

Trace element distribution patterns in cassiterites
from different geologic environments

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Cassiterites from different geologic environments besides possessing certain distinct to subtle differences in crystallography, physical and optical properties also show interesting differences in minor and trace element contents.

Ionprobe analysis scans through 250 elements revealed distinct trace element distribution patterns for cassiterites from different geologic environments, in particular rare earth elements distribution patterns.

Additional quantitative microprobe analysis of 28 selected minor and trace elements in the cassiterites also showed distinctive trace element distribution patterns.
