3-spin TOCSY1D Transfer Example
UNITY-500 data
Sonya McKay - 1H 1d
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1H 1d

system, with two rotamers?
TOCSY 1D selections

transfers at optimum mix times

5.8 5.6 5.4 5.2 5.0 4.8 4.6 4.4 4.2 4.0 3.8 3.6 3.4 3.2 3.0 ppm
Transfer to-and-back at ~ 90 ms at ~ 1/2J (J~6 Hz)
Because TOCSY peaks oscillate in magnitude, do not trust the absence of a peak from a single experiment with one mix time as strong evidence for lack of coupling.

- TOCSY should be run with at least 2 mix times.
- Do not use mix times that are exact multiples of each other.

The diagonal in 2D-TOCSY, and the starting multiplet in 1D-TOCSY can disappear completely (is a function of mix time).