Highly Sensitive Determination of Arsenic in Water Samples by Hydrogen-Doped Solution Anode Glow Discharge-Optical Emission Spectrometry

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Table of Contents

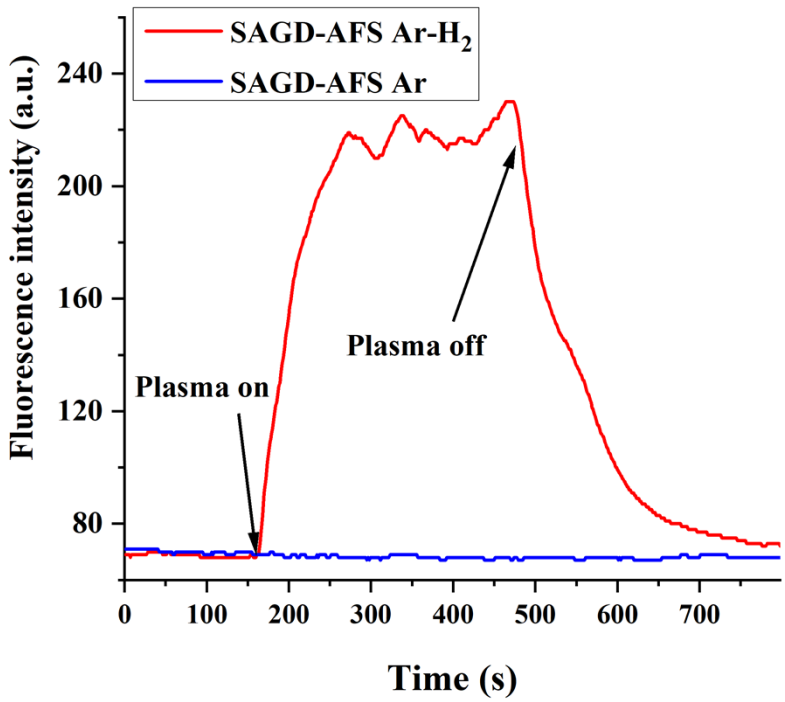

Figure S1. Fluorescence spectra of As detected by SAGD-AFS under Ar and Ar-H_2 atmosphere.

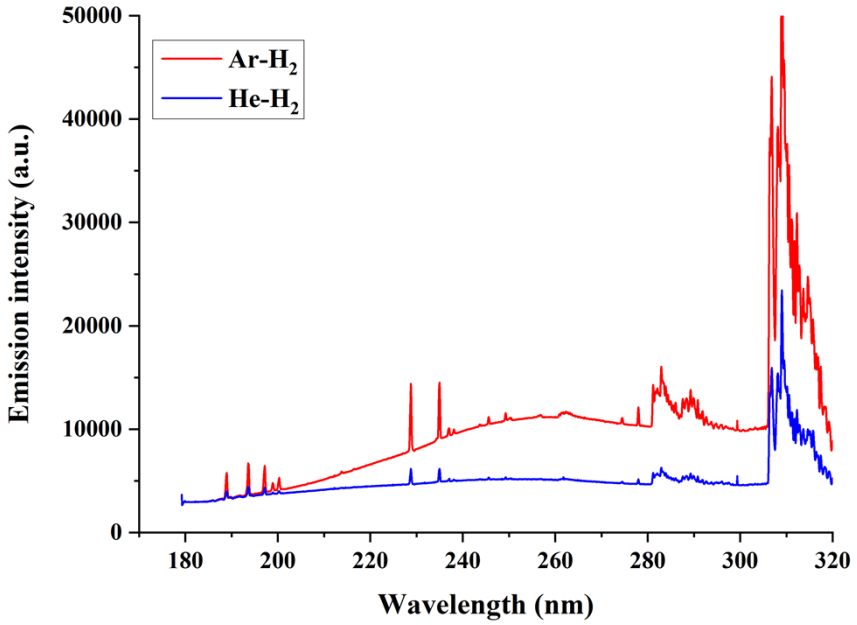

Figure S2. The emission spectra of As under Ar-H_2 and He-H_2 (including the background spectra).

