

# 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, Clm 9476
<b>Analytical methods:</b>	X-Ray Fluorescence Spectroscopy (XRF): p. 2-14 Raman Spectroscopy (Raman): p. 15-46

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

# XRF-Analysis: Mapping of measurement points and spectra Front Cover

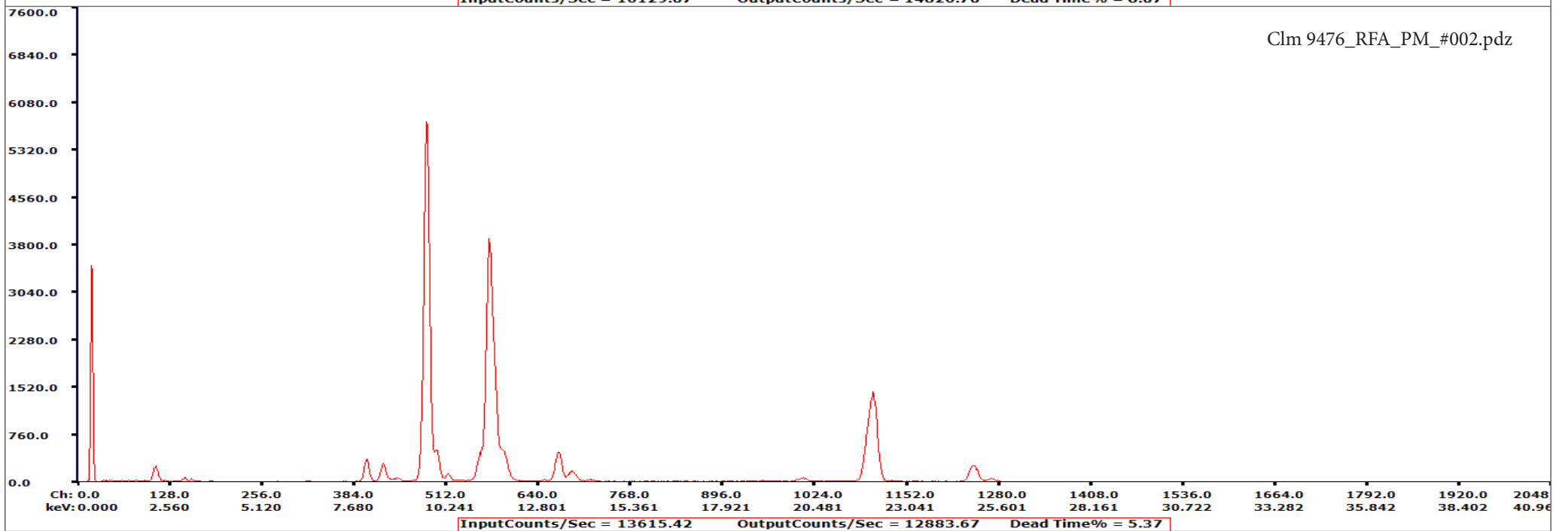
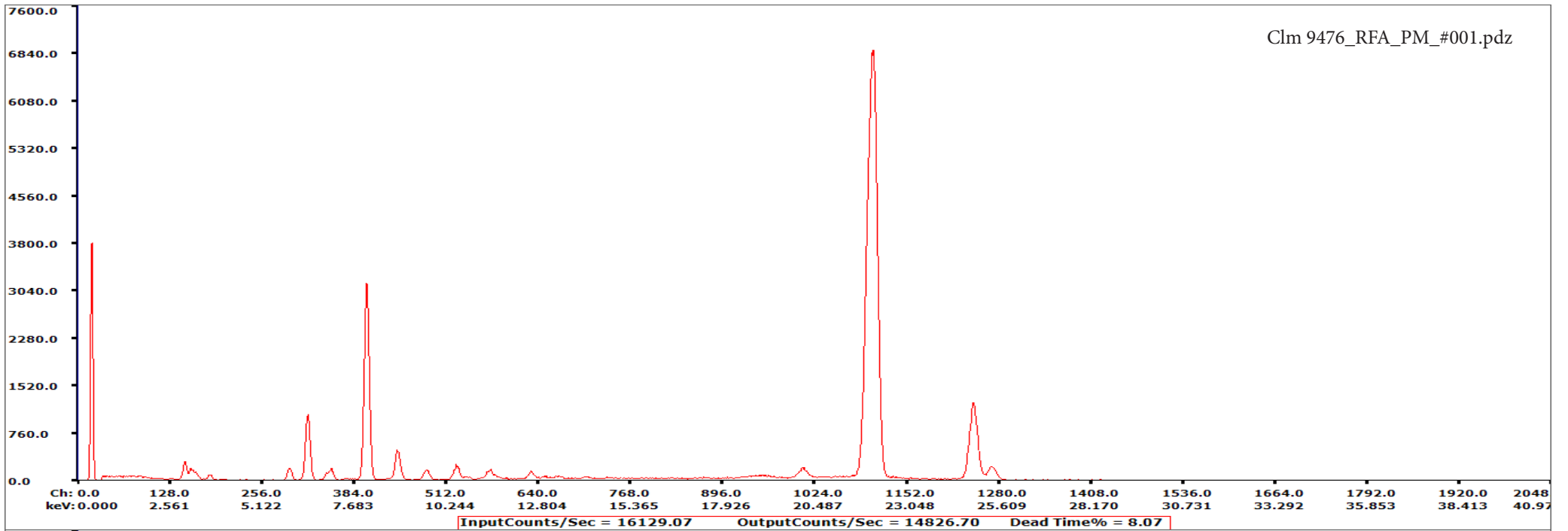
## Scanning parameters

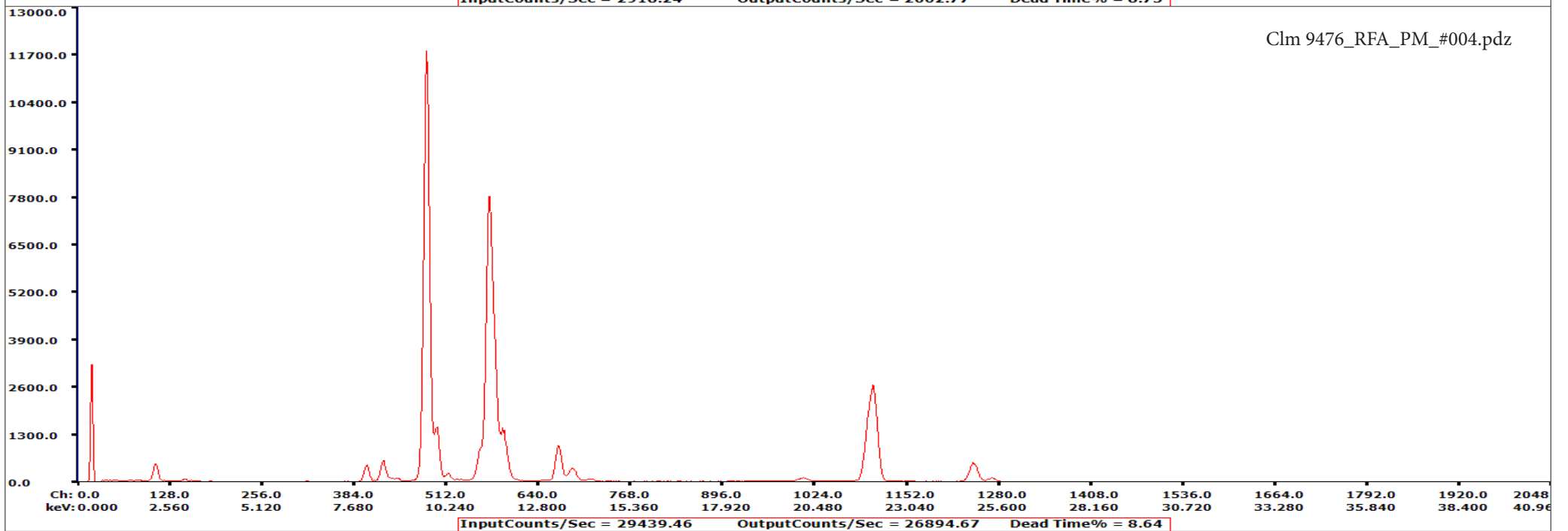
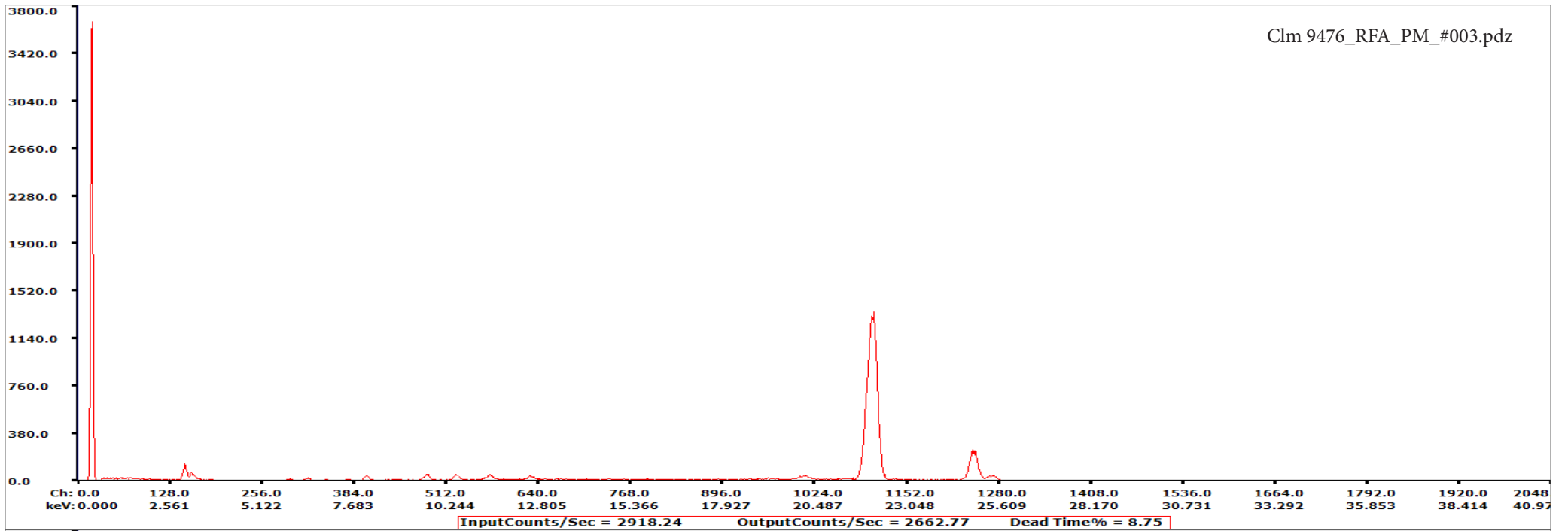
Instrument: Bruker Tracer 5i  
Scanning mode: Precious Metals (PM)  
Spot size: 8 mm  
Scan duration: 15 s

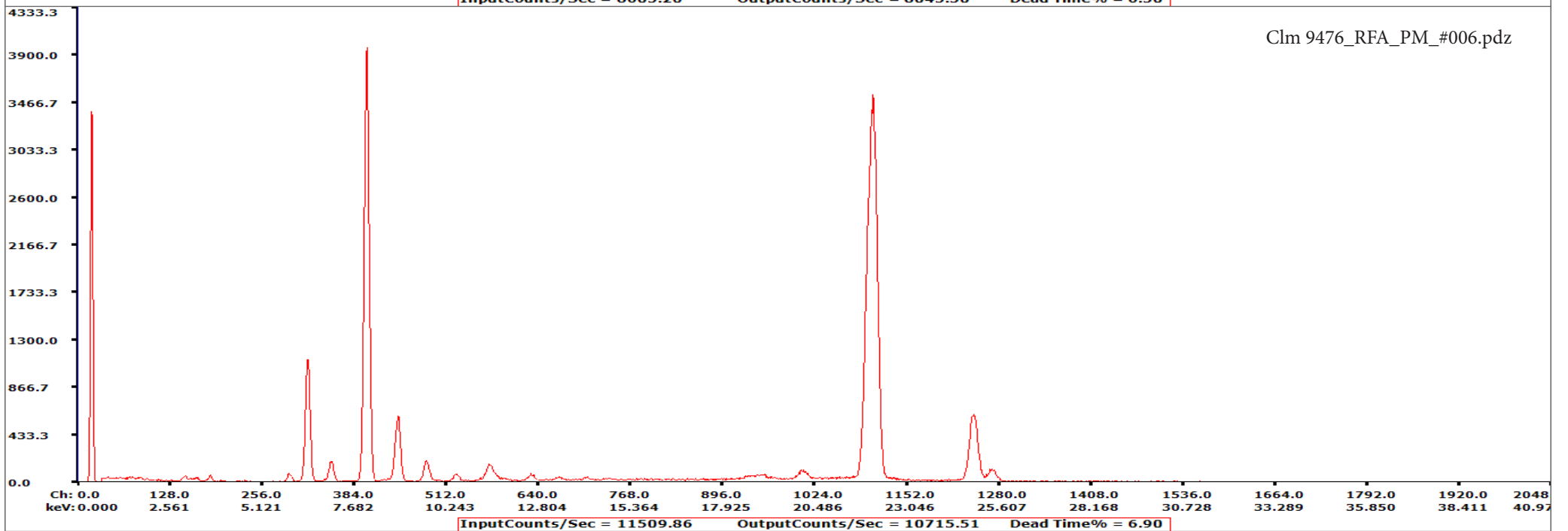
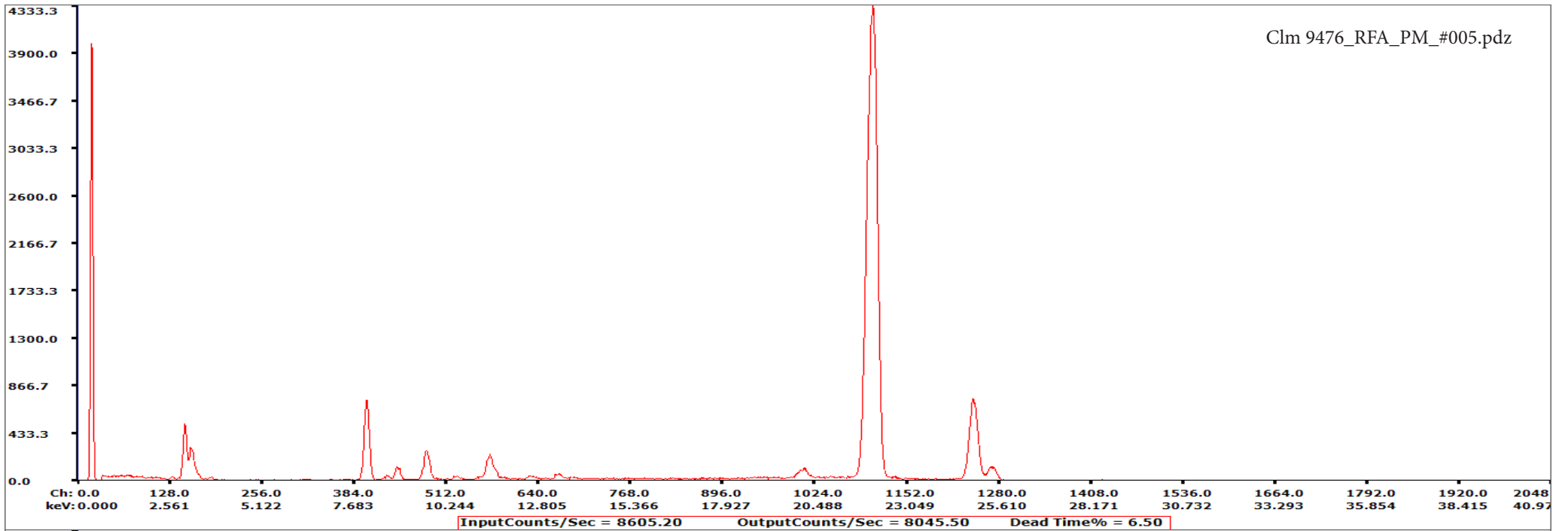
Scanning mode: Restricted Materials (RM)  
Spot size: 8 mm  
Scan duration: 30 s

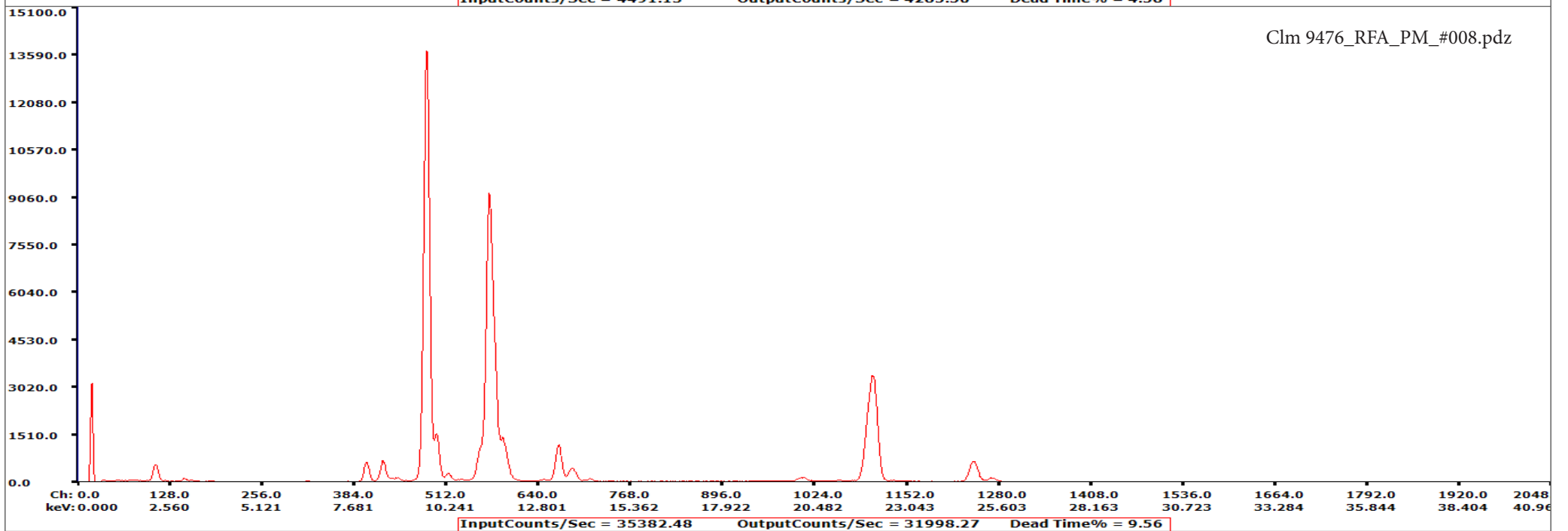
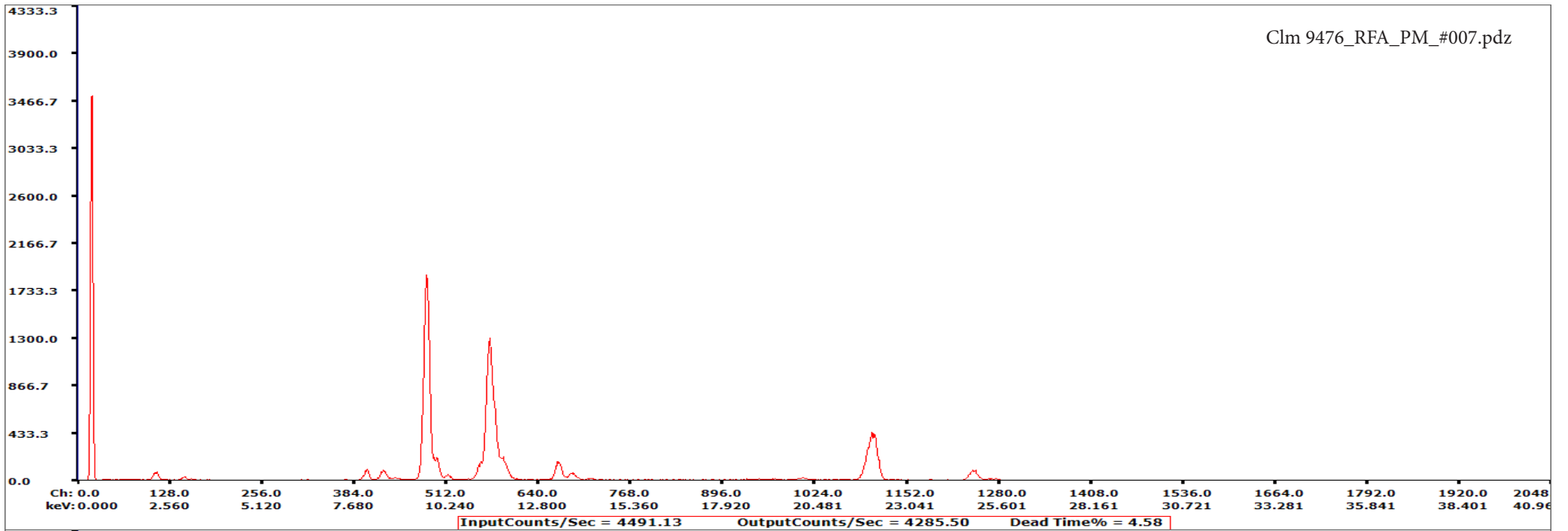
Spectra:  
(filename description: signature\_RFA\_scanning mode\_number of scan.pdz)

