

\*\*\*\*\* Summary for 'm4U-240701-f01-01-01-01' \*\*\*\*\*

28-Jul-2024 11:38:55

Energy: ### 3.0 GeV

Circumference: ## 528.0 m

Full tunes H/V: ## 44.22 / 12.37

Momentum Compaction Factor: # 1.57e-04

Chromaticity H: ##-0.03

Chromaticity V: ##-0.02

Radiation Loss: ## 550.5 keV

Natural Energy Spread: # 0.13 %

Natural Emittance: ## 139.5 pmrad

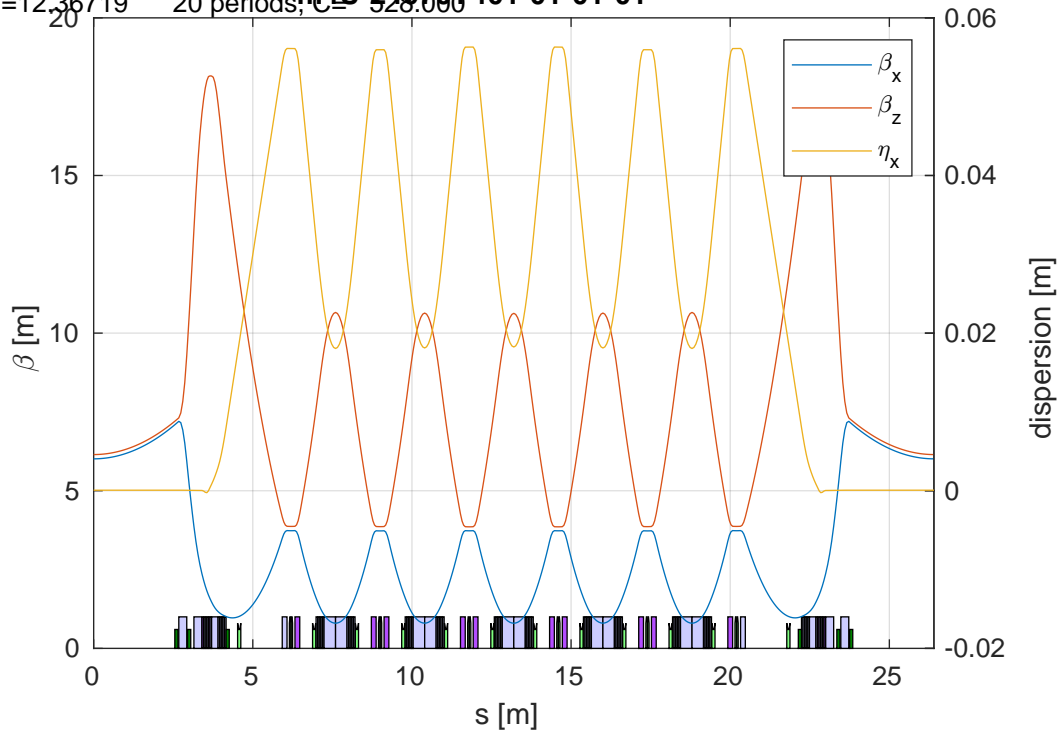
RF Voltage: # 1.8 MV

Achromat natural chromaticities: H/V## -2.50 / -1.48

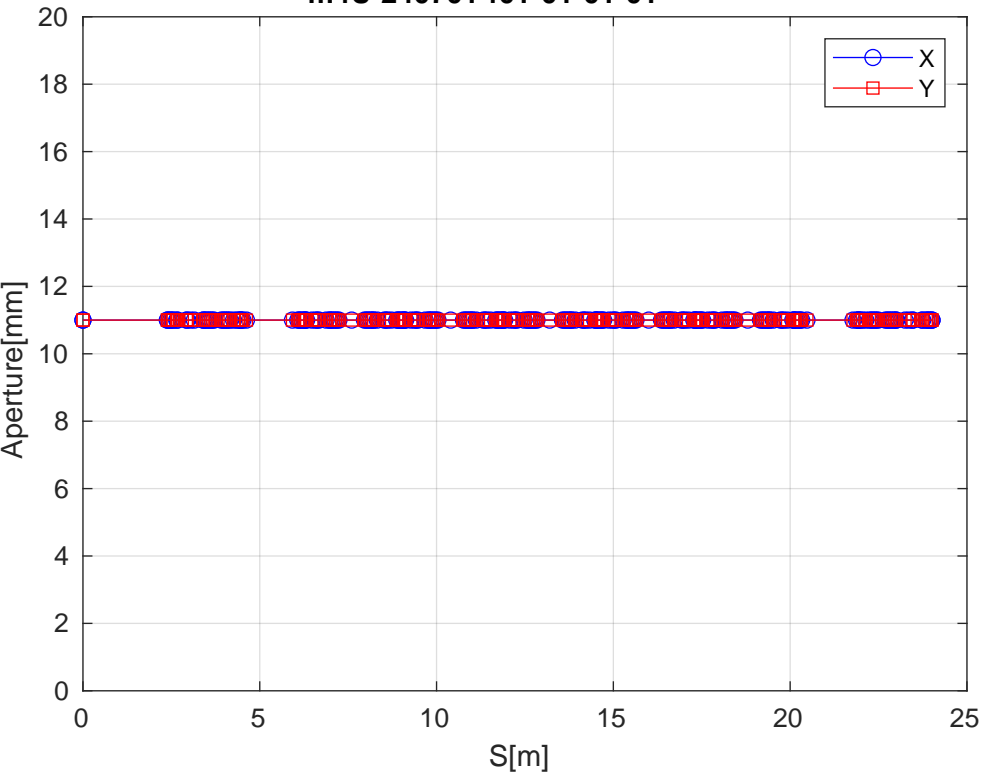
Achromat tunes H/V: ## 2.21 / 0.62

$\nu_x = 44.22692$  $\delta p/p = 0.000$  $\nu_z = 12.36719$ 20 periods,  $C = 528.000$ 

