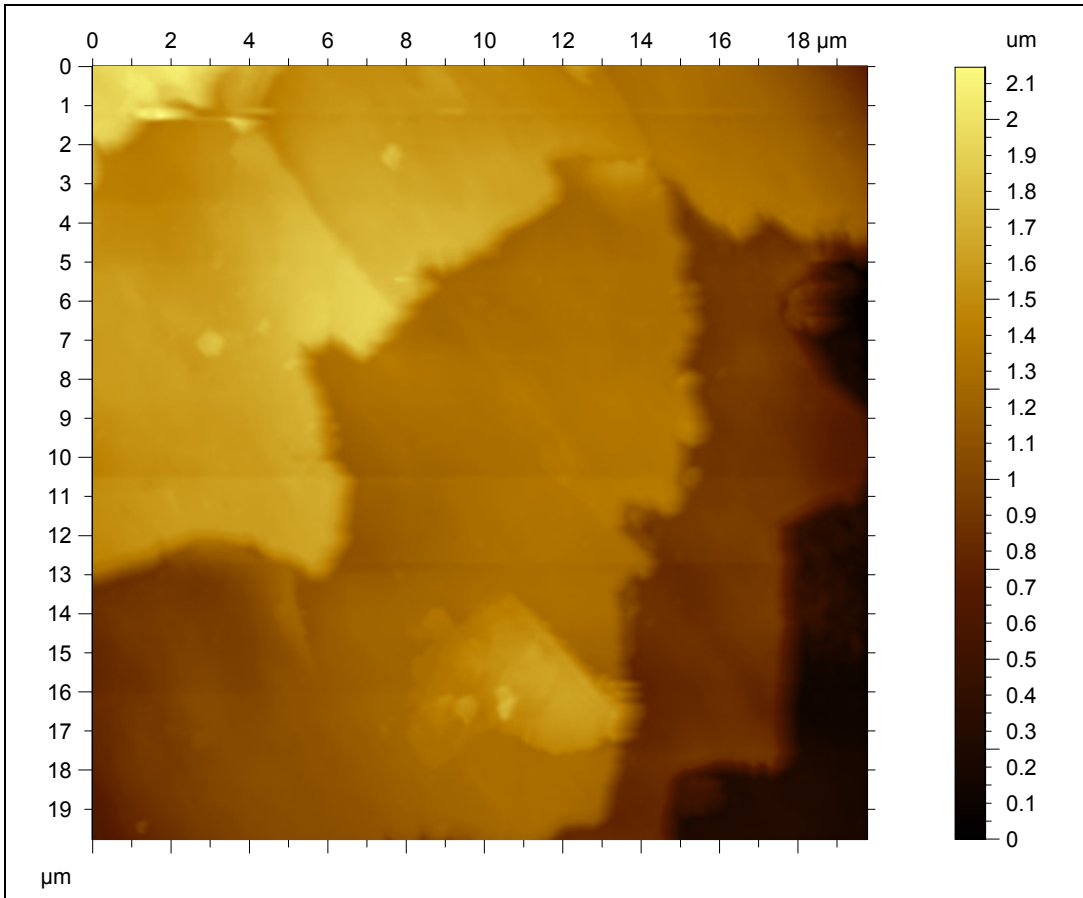


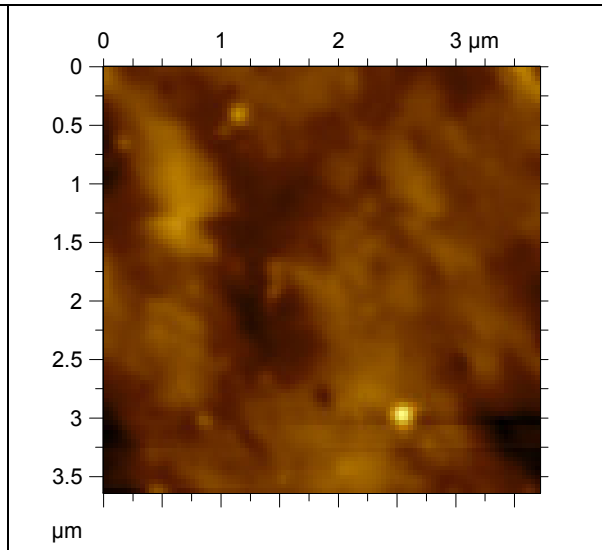
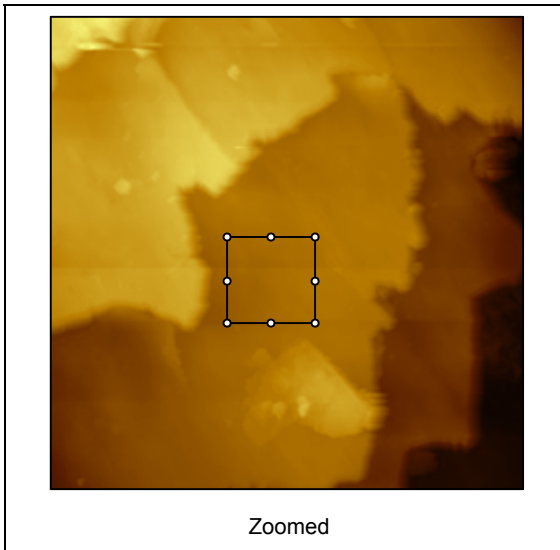
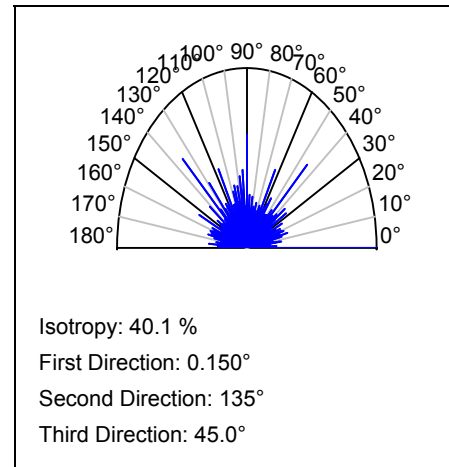
# AC Mode Topographic analysis of hair sample



