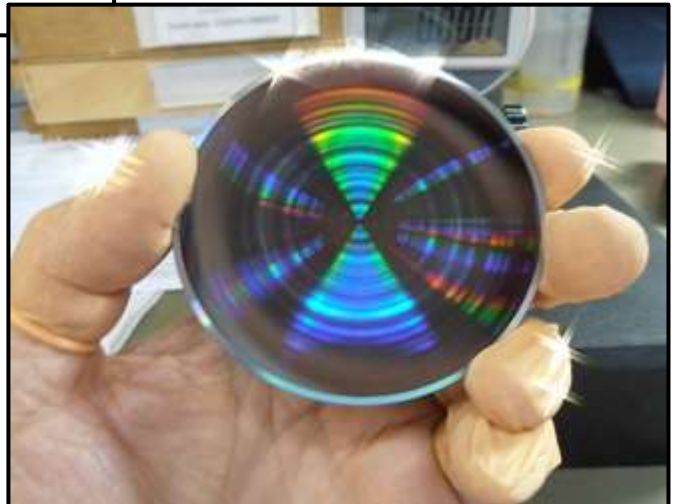
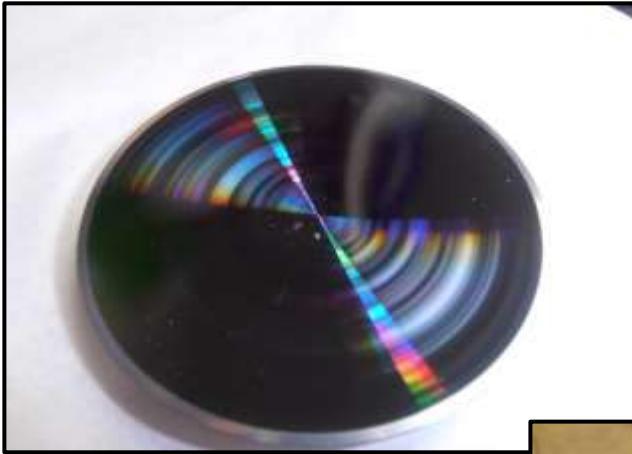
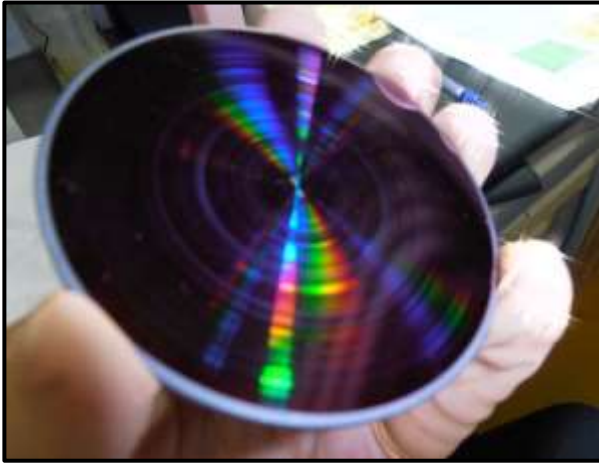
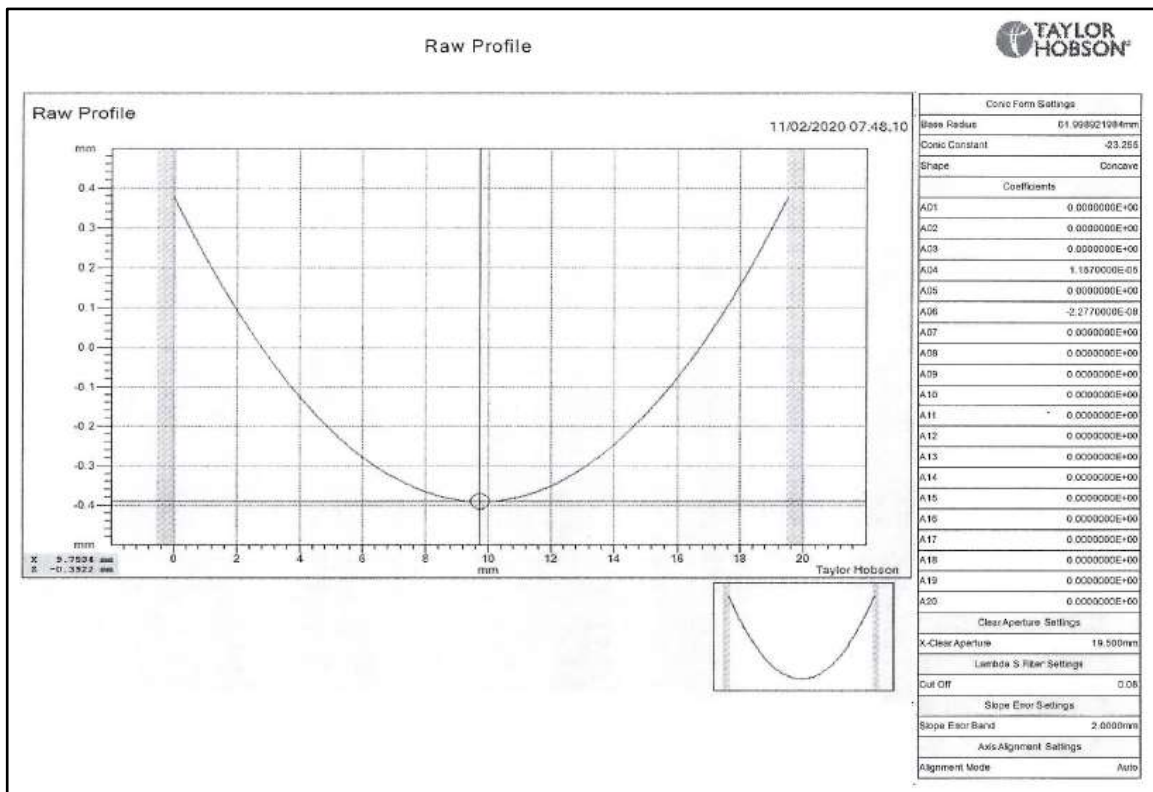


