Supporting Information *for*

Stereoselective self-aggregation of synthetic zinc 3^1-epimeric bacteriochlorophyll-*d* analogs possessing a methylene group at the 13^2-position as models of green photosynthetic bacterial chlorosomes

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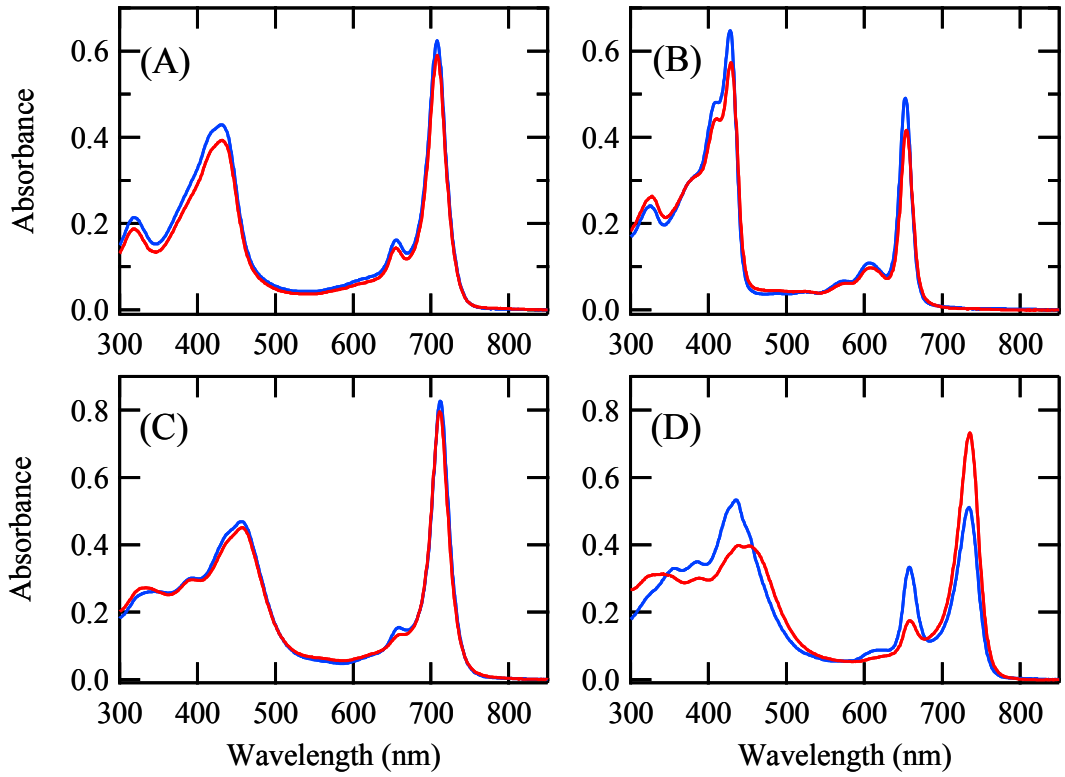

Fig. S1 Visible absorption spectral changes of **1*R*** (A), **1*S*** (B), **2*R*** (C), and **2*S*** (D) in an aqueous 0.025%(wt/v) Triton X-100 micelle solution just after preparation (blue) and after standing for 1 day (red).

