# DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80
Date: January 08, 2020
Machine: Unit 1, #:3951
Phantom: Catphan 504
Magnification: 100.06%
Energy: 125 kV
Expected slice width: 2.0 mm
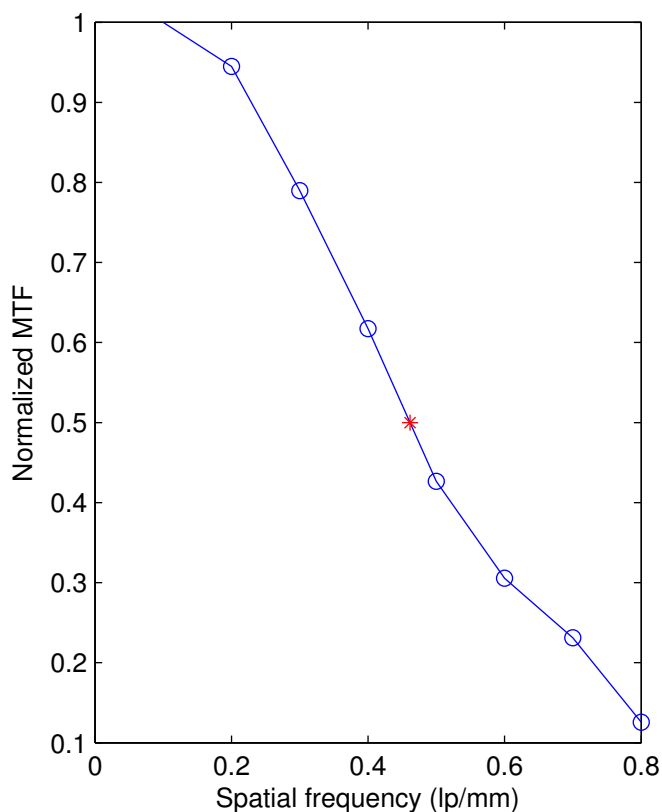Matrix size: 512x512
Performed by: Amy Frederick
Tolerance set: Unit:1,6,7,8 Large FOV

Scaling discrepancy: 0.2 mm (Pass)
Geometric distortion: 0.1 mm (Pass)
Spatial resolution (50% MTF): 0.46 lp/mm (Pass)
Minimum uniformity (ROI 21): 97.9% (Pass)



## CTP404 module results

**Contrast ROI details**
Measured HU
1: 351
2: 89

**HU constancy ROI details**
Reference / Measured / Difference
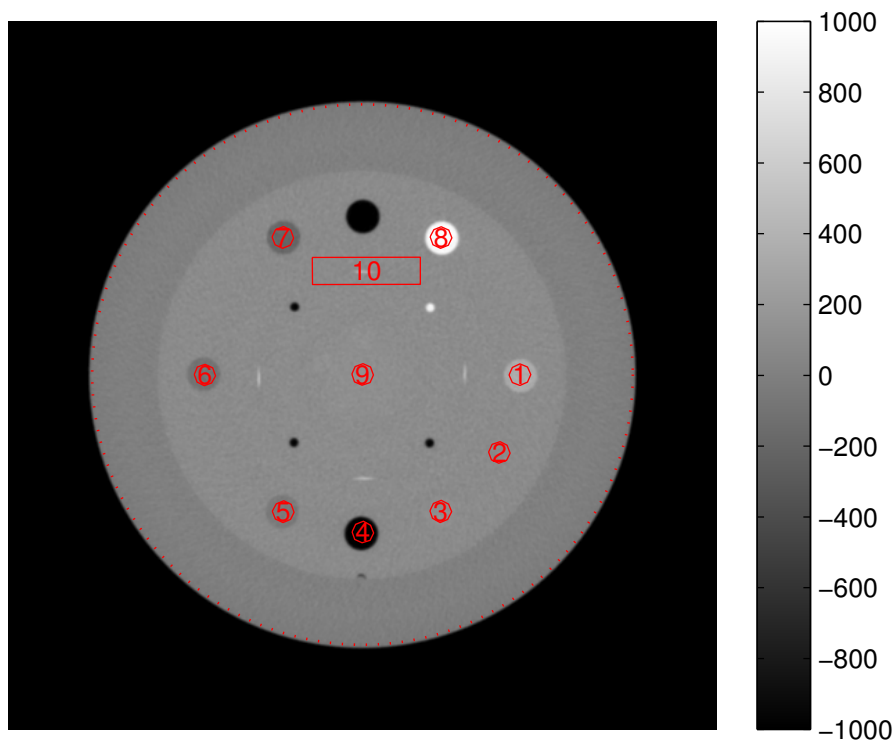3 (Acrylic): 120 / 119 / −1
4 (Air): −1000 / −998 / 2
5 (Polystyrene): −35 / −44 / −9
6 (LDPE): −100 / −99 / 1
7 (PMP): −200 / −195 / 5
8 (Teflon): 990 / 965 / −25
9 (CTP404): 100 / 133 / 33

# CTP528 module results

**Spatial resolution ROI details**
Phantom lp/mm / Normalized MTF
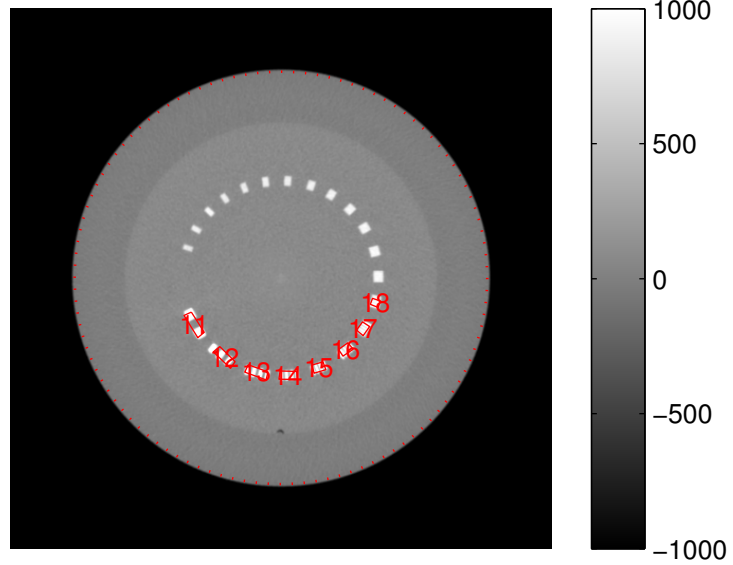11: 0.1 / 1.00
12: 0.2 / 0.94
13: 0.3 / 0.79
14: 0.4 / 0.62
15: 0.5 / 0.43
16: 0.6 / 0.31
17: 0.7 / 0.23
18: 0.8 / 0.13



# CTP486 module results

**Uniformity ROI details**
Measured HU / Uniformity
19: 36 / 98.2%
20: 14 / 98.0%
21: 13 / 97.9%
22: 11 / 98.1%
23: 10 / 98.0%