

**1-Octyl-3-(3-(1-methylpyrrolidiniumyl)propyl)imidazolium
Bis(trifluoromethane)sulfonimide**

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Supporting Information

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Figure S1. ^1H NMR (CD_3OD) spectrum of compound **1**.

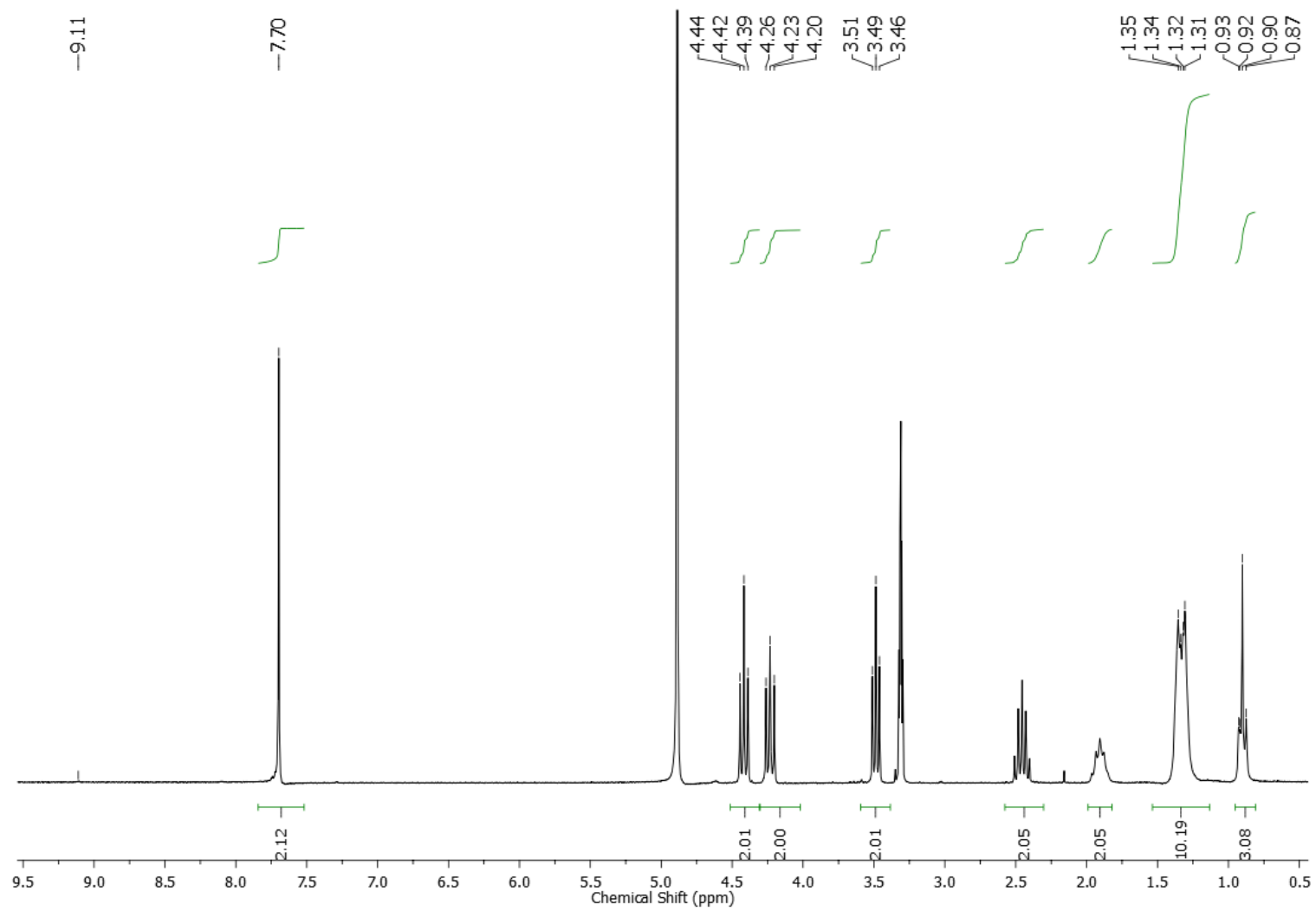


Figure S2. ^{13}C NMR (CD_3OD) spectrum of compound **1**.

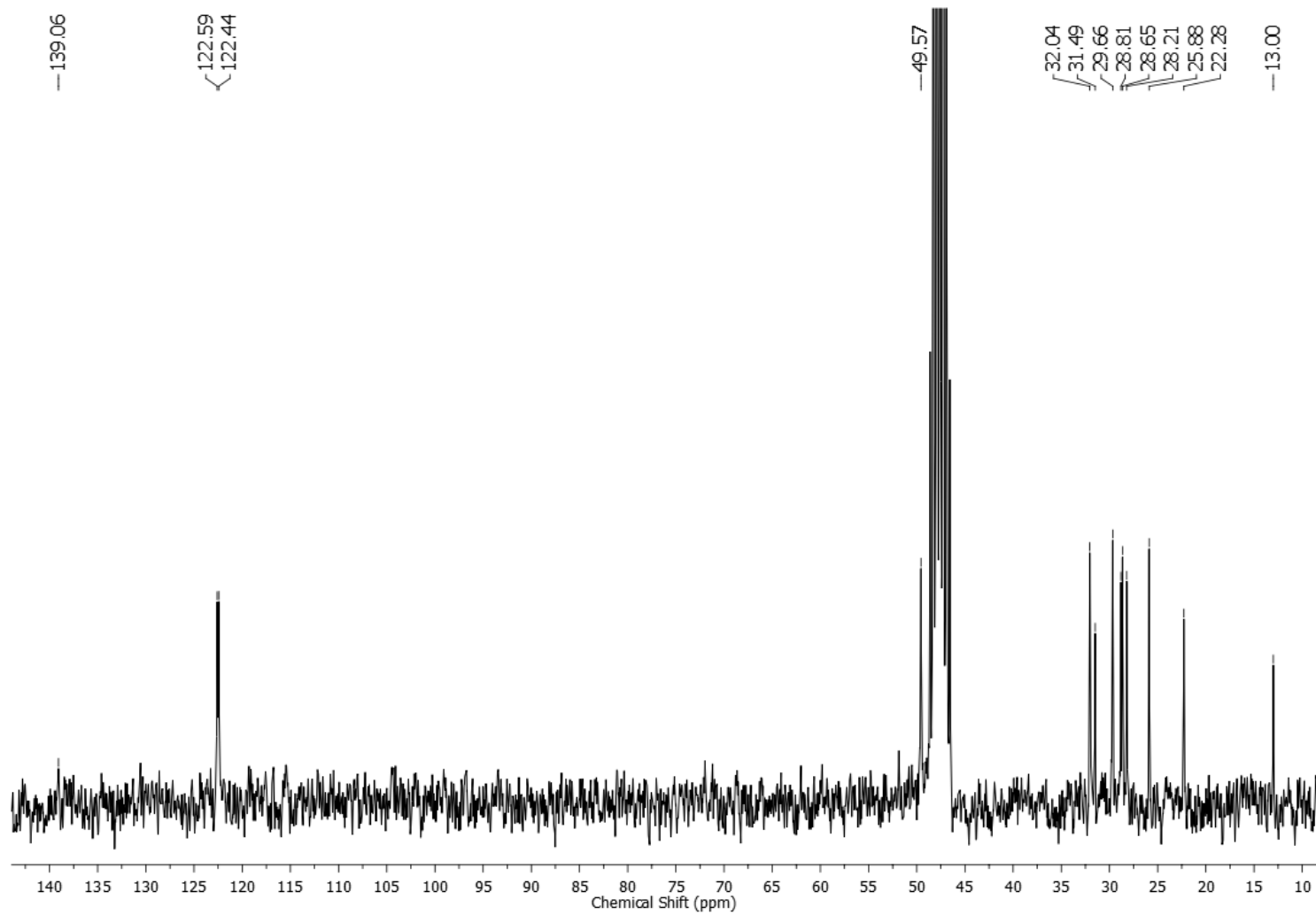


Figure S3. ^1H NMR (CD_3OD) spectrum of compound 2.

