

APPENDIX C: 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 C-1
SAR System Validation Summary – 1g

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (ϵ_r)	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
M	750	4/22/2021	7570	750	Body	0.939	55.971	PASS	PASS	PASS	N/A	N/A	N/A
M	835	4/22/2021	7570	835	Body	0.971	55.767	PASS	PASS	PASS	GMSK	PASS	N/A
N	1750	3/6/2021	7417	1750	Body	1.422	51.373	PASS	PASS	PASS	N/A	N/A	N/A
N	1900	3/8/2021	7417	1900	Body	1.584	52.494	PASS	PASS	PASS	GMSK	PASS	N/A
M	2300	1/27/2021	7570	2300	Body	1.89	53.945	PASS	PASS	PASS	N/A	N/A	N/A
M	2600	1/27/2021	7570	2600	Body	2.184	53.439	PASS	PASS	PASS	TDD	PASS	N/A

Table C-2
SAR System Validation Summary – 10g

System Validation													
SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (ϵ_r)	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
N	1900	3/8/2021	7417	1900	Body	1.584	52.494	PASS	PASS	PASS	GMSK	PASS	N/A

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. 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: 04/28/2021-06/17/2021	DUT Type: Portable Handset	APPENDIX C: Page 1 of 1