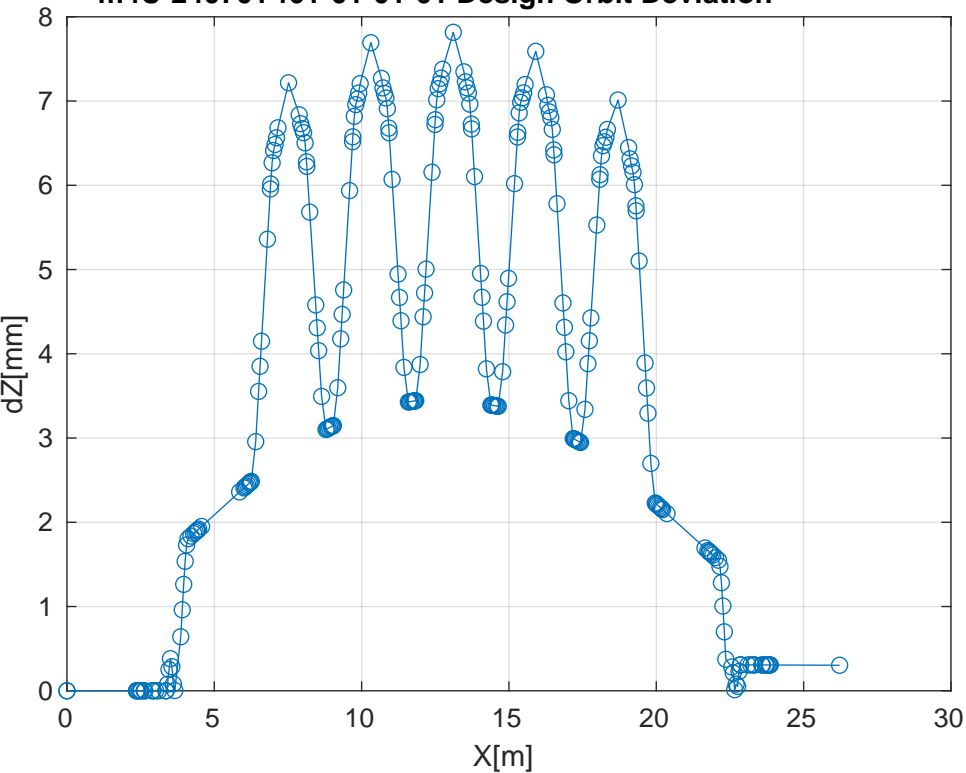
m4U-240701-f01-01-01-01



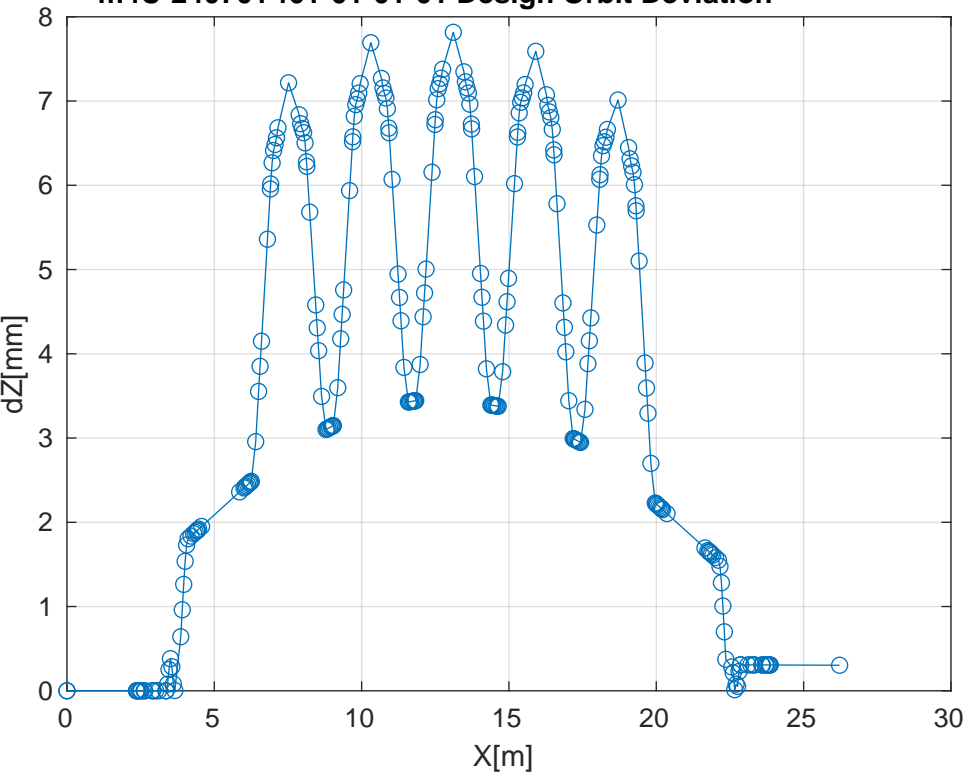
m4U-240701-f01-01-01-01

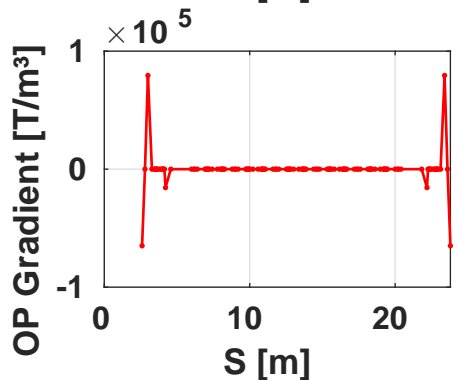
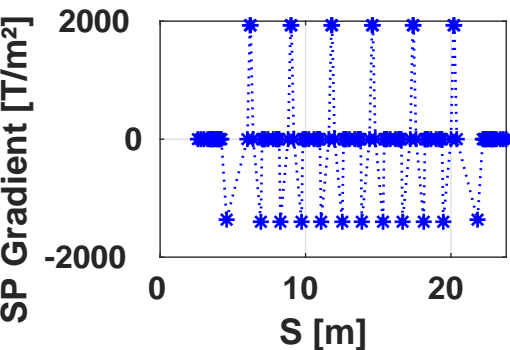
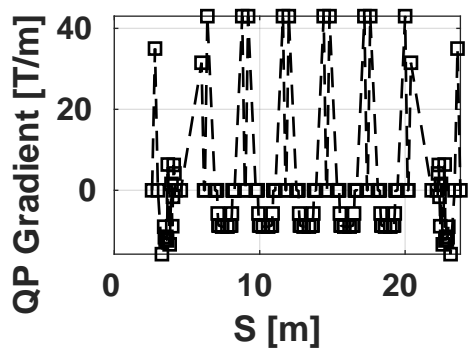
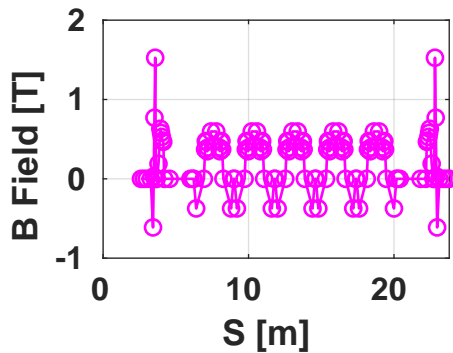