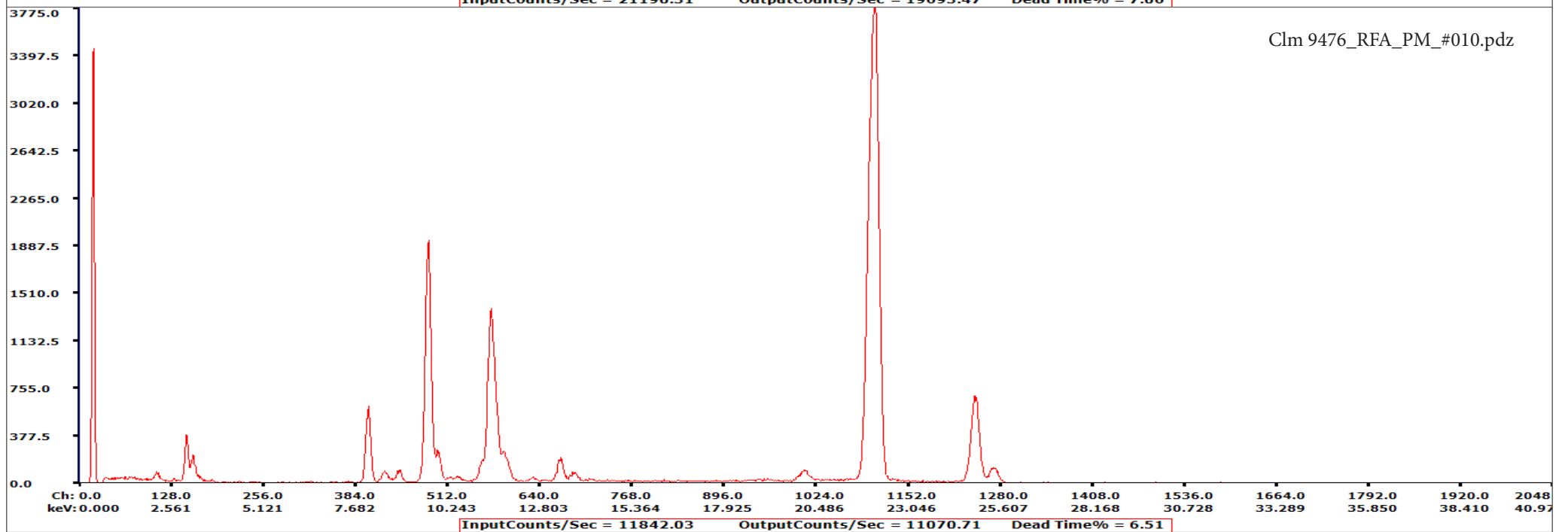
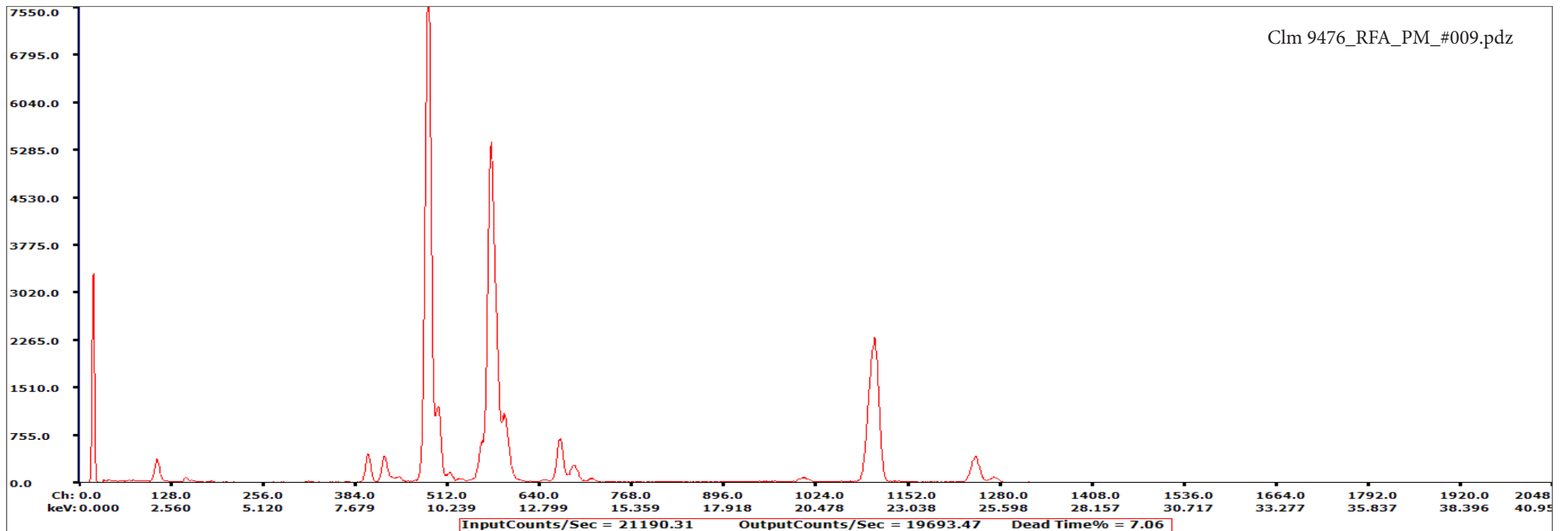


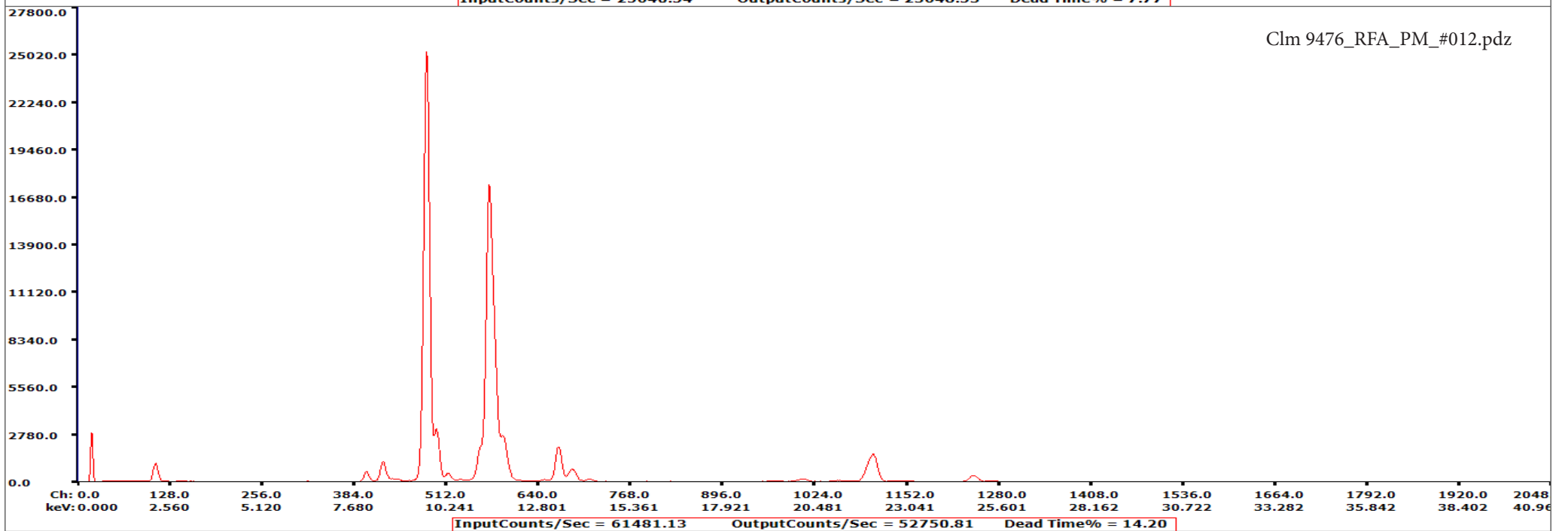
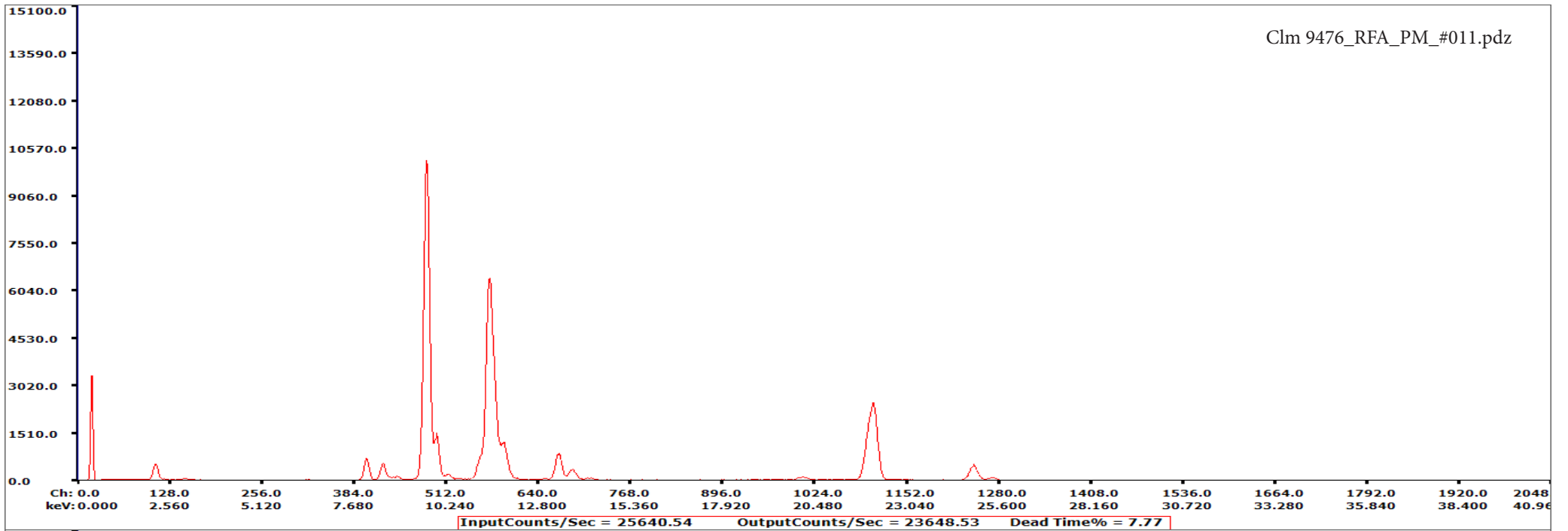




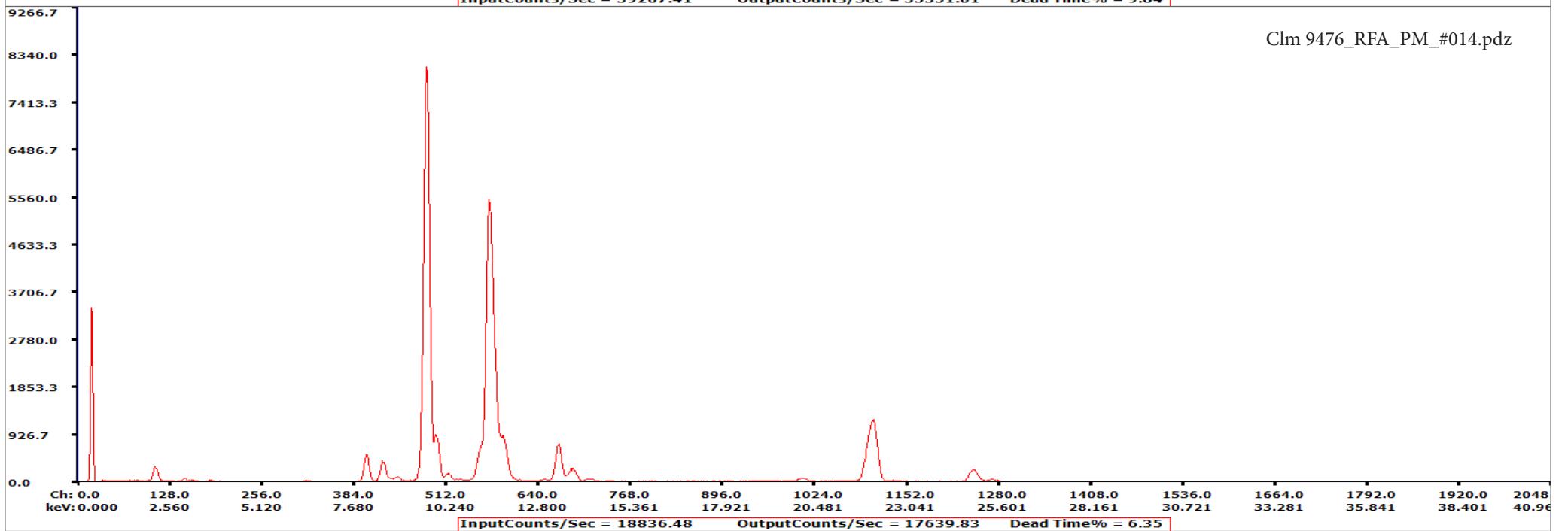
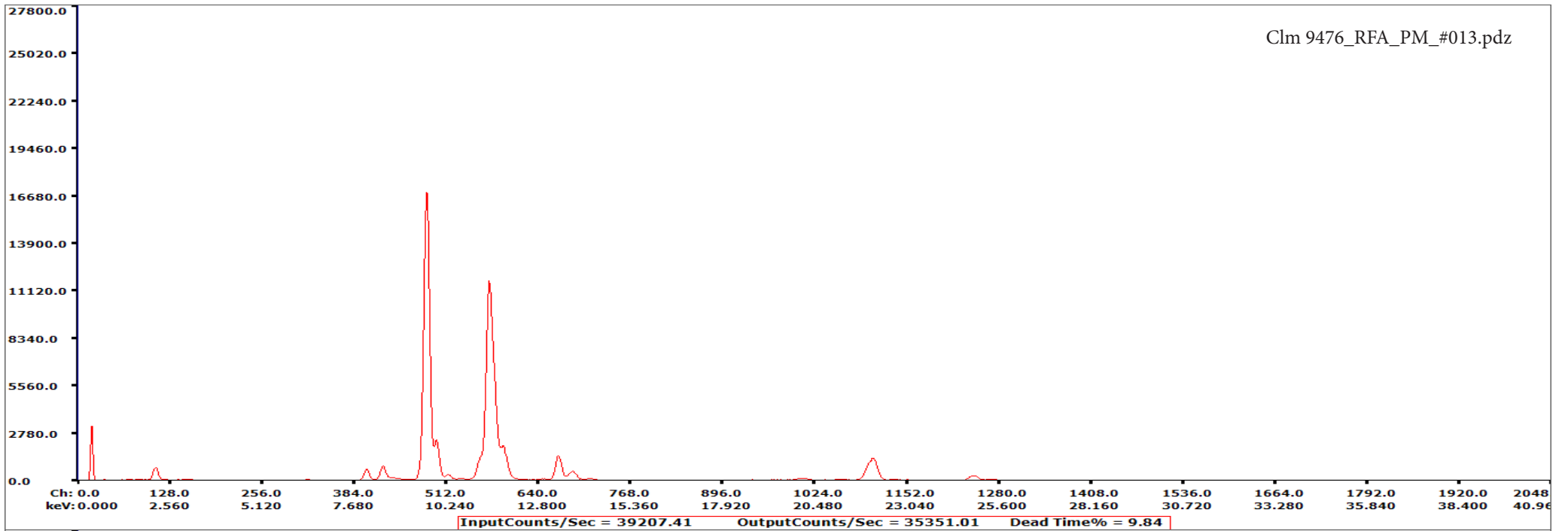


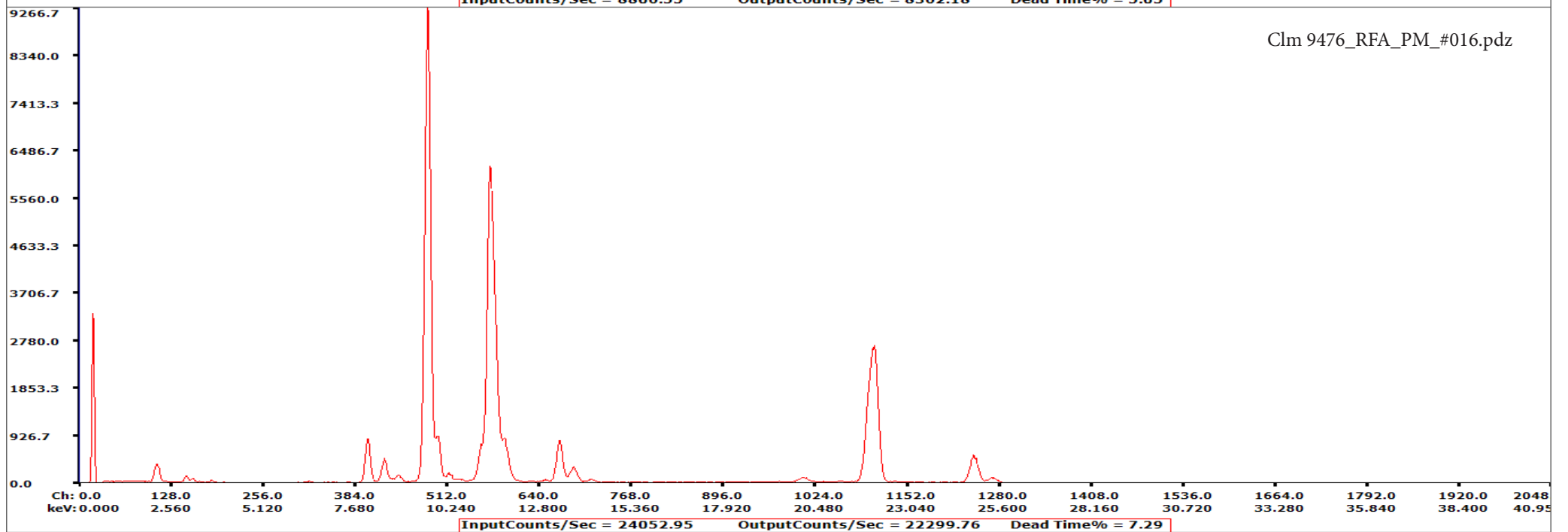
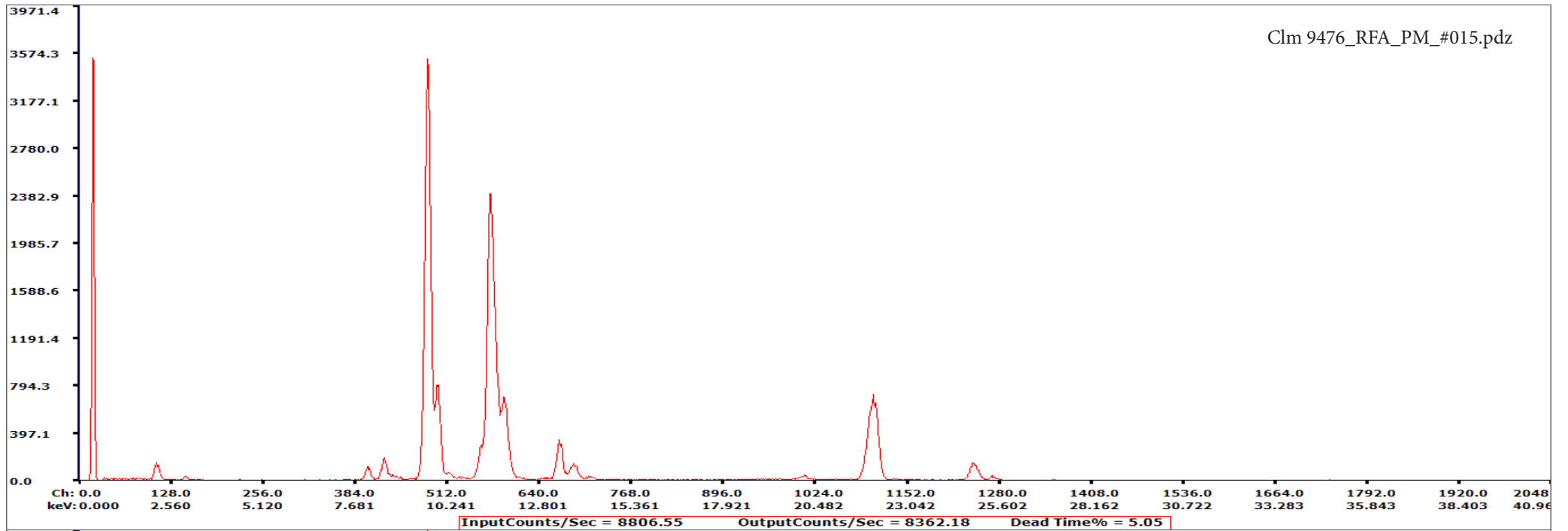


