

# Results of contactless and non-invasive analysis: overview

**Project:** Digitization / Cataloguing of non-textual objects:  
Description and Digitization of Precious Book Covers as Independent Works of Art.  
Project-Period: 01.10.2014 - 30.09.2017

**Shelfmark:** Munich, Bayerische Staatsbibliothek, Cod.tibet. 636

**Analytical methods:** X-Ray Fluorescence Spectroscopy (XRF): p. 2-6  
Fourier Transform Infrared Spectroscopy (FTIR): p. 7-14

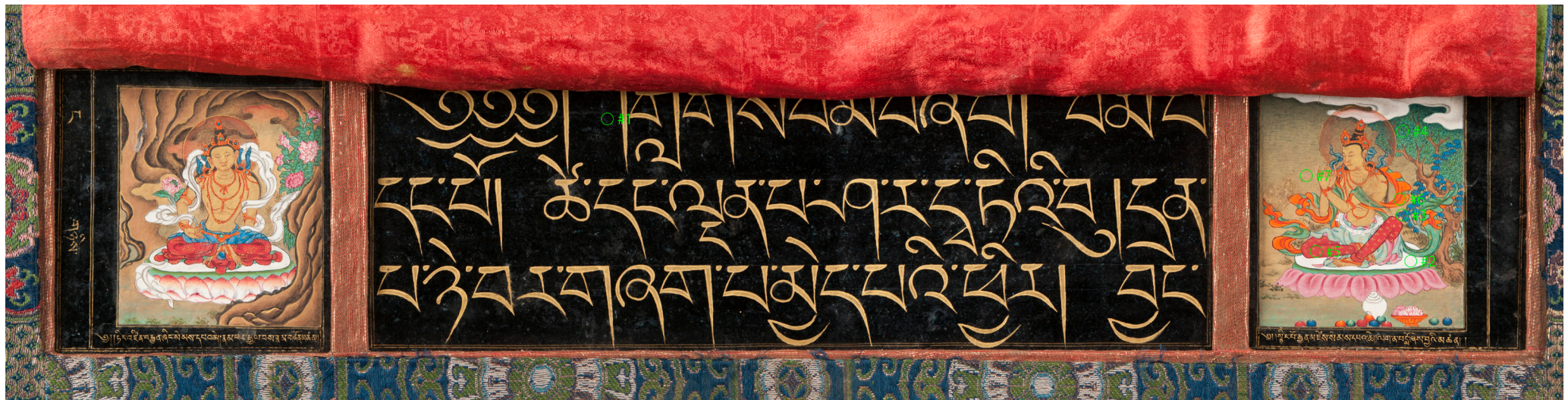
**Contact:** Institute of Conservation and Restoration (IBR)  
of the Bayerische Staatsbibliothek, Munich

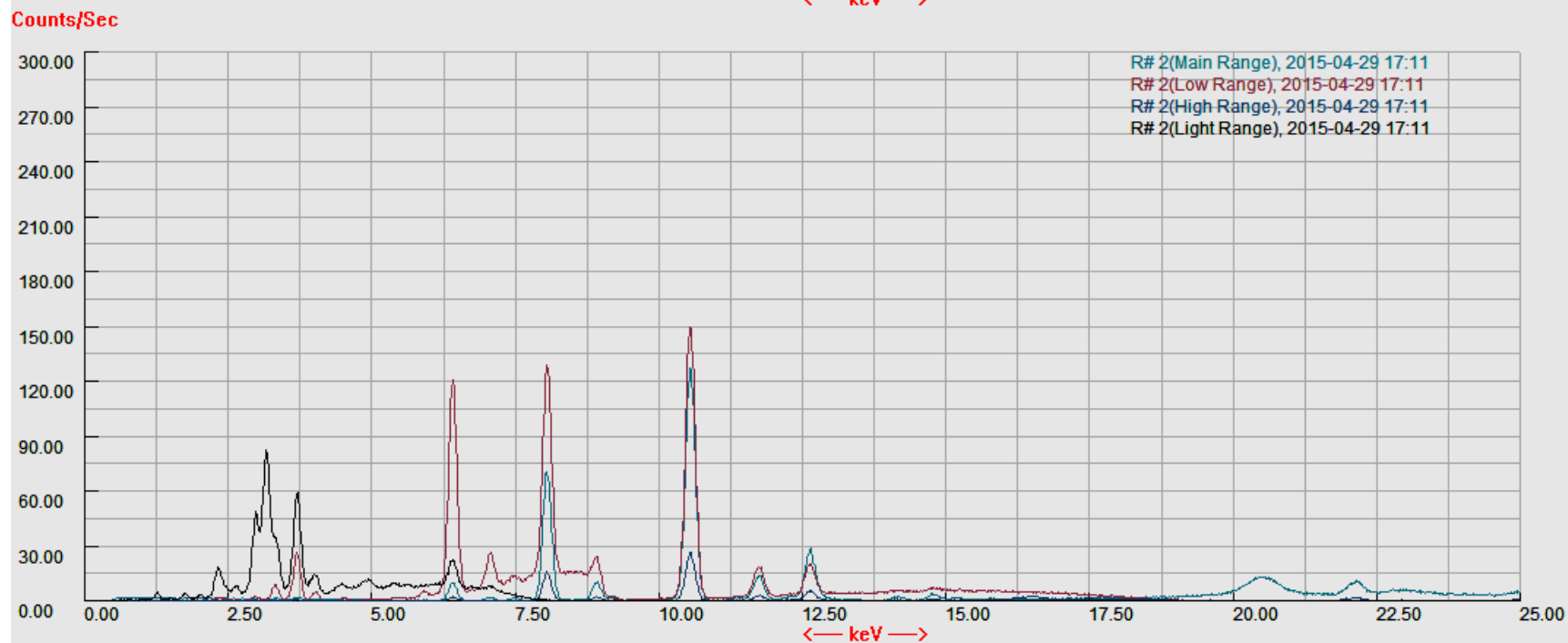
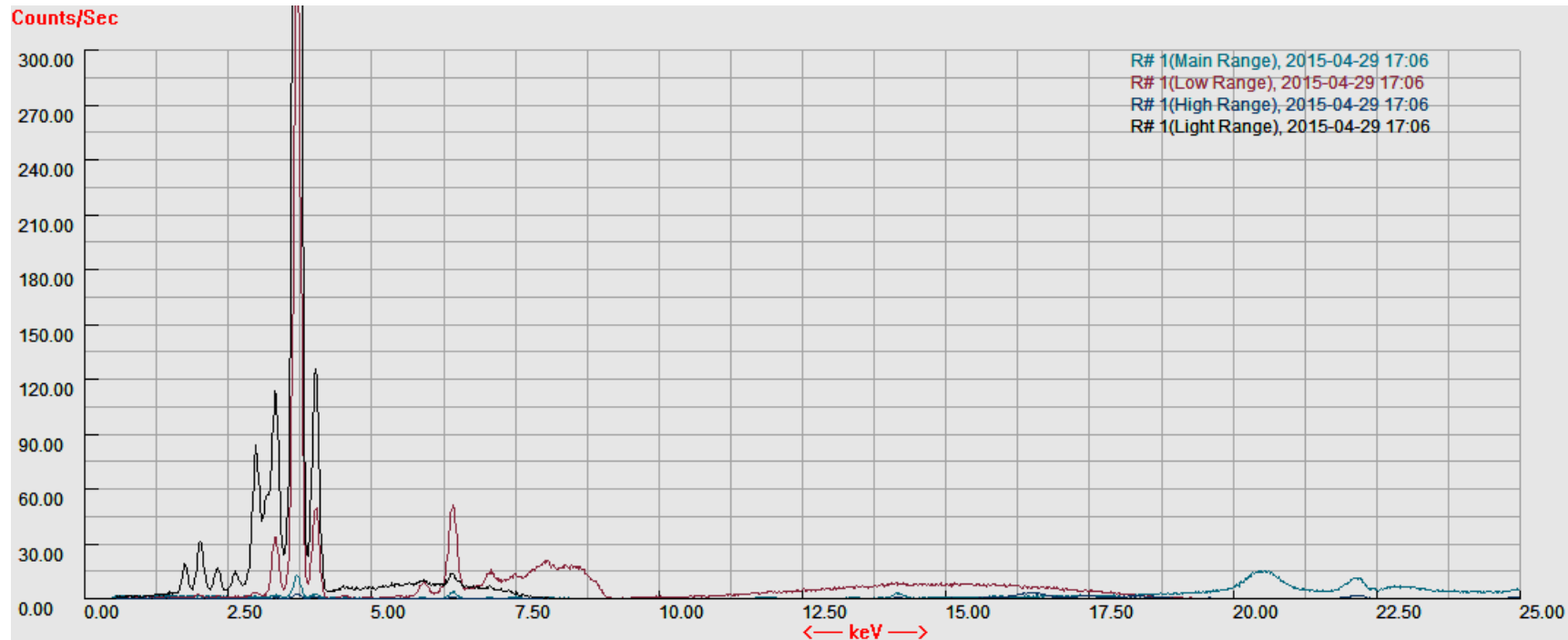
# XRF-Analysis: Mapping of measurement points and spectra