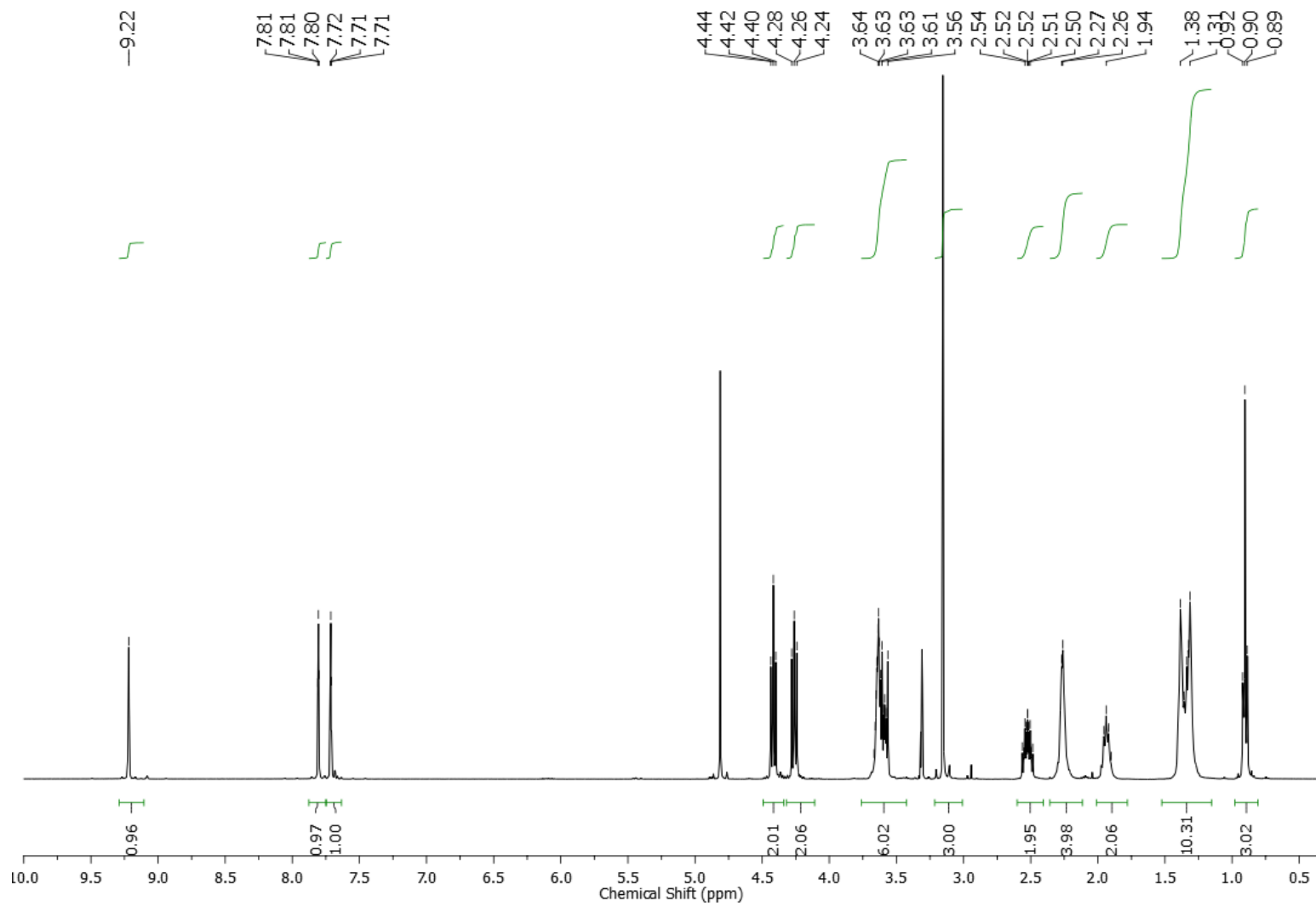


Figure S4. ^{13}C NMR (CD_3OD) spectrum of compound 2.

