

## APPENDIX E: 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 E-1  
SAR System Validation Summary – 1g**

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. ( $\sigma$ )	Perm. ( $\epsilon_r$ )	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
L	1750	01/10/2022	7670	1750	Head	1.380	41.113	PASS	PASS	PASS	N/A	N/A	N/A
G	1750	06/30/2022	7527	1750	Head	1.361	40.967	PASS	PASS	PASS	N/A	N/A	N/A
P	2300	08/01/2022	7409	2300	Head	1.753	39.718	PASS	PASS	PASS	N/A	N/A	N/A
E	2450	03/16/2022	7538	2450	Head	1.857	38.705	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2450	03/22/2022	7417	2450	Head	1.859	39.964	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
P	2450	07/12/2022	7409	2450	Head	1.757	39.544	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
E	2600	03/16/2022	7538	2600	Head	1.970	38.493	PASS	PASS	PASS	TDD	PASS	N/A
P	2600	07/12/2022	7409	2600	Head	1.933	39.030	PASS	PASS	PASS	TDD	PASS	N/A
I	1750	07/01/2022	7660	1750	Body	1.467	53.907	PASS	PASS	PASS	N/A	N/A	N/A
J	2300	02/16/2022	7570	2300	Body	1.870	54.317	PASS	PASS	PASS	N/A	N/A	N/A
E	2300	03/15/2022	7538	2300	Body	1.812	51.532	PASS	PASS	PASS	N/A	N/A	N/A
J	2450	02/16/2022	7570	2450	Body	2.008	54.126	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
E	2450	03/15/2022	7538	2450	Body	2.012	50.996	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2450	03/23/2022	7417	2450	Body	1.986	52.109	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
J	2600	02/16/2022	7570	2600	Body	2.152	53.884	PASS	PASS	PASS	TDD	PASS	N/A
O	2600	03/23/2022	7417	2600	Body	2.129	51.871	PASS	PASS	PASS	TDD	PASS	N/A

**Table E-2  
SAR System Validation Summary – 10g**

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. ( $\sigma$ )	Perm. ( $\epsilon_r$ )	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
I	1750	07/01/2022	7660	1750	Body	1.467	53.907	PASS	PASS	PASS	N/A	N/A	N/A
J	2300	02/16/2022	7570	2300	Body	1.870	54.317	PASS	PASS	PASS	N/A	N/A	N/A
E	2300	03/15/2022	7538	2300	Body	1.812	51.532	PASS	PASS	PASS	N/A	N/A	N/A
O	2450	03/23/2022	7417	2450	Body	1.986	52.109	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S	2450	08/02/2022	7488	2450	Body	2.019	51.379	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2600	03/23/2022	7417	2600	Body	2.129	51.871	PASS	PASS	PASS	TDD	PASS	N/A
S	2600	08/02/2022	7488	2600	Body	2.179	50.480	PASS	PASS	PASS	TDD	PASS	N/A

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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