## Scanning parameters

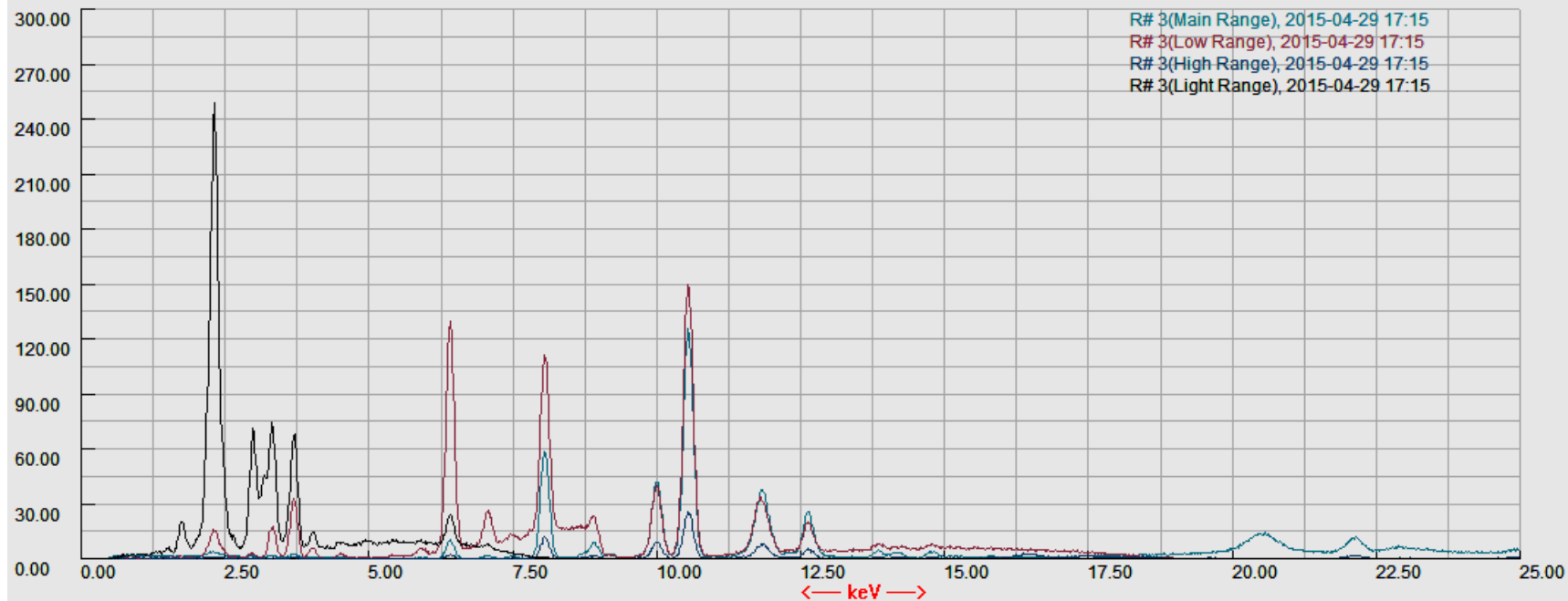
Instrument: NITON XL3t GOLD D+  
Scanning mode: Mining (Cu, Zn)  
Spectral resolution:  $4 \text{ cm}^{-1}$   
Scan duration: 150 s