**Left: Topography Image**

**Scan size: 20 x 20 micron**  
**Tip resonance frequency: 150 KHz**  
**Scanning speed: 2 l/s**  
**Imaging media: air**

**Below: Texture orientation analysis**

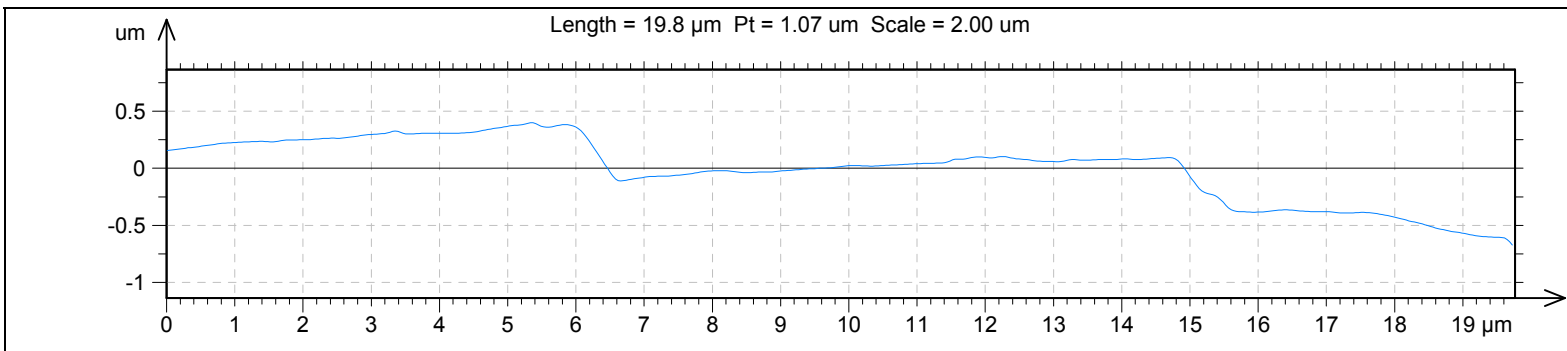


## ISO 25178

### Height Parameters

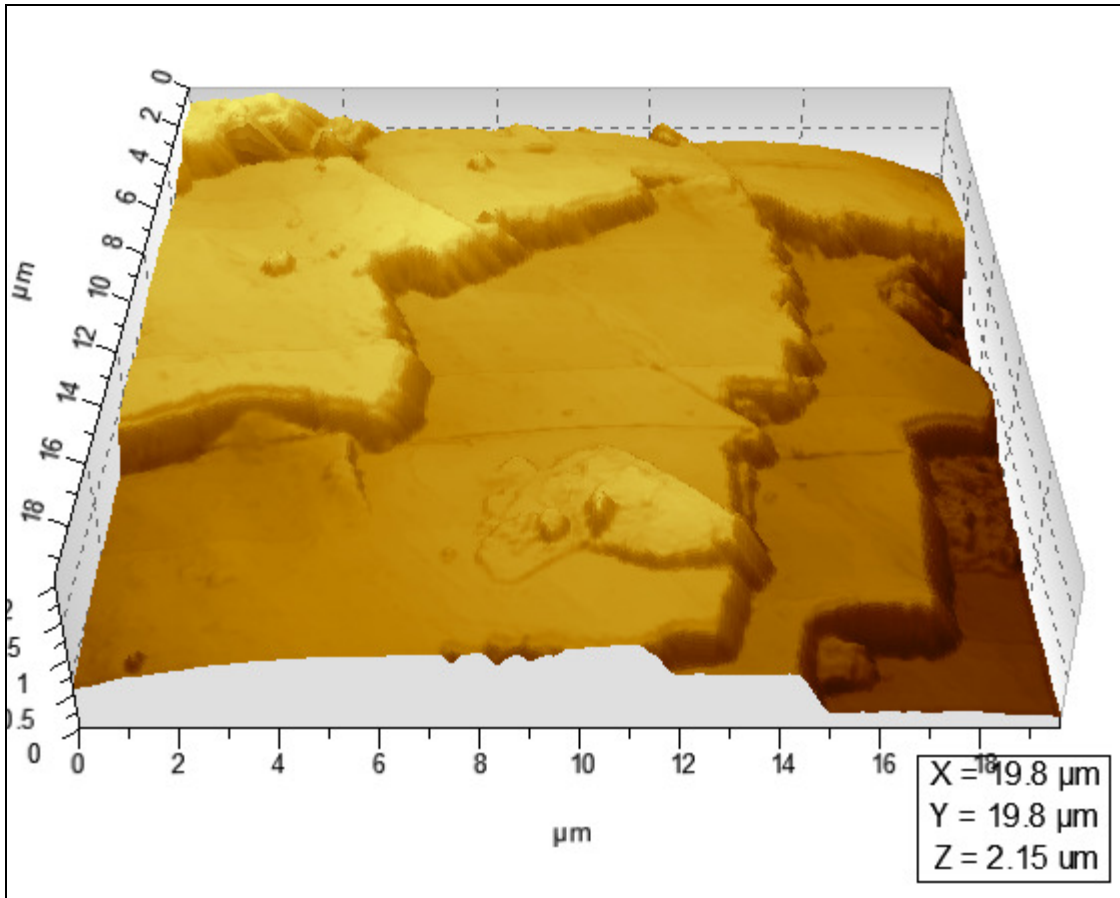
<b>Sq</b>	7.35	nm
<b>Ssk</b>	-0.283	
<b>Sku</b>	5.07	
<b>Sp</b>	46.2	nm
<b>Sv</b>	29.8	nm
<b>Sz</b>	76.0	nm
<b>Sa</b>	5.43	nm

