

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
K4	750	3/7/2023	7640	1645	750	Head	0.897	42.373	PASS	PASS	PASS	N/A	N/A	N/A
K6	835	10/11/2023	7491	1532	835	Head	0.924	43.486	PASS	PASS	PASS	GMSK	PASS	N/A
K4	835	11/7/2023	7640	1645	835	Head	0.897	40.161	PASS	PASS	PASS	GMSK	PASS	N/A
AM7	835	5/24/2023	7532	501	835	Head	0.935	43.541	PASS	PASS	PASS	GMSK	PASS	N/A
K2	835	9/22/2023	7565	1466	835	Head	0.902	43.520	PASS	PASS	PASS	GMSK	PASS	N/A
K6	1750	10/11/2023	7491	1532	1750	Head	1.382	41.600	PASS	PASS	PASS	N/A	N/A	N/A
K3	1750	10/12/2023	7558	1364	1750	Head	1.358	42.013	PASS	PASS	PASS	N/A	N/A	N/A
S	1750	2/20/2023	7713	1530	1750	Head	1.334	38.727	PASS	PASS	PASS	N/A	N/A	N/A
K6	1900	10/31/2023	7491	1532	1900	Head	1.449	39.710	PASS	PASS	PASS	GMSK	PASS	N/A
K4	1900	9/25/2023	7640	1645	1900	Head	1.425	39.382	PASS	PASS	PASS	GMSK	PASS	N/A
S	2450	3/17/2023	7713	1530	2450	Head	1.762	38.757	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K2	2450	9/22/2023	7565	1466	2450	Head	1.794	41.148	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K4	2450	9/25/2023	7640	1645	2450	Head	1.852	37.712	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K2	2600	9/25/2023	7565	1466	2600	Head	1.900	39.883	PASS	PASS	PASS	TDD	PASS	N/A
K4	2600	9/25/2023	7640	1645	2600	Head	1.966	37.436	PASS	PASS	PASS	TDD	PASS	N/A
O	5250	2/16/2023	7570	1558	5250	Head	4.531	35.226	PASS	PASS	PASS	OFDM	N/A	PASS
O	5600	2/16/2023	7570	1558	5600	Head	4.926	34.639	PASS	PASS	PASS	OFDM	N/A	PASS
O	5750	2/16/2023	7570	1558	5750	Head	5.077	34.397	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