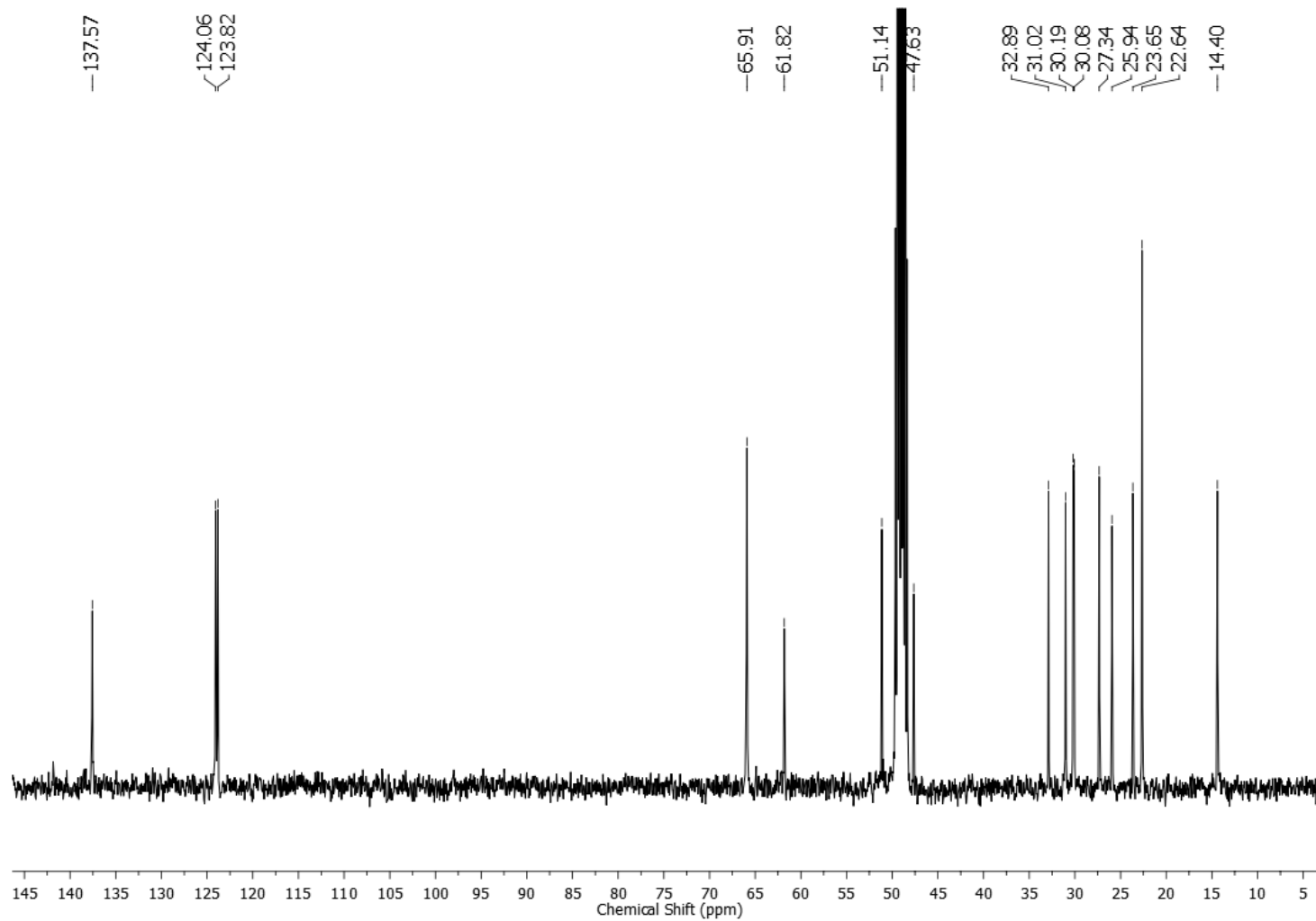


Figure S5. ^1H NMR ($\text{CD}_3\text{OD}-\text{CDCl}_3$) spectrum of compound **3**.

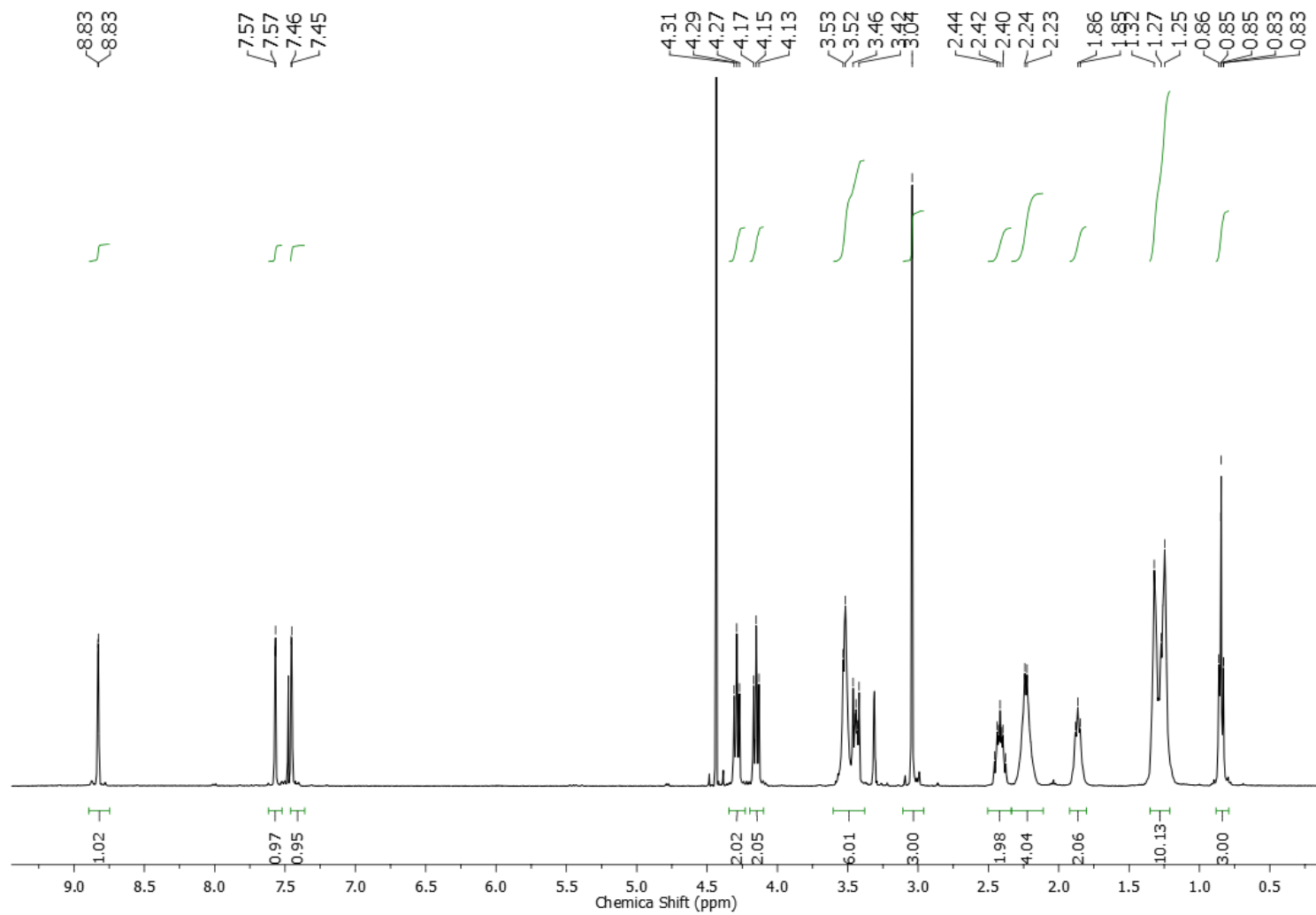


Figure S6. ^{13}C NMR spectrum ($\text{CD}_3\text{OD}-\text{CDCl}_3$) of compound **3**.

