

## 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 - Head**

SAR System	Freq. (MHz)	Date	Probe SN	DAE	Probe Cal Point		Cond. (σ)	Perm. (ε <sub>r</sub> )	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
K5	750	06/07/2023	7637	1652	750	Head	0.878	42.335	PASS	PASS	PASS	N/A	N/A	N/A
C	835	08/09/2022	7406	1677	835	Head	0.943	41.102	PASS	PASS	PASS	GMSK	PASS	N/A
S	835	02/17/2023	7713	1530	835	Head	0.906	40.398	PASS	PASS	PASS	GMSK	PASS	N/A
K4	835	03/07/2023	7640	1645	835	Head	0.929	42.096	PASS	PASS	PASS	GMSK	PASS	N/A
K5	835	06/08/2023	7637	1652	835	Head	0.911	42.522	PASS	PASS	PASS	GMSK	PASS	N/A
L	1750	08/10/2022	7410	1583	1750	Head	1.369	40.751	PASS	PASS	PASS	N/A	N/A	N/A
K3	1750	11/30/2022	7547	1322	1750	Head	1.324	40.565	PASS	PASS	PASS	N/A	N/A	N/A
D	1750	12/01/2022	7551	1323	1750	Head	0.873	40.532	PASS	PASS	PASS	N/A	N/A	N/A
K2	1750	02/20/2023	7565	1466	1750	Head	1.321	40.030	PASS	PASS	PASS	N/A	N/A	N/A
L	1900	08/10/2022	7410	1583	1900	Head	1.460	40.503	PASS	PASS	PASS	GMSK	PASS	N/A
K3	1900	11/30/2022	7547	1322	1900	Head	1.417	40.368	PASS	PASS	PASS	GMSK	PASS	N/A
O	1900	02/09/2023	7570	1558	1900	Head	1.444	39.547	PASS	PASS	PASS	GMSK	PASS	N/A
K2	1900	02/20/2023	7565	1466	1900	Head	1.407	39.834	PASS	PASS	PASS	GMSK	PASS	N/A
L	1900	07/12/2023	7409	1334	1900	Head	1.385	39.089	PASS	PASS	PASS	GMSK	PASS	N/A
C	2300	08/10/2022	7406	1677	2300	Head	1.691	38.091	PASS	PASS	PASS	N/A	N/A	N/A
O	2300	02/08/2023	7570	1558	2300	Head	1.670	38.949	PASS	PASS	PASS	N/A	N/A	N/A
S	2300	02/20/2023	7713	1530	2300	Head	1.643	38.278	PASS	PASS	PASS	N/A	N/A	N/A
O	2450	02/08/2023	7570	1558	2450	Head	1.839	38.743	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K2	2450	02/21/2023	7565	1466	2450	Head	1.817	39.941	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
AM3	2600	02/07/2023	3837	793	2600	Head	1.920	37.268	PASS	PASS	PASS	TDD	PASS	N/A
O	2600	02/08/2023	7570	1558	2600	Head	1.960	38.481	PASS	PASS	PASS	TDD	PASS	N/A
K2	2600	02/22/2023	7565	1466	2600	Head	1.931	39.782	PASS	PASS	PASS	TDD	PASS	N/A
C	3500	08/12/2022	7406	1677	3500	Head	2.829	37.515	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
C	3700	08/12/2022	7406	1677	3700	Head	3.016	37.068	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
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

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.

FCC ID: A3LSMS711U	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX G: Page 1 of 1