# **DoseLab CT Imaging QA Results**

Summary: All tests passed

DoseLab version: 6.80 Date: March 06, 2020 Machine: Unit 9, #:4169 Phantom: Catphan 504 Magnification: 99.83%

Energy: 125 kV

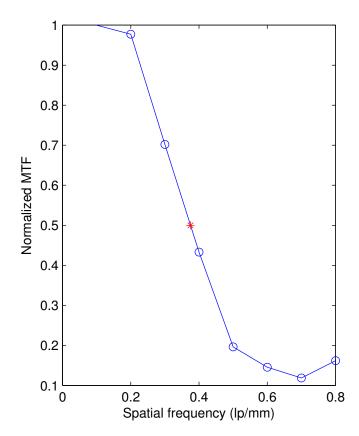
Expected slice width: 2.0 mm

Matrix size: 512x512 Performed by: Lingyue Sun

Tolerance set: Unit:1,6,7,8, 9 Large FOV

Scaling discrepancy: 0.8 mm (Pass) Geometric distortion: 0.1 mm (Pass)

Spatial resolution (50% MTF): 0.38 lp/mm (Pass) Minimum uniformity (ROI 22): 99.2% (Pass)



### CTP404 module results

#### **Contrast ROI details**

Measured HU

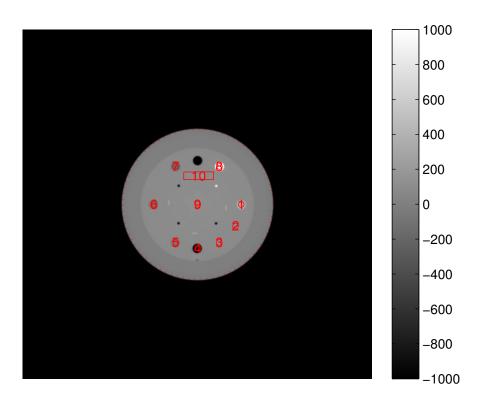
1:351 2:95

#### **HU constancy ROI details**

Reference / Measured / Difference

3 (Acrylic): 120 / 121 / 1 4 (Air): -1000 / -999 / 1 5 (Polystyrene): -35 / -41 / -6 6 (LDPE): -100 / -97 / 3 7 (PMP): -200 / -187 / 13

8 (Teflon): 990 / 960 / -30 9 (CTP404): 100 / 124 / 24





## CTP528 module results

# Spatial resolution ROI details

Phantom Ip/mm / Normalized MTF

11: 0.1 / 1.00

12: 0.2 / 0.98

13: 0.3 / 0.70

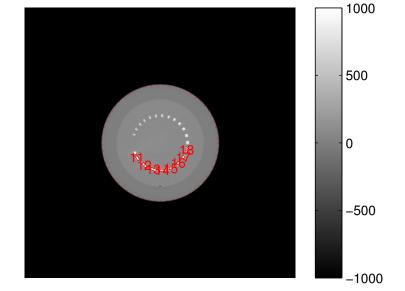
14: 0.4 / 0.43

15: 0.5 / 0.20

16: 0.6 / 0.15

17: 0.7 / 0.12

18: 0.8 / 0.16



# CTP486 module results

# **Uniformity ROI details**

Measured HU / Uniformity

19: 38 / 99.3%

20: 25 / 99.2%

21: 18 / 99.3%

22: 21 / 99.2%

23: 16 / 99.3%

