Doering and co-workers reported the pyrolysis of deuterium labelled racemic cis- and trans-2-cyano-1-(E)-propenyl-cyclobutanes S-1 and S-2, which gave the product distribution shown in Figure SI. Once again, products stemming from the two suprafacial rearrangement pathways were dominant. Heating S-1 gave 74% of suprafacial rearrangement products (including 27% of disallowed sr product S-4), while heating S-2 gave 79% of suprafacial rearrangement products (including 66% of disallowed sr product S-8).

Figure SI. BBAH analysis of 2-cyano-1-(E)-propenylcyclobutanes S-1 and S-2.