m4U-240701-f01-01-01 Design Orbit Deviation

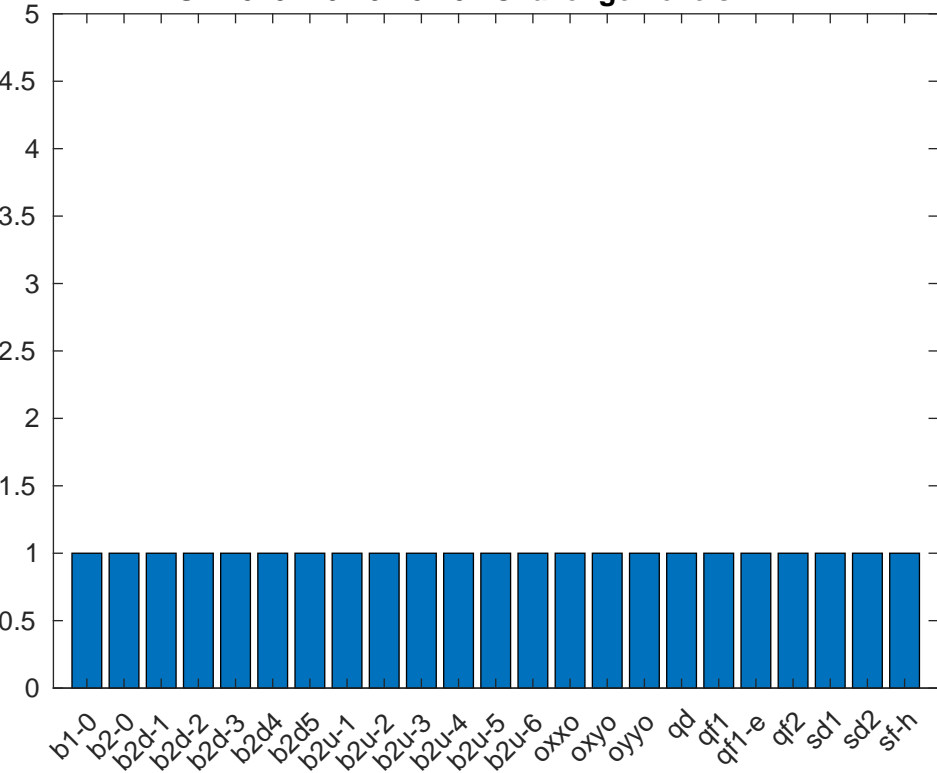


m4U-240701-f01-01-01 Design Orbit Deviation

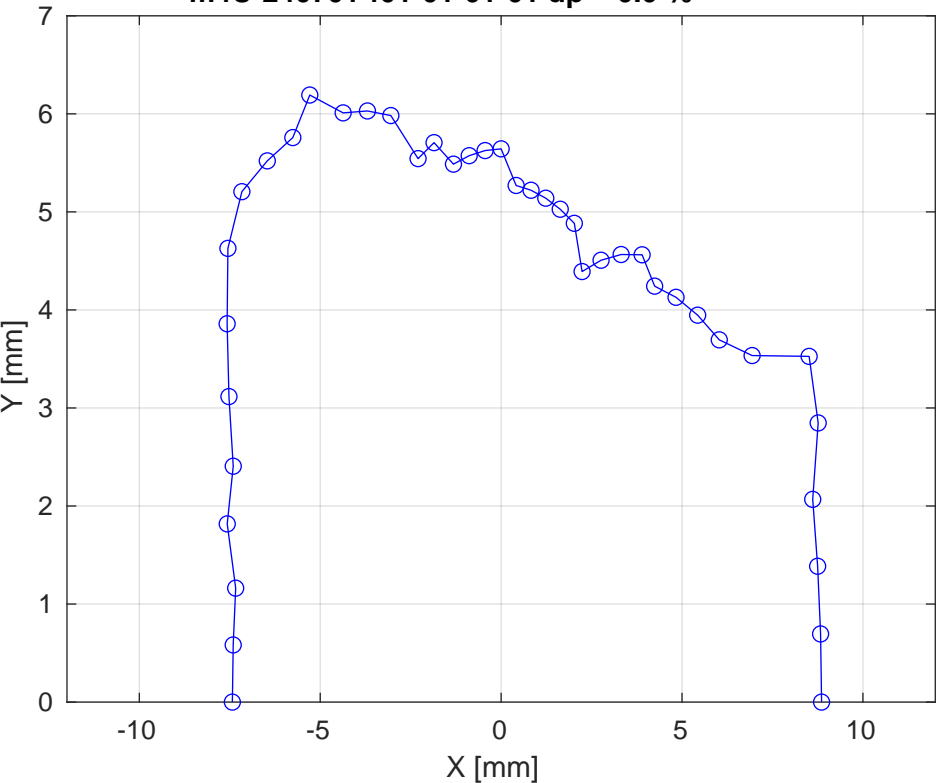




**m4U-240701-f01-01-01-01 Challenge Levels**

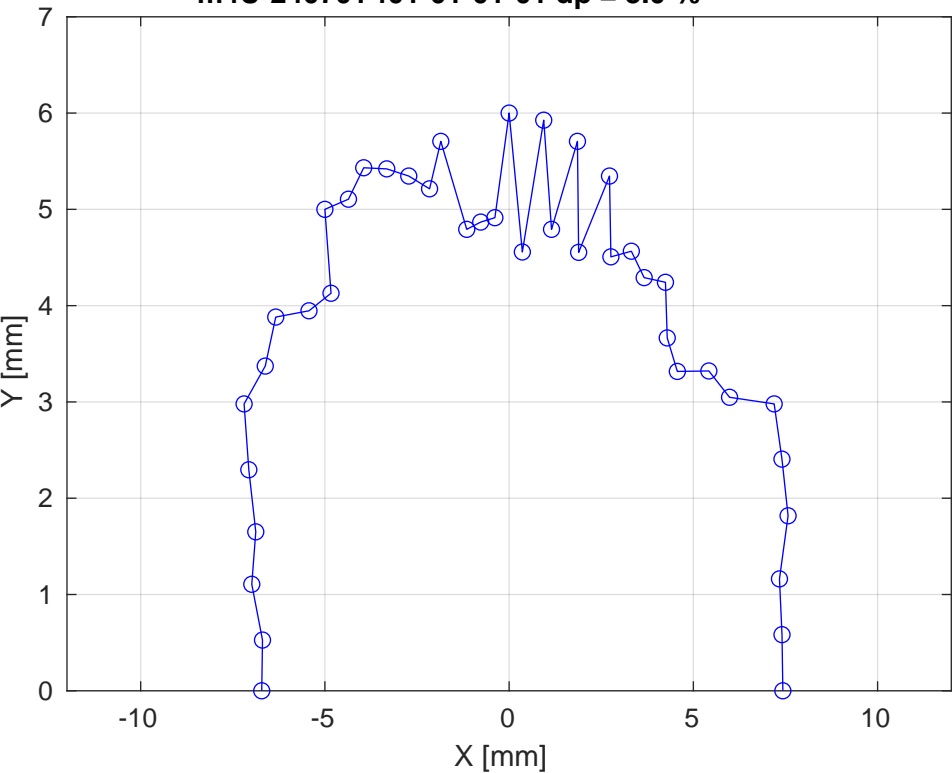


m4U-240701-f01-01-01 dp = 0.0 %

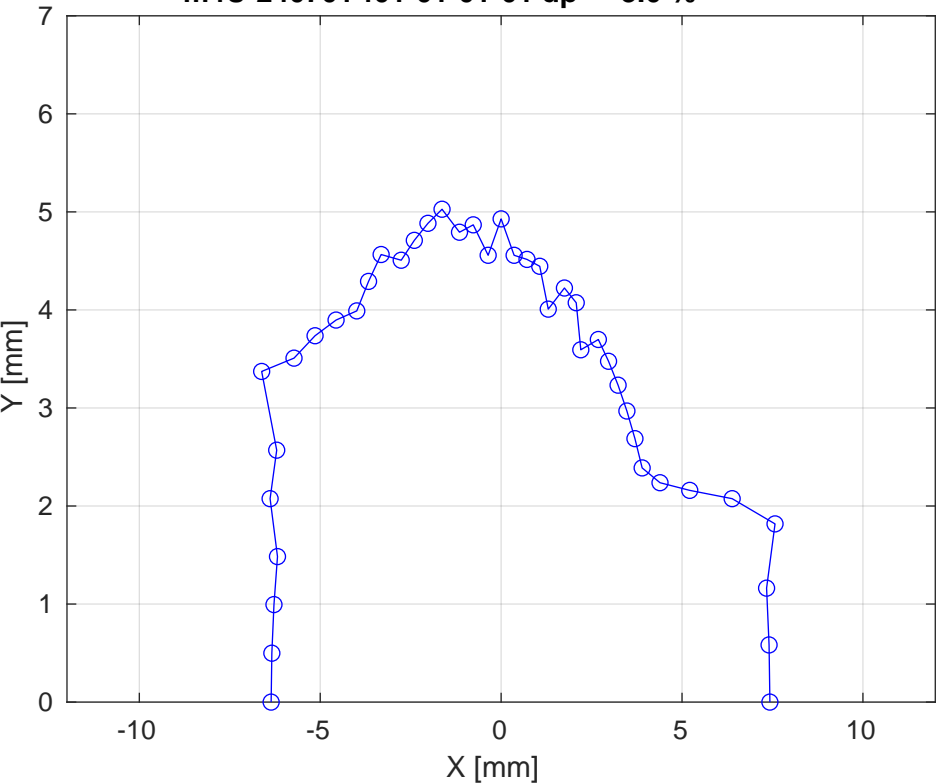




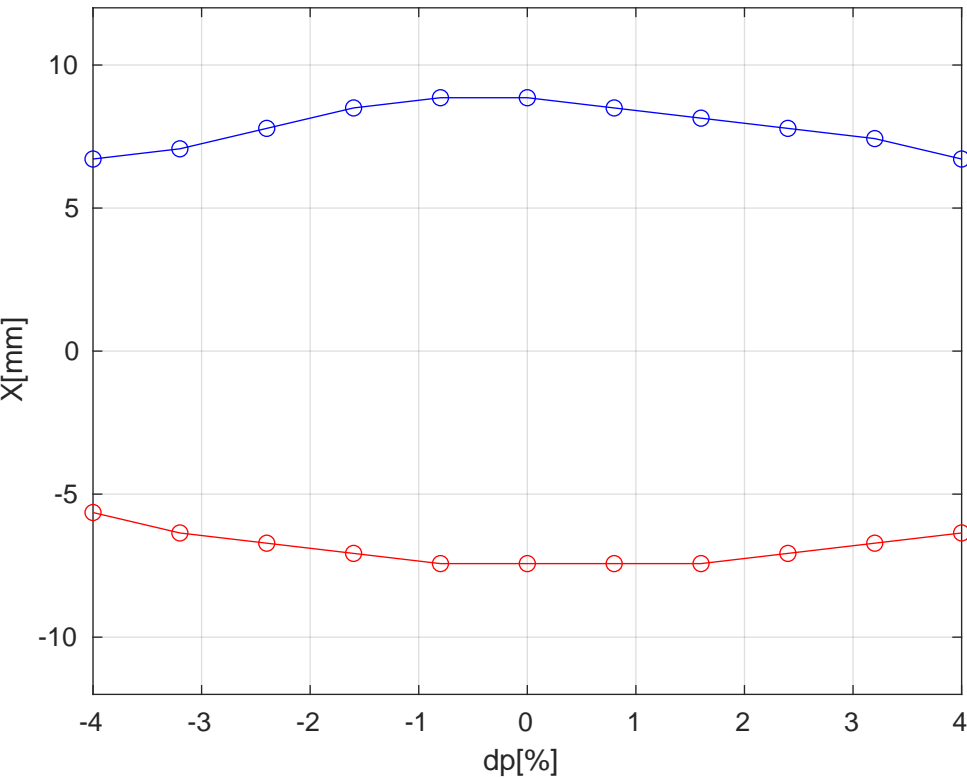
m4U-240701-f01-01-01 dp = 3.0 %



