APPENDIX E: SAR SYSTEM VALIDATION

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Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

	SAR System Validation Summary													
SAR	Freq.		Probe		Cond.	Perm.	CW VALIDATION			MOD. VALIDATION				
	System		Date	SN	Probe Cal Point		(σ)	(Er)	SENSITIVITY	PROBE	PROBE	MOD.	DUTY	PAR
	System						(0)	(61)	SENSITIVITY	LINEARITY	ISOTROPY	TYPE	FACTOR	PAR
	AM14	1750	10/8/2024	7308	1750	Head	1.425	38.934	PASS	PASS	PASS	N/A	N/A	N/A

Table E-1 SAR System Validation Summary

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04

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