

SUPPLEMENTARY INFORMATION

Selectivity behaviour of two roof-shaped host compounds in the presence of xylene and ethylbenzene guest mixtures

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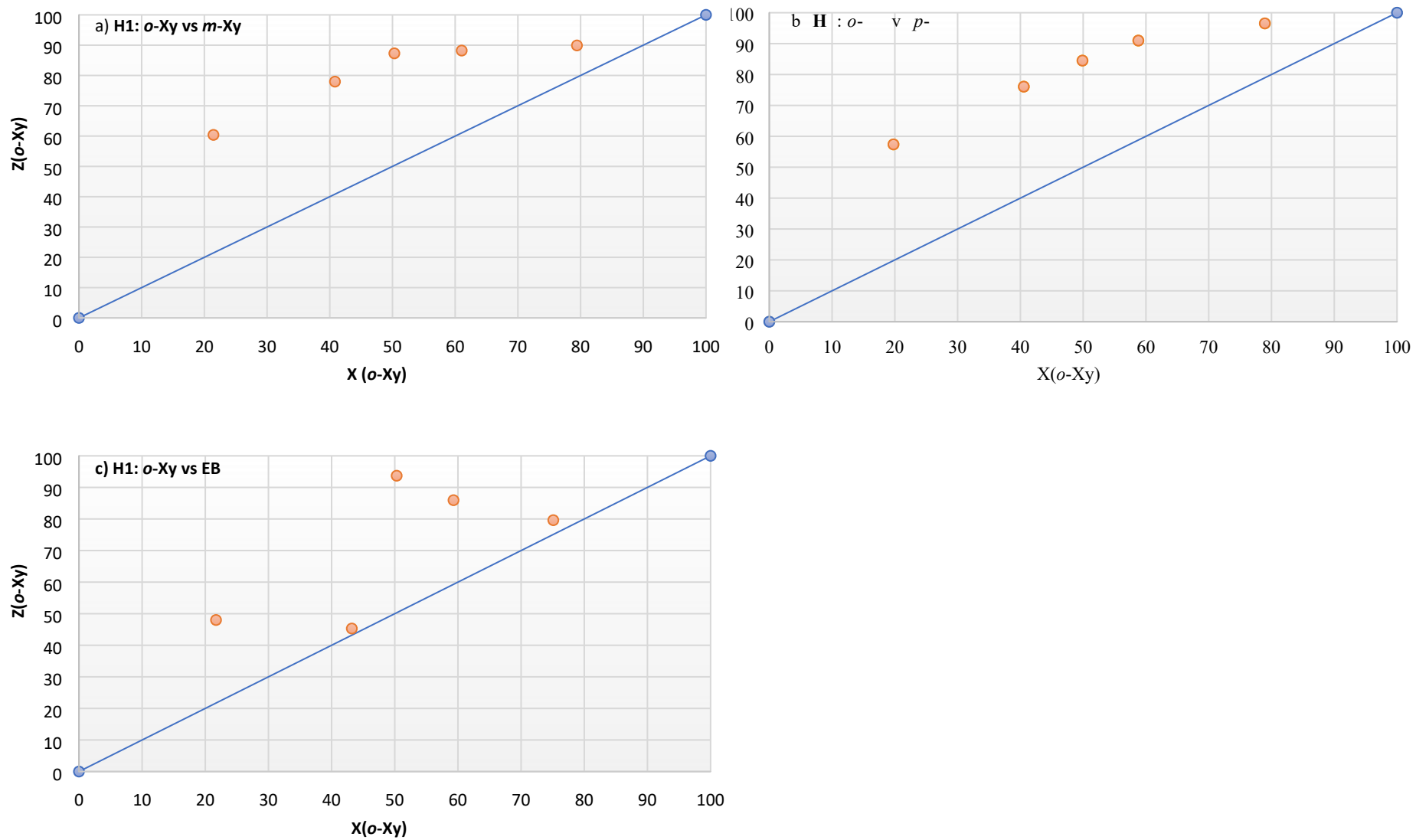
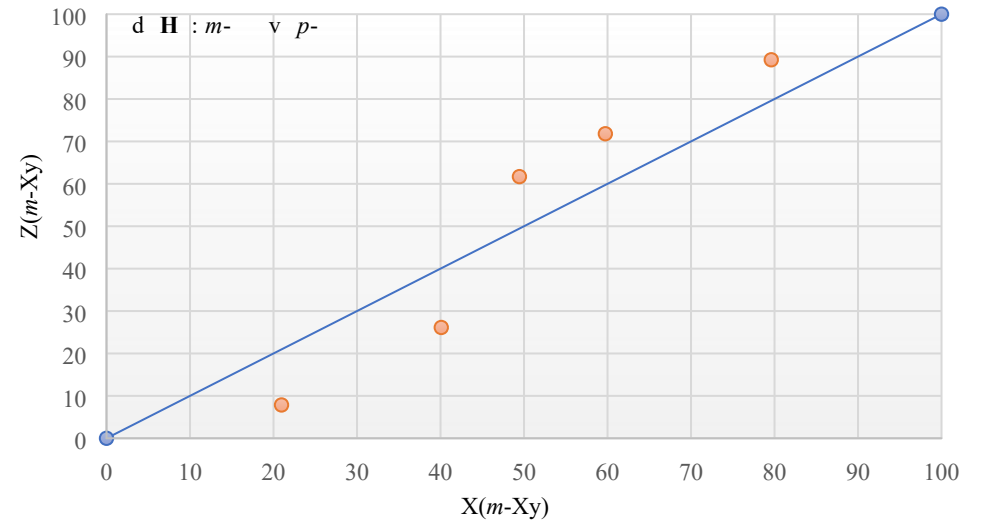
