

CT AutoQA Lite v3.1.5.11

KFJ-IRO

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Varian Med: Patient Ve Serial Number: 1469
Date Tested: 04/24/2019
Study: zz-CBCT^zz-Catph
Testing Performed by: DICOM Service

Scan Parameters

Image #	kV	mA	Time (msec)	FOV(mm)	Table	Filter	Slice(mm)	Mode	File Name
1	125	60	1788	464	30.821	Ram-La	1.98	Axial	60.0001.dcm
2	125	60	1788	464	-0.994	Ram-La	1.98	Axial	Image 44.dcm
3	125	60	1788	464	-34.79	Ram-La	1.98	Axial	Image 27.dcm
4	125	60	1788	464	-74.56	Ram-La	1.98	Axial	.Image 7.dcm

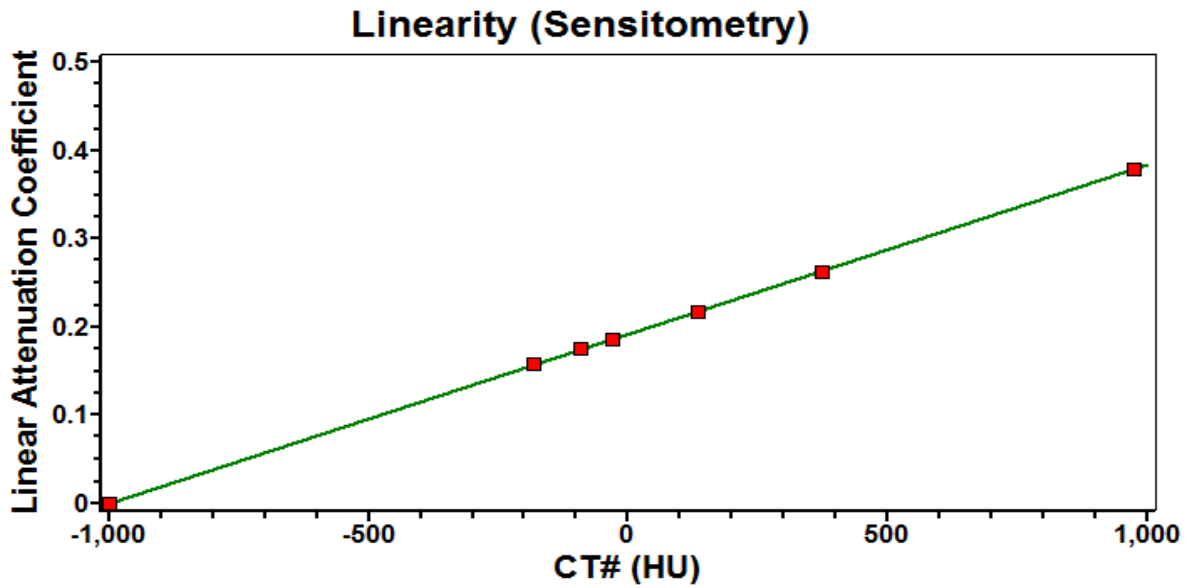
Test Results

Image #	Test	Status
Im	Verification	Phantom ID: 504 Series (Varian Trilogy) ; Orientation: 1 Phantom Center: 257, 255; CT# of Module Material : 86.48 +/- 5.39 HU
3	CNR	Cylinder Diameter (mm): Contrast (%) 15.0 9.0 8.0 7.0 6.0 5.0 1.0 1.2 0.9 0.7 0.1 0.8 0.1 0.5 0.3 0.1 0.2 0.2 0.3 0.3 0.4 0.2 0.2 0.0 0.3
2	CT # Linearity	Contrast Scale: 0.000192 Effective Energy: 68 keV R = 0.999973 Material Teflon Air LDPE Delrin Acrylic Polystyrene PMP CT# 974.1 -999.0 -91.3 373.7 134.0 -30.7 -182.1
4	Image Uniformity	Noise: +/-6.3 [Central Circular ROI @ 40% of phantom diameter] Location center 3 o'clock 6 o'clock 9 o'clock 12 o'clock ROI Center[mm] 0,0 60,0 0,-60 -60,0 0,60 Mean +/- SD 5.1 +/- 5.0 12.0 +/- 5.2 10.4 +/- 5.4 9.9 +/- 5.3 10.8 +/- 4.9 ROI Diameter(mm) 20 20 20 20 20 Diff (HU) ----- 6.9 5.4 4.8 5.8
