

Supplementary Materials: Synthesis of 5,10-bis(Trifluoromethyl) Substituted β -Octamethylporphyrins and Central-Metal-Dependent Solvolysis of their *meso*-trifluoromethyl Groups

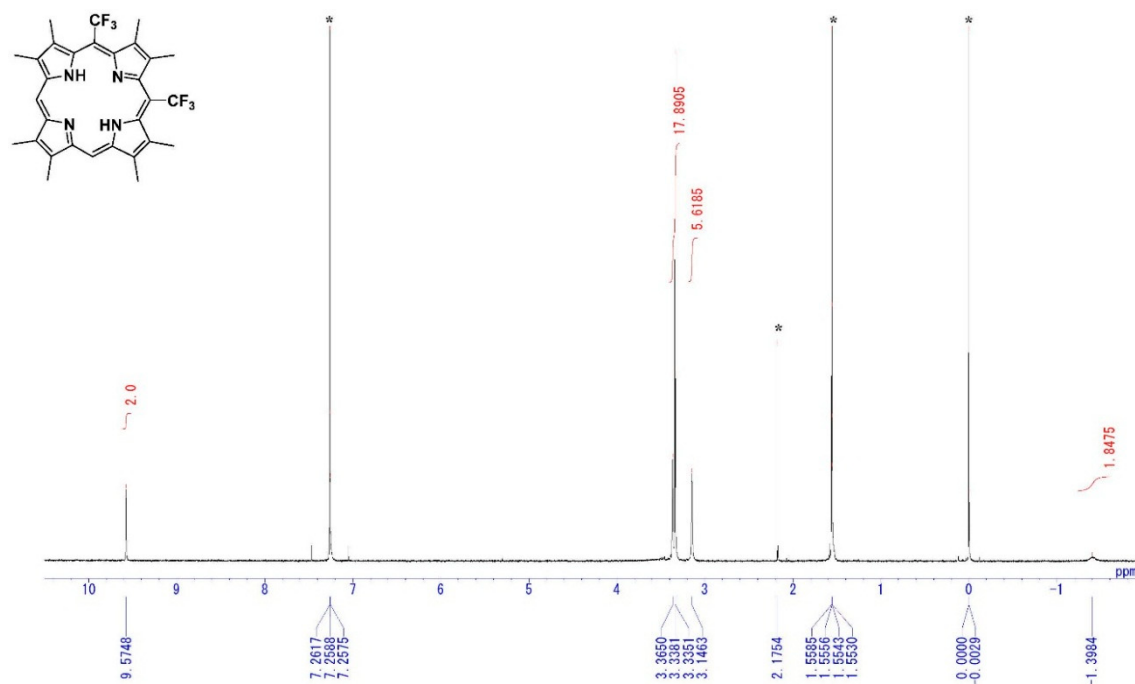
Masaaki Suzuki ^{1,2,*}, Saburo Neya ² and Yutaka Nishigaichi ¹

Figure S1. ^1H NMR spectrum of **9** in CDCl_3 . *: solvent and impurity.

