

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

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE CAL. POINT		COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
						(σ)	(εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
G	750	5/20/2021	7357	750	Head	0.923	43.83	PASS	PASS	PASS	N/A	N/A	N/A
P	835	9/10/2020	7308	835	Head	0.936	43.197	PASS	PASS	PASS	GMSK	PASS	N/A
J	1750	4/2/2021	7526	1750	Head	1.364	41.162	PASS	PASS	PASS	N/A	N/A	N/A
G	1750	5/16/2021	7357	1750	Head	1.393	40.373	PASS	PASS	PASS	N/A	N/A	N/A
E	1900	2/23/2021	7571	1900	Head	1.407	39	PASS	PASS	PASS	GMSK	PASS	N/A
E	2300	1/7/2021	7571	2300	Head	1.672	40.318	PASS	PASS	PASS	N/A	N/A	N/A
E	2450	1/7/2021	7571	2450	Head	1.847	39.716	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
E	2600	1/7/2021	7571	2600	Head	2.025	39.117	PASS	PASS	PASS	TDD	PASS	N/A
J	2600	4/8/2021	7526	2600	Head	1.966	39.986	PASS	PASS	PASS	TDD	PASS	N/A
L	2450	4/6/2021	7539	2450	Head	1.846	39.842	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	3500	4/8/2021	7539	3500	Head	2.827	39.168	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	4/8/2021	7539	3700	Head	3.02	38.831	PASS	PASS	PASS	TDD	PASS	N/A
L	3900	4/9/2021	7539	3900	Head	3.227	38.502	PASS	PASS	PASS	TDD	PASS	N/A
K	5250	3/24/2021	7538	5250	Head	4.577	36.451	PASS	PASS	PASS	OFDM	N/A	PASS
K	5600	3/24/2021	7538	5600	Head	4.972	37.736	PASS	PASS	PASS	OFDM	N/A	PASS
K	5750	3/24/2021	7538	5750	Head	5.166	35.643	PASS	PASS	PASS	OFDM	N/A	PASS
G	750	2/22/2021	7406	750	Body	0.972	54.171	PASS	PASS	PASS	N/A	N/A	N/A
G	750	5/27/2021	7357	750	Body	0.997	53.63	PASS	PASS	PASS	N/A	N/A	N/A
H	835	3/31/2021	7410	835	Body	0.988	54.762	PASS	PASS	PASS	GMSK	PASS	N/A
P	835	9/8/2020	7308	835	Body	0.977	54.534	PASS	PASS	PASS	GMSK	PASS	N/A
P	1750	9/8/2020	7308	1750	Body	1.478	52.86	PASS	PASS	PASS	N/A	N/A	N/A
I	1750	3/30/2021	7551	1750	Body	1.5	52.688	PASS	PASS	PASS	N/A	N/A	N/A
E	1750	2/15/2021	7571	1750	Body	1.537	52.07	PASS	PASS	PASS	N/A	N/A	N/A
H	1750	3/31/2021	7410	1750	Body	1.471	53.269	PASS	PASS	PASS	N/A	N/A	N/A
D	1900	3/2/2021	3589	1900	Body	1.587	53.15	PASS	PASS	PASS	GMSK	PASS	N/A
K	2300	3/26/2021	7538	2300	Body	1.791	51.401	PASS	PASS	PASS	N/A	N/A	N/A
L	2450	3/30/2021	7539	2450	Body	2.017	50.784	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2600	3/31/2021	7539	2600	Body	2.152	50.557	PASS	PASS	PASS	TDD	PASS	N/A
K	2450	3/26/2021	7538	2450	Body	1.962	51.166	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2300	4/5/2021	7539	2300	Body	1.746	51.746	PASS	PASS	PASS	N/A	N/A	N/A
I	3500	3/29/2021	7551	3500	Body	3.199	50.517	PASS	PASS	PASS	TDD	PASS	N/A
I	3700	3/29/2021	7551	3700	Body	3.438	50.196	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	3/30/2021	7539	3500	Body	3.155	49.807	PASS	PASS	PASS	TDD	PASS	N/A
I	3900	3/29/2021	7551	3900	Body	3.694	49.853	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	3/30/2021	7539	3700	Body	3.384	49.498	PASS	PASS	PASS	TDD	PASS	N/A
L	3900	3/30/2021	7539	3900	Body	3.624	49.191	PASS	PASS	PASS	TDD	PASS	N/A
J	5250	3/22/2021	7526	5250	Body	5.322	47.65	PASS	PASS	PASS	OFDM	N/A	PASS
J	5600	3/22/2021	7526	5600	Body	5.811	47.004	PASS	PASS	PASS	OFDM	N/A	PASS
J	5750	3/22/2021	7526	5750	Body	6.027	46.709	PASS	PASS	PASS	OFDM	N/A	PASS

FCC ID: A3LSMF926U	 PCTEST <small> Proud to be part of  element</small>	SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset	APPENDIX D: Page 1 of 2		

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

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE CAL. POINT		COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
						(σ)	(εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
G	750	2/22/2021	7406	750	Body	0.972	54.171	PASS	PASS	PASS	N/A	N/A	N/A
H	835	3/31/2021	7410	835	Body	0.988	54.762	PASS	PASS	PASS	GMSK	PASS	N/A
P	835	9/8/2020	7308	835	Body	0.977	54.534	PASS	PASS	PASS	GMSK	PASS	N/A
P	1750	9/8/2020	7308	1750	Body	1.478	52.86	PASS	PASS	PASS	N/A	N/A	N/A
I	1750	3/30/2021	7551	1750	Body	1.5	52.688	PASS	PASS	PASS	N/A	N/A	N/A
E	1750	2/15/2021	7571	1750	Body	1.537	52.07	PASS	PASS	PASS	N/A	N/A	N/A
D	1900	3/2/2021	3589	1900	Body	1.587	53.15	PASS	PASS	PASS	GMSK	PASS	N/A
K	2300	3/26/2021	7538	2300	Body	1.791	51.401	PASS	PASS	PASS	N/A	N/A	N/A
L	2450	3/30/2021	7539	2450	Body	2.017	50.784	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2600	3/31/2021	7539	2600	Body	2.152	50.557	PASS	PASS	PASS	TDD	PASS	N/A
K	2450	3/26/2021	7538	2450	Body	1.962	51.166	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2300	4/5/2021	7539	2300	Body	1.746	51.746	PASS	PASS	PASS	N/A	N/A	N/A
I	3500	3/29/2021	7551	3500	Body	3.199	50.517	PASS	PASS	PASS	TDD	PASS	N/A
I	3700	3/29/2021	7551	3700	Body	3.438	50.196	PASS	PASS	PASS	TDD	PASS	N/A
I	3900	3/29/2021	7551	3900	Body	3.694	49.853	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	3/30/2021	7539	3500	Body	3.155	49.807	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	3/30/2021	7539	3700	Body	3.384	49.498	PASS	PASS	PASS	TDD	PASS	N/A
L	3900	3/30/2021	7539	3900	Body	3.624	49.191	PASS	PASS	PASS	TDD	PASS	N/A
J	5250	3/22/2021	7526	5250	Body	5.322	47.65	PASS	PASS	PASS	OFDM	N/A	PASS
J	5600	3/22/2021	7526	5600	Body	5.811	47.004	PASS	PASS	PASS	OFDM	N/A	PASS
J	5750	3/22/2021	7526	5750	Body	6.027	46.709	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: 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.

FCC ID: A3LSMF926U	 PCTEST <small>Should be part of element</small>	SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset	APPENDIX D: Page 2 of 2		