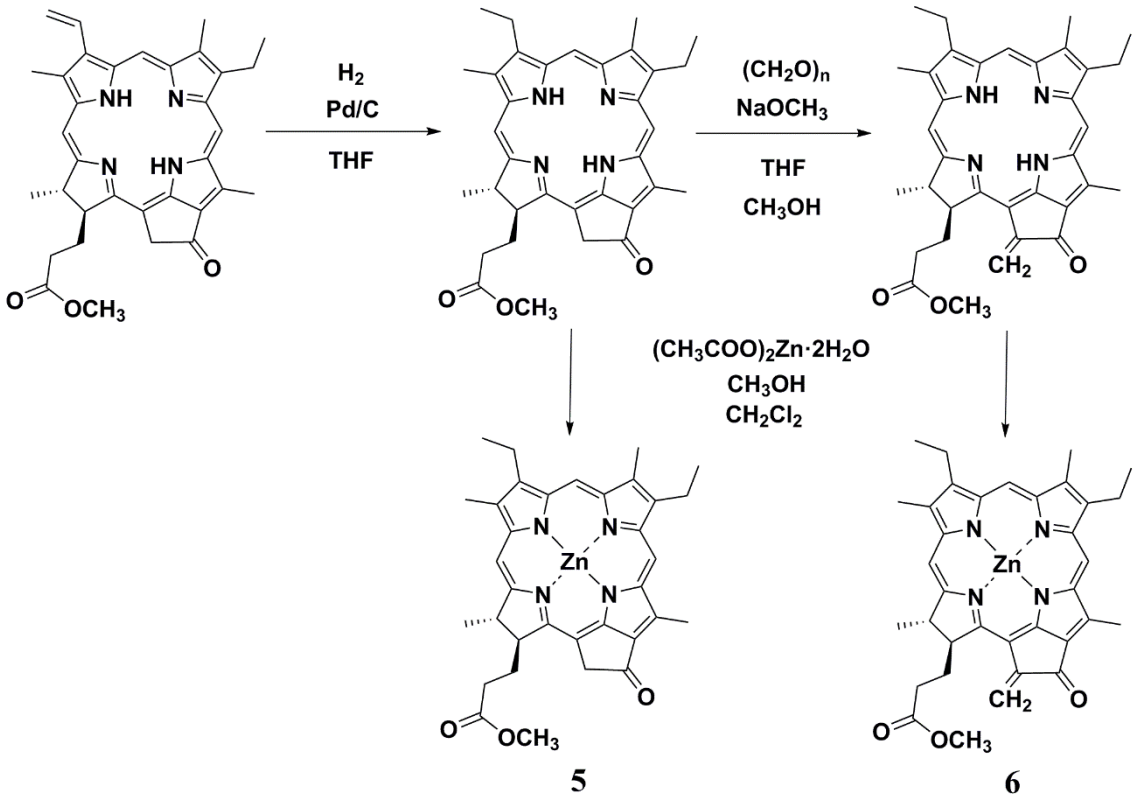

Fig. S2 Synthesis of zinc methyl mesopyropheophorbide-*a* (**5**) and its 13^2-methylenated derivative **6**.