Spectra: #1 ... #7

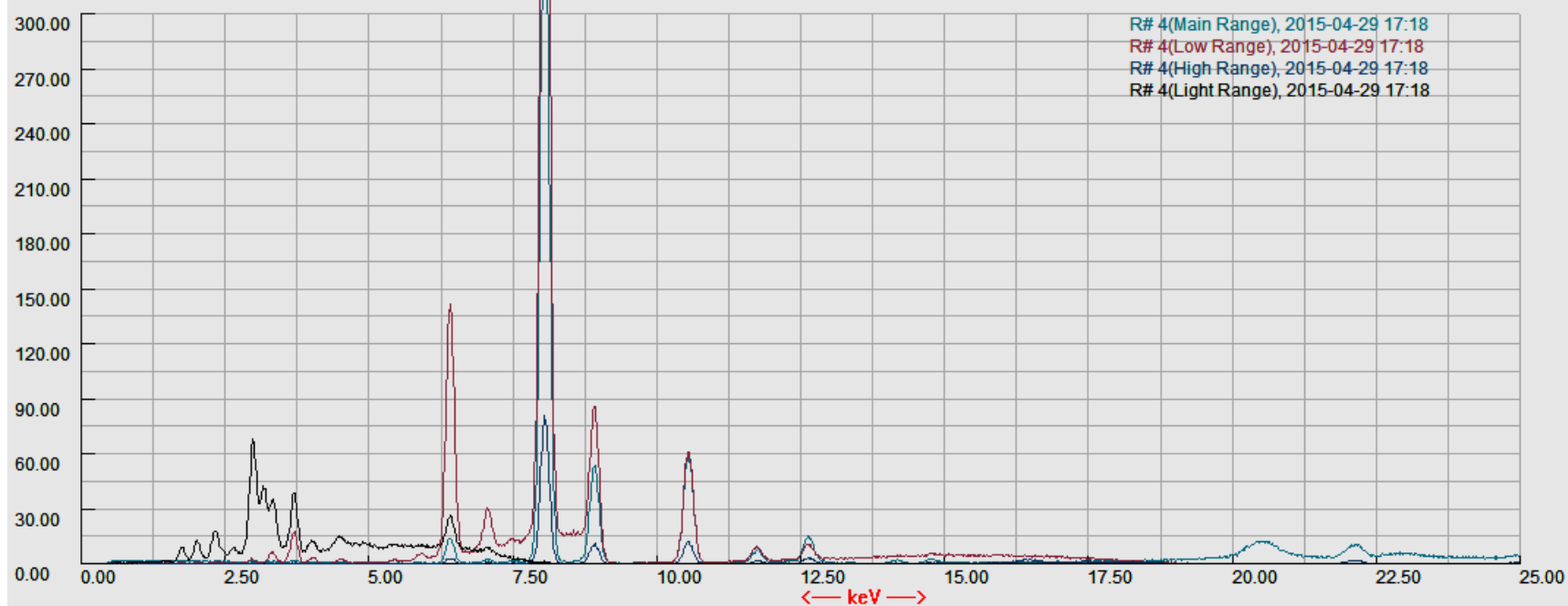


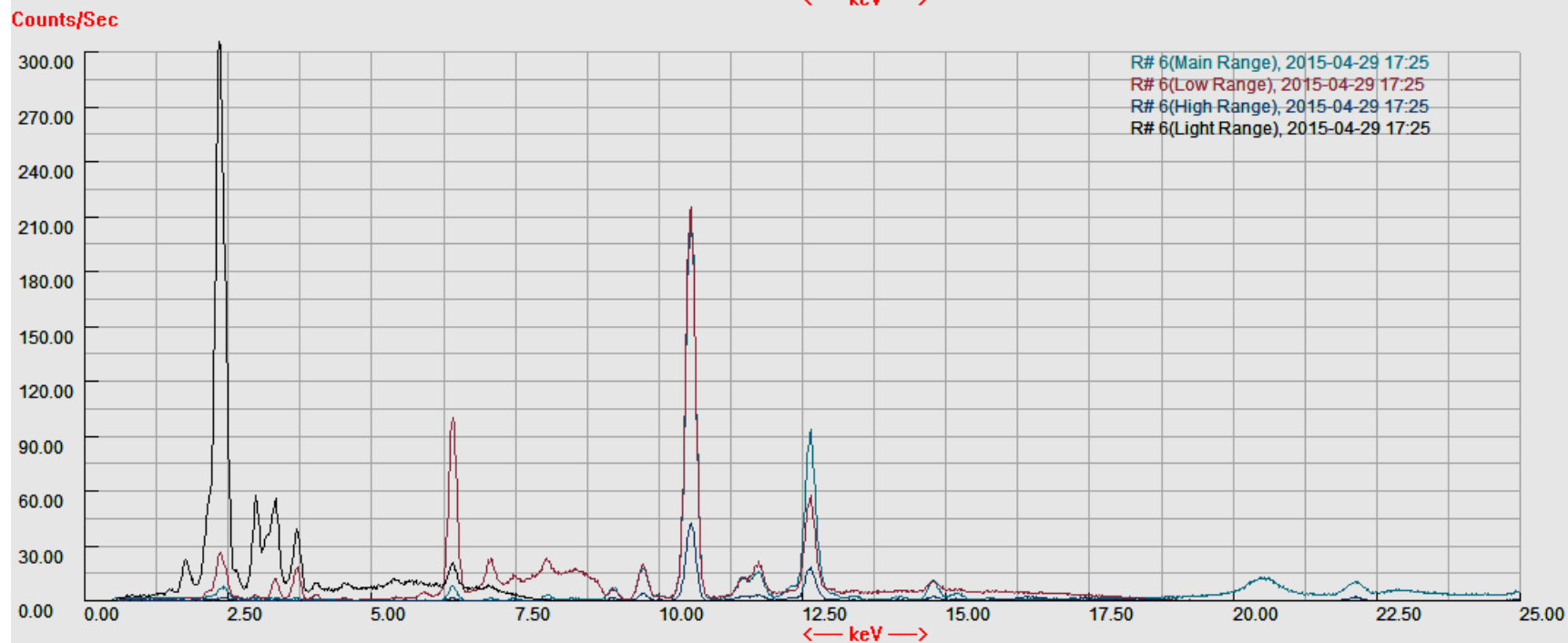
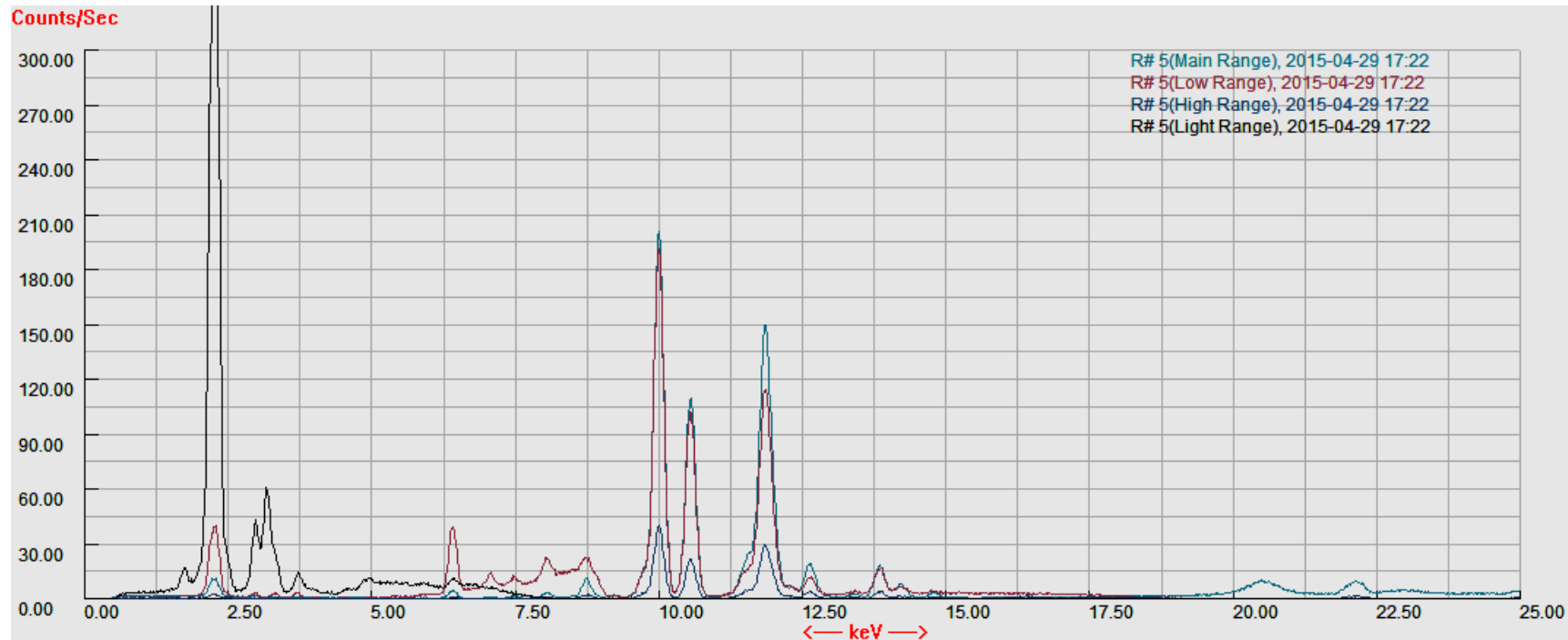


