

Supplementary Information

Figure S1. X-ray powder diffraction pattern for complex **1** plotted against predicted pattern.

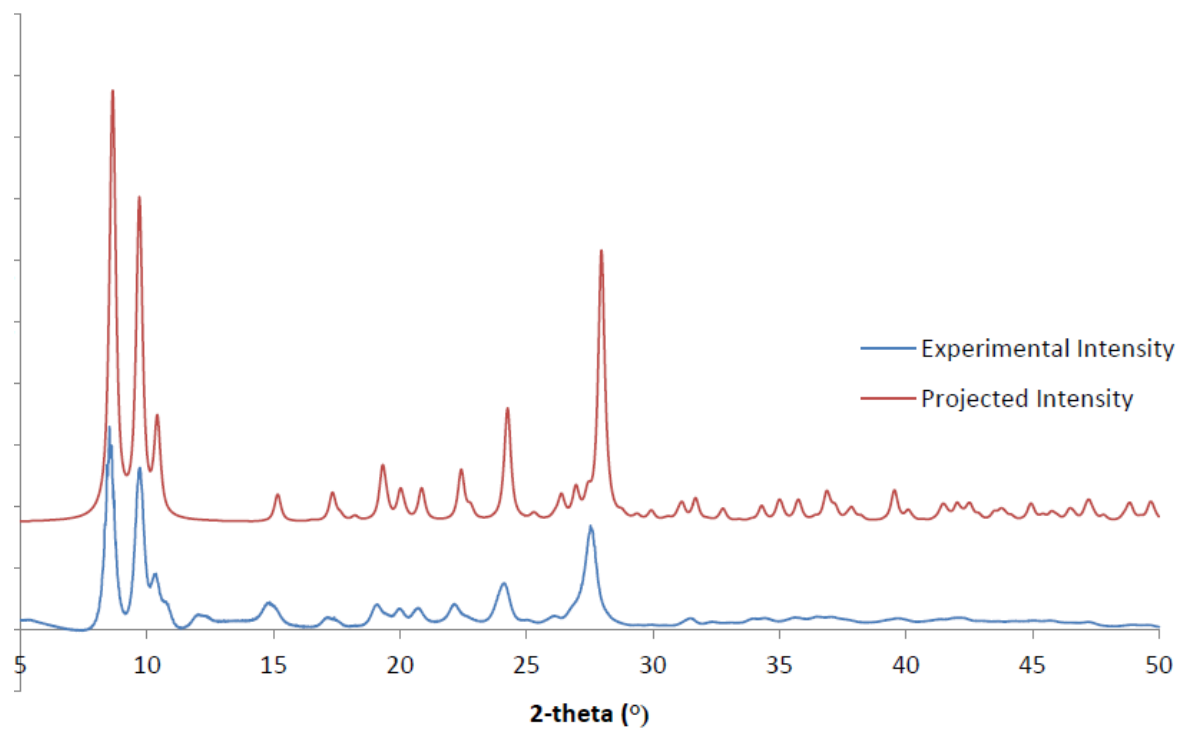


Figure S2. X-ray powder diffraction pattern for complex **2** plotted against predicted pattern.