**Above: Local area roughness analysis.**  
**Below: profile analysis**



**For demonstration purposes only!**

# AC Mode Topographic analysis of hair sample

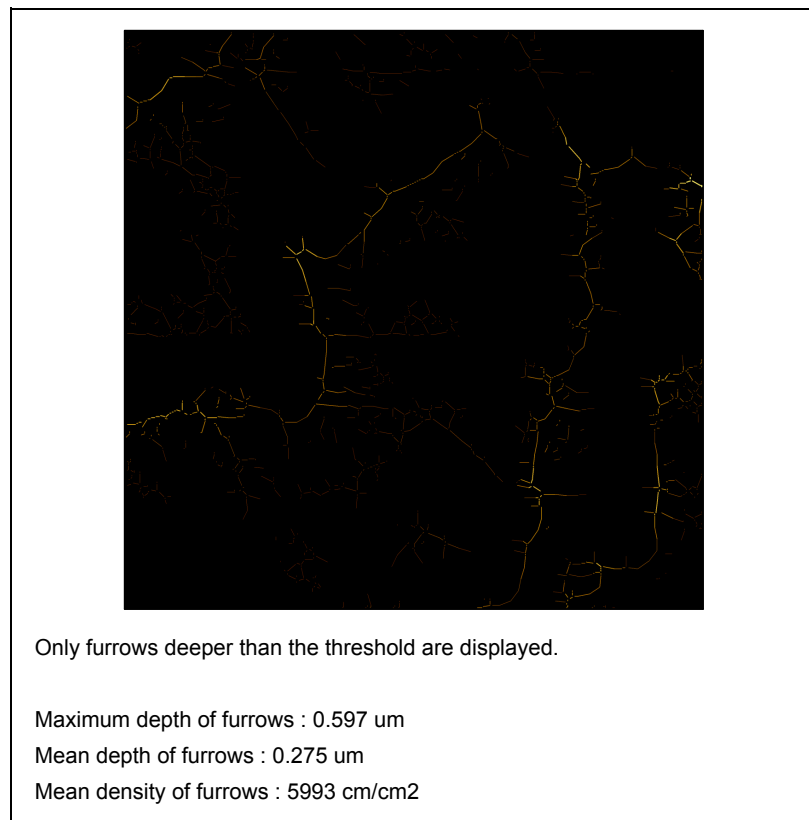
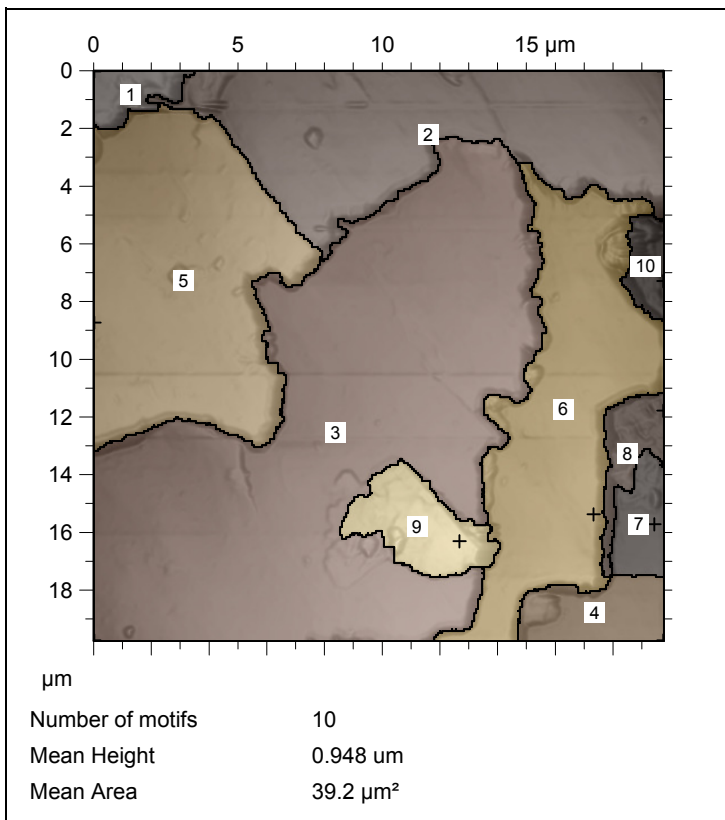


Left: 3D Topography

Scan size: 20 x 20 micron  
 Tip resonance frequency: 150 KHz  
 Scanning speed: 2 l/s  
 Imaging media: air  
 Rendering method: Pseudo Photo

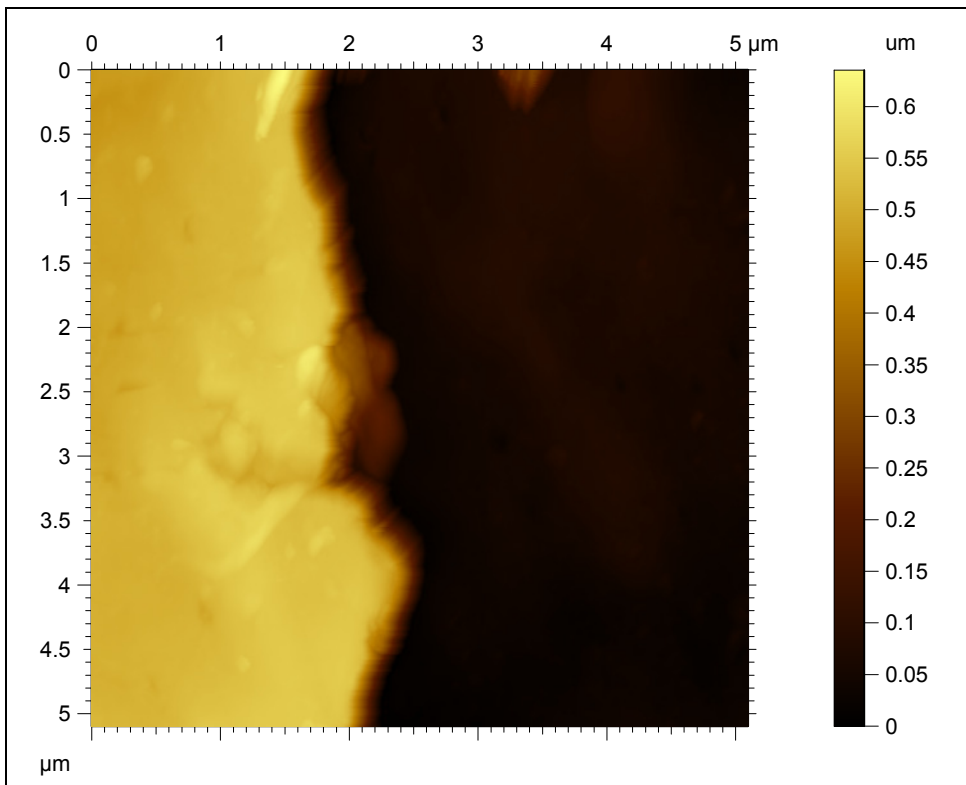
Below left: Motif analysis for patterns using shape detection