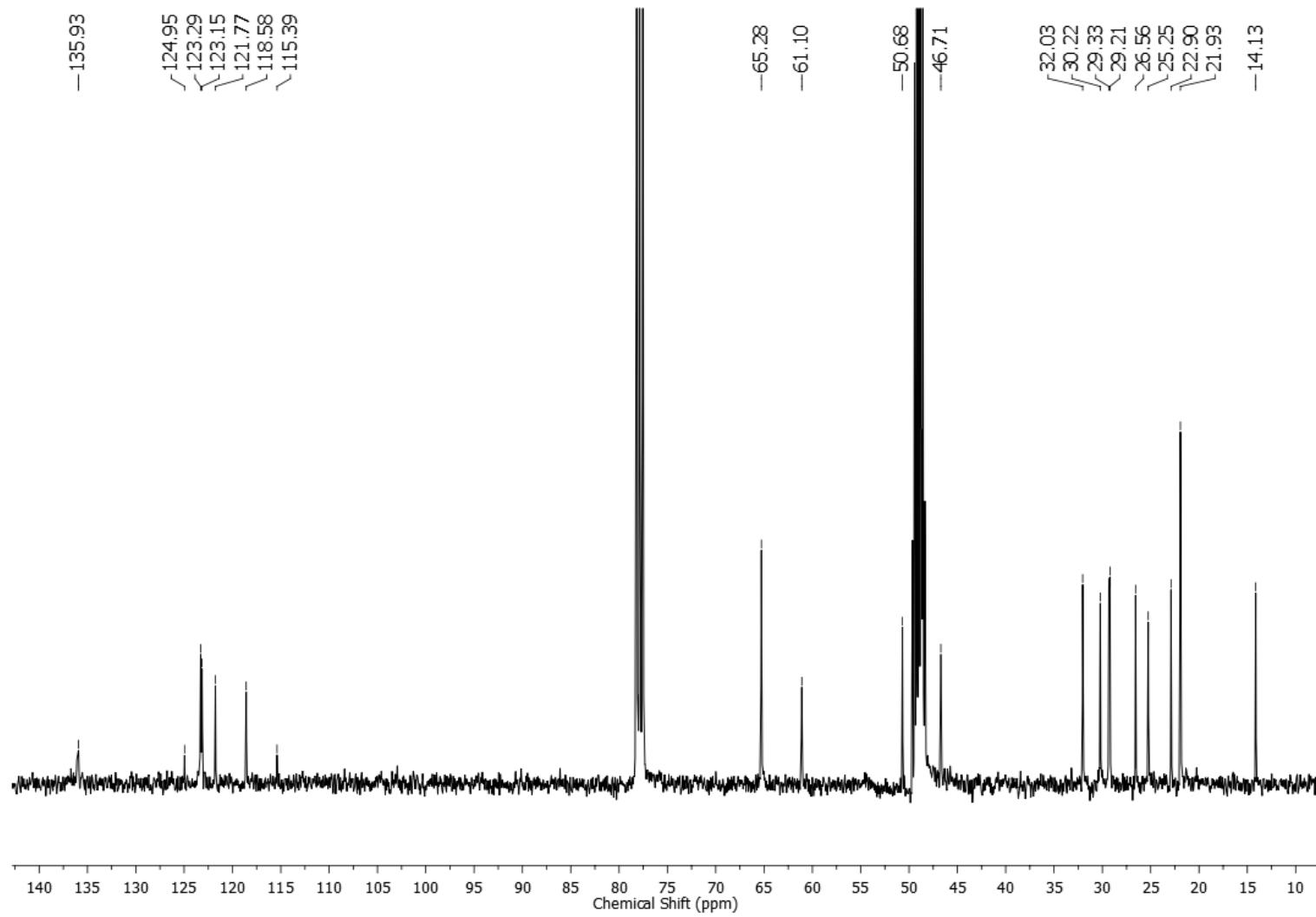


Figure S7. Thermal gravimetric analysis and derivative of compound 1.

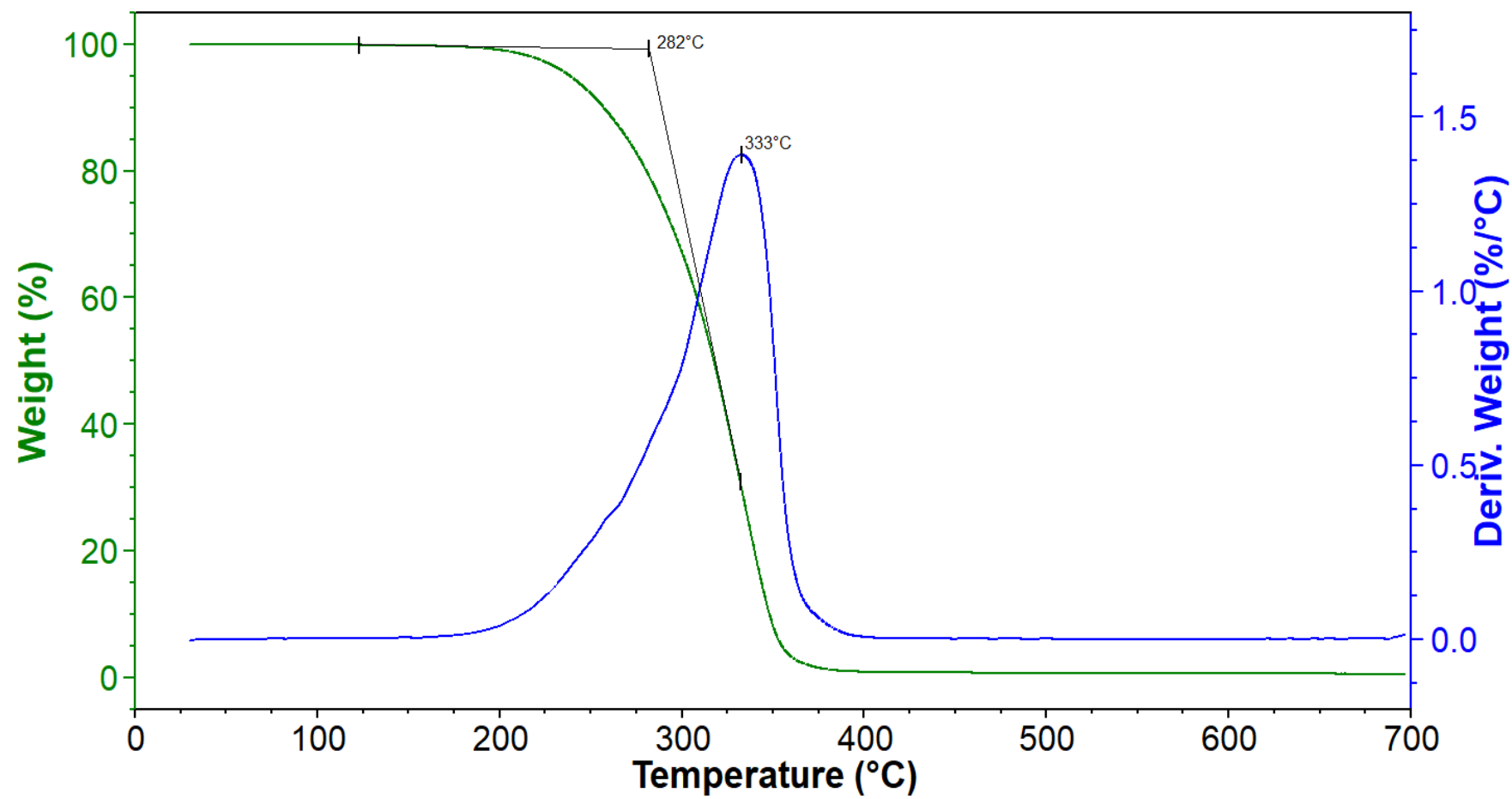


Figure S8. Thermal gravimetric analysis and derivative of compound 2.

