Manufacturer's Recommendations for Alternate Dental CBCT QA Program J. Morita Model: Accuitomo X800 Table 6 Requirements for Dental CBCT

Item	Required Test or Procedure	Frequency	Substitute Test or Procedure	Standard
1	Scan Increment Accuracy	Initially & Annually	None – Not Applicable	None – Not Applicable
2	Scan Localization Light Accuracy	Initially & Annually	Veraview X800 Quality Test Procedure Section 3.5 CT Artifacts/ Patient Positioning Precision Page 13-16 (Appendix A)	Check that each positioning for the X, Y, Z planes is within ±3.0 mm.
3	Patient Dose (Multiple Scan Average Dose) MSAD or Computed Tomography	Initially & Annually	Veraview X800 Quality Test Procedure Section 4 CT Function Page 27 Section 7 Additional CT	DAP shall be within $\pm 50\%$ from displayed value after exposure. Repeat this test 3 times.
	Dose Index-CTDI		User Information for U.S.A. Page 28-30 (Appendix A)	CTDI100 center shall be within $\pm 30\%$ from the displayed value after exposure. Repeat this test 3 times.
4	Pre-Patient Collimation Accuracy	Initially & Annually	Veraview X800 Quality Test Procedure Section 4 CT Function Page 26 (Appendix A)	X-ray Field does not exceed the detector.
5	Contrast Scale	Initially & Annually	Veraview X800 Quality Test Procedure Section 3.2 Greyscale Page 6-9 (Appendix A)	Check that all four regions are within the acceptable range. Check that the lines do
6	CT Number for Water	Initially & Annually	Veraview X800 Quality Test Procedure Section 3.2 Greyscale Page 6-9 (Appendix A)	not overlap. Check that the value for GreyScale (SD of 5 Means) is no more than 12.5.
7	Slice Thickness	Initially & Annually	None- Not Applicable	None- Not Applicable
8	Field Uniformity	Initially & Annually	Veraview X800 Quality Test Procedure Section 3.2 Greyscale Page 6-9 (Appendix A)	Check that the value for GreyScale (SD of 5 Means) is no more than 12.5.
9	Low Contrast Resolution	Initially & Annually	Veraview X800 Quality Test Procedure CT Function Page 26 (Appendix A)	The grey level and the standard deviations of the Acrylic plastics and bone equivalent plastic shall not overlap.

10	High Contrast Resolution	Initially & Annually	Veraview X800 Quality Test Procedure Section 3.3 MTF (Modulation Transfer Function) Page 10-12 CT Function Page 26 (Appendix A)	SD resolution 10% or higher at 2.0 lp/mm. HR resolution 10% or higher at 2.5 lp/mm. The MTF value at 2.0 Lp/mm at SD Lp/mm at HR shall be more than or equal to 0.1 (10%).
11	Noise	Initially & Annually	Veraview X800 Quality Test Procedure Section 3.2 Greyscale Page 6-9 CT Function Page 26 (Appendix A)	Check that the value for Noise (SD at A) is no more than 12.5. The standard deviation of the grey scale of center region of the Contrast phantom shall be less than 12.5 (10% of the full scale).
10	Saar Drate and Davisor	Initially &	$\mathbf{S}_{\mathbf{r}} = \mathbf{N} \mathbf{I} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{C} C$	$S_{\text{res}} \sim NIAC 22.10(z)$
12	Scan Protocol Review	Annually	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
13	Review of Facility and Technologists QC Tests	Initially & Annually	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
14	Physicist Report and Recommendations	Initially & Annually	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)