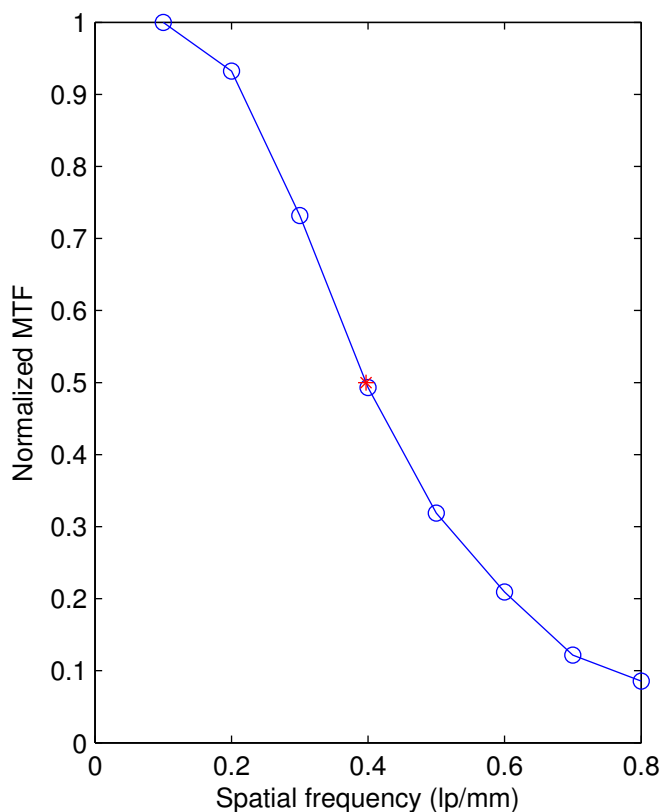# DoseLab CT Imaging QA Results

Summary: Some tests generated a warning

DoseLab version: 6.80
Date: November 22, 2019
Machine: Unit 6, #:0000
Phantom: Catphan 504
Magnification: 99.82%
Energy: 120 kV
Expected slice width: 2.0 mm
Matrix size: 512x512
Performed by: Devin VanElburg
Tolerance set: Unit: 1,6,7,8 Small FOV

Scaling discrepancy: 0.5 mm (Pass)
Geometric distortion: 0.1 mm (Pass)
Spatial resolution (50% MTF): 0.40 lp/mm (Pass)
Minimum uniformity (ROI 23): 98.9% (Warning)

CTP404 module results

Contrast ROI details
Measured HU
1: 348
2: 95

HU constancy ROI details
Reference / Measured / Difference
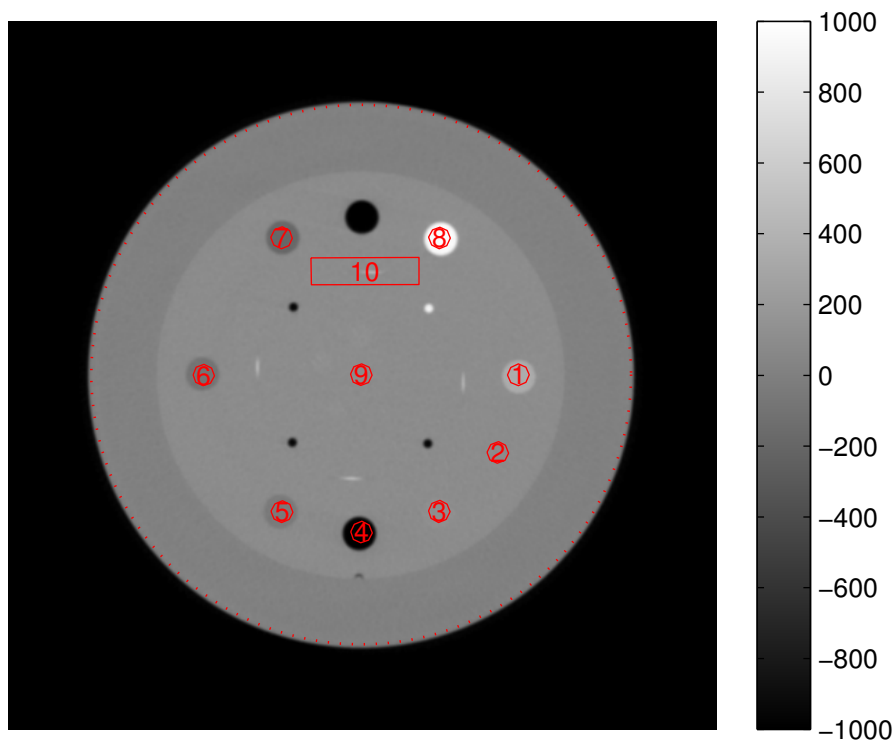3 (Acrylic): 120 / 123 / 3
4 (Air): −1000 / −999 / 1
5 (Polystyrene): −35 / −40 / −5
6 (LDPE): −100 / −92 / 8
7 (PMP): −200 / −188 / 12
8 (Teflon): 990 / 967 / −23
9 (CTP404): 100 / 99 / −1

CTP528 module results

Spatial resolution ROI details
Phantom lp/mm / Normalized MTF
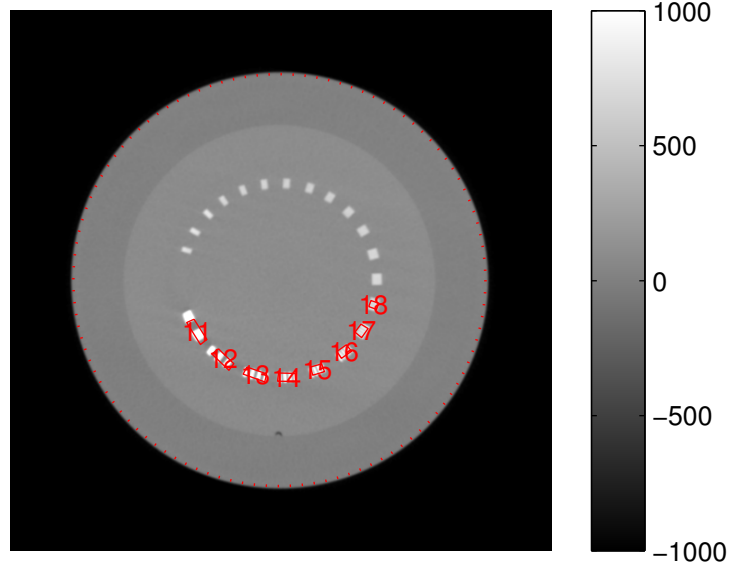11: 0.1 / 1.00
12: 0.2 / 0.93
13: 0.3 / 0.73
14: 0.4 / 0.49
15: 0.5 / 0.32
16: 0.6 / 0.21
17: 0.7 / 0.12
18: 0.8 / 0.09

CTP486 module results

Uniformity ROI details
Measured HU / Uniformity
19: 54 / 99.0%
20: 51 / 99.1%
21: 50 / 99.0%
22: 51 / 99.0%
23: 56 / 98.9%