

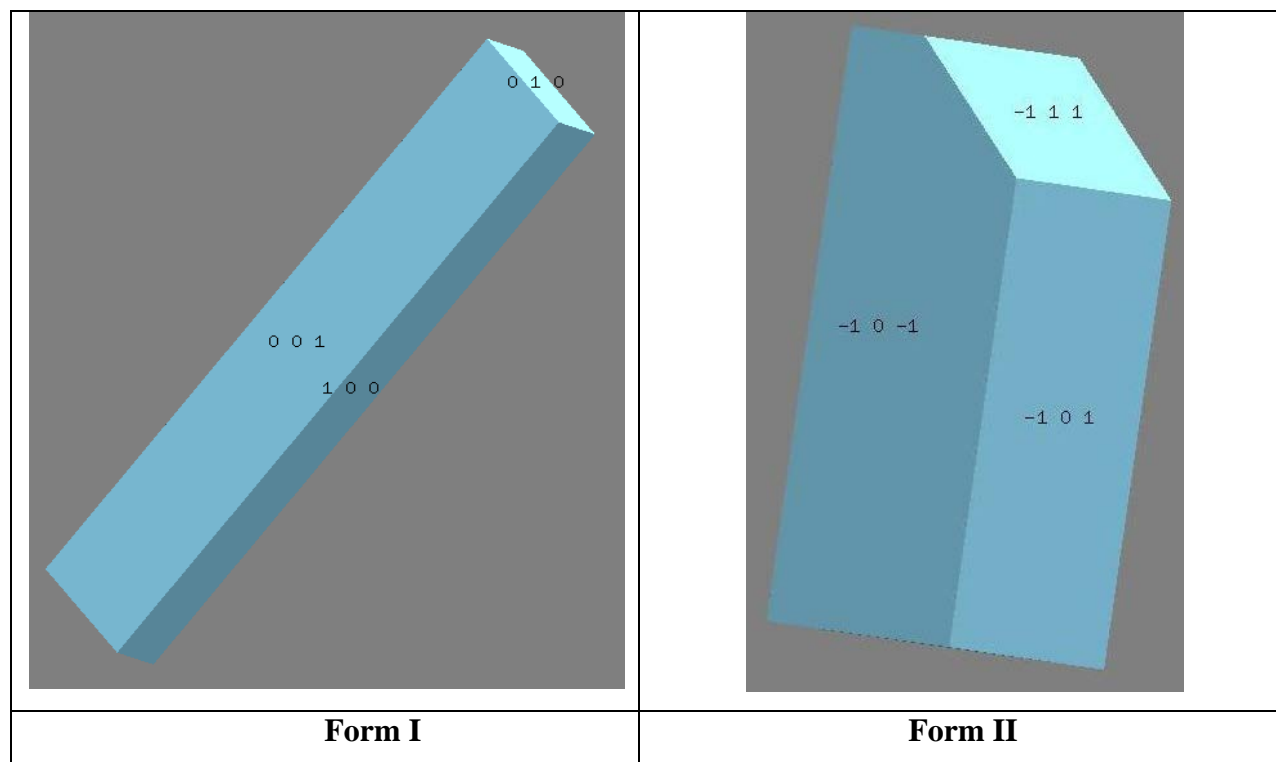
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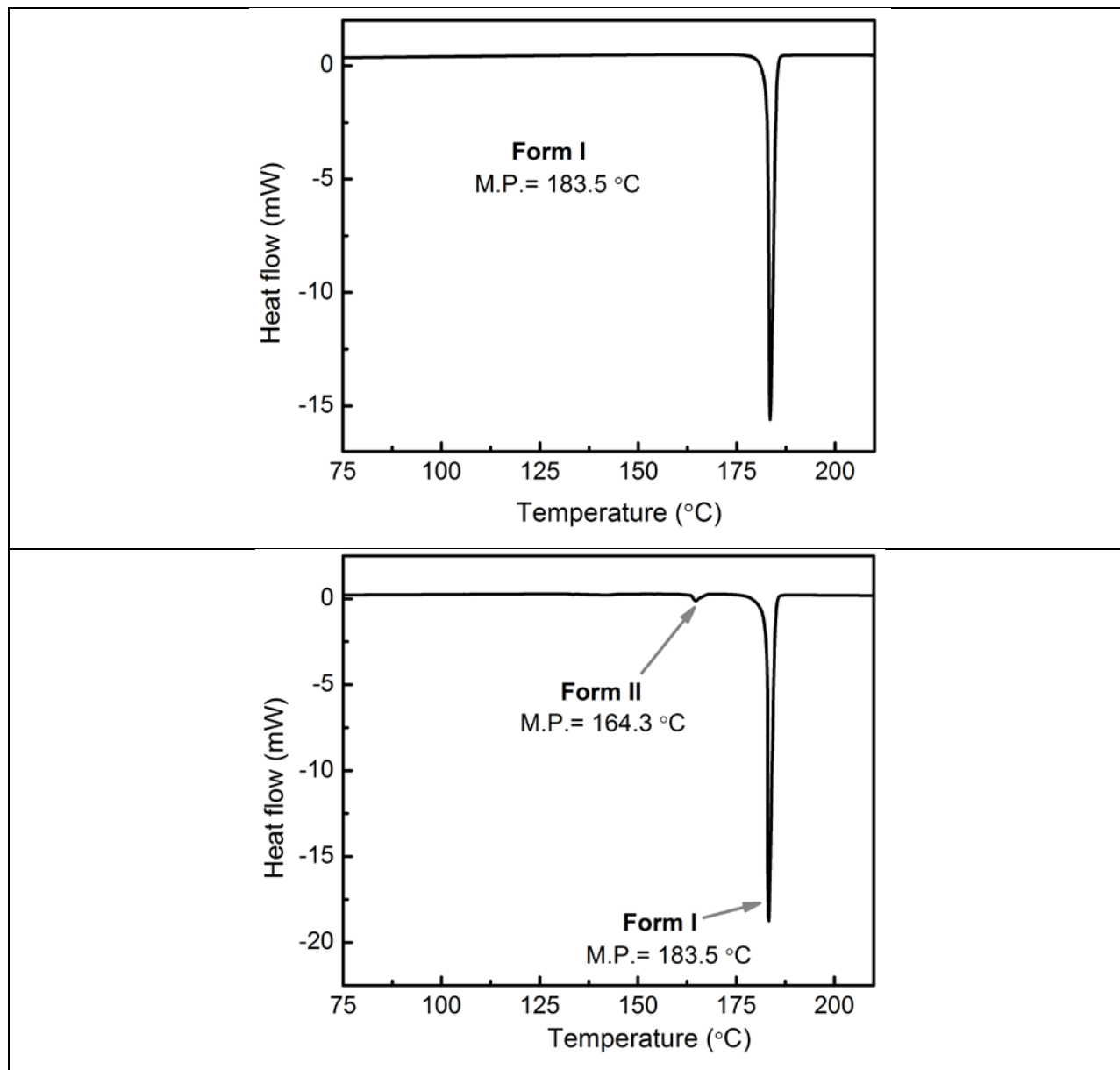
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