Sample Results Summary Sheet
Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0058

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	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	68.5	6.95	4.41	20	-	-	-	-	-

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-QD02-0058

Operation Date   Jan/23/2011 (7 keV)

                          Jan/24/2011 (8 keV)

operated by   T. Matsumoto (7 keV)

                          Y. Ogami (8 keV)

analyzed by   A. Shimada
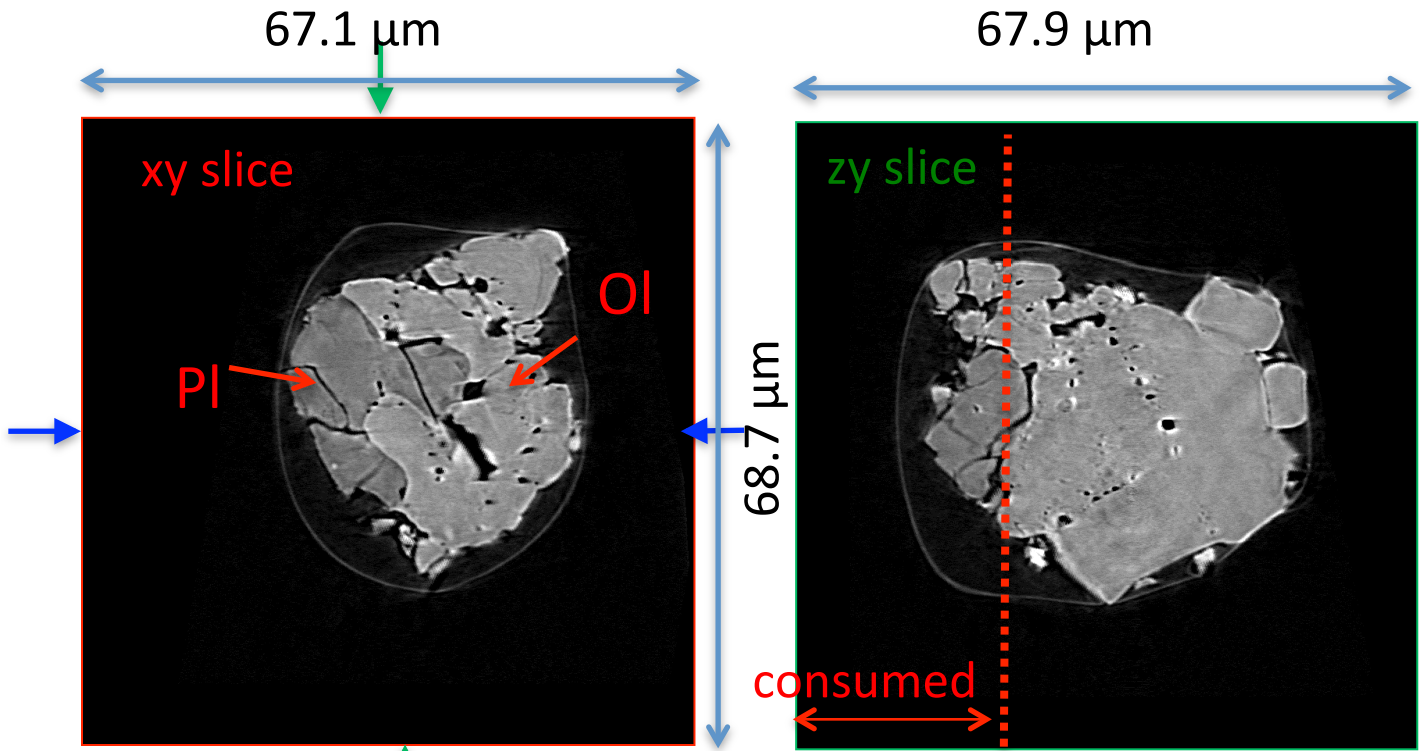
Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	68.5	6.95	4.41	20.0	-	-	-	-	-

