

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. (ε _r)	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
K3	750	11/30/2022	7547	1322	750	Head	0.870	42.453	PASS	PASS	PASS	N/A	N/A	N/A
K2	750	02/20/2023	7565	1466	750	Head	0.880	41.861	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
C	835	08/09/2023	7661	728	835	Head	0.868	41.958	PASS	PASS	PASS	GMSK	PASS	N/A
K2	835	09/22/2023	7565	1466	835	Head	0.902	43.520	PASS	PASS	PASS	GMSK	PASS	N/A
G	1750	03/01/2023	7417	665	1750	Head	1.391	42.032	PASS	PASS	PASS	N/A	N/A	N/A
C	1750	06/30/2023	7661	728	1750	Head	1.334	38.293	PASS	PASS	PASS	N/A	N/A	N/A
L	1750	07/05/2023	7409	1334	1750	Head	1.313	40.692	PASS	PASS	PASS	N/A	N/A	N/A
K4	1750	09/25/2023	7640	1645	1750	Head	1.382	38.782	PASS	PASS	PASS	N/A	N/A	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
K2	1900	09/22/2023	7565	1466	1900	Head	1.401	41.624	PASS	PASS	PASS	GMSK	PASS	N/A
S	2300	02/20/2023	7713	1530	2300	Head	1.643	38.278	PASS	PASS	PASS	N/A	N/A	N/A
AM9	2300	02/21/2023	7427	1403	2300	Head	1.731	39.920	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
AM9	2450	02/28/2023	7427	1403	2450	Head	1.870	39.800	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
L	2450	07/05/2023	7409	1334	2450	Head	1.787	39.700	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K2	2450	09/22/2023	7565	1466	2450	Head	1.794	41.148	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM9	2600	02/23/2023	7427	1403	2600	Head	2.000	39.000	PASS	PASS	PASS	TDD	PASS	N/A
S	2600	03/17/2023	7713	1530	2600	Head	1.882	38.559	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
K3	2600	10/12/2023	7558	1364	2600	Head	1.971	40.757	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
L	3500	06/27/2023	7409	1334	3500	Head	2.778	39.142	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
L	3700	06/27/2023	7409	1334	3700	Head	2.968	38.811	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
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

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.

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DUT Type: Portable Handset		APPENDIX G: Page 1 of 1