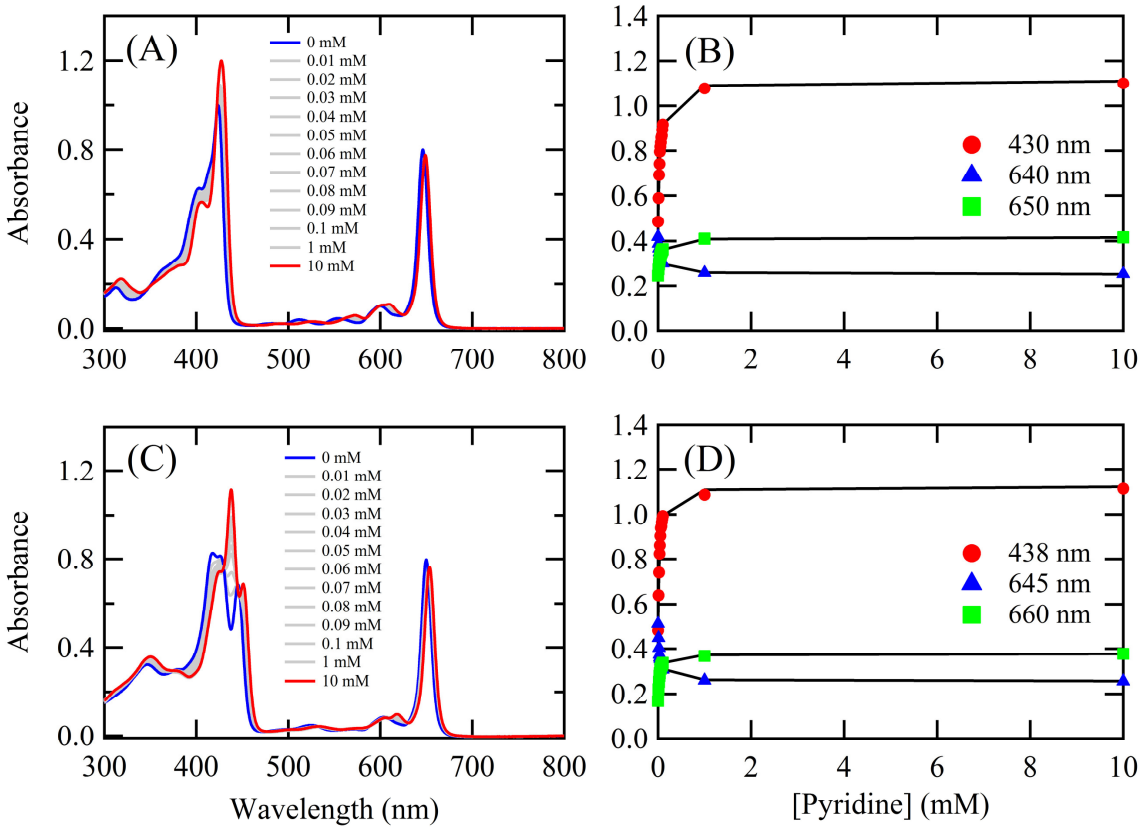

Fig. S3 Visible absorption spectral changes of **5** (A) and **6** (C) in dry benzene (10 μM) by addition of pyridine and their curve fitting analyses (B) and (D).

