

Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0038

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	OI	LPx	HPx	PI	Tr	Tae	Chm	CP	Kam
Vol %	4.95	83.72		6.24	4.98		0.12		

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-QD02-0038

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

Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	4.95	83.72		6.24	4.98		0.12		

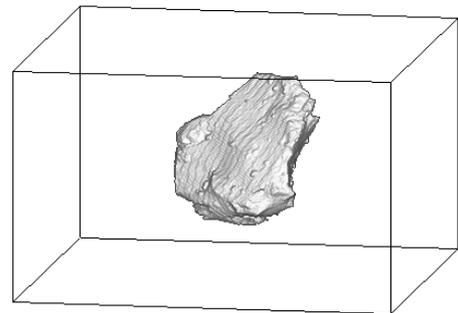
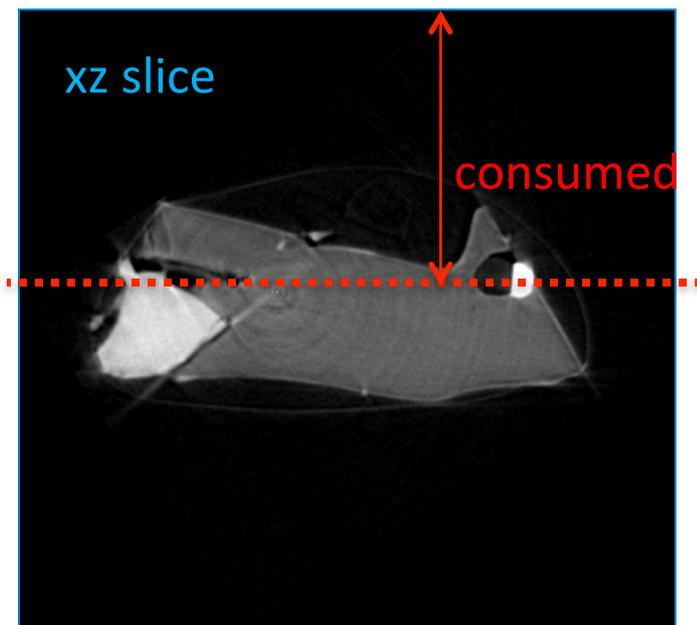
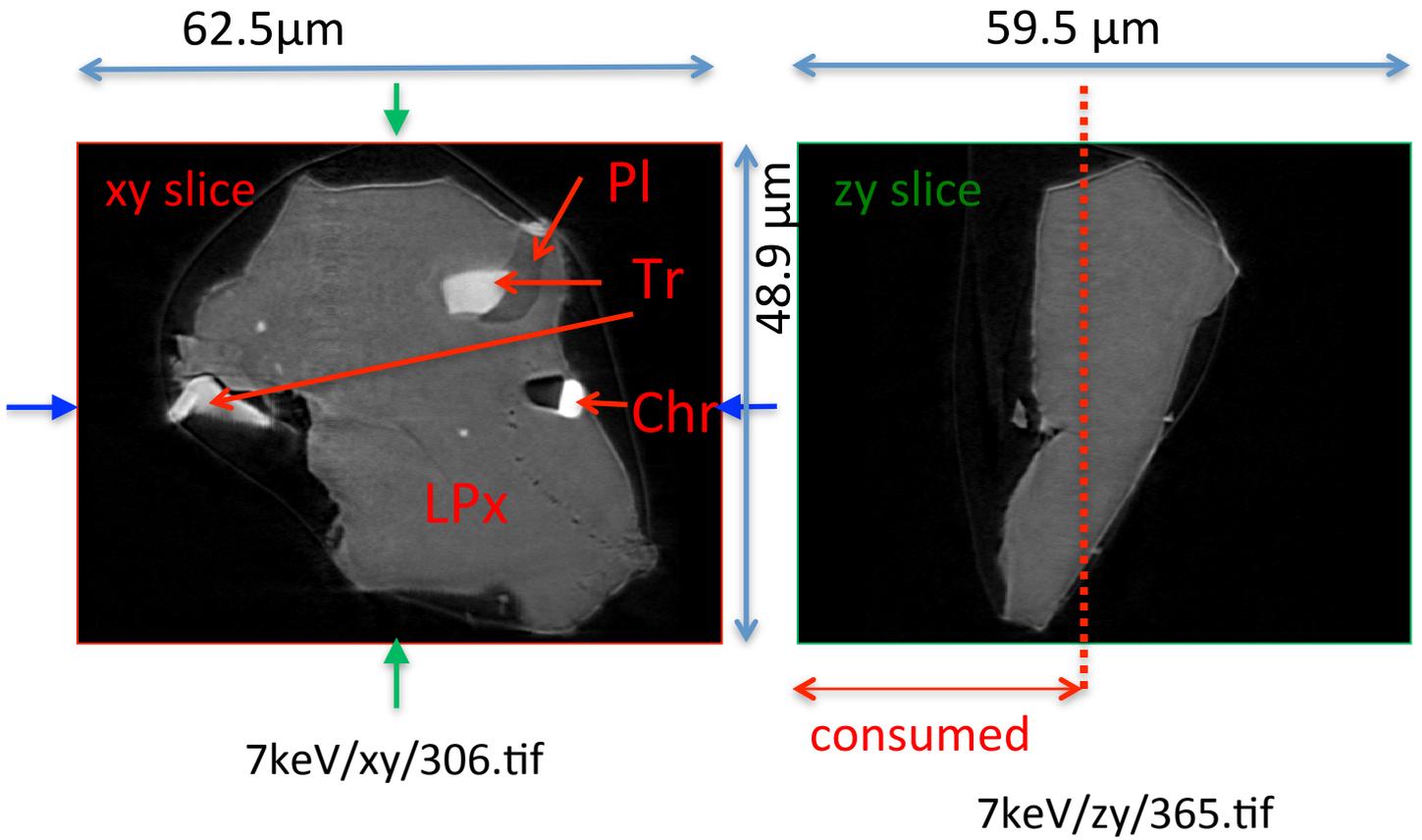
A (μm)	B (μm)	C (μm)	V (μm^3)	Porosity (%)
9.5	21.4	27.3	19478	4.4

