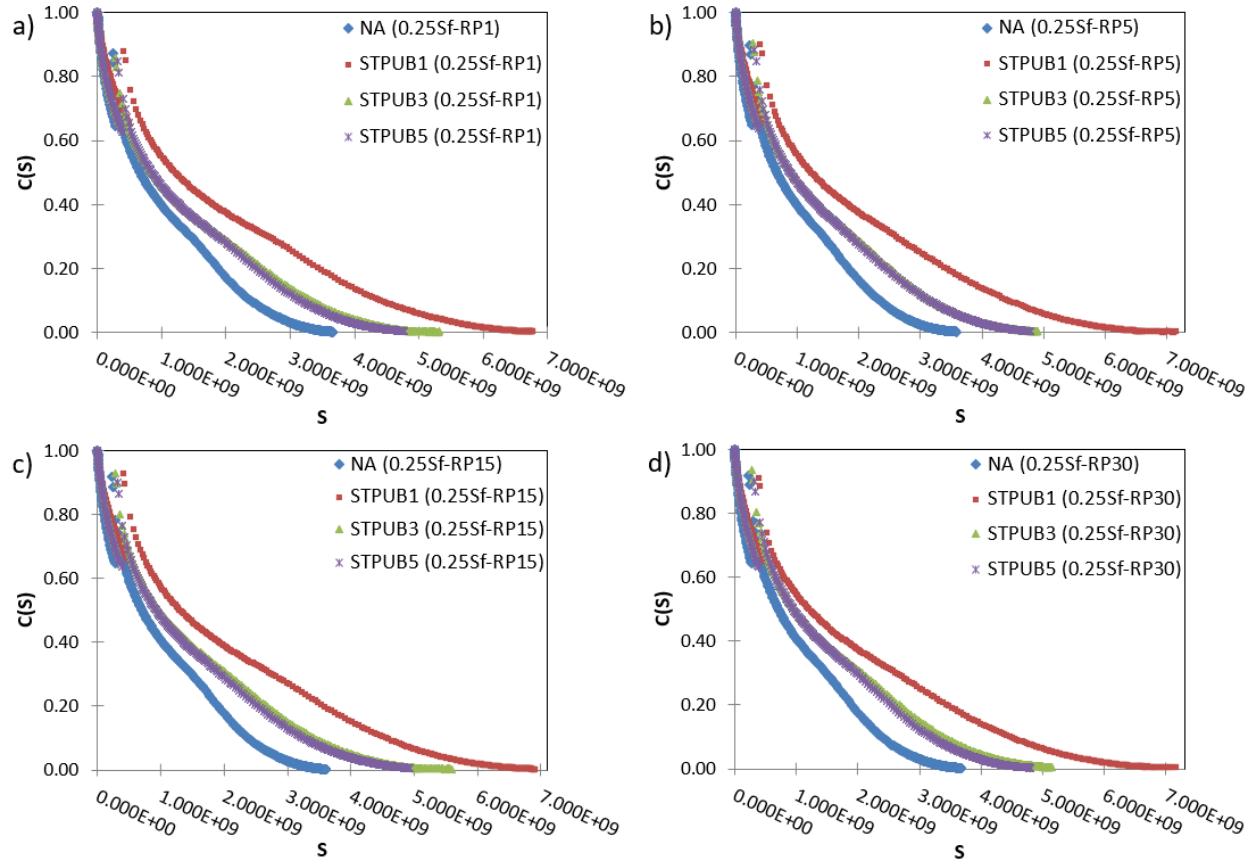
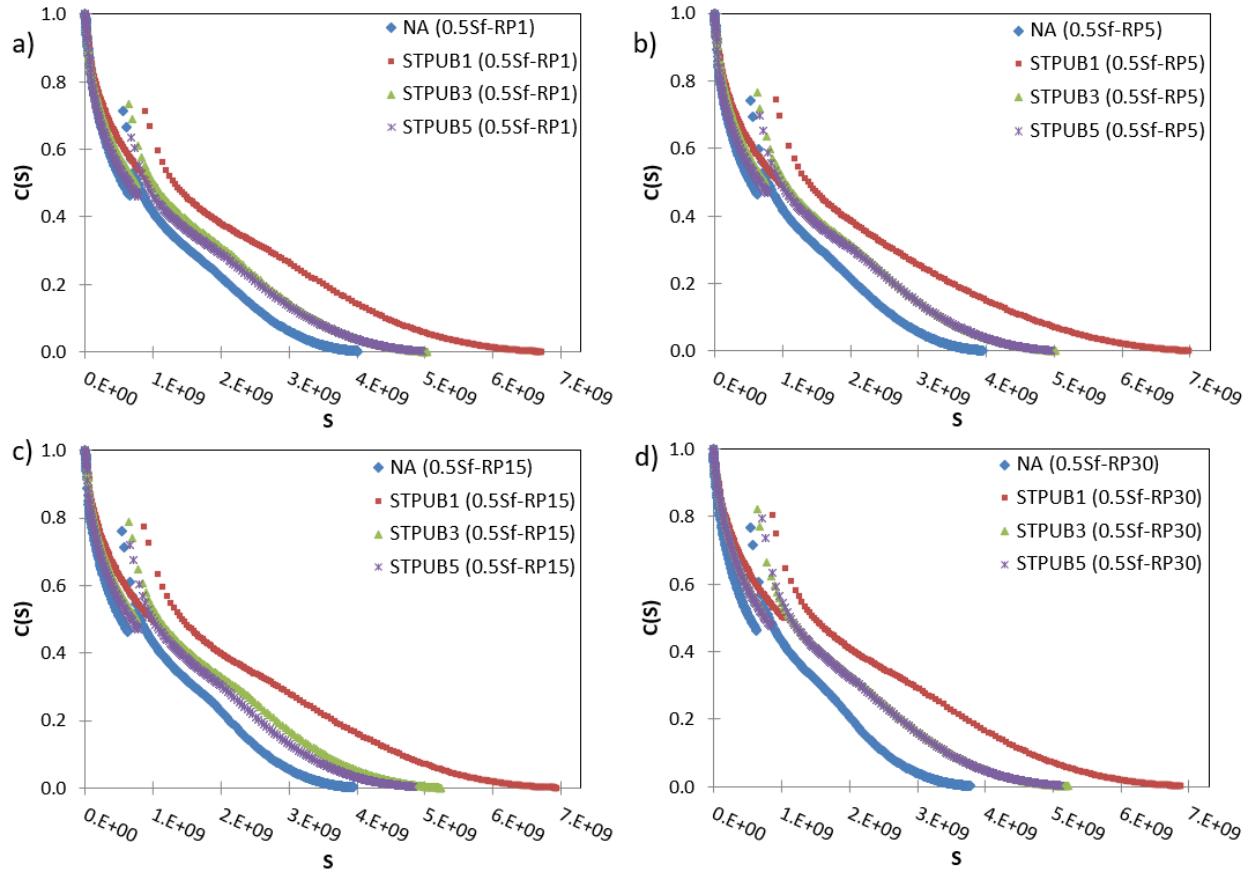


