

Supporting Information

Org. Commun. 18:2 (2025) 100-108

Two-steps synthesis of hexasubstituted porphyrins at the β -pyrrolic positions

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[3,7,12-Trinitro-2,8,13-tris{(toluene-4-sulphonyl)methyl}-5,10,15,20-tetraphenylporphyrinato]copper(II) (3)

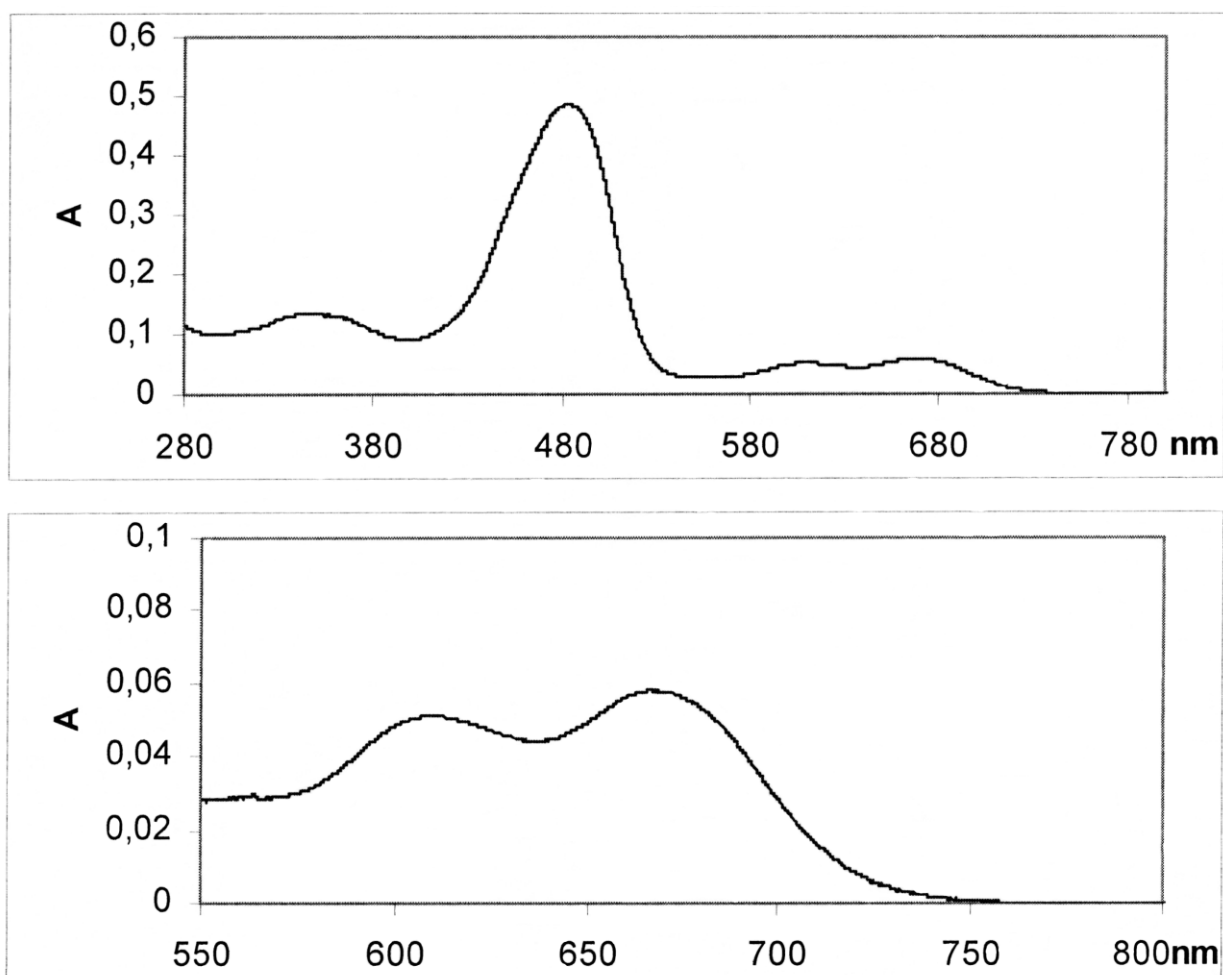
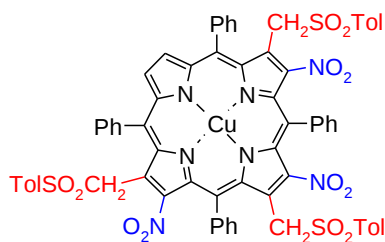


Figure S1: UV-vis spectra of product 3

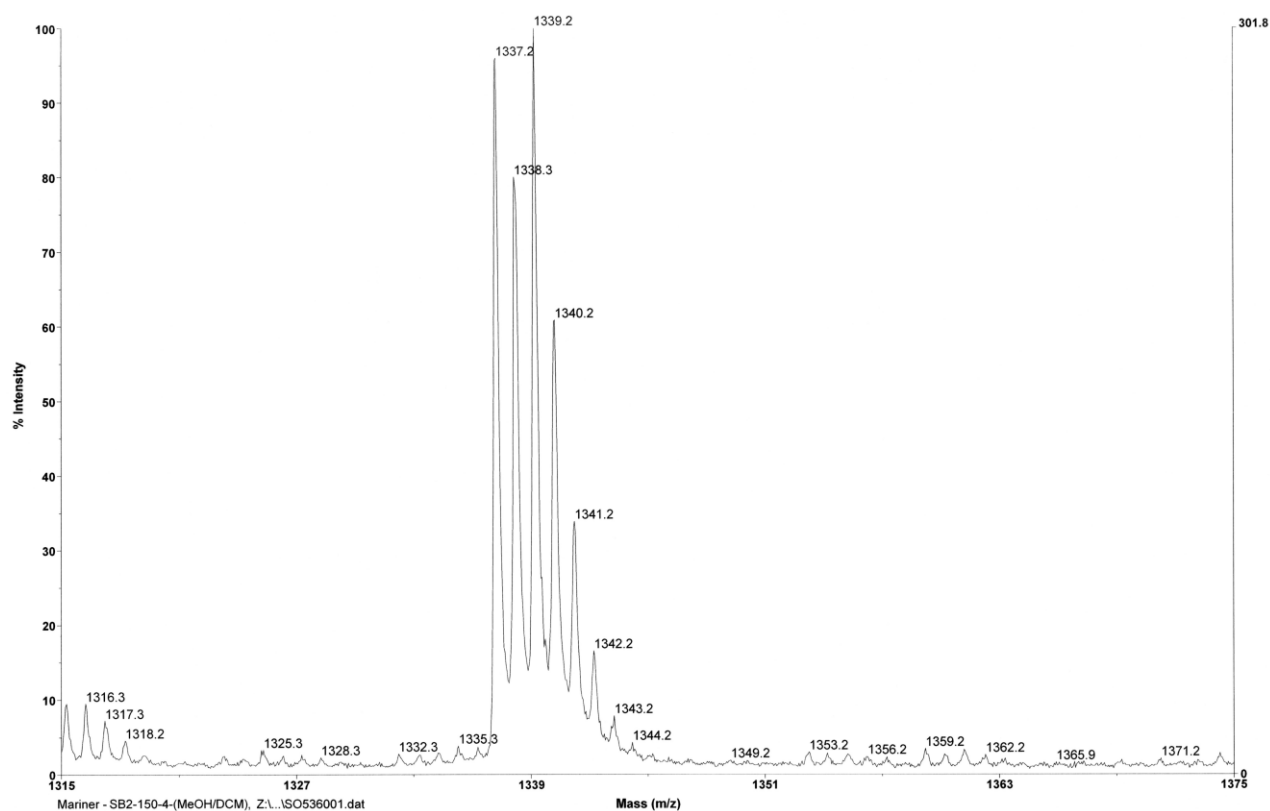


Figure S2: MS spectrum of product 3 ($[M+Na]^+$ ion; ESI technique)