Below right: Micro valley detection analysis



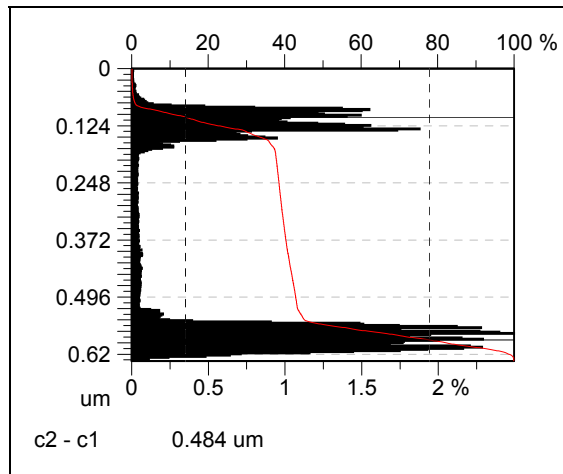
**For demonstration purposes only!**

# AC Mode Topographic analysis of hair sample (zoom)

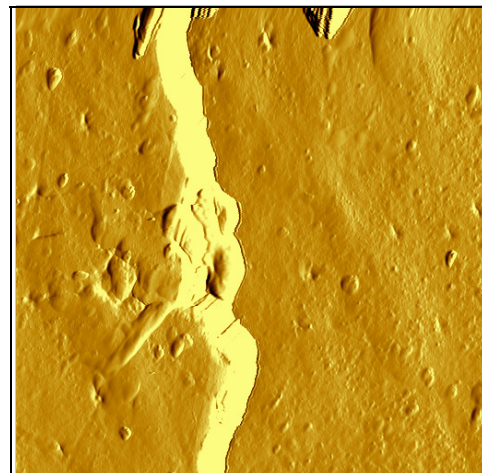
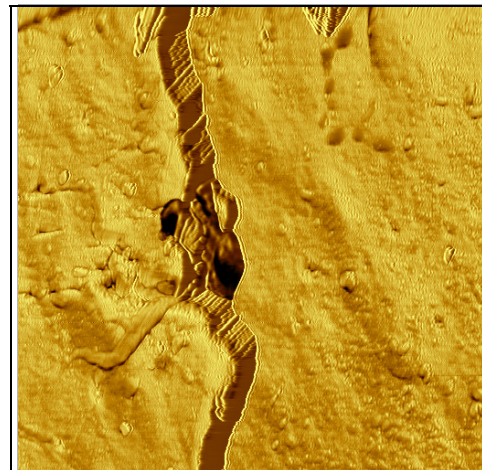
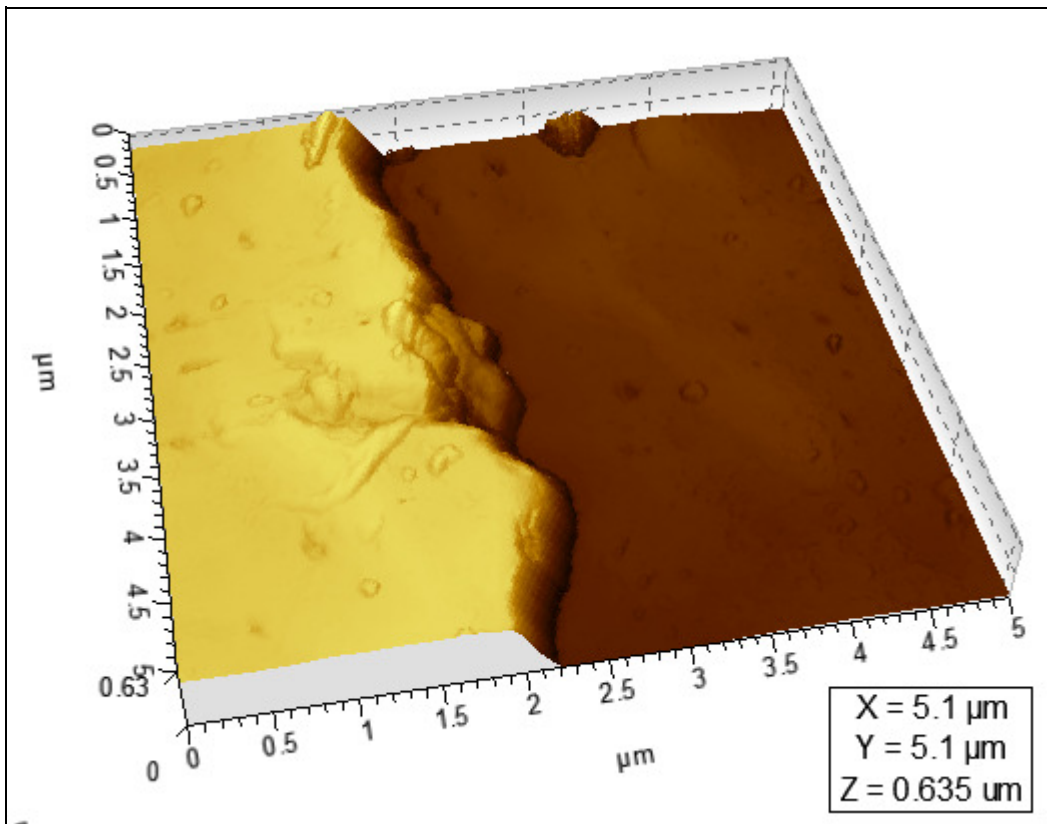


