

## Supplementary Materials

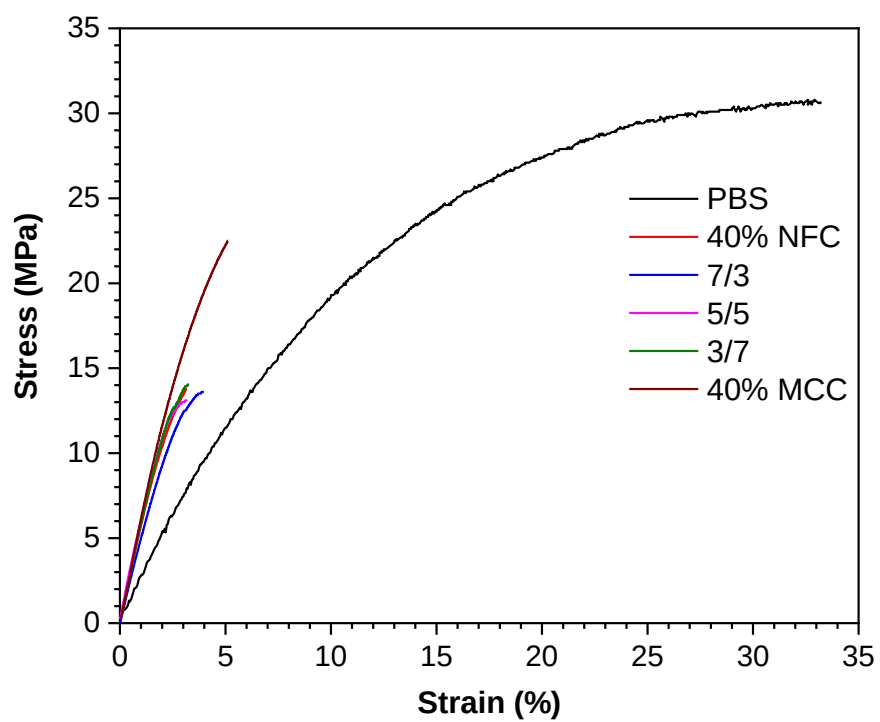


**Figure S1.** Example of the characteristic tensile curves of PBS/cellulose composites.

