

ACR CT Phantom - Module 4 Report

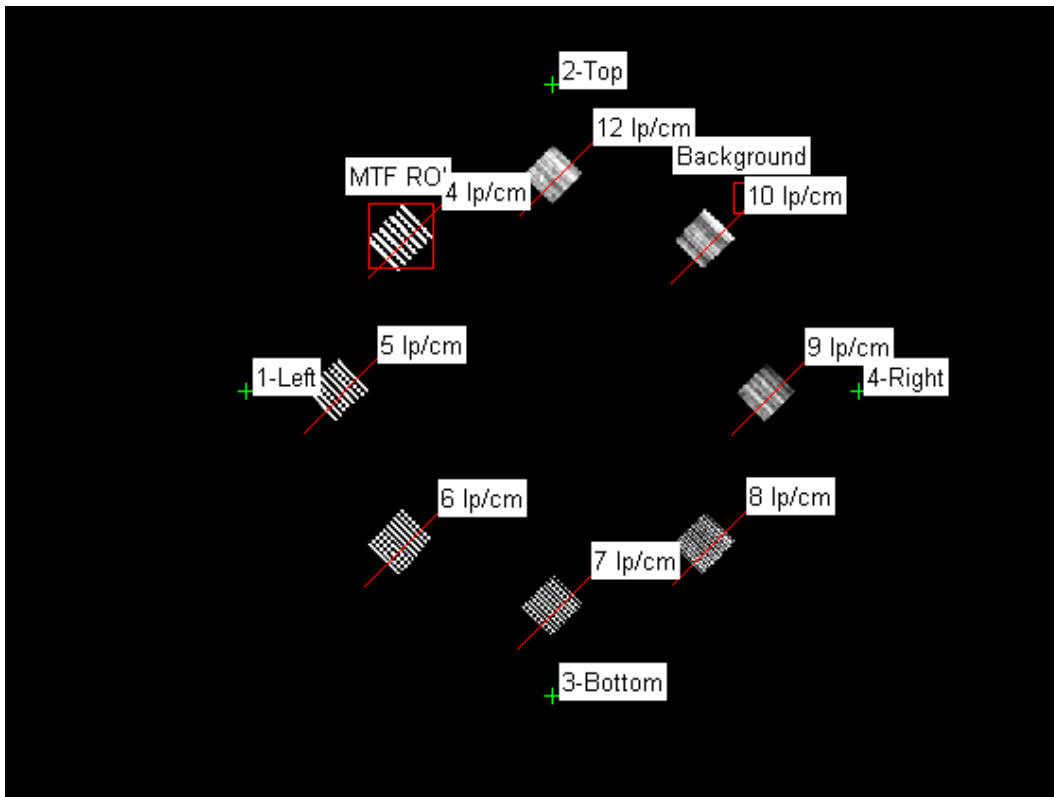
OVERALL RESULTS

<p>ALL TOLERANCES PASSING</p>	<p>ANALYSIS COMPLETE</p>
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Image Information

Filename	C:\RIT\RIT113V4\demo images_old\Radia Demo Images\ACR_CT\Module_4
Institution	Boulder Community Foothills Hosp
Station	CT01_OC0
kVp	120
mA	300
Protocol	6.1 ABDOMEN/PELVIS
Filter	BODY FILTER
Convolution Kernel	STANDARD
DICOM Slice Thickness(mm)	5
SOP Instance UID	1.2.840.113619.2.55.1.1762897610.2203.1179930891.824.25
Slice Location	120
ACR Protocol	Adult Abdomen

Analysis Image



Visibility of 5 lp/cm Lines

The 5 lp/cm lines are visible: Pass

The 5 lp/cm pattern pass/fail is informational only and does not count toward overall pass/fail status.

