Supporting Information

Comparison of the Chemistry of $ClCH_2CH(CH_3)OH$ and $ClCH_2CH_2CH_2OH$ on Cu(100) and O/Cu(100)

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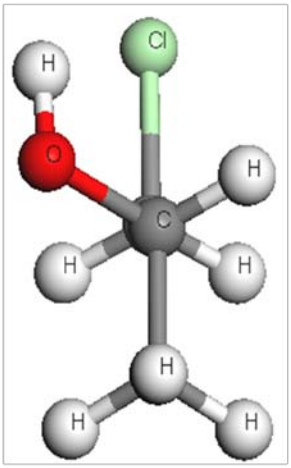
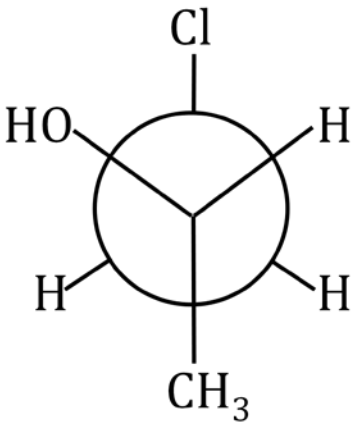
Scheme S1





The g,g’-conformer of $ClCH_2CH(CH_3)OH$

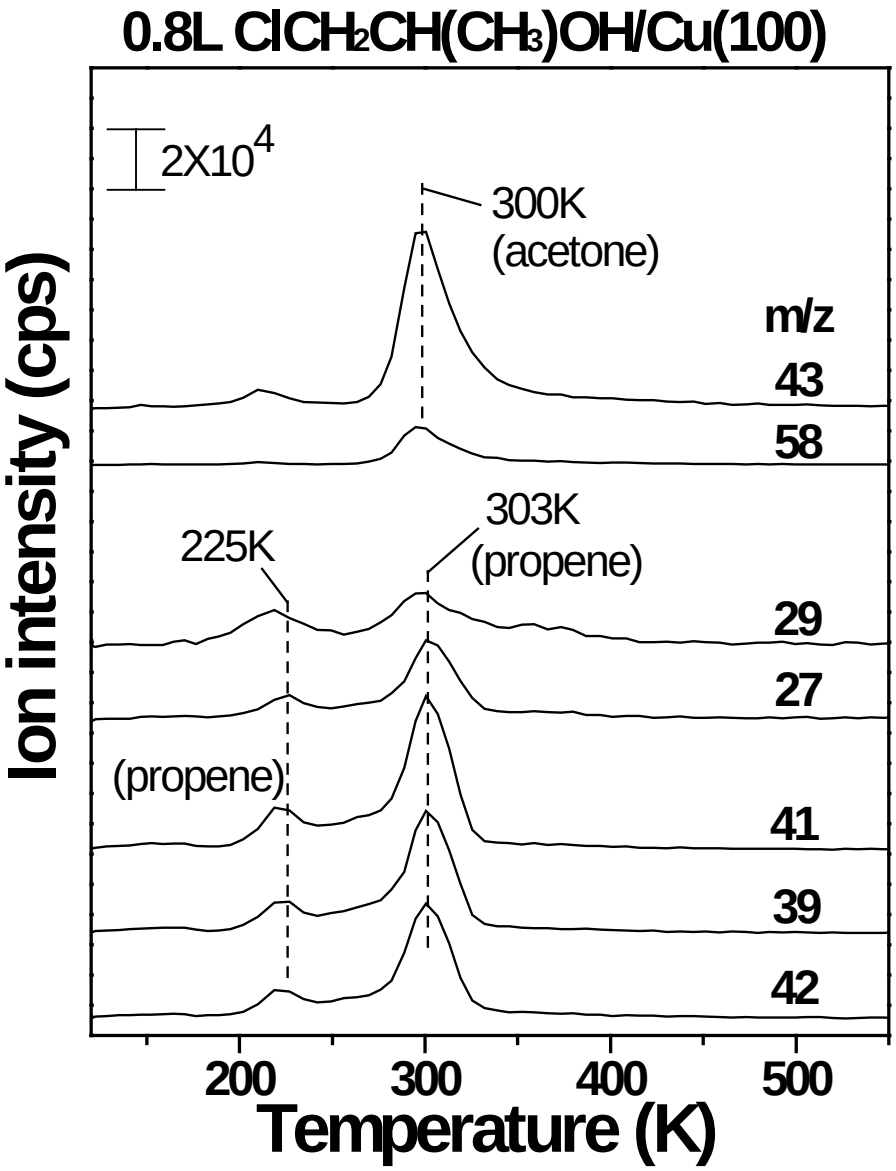


Figure S1. TPR/D spectra showing the evolution of propene and acetone on the basis of the fragmentation patterns.