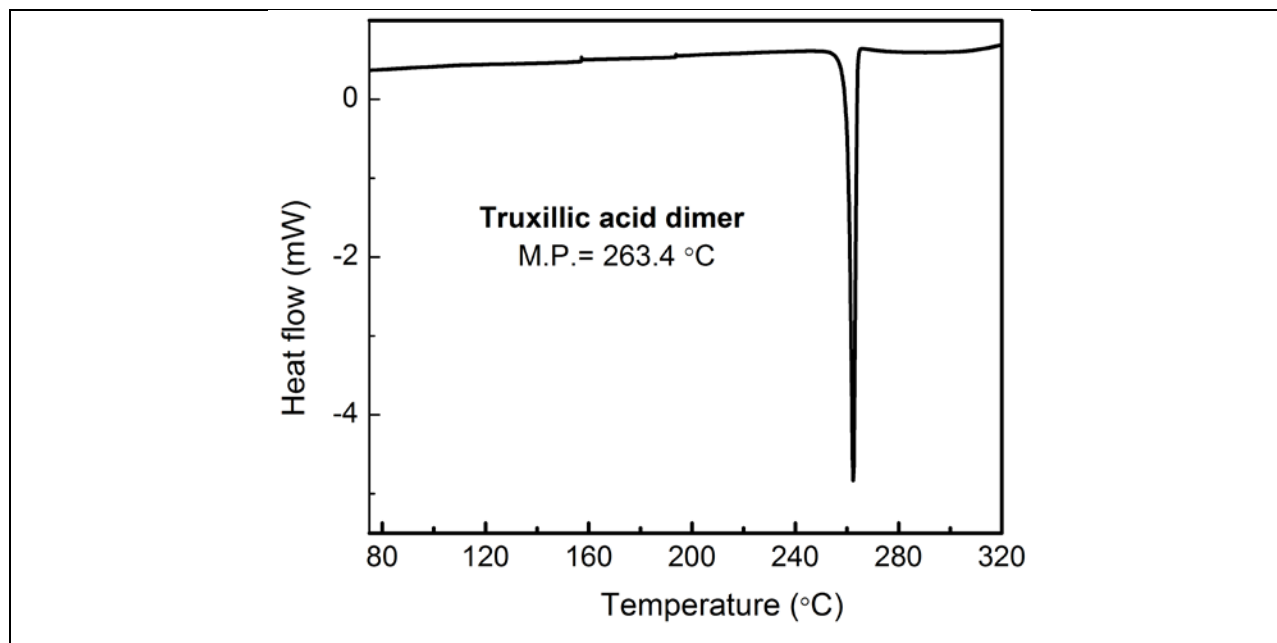
**Supporting information for article:**

**Crystal chemistry and photomechanical behavior of 3,4-dimethoxycinnamic