Counts/Sec

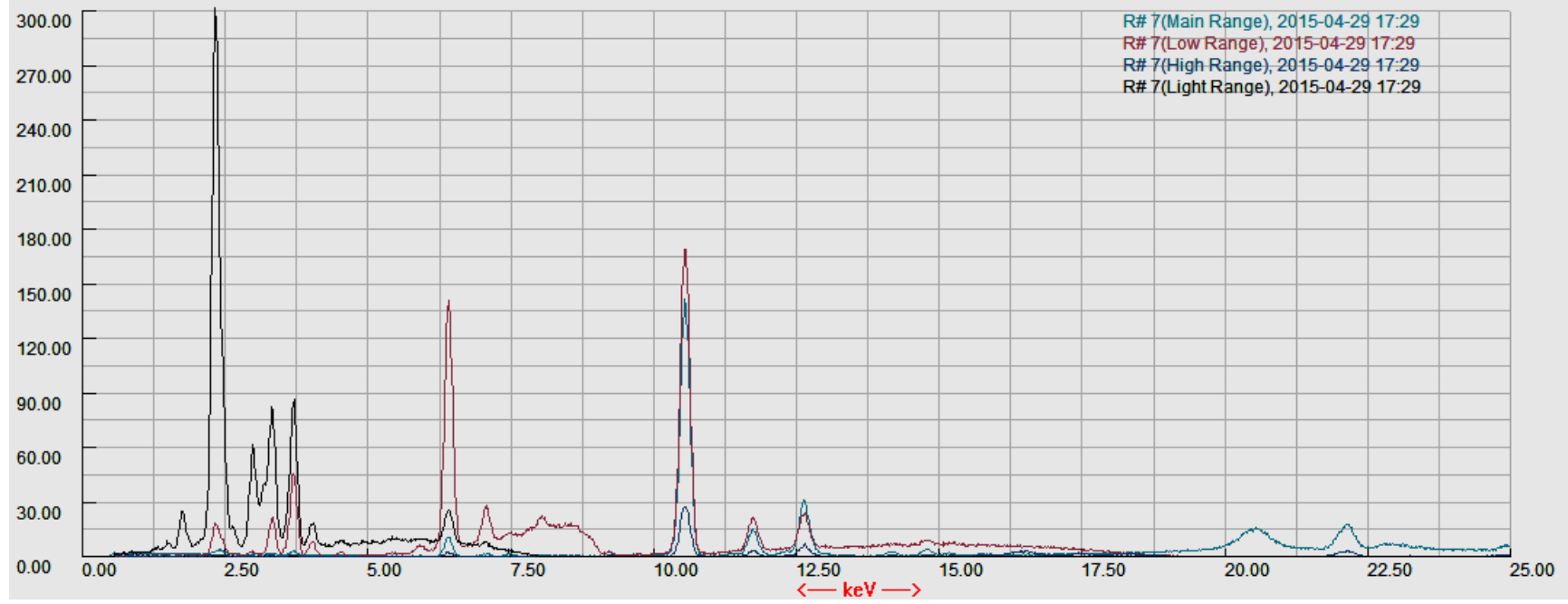


Counts/Sec





Counts/Sec

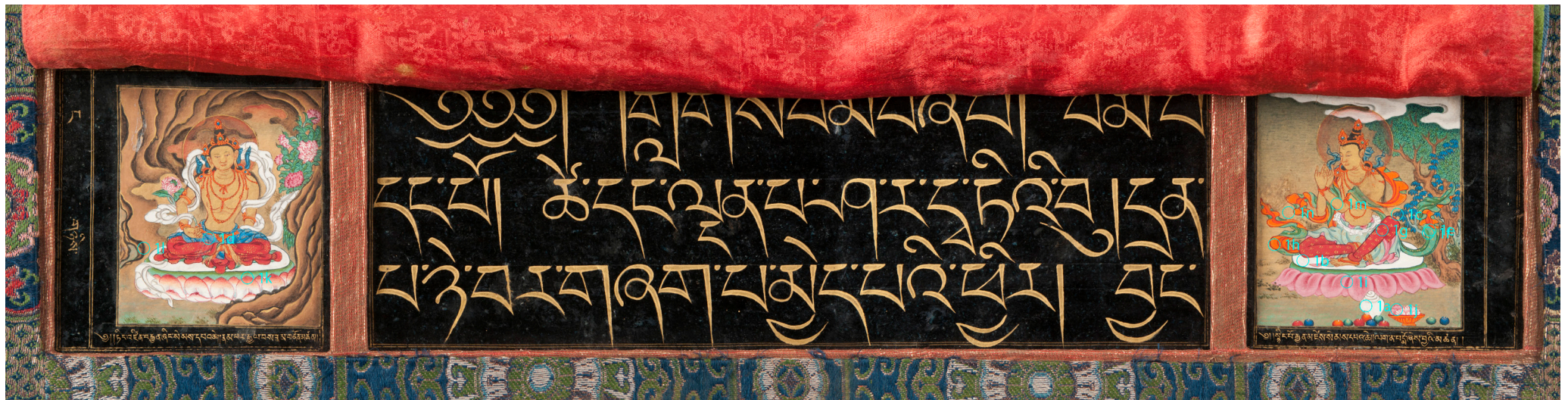


# FTIR-Analysis: Mapping of measurement points and spectra

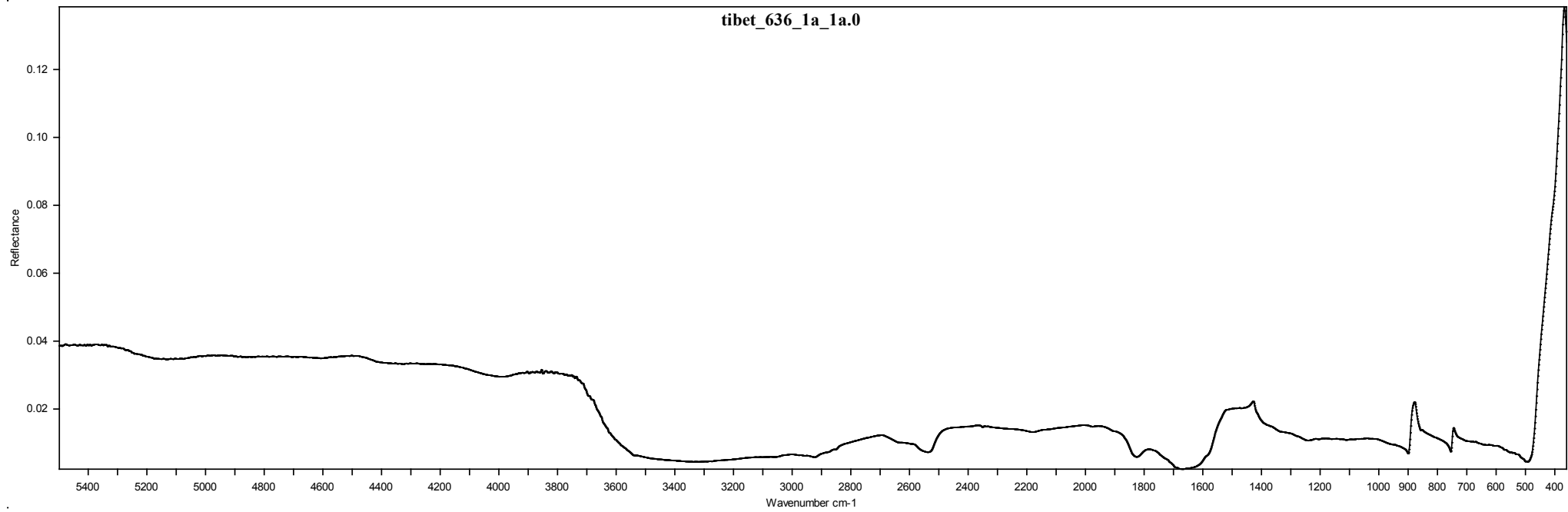
## Scanning parameters

Instrument: BRUKER ALPHA  