3	Low Contrast (Model)	Contrast (%) 1.59 1.20 0.96 0.80 0.68 0.60 0.53 0.48 0.43 0.40 0.37 0.34 0.32 Detail (mm) 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.0 11.0 12.0 13.0 14.0 15.0
3	Low Contrast	Diameter of Smallest Object Visualized (mm): 4 Mean CT# over target: 67.51HU Mean CT# over Bkg: 56.54HU Measured Contrast: 10.96HU
2	Pixel Size	Expected(mm) X-Axis(mm) Y-Axis(mm) 0.91 0.89 0.89 0.89 0.89 Phantom Rotation : 0.0 degrees Phantom Center is 0.91 mm RIGHT OF CENTER and 0.91 mm ABOVE CENTER
2	Slice Thickness	Expected(mm) X-Axis(mm) Y-Axis(mm) 1.98 2.49 , 2.55 2.60 , 2.45 Avg Slice Width: 2.52 mm Ramp Angle (deg): 23.0 Table Position Offset: 3.33 mm Vertical Angle : 0.7 degrees Horizontal Angle : 0.3 degrees

Image #**Test****Status**

1	Spatial Resolution	Bead not located for PSF - Signal Level too Low
4	Uniformity Index	- X-Axis Y-Axis Uniformity Index 1.00 1.00 Profile Limit(HU): +/-10.0 (Max) Profile Width: 10 Length: 142 pixels ; 129(mm)

CT Linearity (Sensitometry)

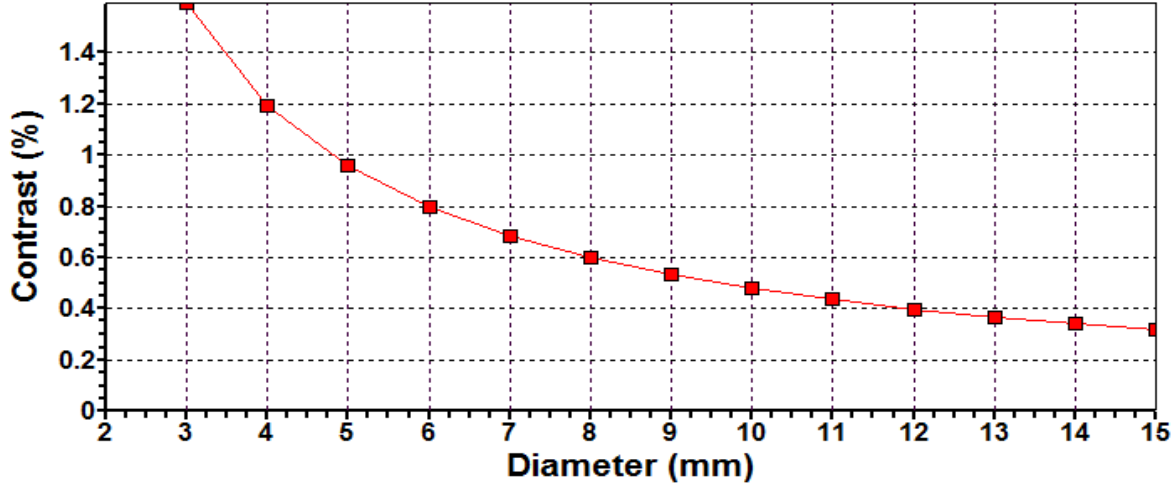


Contrast Scale: 0.000192 Intercept: -1000.9H
Teflon Air LDPE Delrin Acrylic Polysty PMP
974.1 -999.0 -91.3 373.7 134.0 -30.7 -182.1

