

## **SUPPORTING INFORMATION**

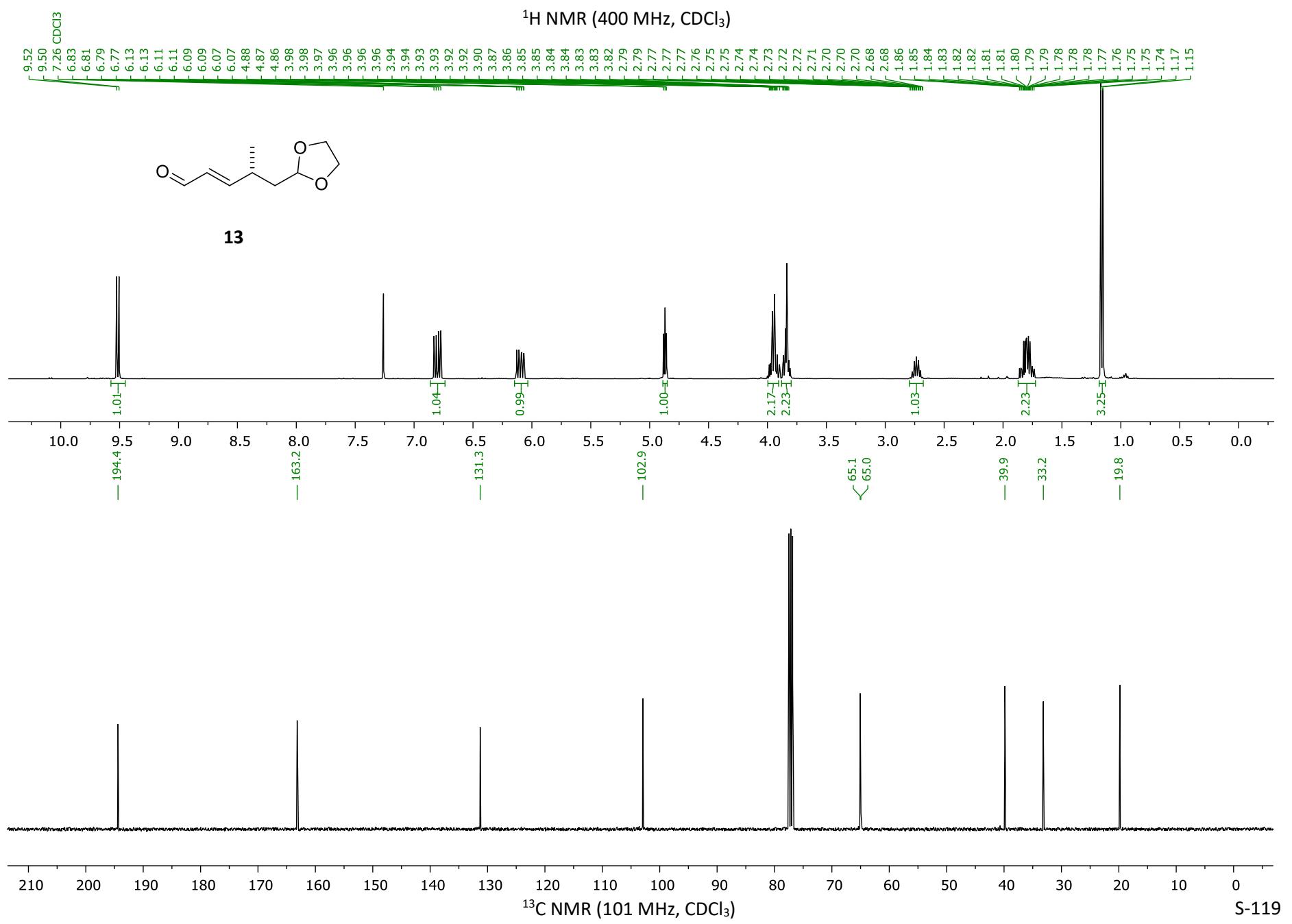
### **Chagosensine: A Riddle Wrapped in a Mystery Inside an Enigma**

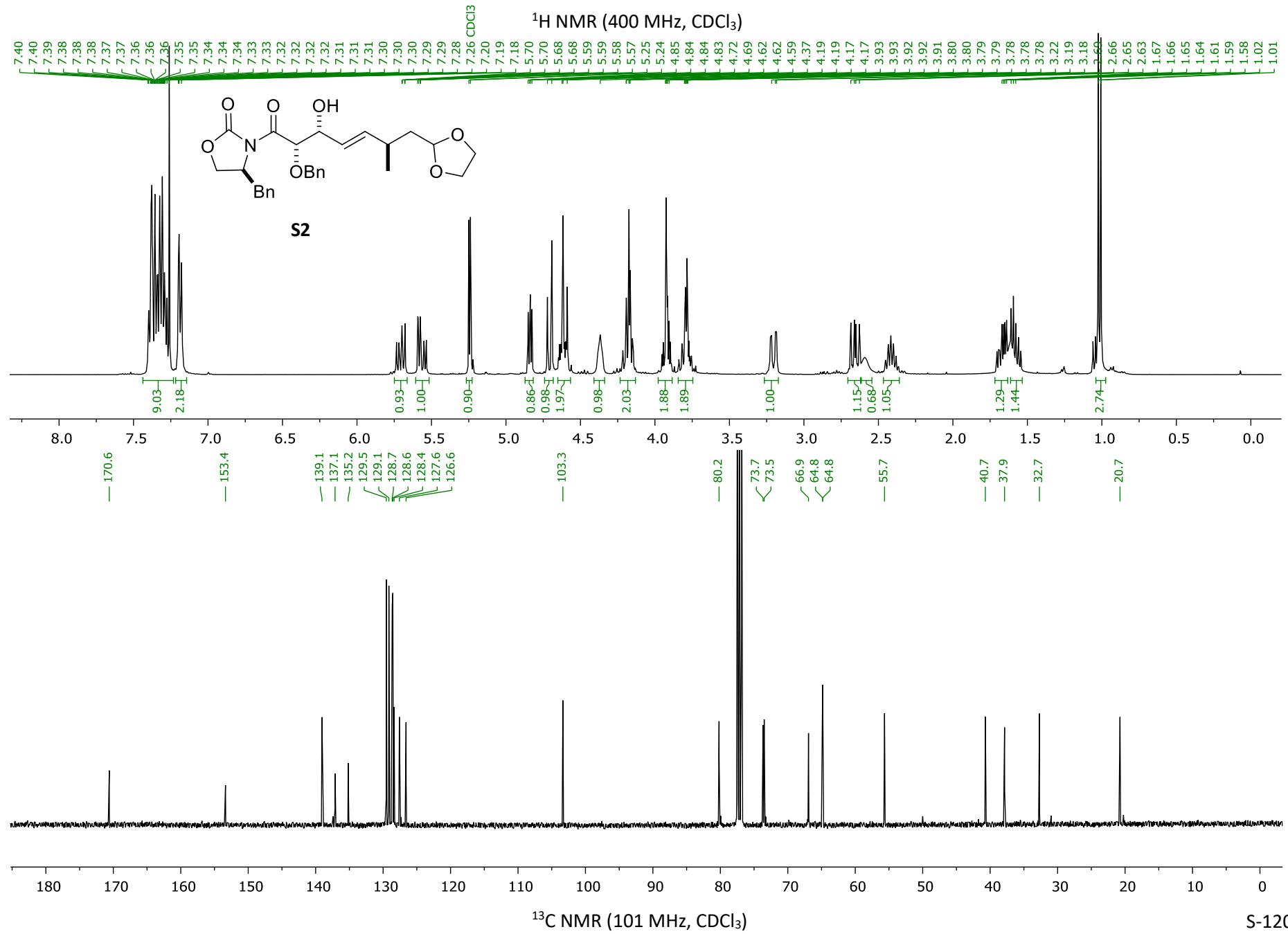
Marc Heinrich,<sup>†</sup> John J. Murphy,<sup>†</sup> Marina K. Ilg, Aurélien Letort, Jakub T. Flasz, Petra Philipps,  
and Alois Fürstner\*

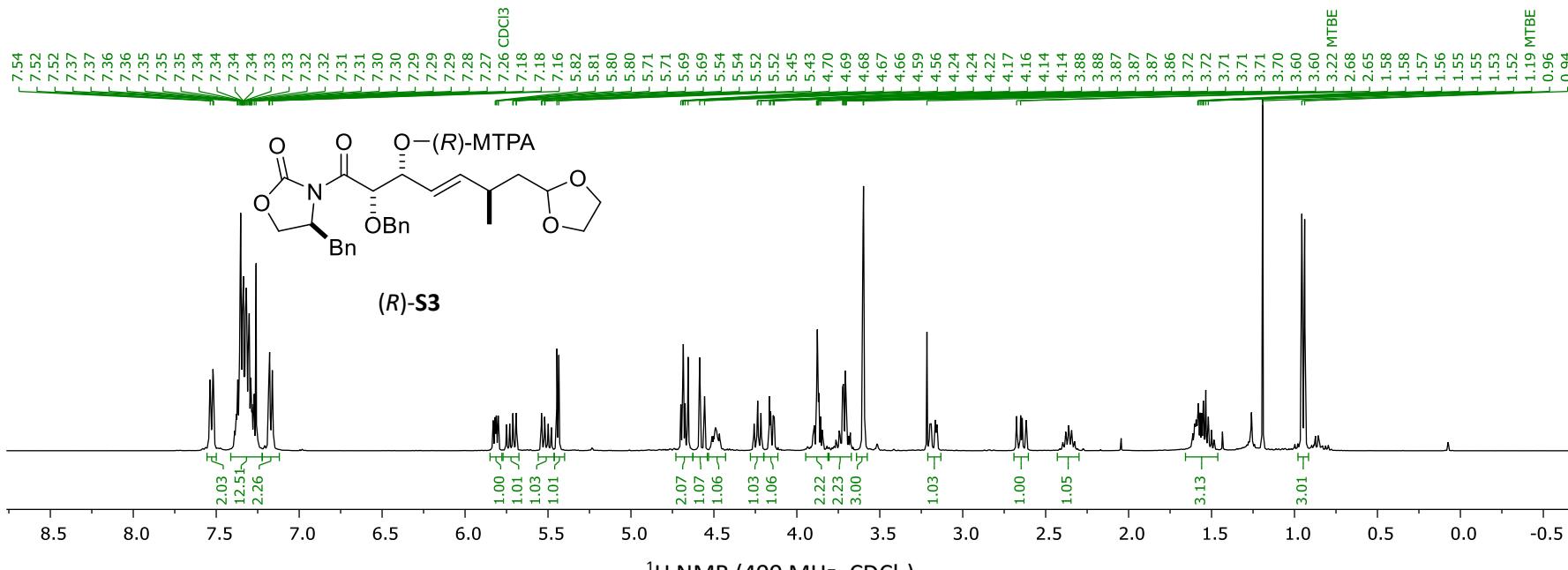
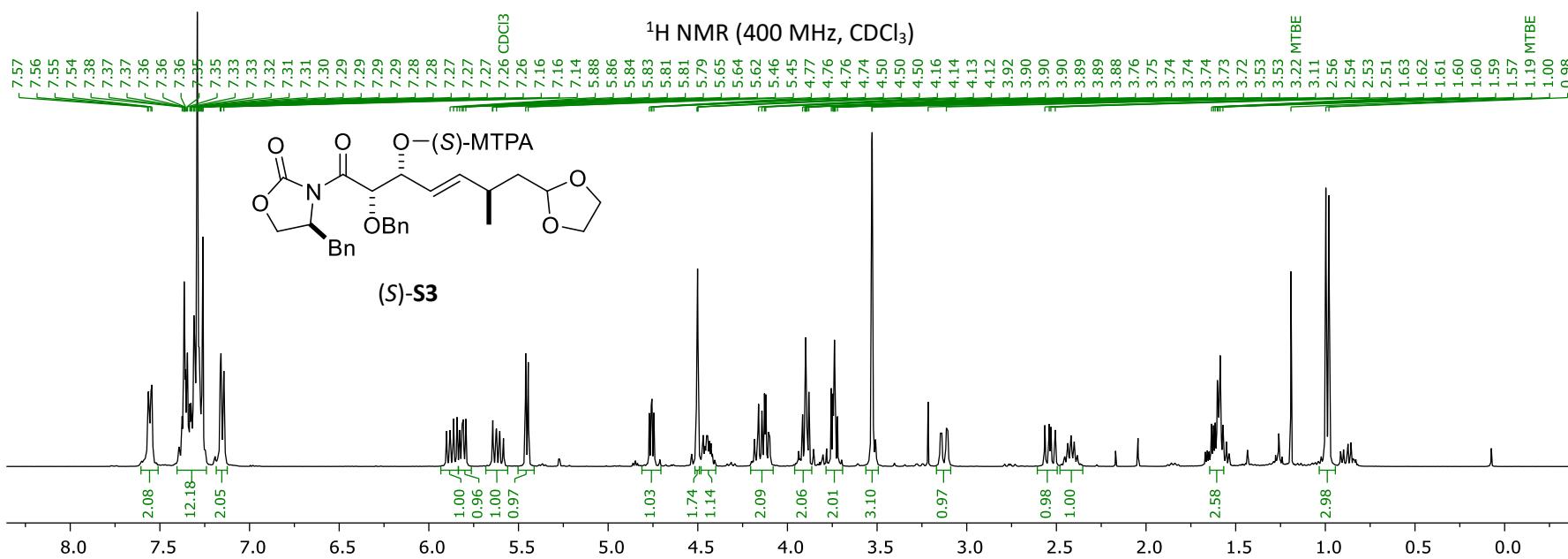
*Max-Planck-Institut für Kohlenforschung, D-45470 Mülheim/Ruhr, Germany*

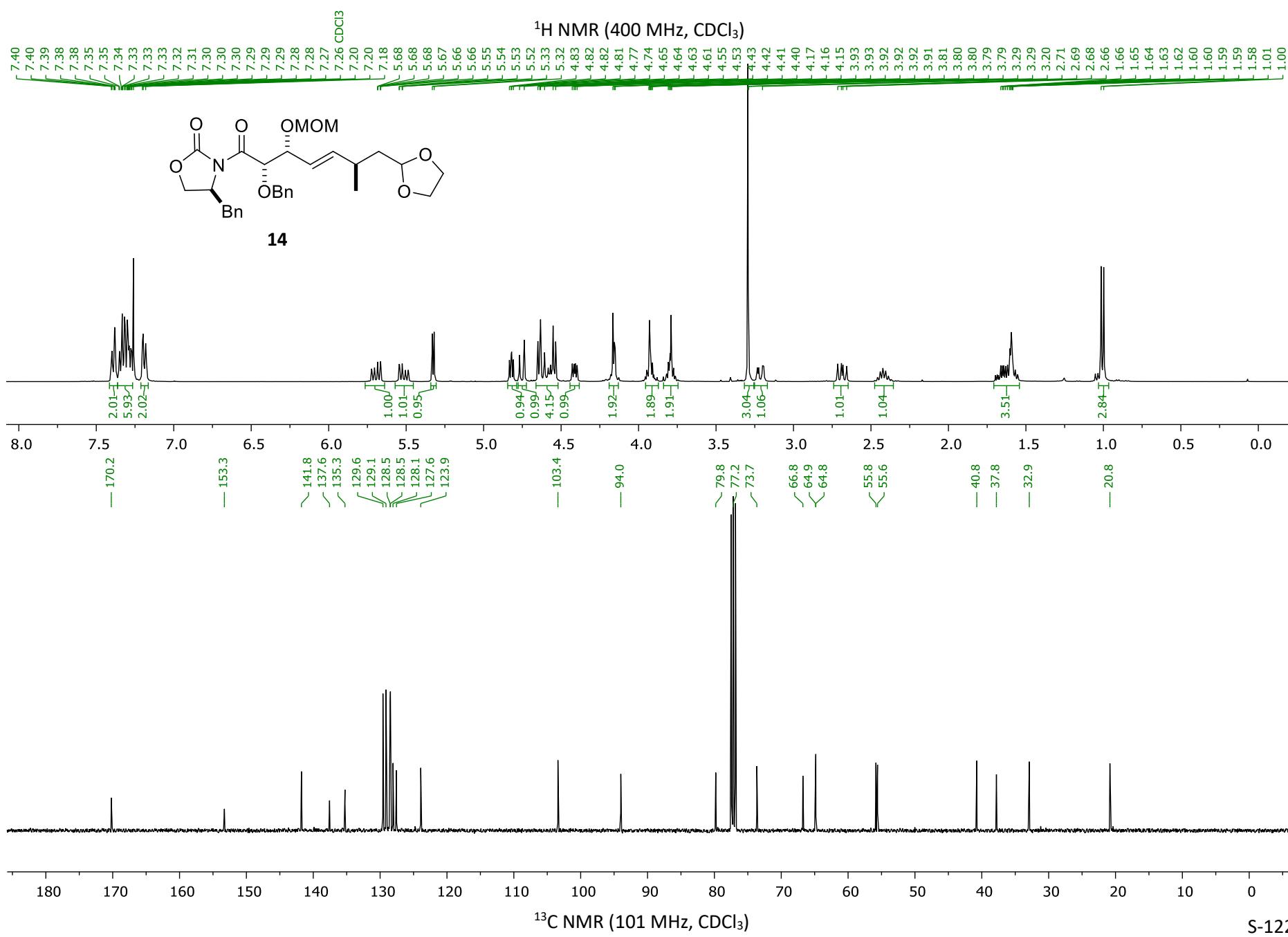
*Email: fuerstner@kofo.mpg.de*

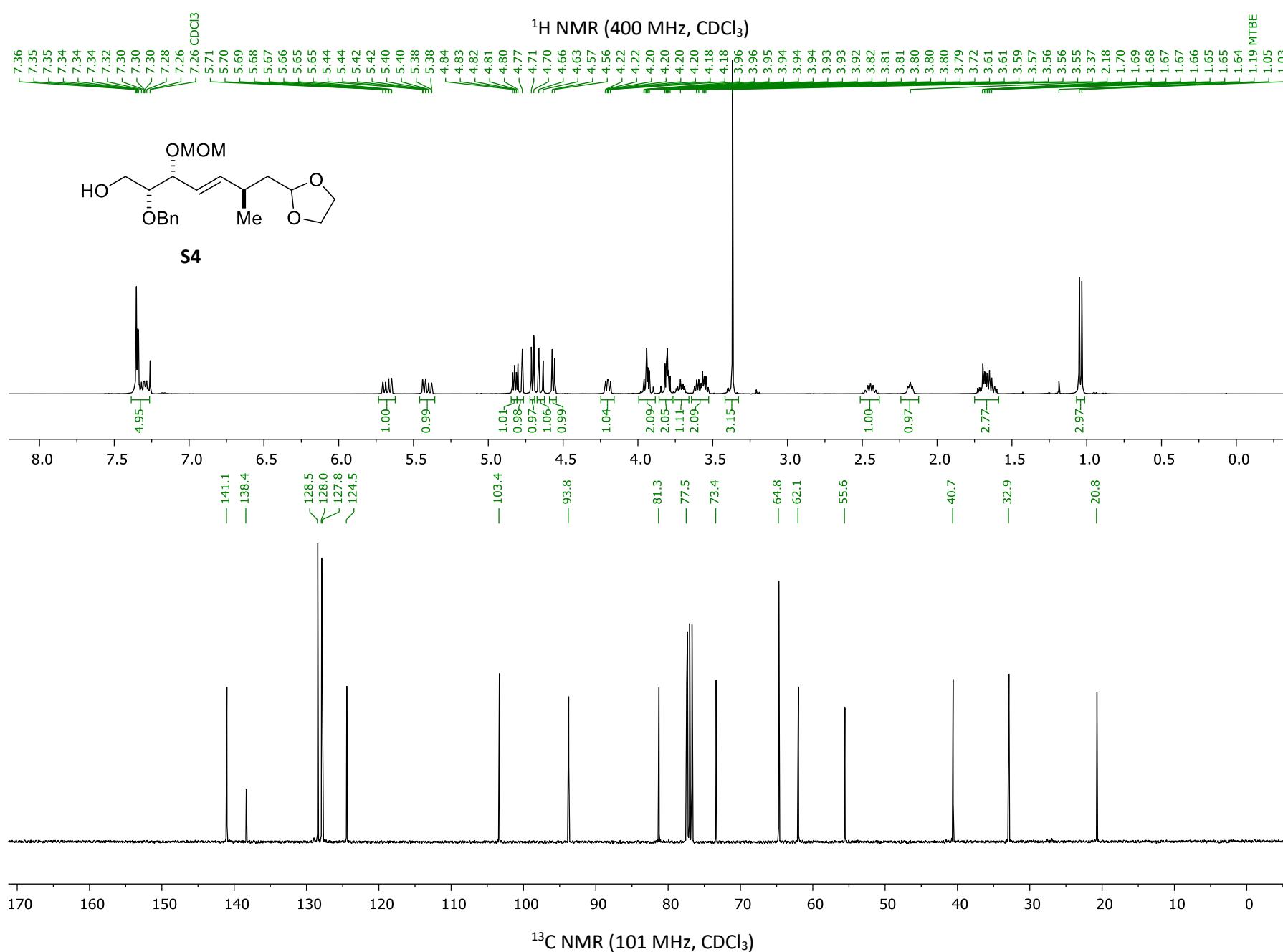
### **COPIES OF NMR SPECTRA**

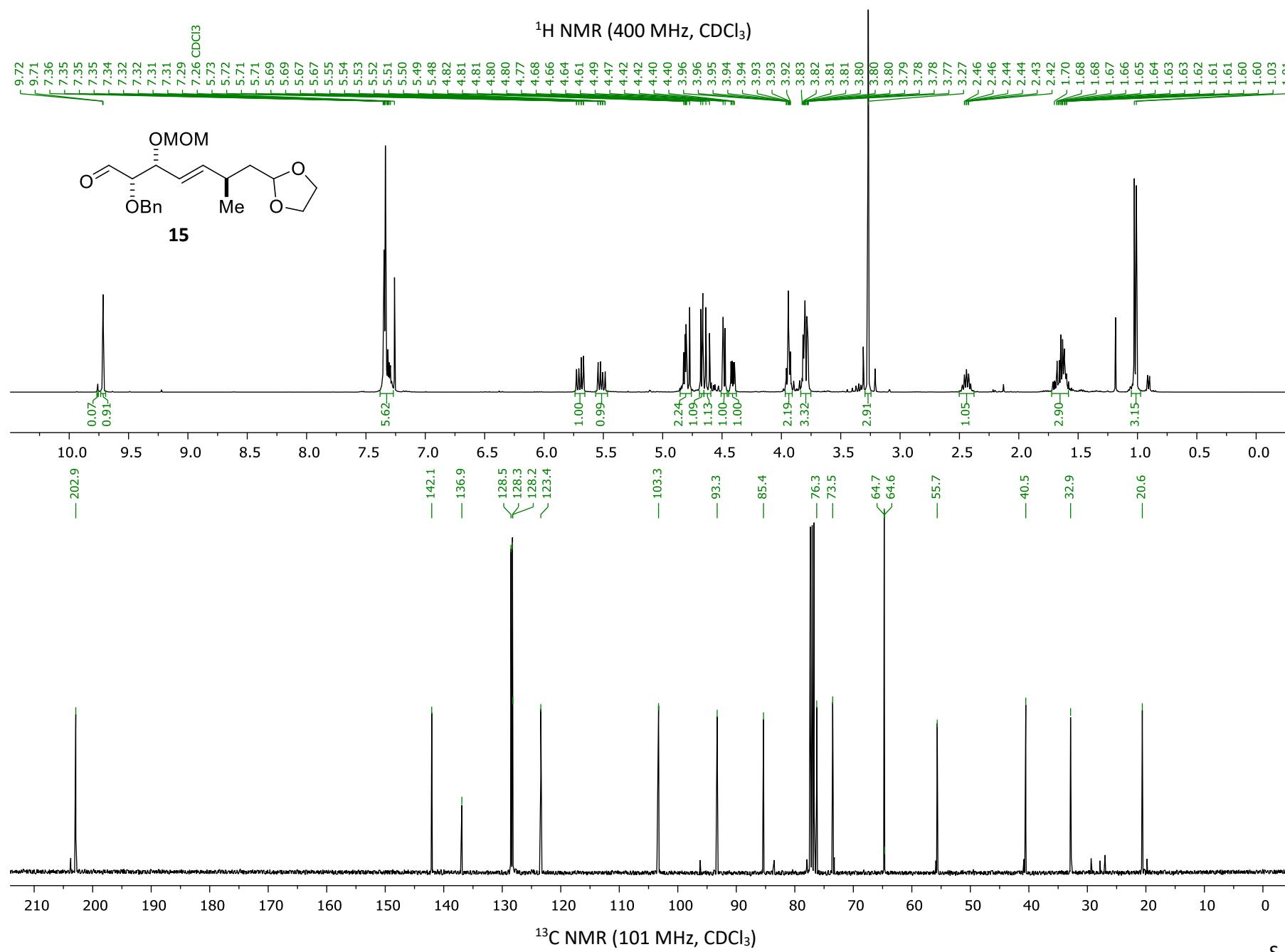


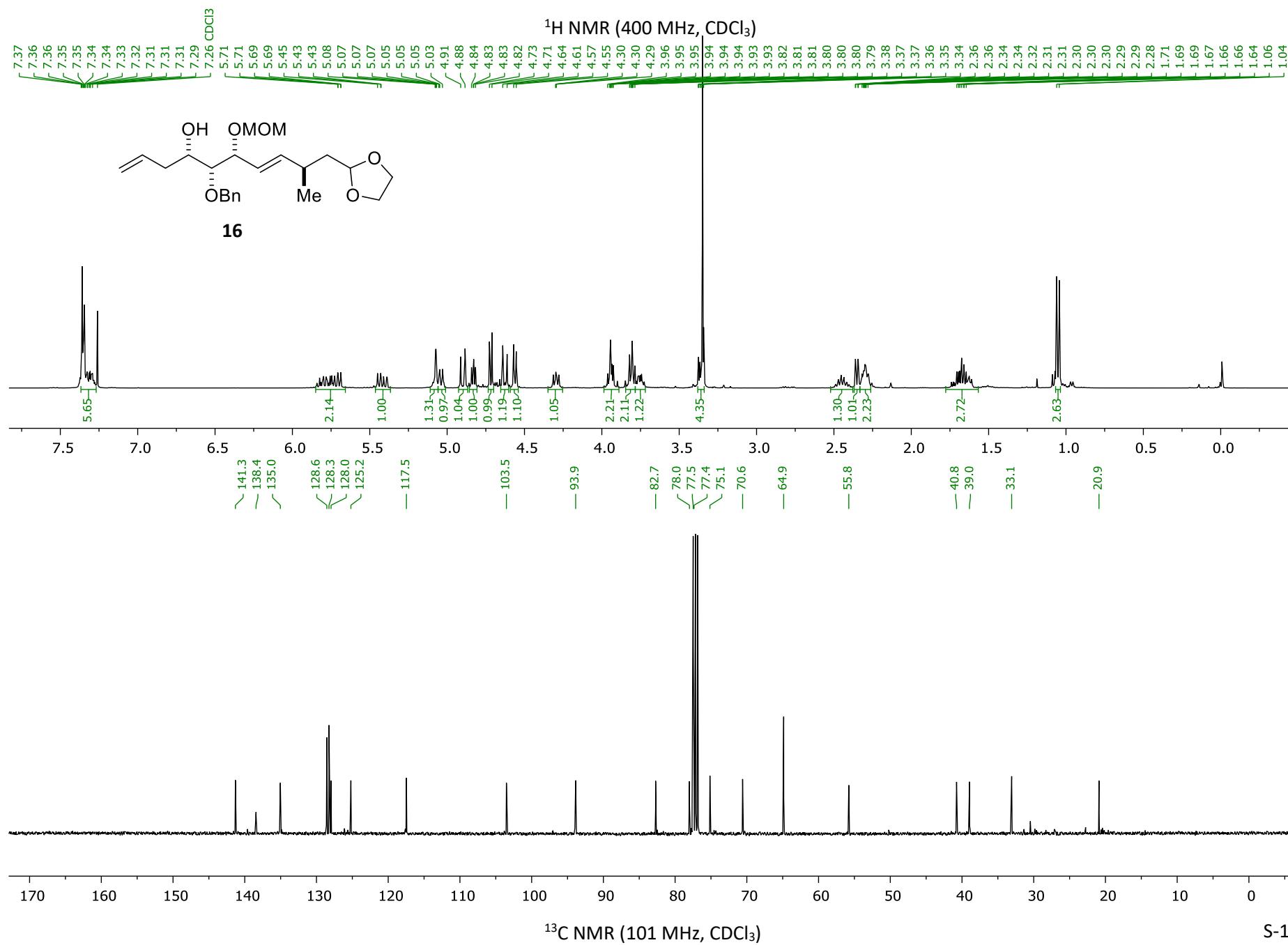


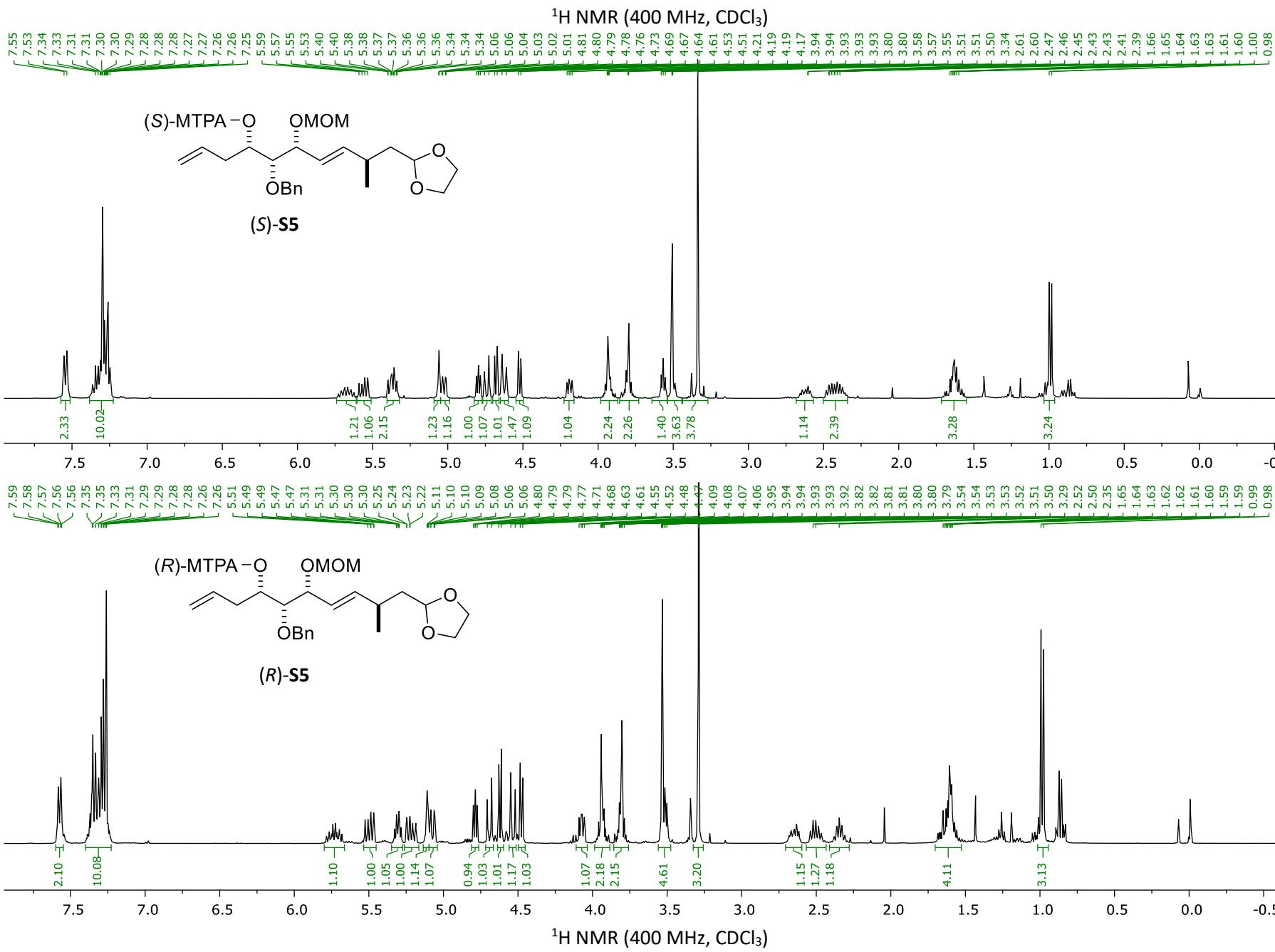


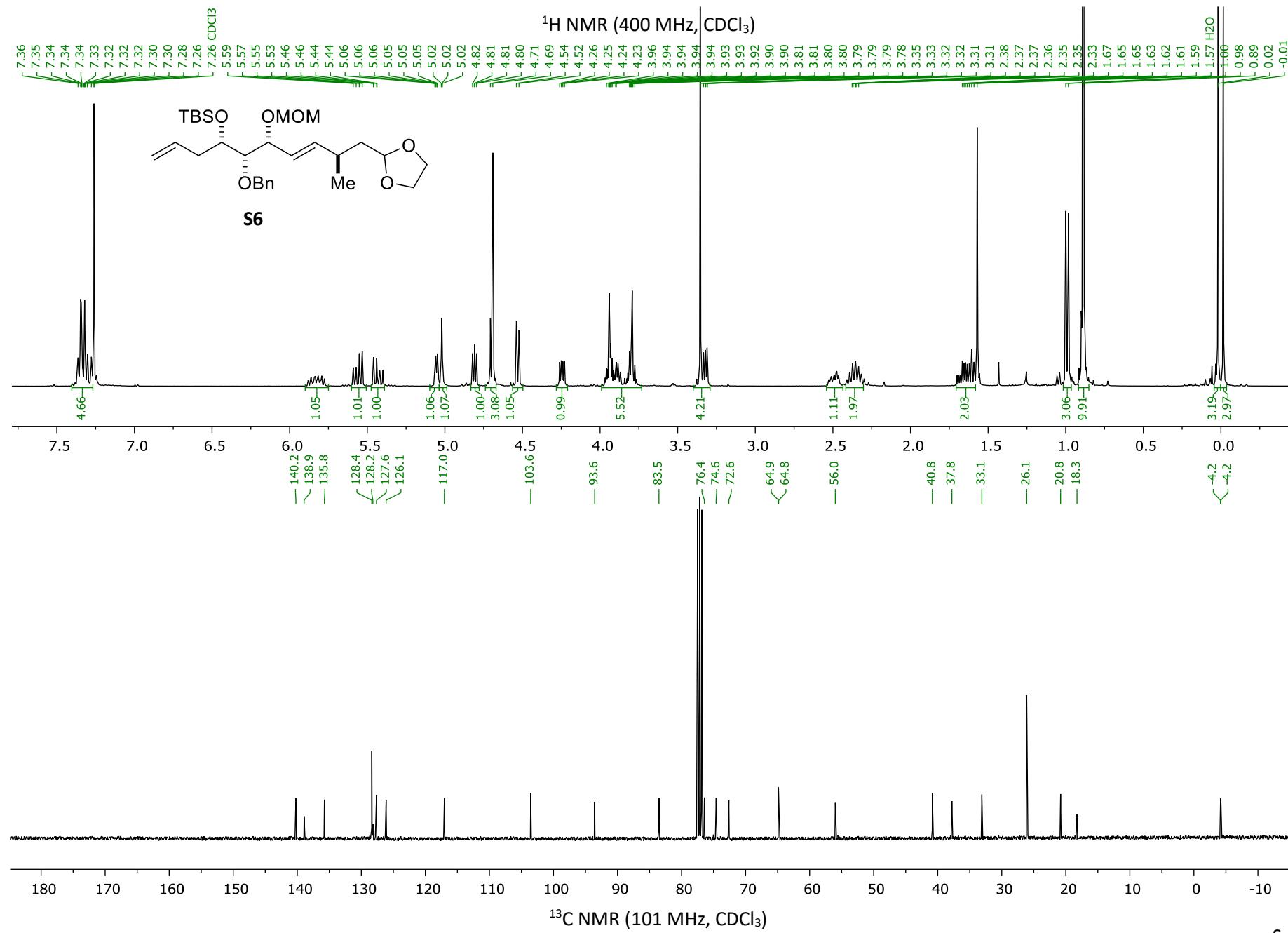


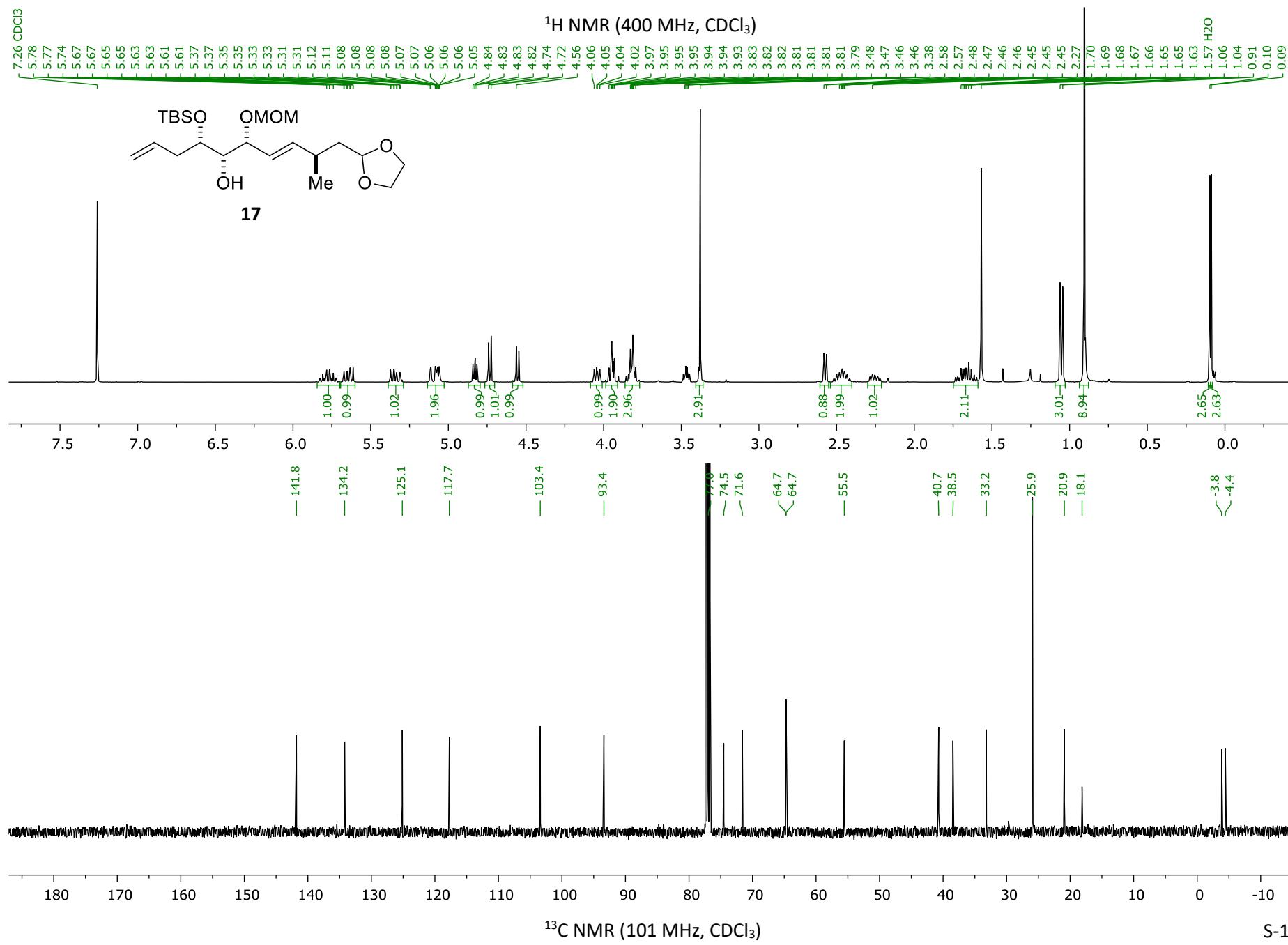


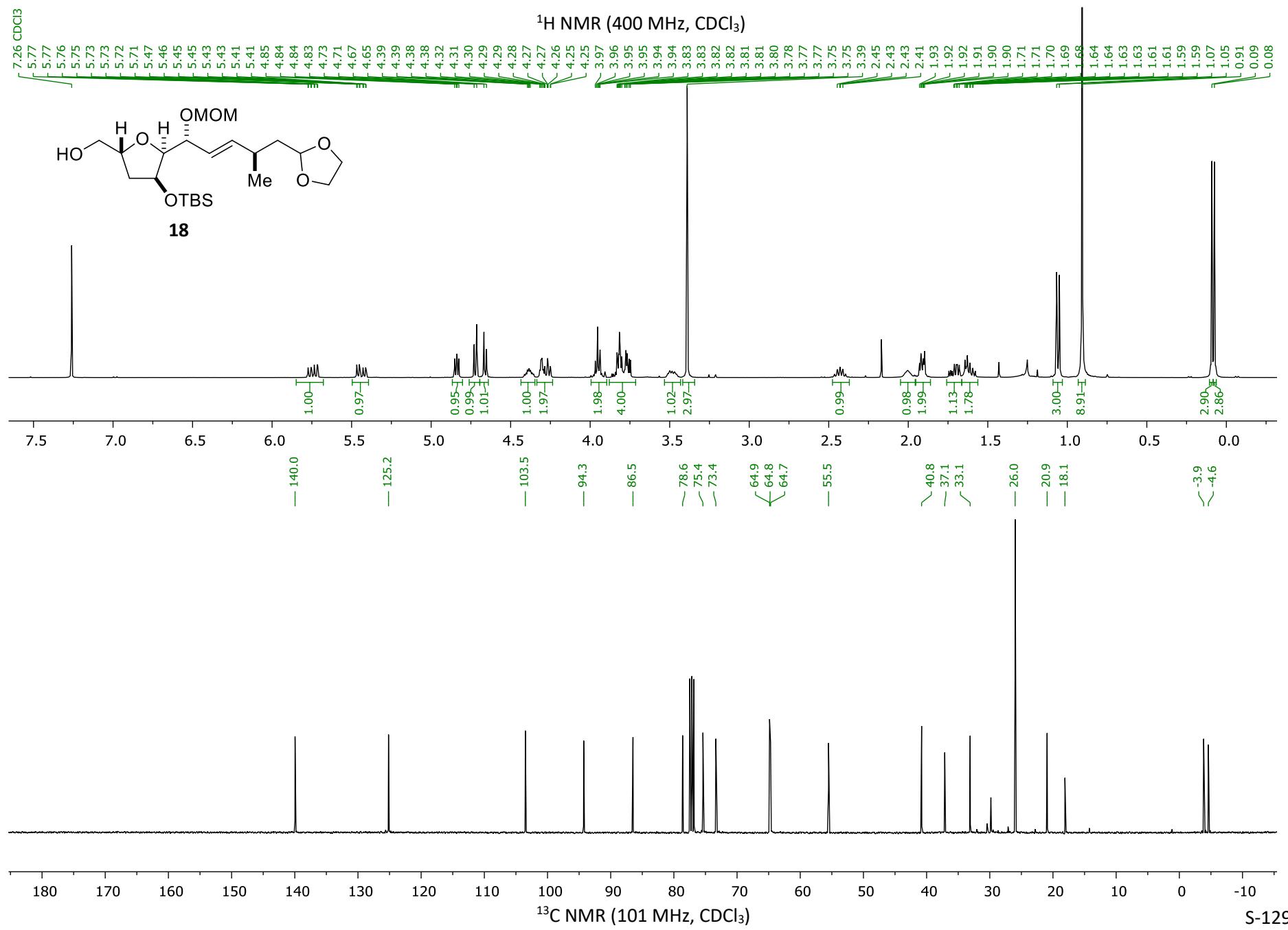


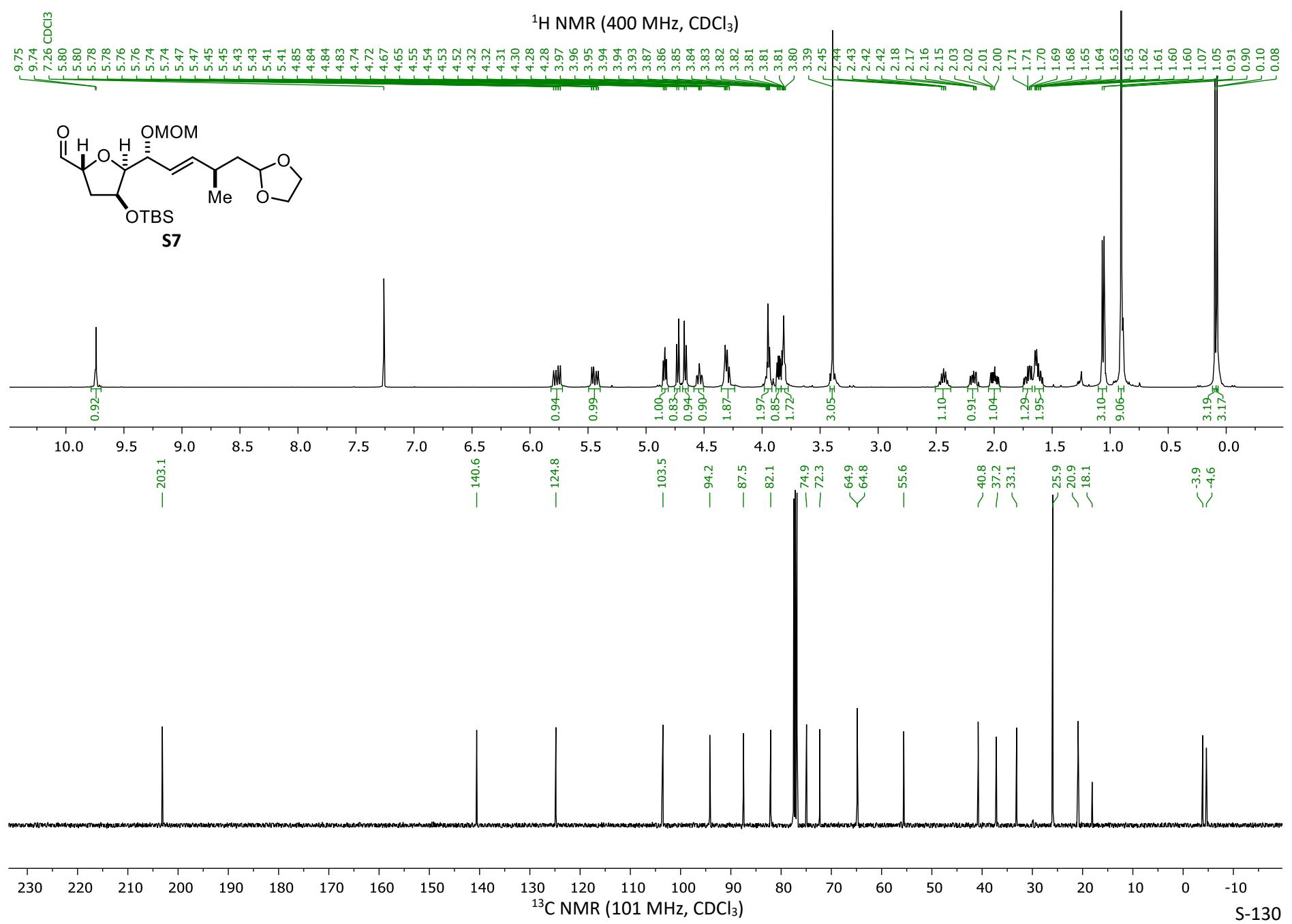


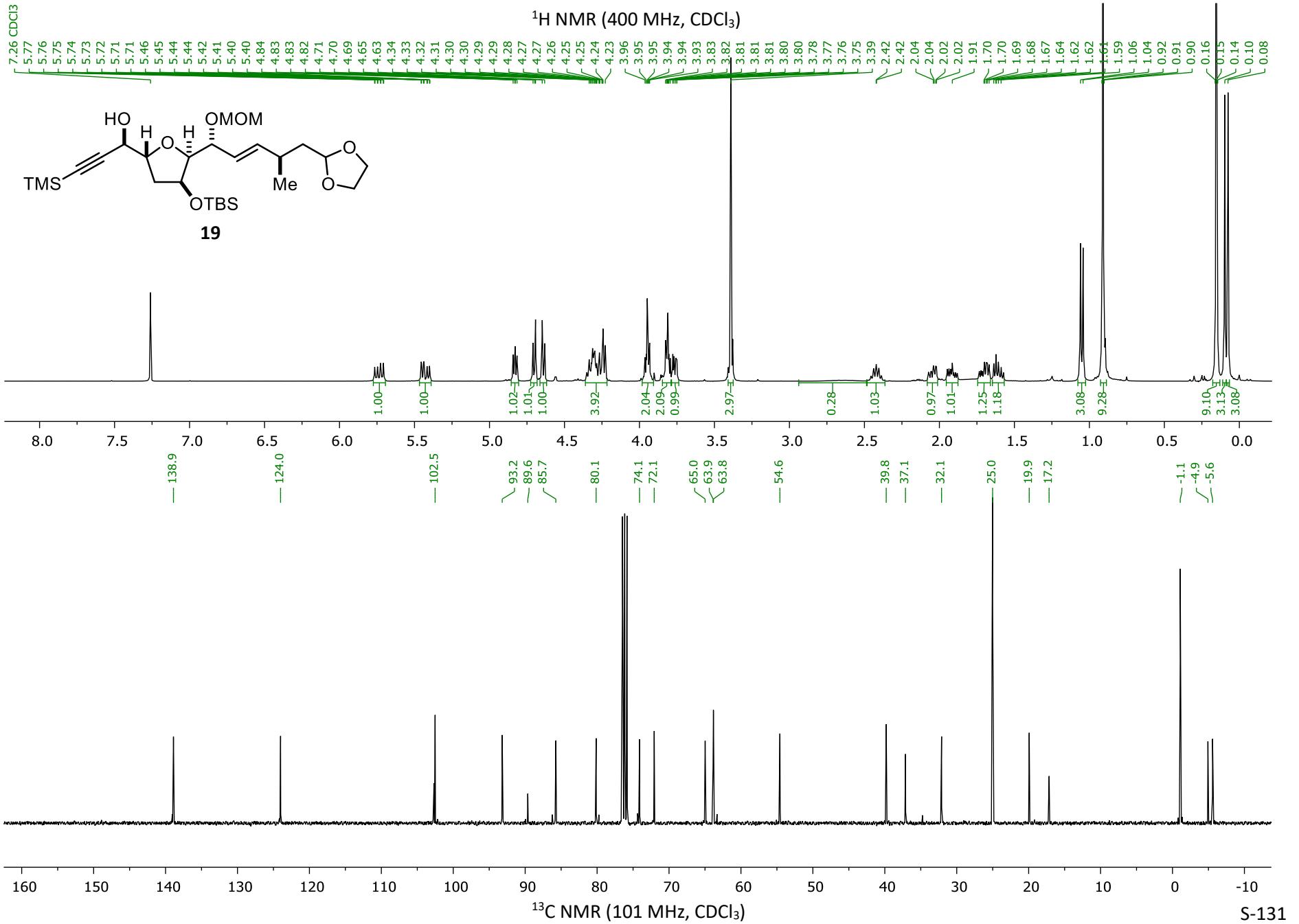


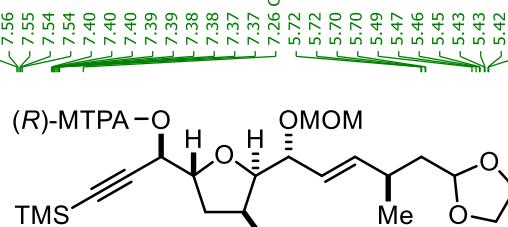
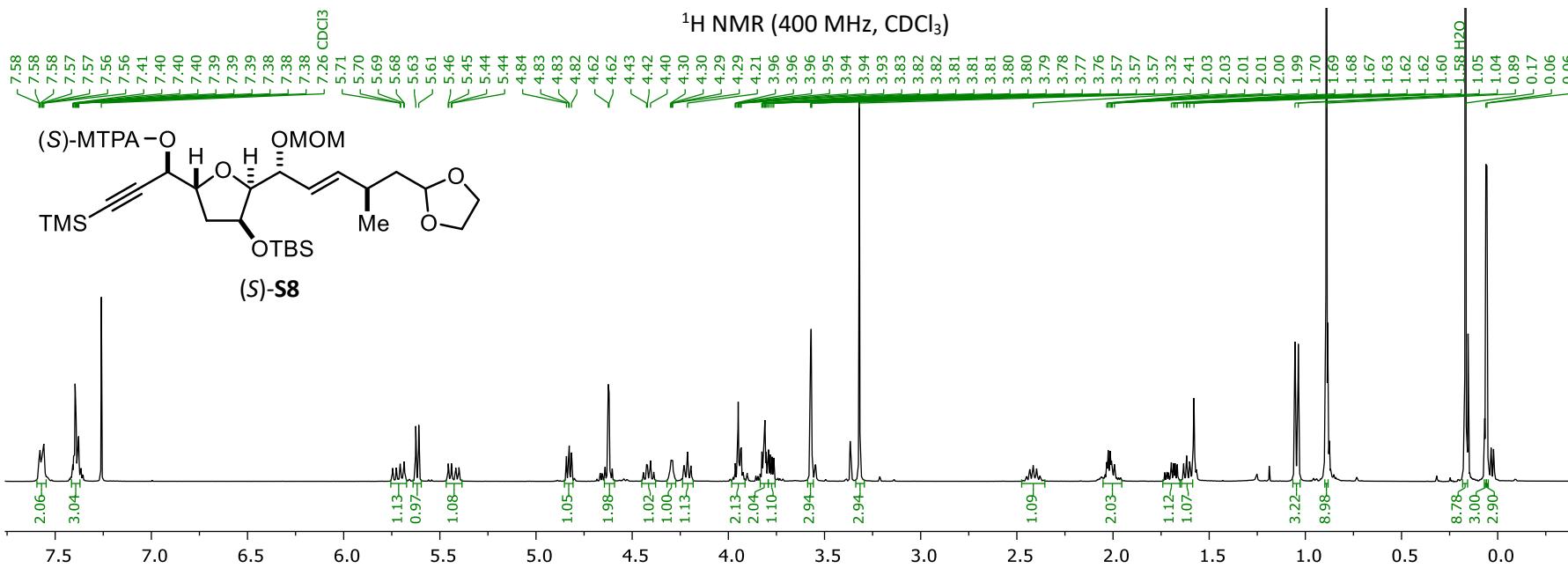




