











Figure 12 TFD by varying number of rotatable bonds: (a) Case 1: lowest energy conformations found by either BOA or uniform random search is used as reference conformations. It should also be noted that there is a small sample size for molecules with one and two rotatable bonds, 6 and 10 molecules, respectively. (b) Case 2: lowest energy conformations found by Confab is used as reference conformations. Note there were only two molecules with two rotatable bonds. It can be seen that BOA with either El or LCB outperformed uniform search. As in Fig. 11, it is notable that BOA performed as well as Confab despite tending to use orders of magnitude fewer iterations.