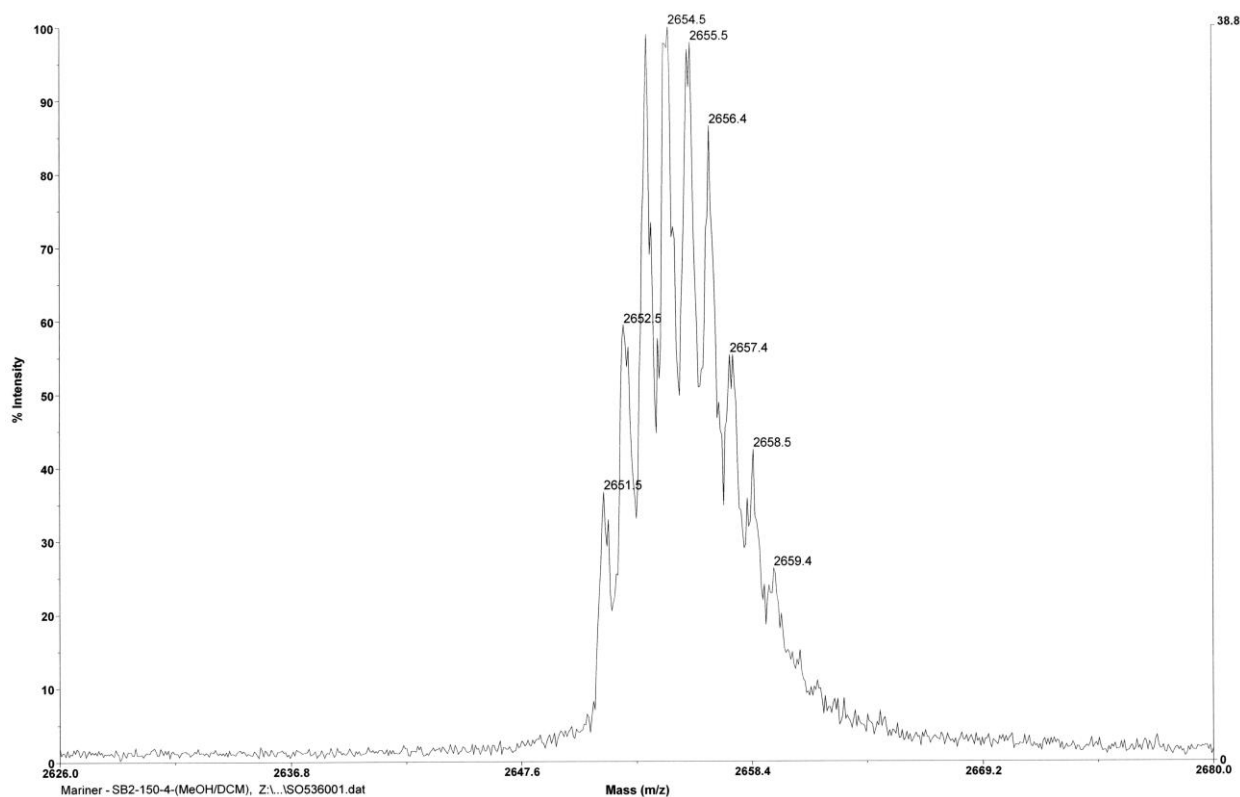


Figure S3: MS spectrum of product 3 ($[2M+Na]^+$ ion; ESI technique)

Pentasubstituted isomers (4-6): product $R_f=0.40$, product $R_f=0.35$, and product $R_f=0.28$, respectively

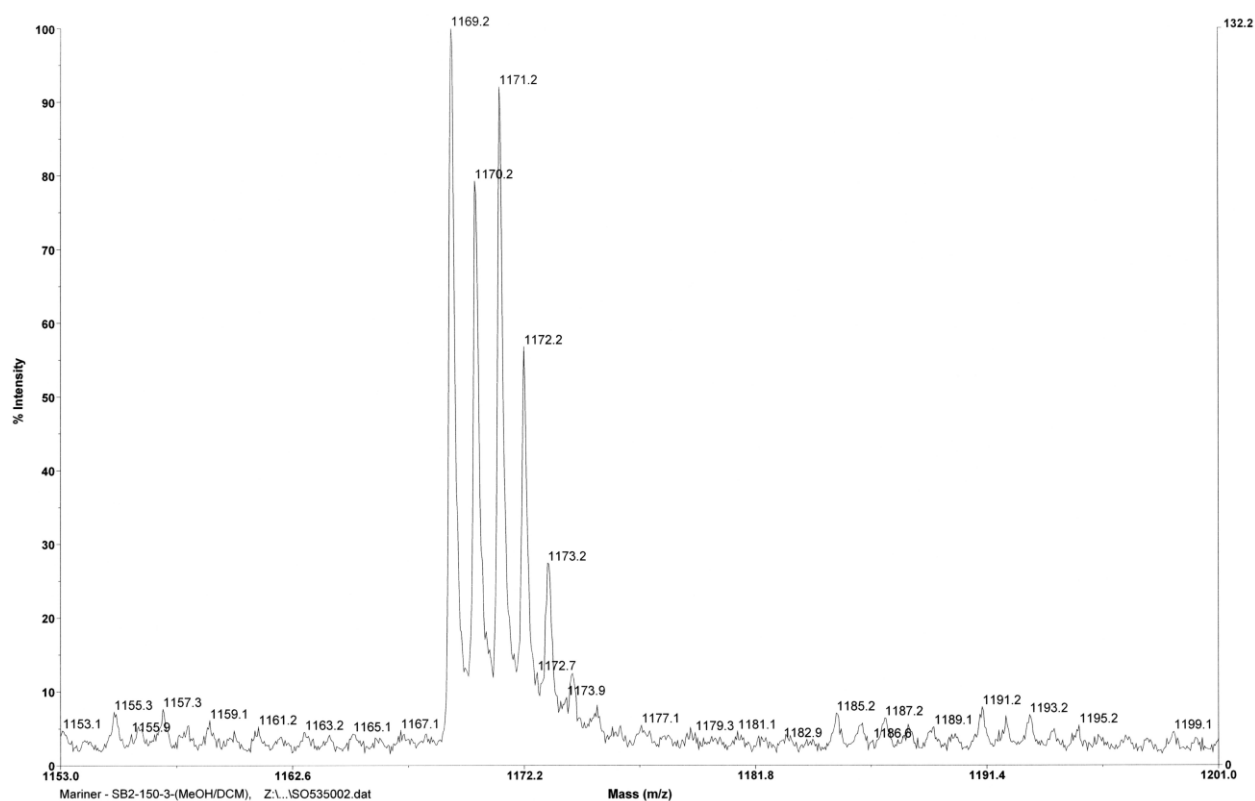
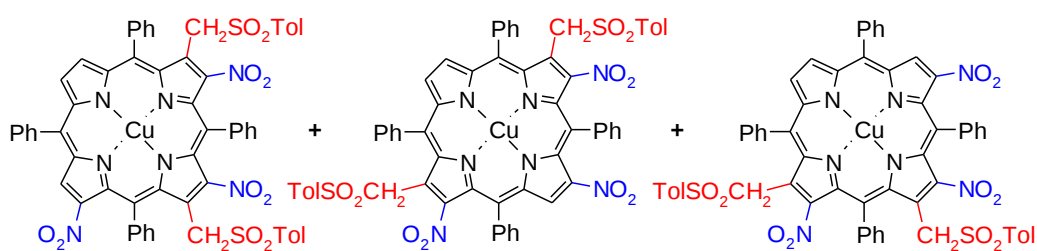


Figure S4: MS spectrum of mixture of isomers 4-6 ($[M+Na]^+$ ion; ESI technique, positive ions mode)

[3,7,12-Trinitro-2,8,13-tris((phenylsulphonyl)methyl)-5,10,15,20-tetraphenylporphyrinato]copper(II) (7)