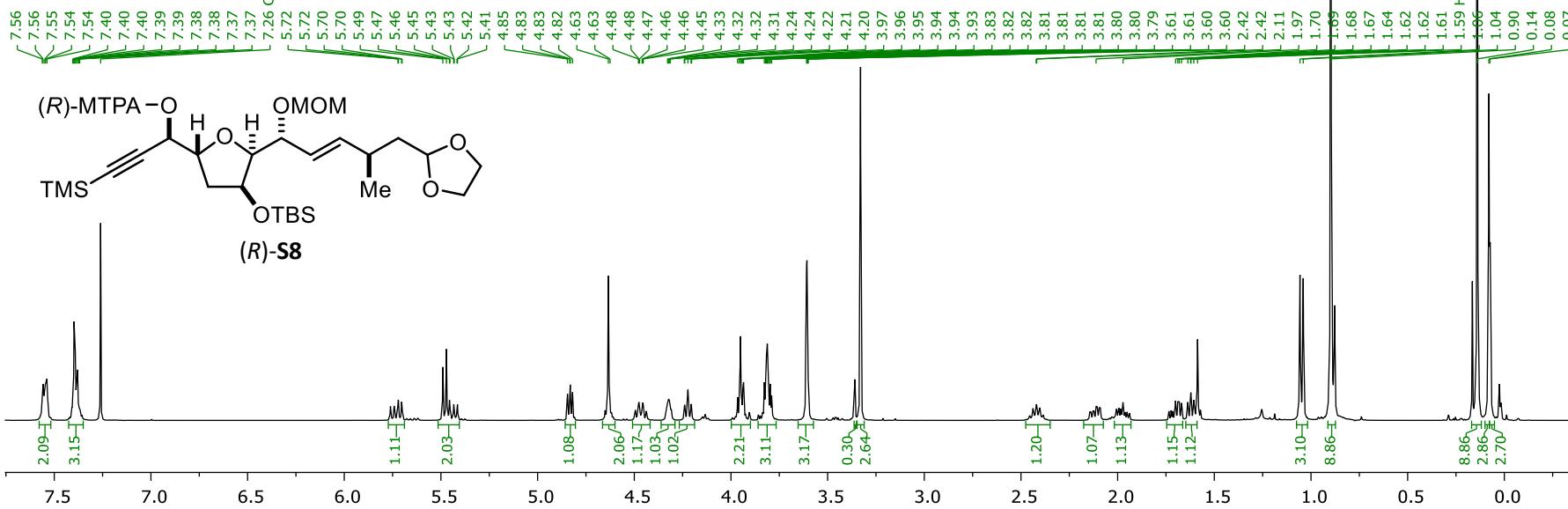




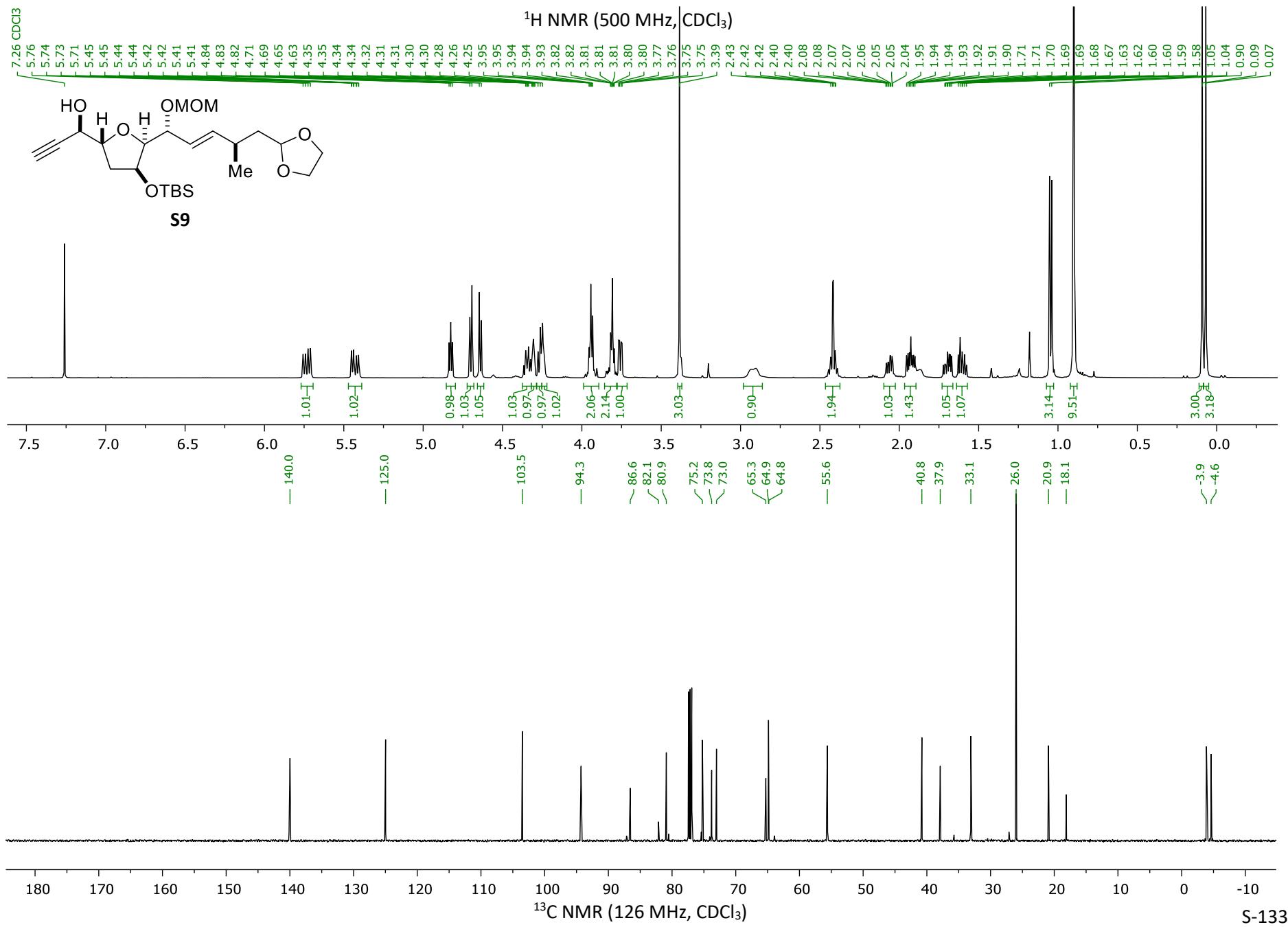


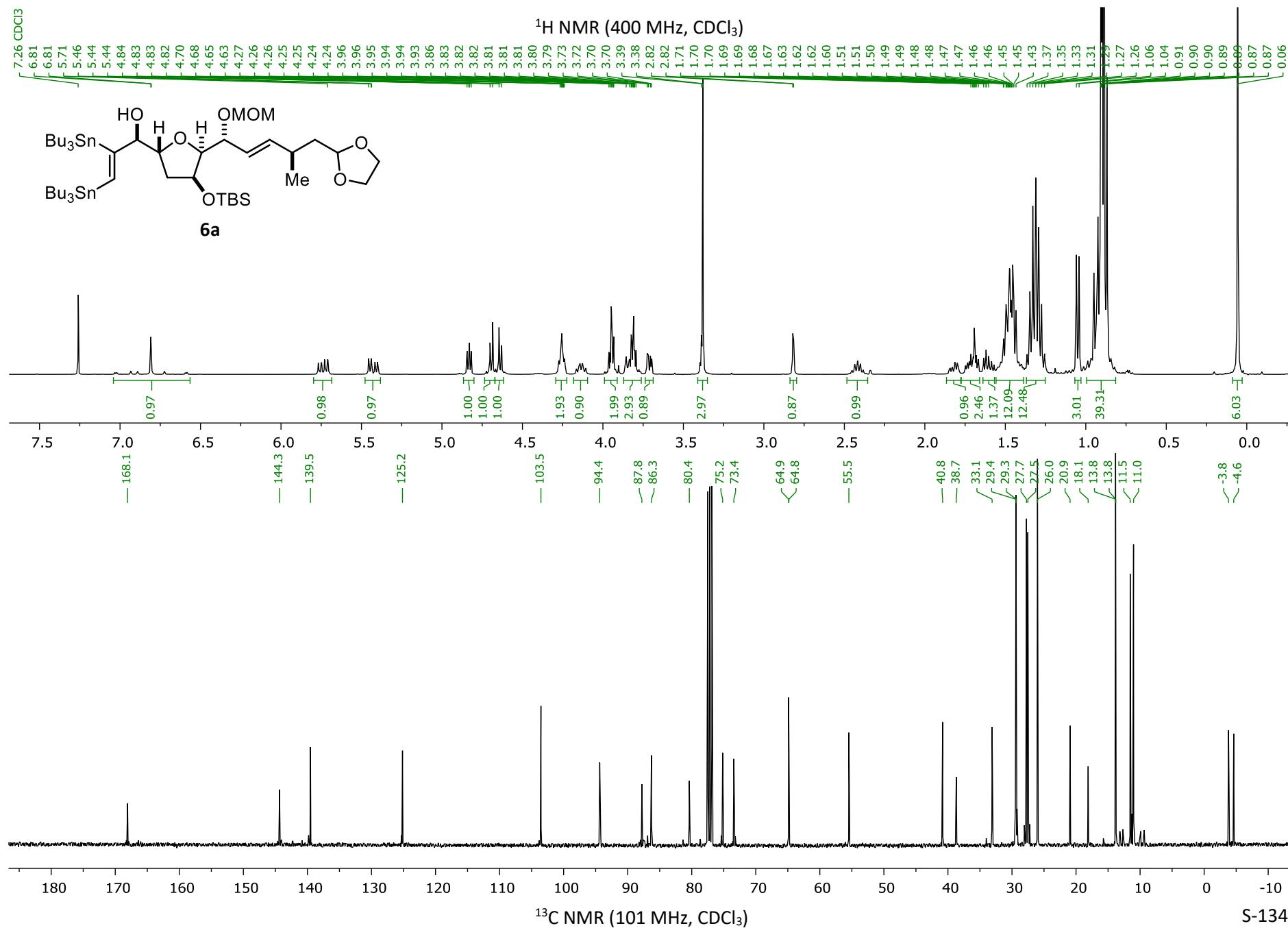


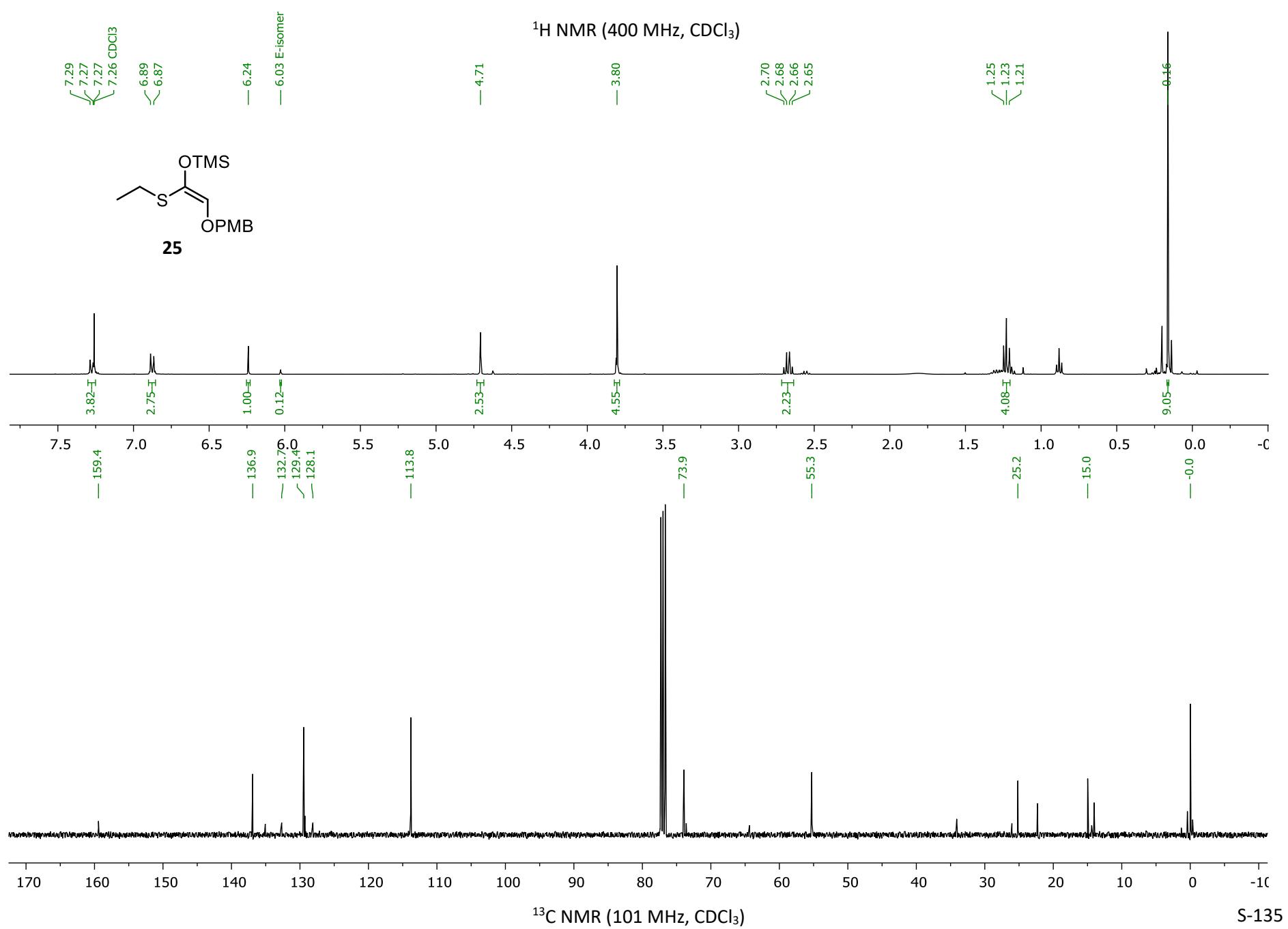
(R)-S8

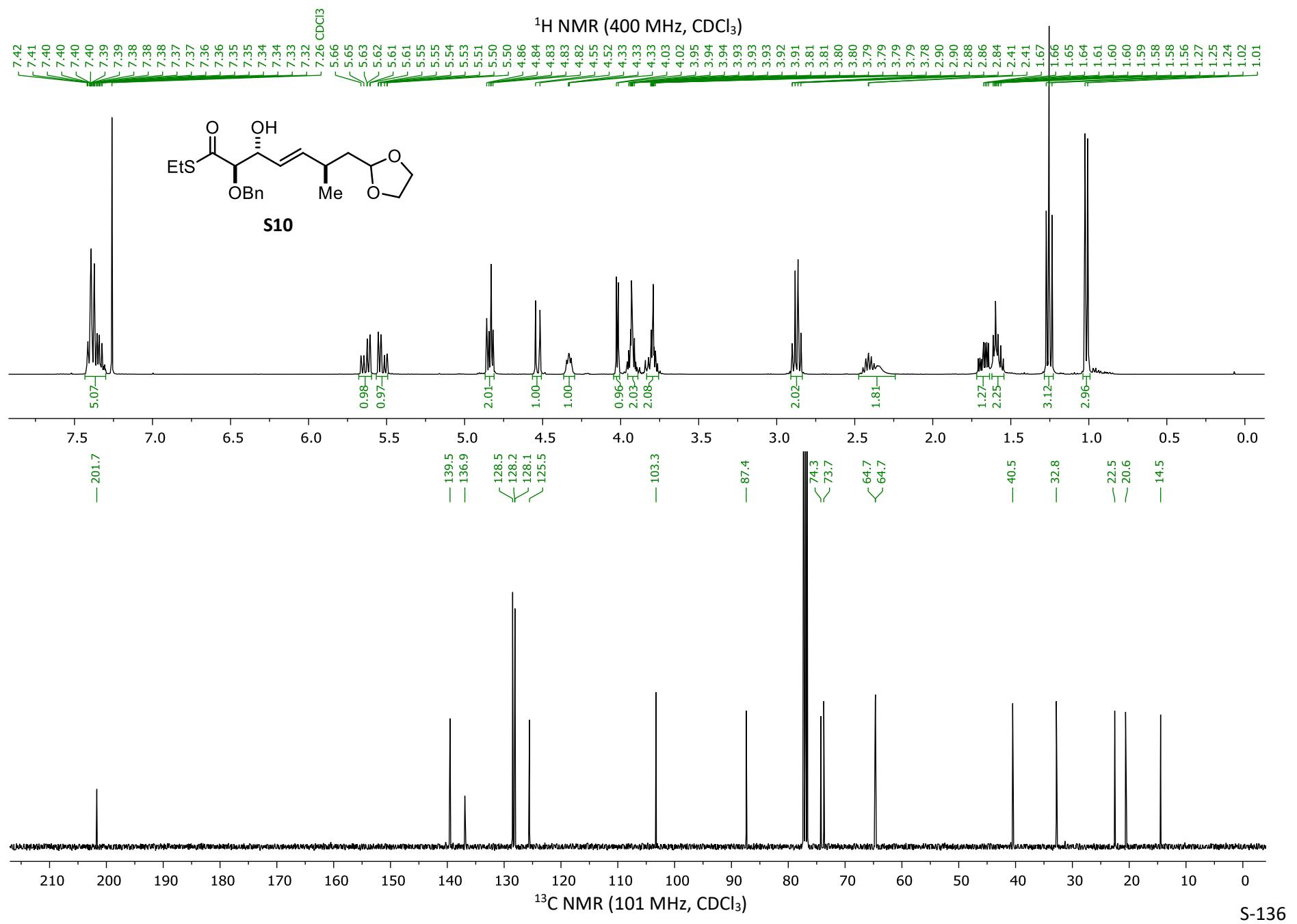


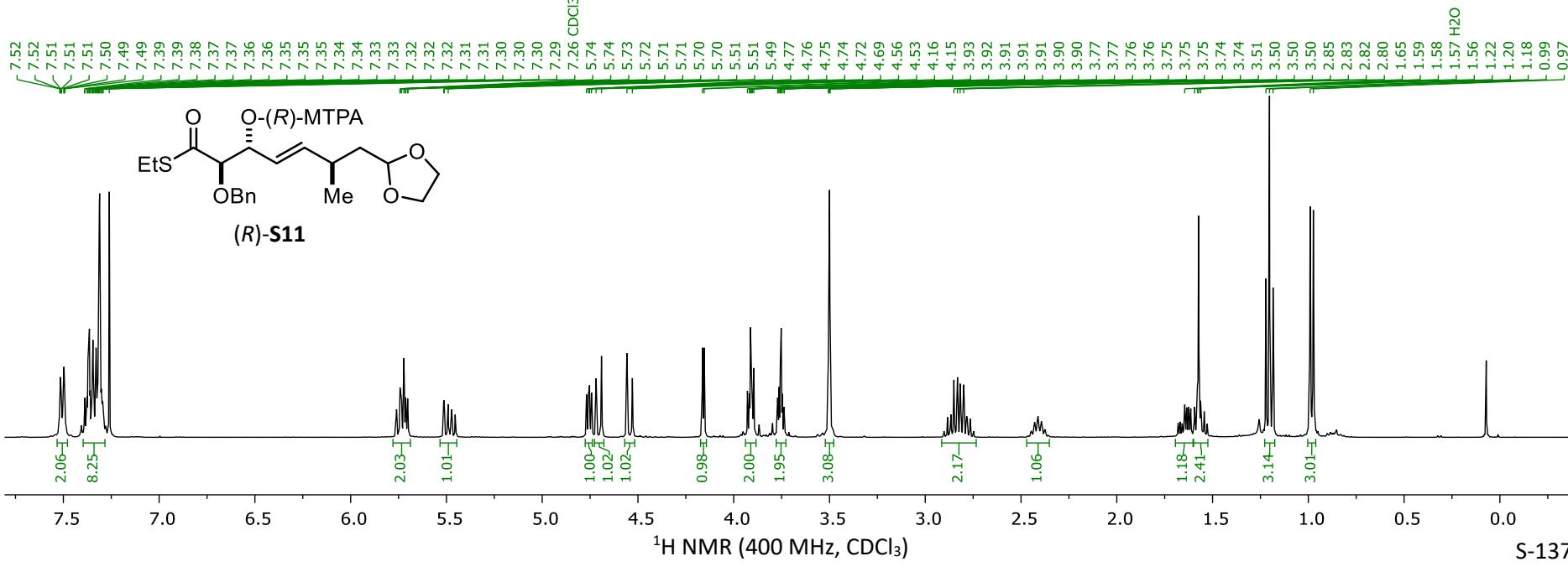
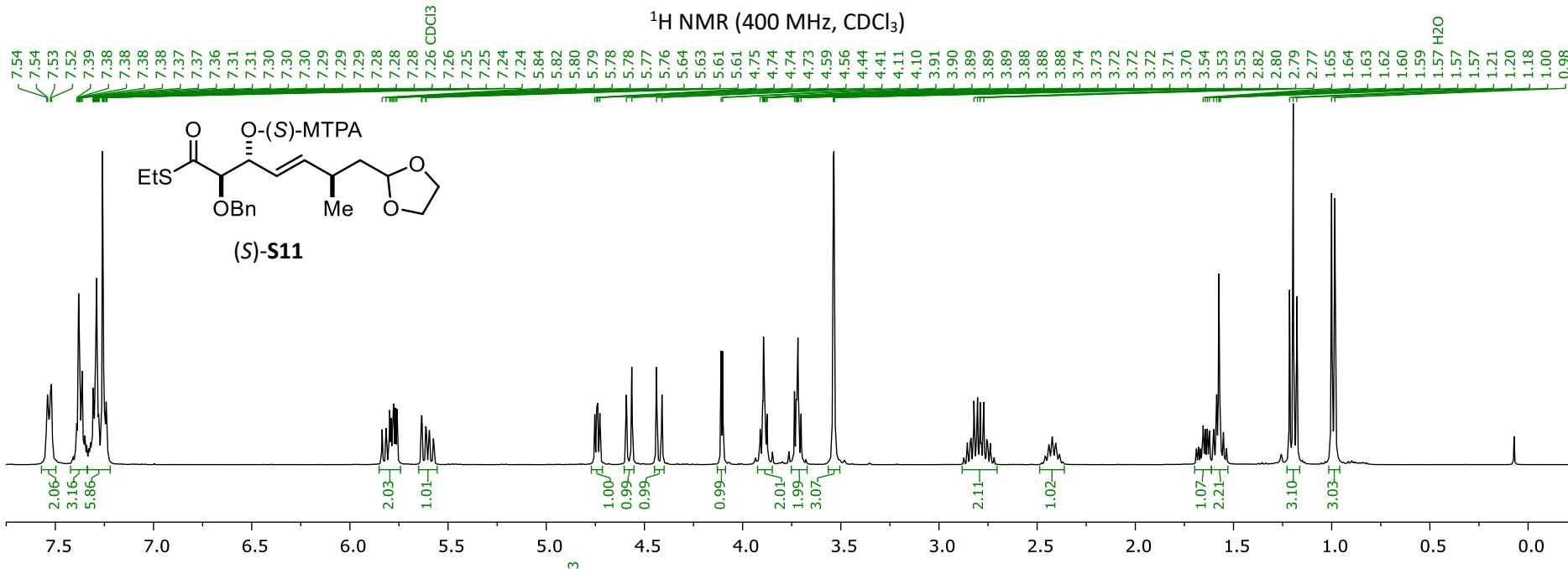
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>)

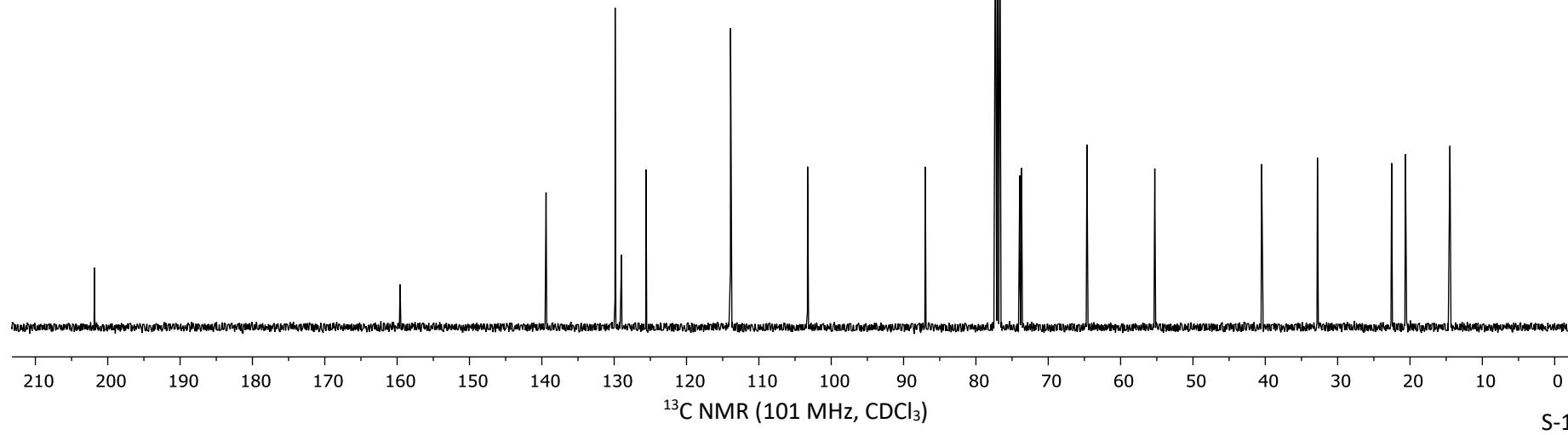
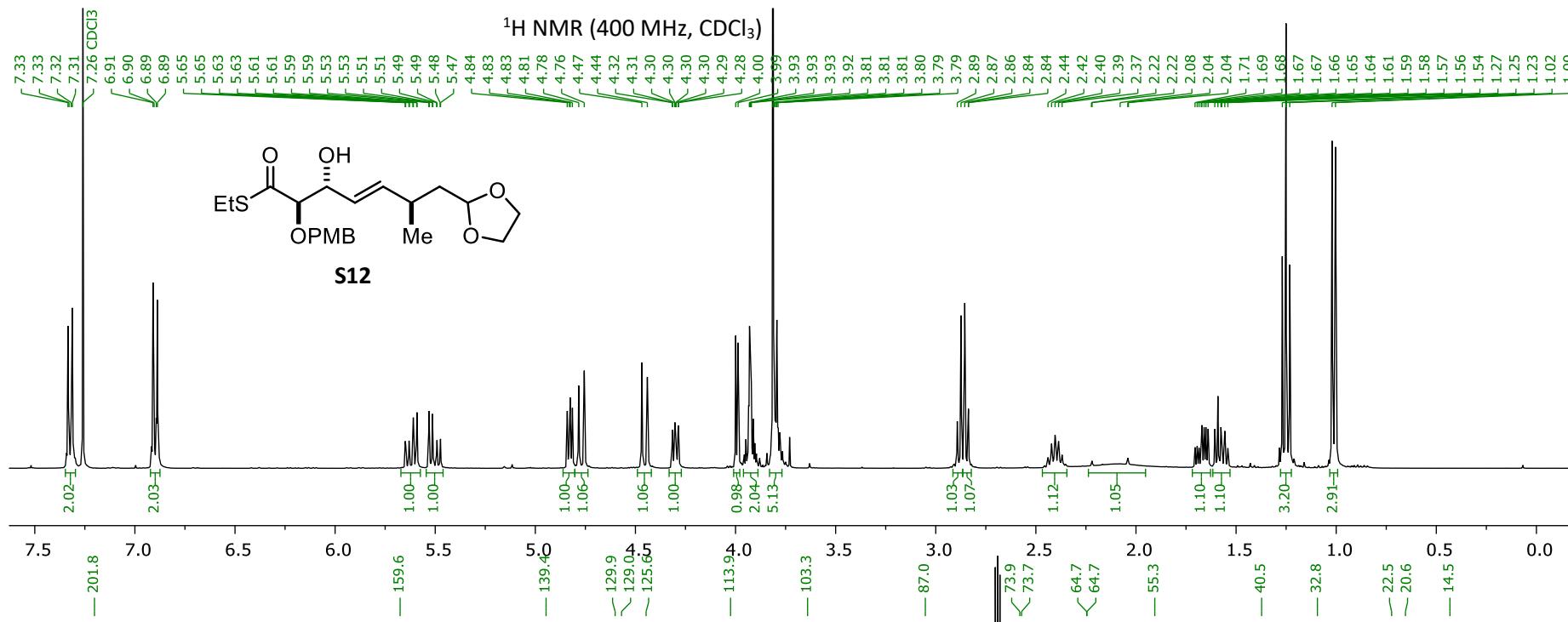


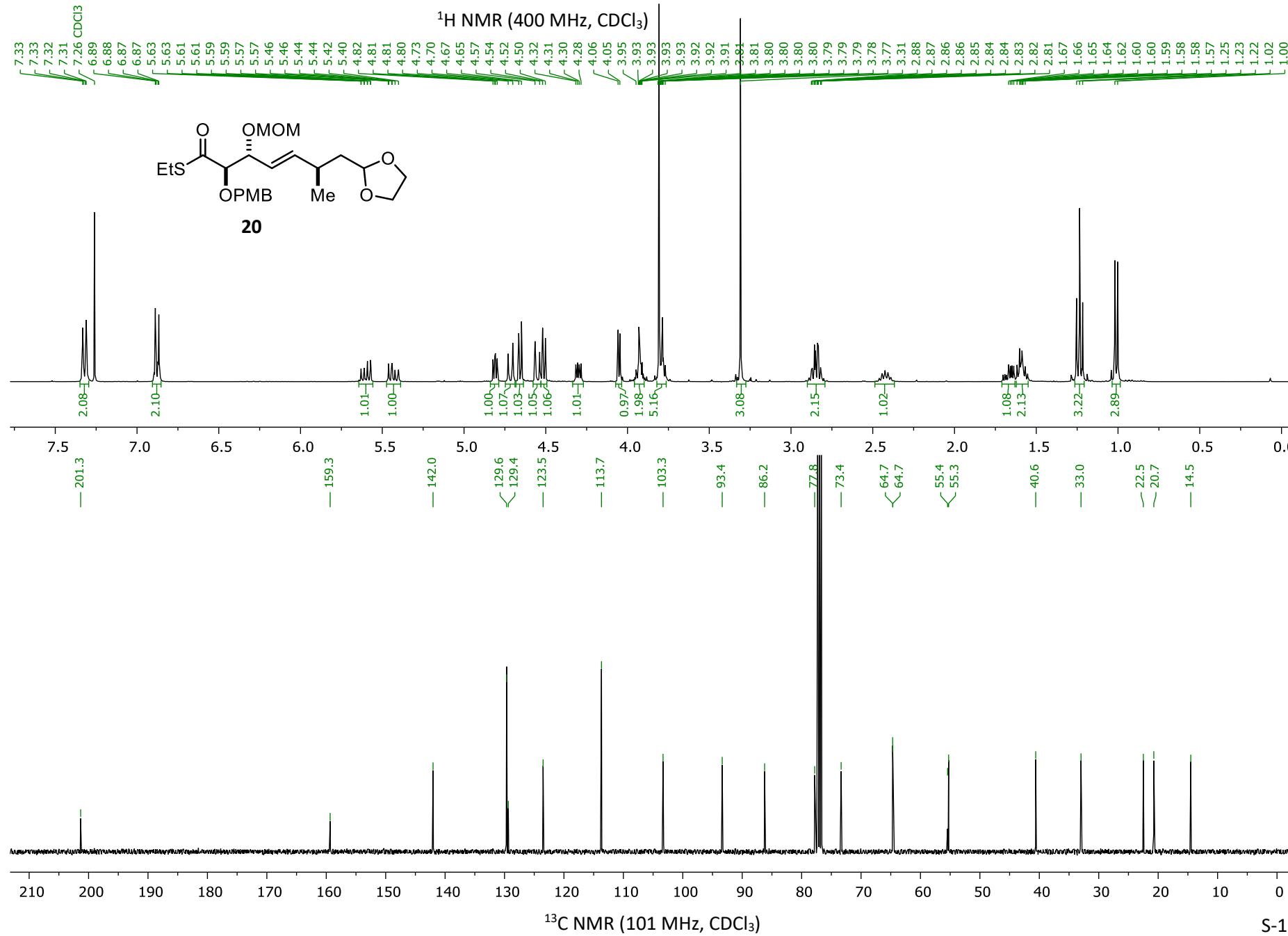


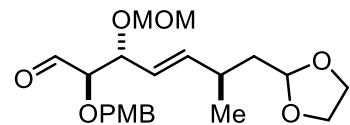
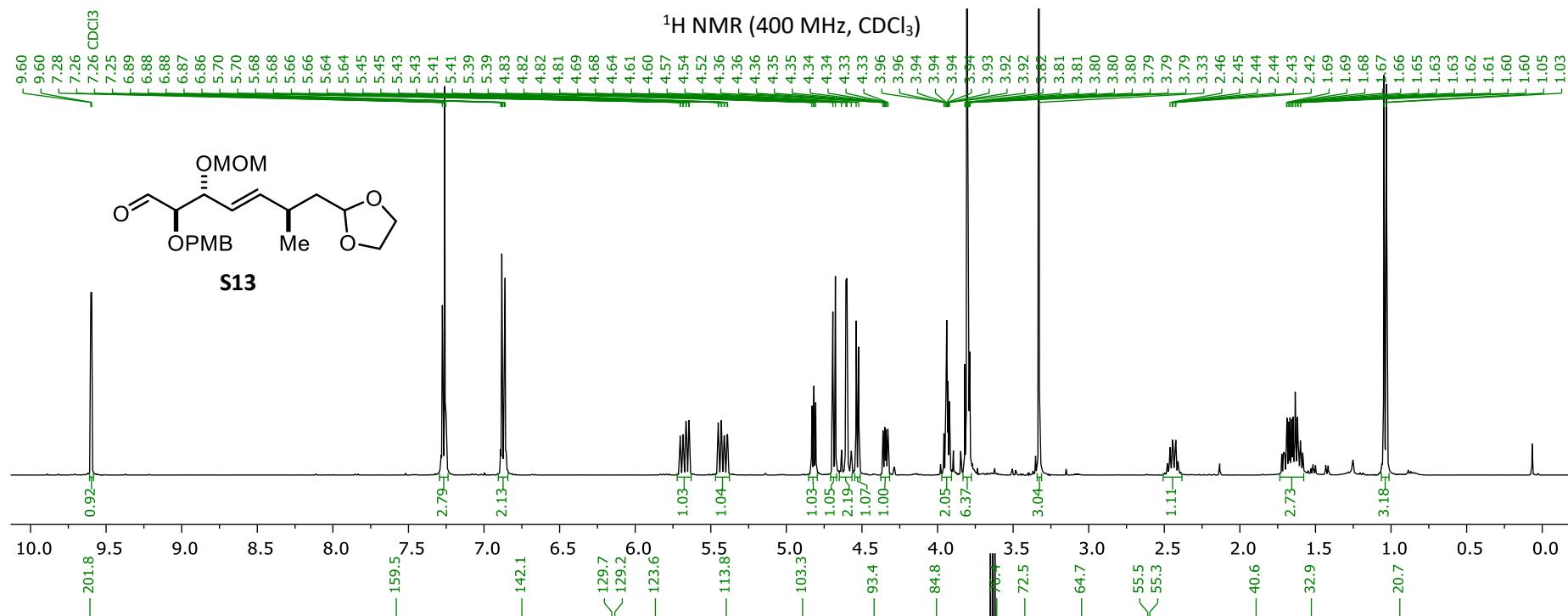




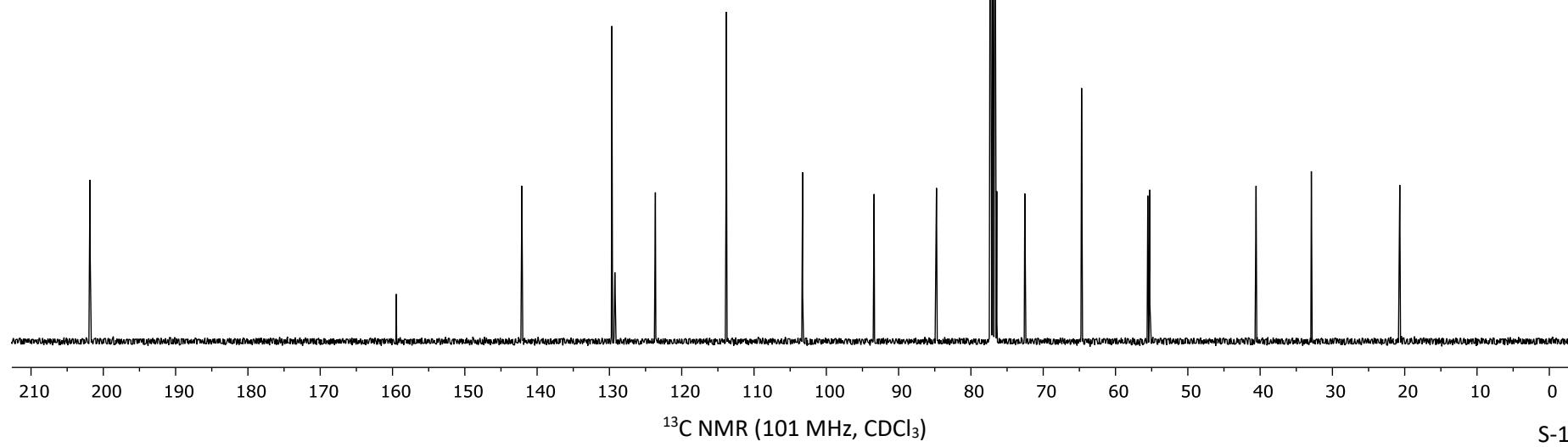


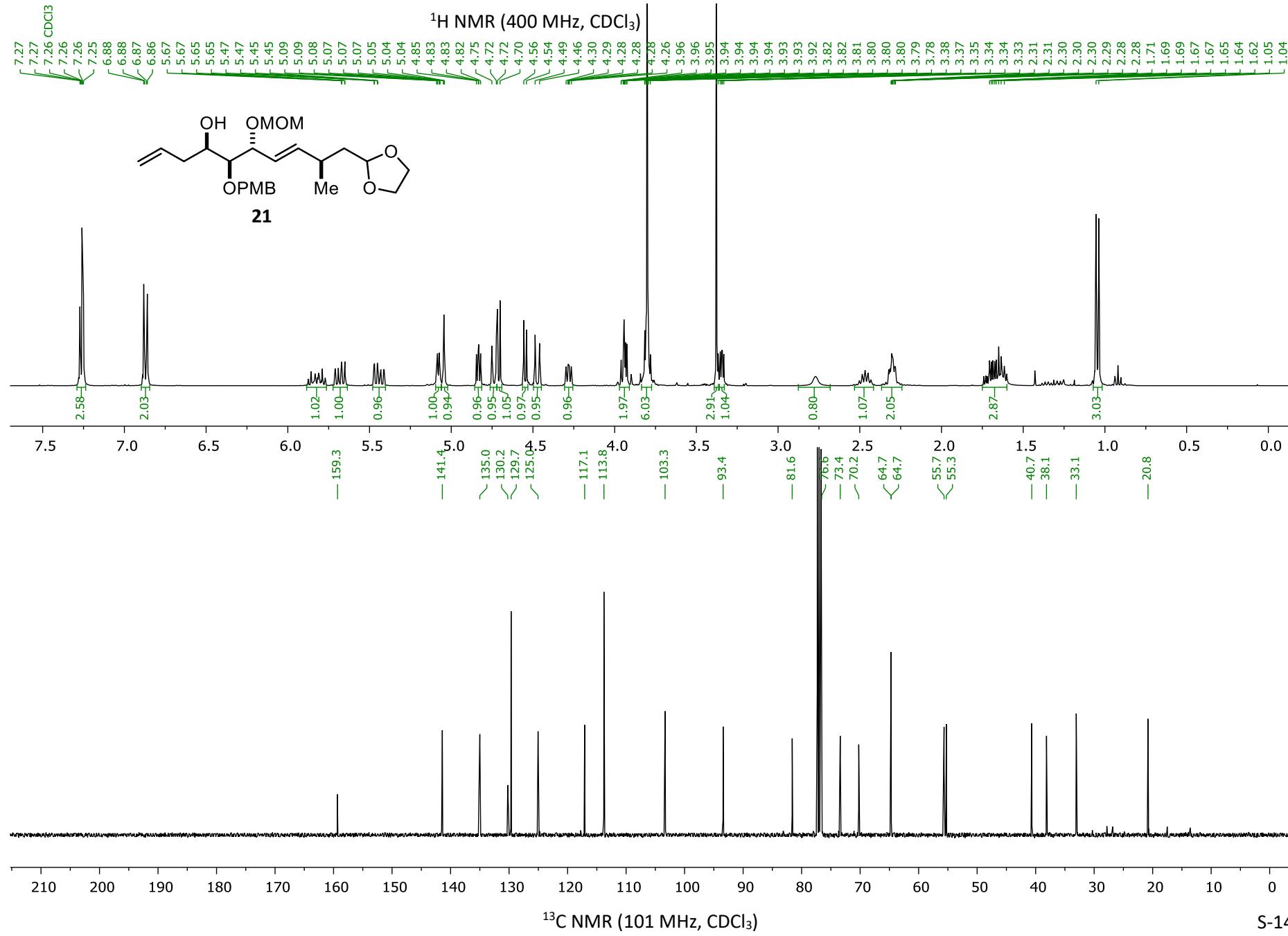


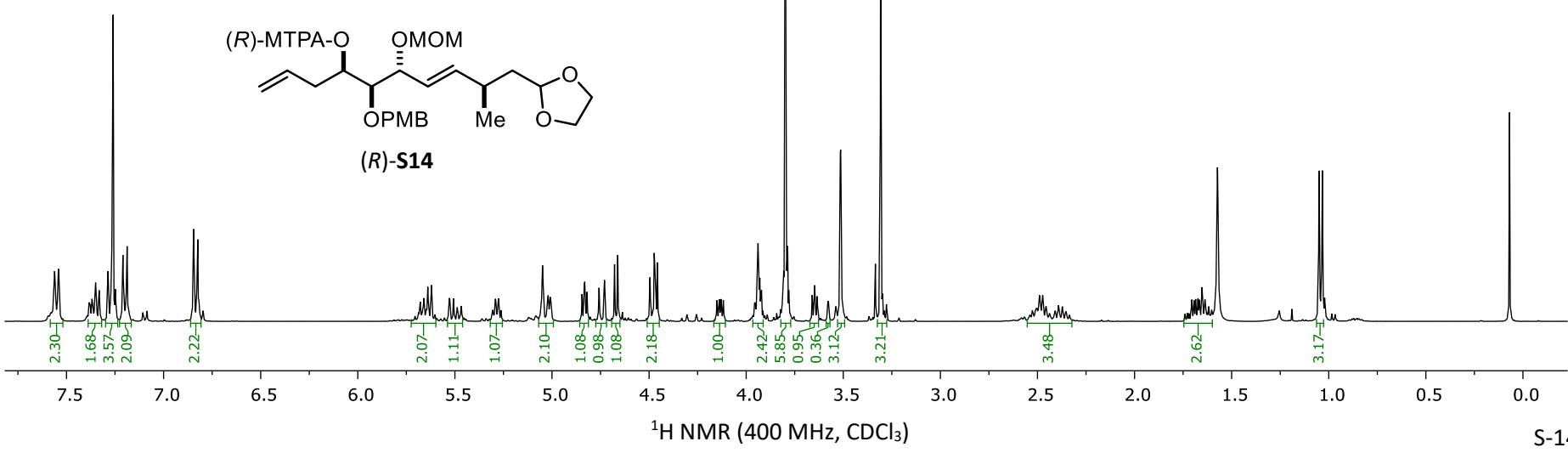
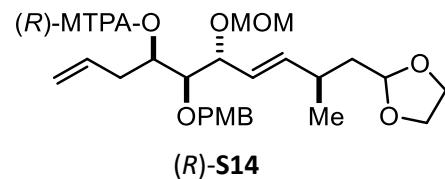
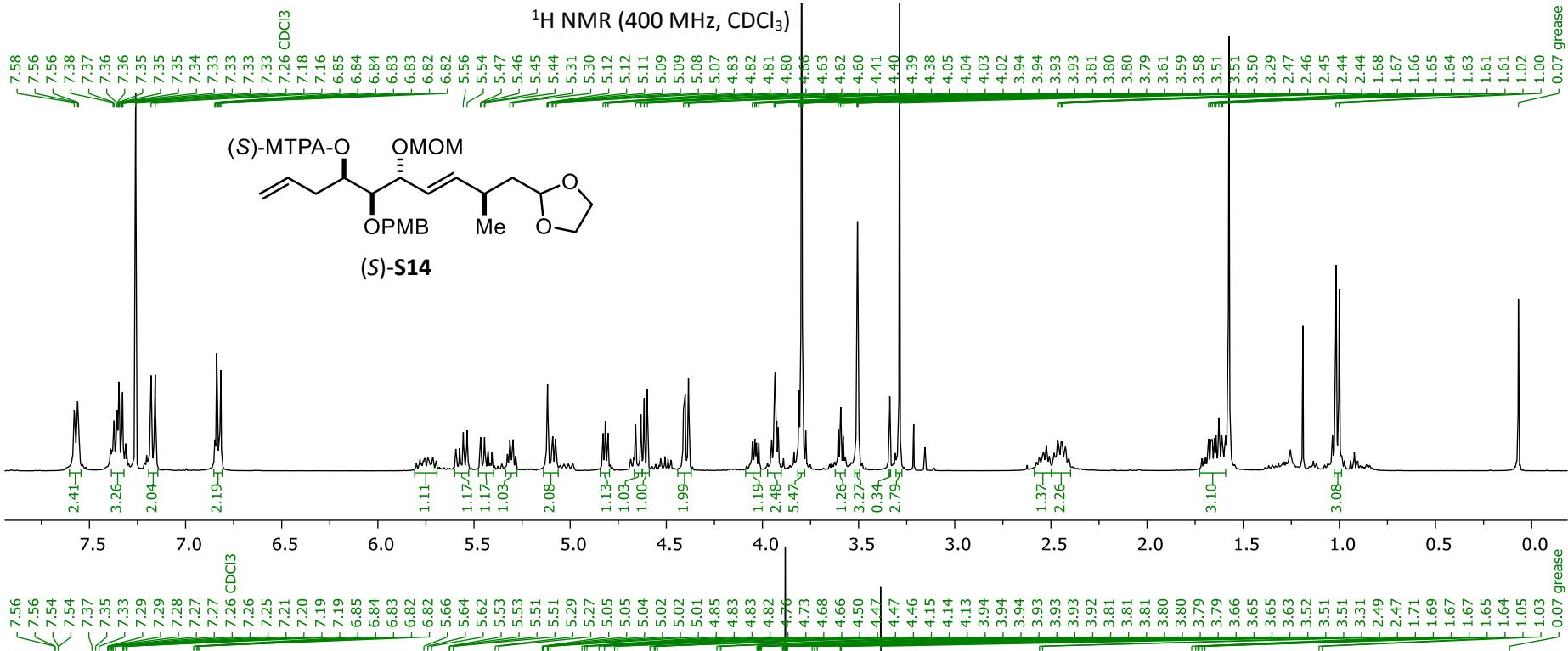