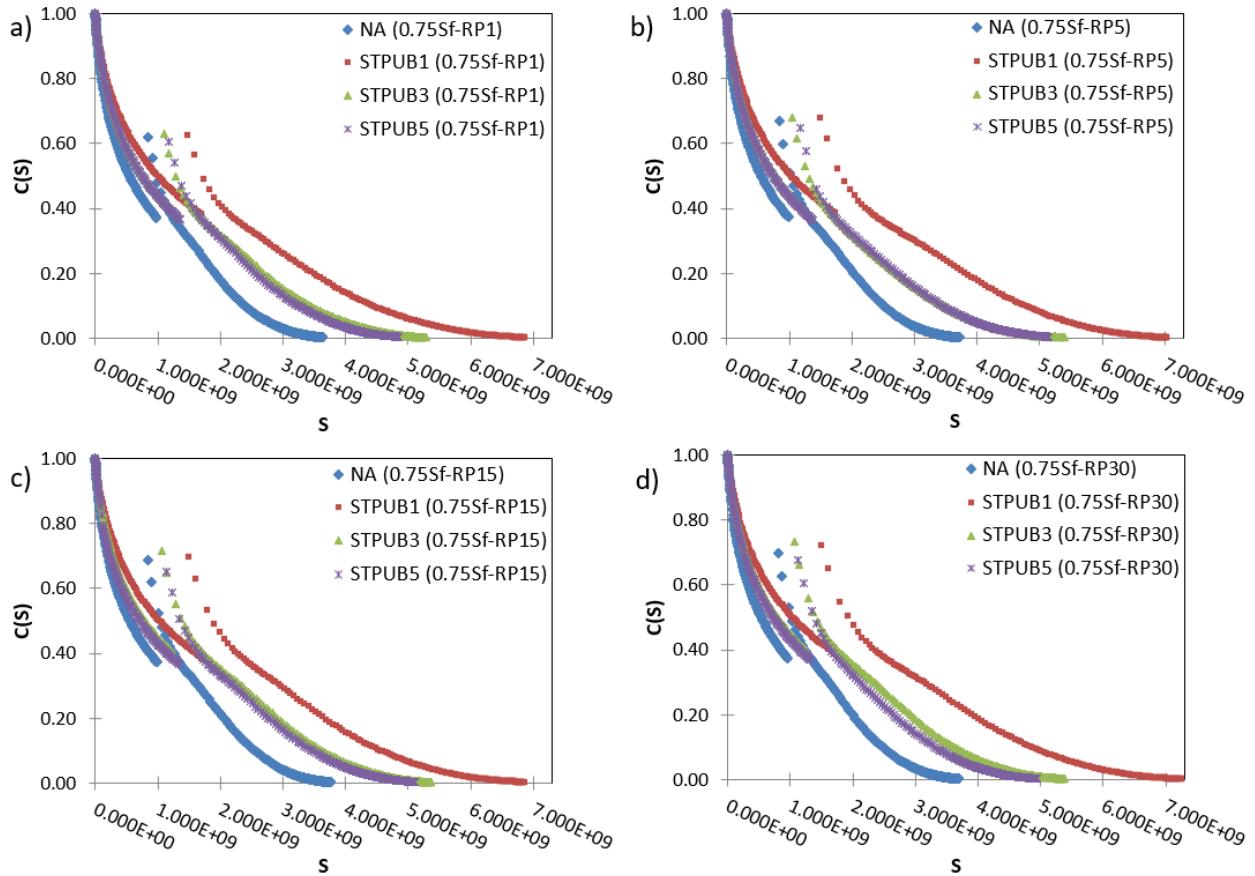
## Supplementary files