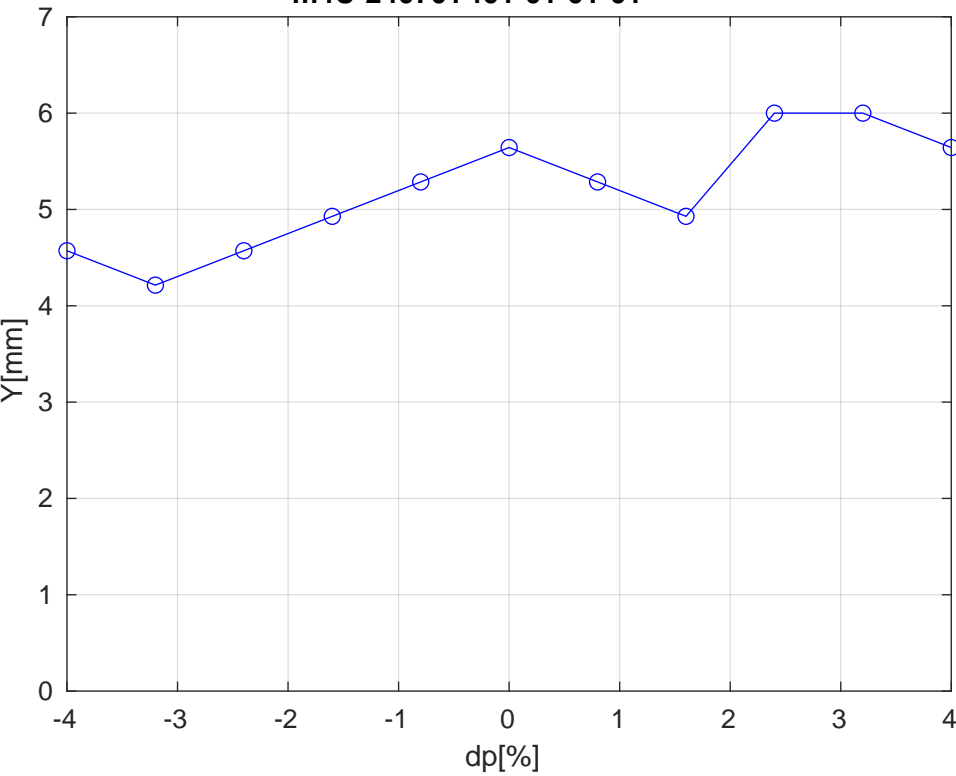
m4U-240701-f01-01-01 dp = -3.0 %



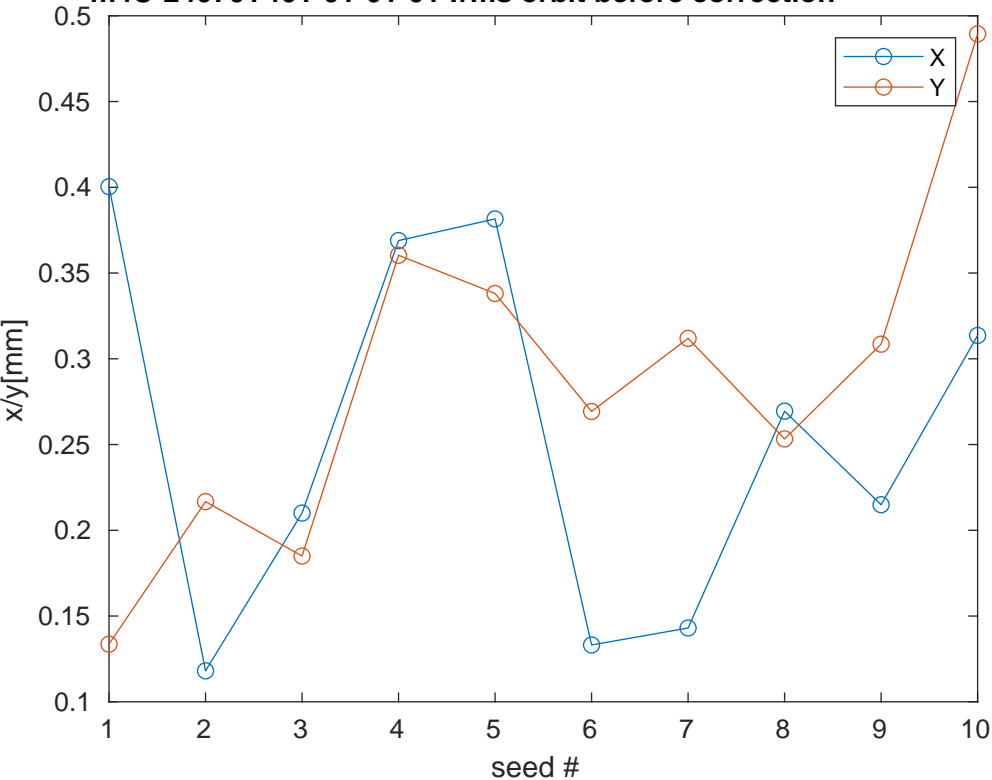
m4U-240701-f01-01-01-01



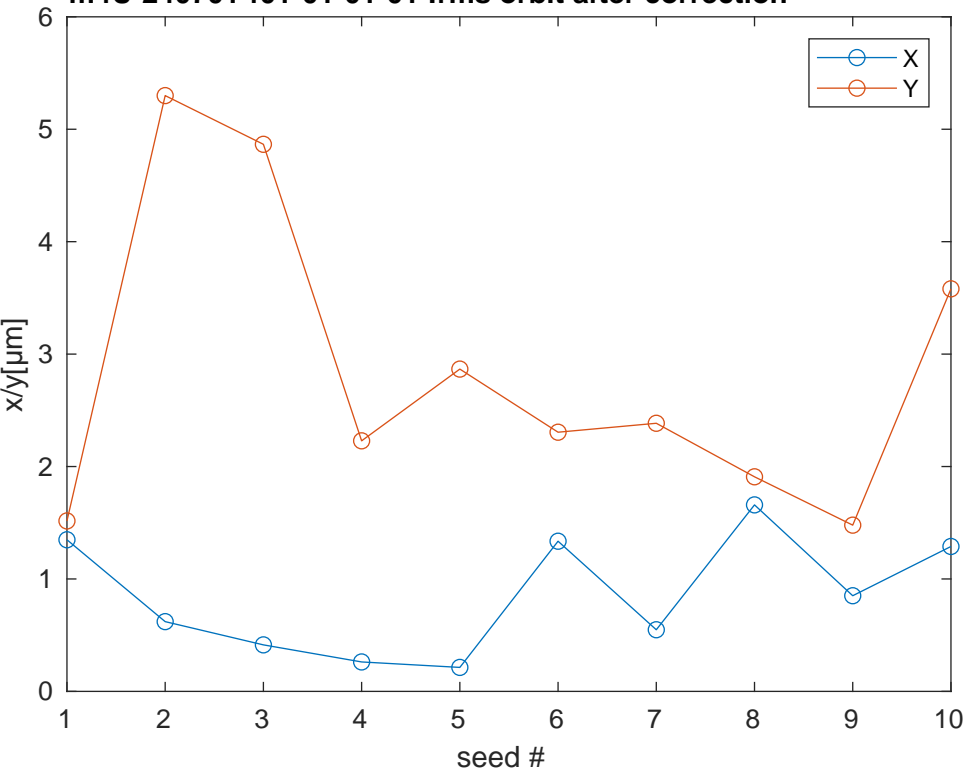
m4U-240701-f01-01-01-01



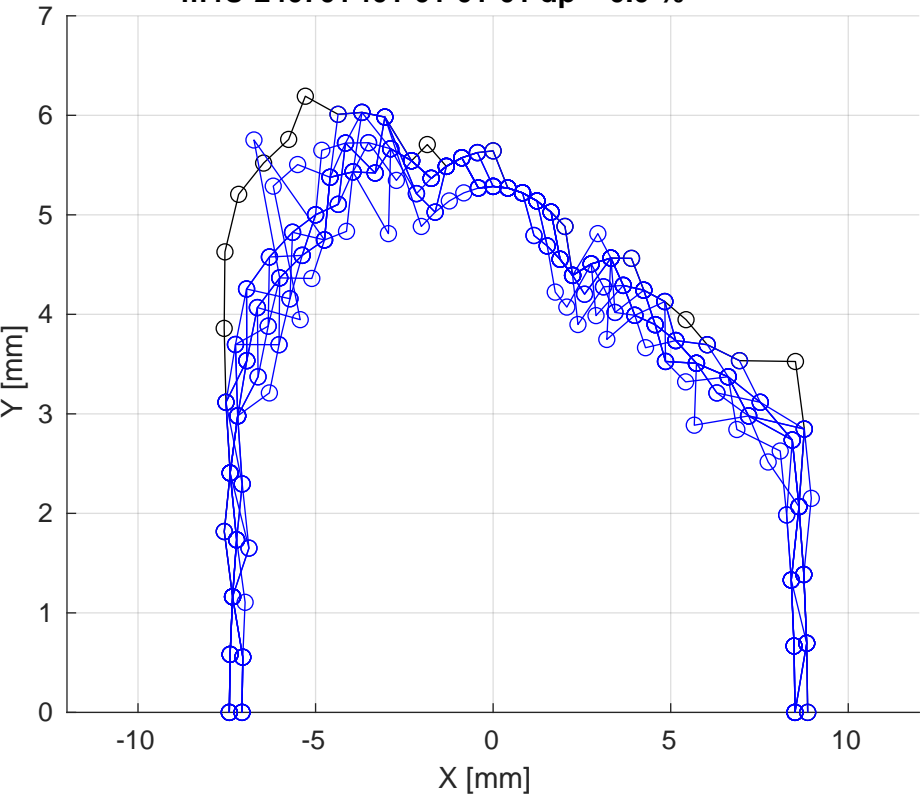
m4U-240701-f01-01-01-01 :rms orbit before correction



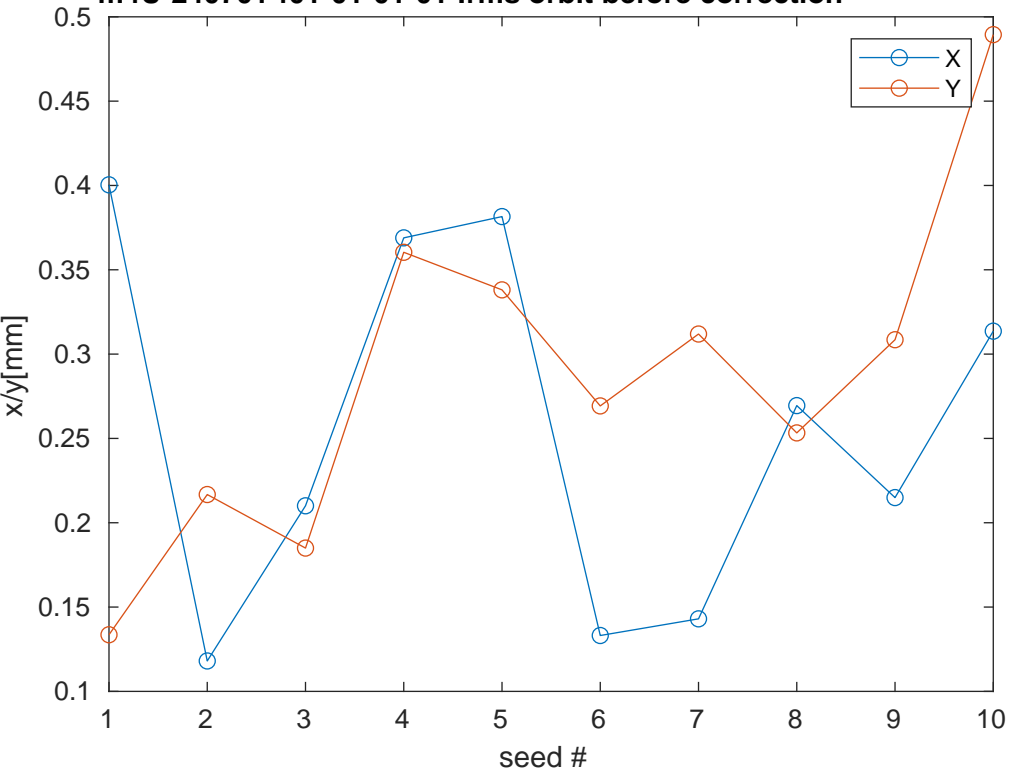
m4U-240701-f01-01-01 :rms orbit after correction



