

APPENDIX H: 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 H-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
S	750	01/20/2022	7552	750	Head	0.866	42.809	PASS	PASS	PASS	N/A	N/A	N/A
S	835	01/20/2022	7552	835	Head	0.897	42.532	PASS	PASS	PASS	GMSK	PASS	N/A
L	1750	01/10/2022	7670	1750	Head	1.380	41.113	PASS	PASS	PASS	N/A	N/A	N/A
S	1750	01/20/2022	7552	1750	Head	1.363	40.760	PASS	PASS	PASS	N/A	N/A	N/A
L	1900	01/17/2022	7670	1900	Head	1.395	38.770	PASS	PASS	PASS	GMSK	PASS	N/A
S	1900	01/20/2022	7552	1900	Head	1.461	40.511	PASS	PASS	PASS	GMSK	PASS	N/A
E	2450	03/16/2022	7538	2450	Head	1.857	38.705	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
P	2600	07/12/2022	7409	2600	Head	1.933	39.030	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
O	5250	03/18/2022	7417	5250	Head	4.856	36.094	PASS	PASS	PASS	OFDM	N/A	PASS
O	5600	03/21/2022	7417	5600	Head	5.206	34.462	PASS	PASS	PASS	OFDM	N/A	PASS
O	5750	03/21/2022	7417	5750	Head	5.388	34.210	PASS	PASS	PASS	OFDM	N/A	PASS
L	750	01/05/2022	7670	750	Body	0.962	55.636	PASS	PASS	PASS	N/A	N/A	N/A
K	750	05/24/2022	7659	750	Body	0.964	55.448	PASS	PASS	PASS	N/A	N/A	N/A
I	835	07/01/2022	7660	835	Body	0.953	57.558	PASS	PASS	PASS	GMSK	PASS	N/A
L	1750	01/05/2022	7670	1750	Body	1.477	53.736	PASS	PASS	PASS	N/A	N/A	N/A
I	1750	07/01/2022	7660	1750	Body	1.467	53.907	PASS	PASS	PASS	N/A	N/A	N/A
E	1900	03/22/2022	7538	1900	Body	1.583	50.883	PASS	PASS	PASS	GMSK	PASS	N/A
O	1900	03/24/2022	7417	1900	Body	1.536	52.790	PASS	PASS	PASS	GMSK	PASS	N/A
K	1900	07/21/2022	7659	1900	Body	1.559	51.740	PASS	PASS	PASS	GMSK	PASS	N/A
S	2450	01/25/2022	7552	2450	Body	2.016	52.250	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S	2600	01/25/2022	7552	2600	Body	2.147	51.997	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	10/13/2021	7670	3700	Body	3.637	50.037	PASS	PASS	PASS	TDD	PASS	N/A
I	3700	06/30/2022	7660	3700	Body	3.385	50.440	PASS	PASS	PASS	TDD	PASS	N/A
I	3900	07/01/2022	7660	3900	Body	3.630	50.098	PASS	PASS	PASS	TDD	PASS	N/A
O	5250	03/10/2022	7417	5250	Body	5.470	48.210	PASS	PASS	PASS	OFDM	N/A	PASS
O	5600	03/10/2022	7417	5600	Body	5.973	47.490	PASS	PASS	PASS	OFDM	N/A	PASS
O	5750	03/11/2022	7417	5750	Body	6.190	47.228	PASS	PASS	PASS	OFDM	N/A	PASS

FCC ID: PY7-76056F	SAR EVALUATION REPORT	Approved by: Technical Manager
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**Table H-2
SAR System Validation Summary – 10g**

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
G	13	06/09/2022	7527	13	Head	0.762	52.537	PASS	PASS	PASS	N/A	N/A	N/A
I	1750	07/01/2022	7660	1750	Body	1.467	53.907	PASS	PASS	PASS	N/A	N/A	N/A
O	1900	03/24/2022	7417	1900	Body	1.536	52.790	PASS	PASS	PASS	GMSK	PASS	N/A
K	1900	07/21/2022	7659	1900	Body	1.559	51.740	PASS	PASS	PASS	GMSK	PASS	N/A
S	2600	01/25/2022	7552	2600	Body	2.147	51.997	PASS	PASS	PASS	TDD	PASS	N/A
I	3700	06/30/2022	7660	3700	Body	3.385	50.440	PASS	PASS	PASS	TDD	PASS	N/A
I	3900	07/01/2022	7660	3900	Body	3.630	50.098	PASS	PASS	PASS	TDD	PASS	N/A
O	5250	03/10/2022	7417	5250	Body	5.470	48.210	PASS	PASS	PASS	OFDM	N/A	PASS
O	5600	03/10/2022	7417	5600	Body	5.973	47.490	PASS	PASS	PASS	OFDM	N/A	PASS
O	5750	03/11/2022	7417	5750	Body	6.190	47.228	PASS	PASS	PASS	OFDM	N/A	PASS

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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