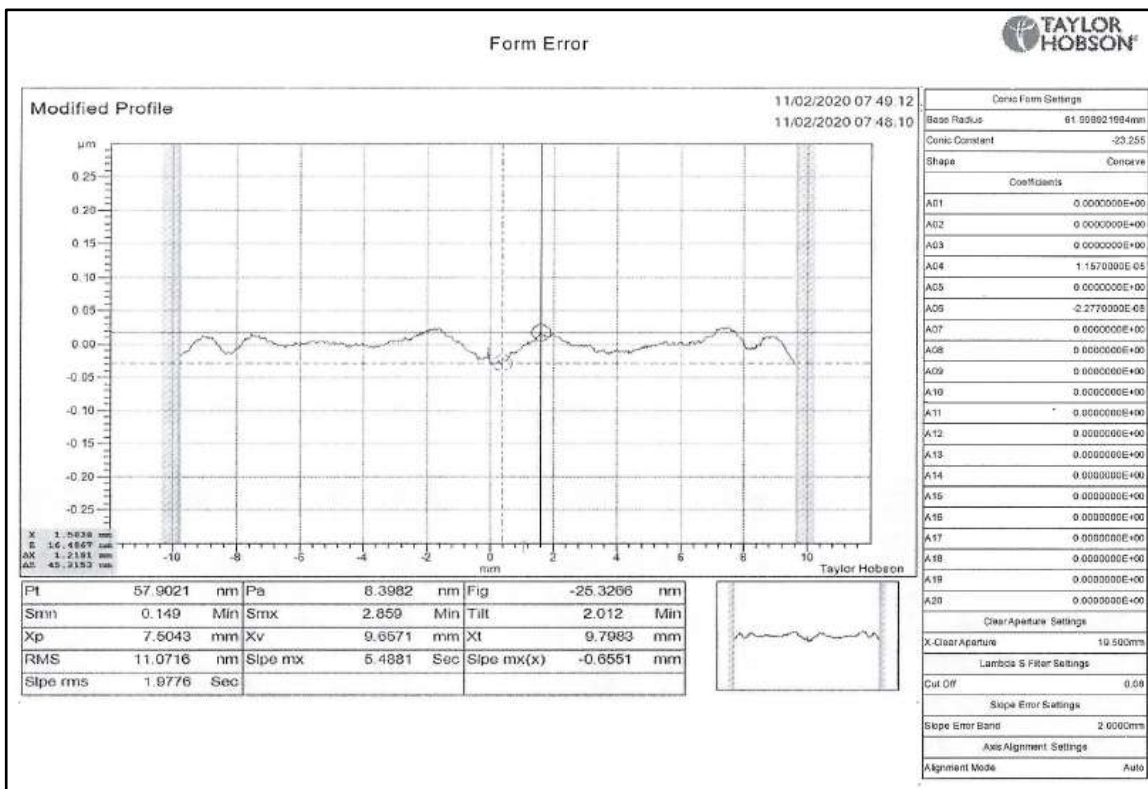
Diamond Turning (DT) or Single Point Diamond Turning (SPDT)
Aspheric Surfaces