Scanning mode: FTIR external reflection mode  
Spectral resolution:  $4 \text{ cm}^{-1}$   
Spectral range:  $360\text{-}5400 \text{ cm}^{-1}$   
Scan duration: 240 scans

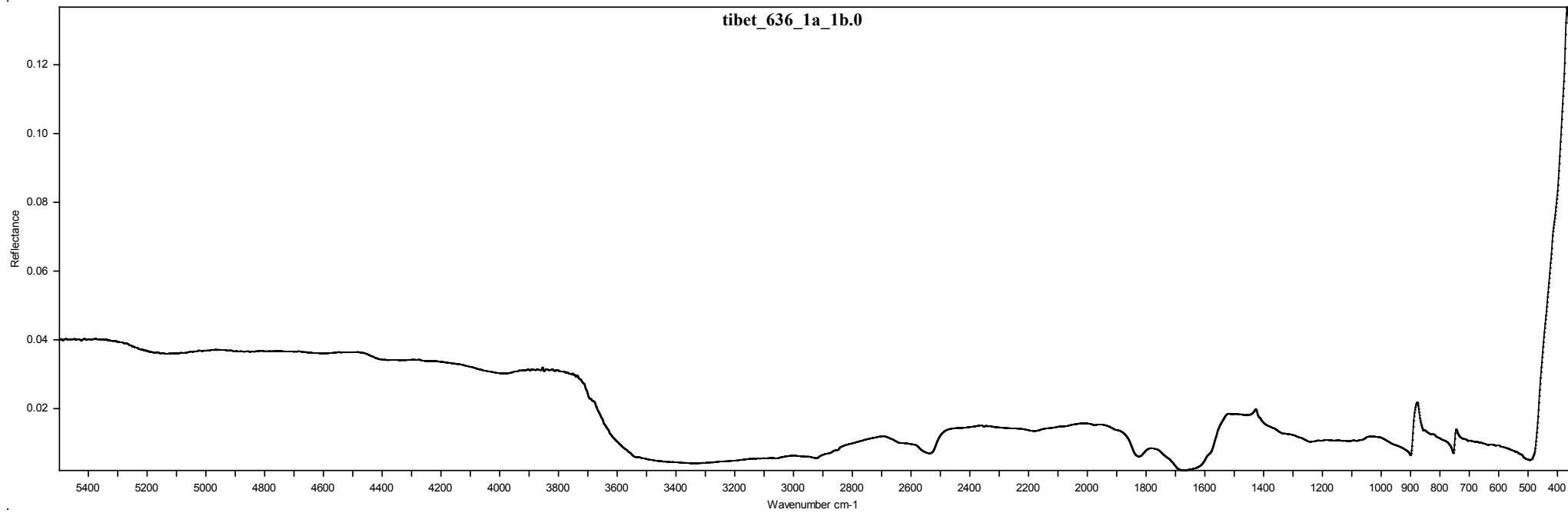
Spectra: tibet\_636\_1a\_1a ... \_1n  
(filename description: signature\_side a/b\_number of scan)