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

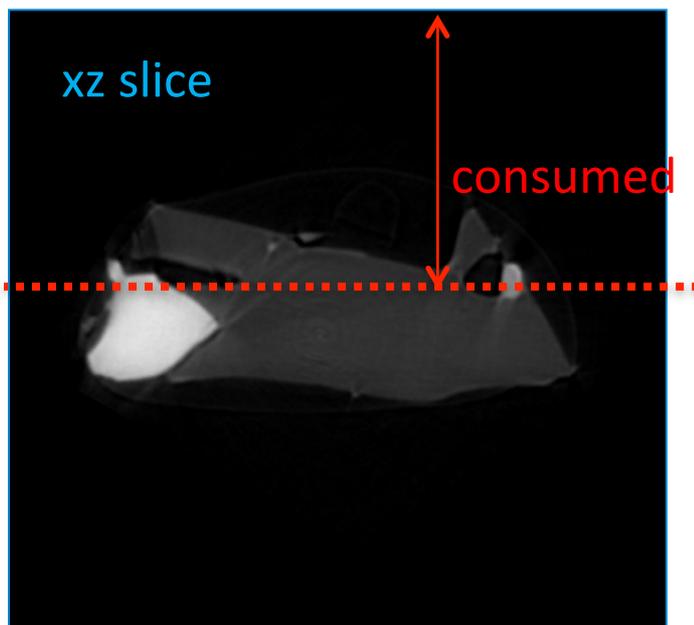
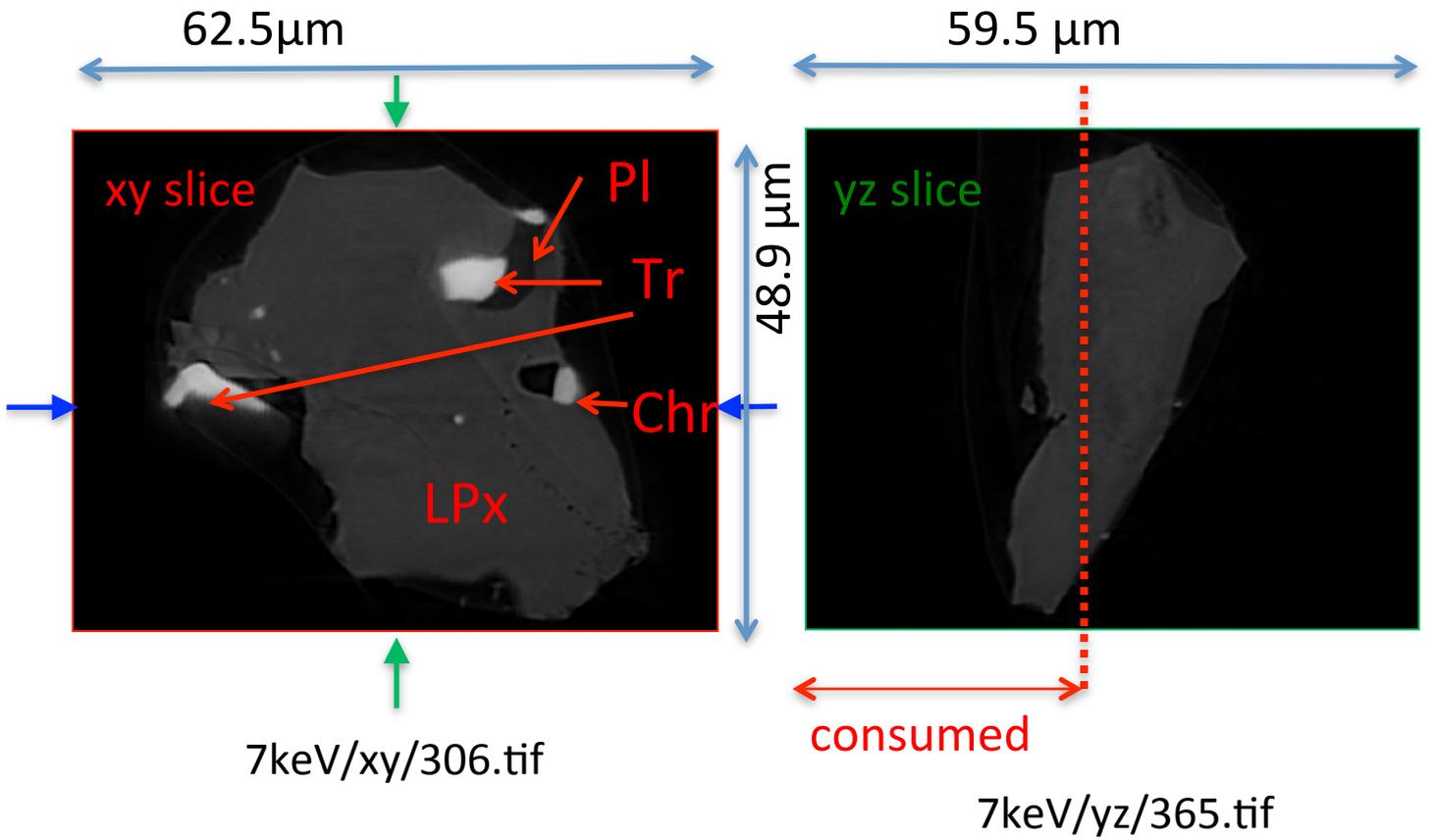
A, B, and C: shortest, middle, and longest axial radii, respectively,
of a best-fit ellipsoid for the particle

