

Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0034

PI: Akira Tsuchiyama

Type and date of analysis performed:

Tomography Jan/23/2011 (7 keV)

 Jan/24/2011 (8 keV)

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

Mode	OI	LPx	HPx	PI	Tr	Tae	Chm	CP	Kam
Vol %	49.1	37.43	11.0	-	2.50	-	-	-	-

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:

N₂ hold in sample holder.

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

See attached sheets.

RA-QD02-0034

Operation Date Jan/23/2011 (7 keV)
 Jan/24/2011 (8 keV)
operated by T. Ogami (7 keV)
 T. Ogami (8 keV)
analyzed by J. Matsuno

Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	49.1	37.43	11.0	-	2.50	-	-	-	-

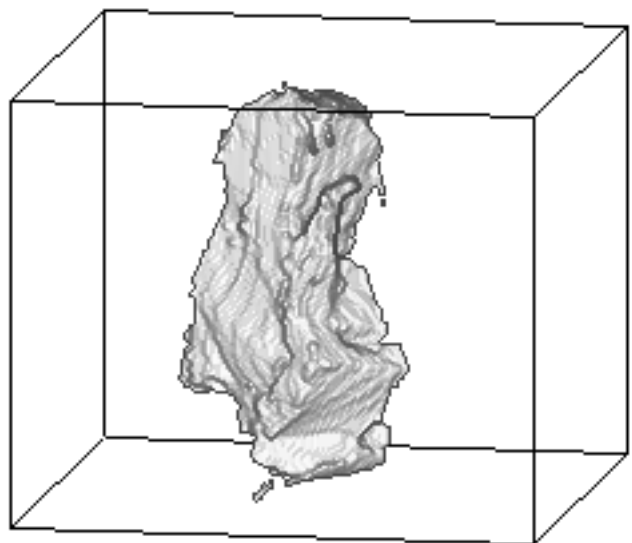
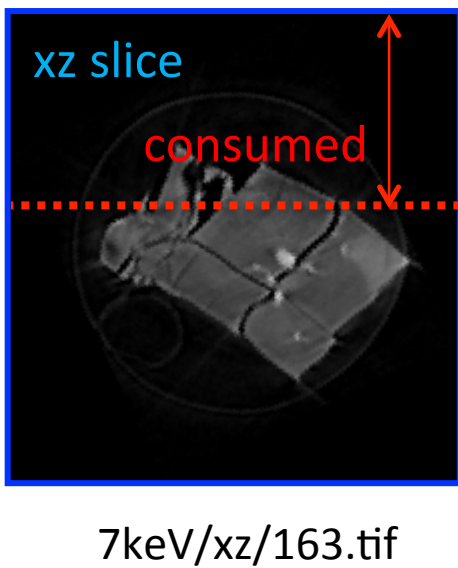
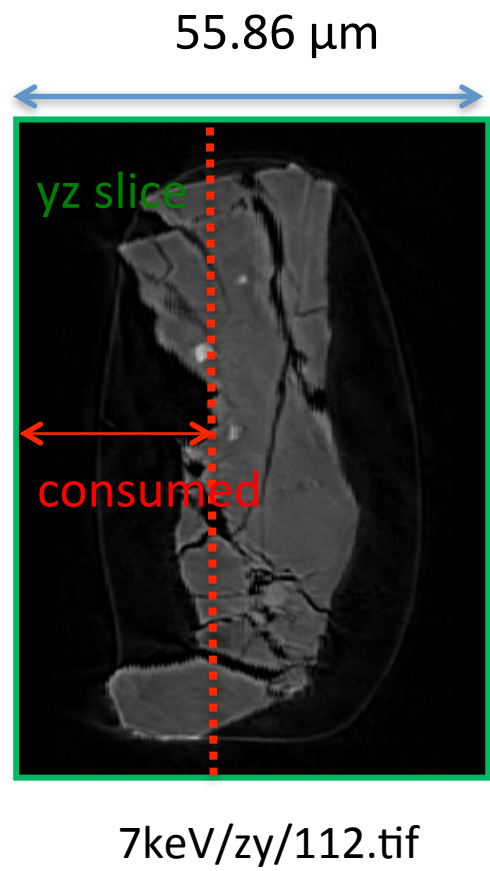
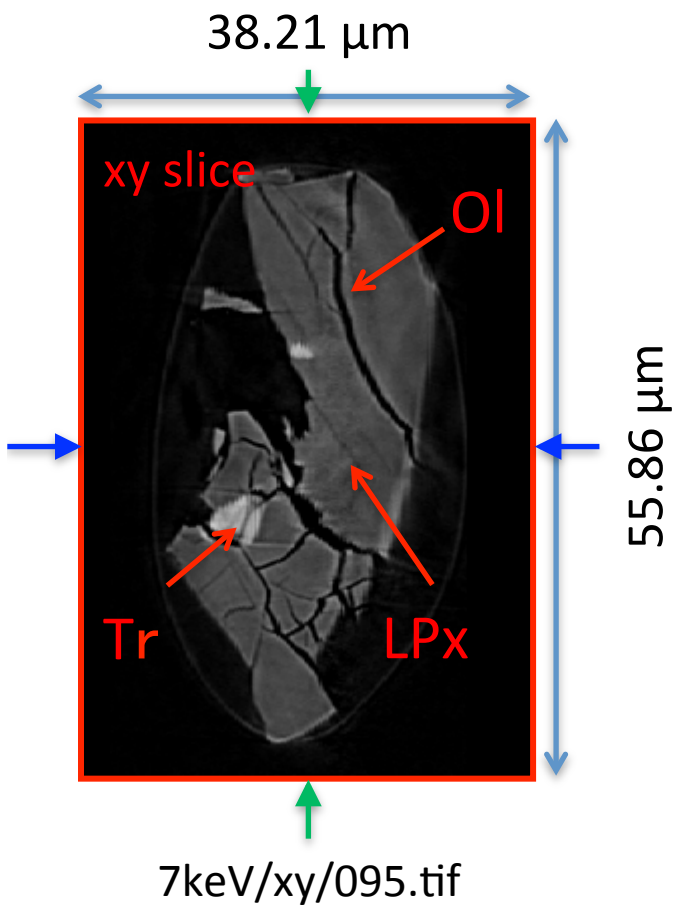
A (μm)	B (μm)	C (μm)	V (μm^3)	Porosity (%)
9.1	12.6	26.8	9293	8.02

