

# Results of contactless and non-invasive analysis: overview

<b>Project:</b>	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
<b>Shelfmark:</b>	Munich, Bayerische Staatsbibliothek, Cod.tibet. 730
<b>Analytical methods:</b>	X-Ray Fluorescence Spectroscopy (XRF): p. 2-9 Fourier Transform Infrared Spectroscopy (FTIR): p. 10-19

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

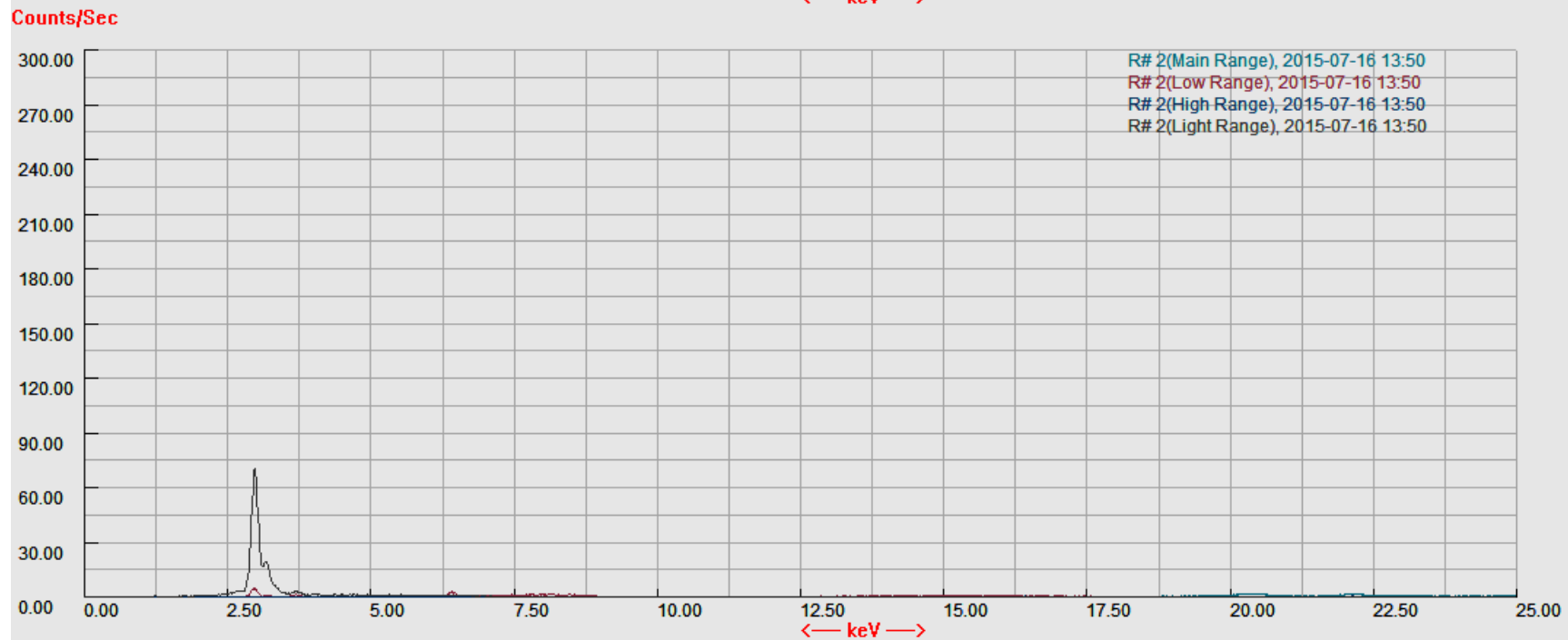
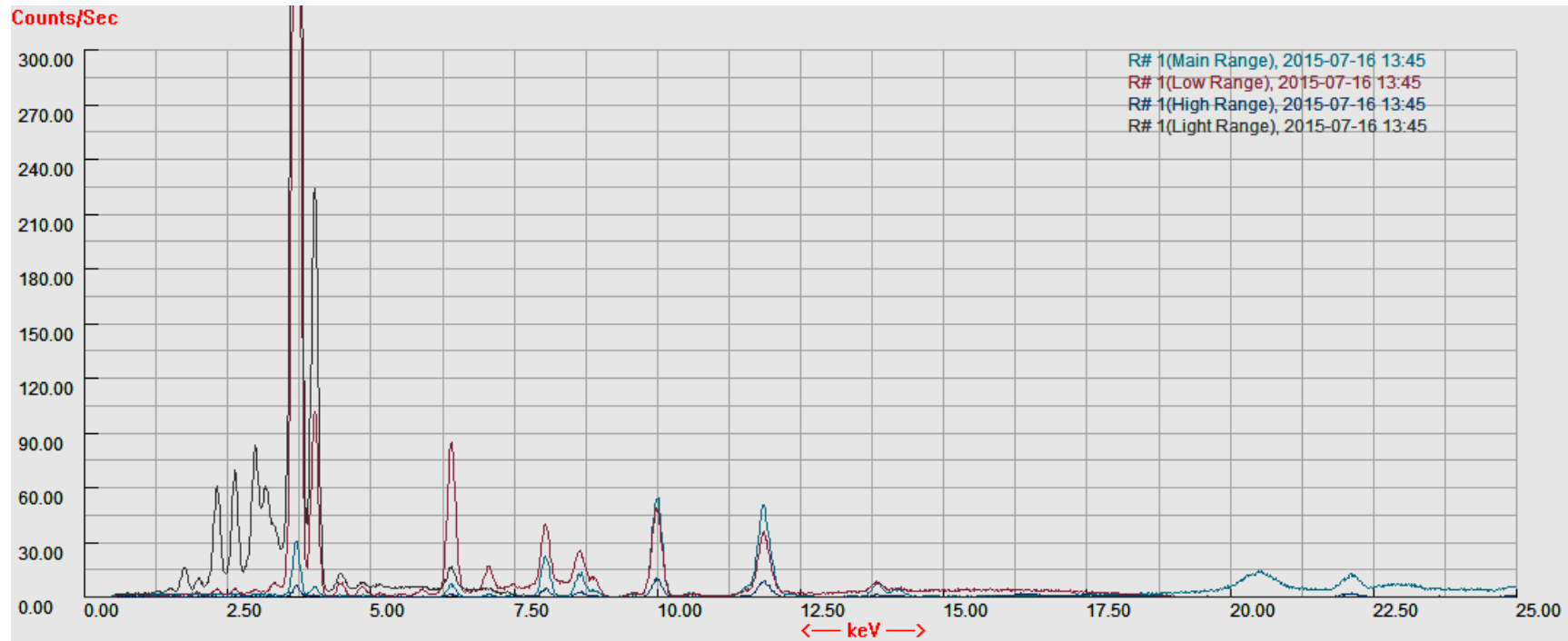
# XRF-Analysis: Mapping of measurement points and spectra

