

Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0043

PI: Akira Tsuchiyama

Type and date of analysis performed:

Tomography Jan/22/2011 (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 %	90.4		3.47	6.08	0.05				

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-QD02-0043

Operation Date Jan/22/2011 (7 keV)
 Jan/24/2011 (8 keV)
operated by T. Matsumoto (7 keV)
 T. Matsumoto (8 keV)
analyzed by T. Nagano

Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	90.4		3.47	6.08	0.05				

A (μm)	B (μm)	C (μm)	V (μm ³)	Porosity (%)
29.7	36.5	43.7	171230	4.59

Ol: olivine

LPx: low calcium pyroxene

HPx: high calcium pyroxene

Pl: plagioclase

Tr: troilite

Tae: taenite

Chm: chromite

CP: calcium phosphate

Kam: kamacite

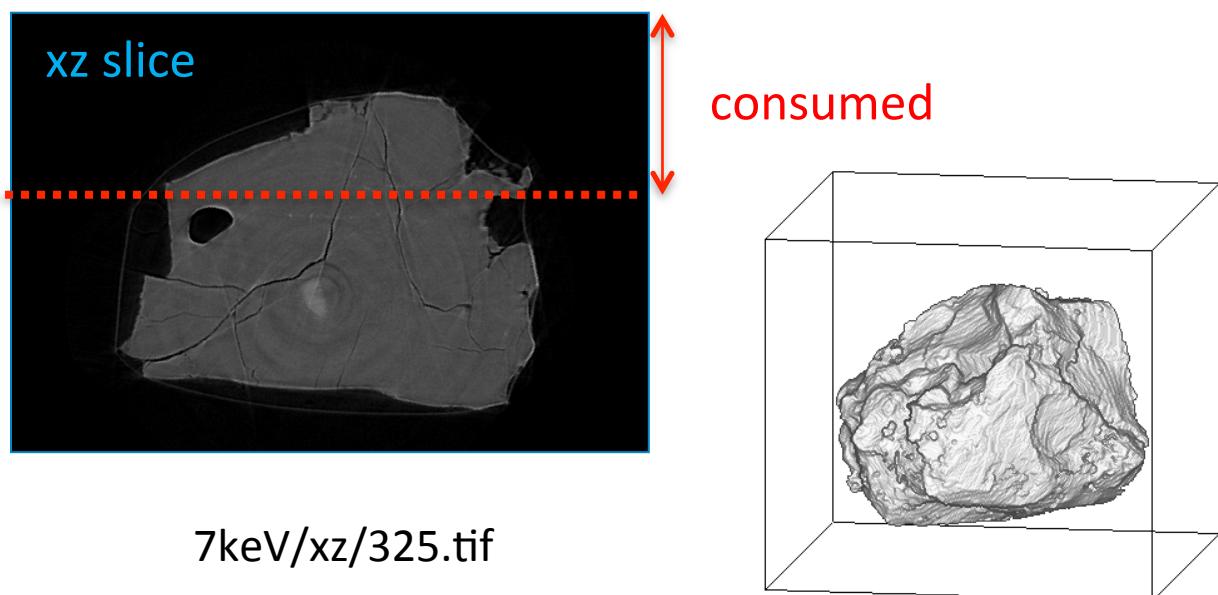
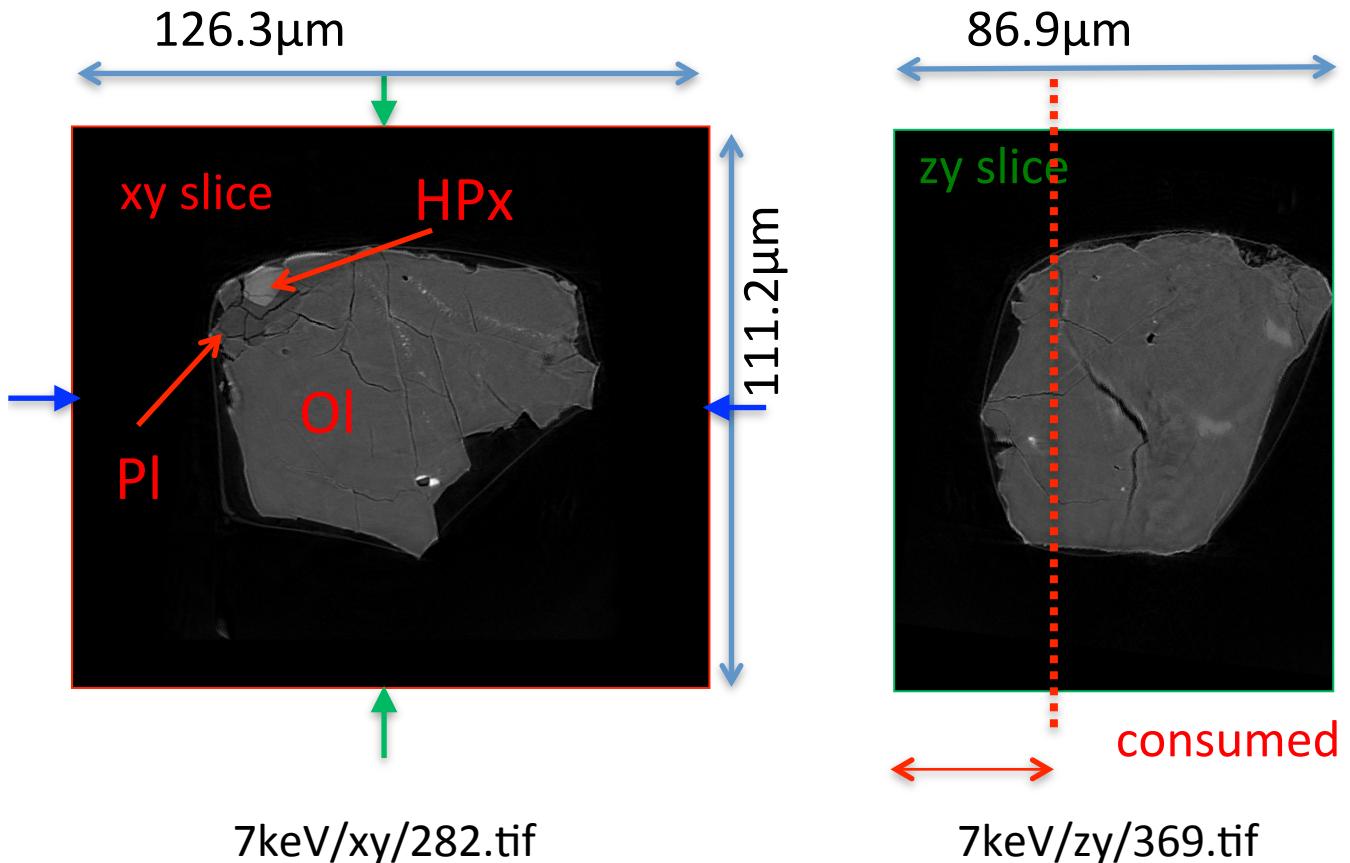
A, B, and C: shortest, middle, and longest axial radii, respectively, of a best-fit ellipsoid for the particle