A (μm)	B (μm)	C (μm)	V (μm^3)	Porosity (%)
13.8	19.5	26.7	25584	7.21

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
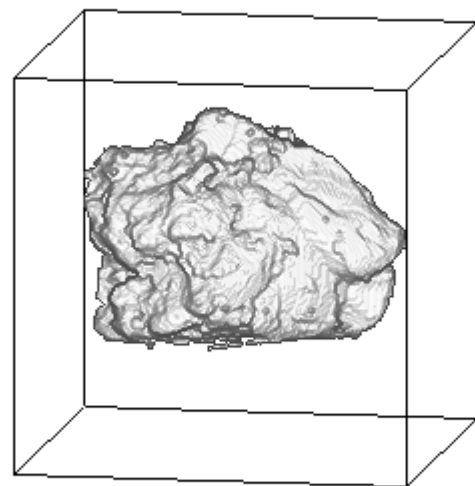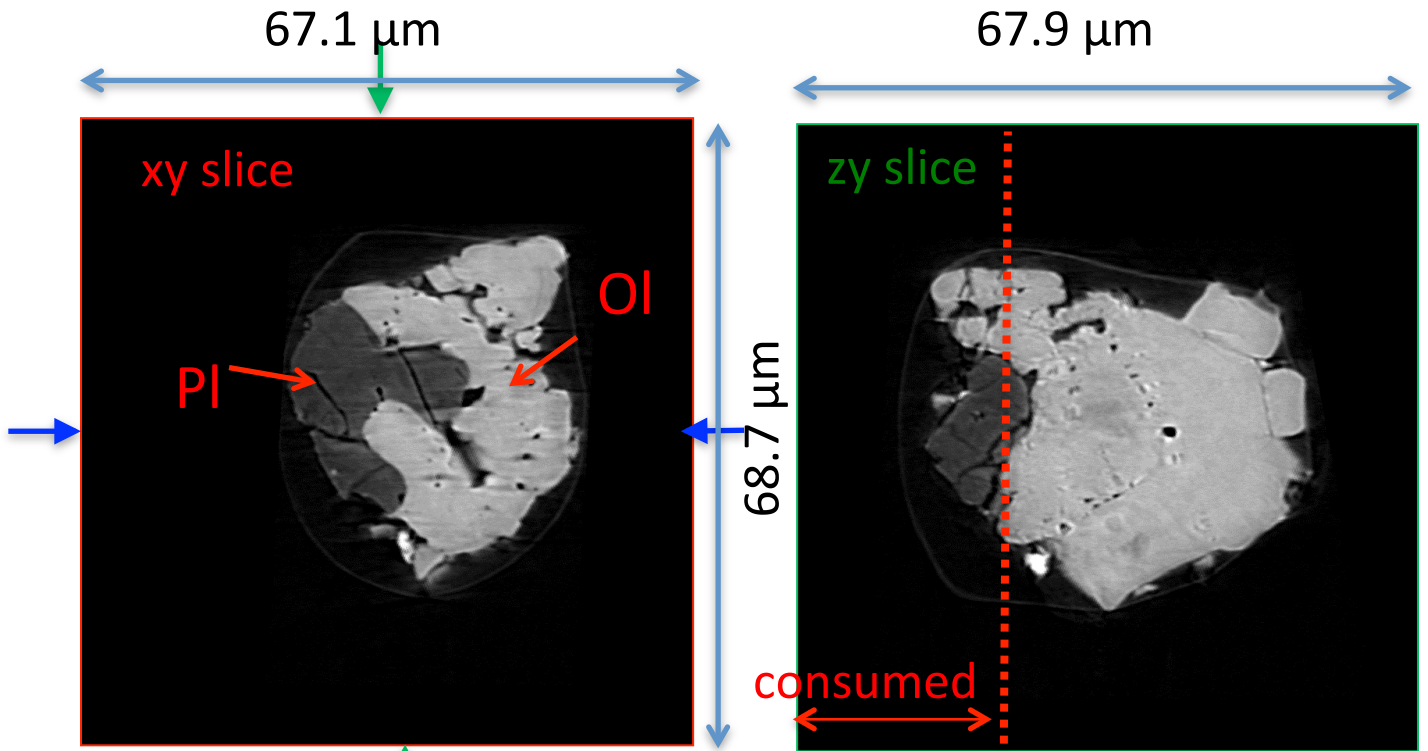
RA-QD02-0058 7 keV