KFJ-IR0 04/24/2019 504 Series (Varian Trilogy)
Patient Ue SN: 1469 Image #2 CT # Linearity
125kV, 60mA, 1788msec, 464.cm, Filter:Ram-Lak, 1.98mm, @ -0.994, Axial

Low Contrast Detectability

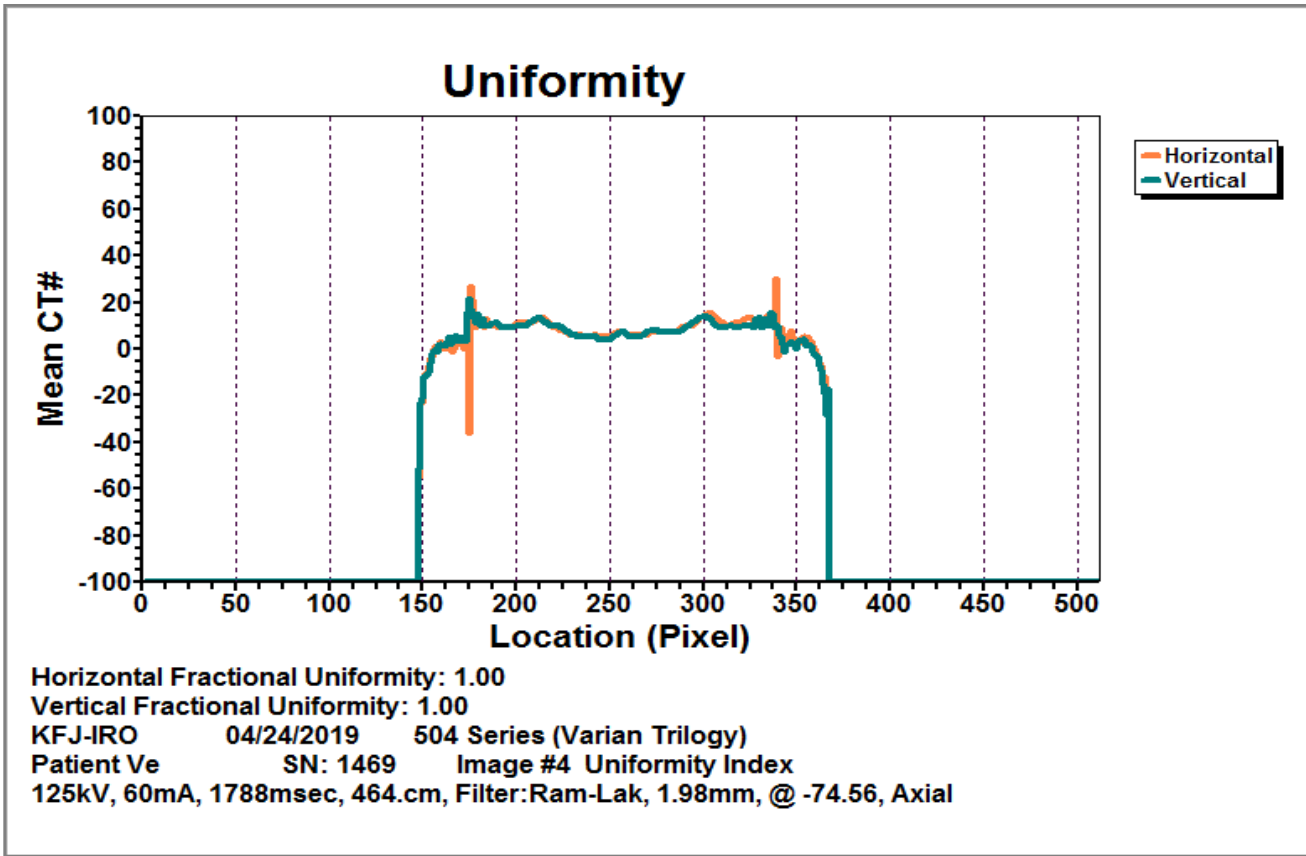
Low Contrast Model



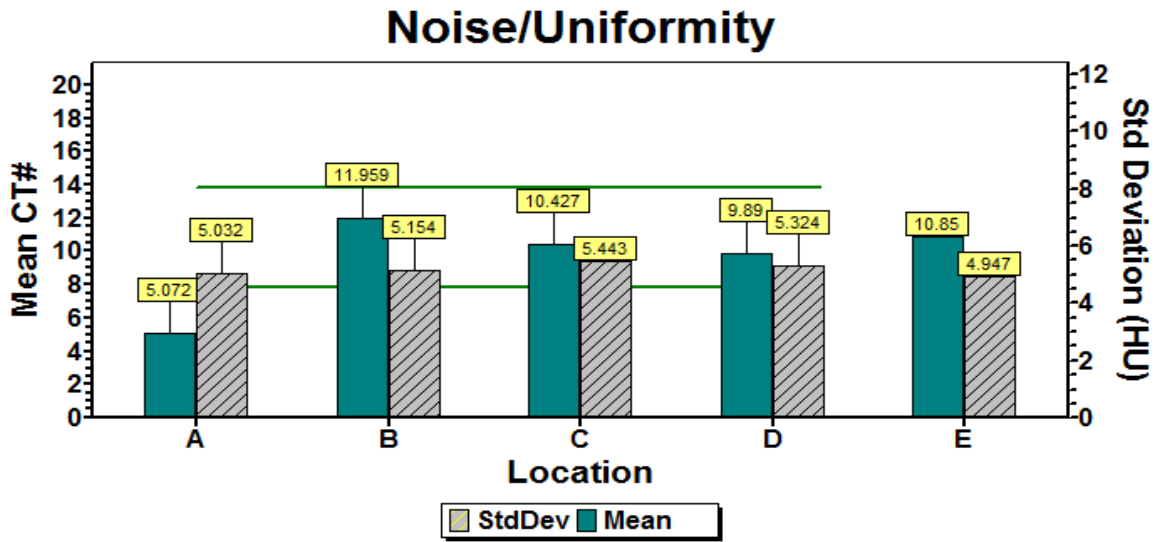
Contrast(%)	1.59	1.20	0.96	0.80	0.68	0.60	0.53	0.48	0.43	0.40	0.37	0.34	0.32
Diameter(mm)	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
Factor:	1.00												

KFJ-IRO 04/24/2019 504 Series (Varian Trilogy)