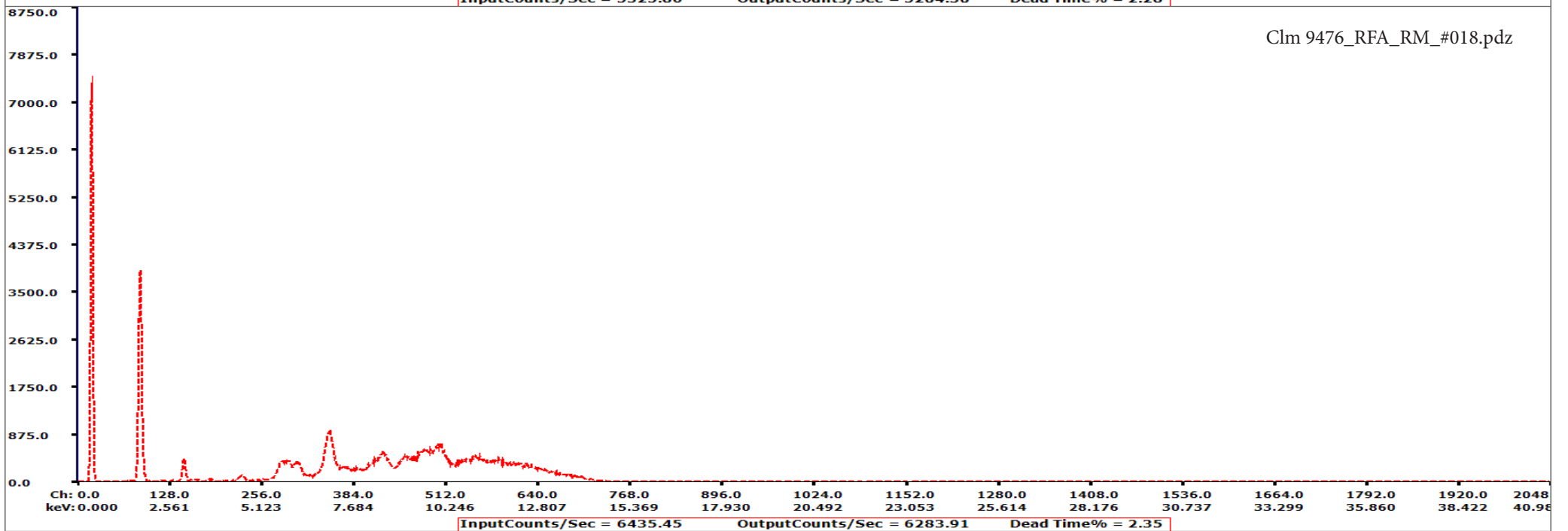
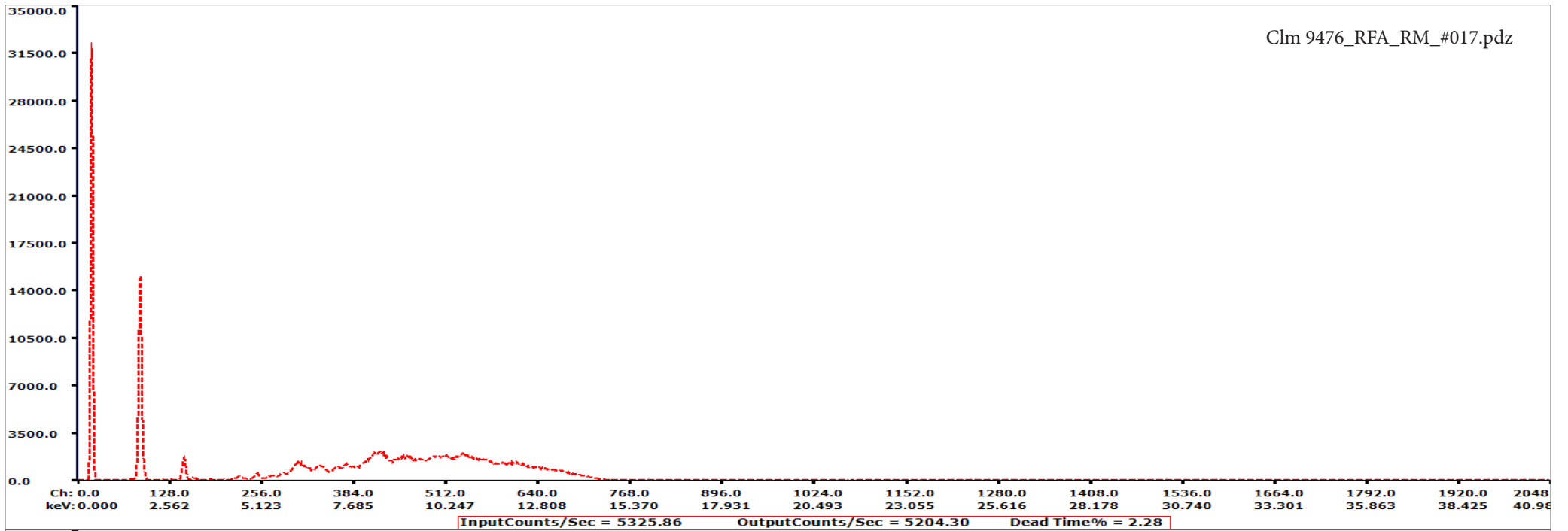












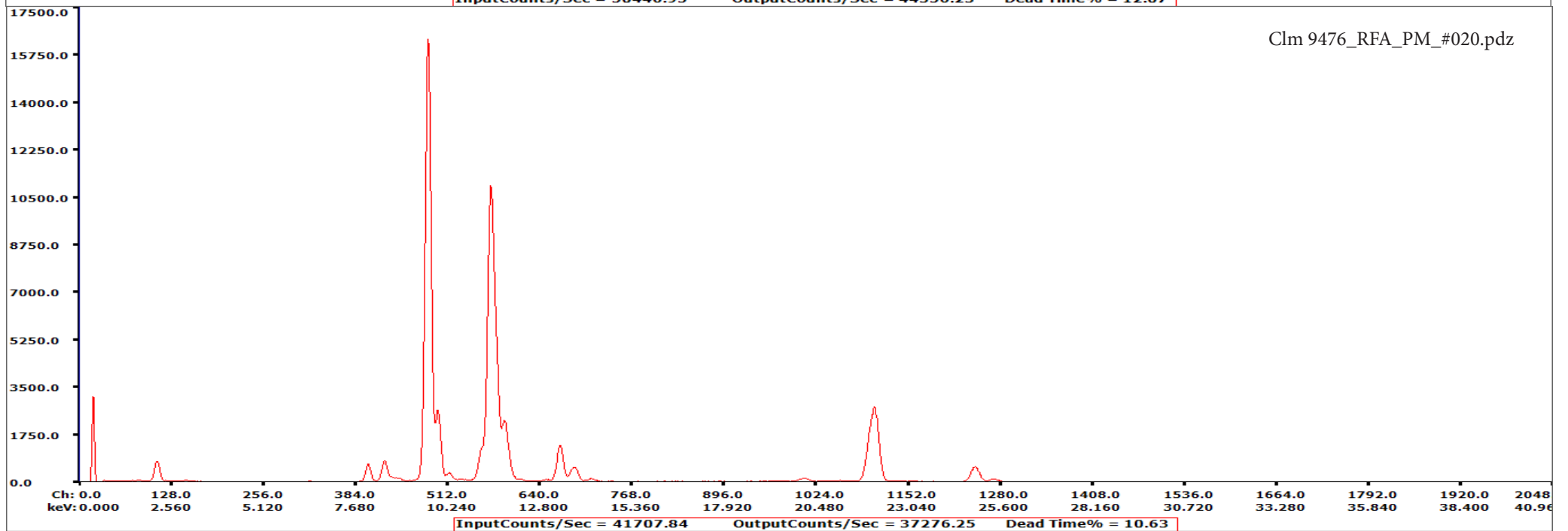
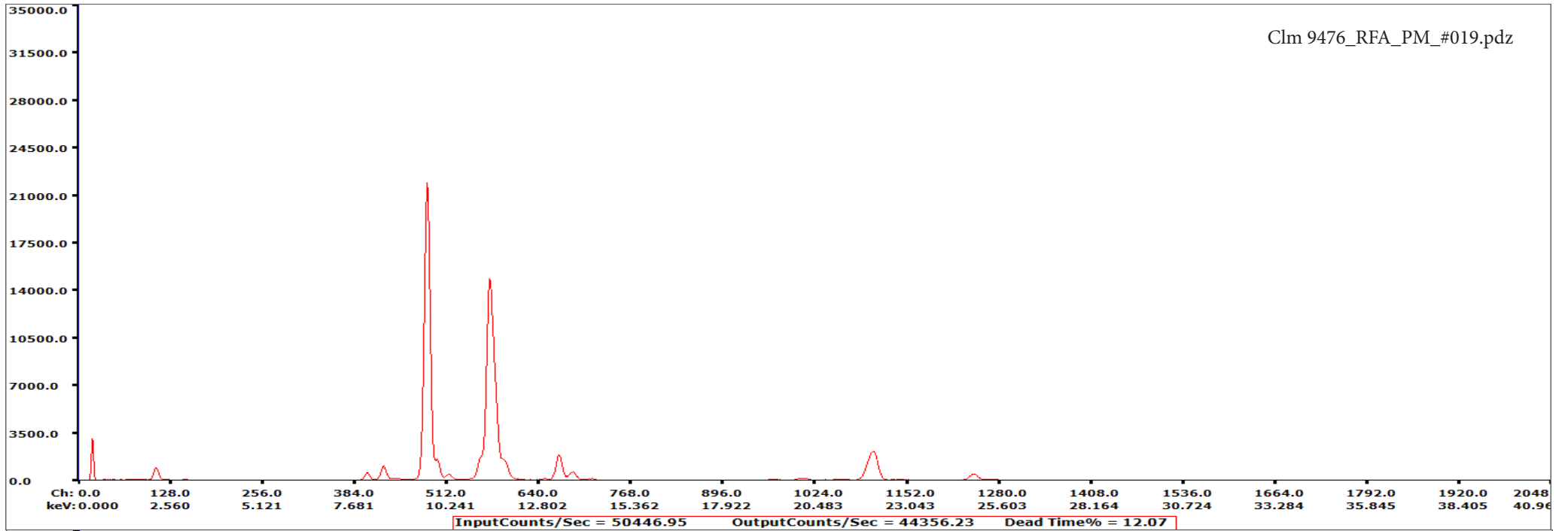
# XRF-Analysis: Mapping of measurement points and spectra Fore edge

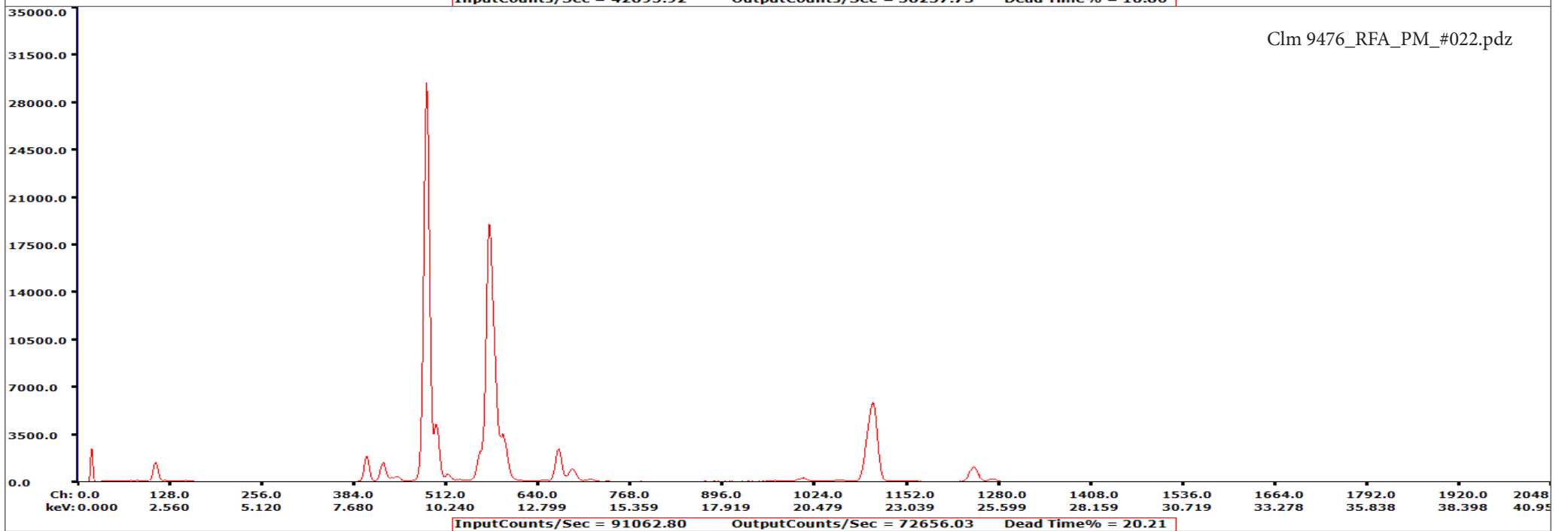
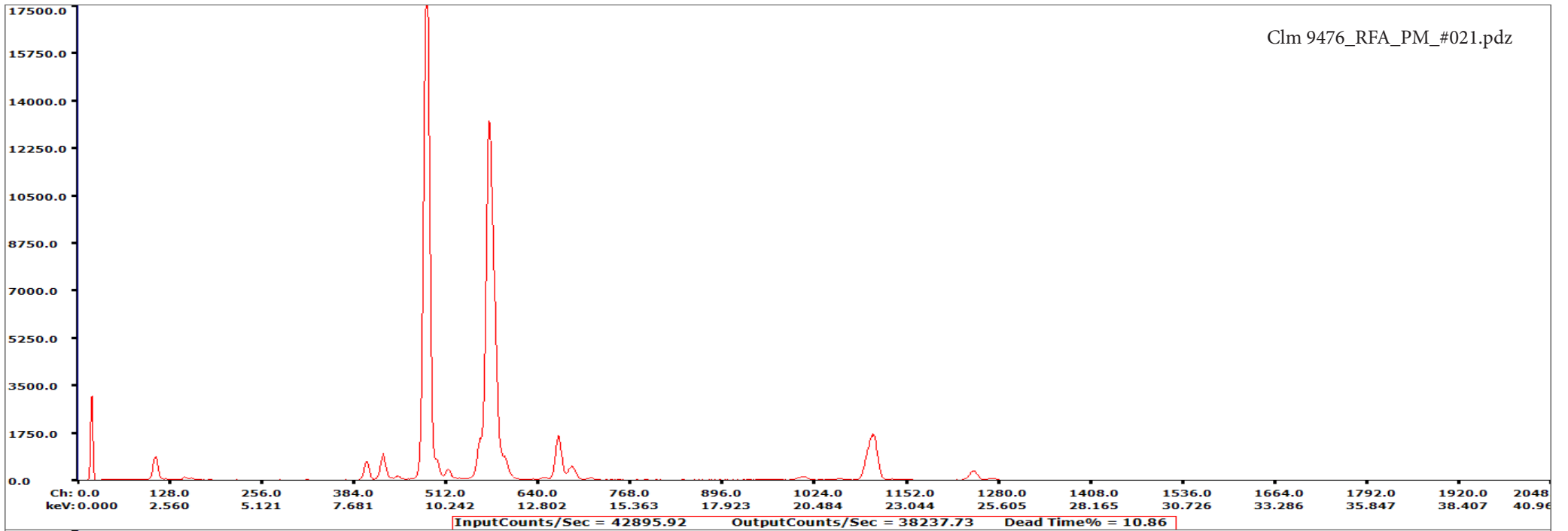
## Scanning parameters

Instrument: Bruker Tracer 5i  
Scanning mode: Precious Metals (PM)  
Spot size: 8 mm  
Scan duration: 15 s

Spectra: (filename description: signature\_RFA\_scanning mode\_number of scan.pdz)







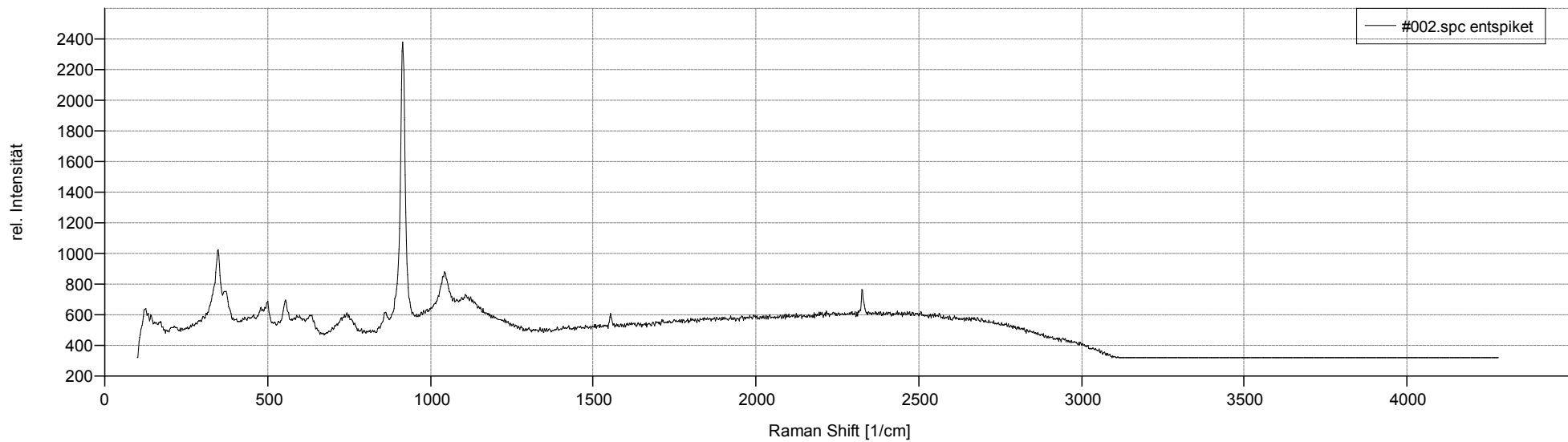
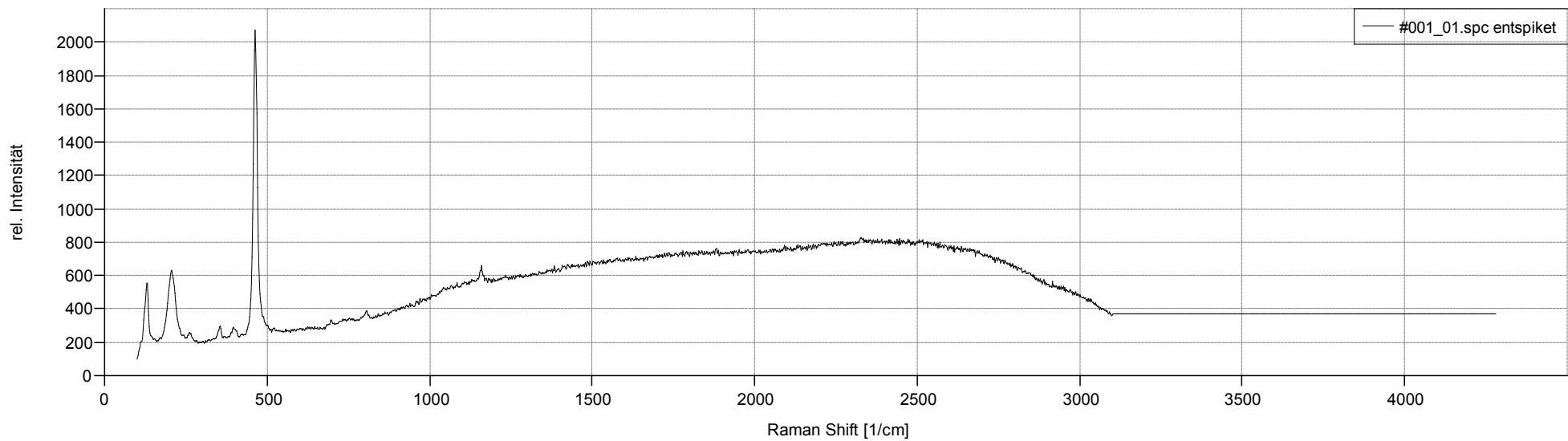
# Raman-Analysis: Mapping of measurement points and spectra Front cover

