

## Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

**Sample ID:** RA-QD02-0030

**PI:** Tomoki Nakamura

**Type and date of analysis performed:**

XRD Jan/28/2011~ Feb/3/2011

FE-SEM, FE-EPMA Feb/19/2011~ Feb/28/2011

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

XRD : Ol, Pl, LPx, Tae

FE-SEM : Ol, Pl, LPx, Tae, Chr, Kam, Tr

FE-EPMA : Si, Ti, Al, Fe, Mn, Mg, Ca, Na, K, Cr, Ni, P, S

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

N/A

**Sample handling:**

XRD

Attached to carbon fiber with resin.

FE-SEM, FE-EPMA

Exposed in atmosphere.

Polished by M cross

C-coated (20 nm)

**State of sample pre-analysis:**

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded (FE-SEM, FE-EPMA)

**State of sample post-analysis:**

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded, C-coated (FE-SEM, FE-EPMA)

N<sub>2</sub> hold in sample holder.

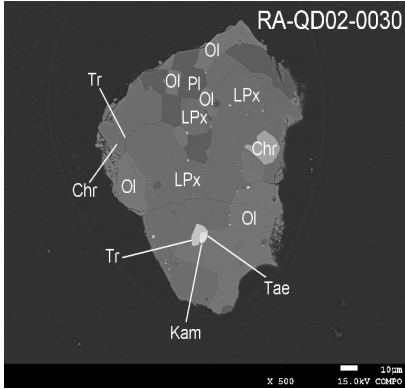
**Analysis data Notes:** (summary of the attached analysis data and/or images)

See attached sheets.

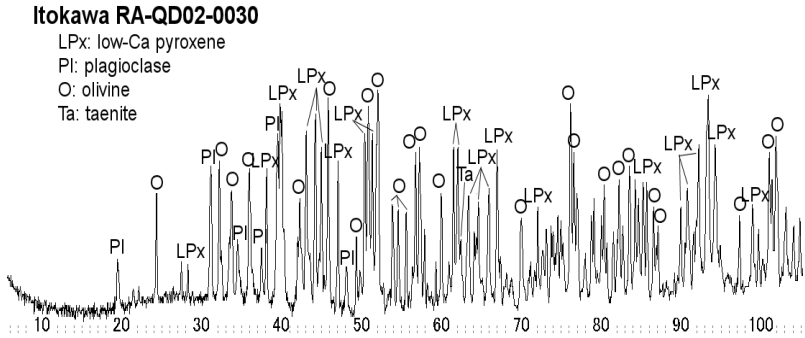
# RA-QD02-0030

Analysis S-XRD (polish) FE-SEM FE-EPMA  
 Present status Putted butt with some SIMS spots

FE-SEM/BSE



S-XRD



FE-EPMA

wt%	Olivine n=1	Ol 1 sigma	LPx n=19	Px 1 sigma	HPx n=1	HPx 1 sigma	plagi n=1	Pl 1 sigma
SiO2	38.09	0.26	55.33	0.26			64.39	0.81
TiO2	0.03	0.04	0.17	0.04			0.04	0.04
Al2O3	0.01	0.01	0.15	0.03			19.81	0.39
FeO	26.55	0.43	15.93	0.18			0.62	0.34
MnO	0.46	0.04	0.45	0.06			0.02	0.02
MgO	35.91	0.55	27.38	0.24			0.26	0.61
CaO	0.01	0.01	0.90	0.10			2.23	0.34
Na2O	0.01	0.01	0.02	0.01			9.93	0.22
K2O	0.01	0.01	0.00	0.00			0.98	0.12
Cr2O3	0.03	0.08	0.14	0.04			0.01	0.02
NiO	0.01	0.04	0.03	0.03			0.04	0.04
P2O5	0.04	0.05	0.01	0.01			0.08	0.23
SO3	0.01	0.02	0.02	0.03			0.01	0.03
Total	101.17	0.49	100.53	0.42			98.42	0.57

SUM

Comment

Olivine (Fa#)	29.32	0.56		
LPx(Fs#)			24.17	0.16
LPx(Wo#)			1.76	0.20
LPx(En#)			74.08	0.21
HPx(Fs#)				
HPx(Wo#)				
HPx(En#)				
Pl(Or#)				5.48 0.67
Pl(An#)				10.43 1.37
Pl(Ab#)				84.09 1.57