



**Supplemental Figure 4.** Chromatograms at  $m/z$  573.4 and  $m/z$  593.5 for the 5 consecutive injections of the same pooled M-CSF sample processed for  $F_4$ -NPs analysis (CSF-1 to CSF-5) and the 4 subsequent injections of undecane alone (Wash-1 to Wash-4) when the additional holding of the column at the high temperature was conducted. They were the same samples described in Figure 3. The chromatograms in the range of 3.6 min to 8.6 min (the end of data acquisition) were compared. The peaks of  $[^2H_4]$ -15- $F_{2t}$ -IsoP at  $m/z$  573.4 are indicated by the asterisks.