## Scanning parameters

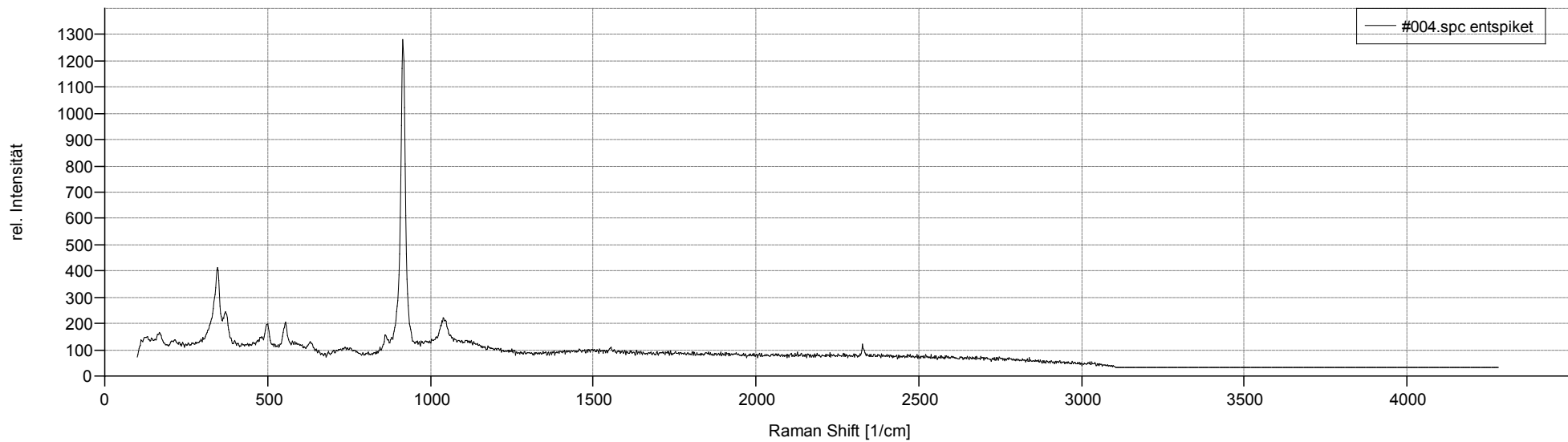
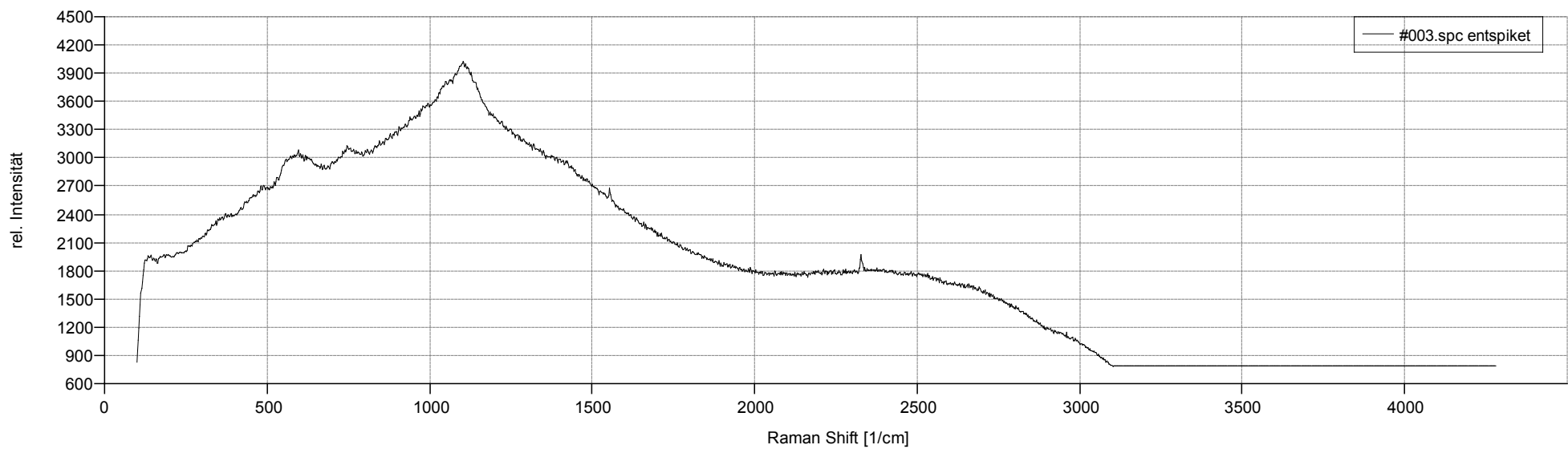
Instrument: Enwave Optronics, ProRaman-L  
Scanning mode: dispersive mode  
Laser: 532 nm, max. 50 mW  
Spectral resolution: 7 cm<sup>-1</sup>  
Spectral range: 100-3100 cm<sup>-1</sup>

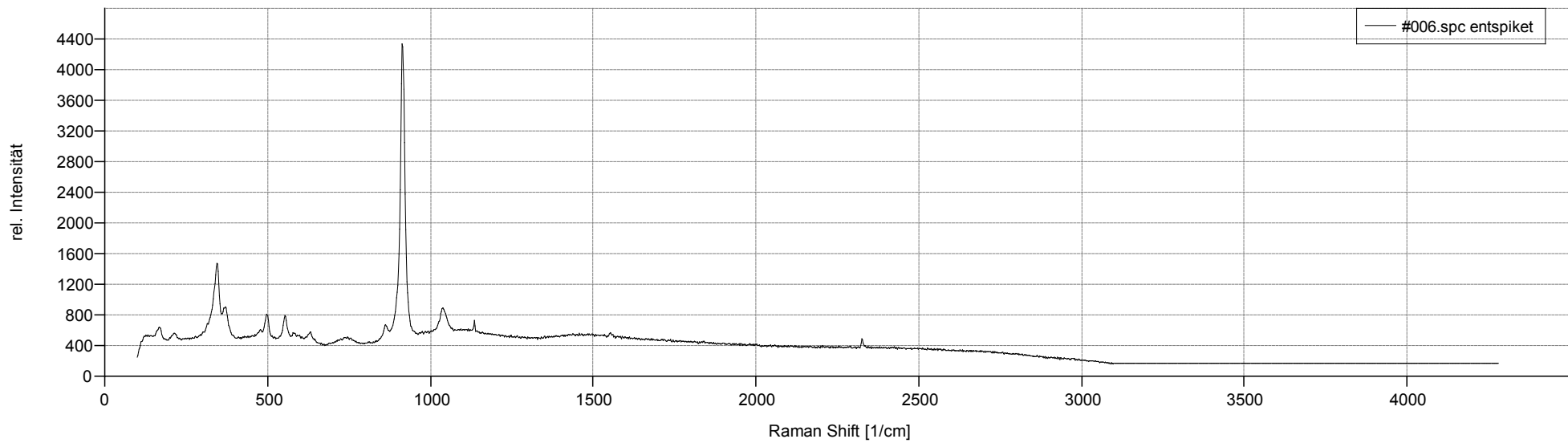
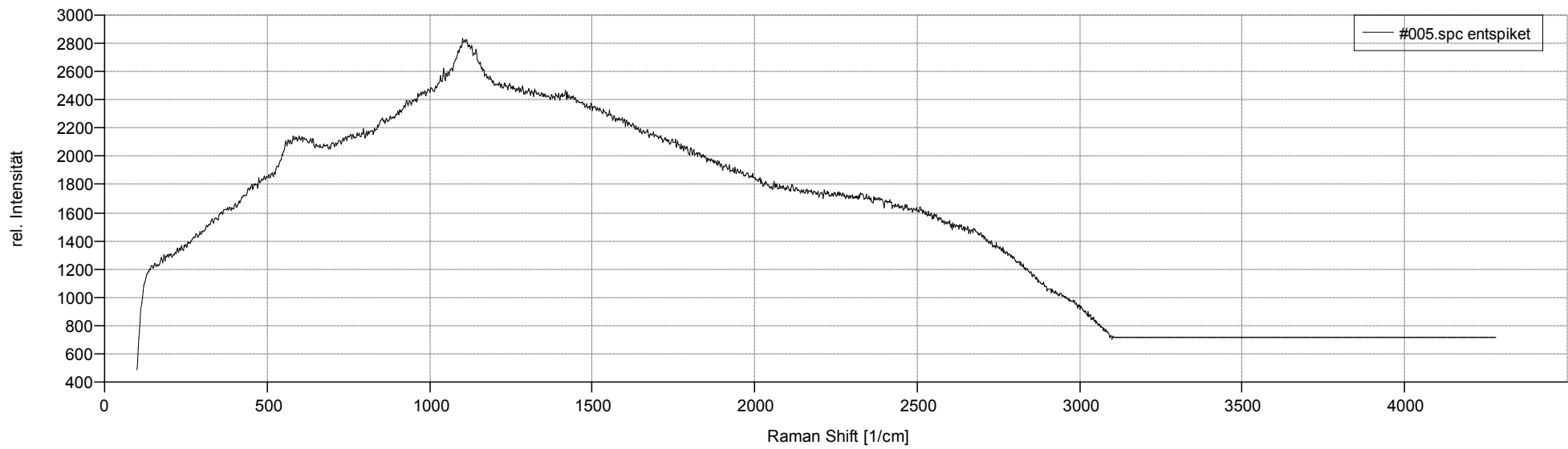
Spectra:  
(filename description: #number of scan.dx)

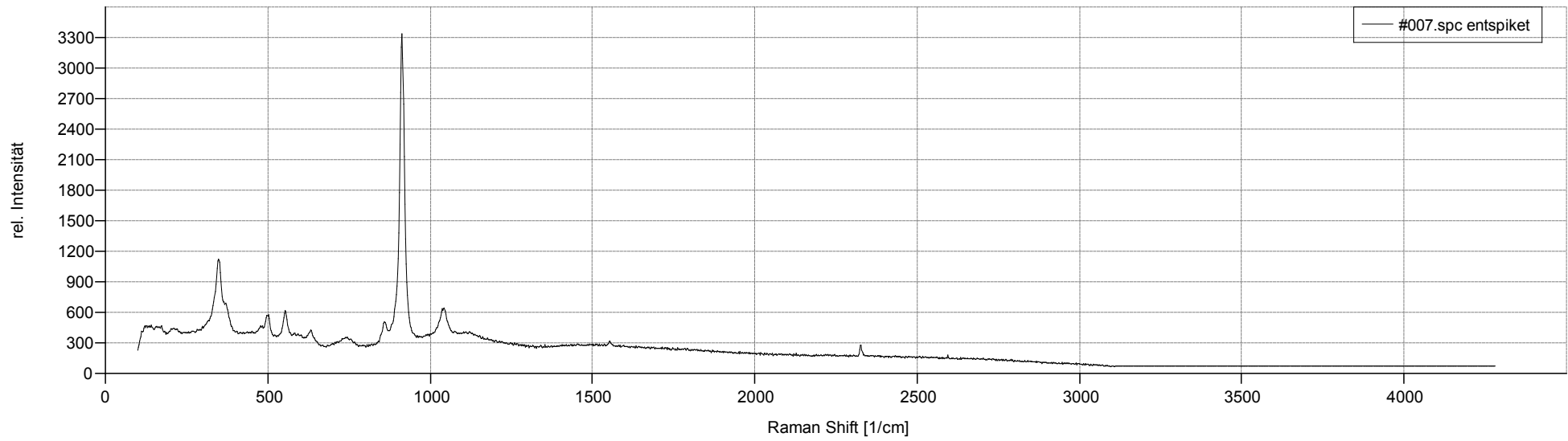


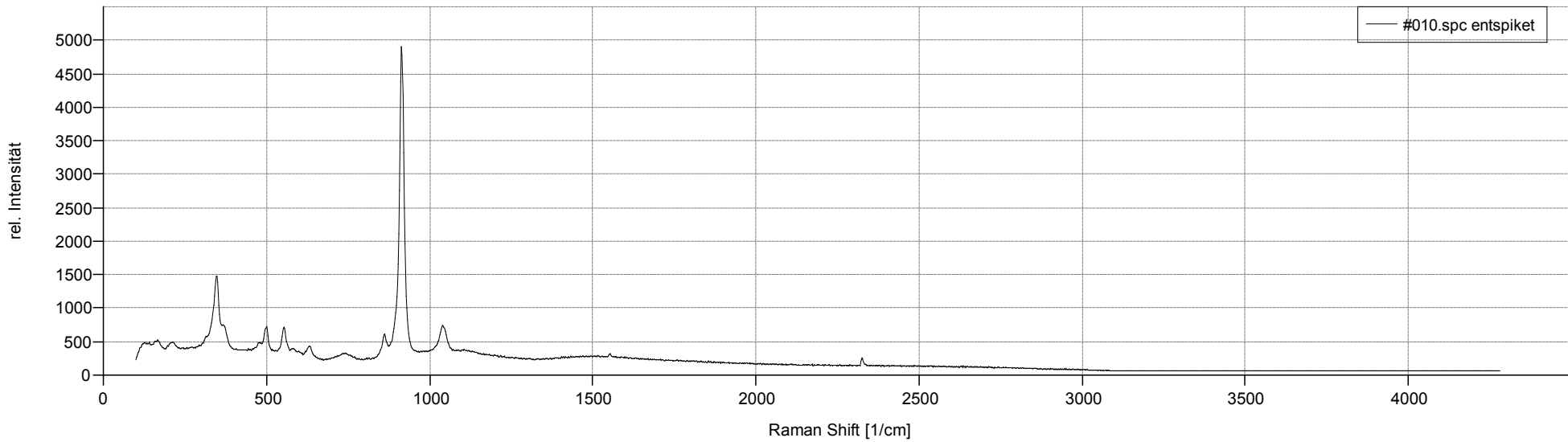
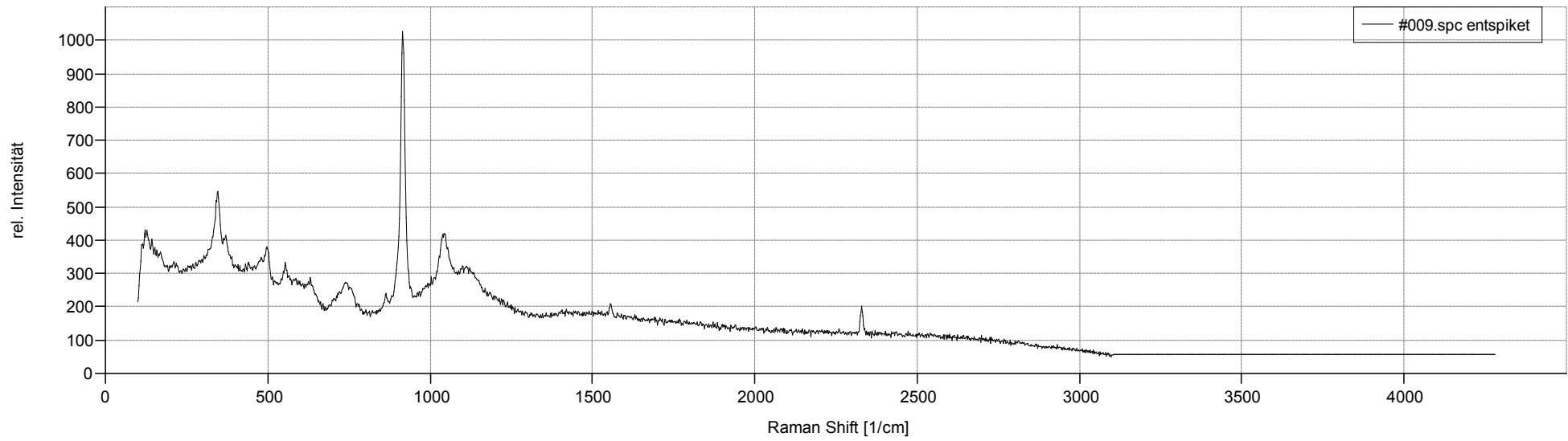


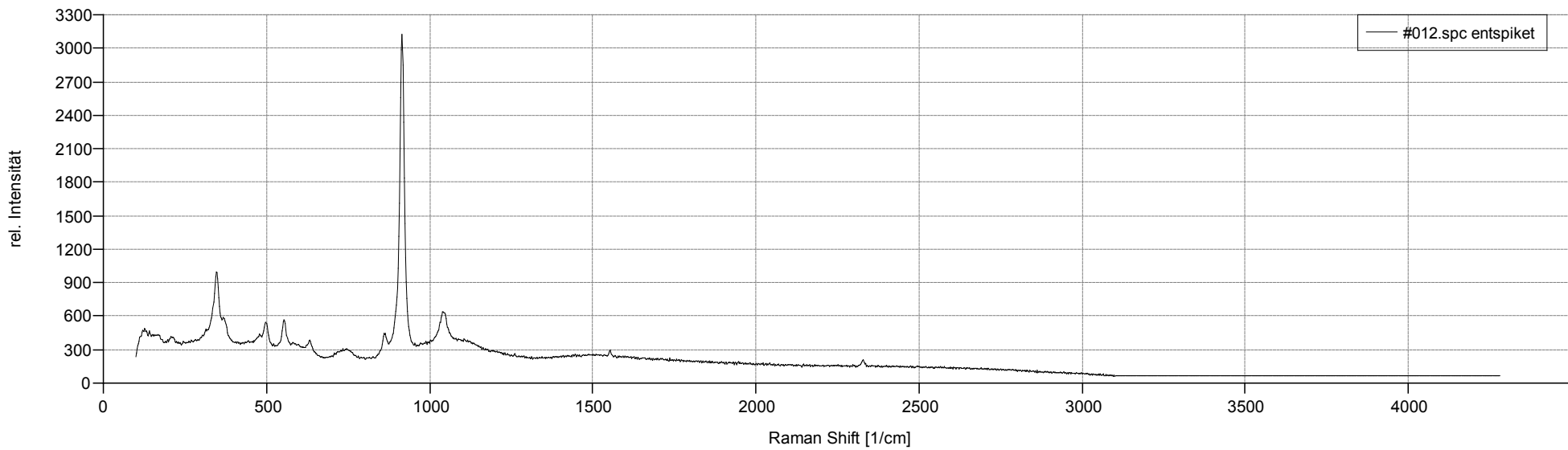
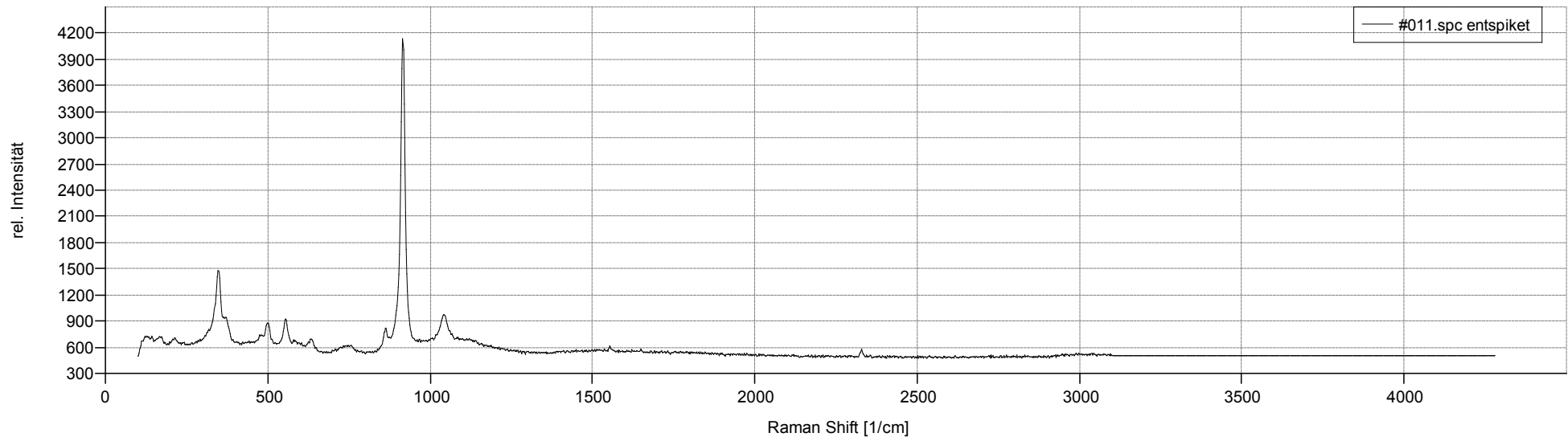