67.1 μm

xy slice

Ol

Pl

7keV/xy/342.tif

67.9 μm

zy slice

consumed

7keV/zy/392.tif

68.7 μm

xz slice

consumed

7keV/xz/401.tif

RA-QD02-0058 8 keV

67.1 µm

xy slice

Ol

Pl

68.7 µm

8keV/xy/342.tif

67.9 µm

zy slice

consumed

8keV/zy/392.tif

xz slice

consumed
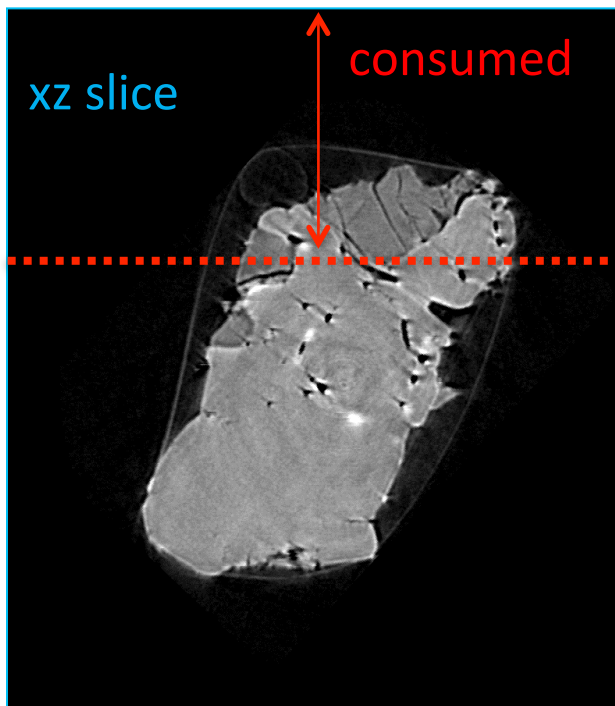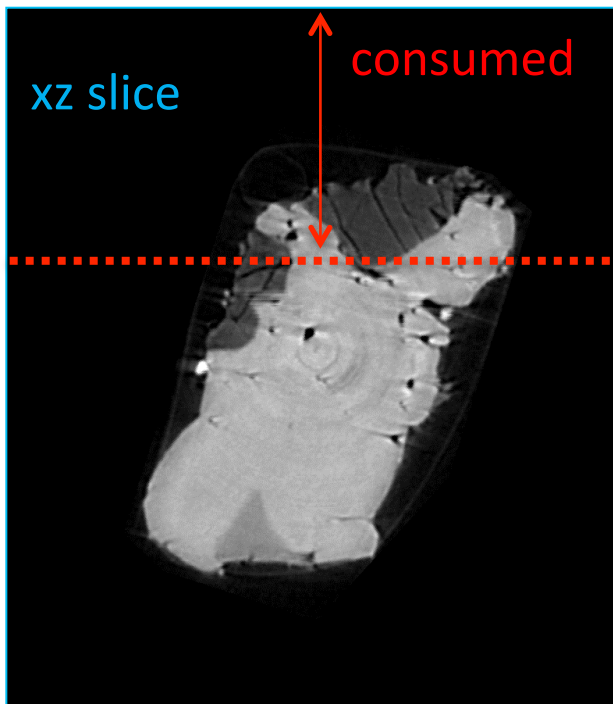