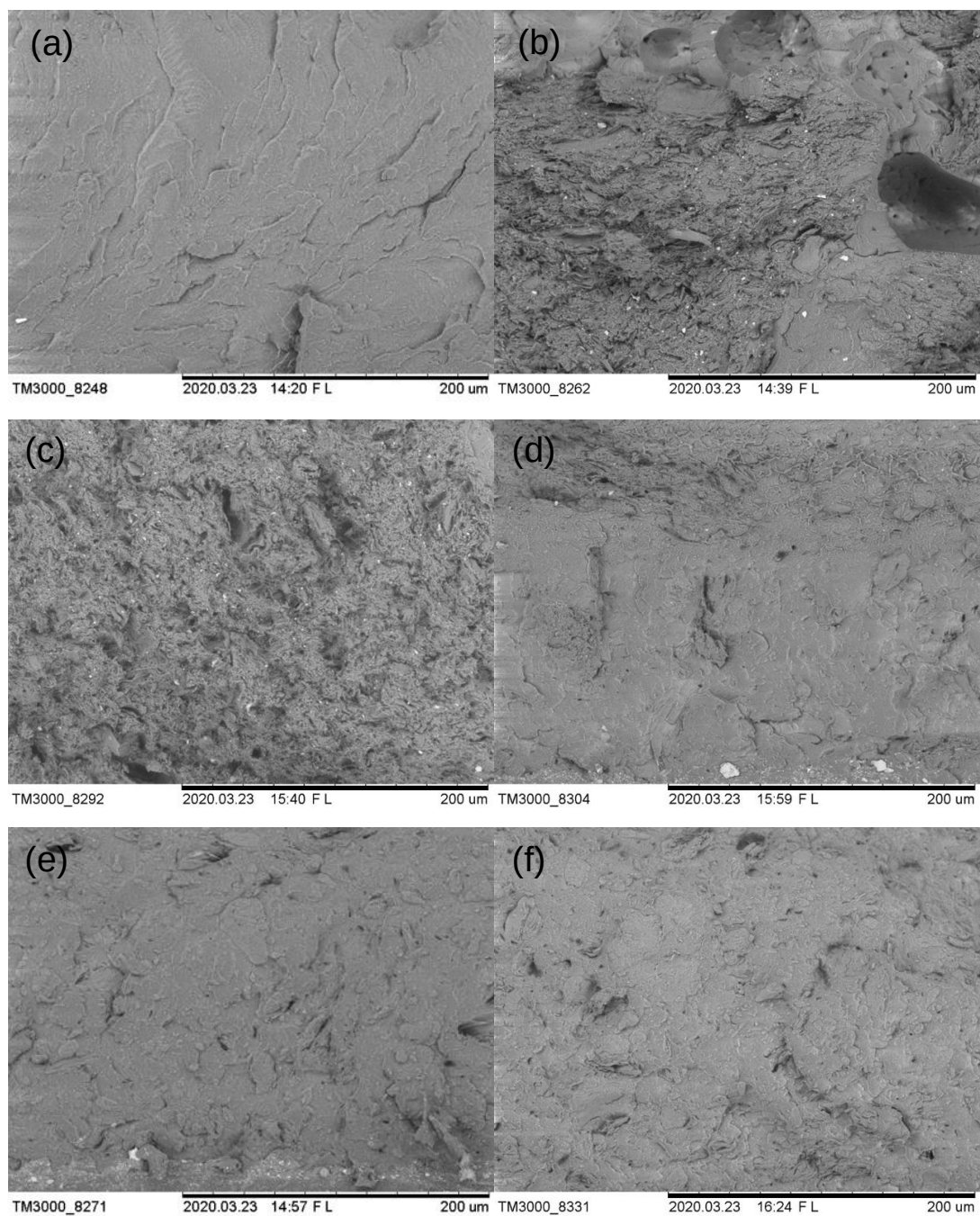


**Figure S2.** Scanning electron microscopy micrographs: **(a)** PBS; **(b)** 40% NFC; **(c)** 7/3; **(d)** 5/5; **(e)** 3/7 and **(f)** 40% MCC.

