

Supplementary Data

List of Supplementary Data Figures

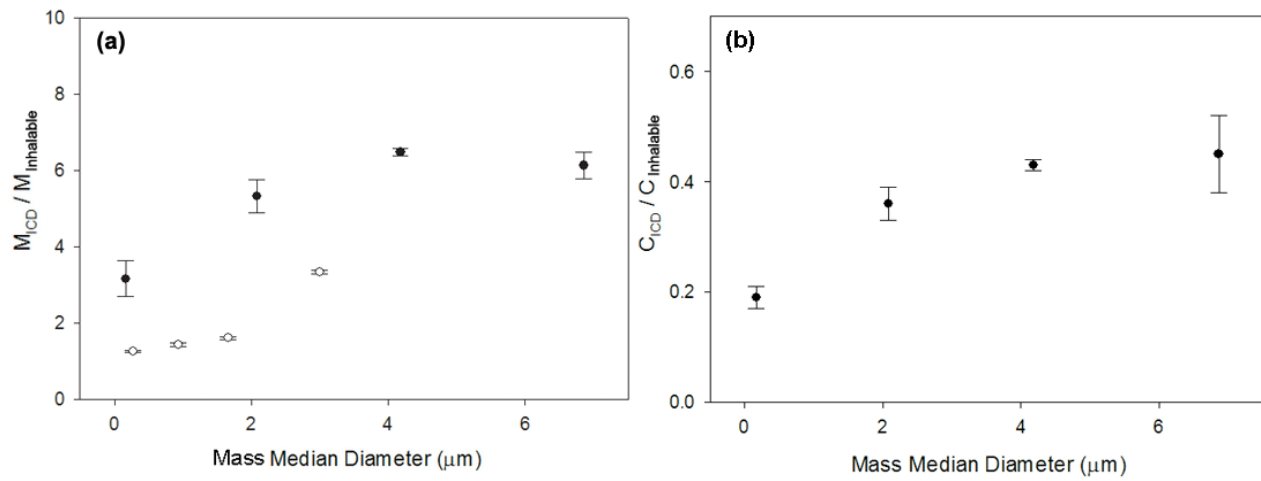


Fig. S1. Ratios of total mass and mass concentration resulting from the ICDs to those of the inhalable aerosol samplers: a) total mass ratios and b) mass concentration ratios (filled circles refer to powder aerosols and open circles refer to PSL particles)