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

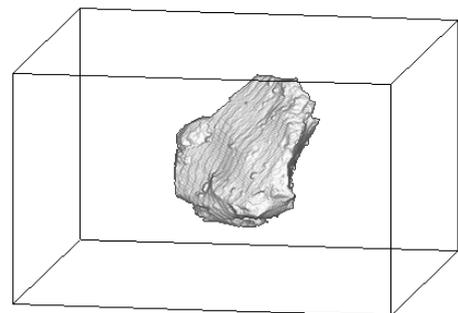
RA-QD02-0038 7keV



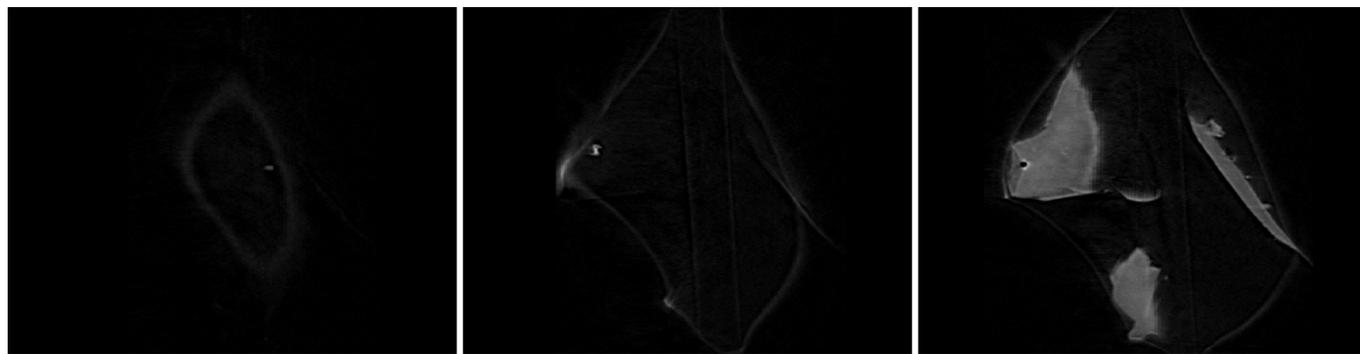
RA-QD02-0038 8keV



7keV/xz/286.tif



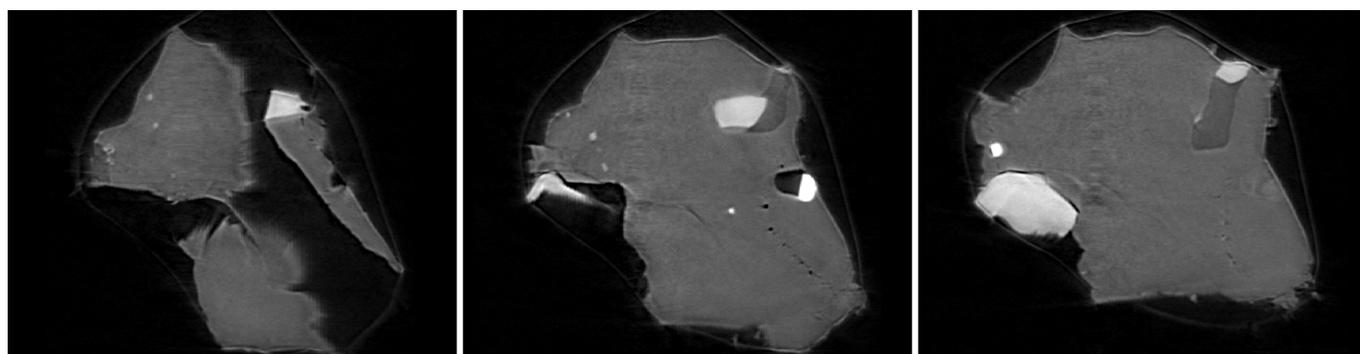
RA-QD02-0038 7keV catalogue



186.tif

215.tif

