

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: March 17, 2020

Machine: Unit 8, #:3864

Phantom: Catphan 504

Magnification: 99.81%

Energy: 125 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Rebecca Frederick

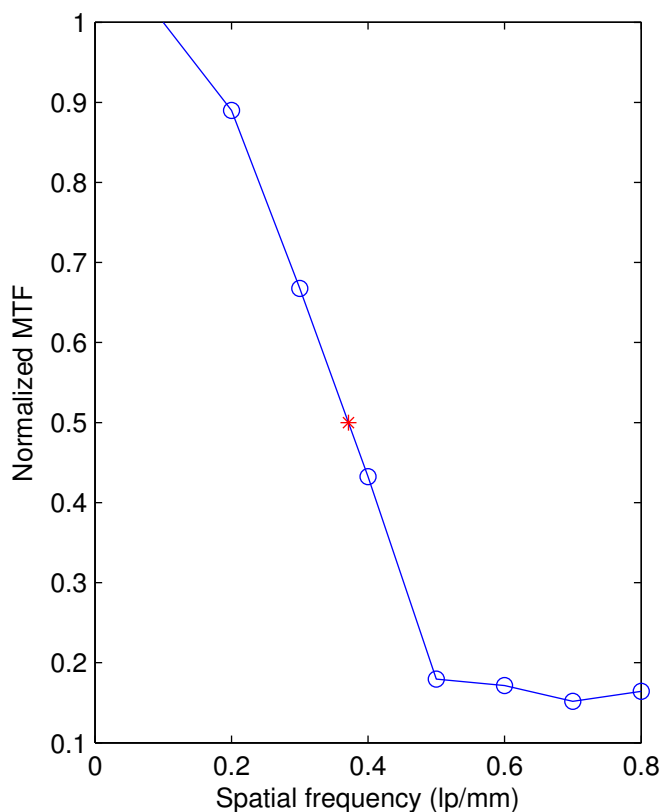
Tolerance set: Unit:1,6,7,8, 9 Large FOV

Scaling discrepancy: 0.9 mm (Pass)

Geometric distortion: 0.2 mm (Pass)

Spatial resolution (50% MTF): 0.37 lp/mm (Pass)

Minimum uniformity (ROI 23): 98.7% (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 339

2: 88

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 111 / -9

4 (Air): -1000 / -999 / 1

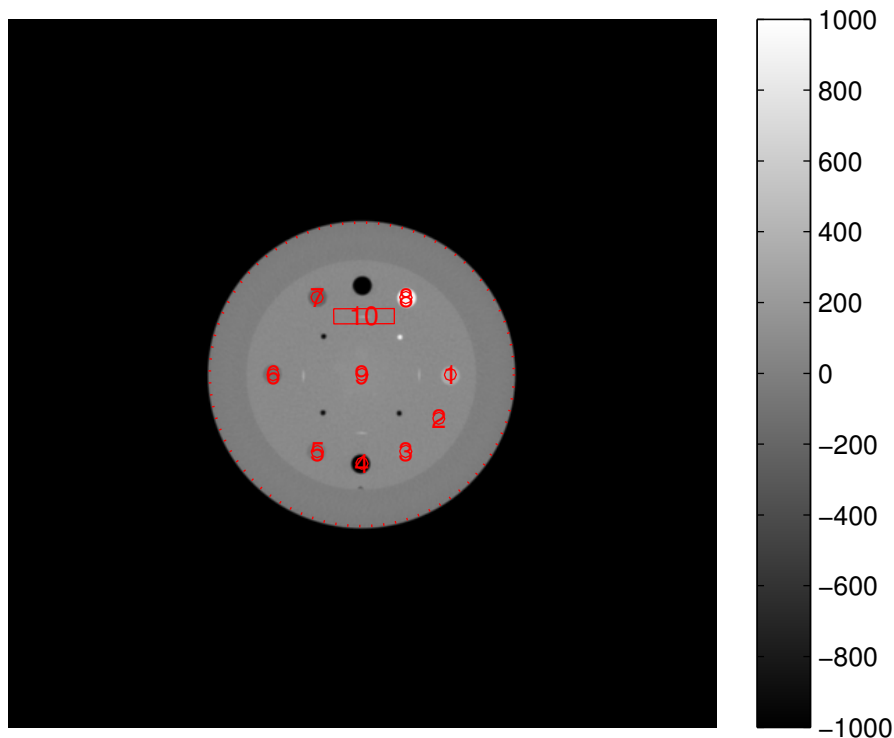
5 (Polystyrene): -35 / -49 / -14

6 (LDPE): -100 / -109 / -9

7 (PMP): -200 / -199 / 1

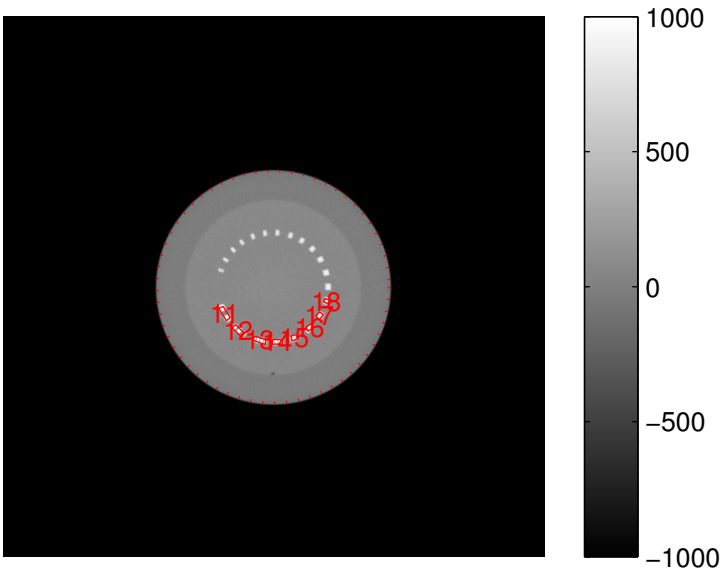
8 (Teflon): 990 / 947 / -43

9 (CTP404): 100 / 122 / 22



CTP528 module results

Spatial resolution ROI details
Phantom lp/mm / Normalized MTF
11: 0.1 / 1.00
12: 0.2 / 0.89
13: 0.3 / 0.67
14: 0.4 / 0.43
15: 0.5 / 0.18
16: 0.6 / 0.17
17: 0.7 / 0.15
18: 0.8 / 0.16



CTP486 module results

Uniformity ROI details
Measured HU / Uniformity
19: 33 / 99.0%
20: 7 / 98.9%
21: 6 / 98.9%
22: 4 / 98.8%
23: 2 / 98.7%

