

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: November 27, 2019

Machine: Unit 3, #:3484

Phantom: Catphan 504

Magnification: 100.02%

Energy: 100 kV

Expected slice width: 1.0 mm

Matrix size: 512x512

Performed by: Thomas Mann

Tolerance set: Unit 3&5 Small FOV

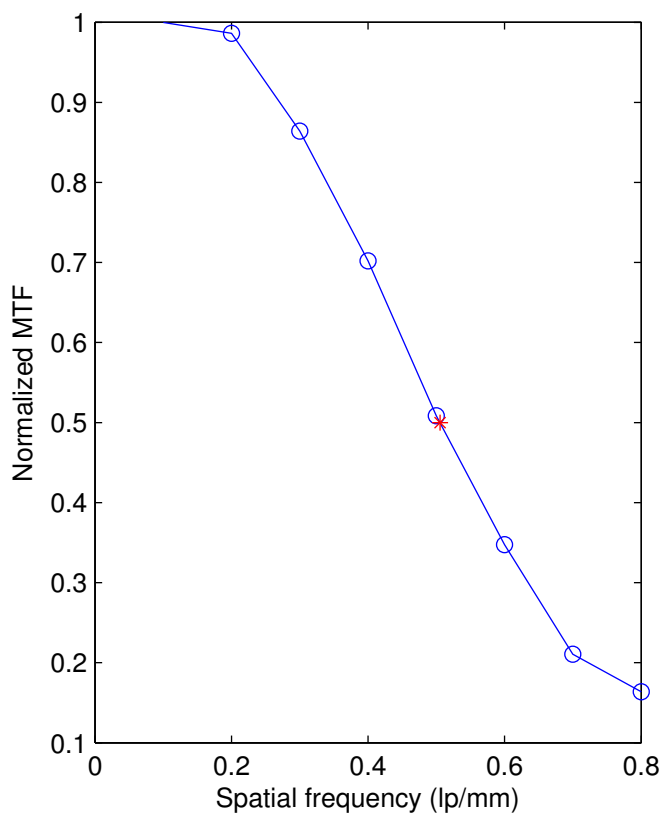
Scaling discrepancy: 0.1 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

Spatial resolution (50% MTF): 0.51 lp/mm (Pass)

Minimum uniformity (ROI 21): 96.9% (Pass)

Slice width: 1.72 mm (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 396

2: 113

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 149 / 29

4 (Air): -1000 / -1000 / 0

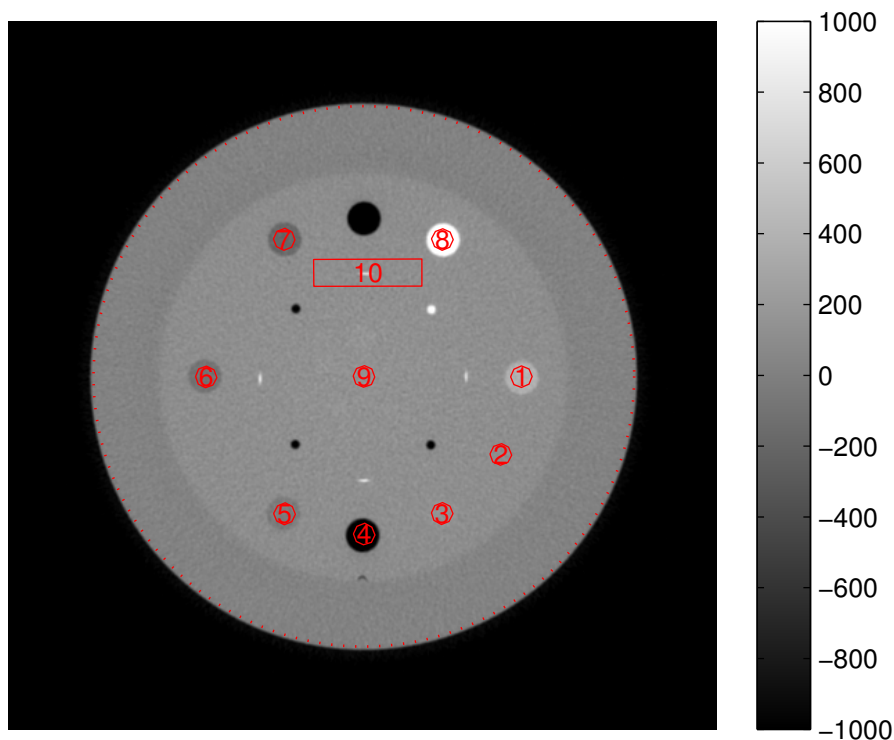
5 (Polystyrene): -35 / -33 / 2

6 (LDPE): -100 / -97 / 3

7 (PMP): -200 / -192 / 8

8 (Teflon): 990 / 1093 / 103

9 (CTP404): 100 / 141 / 41



CTP528 module results

Spatial resolution ROI details

Phantom lp/mm / Normalized MTF

11: 0.1 / 1.00

12: 0.2 / 0.99

13: 0.3 / 0.86

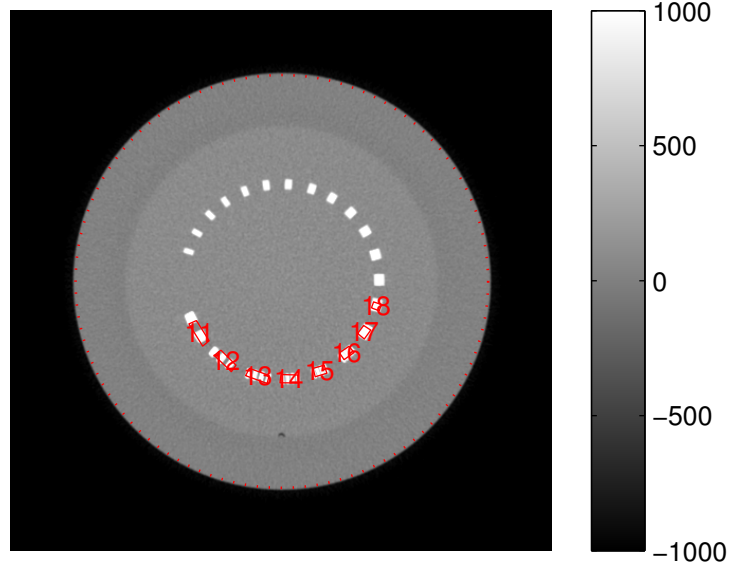
14: 0.4 / 0.70

15: 0.5 / 0.51

16: 0.6 / 0.35

17: 0.7 / 0.21

18: 0.8 / 0.16



CTP486 module results

Uniformity ROI details

Measured HU / Uniformity

19: 35 / 97.0%

20: 24 / 97.0%

21: 27 / 96.9%

22: 28 / 96.9%

23: 24 / 97.1%

