

APPENDIX H: 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 H-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
AM14	13	11/18/2025	7782	1646	13	Head	0.761	52.998	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
AM11	835	05/07/2025	7551	1323	835	Head	0.929	41.959	PASS	PASS	PASS	GMSK	PASS	N/A
AM13	1750	05/06/2025	7421	604	1750	Head	1.336	40.627	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
AM13	1900	05/05/2025	7421	604	1900	Head	1.455	38.732	PASS	PASS	PASS	GMSK	PASS	N/A
AM10	2300	08/01/2025	7416	701	2300	Head	1.662	39.366	PASS	PASS	PASS	N/A	N/A	N/A
AM7	2450	02/27/2025	7490	1644	2450	Head	1.873	38.512	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
AM7	2450	12/10/2025	7420	1408	2450	Head	1.790	39.449	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM7	2600	02/27/2025	7490	1644	2600	Head	2.040	37.880	PASS	PASS	PASS	TDD	PASS	N/A
AM7	2600	12/10/2025	7420	1408	2600	Head	1.913	39.073	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3500	03/27/2025	7360	534	3500	Head	2.826	36.835	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3500	08/03/2025	7552	1676	3500	Head	2.799	37.385	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3700	03/27/2025	7360	534	3700	Head	2.996	36.550	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3700	08/03/2025	7552	1676	3700	Head	2.991	37.017	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3900	03/27/2025	7360	534	3900	Head	3.175	36.285	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3900	08/03/2025	7552	1676	3900	Head	3.187	36.684	PASS	PASS	PASS	TDD	PASS	N/A
AM8	5250	01/29/2025	7499	1465	5250	Head	4.564	35.045	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5250	08/25/2025	7668	1681	5250	Head	4.519	37.298	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	5600	08/25/2025	7668	1681	5600	Head	4.915	36.659	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	5750	08/25/2025	7668	1681	5750	Head	5.083	36.373	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
AM9	5850	08/25/2025	7668	1681	5850	Head	5.202	36.194	PASS	PASS	PASS	OFDM	N/A	PASS
AM2	6500	08/28/2025	3837	793	6500	Head	5.849	34.980	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 D01v01r0