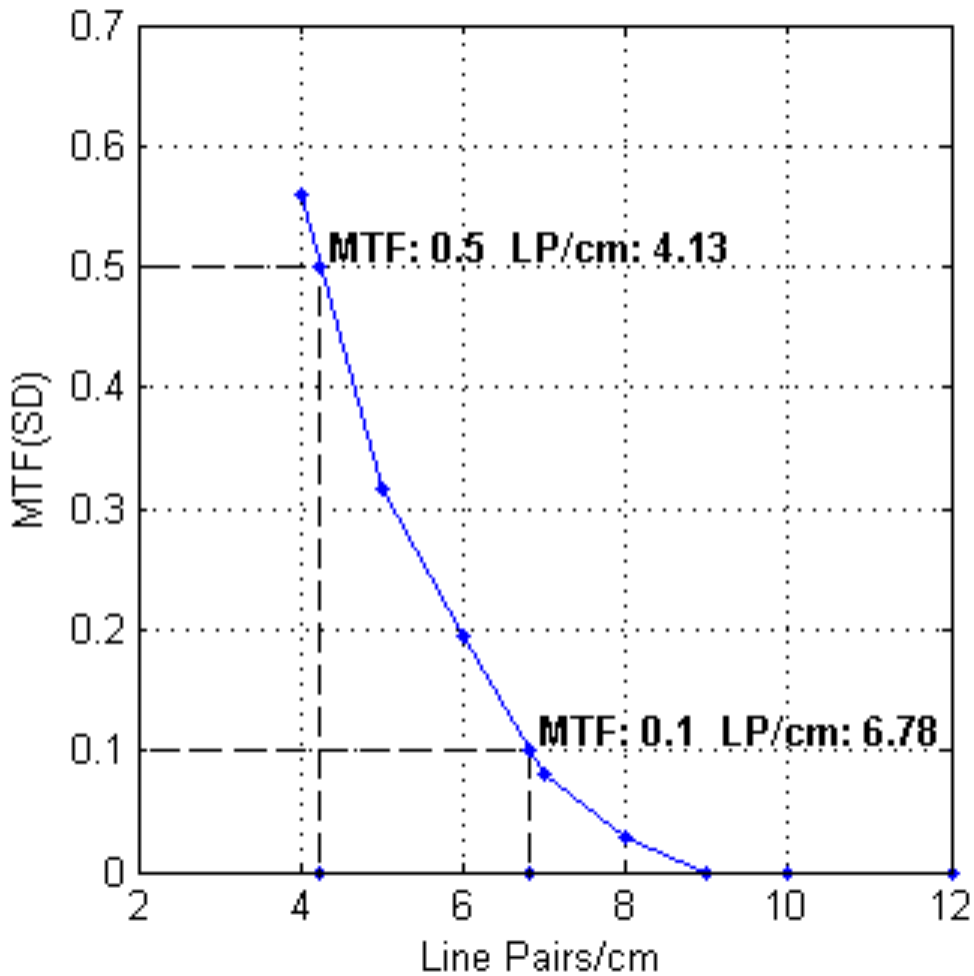
Modulation at 5 lp/cm Lines

Bar	Modulation	Maximum Nominal	Pass/Fail
5 lp/cm	621	600	Pass

MTF (Based on Standard Deviation)

Bar	MTF(SD)
4 lp/cm	0.56
5 lp/cm	0.32
6 lp/cm	0.20
7 lp/cm	0.08
8 lp/cm	0.03
9 lp/cm	0.00
10 lp/cm	0.00
12 lp/cm	0.00

MTF Curve



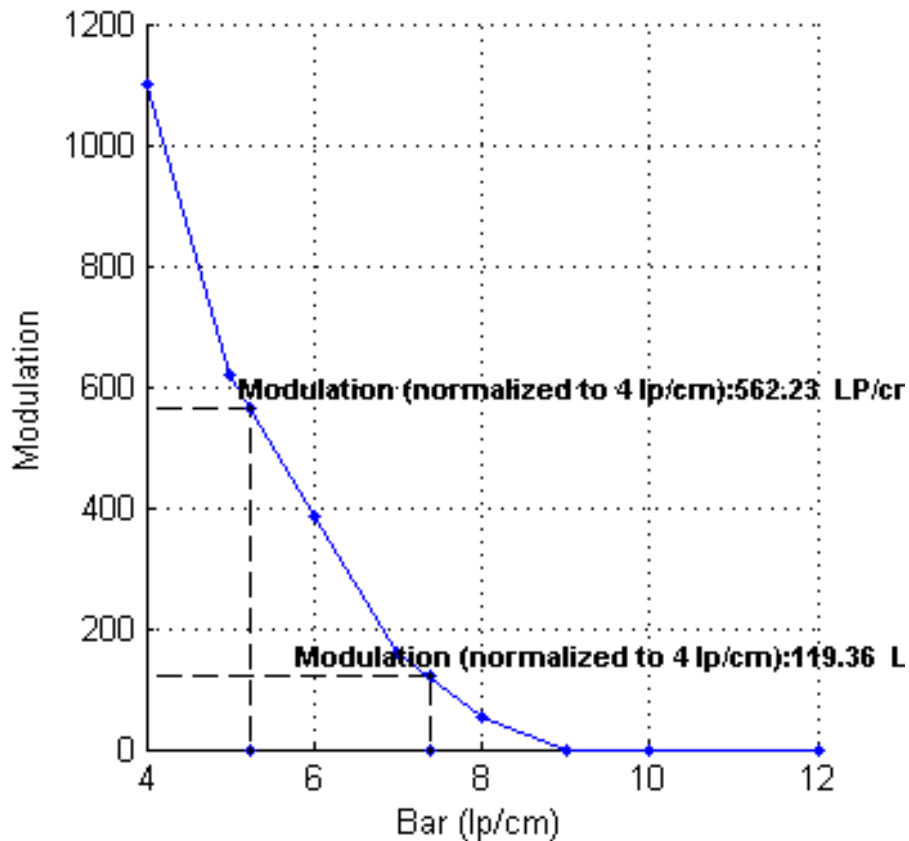
Interpolated LP

MTF	Interpolated lp/cm
0.5	4.13 lp/cm
0.1	6.78 lp/cm

Modulation

Bar	Modulation	Comments
4 lp/cm	1102.00	
5 lp/cm	621.00	
6 lp/cm	385.00	
7 lp/cm	159.00	
8 lp/cm	54.00	
9 lp/cm	0.00	Incorrect number of bars detected in this pattern.
10 lp/cm	0.00	Incorrect number of bars detected in this pattern.
12 lp/cm	0.00	Incorrect number of bars detected in this pattern.

Modulation



Interpolated LP (normalized to 4 lp/cm)

Modulation	Interpolated lp/cm
562.23	5.25
119.36	7.38

BB Measurements

Number of BBs found	4
Max. BB Area (pixels)	12
Min. BB Area (pixels)	8
Top to Bottom Distance (mm)	198.88
Left to Right Distance (mm)	198.72
Phantom Angle (degrees)	0.04

Analysis Settings

BB Threshold	2.5
Outer Radius Mask	257
Allowable Missing Bars	2