m4U-240701-f01-01-01 dp = 0.0 %

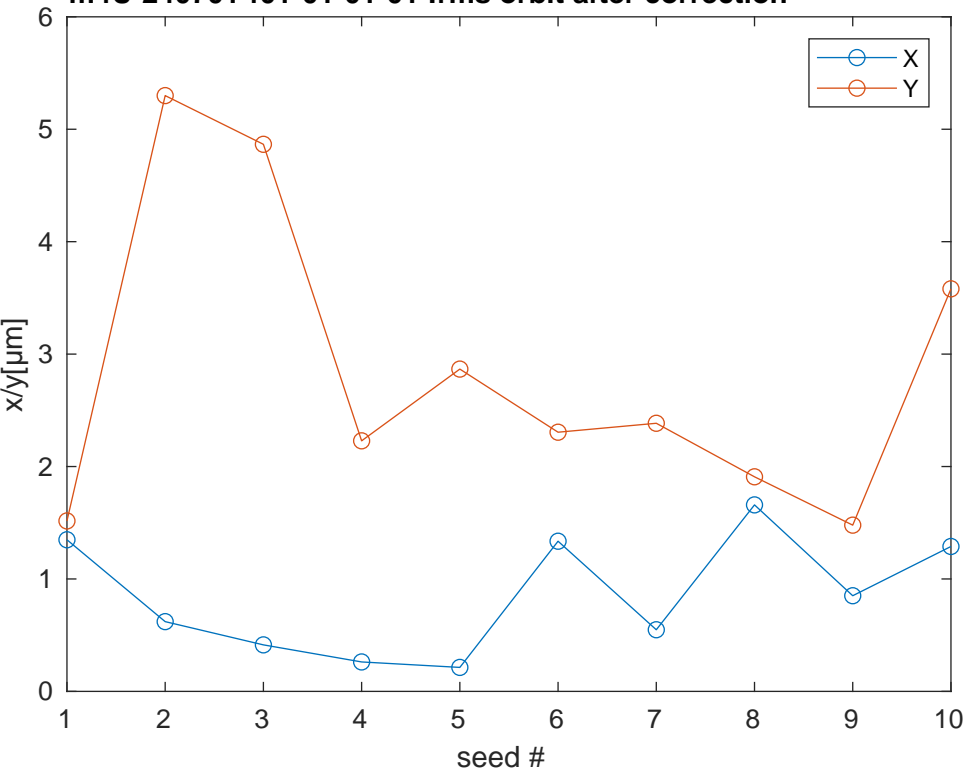


m4U-240701-f01-01-01 :rms orbit before correction

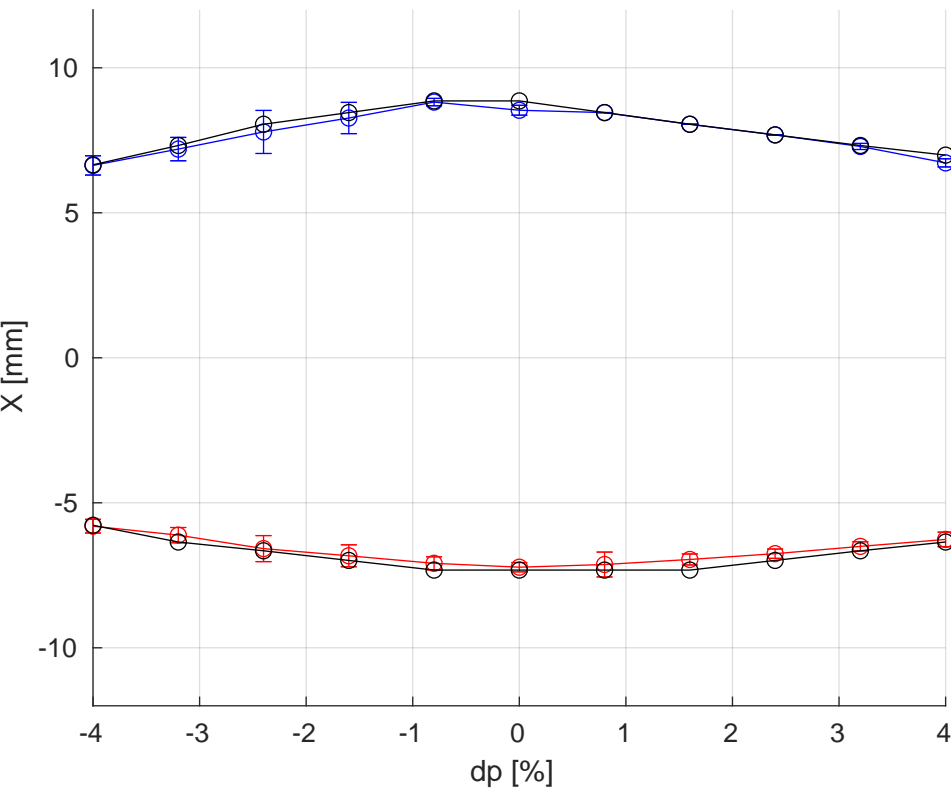




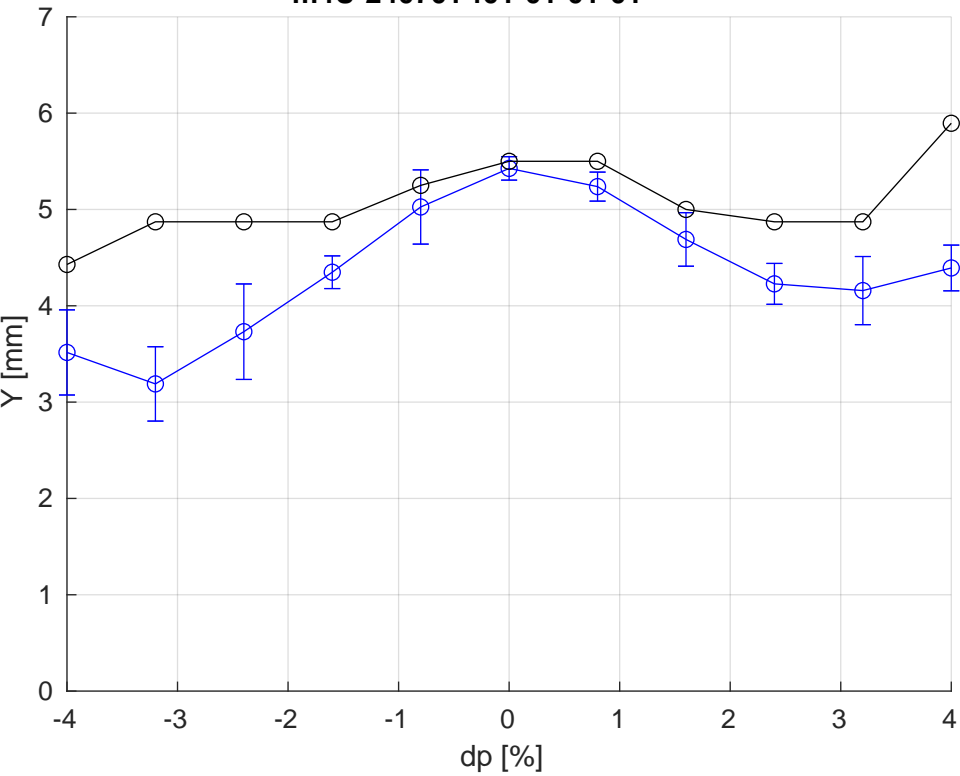
m4U-240701-f01-01-01 :rms orbit after correction