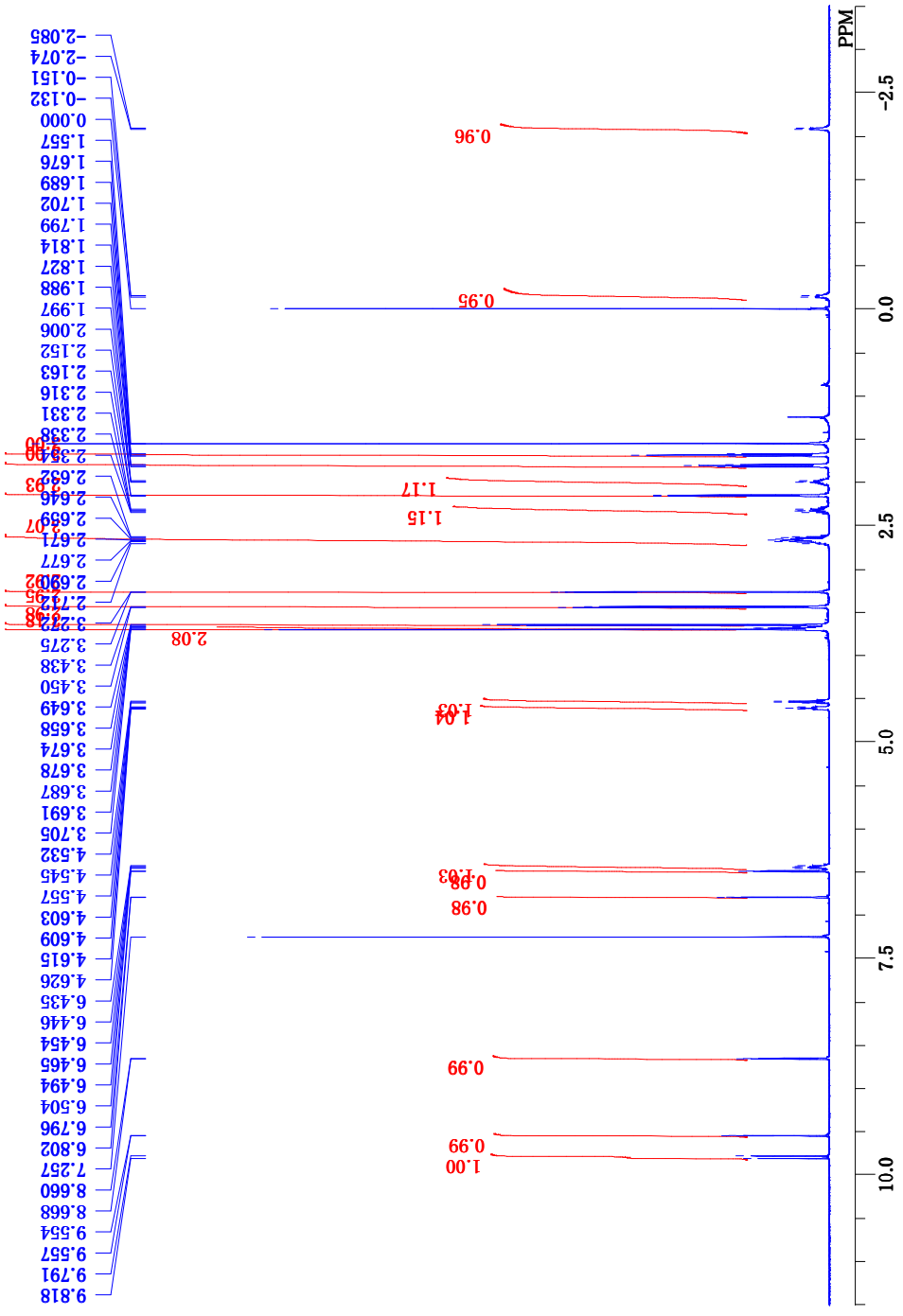

Fig. S4 ^{1}H-NMR spectrum of methyl 13^{2}-methylene-bacteriopheophorbide-*d* (**4**, 3^{1}*R*:3^{1}*S* = 1:1) in $CDCl_3$.

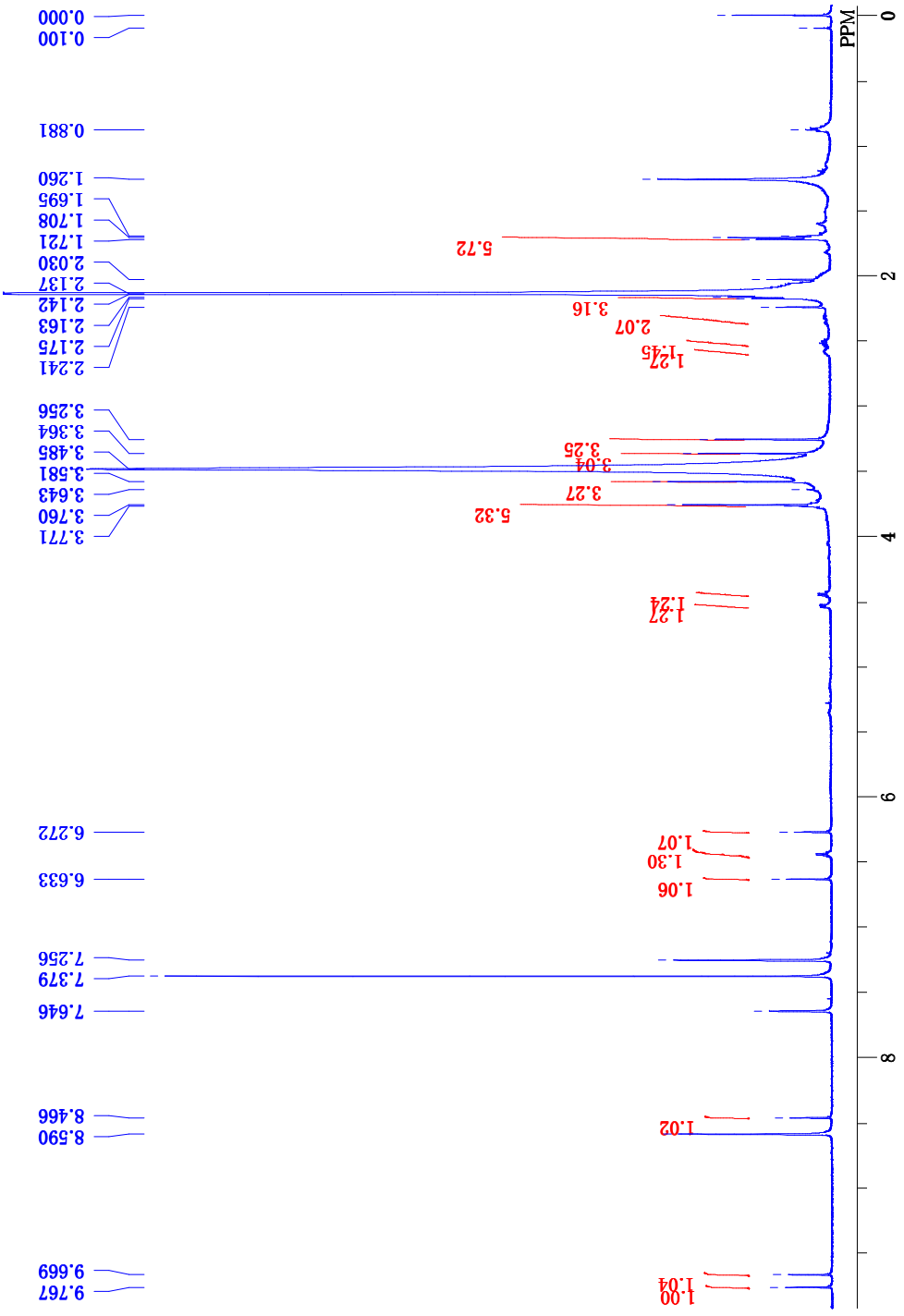

Fig. S5 ^{1}H-NMR spectrum of zinc methyl (3^{1}*R*)-13^{2}-methylene-bacteriopheophorbide-*d* (**2*R***) in $CDCl_3$–5% pyridine-d_5.

