

## DoseLab CT Imaging QA Results

Summary: **Some tests generated a warning**

DoseLab version: 6.80

Date: October 01, 2019

Machine: Unit 10, #:1166

Phantom: Catphan 504

Magnification: 99.80%

Energy: 80 kV

Expected slice width: 2.5 mm

Matrix size: 512x512

Performed by: Pedro Martinez

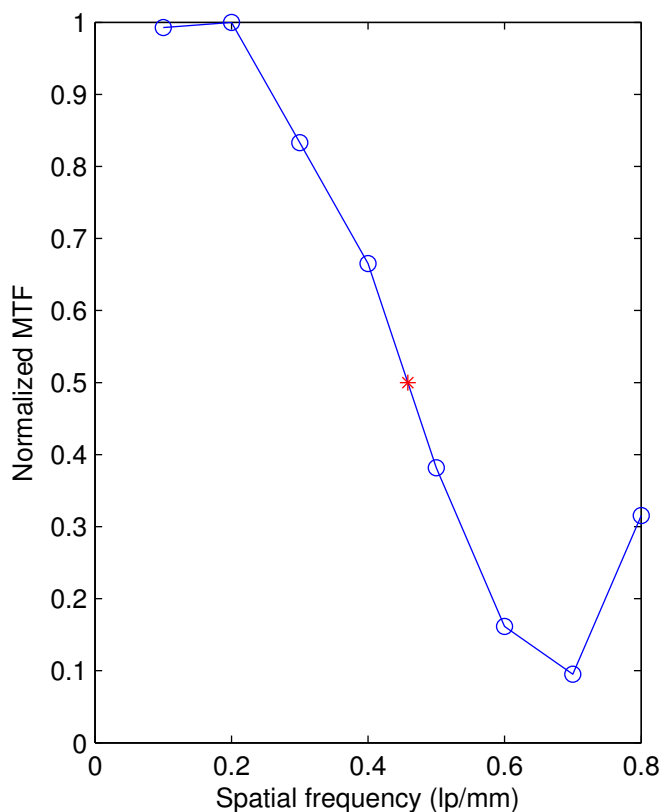
Tolerance set: Unit 10 Large FOV

Scaling discrepancy: 0.9 mm (Pass)

Geometric distortion: 0.3 mm (Pass)

Spatial resolution (50% MTF): 0.46 lp/mm (Warning)

Minimum uniformity (ROI 23): 98.8% (Pass)



## CTP404 module results

### Contrast ROI details

Measured HU

1: 346

2: 98

### HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 125 / 5

4 (Air): -1000 / -982 / 18

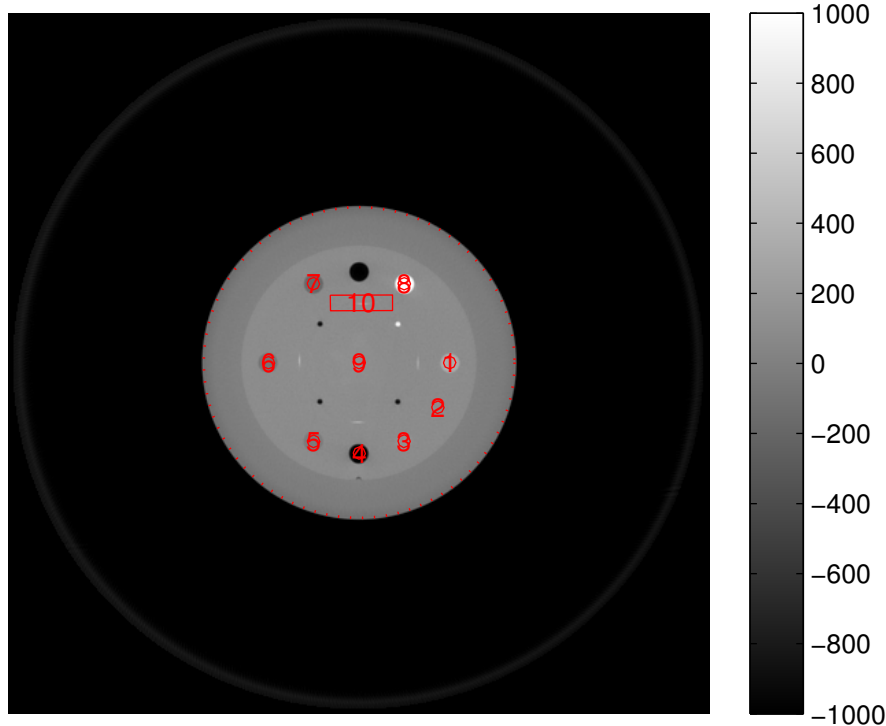
5 (Polystyrene): -35 / -36 / -1

6 (LDPE): -100 / -84 / 16

7 (PMP): -200 / -179 / 21

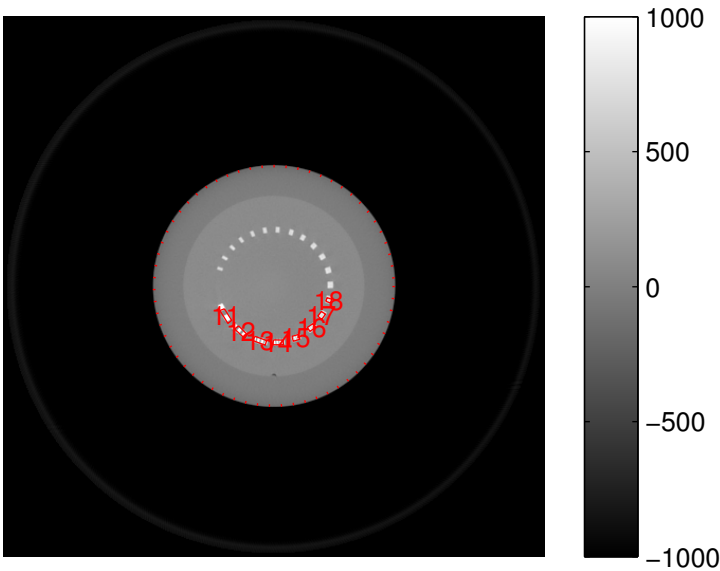
8 (Teflon): 990 / 985 / -5

9 (CTP404): 100 / 117 / 17



CTP528 module results

**Spatial resolution ROI details**  
Phantom lp/mm / Normalized MTF  
11: 0.1 / 0.99  
12: 0.2 / 1.00  
13: 0.3 / 0.83  
14: 0.4 / 0.67  
15: 0.5 / 0.38  
16: 0.6 / 0.16  
17: 0.7 / 0.10  
18: 0.8 / 0.32



CTP486 module results

**Uniformity ROI details**  
Measured HU / Uniformity  
19: 40 / 98.9%  
20: 40 / 98.9%  
21: 48 / 99.0%  
22: 53 / 98.9%  
23: 46 / 98.8%