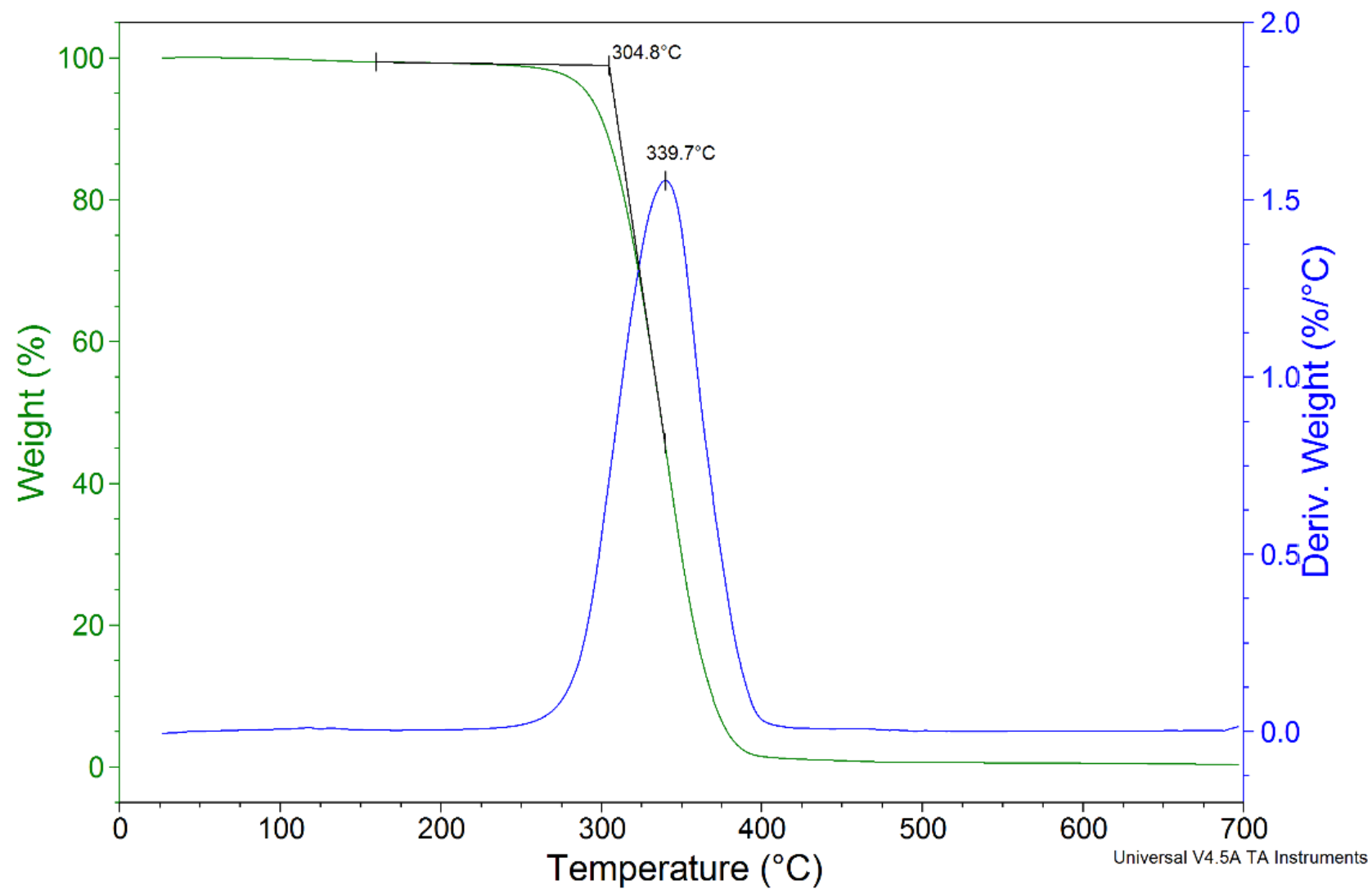


Figure S9. Thermal gravimetric analysis and derivative of compound 3.

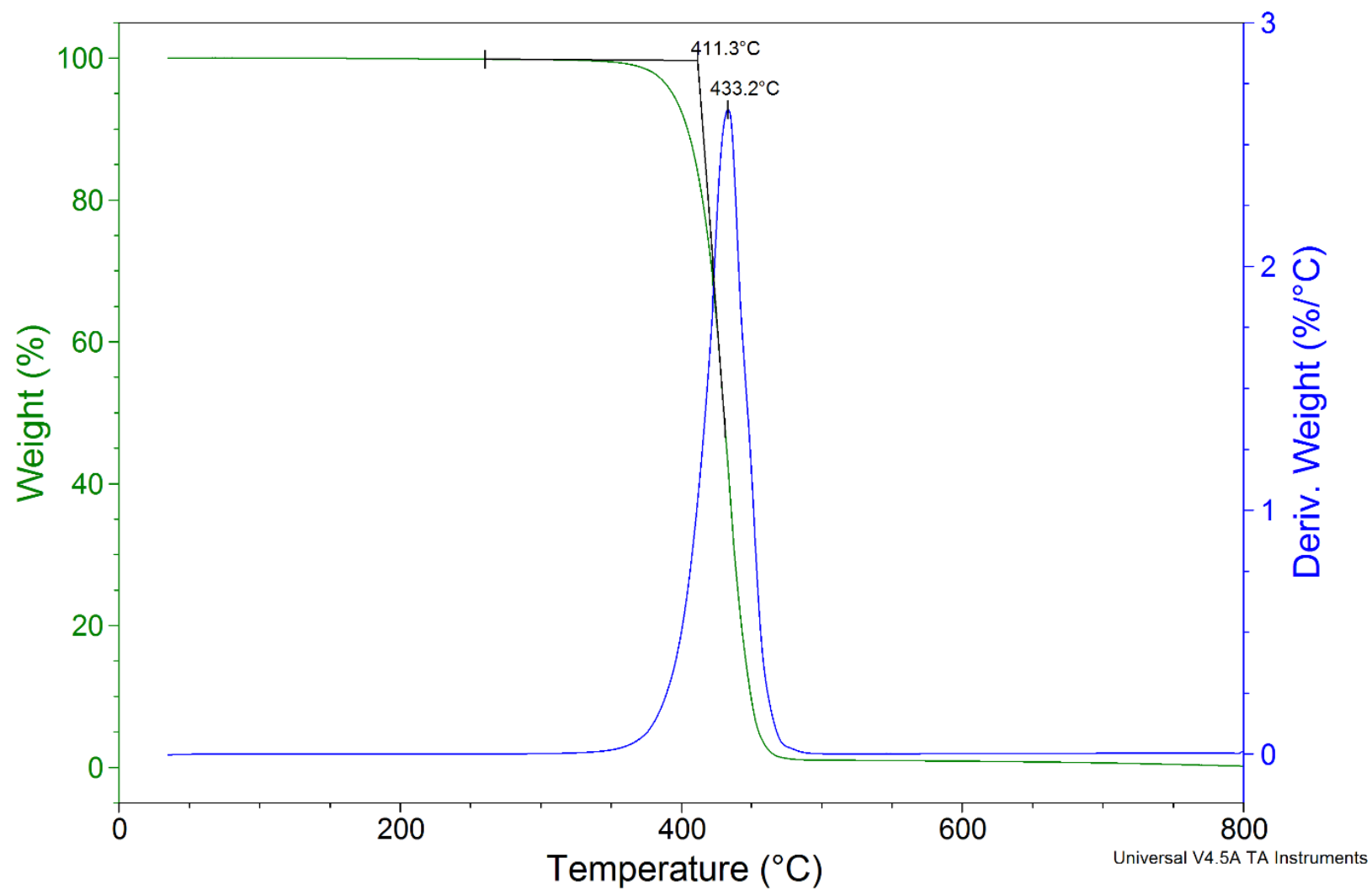


Figure S10. DSC thermograph of compound 1.

