

## Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

**Sample ID:** RB-QD04-0006

**PI:** H. Yurimoto

**Type and date of analysis performed:**

SIMS analysis of oxygen and magnesium isotopes, Dec 17, 2011

**Elements or phases identified:** (Mg, Si, olivine, pyroxene, aromatic carbon, etc.)

Oxygen isotopes

**Contaminant phases identified:** (Al, SUS, carbon particles, etc.)

None

**Sample handling:** (e.g. exposed in atmosphere, embedded in resin, polished, sliced by FIB or UMT)

exposed in atmosphere, Au sputter coating ~100nm

**State of sample pre-analysis:** (e.g. N2 hold, atmosphere, resin embedded, polished section, UTS) (please describe treatments and/or modifications for the sample you have done before your analysis)

exposed in atmosphere, Au sputter coating ~100nm

**State of sample post-analysis:**

(N2 hold in sample holder, atmosphere, resin embedded, polished section, UTS)

(partially damaged by electron beam, spotted by Ga beam, neutron activation)

(consumed by laser ablation)

(unexpected breakup, into # pieces)

(Lost : reason)

N2 hold in sample holder, partly consumed by Cs beam sputtering, Au coated.

**Analysis data Notes:** (summary of the attached analysis data and/or images)

O isotope data (‰) of olivine and plagioclase.

	$\delta^{17}\text{O}_{\text{SMOW}}$	$\delta^{18}\text{O}_{\text{SMOW}}$	$\Delta^{17}\text{O}$	Remarks
olivine	2.53	2.21	1.38	
plagioclase	5.85	8.43	1.47	

mixed phase 3.19 3.45 1.40 ol 80%, pl 20%