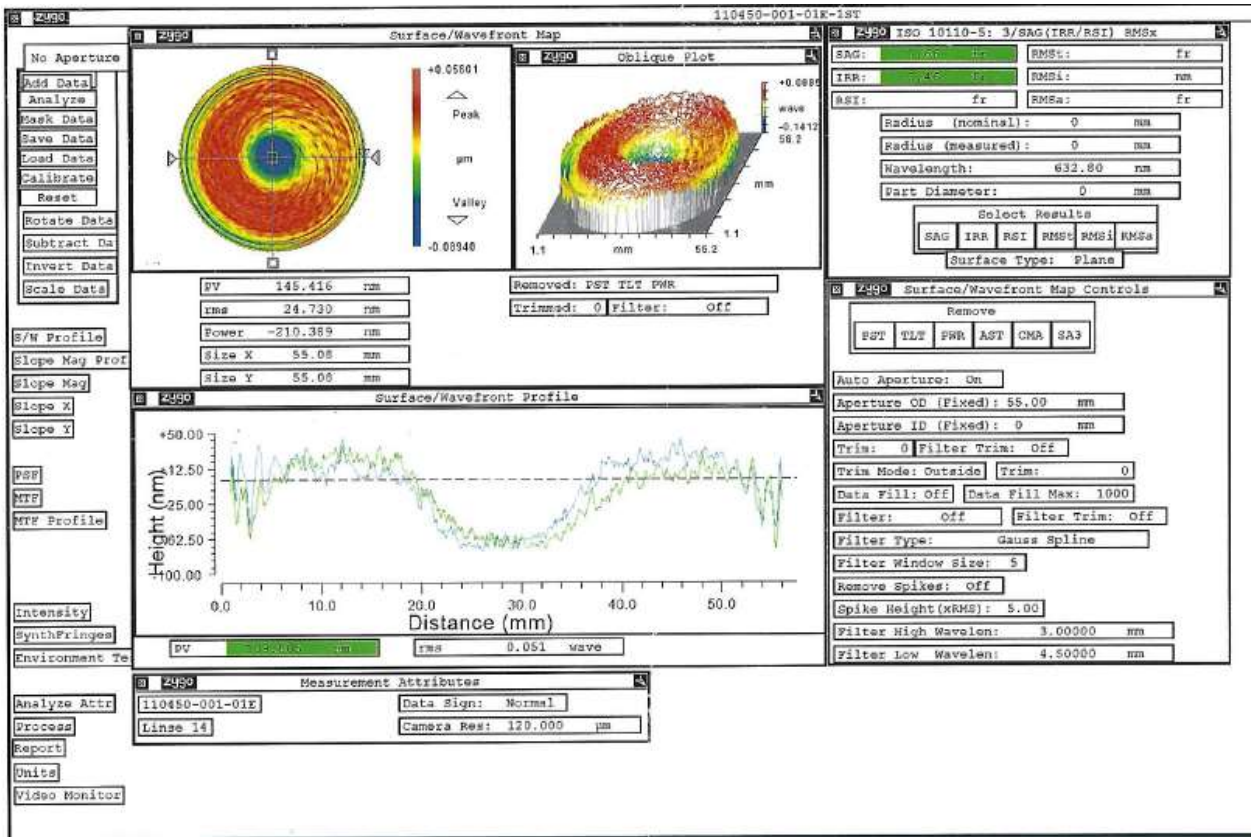
Aspheric surfaces with DT (Diamond Turning) marks which are typical for the D.T. process and can be seen sometimes with a naked eye. The amount of the required maximum roughness should be applied to the requirements of the aspheric surface. The amount of the roughness depends on the DT process parameters, raw material and drawing or specification requirements.



A scan example of Raw Profile aspheric concave surface. In some cases, depends on the contour of the surface we can get the Sagitta value of the surface. The measurement made by Taylor-Hobson contact Profilometer.



A scan example of Modified Profile aspheric concave surface with the scan results. The measurement made by contact Taylor-Hobson Profilometer.



Example of interferogram (Surface/Wavefront Map and Profile) of aspheric surface with the scan results made by not contact Zygo VeriFire Asphere.

Important note

Each equipment for measuring profile of aspheric surfaces has its advantages and limitations. So, it's the user's obligation to choose the best equipment for his needs.