8keV/xz/401.tif
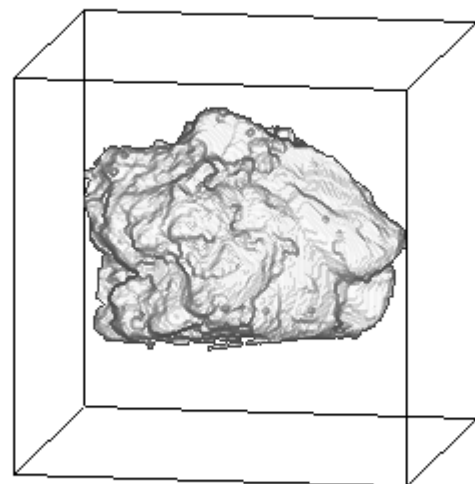
RA-QD02-0058 7 keV catalogue
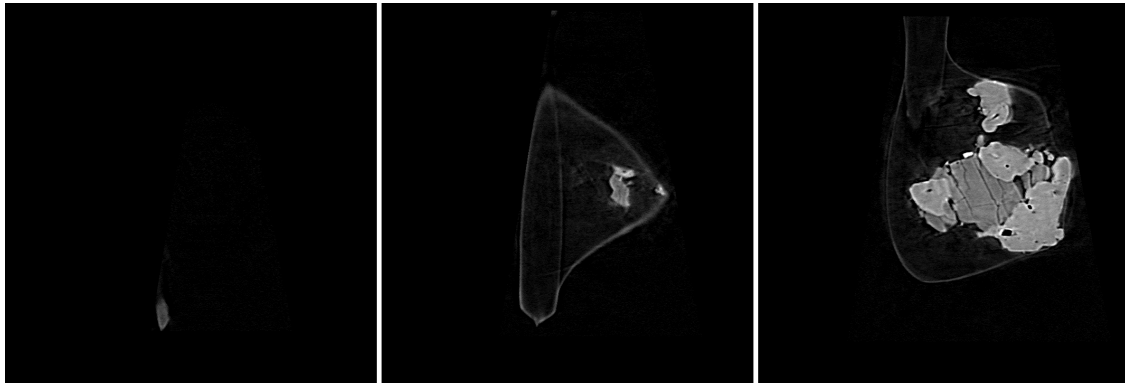
147.tif	210.tif	273.tif
336.tif	399.tif	462.tif
525.tif	588.tif	651.tif
714.tif	777.tif	840.tif
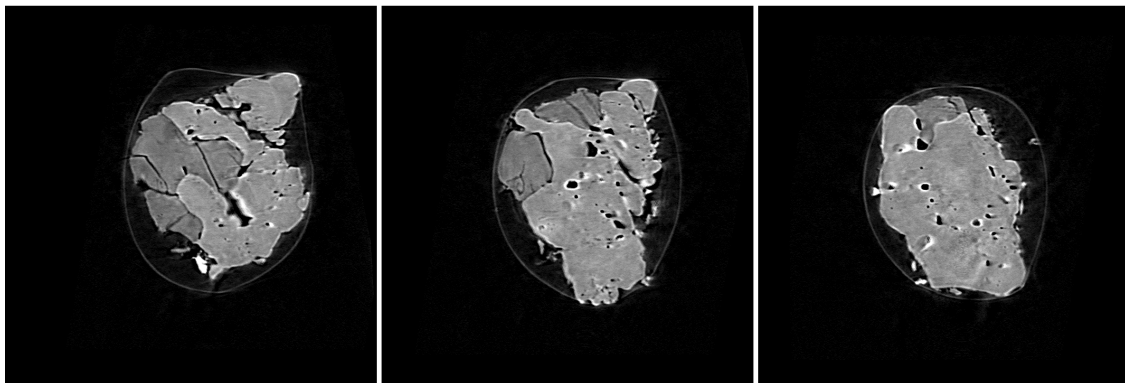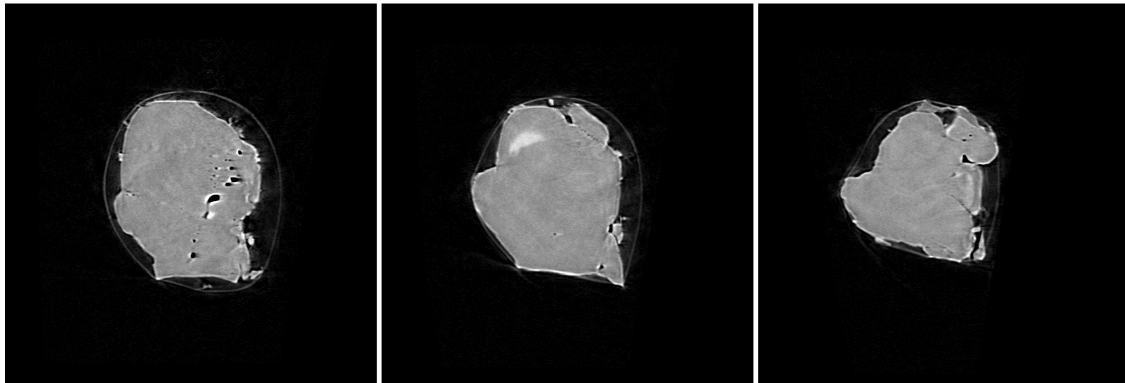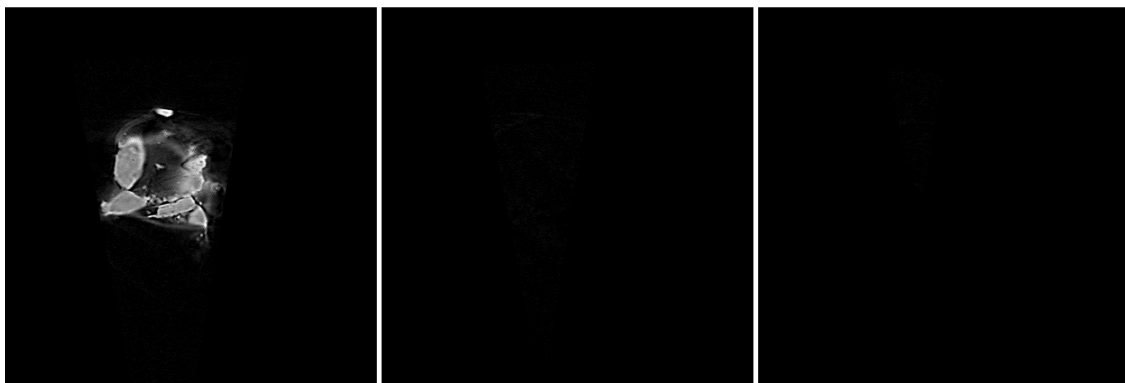
dZ = 5.39721 um