$ClCH_2CH(CH_3)OH/Cu(100)$

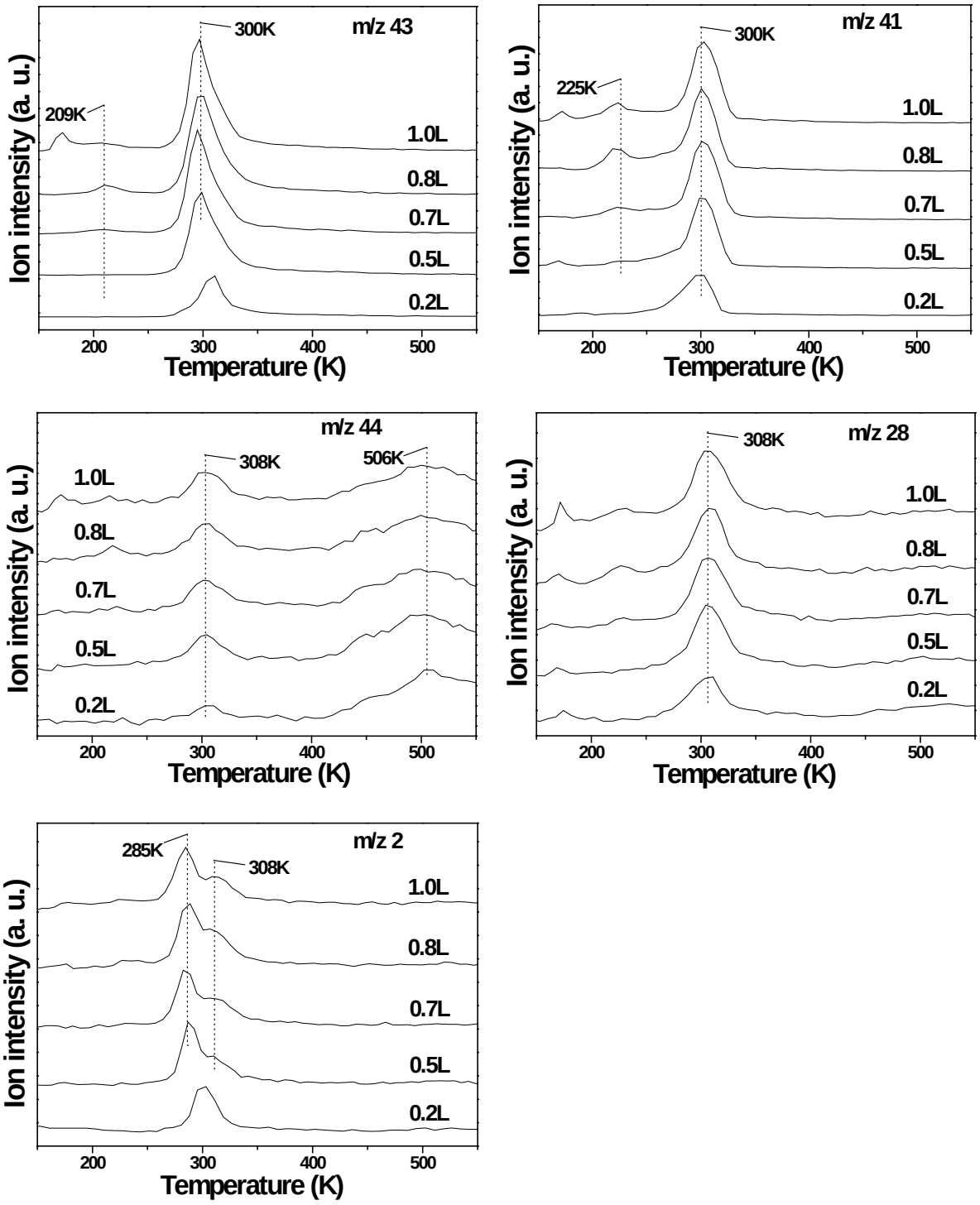


Figure S2. TPR/D spectra of $ClCH_2CH(CH_3)OH/Cu(100)$ at different exposures.