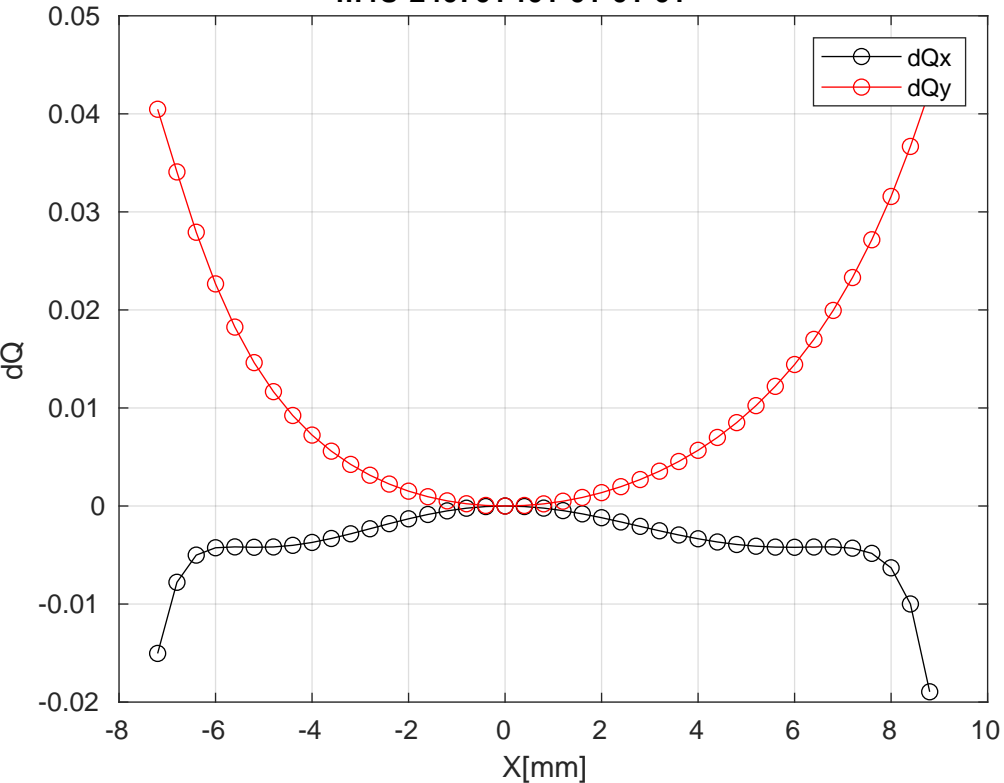
m4U-240701-f01-01-01-01



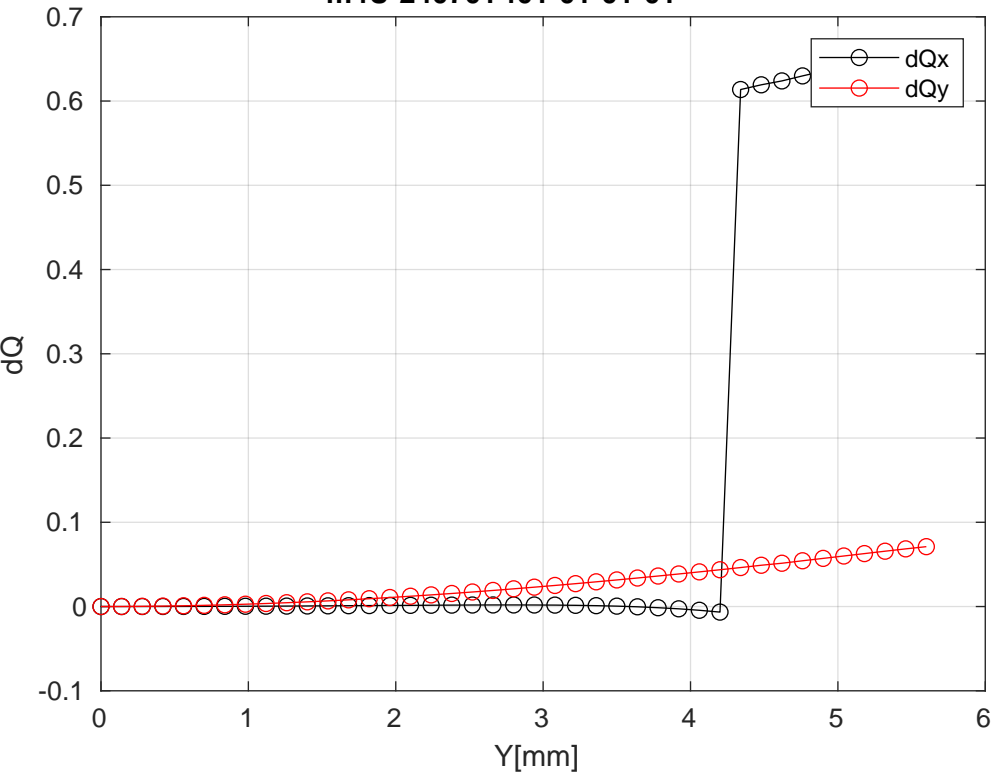
m4U-240701-f01-01-01



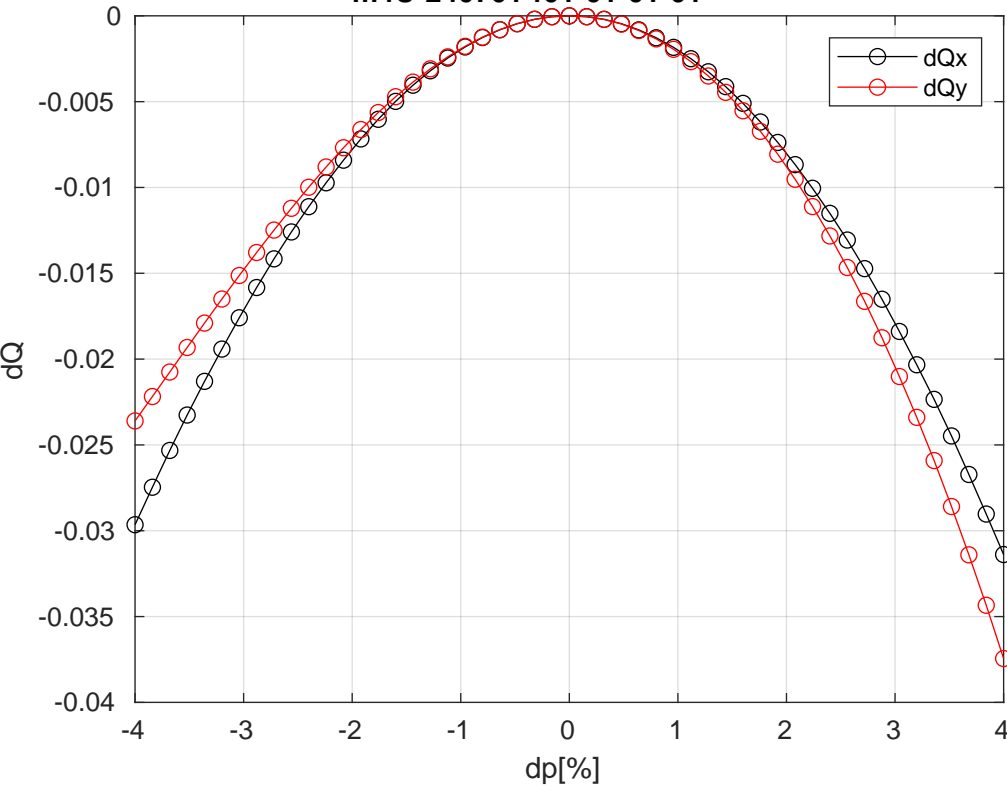
m4U-240701-f01-01-01-01



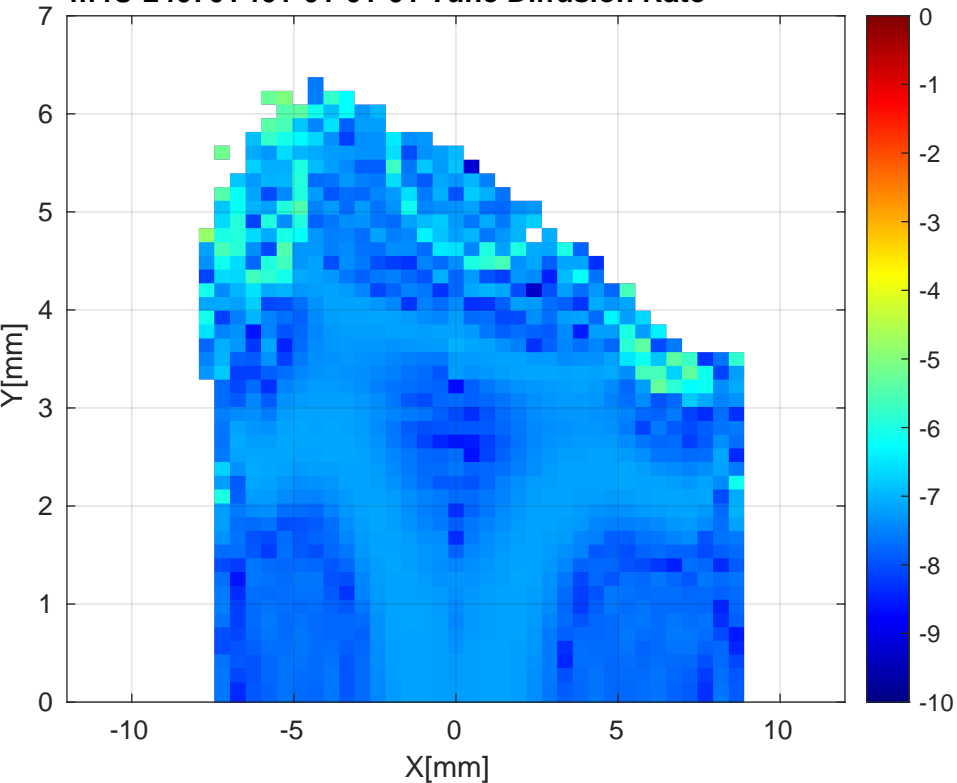
m4U-240701-f01-01-01-01



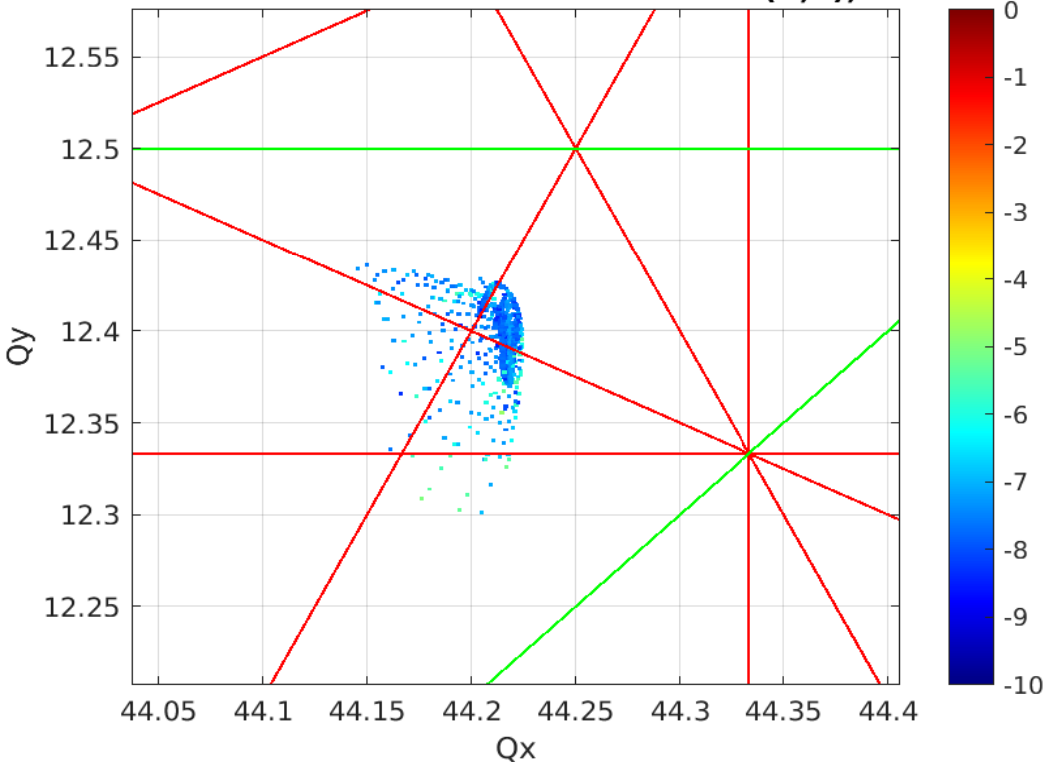
m4U-240701-f01-01-01-01



m4U-240701-f01-01-01 Tune Diffusion Rate

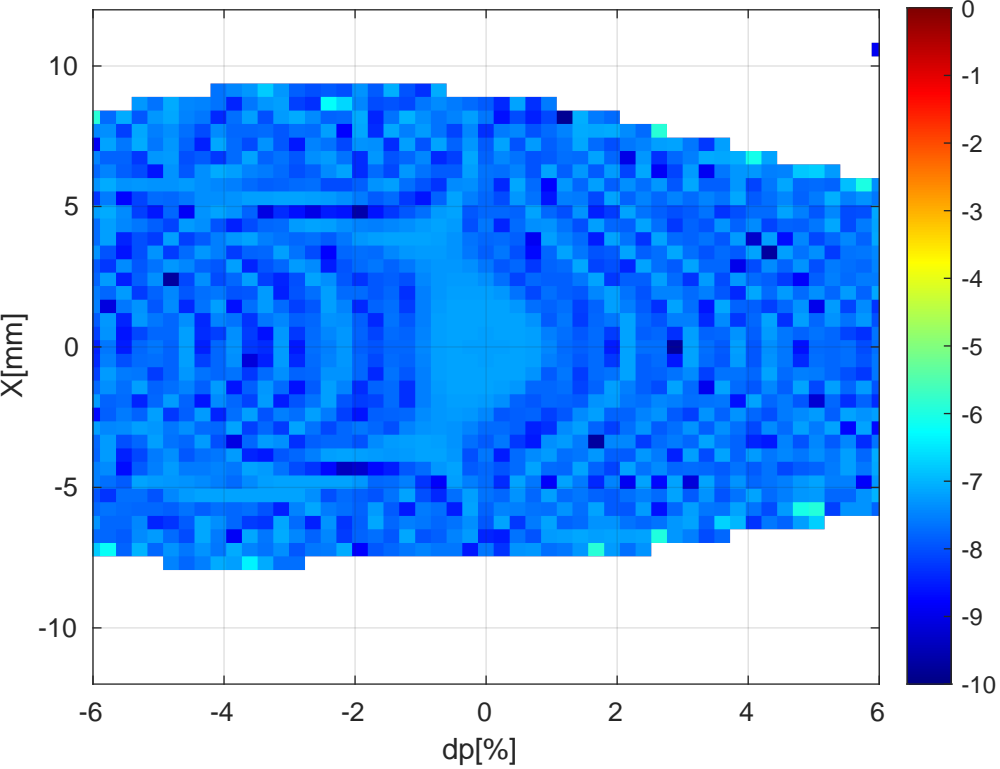