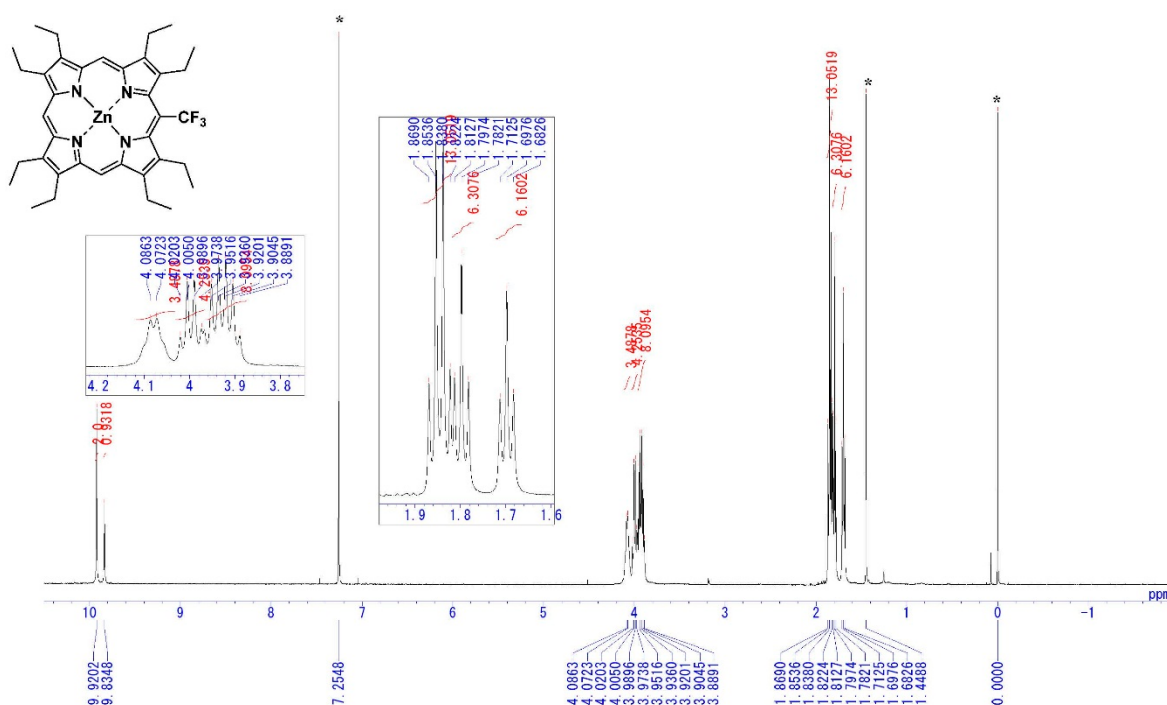


Figure S2. ^1H NMR spectrum of **7Zn** in CDCl_3 . *: solvent and impurity.

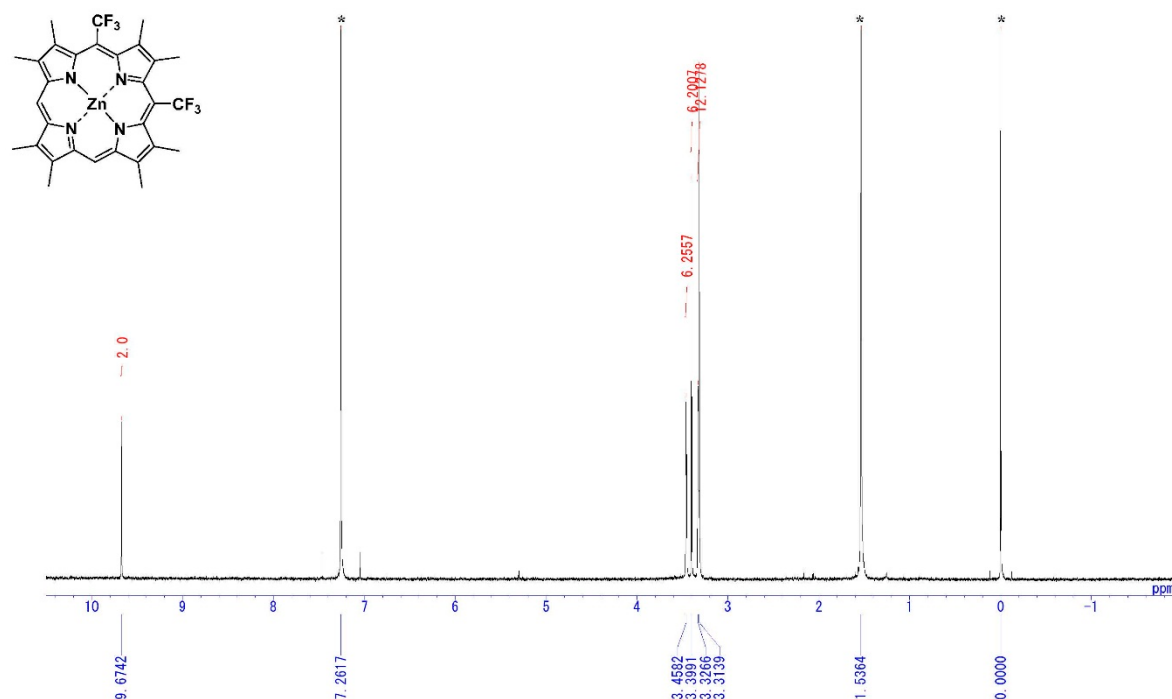


Figure S3. ^1H NMR spectrum of **9Zn** in CDCl_3 . *: solvent and impurity.