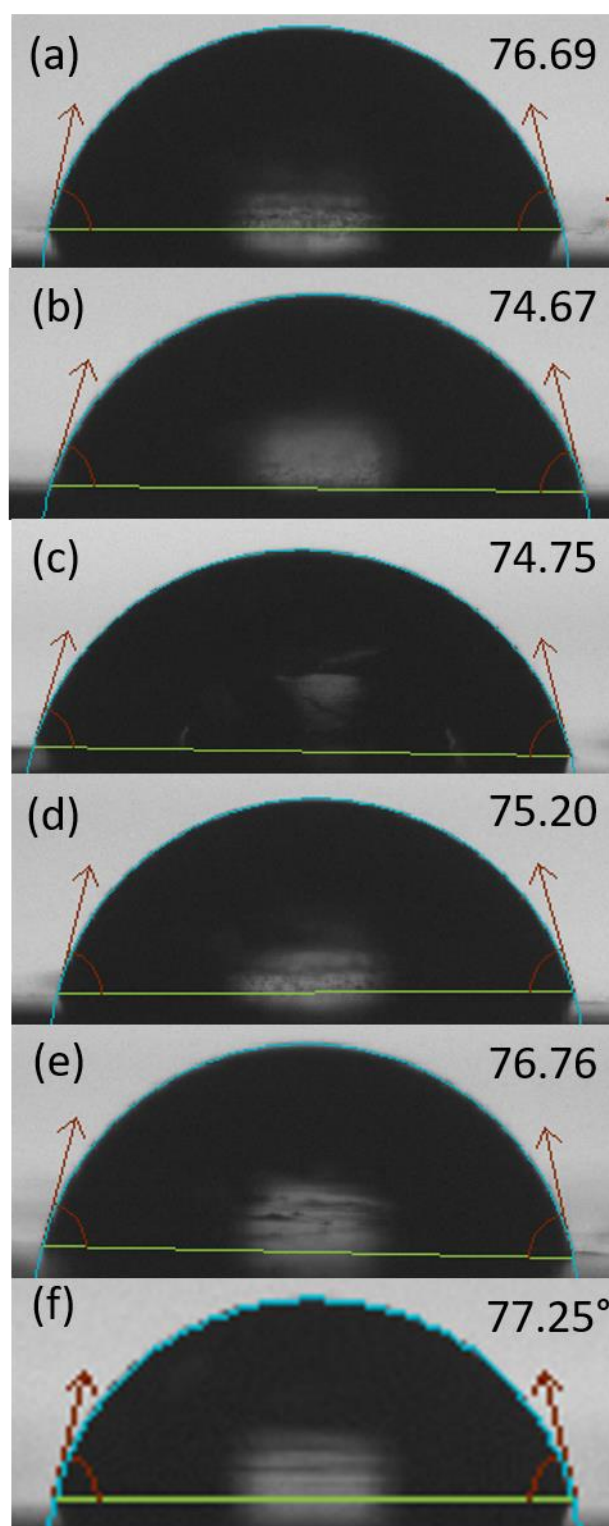
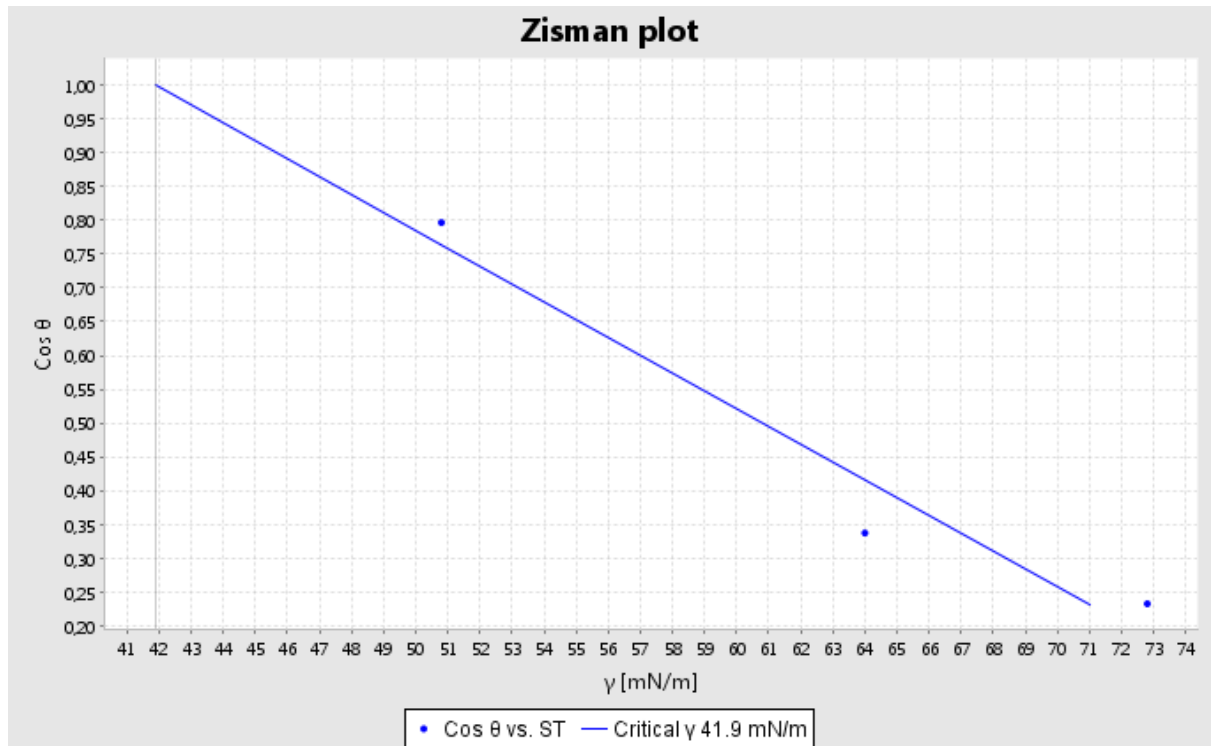
