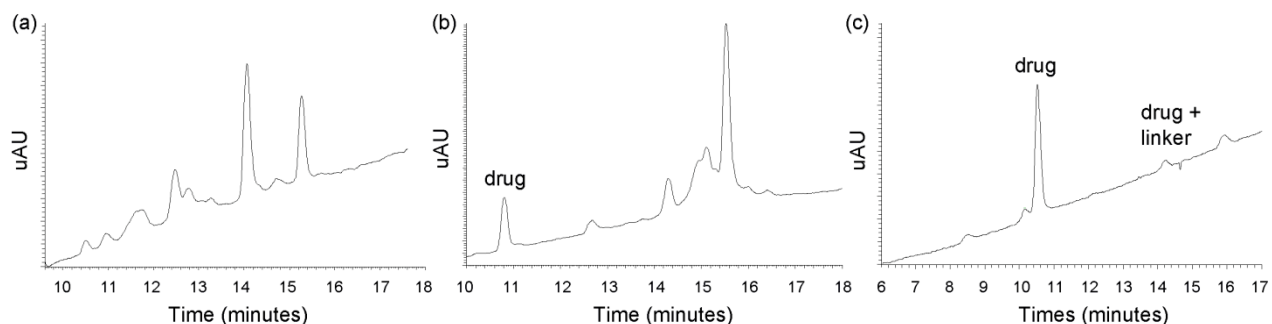
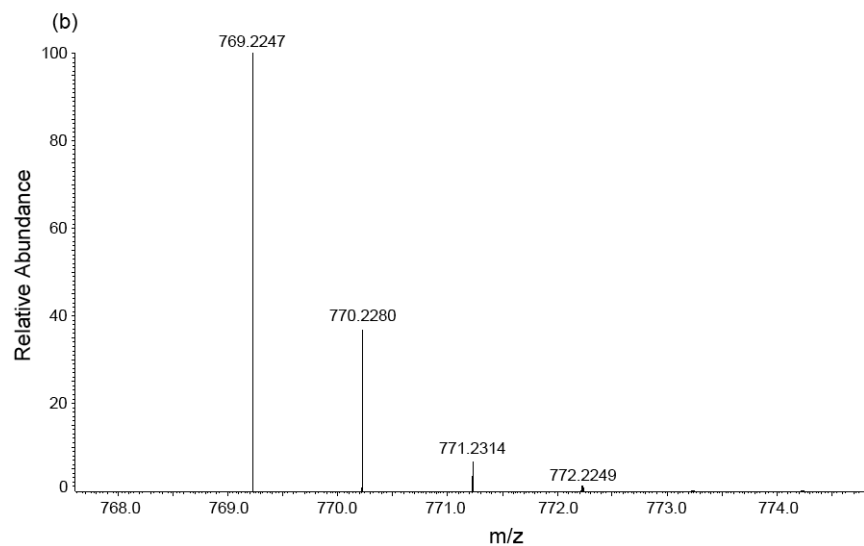
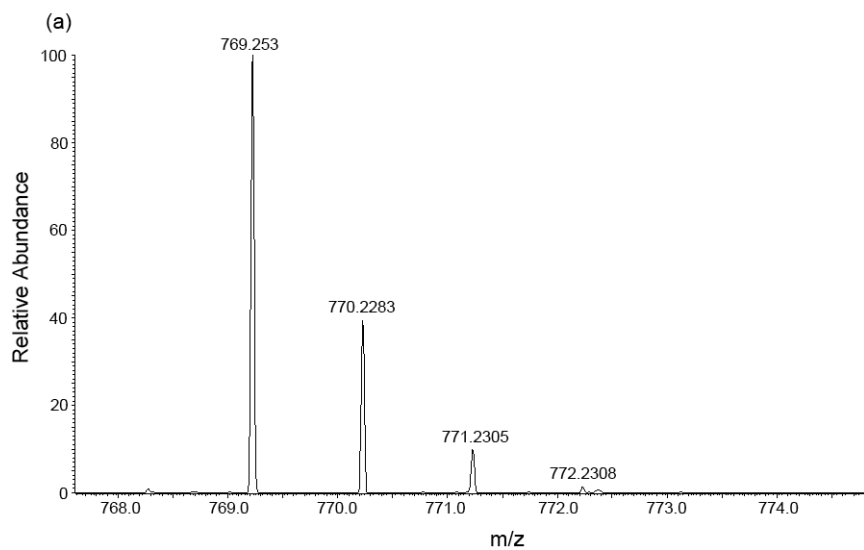


Supplementary Figures for “Suitability of Porous Silicon Microparticles for the Long-Term Delivery of Redox-Active Therapeutics,” Elizabeth C. Wu, Jennifer S. Andrew, Alex Buyanin, Joseph M. Kinsella, Michael J. Sailor.



Supplementary Fig. 1 LC traces (UV detection at 480 nm) of compounds released from: (a) hydrosilylated pSi particles; (b) hydrosilylated pSi particles air-oxidized at 150°C; (c) pSiO₂ particles air-oxidized at 800°C and then silanized. All particle types contained daunorubicin (“drug”) that had been coupled to the carboxylic acid group of the linker by EDC/sulfo-NHS chemistry. MS analysis on the peak labelled “drug” contained $m/z = 528.08$, corresponding to $[M+H]^+$, and $m/z = 550.20$, corresponding to $[M+Na]^+$, where M = the molecular mass of daunorubicin.



Supplementary Fig. 2 High resolution MS of LC trace peak at 14.2 minutes of released compounds from pSiO₂ particles air-oxidized at 800°C and then silanized (a) and simulation of the MS of daunorubicin attached to Si through the succinic anhydride linker (b).