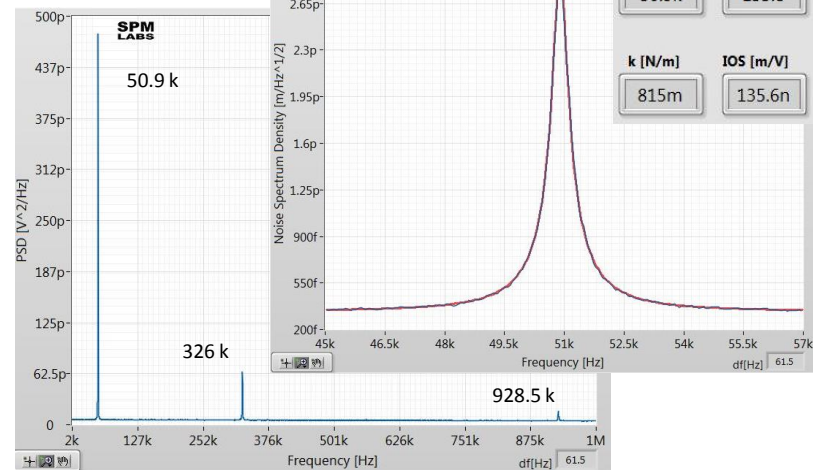
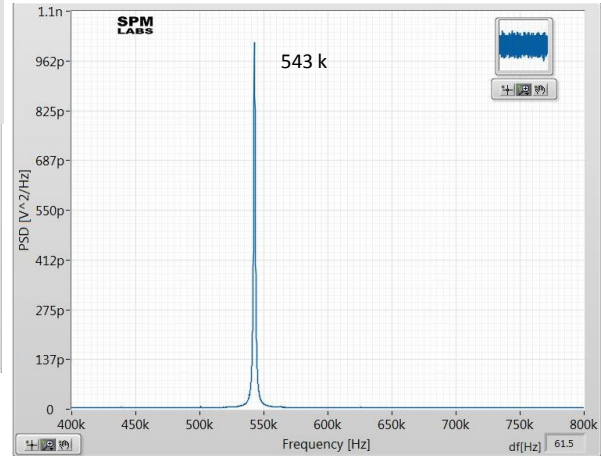


*Thermal Tune Data obtained with DCC accessory*

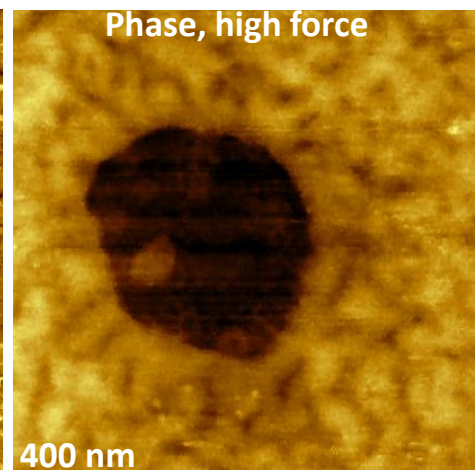
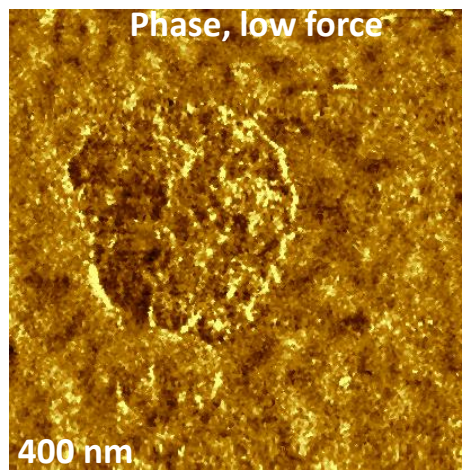
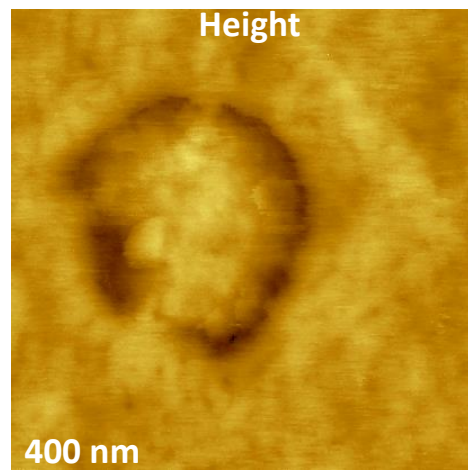
**Normal Deflection**