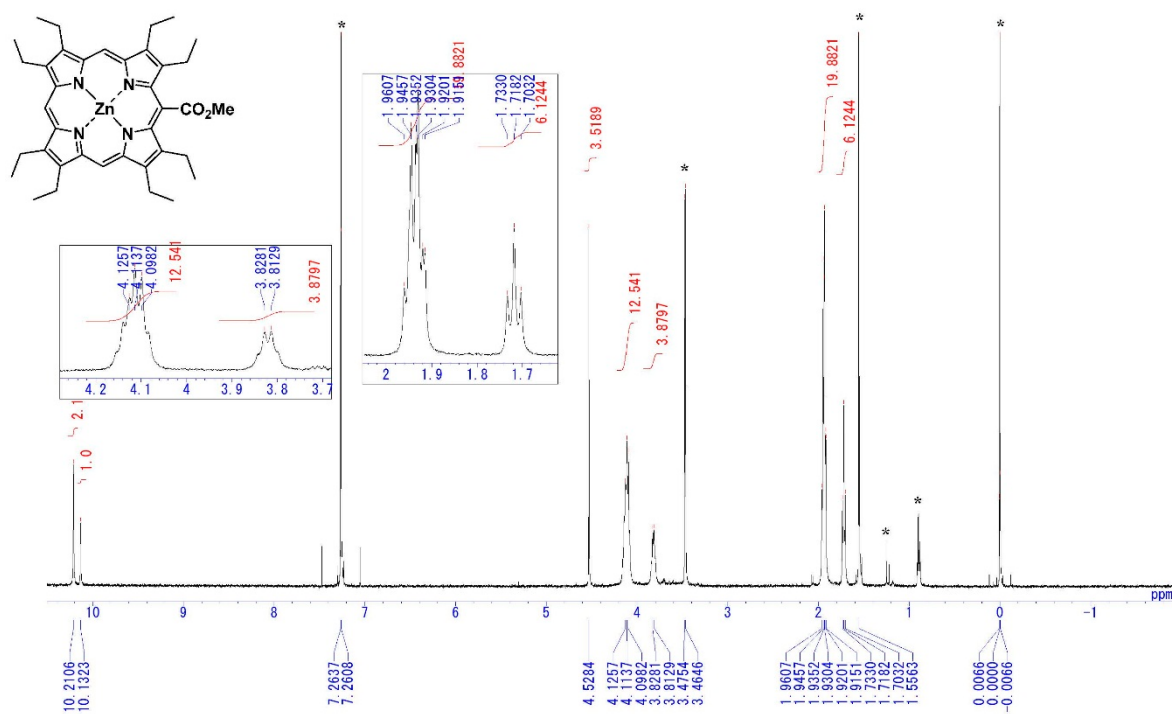


Figure S4. ^1H NMR spectrum of **11Zn** in CDCl_3 . *: solvent and impurity.

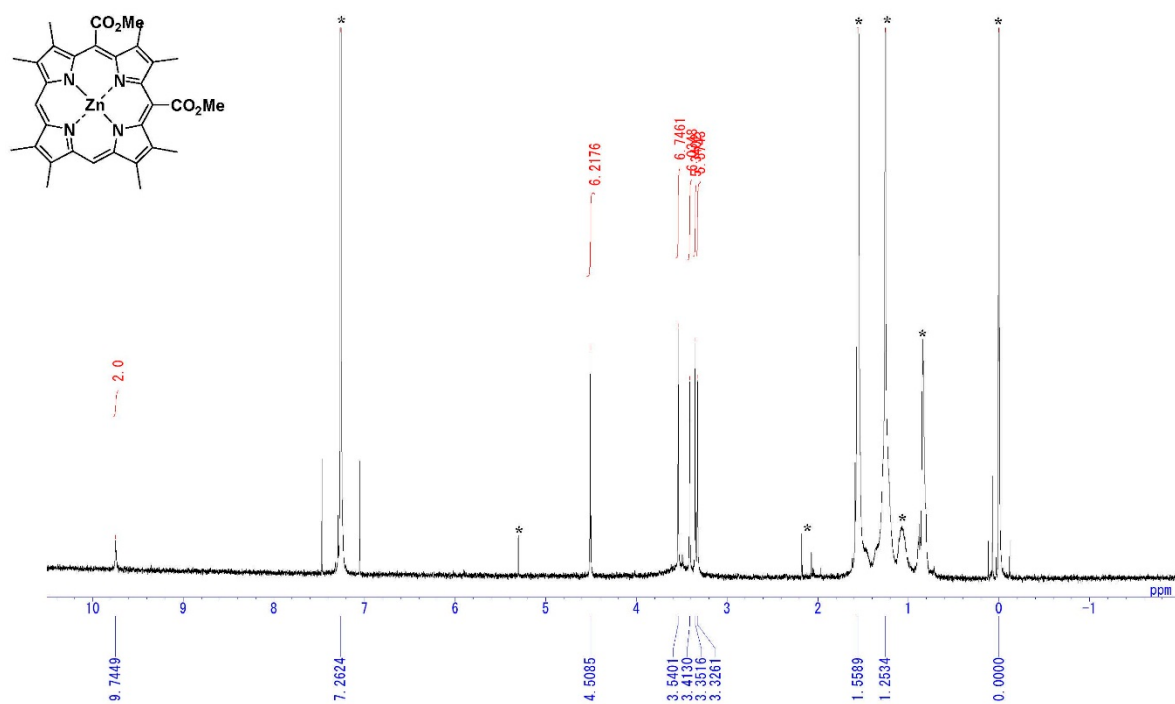


Figure S5. ^1H NMR spectrum of **12Zn** in CDCl_3 . *: solvent and impurity.