acid: correlation between maximum yield in the solid-state topochemical reaction and cooperative molecular motion**

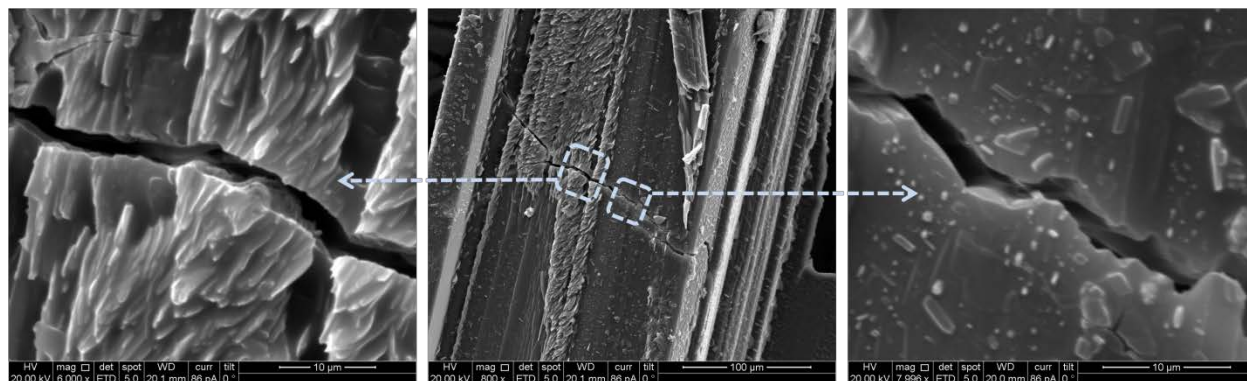