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

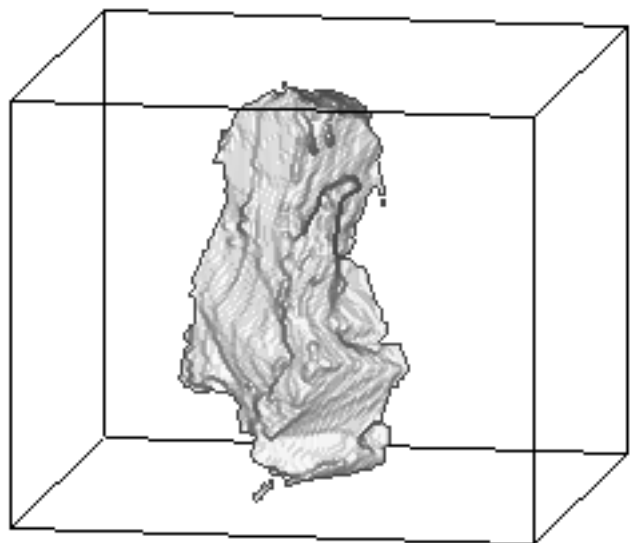
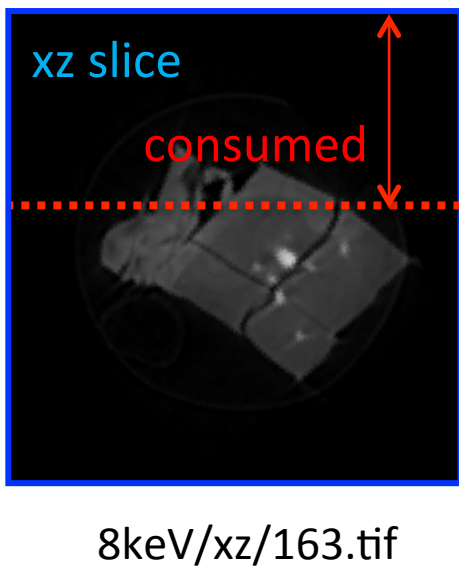
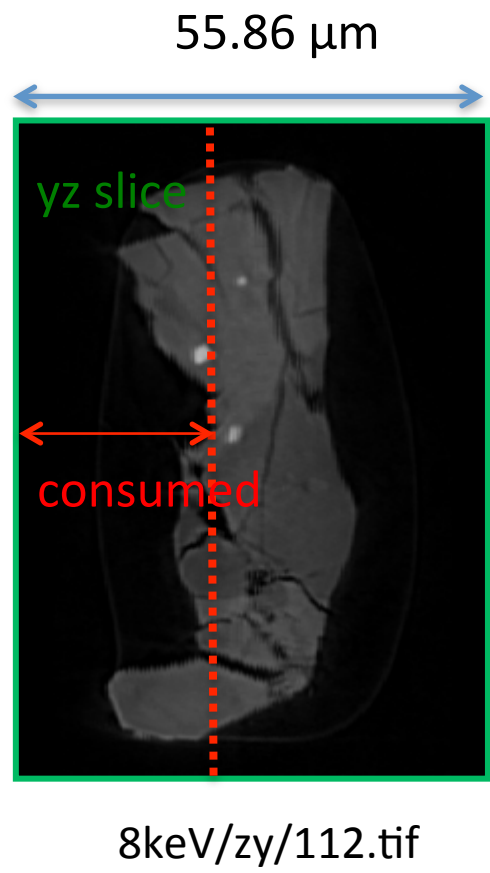
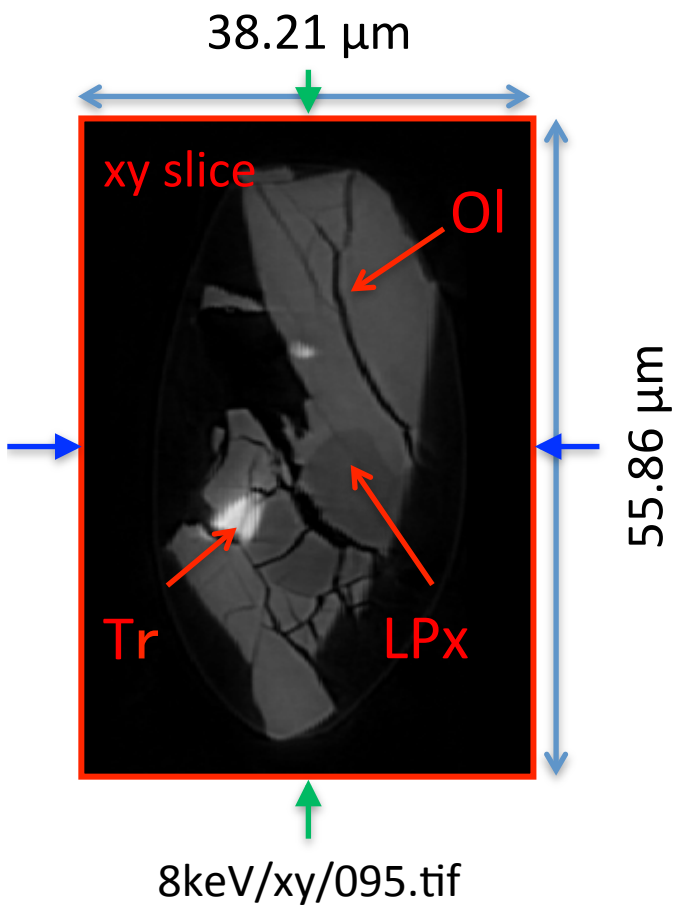
A, B, and C: shortest, middle, and longest axial radii, respectively,
of a best-fit ellipsoid for the particle