Left: Topography Image

Scan size: 5 x 5 micron  
Tip resonance frequency: 150 KHz  
Scanning speed: 2 l/s  
Imaging media: air  
Below: Histogram analysis

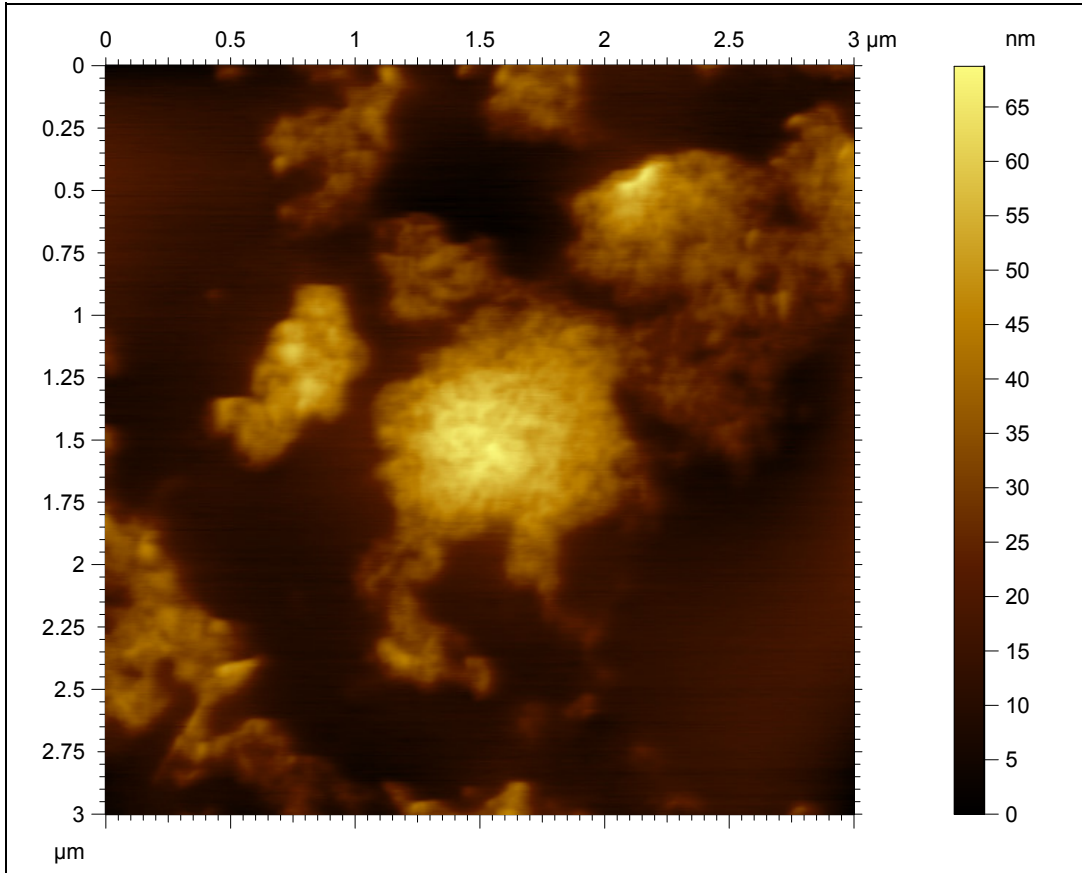


Below: 3D rendering of topography  
Right: phase (right upper) and amplitude (right below) images



For demonstration purposes only!

# AC Mode Imaging of ink Sample



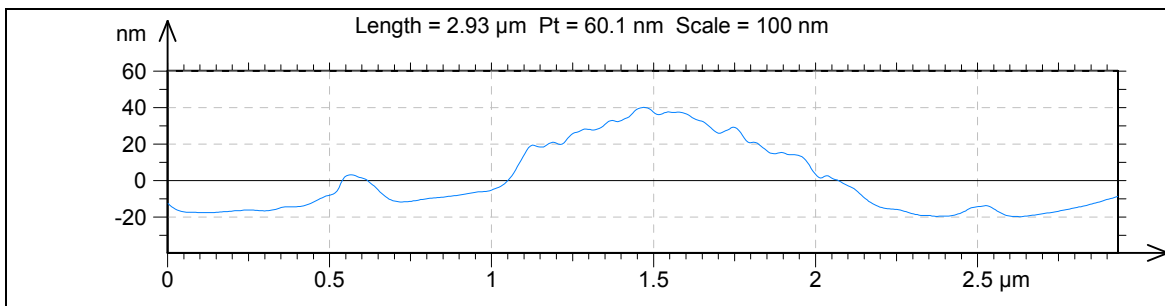
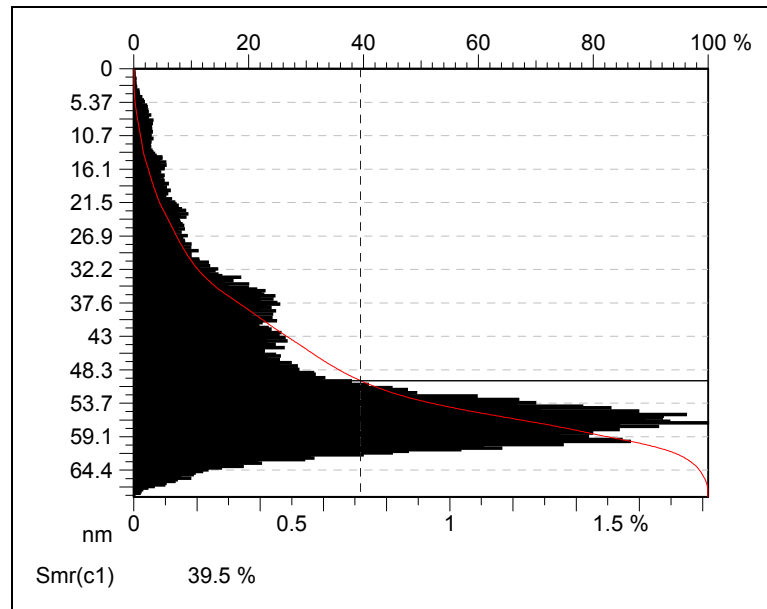
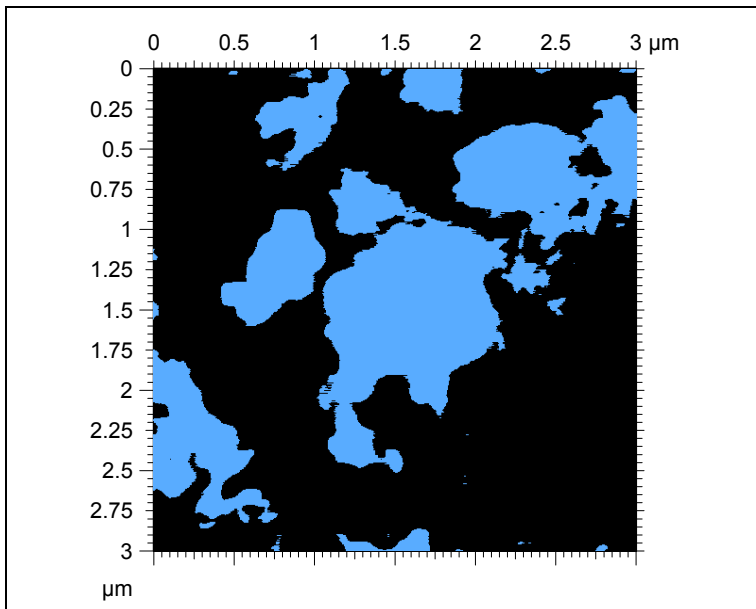
**Left: topography image**