10 um

287 cm-1 (LAC)

RA-QD02-0058 8 keV catalogue
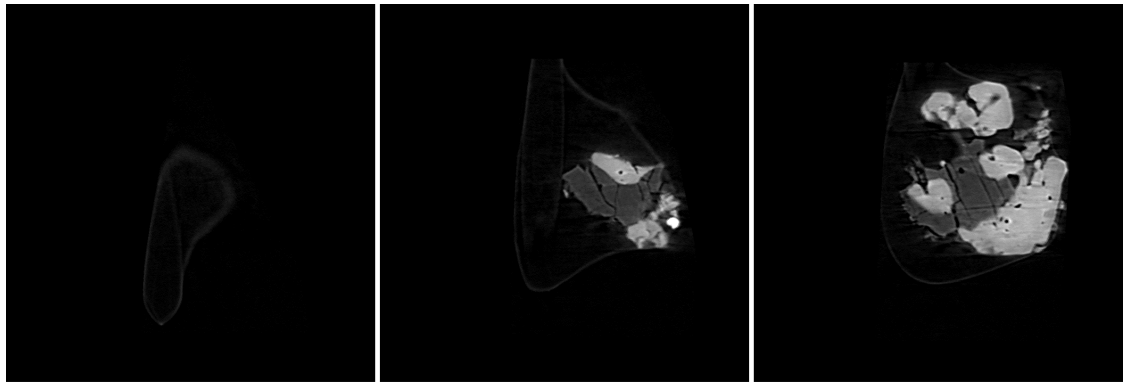
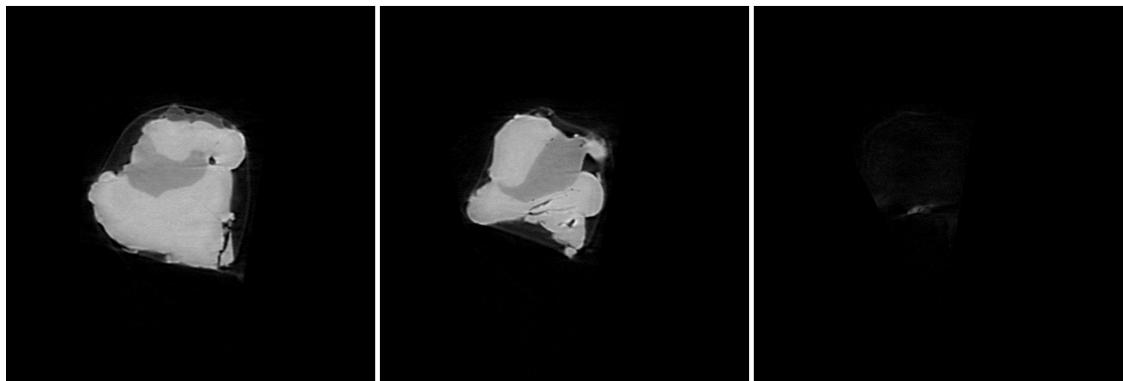|		
187.tif	237.tif	287.tif
337.tif	387.tif	437.tif