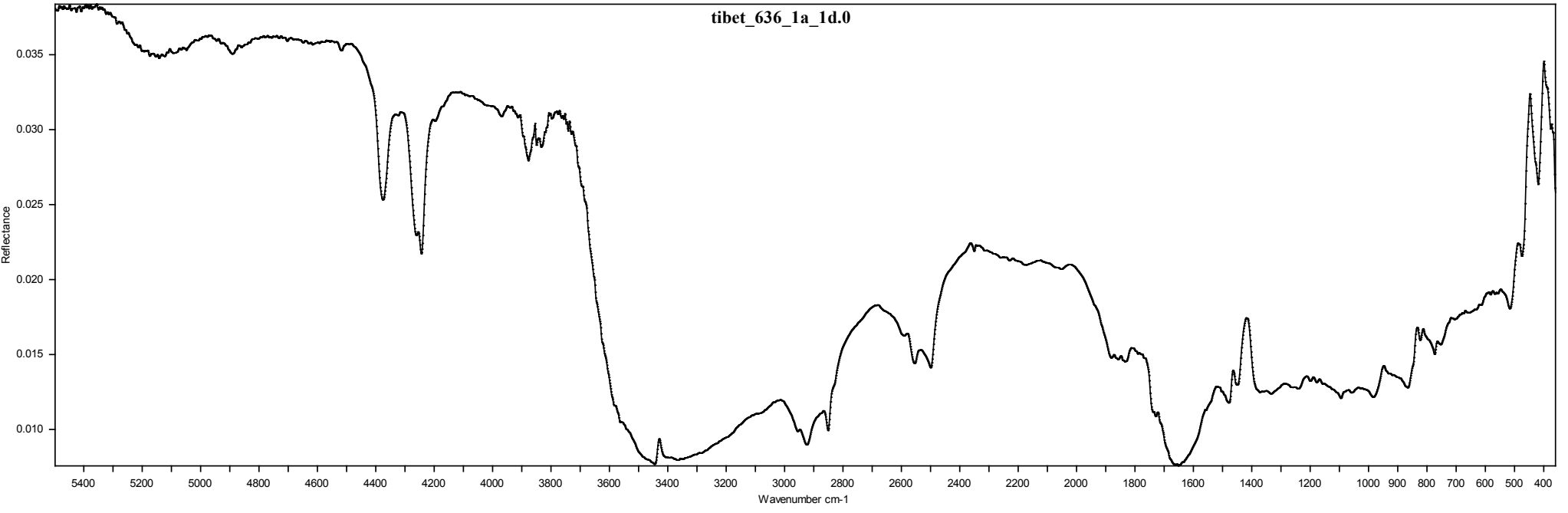
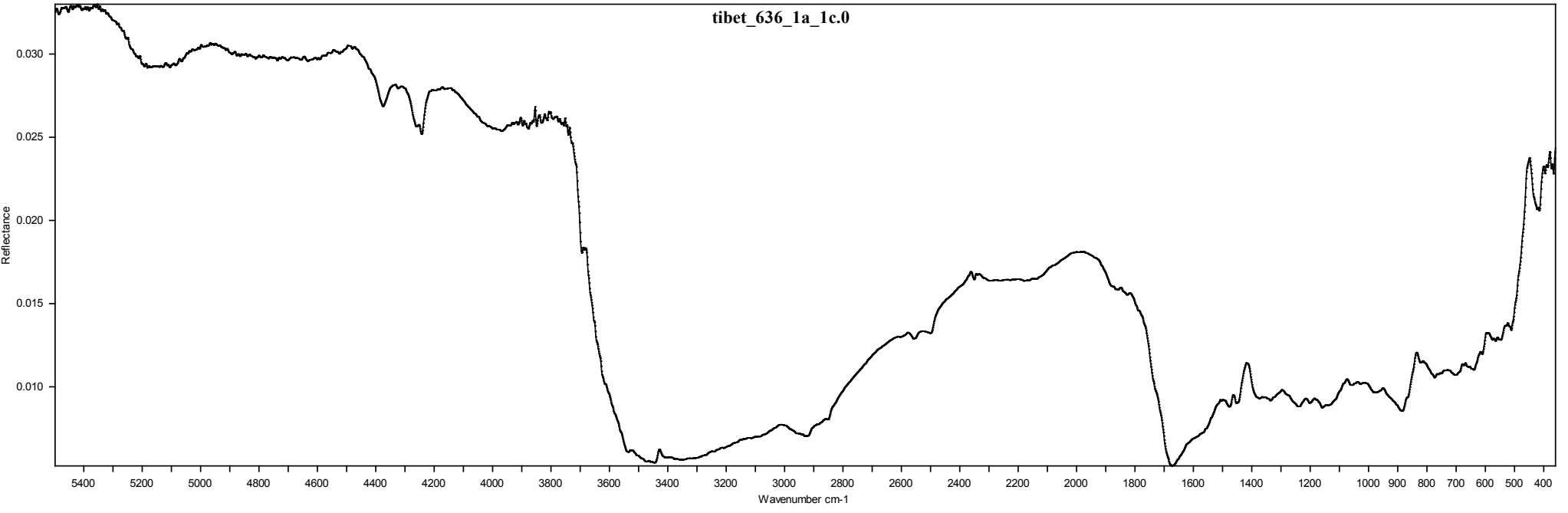
tibet\_636\_1a\_1a.0

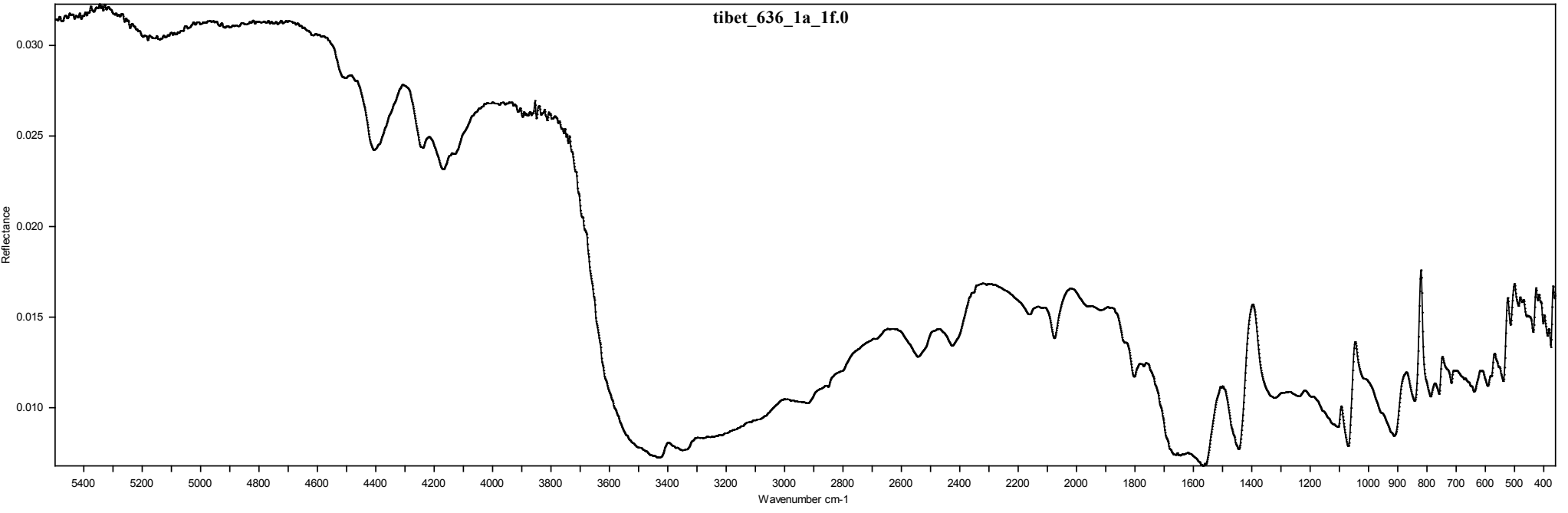
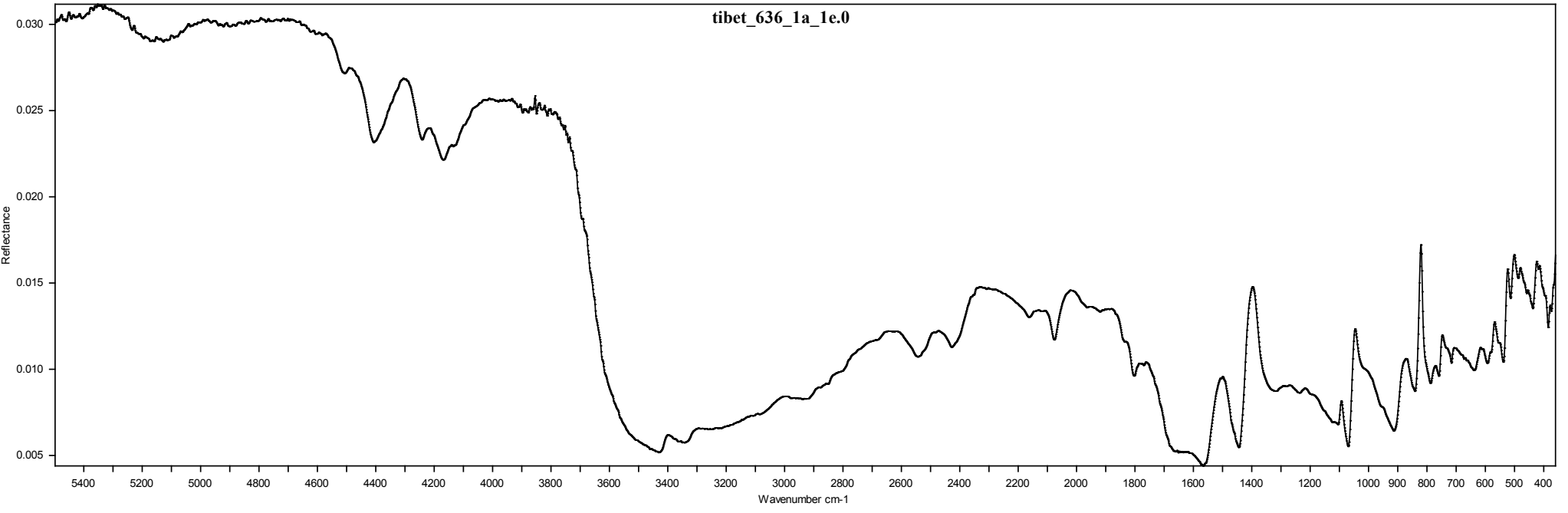