**Manish Kumar Mishra, Arijit Mukherjee, Upadrasta Ramamurty and Gautam R. Desiraju**

**Figure S1** Face index images of DMCA polymorphs

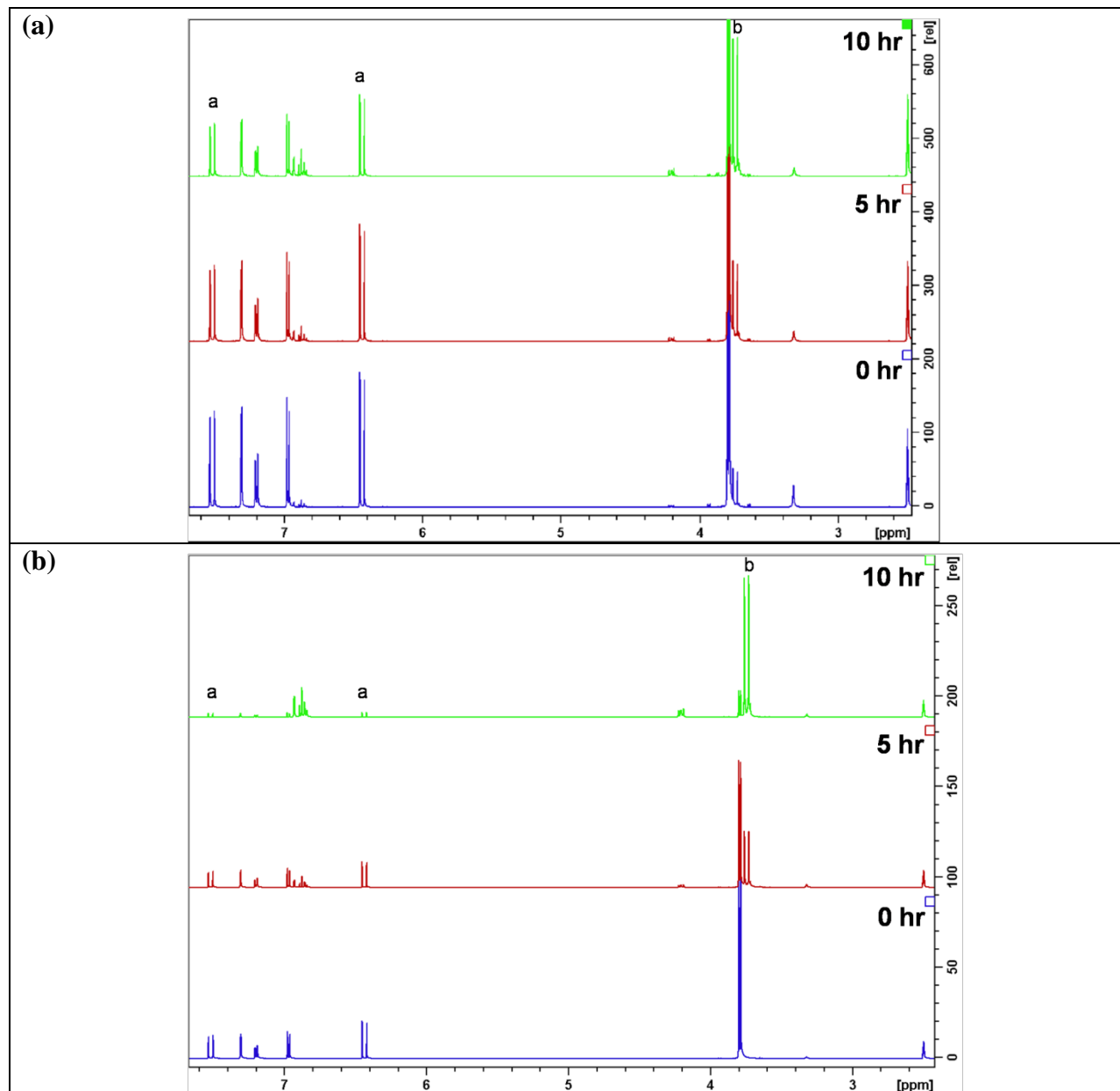