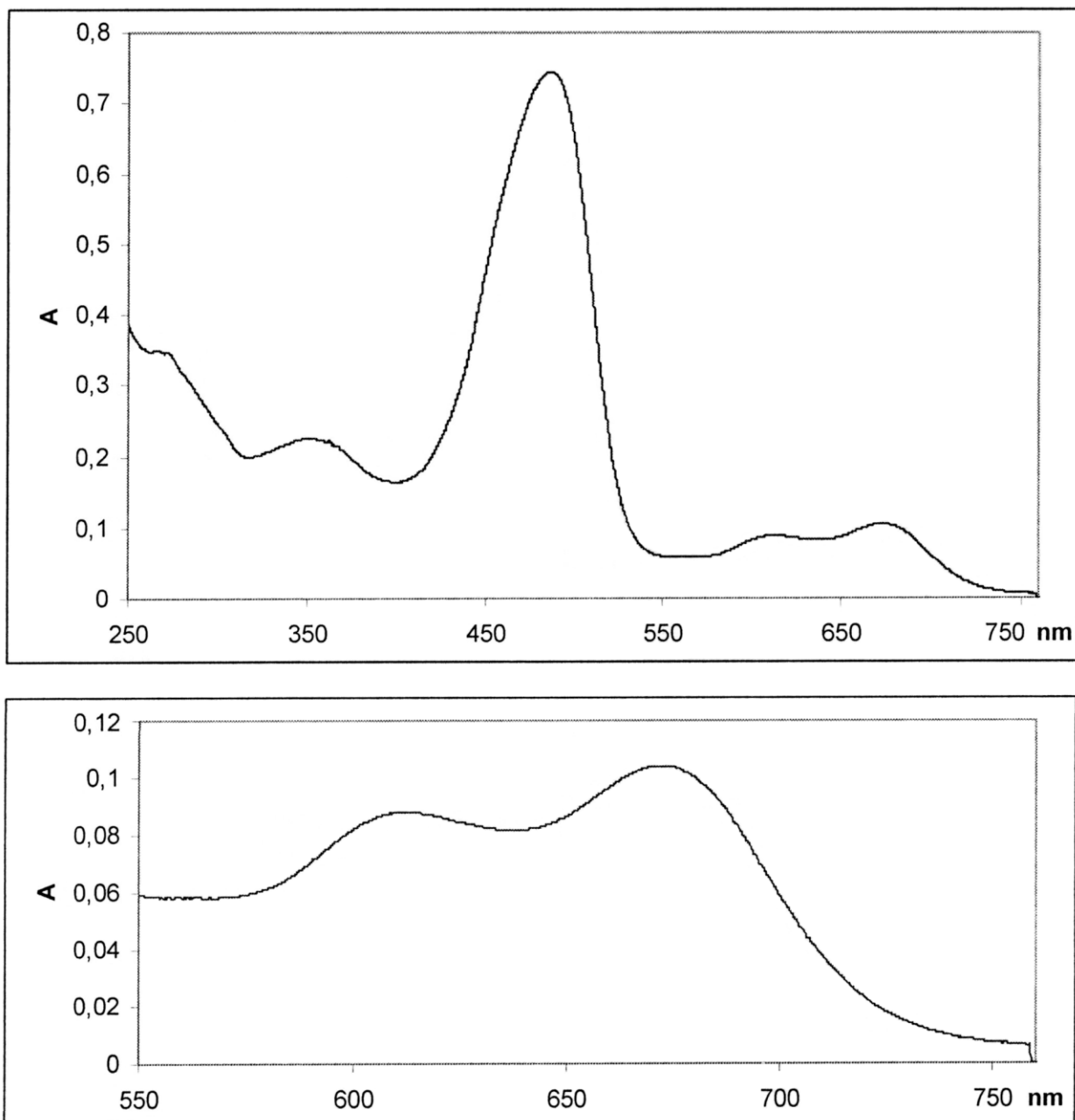
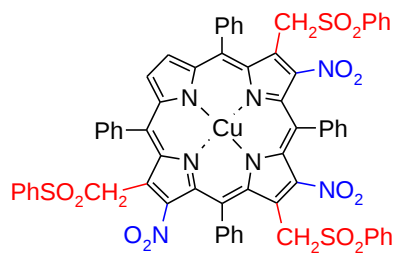


Figure S5: UV-vis spectra of product 7



Figure S6: MS spectrum of product 7 (FD technique)



Figure S7: MS spectrum of product 7 (molecular ion M^+ ; FD technique)

[3,7,12-Trinitro- β,β -bis{(phenylsulphonyl)methyl}-5,10,15,20-tetraphenylporphyrinato]copper(II) (8)

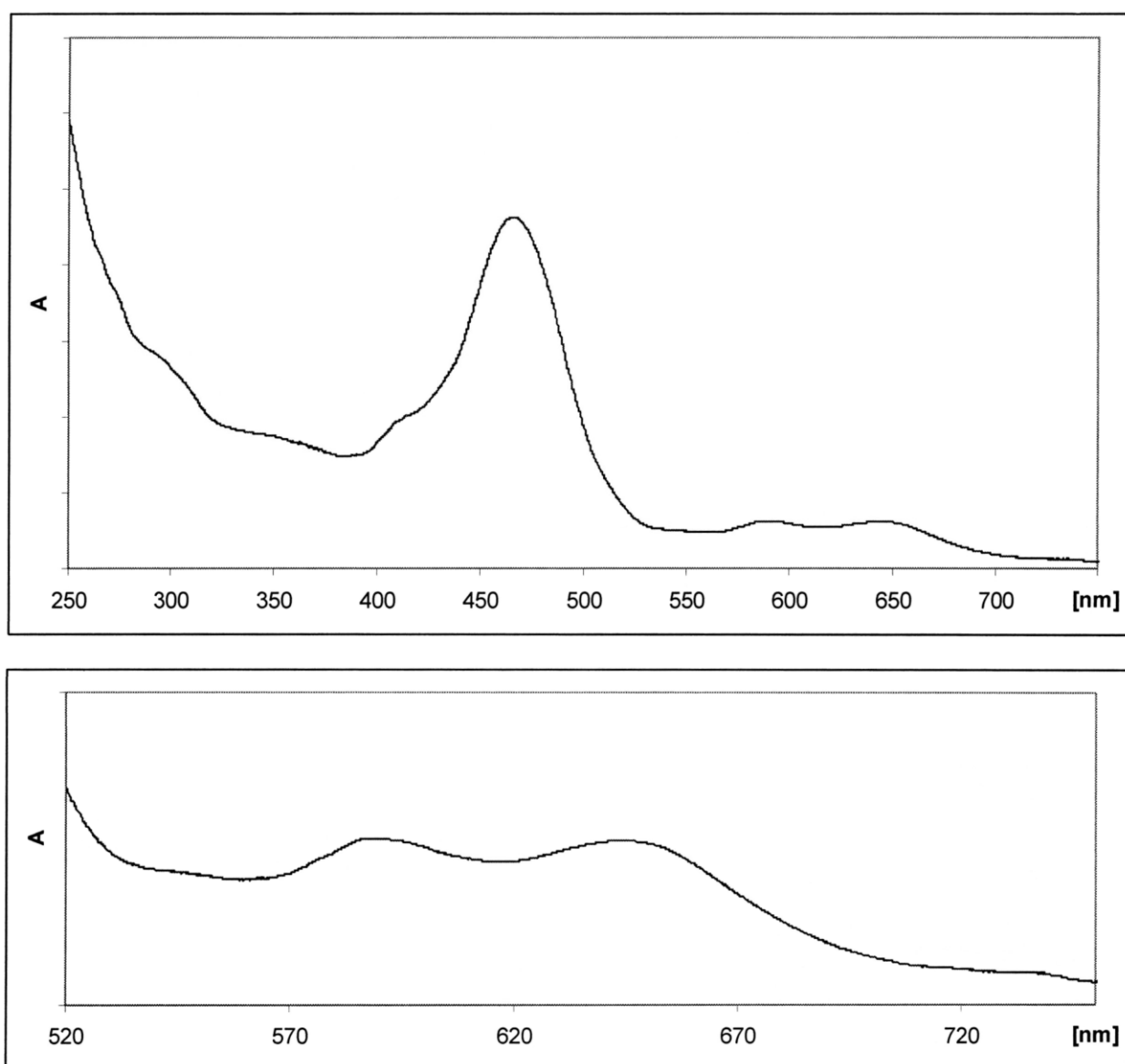
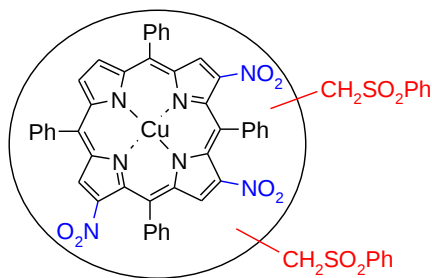