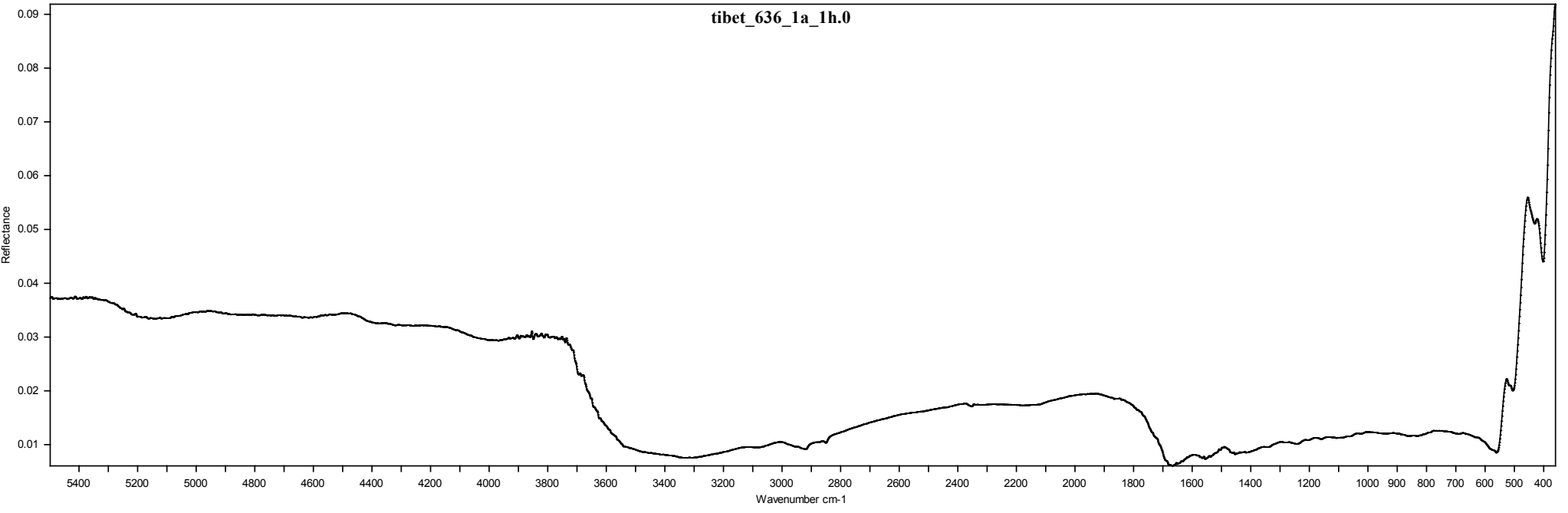
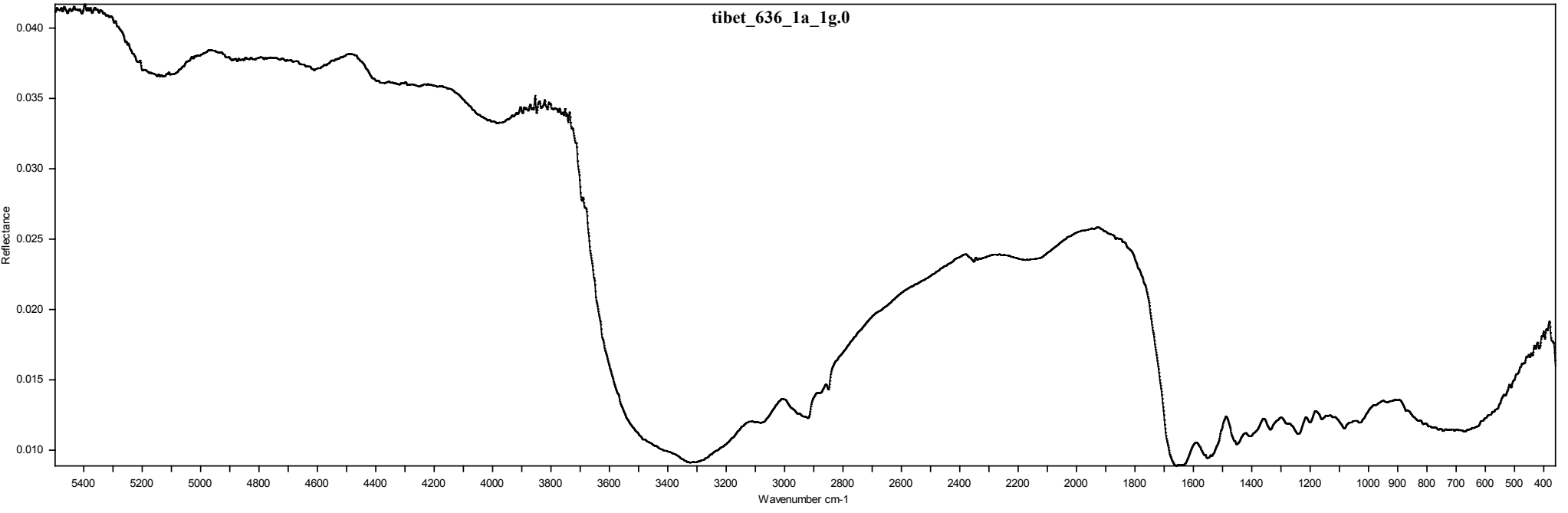
tibet\_636\_1a\_1b.0