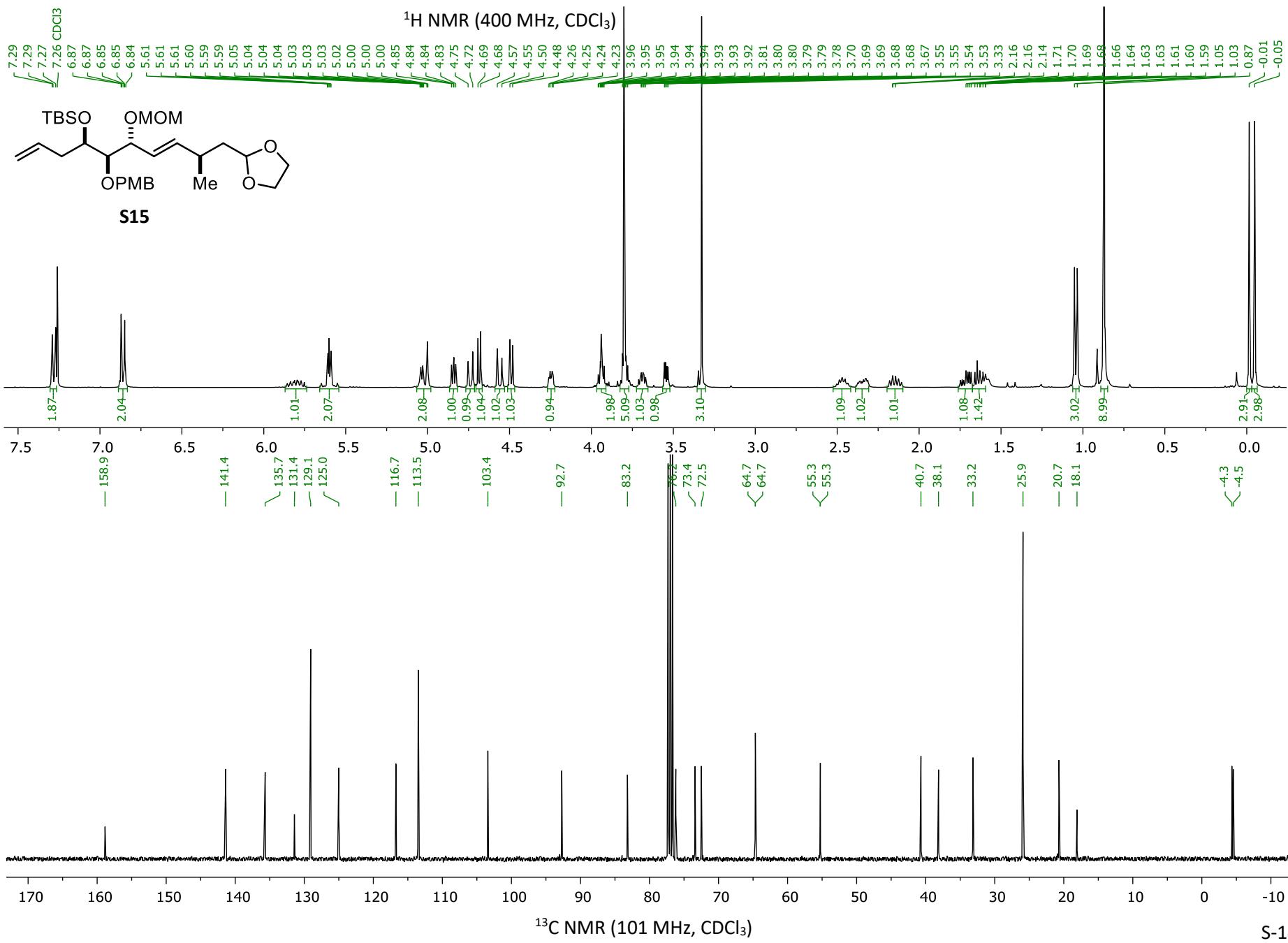


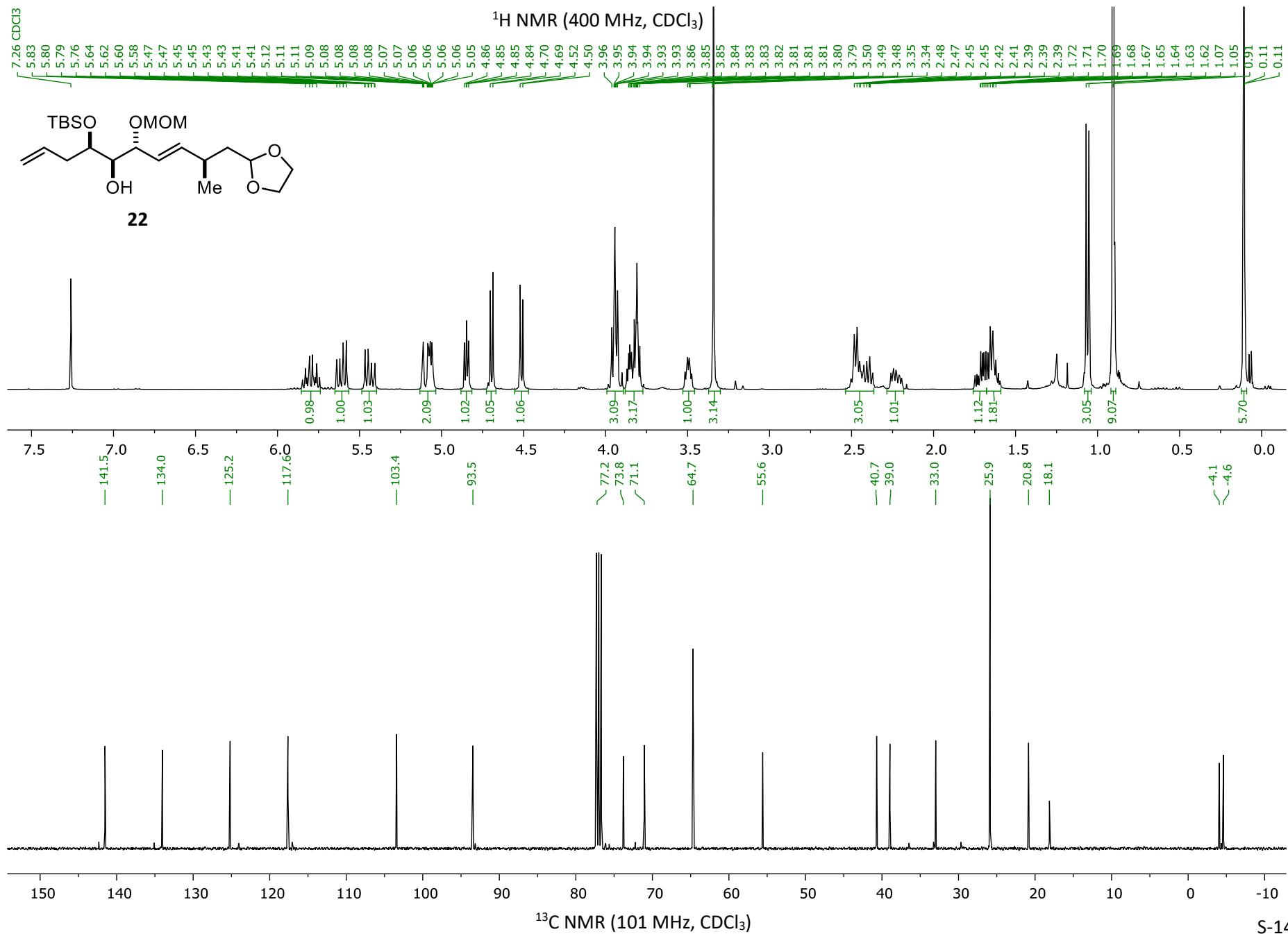
S13

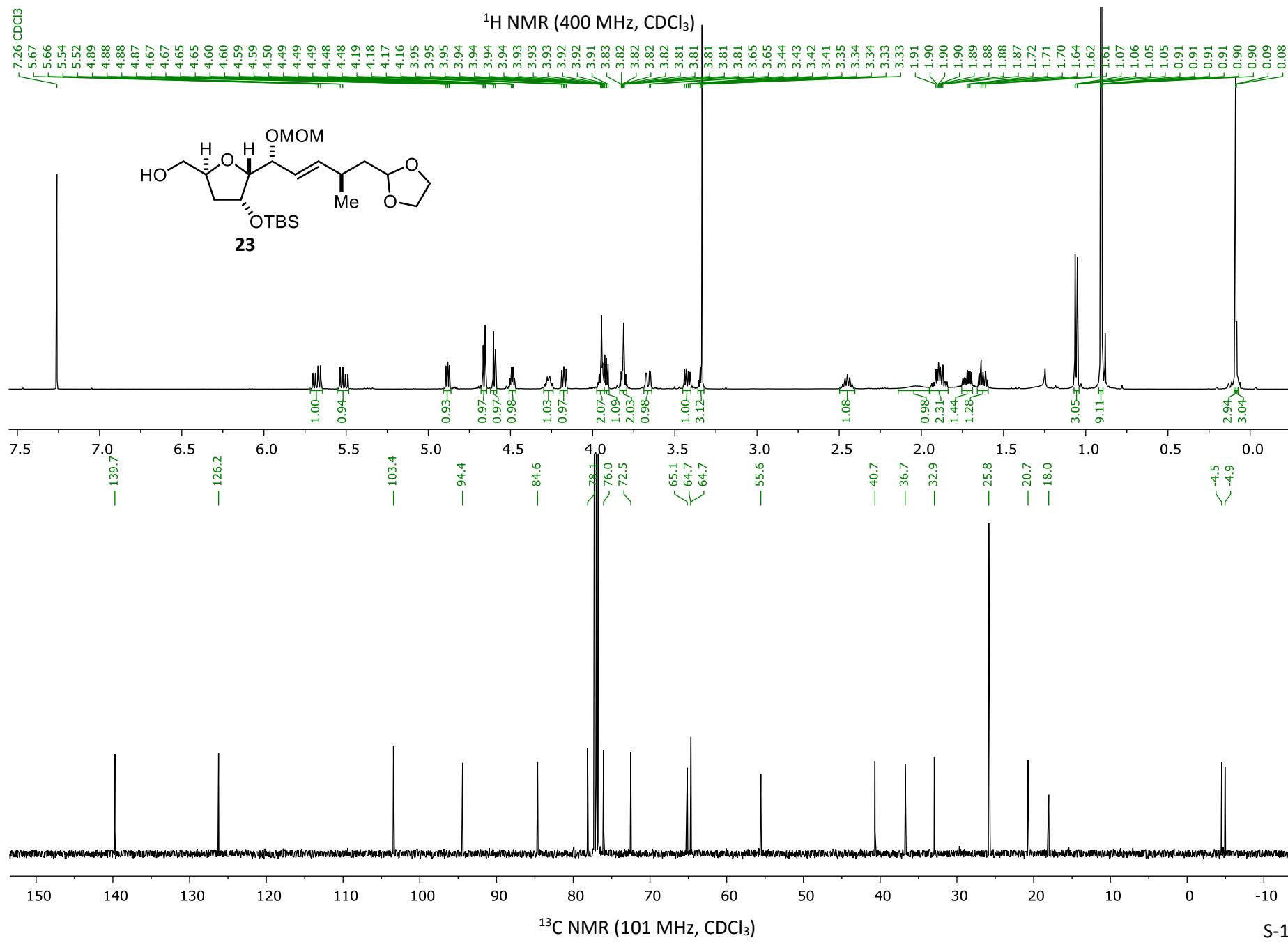


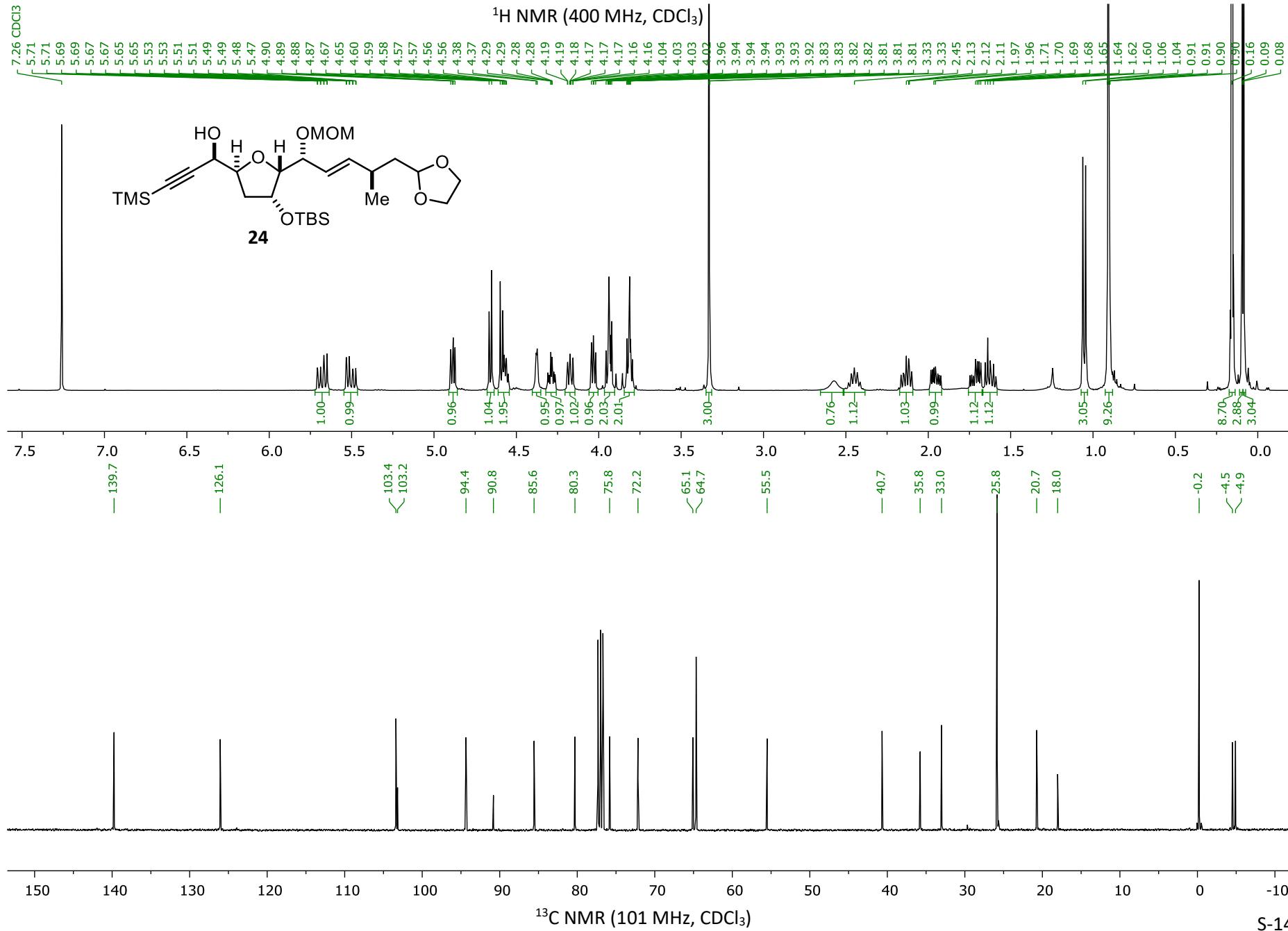


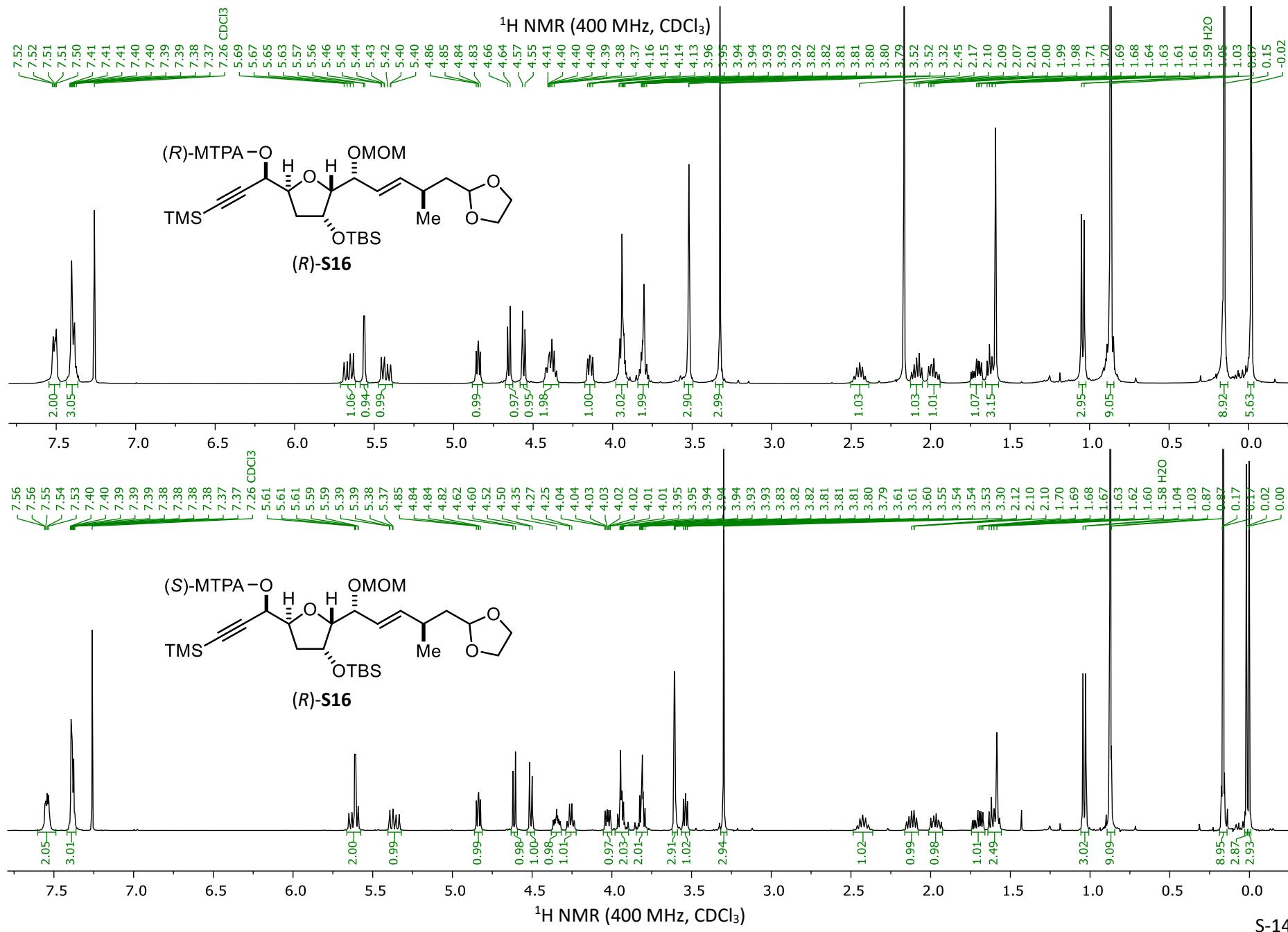


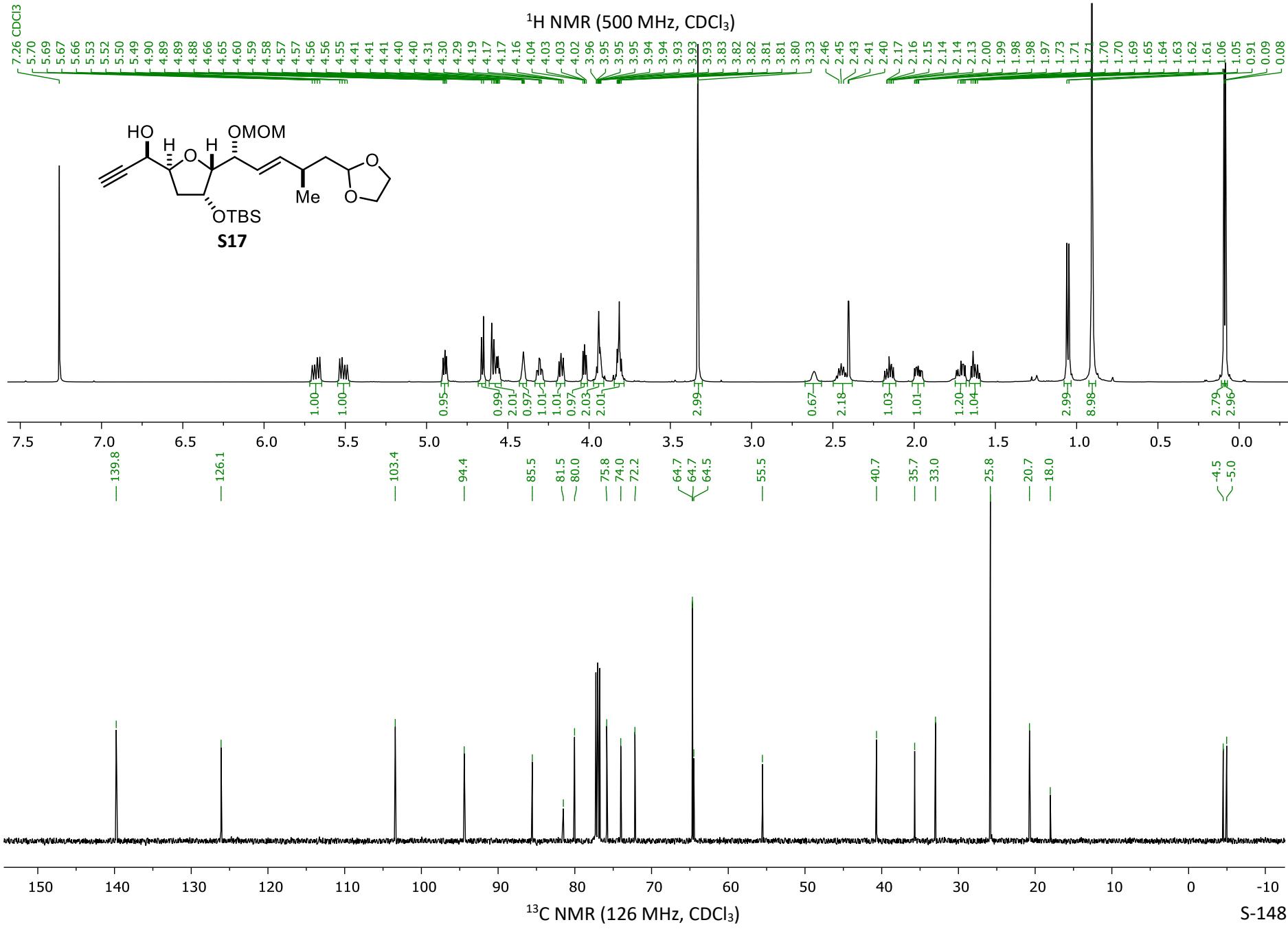


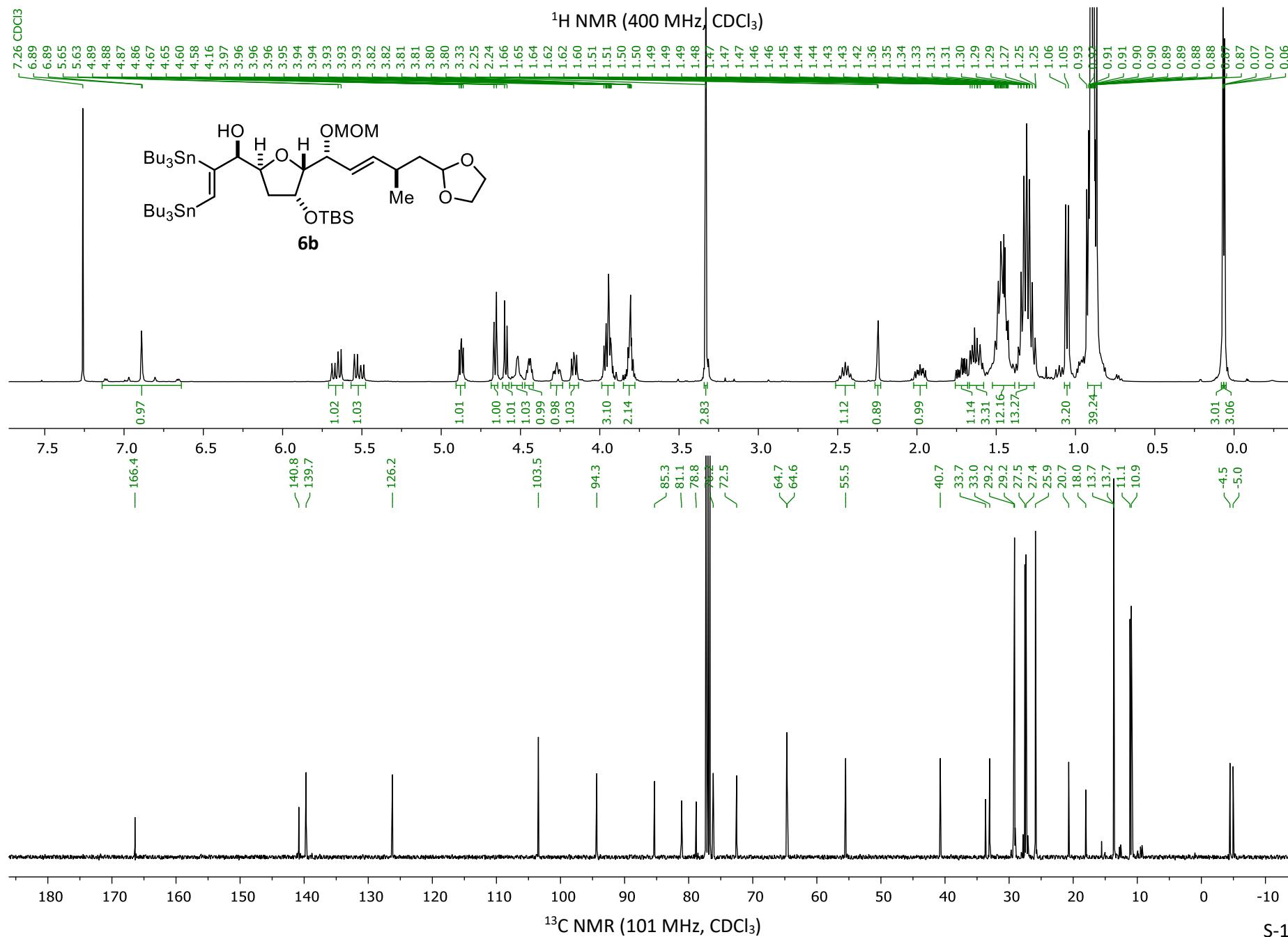


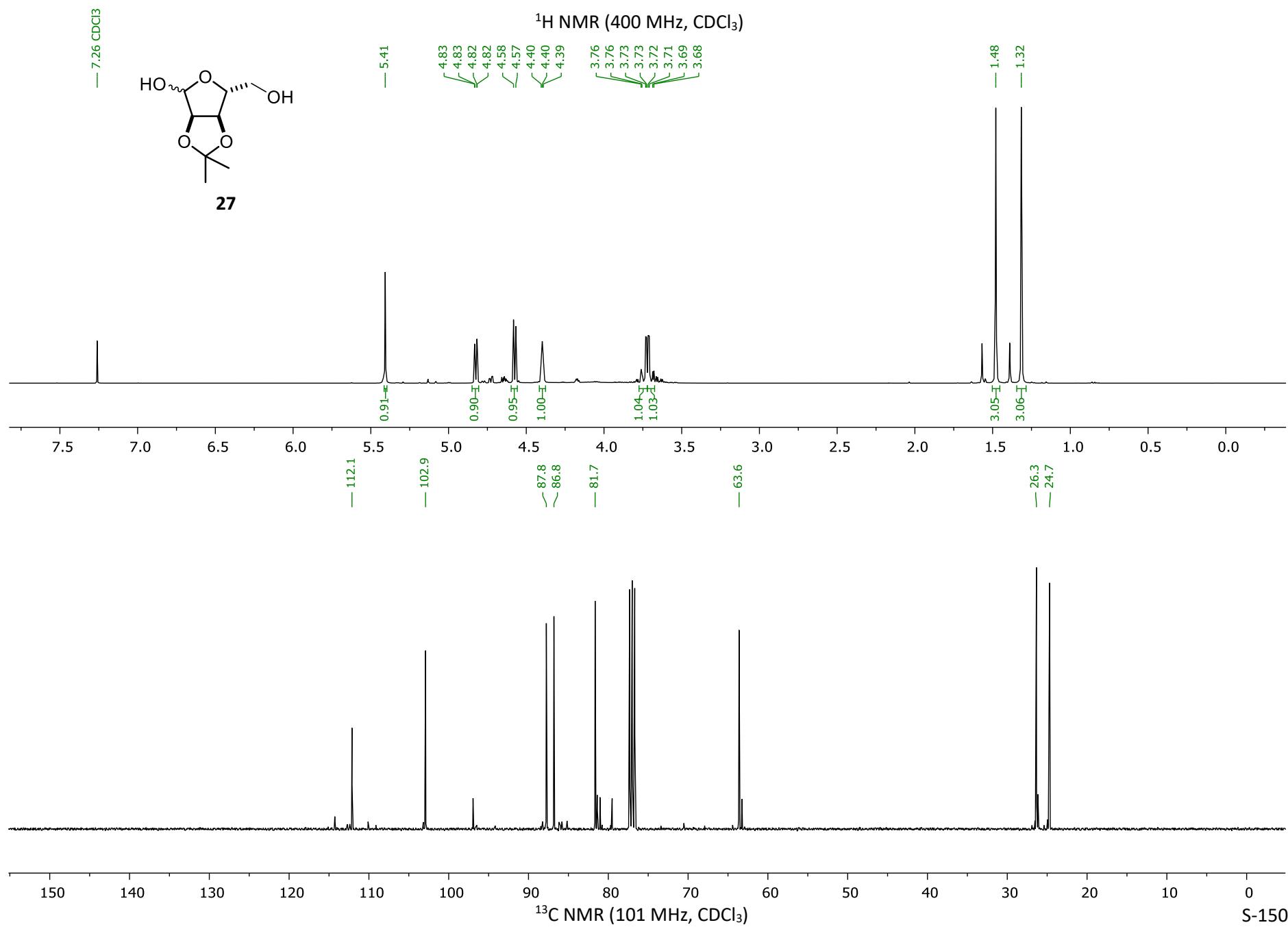


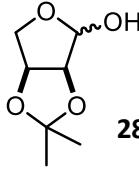




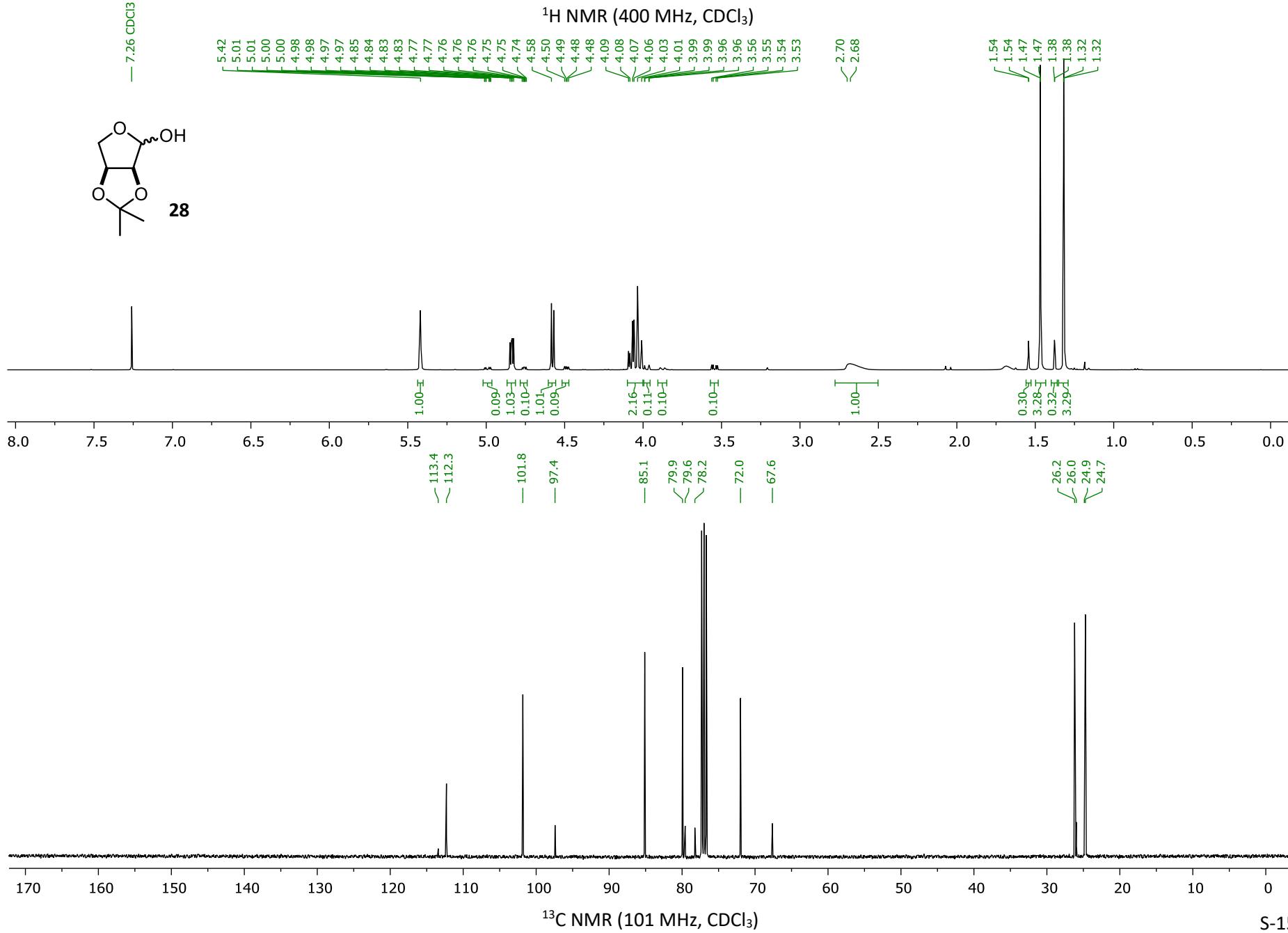


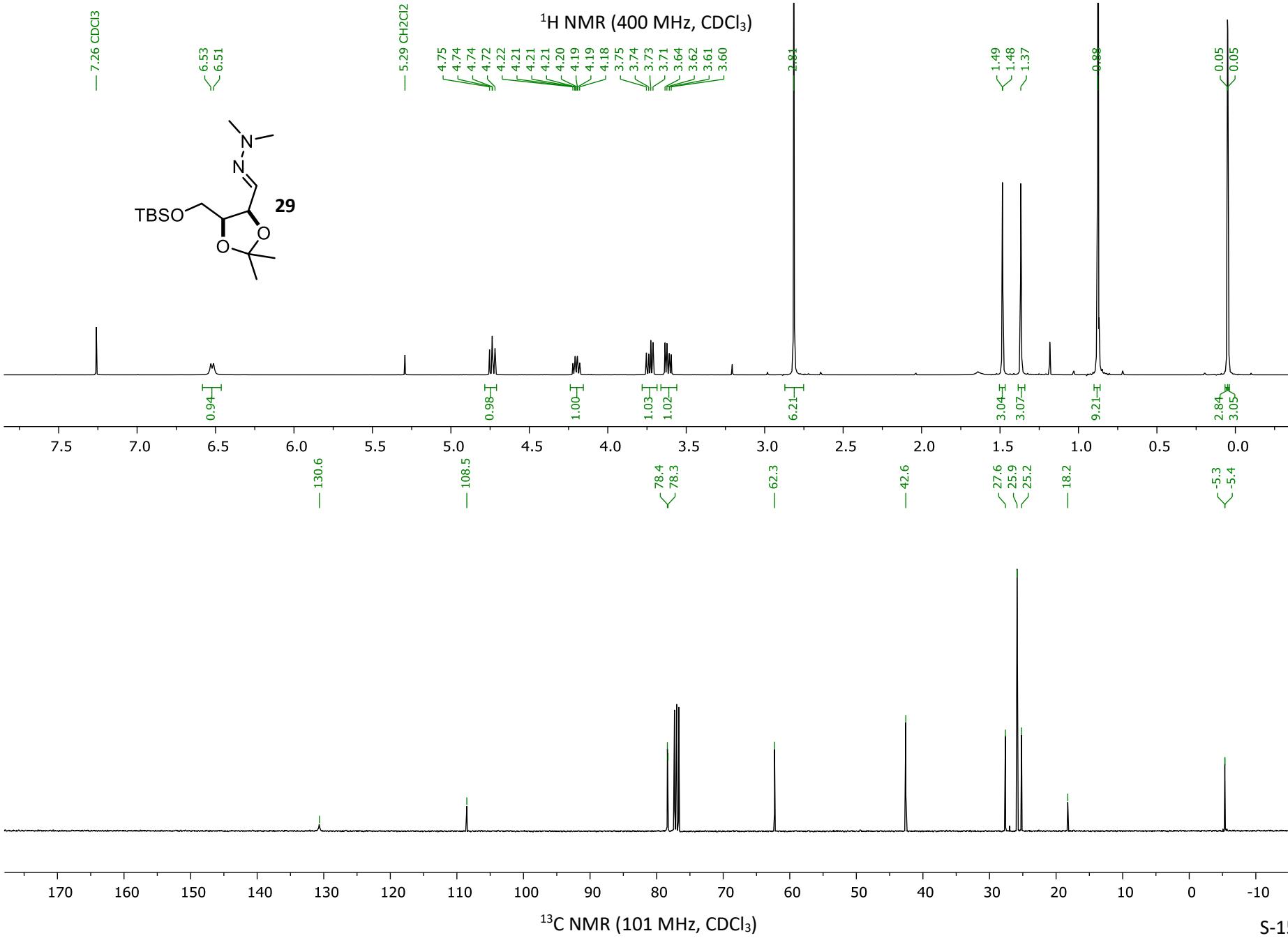


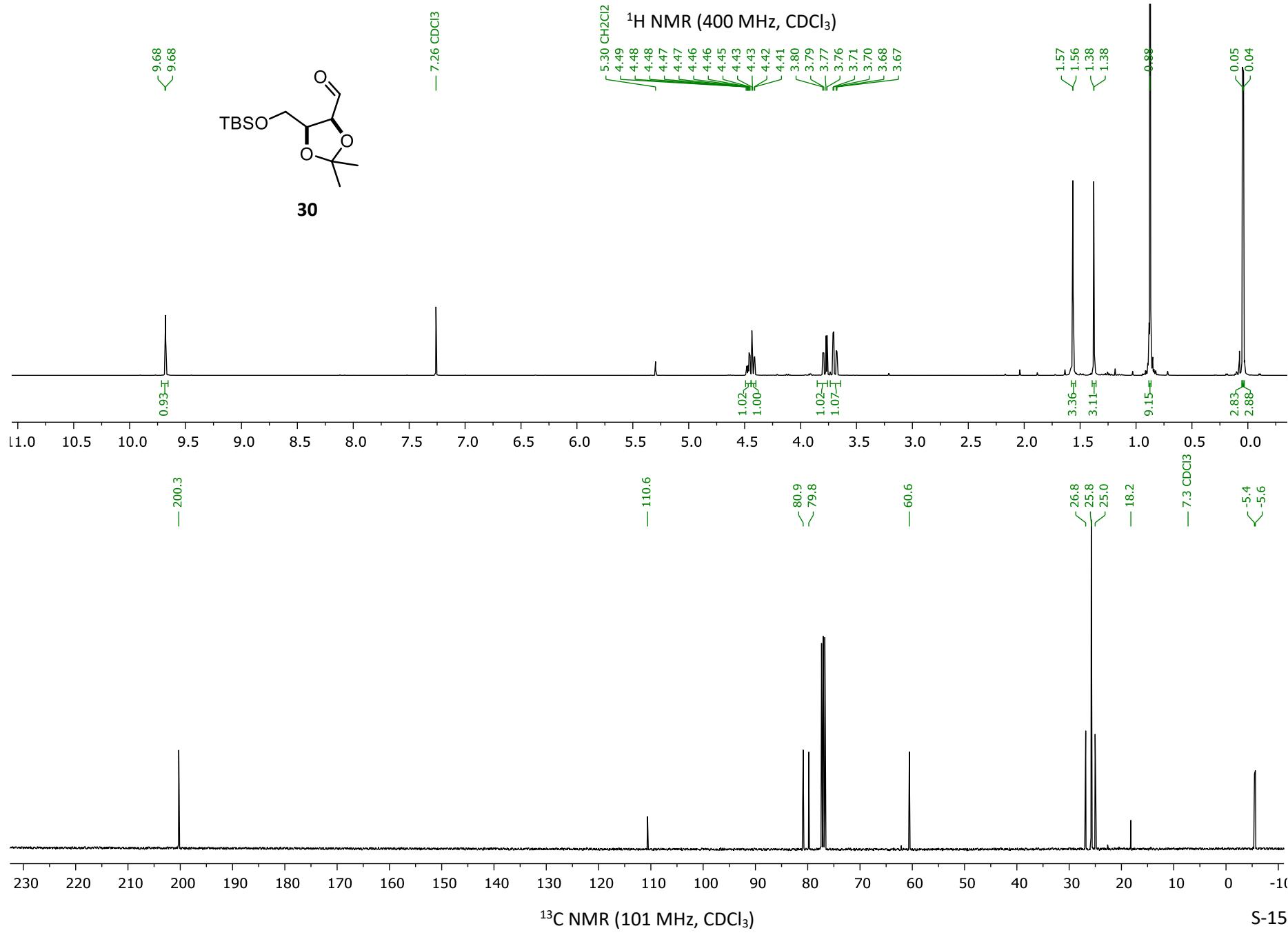


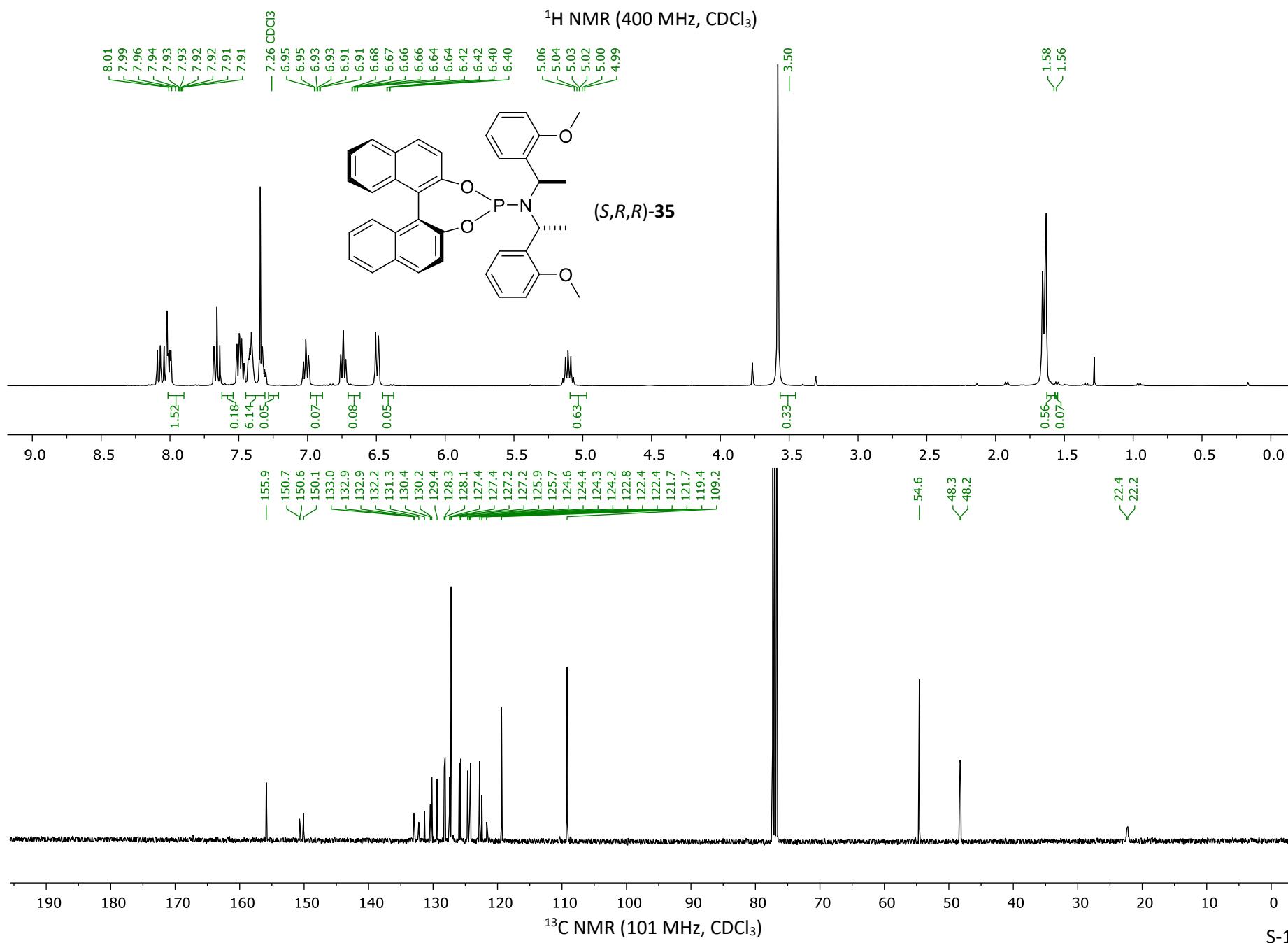


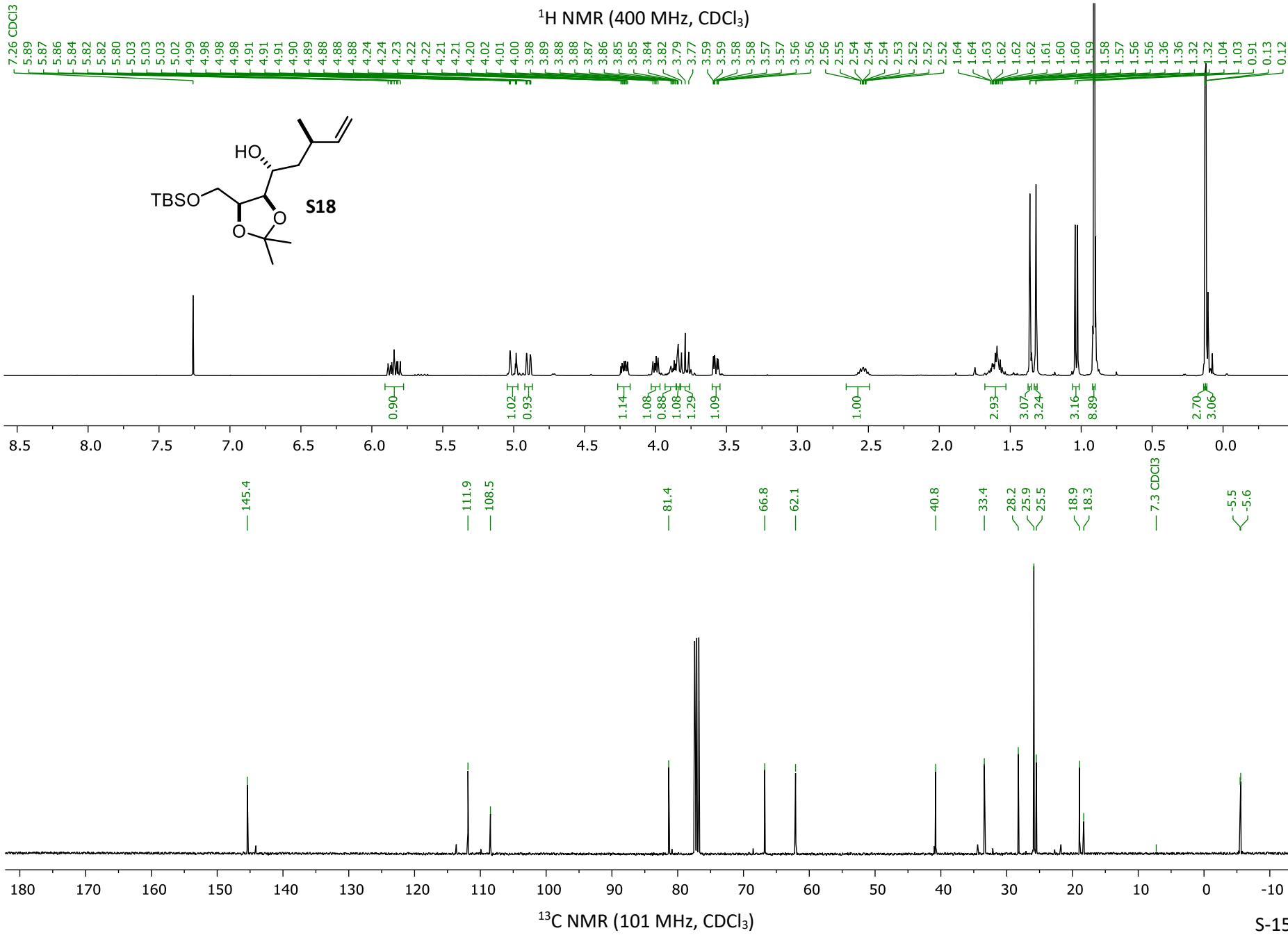
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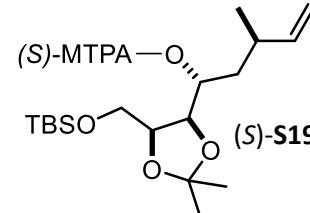
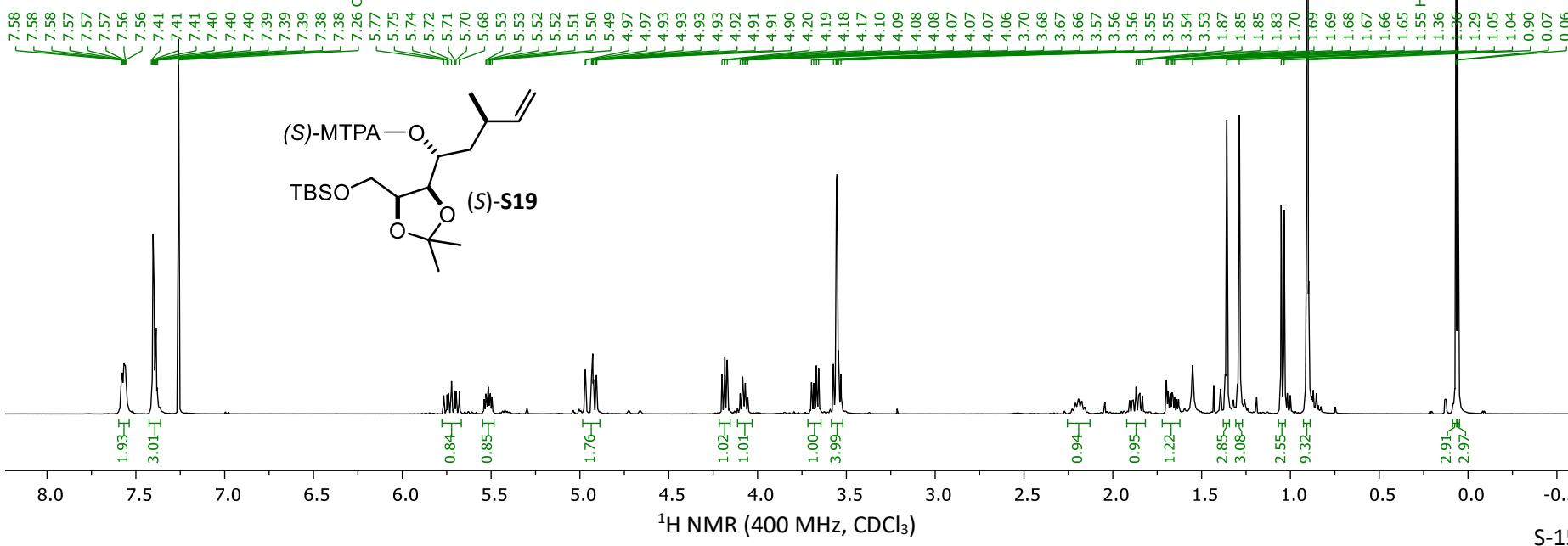
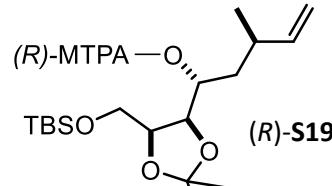
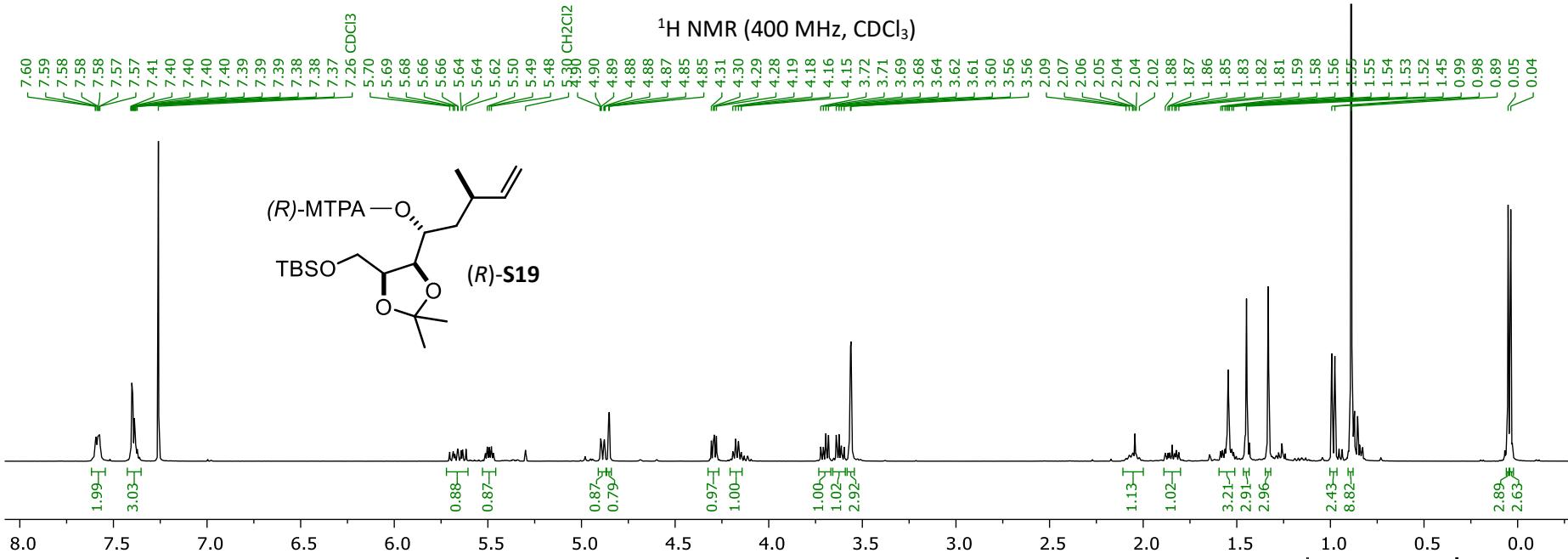


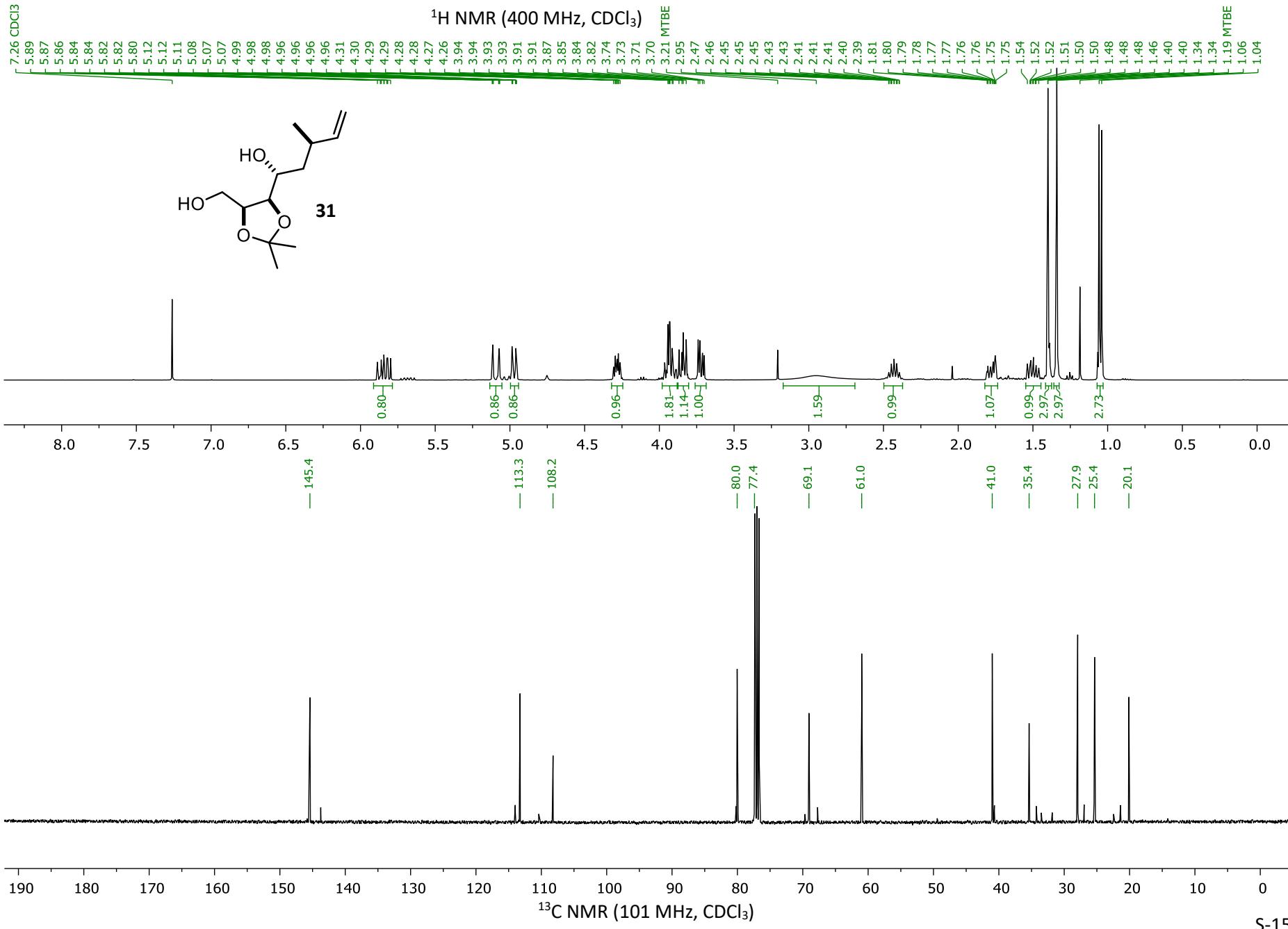


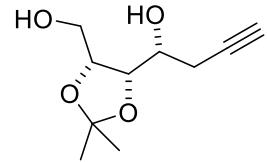




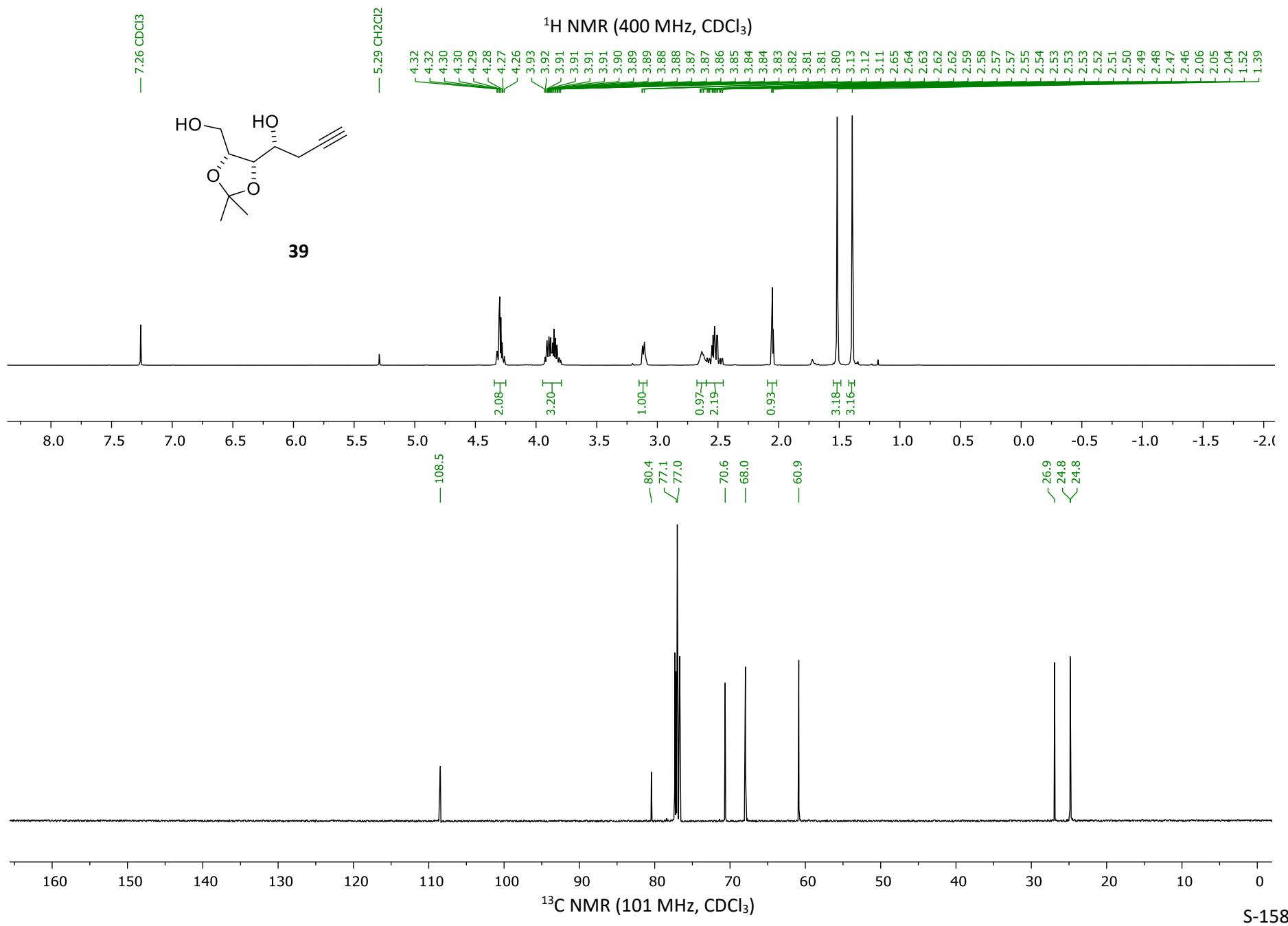


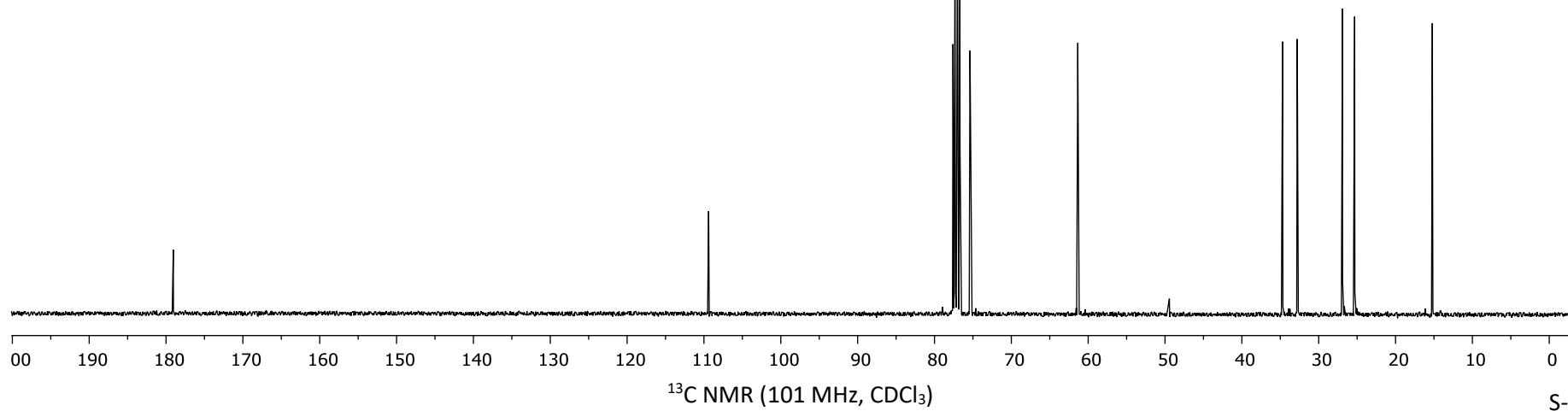
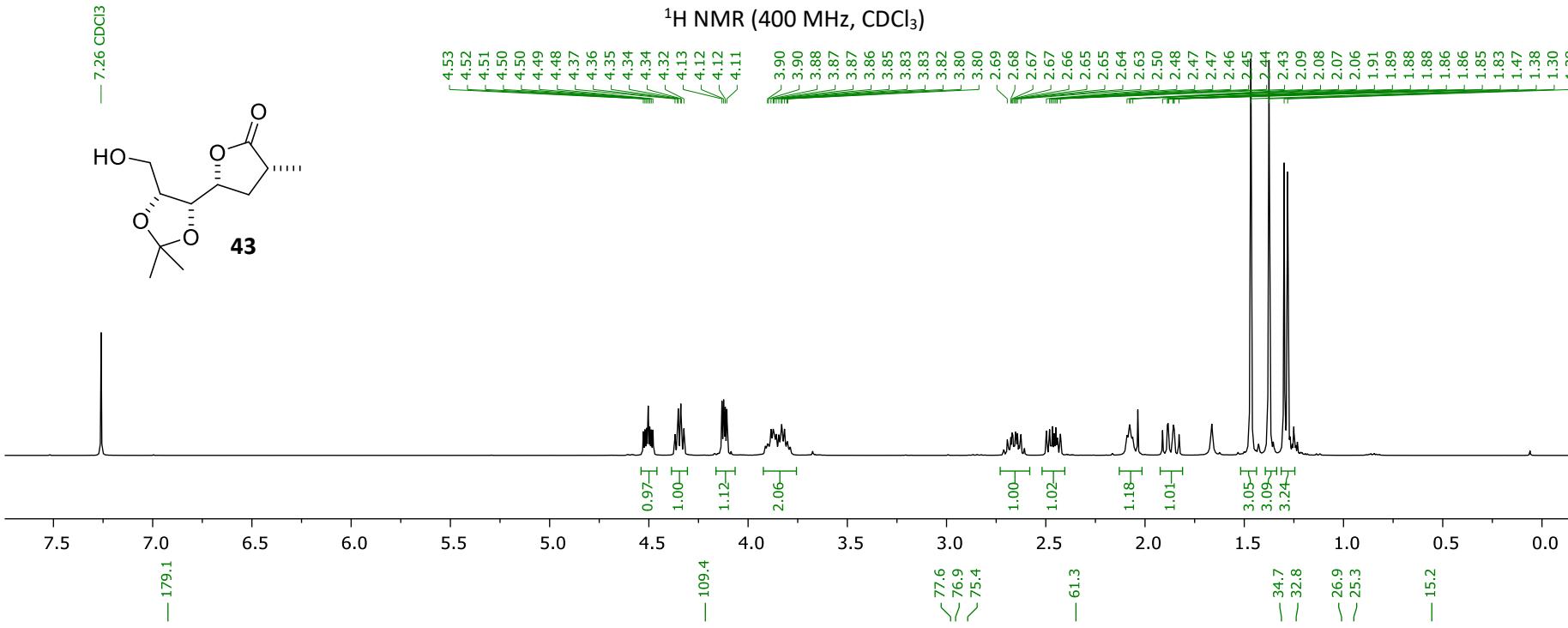


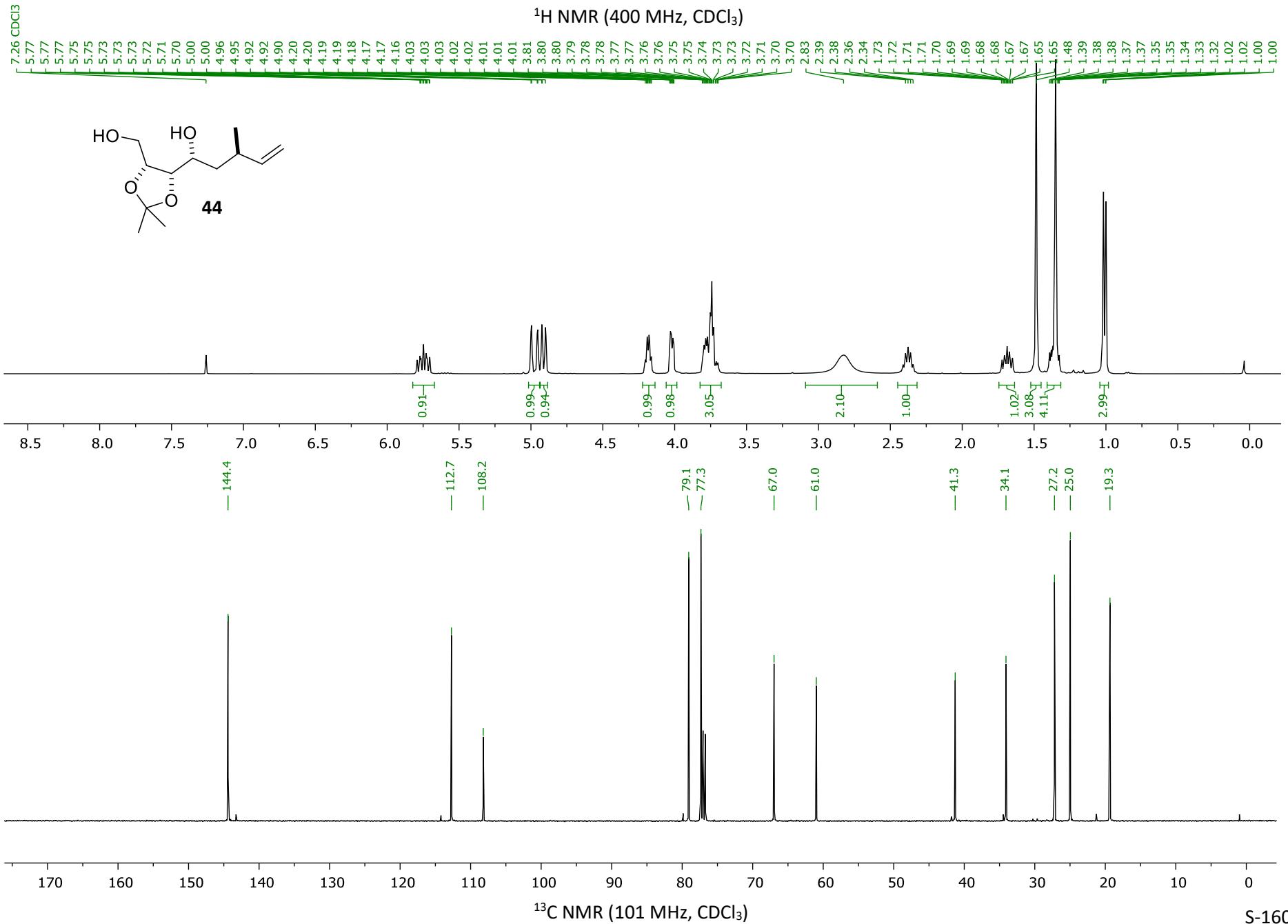


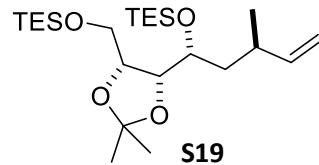
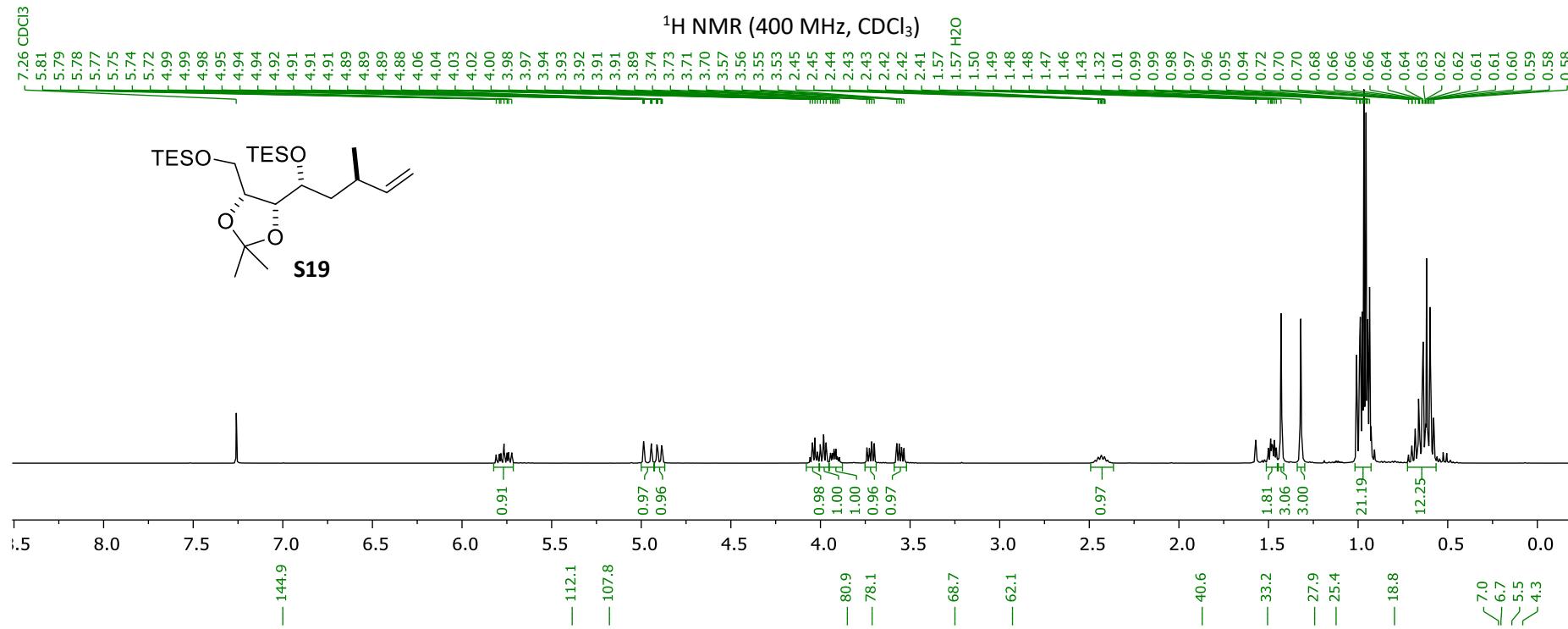


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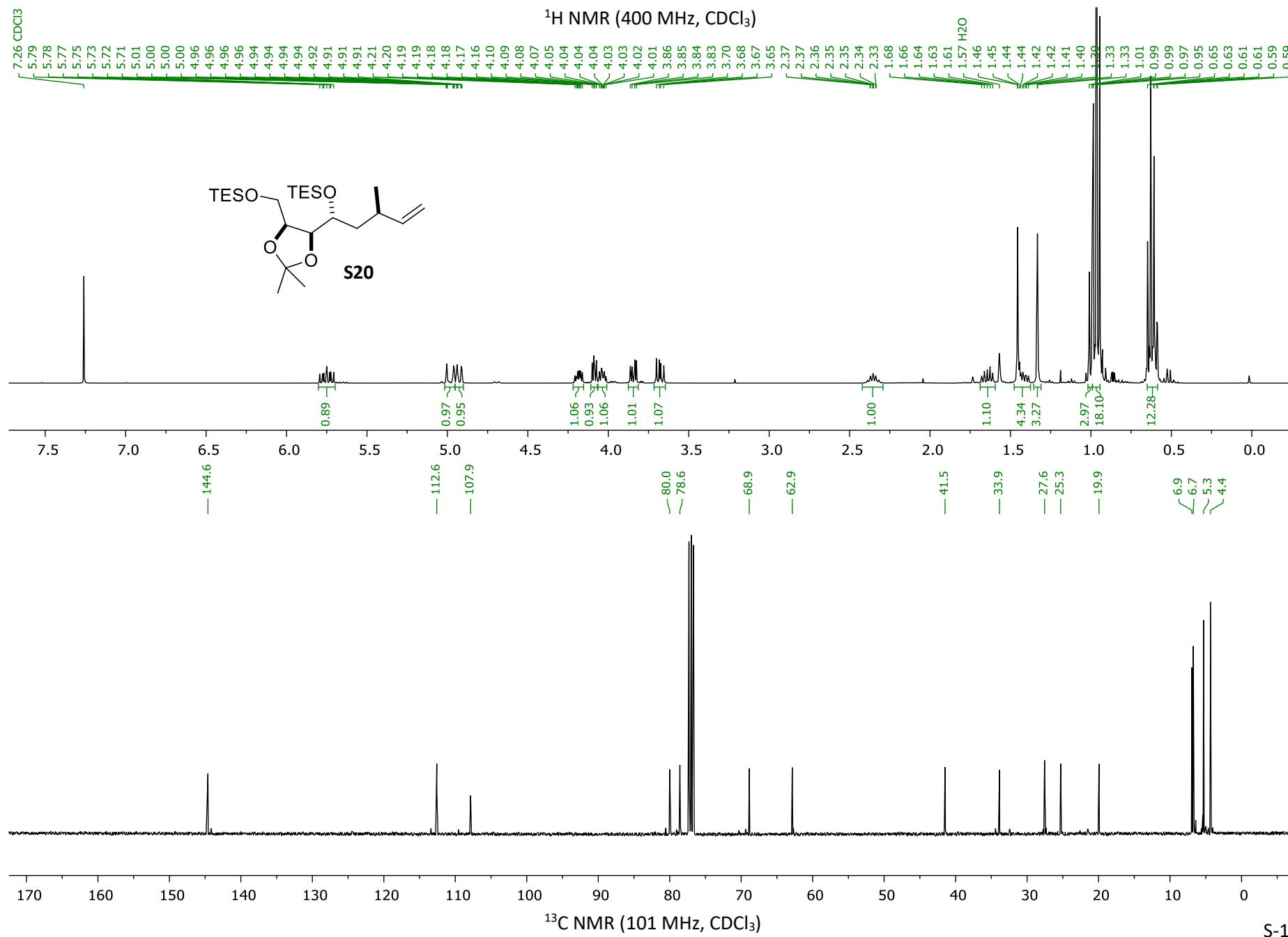