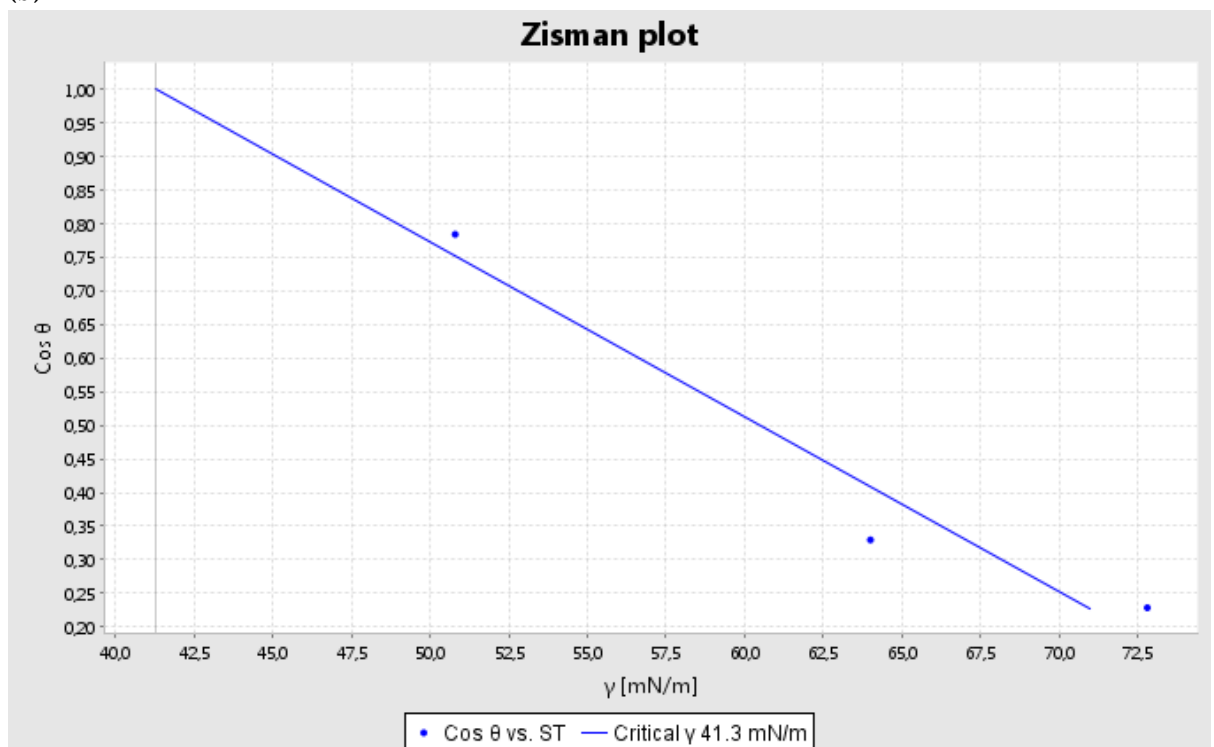


