## Manufacturer's Recommendations for Alternate Dental CBCT QA Program Genoray: Model Papaya 3D– Papaya Plus 3D Table 6 Medical Physicist's Computed Tomography QC Survey

Item	Required Test or Procedure	Frequency	Substitute Test or Procedure	Standard	
1	Scan Increment Accuracy	Initial & Annually	None – Not Applicable	None – Not Applicable	
2	Scan Localization Light Accuracy	Initial & Annually	Technical Manual-Appendix Section 4- Alignment and Calibration Panoramic Laser Alignment Section 4.6 Step 6 Pages 22 (Appendix C)	Install 'Laser Alignment jig' on the Ball phantom and adjust laser position, refer to Figure 4.10. Align the three lasers to laser alignment jig, according to the drawings. Must align with laser	
3	Patient Dose (Multiple Scan Average Dose) MSAD or Computed	Initial & Annually	User Manual Appendix 3 X-ray exposure table & DAP	alignment jig. Reference dose tables available only.	
	Tomography Dose Index-CTDI		(Dose area product) Pages 89-93 (Appendix B)	The acceptab is 20%.	le error range
4	Pre-Patient Collimation Accuracy	Initial & Annually	Technical Manual-Appendix Section 4 -Alignment and Calibration Panoramic Collimator Alignment Section 4.7 Step 7 Pages 23	Must Pass computerized test.	
5	Contrast Scale	Initial & Annually	(Appendix C) Quality Control Test Procedure Section 3.2 Contrast Scale	Check that the Avg values are within standard value range.	
			Pages 6-7	Air	-1024 ~ 900
				LDPE Acrylic	$-180 \sim -20$ $40 \sim 200$
			(Appendix A)	Teflon	910 ~ 1070
6	CT Number for Water	Initial & Annually	Quality Control Test Procedure Section 3.3 Noise & CT Number of Acrylic Pages 8-9 (Appendix A)	Average Value 40 ~ 200 Std Value 40 ~ 100	

7	Slice Thickness	Initial &	Quality Control Test Procedure	Open the image and
/	Shee Thekness	Annually	Section 3.4	measure the length of
		Annually	Slice Thickness	phantom.
				Measured length are
			Pages 10-11	
			(A  1 - A)	within error range of
0		1.1.1.0	(Appendix A)	(±0.5mm).
8	Field Uniformity	Initial &	Quality Control Test Procedure	Average Value $40 \sim 200$
		Annually	Section 3.3	Std Value 40 ~ 100
			Noise & CT Number of Acrylic	
			Pages 8-9	
			(Appendix A)	
9	Low Contrast	Initial &	Quality Control Test Procedure	Low Contrast Resolution
	Resolution	Annually	Section 3.5	6 mm
			Spatial Resolution for High and	
			Low Contrast Object	
			Pages 12-14	
10		T '.' 1 0	(Appendix A)	
10		Initial &	Quality Control Test Procedure	Spatial Resolution 0.6 mm
	High Contrast Resolution	Annually	Section 3.5	0.6 mm
	Resolution		Spatial Resolution for High and	
			Low Contrast Object	
			Pages 12-14	
			(Appendix A)	
		Initial &	Quality Control Test Procedure	Average Value 40 ~ 200
11	Noise	Annually	Section 3.3	Std Value 40 ~ 100
			Noise & CT Number of Acrylic	
			Pages 8-9	
			(Appendix A)	
	Scan Protocol Review	Initial &	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
12		Annually		
	Review of Facility and	Initial &	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
13	Technologists QC Tests	Annually		
	Physicist Report and	Initial &	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
14	Recommendations	Annually		