Figure S8: UV-vis spectrum of product **8**

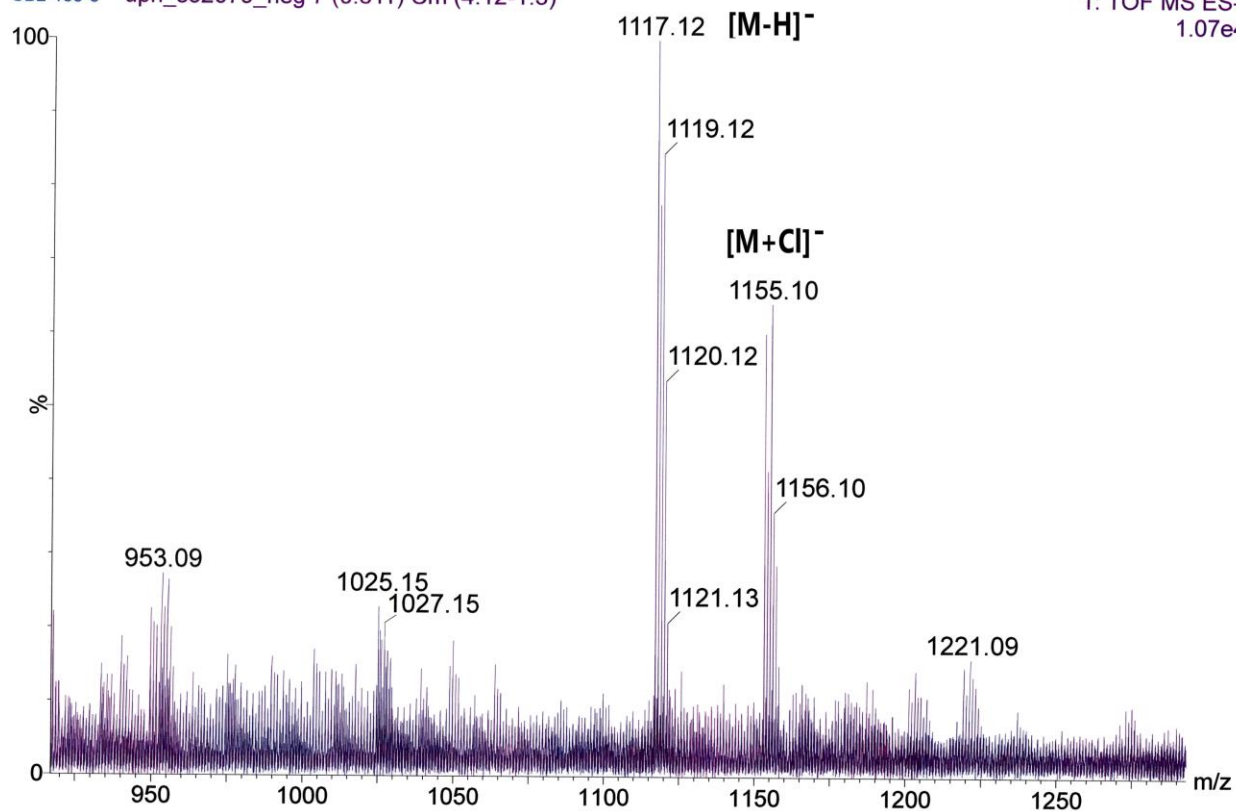


Figure S9: MS spectrum of product **8** (ESI technique, negative ions mode)

[3,7,12-Trinitro- β -{(phenylsulphonyl)methyl}-5,10,15,20-tetraphenylporphyrinato]copper(II) (9)

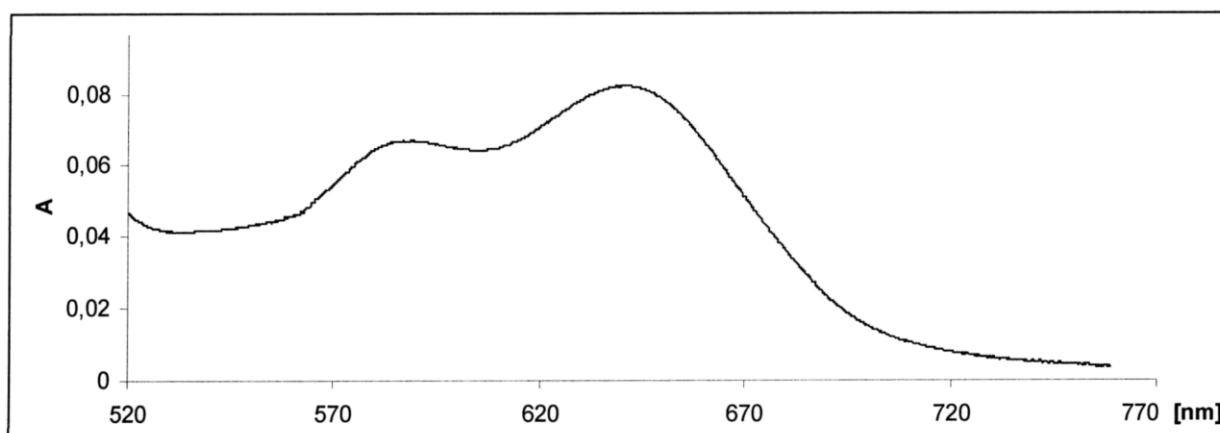
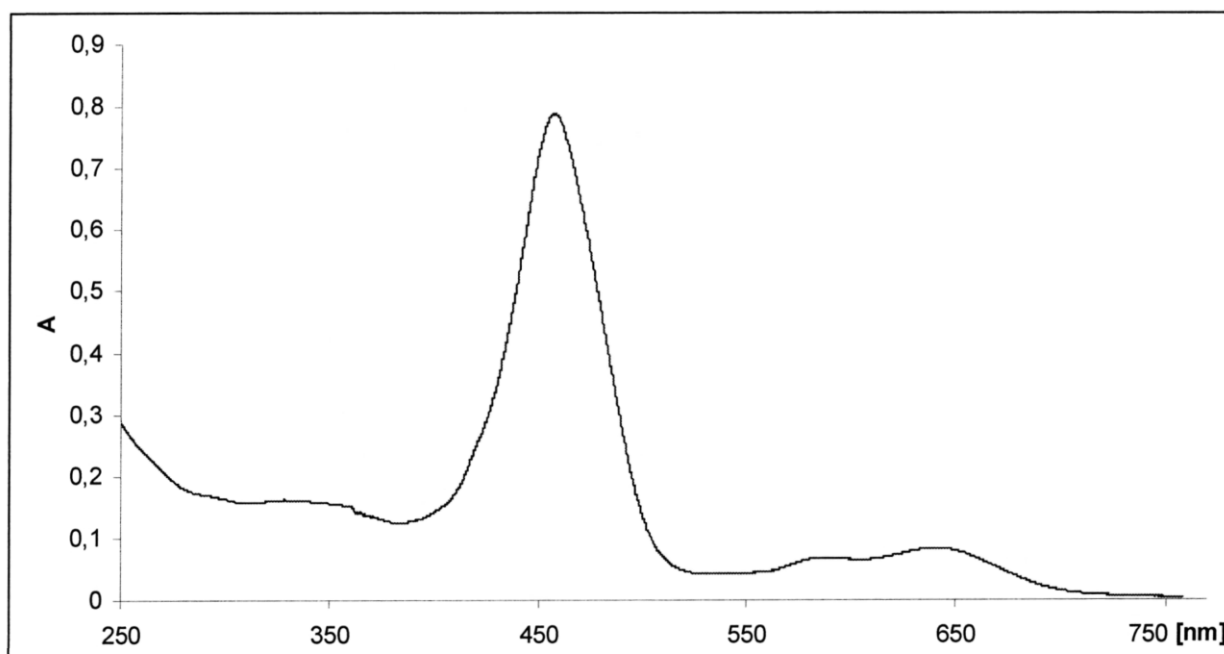
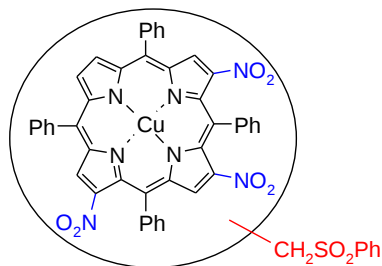