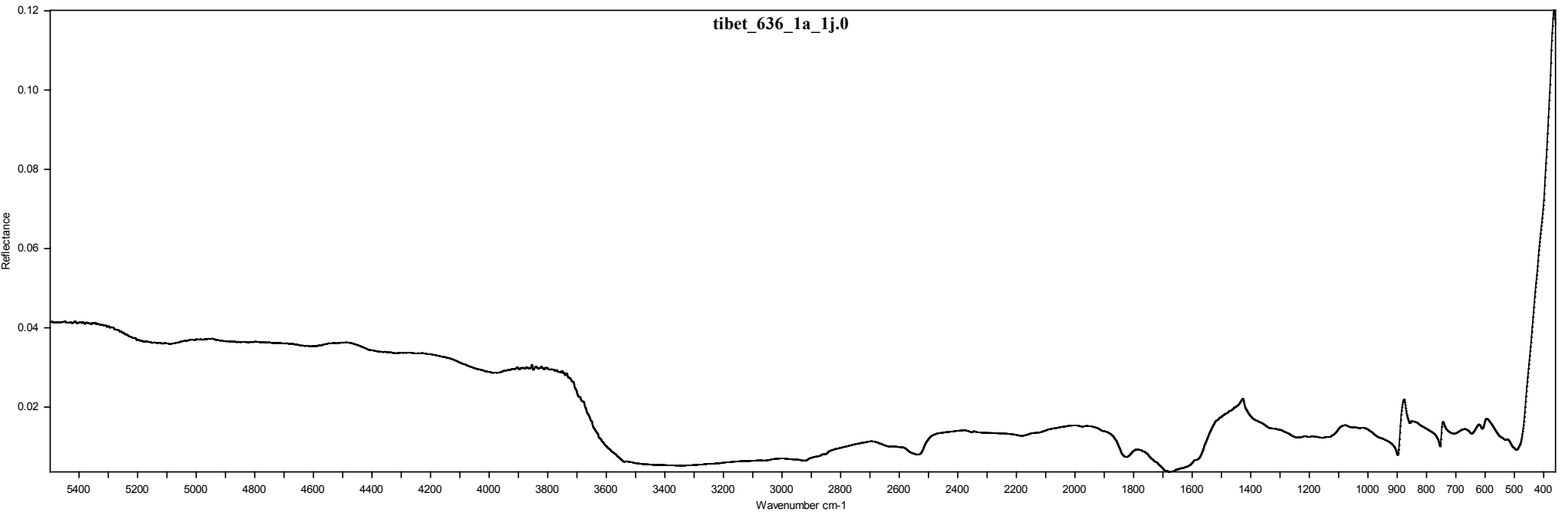
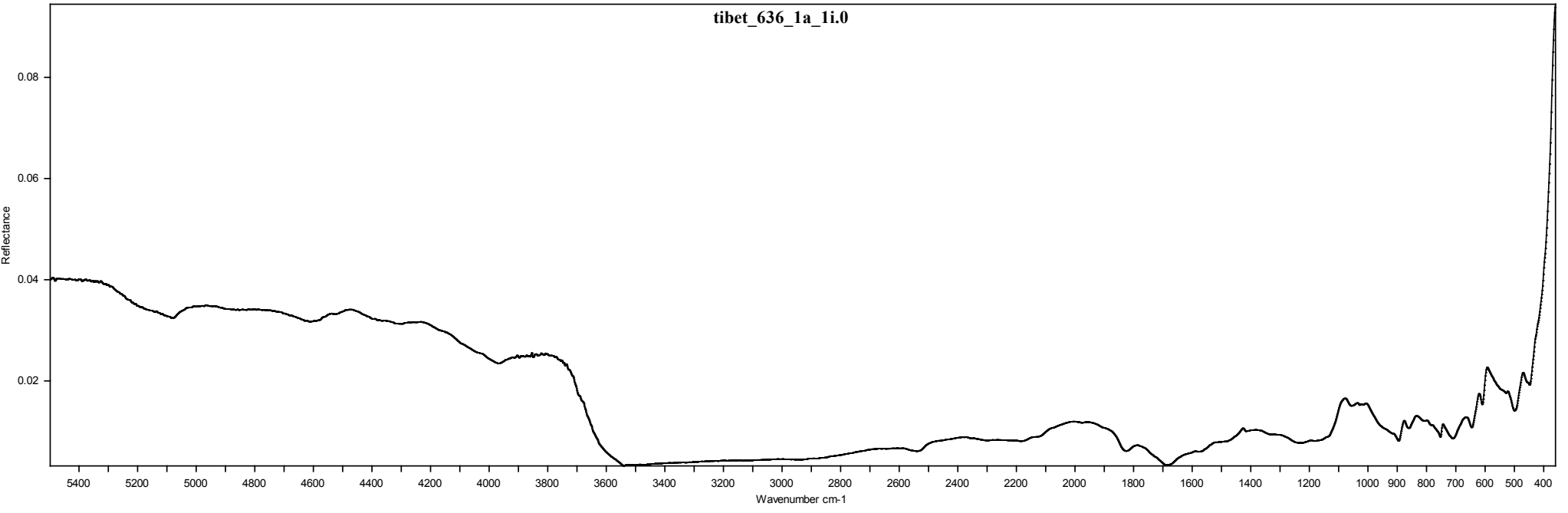




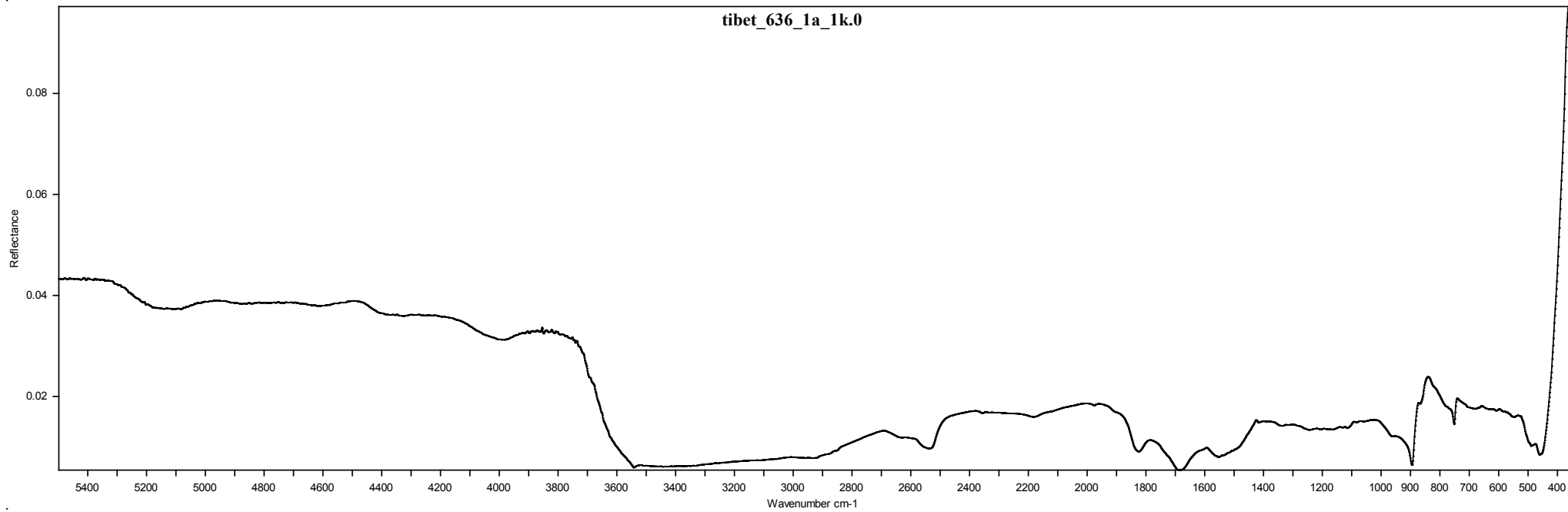








tibet\_636\_1a\_1k.0



tibet\_636\_1a\_1l.0