**Scan size: 3 x 3 micron**  
**Tip resonance: 300KHz**  
**Scanning speed: 2.5 l/s**

**Below: Coverage analysis**

**Below left: binary graph of the covered area**

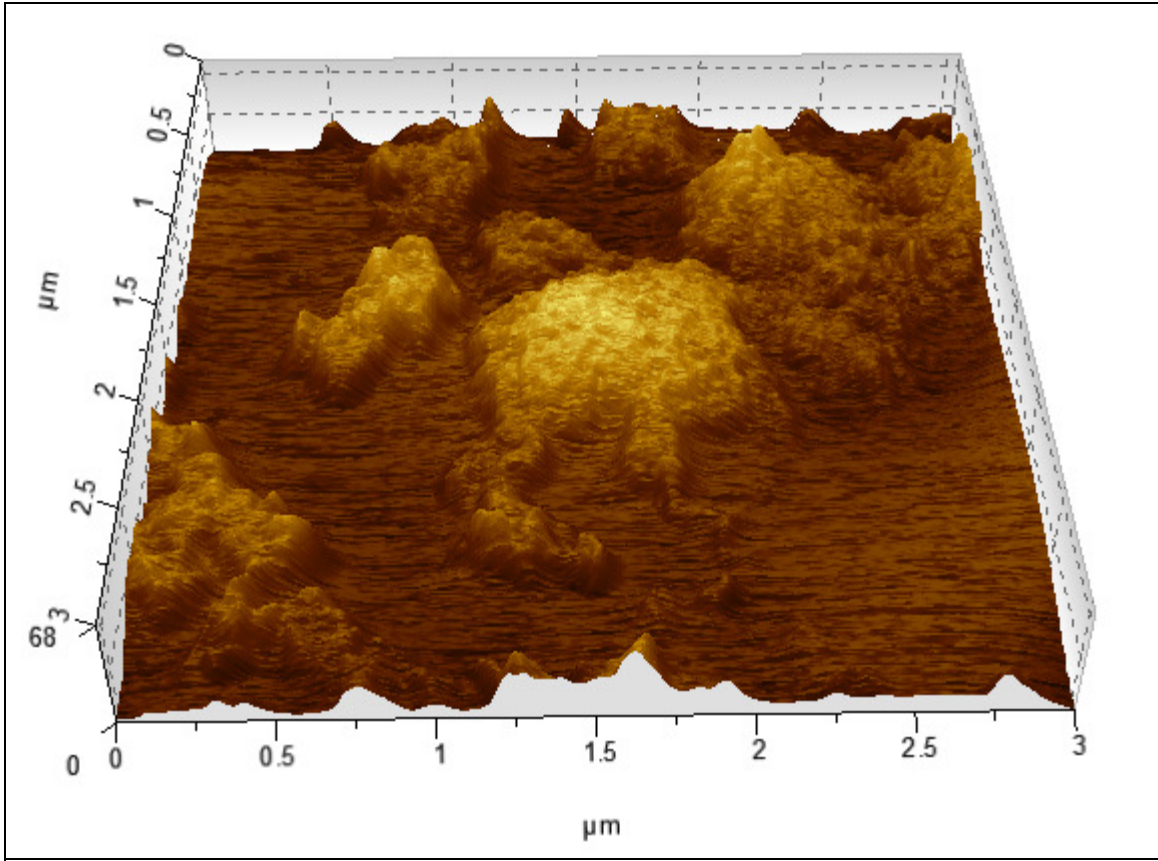
**Below right: histogram coverage analysis**