V: particle volume without pore

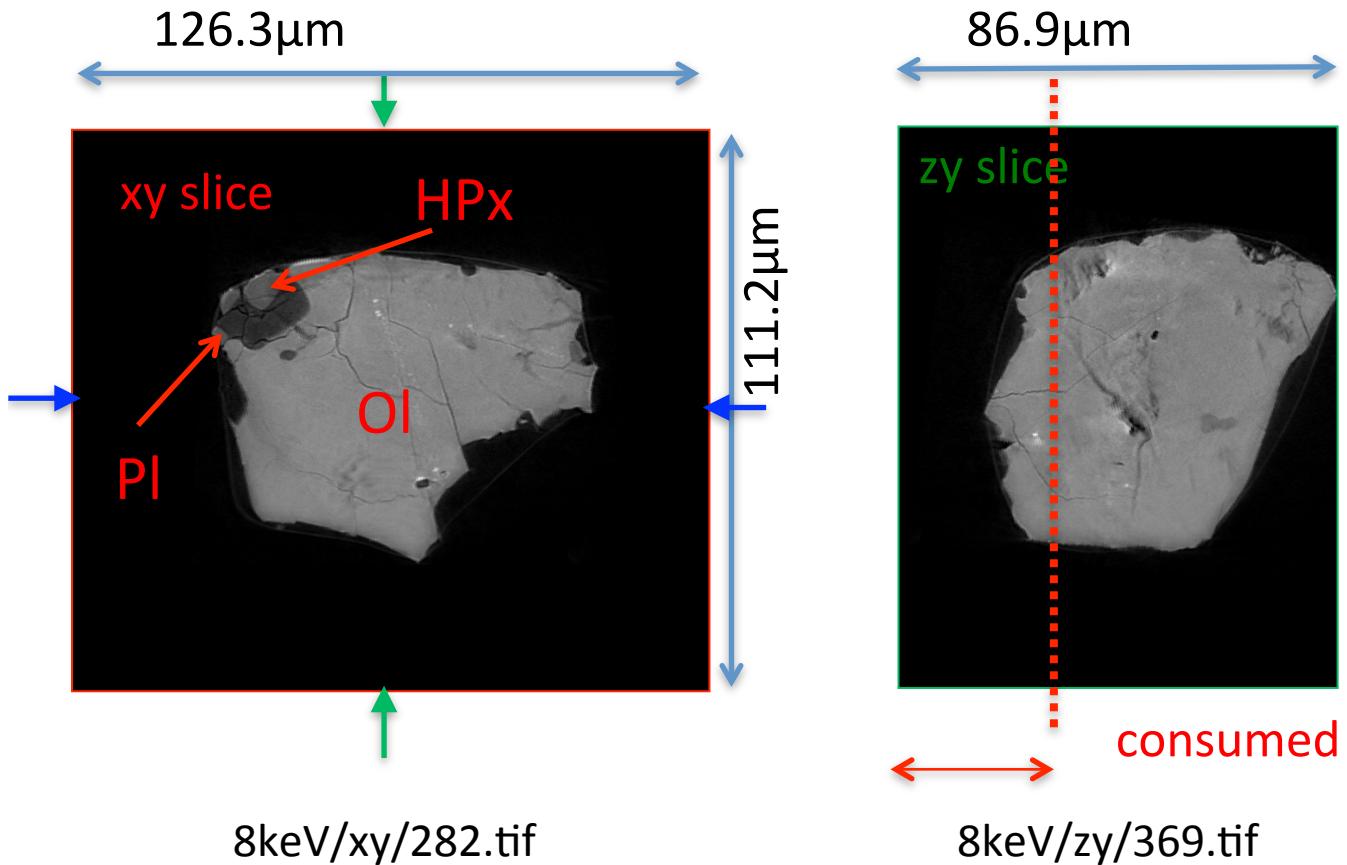
dz: CT image interval

LAC: linear attenuation coefficient of X-ray