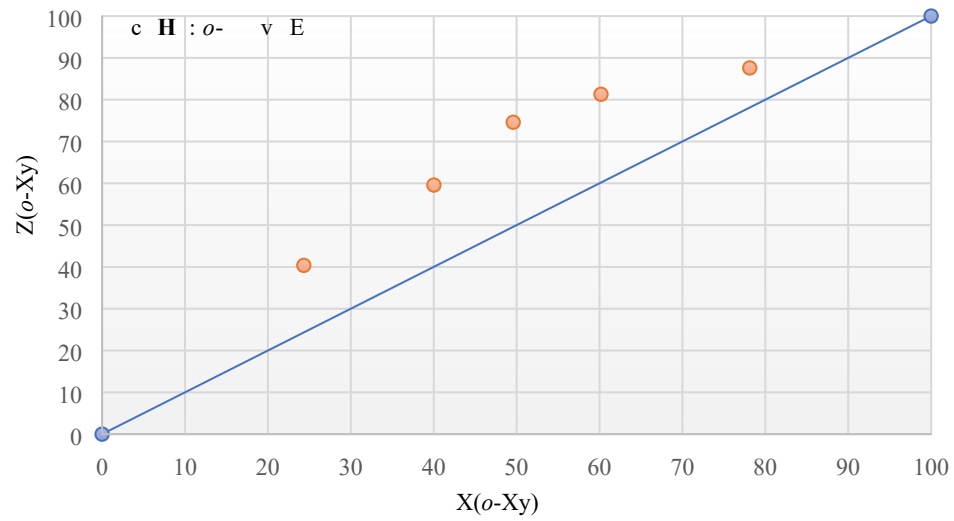
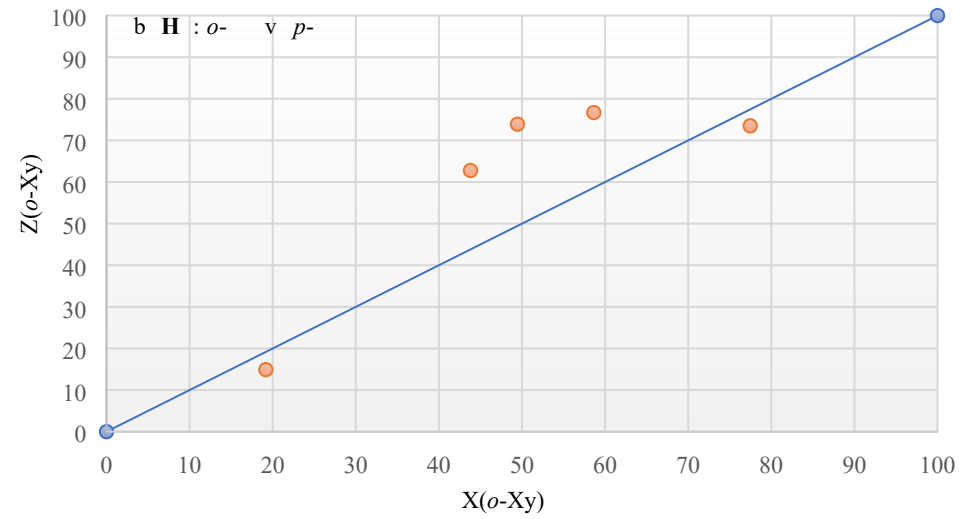
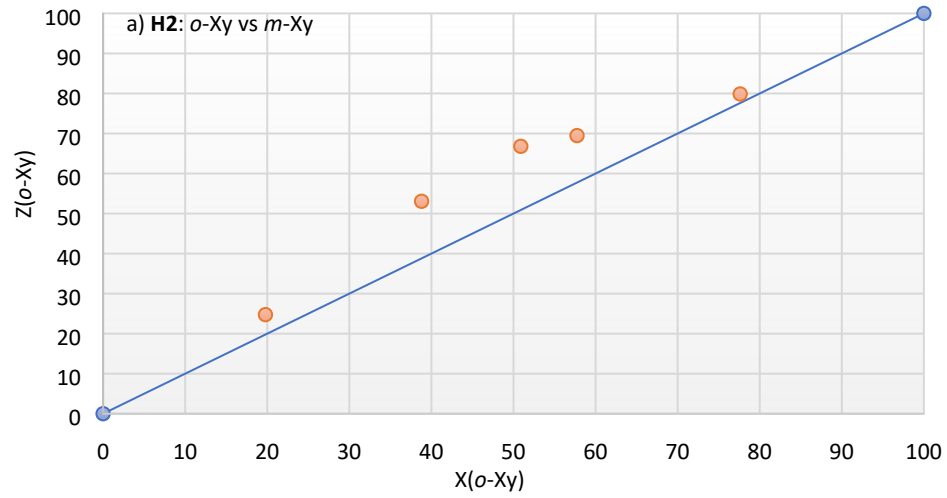


