

APPENDIX G: 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 G-1
SAR System Validation Summary

SAR System	Freq. (MHz)	Date	Probe SN	DAE	Probe Cal Point		Cond. (σ)	Perm. (εr)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
N	2450	01/16/2025	7410	1213	2450	Head	1.860	38.829	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
C	2450	02/19/2025	7713	1530	2450	Head	1.842	39.147	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
G	2450	04/09/2025	7488	1415	2450	Head	1.867	39.580	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S	5250	07/19/2024	7803	1583	5250	Head	4.685	35.198	PASS	PASS	PASS	OFDM	N/A	PASS
O	5250	06/20/2025	7718	1407	5250	Head	4.578	34.515	PASS	PASS	PASS	OFDM	N/A	PASS
S	5600	07/19/2024	7803	1583	5600	Head	5.085	34.550	PASS	PASS	PASS	OFDM	N/A	PASS
O	5600	06/20/2025	7718	1407	5600	Head	4.965	33.896	PASS	PASS	PASS	OFDM	N/A	PASS
S	5750	07/19/2024	7803	1583	5750	Head	5.262	34.250	PASS	PASS	PASS	OFDM	N/A	PASS
O	5750	06/18/2025	7718	1407	5750	Head	5.342	33.876	PASS	PASS	PASS	OFDM	N/A	PASS
S	5850	07/19/2024	7803	1583	5850	Head	5.380	34.060	PASS	PASS	PASS	OFDM	N/A	PASS
O	5850	06/18/2025	7718	1407	5850	Head	5.465	33.673	PASS	PASS	PASS	OFDM	N/A	PASS
R	6500	02/27/2025	7570	1638	6500	Head	5.868	34.355	PASS	PASS	PASS	OFDM	N/A	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 Computing Device		APPENDIX G: Page 1 of 1