Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0066

PI: Akira Tsuchiyama

Type and date of analysis performed:

Tomography Jan/25/2011 (7 keV)

Jan/24/2011 (8 keV)

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

Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	100	-	-	-	-	-	-	-	-

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

N/A

Sample handling:

Exposed in atmosphere.

State of sample pre-analysis:

Attached to carbon fiber with resin.

State of sample post-analysis:

N_2 hold in sample holder.

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

See attached sheets.

RA-QD02-0066

Operation Date Jan/25/2011 (7 keV)
Jan/24/2011 (8 keV)
operated by Y. Ogami(7 keV)
T. Matsumoto (8 keV)
analyzed by A. Shimada

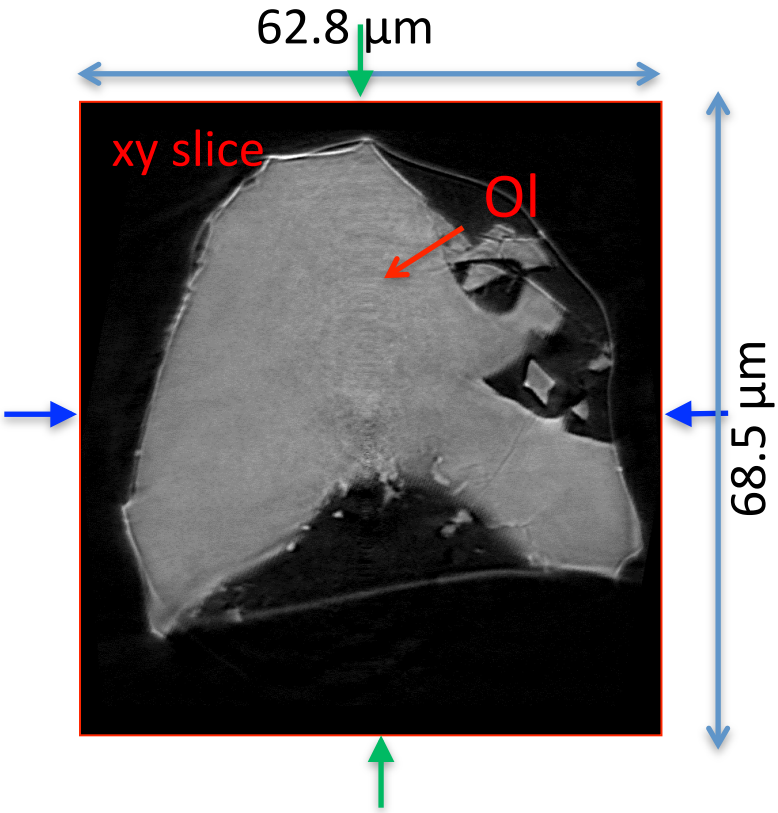
Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	100	-	-	-	-	-	-	-	-

A (μm)	B (μm)	C (μm)	V (μm^3)	Porosity (%)
6.98	26.4	32.3	18473	5.32

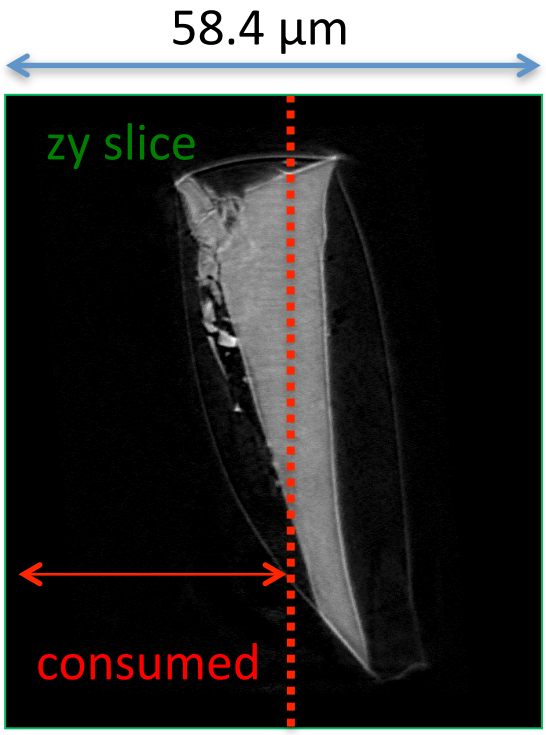
Ol: olivine
LPx: low calcium pyroxene
HPx: high calcium pyroxene
Pl: plagioclase
Tr: troilite
Tae: taenite
Chm: chromite
CP: calcium phosphate
Kam: kamacite