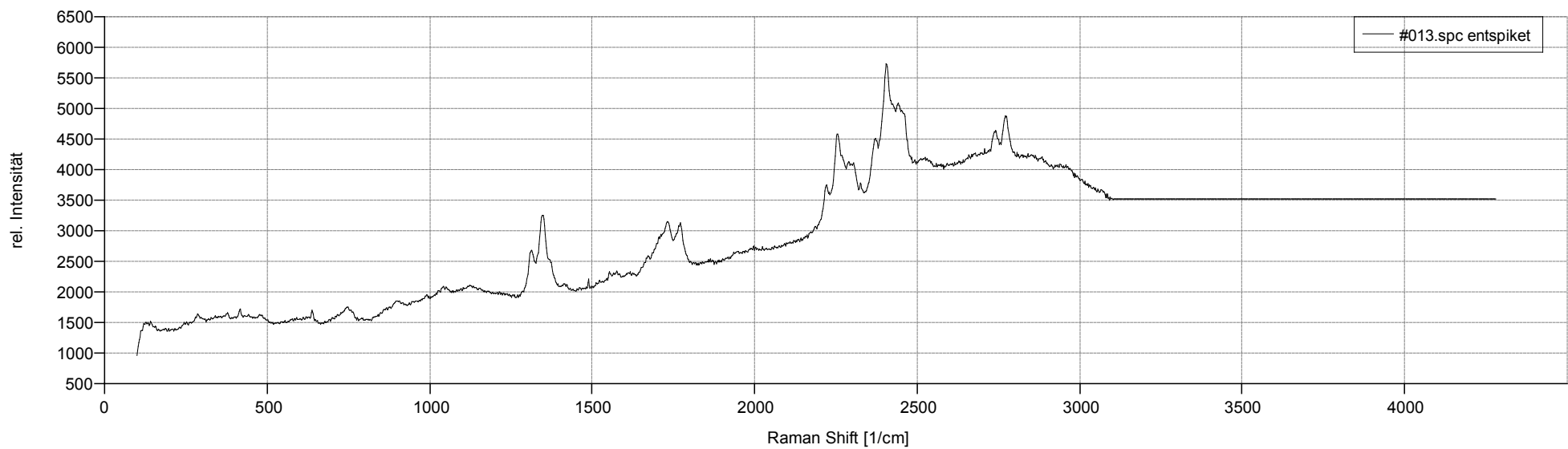


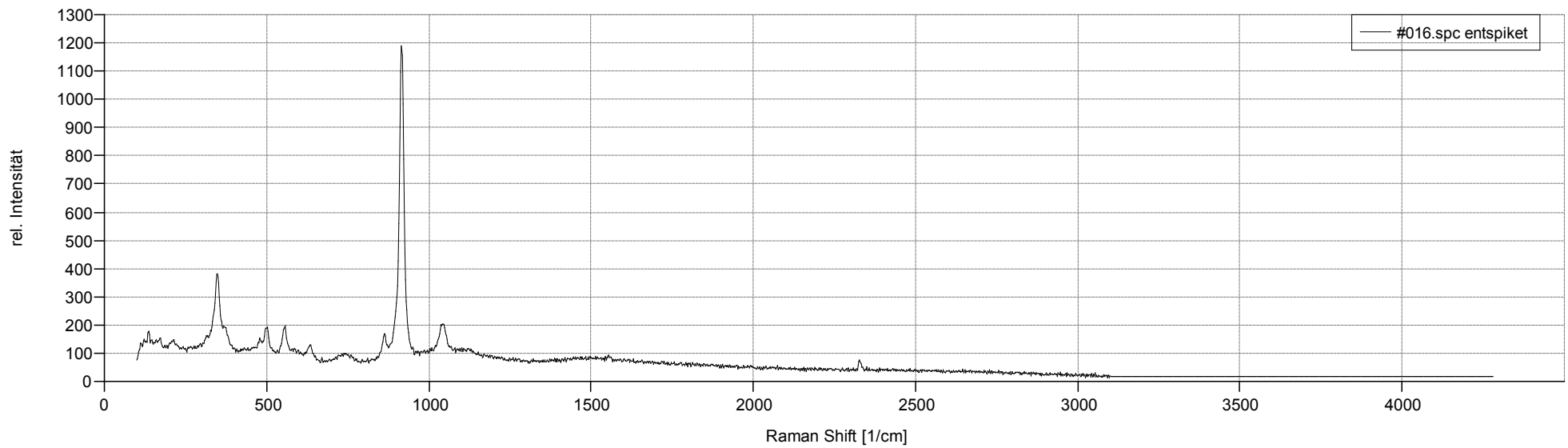
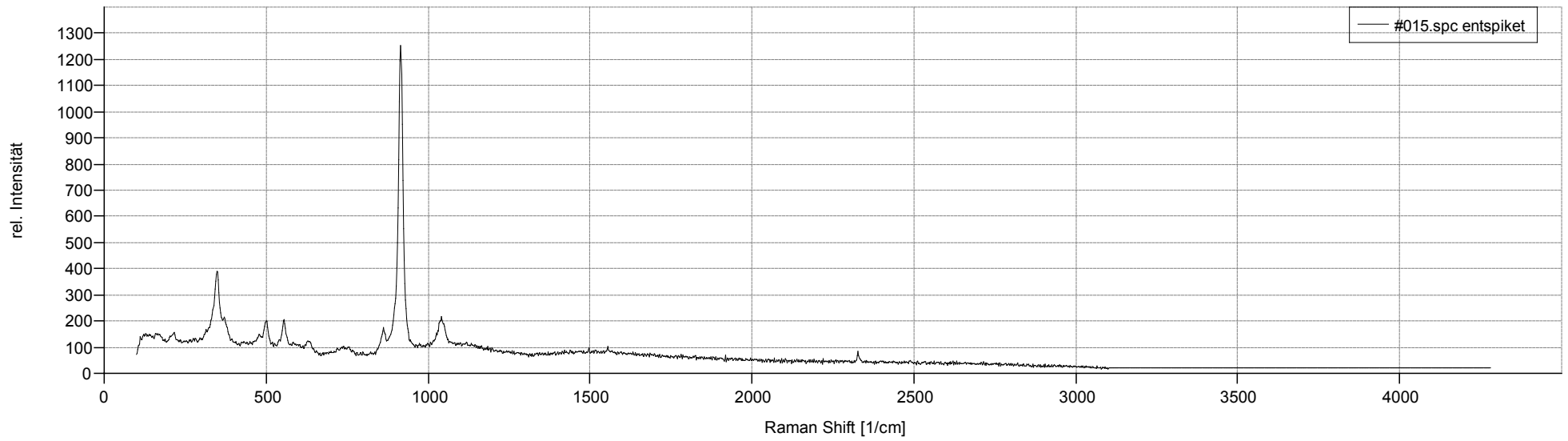


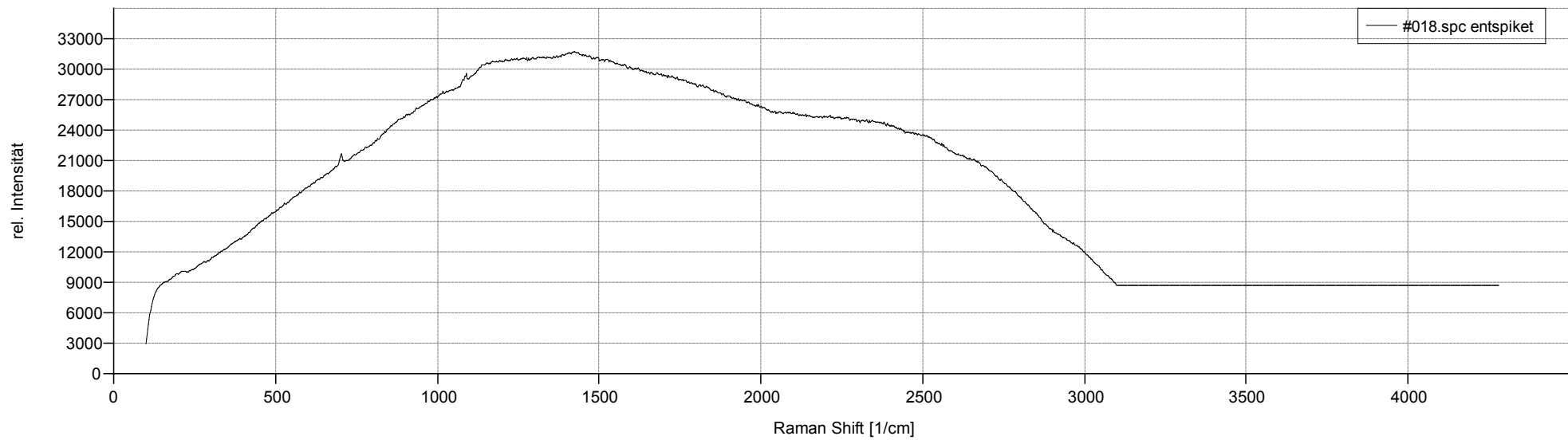
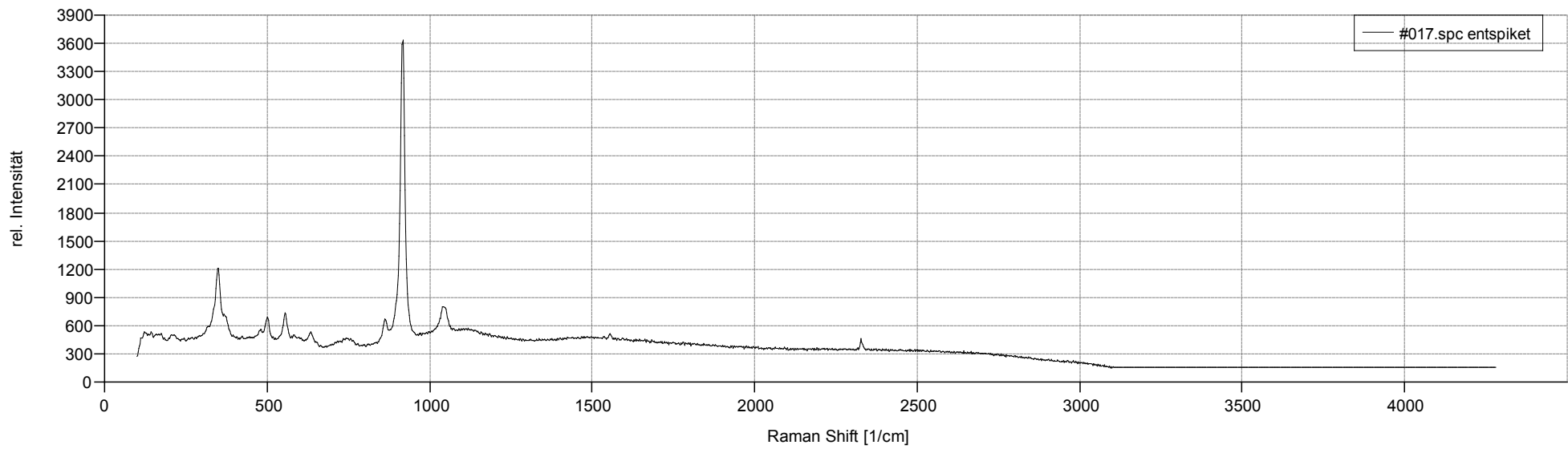




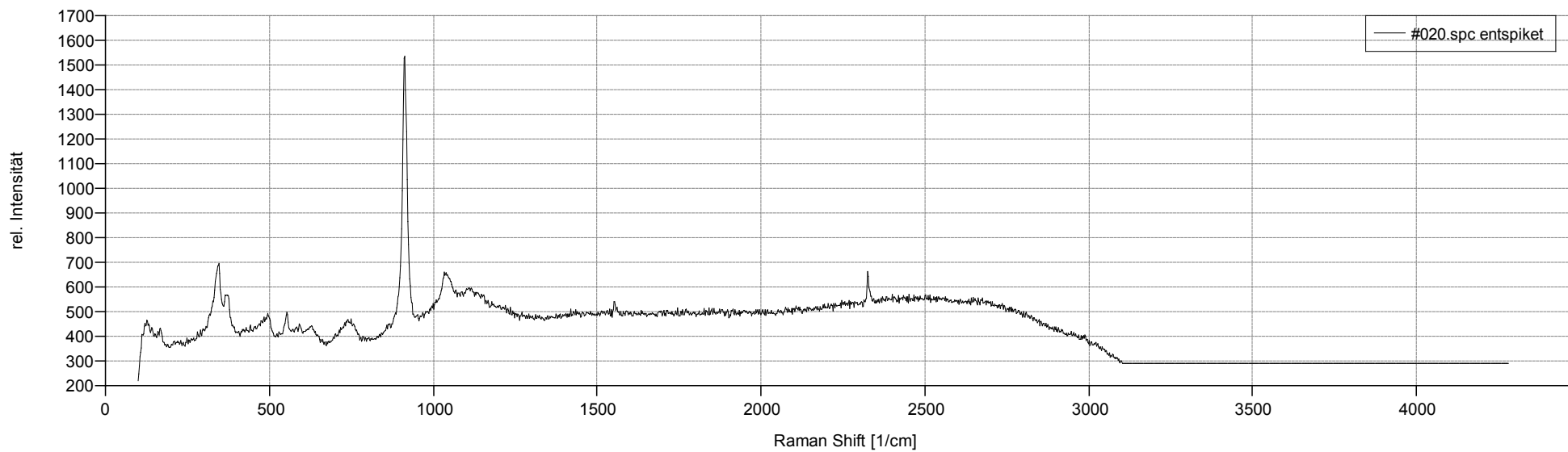
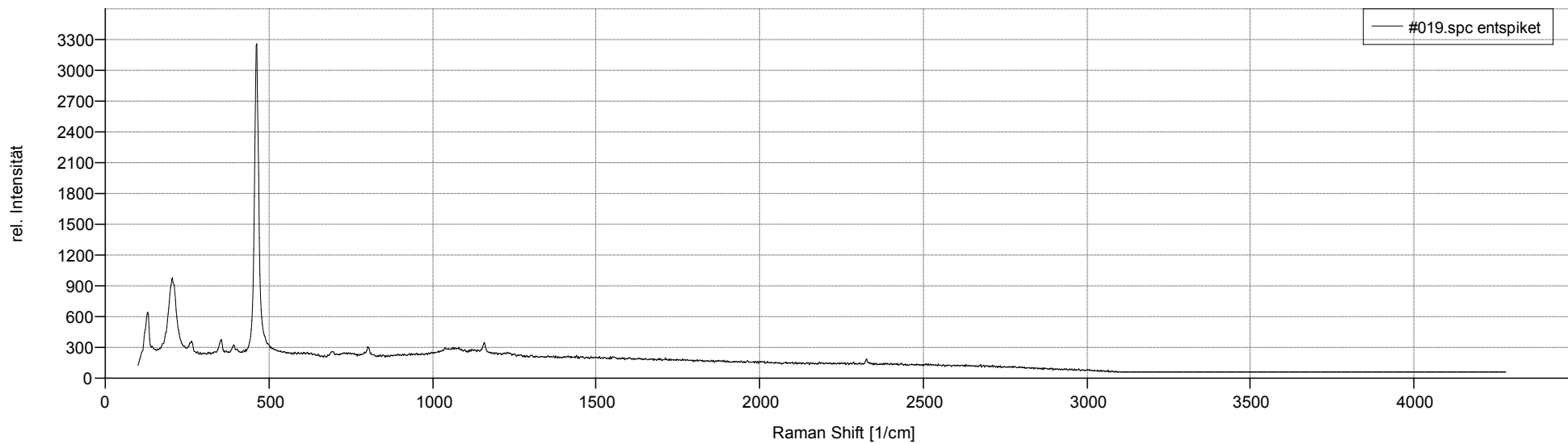


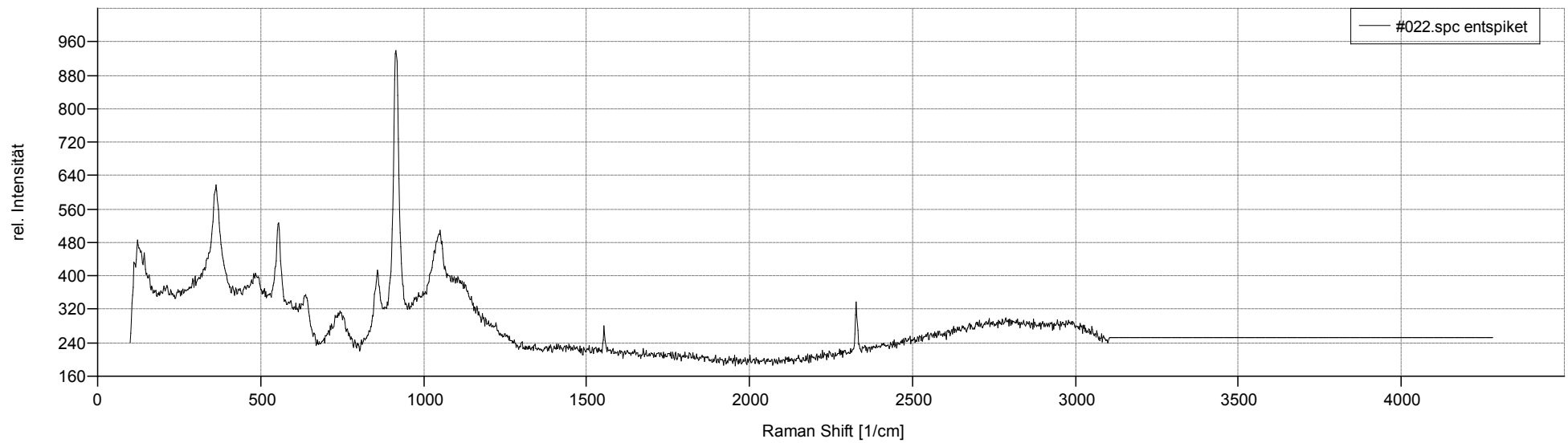
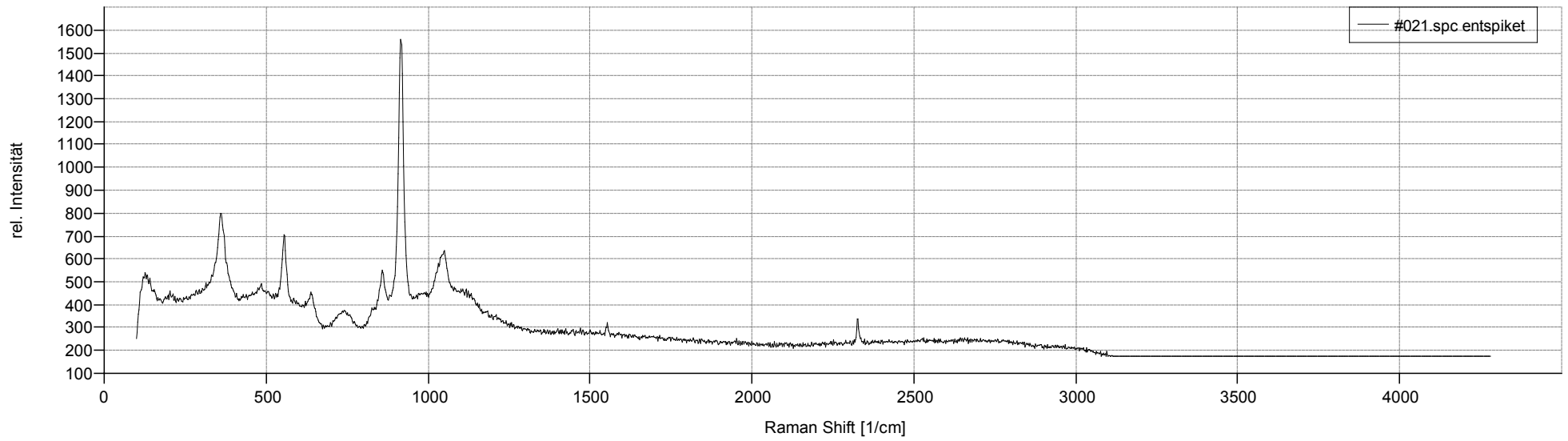


