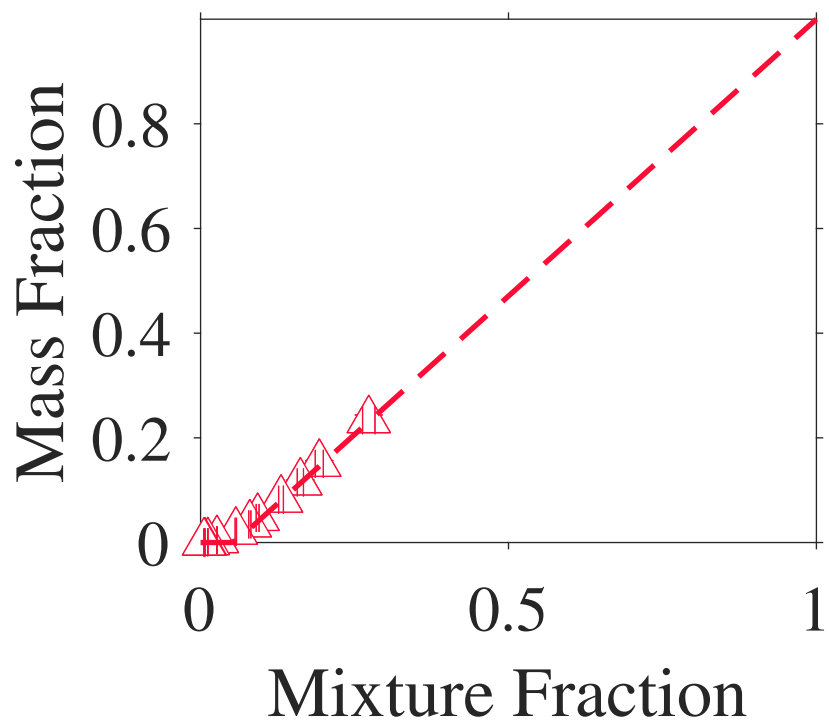
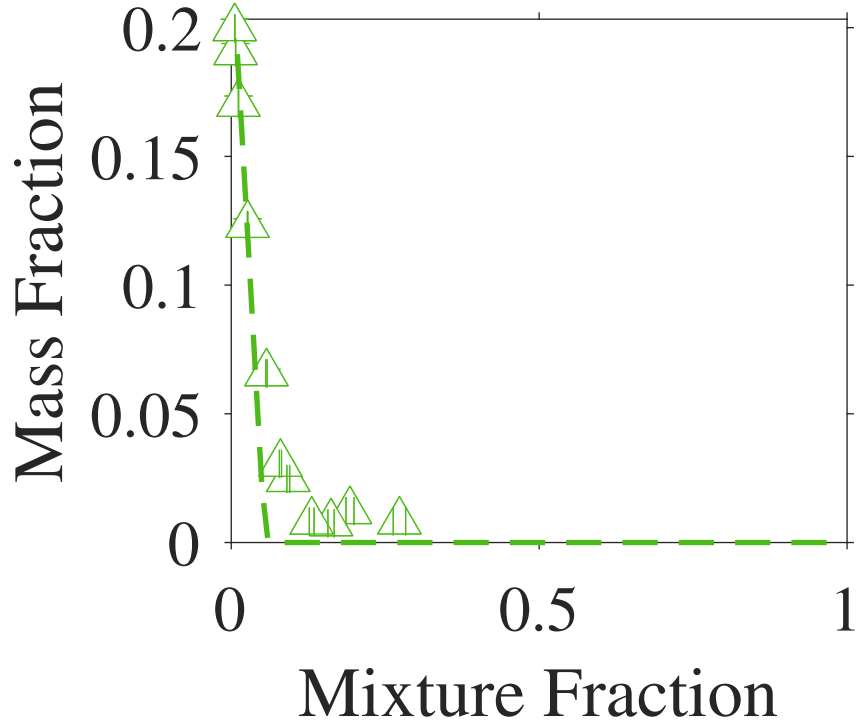