Figure S10: UV-vis spectrum of product **9**

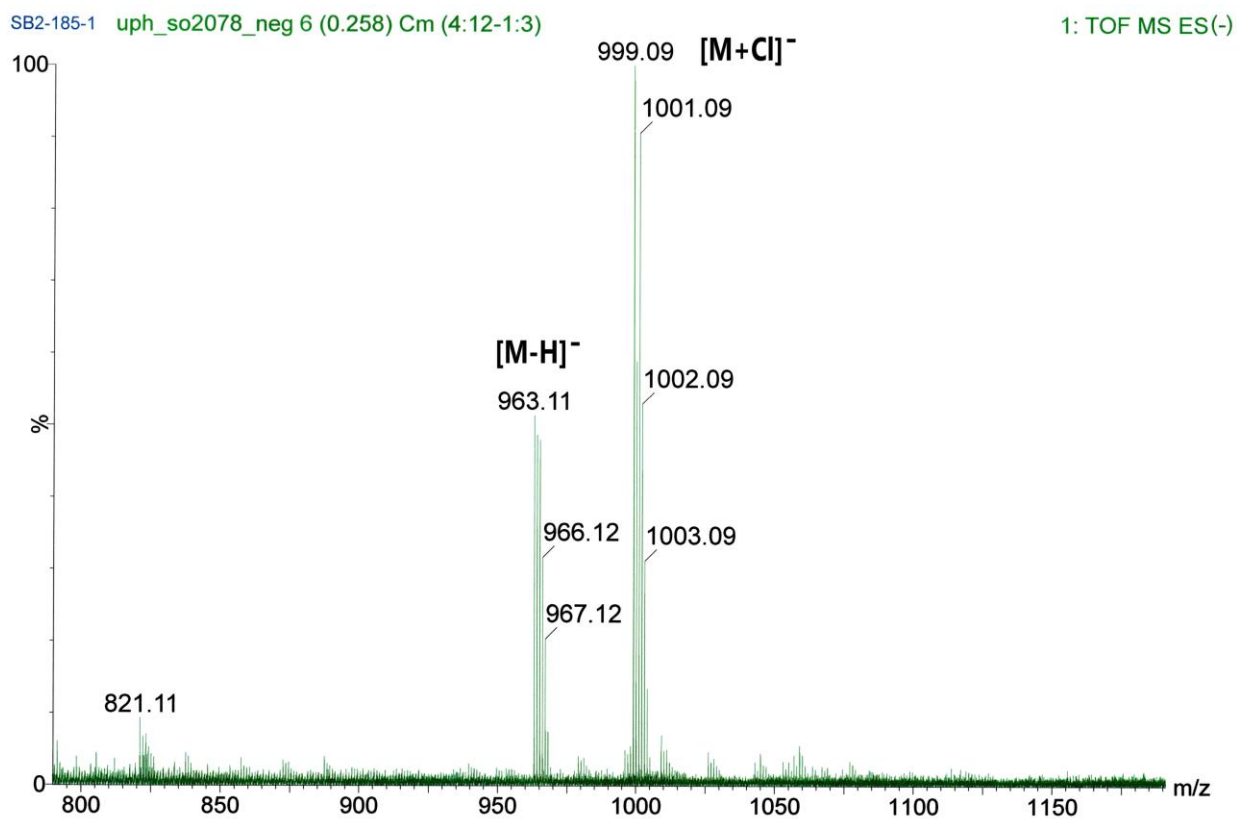


Figure S11: MS spectrum of product **9** (ESI technique, negative ions mode)

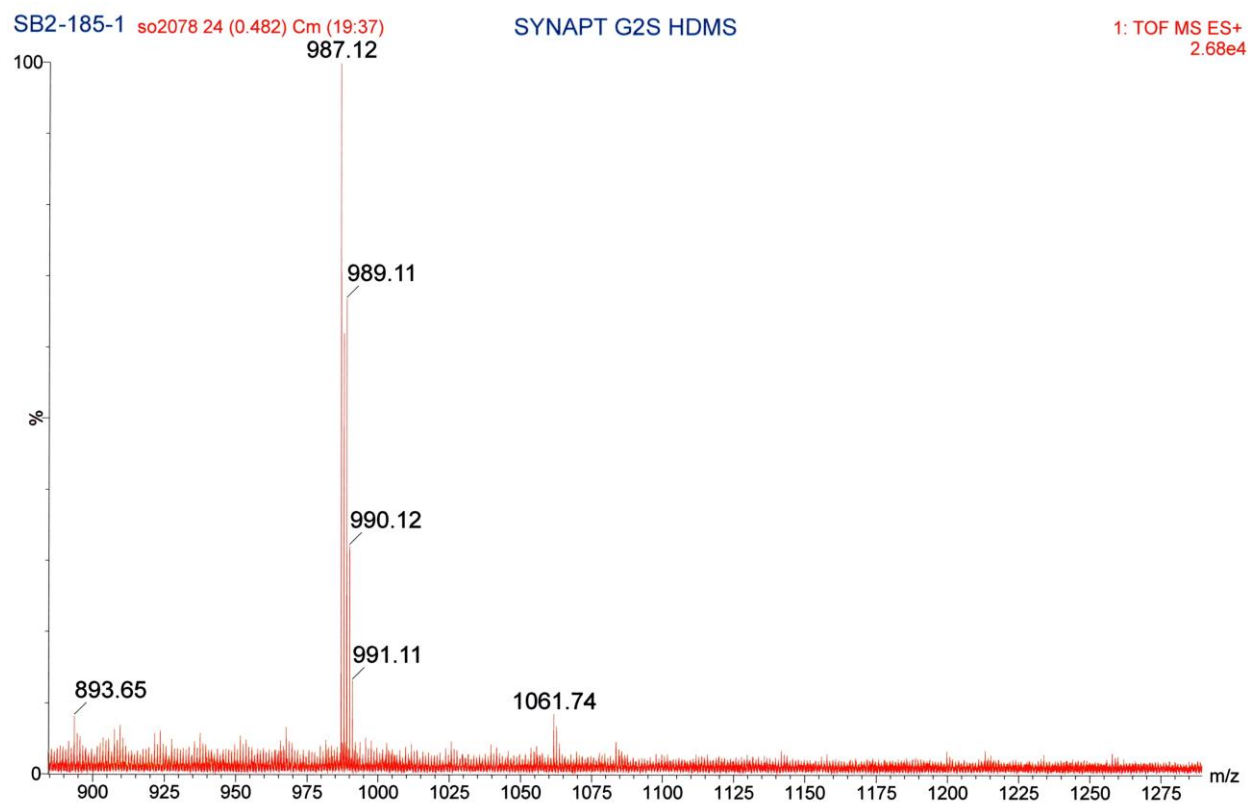


Figure S12: MS spectrum of product **9** ($[M+Na]^+$ ion; ESI technique, positive ions mode)

[3,7,12-Trinitro-2,8,13-tris[(toluene-4-sulphonyl)methyl]-5,10,15,20-tetraphenylporphyrin (10)