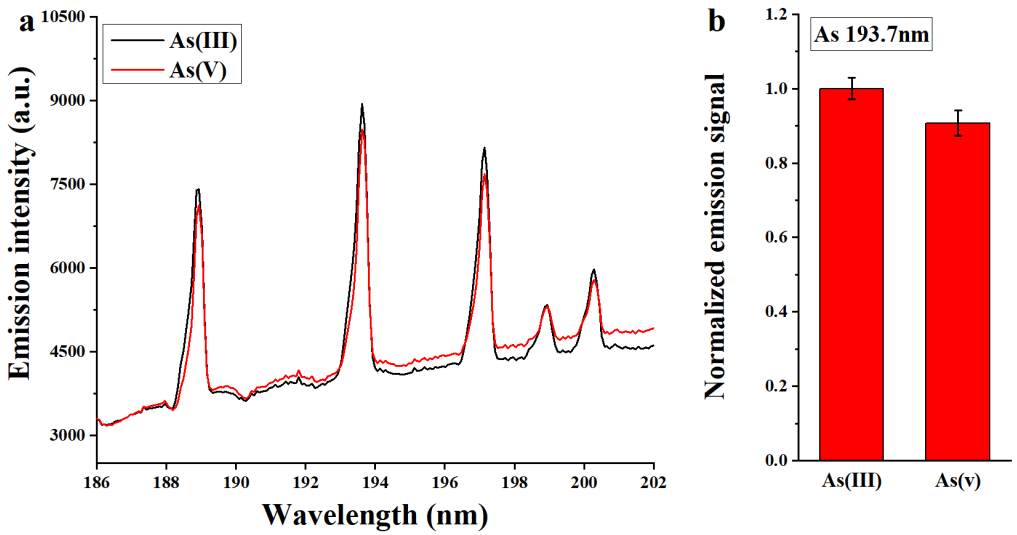

Figure S3. a) The emission spectra and b) the comparison of normalized emission signal normalized signal in 193.7 nm of As (III) and As(V) by hydrogen-doped SAGD-OES.

