



Supplementary Figure 6. Changes in the fraction of LSF ($fLSF = LSF/(SSF+LSF)$) in total pMn (blue), pFe (red), and POM (green) in the hydrothermal plume. The fLSF of pMn is anomalously high at stations 18 and 20 and gradually decreases between stations 21 and 28. On each box, the central mark indicates the median, and the bottom and top edges of the box indicate the 25th and 75th percentiles, respectively. The whiskers extend to the maximum and minimum data points.