Fig. S1 Selectivity profiles of H1 when recrystallised from various a) *o*-Xy/*m*-Xy, b) *o*-Xy/*p*-Xy and c) *o*-Xy/EB binary guest mixtures; all other binary combinations did not furnish any crystals.



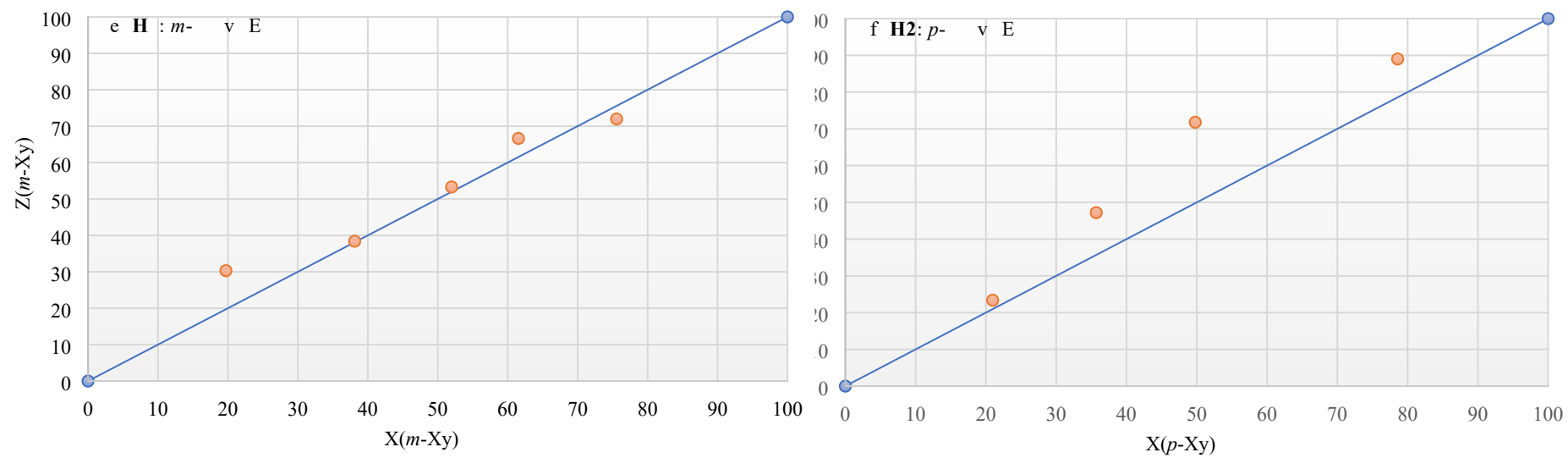
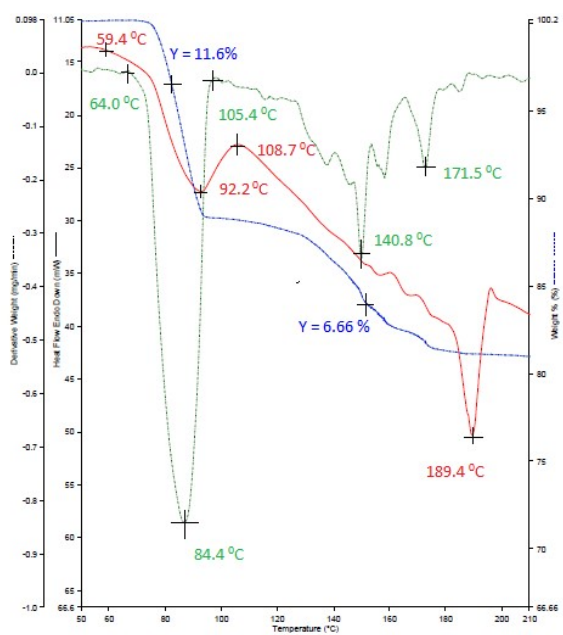
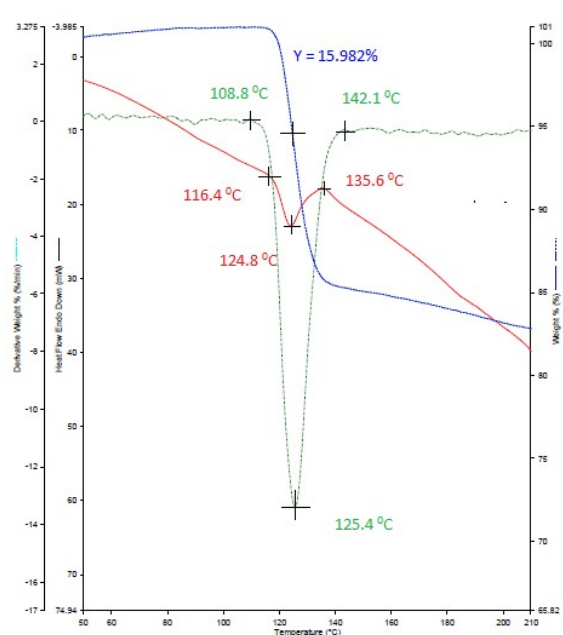


Fig. S2 Selectivity profiles of H₂ when recrystallised from a) *o*-Xy/*m*-Xy, b) *o*-Xy/*p*-Xy, c) *o*-Xy/EB, d) *m*-Xy/*p*-Xy, e) *m*-Xy/EB and f) *p*-Xy/EB binary guest mixtures where guest concentrations were sequentially varied.