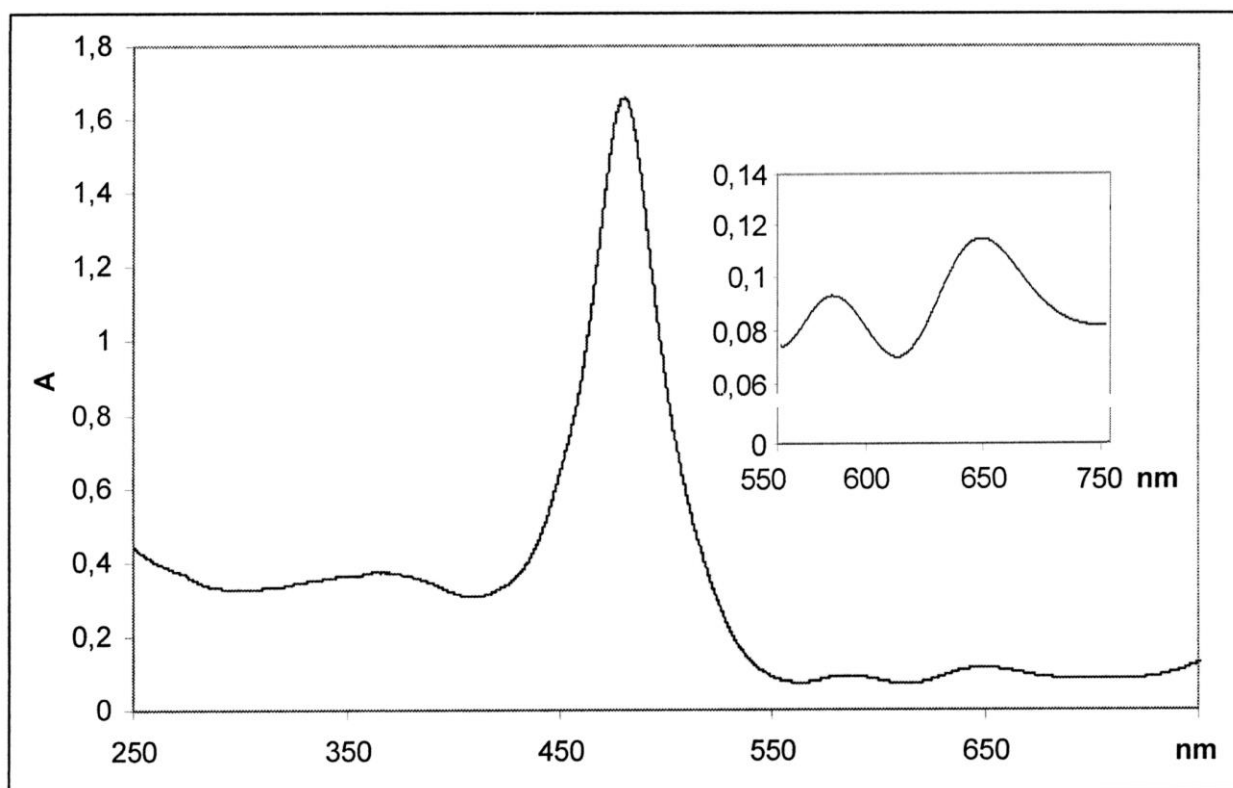
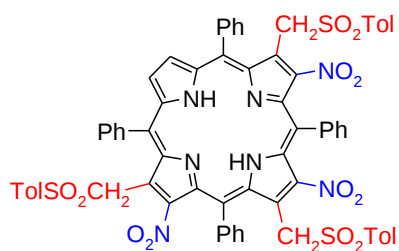


Figure S13: UV-vis spectrum of product **10**

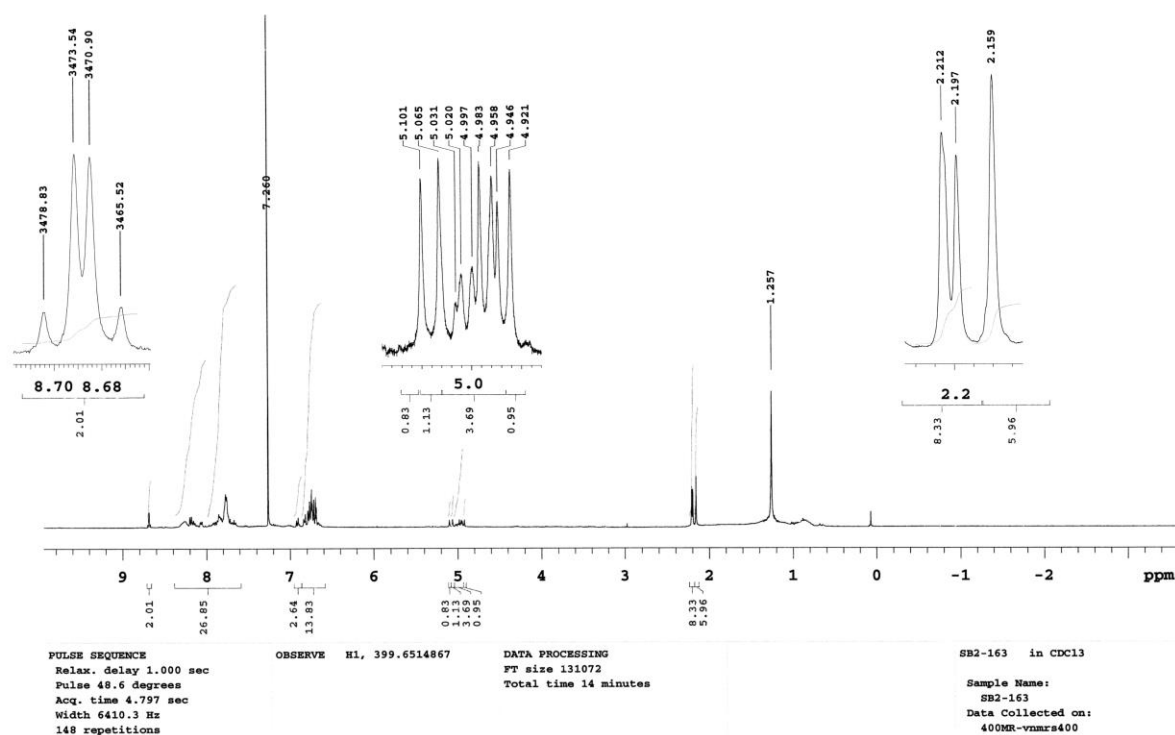


Figure S14: ^1H NMR spectrum of product **10**

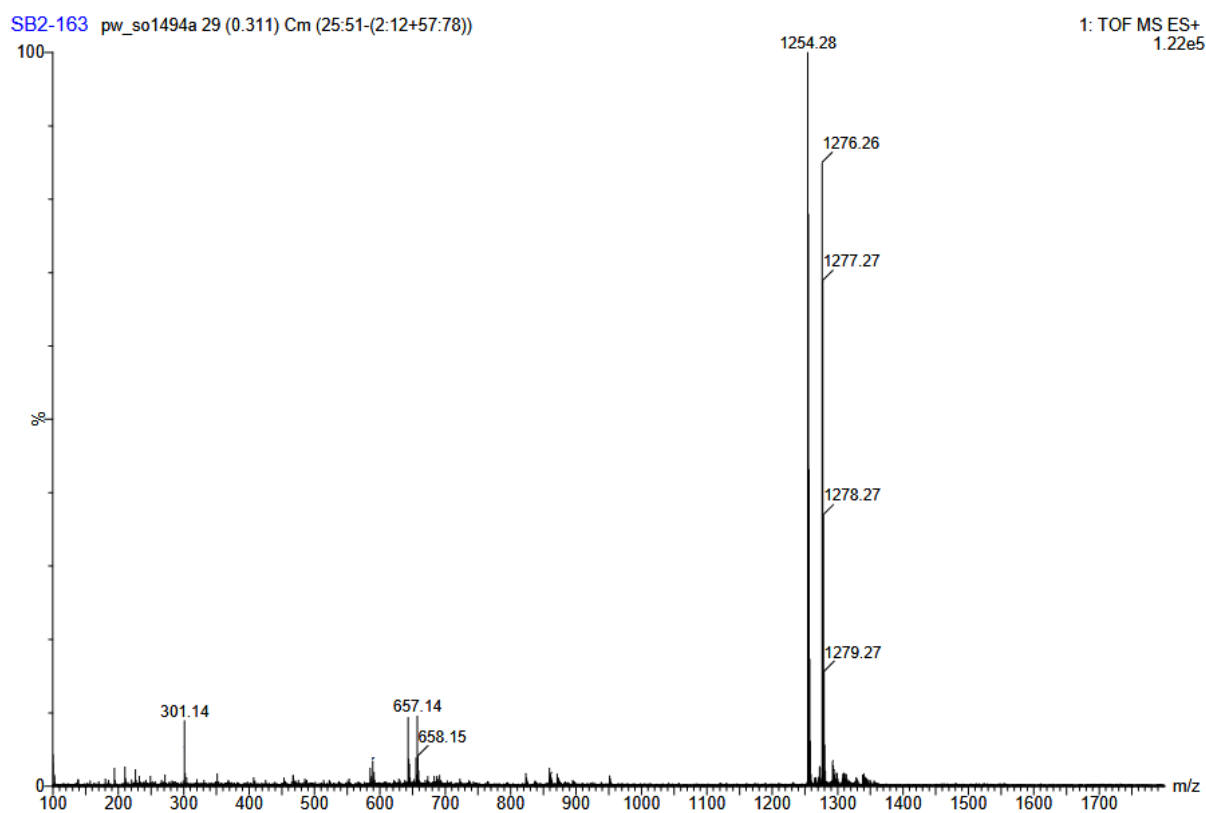


Figure S15: MS spectrum of product **10** (ESI technique, positive ions mode)