**Profile analysis**

**For demonstration purposes only!**

# AC Mode Imaging of ink Sample

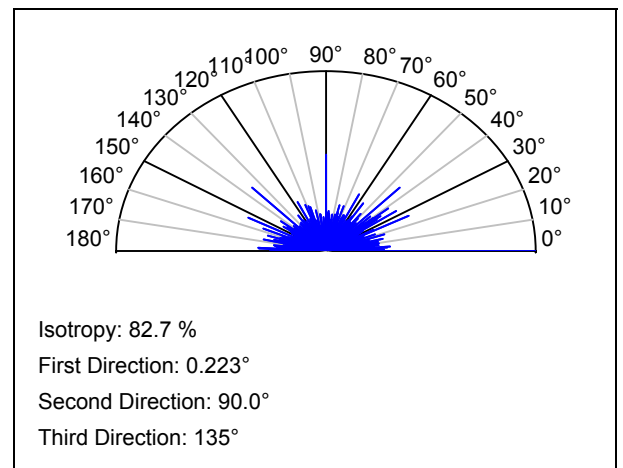
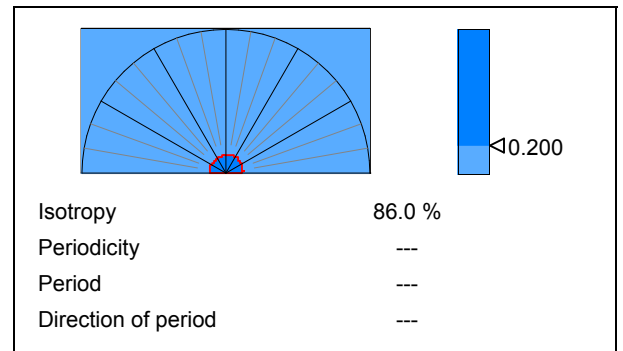
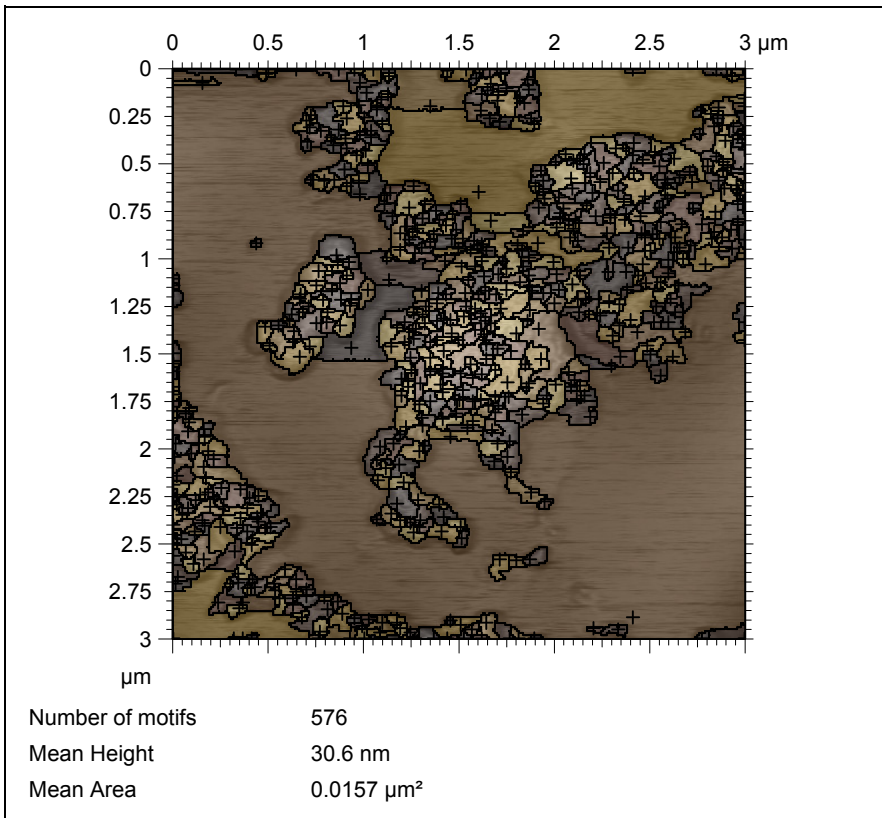


Left: topography 3D

Scan size: 3 x 3  
micron  
Tip resonance:  
300KHz  
Scanning speed: 2.5  
l/s

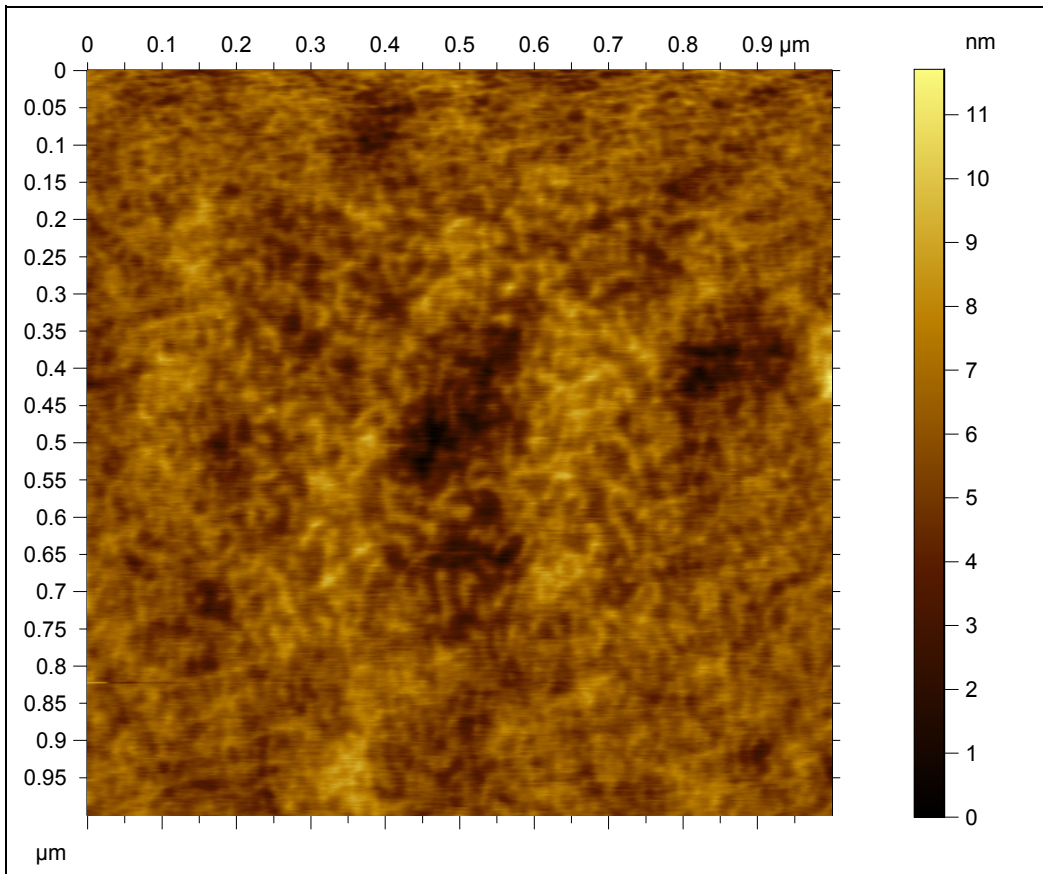
Below left: Motif  
analysis detect grain  
shape

