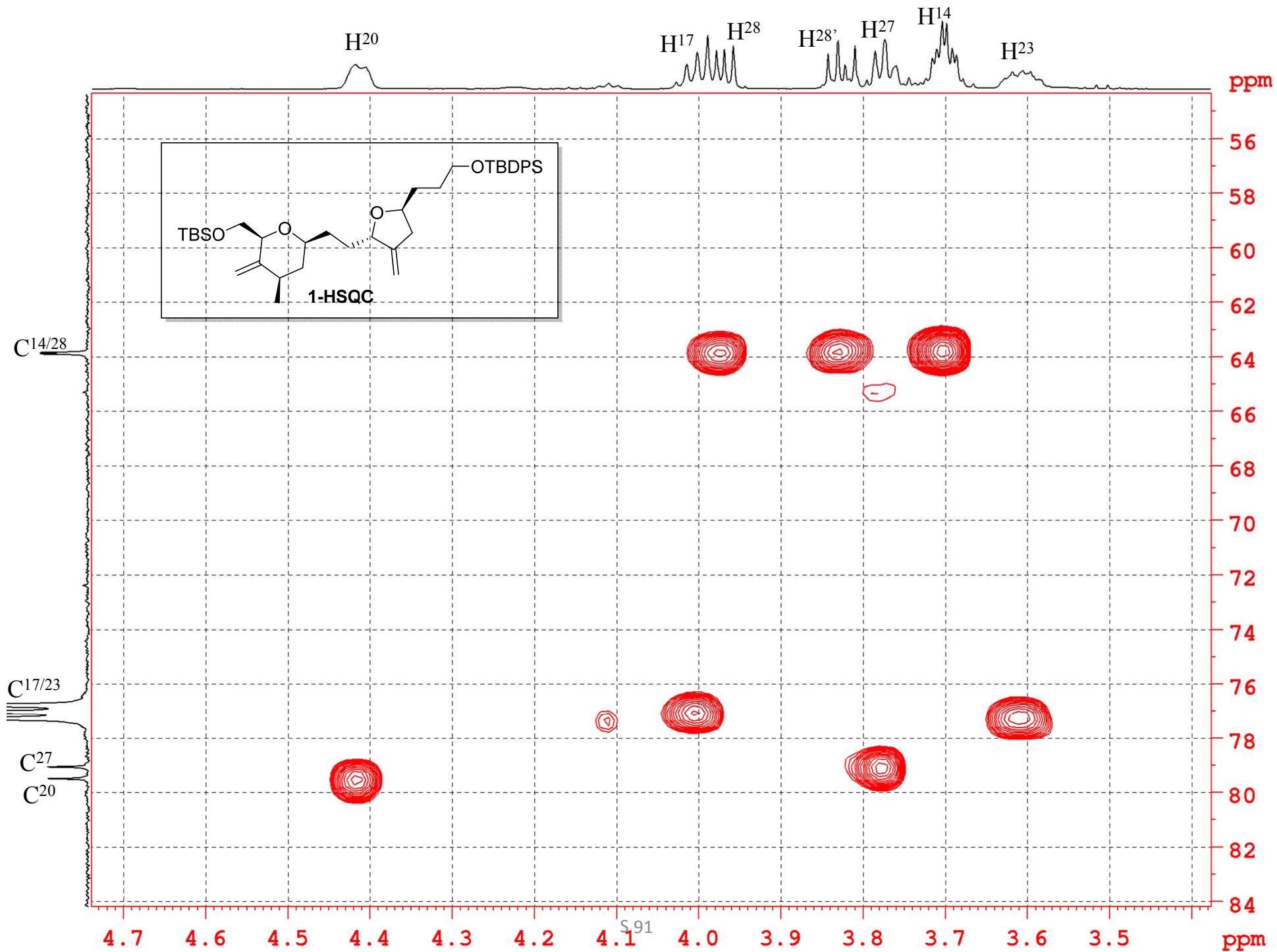


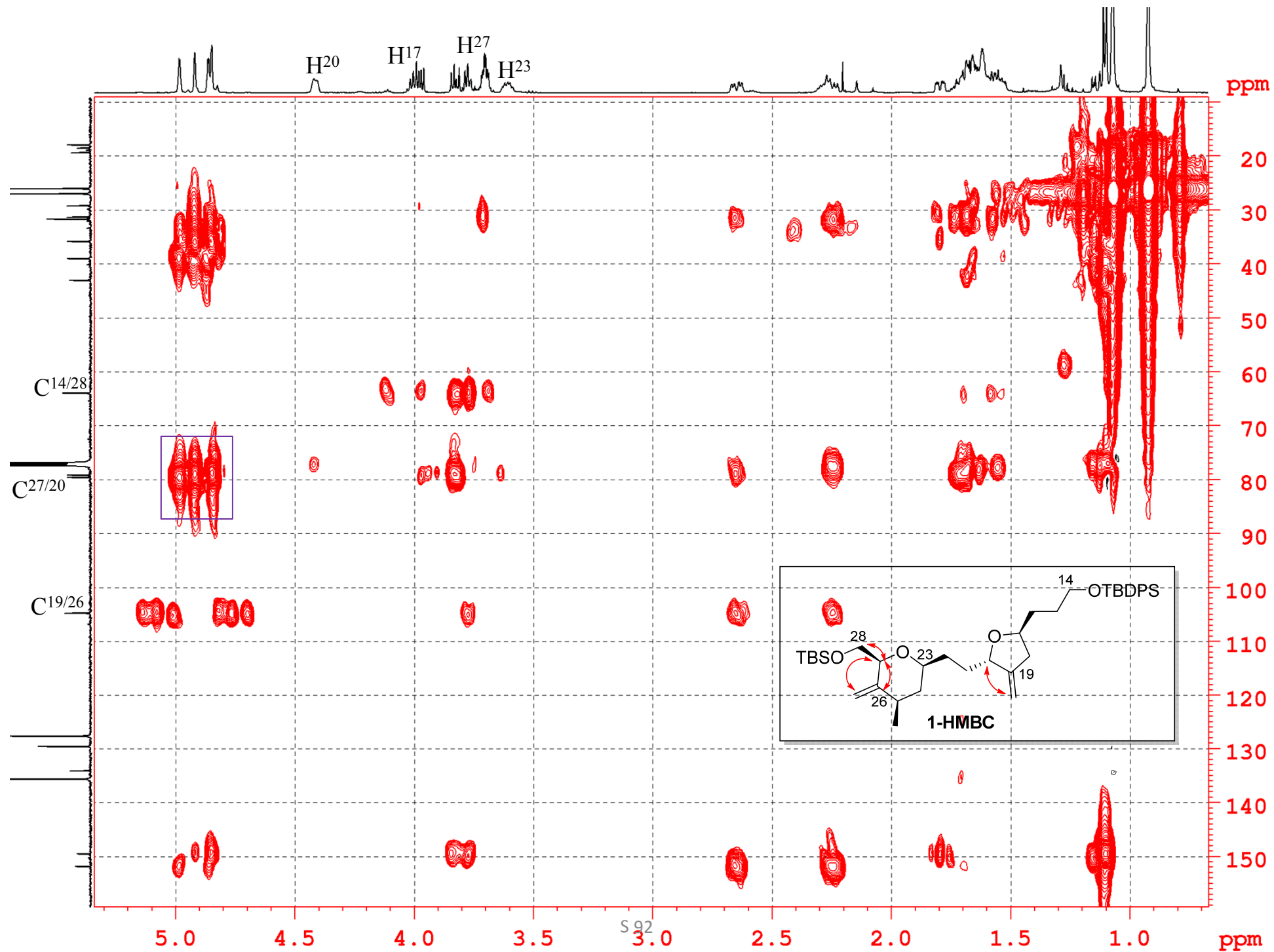