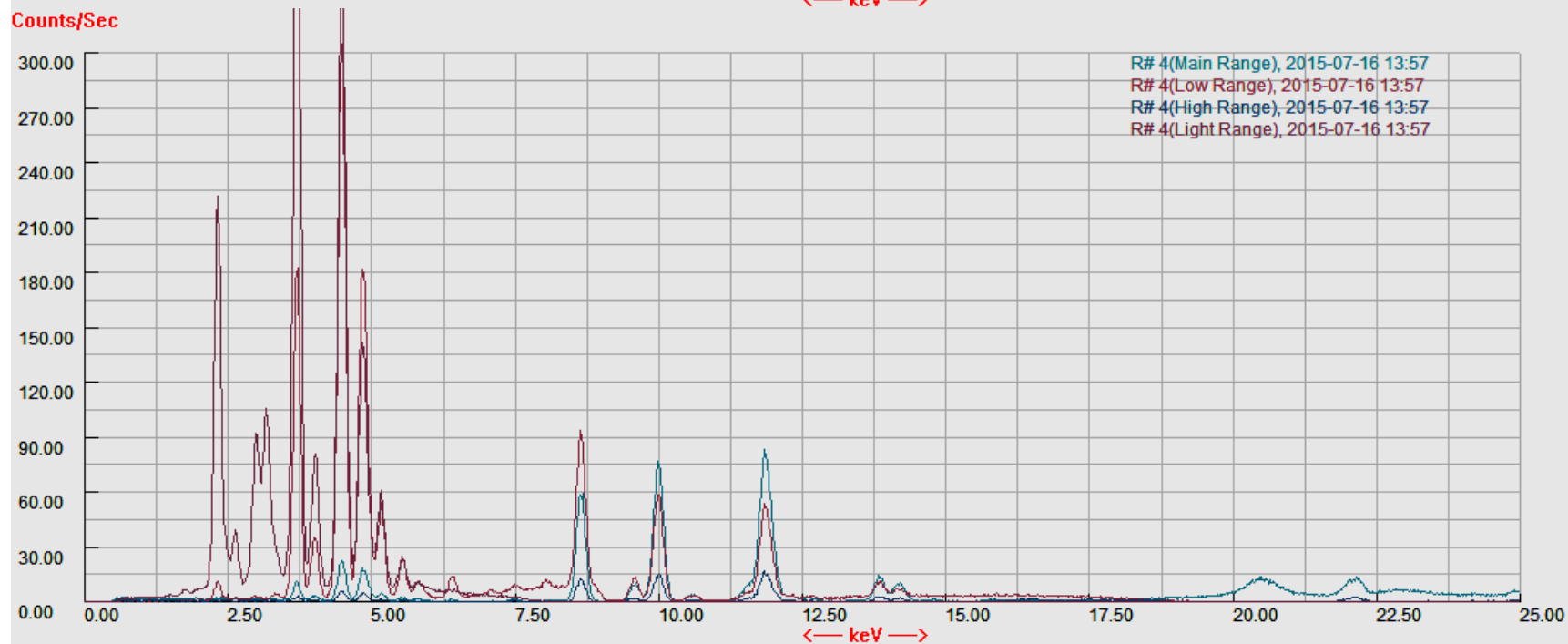
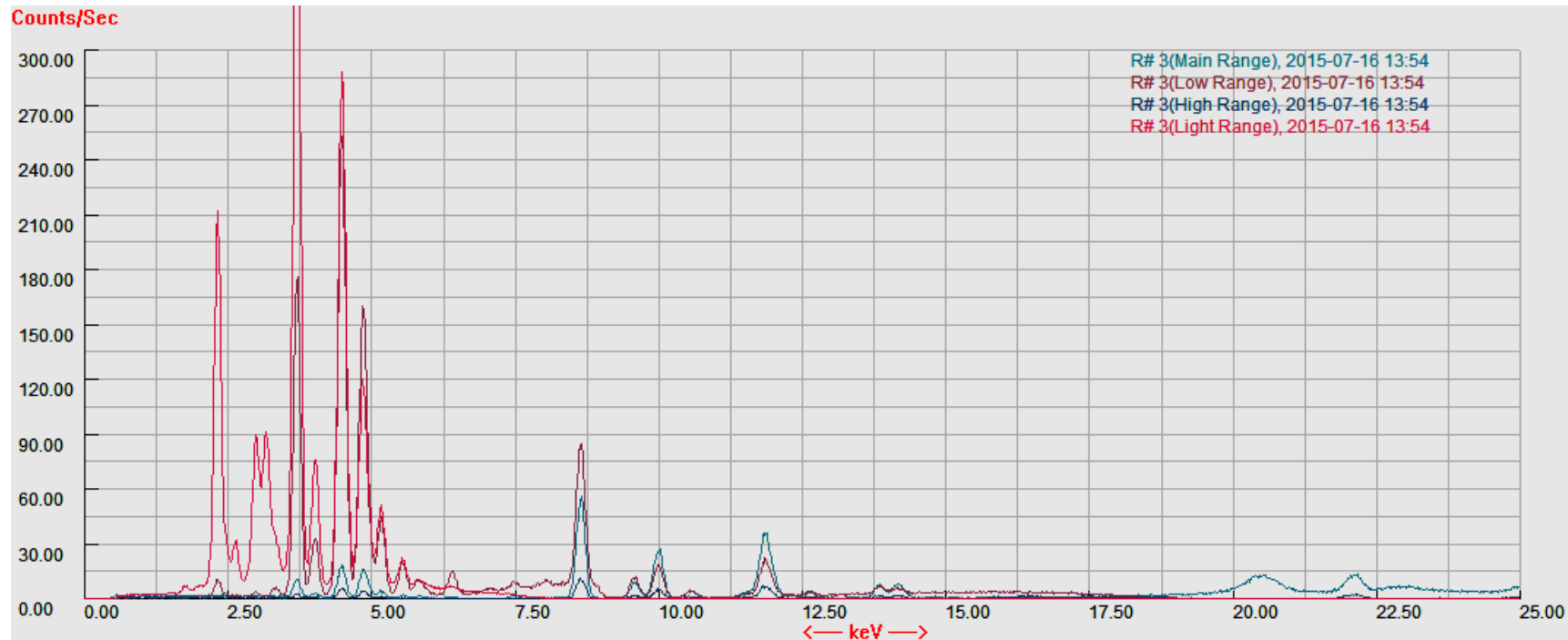
## Scanning parameters