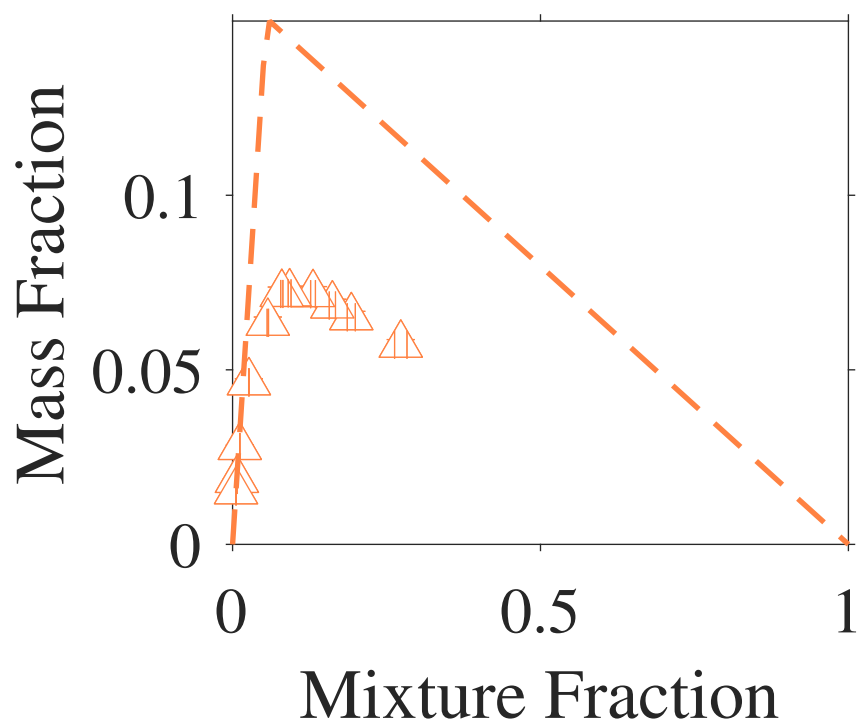
Methane



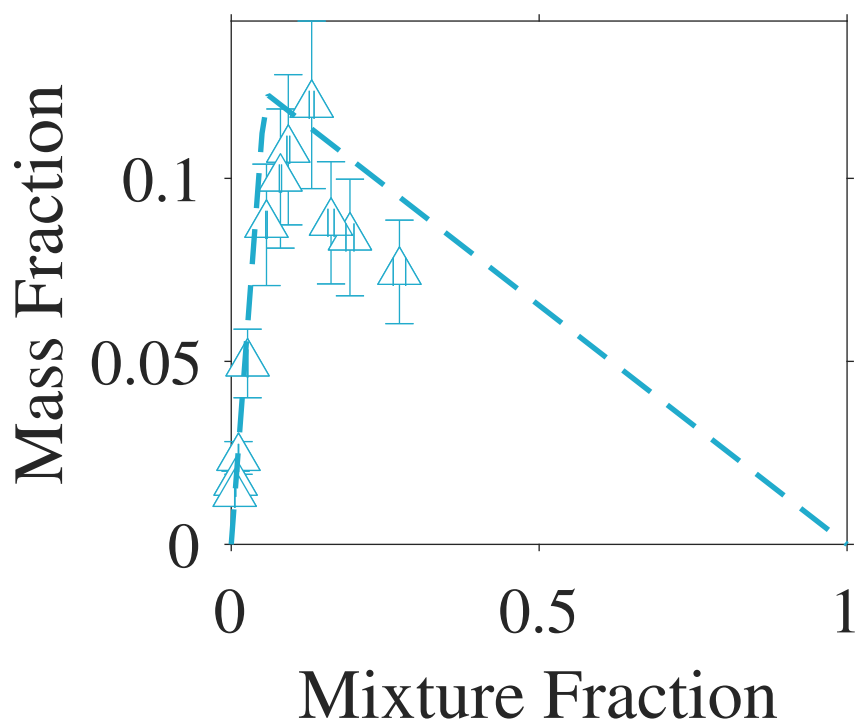
Oxygen



