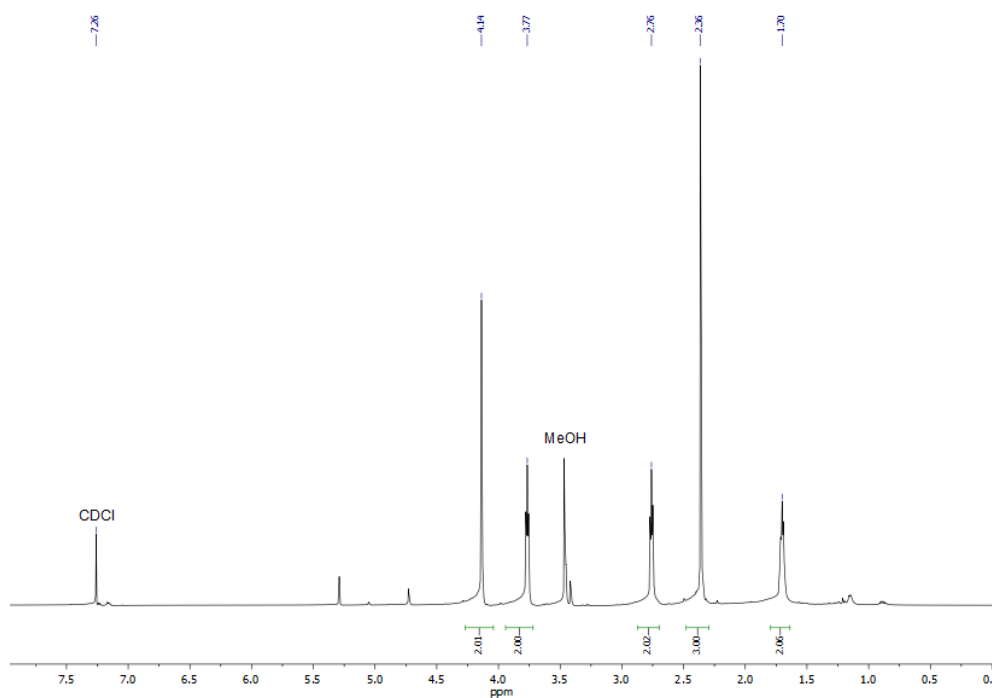


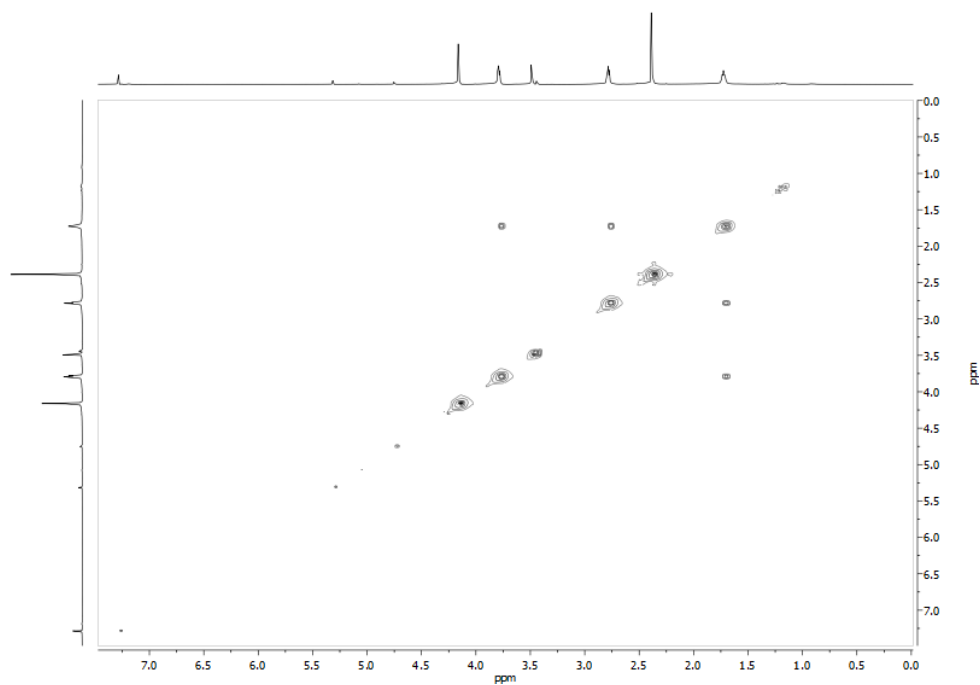
Symmetry controlled excited state dynamics – Supporting Information