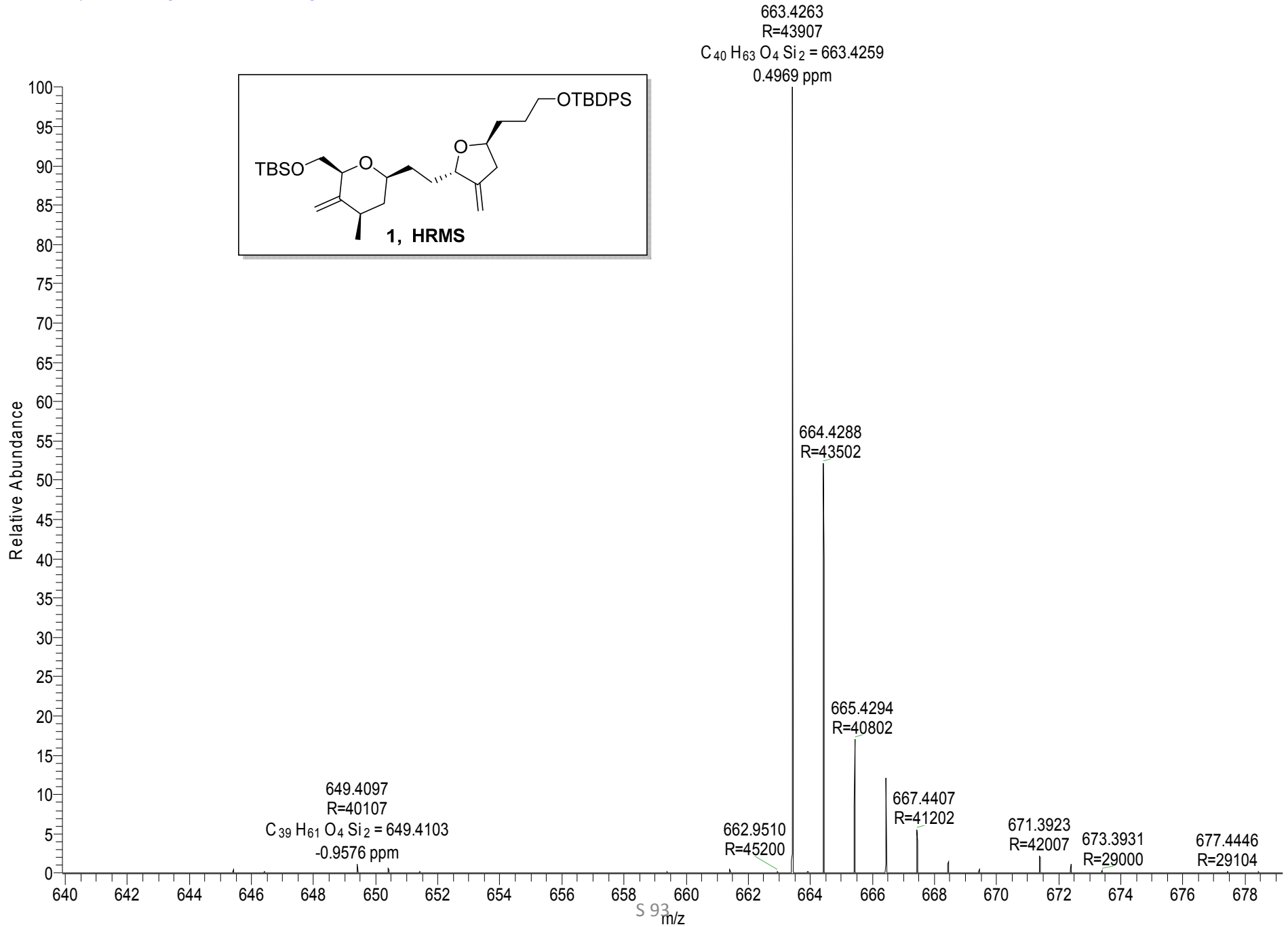
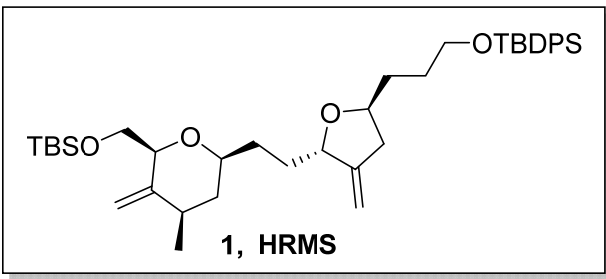


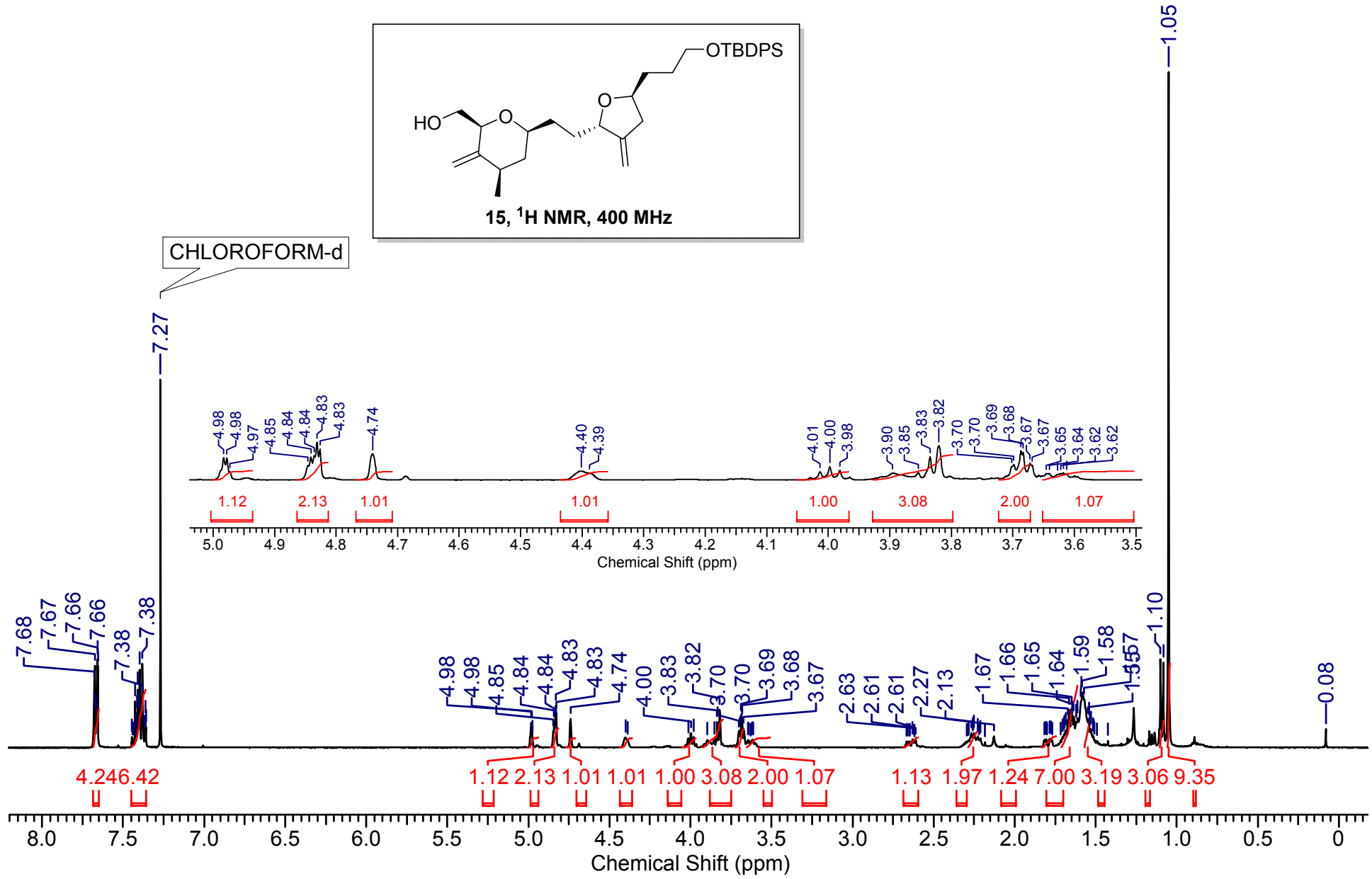