**Figure S2** DSC and melting point (m.p.) of DMCA polymorphs and truxillic acid dimer

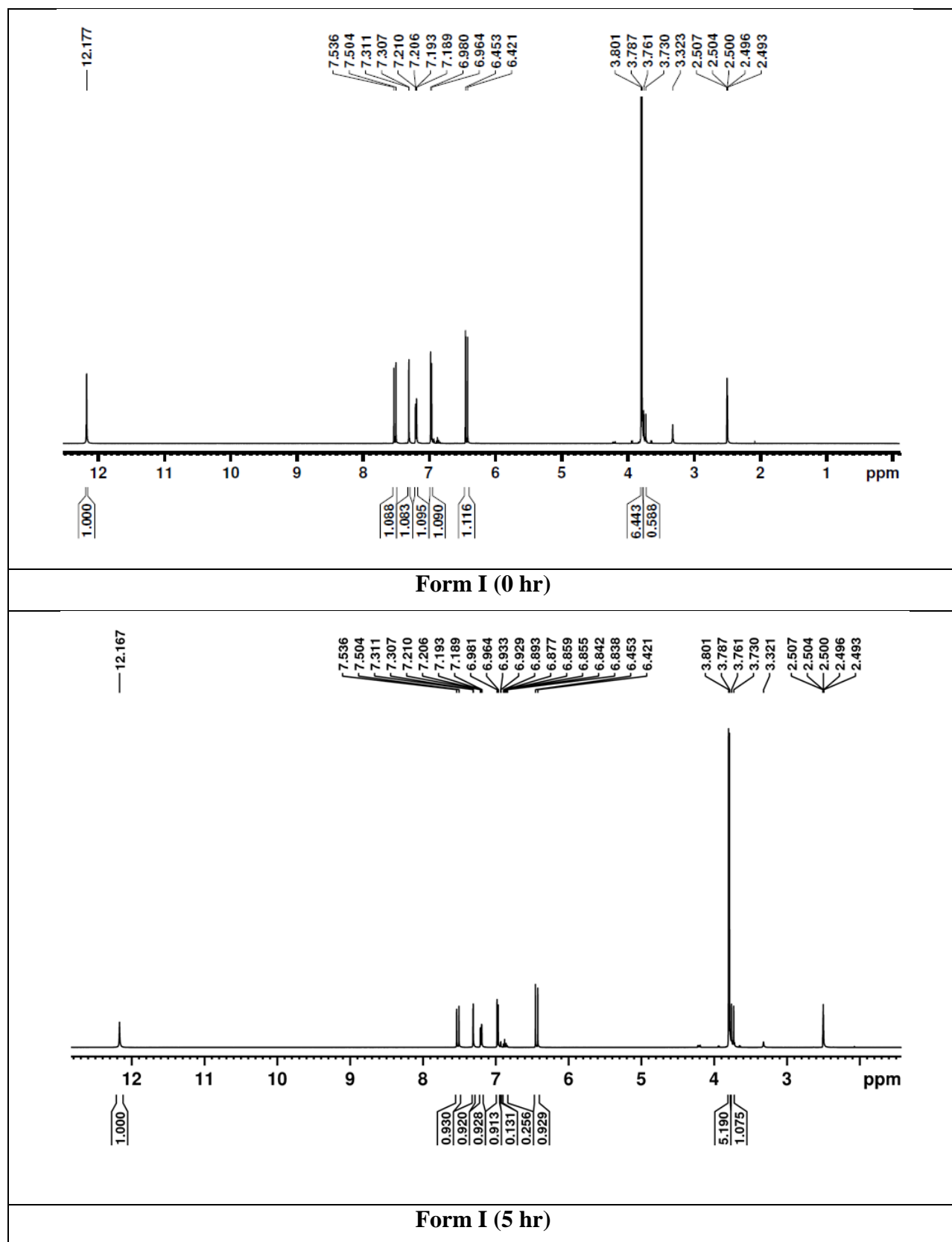


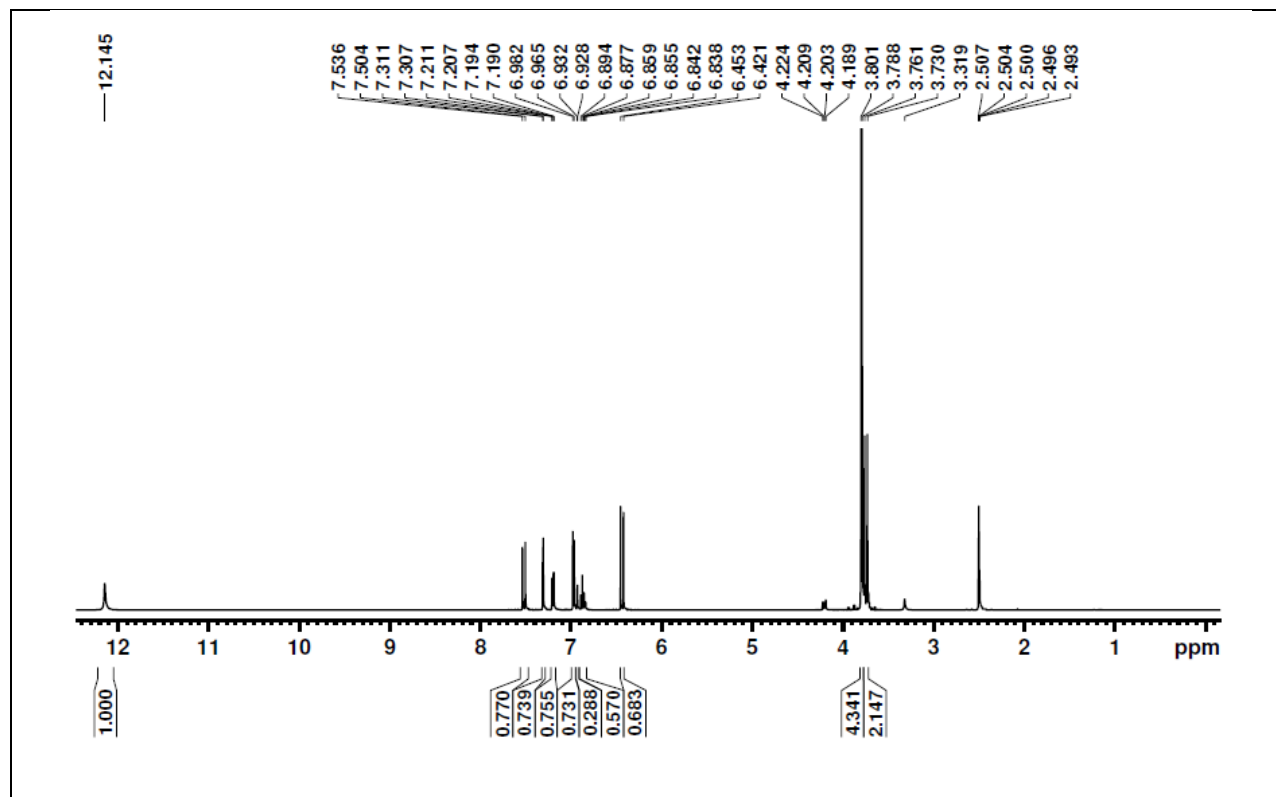