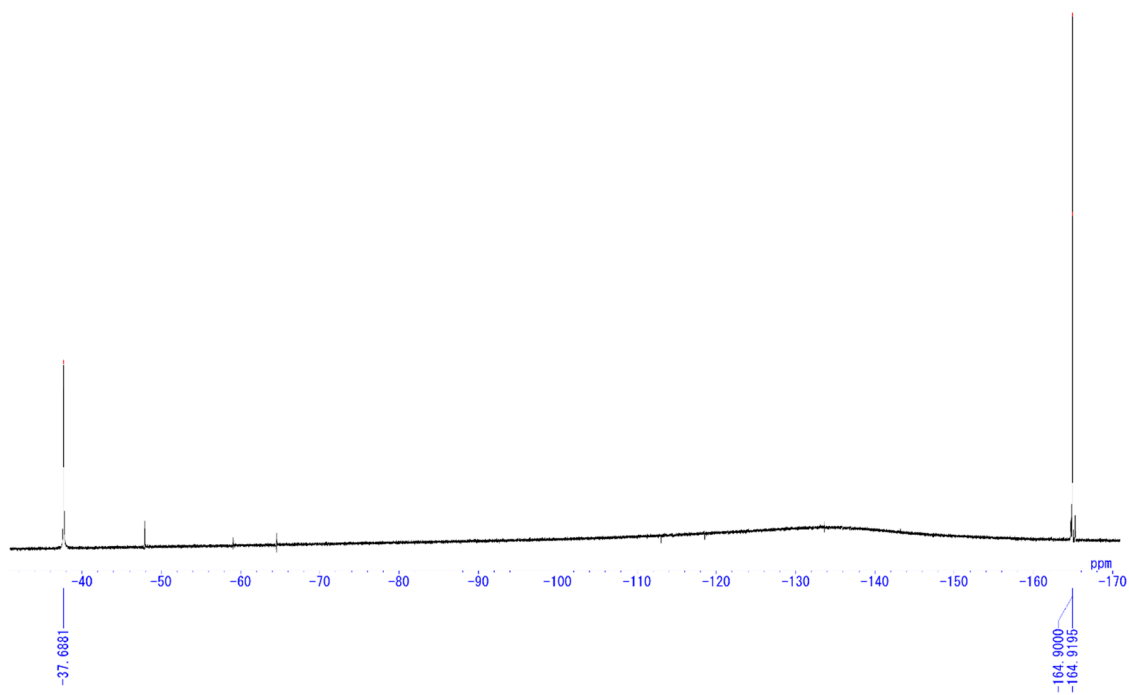


Figure S6. ^{19}F NMR spectrum of **9** in CDCl_3 .