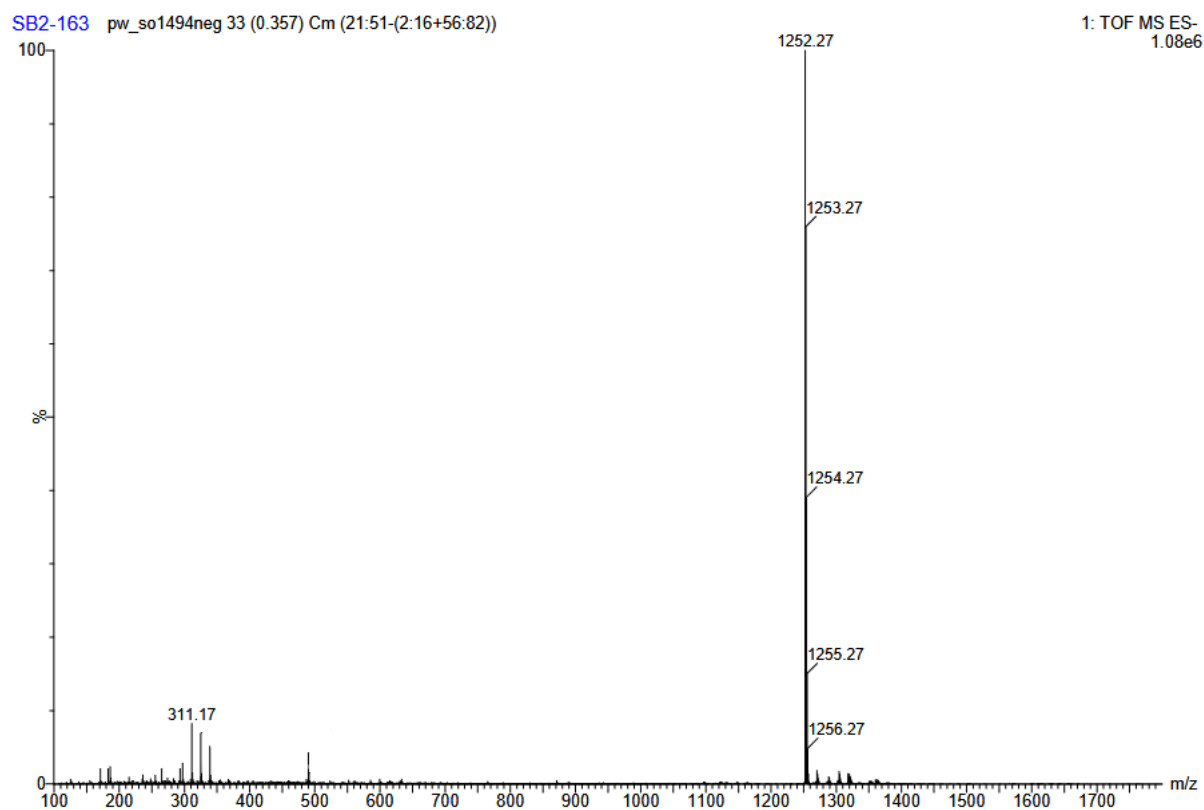


Figure S16: MS spectrum of product **10** (ESI technique, negative ions mode)

3,7,12-Trinitro-2,8,13-tris[(phenylsulphonyl)methyl]-5,10,15,20-tetraphenylporphyrin (11)

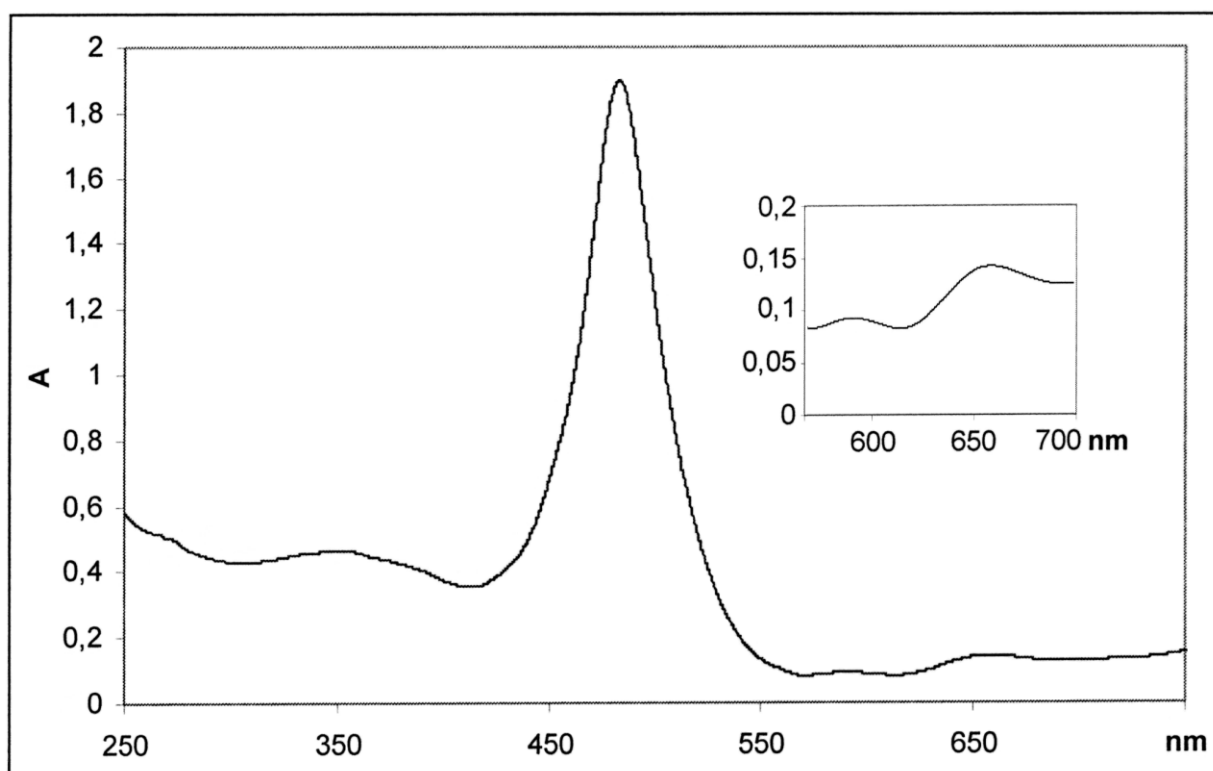
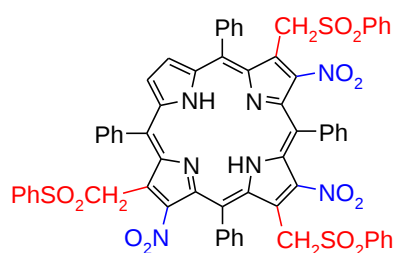


