Supporting Information

To Accompany

Production of Carboxylic Acids from Aldehydes under Hydrothermal Conditions: A Kinetics Study of Benzaldehyde

Kristopher M. Fecteau[a,*], Ian R. Gould[a], Christopher R. Glein[b], Lynda B. Williams[b], Hilairy E. Hartnett[a,b], and Everett L. Shock[a,b]

[a]School of Molecular Sciences, Arizona State University, Tempe, AZ 85287, USA
[b]School of Earth and Space Exploration, Arizona State University, Tempe AZ 85287, USA

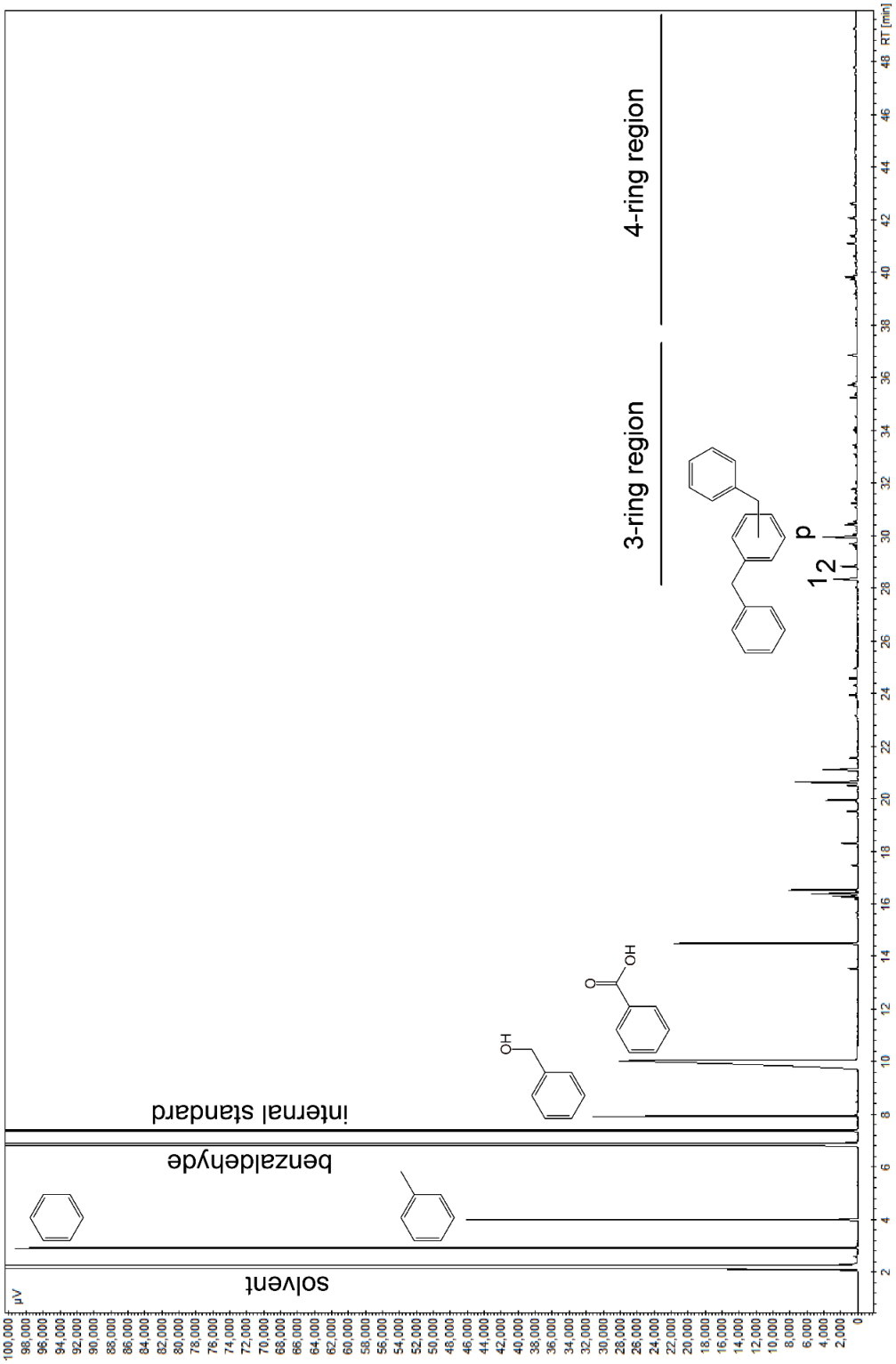

Figure S1. Typical chromatogram from benzaldehyde experiments (300°C, 0.1 molal starting concentration, 453 hours). Selected peaks are labeled with the structure of the analyte; isomers of dibenzylbenzene are labeled as dibenzylbenzene-1, dibenzylbenzene-2, or *p*-dibenylbenzene (*i.e.*, 1,4-dibenzylbenzene) corresponding to Table 8. Approximate three-ring and four-ring regions are indicated with horizontal bars.