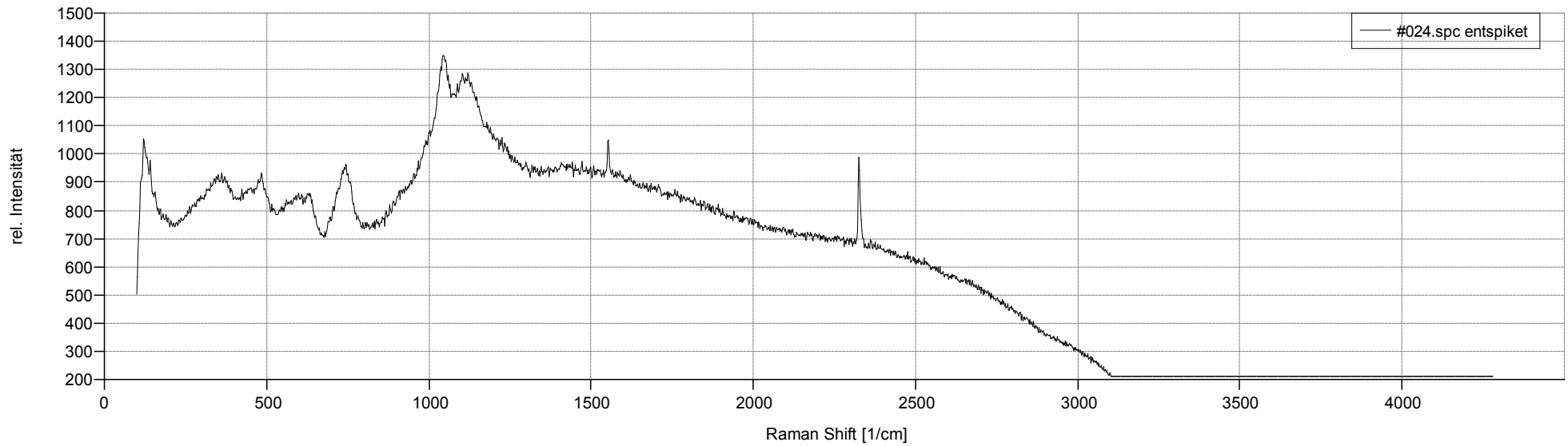


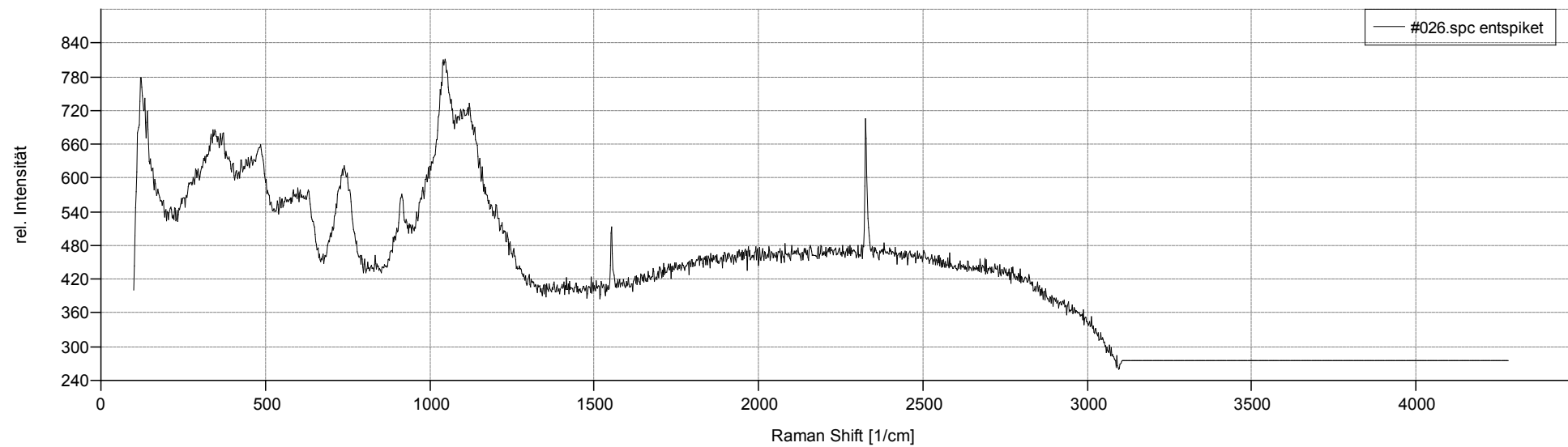
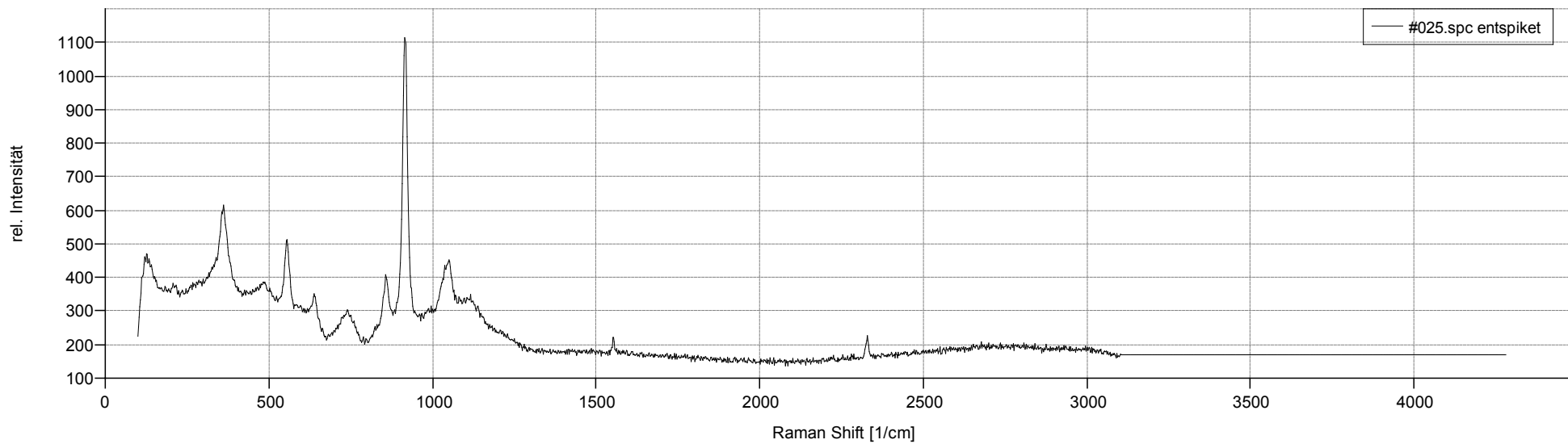


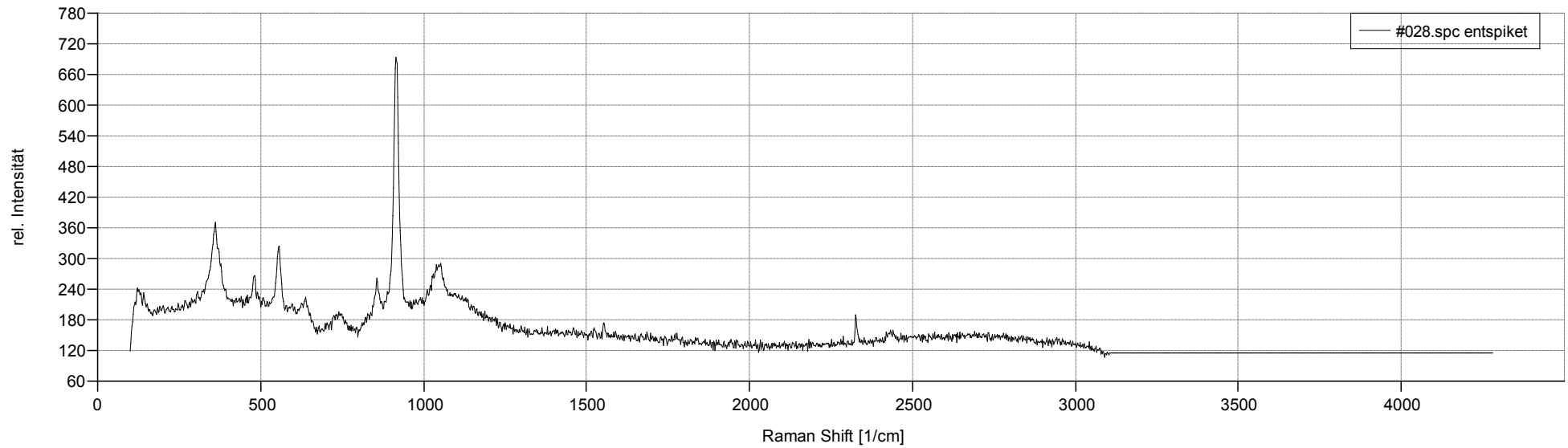


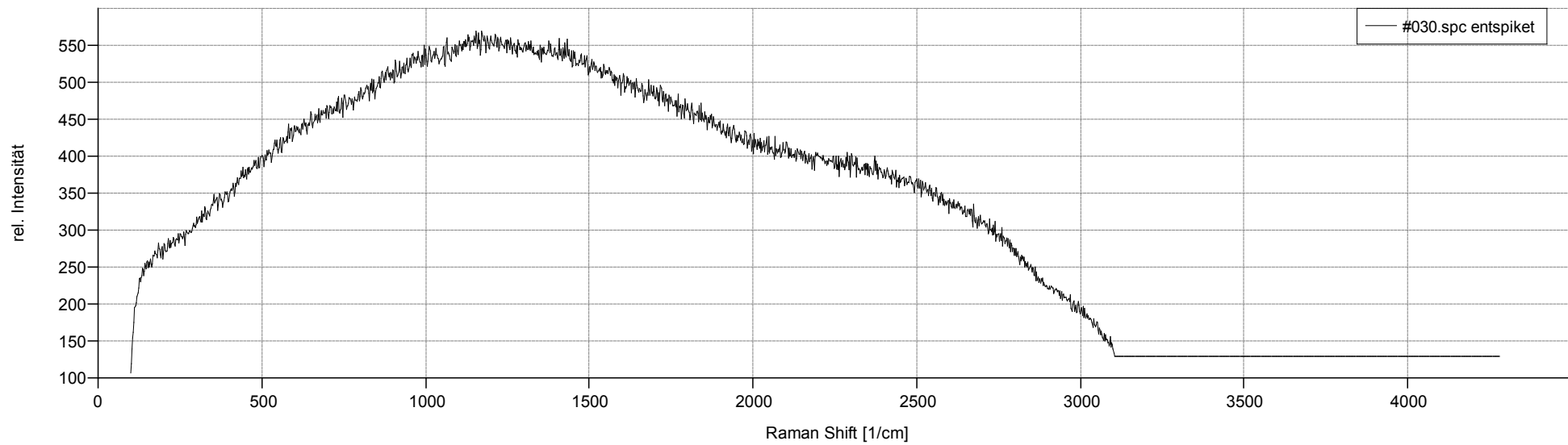
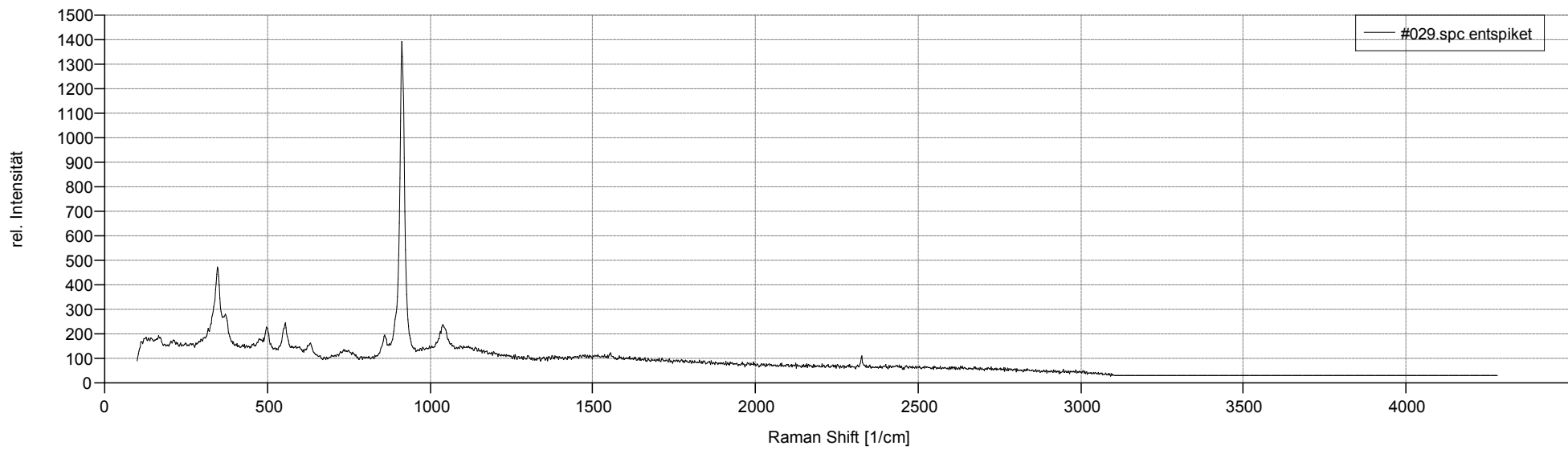


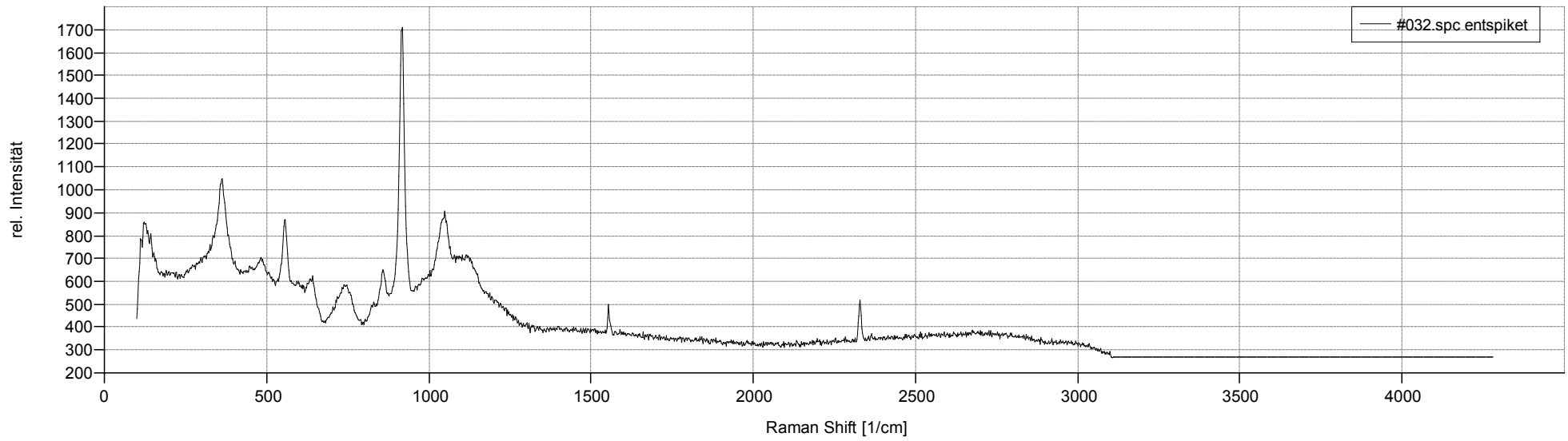
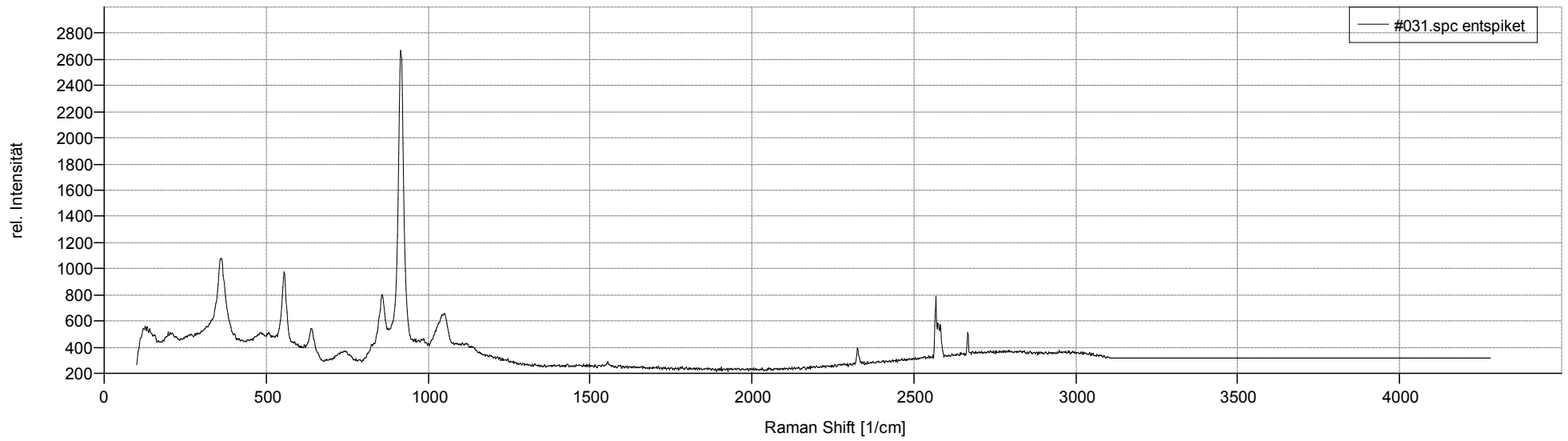