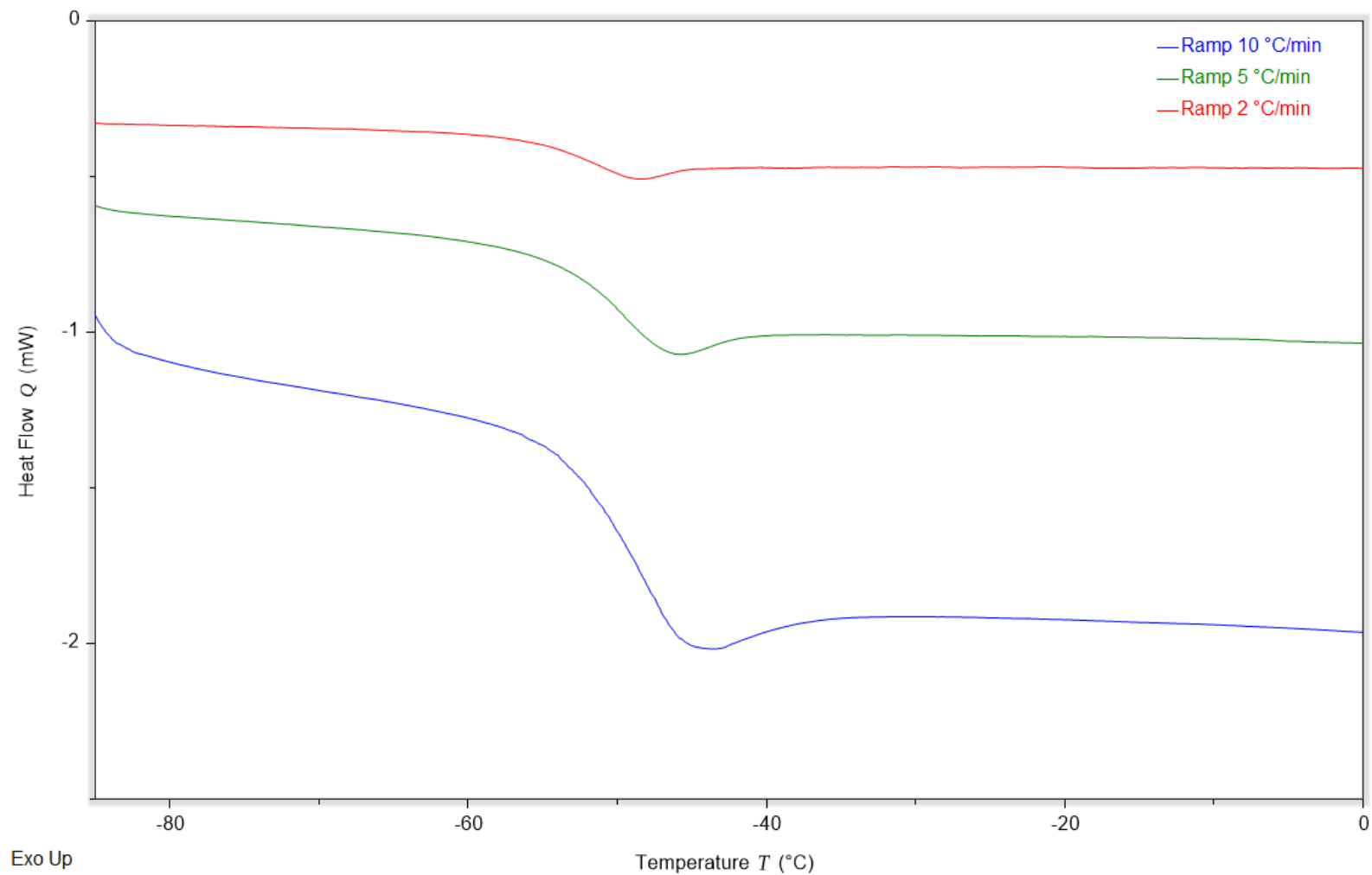


Figure S11. DSC thermograph of compound 2.

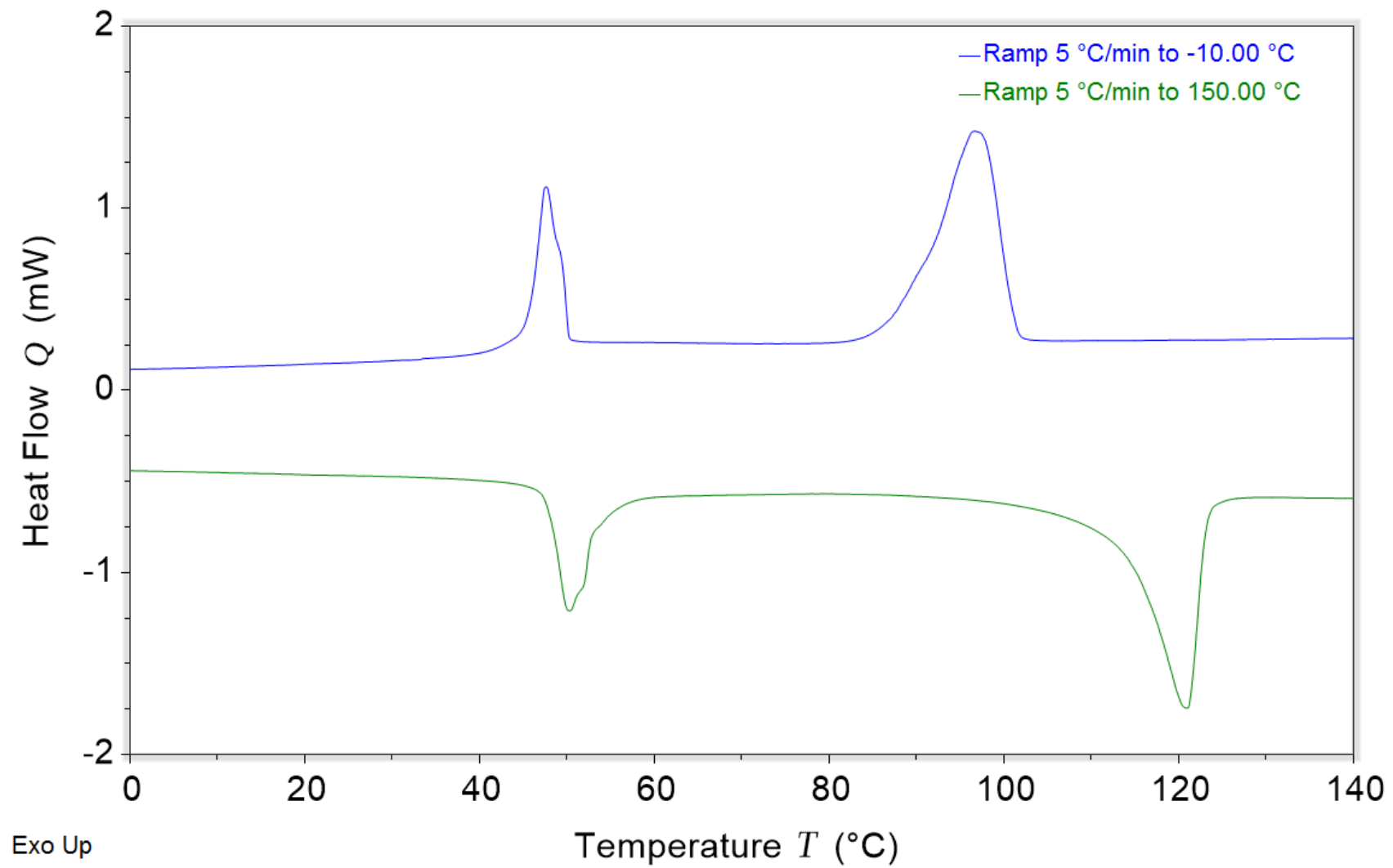


Figure S12. DSC thermograph of compound 3.

