

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

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.

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
K6	750	10/11/2023	7491	1532	750	Head	0.892	43.748	PASS	PASS	PASS	N/A	N/A	N/A
K3	750	01/04/2024	7558	1364	750	Head	0.883	40.494	PASS	PASS	PASS	N/A	N/A	N/A
P	835	08/03/2023	7659	1407	835	Head	0.883	40.951	PASS	PASS	PASS	GMSK	PASS	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
P	1750	08/03/2023	7659	1407	1750	Head	1.341	39.120	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
K6	1900	10/31/2023	7491	1532	1900	Head	1.449	39.710	PASS	PASS	PASS	GMSK	PASS	N/A
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
K2	2600	01/04/2024	7547	1322	2600	Head	1.924	37.958	PASS	PASS	PASS	TDD	PASS	N/A
G	5250	02/27/2023	7417	665	5250	Head	4.813	36.527	PASS	PASS	PASS	OFDM	N/A	PASS
O	5250	01/24/2024	7803	1533	5250	Head	4.841	36.746	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	5600	01/24/2024	7803	1533	5600	Head	5.262	36.070	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	5750	01/25/2024	7803	1533	5750	Head	5.385	35.445	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
O	5850	01/25/2024	7803	1533	5750	Head	5.508	35.272	PASS	PASS	PASS	OFDM	N/A	PASS
H	6500	06/08/2023	7718	1368	6500	Head	6.086	34.351	PASS	PASS	PASS	OFDM	N/A	PASS
R	8000	02/01/2024	7410	1638	8000	Head	8.188	31.507	PASS	PASS	PASS	N/A	N/A	N/A

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