4U-240701-f01-01-01 Tune Diffusion Rate:(X,Y),Res order=3

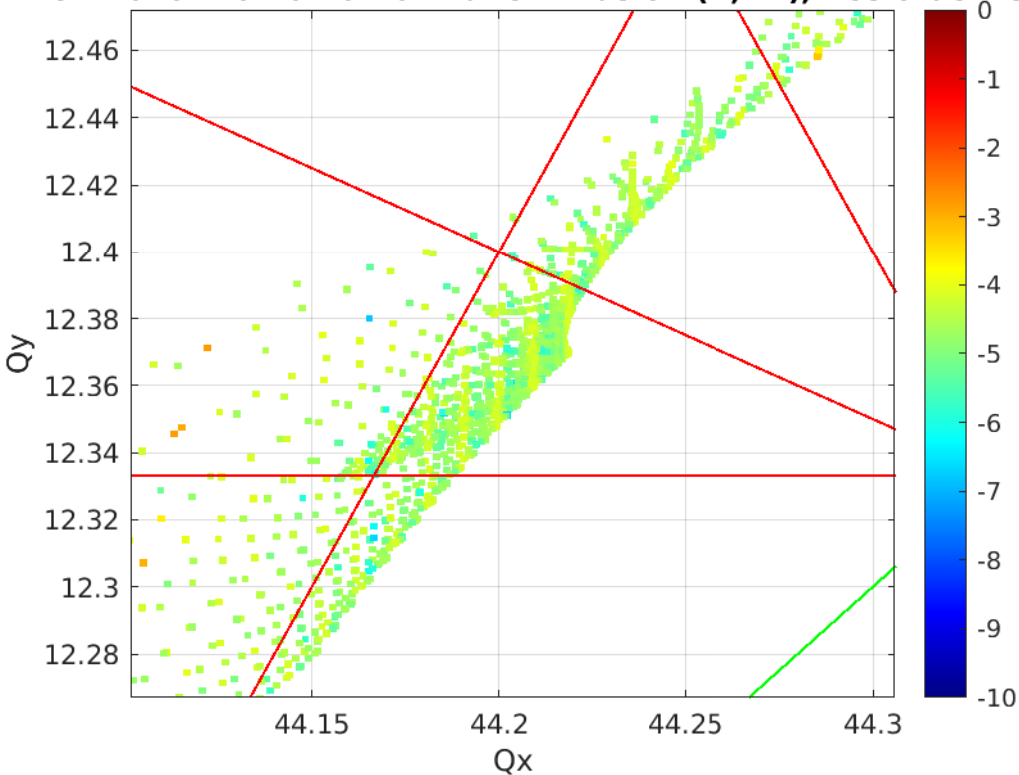




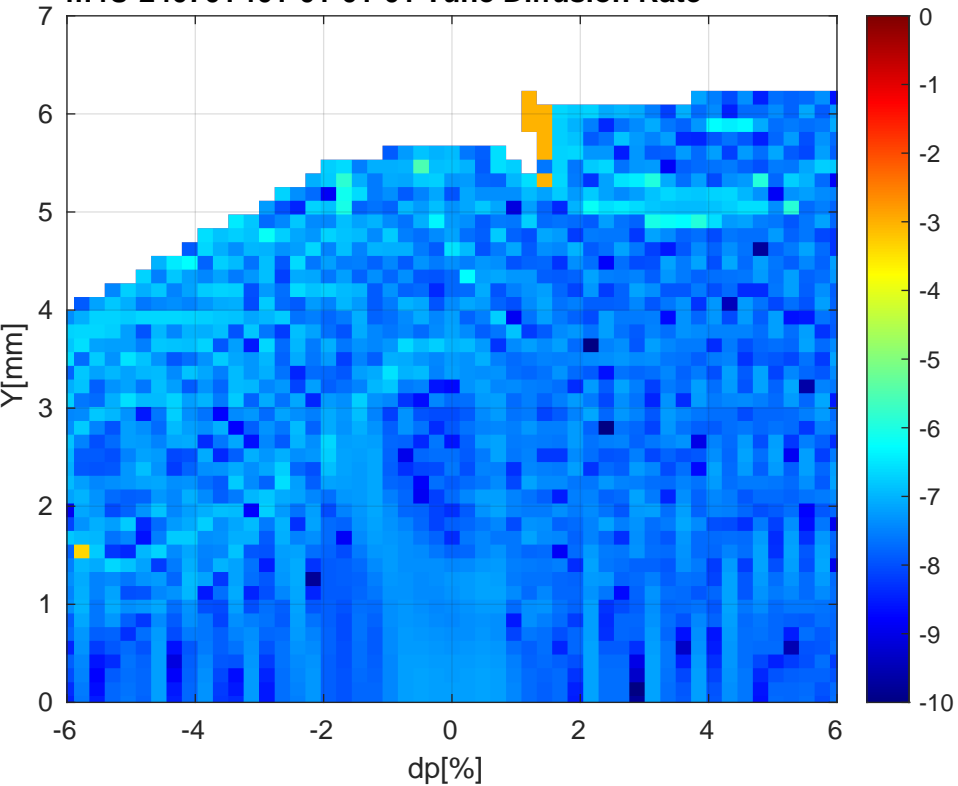
m4U-240701-f01-01-01 Tune Diffusion Rate



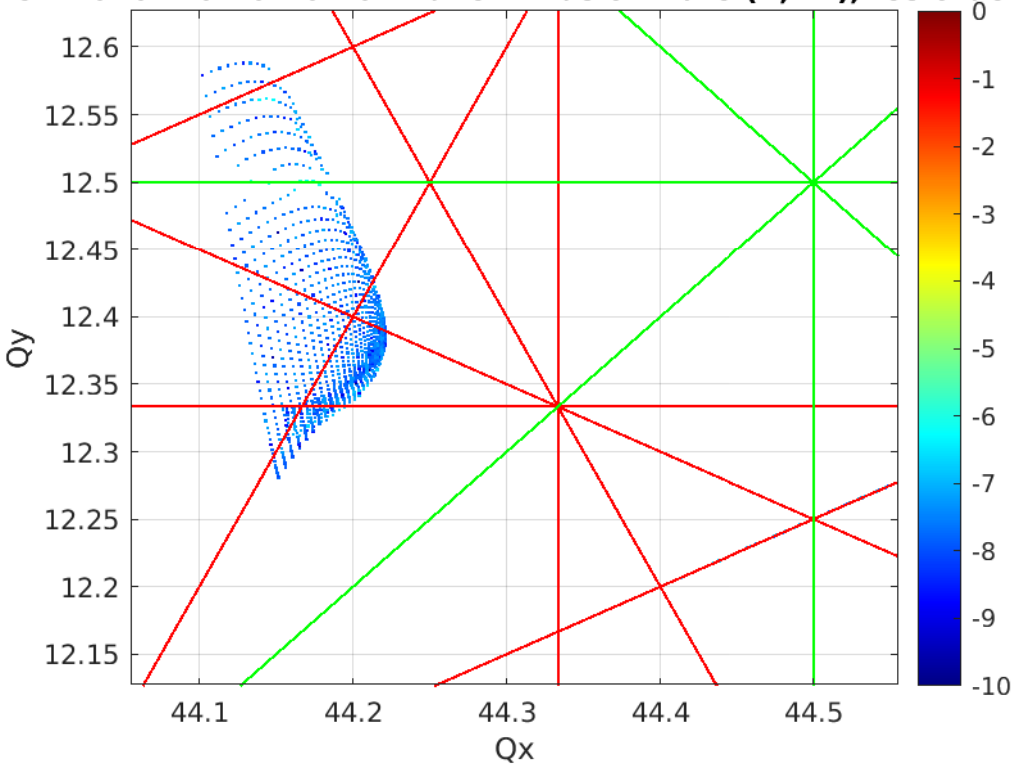
m4U-240701-f01-01-01 Tune Diffusion:(X,DP), Res order=3



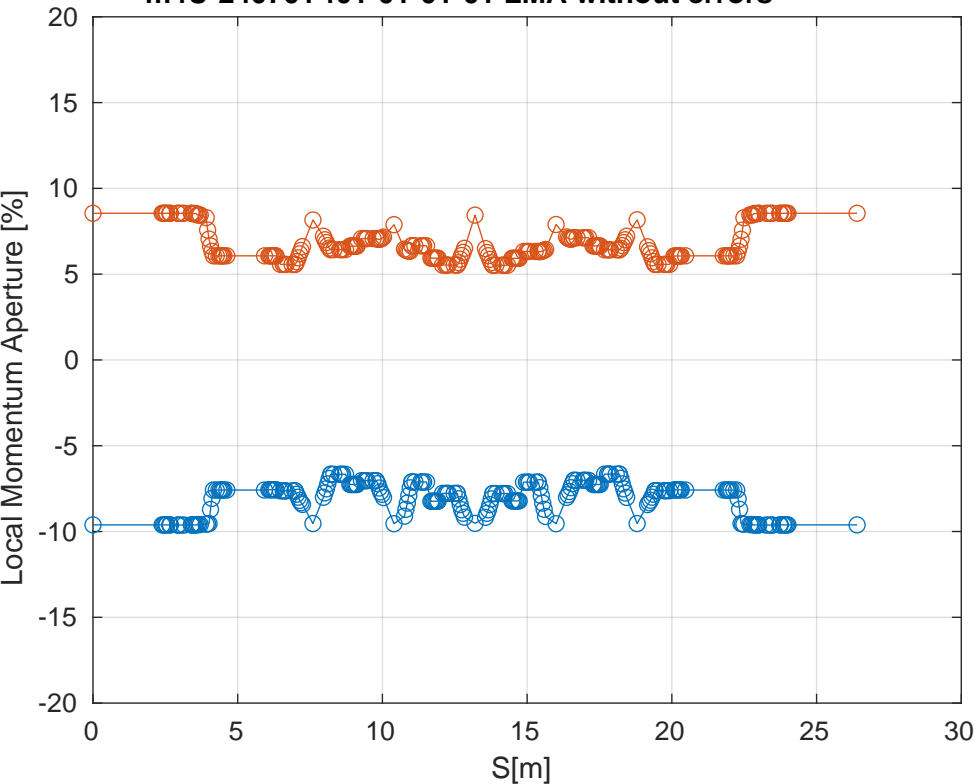
m4U-240701-f01-01-01 Tune Diffusion Rate



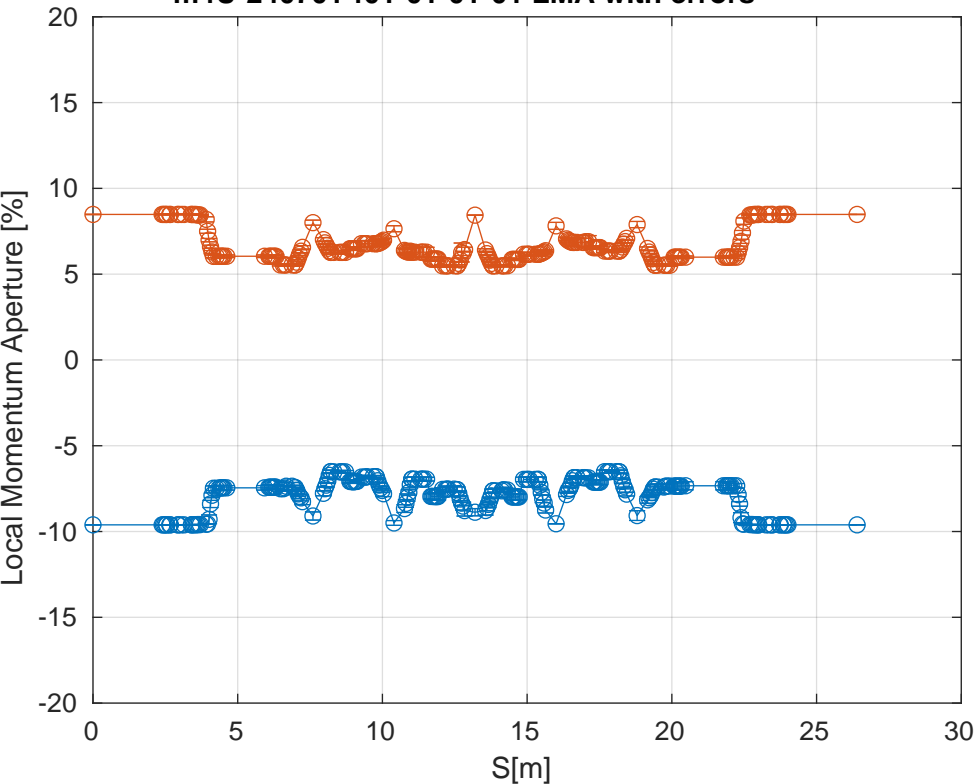
4U-240701-f01-01-01 Tune Diffusion Rate:(Y,DP),Res order=3