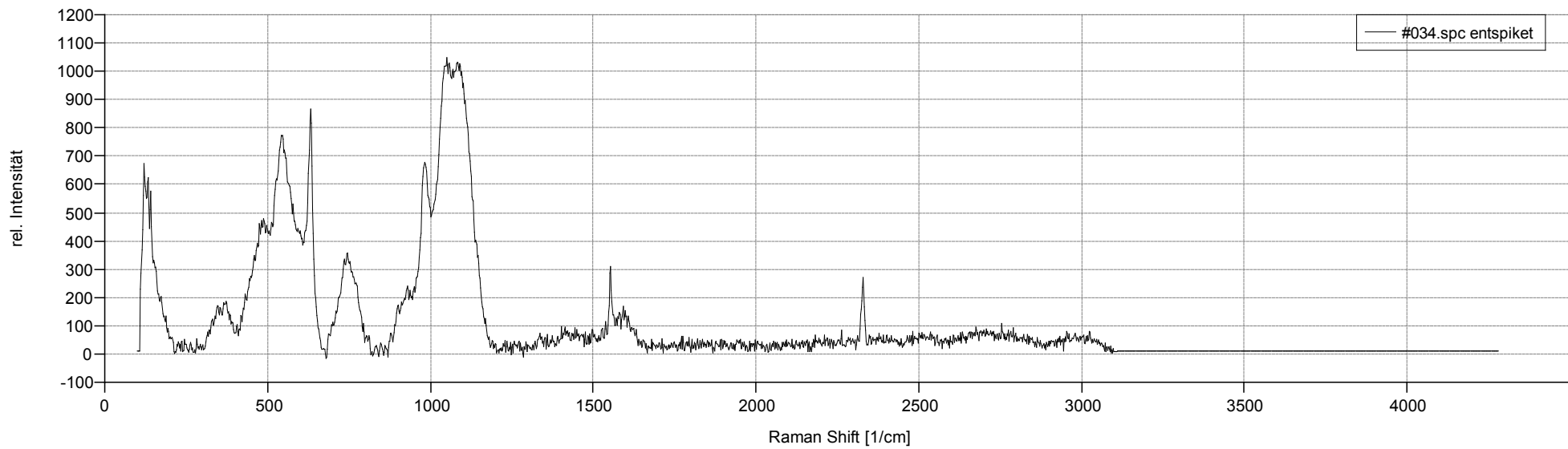
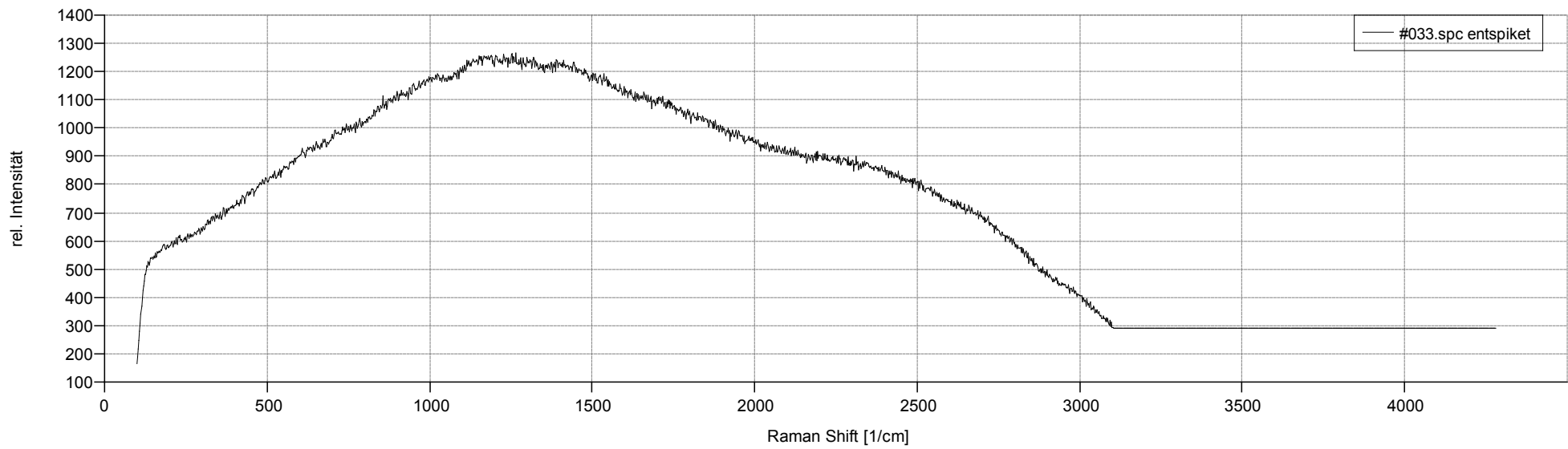




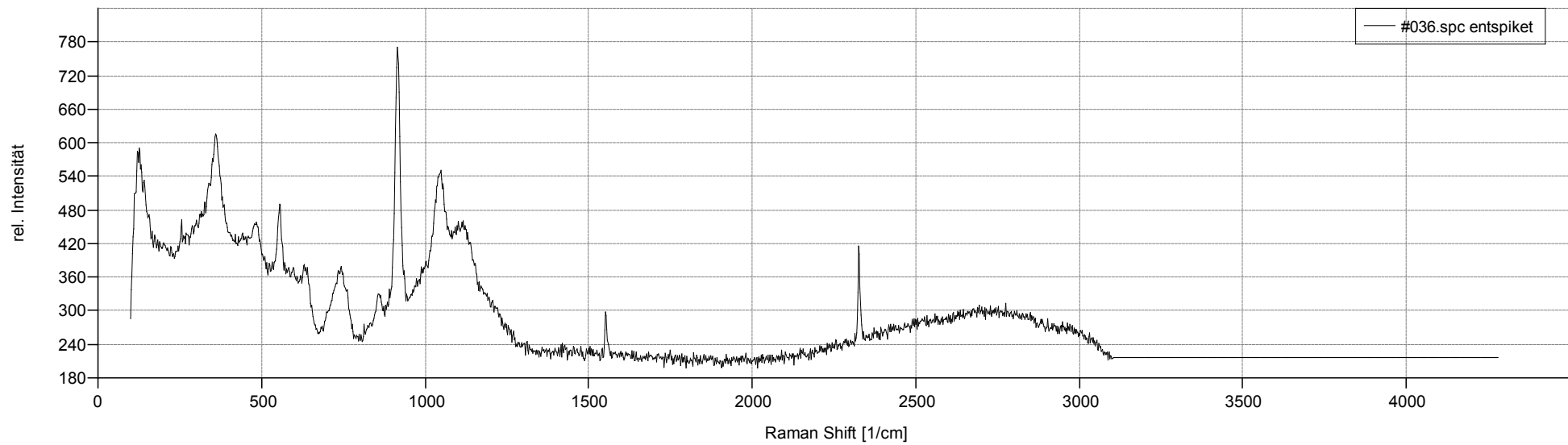
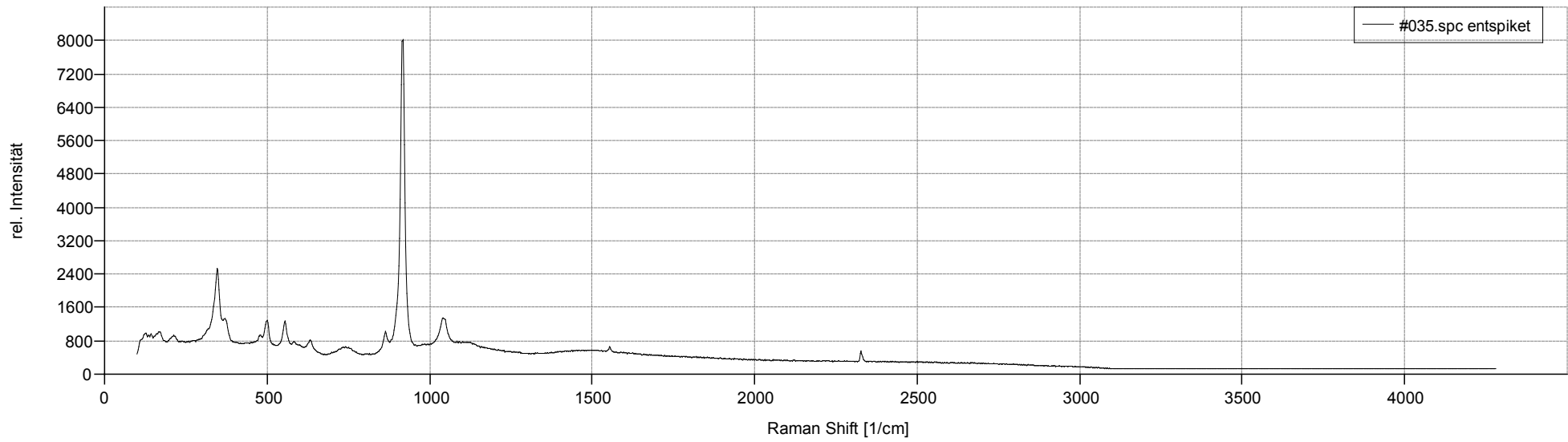


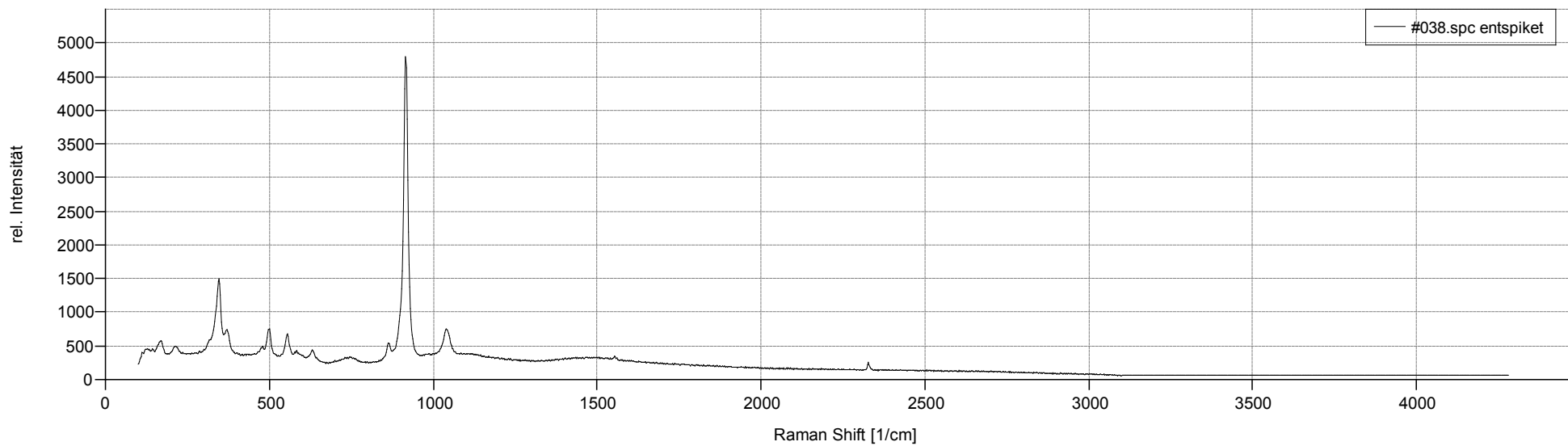
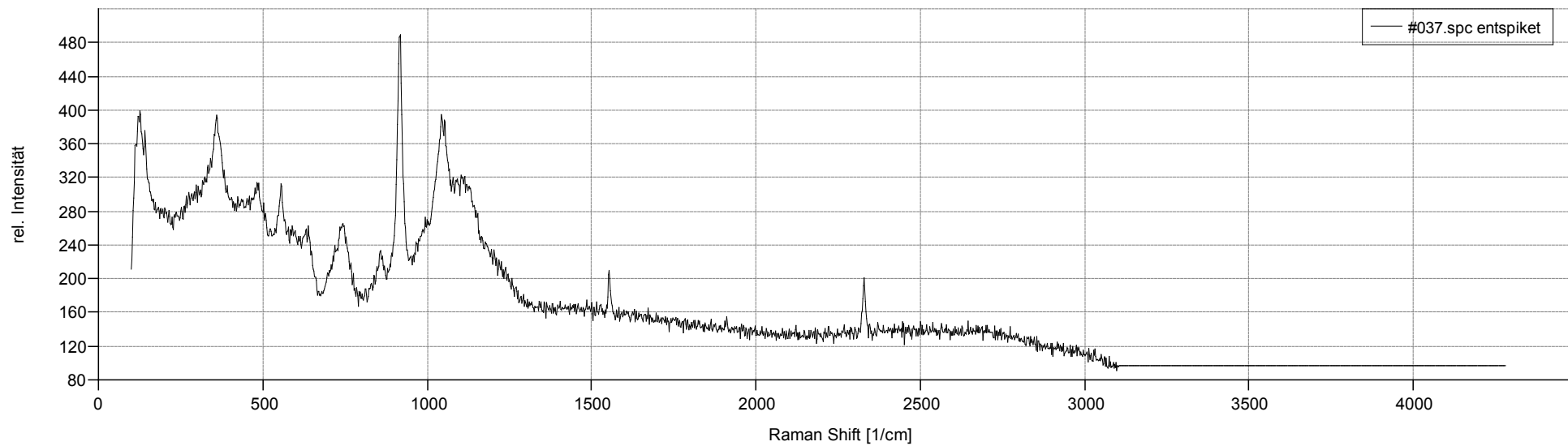


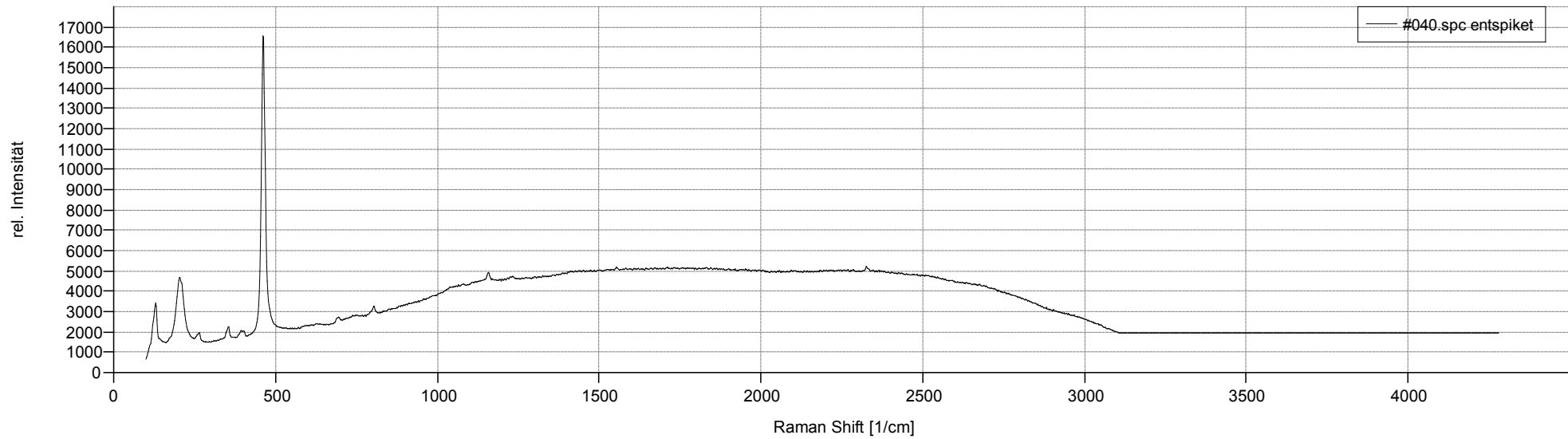
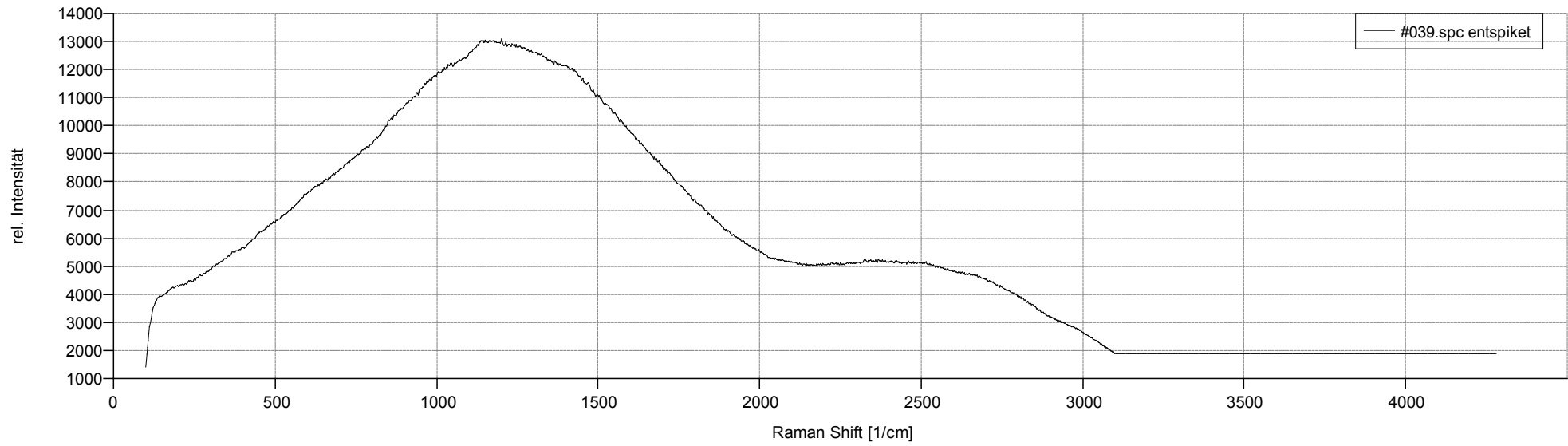


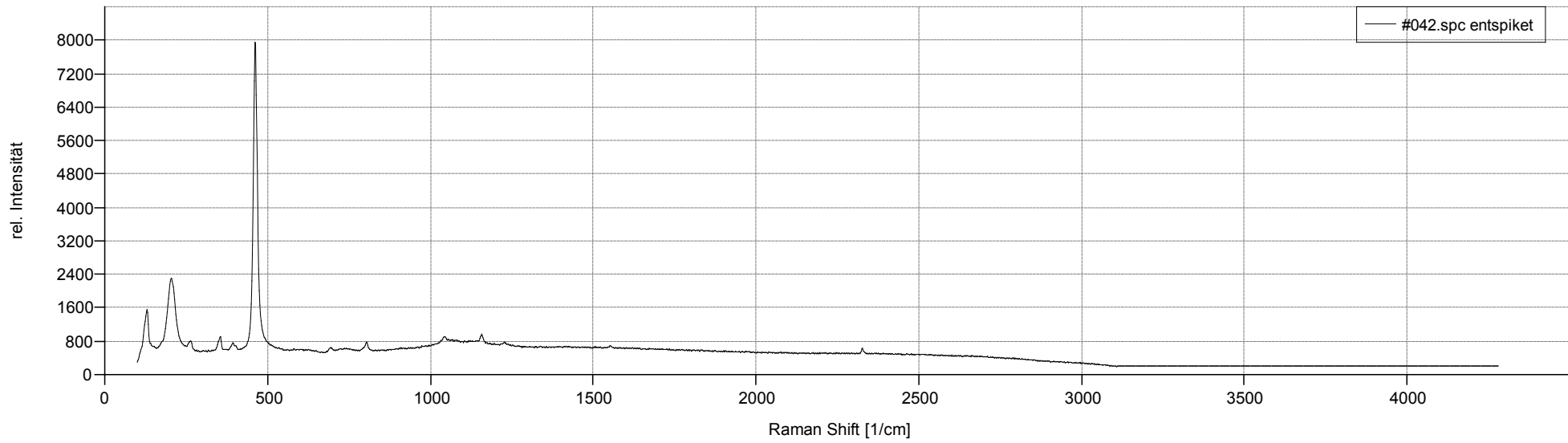
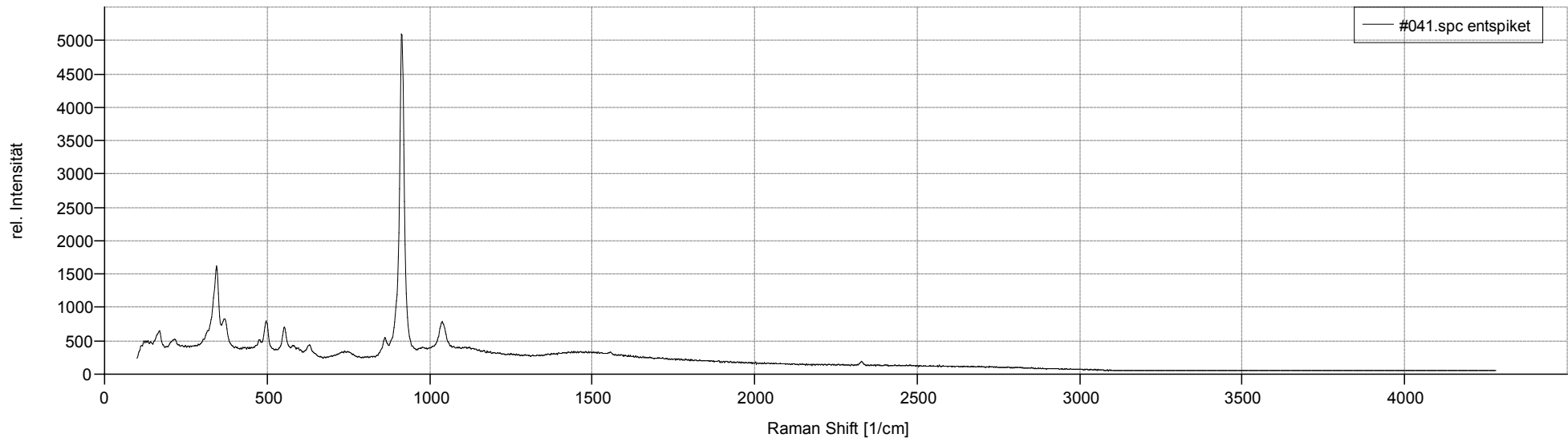