Patient Ve SN: 1469 Image #3 Low Contrast (Model)
125kV, 60mA, 1788msec, 464.cm, Filter:Ram-Lak, 1.98mm, @ -34.79, Axial

Uniformity



Noise/Uniformity



A (0,0) B (60,0) C (0,-60) D (-60,0) E (0,60)

KFJ-IRO 04/24/2019 504 Series (Varian Trilogy)
Patient Ve SN: 1469 Image #4 Image Uniformity
125kV, 60mA, 1788msec, 464.cm, Filter:Ram-Lak, 1.98mm, @ -74.56, Axial

Image #1

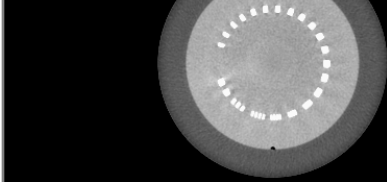


Image #2

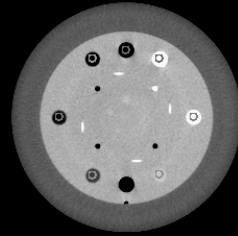


Image #3

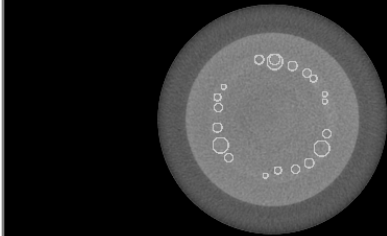


Image #4