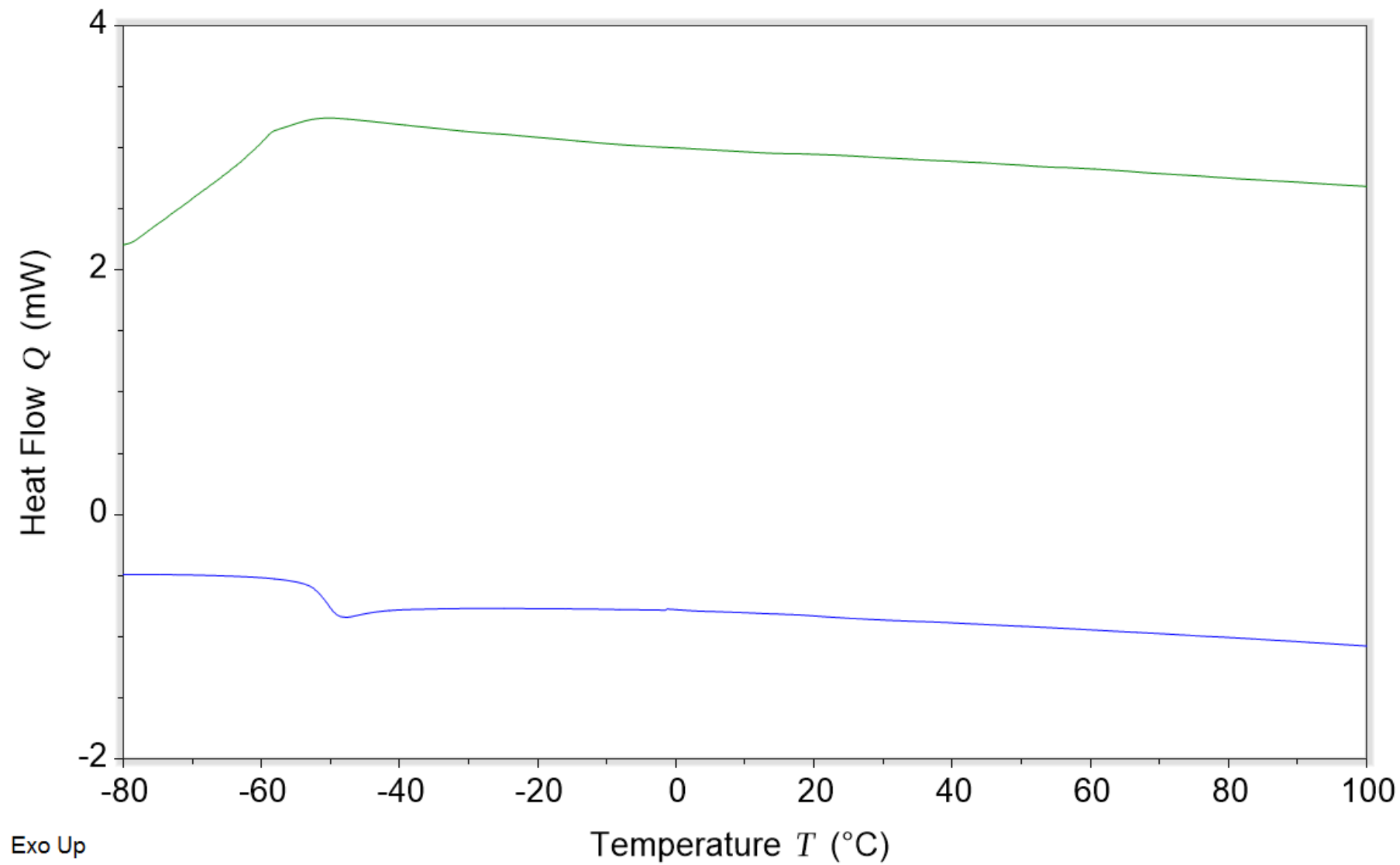


Figure S13. FTIR spectrum of compound 1.

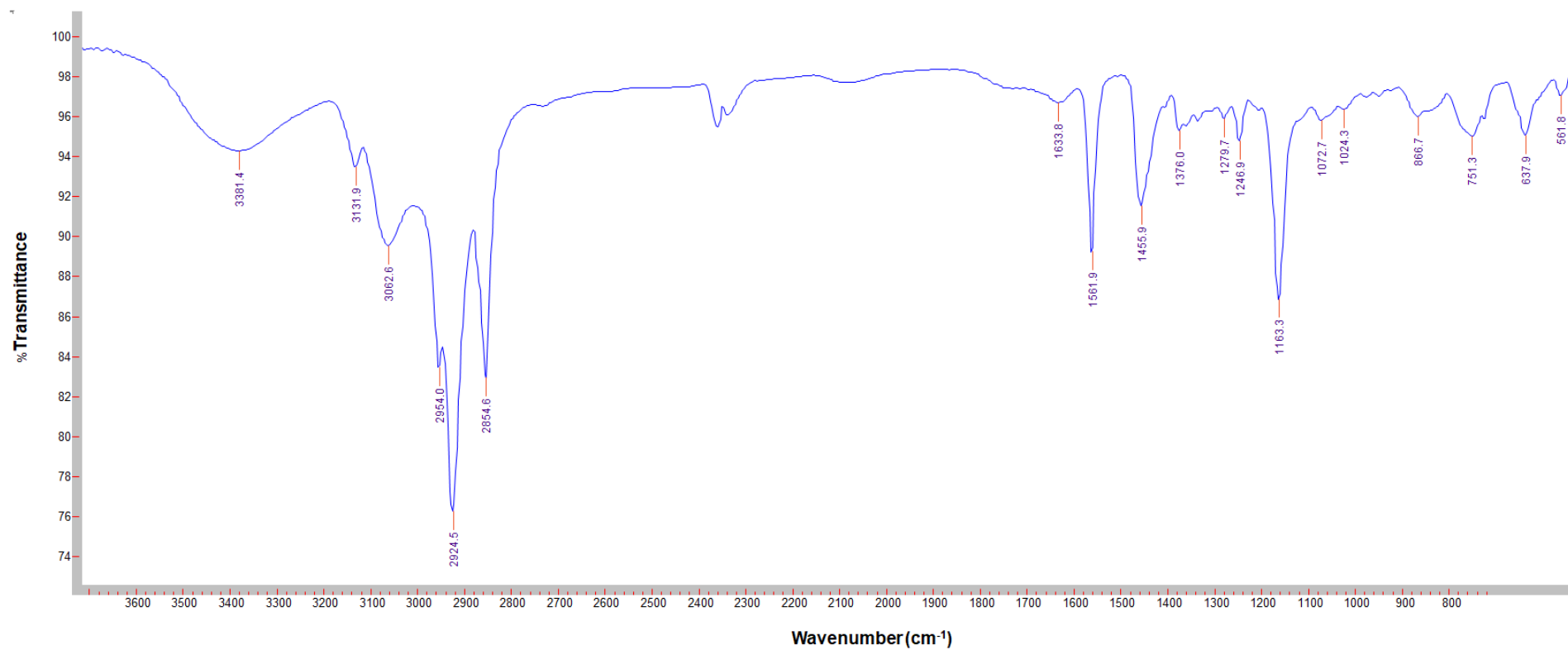


Figure S14. FTIR spectrum of compound 2.