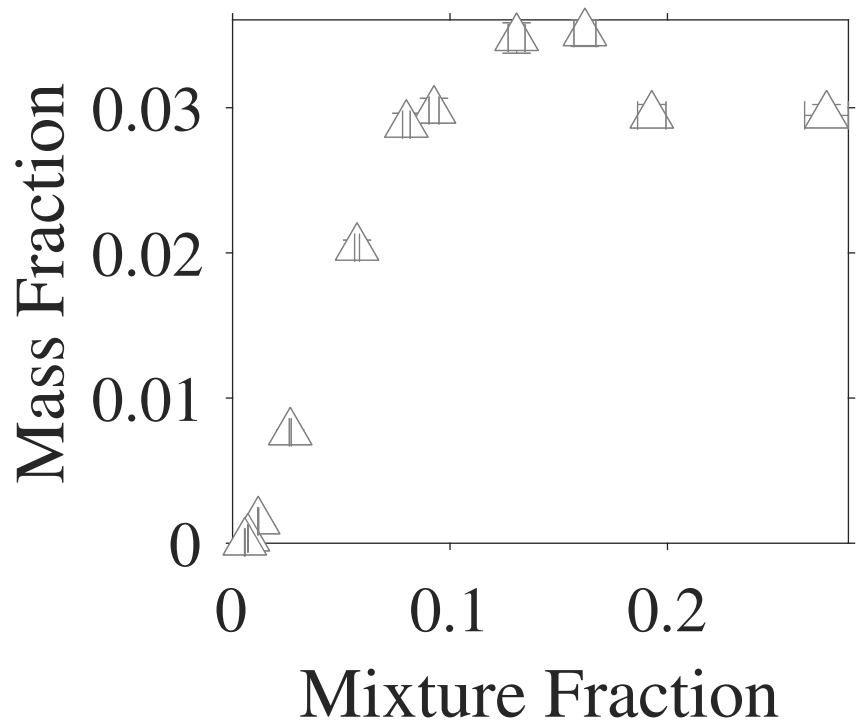
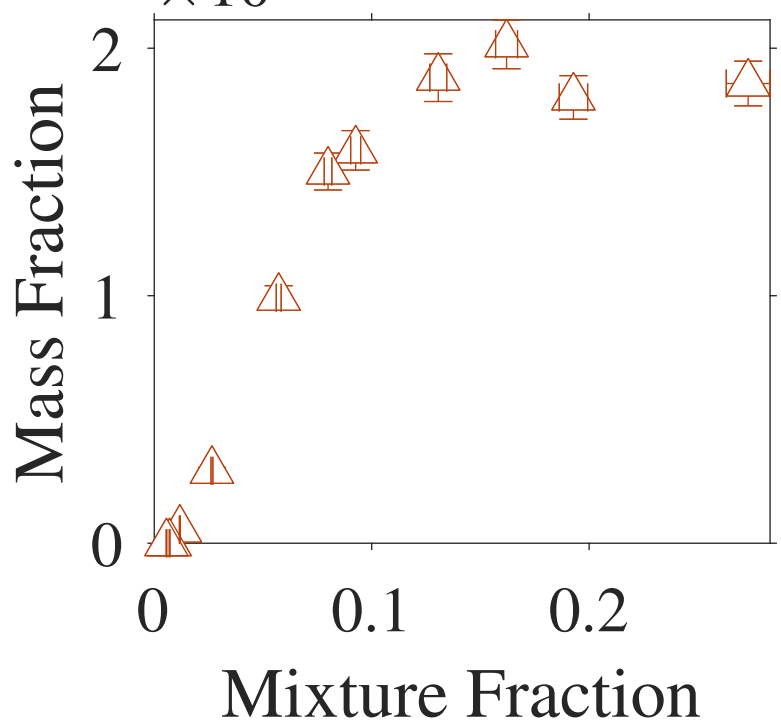
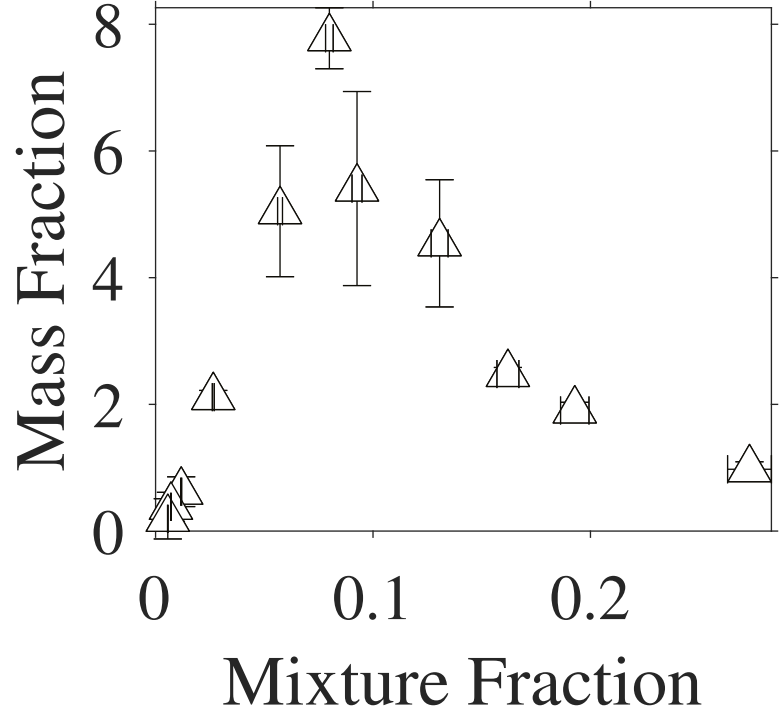
Carbon Dioxide