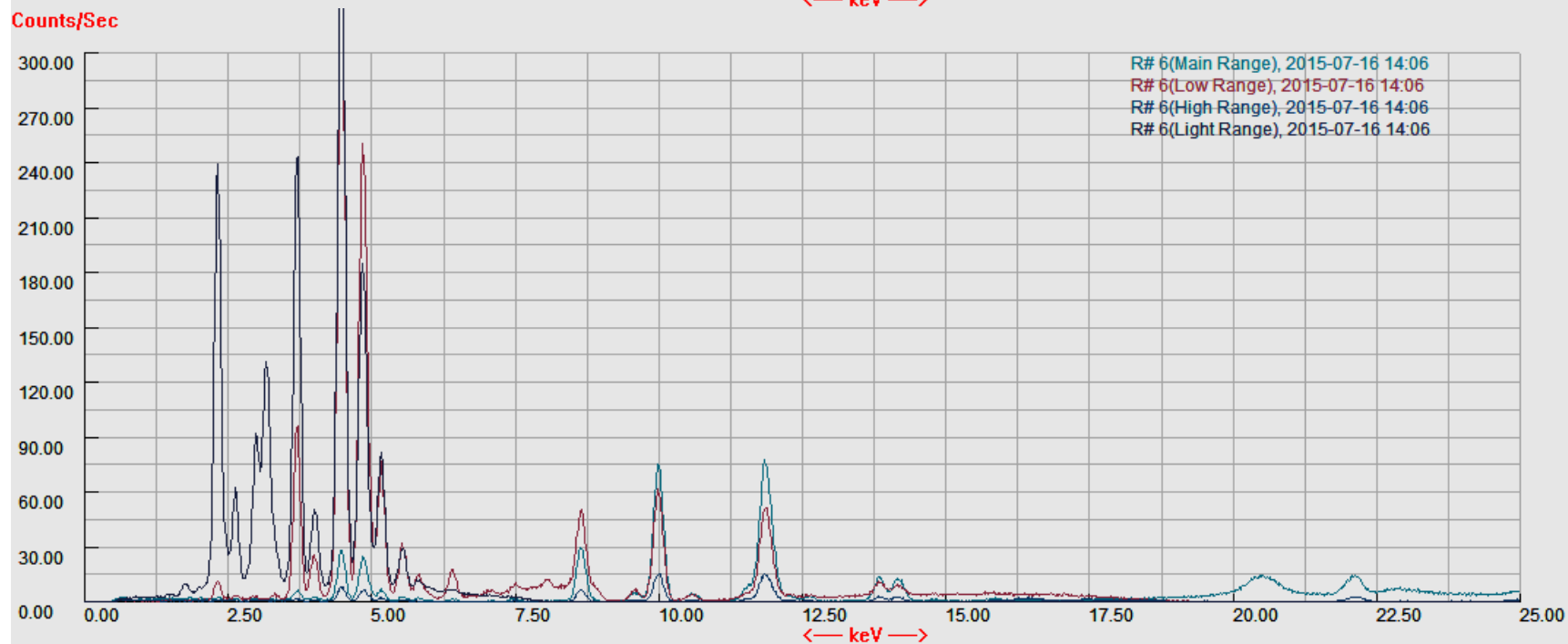
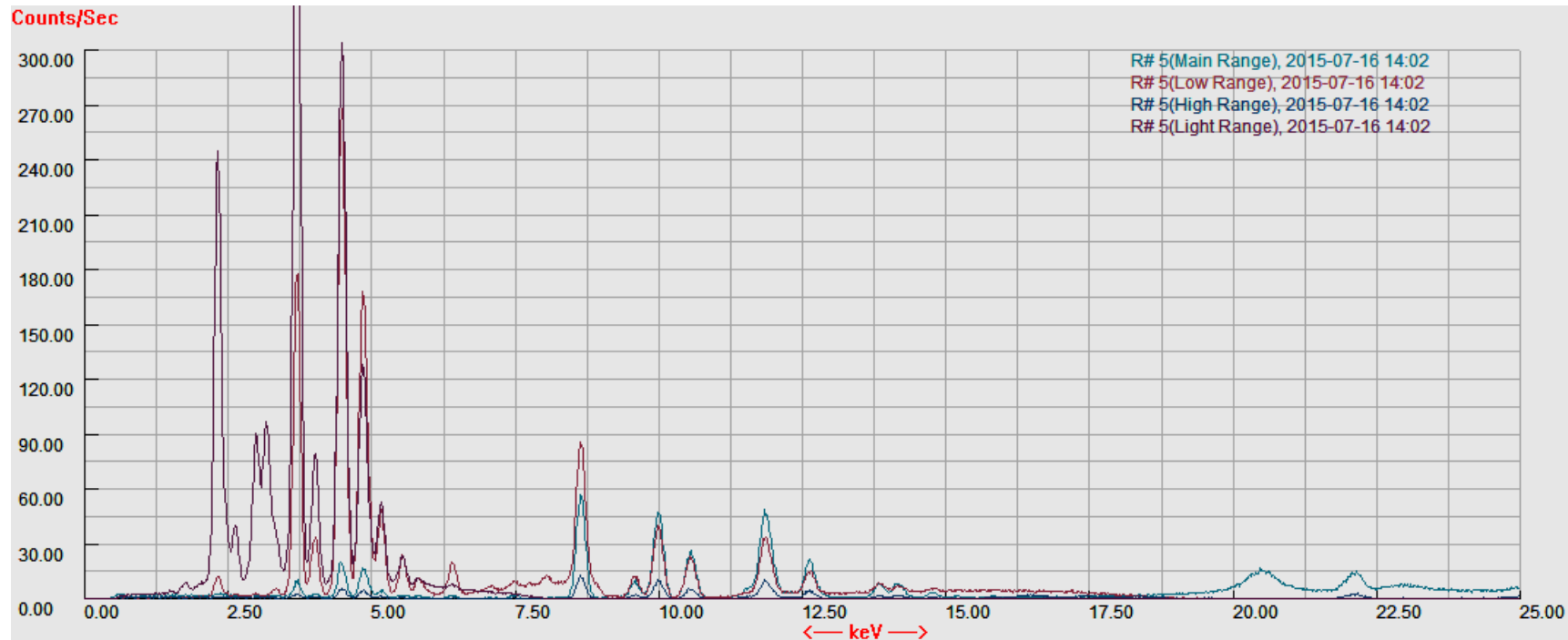
Instrument: NITON XL3t GOLD D+  
Scanning mode: Mining (Cu, Zn)  
Spectral resolution:  $4 \text{ cm}^{-1}$   
Scan duration: 150 s