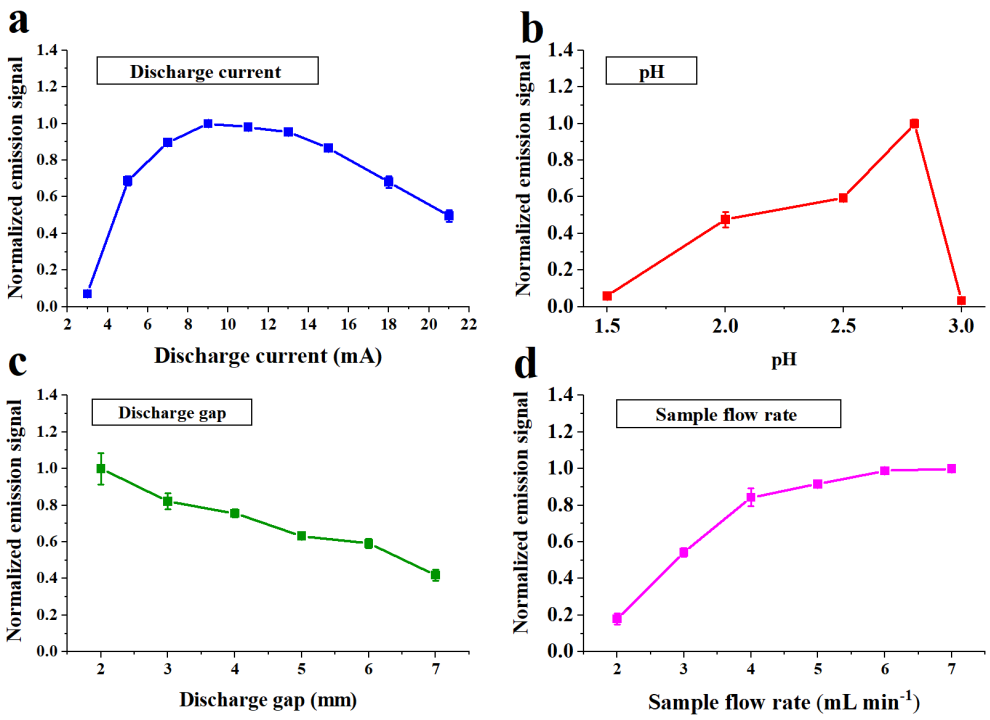

Figure S4. Optimization of the SAGD-OES parameters: the effect of a) discharge current, b) pH, c) discharge gap and d) sample flow rate on As emission signal (Ar flow rate: 300 mL min^{-1}; H_2 flow rate: 15 mL min^{-1}.)

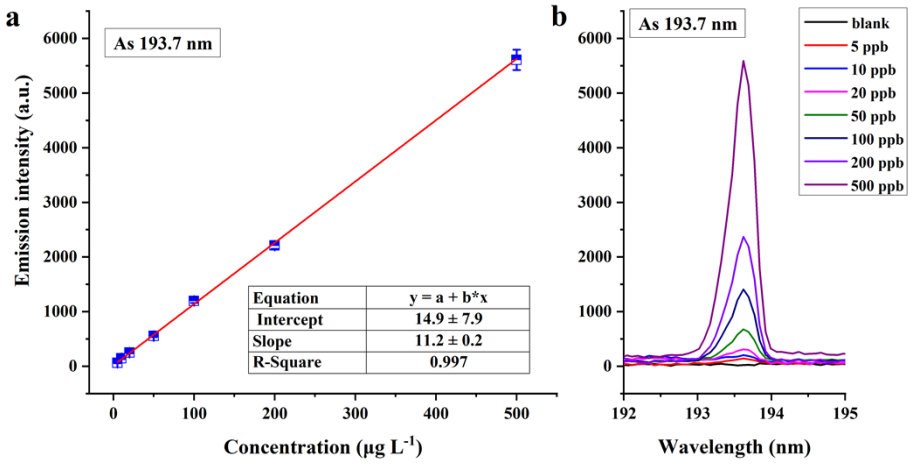

Figure S5. a) The standard curve and b) emission spectra of As at different concentrations.

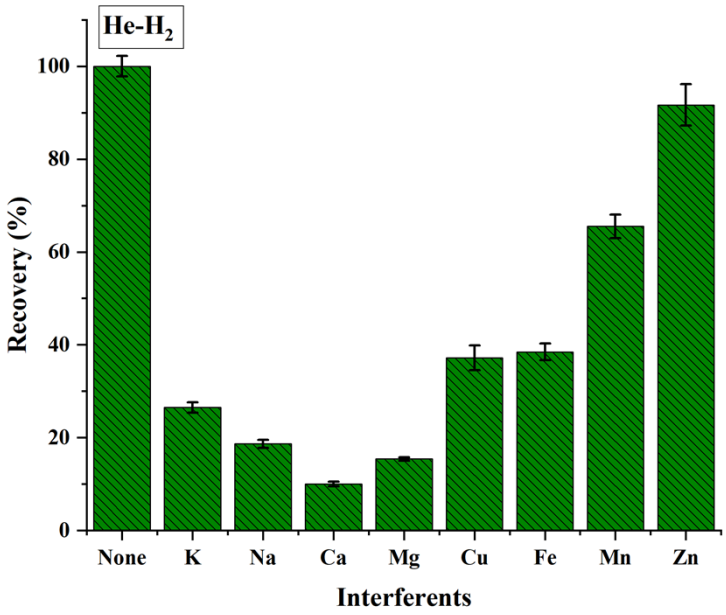

Figure S6. The effect of concomitant ions (10 mg L^{-1}) on recovery of As detected by He-H_2 SAGD-OES.