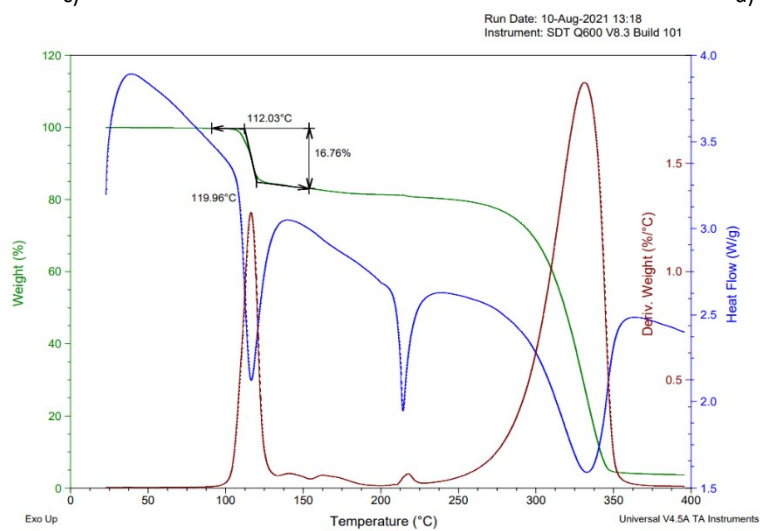
a)



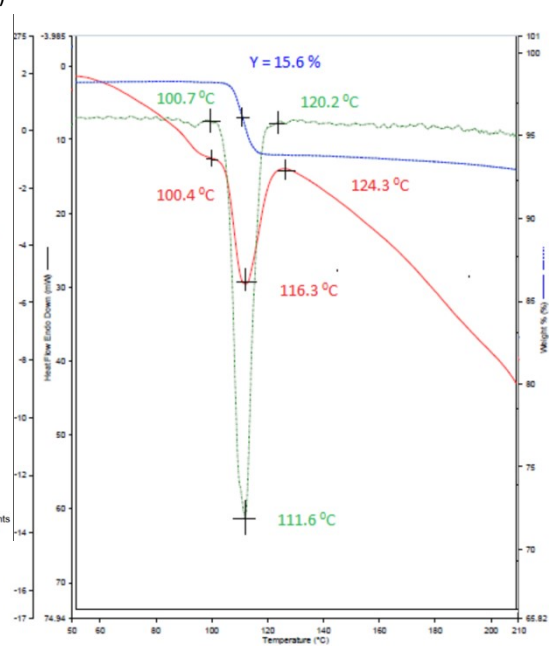
b)



c)



d)



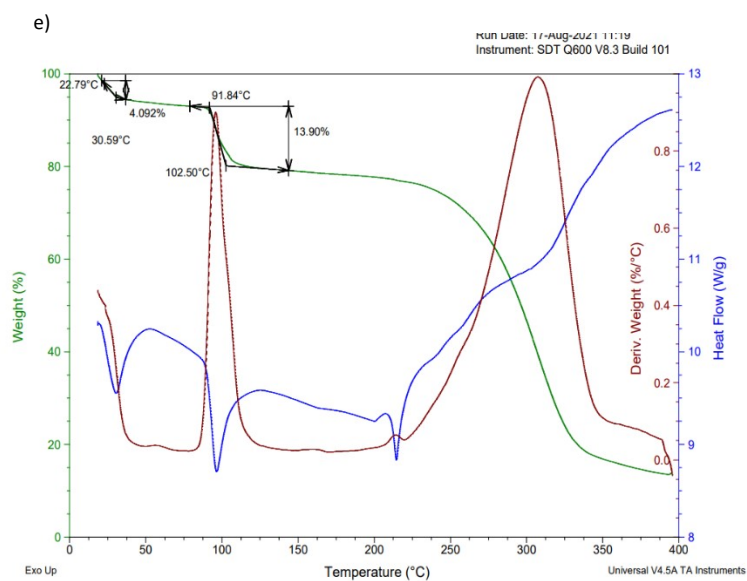


Fig. S3 Overlaid DSC (red), TG (blue) and DTG (green) traces for a) **H1-*o*-Xy**, b) **H2-*o*-Xy**, c) **H2-*m*-Xy**, d) **H2-*p*-Xy** and e) **H2-EB**.