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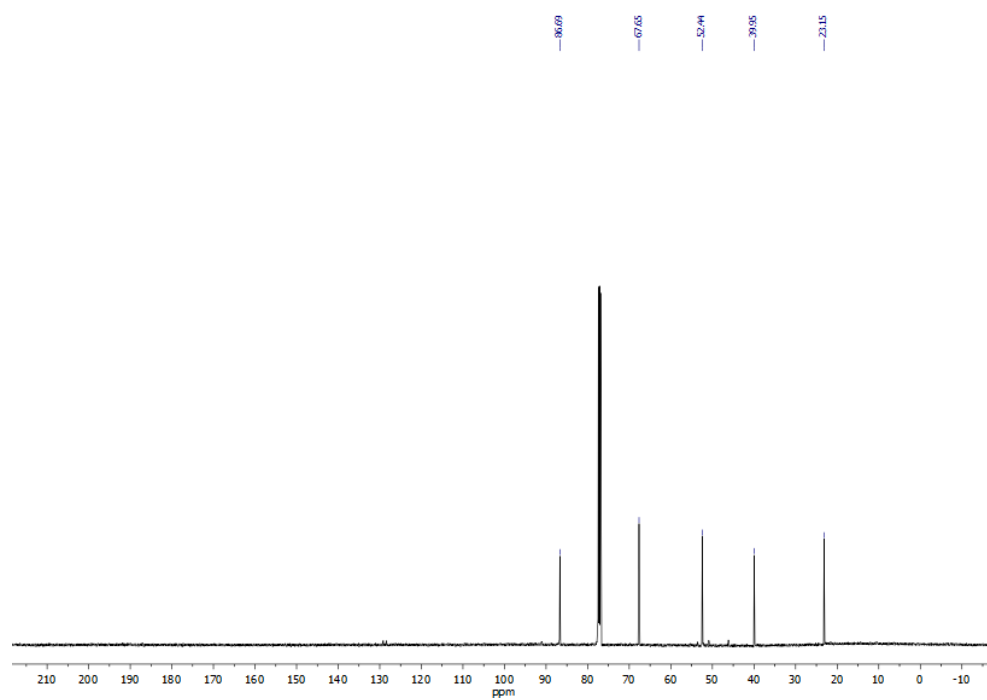
October 15, 2018



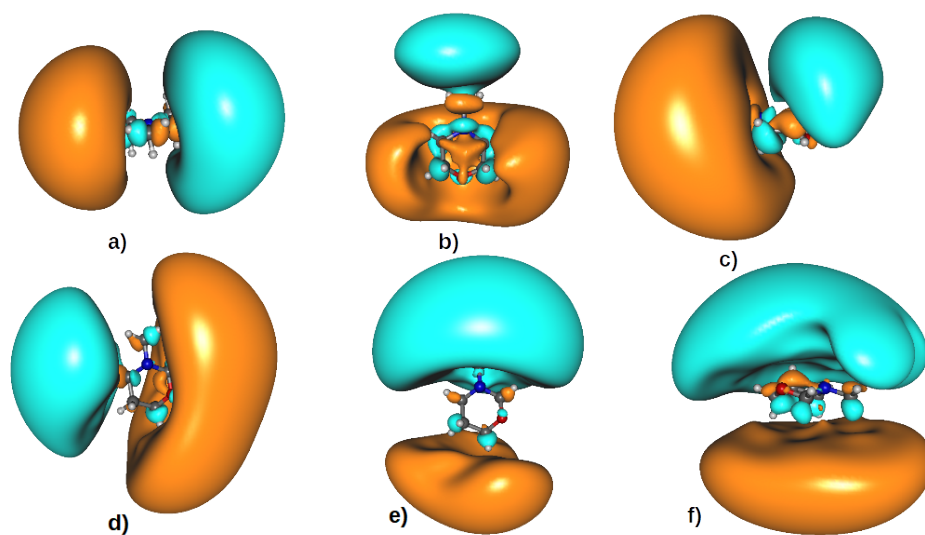
**Figure 1<sup>†</sup>:** Proton NMR spectrum of N-methyl isomorpholine (NMI)



**Figure 2<sup>†</sup>:** COSY spectrum of NMI



**Figure 3<sup>†</sup>:** Carbon NMR spectrum of NMI



**Figure 4<sup>†</sup>:** 3p molecular orbitals for NMM and NMI where a) is the  $3p_x$  of NMM, b) is the  $3p_y$  of NMM, c) is the  $3p_z$  of NMM, d) is the  $3p_x$  of NMI, e) is the  $3p_y$  of NMI and f) is the  $3p_z$  of NMI.