**Figure S3** SEM images of the cracks on the crystal surface (001) face of form I



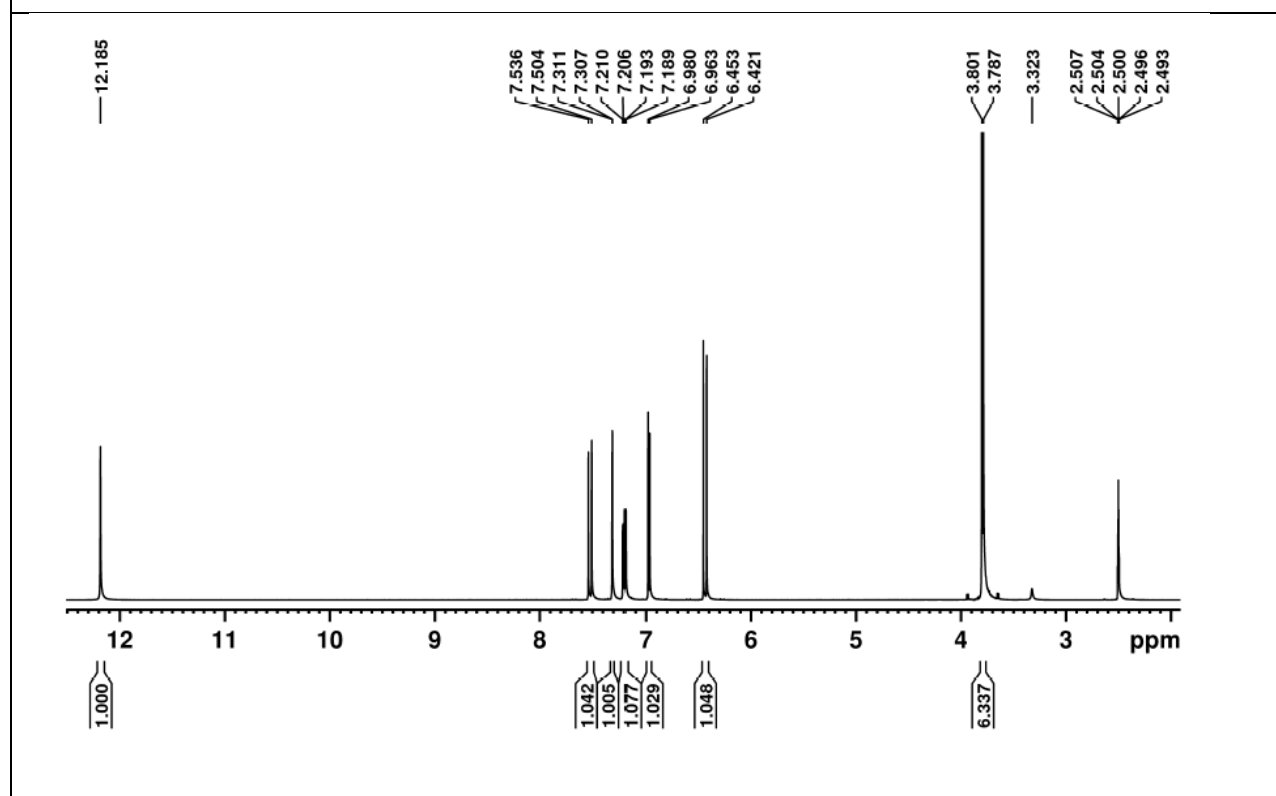
