

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
K2	750	09/22/2023	7565	1466	750	Head	0.874	43.793	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
K3	835	10/24/2023	7558	1364	835	Head	0.902	42.336	PASS	PASS	PASS	GMSK	PASS	N/A
K4	835	11/07/2023	7640	1645	835	Head	0.897	40.161	PASS	PASS	PASS	GMSK	PASS	N/A
S	1750	02/20/2023	7713	1530	1750	Head	1.334	38.727	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
H	1750	06/12/2023	7718	1368	1750	Head	1.352	42.005	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
K2	1750	09/22/2023	7565	1466	1750	Head	1.315	41.861	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
K6	1750	10/11/2023	7491	1532	1750	Head	1.382	41.600	PASS	PASS	PASS	N/A	N/A	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
K6	1900	10/31/2023	7491	1532	1900	Head	1.449	39.710	PASS	PASS	PASS	GMSK	PASS	N/A
G	2450	03/10/2023	7417	665	2450	Head	1.861	39.181	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
L	2600	07/05/2023	7409	1334	2600	Head	1.902	39.474	PASS	PASS	PASS	TDD	PASS	N/A
K4	3500	12/01/2023	7640	1645	3500	Head	2.788	38.367	PASS	PASS	PASS	TDD	PASS	N/A
K4	3500	12/01/2023	7640	1645	3500	Head	2.788	38.367	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	3700	12/01/2023	7640	1645	3700	Head	2.975	38.050	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	3900	12/01/2023	7640	1645	3900	Head	3.174	37.724	PASS	PASS	PASS	TDD	PASS	N/A
K3	3900	12/04/2023	7558	1364	3900	Head	3.182	37.501	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
O	5600	02/16/2023	7570	1558	5600	Head	4.926	34.639	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

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