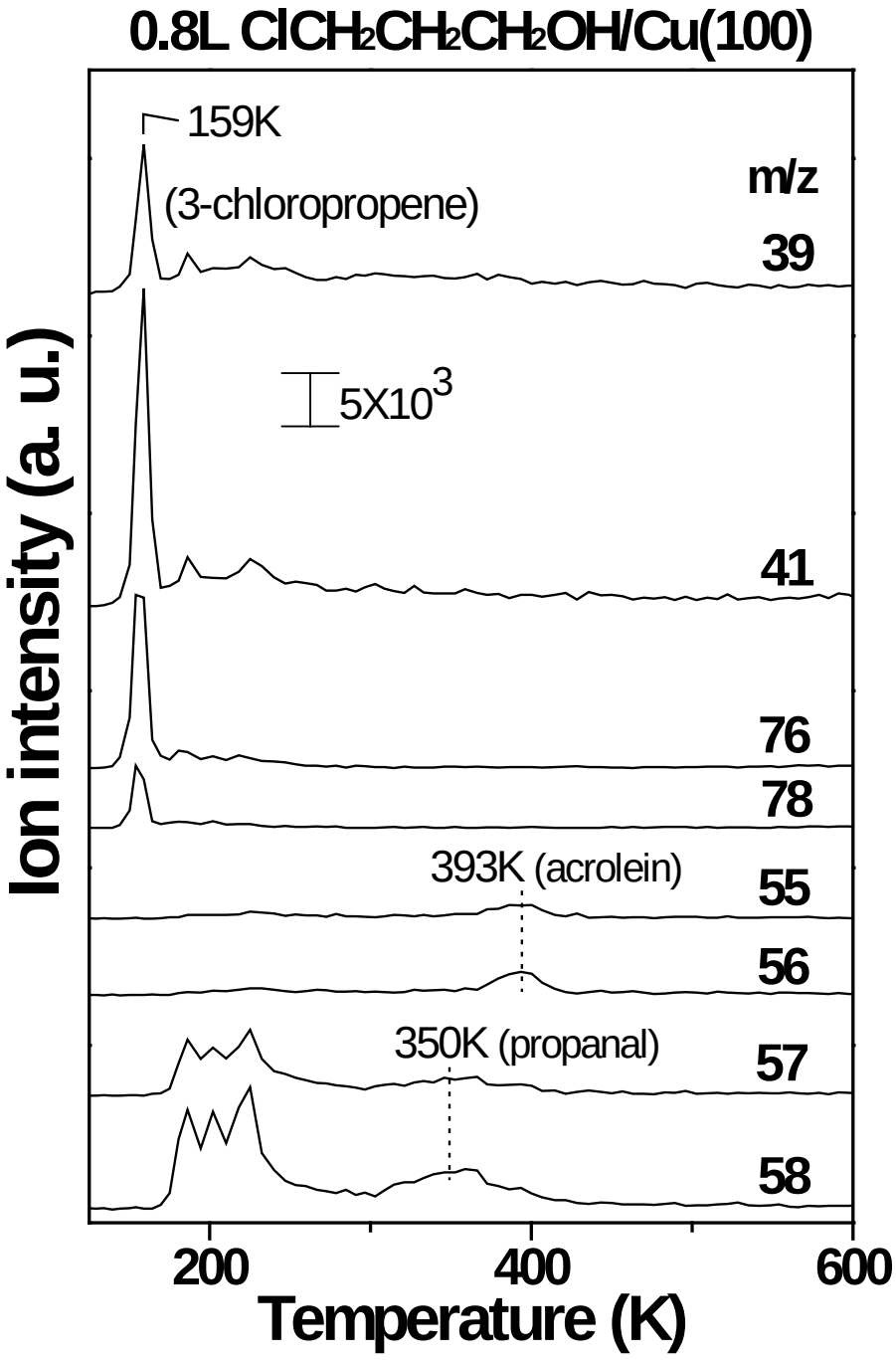


Figure S3. Temperature-programmed reaction/desorption spectra of 0.8 L 3-chloro-1-propanol on Cu(100).

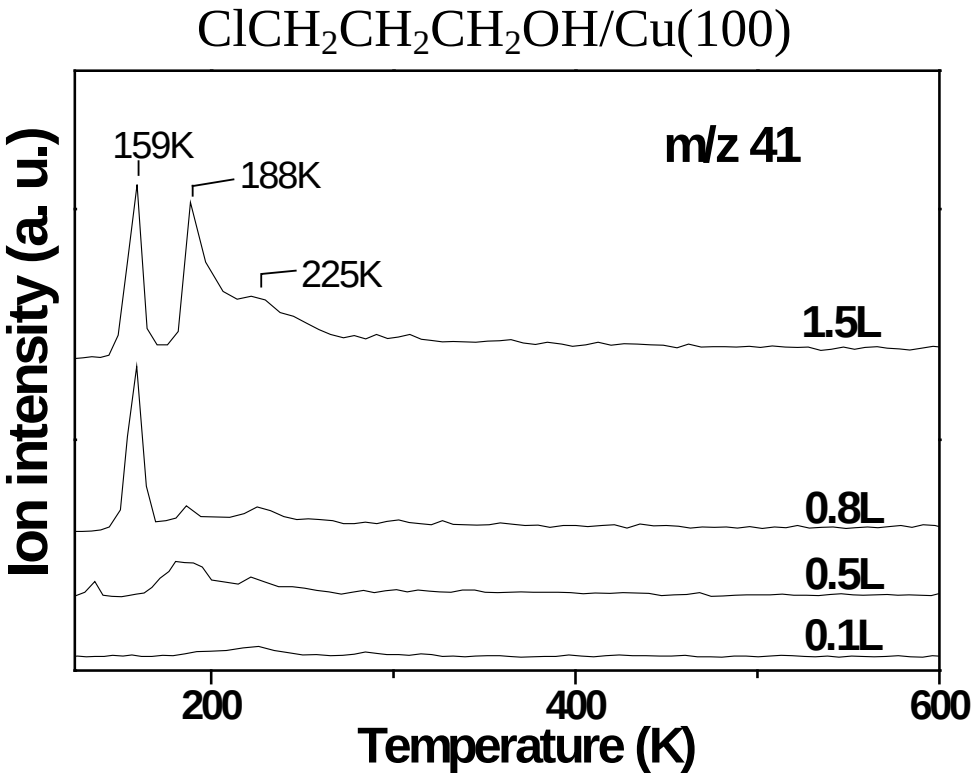


Figure S4. Temperature-programmed reaction/desorption spectra of 3-chloro-1-propanol on Cu(100) at different exposures, showing the formation of 3-chloro-1-propene at 159K.