**Figure S4** Solution state  $^1\text{H}$  NMR spectra recorded for form I (a) and form II (b) of DMCA polymorphs after UV irradiation for 0, 5 and 10 hr.



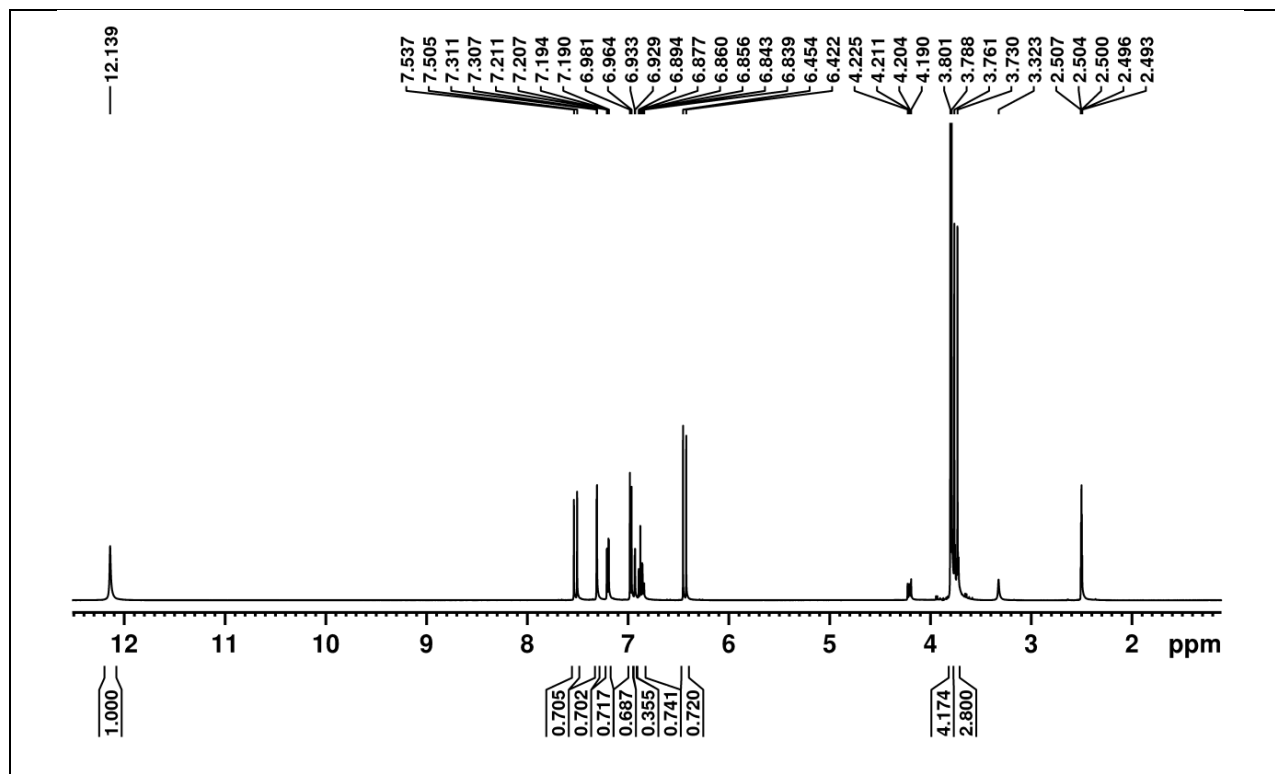