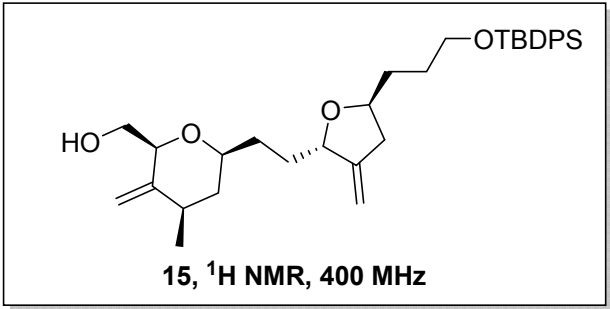


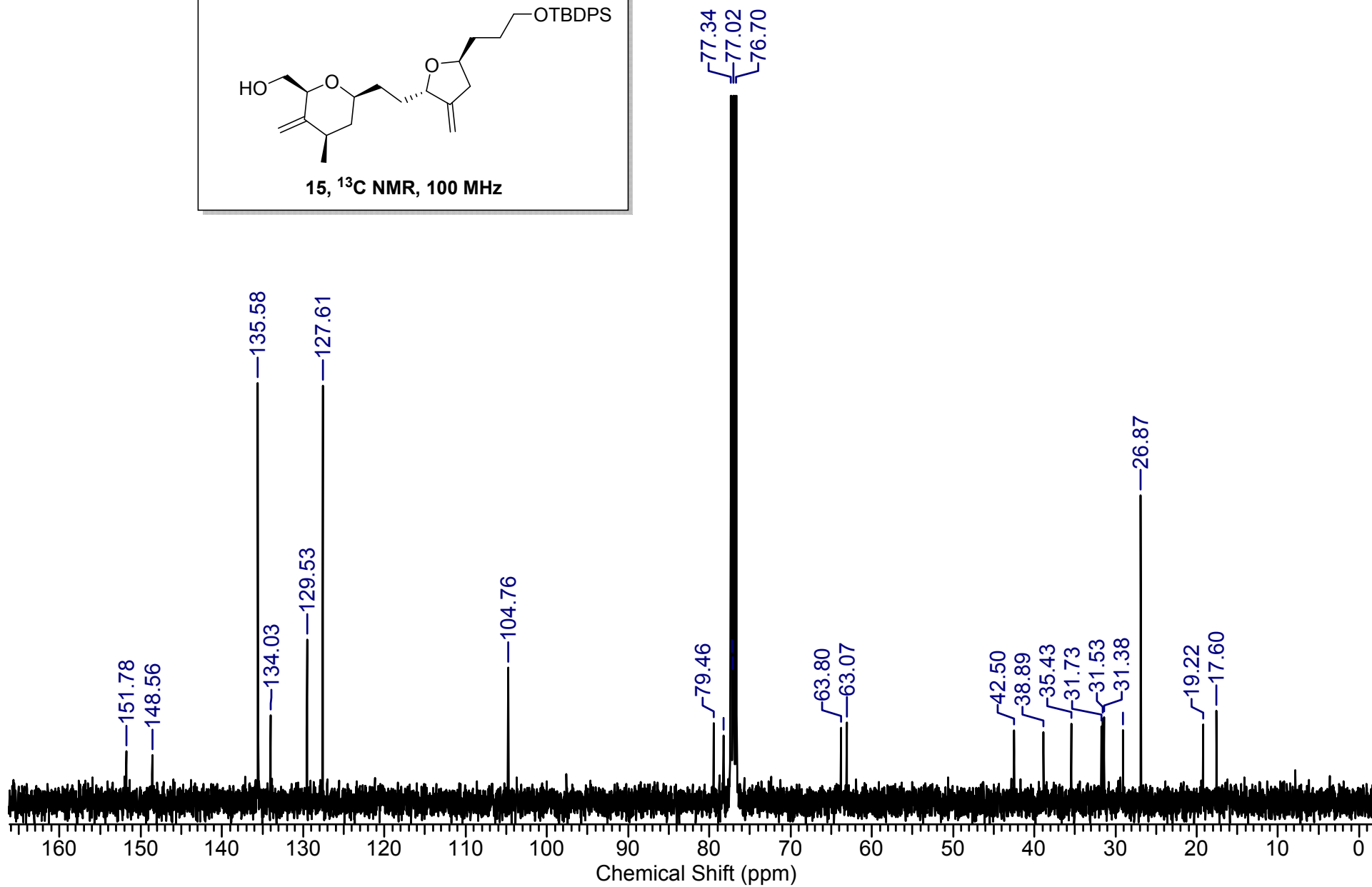
