

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	835	2/1/2024	7713	1530	835	Head	0.92	43.4	PASS	PASS	PASS	GMSK	PASS	N/A
S	835	1/4/2024	7660	1678	835	Head	0.876	41.847	PASS	PASS	PASS	GMSK	PASS	N/A
P	1750	8/3/2023	7659	1407	1750	Head	1.341	39.12	PASS	PASS	PASS	N/A	N/A	N/A
C	1750	6/30/2023	7661	728	1750	Head	1.334	38.293	PASS	PASS	PASS	N/A	N/A	N/A
S	1900	1/15/2024	7660	1678	1900	Head	1.421	41.309	PASS	PASS	PASS	GMSK	PASS	N/A
C	1900	8/9/2023	7661	728	1900	Head	1.36	40.19	PASS	PASS	PASS	GMSK	PASS	N/A
P	2300	8/11/2023	7659	1407	2300	Head	1.732	40.344	PASS	PASS	PASS	N/A	N/A	N/A
L	2450	7/5/2023	7409	1334	2450	Head	1.787	39.7	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2450	1/30/2024	7803	1533	2450	Head	1.771	38.01	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S	2450	1/8/2024	7660	1678	2450	Head	1.848	38.215	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2600	7/5/2023	7409	1334	2600	Head	1.902	39.474	PASS	PASS	PASS	TDD	PASS	N/A
O	2600	1/30/2024	7803	1533	2600	Head	1.89	37.754	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	6/27/2023	7409	1334	3500	Head	2.778	39.142	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	6/27/2023	7409	1334	3700	Head	2.968	38.811	PASS	PASS	PASS	TDD	PASS	N/A
G	5250	1/31/2024	7713	1530	5250	Head	4.51	36.5	PASS	PASS	PASS	OFDM	N/A	PASS
G	5600	1/31/2024	7713	1530	5600	Head	4.96	35.7	PASS	PASS	PASS	OFDM	N/A	PASS
G	5750	1/31/2024	7713	1530	5750	Head	5.07	35.5	PASS	PASS	PASS	OFDM	N/A	PASS
G	5850	1/31/2024	7713	1530	5850	Head	5.18	35.3	PASS	PASS	PASS	OFDM	N/A	PASS
K2	750	1/4/2024	7547	1322	750	Head	0.897	41.154	PASS	PASS	PASS	N/A	N/A	N/A
K4	835	11/7/2023	7640	1645	835	Head	0.897	40.161	PASS	PASS	PASS	GMSK	PASS	N/A
K2	2300	1/4/2024	7547	1322	2300	Head	1.694	38.431	PASS	PASS	PASS	N/A	N/A	N/A
K2	2450	1/4/2024	7547	1322	2450	Head	1.807	38.189	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K4	3500	2/1/2024	7565	1466	3500	Head	2.779	37.929	PASS	PASS	PASS	TDD	PASS	N/A
K4	3700	2/2/2024	7565	1466	3700	Head	3.019	38.076	PASS	PASS	PASS	TDD	PASS	N/A
K4	3900	2/2/2024	7565	1466	3900	Head	3.224	37.74	PASS	PASS	PASS	TDD	PASS	N/A
K3	5250	1/15/2024	7558	1364	5250	Head	4.714	35.185	PASS	PASS	PASS	OFDM	N/A	PASS
K3	5600	1/15/2024	7558	1364	5600	Head	5.115	34.491	PASS	PASS	PASS	OFDM	N/A	PASS
K3	5750	1/15/2024	7558	1364	5750	Head	5.276	34.188	PASS	PASS	PASS	OFDM	N/A	PASS
K3	5800	1/15/2024	7558	1364	5850	Head	5.333	34.113	PASS	PASS	PASS	OFDM	N/A	PASS
R	6500	1/26/2024	7410	1638	6500	Head	5.98	33.3	PASS	PASS	PASS	N/A	N/A	N/A
R	6500	2/12/2024	7410	1638	6500	Head	6.212	24.041	N/A	N/A	N/A	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 Computing Device		APPENDIX G: Page 1 of 1