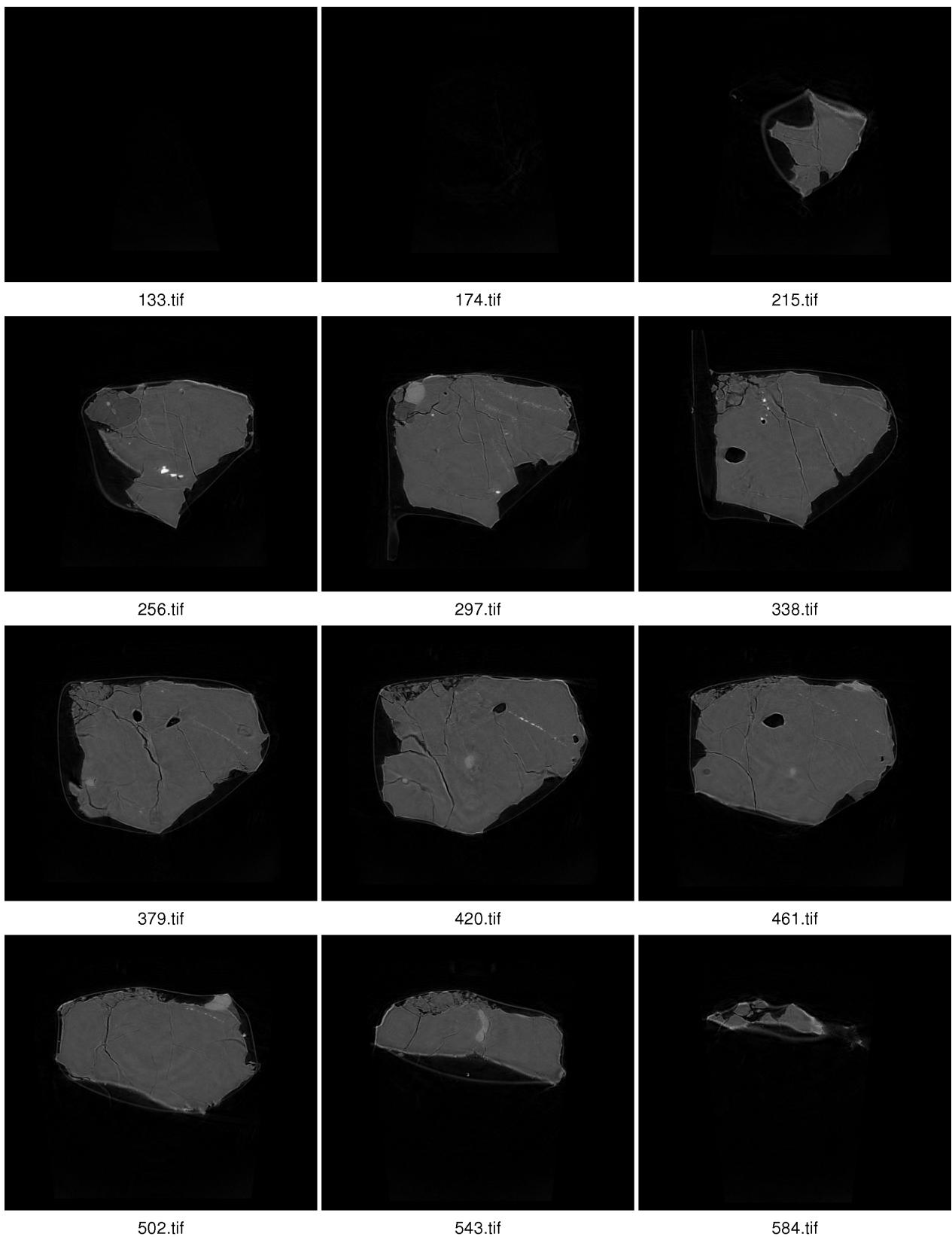
RA-QD02-0043 7keV



RA-QD02-0043 8keV



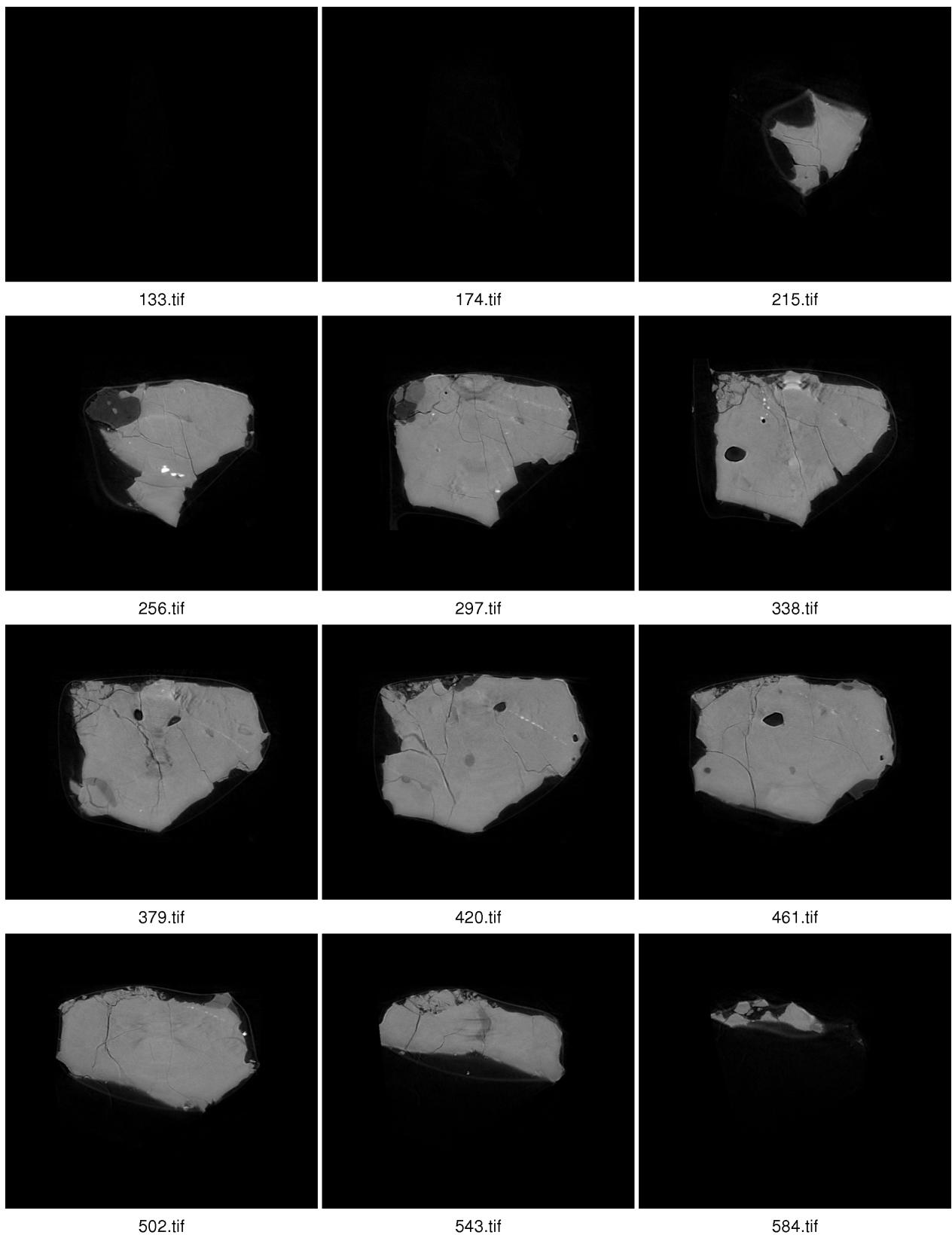
RA-QD02-0043 7keV catalogue



dZ = 7.02494 um

21 um
575 cm⁻¹
(LAC)

RA-QD02-0043 8keV catalogue



$dZ = 7.02494 \text{ } \mu\text{m}$

21 μm
 575 cm^{-1}
(LAC)

RA-QD02-0043 Dual energy histogram