A, B, and C: shortest, middle, and longest axial radii, respectively, of a best-fit ellipsoid for the particle
V: particle volume without pore
dz: CT image interval
LAC: linear attenuation coefficient of X-ray

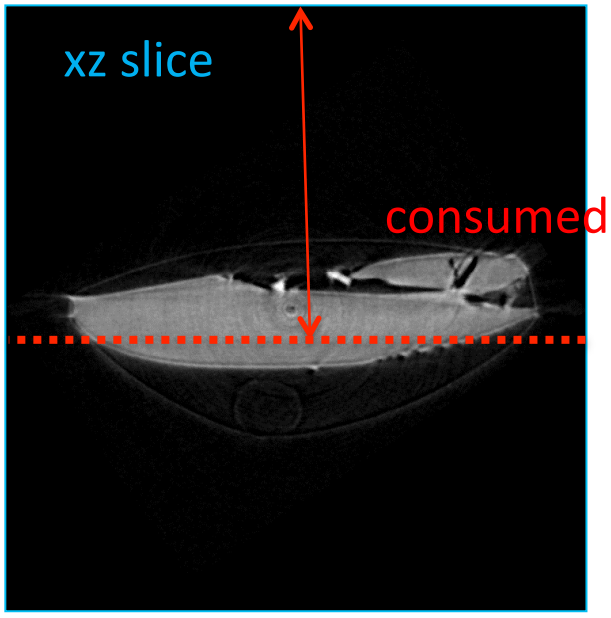
RA-QD02-0066 7 keV