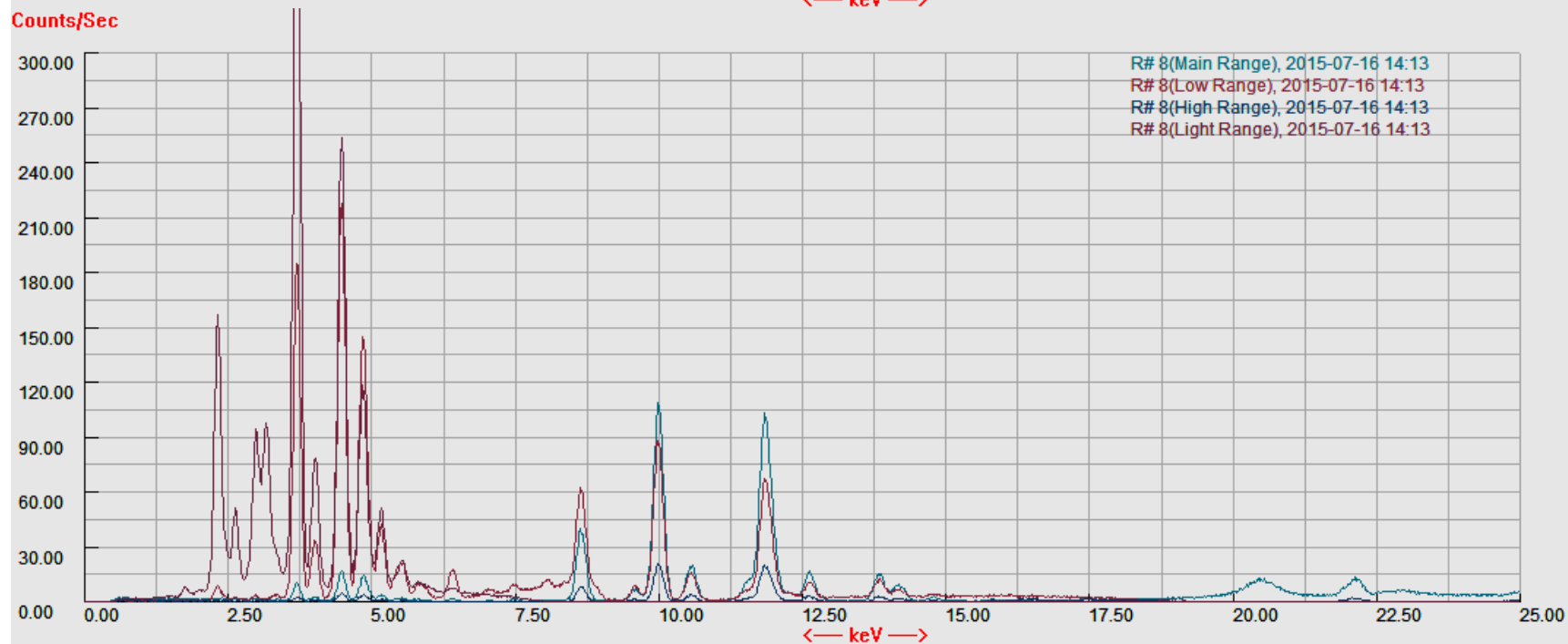
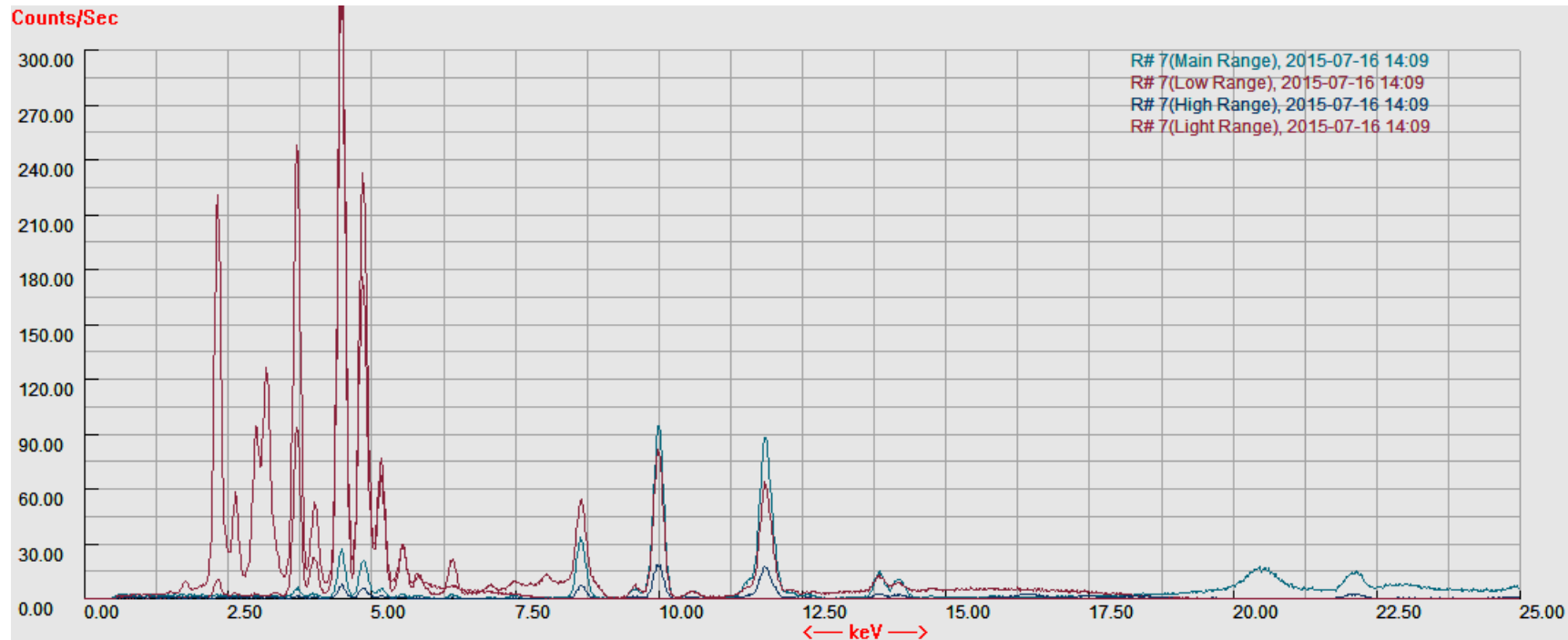
Spectra: #1 ... #14