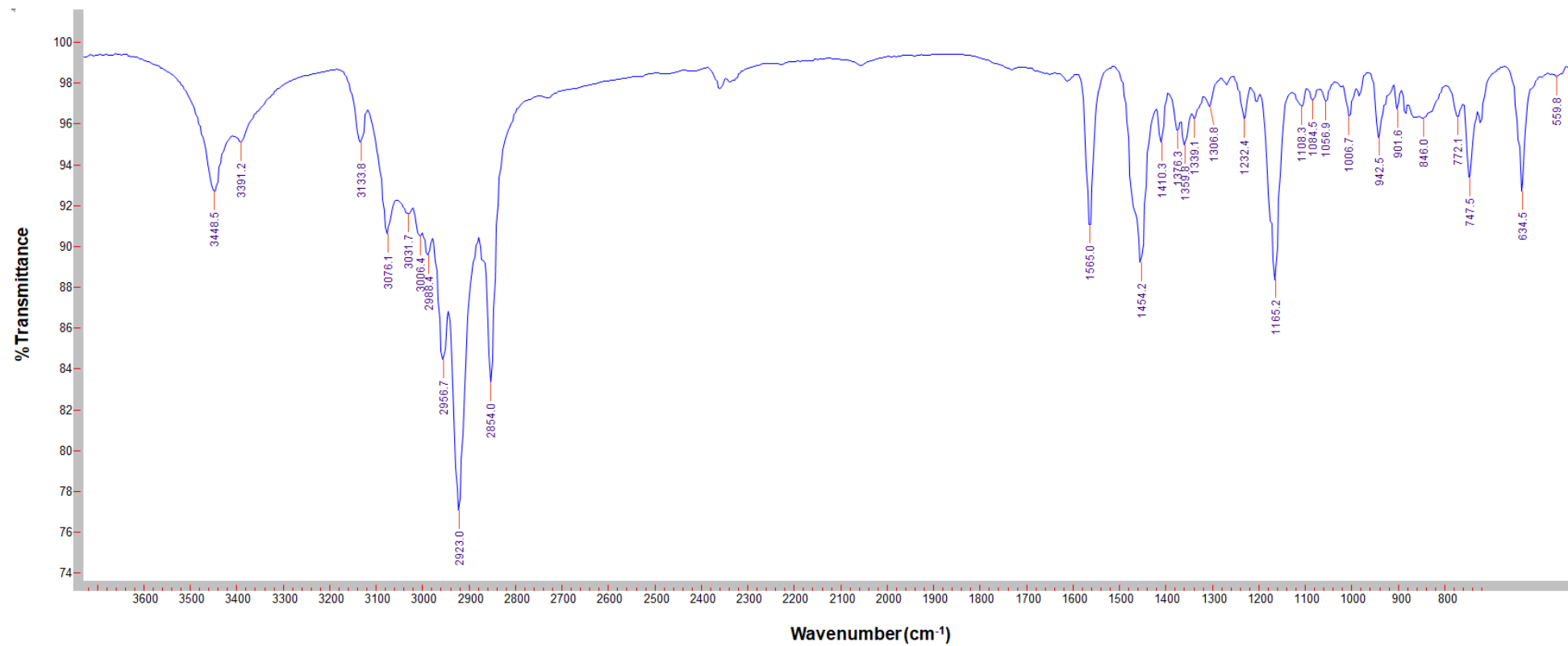


Figure S15. FTIR spectrum of compound 3.

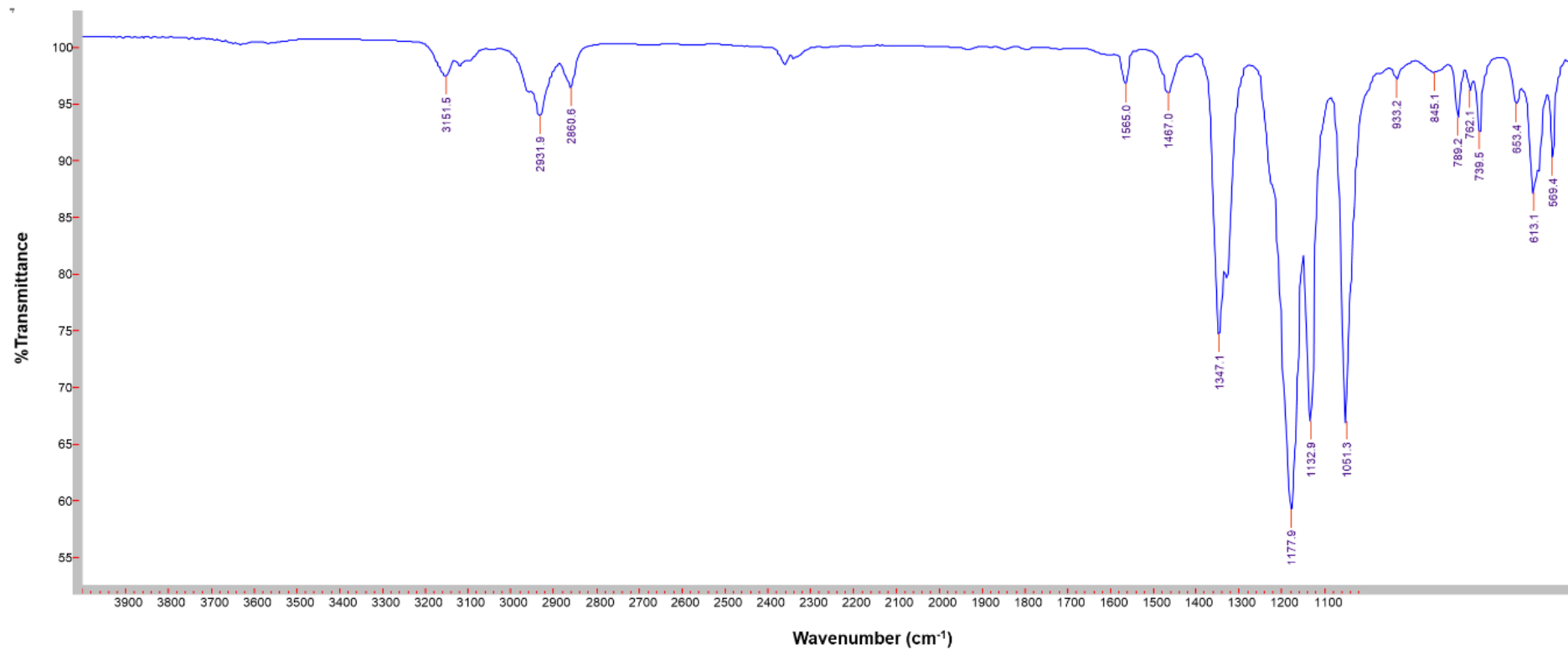


Figure S16. Flow curves of $C_3Br(C_8Im)/Br$ (**1**) and $C_3(C_8Im)(C_1Pyrr)/2 Tf_2N$ (**3**) at 25 °C.