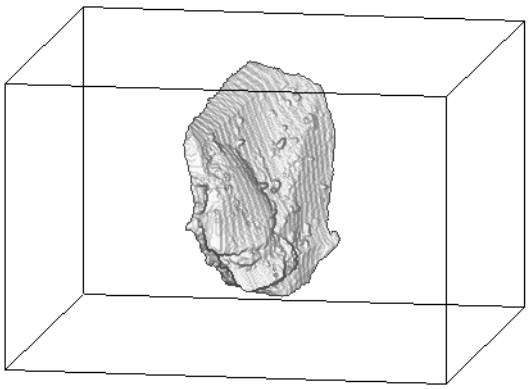
7keV/xy/375.tif



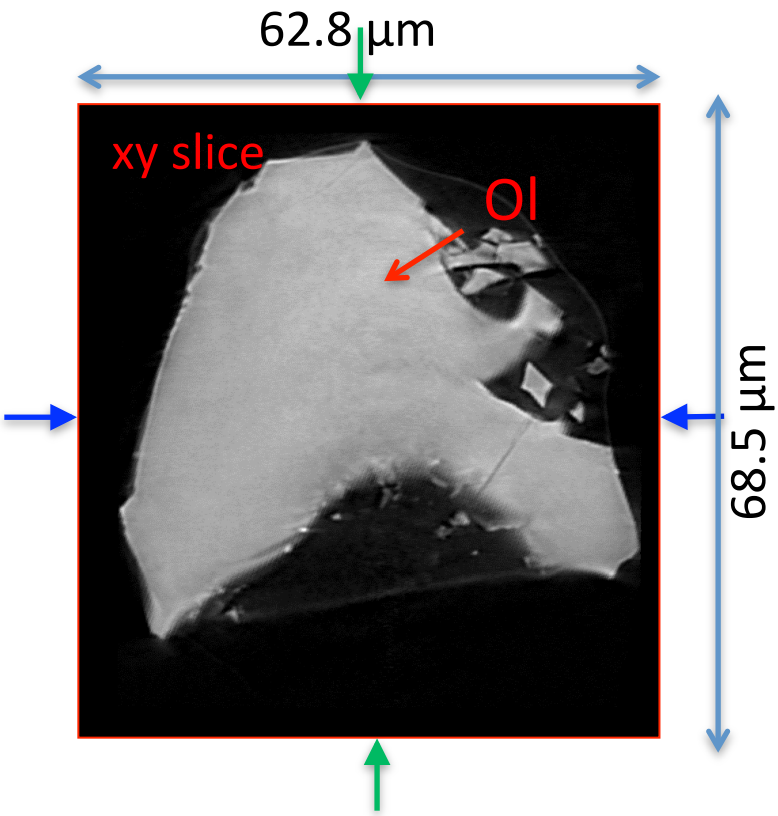
7keV/zy/367.tif



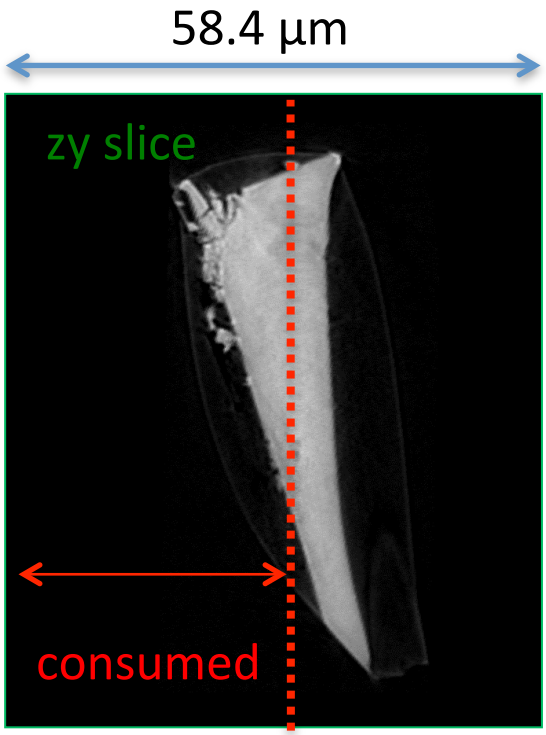
7keV/xz/400.tif



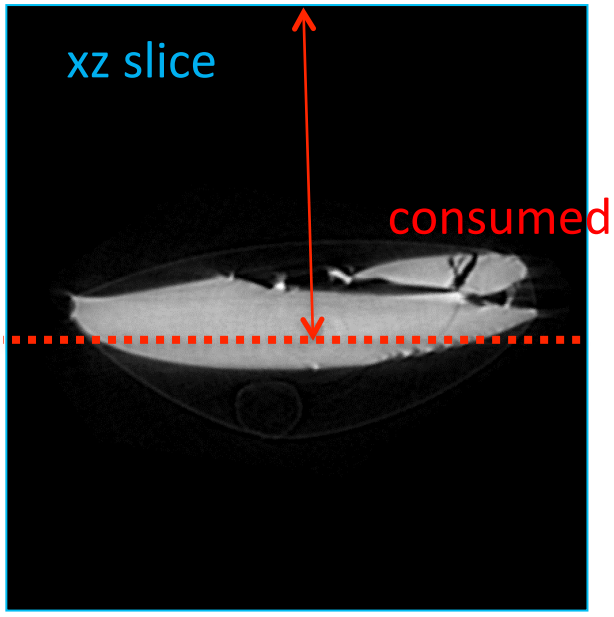
RA-QD02-0066 8 keV