**Figure S3.** The measured contact angles: (a) 40% MCC; (b) 3/7; (c) 5/5; (d) 7/3; (e) 40% NFC and (f) PBS.

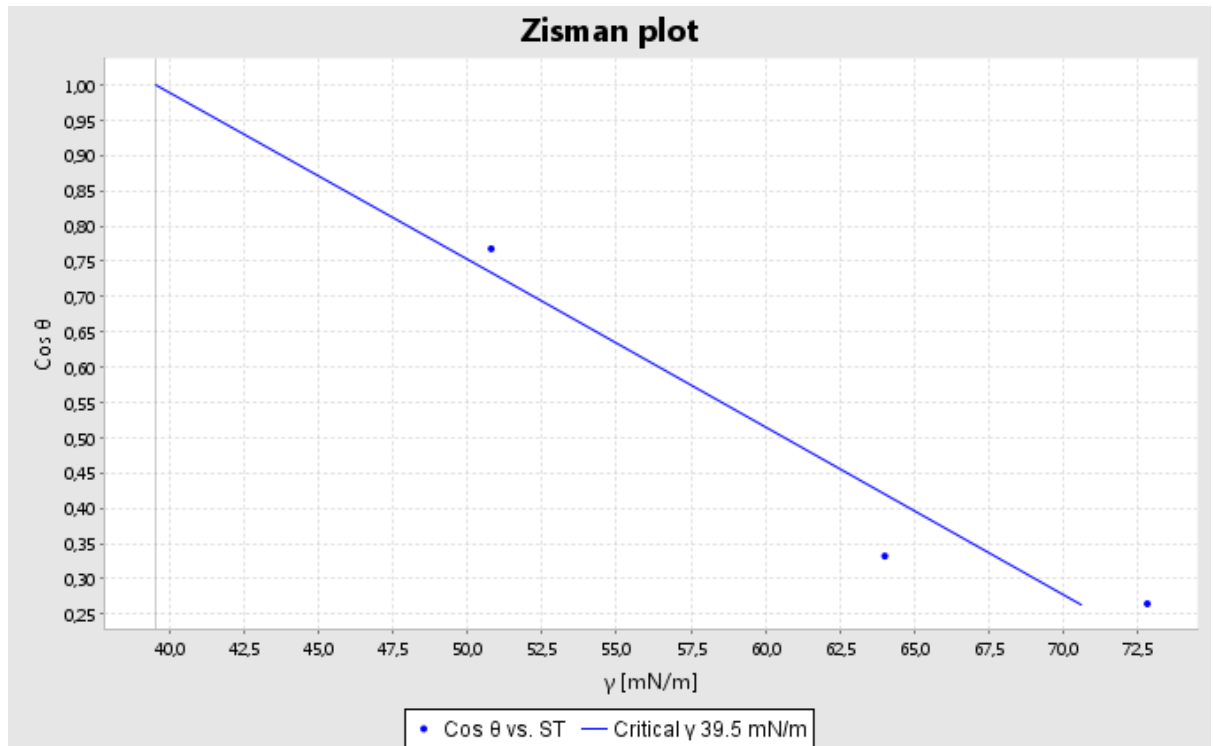
(a)