Below right: Texture  
isotope and texture  
direnction analysis



**For demonstration purposes only!**

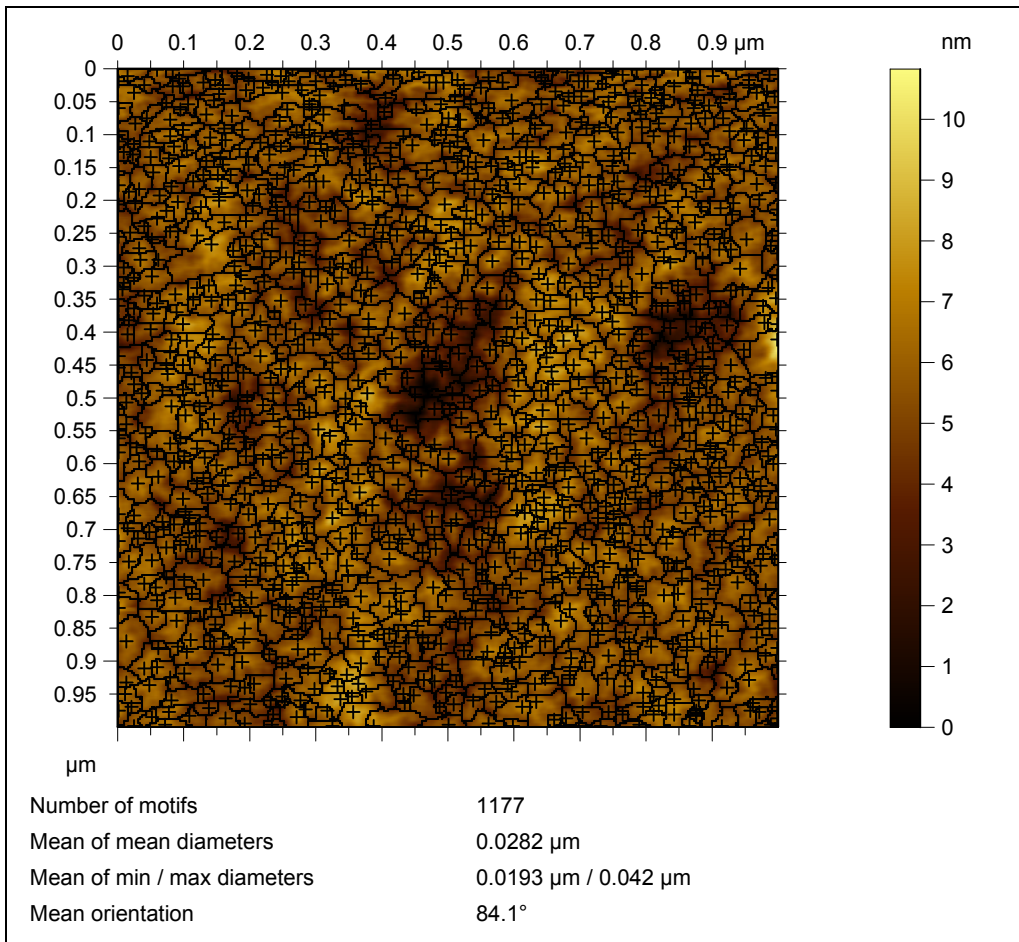
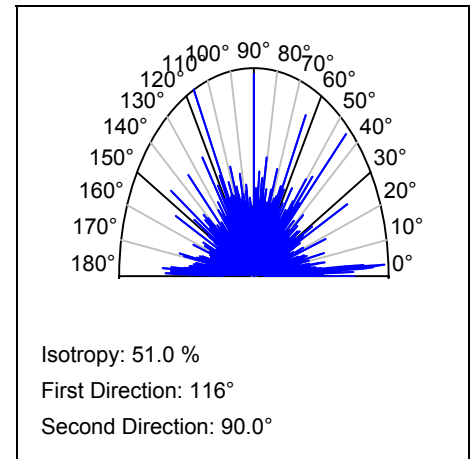
# AC Mode Imaging of Microtoned Sample



## Left: Topography Image

Scan size: 20 x 20 micron  
 Tip resonance frequency: 150 KHz  
 Scanning speed: 2 l/s  
 Imaging media: air

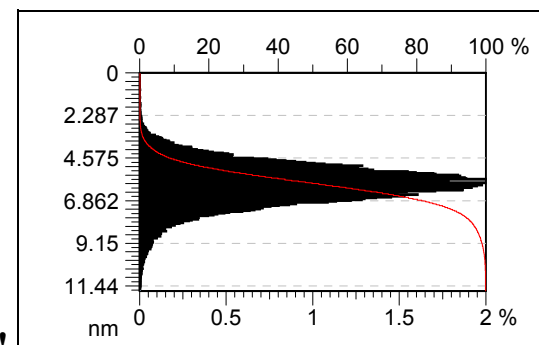
## Below: Texture orientation analysis



## Left: Motif analysis, particle statistics

Below I: roughness statistics  
 Below II: surface height histogram

ISO 25178		
Height Parameters		
Sq	1.12	nm
Ssk	-0.379	
Sp	6.00	nm
Sv	5.71	nm
Sz	11.7	nm
Sa	0.852	nm



For demonstration purposes only!