



Supplement of

Development of a new methane tracer: kinetic isotope effect of $^{13}\text{CH}_3\text{D} + \text{OH}$ from 278 to 313 K

L. M. T. Joelsson et al.

Correspondence to: M. S. Johnson (msj@kiku.dk)

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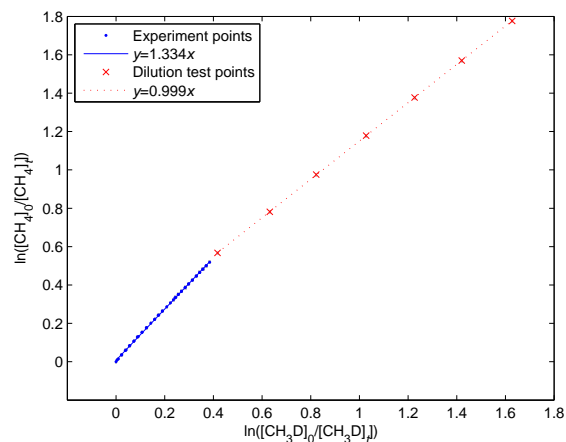


Figure S1: A typical experiment plot (Experiment 5). Experimental data are shown using points. A linear fit of the experimental points is shown using a solid line and the subsequent dilution test points are represented by 'x' symbols. A linear fit of the dilution test fit are represented by a dotted line, uncertainties for each point are represented by grey areas.

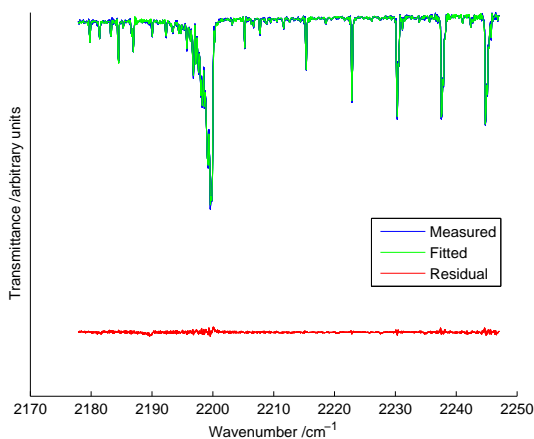


Figure S2: A typical spectral fit in the region where $[\text{CH}_3\text{D}]$ is obtained (Experiment 5). Experimental data are shown using a blue line, fitted spectra are shown using a green line, and the residual is shown using a red line.

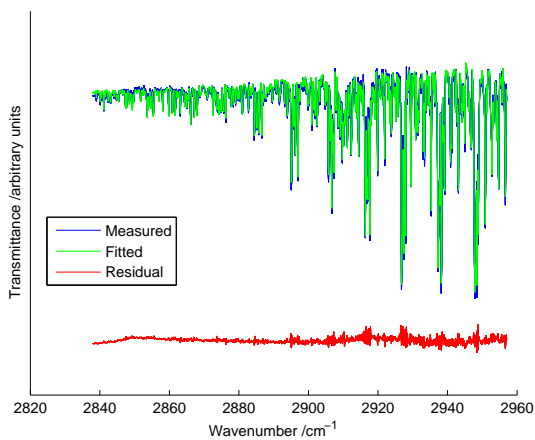


Figure S3: A typical spectral fit in the region where $[\text{CH}_4]$ is obtained (Experiment 5). Experimental data are shown using a blue line, fitted spectra are shown using a green line, and the residual is shown using a red line.

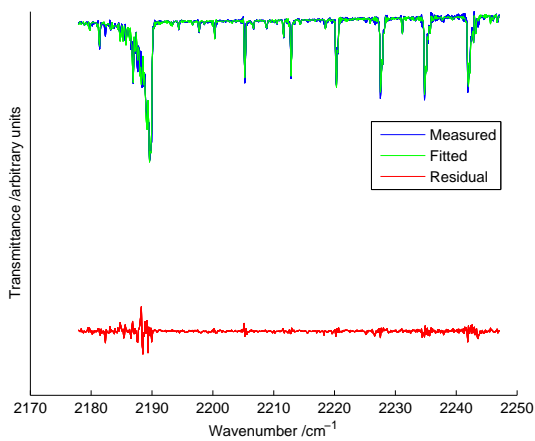


Figure S4: A typical spectral fit in the region where $^{13}\text{CH}_3\text{D}$ is obtained (Experiment 10). Experimental data are shown using a blue line, fitted spectra are shown using a green line, and the residual is shown using a red line.