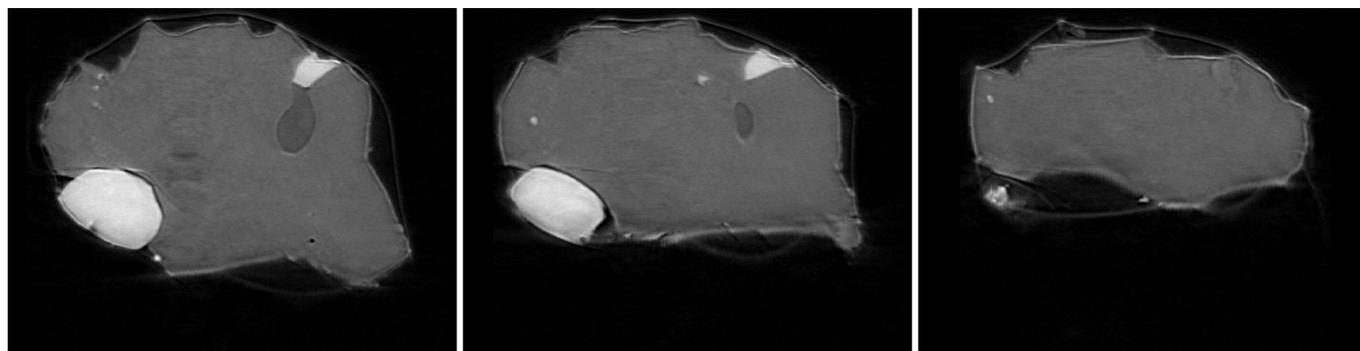
244.tif



273.tif

302.tif

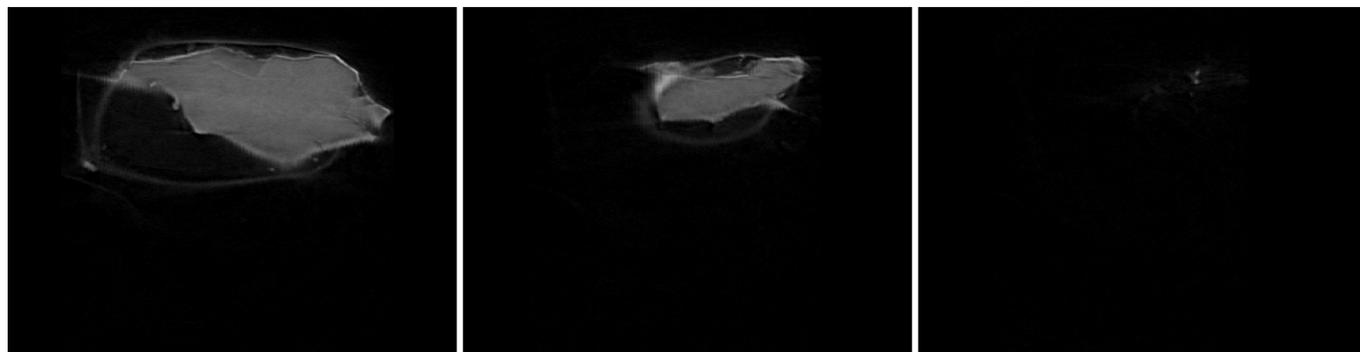
331.tif



360.tif

389.tif

418.tif

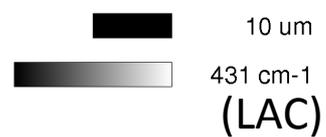


447.tif

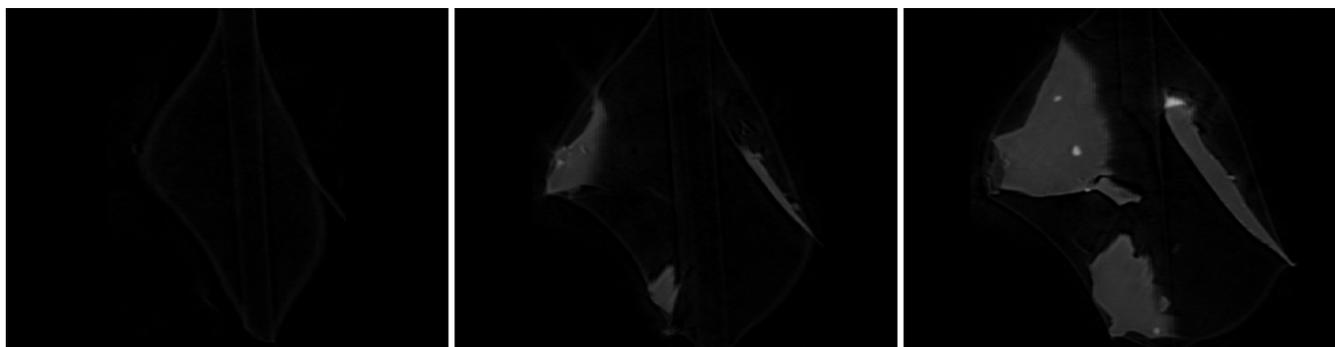
476.tif

505.tif

dZ = 2.484 μm