V: particle volume without pore
dz: CT image interval
LAC: linear attenuation coefficient of X-ray

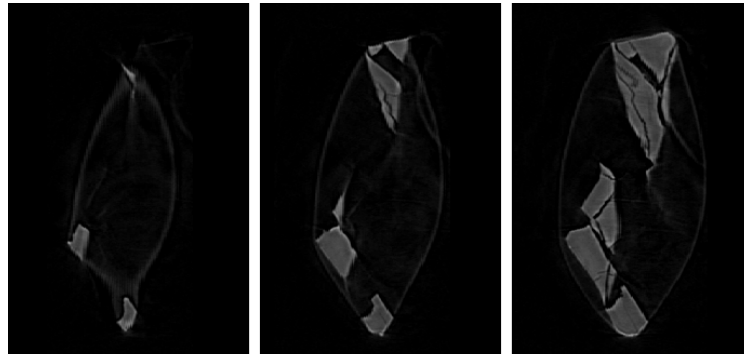
RA-QD02-0034 7 keV



RA-QD02-0034 8 keV



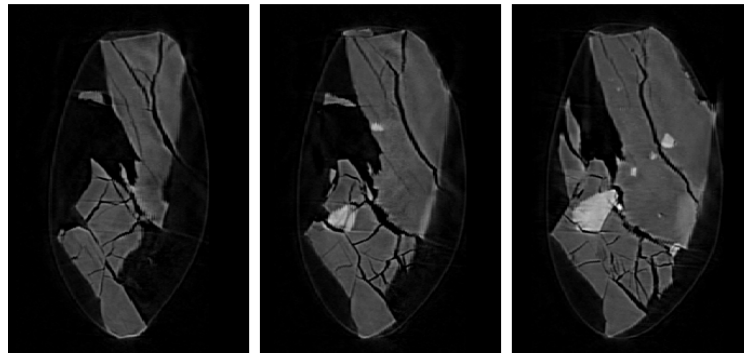
RA-QD02-0034 7 keV catalogue



051.tif

062.tif

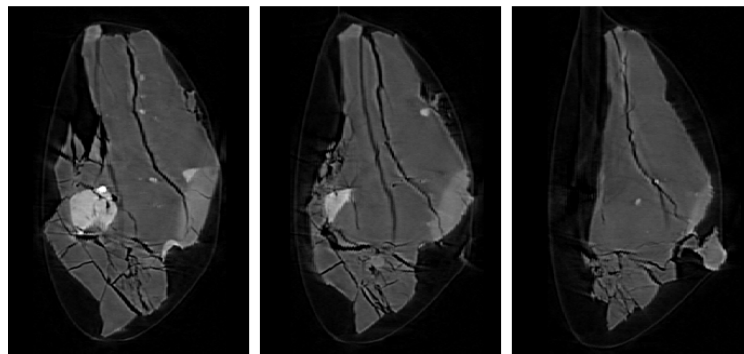
073.tif



084.tif

095.tif

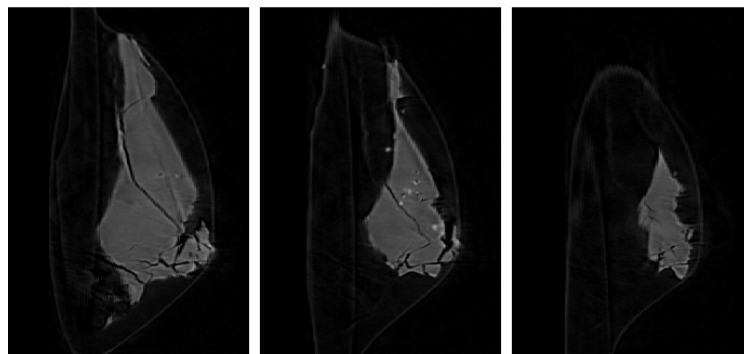
106.tif



117.tif

128.tif

139.tif



150.tif

161.tif

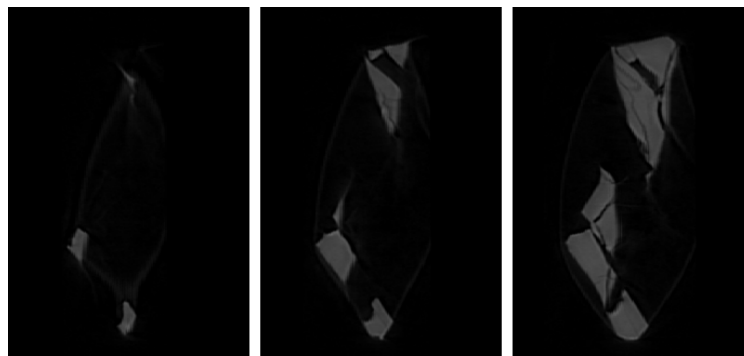