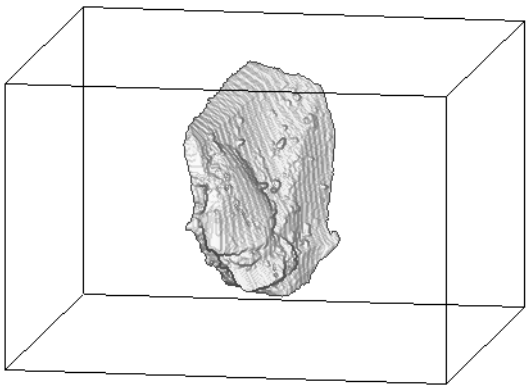
8keV/xy/375.tif



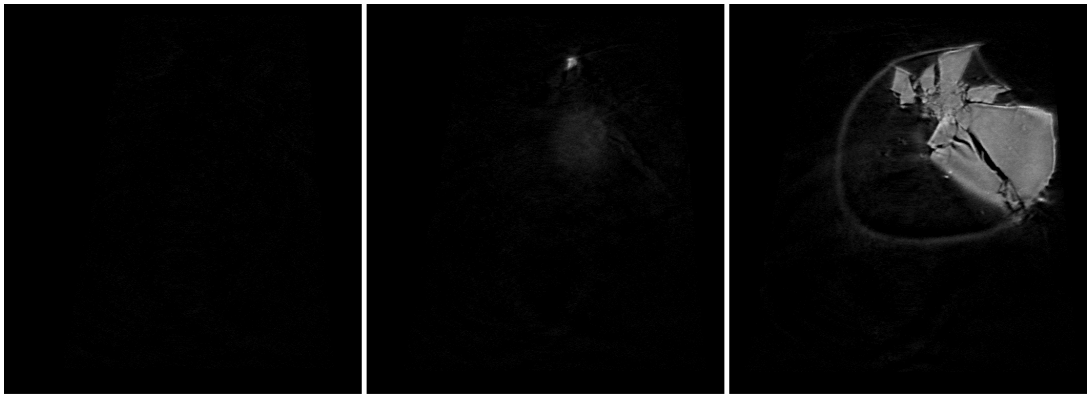
8keV/zy/367.tif



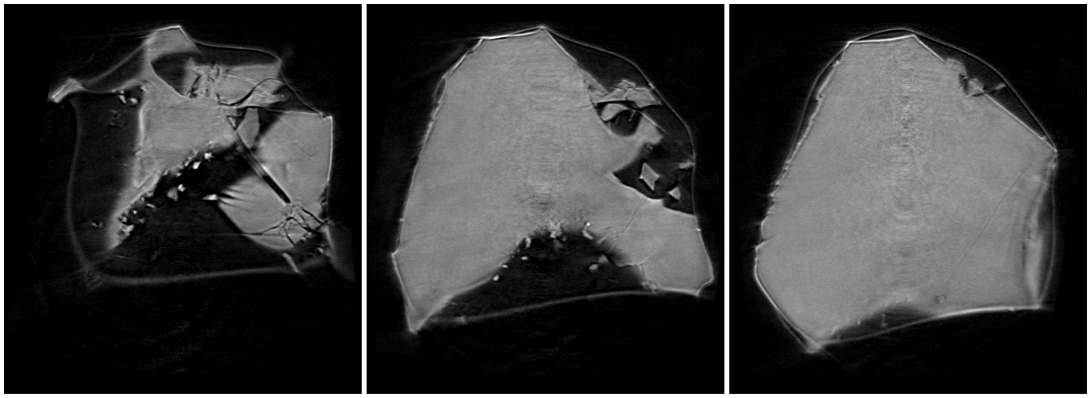
8keV/xz/400.tif



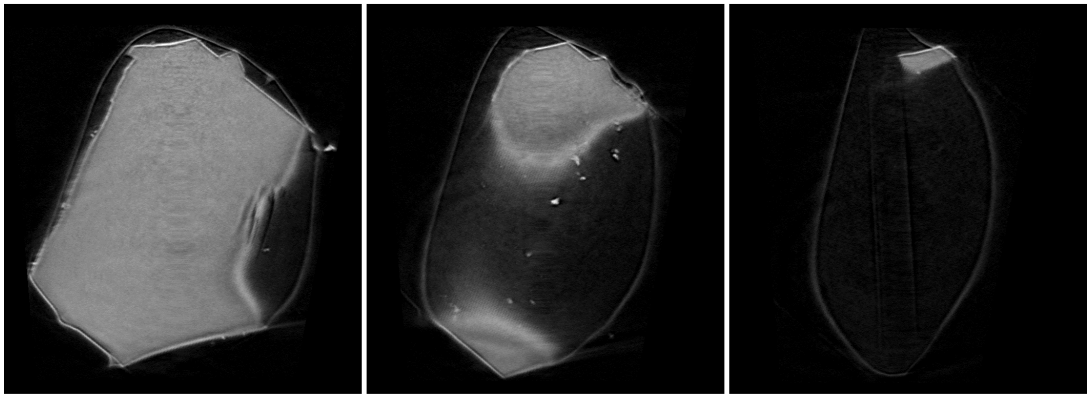
RA-QD02-0066 7 keV catalogue



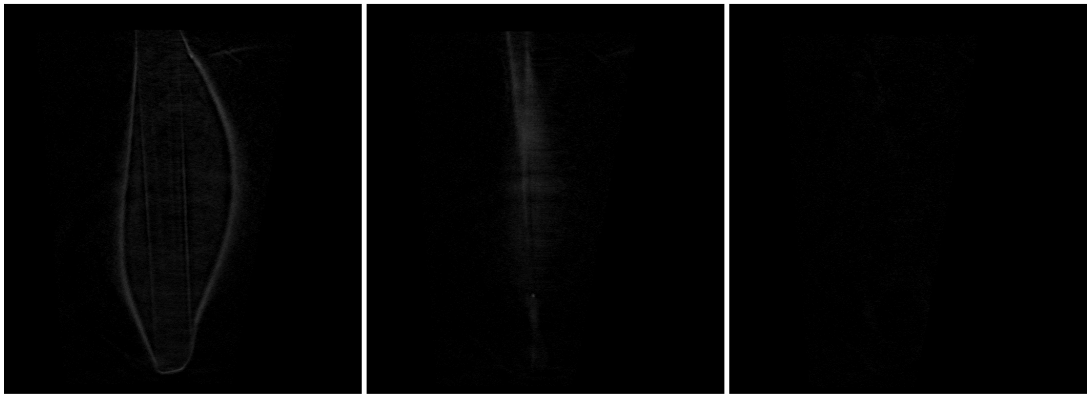