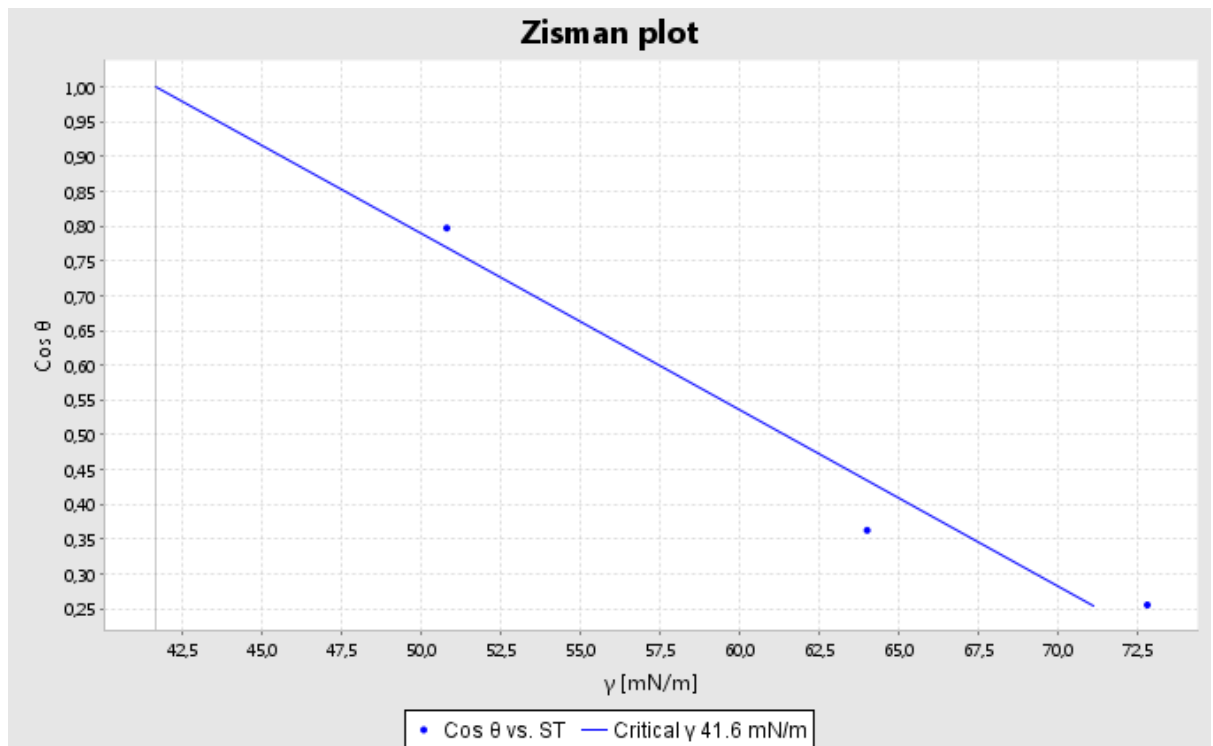
(b)



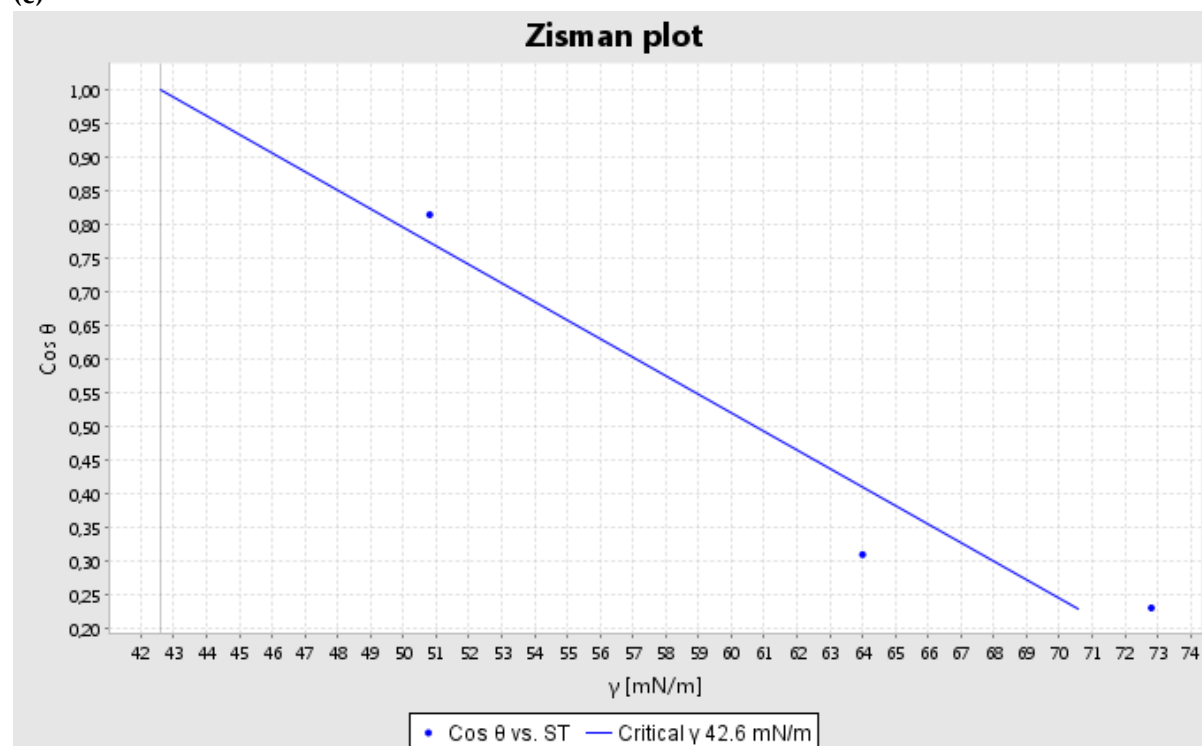
(c)



