Supporting Information

a) RAIRS of Tetra(mesityl)porphyrin (1) on Cu(110), 300K

b) RAIRS of Tetraphenylporphyrin on Cu(110), 300K

Both sets of data show a close correspondence to data obtained from pressed KBr discs of the original porphyrin.
High coverage STM image

STM image (50 x 90 nm) of 1 at high coverage on Cu(110)
LDI-TOF MS in positive mode of a sample of I heated with a large excess of copper turnings at 180ºC.
LDI-TOF MS in positive mode of a sample of 1 heated with a large excess of copper turnings at 180°C.
LDI-TOF MS in positive mode of a sample of 1 heated with a large excess of copper turnings in DMF at 100ºC.