**Supporting information for**

**Photodissociation Dynamics of Xylene Isomers C6H4(CH3)2 at 157 nm using an Ultracompact Velocity Map Imaging Spectrometer – The C7H7 Channel.**

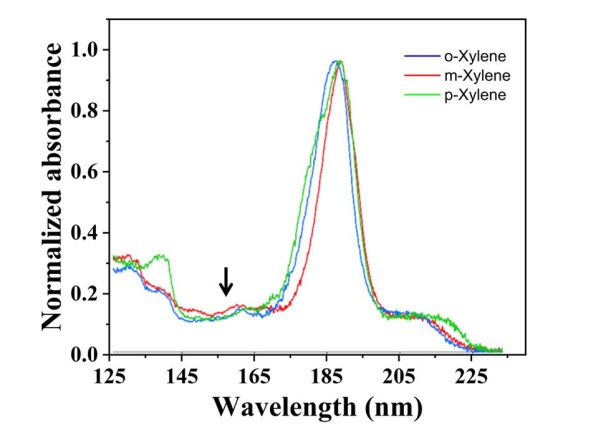
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Figure S1: VUV absorption spectra of three xylene isomers C6H4(CH3)2 from reference 1. The notation of each isomer is displayed in the right corner. The black arrow indicates the excitation wavelength used in the current photodissociation experiment.

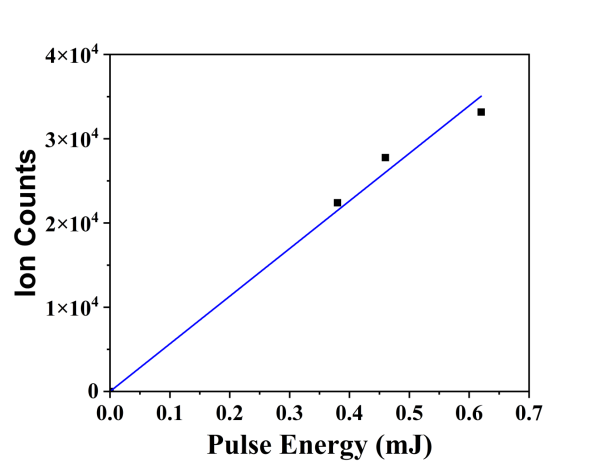


Figure S2: Total C7H7+ (m/z = 91) ion counts as a function of laser pulse energy in the photodissociation of o-xylene at 157 nm. The straight line represents the linear fit through the origin of the total ion counts at different pulse energies.

References

[1] P. Johnson, GC/VUV: A novel tool for the identification and quantitation of gas-phase analytes, Labcompare (2018).