(d)



(e)



(f)

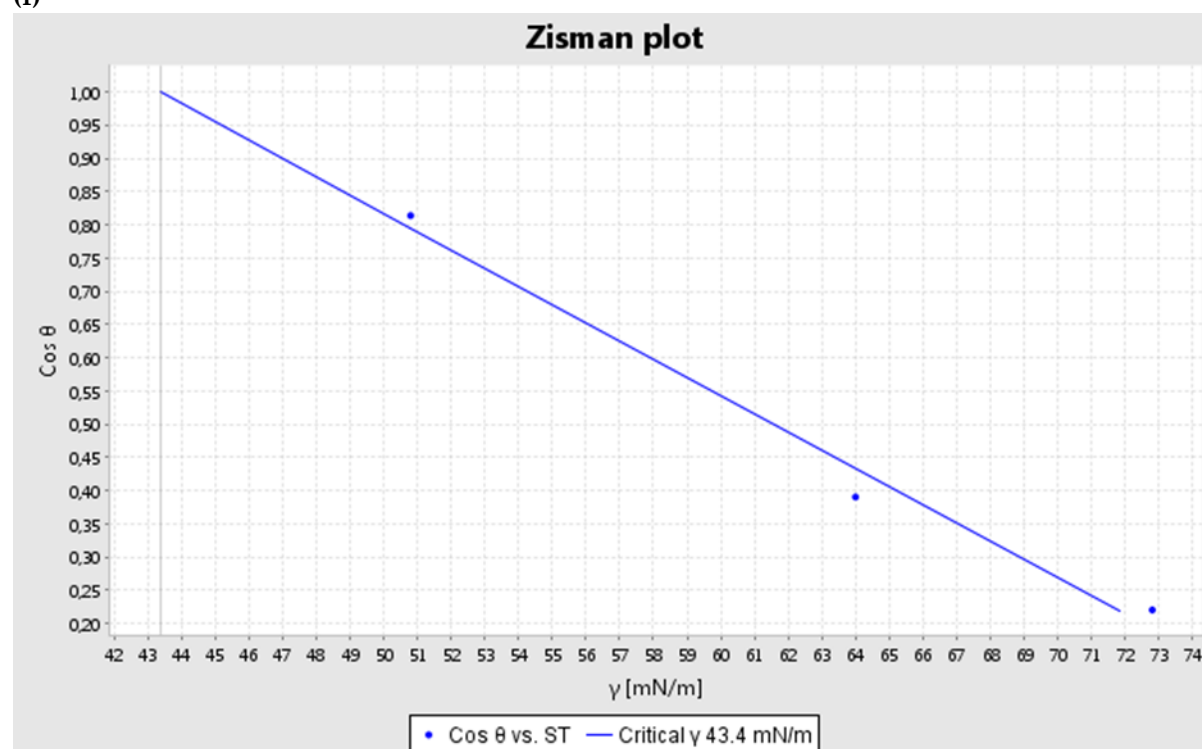


**Figure S4.** Zisman plots: (a) 40% MCC; (b) 3/7; (c) 5/5; (d) 7/3; (e) 40% NFC and (f) PBS.