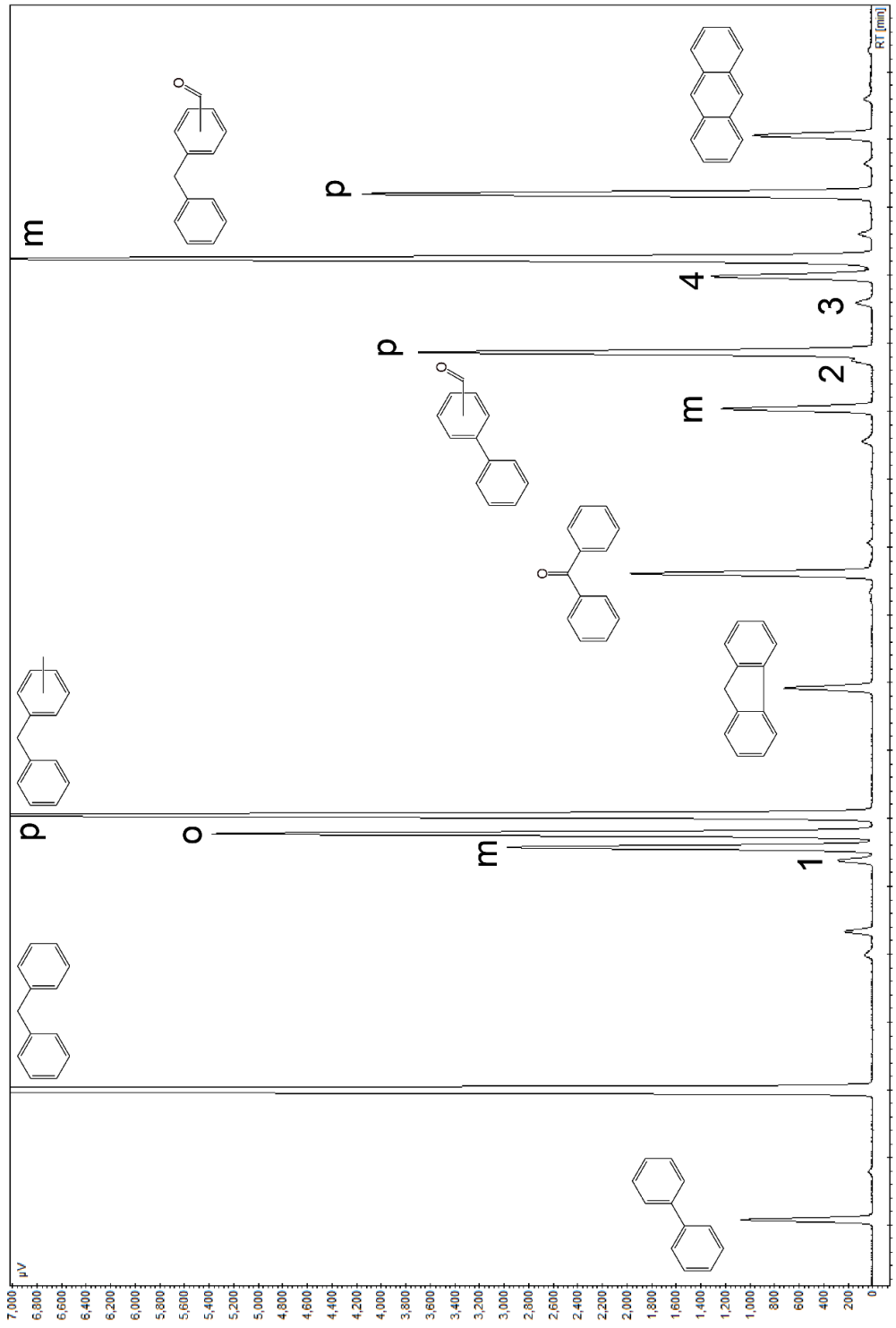

Figure S2. Two-ring region of chromatogram in Figure S1 with the structure of identified analytes indicated. Isomers are labeled as *o*, *m*, or *p* (*i.e.*, *ortho*, *meta*, or *para*). Numbered peaks are as follows: 1, bibenzyl; 2, *trans*-stilbene; 3, phenylacetophenone; 4, 9-fluorenone.