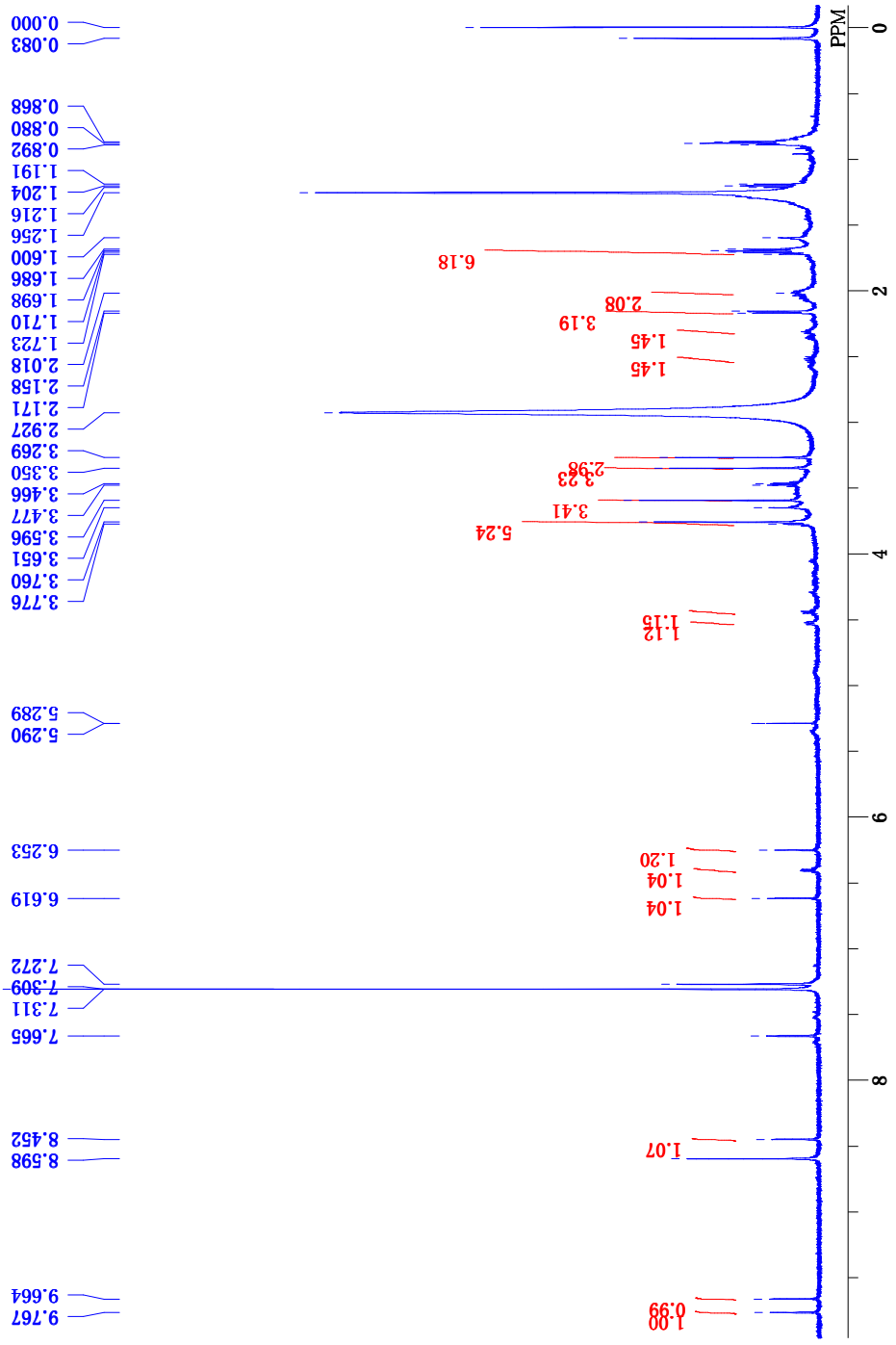

Fig. S6 ^{1}H-NMR spectrum of zinc methyl (3^{1}*S*)-13^{2}-methylene-bacteriopheophorbide-*d* (**2*S***) in $CDCl_3$–5% pyridine-d_5.