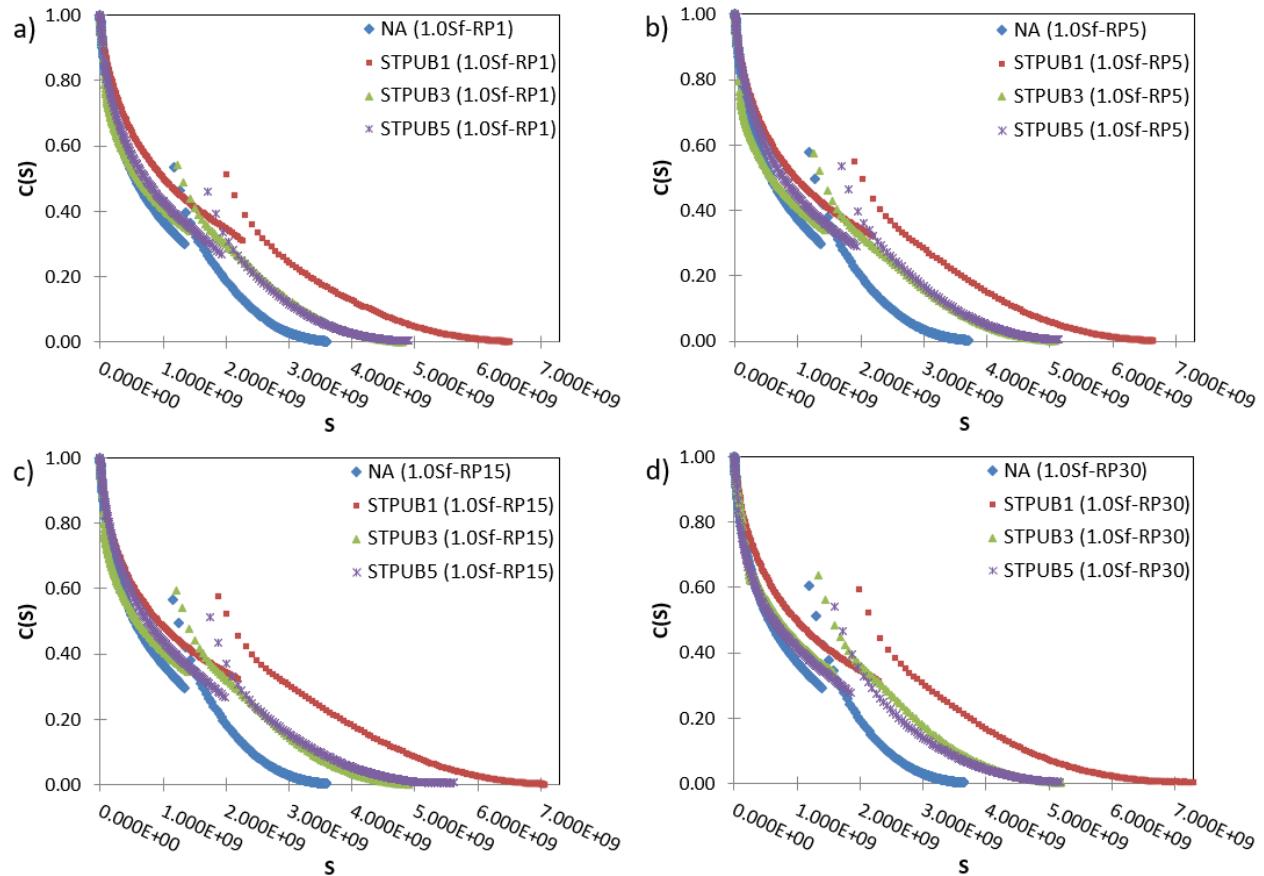
**Figure S1.** DCCs related to all bitumens at 25% of  $S_f$ : (a) RP1; (b) RP5; (c) RP15; (d) RP30.



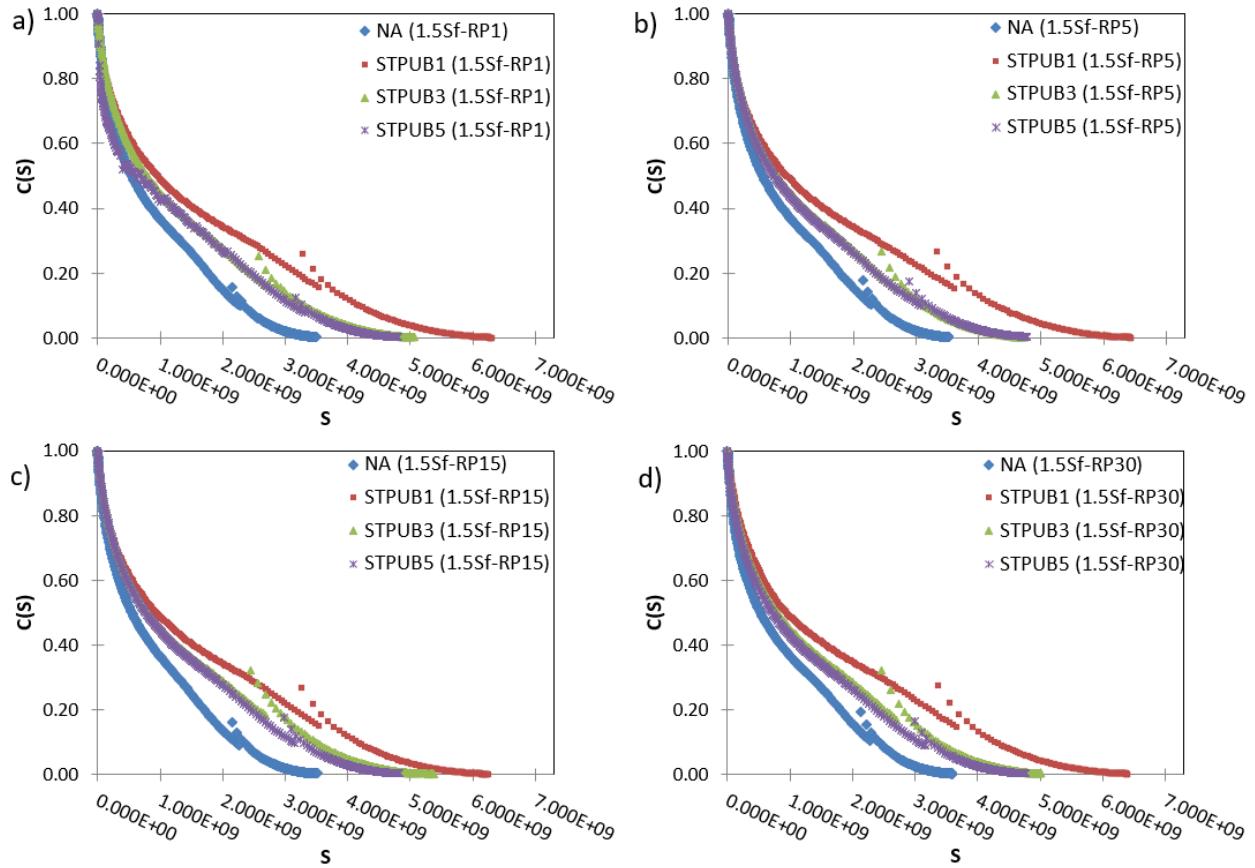
**Figure S2.** DCCs related to all bitumens at 50% of  $S_f$ : (a) RP1; (b) RP5; (c) RP15; (d) RP30.



**Figure S3.** DCCs related to all bitumens at 75% of  $S_f$ : (a) RP1; (b) RP5; (c) RP15; (d) RP30.



**Figure S4.** DCCs related to all bitumens at 100% of  $S_f$ : (a) RP1; (b) RP5; (c) RP15; (d) RP30.



**Figure S5.** DCCs related to all bitumens at 150% of  $S_f$ : (a) RP1; (b) RP5; (c) RP15; (d) RP30.