

Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RB-QD04-0047-02

PI: Fumio Kitajima

Type and date of analysis performed:

micro-IR/Raman (19 July 2013) with Perkin Elmer Spectrum One (IR), JEOL JRS-SYSTEM 2000 (Raman)

Elements or phases identified:

O-H (3300 cm^{-1}), Imide C=O (1729 cm^{-1}), Amide C=O (1685 cm^{-1}), Aromatic C=C (1506 cm^{-1})
Raman G- and D-band (maybe artifact)

Contaminant phases identified:

n/a

Sample handling: Exposed in atmosphere.

Exposed in atmosphere

State of sample pre-analysis:

Pressed on a gold plate at PMSCF/JAXA, Transported in N_2 , Analysis was performed in atmosphere

State of sample post-analysis:

On a gold plate in N_2

Analysis data Notes:

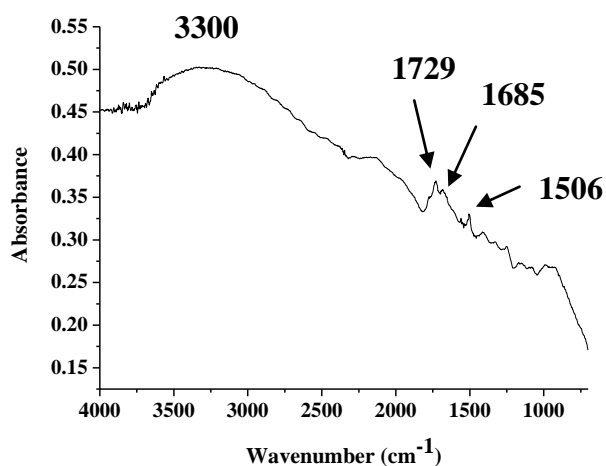
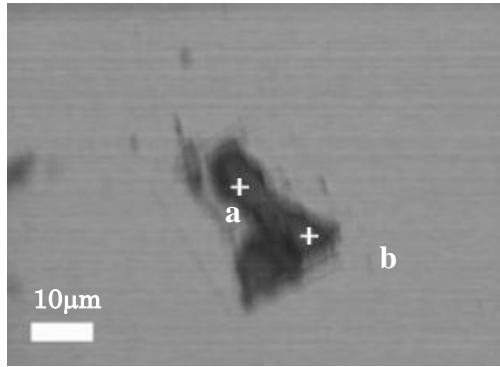
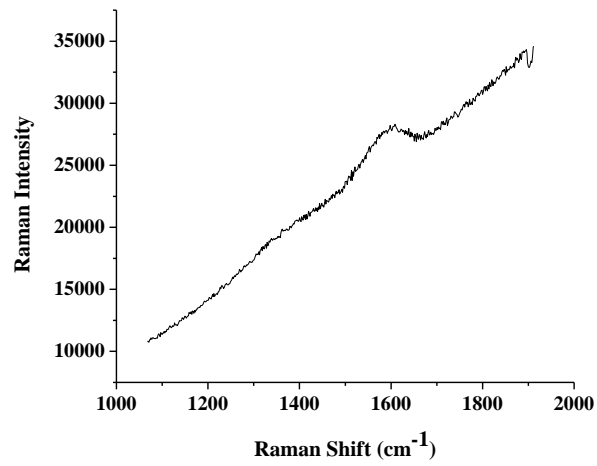


Fig. 1 IR (reflectance) spectrum of RB-QD04-0047-02



a



b

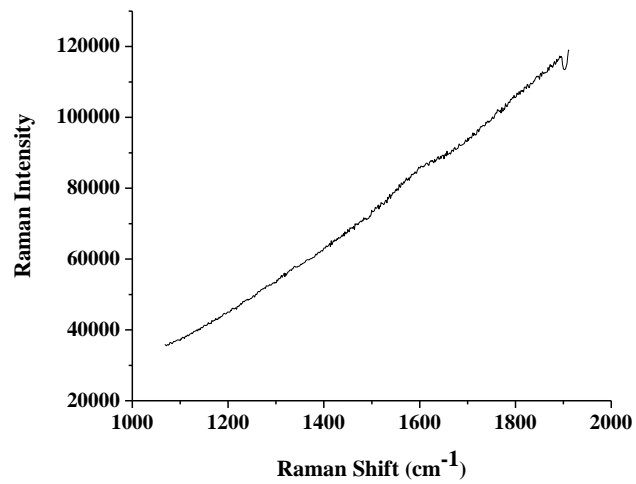


Fig.2 Raman spectra of RB-QD04-0047-02

The cross (+) indicates the point at which analysis was performed

Detailed results are described in Kitajima et al. *Earth Planets and Space*