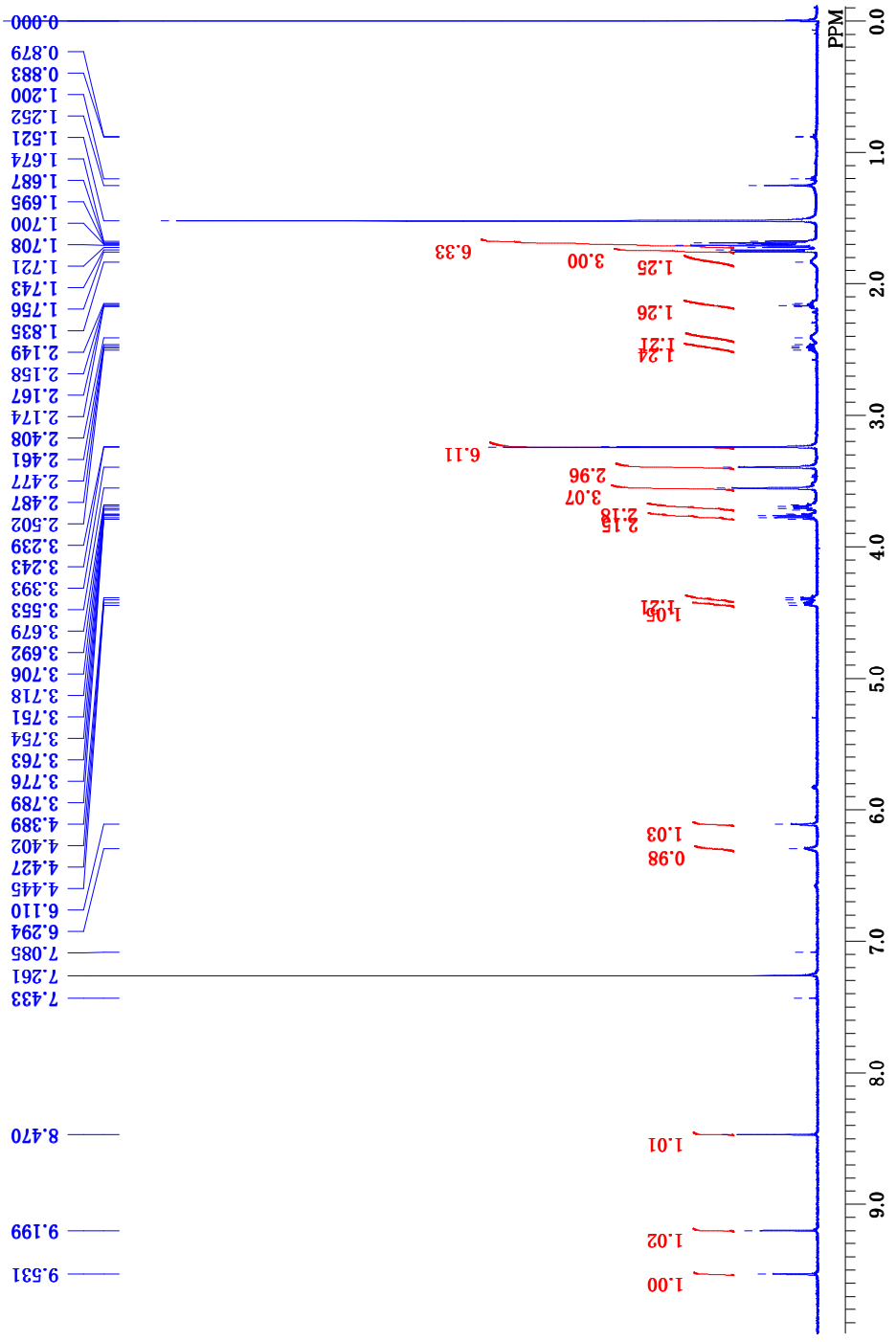

Fig. S7 ^{1}H-NMR spectrum of zinc methyl 13^{2}-methylene-mesopyropheophorbide-*a* (**6**) in $CDCl_3$.