

## DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: January 03, 2020

Machine: Unit 5\_New, #:2899

Phantom: Catphan 504

Magnification: 99.84%

Energy: 125 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Svetlana Kuznetsova

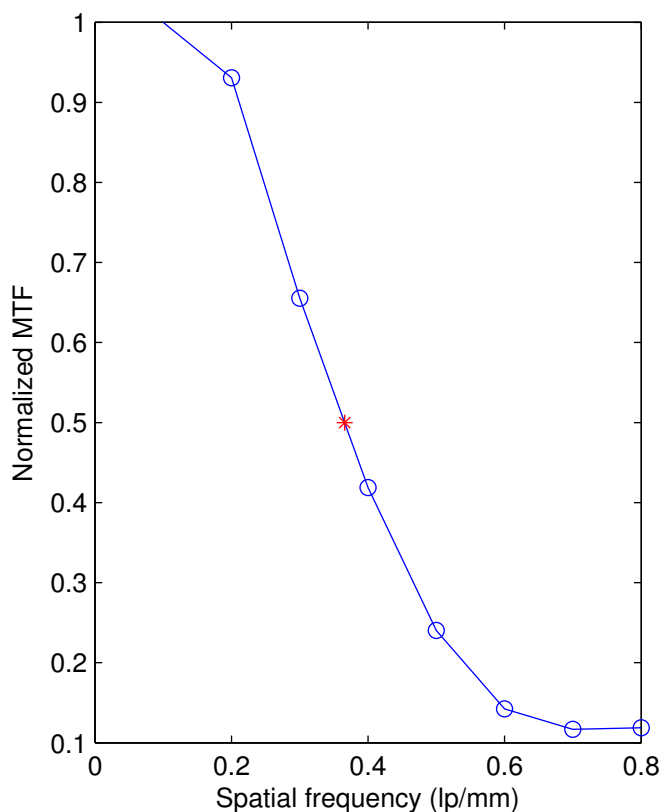
Tolerance set: Unit 3&5 Large FOV

Scaling discrepancy: 0.7 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

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

Minimum uniformity (ROI 22): 98.6% (Pass)



## CTP404 module results

### Contrast ROI details

Measured HU

1: 359

2: 95

### HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 123 / 3

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

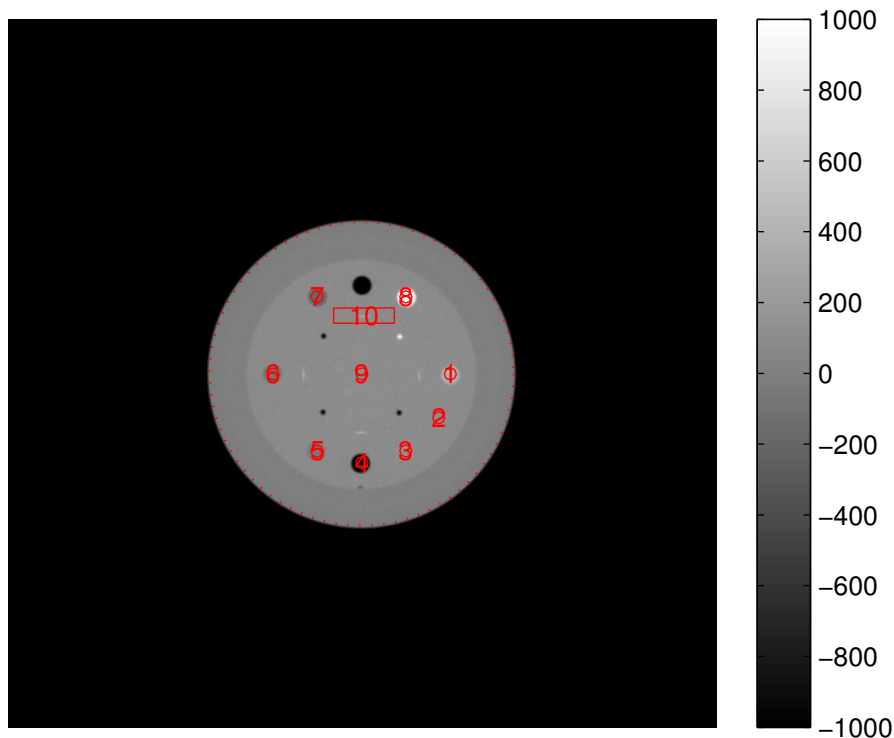
5 (Polystyrene): -35 / -43 / -8

6 (LDPE): -100 / -99 / 1

7 (PMP): -200 / -189 / 11

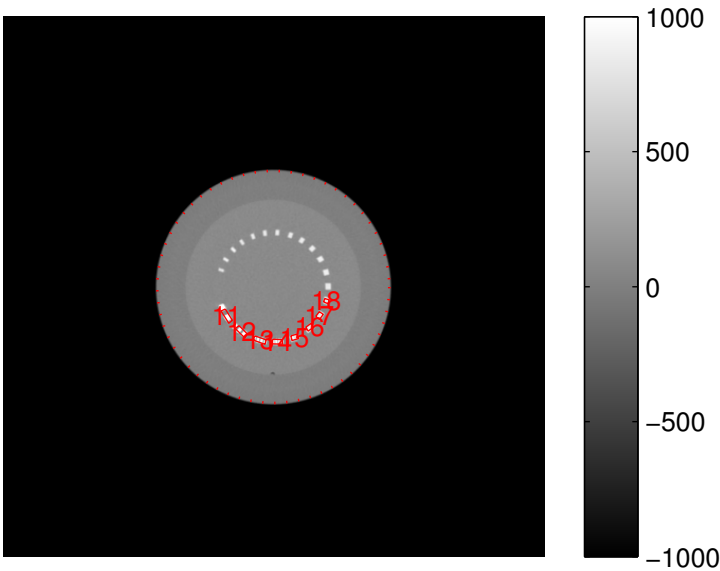
8 (Teflon): 990 / 972 / -18

9 (CTP404): 100 / 104 / 4



CTP528 module results

**Spatial resolution ROI details**  
Phantom lp/mm / Normalized MTF  
11: 0.1 / 1.00  
12: 0.2 / 0.93  
13: 0.3 / 0.66  
14: 0.4 / 0.42  
15: 0.5 / 0.24  
16: 0.6 / 0.14  
17: 0.7 / 0.12  
18: 0.8 / 0.12



CTP486 module results

**Uniformity ROI details**  
Measured HU / Uniformity  
19: 18 / 98.9%  
20: 16 / 98.7%  
21: 11 / 98.7%  
22: 9 / 98.6%  
23: 9 / 98.8%

