

APPENDIX G: SAR SYSTEM VALIDATION

FCC ID: BCG-A3328	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Watch		APPENDIX G: Page 1 of 2

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 – 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
AM1	750	05/07/2025	7357	1582	750	Head	0.878	42.823	PASS	PASS	PASS	N/A	N/A	N/A
AM10	750	03/27/2025	3837	793	750	Head	0.865	41.195	PASS	PASS	PASS	N/A	N/A	N/A
AM12	835	02/26/2025	7427	1408	835	Head	0.839	41.575	PASS	PASS	PASS	GMSK	PASS	N/A
AM14	1750	02/28/2025	3746	1237	1750	Head	1.343	41.904	PASS	PASS	PASS	N/A	N/A	N/A
AM7	1750	02/27/2025	7490	1644	1750	Head	1.369	38.469	PASS	PASS	PASS	N/A	N/A	N/A
AM15	1900	03/27/2025	7638	467	1900	Head	1.438	39.917	PASS	PASS	PASS	GMSK	PASS	N/A
AM14	2450	02/28/2025	3746	1237	2450	Head	1.858	40.424	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM1	2450	05/08/2025	7357	1582	2450	Head	1.803	39.990	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM14	2600	02/28/2025	3746	1237	2600	Head	2.019	39.892	PASS	PASS	PASS	TDD	PASS	N/A
AM1	2600	05/07/2025	7357	1582	2600	Head	1.920	39.752	PASS	PASS	PASS	TDD	PASS	N/A

Table G-2
SAR System Validation Summary – 10g

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
AM14	13	04/25/2025	3746	1237	13	Head	0.756	52.745	PASS	PASS	PASS	N/A	N/A	N/A
AM1	750	05/07/2025	7357	1582	750	Head	0.878	42.823	PASS	PASS	PASS	N/A	N/A	N/A
AM10	750	03/27/2025	3837	793	750	Head	0.865	41.195	PASS	PASS	PASS	N/A	N/A	N/A
AM12	835	02/26/2025	7427	1408	835	Head	0.839	41.575	PASS	PASS	PASS	GMSK	PASS	N/A
AM11	1750	05/07/2025	7551	1323	1750	Head	1.332	40.326	PASS	PASS	PASS	N/A	N/A	N/A
AM15	1900	03/27/2025	7638	467	1900	Head	1.438	39.917	PASS	PASS	PASS	GMSK	PASS	N/A
AM1	2450	05/08/2025	7357	1582	2450	Head	1.803	39.990	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM14	2450	02/28/2025	3746	1237	2450	Head	1.858	40.424	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM10	2450	03/27/2025	3837	793	2450	Head	1.818	38.427	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM1	2600	05/07/2025	7357	1582	2600	Head	1.920	39.752	PASS	PASS	PASS	TDD	PASS	N/A
AM11	2600	05/06/2025	7551	1323	2600	Head	1.968	39.308	PASS	PASS	PASS	TDD	PASS	N/A
AM10	2600	03/27/2025	3837	793	2600	Head	1.992	37.815	PASS	PASS	PASS	TDD	PASS	N/A

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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