**Figure S5** NMR spectra of DMCA polymorphs



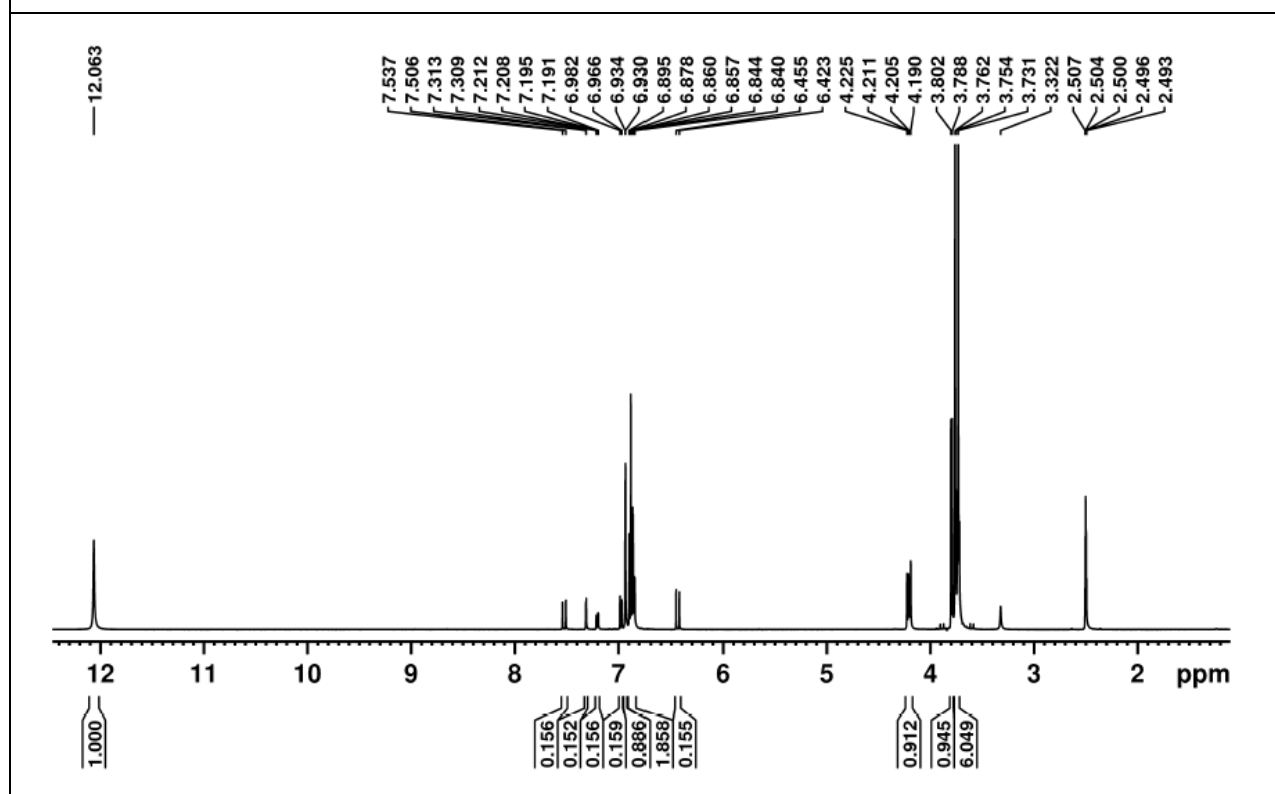
Form I (10 hr)



Form II (0 hr)



Form II (5 hr)



Form II (10 hr)