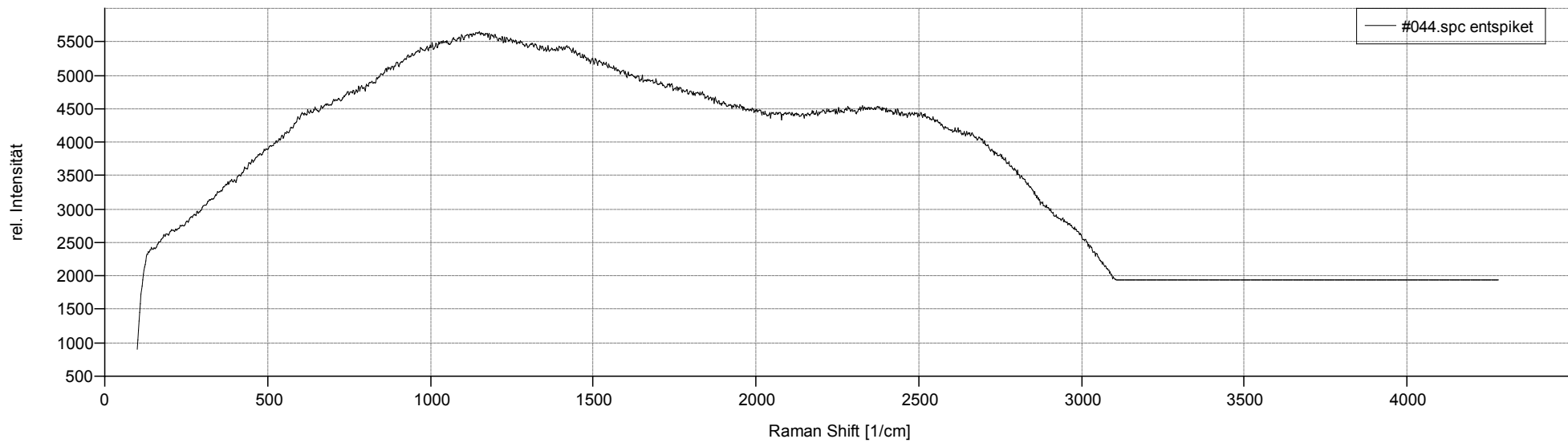
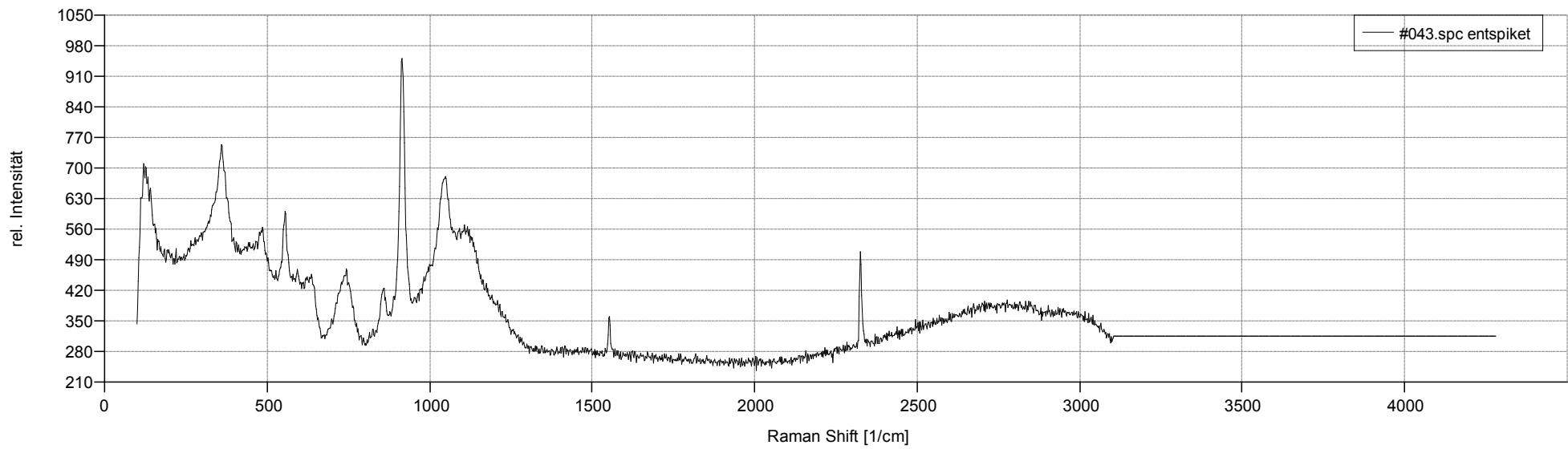


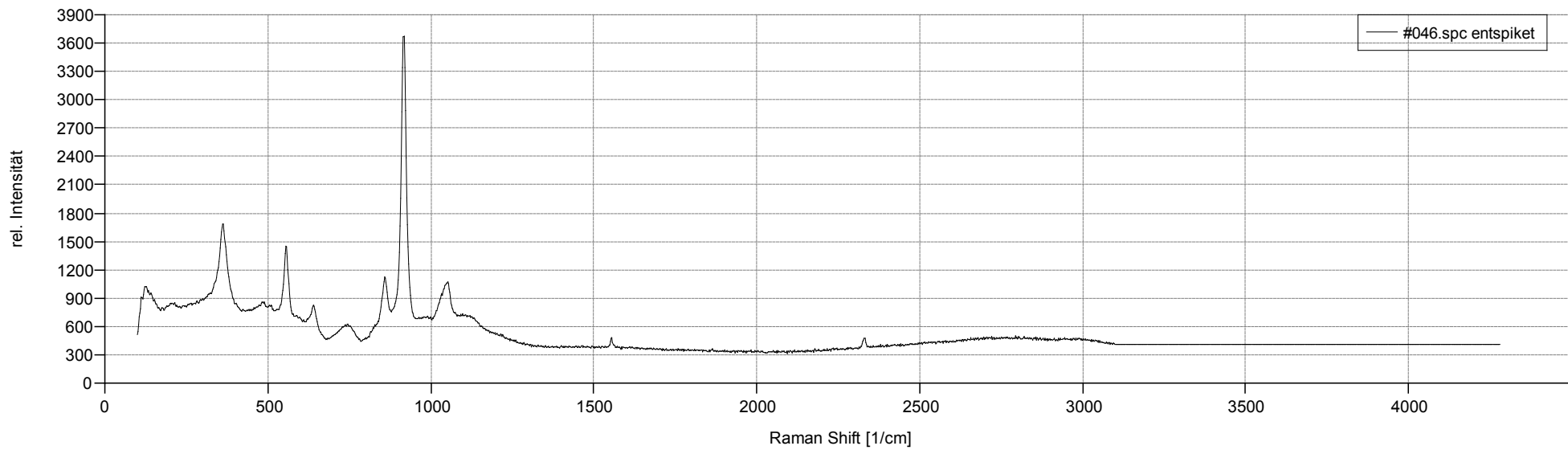
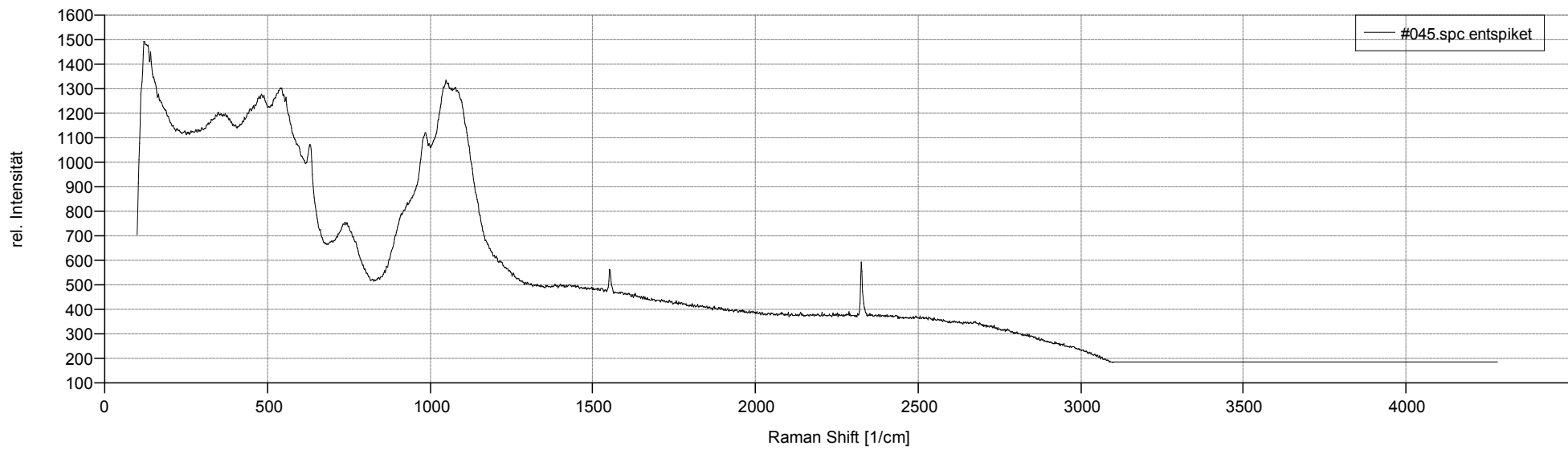


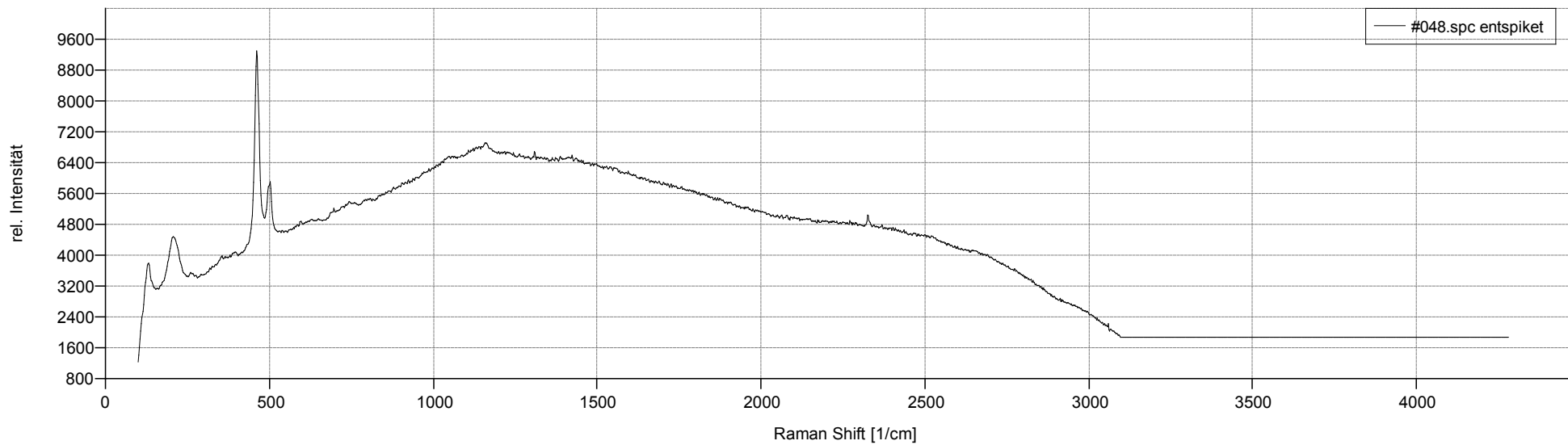
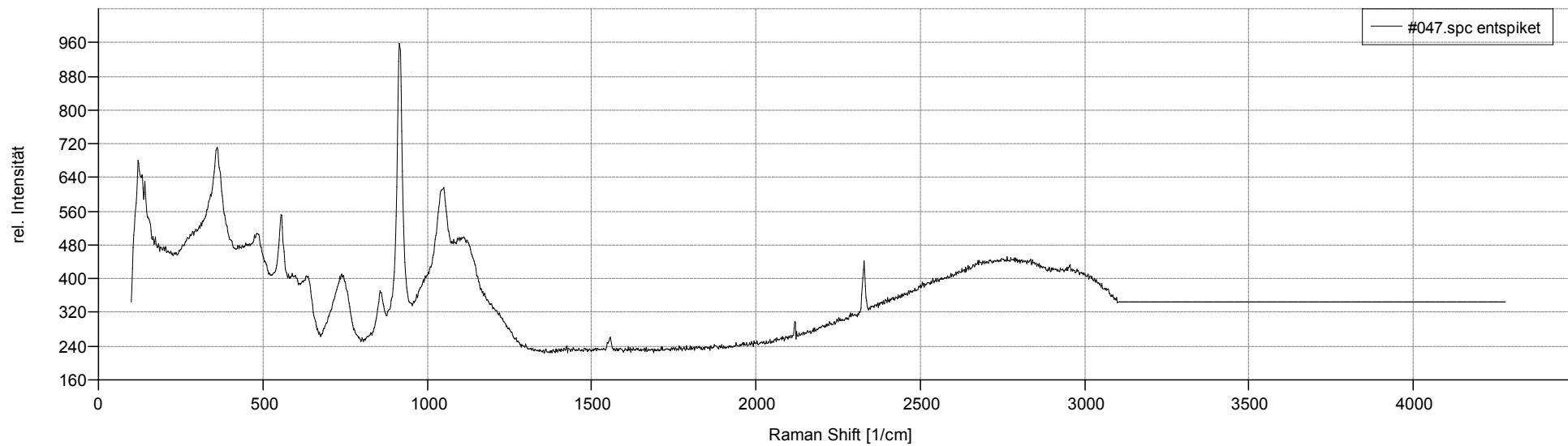


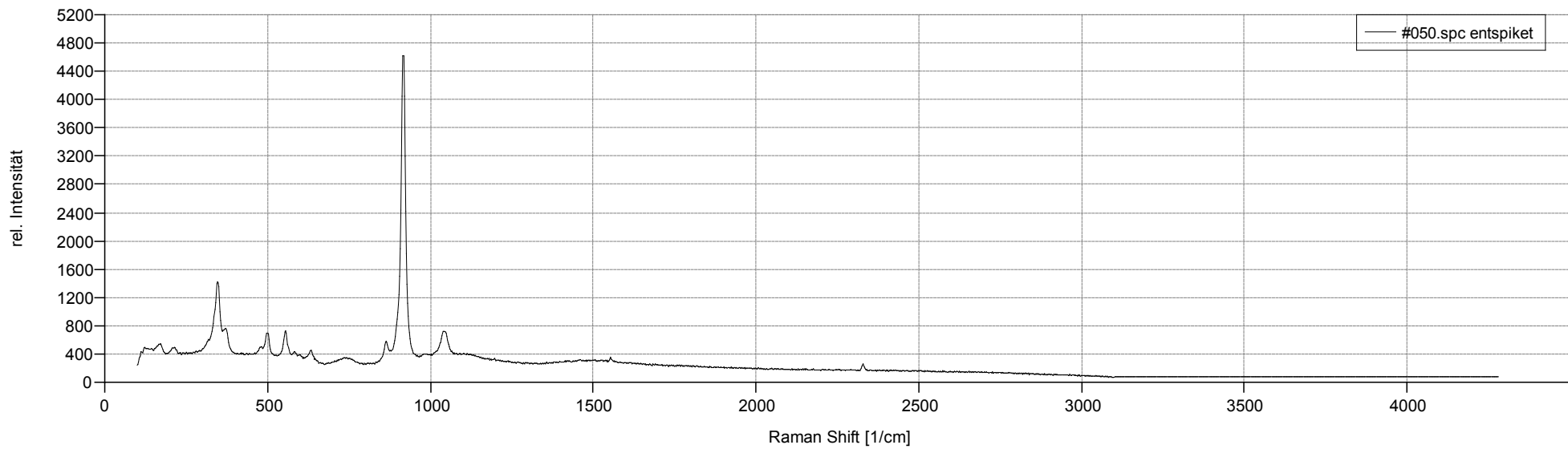
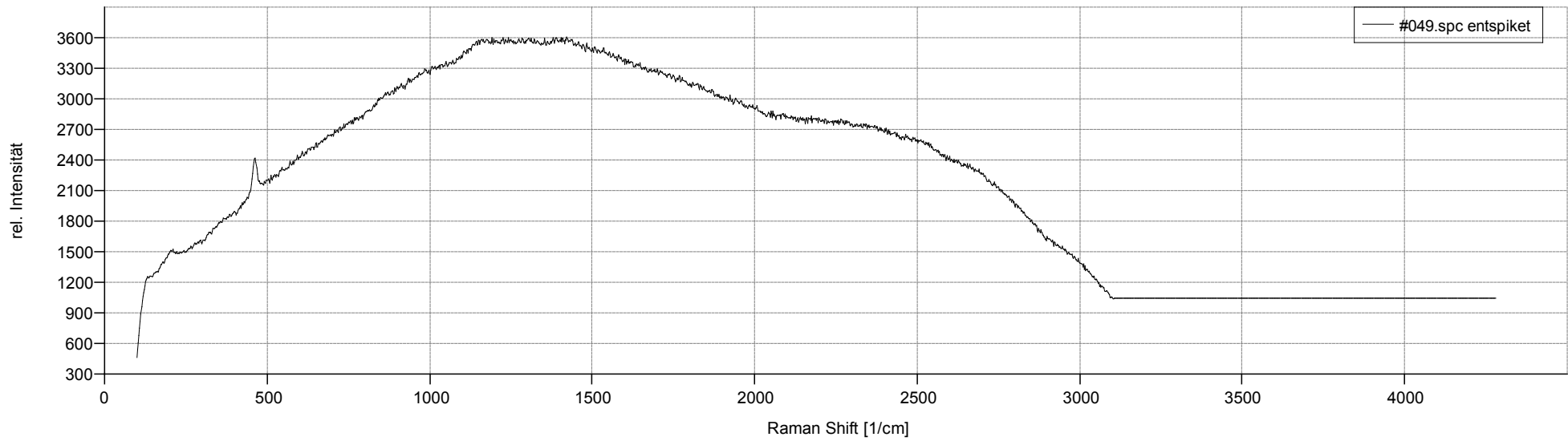




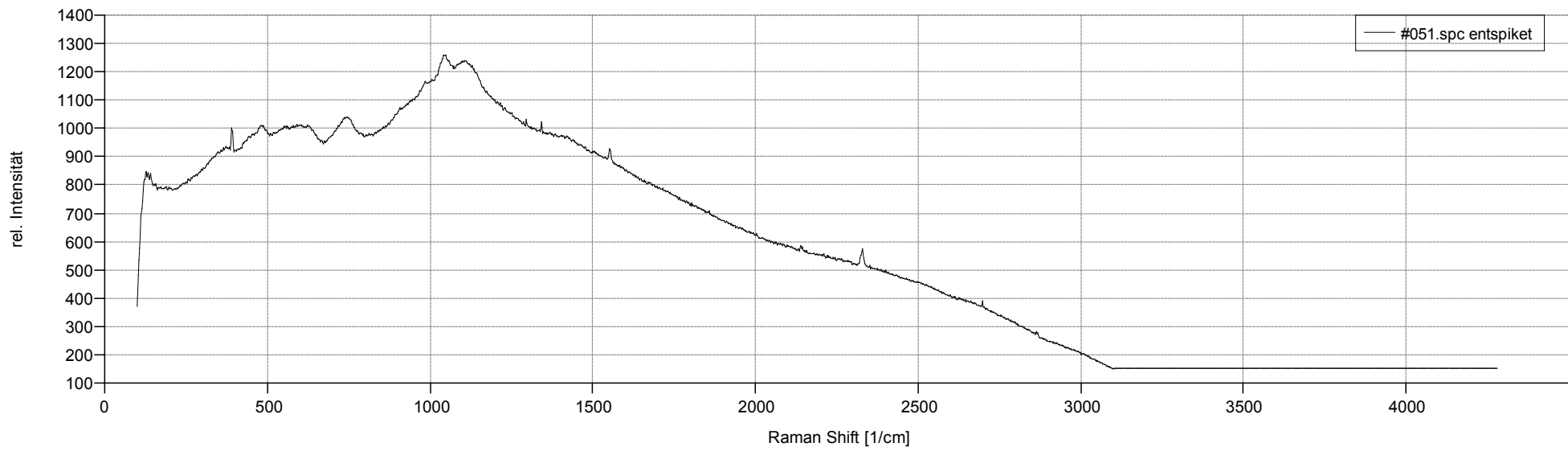












# Raman-Analysis: Mapping of measurement points and spectra Fore edge

## Scanning parameters

Instrument: Enwave Optronics, ProRaman-L  
Scanning mode: dispersive mode  
Laser: 532 nm, max. 50 mW  
Spectral resolution: 7  $\text{cm}^{-1}$   
Spectral range: 100-3100  $\text{cm}^{-1}$

Spectra:  
(filename description: #number of scan.dx)