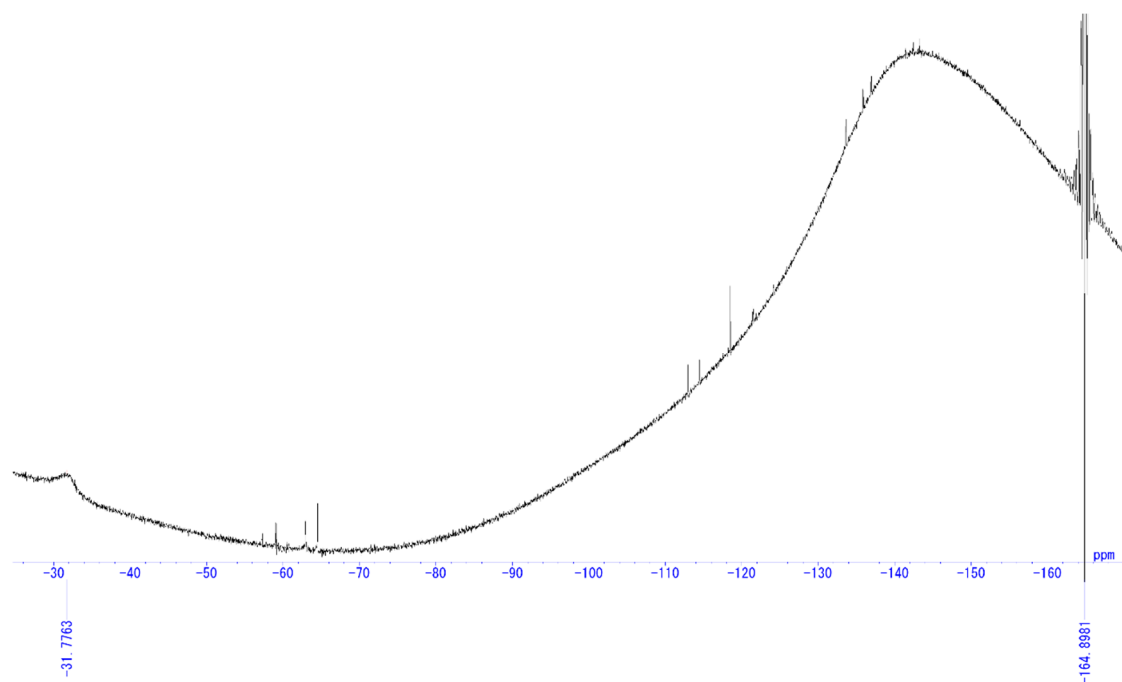


Figure S7. ^{19}F NMR spectrum of **7Zn** in CDCl_3 .

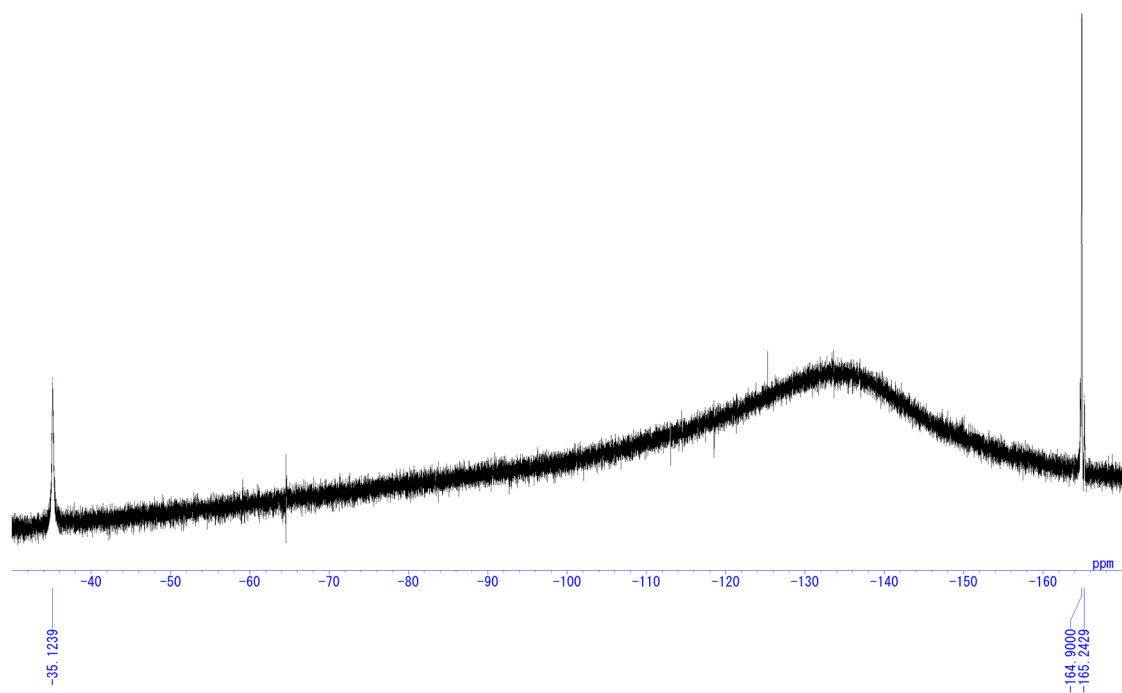


Figure S8. ^{19}F NMR spectrum of **9Zn** in CDCl_3 .