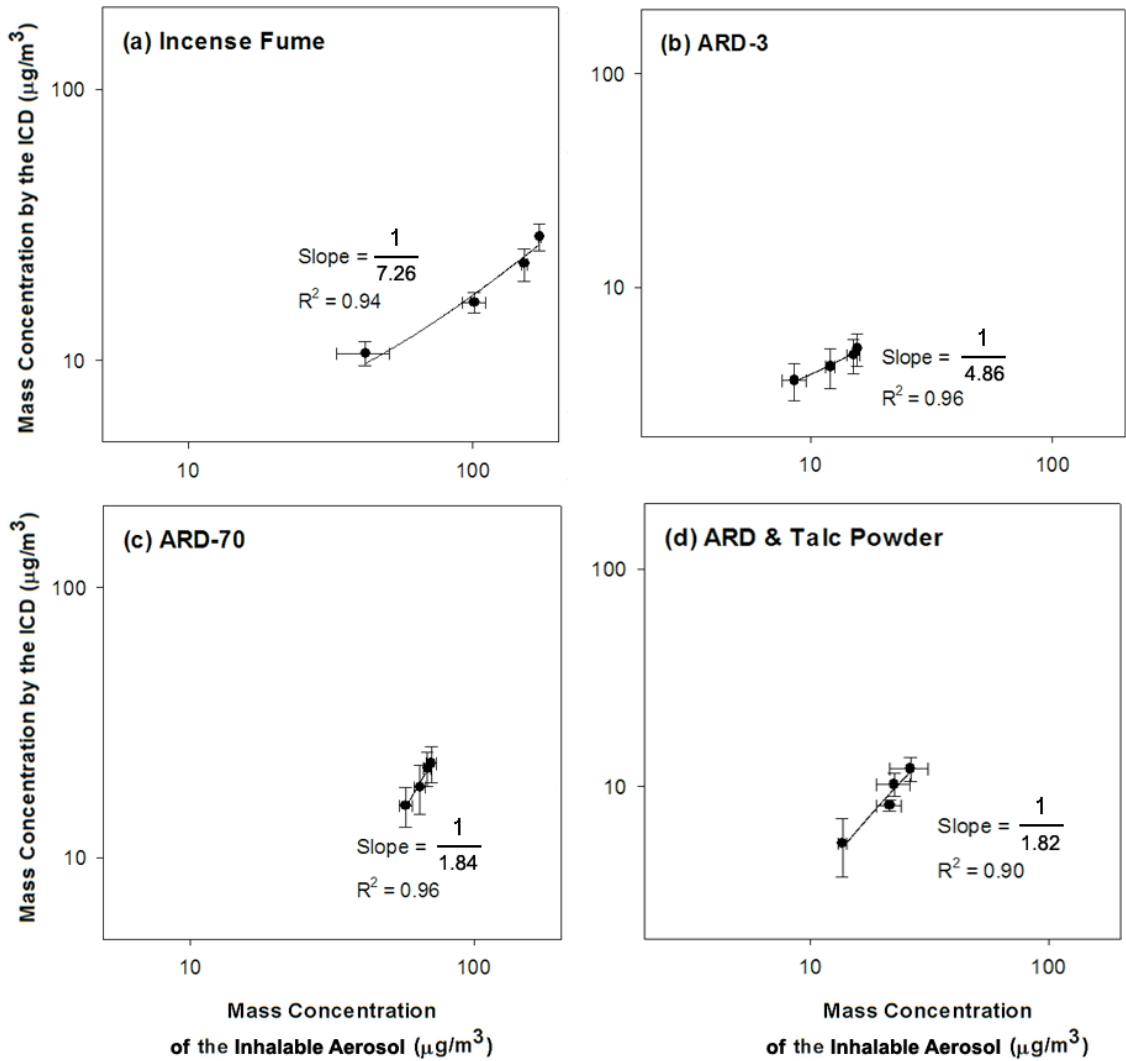


Fig. S2. Relationship between aerosol mass concentrations estimated by the ICD and conventional aerosol samplers in collection of ARD powder and Incense fume: a) ICD vs inhalable aerosol sampler for Incense fume, b) ICD vs inhalable aerosol sampler for ARD-3, c) ICD vs inhalable aerosol sampler for ARD-70 and d) ICD vs inhalable aerosol sampler for ARD & talc powder. Error bars indicate standard errors.

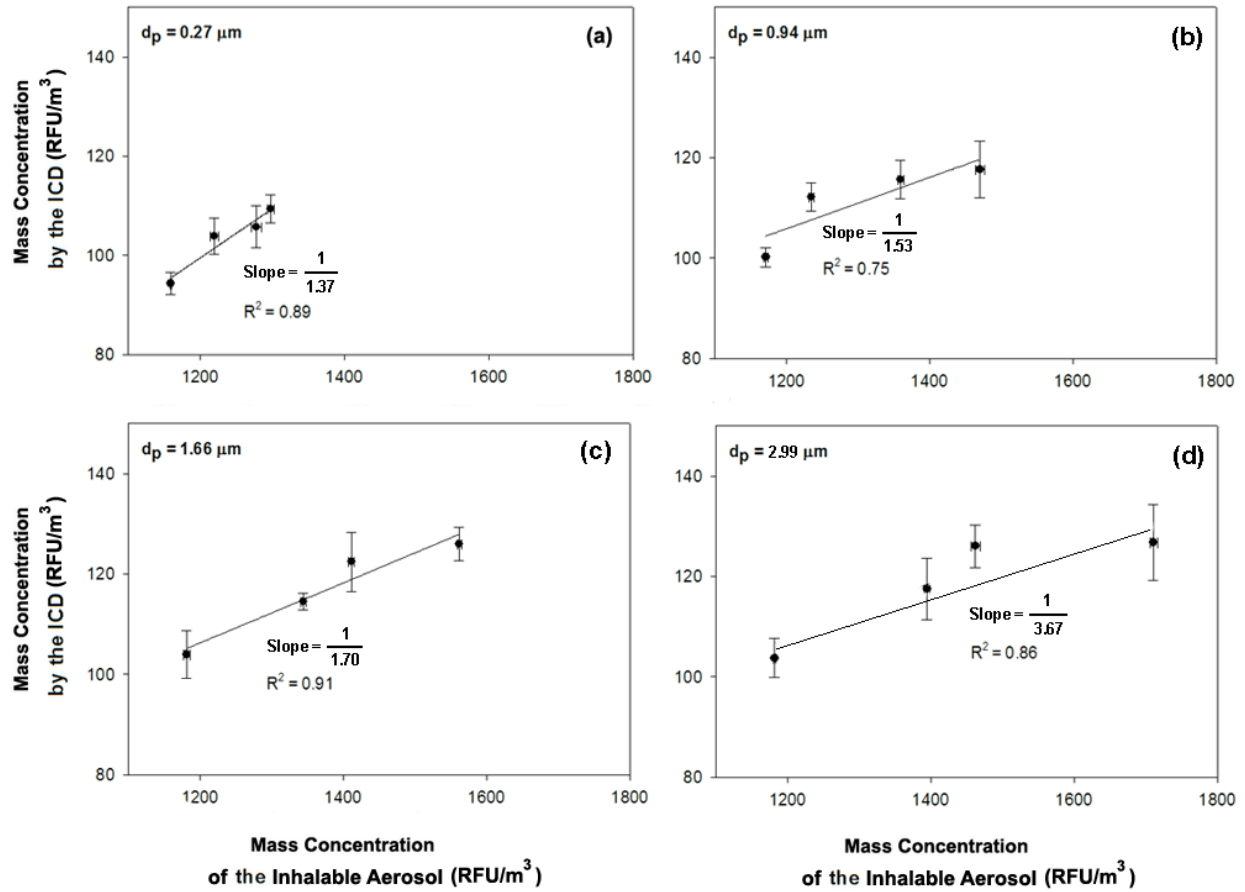


Fig. S3. Linearity of ICD mass concentration results with respect to inhalable aerosol sampler in collection of fluorescent PSL particles: a) $d_p = 0.27 \mu\text{m}$, b) $d_p = 0.94 \mu\text{m}$, c) $d_p = 1.66 \mu\text{m}$ and d) $d_p = 3 \mu\text{m}$. Error bars indicate standard errors.