257.tif 286.tif 315.tif



344.tif 373.tif 402.tif



431.tif 460.tif 489.tif



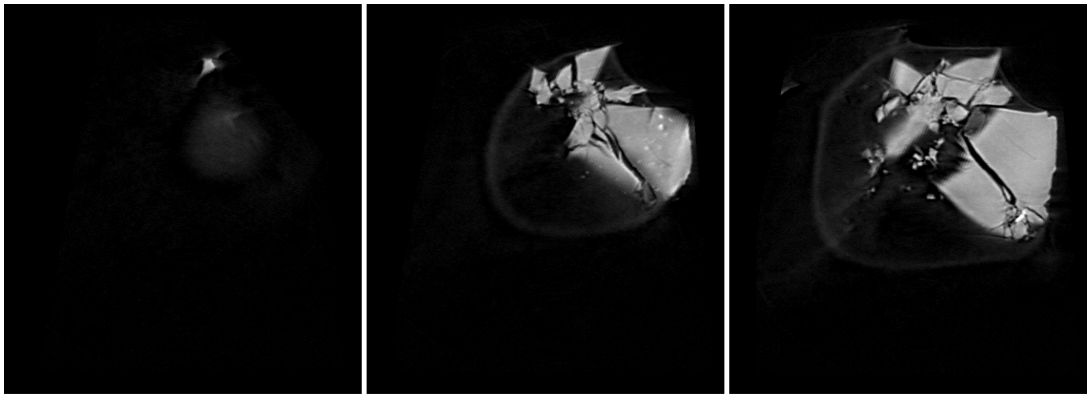
518.tif 547.tif 576.tif

dZ = 2.48443 um

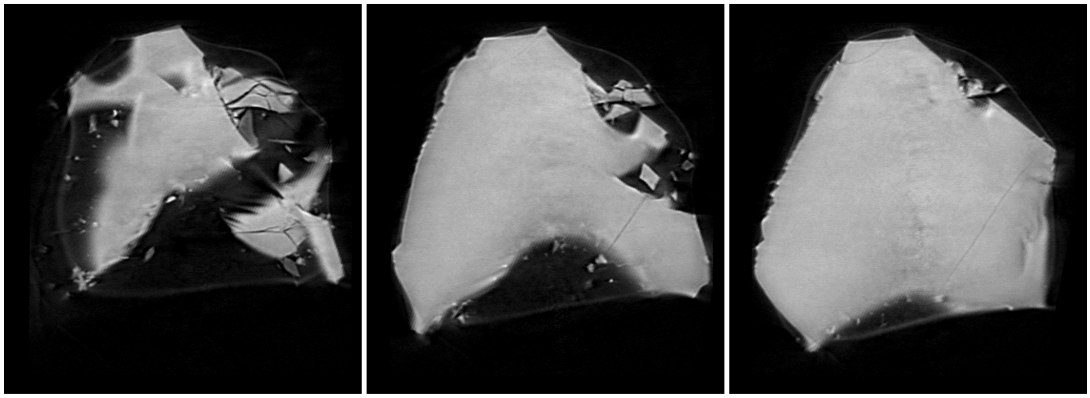
10 um

287 cm-1 (LAC)

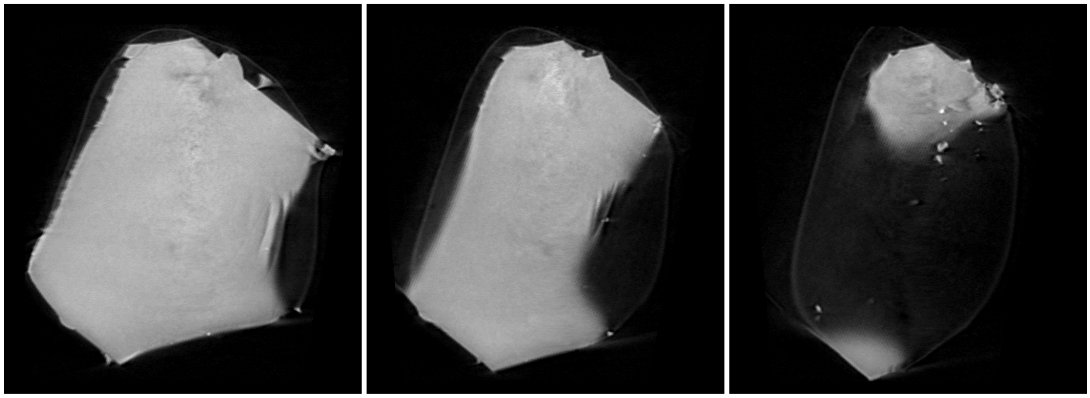
