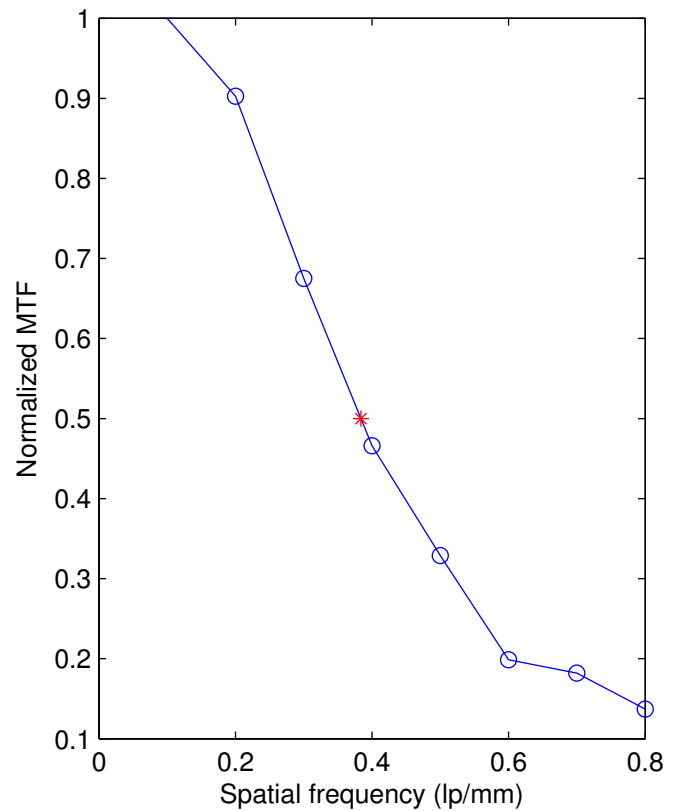# DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80
Date: November 26, 2019
Machine: Unit 5_New, #:2899
Phantom: Catphan 504
Magnification: 99.96%
Energy: 125 kV
Expected slice width: 2.0 mm
Matrix size: 512x512
Performed by: Rebecca Frederick
Tolerance set: Unit 3&5 Large FOV

Scaling discrepancy: 0.1 mm (Pass)
Geometric distortion: 0.1 mm (Pass)
Spatial resolution (50% MTF): 0.38 lp/mm (Pass)
Minimum uniformity (ROI 19): 98.9% (Pass)

CTP404 module results

Contrast ROI details
Measured HU
1: 376
2: 116

HU constancy ROI details
Reference / Measured / Difference
3 (Acrylic): 120 / 145 / 25
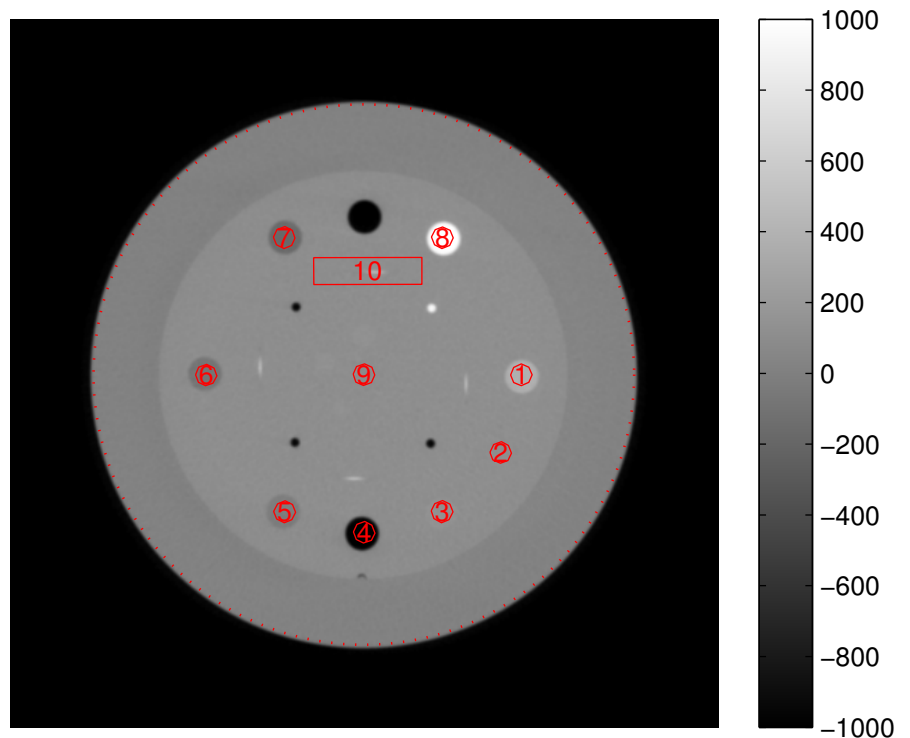4 (Air): −1000 / −996 / 4
5 (Polystyrene): −35 / −22 / 13
6 (LDPE): −100 / −79 / 21
7 (PMP): −200 / −172 / 28
8 (Teflon): 990 / 1004 / 14
9 (CTP404): 100 / 102 / 2

CTP528 module results

Spatial resolution ROI details
Phantom lp/mm / Normalized MTF
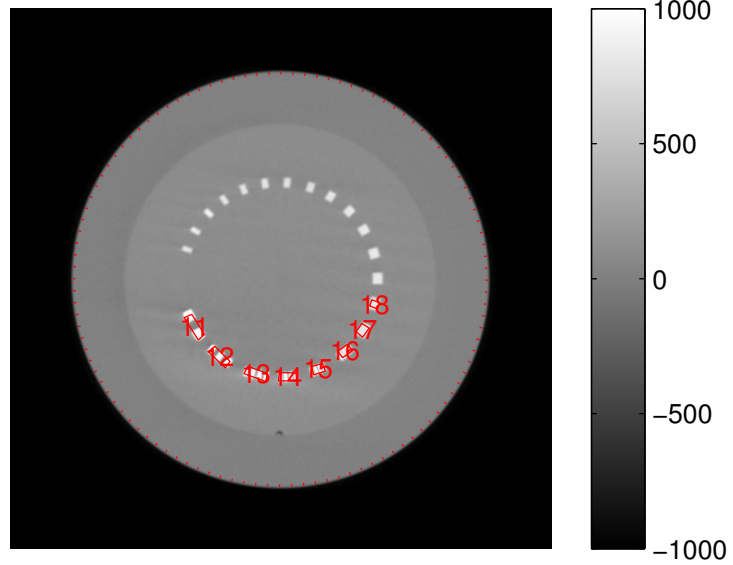11: 0.1 / 1.00
12: 0.2 / 0.90
13: 0.3 / 0.68
14: 0.4 / 0.47
15: 0.5 / 0.33
16: 0.6 / 0.20
17: 0.7 / 0.18
18: 0.8 / 0.14

CTP486 module results

Uniformity ROI details
Measured HU / Uniformity
19: 33 / 98.9%
20: 35 / 99.0%
21: 24 / 99.0%
22: 28 / 99.0%
23: 28 / 99.1%