



Fig 2. $\delta^{30}\text{Si}$ results measured by each laboratory for each reference material (see Table 2 for the correspondence between laboratory number and laboratory name). Each datapoint is the arithmetic mean \pm 2 standard deviations of at least three replicate analyses for each reference material full procedural replicate. The figure also shows whether the samples were calcinated (C) or not (NC) to remove organic matter before alkaline fusion as well as whether the Si fractions were doped (D) with Mg prior to mass spectrometric analyses or not (ND). The black star on the $\delta^{30}\text{Si}$ of WQC shows that this value was not measured but calculated from measured $\delta^{29}\text{Si}$ assuming mass-dependent fractionation. The vertical envelope between the dotted lines shows the array defined by the expanded uncertainty ($U, k=2$) around the arithmetic mean of the full procedure replicates for each reference material.