

APPENDIX G: SAR SYSTEM VALIDATION

FCC ID: BCG-A3281	RF EXPOSURE REPORT	Approved by: Technical Manager
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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.

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	5/7/2025	7357	1582	750	Head	0.878	42.823	PASS	PASS	PASS	N/A	N/A	N/A
AM12	835	2/26/2025	7427	1408	835	Head	0.839	41.575	PASS	PASS	PASS	GMSK	PASS	N/A
AM12	1750	2/26/2025	7427	1408	1750	Head	1.381	39.56	PASS	PASS	PASS	N/A	N/A	N/A
AM15	1900	3/27/2025	7638	467	1900	Head	1.438	39.917	PASS	PASS	PASS	GMSK	PASS	N/A
AM14	2450	2/28/2025	3746	1237	2450	Head	1.858	40.424	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM16	2450	5/8/2025	7532	501	2450	Head	1.796	39.017	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM11	2450	5/6/2025	7551	1323	2450	Head	1.838	39.533	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM14	2600	2/28/2025	3746	1237	2600	Head	2.019	39.892	PASS	PASS	PASS	TDD	PASS	N/A
AM8	5250	1/29/2025	7499	1465	5250	Head	4.564	35.045	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5600	1/29/2025	7499	1465	5600	Head	4.934	34.461	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5750	1/29/2025	7499	1465	5750	Head	5.102	34.237	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5850	2/3/2025	7499	1465	5850	Head	5.288	34.605	PASS	PASS	PASS	OFDM	N/A	PASS

Table G-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	4/25/2025	3746	1237	13	Head	0.756	52.745	PASS	PASS	PASS	N/A	N/A	N/A
AM1	750	5/7/2025	7357	1582	750	Head	0.878	42.823	PASS	PASS	PASS	N/A	N/A	N/A
AM12	835	2/26/2025	7427	1408	835	Head	0.839	41.575	PASS	PASS	PASS	GMSK	PASS	N/A
AM12	1640	7/2/2025	7427	1408	1640	Head	1.262	39.084	PASS	PASS	PASS	N/A	N/A	N/A
AM12	1750	2/26/2025	7427	1408	1750	Head	1.381	39.56	PASS	PASS	PASS	N/A	N/A	N/A
AM15	1900	3/27/2025	7638	467	1900	Head	1.438	39.917	PASS	PASS	PASS	GMSK	PASS	N/A
AM14	2450	2/28/2025	3746	1237	2450	Head	1.858	40.424	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM16	2450	5/8/2025	7532	501	2450	Head	1.796	39.017	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM14	2600	2/28/2025	3746	1237	2600	Head	2.019	39.892	PASS	PASS	PASS	TDD	PASS	N/A
AM8	5250	1/29/2025	7499	1465	5250	Head	4.564	35.045	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5600	1/29/2025	7499	1465	5600	Head	4.934	34.461	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5750	1/29/2025	7499	1465	5750	Head	5.102	34.237	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5850	2/3/2025	7499	1465	5850	Head	5.288	34.605	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.

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