APPENDIX G: 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 G-1
SAR System Validation Summary

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
G	13	02/28/2023	7417	665	13	Head	0.745	55.517	PASS	PASS	PASS	N/A	N/A	N/A
K4	750	03/07/2023	7640	1645	750	Head	0.897	42.373	PASS	PASS	PASS	N/A	N/A	N/A
K1	750	07/10/2023	7402	1502	750	Head	0.871	43.590	PASS	PASS	PASS	N/A	N/A	N/A
K5	835	06/08/2023	7637	1652	835	Head	0.911	42.522	PASS	PASS	PASS	GMSK	PASS	N/A
K1	835	07/10/2023	7402	1502	835	Head	0.897	43.370	PASS	PASS	PASS	GMSK	PASS	N/A
K3	1750	11/30/2022	7547	1322	1750	Head	1.324	40.565	PASS	PASS	PASS	N/A	N/A	N/A
G	1750	03/01/2023	7417	665	1750	Head	1.391	42.032	PASS	PASS	PASS	N/A	N/A	N/A
K2	1750	09/22/2023	7565	1466	1750	Head	1.315	41.861	PASS	PASS	PASS	N/A	N/A	N/A
S	1900	02/17/2023	7713	1530	1900	Head	1.410	38.557	PASS	PASS	PASS	GMSK	PASS	N/A
AM8	1900	03/31/2023	7421	604	1900	Head	1.431	41.278	PASS	PASS	PASS	GMSK	PASS	N/A
AM6	1900	07/31/2023	7638	1408	1900	Head	1.373	39.924	PASS	PASS	PASS	GMSK	PASS	N/A
P	1900	08/03/2023	7659	1407	1900	Head	1.433	38.900	PASS	PASS	PASS	GMSK	PASS	N/A
K3	2450	12/06/2022	7547	1322	2450	Head	1.786	37.965	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2450	02/08/2023	7570	1558	2450	Head	1.839	38.743	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S	2450	03/17/2023	7713	1530	2450	Head	1.762	38.757	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K3	2600	12/06/2022	7547	1322	2600	Head	1.904	37.727	PASS	PASS	PASS	TDD	PASS	N/A
K2	2600	09/25/2023	7565	1466	2600	Head	1.900	39.883	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3500	01/09/2023	7490	1644	3500	Head	2.921	37.328	PASS	PASS	PASS	TDD	PASS	N/A
AM6	3500	05/24/2023	7638	1408	3500	Head	2.794	39.657	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3700	01/09/2023	7490	1644	3700	Head	3.082	37.064	PASS	PASS	PASS	TDD	PASS	N/A
AM6	3700	05/25/2023	7638	1408	3700	Head	2.991	39.276	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3900	01/23/2023	7490	1644	3900	Head	3.231	37.333	PASS	PASS	PASS	TDD	PASS	N/A
AM6	3900	05/25/2023	7638	1408	3900	Head	3.196	38.927	PASS	PASS	PASS	TDD	PASS	N/A
O	5250	02/16/2023	7570	1558	5250	Head	4.531	35.226	PASS	PASS	PASS	OFDM	N/A	PASS
G	5250	02/27/2023	7417	665	5250	Head	4.813	36.527	PASS	PASS	PASS	OFDM	N/A	PASS
O	5600	02/16/2023	7570	1558	5600	Head	4.926	34.639	PASS	PASS	PASS	OFDM	N/A	PASS
G	5600	02/28/2023	7417	665	5600	Head	5.235	35.880	PASS	PASS	PASS	OFDM	N/A	PASS
O	5750	02/16/2023	7570	1558	5750	Head	5.077	34.397	PASS	PASS	PASS	OFDM	N/A	PASS
G	5750	02/28/2023	7417	665	5750	Head	5.419	35.830	PASS	PASS	PASS	OFDM	N/A	PASS
O	5800	02/20/2023	7570	1558	5850	Head	5.237	33.586	PASS	PASS	PASS	OFDM	N/A	PASS
G	5800	02/28/2023	7417	665	5850	Head	5.454	35.742	PASS	PASS	PASS	OFDM	N/A	PASS
AM7	6500	05/01/2023	7532	501	6500	Head	6.347	33.690	PASS	PASS	PASS	OFDM	N/A	PASS
H	6500	06/08/2023	7718	1368	6500	Head	6.086	34.351	PASS	PASS	PASS	OFDM	N/A	PASS
AM7	8000	08/07/2023	7532	501	8000	Head	7.805	31.522	PASS	PASS	PASS	N/A	N/A	N/A

NOTE: The probes have been calibrated for both CW and modulated signals. 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.