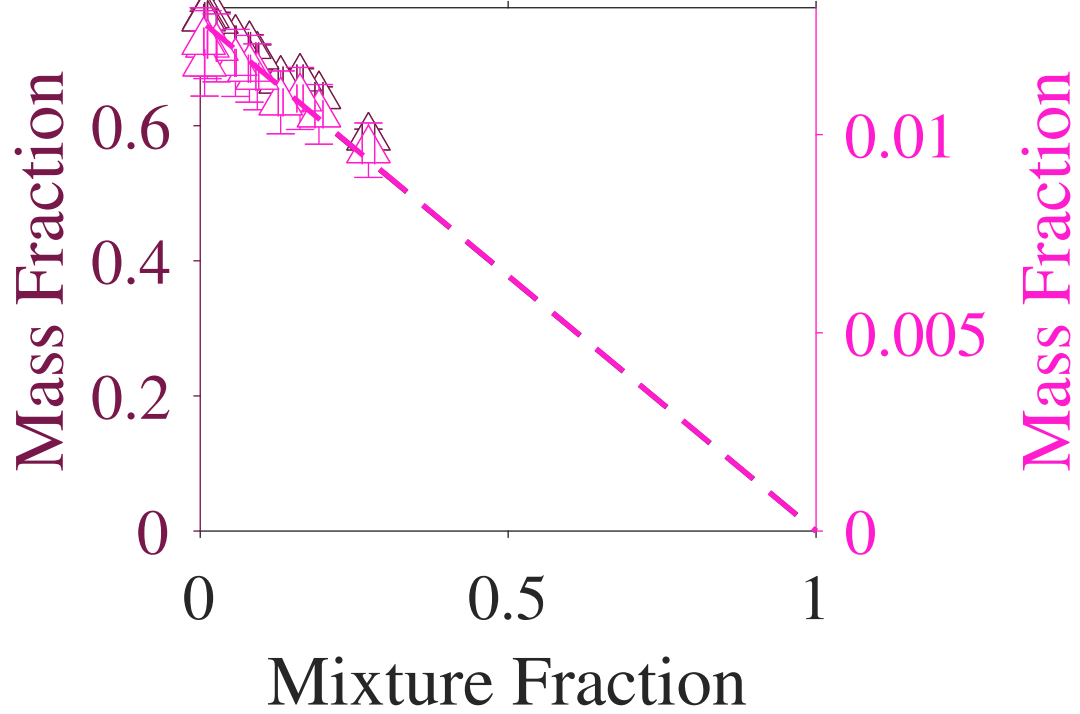
Water



Carbon Monoxide

 $\times 10^{-3}$ Hydrogen $\times 10^{-4}$ Soot

Nitrogen and Argon



Experimental Data with Error



Mass Fractions of Species at the Centerline as a function of Mixture Fraction