172.tif

dZ = 1.88474 um

21 um

575 cm-1 (LAC)

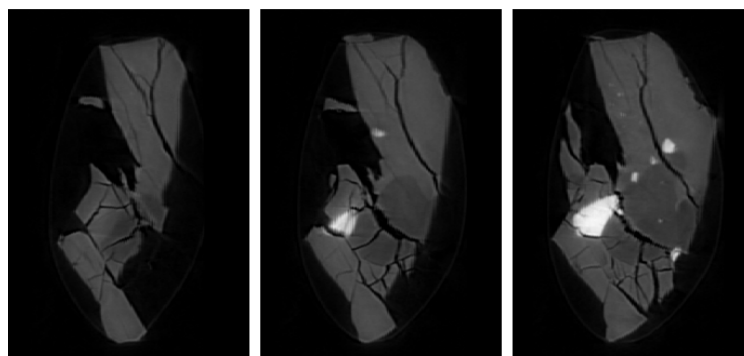
RA-QD02-0034 8 keV catalogue



051.tif

062.tif

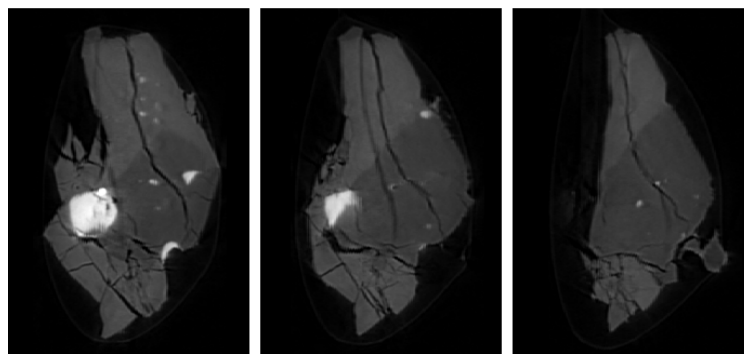
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084.tif

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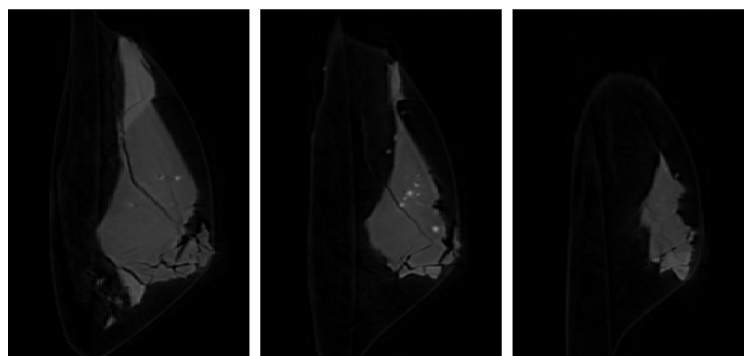
106.tif



117.tif

128.tif

139.tif



150.tif

161.tif

172.tif

dZ = 1.88474 um

21 um

1006 cm-1 (LAC)

RA-QD02-0034 Dual energy histogram

