



Experiment title: Static structure of liquid Rb at high pressure and temperature investigated by means of x-ray absorption (XAS) and diffraction (XRD).

Experiment number:
HD-635

Beamline:
ID27

Date of experiment:
from: 01/03/2013 to:04/03/2013

Date of report:

Shifts:
9

Local contact(s):
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Received at ESRF:

Names and affiliations of applicants (* indicates experimentalists):

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Report:

Solid Rb was inserted in a laser drilled polyethylene pellet inside a Re gasket. The loading was made in an oxygen and water free atmosphere inside a glove box.

Unfortunately liquid Rb at 573 K reacted with polyethylene irreversibly producing a black-grey solid material. We were not able to measure the XRD pattern of liquid Rb with this type of loading.