**Lateral Deflection**



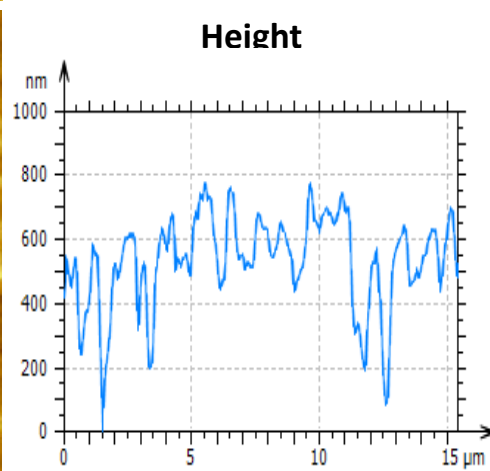
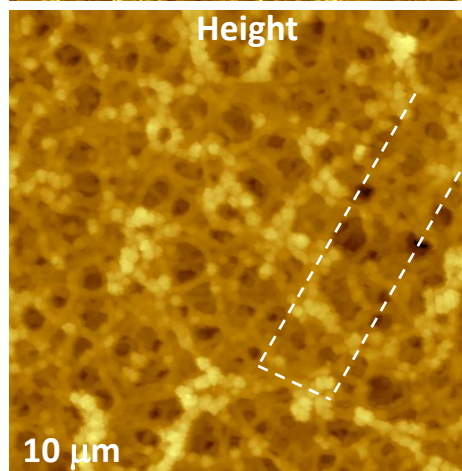
The 190/35/1 Si probe can be used for AM-PI imaging of soft samples with elastic modulus <100 MPa. Such an application is illustrated by images of a polymer blend of ethylene-octene copolymer with density 0.86 g/cm<sup>3</sup> and polybutadiene – PE86/PB. With the increase of tip-force PD domain inside PE86 matrix exhibits a much darker phase contrast. The phase variation in the matrix are related to a small lamellae population common to PE86. The capability of Si tips to profile surfaces with corrugations up to 1 μm is shown in this height image and its profile recorded on the surface of a nitrocellulose membrane.



Polymer blend PE86/PB

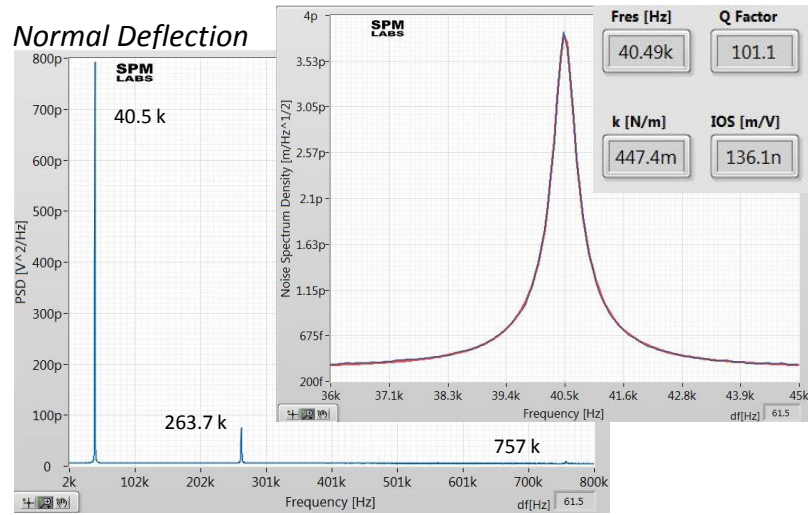


Nitrocellulose membrane

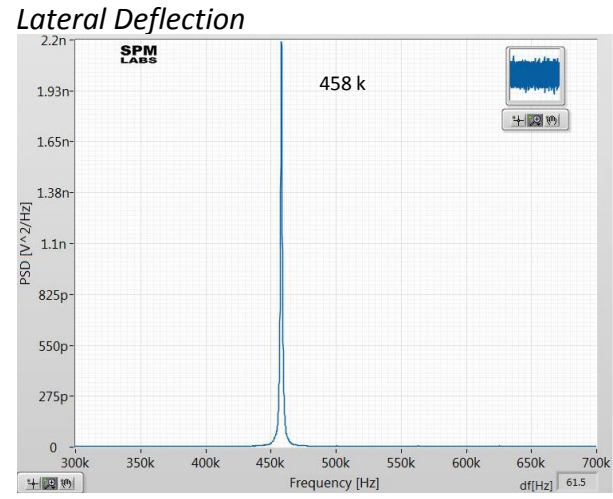


Thermal Tune Data obtained with DCC accessory

## Normal Deflection



## Lateral Deflection



Is this redundant ?