

## APPENDIX F: 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 F-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
E	1900	12/02/2021	7538	1900	Head	1.459	39.912	PASS	PASS	PASS	GMSK	PASS	N/A
S	2600	01/24/2022	7552	2600	Head	2.007	39.669	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	10/13/2021	7670	3500	Head	2.786	38.172	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	10/13/2021	7670	3700	Head	2.881	38.022	PASS	PASS	PASS	TDD	PASS	N/A
L	3900	10/13/2021	7670	3900	Head	2.975	37.851	PASS	PASS	PASS	TDD	PASS	N/A
A	1900	01/10/2022	7406	1900	Body	1.545	53.143	PASS	PASS	PASS	GMSK	PASS	N/A
A	2450	01/18/2022	7406	2450	Body	2.040	51.797	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H	2600	01/13/2022	7409	2600	Body	2.168	50.881	PASS	PASS	PASS	TDD	PASS	N/A
A	2600	01/18/2022	7406	2600	Body	2.179	51.953	PASS	PASS	PASS	TDD	PASS	N/A
I	3500	10/13/2021	7661	3500	Body	3.198	49.804	PASS	PASS	PASS	TDD	PASS	N/A
I	3700	10/13/2021	7661	3700	Body	3.429	49.469	PASS	PASS	PASS	TDD	PASS	N/A
I	3900	10/13/2021	7661	3900	Body	3.675	49.133	PASS	PASS	PASS	TDD	PASS	N/A

**Table F-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
A	1900	01/10/2022	7406	1900	Body	1.545	53.143	PASS	PASS	PASS	GMSK	PASS	N/A
A	2450	01/18/2022	7406	2450	Body	2.040	51.797	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H	2600	01/13/2022	7409	2600	Body	2.168	50.881	PASS	PASS	PASS	TDD	PASS	N/A
A	2600	01/18/2022	7406	2600	Body	2.179	51.953	PASS	PASS	PASS	TDD	PASS	N/A
I	3500	10/13/2021	7661	3500	Body	3.198	49.804	PASS	PASS	PASS	TDD	PASS	N/A
I	3700	10/13/2021	7661	3700	Body	3.429	49.469	PASS	PASS	PASS	TDD	PASS	N/A
I	3900	10/13/2021	7661	3900	Body	3.675	49.133	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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Test Dates: 02/07/22 – 03/25/22	DUT Type: Portable Handset	APPENDIX F: Page 1 of 1		