

APPENDIX F: 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 F-1
SAR System Validation Summary – 1g

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
AM11	2450	05/06/2025	7551	1323	2450	Head	1.838	39.533	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM9	5250	10/03/2024	7782	1646	5250	Head	4.859	37.517	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5250	01/29/2025	7499	1465	5250	Head	4.564	35.045	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5600	10/03/2024	7782	1646	5600	Head	5.238	36.979	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5600	01/29/2025	7499	1465	5600	Head	4.934	34.461	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5750	10/03/2024	7782	1646	5750	Head	5.409	36.748	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5750	01/29/2025	7499	1465	5750	Head	5.102	34.237	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5850	10/04/2024	7782	1646	5850	Head	5.514	36.616	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5850	02/03/2025	7499	1465	5850	Head	5.288	34.605	PASS	PASS	PASS	OFDM	N/A	PASS

Table F-2
SAR System Validation Summary – 10g

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
AM14	13	04/25/2025	3746	1237	13	Head	0.756	52.745	PASS	PASS	PASS	N/A	N/A	N/A
AM11	2450	05/06/2025	7551	1323	2450	Head	1.838	39.533	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM16	2450	05/08/2025	7532	501	2450	Head	1.796	39.017	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM9	5250	10/03/2024	7782	1646	5250	Head	4.859	37.517	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5600	10/03/2024	7782	1646	5600	Head	5.238	36.979	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5750	10/03/2024	7782	1646	5750	Head	5.409	36.748	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5850	10/04/2024	7782	1646	5850	Head	5.514	36.616	PASS	PASS	PASS	OFDM	N/A	PASS

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.

FCC ID: BCG-A3331	RF EXPOSURE REPORT	Approved by: Technical Manager
DUT Type: Watch		APPENDIX F: Page 1 of 1