

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: November 12, 2019

Machine: Unit 7, #:1245

Phantom: Catphan 504

Magnification: 99.87%

Energy: 125 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Joseph Madamesila

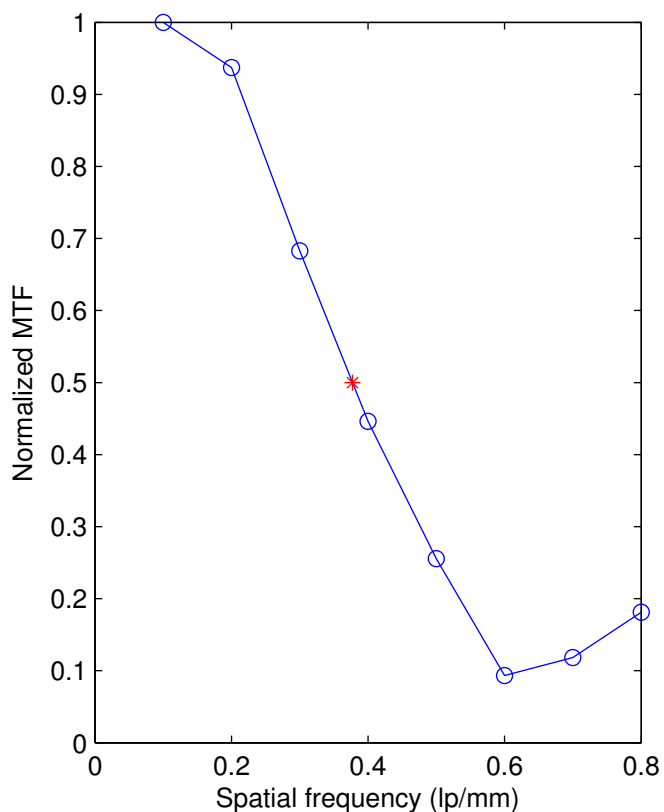
Tolerance set: Unit:1,6,7,8, 9 Large FOV

Scaling discrepancy: 0.6 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

Spatial resolution (50% MTF): 0.38 lp/mm (Pass)

Minimum uniformity (ROI 19): 98.1% (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 376

2: 111

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 143 / 23

4 (Air): -1000 / -996 / 4

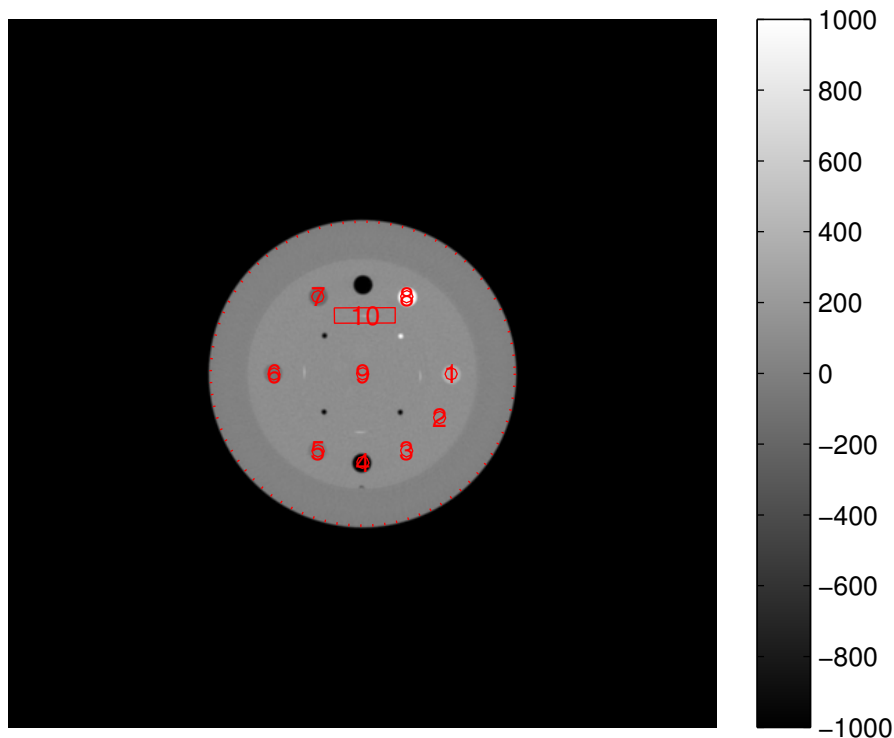
5 (Polystyrene): -35 / -23 / 12

6 (LDPE): -100 / -76 / 24

7 (PMP): -200 / -170 / 30

8 (Teflon): 990 / 1008 / 18

9 (CTP404): 100 / 92 / -8



CTP528 module results

Spatial resolution ROI details

Phantom lp/mm / Normalized MTF

11: 0.1 / 1.00

12: 0.2 / 0.94

13: 0.3 / 0.68

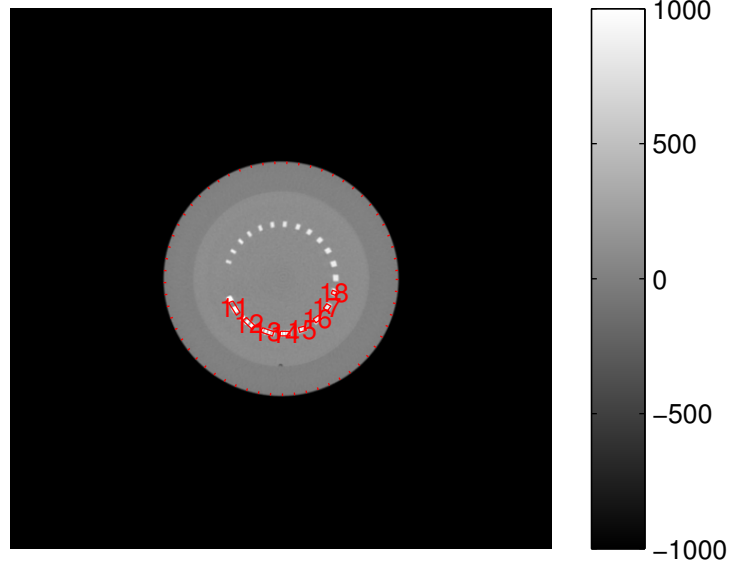
14: 0.4 / 0.45

15: 0.5 / 0.26

16: 0.6 / 0.09

17: 0.7 / 0.12

18: 0.8 / 0.18



CTP486 module results

Uniformity ROI details

Measured HU / Uniformity

19: 19 / 98.1%

20: 35 / 98.6%

21: 34 / 98.6%

22: 35 / 98.7%

23: 30 / 98.6%

