# DoseLab CT Imaging QA Results

Summary: Some tests generated a warning

DoseLab version: 6.80
Date: December 05, 2019
Machine: Unit 9, #:4169
Phantom: Catphan 504
Magnification: 99.74%
Energy: 120 kV
Expected slice width: 2.0 mm
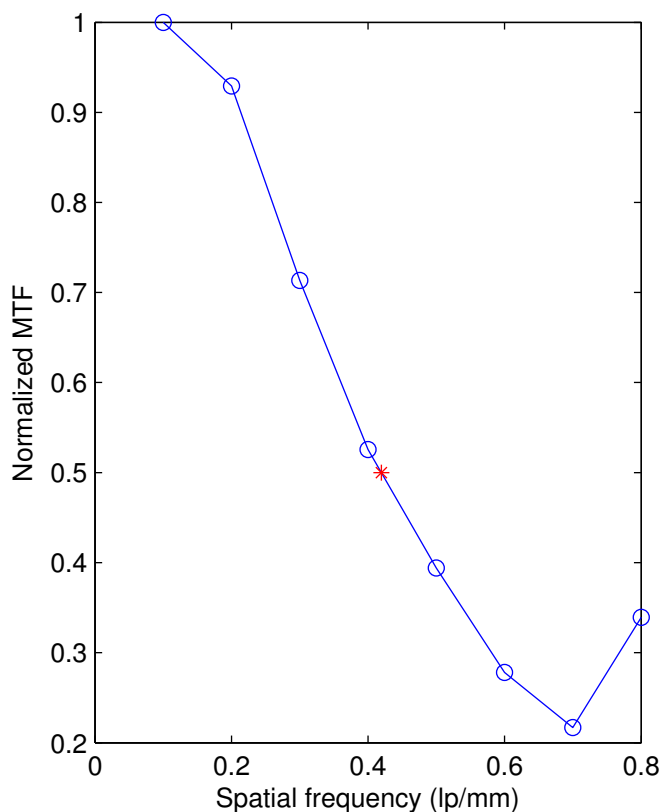Matrix size: 512x512
Performed by: Alex Guebert
Tolerance set: Unit 9 Small FOV

Scaling discrepancy: 0.7 mm (Pass)
Geometric distortion: 0.1 mm (Pass)
Spatial resolution (50% MTF): 0.42 lp/mm (Warning)
Minimum uniformity (ROI 19): 97.8% (Pass)



## CTP404 module results

**Contrast ROI details**
Measured HU
1: 367
2: 260

**HU constancy ROI details**
Reference / Measured / Difference
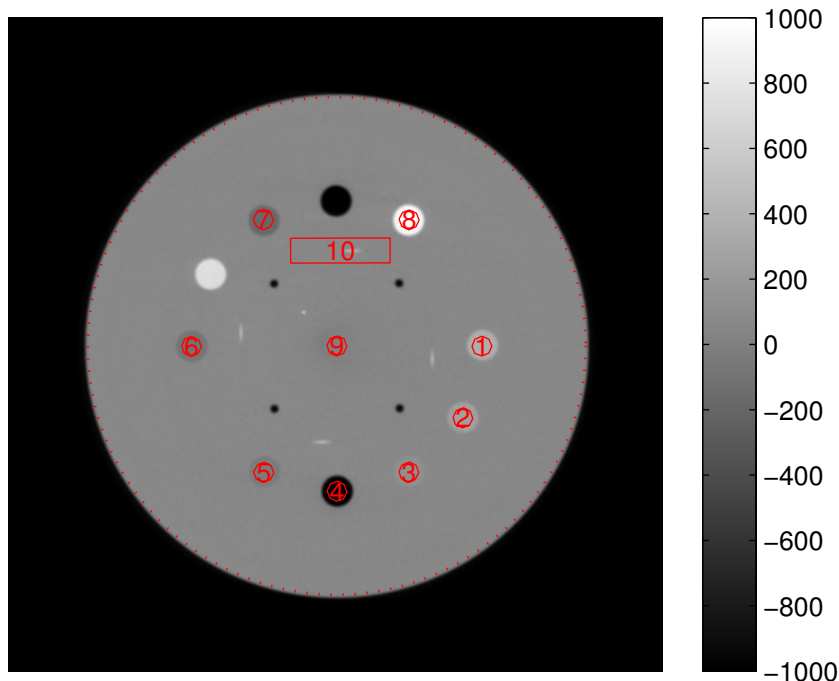3 (Acrylic): 120 / 130 / 10
4 (Air): −1000 / −999 / 1
5 (Polystyrene): −35 / −35 / −0
6 (LDPE): −100 / −85 / 15
7 (PMP): −200 / −182 / 18
8 (Teflon): 990 / 983 / −7
9 (CTP404): 100 / 14 / −86

## CTP528 module results

**Spatial resolution ROI details**
Phantom lp/mm / Normalized MTF
11: 0.1 / 1.00
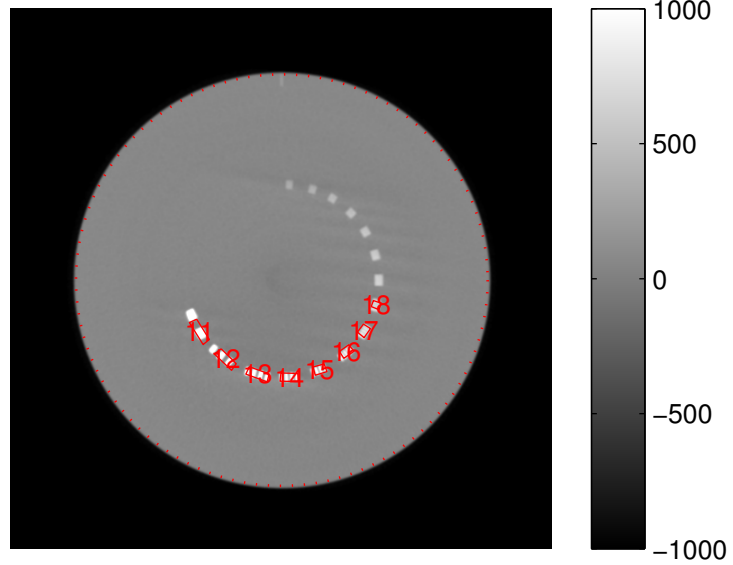12: 0.2 / 0.93
13: 0.3 / 0.71
14: 0.4 / 0.53
15: 0.5 / 0.39
16: 0.6 / 0.28
17: 0.7 / 0.22
18: 0.8 / 0.34



## CTP486 module results

**Uniformity ROI details**
Measured HU / Uniformity
19: −3 / 97.8%
20: 24 / 99.1%
21: 22 / 99.0%
22: 34 / 99.2%
23: 34 / 99.1%