RA-QD02-0066 8 keV catalogue



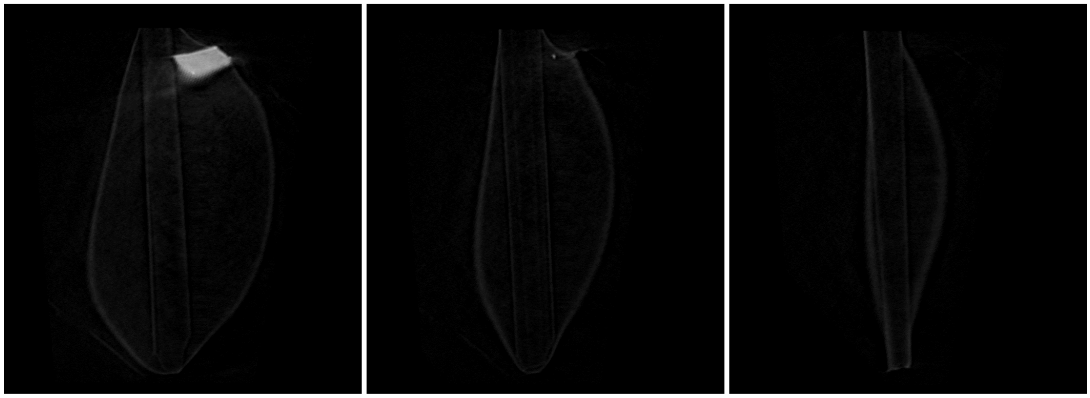
290.tif 312.tif 334.tif



356.tif 378.tif 400.tif



422.tif 444.tif 466.tif



488.tif 510.tif 532.tif

dZ = 1.88474 um

10 um

431 cm-1 (LAC)

RA-QD02-0066 Dual energy histogram