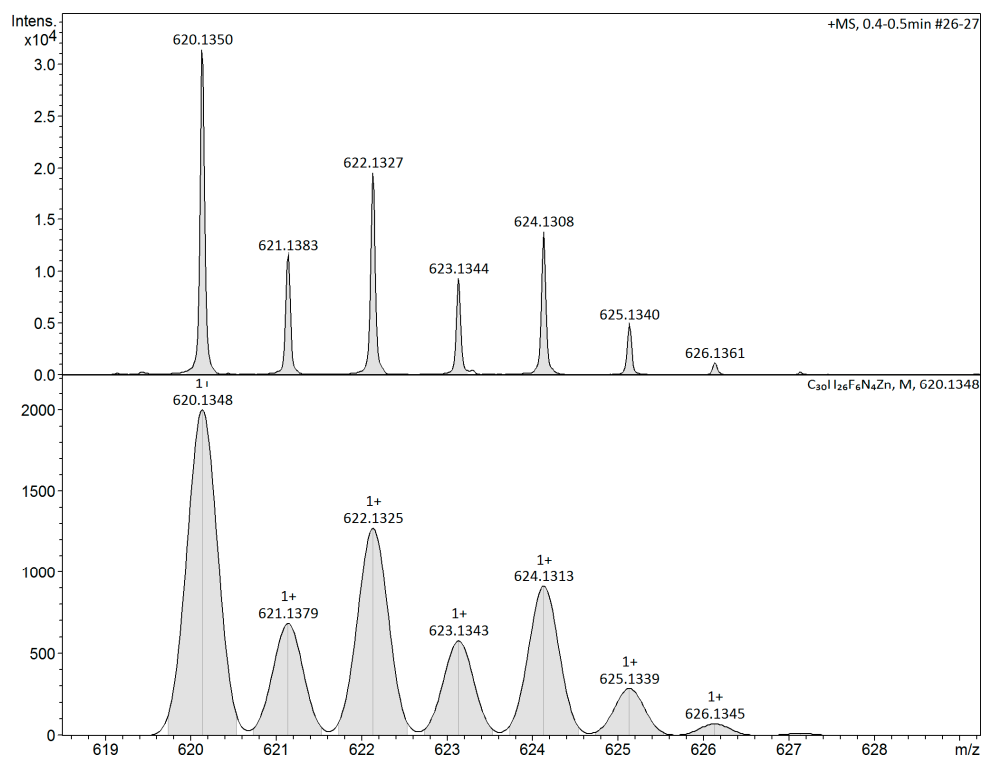


Figure S9. HR-ESI mass spectrum of 9. Upper: found, lower: calcd.

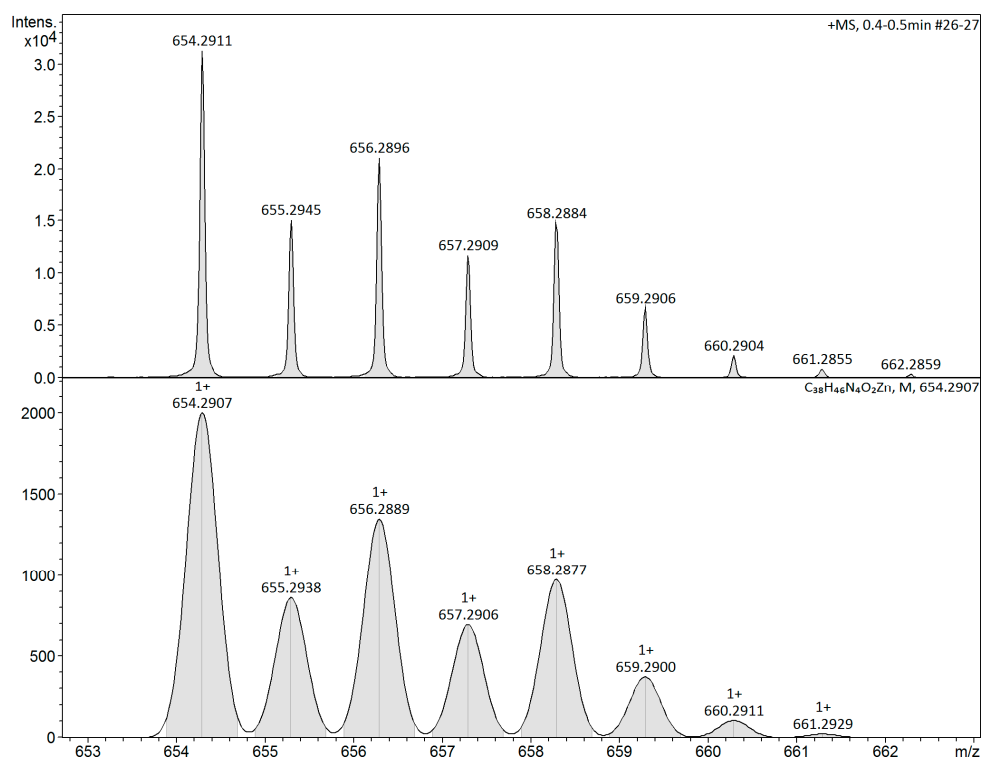


Figure S10. HR-ESI mass spectrum of 7Zn. Upper: found, lower: calcd.