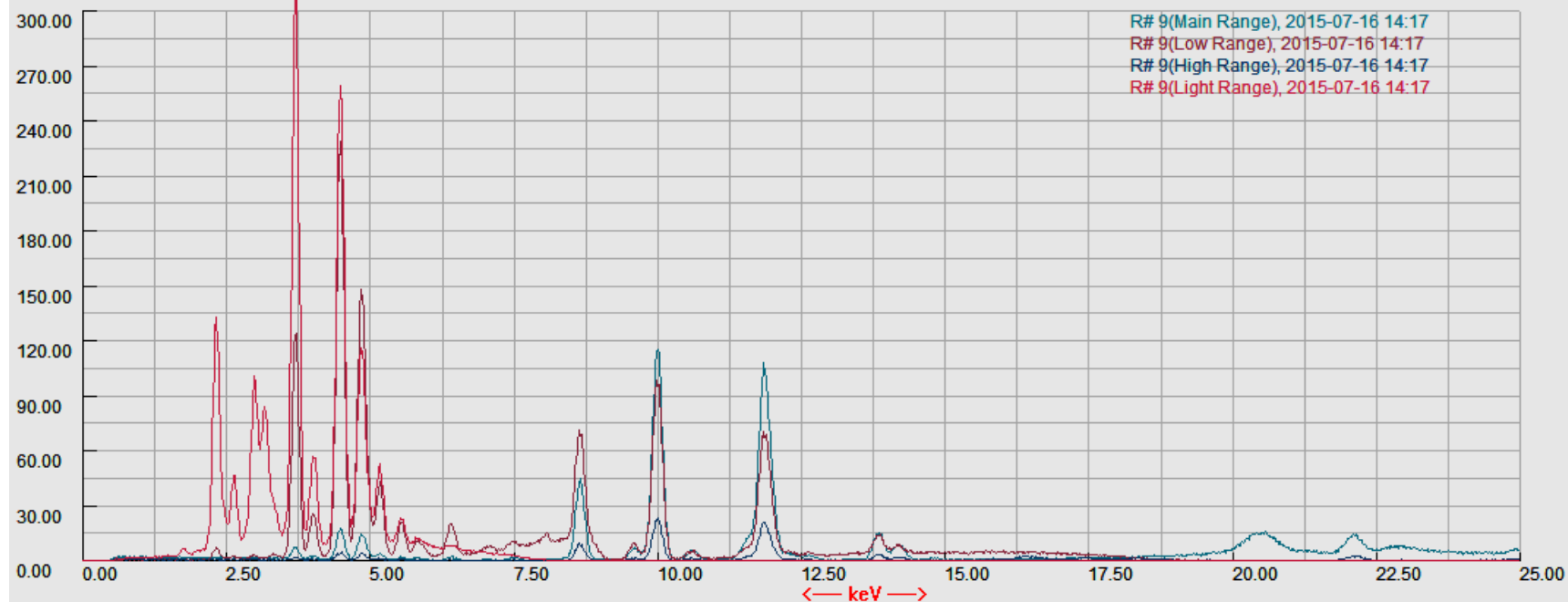




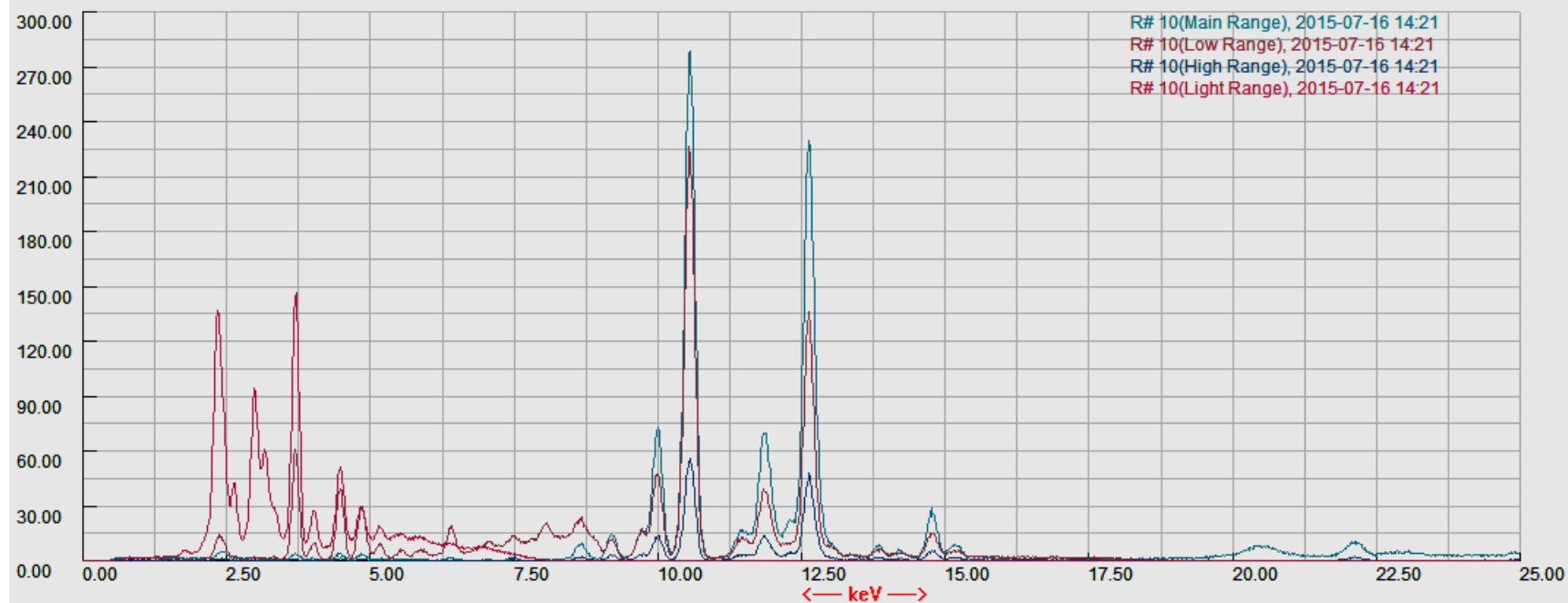




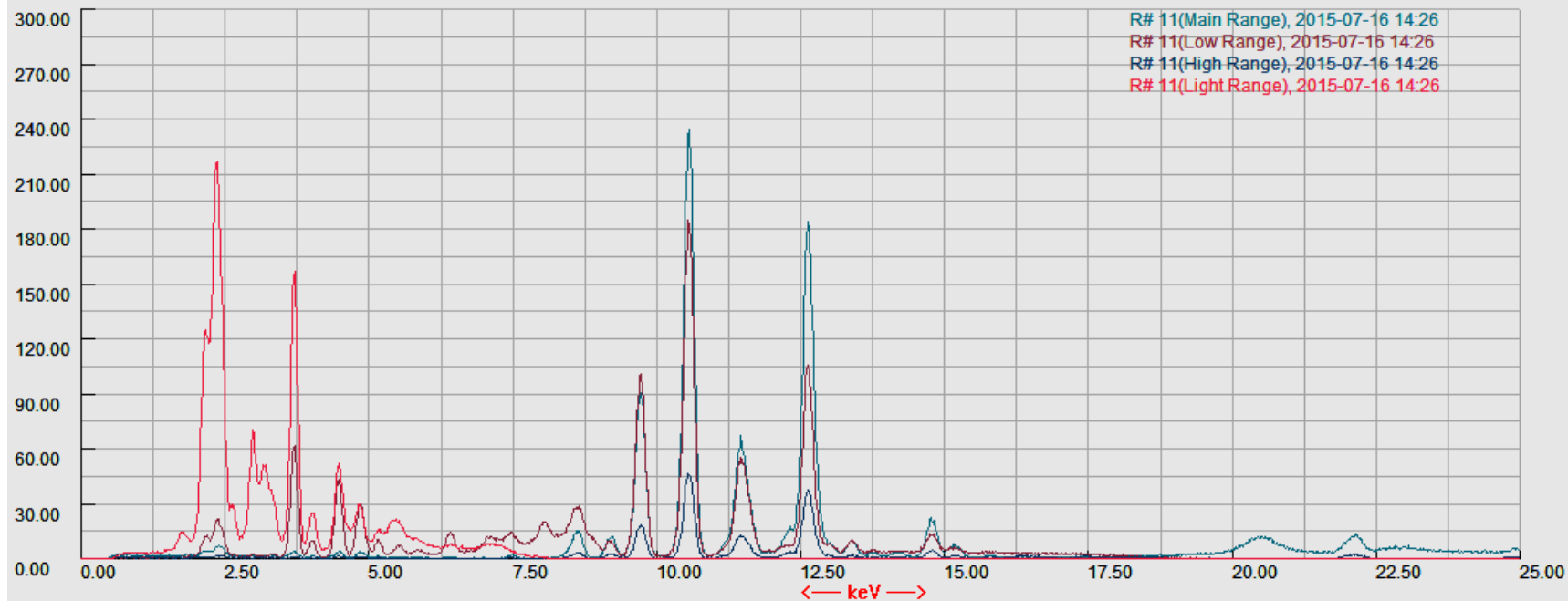
Counts/Sec