Figure S17: UV-vis spectrum of product **11**

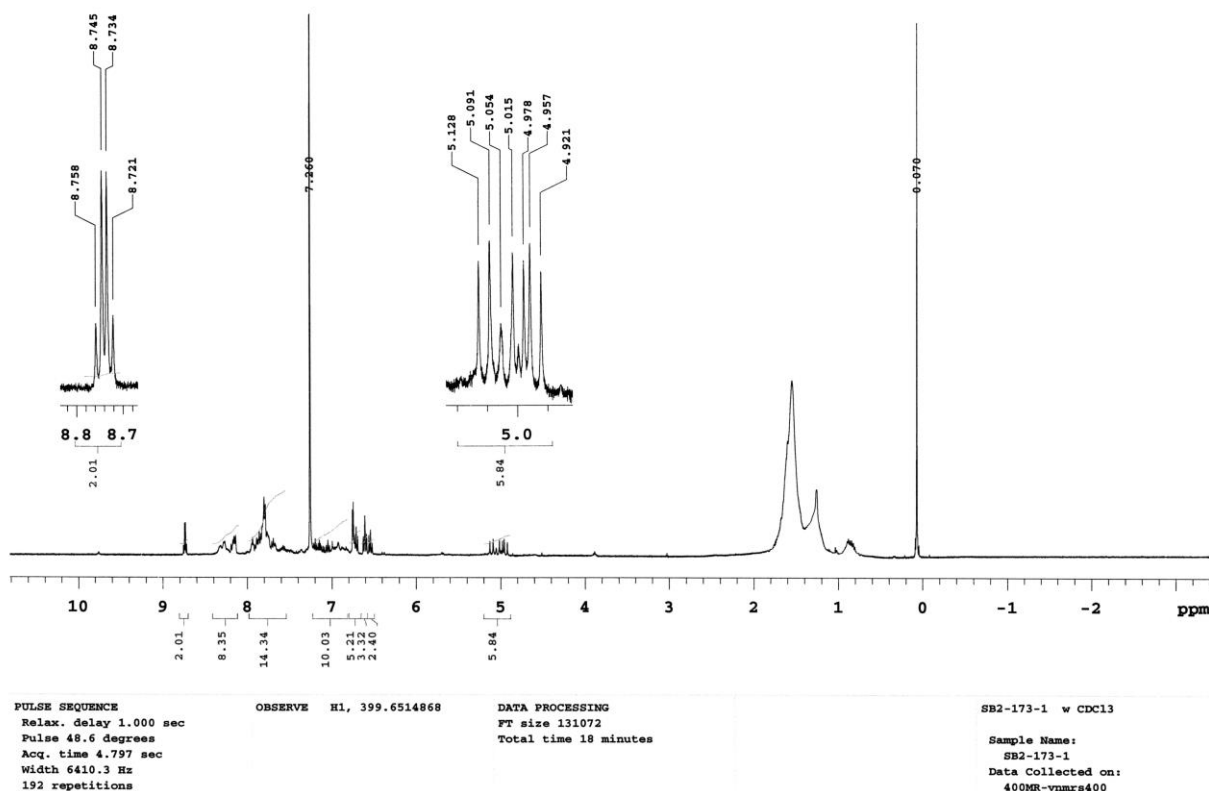


Figure S18: ^1H NMR spectrum of product **11**

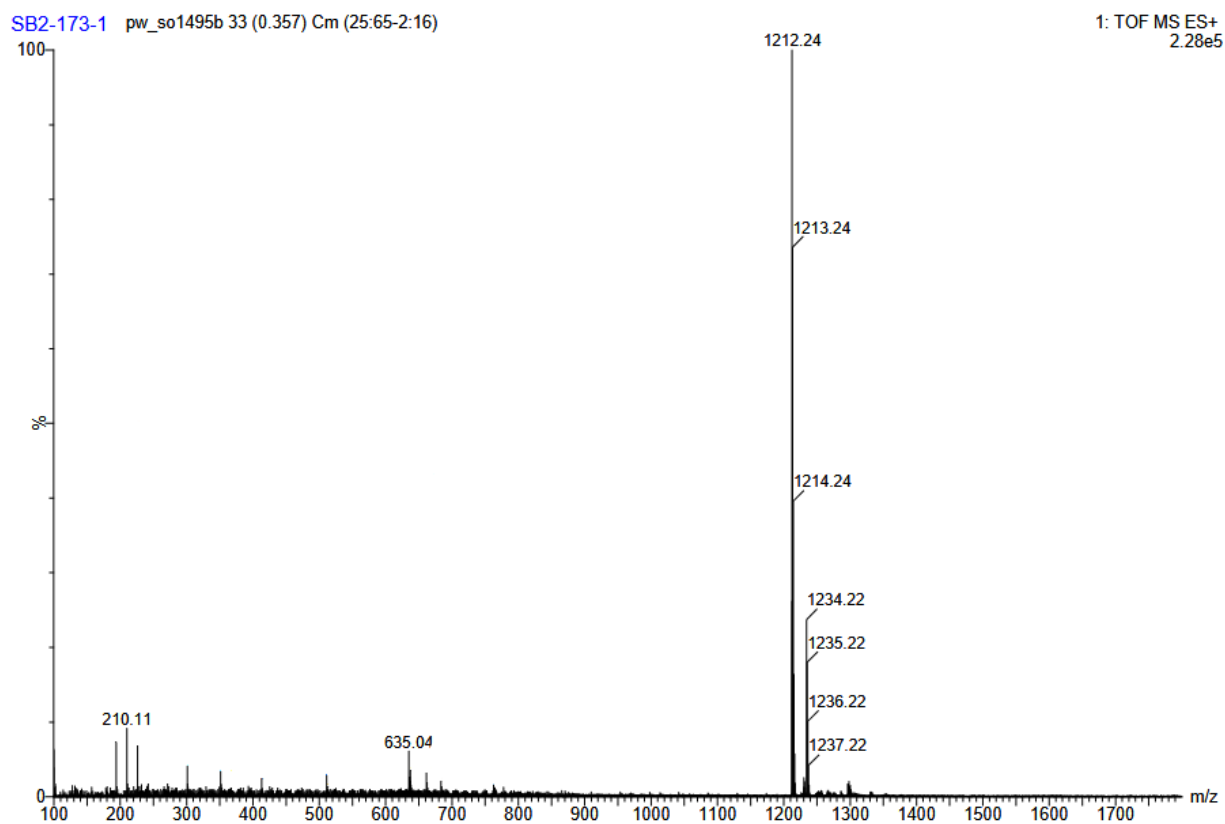


Figure S19: MS spectrum of product **11** (ESI technique, positive ions mode)

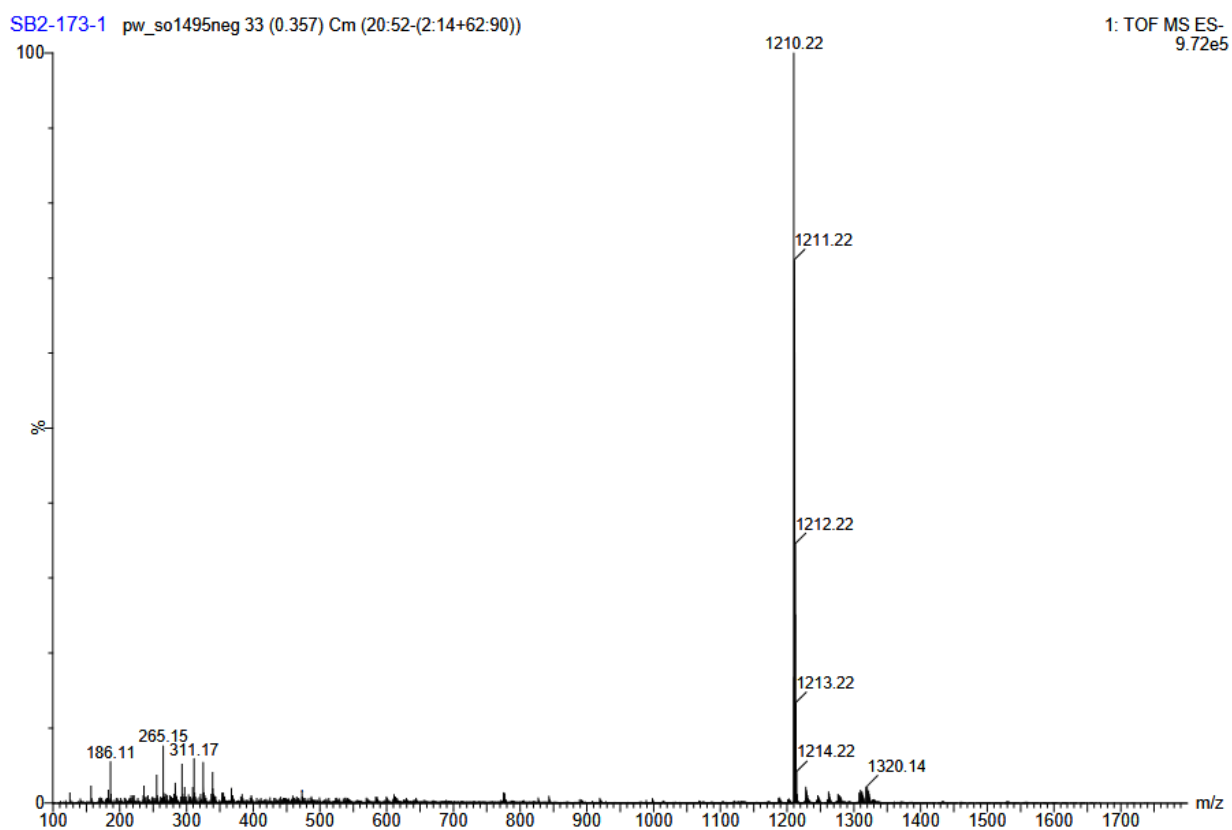


Figure S20: MS spectrum of product **11** (ESI technique, negative ions mode)