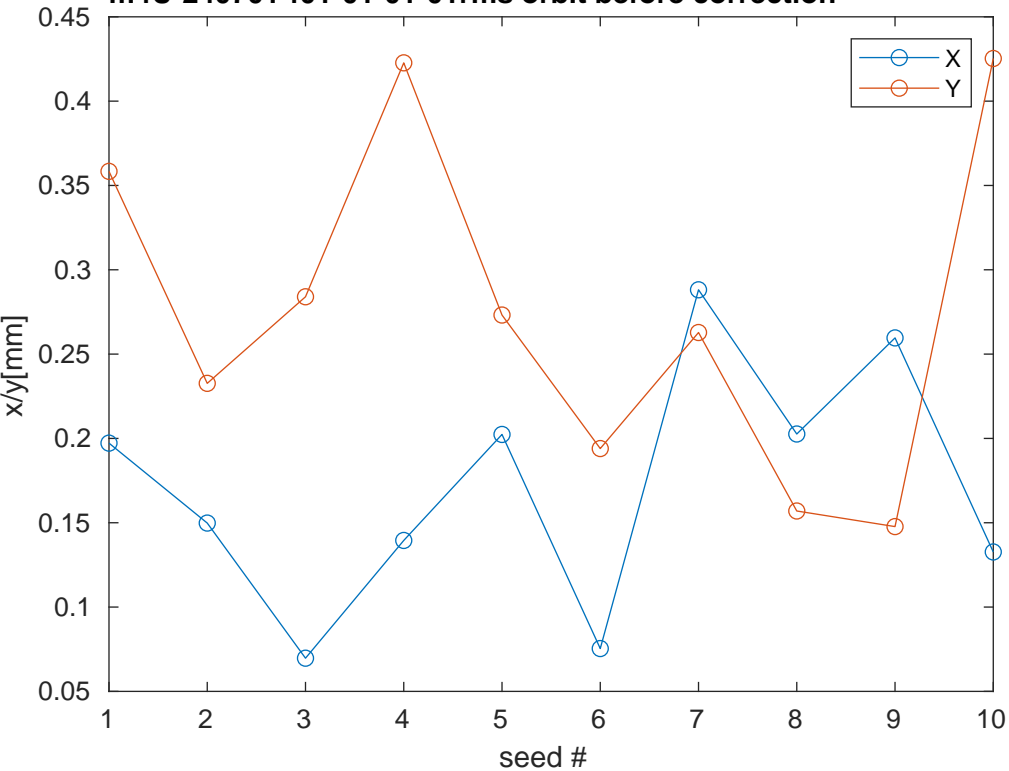
m4U-240701-f01-01-01-01 LMA without errors

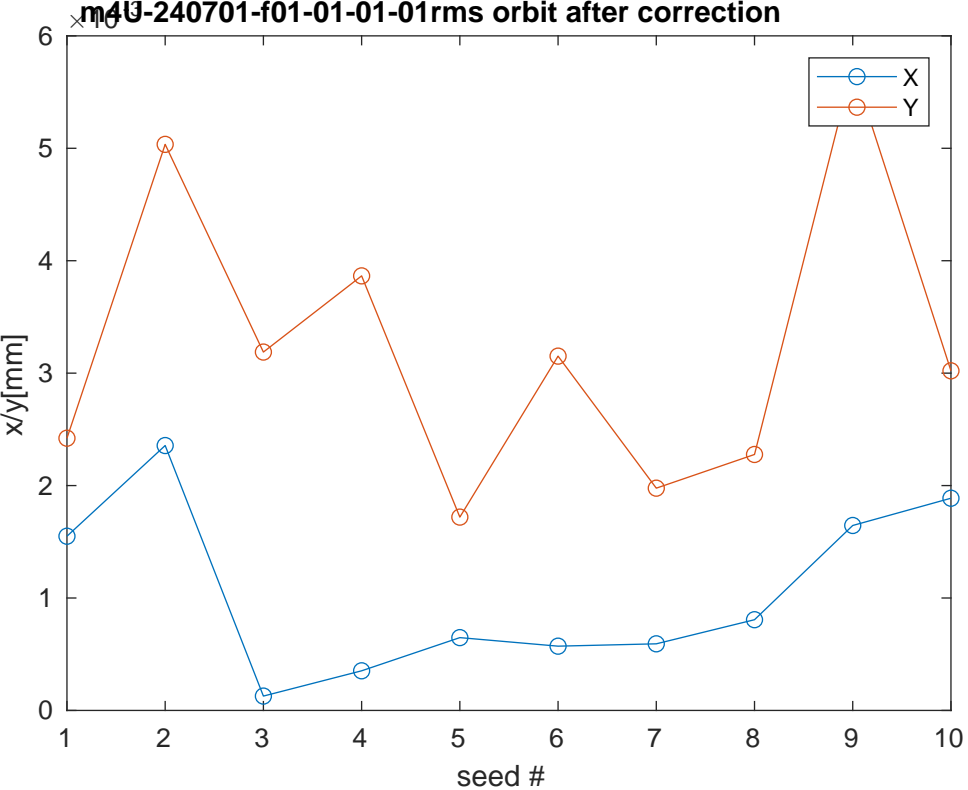


m4U-240701-f01-01-01-01 LMA with errors



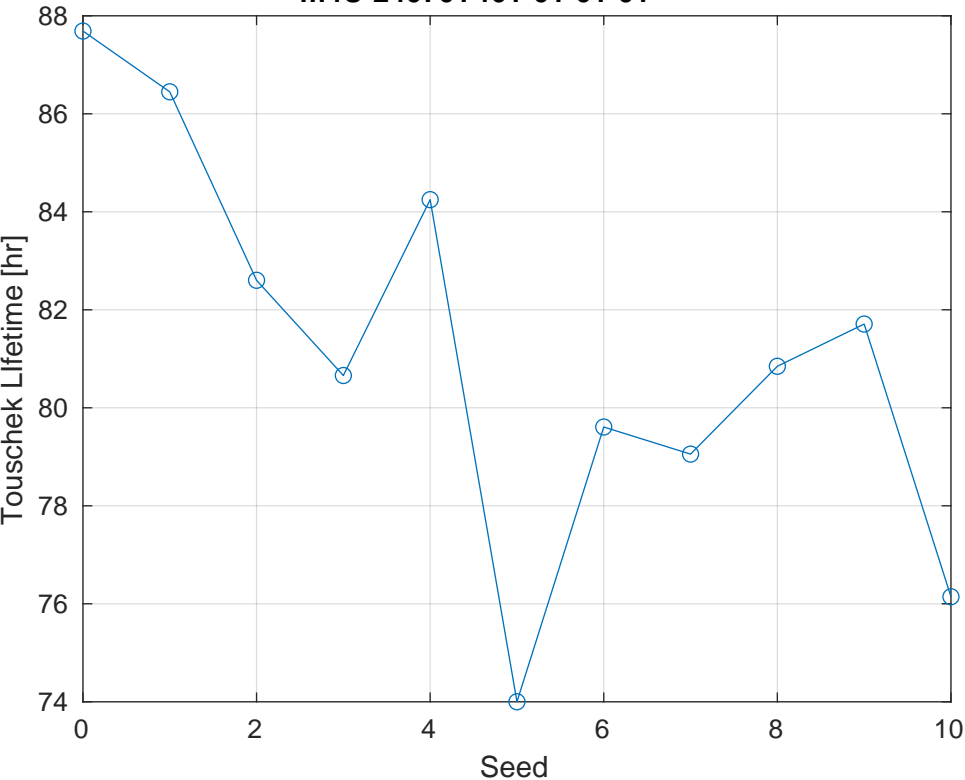
m4U-240701-f01-01-01rms orbit before correction



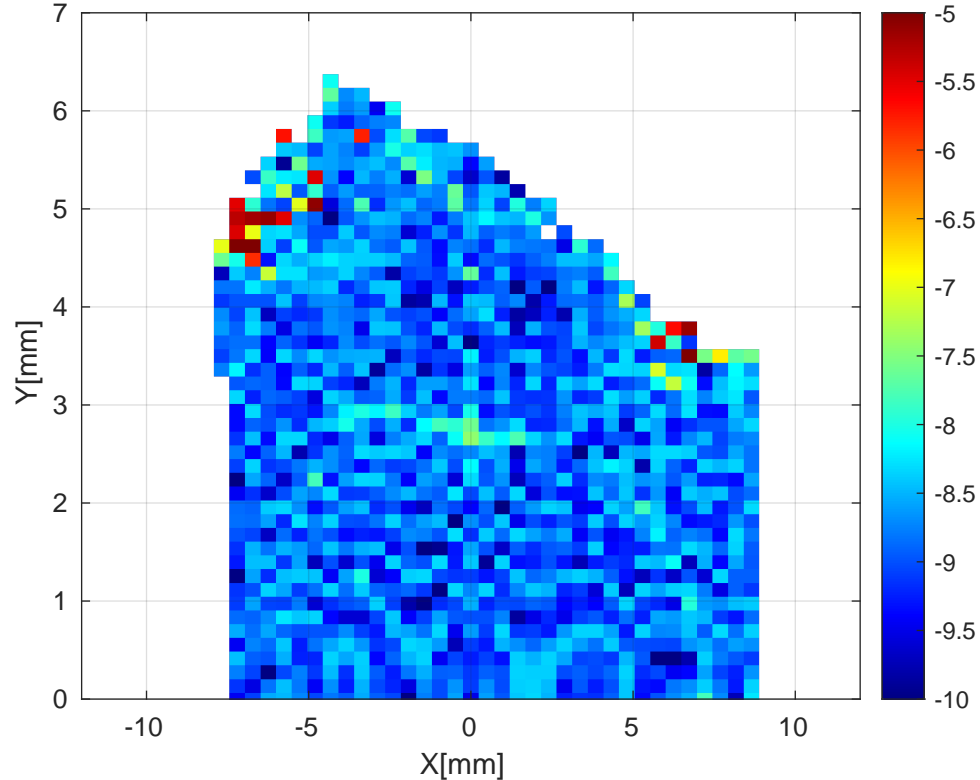




m4U-240701-f01-01-01



m4U-240701-f01-01-01: no errors Tune Diffusion Rate



m4U-240701-f01-01-01: with errors Tune Diffusion Rate