487.tif	537.tif	587.tif
637.tif	687.tif	737.tif
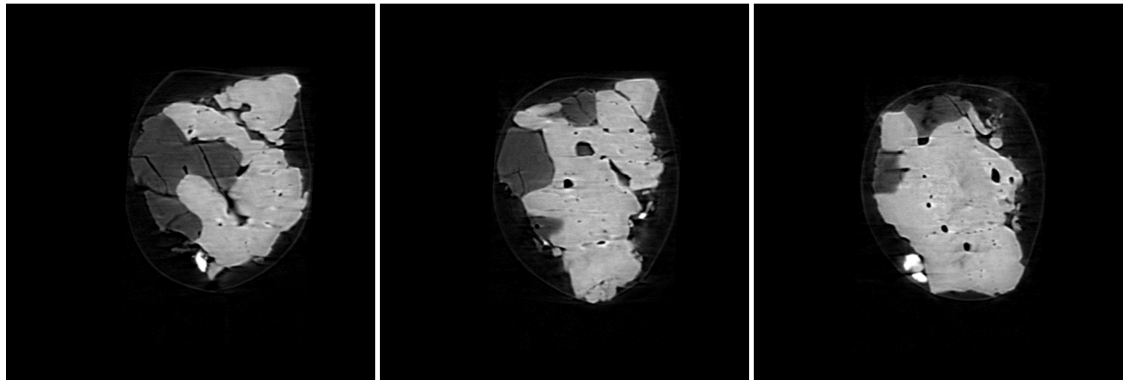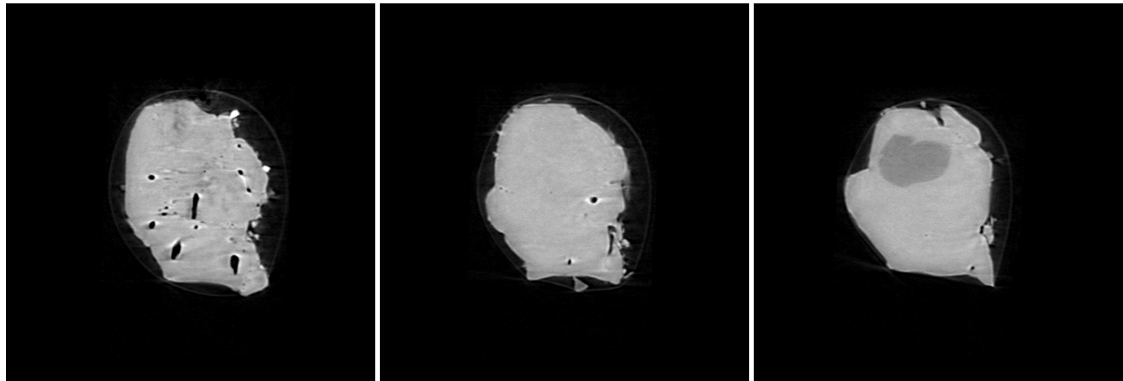
dZ = 4.28350 um

10 um

431 cm-1   (LAC)

RA-QD02-0058   Dual energy histogram