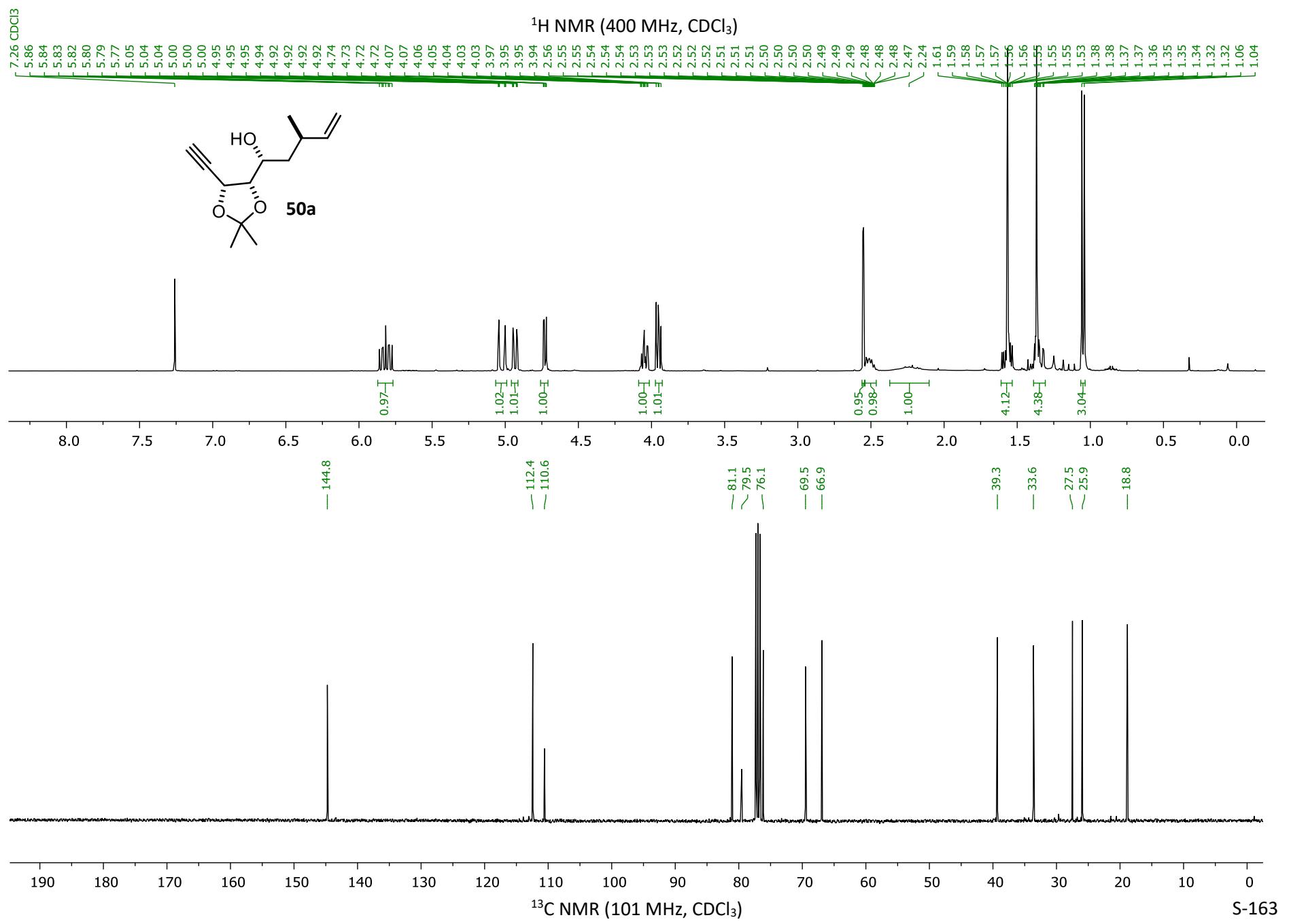


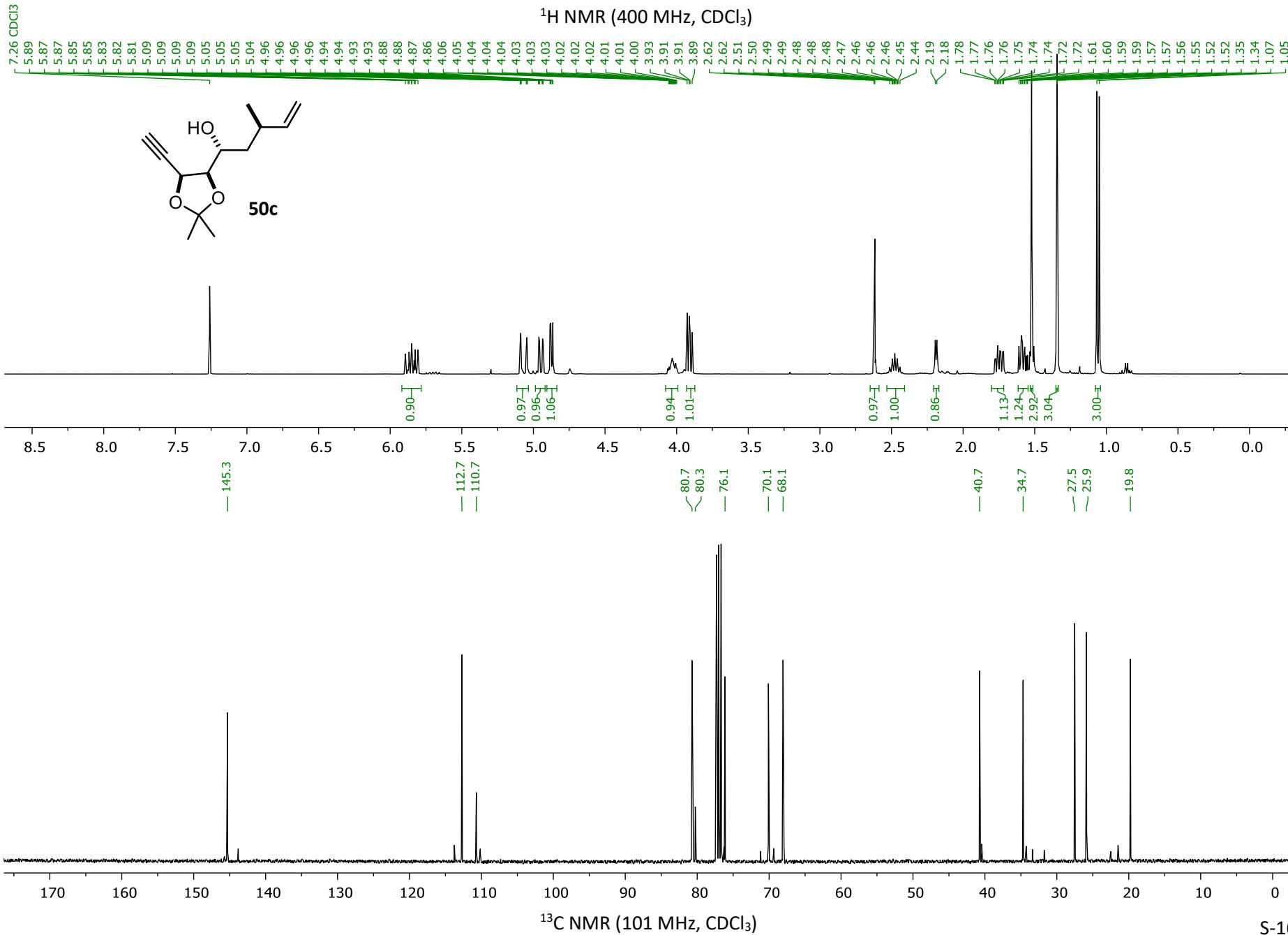


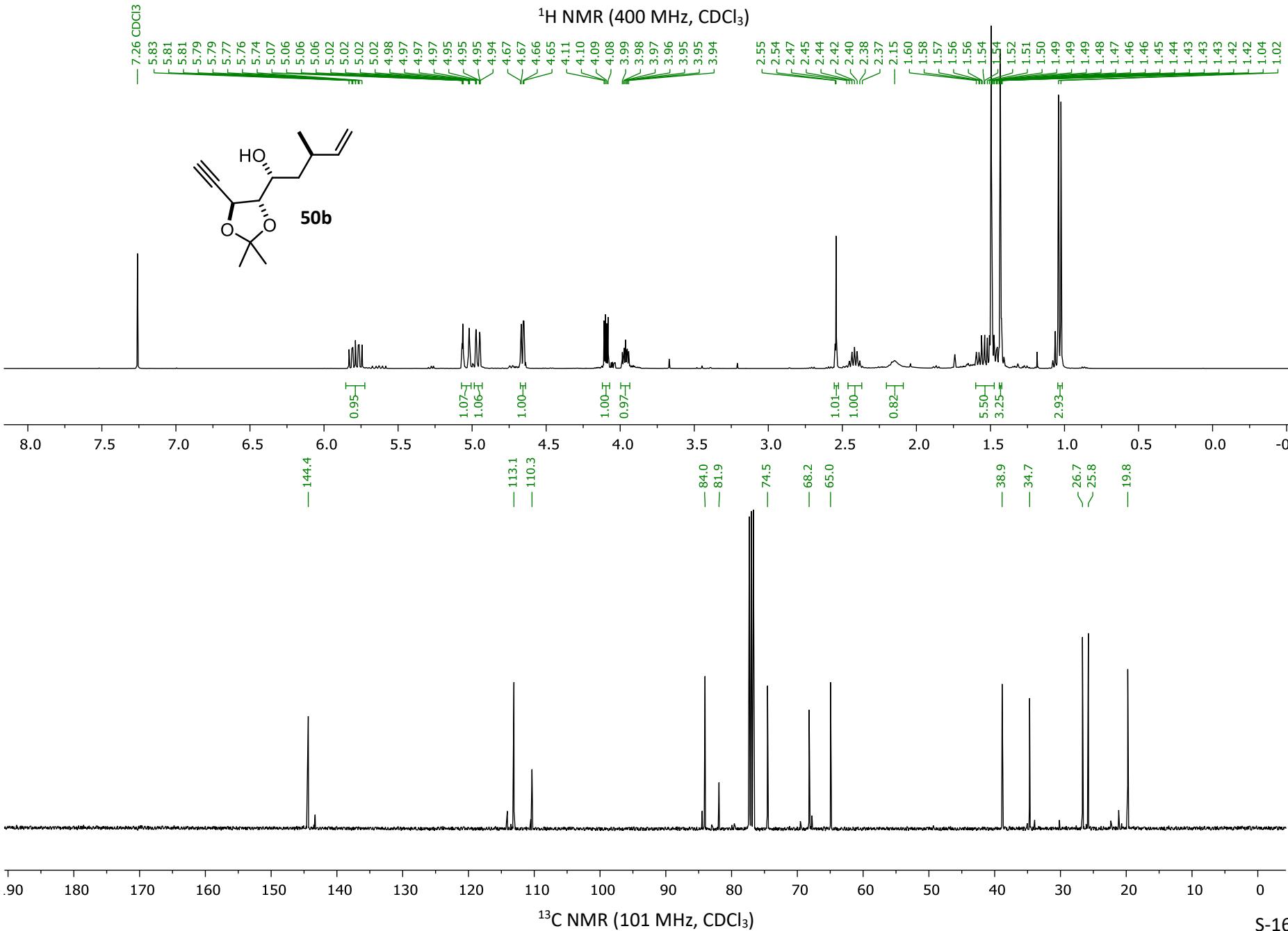


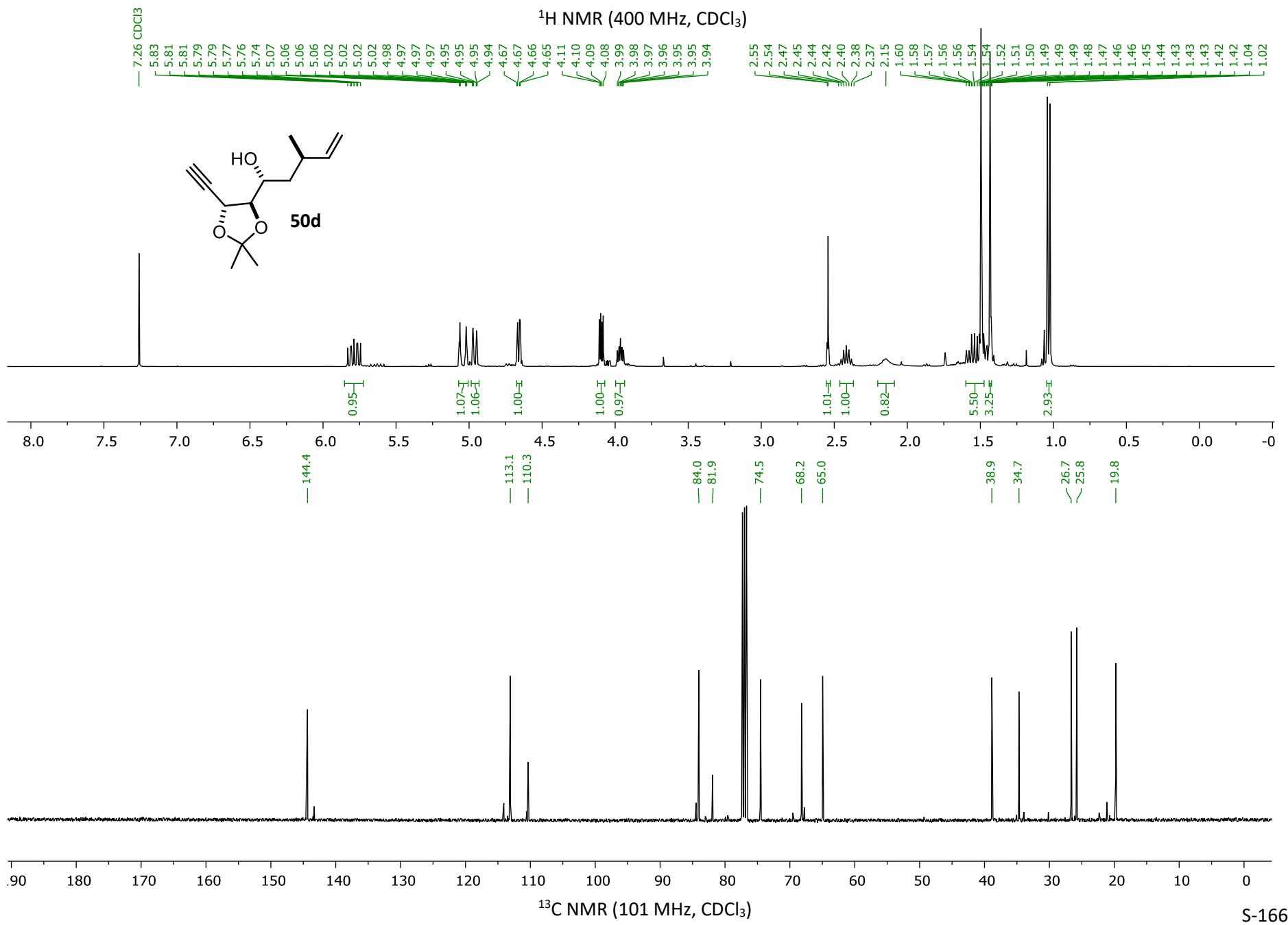
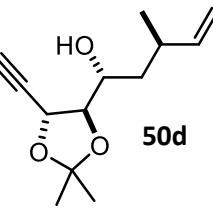
S-161

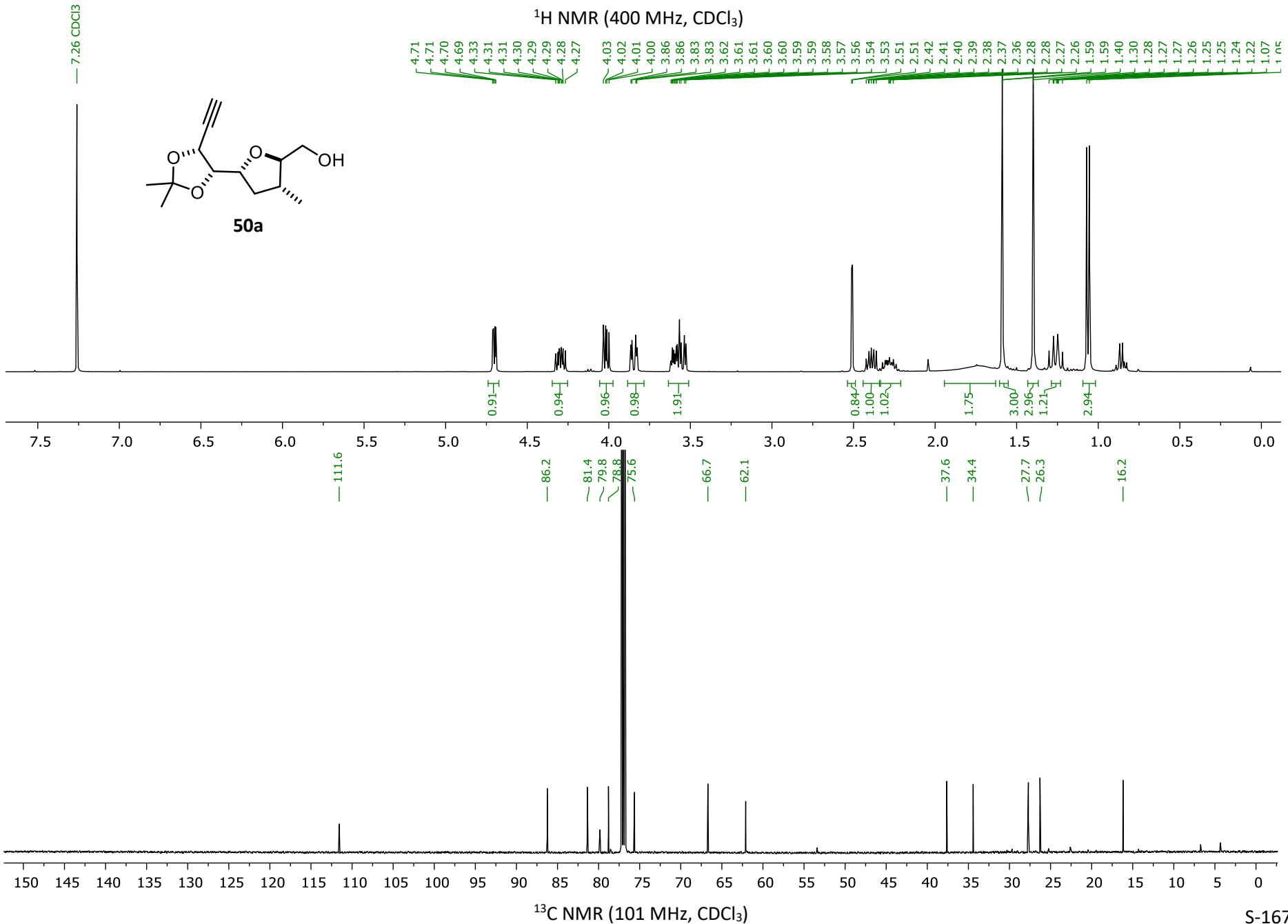


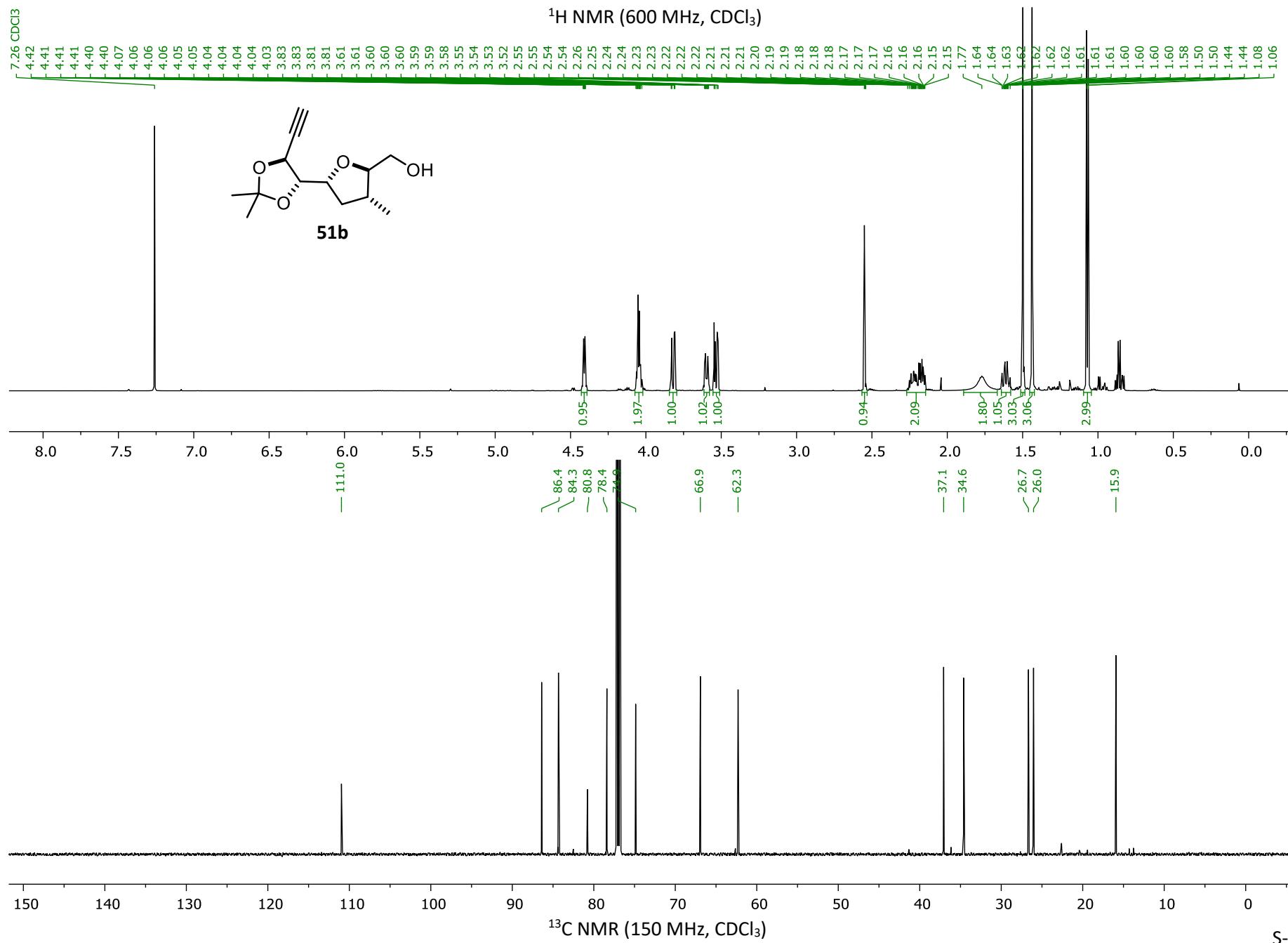


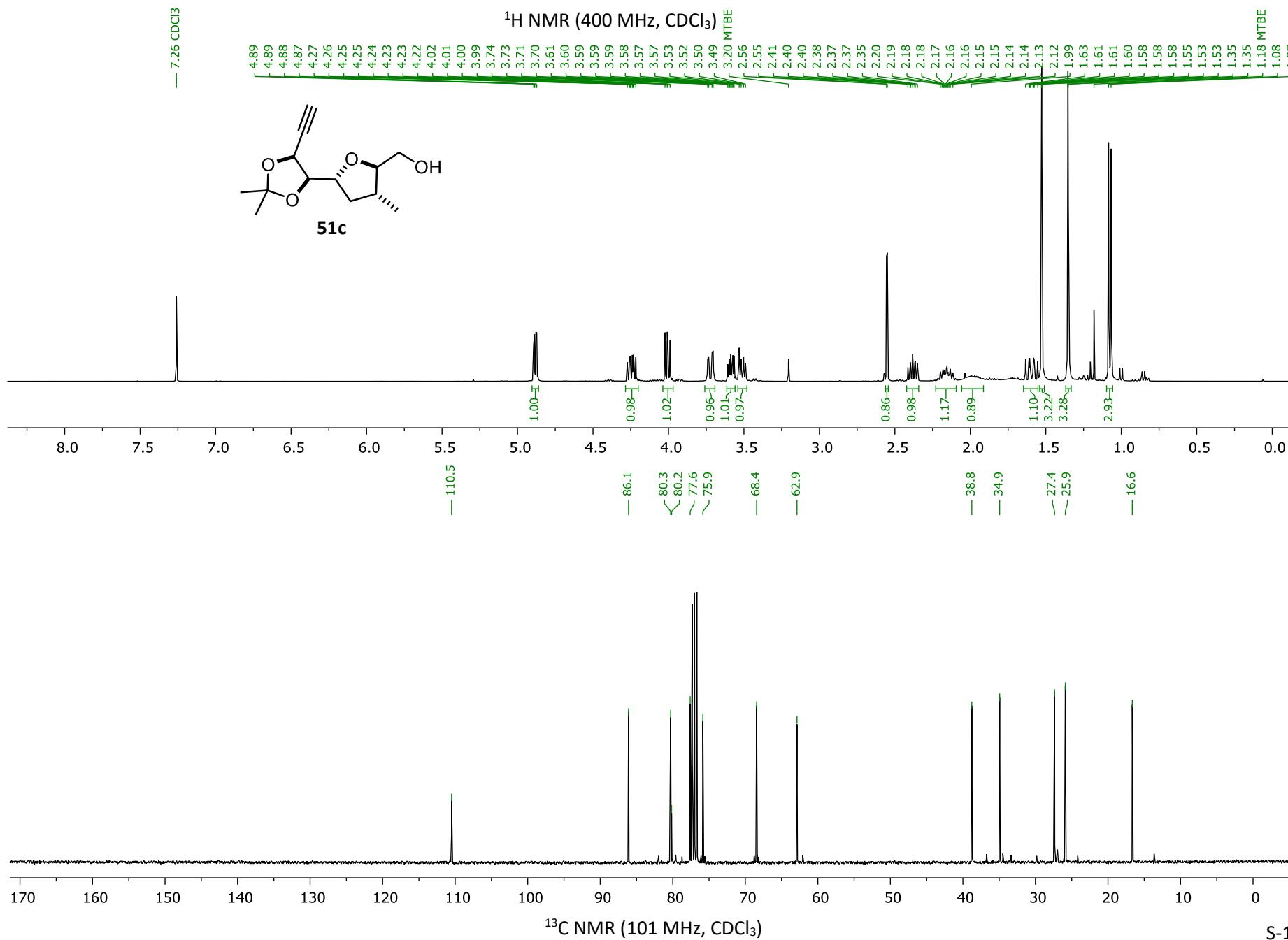


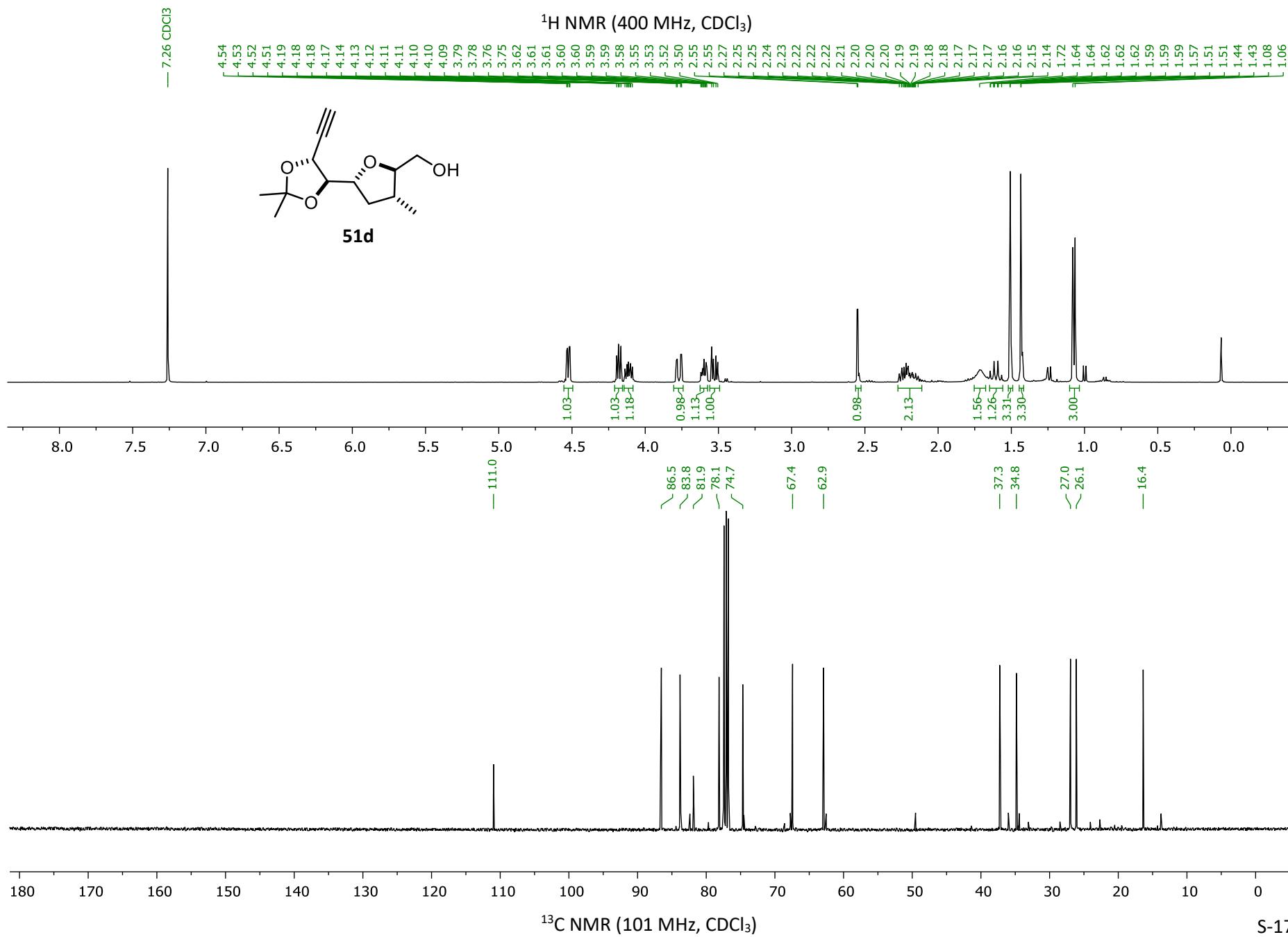


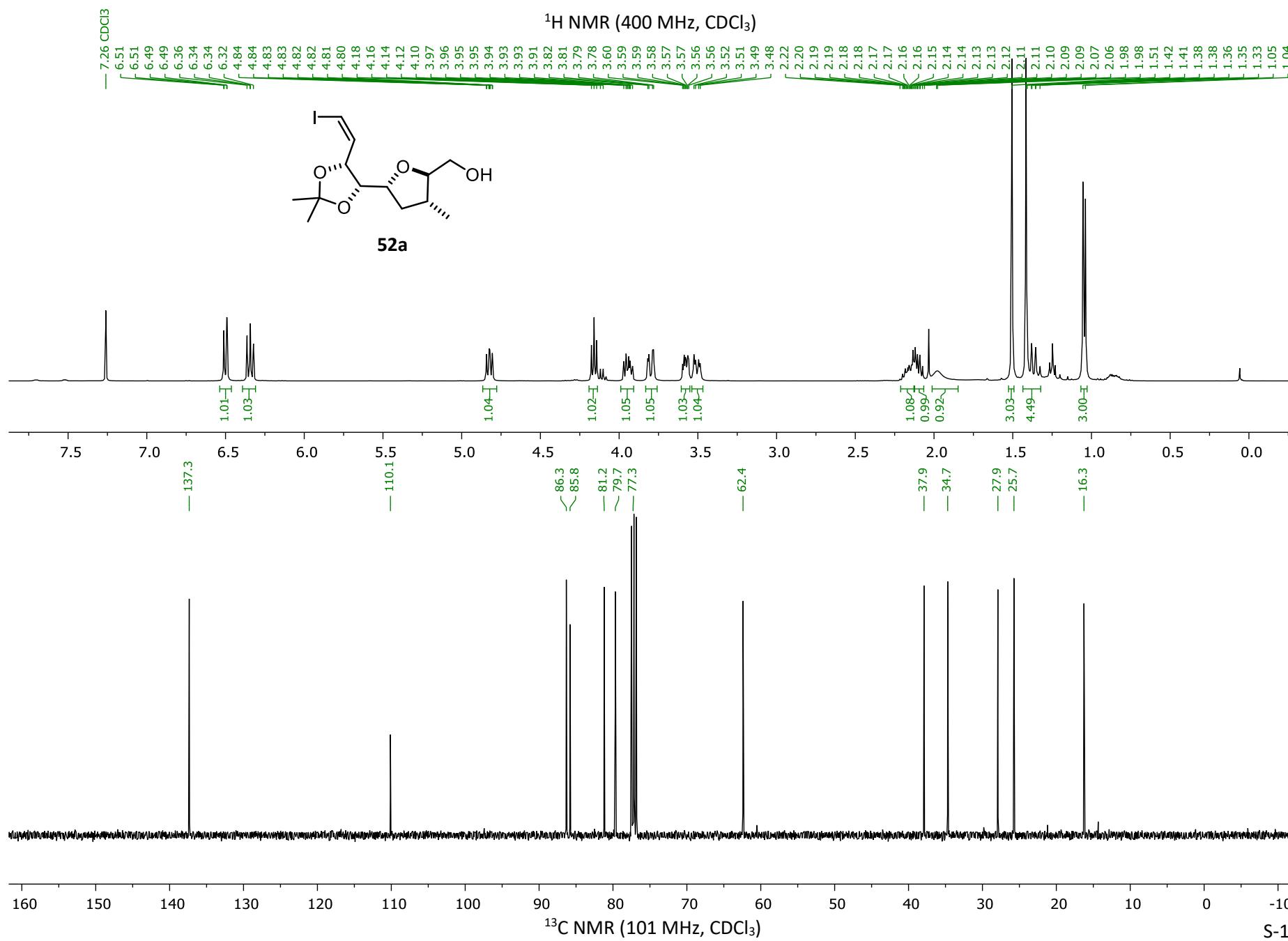


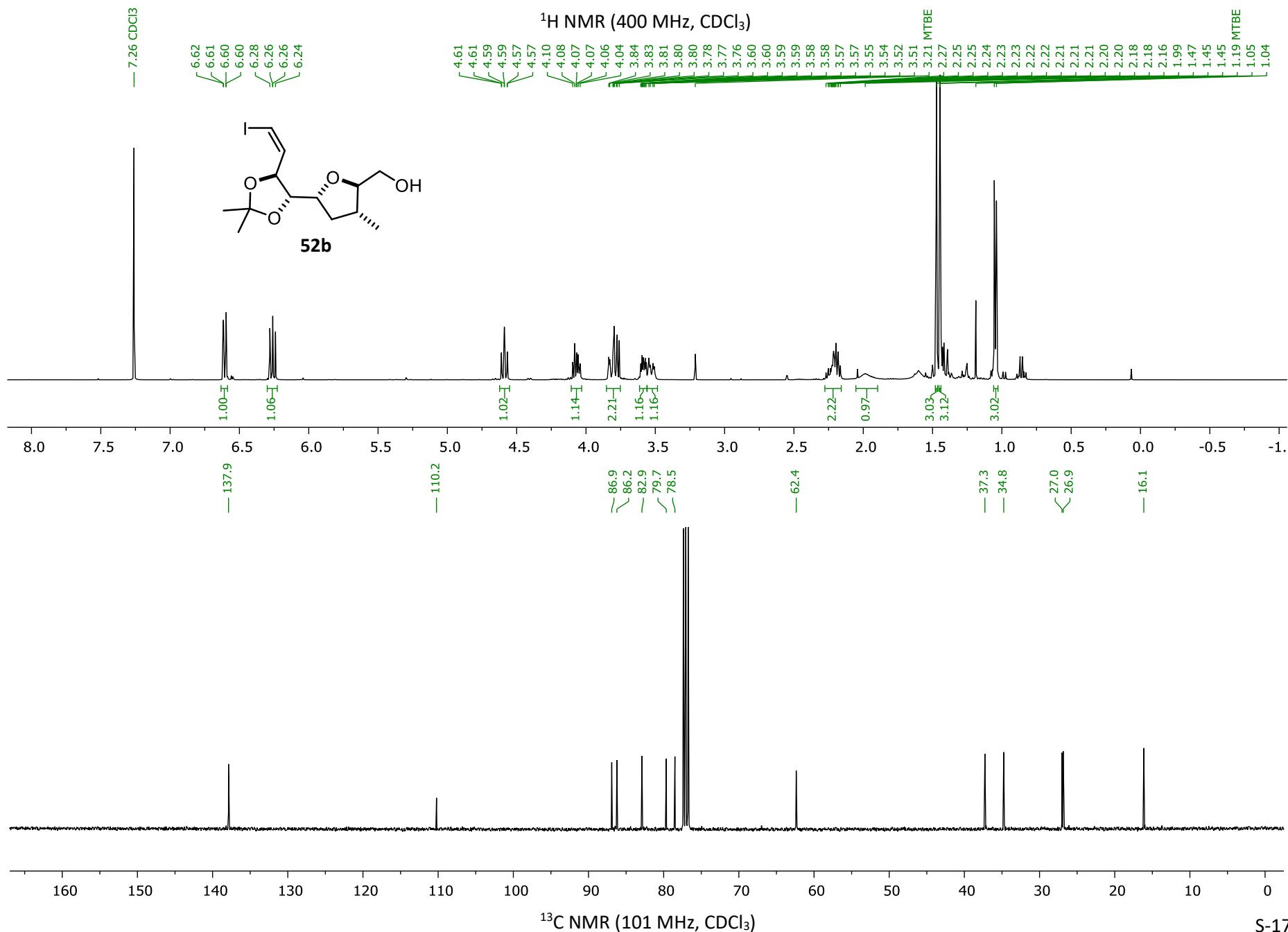


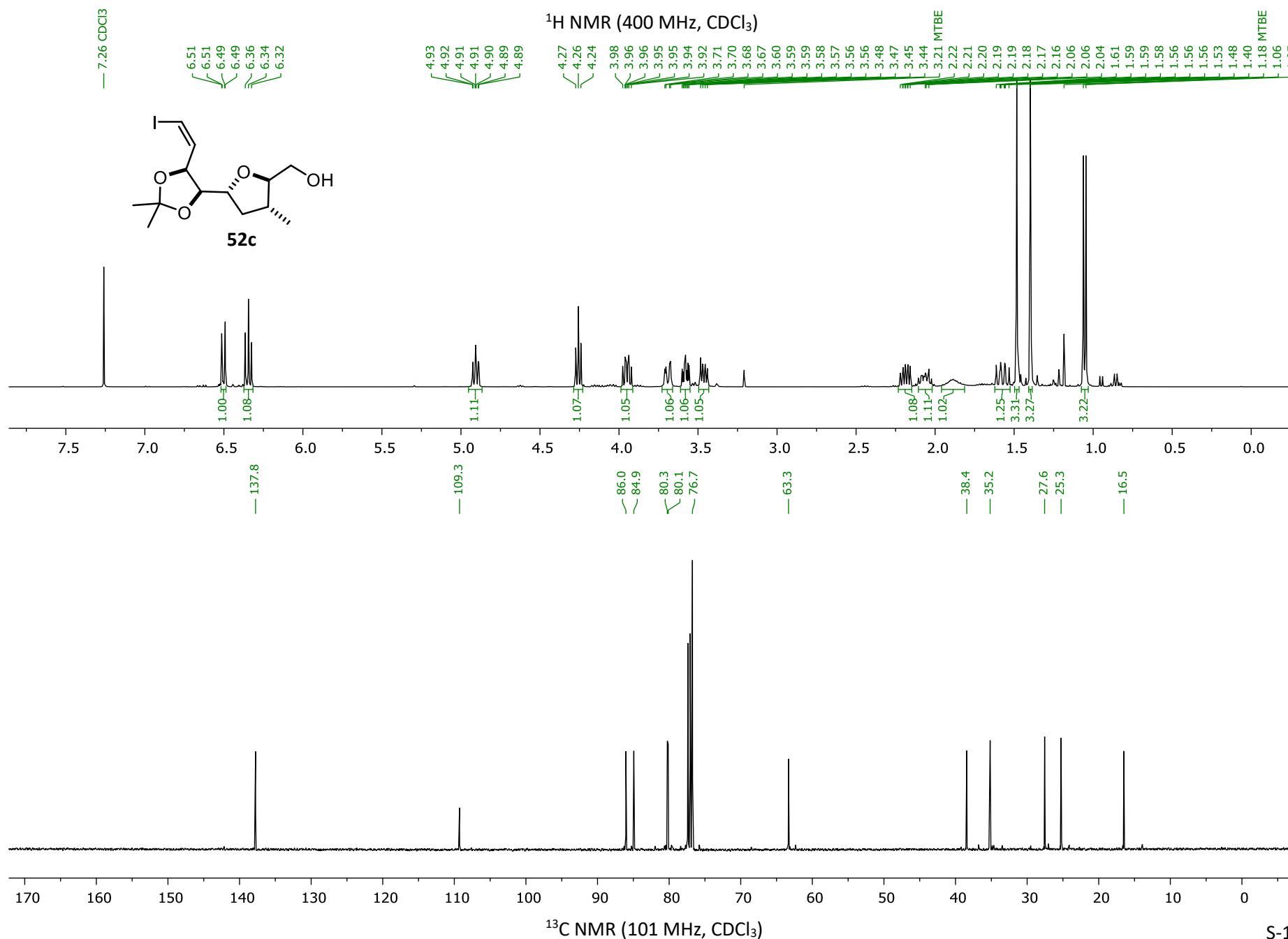


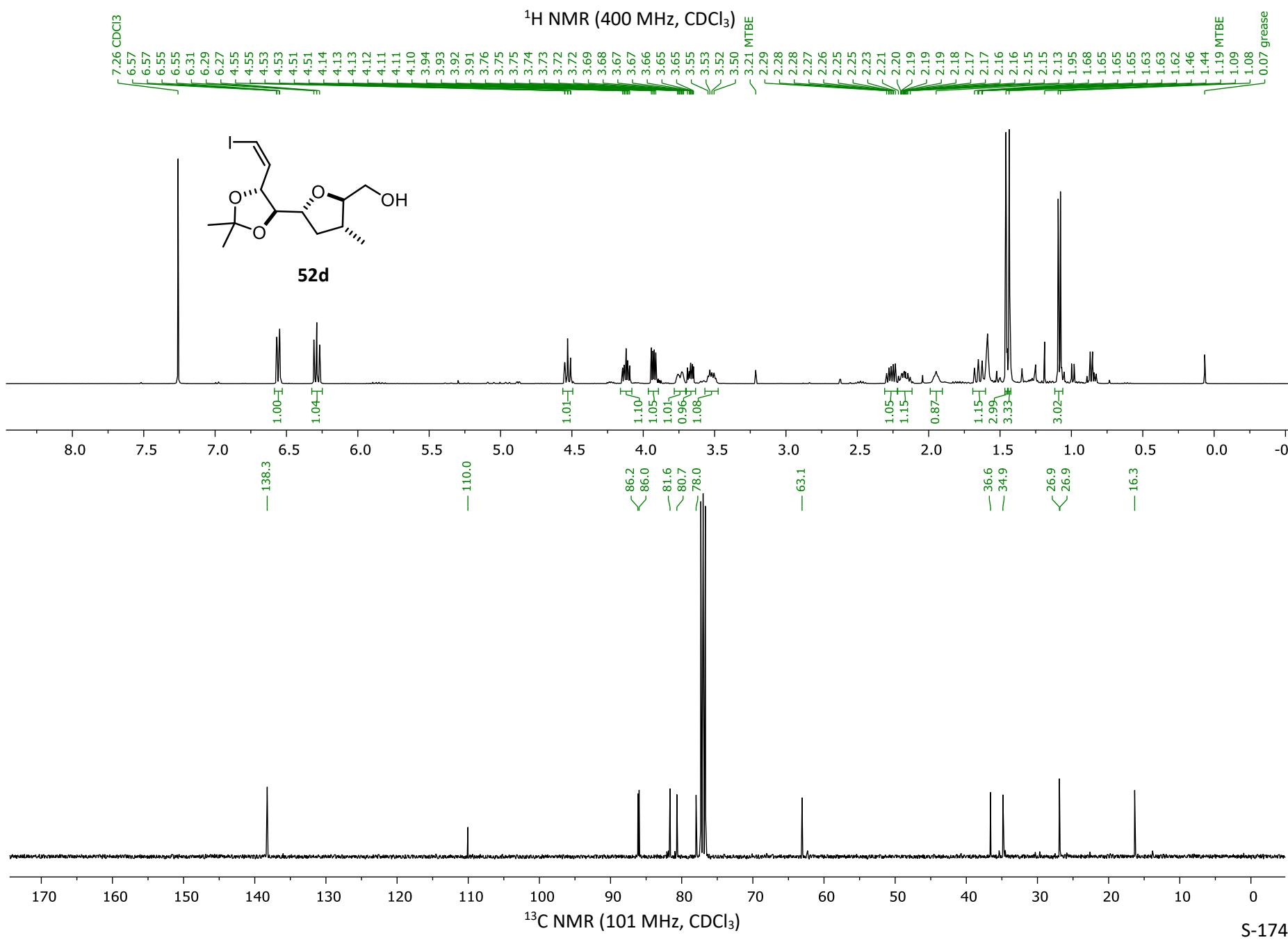


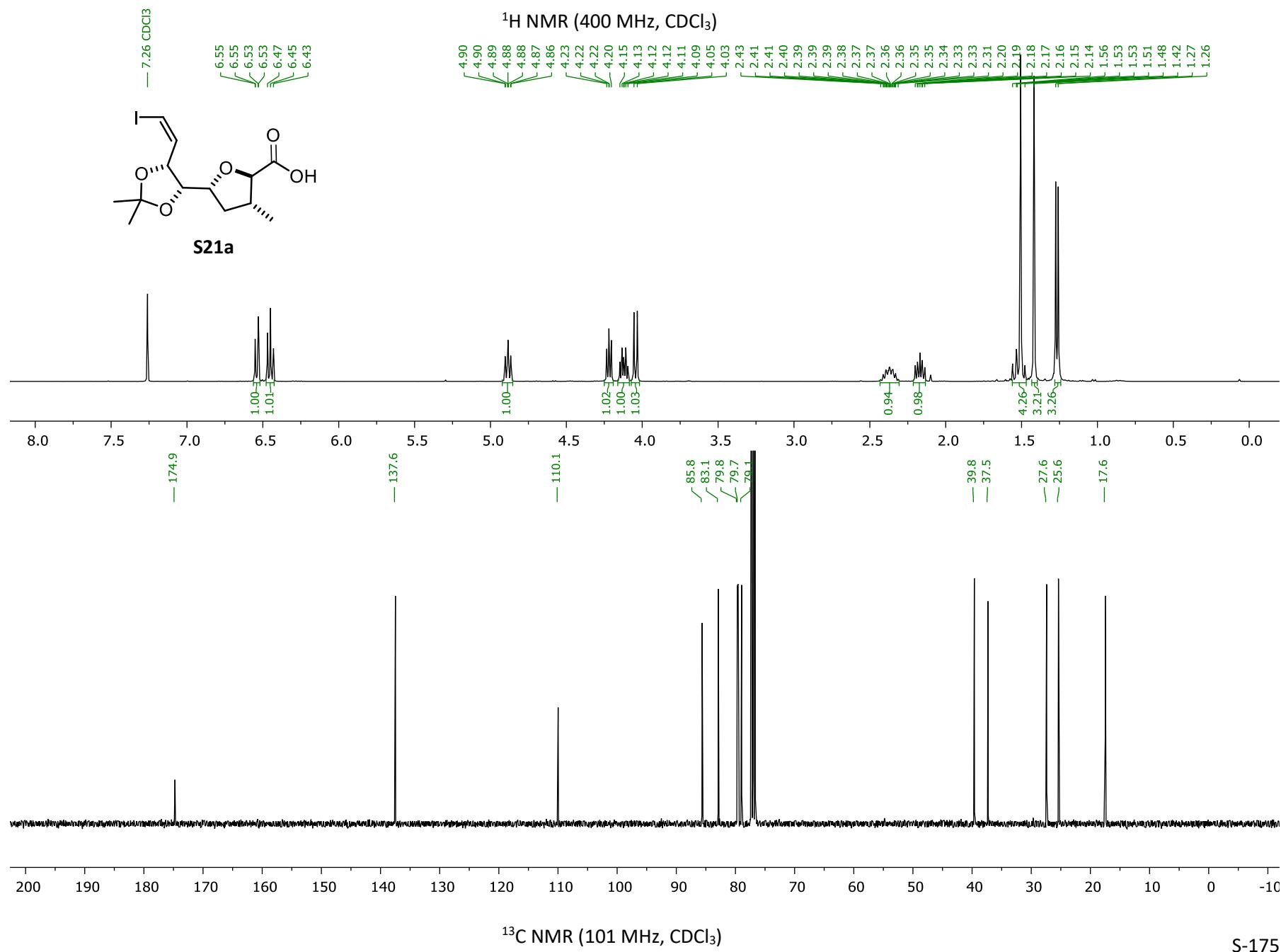


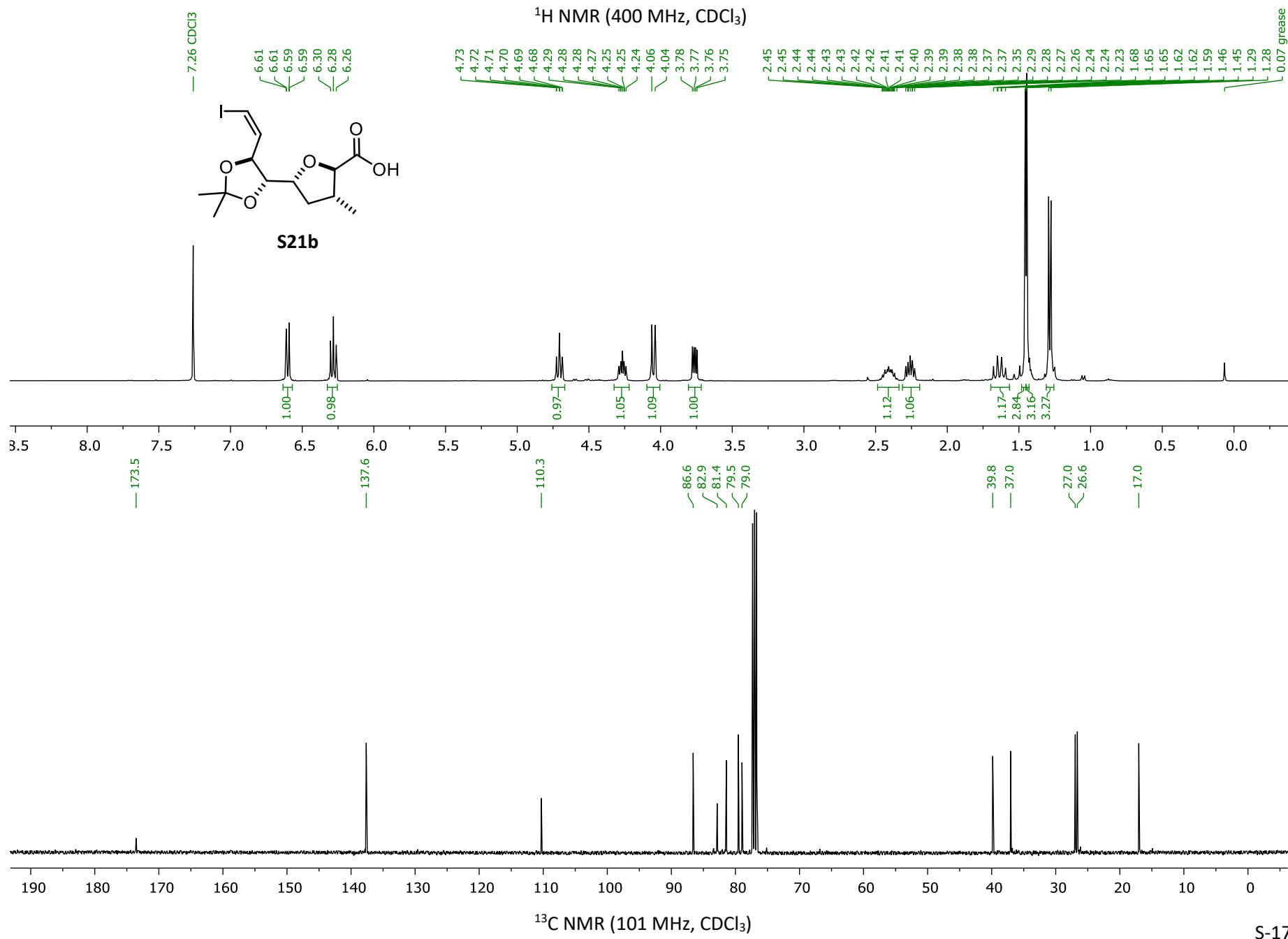


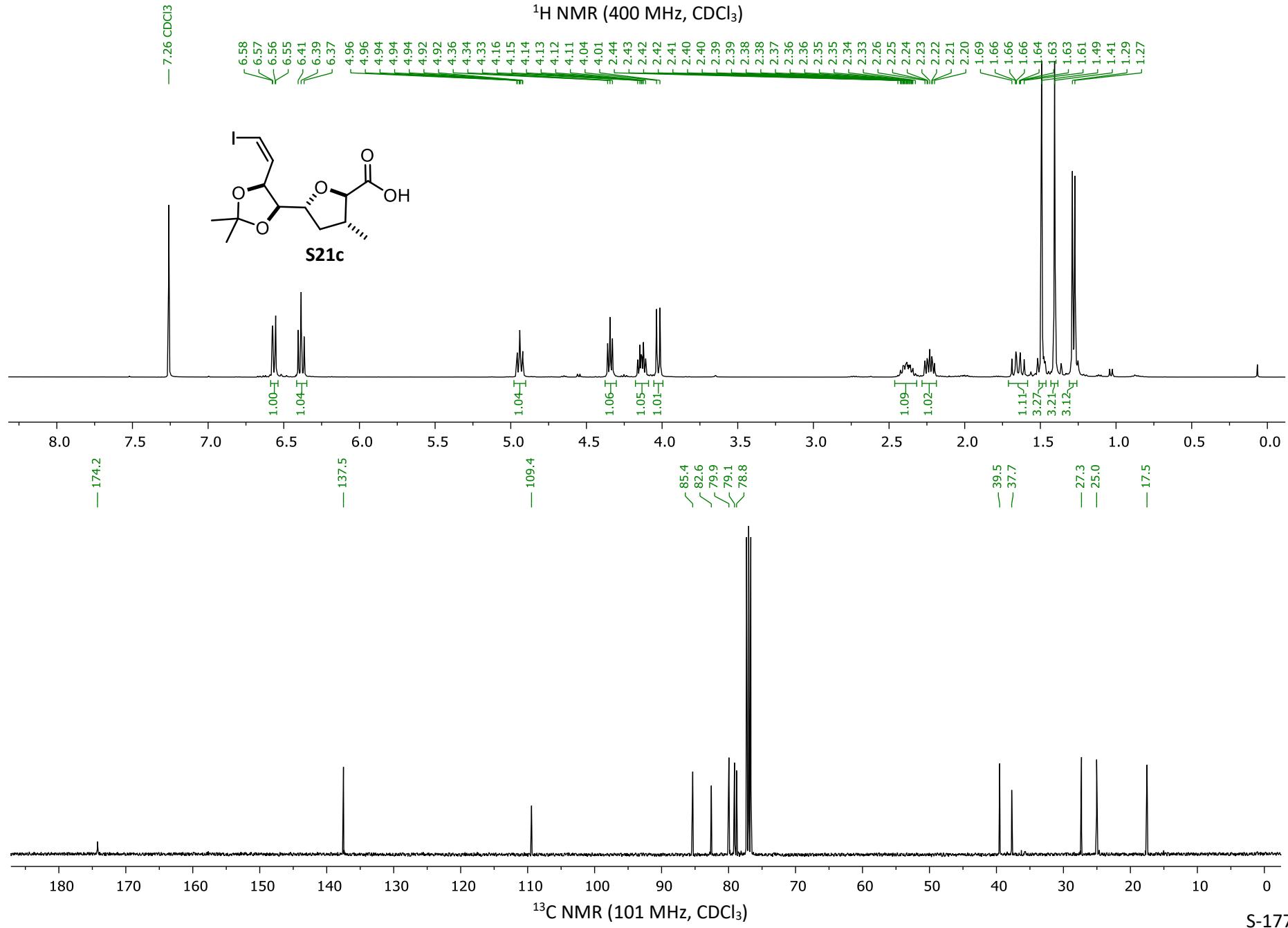








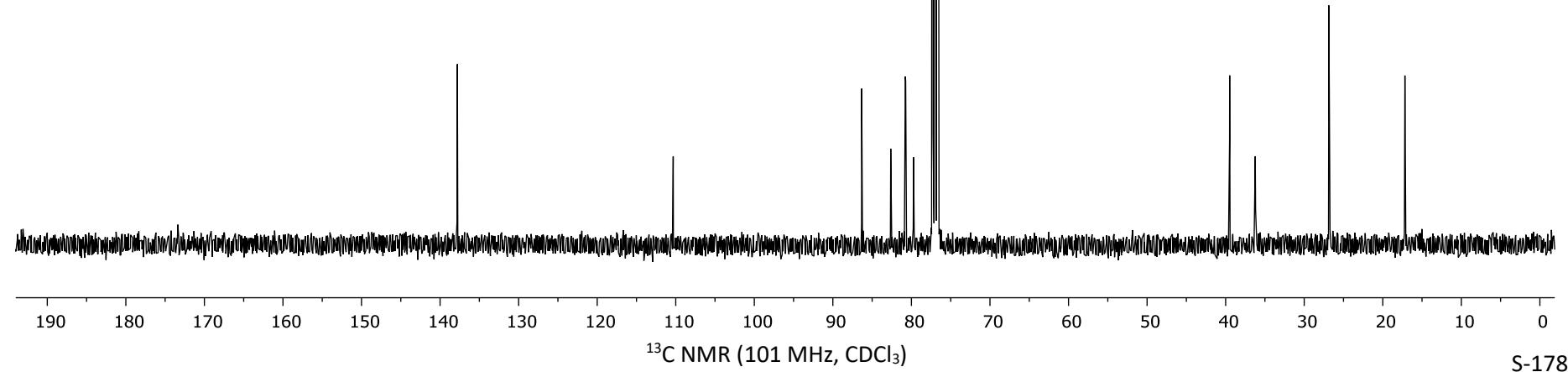


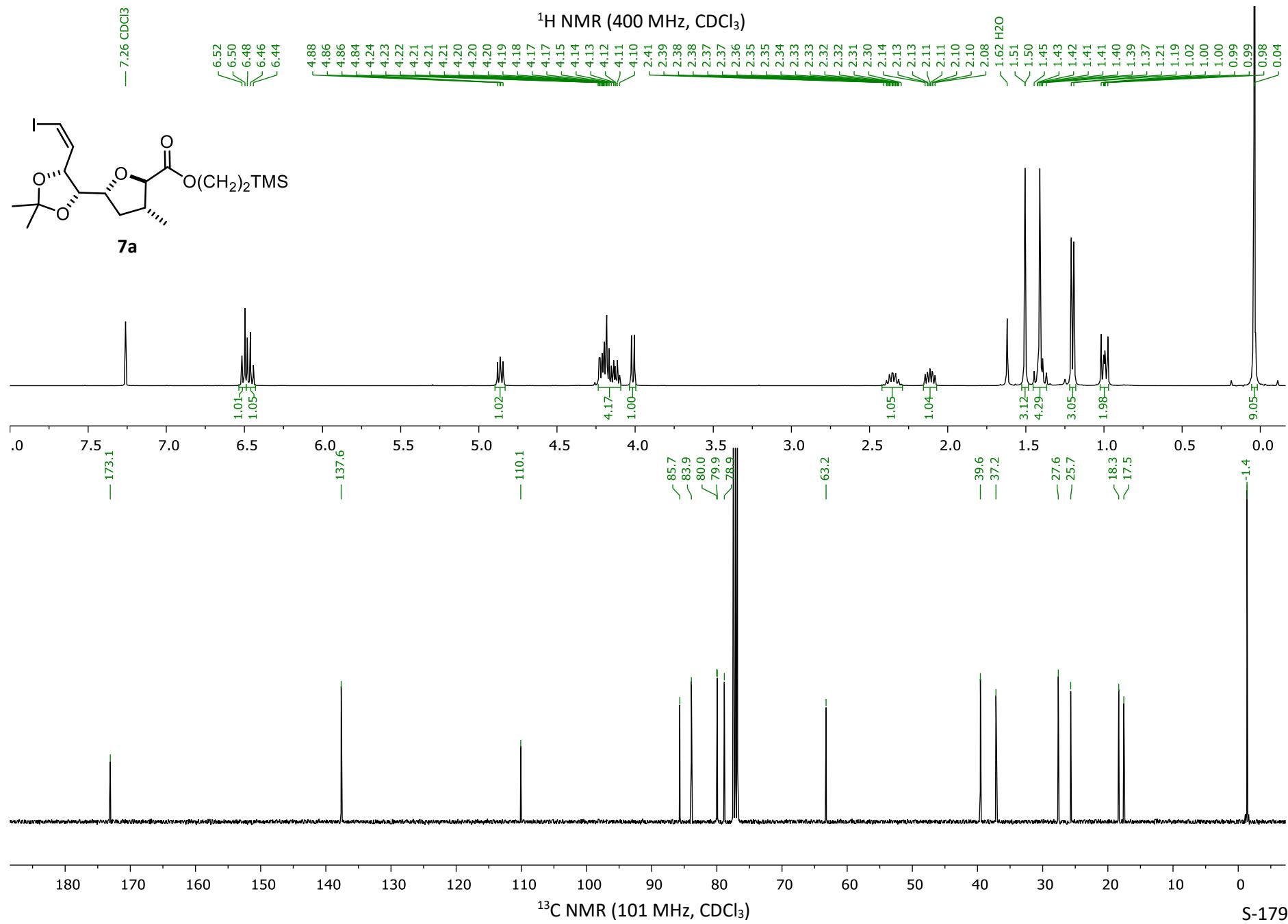


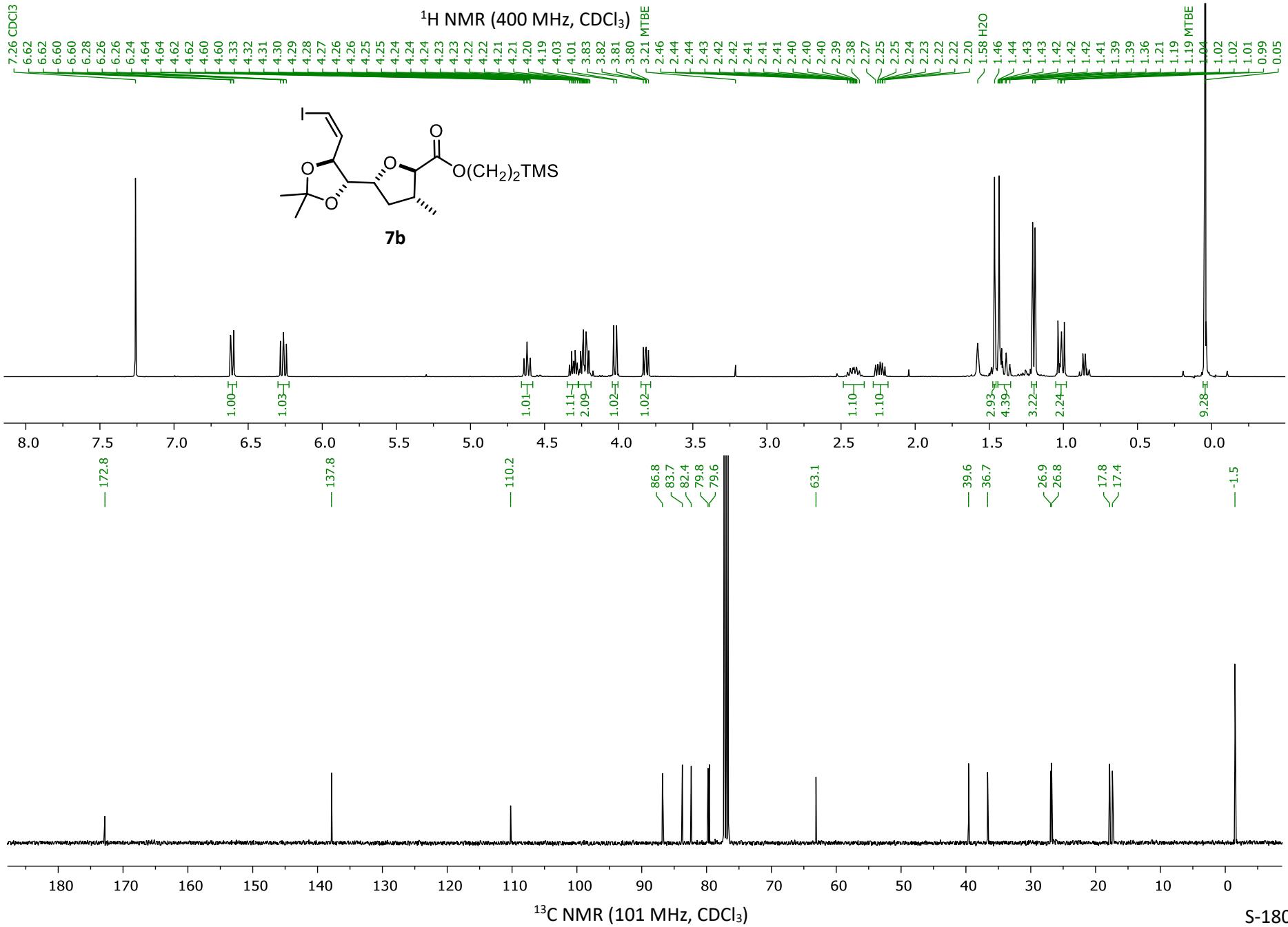
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>)

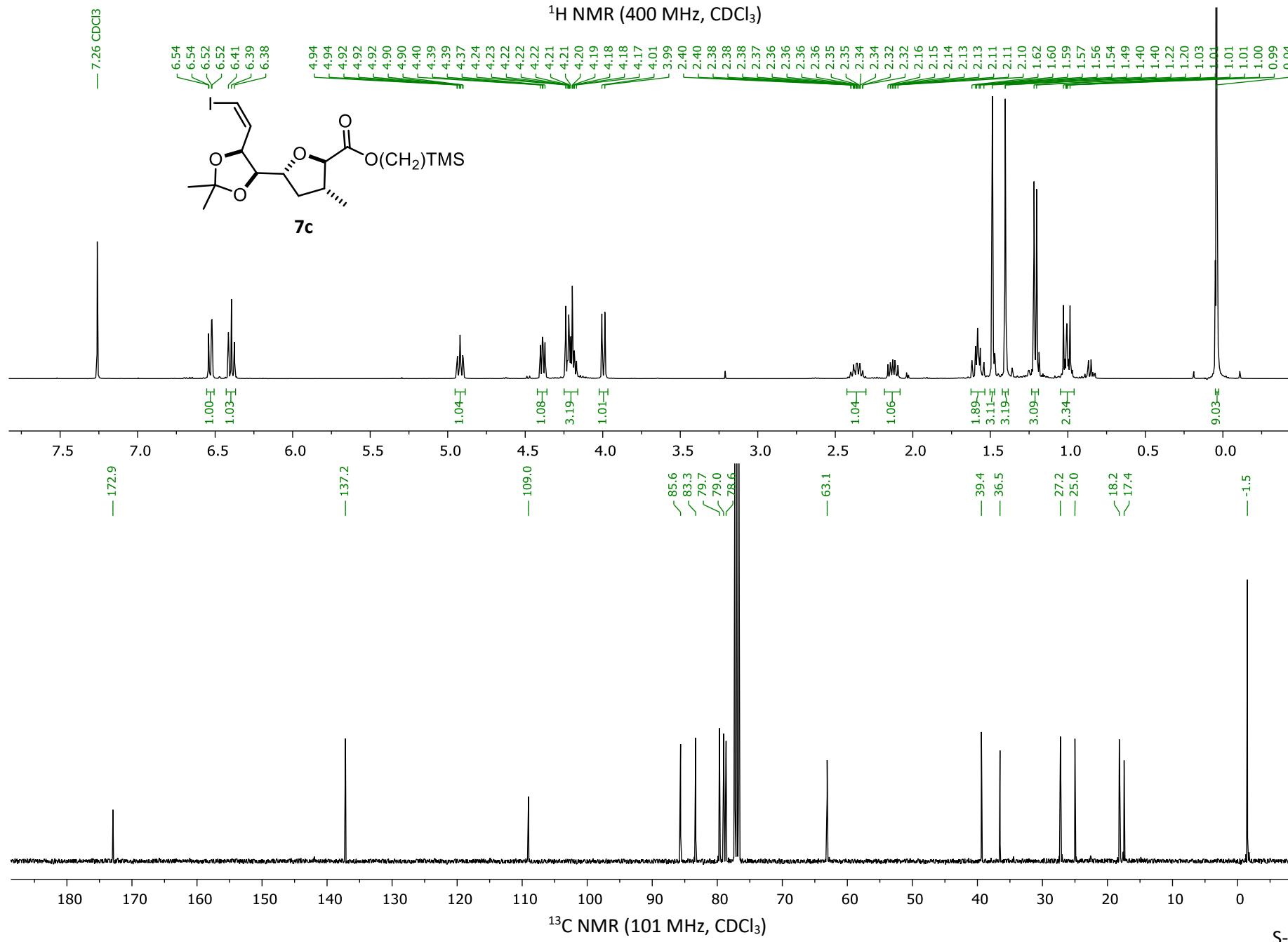
**S21d**

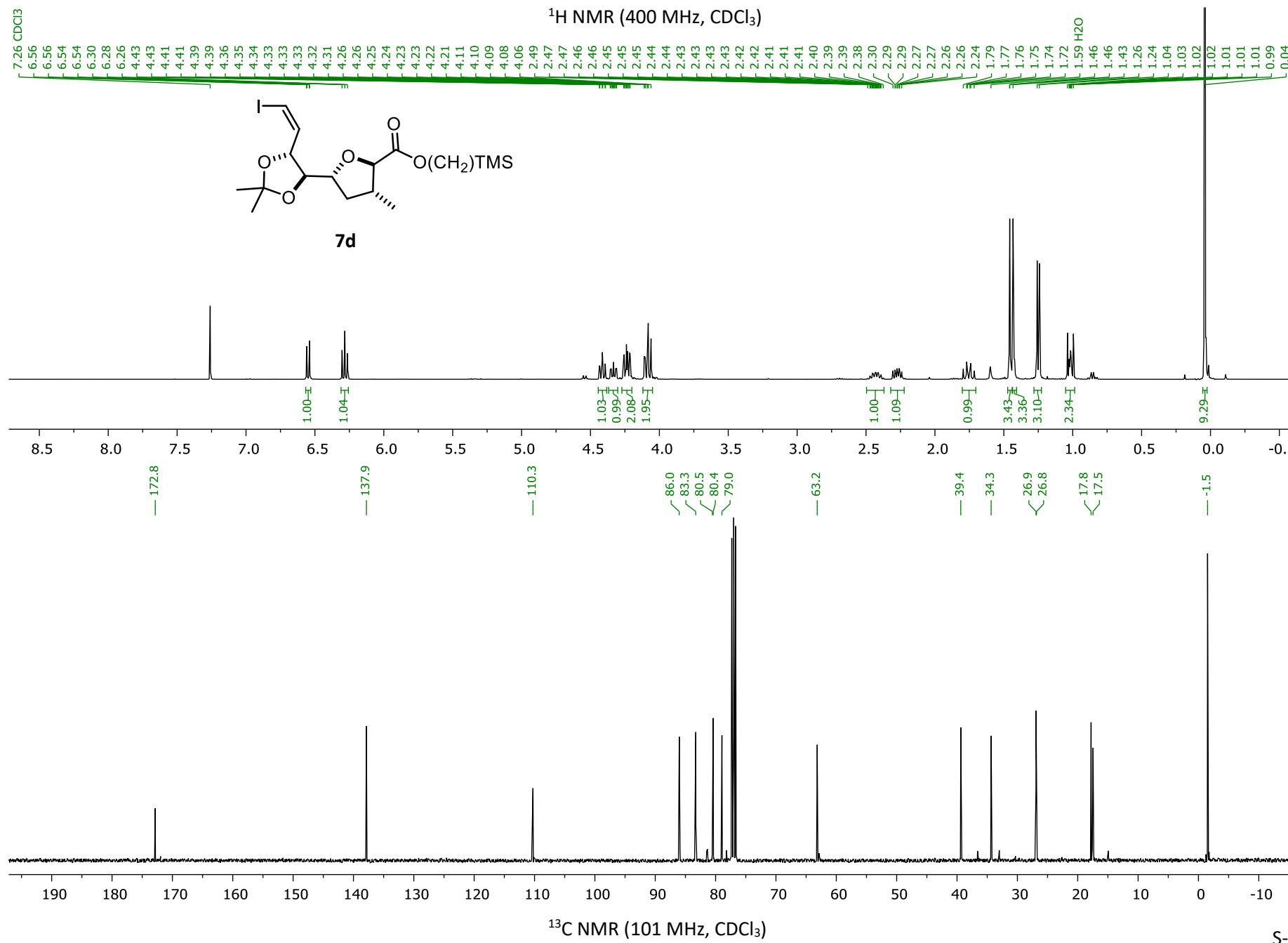
Chemical structure of compound S21d is shown above the spectrum. It features a chiral center with a phenyl ring substituted with a 2-hydroxyethyl group, a 2-hydroxypropyl group, and a 2-hydroxybutyl group. The hydroxyl groups are highlighted in red.