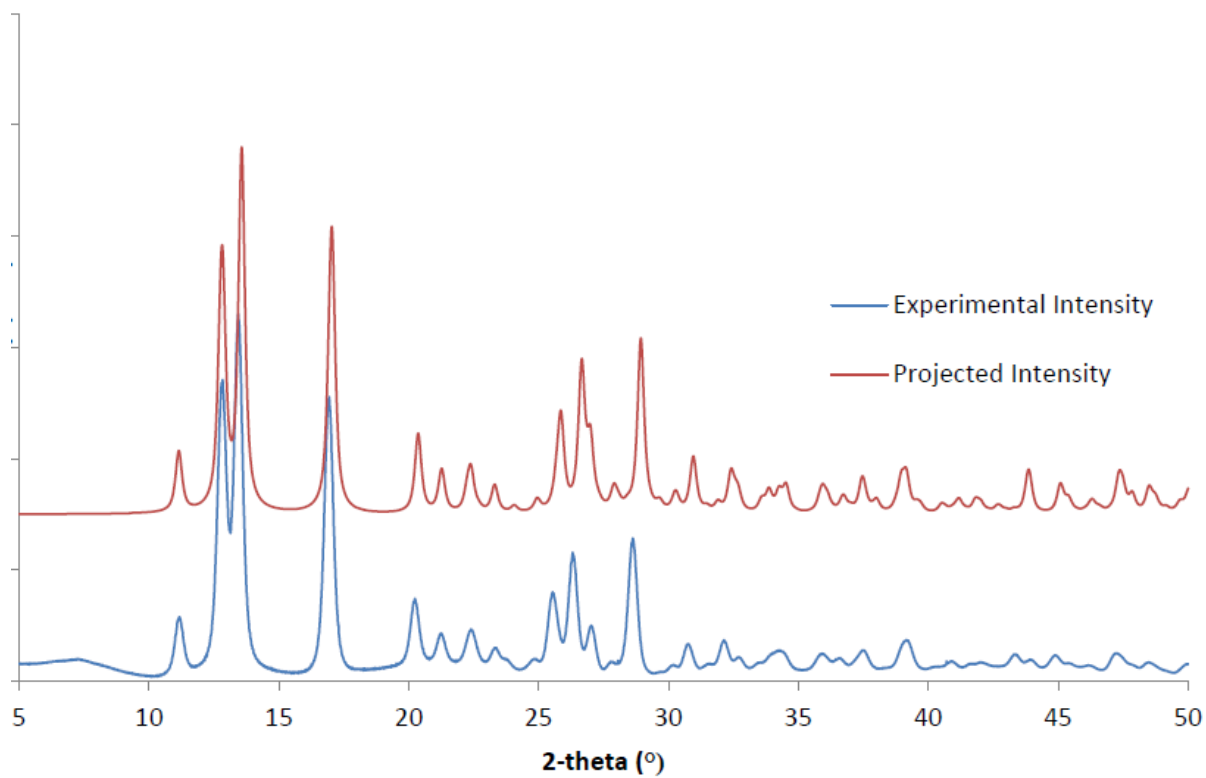


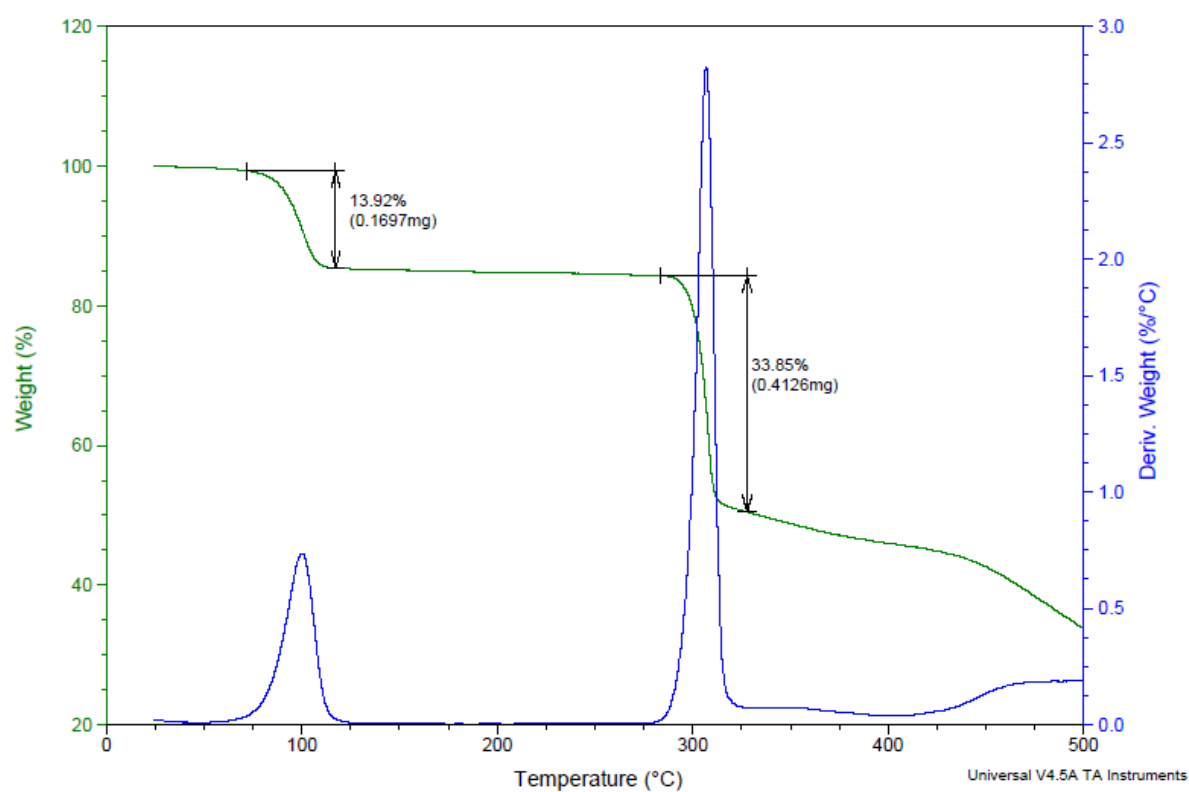
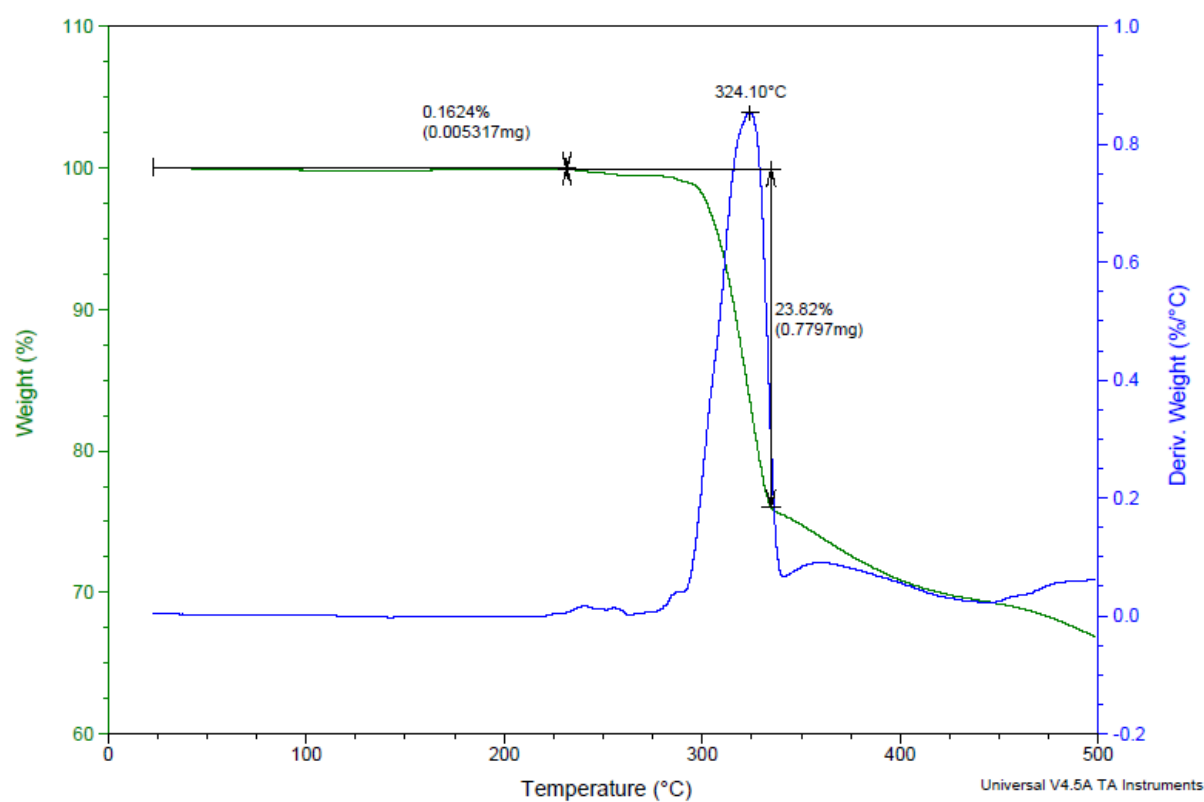
Figure S3. Thermogravimetric analysis trace for complex 1.**Figure S4.** Thermogravimetric analysis trace for complex 2.

Table S1. Hydrogen bonding parameters for complex 1.

D	H	A	d(D-H)/Å	d(H-A)/Å	d(D-A)/Å	D-H-A/°
O16	H16	O14 ¹	0.844(10)	1.822(11)	2.662(2)	173(3)

$$^1 -1 + X, +Y, +Z.$$

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