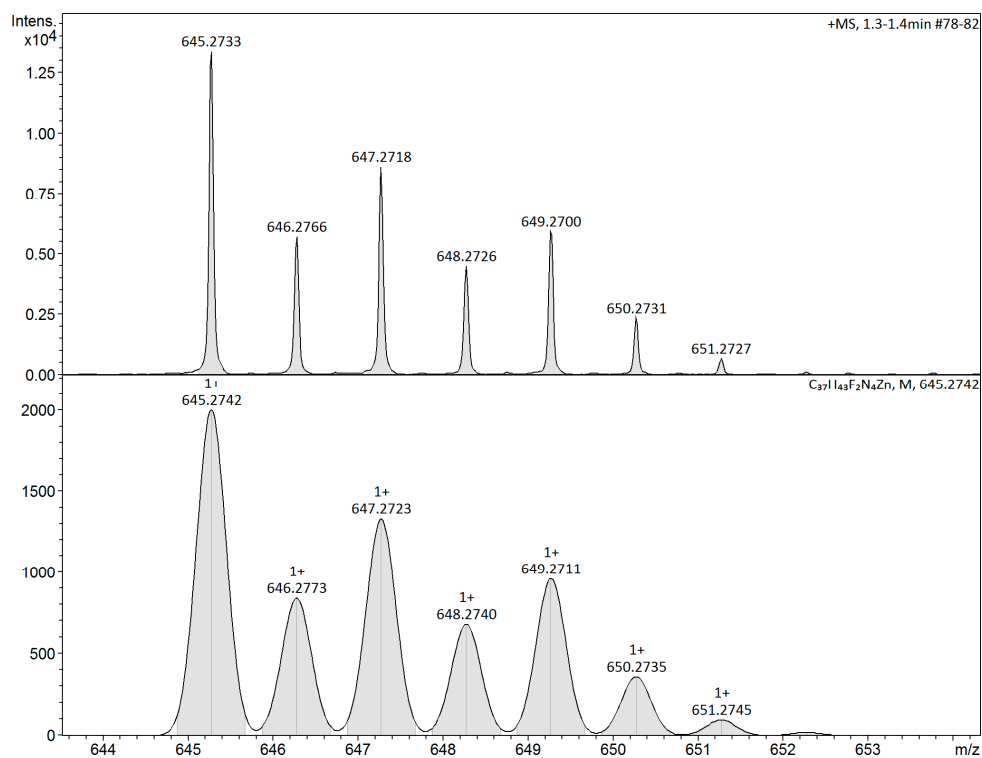


Figure S11. HR-ESI mass spectrum of 9Zn. Upper: found, lower: calcd.

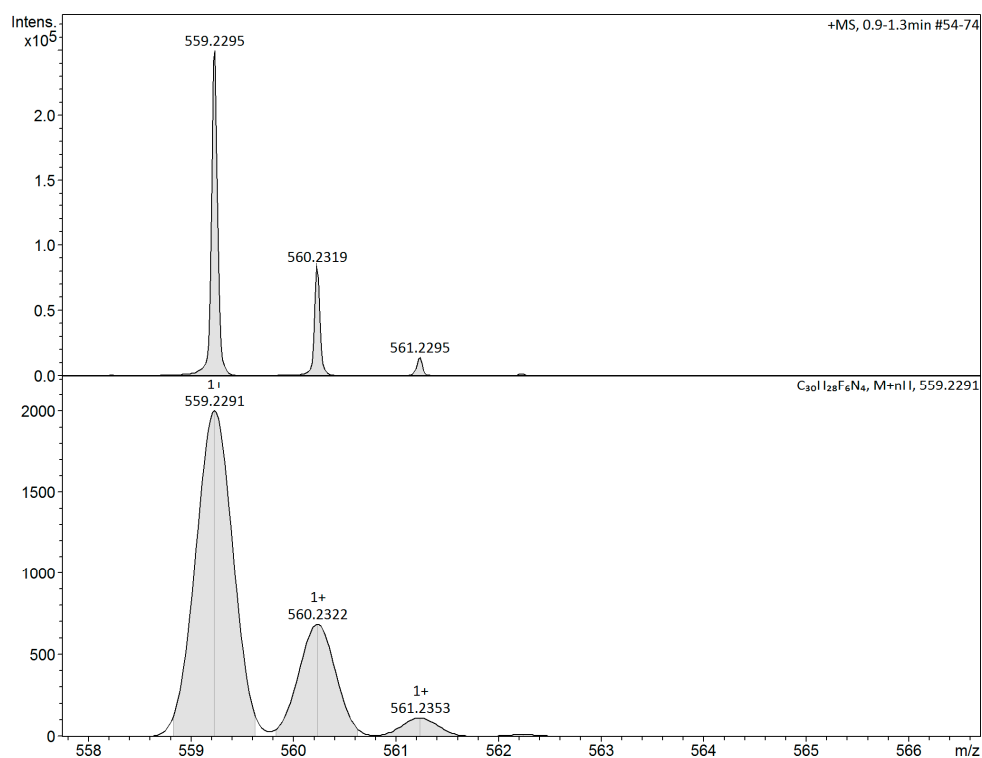


Figure S12. HR-ESI mass spectrum of 11Zn. Upper: found, lower: calcd.