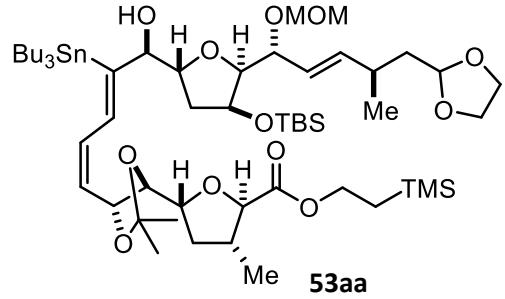
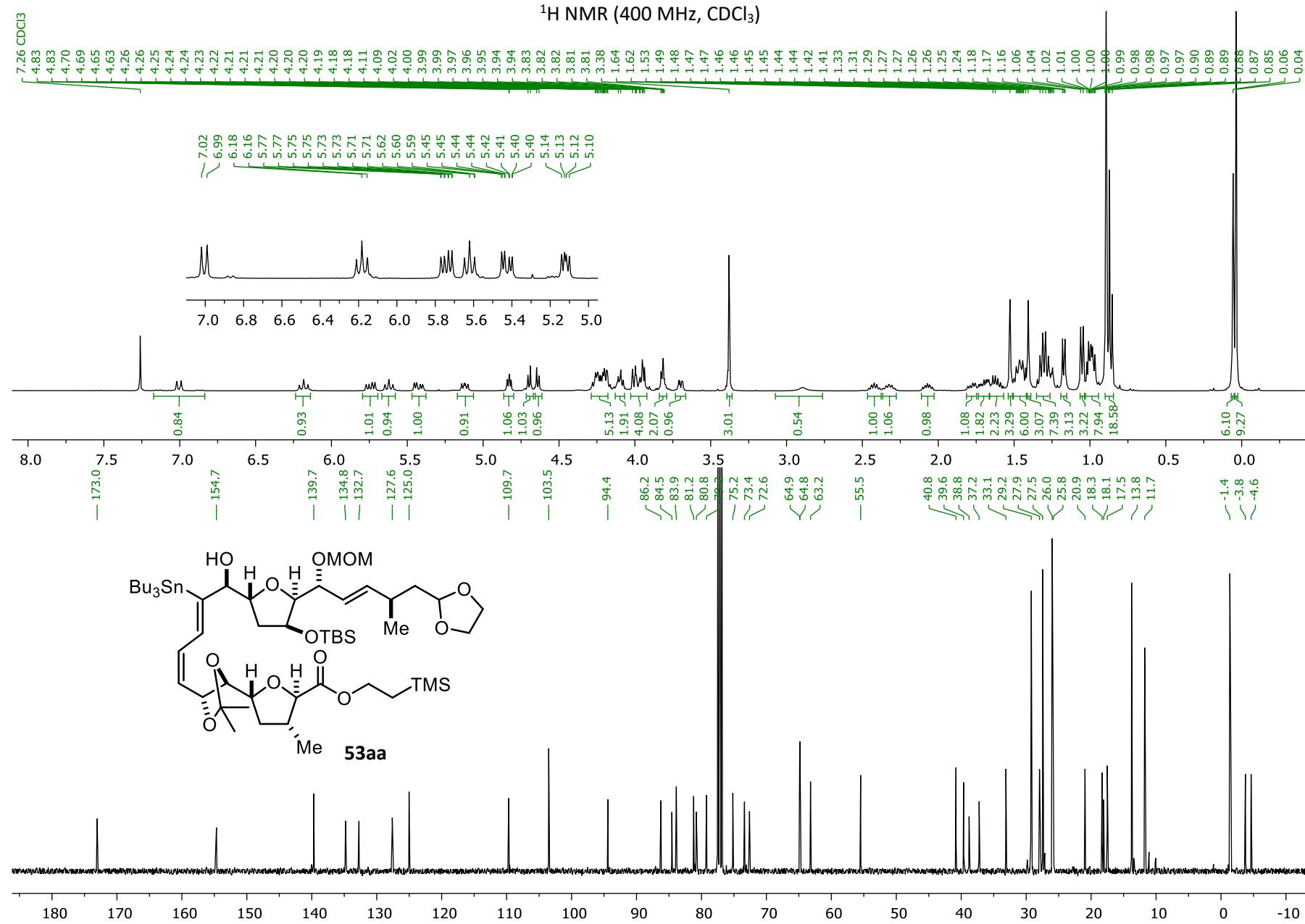




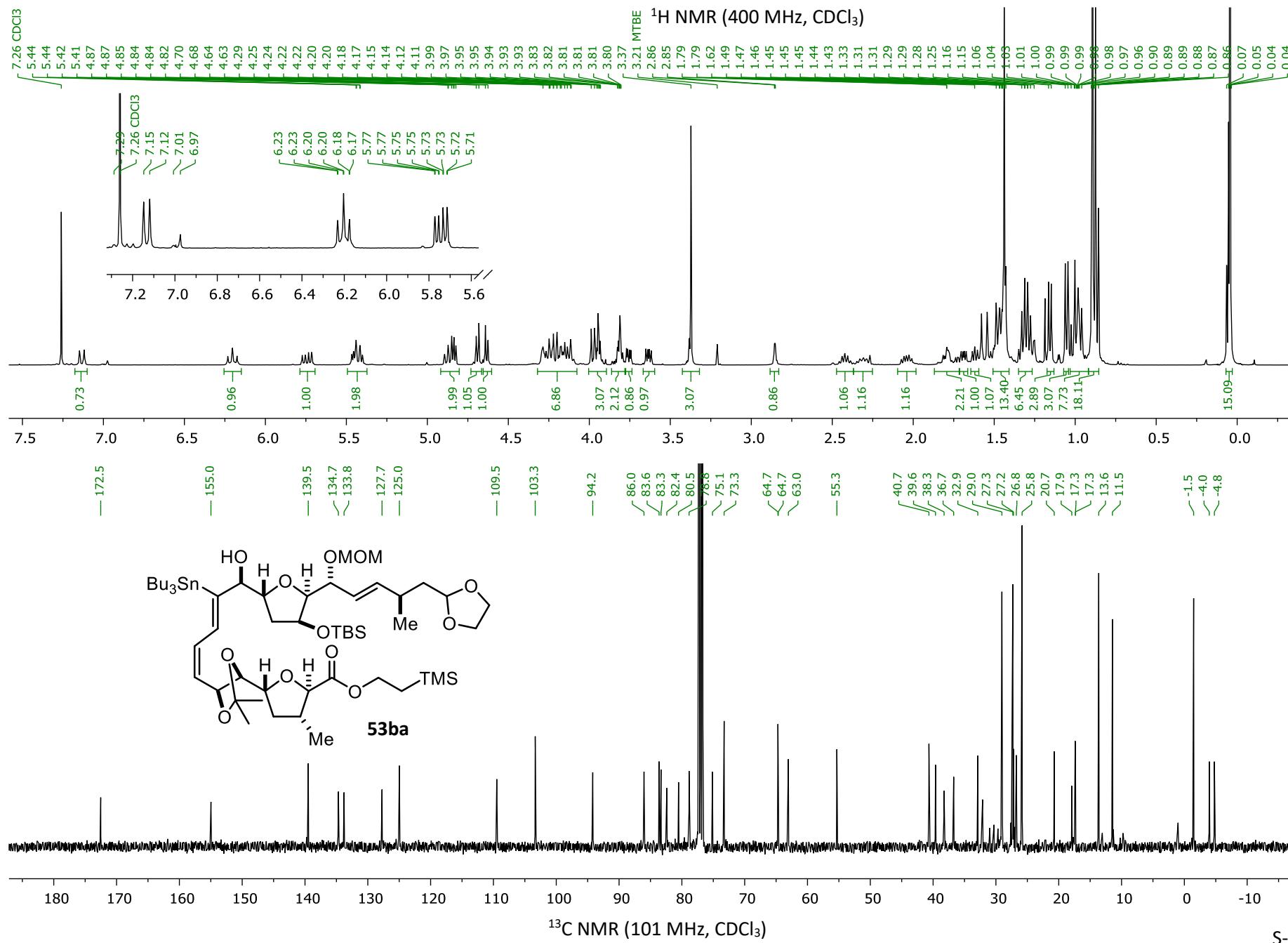


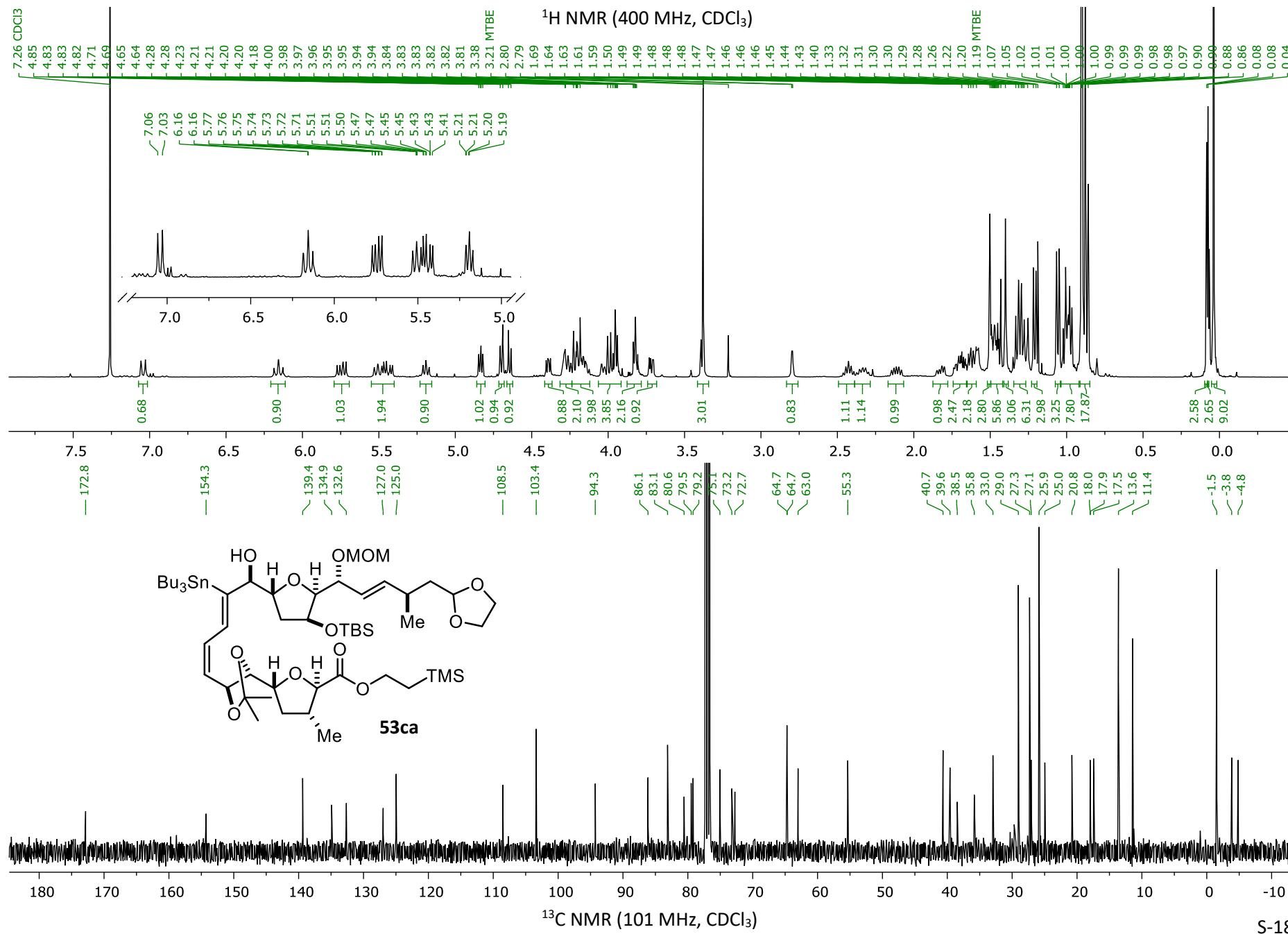


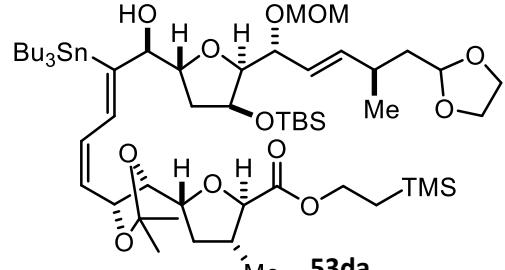
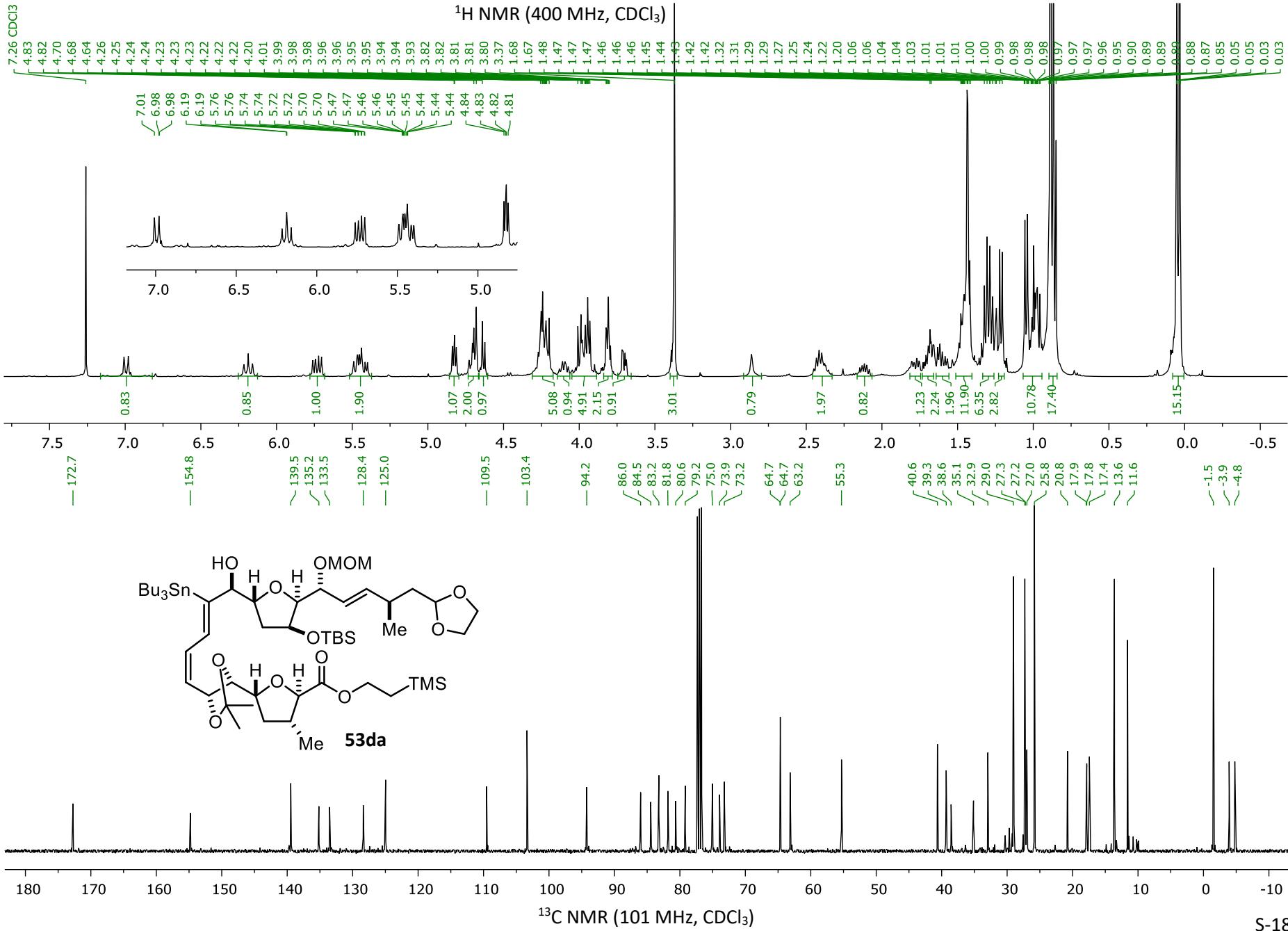


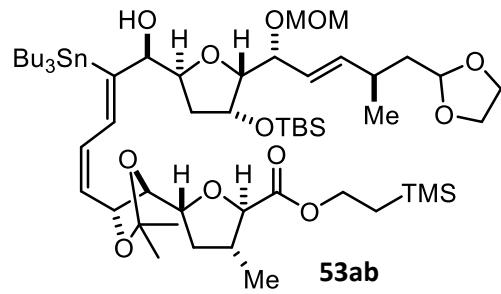
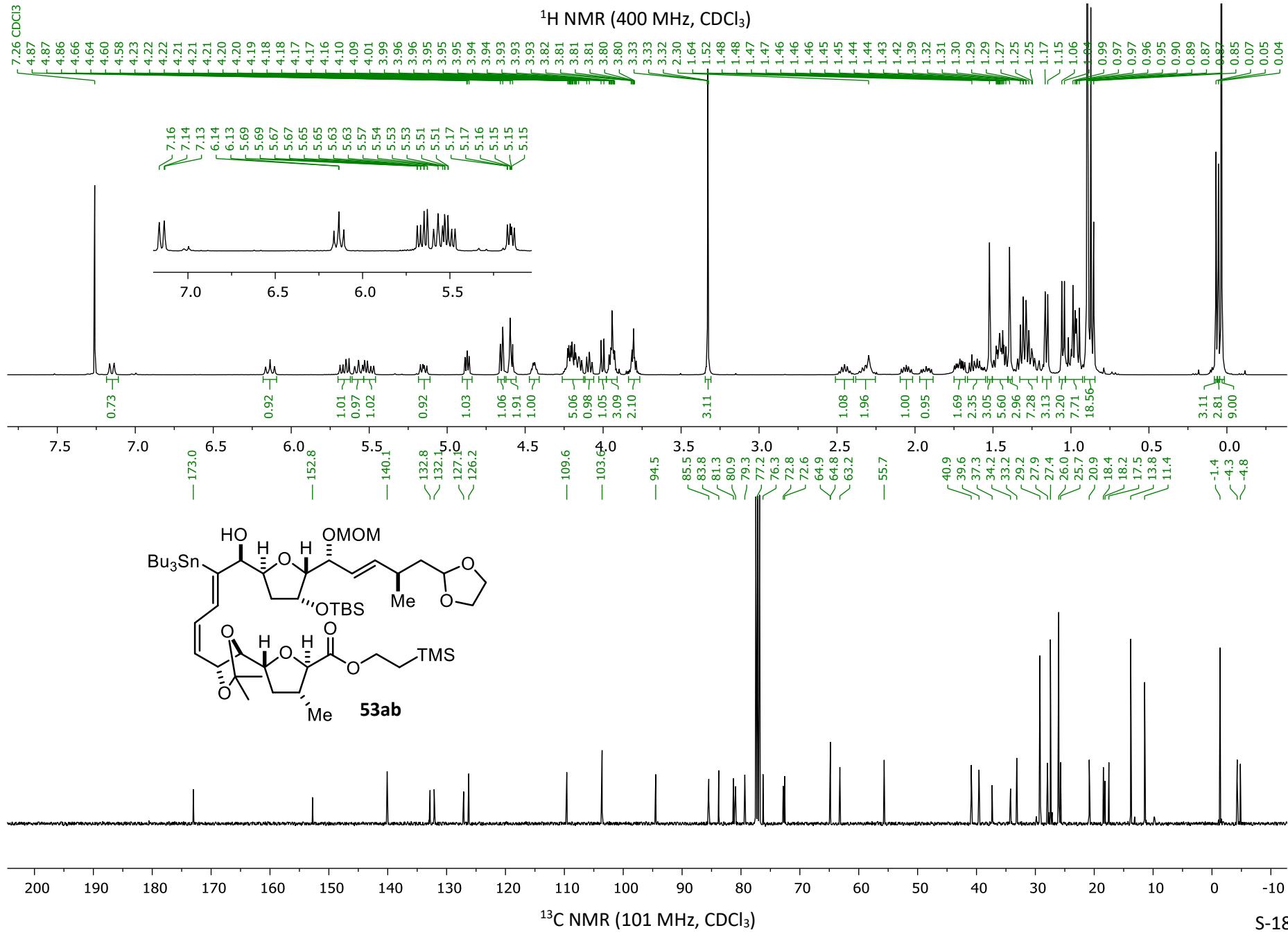


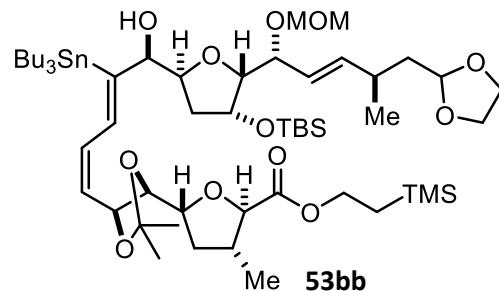
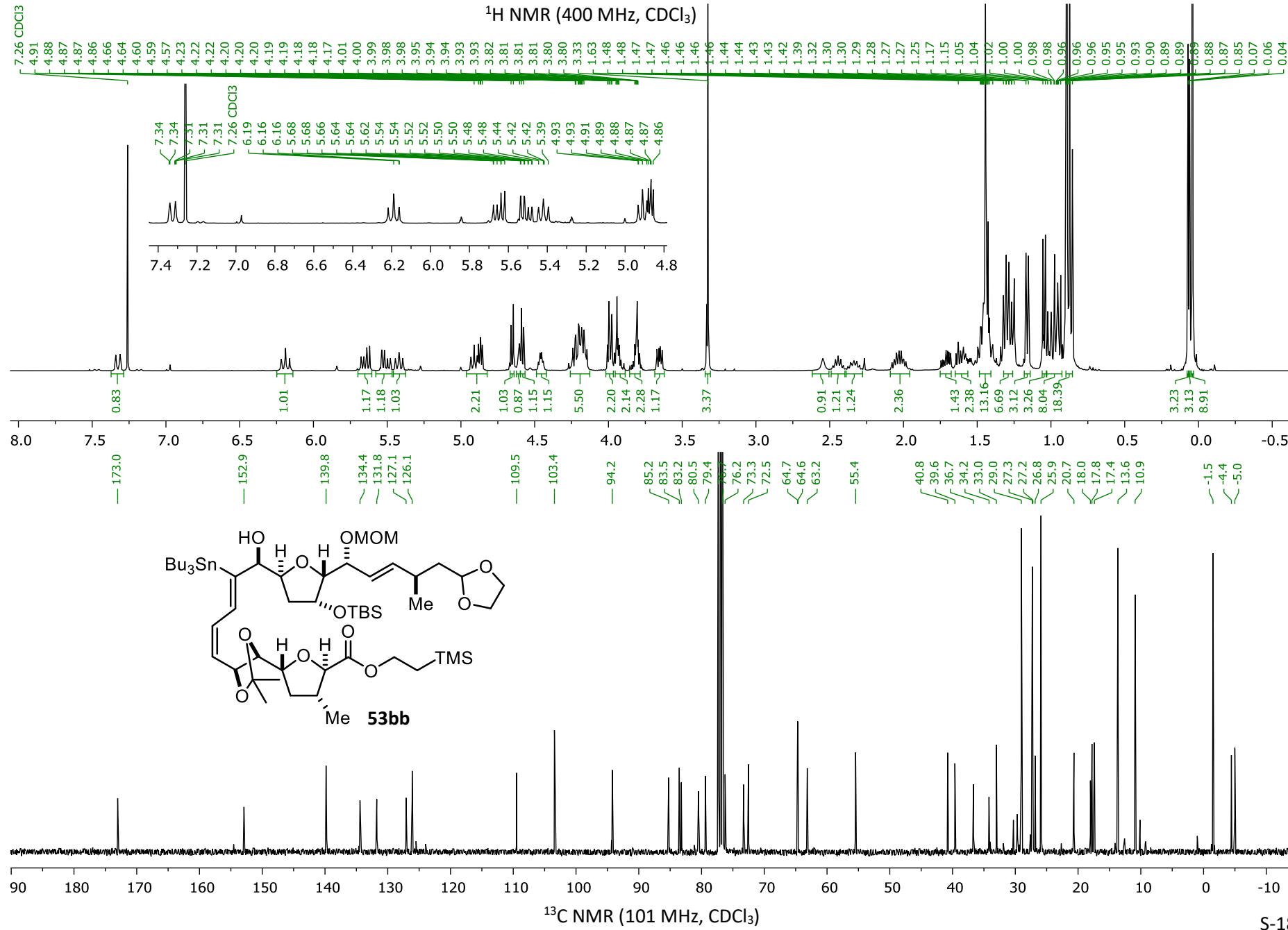
<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>)

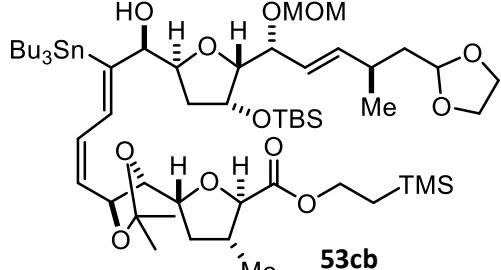
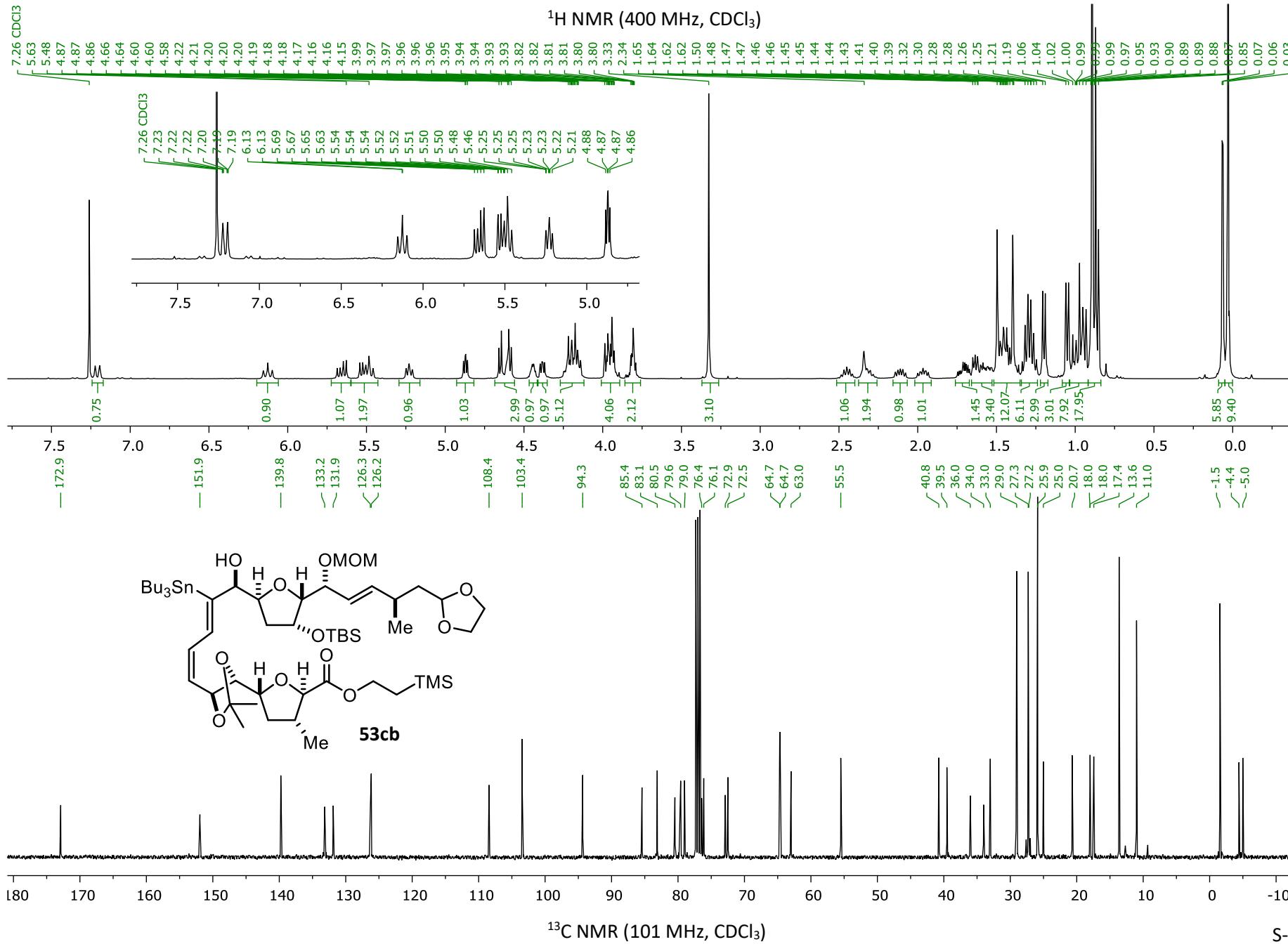


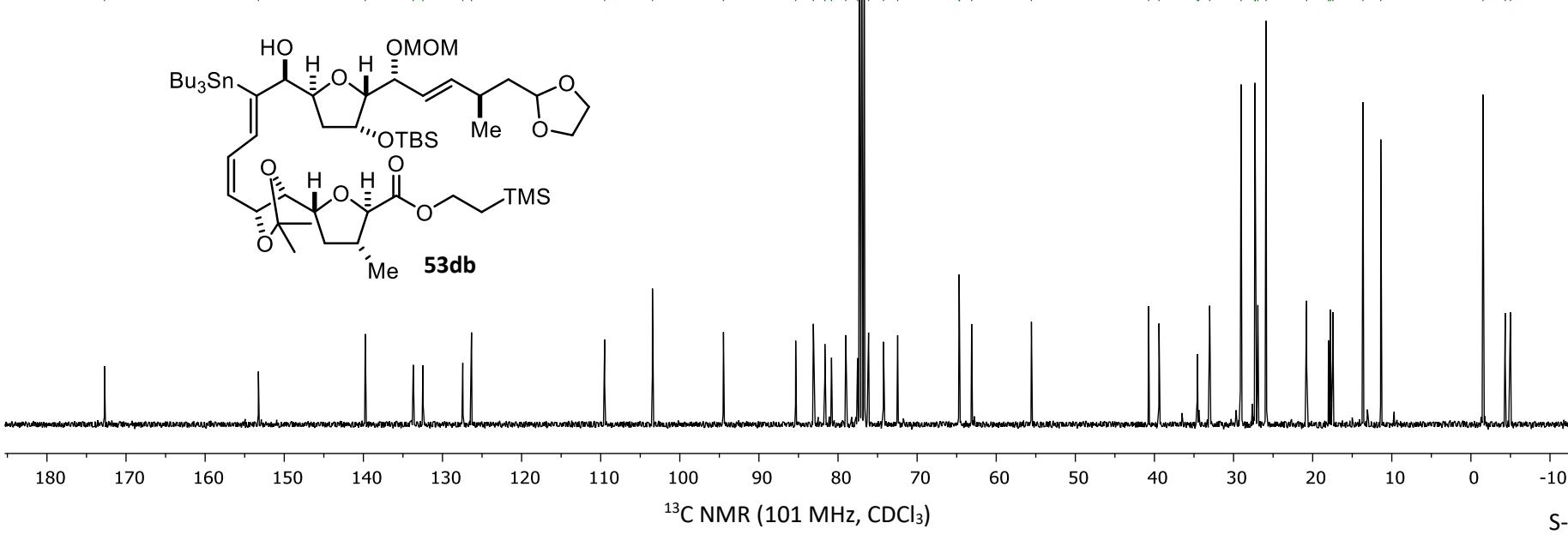
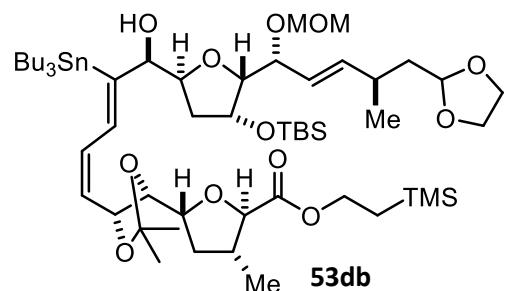
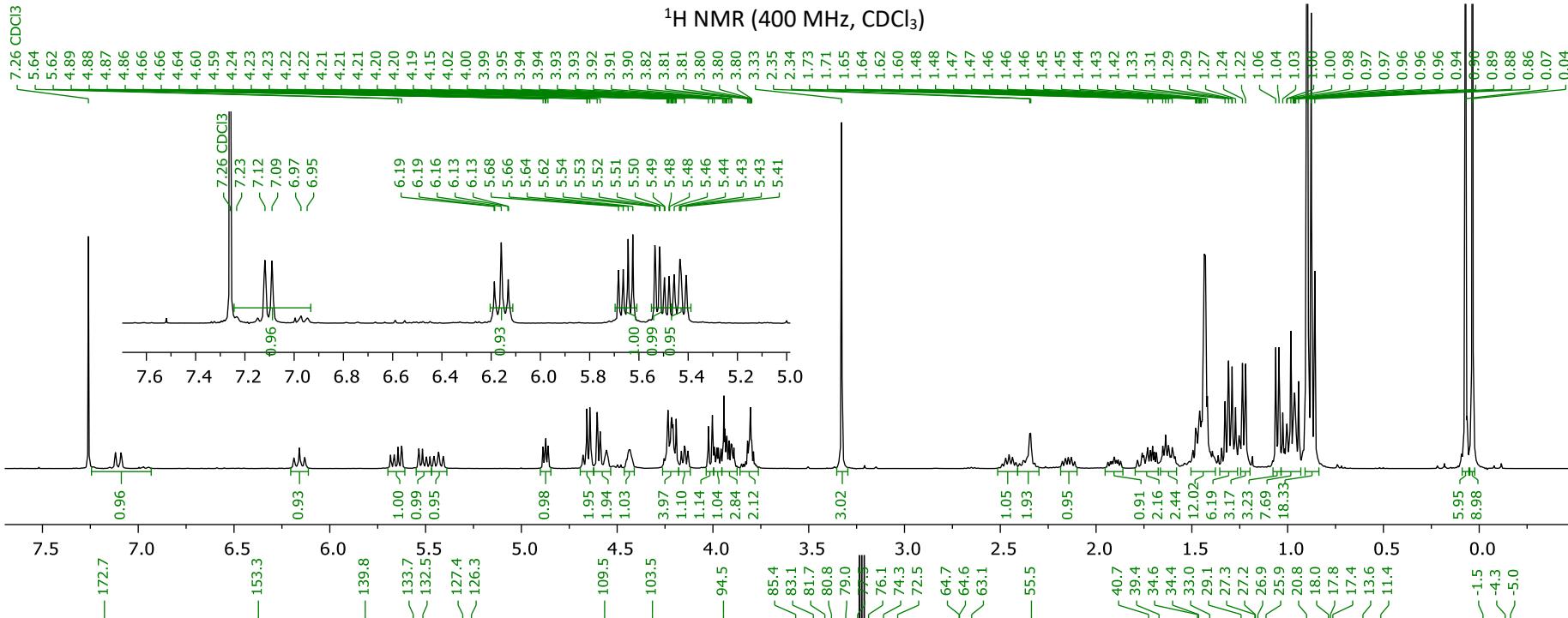


