

APPENDIX E: SAR SYSTEM VALIDATION

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.

Table E-1
SAR System Validation Summary

SAR System	Freq. (MHz)	Date	Probe SN	DAE	Probe Cal Point		Cond. (σ)	Perm. (ε _r)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
C	150	09/12/2023	3914	728	150	Head	0.772	50.767	PASS	PASS	PASS	N/A	N/A	N/A
C	300	09/12/2023	3914	728	300	Head	0.895	44.287	PASS	PASS	PASS	N/A	N/A	N/A
C	450	09/19/2023	3914	728	450	Head	0.835	43.742	PASS	PASS	PASS	N/A	N/A	N/A
C	600	09/19/2023	3914	728	600	Head	0.881	43.133	PASS	PASS	PASS	N/A	N/A	N/A
E	900	09/18/2023	7406	1677	900	Head	0.930	41.737	PASS	PASS	PASS	N/A	N/A	N/A
C	1450	08/31/2023	3914	728	1450	Head	1.173	39.533	PASS	PASS	PASS	N/A	N/A	N/A
C	2450	08/11/2023	7661	728	2450	Head	1.791	39.556	PASS	PASS	PASS	OFDM/TDD	PASS	PASS

NOTE: The probes have been calibrated for both CW and modulated signals. 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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DUT Type: Portable Wireless Microphone		APPENDIX E: Page 1 of 1