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
J	750	04/25/2024	7670	1449	750	Head	0.877	42.882	PASS	PASS	PASS	N/A	N/A	N/A
Q	750	05/31/2024	7539	1639	750	Head	0.865	41.575	PASS	PASS	PASS	N/A	N/A	N/A
O	750	06/26/2024	3914	728	750	Head	0.862	41.319	PASS	PASS	PASS	N/A	N/A	N/A
J	835	03/01/2024	7670	1449	835	Head	0.885	43.534	PASS	PASS	PASS	GMSK	PASS	N/A
Q	835	05/30/2024	7539	1639	835	Head	0.888	41.271	PASS	PASS	PASS	GMSK	PASS	N/A
O	835	06/24/2024	3914	728	835	Head	0.890	40.626	PASS	PASS	PASS	GMSK	PASS	N/A
J	1750	03/01/2024	7670	1449	1750	Head	1.355	41.717	PASS	PASS	PASS	N/A	N/A	N/A
S	1750	04/24/2024	7527	1272	1750	Head	1.311	40.024	PASS	PASS	PASS	N/A	N/A	N/A
P	1750	05/15/2024	7718	665	1750	Head	1.323	39.515	PASS	PASS	PASS	N/A	N/A	N/A
J	1900	03/01/2024	7670	1449	1900	Head	1.451	41.498	PASS	PASS	PASS	GMSK	PASS	N/A
S	1900	04/19/2024	7527	1272	1900	Head	1.396	39.756	PASS	PASS	PASS	GMSK	PASS	N/A
P	1900	05/15/2024	7718	665	1900	Head	1.414	39.331	PASS	PASS	PASS	GMSK	PASS	N/A
J	2300	03/06/2024	7670	1449	2300	Head	1.734	39.020	PASS	PASS	PASS	N/A	N/A	N/A
G	2300	04/23/2024	7713	1530	2300	Head	1.649	39.308	PASS	PASS	PASS	N/A	N/A	N/A
O	2300	06/05/2024	3914	728	2300	Head	1.713	38.049	PASS	PASS	PASS	N/A	N/A	N/A
G	2450	03/15/2024	7713	1530	2450	Head	1.873	39.569	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K4	2450	03/25/2024	7565	1466	2450	Head	1.871	39.952	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H	2450	04/03/2024	7488	1415	2450	Head	1.804	40.365	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2450	06/05/2024	3914	728	2450	Head	1.827	37.860	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K3	2600	10/12/2023	7558	1364	2600	Head	1.971	40.757	PASS	PASS	PASS	TDD	PASS	N/A
J	2600	03/08/2024	7670	1449	2600	Head	1.927	38.113	PASS	PASS	PASS	TDD	PASS	N/A
H	2600	04/05/2024	7488	1415	2600	Head	1.935	40.141	PASS	PASS	PASS	TDD	PASS	N/A
G	2600	04/23/2024	7713	1530	2600	Head	1.891	38.822	PASS	PASS	PASS	TDD	PASS	N/A
O	2600	06/05/2024	3914	728	2600	Head	1.937	37.677	PASS	PASS	PASS	TDD	PASS	N/A
K3	3500	12/04/2023	7558	1364	3500	Head	2.789	38.147	PASS	PASS	PASS	TDD	PASS	N/A
K4	3500	02/01/2024	7565	1466	3500	Head	2.779	37.929	PASS	PASS	PASS	TDD	PASS	N/A
H	3500	04/18/2024	7488	1415	3500	Head	2.772	38.571	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	06/12/2024	7660	1678	3500	Head	2.818	39.229	PASS	PASS	PASS	TDD	PASS	N/A
K3	3700	12/04/2023	7558	1364	3700	Head	2.975	37.806	PASS	PASS	PASS	TDD	PASS	N/A
K4	3700	02/02/2024	7565	1466	3700	Head	3.019	38.076	PASS	PASS	PASS	TDD	PASS	N/A
H	3700	04/18/2024	7488	1415	3700	Head	2.962	38.310	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	06/12/2024	7660	1678	3700	Head	3.012	38.863	PASS	PASS	PASS	TDD	PASS	N/A
H	3900	04/18/2024	7488	1415	3900	Head	3.171	37.884	PASS	PASS	PASS	TDD	PASS	N/A
L	3900	06/12/2024	7660	1678	3900	Head	3.220	38.526	PASS	PASS	PASS	TDD	PASS	N/A
G	5250	01/31/2024	7713	1530	5250	Head	4.510	36.500	PASS	PASS	PASS	OFDM	N/A	PASS
K2	5250	02/19/2024	7547	1322	5250	Head	4.606	35.108	PASS	PASS	PASS	OFDM	N/A	PASS
G	5600	01/31/2024	7713	1530	5600	Head	4.960	35.700	PASS	PASS	PASS	OFDM	N/A	PASS
K2	5600	02/19/2024	7547	1322	5600	Head	5.006	34.452	PASS	PASS	PASS	OFDM	N/A	PASS
G	5750	01/31/2024	7713	1530	5750	Head	5.070	35.500	PASS	PASS	PASS	OFDM	N/A	PASS
K2	5750	02/19/2024	7547	1322	5750	Head	5.182	34.162	PASS	PASS	PASS	OFDM	N/A	PASS
G	5850	01/31/2024	7713	1530	5850	Head	5.180	35.300	PASS	PASS	PASS	OFDM	N/A	PASS
K2	5850	02/19/2024	7547	1322	5750	Head	5.291	34.027	PASS	PASS	PASS	OFDM	N/A	PASS
R	6500	02/12/2024	7410	1638	6500	Head	6.212	34.041	PASS	PASS	PASS	OFDM	N/A	PASS
C	6500	06/20/2024	7659	1407	6500	Head	6.128	34.321	PASS	PASS	PASS	OFDM	N/A	PASS

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.