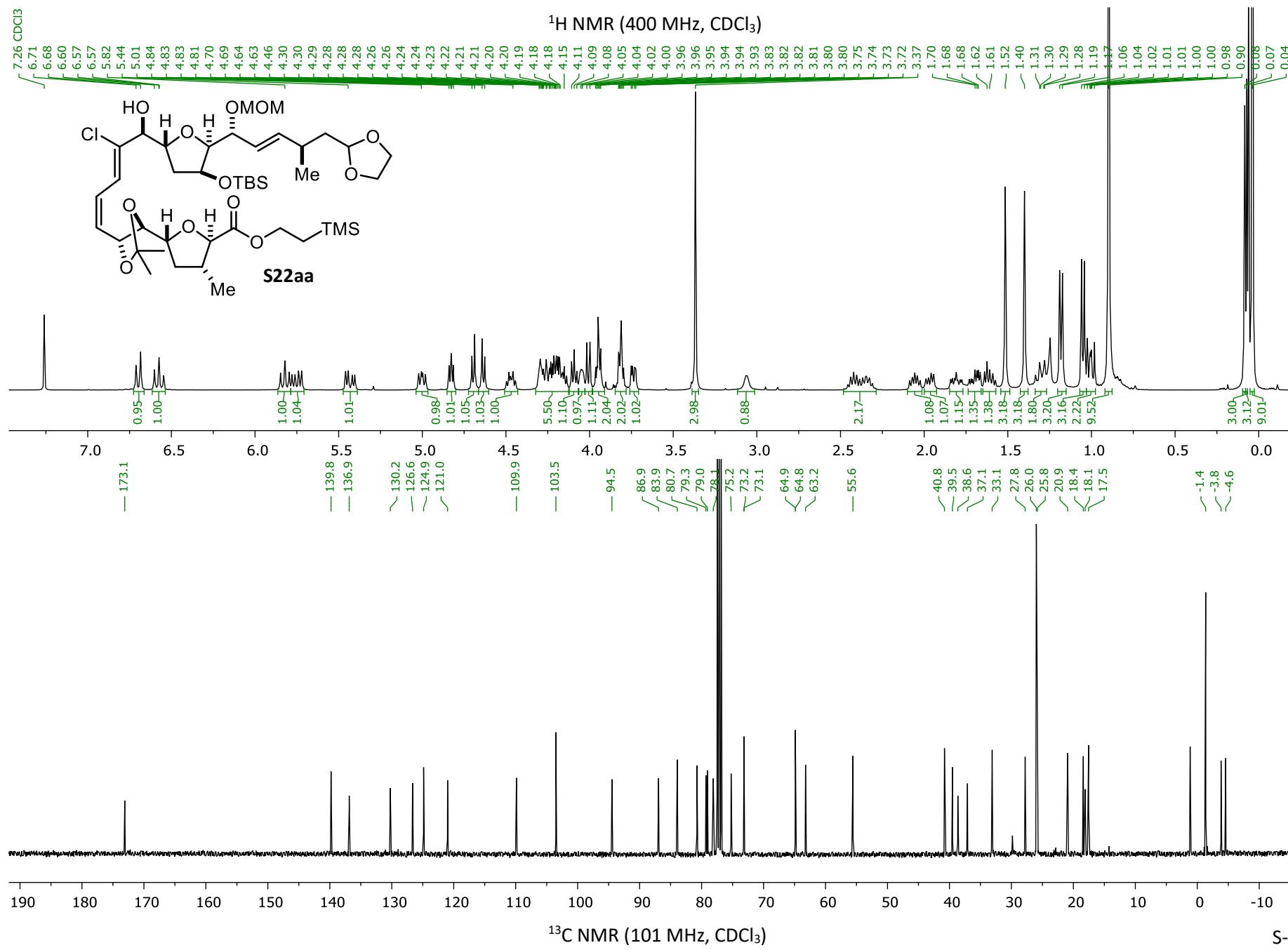


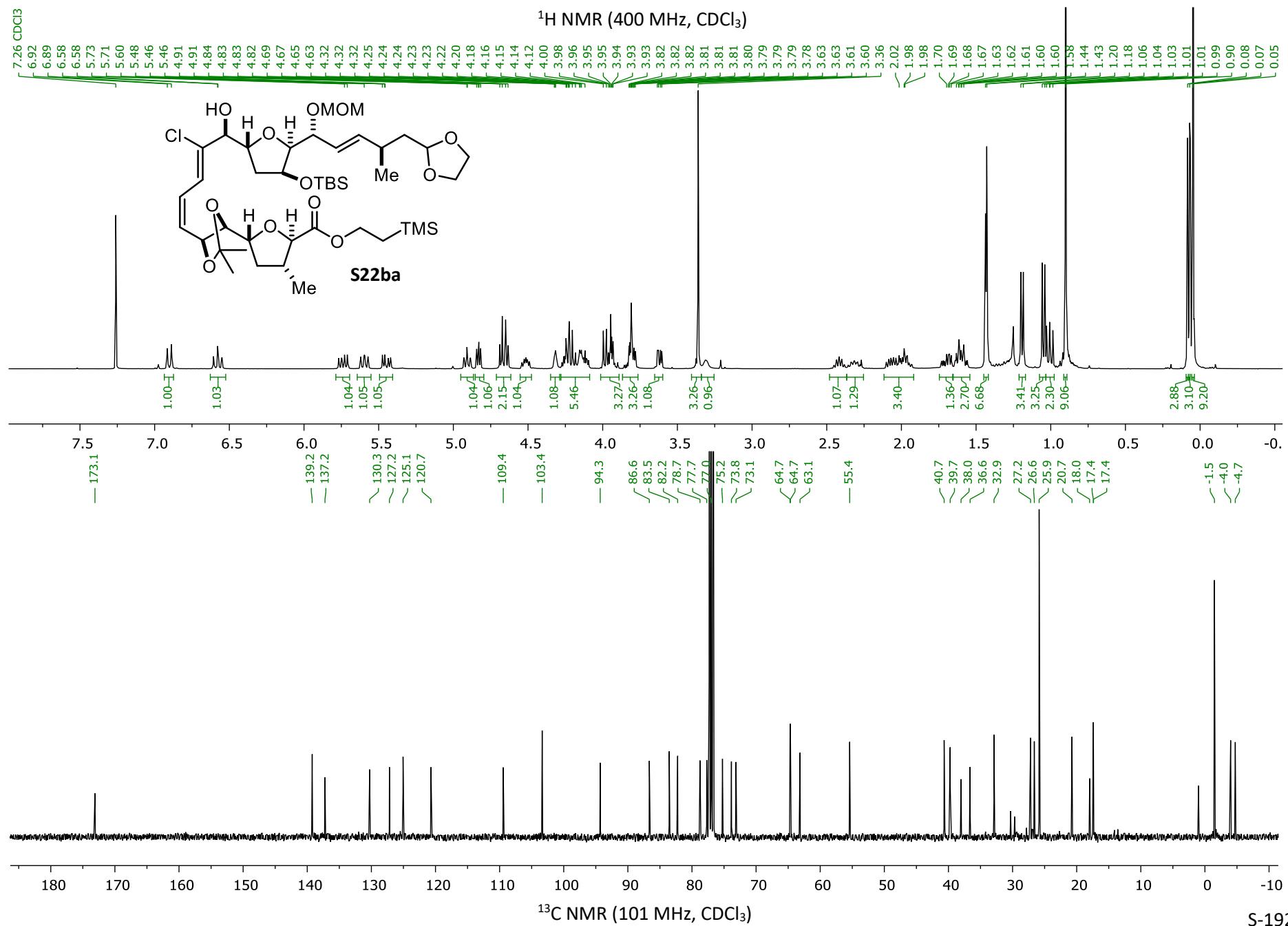


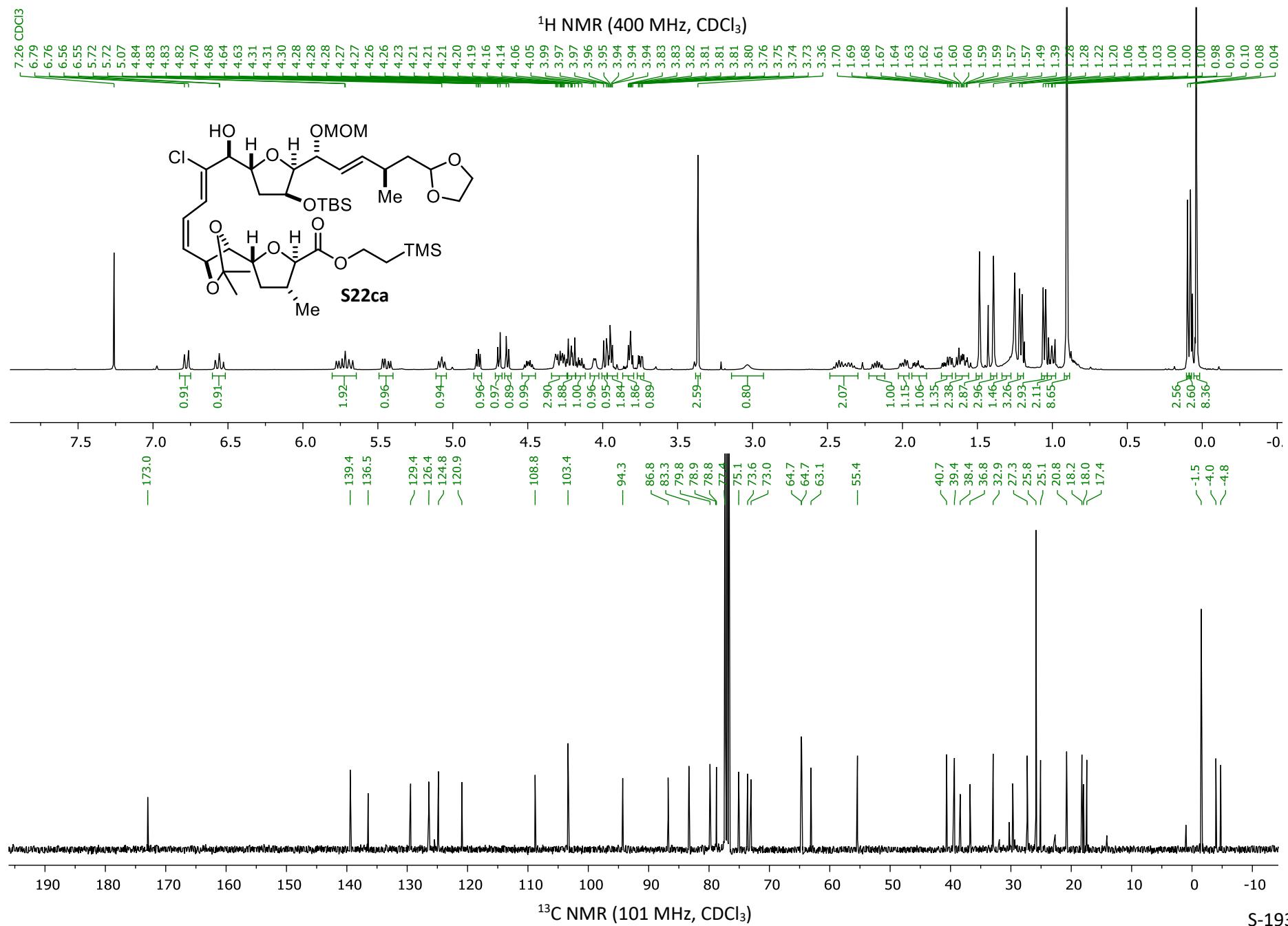


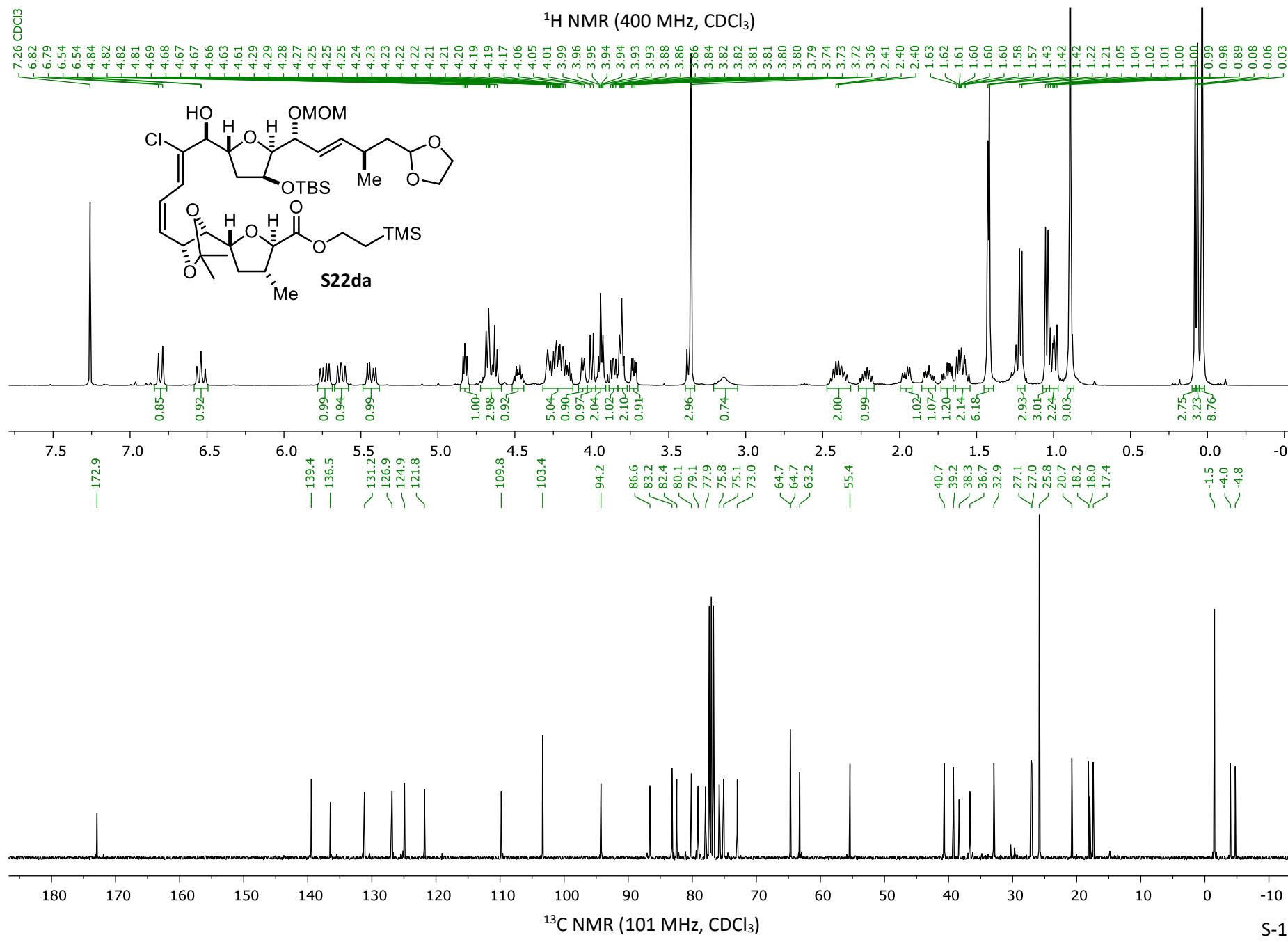


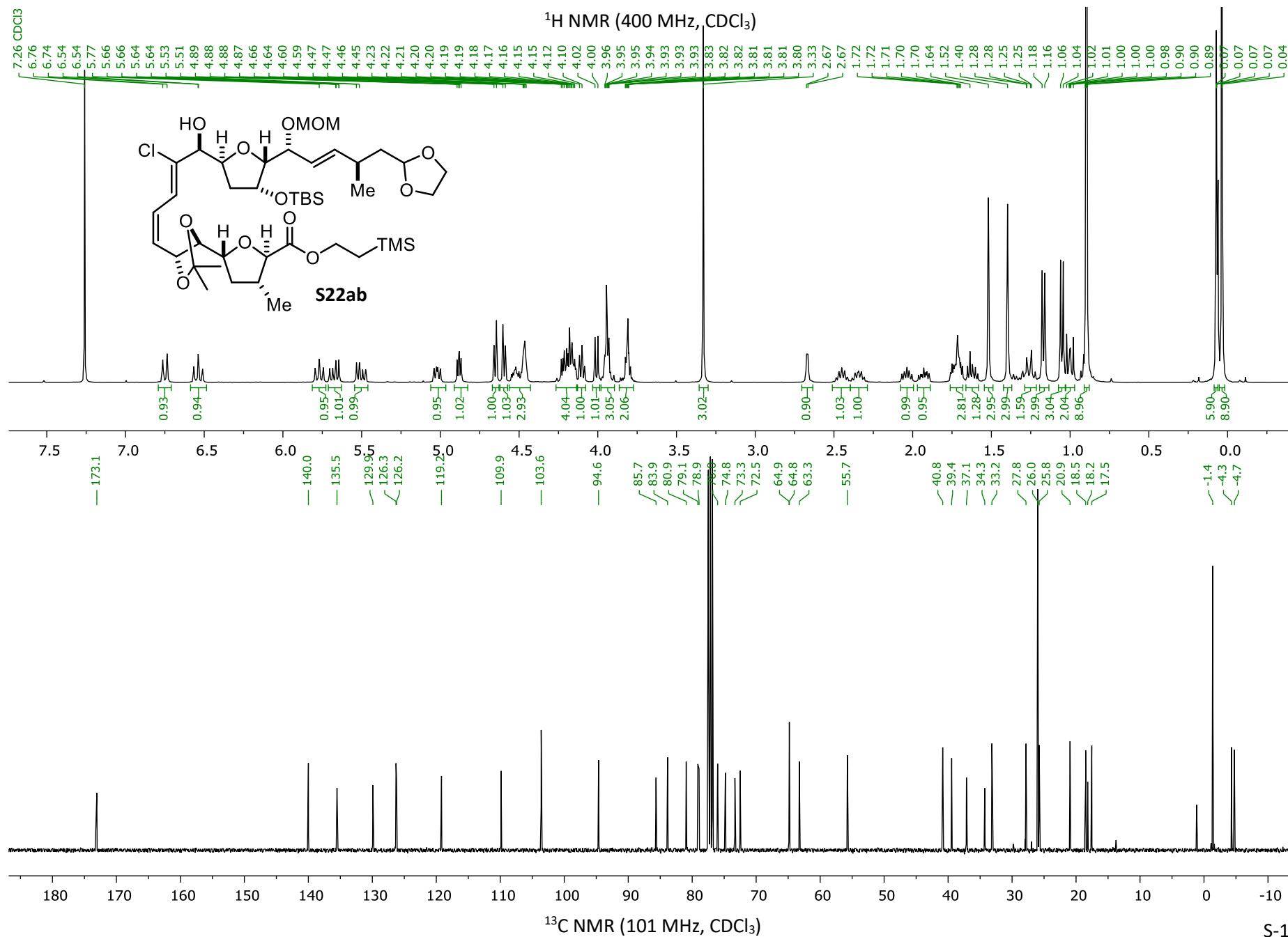


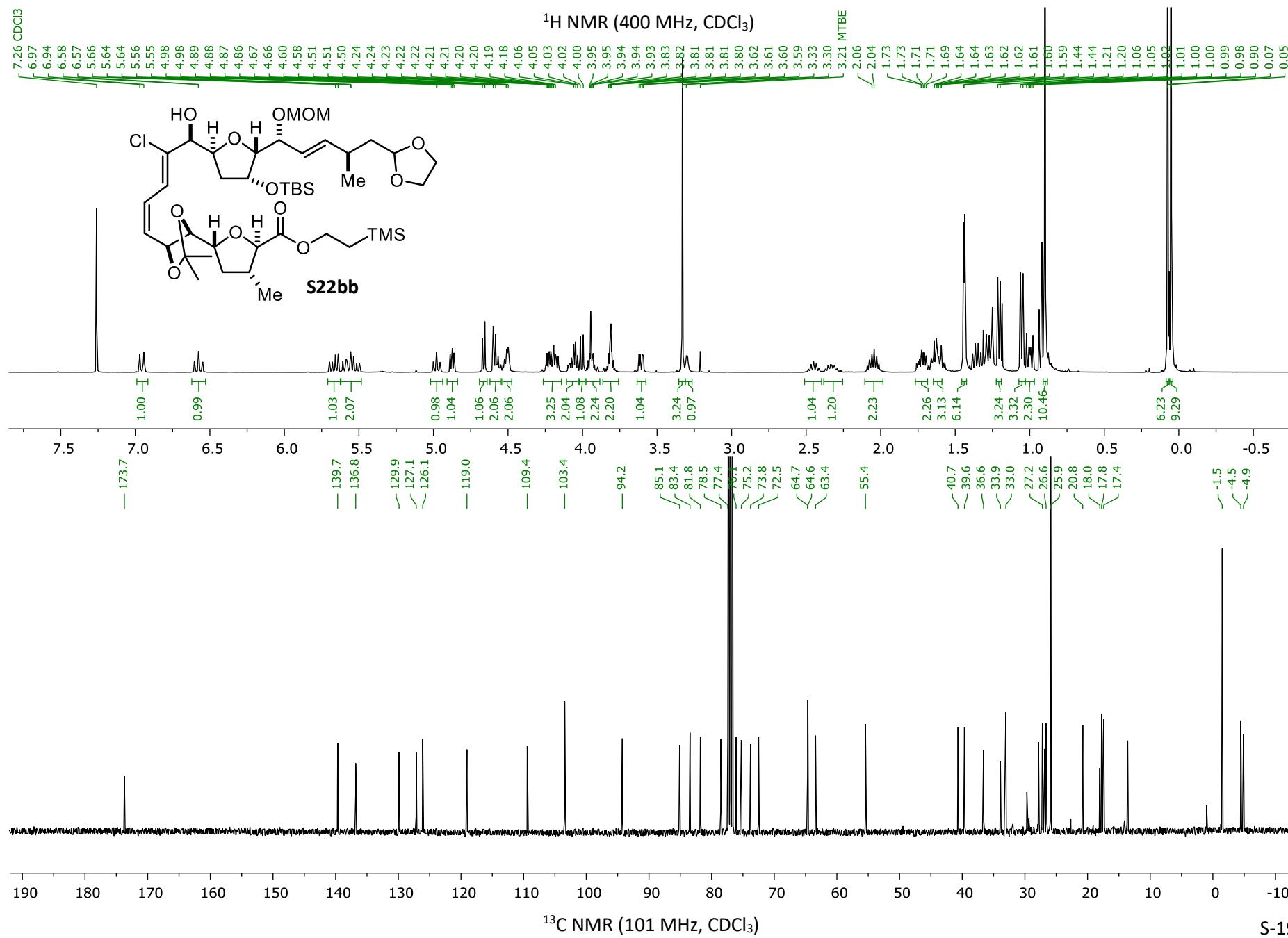


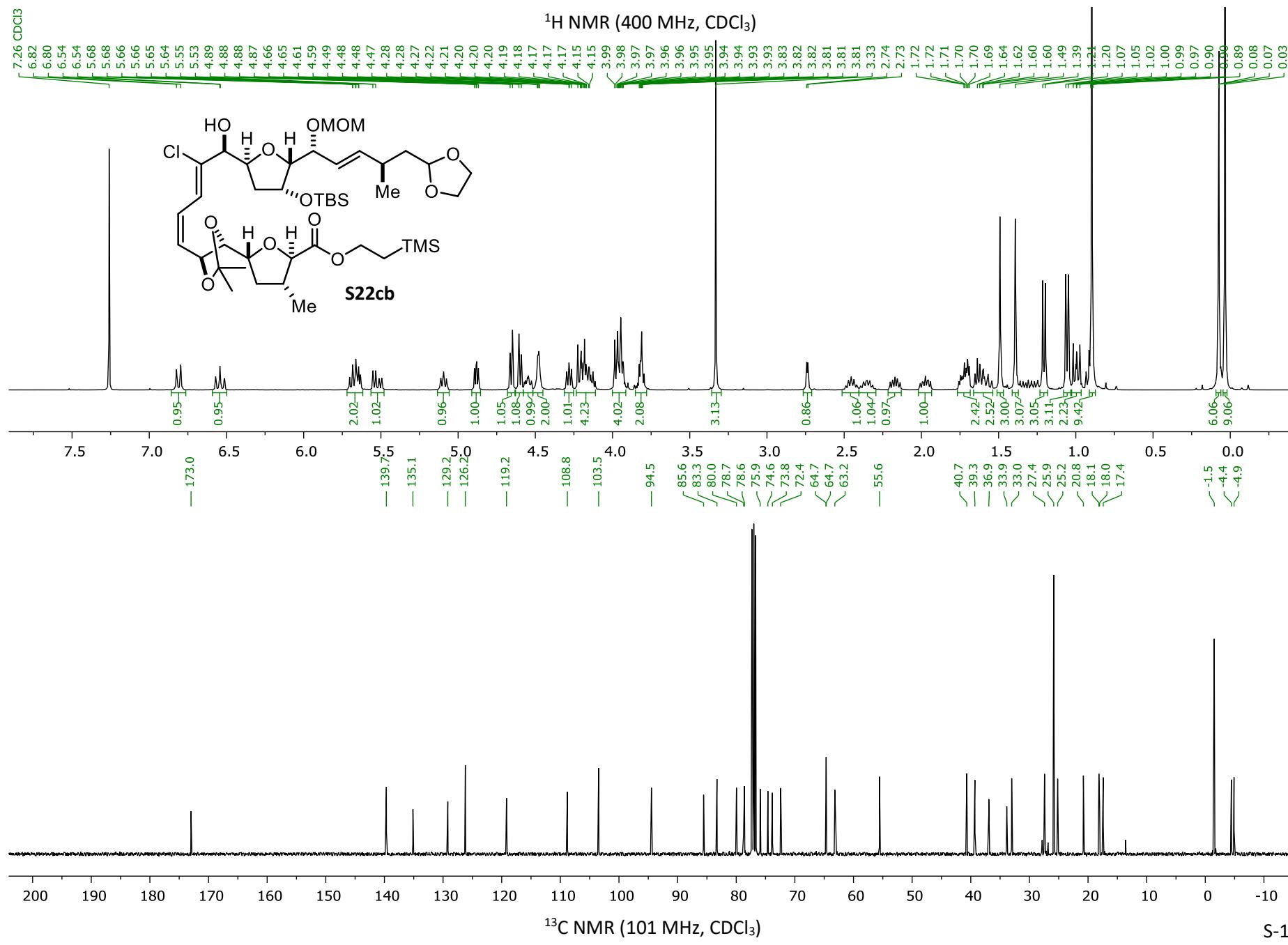


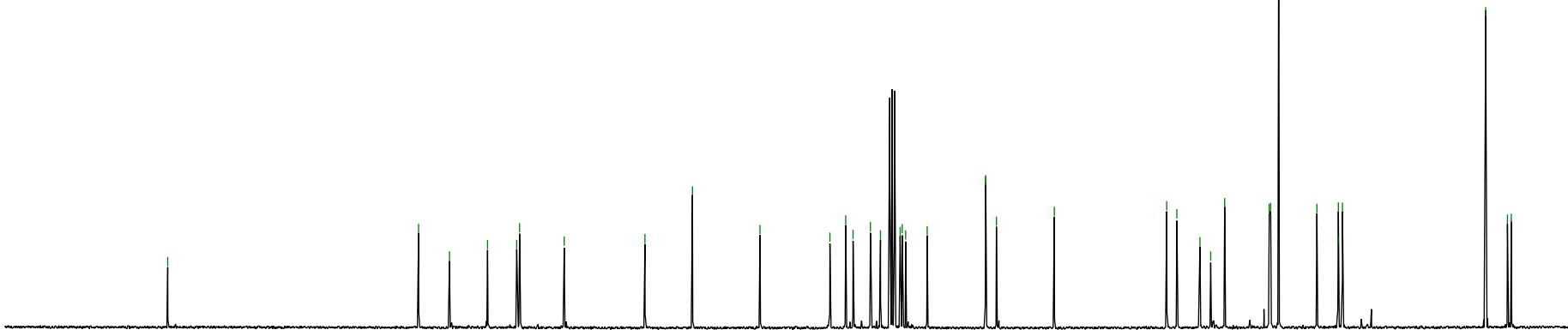
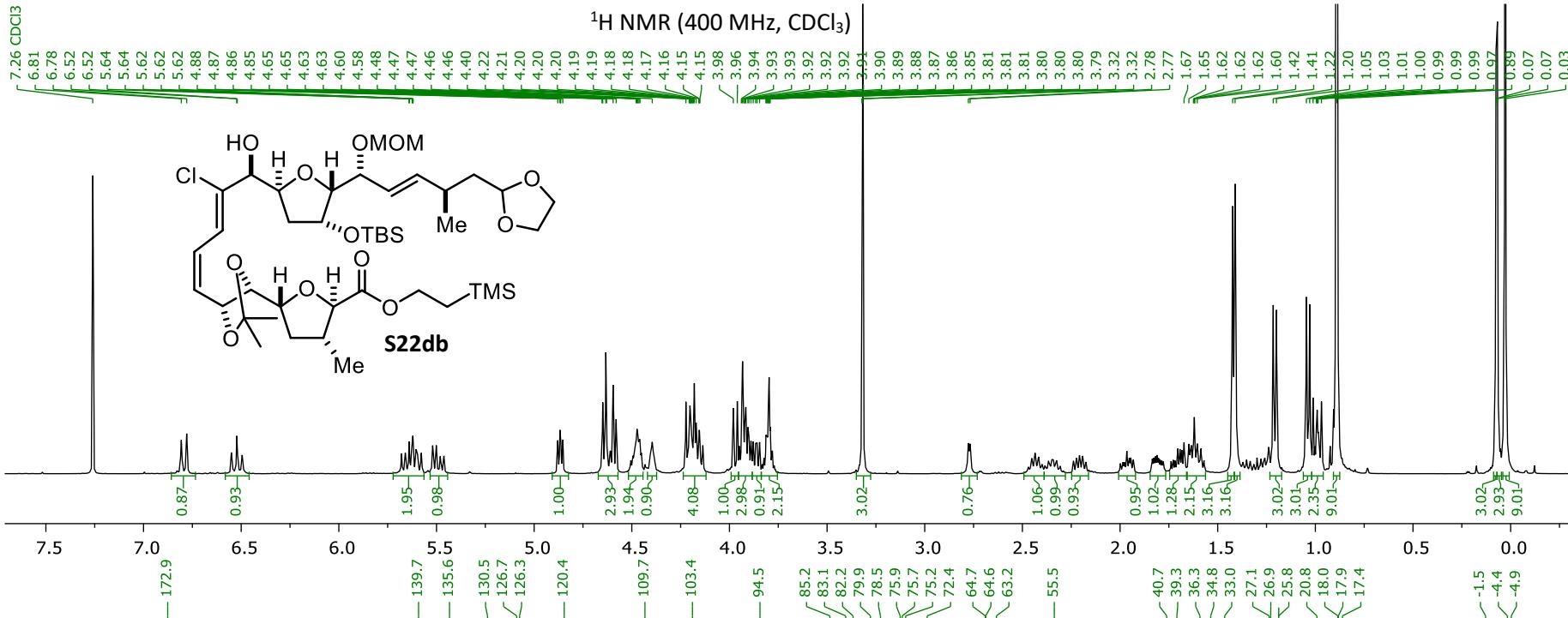






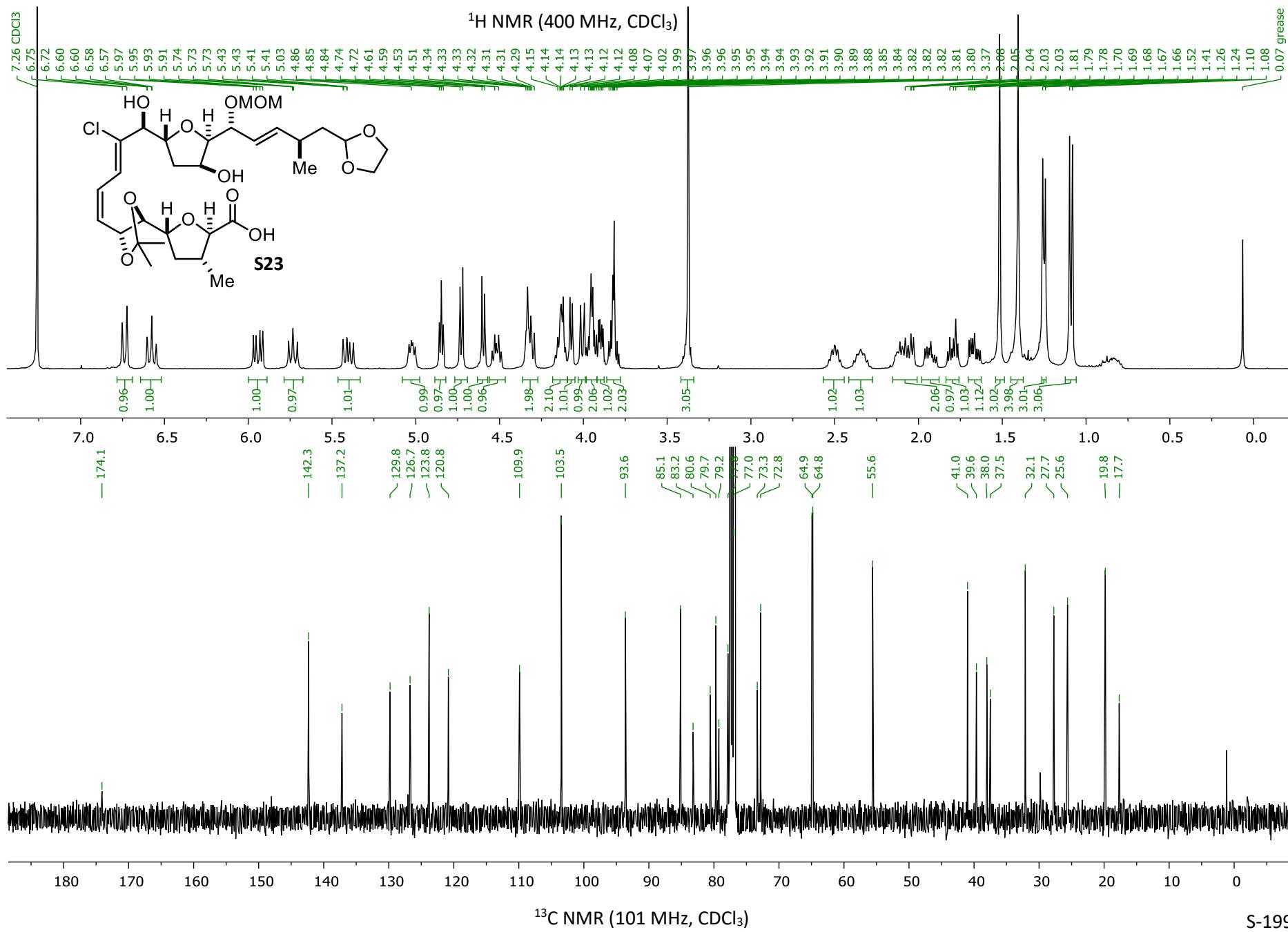


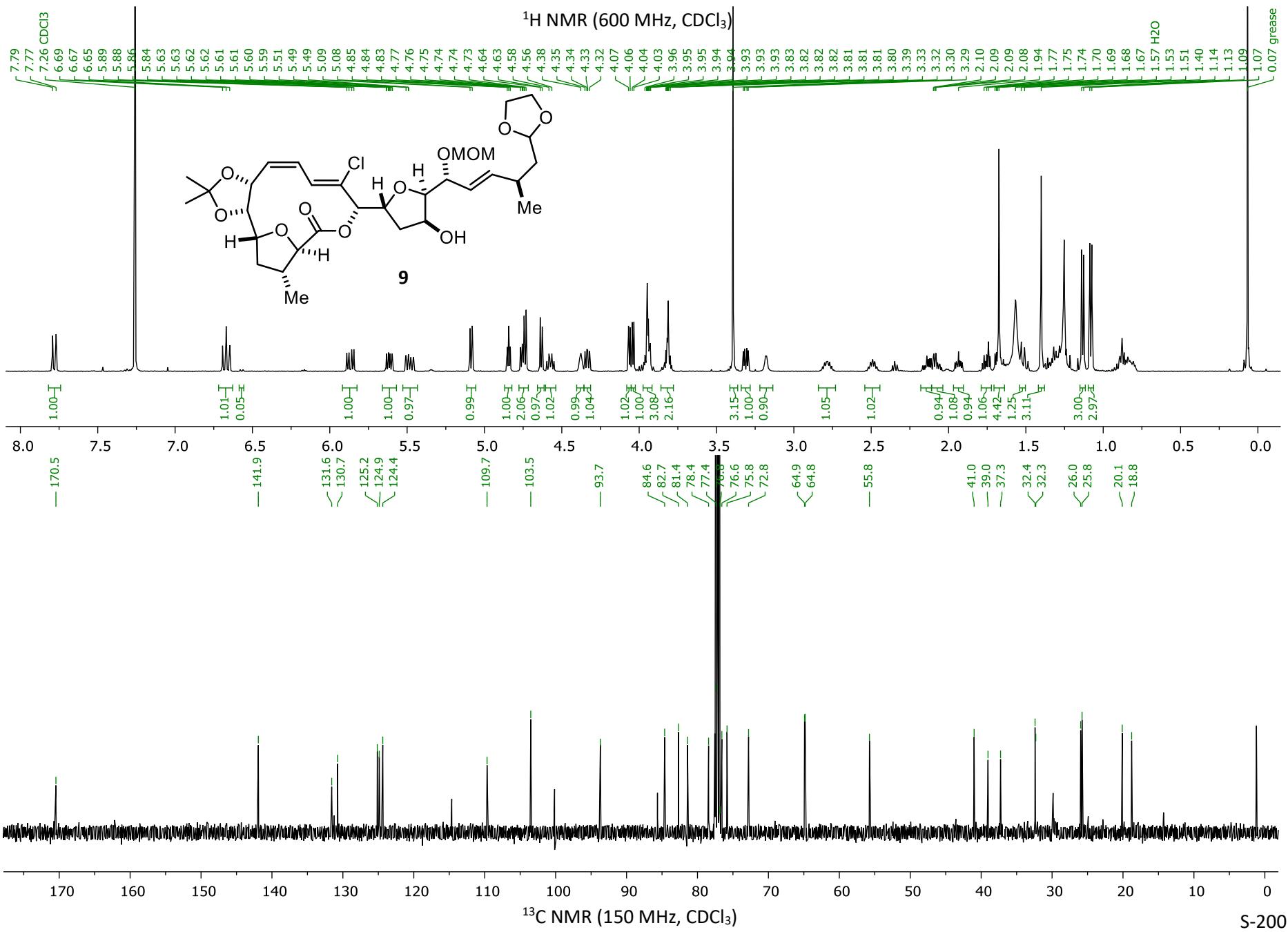


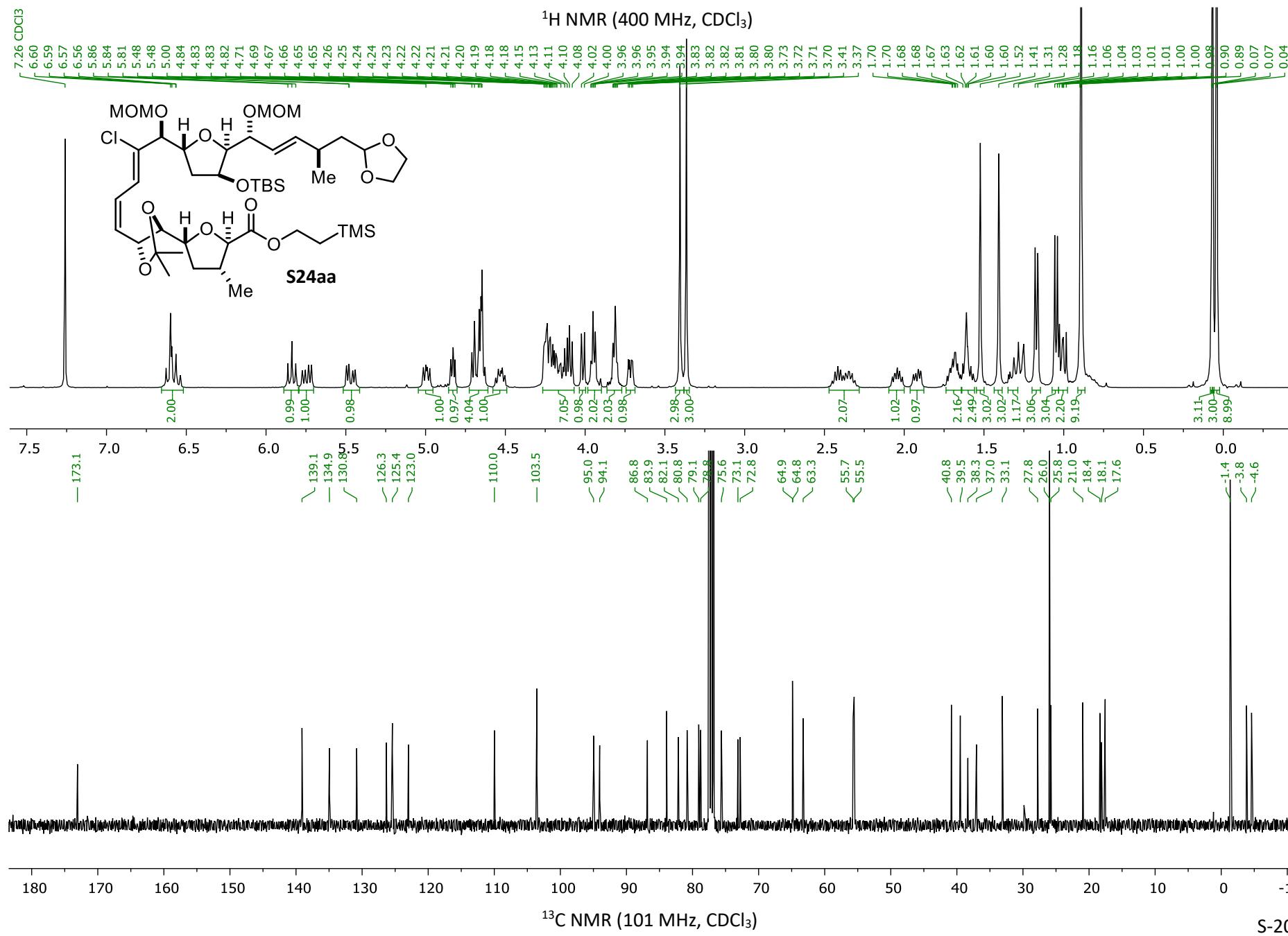


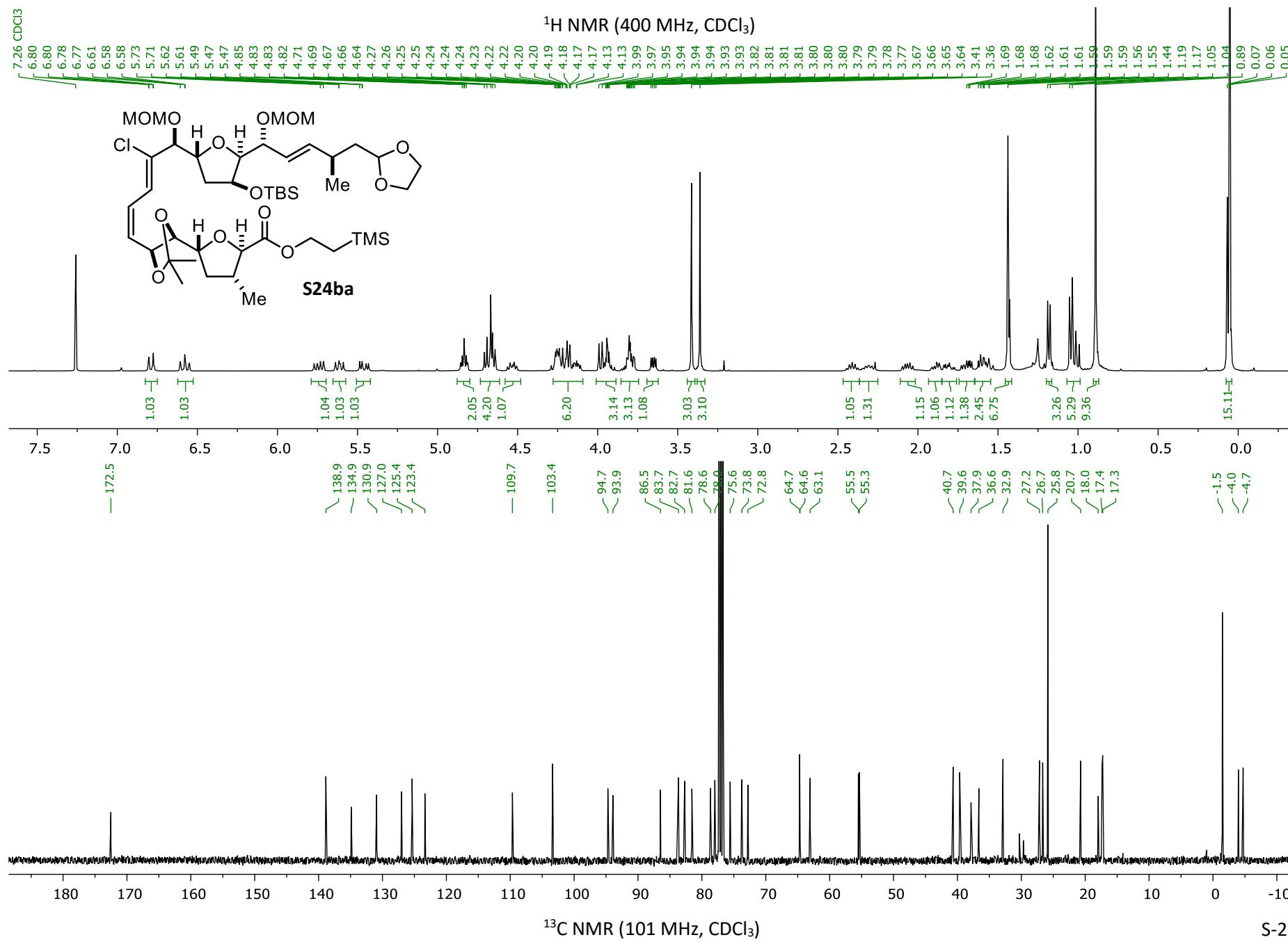
<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>)

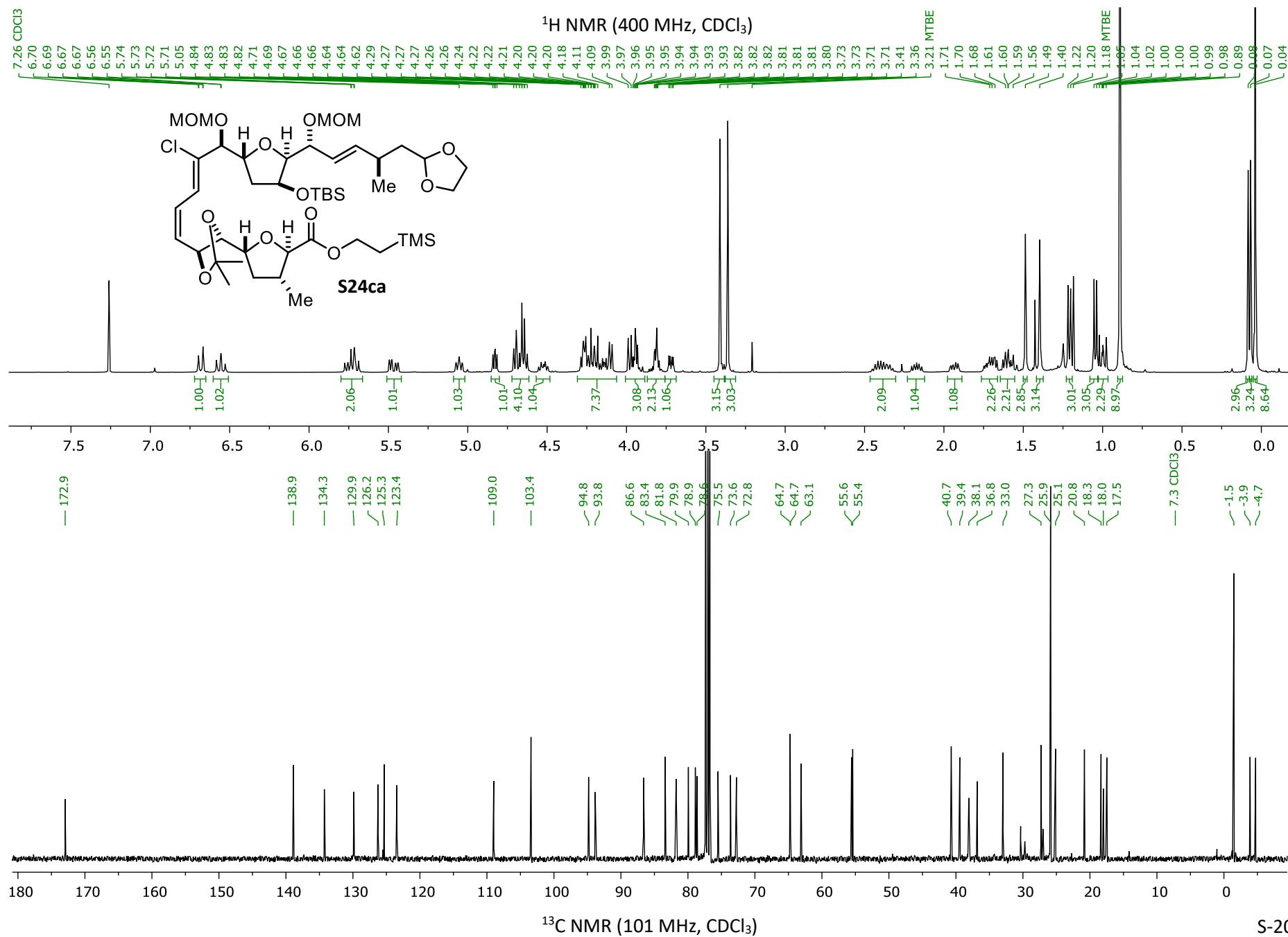
S-198

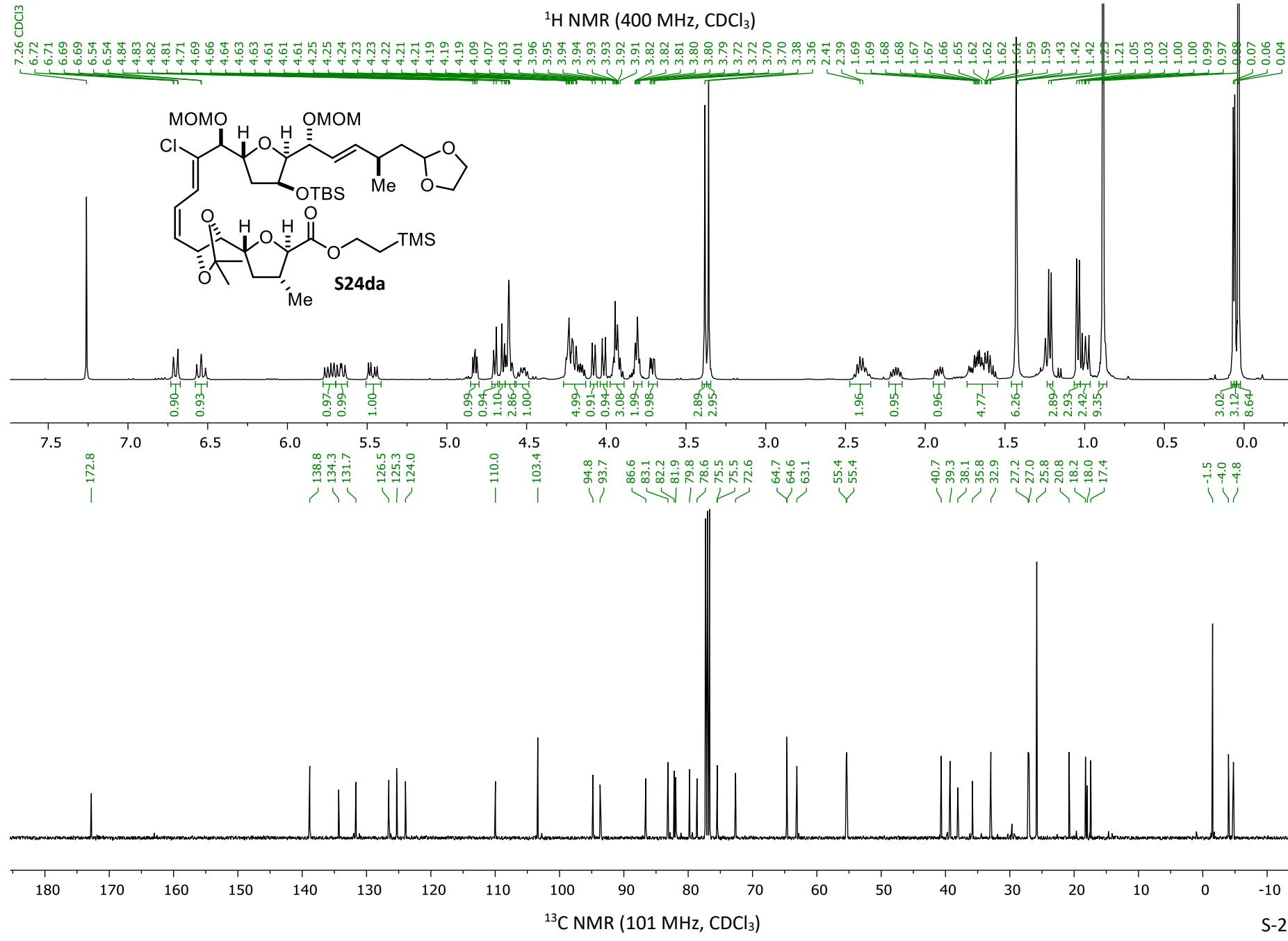


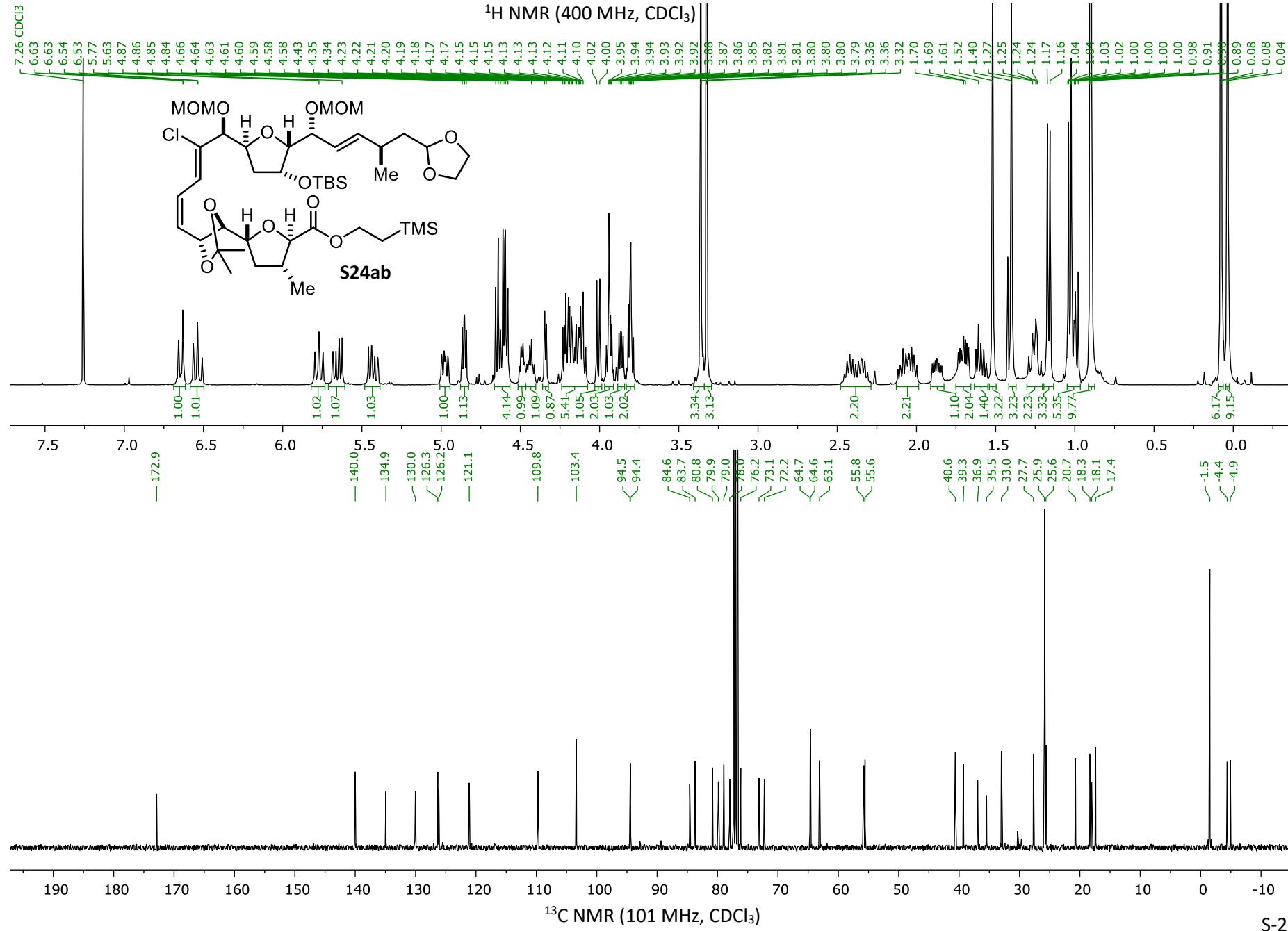


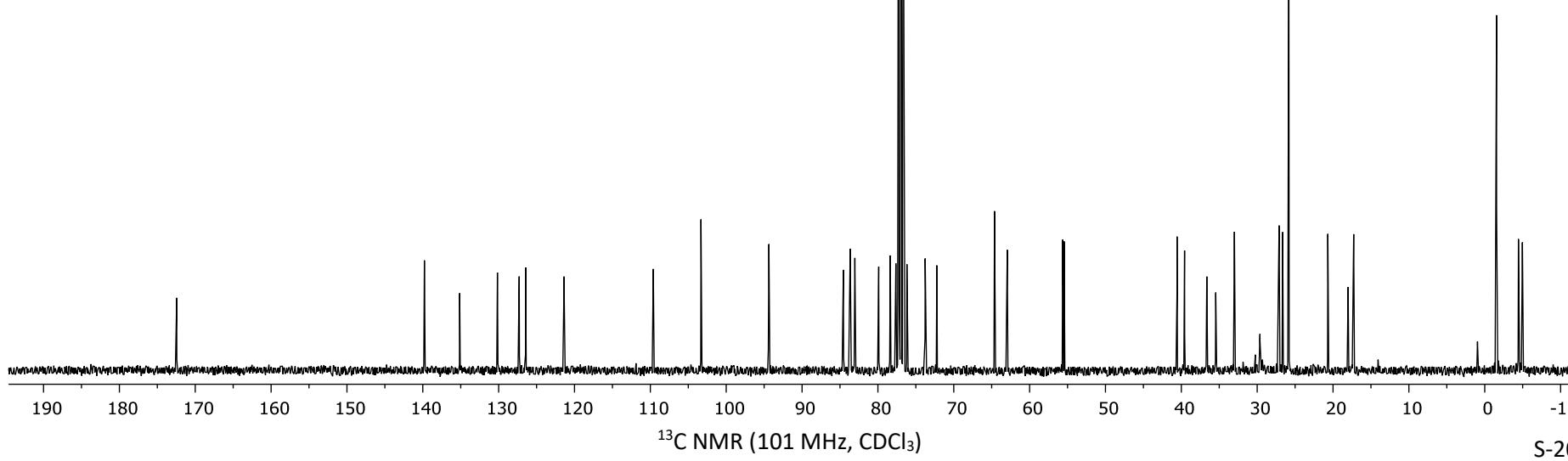
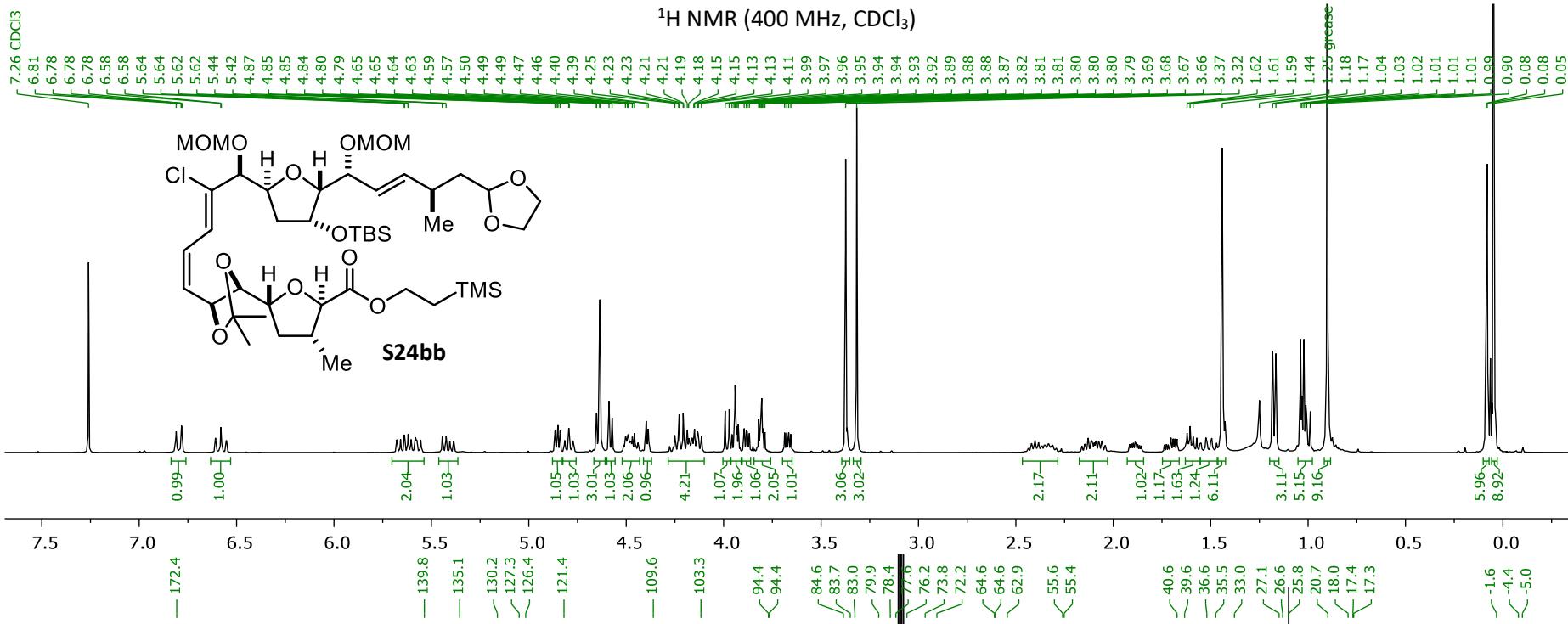


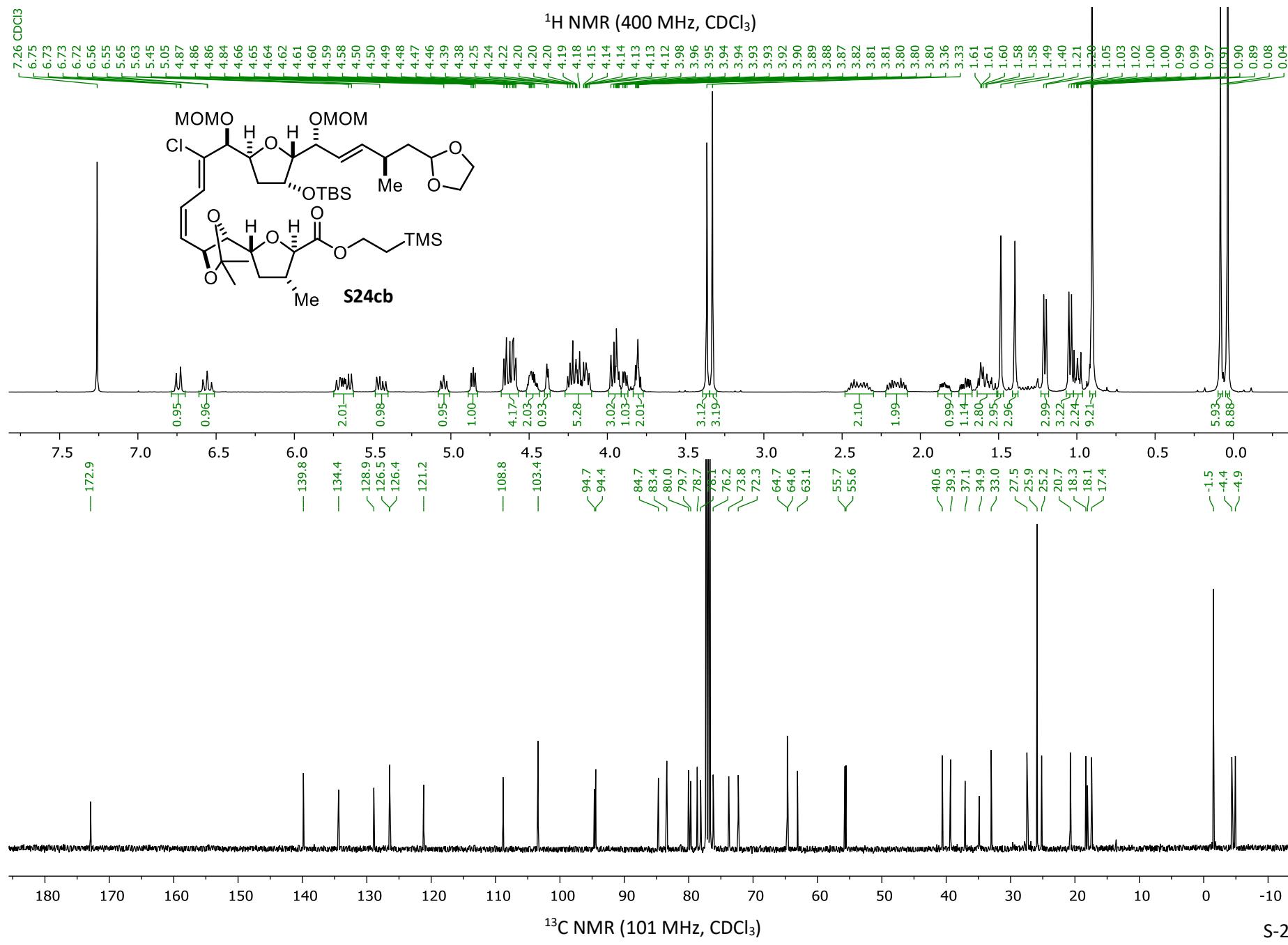


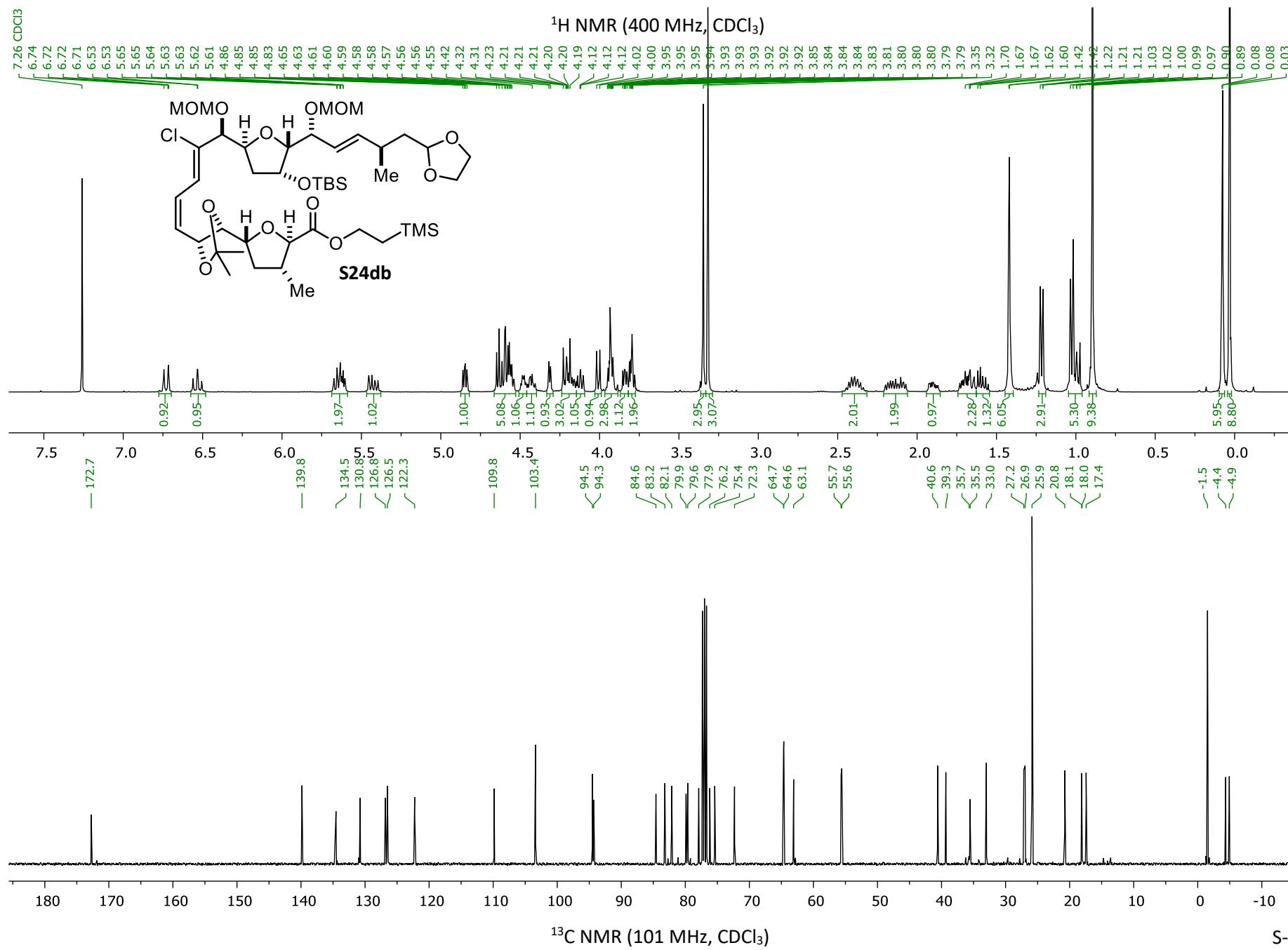


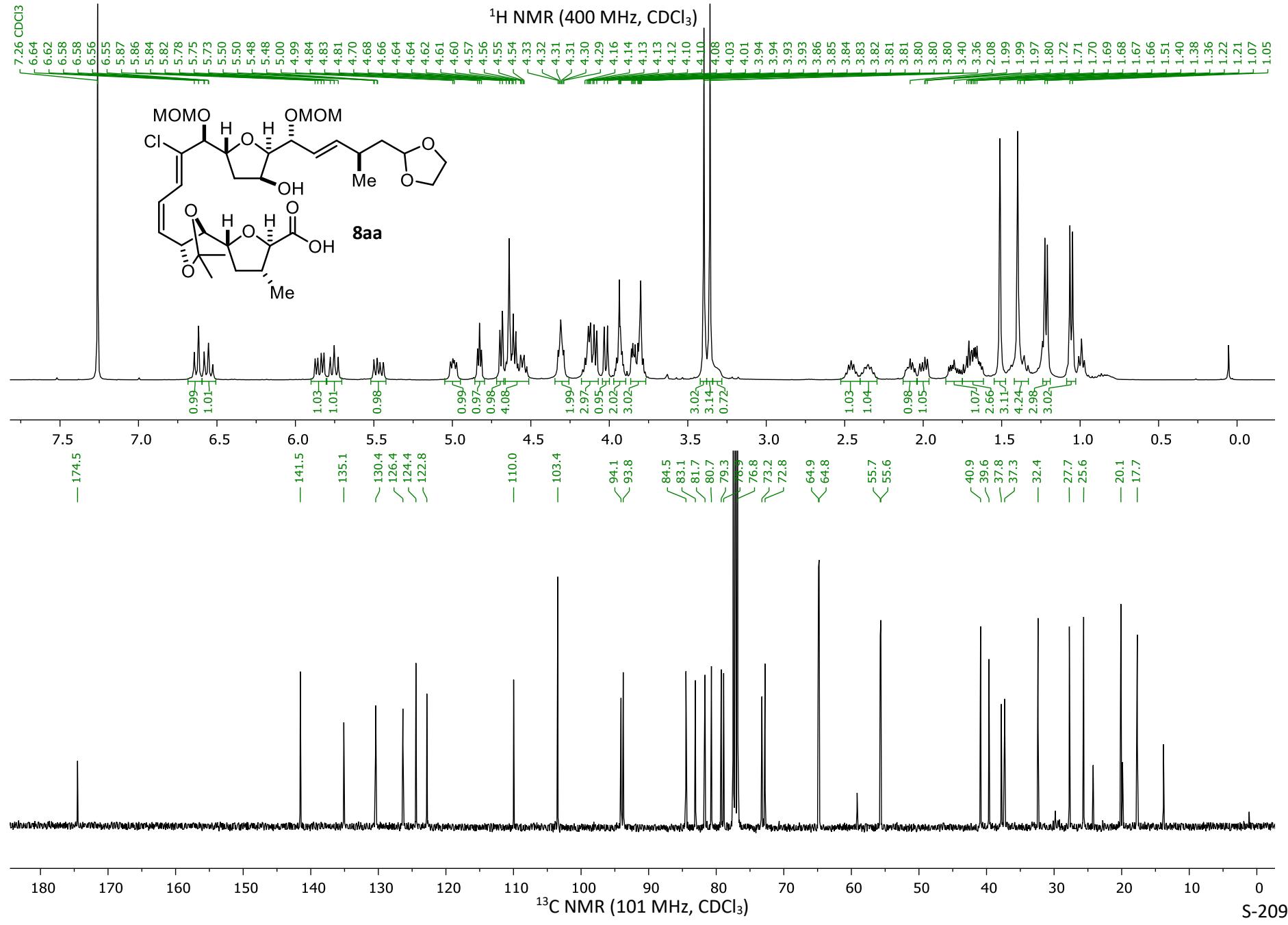


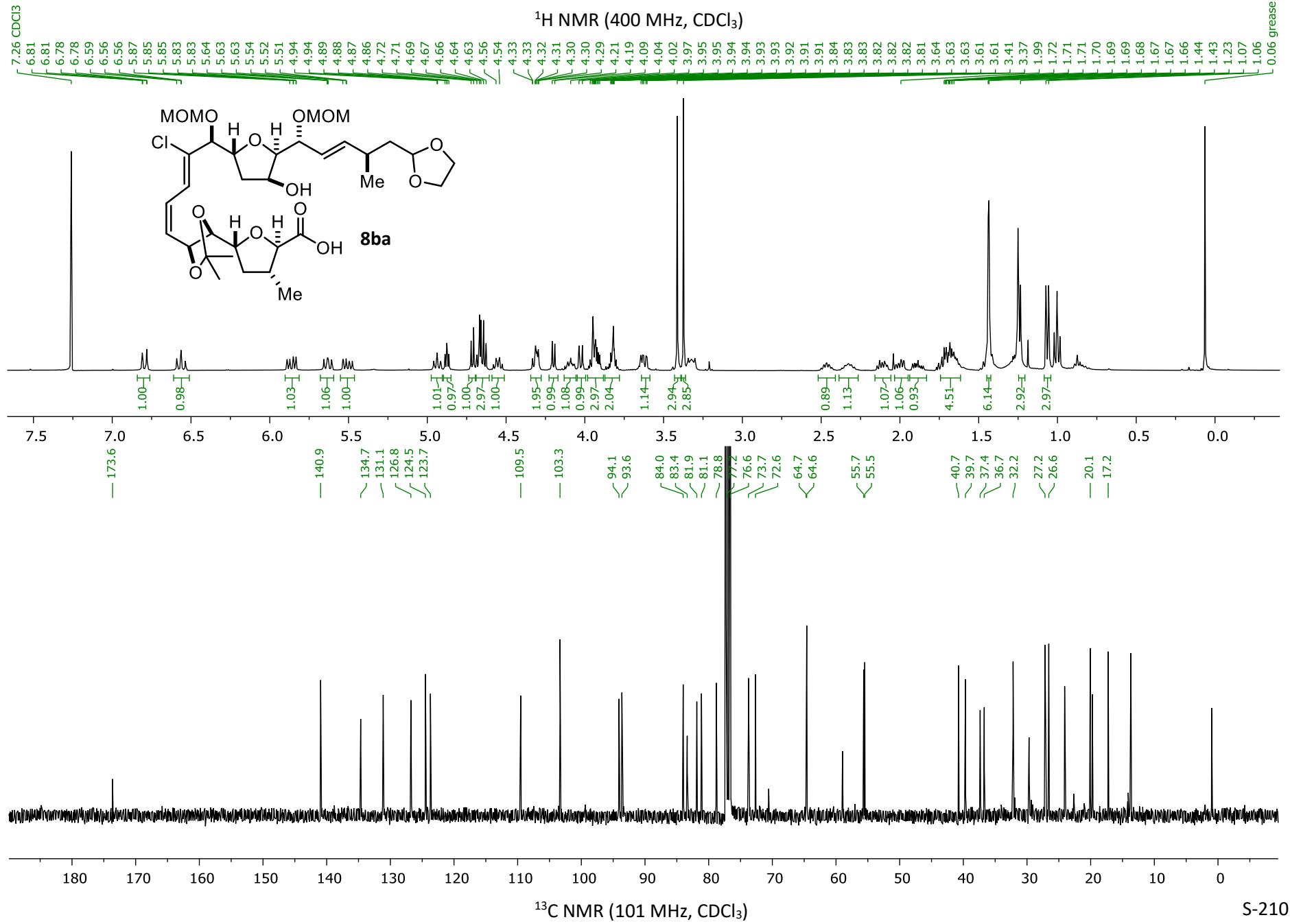


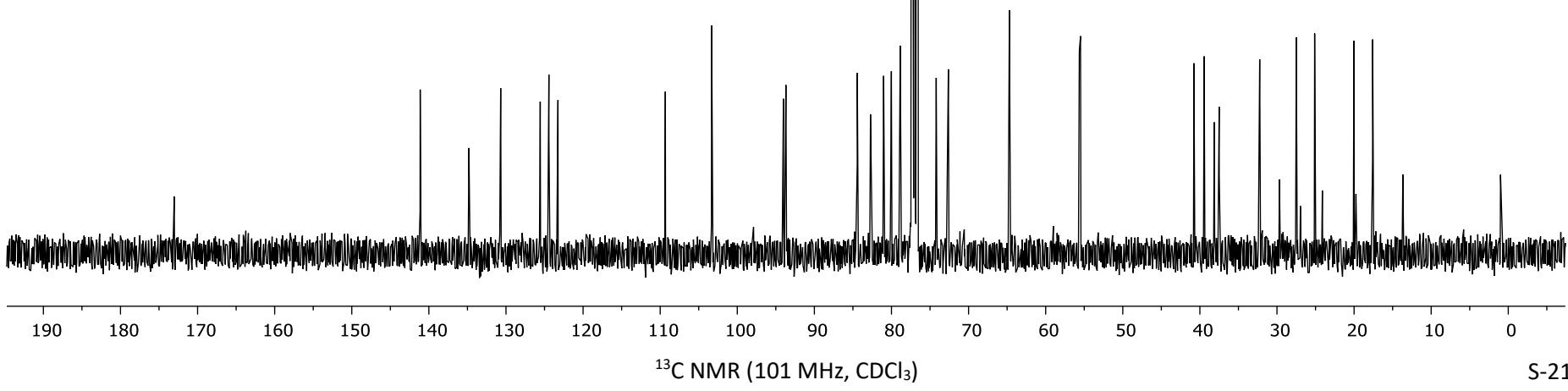
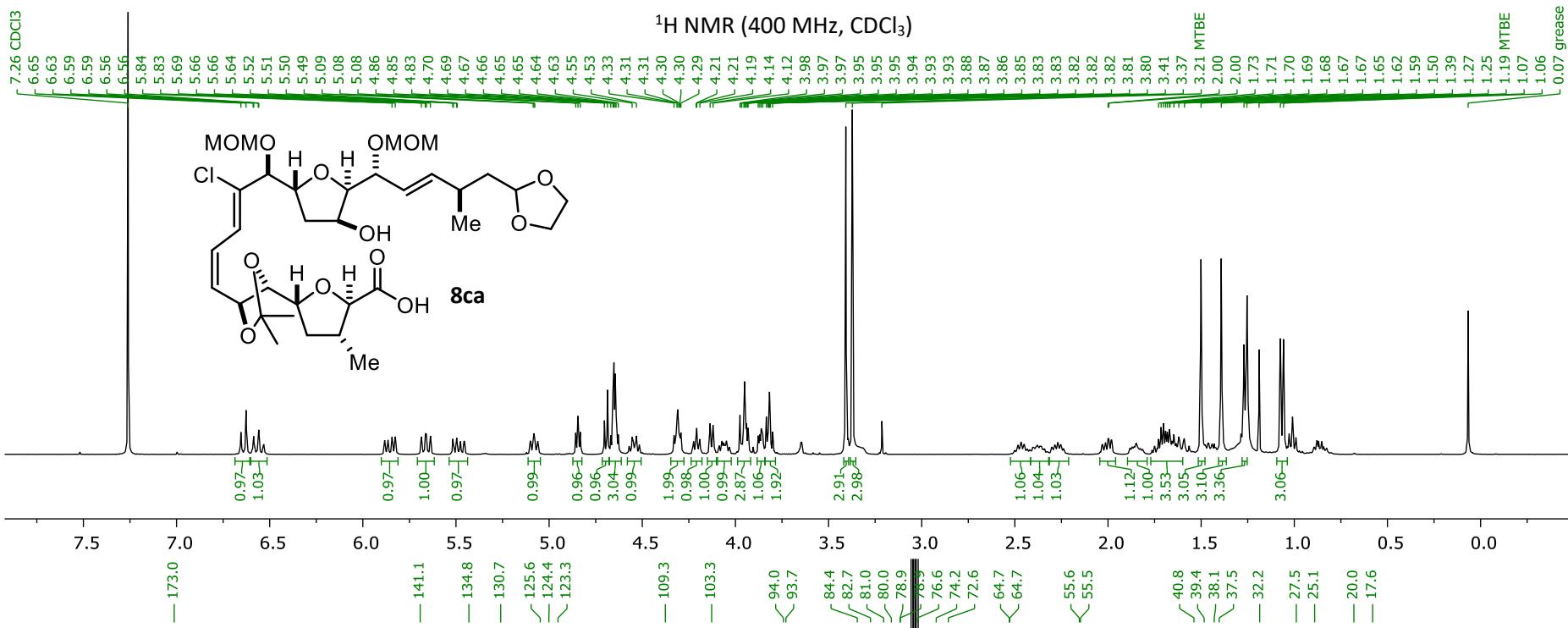


