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

System Validation													
SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (εr)	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM3	750	3/30/2022	7427	750	Head	0.884	41.319	PASS	PASS	PASS	N/A	N/A	N/A
AM3	835	8/21/2022	7427	835	Head	0.898	42.800	PASS	PASS	PASS	GMSK	PASS	N/A
AM3	1900	3/30/2022	7427	1900	Head	1.420	40.200	PASS	PASS	PASS	GMSK	PASS	N/A
AM3	2300	4/1/2022	7427	2300	Head	1.680	39.700	PASS	PASS	PASS	N/A	N/A	N/A
AM3	3500	4/4/2022	7427	3500	Head	2.940	38.400	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3700	4/4/2022	7427	3700	Head	3.120	38.100	PASS	PASS	PASS	TDD	PASS	N/A

NOTE: 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