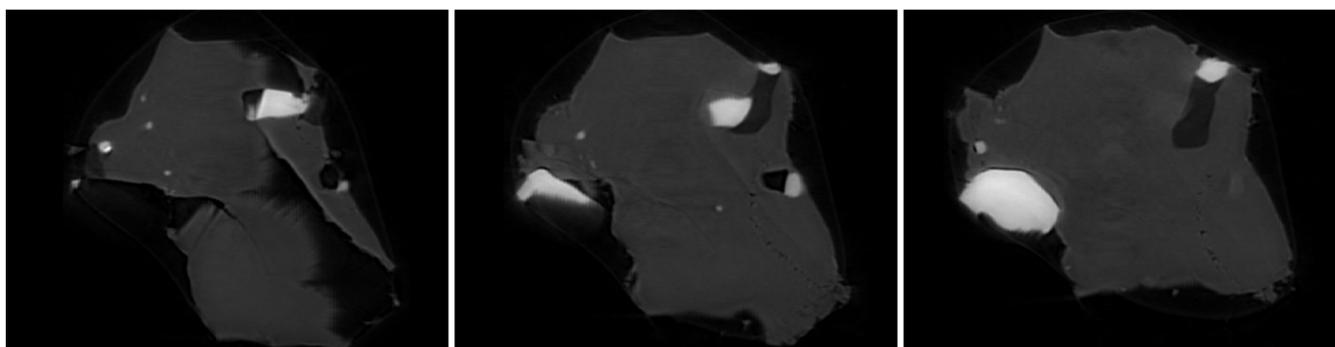
RA-QD02-0038 8keV catalogue



204.tif

230.tif

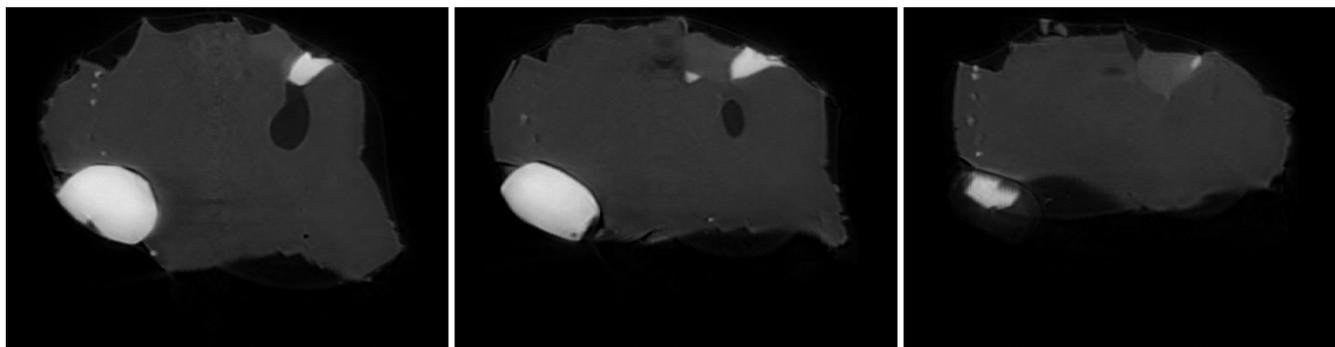
256.tif



282.tif

308.tif

334.tif



360.tif

386.tif

412.tif



438.tif

464.tif

490.tif

$dZ = 2.227 \mu\text{m}$



RA-QD02-0038 Dual energy histogram