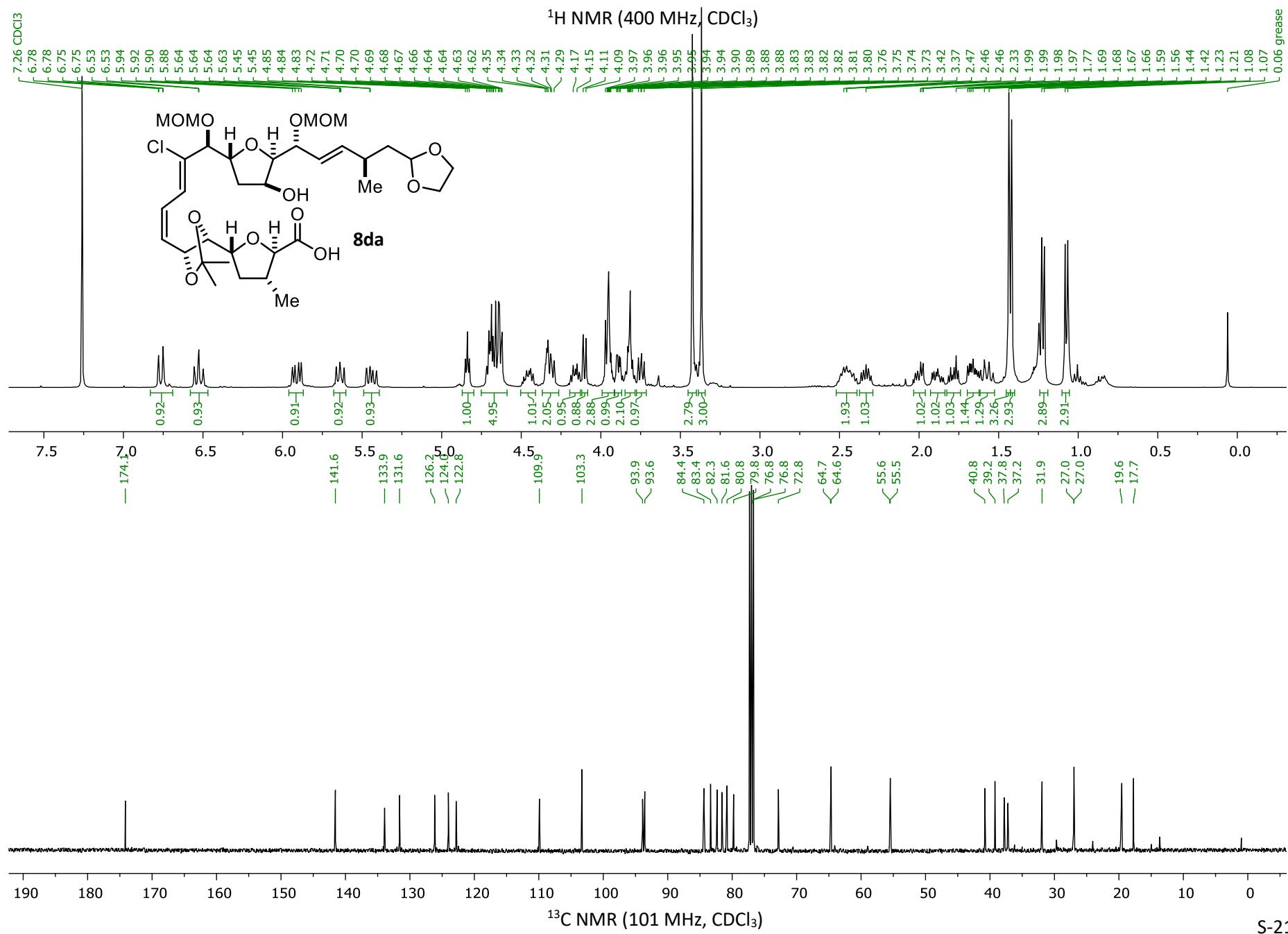


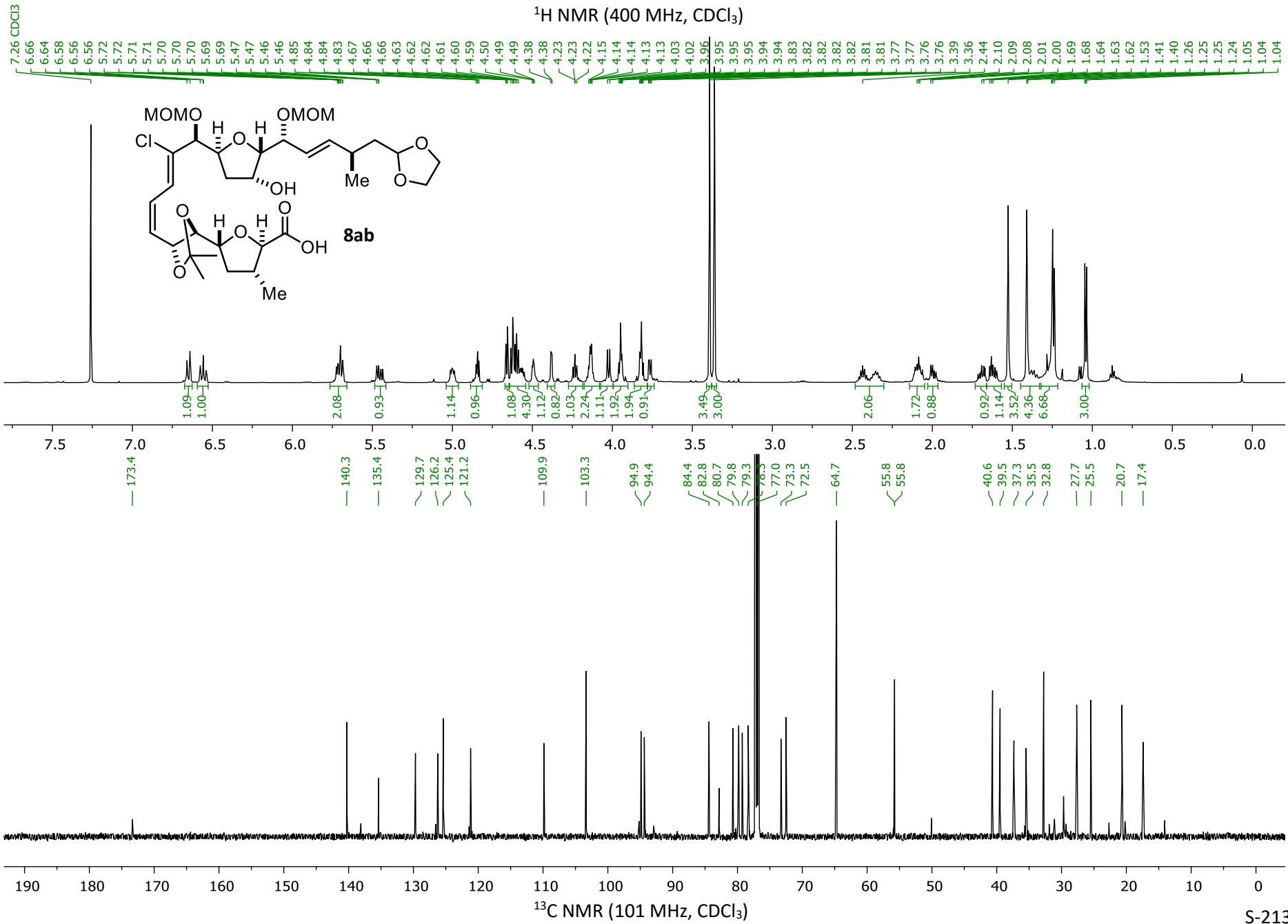


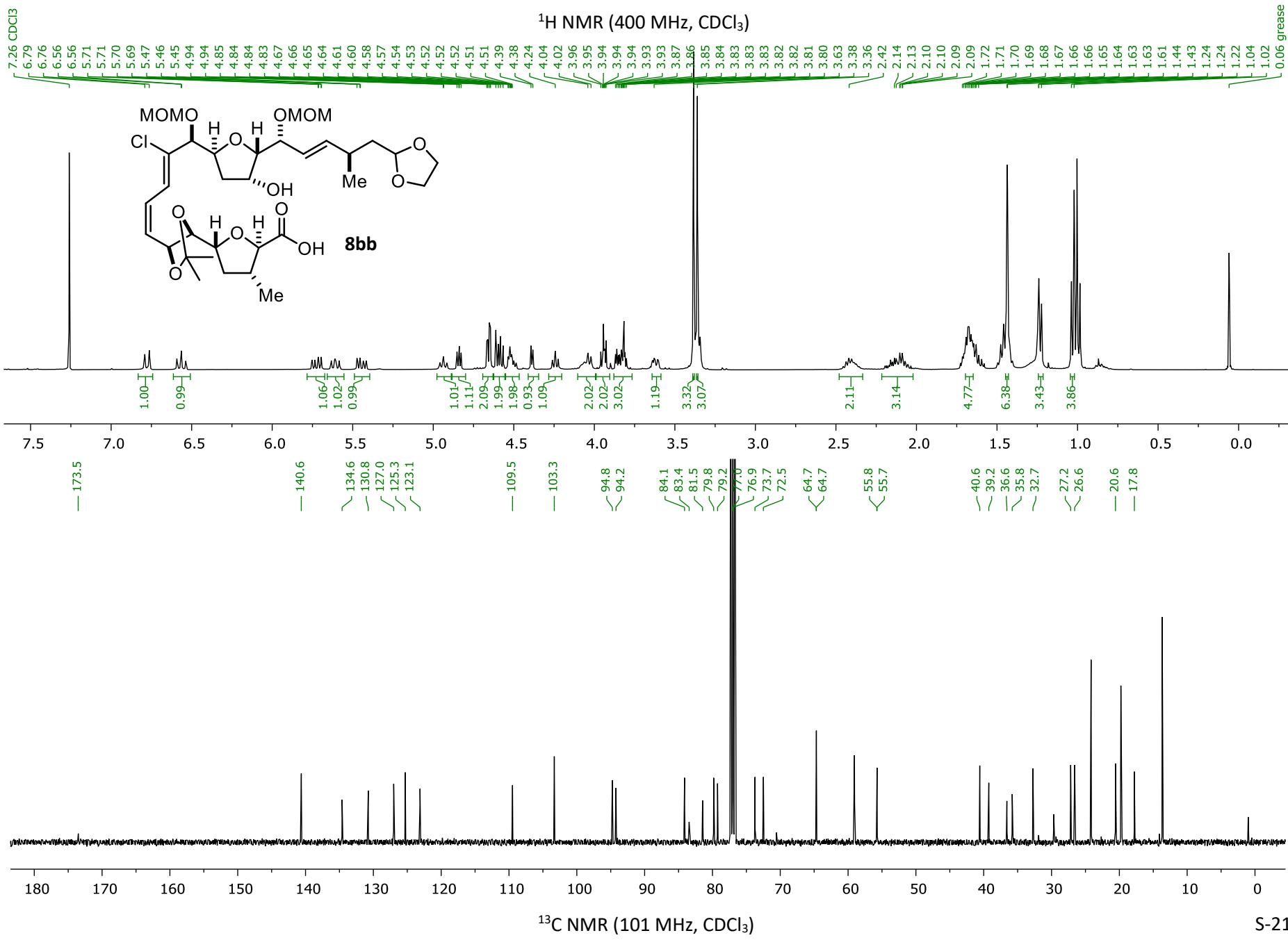


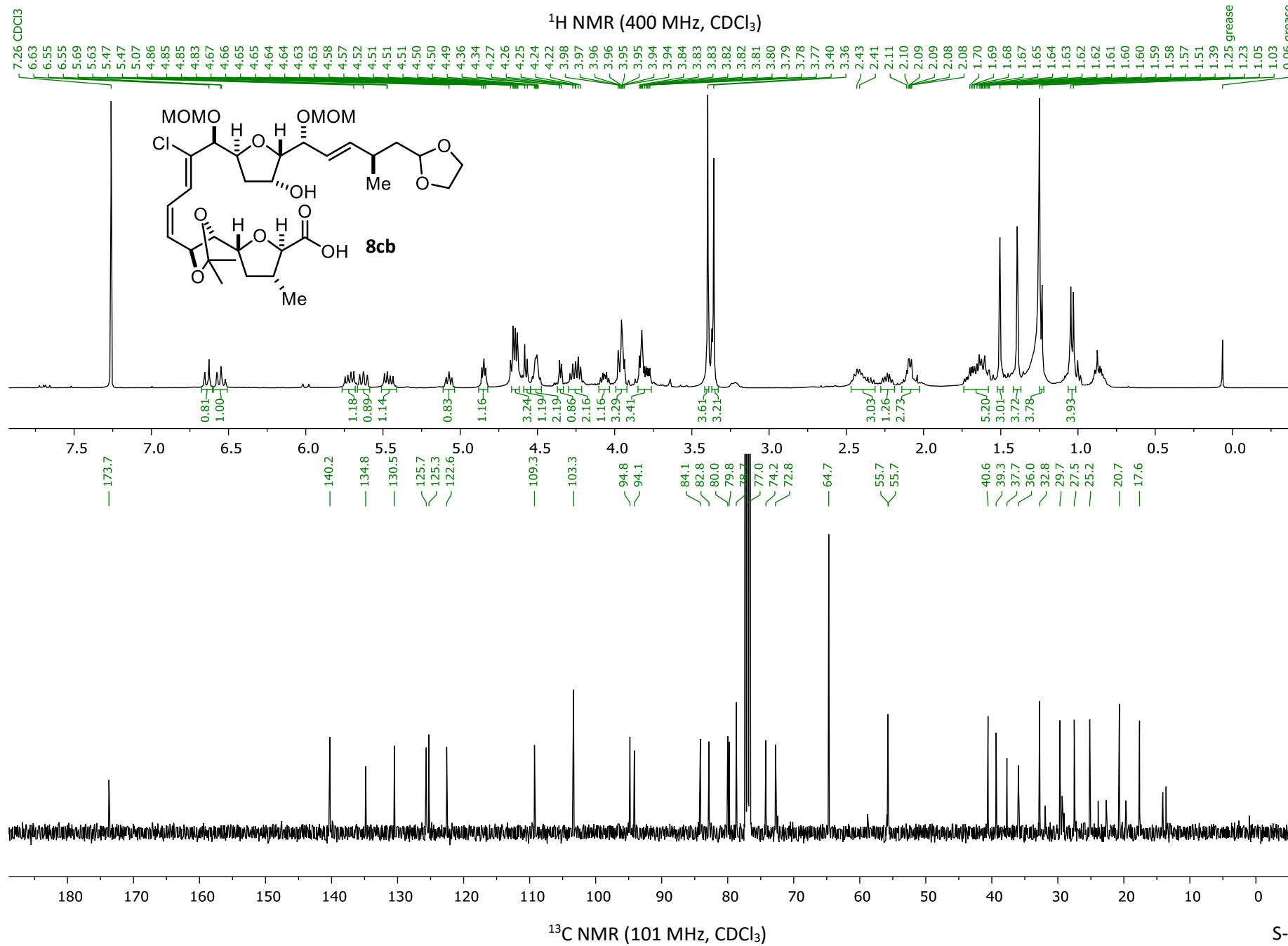


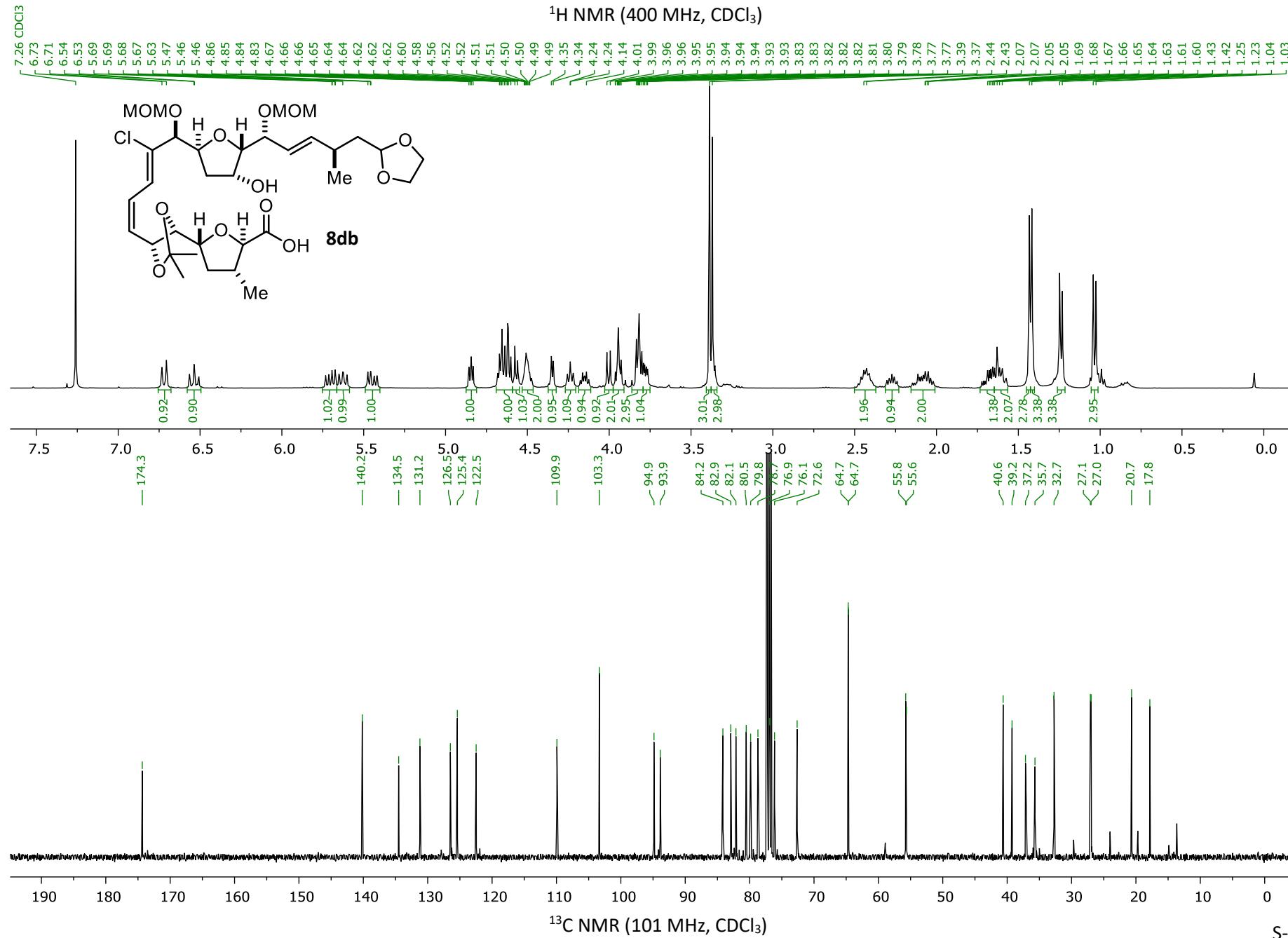


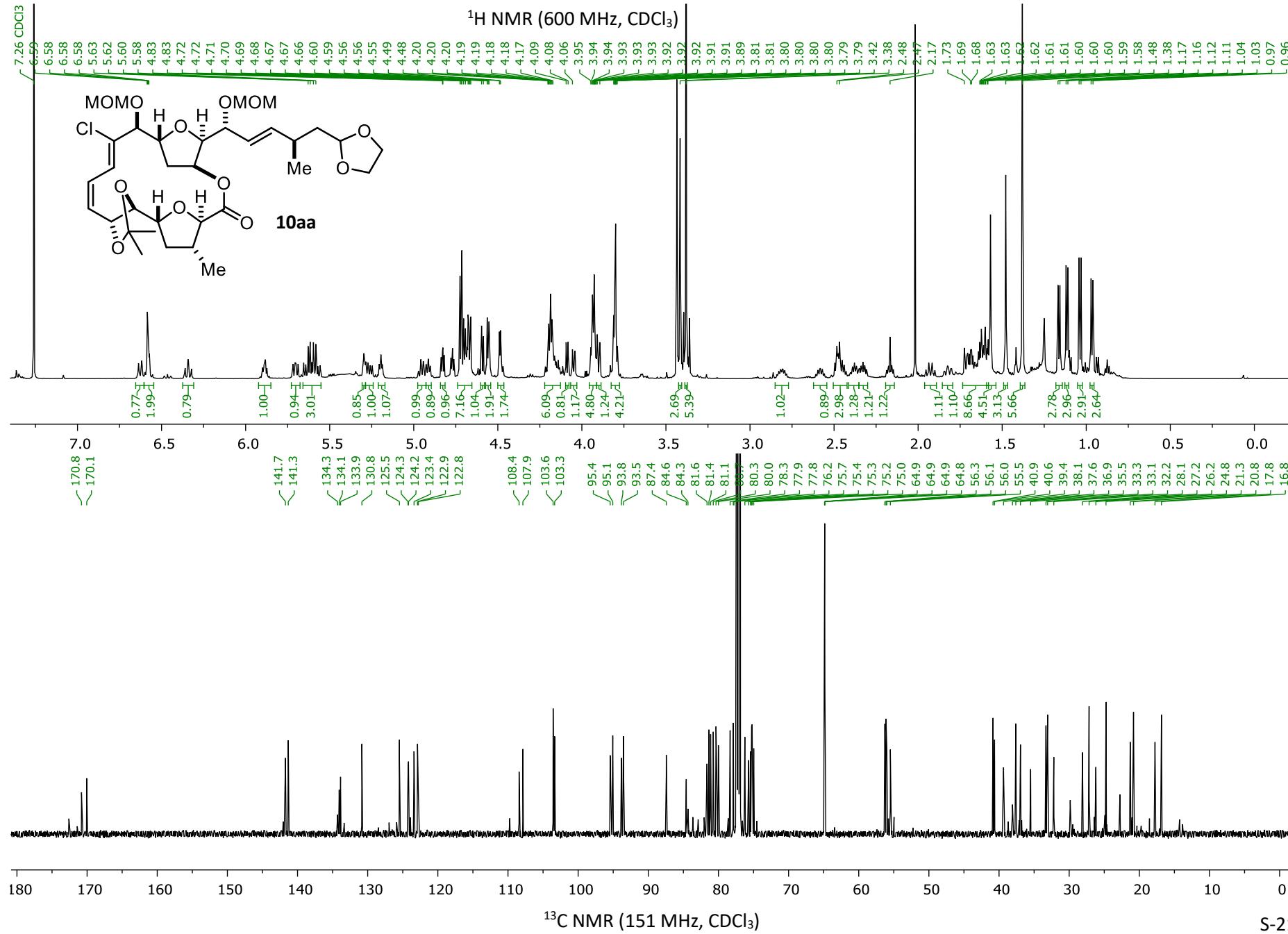




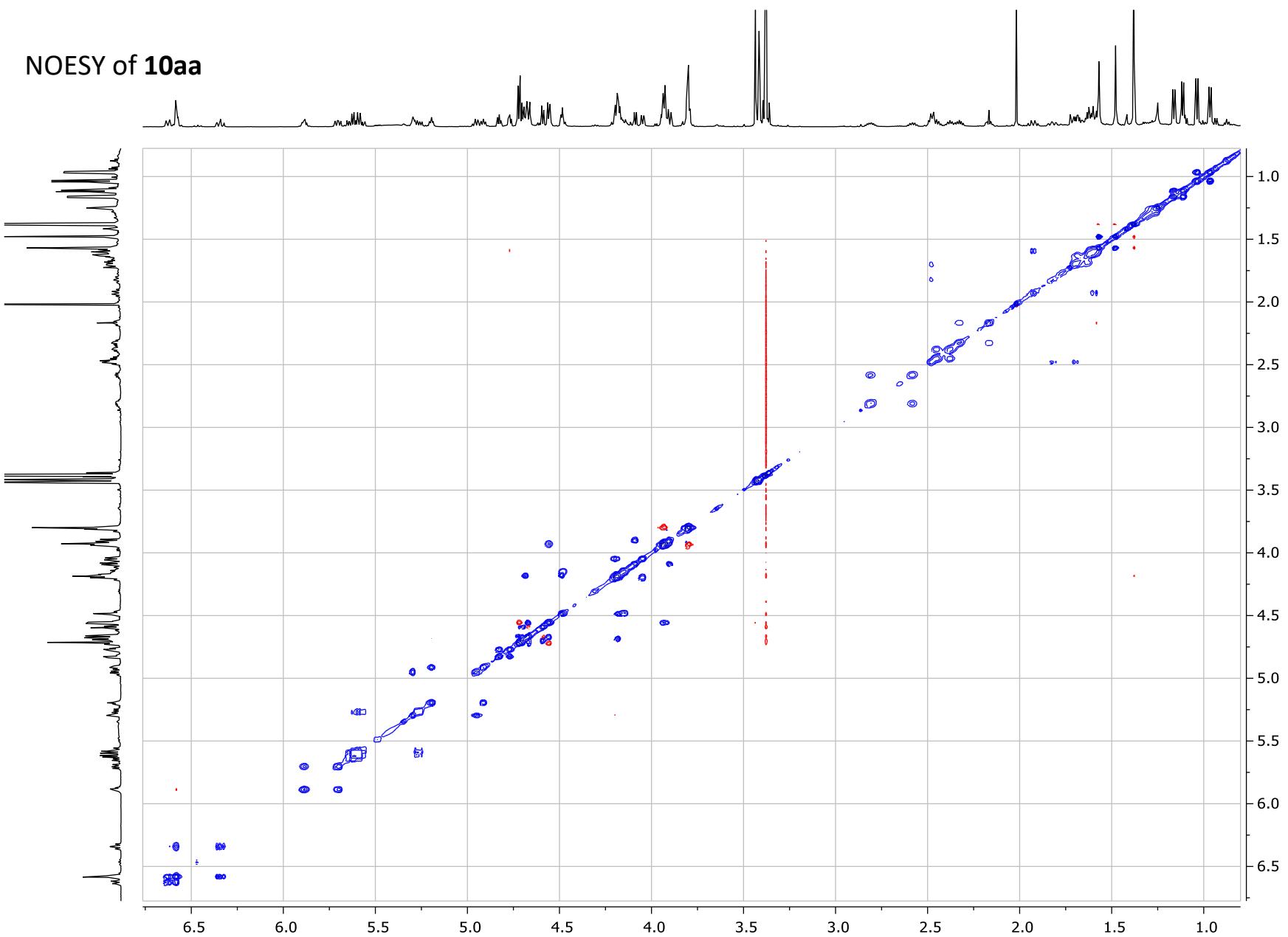


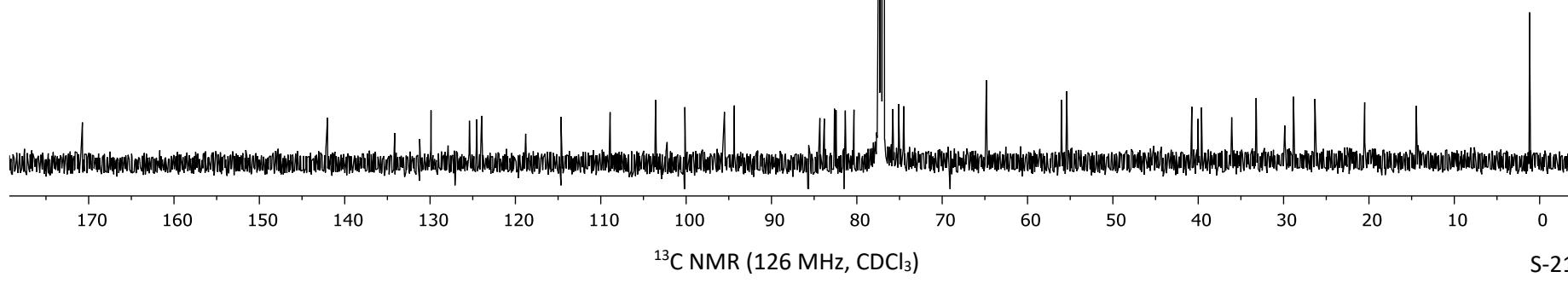
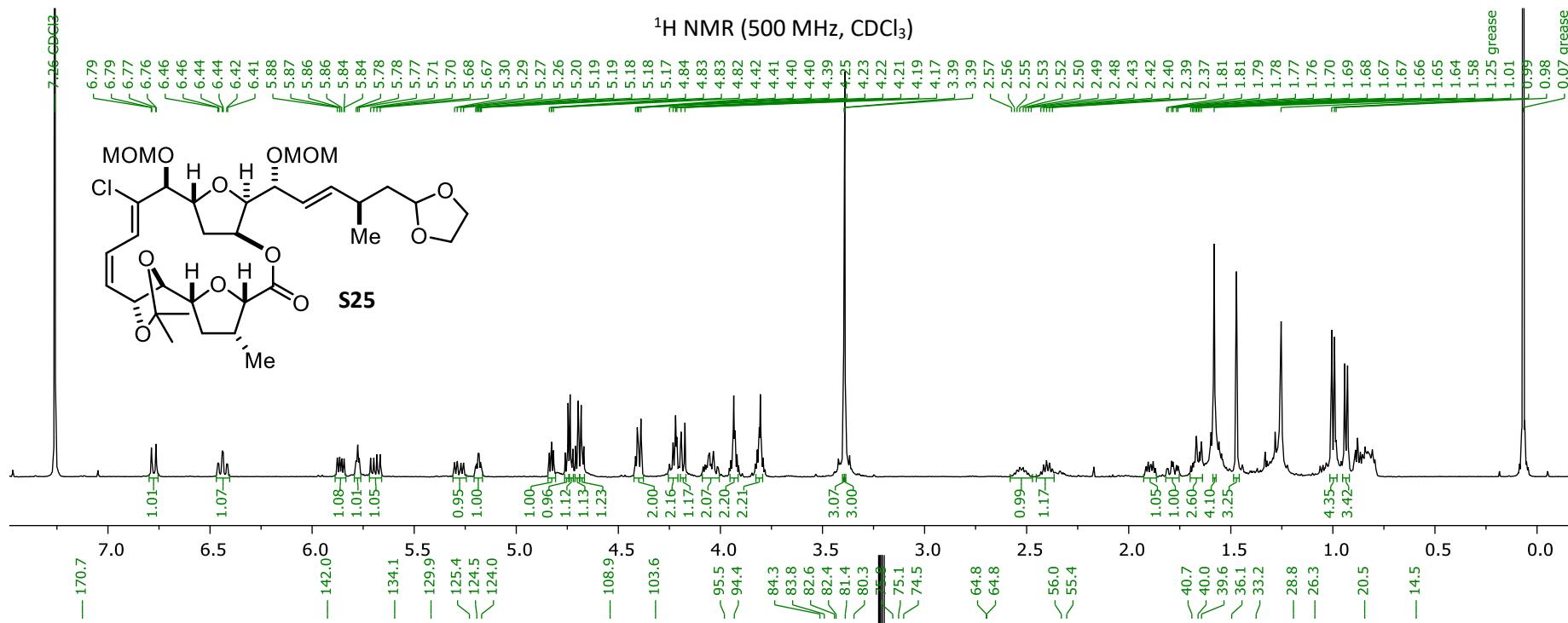


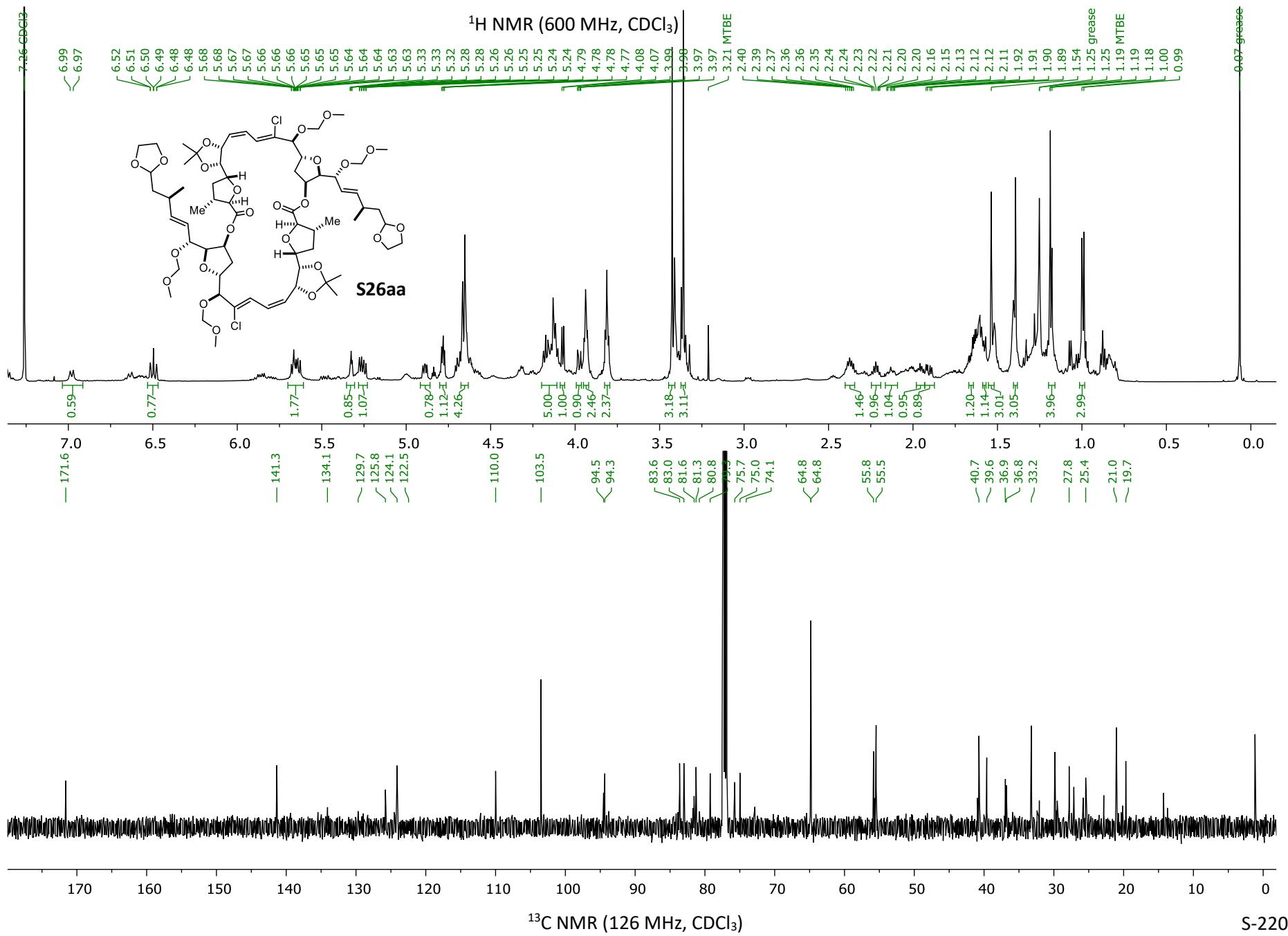


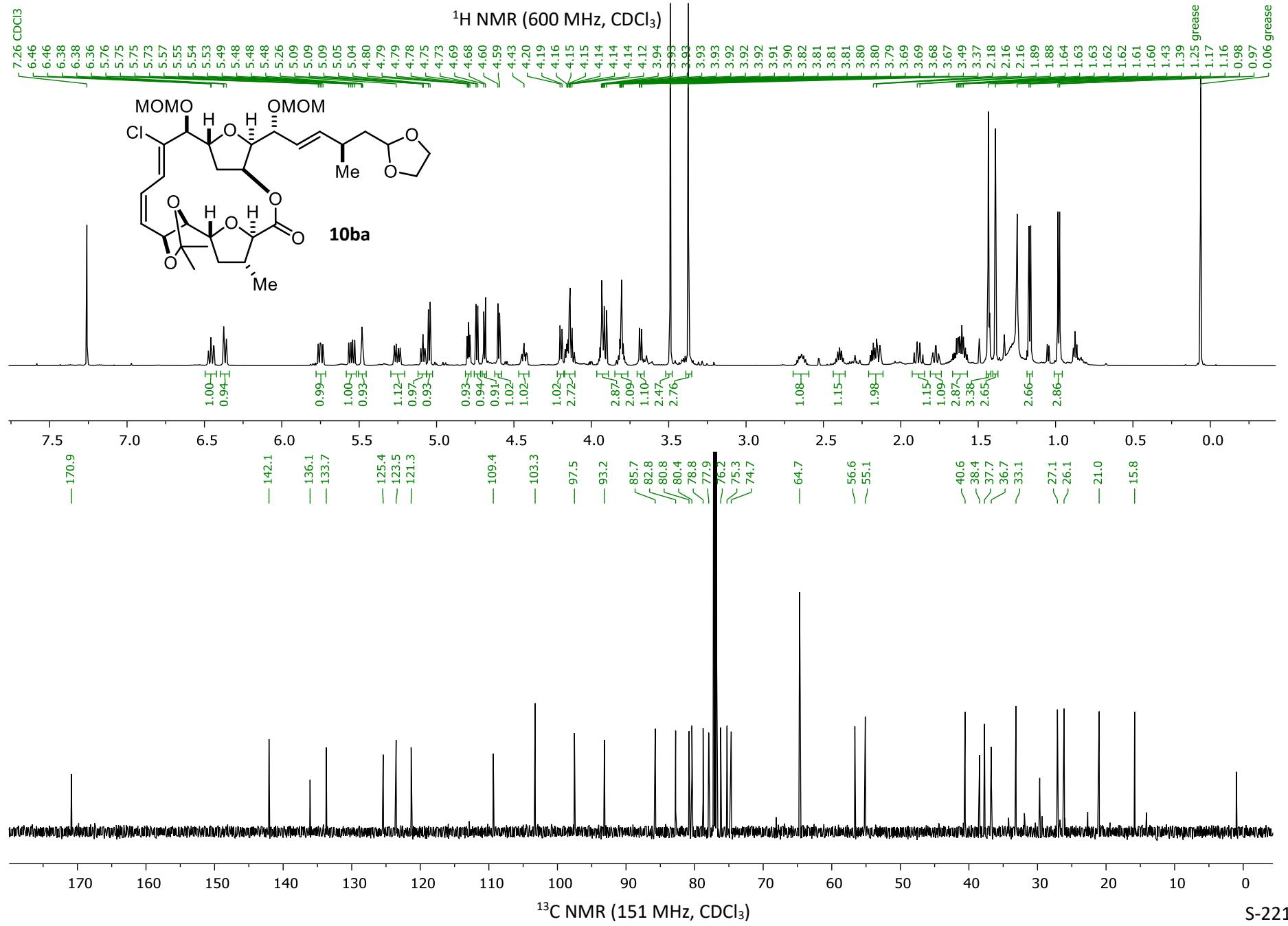


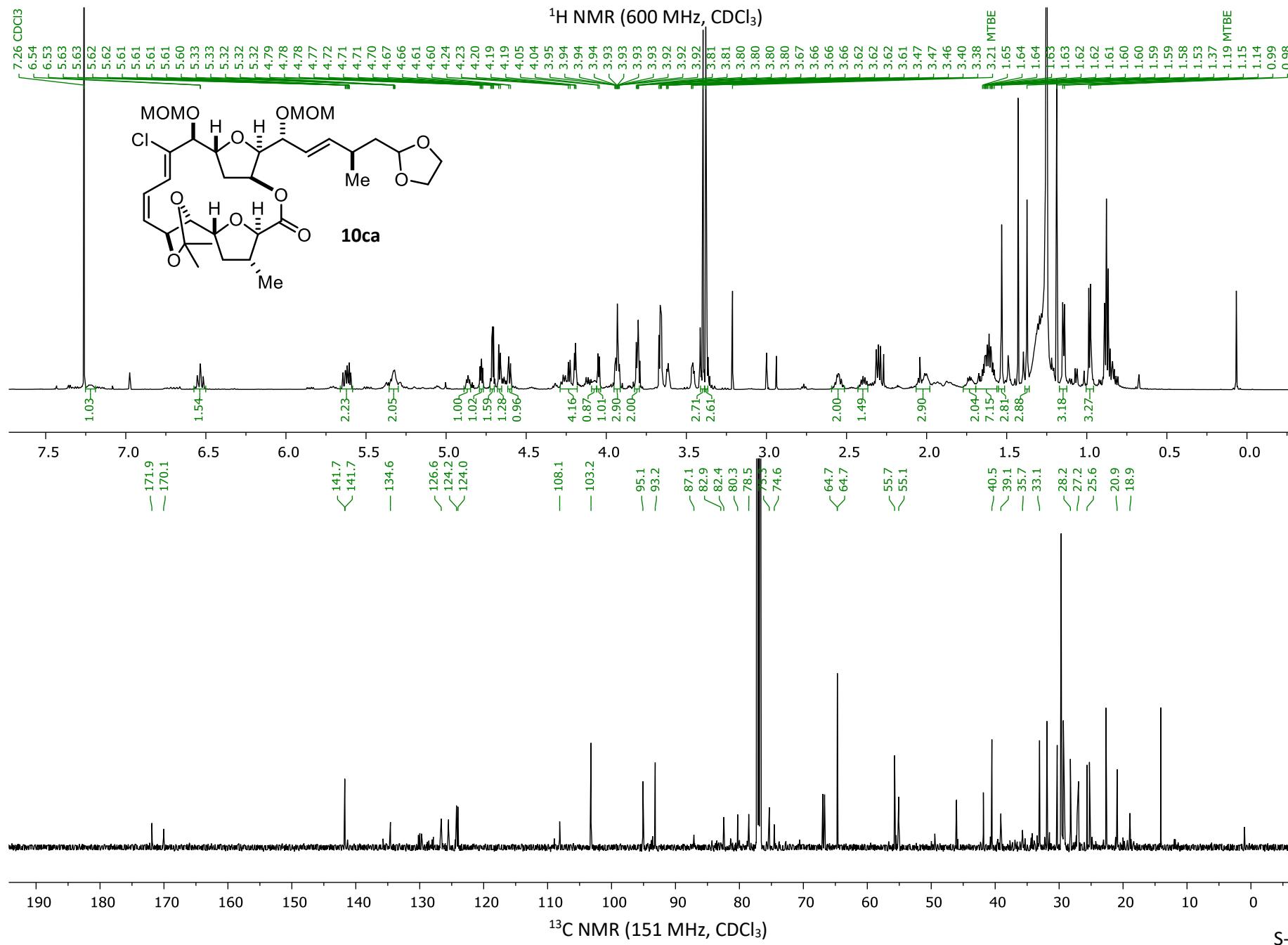
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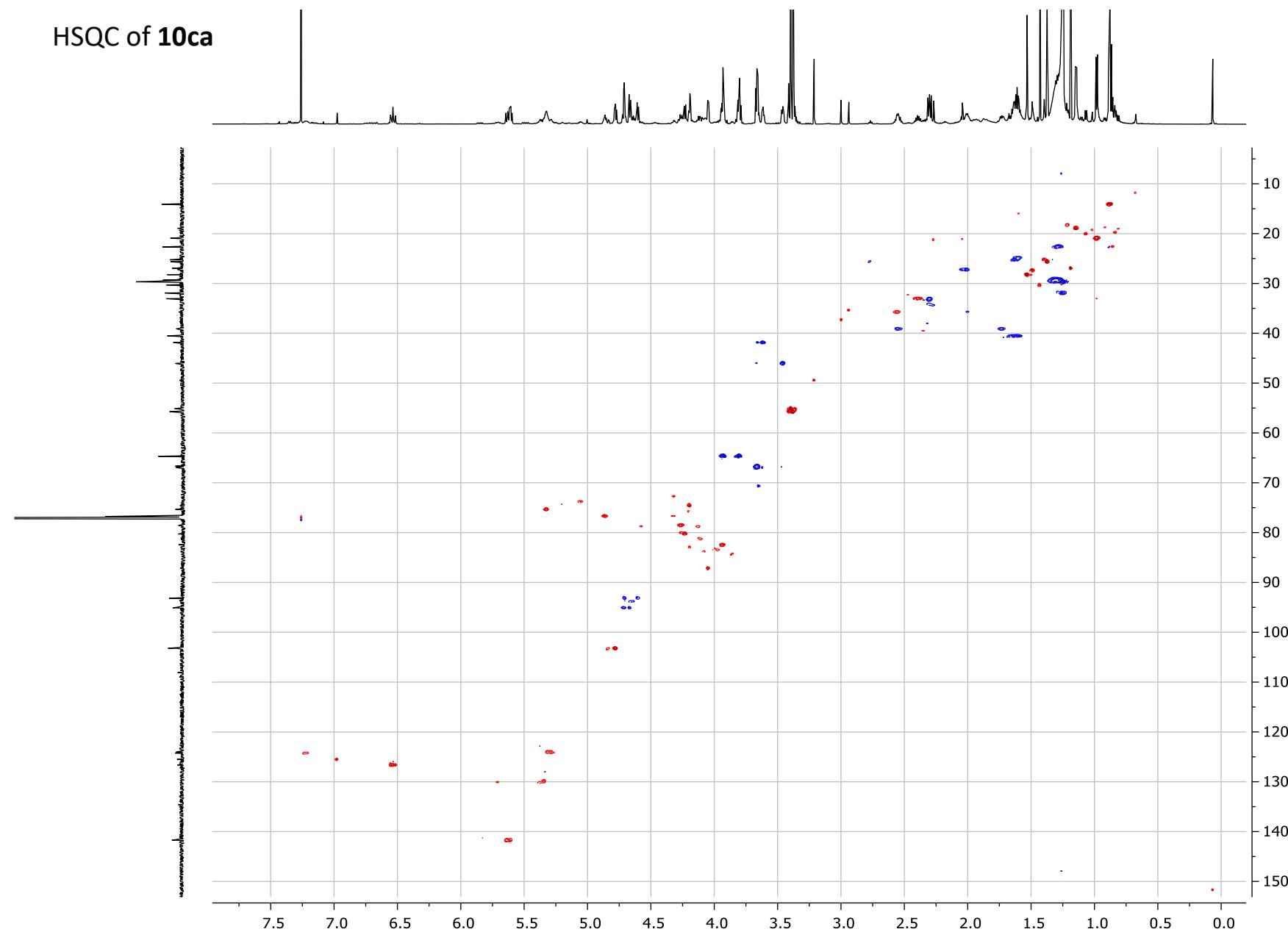