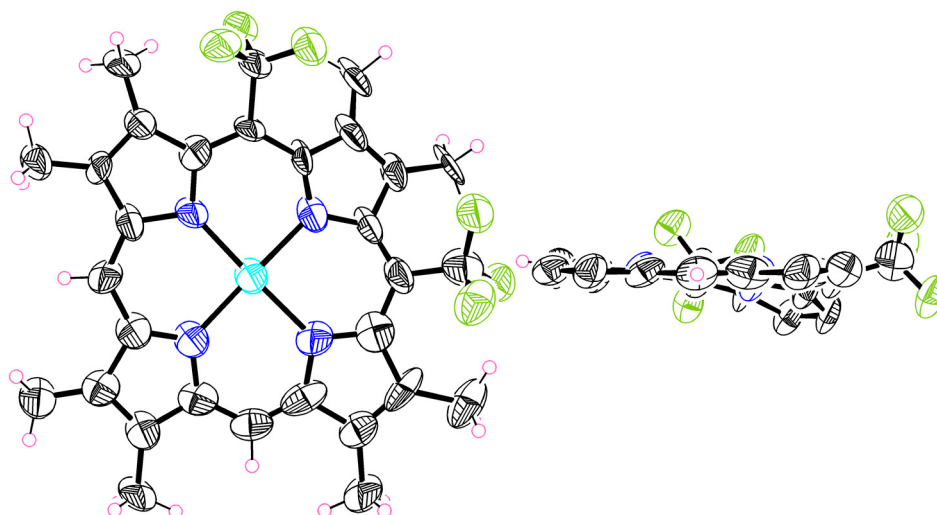


Figure S13. Preliminary crystal structure of **9Zn**. Left: top view; right: side view. The β -methyl substituents are omitted for clarity in the side view. Thermal ellipsoids are set at the 50% probability level.

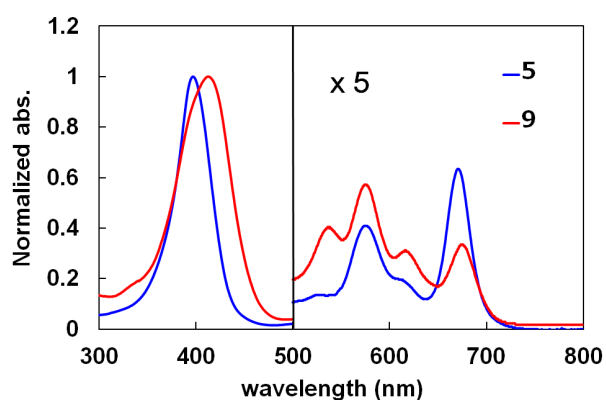
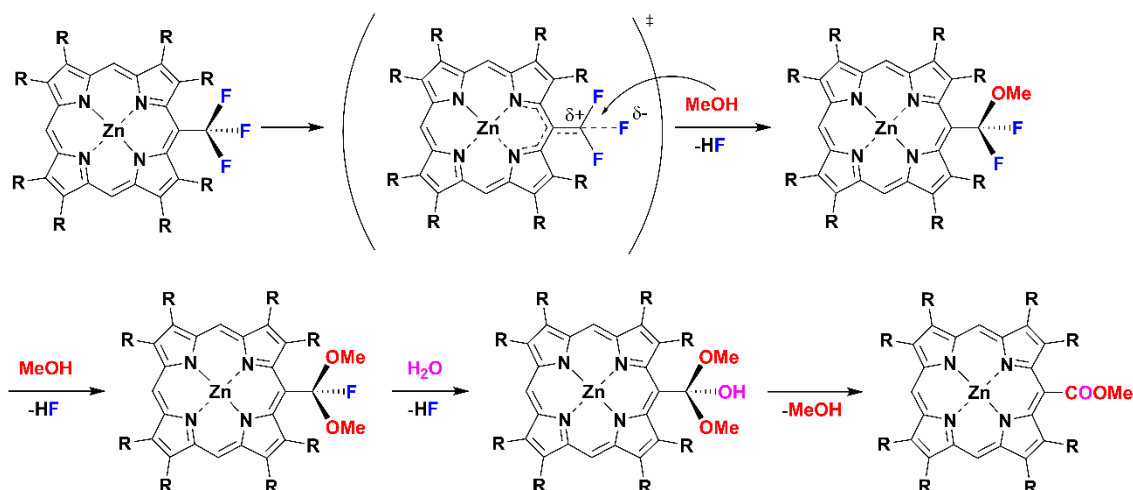


Figure S14. Comparison between UV-vis spectrum of **5** and that of **9** in CH_2Cl_2 .



Scheme S1. A proposed mechanism of solvolysis.