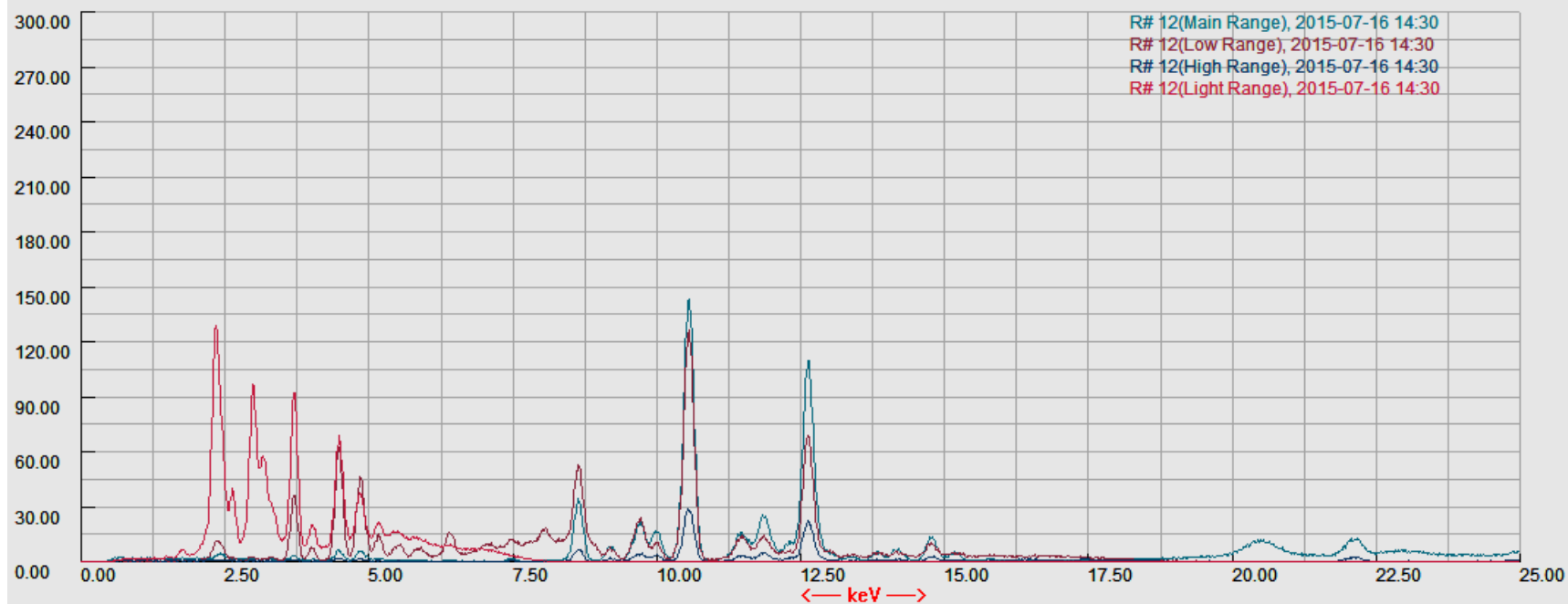
Counts/Sec



Counts/Sec

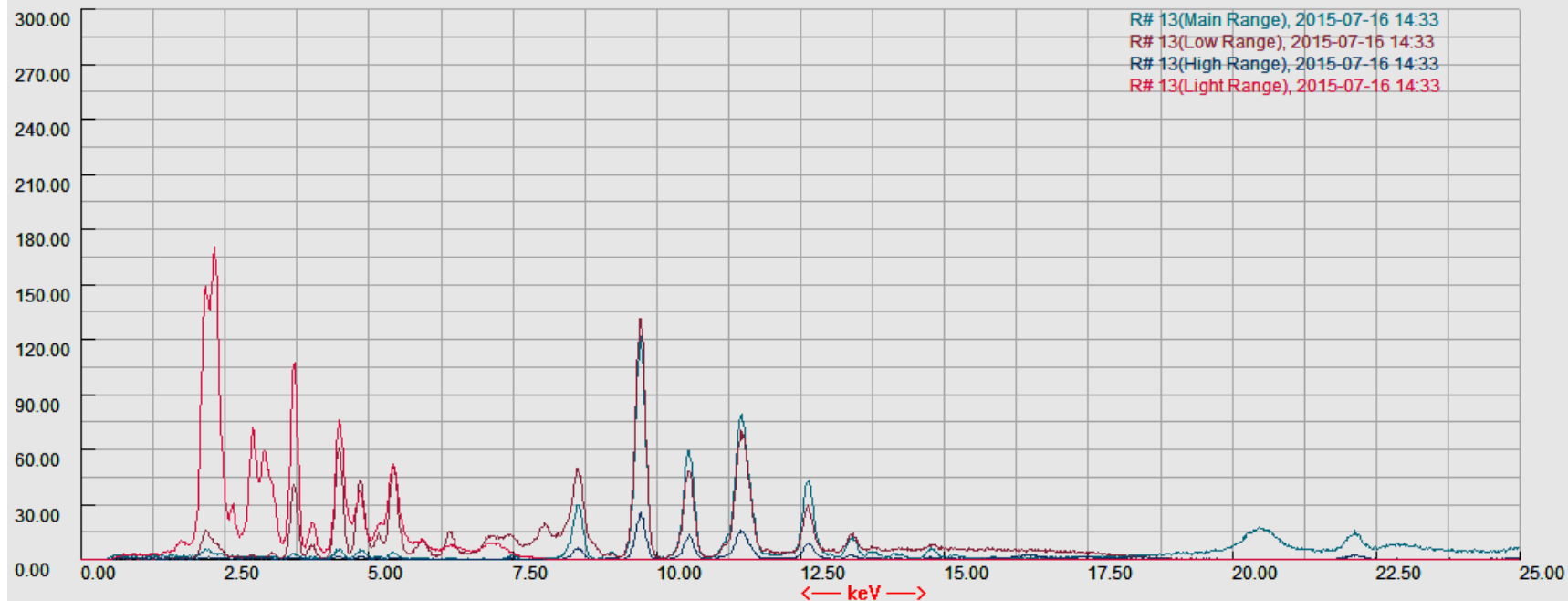


Counts/Sec

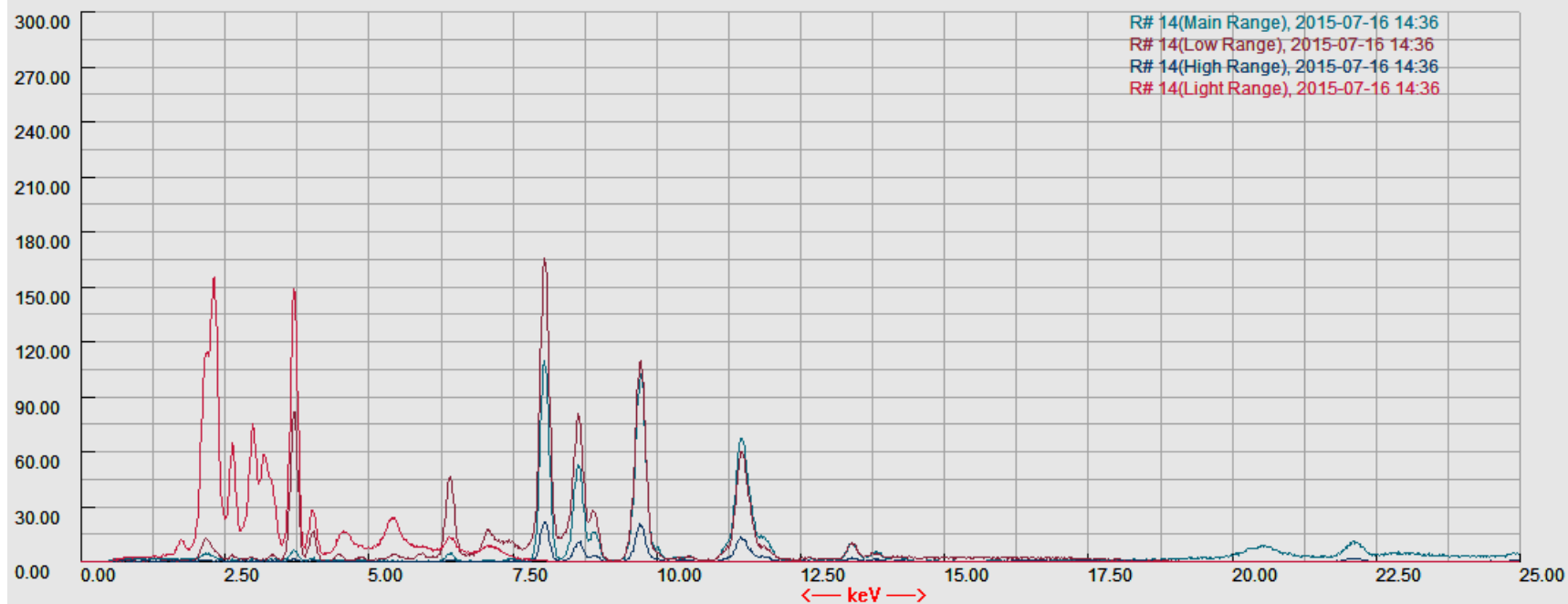




Counts/Sec