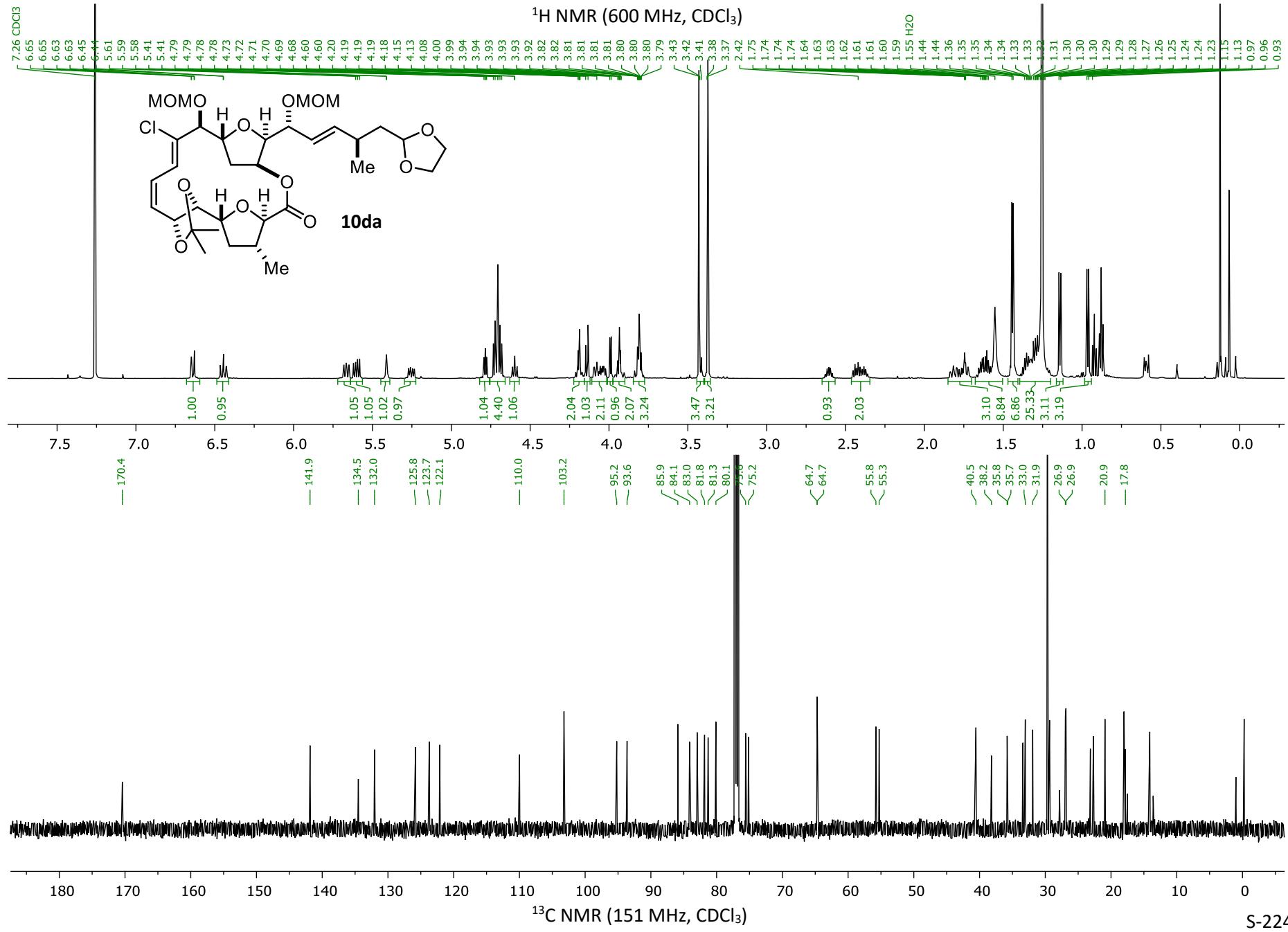


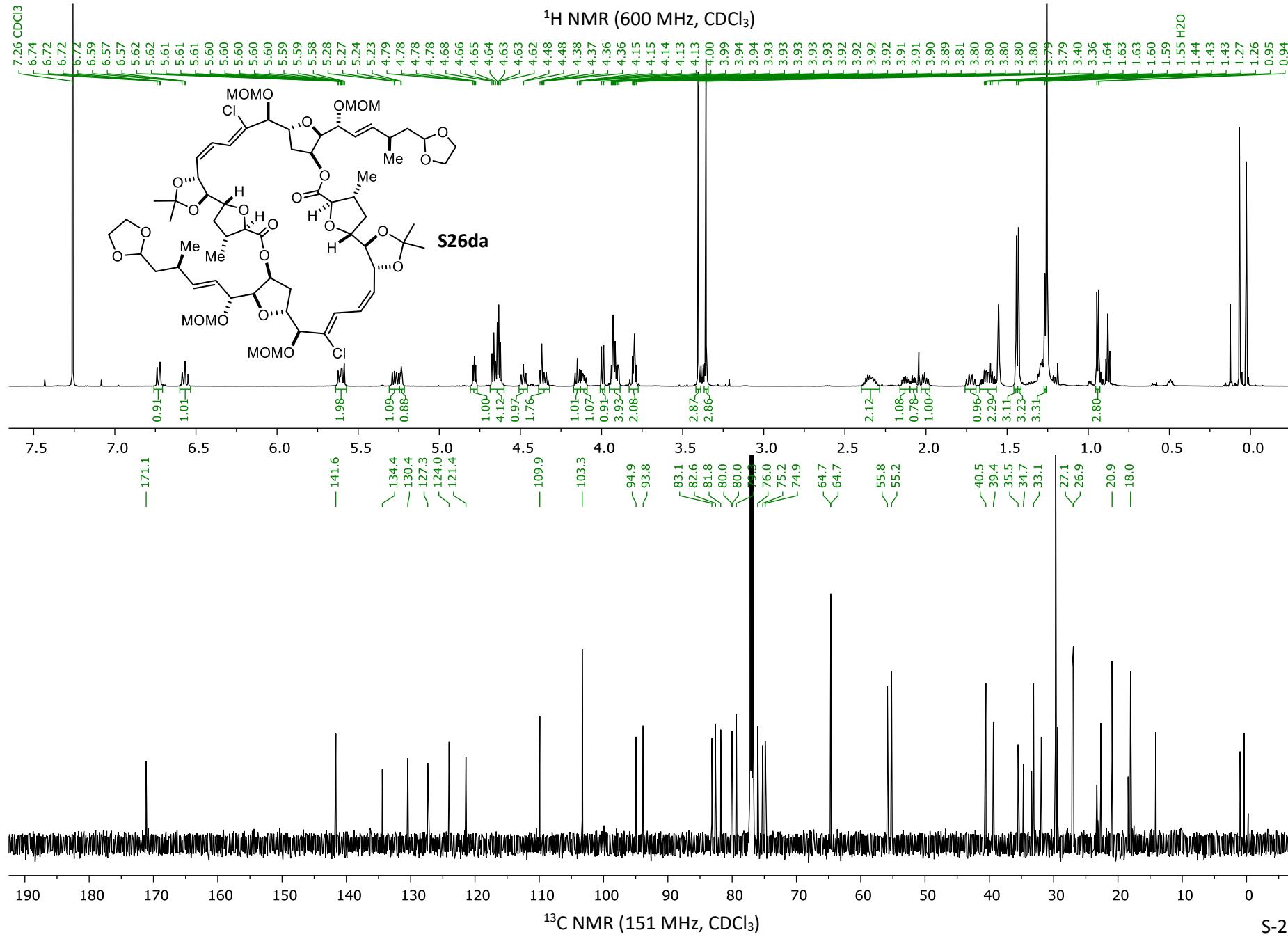


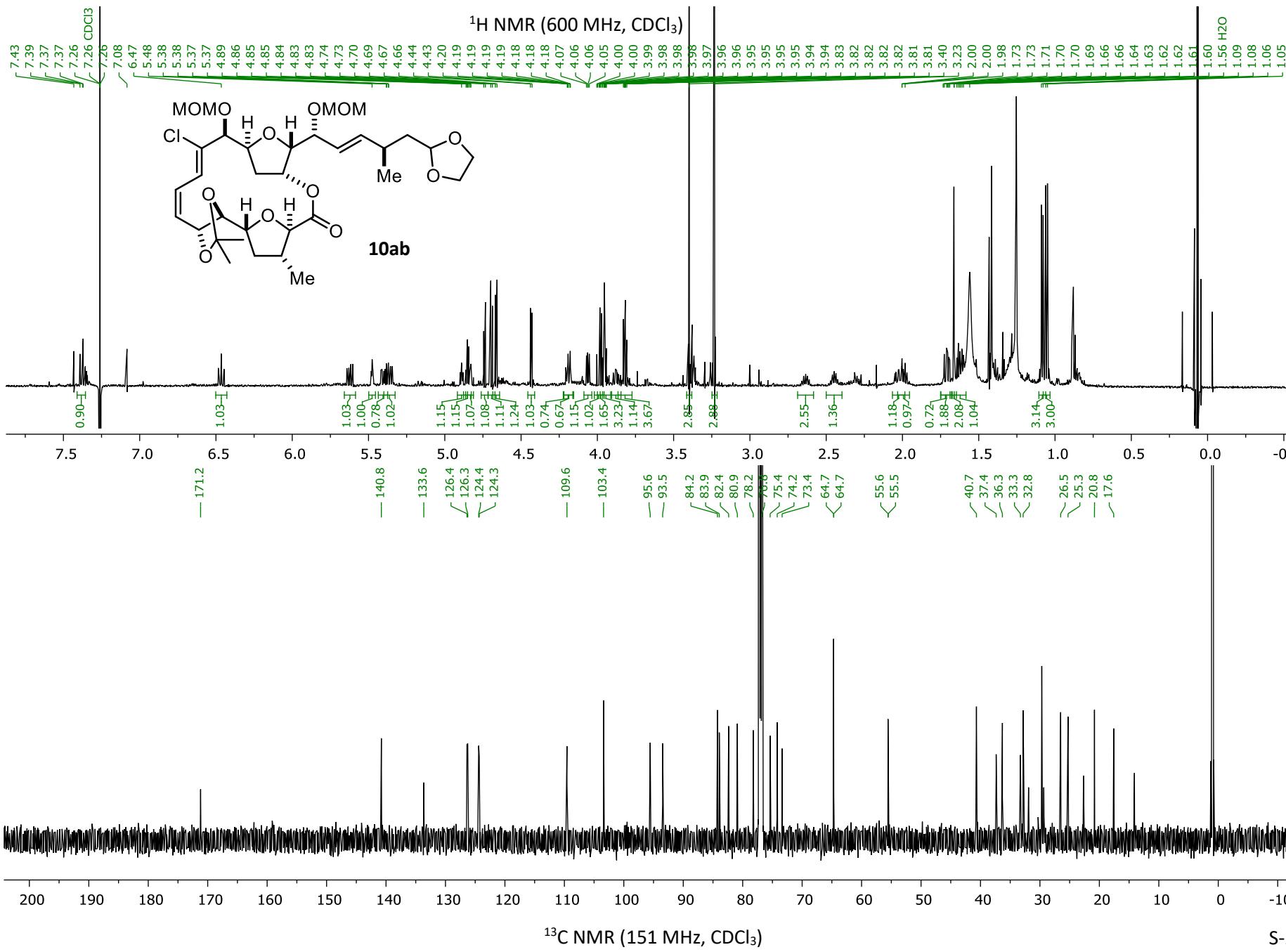


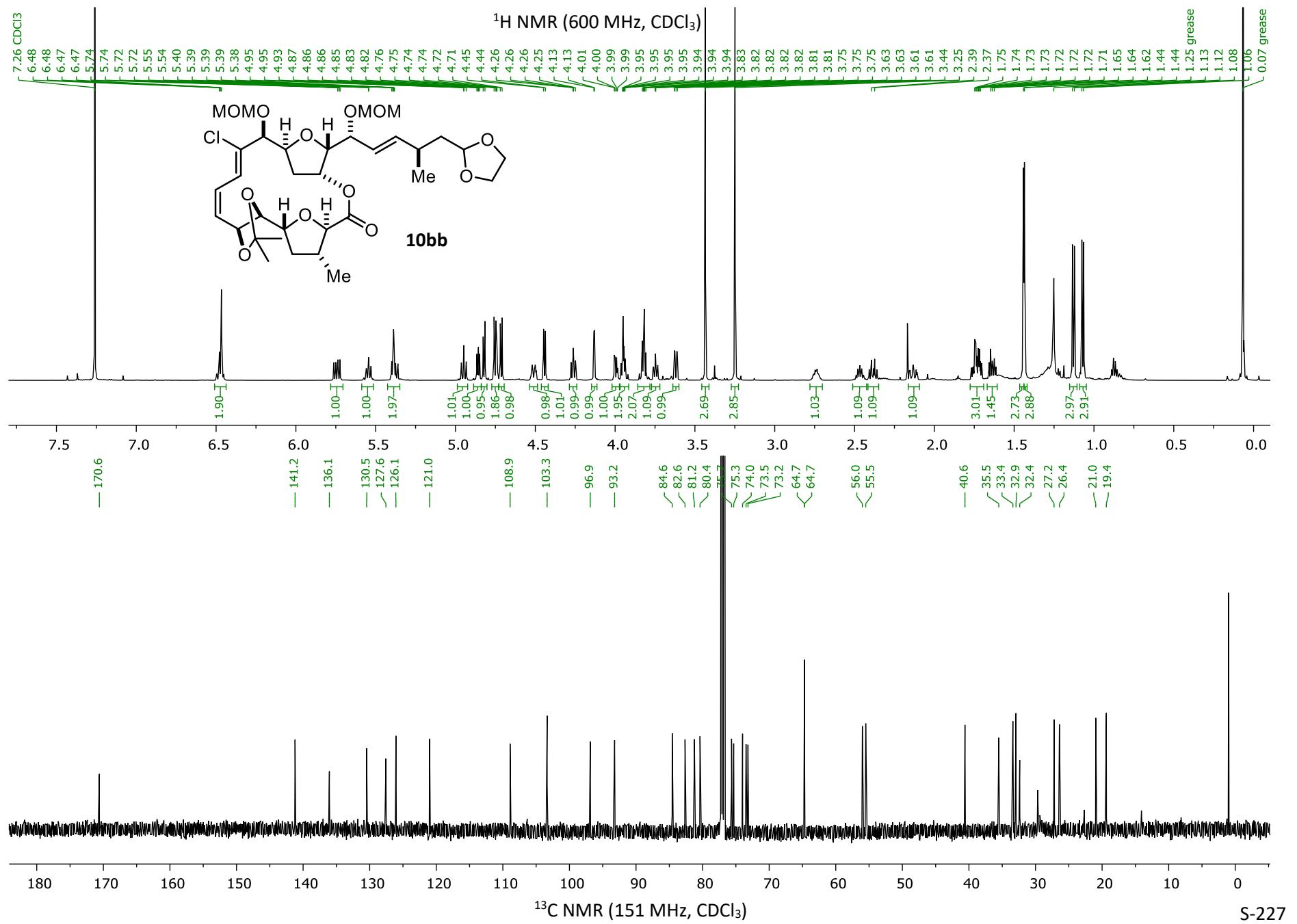
HSQC of **10ca**

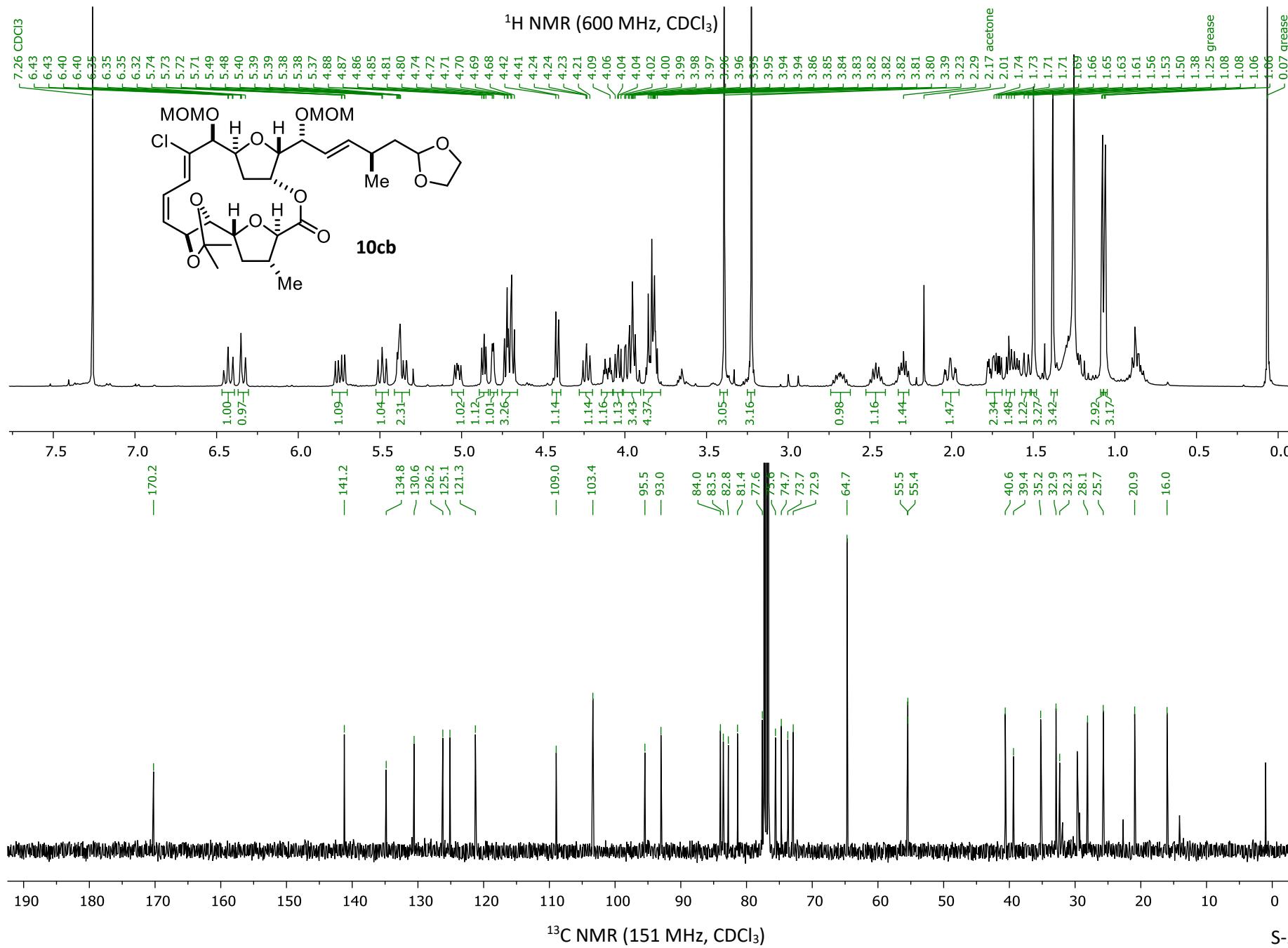


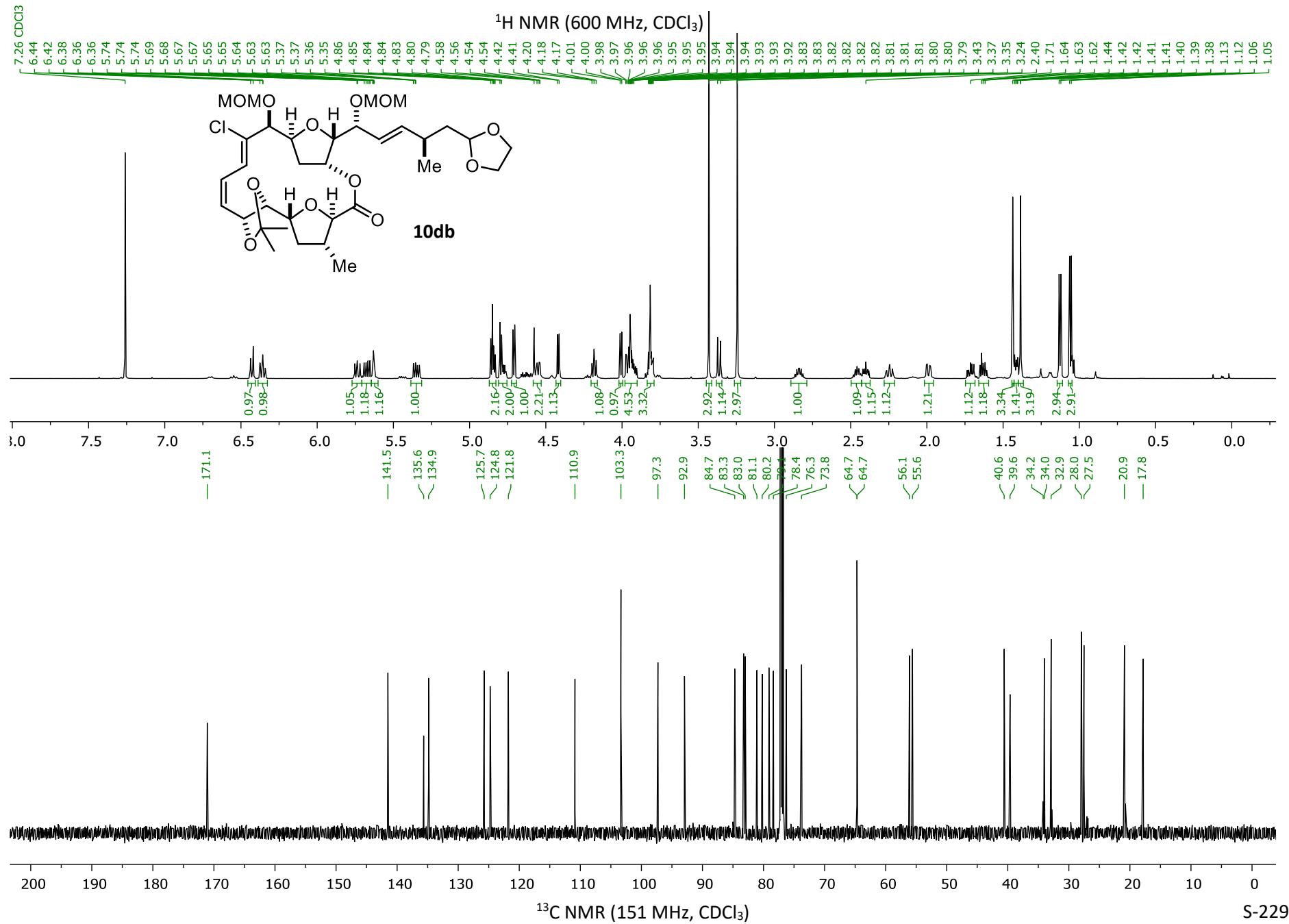


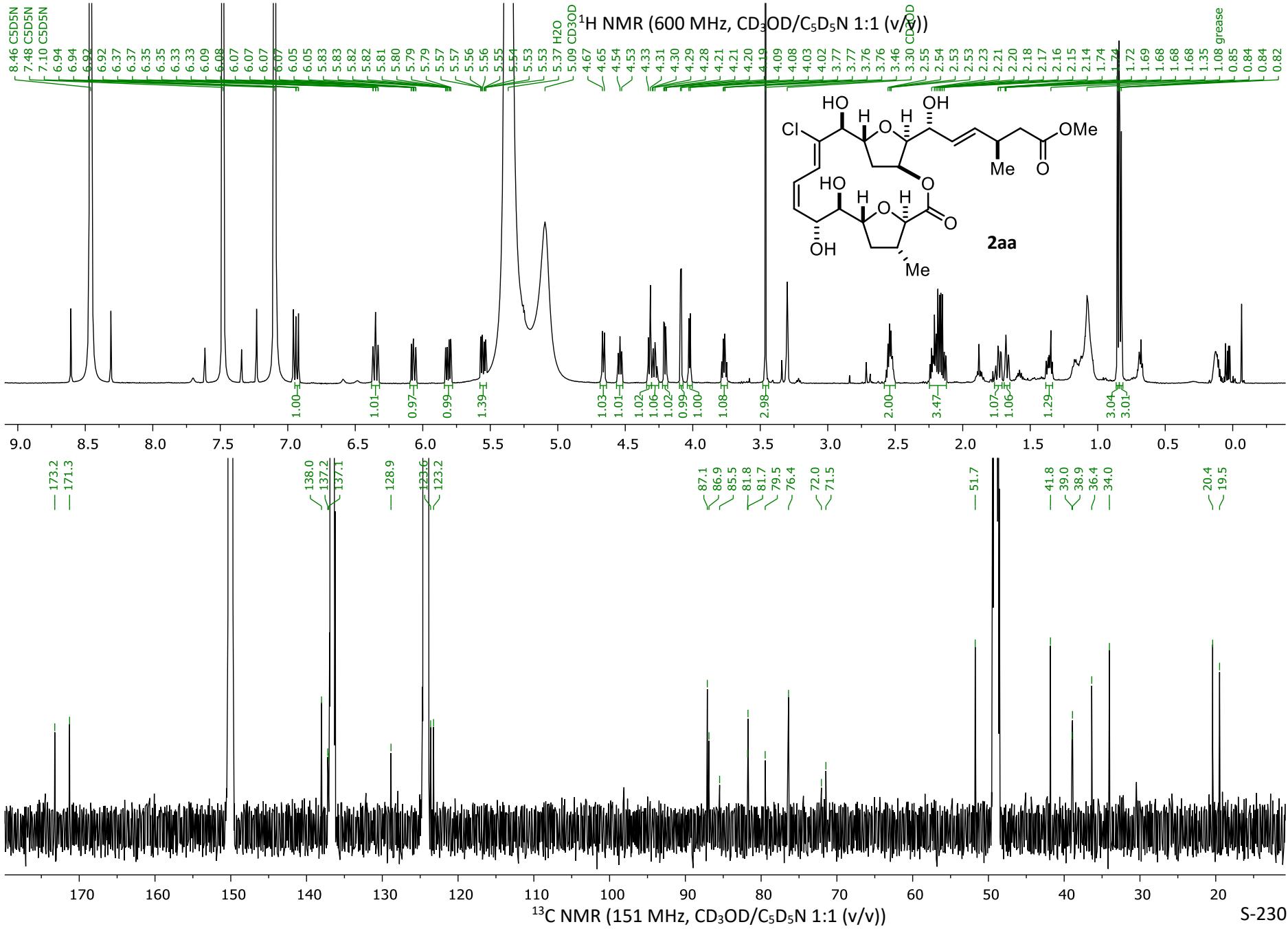


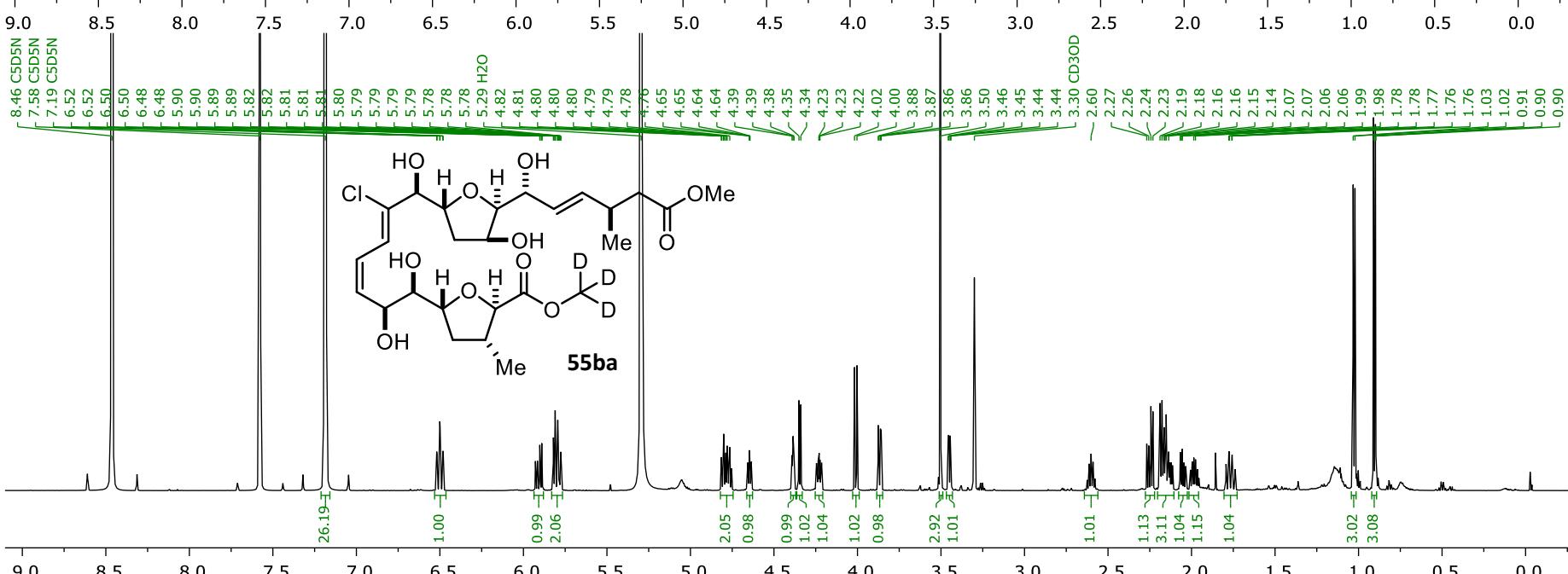
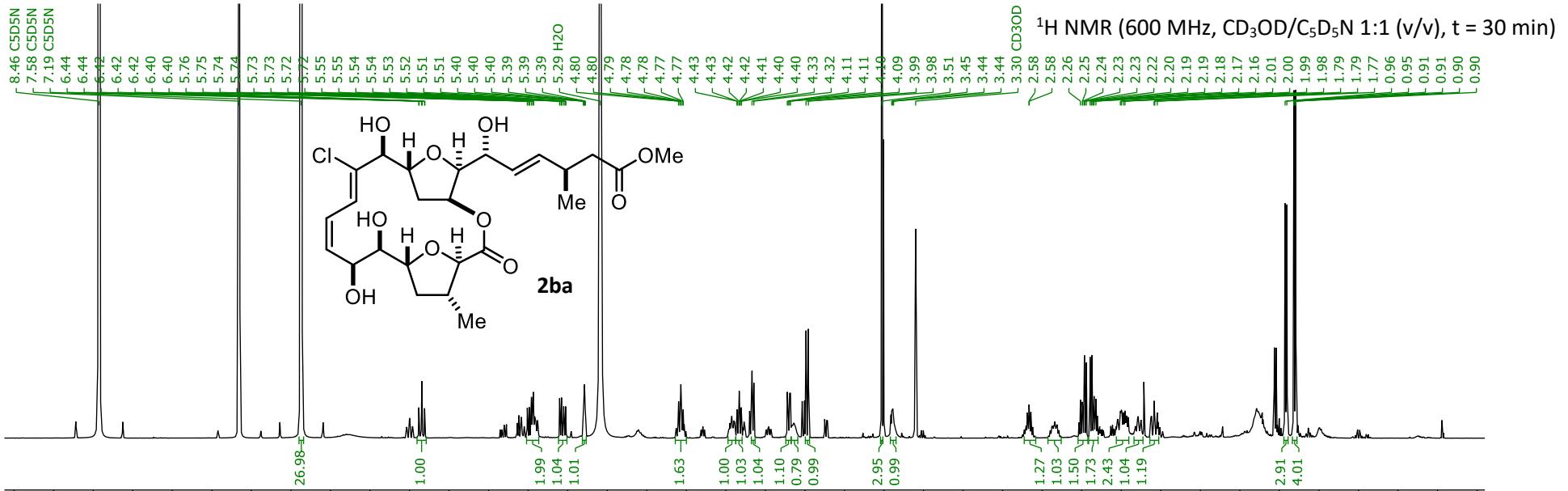




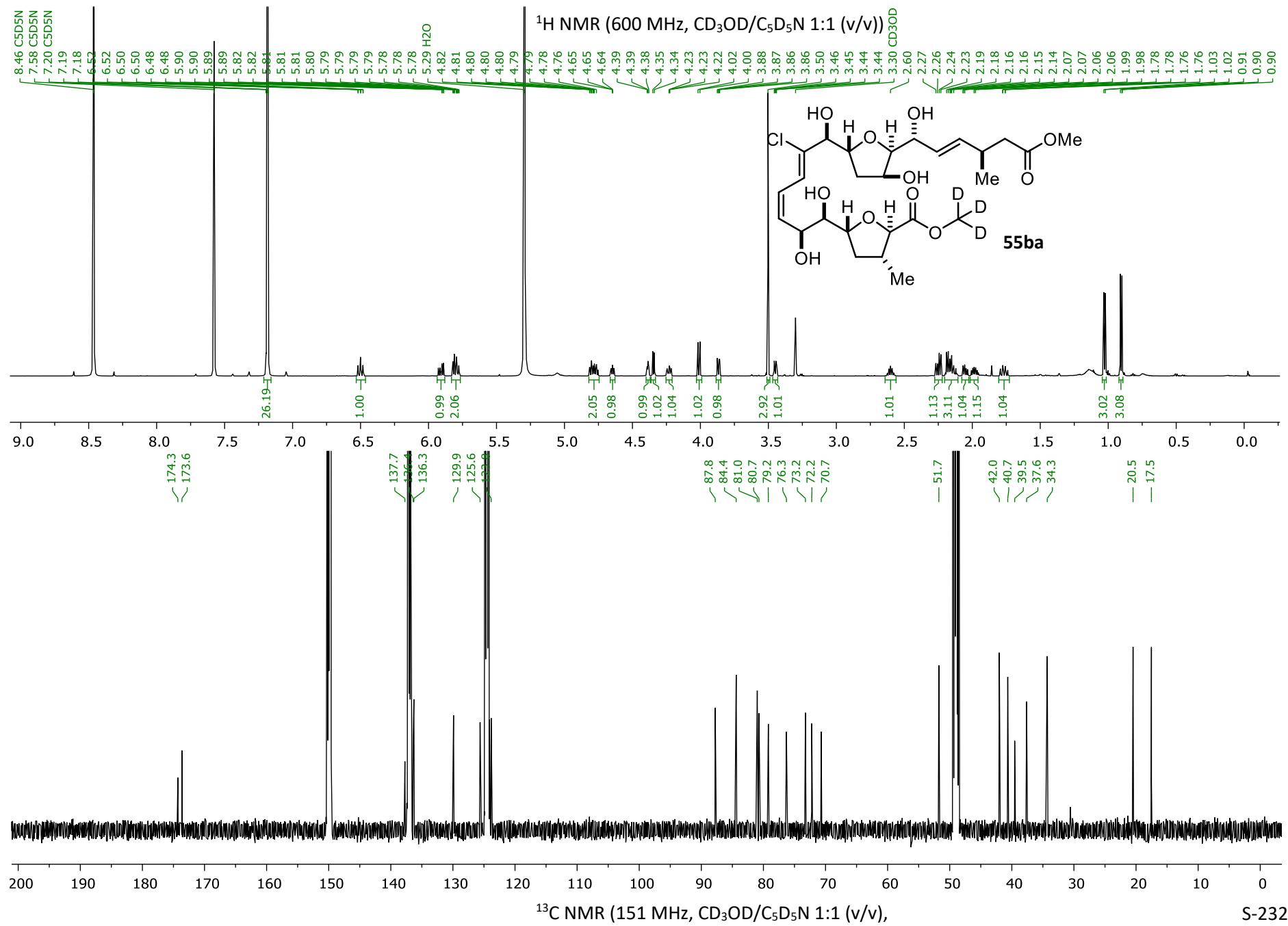


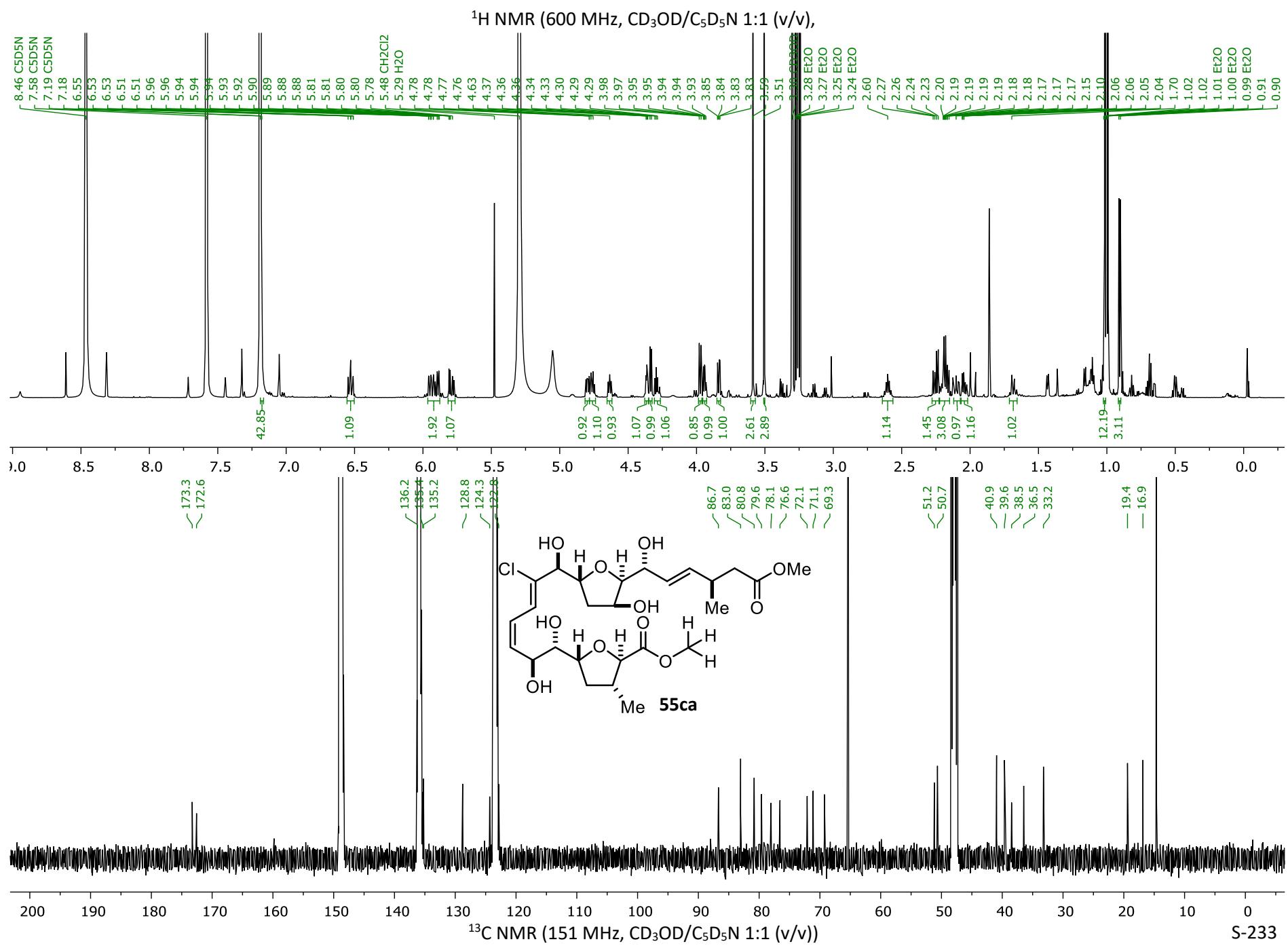


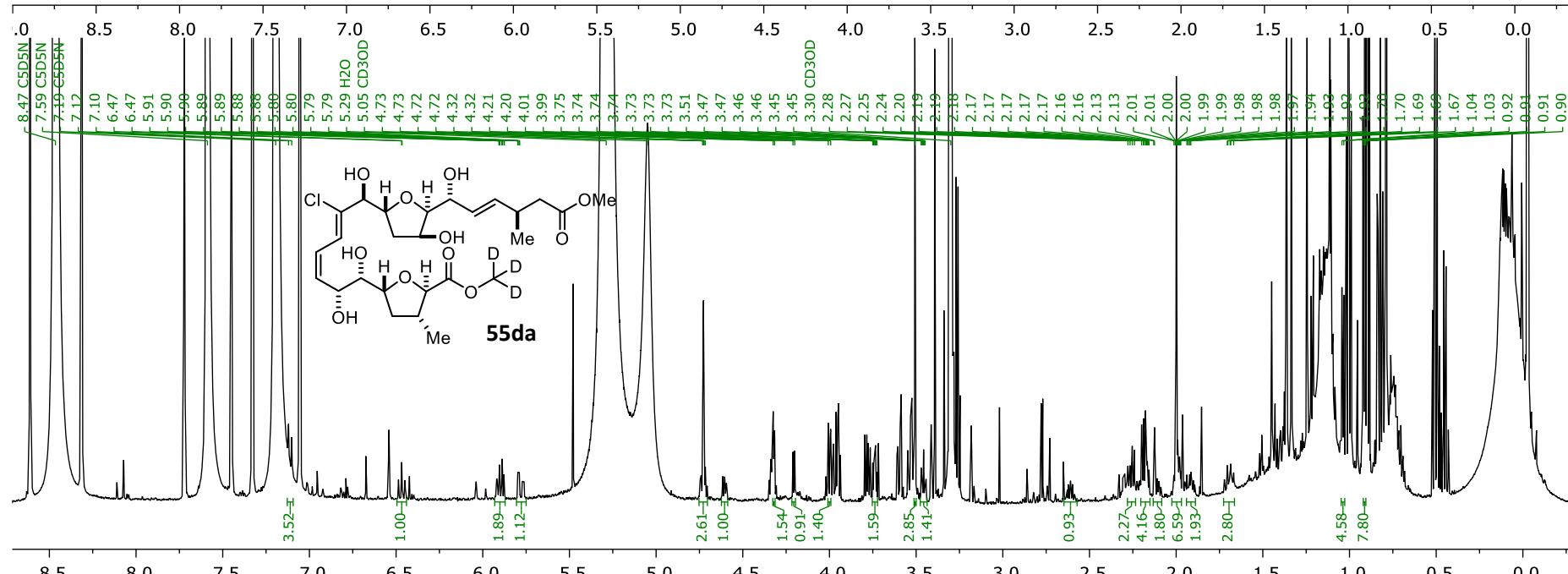
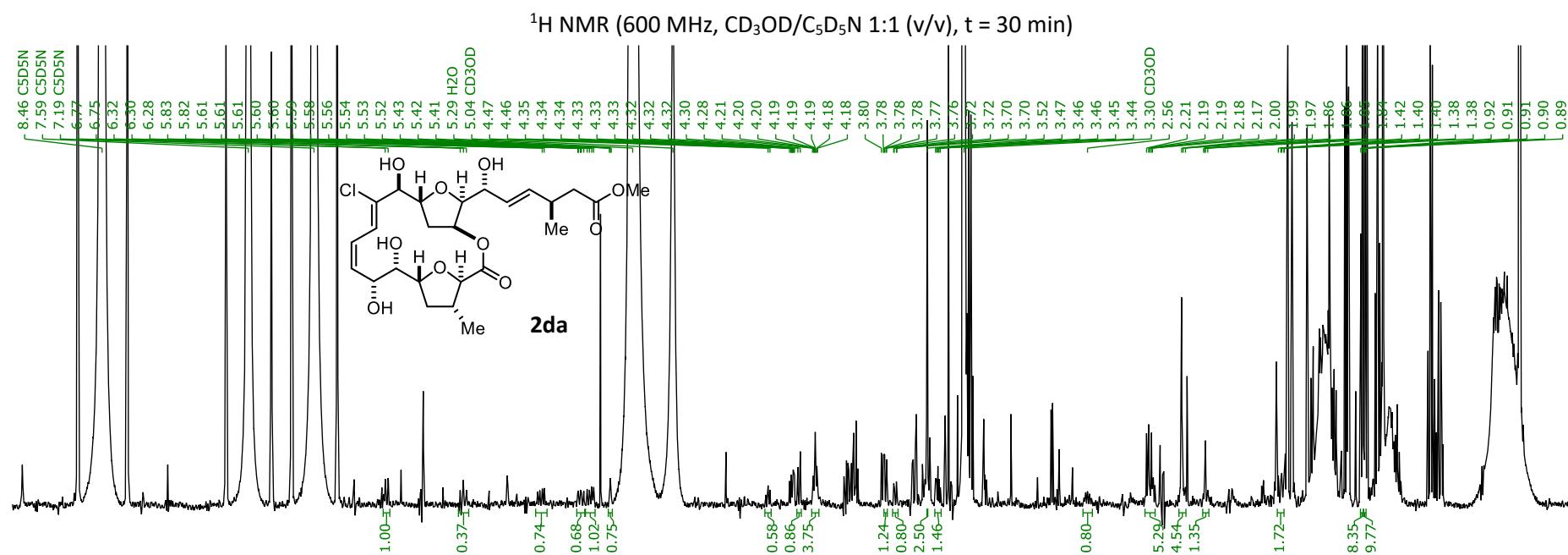




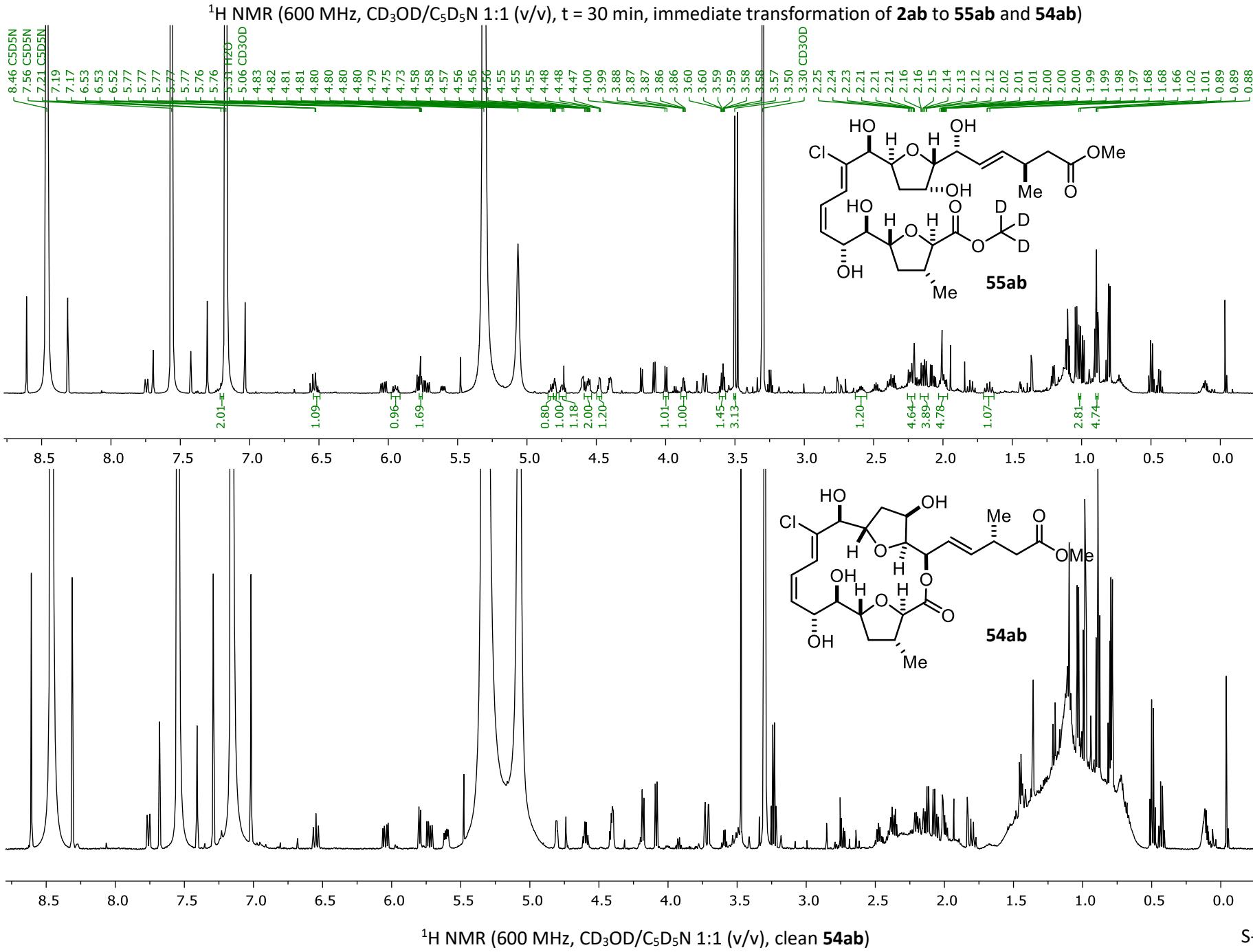
<sup>1</sup>H NMR (600 MHz, CD<sub>3</sub>OD/C<sub>5</sub>D<sub>5</sub>N 1:1 (v/v), t = 24 h)

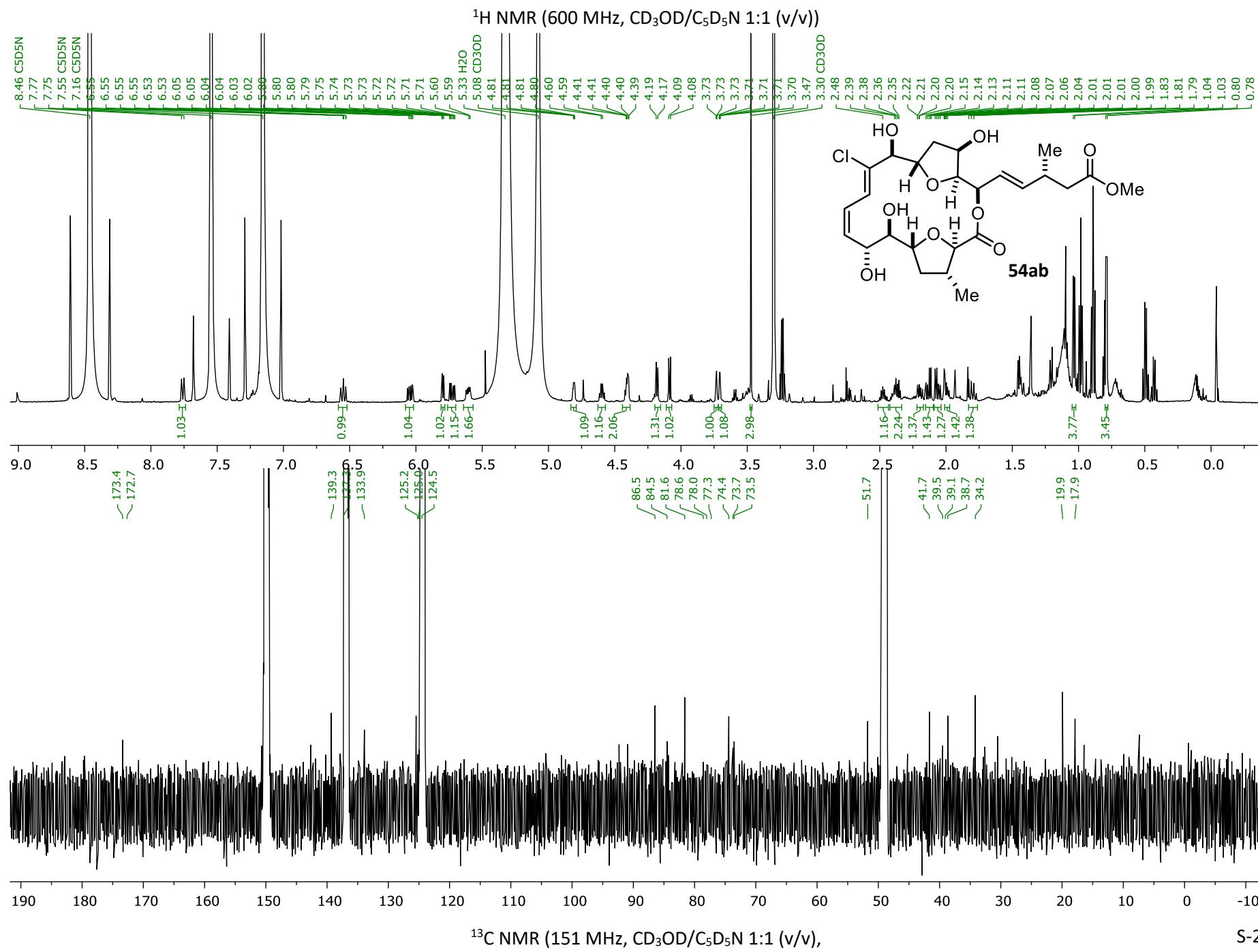




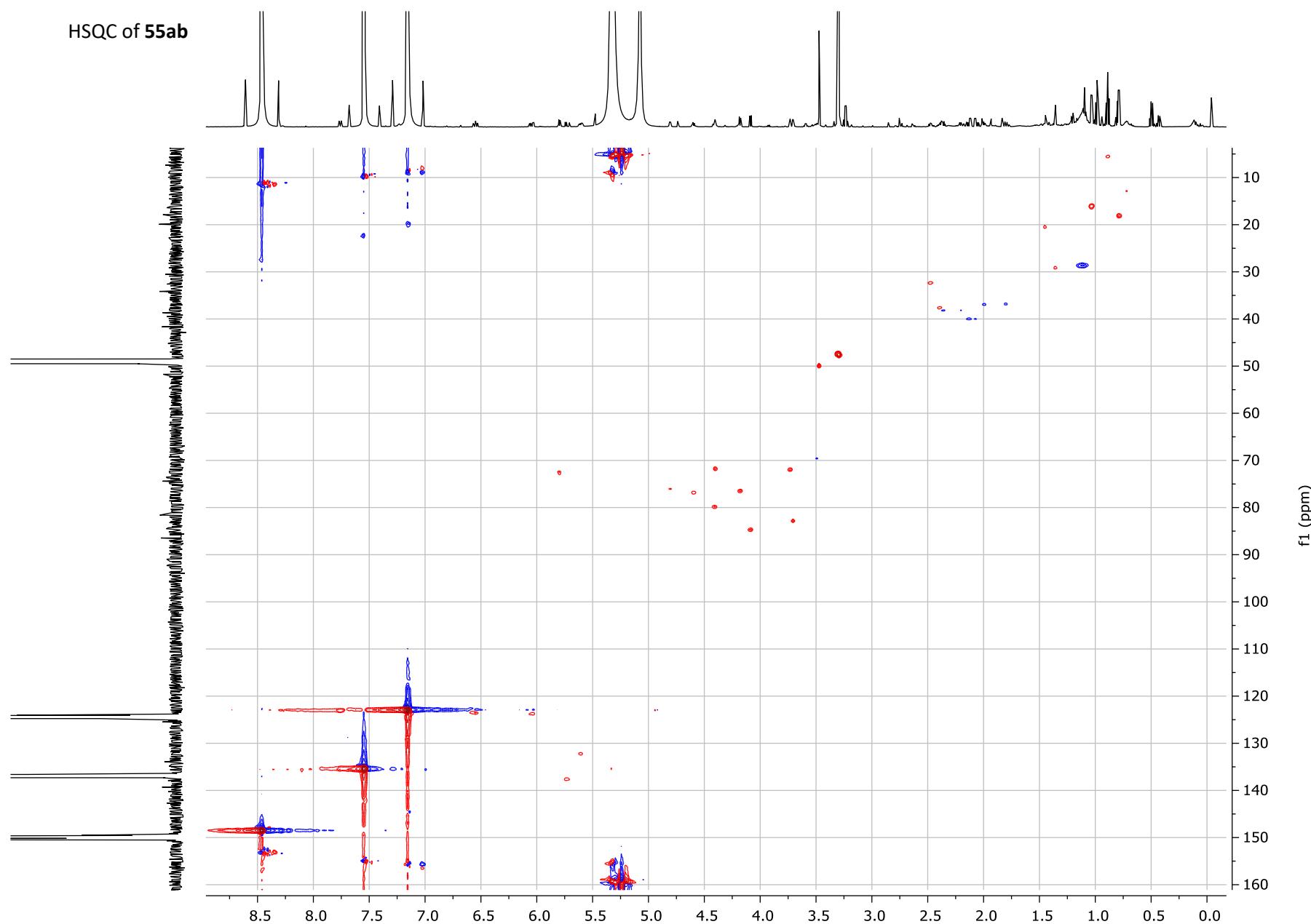


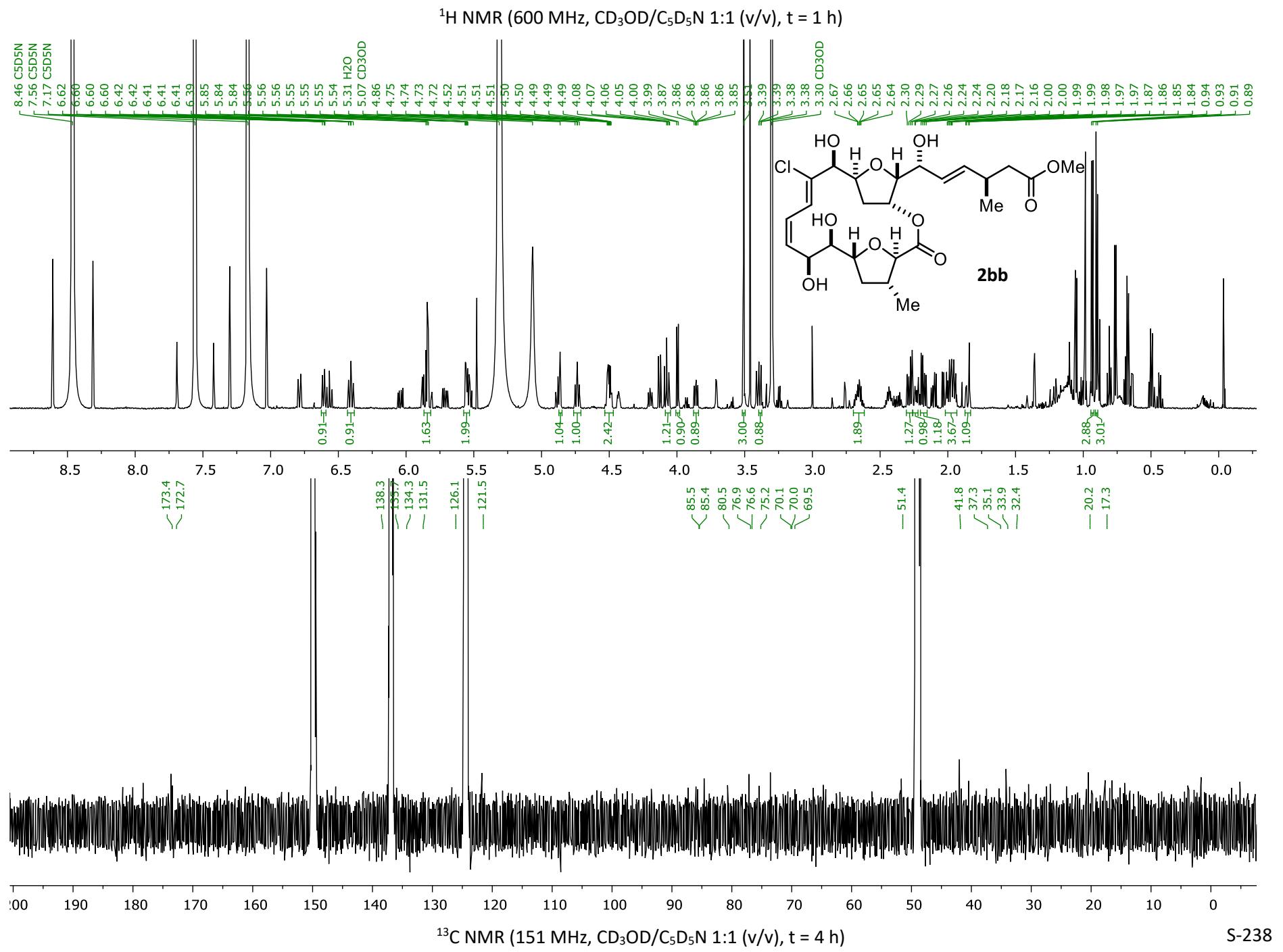
<sup>1</sup>H NMR (600 MHz, CD<sub>3</sub>OD/C<sub>5</sub>D<sub>5</sub>N 1:1 (v/v), t = 24 h)

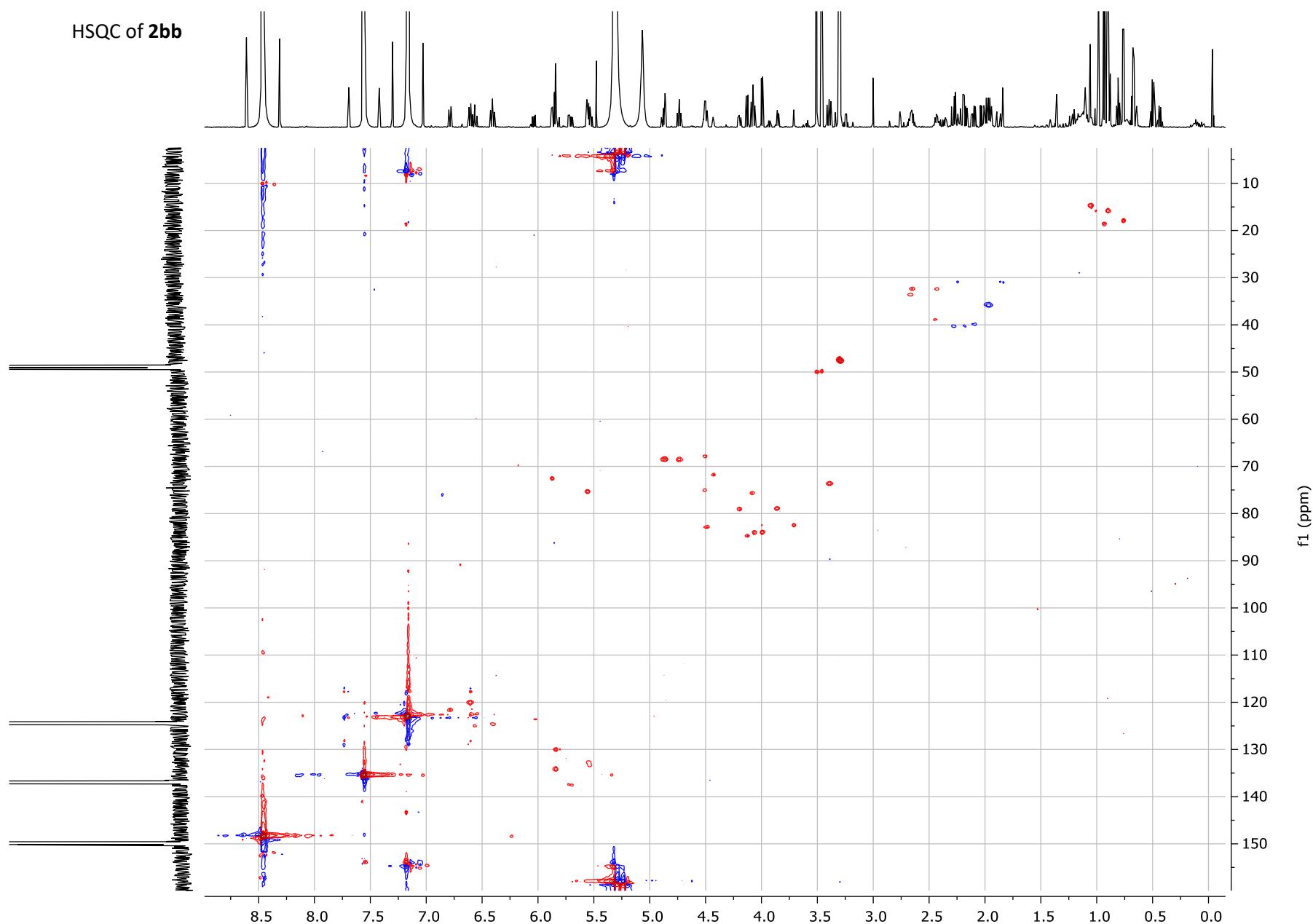


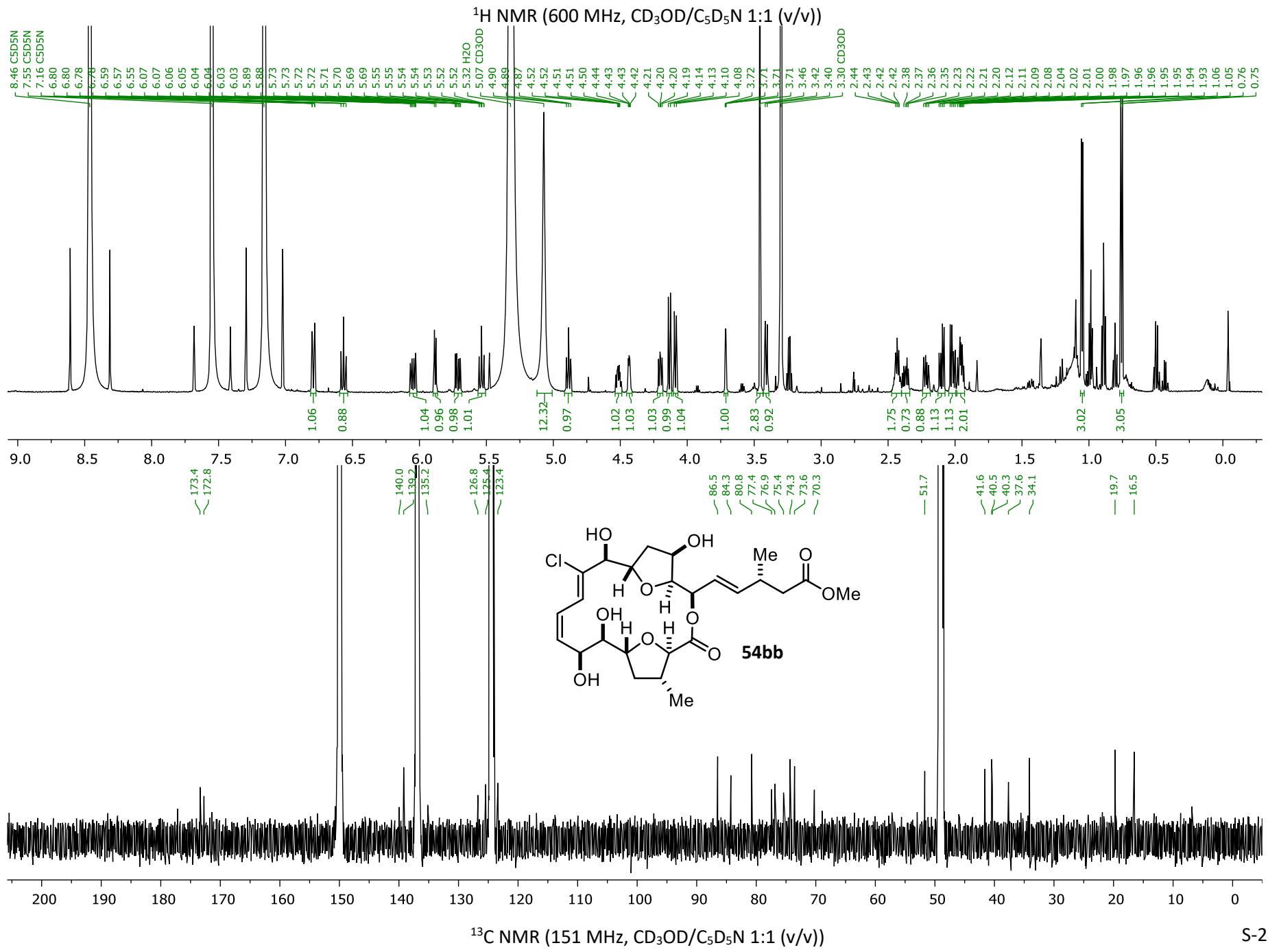


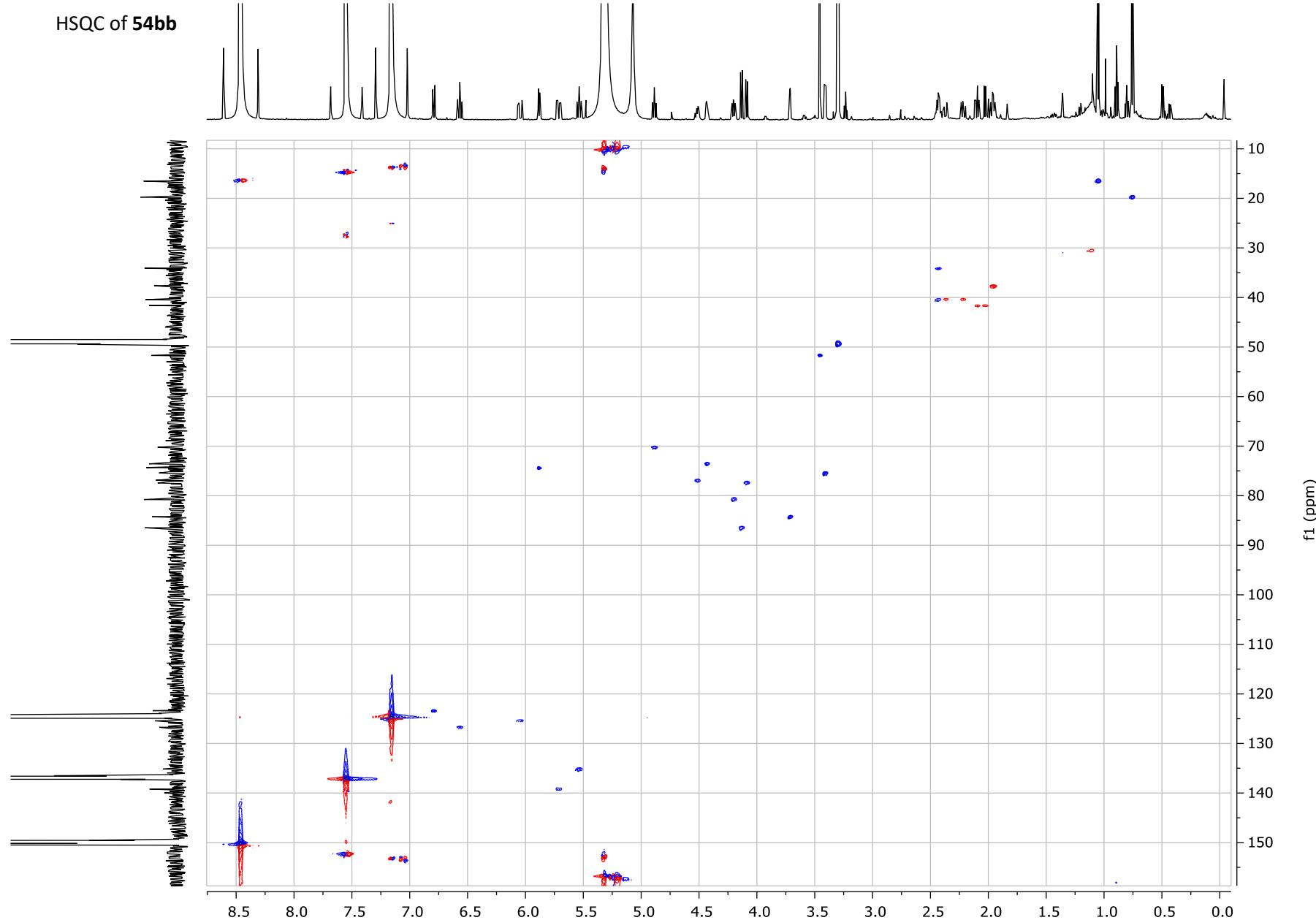
HSQC of **55ab**

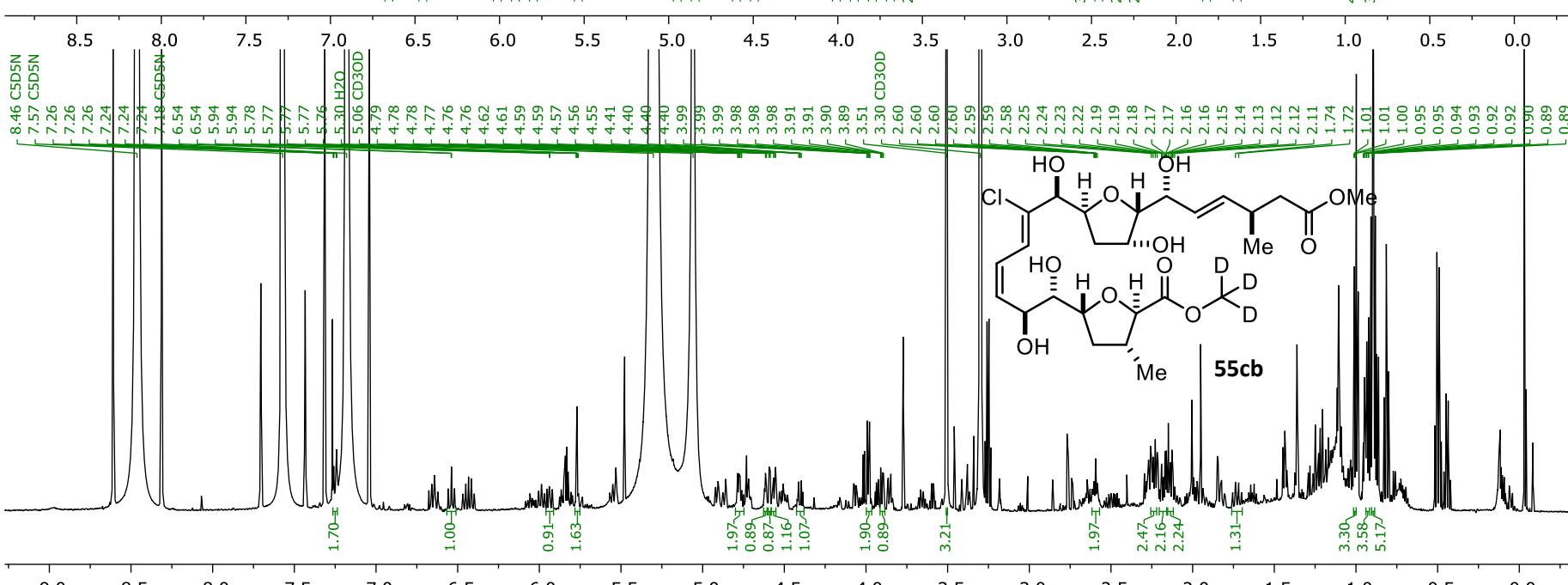
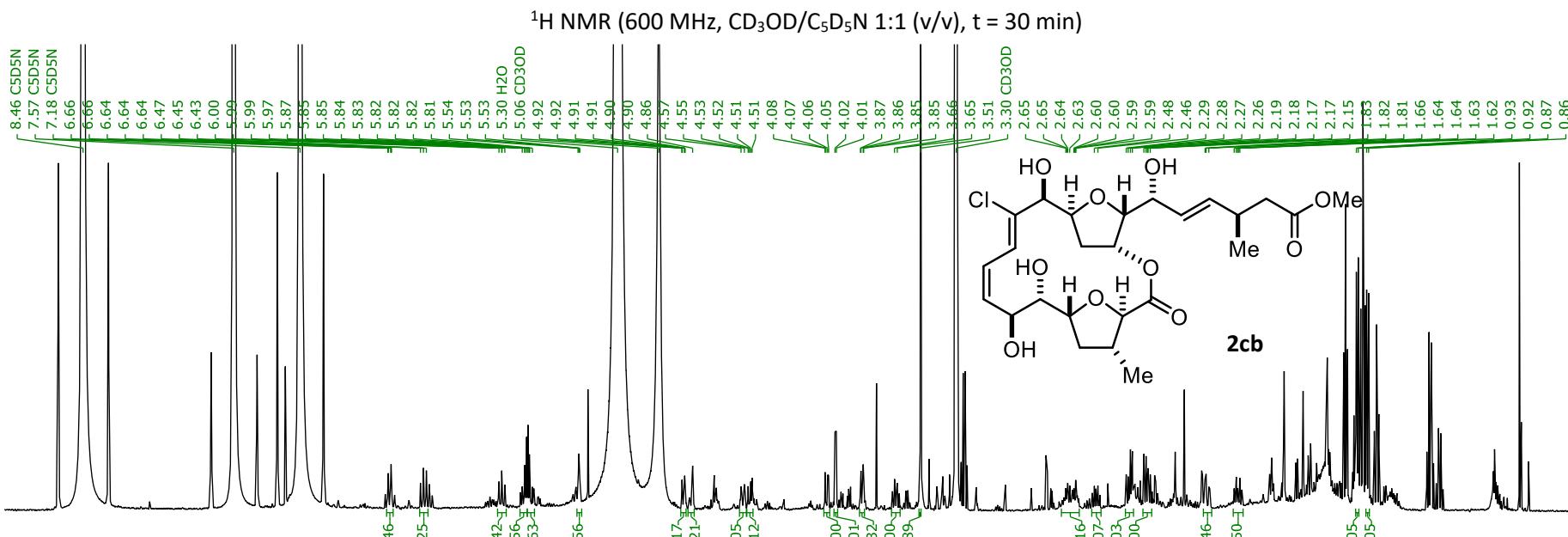












<sup>1</sup>H NMR (600 MHz, CD<sub>3</sub>OD/C<sub>5</sub>D<sub>5</sub>N 1:1 (v/v), t = 6 h)