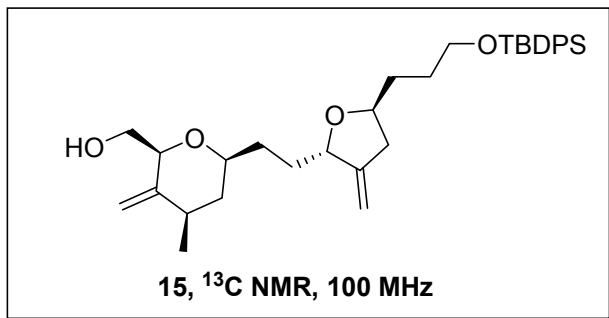


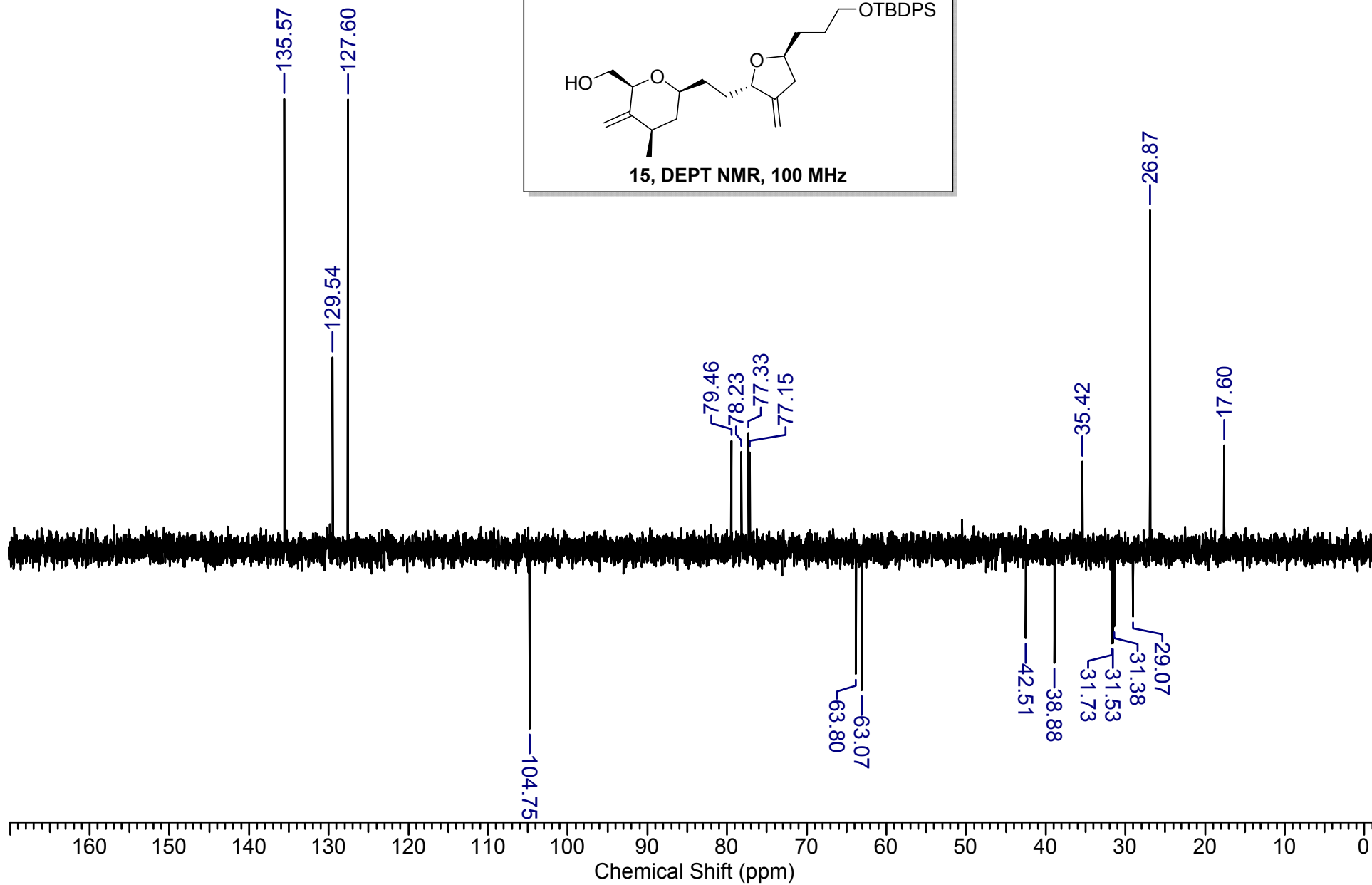
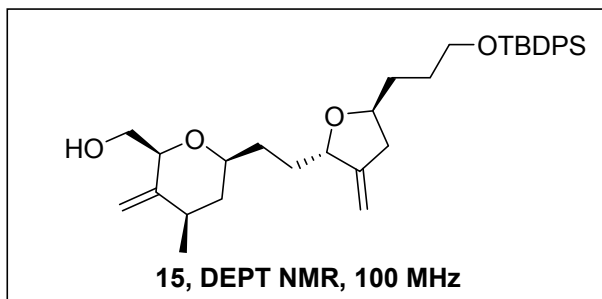


SS-631_190830215908 #686 RT: 3.70 AV: 1 NL: 9.03E7
T: FTMS + p ESI Full ms [100.0000-1500.0000]









SS-8 #1295 RT: 7.21 AV: 1 NL: 1.91E8
T: FTMS + p ESI Full ms [100.0000-1500.0000]