Counts/Sec



# FTIR-Analysis: Mapping of measurement points and spectra

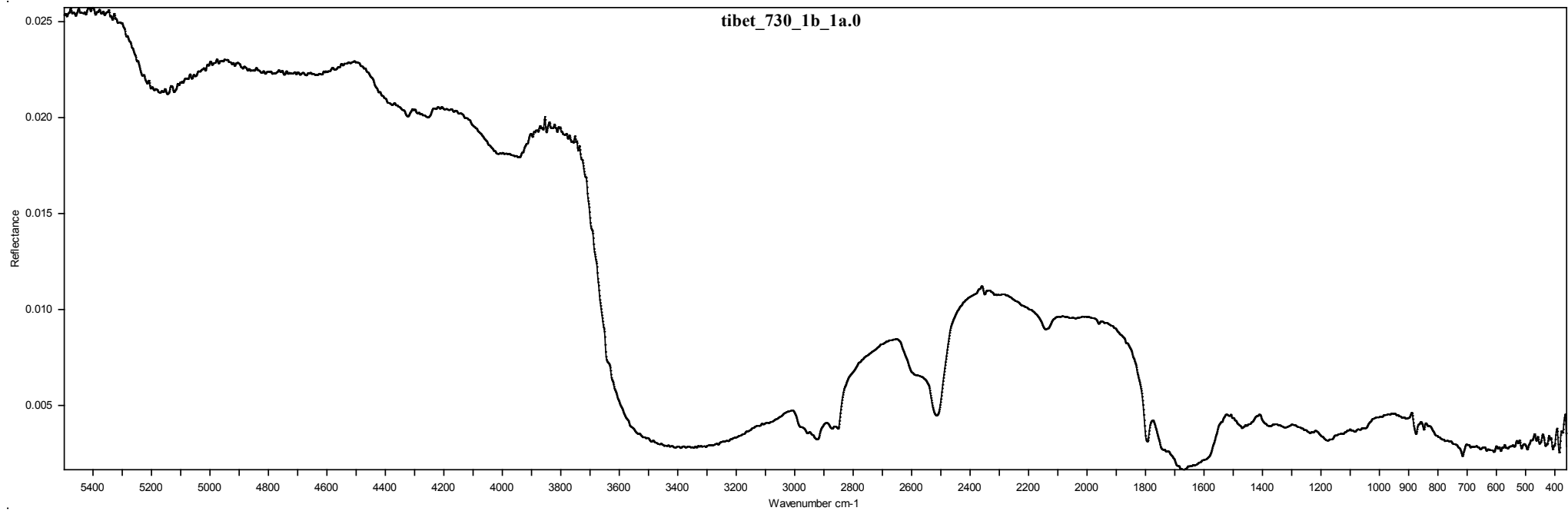
## Scanning parameters

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\_730\_1b\_1a ... \_1q  
(filename description: signature\_side a/b\_number of scan)



tibet\_730\_1b\_1a.0



tibet\_730\_1b\_1b.0

