

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

SAR System	Freq. (MHz)	Date	Probe SN	DAE	Probe Cal Point	Cond. (σ)	Perm. (εr)	CW VALIDATION			MOD. VALIDATION			
								SENSITIVITY Y	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR	
G	13	02/28/2023	7417	665	13	Head	0.745	55.517	PASS	PASS	PASS	N/A	N/A	N/A
K	750	08/04/2022	7659	1407	750	Head	0.906	42.472	PASS	PASS	PASS	N/A	N/A	N/A
C	750	08/09/2022	7406	1677	750	Head	0.913	41.346	PASS	PASS	PASS	N/A	N/A	N/A
C	835	08/09/2022	7406	1677	835	Head	0.943	41.102	PASS	PASS	PASS	GMSK	PASS	N/A
L	835	08/10/2022	7410	1583	835	Head	0.912	42.550	PASS	PASS	PASS	GMSK	PASS	N/A
AM5	835	12/16/2022	7639	1646	835	Head	0.908	42.271	PASS	PASS	PASS	GMSK	PASS	N/A
K	1750	08/04/2022	7659	1407	1750	Head	1.376	40.515	PASS	PASS	PASS	N/A	N/A	N/A
P	1750	08/08/2022	7409	1334	1750	Head	1.379	40.876	PASS	PASS	PASS	N/A	N/A	N/A
P	1900	08/17/2022	7409	1334	1900	Head	1.385	38.998	PASS	PASS	PASS	GMSK	PASS	N/A
S	1900	02/17/2023	7713	1530	1900	Head	1.410	38.557	PASS	PASS	PASS	GMSK	PASS	PASS
P	2300	08/01/2022	7409	1334	2300	Head	1.753	39.718	PASS	PASS	PASS	N/A	N/A	N/A
AM3	2300	02/07/2023	3837	793	2300	Head	1.693	37.721	PASS	PASS	PASS	N/A	N/A	N/A
L	2450	08/11/2022	7410	1583	2450	Head	1.862	39.716	PASS	PASS	PASS	OFDM/TDD	PASS	N/A
C	2450	08/11/2022	7406	1677	2450	Head	1.801	37.877	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2600	08/11/2022	7410	1583	2600	Head	1.987	39.461	PASS	PASS	PASS	TDD	PASS	PASS
AM1	2600	11/09/2022	7420	1333	2600	Head	1.940	38.000	PASS	PASS	PASS	TDD	PASS	PASS
AM7	3500	06/18/2022	7416	701	3500	Head	2.865	36.230	PASS	PASS	PASS	TDD	PASS	PASS
C	3500	08/12/2022	7406	1677	3500	Head	2.829	37.515	PASS	PASS	PASS	TDD	PASS	PASS
AM7	3700	06/18/2022	7416	701	3700	Head	3.022	35.958	PASS	PASS	PASS	TDD	PASS	N/A
C	3700	08/12/2022	7406	1677	3700	Head	3.016	37.068	PASS	PASS	PASS	TDD	PASS	N/A
AM7	3900	06/18/2022	7416	701	3900	Head	3.198	35.716	PASS	PASS	PASS	TDD	PASS	N/A
O	5250	02/16/2023	7570	1558	5250	Head	4.531	35.226	PASS	PASS	PASS	OFDM	N/A	N/A
O	5600	02/16/2023	7570	1558	5600	Head	4.926	34.639	PASS	PASS	PASS	OFDM	N/A	N/A
O	5750	02/16/2023	7570	1558	5750	Head	5.077	34.397	PASS	PASS	PASS	OFDM	N/A	N/A
O	5800	02/20/2023	7570	1558	5800	Head	5.237	33.586	PASS	PASS	PASS	OFDM	N/A	PASS
AM5	750	01/17/2023	7639	1646	750	Body	0.943	55.357	PASS	PASS	PASS	N/A	N/A	N/A
O	750	02/03/2023	7570	1558	750	Body	0.922	55.235	PASS	PASS	PASS	N/A	N/A	N/A
C	835	08/15/2022	7406	1677	835	Body	0.978	54.692	PASS	PASS	PASS	GMSK	PASS	N/A
AM5	835	01/17/2023	7639	1646	835	Body	0.970	55.174	PASS	PASS	PASS	GMSK	PASS	PASS
C	1750	08/16/2022	7406	1677	1750	Body	1.460	53.454	PASS	PASS	PASS	N/A	N/A	PASS
P	1750	08/16/2022	7409	1334	1750	Body	1.422	53.473	PASS	PASS	PASS	N/A	N/A	PASS
AM5	1750	01/18/2023	7639	1646	1750	Body	1.449	52.795	PASS	PASS	PASS	N/A	N/A	PASS
P	1900	08/16/2022	7409	1334	1900	Body	1.521	53.285	PASS	PASS	PASS	GMSK	PASS	PASS
D	1900	11/29/2022	7551	1323	1900	Body	1.566	53.795	PASS	PASS	PASS	GMSK	PASS	N/A
AM5	1900	01/16/2023	7639	1646	1900	Body	1.449	52.514	PASS	PASS	PASS	GMSK	PASS	N/A
D	2300	11/22/2022	7551	1323	2300	Body	1.841	53.907	PASS	PASS	PASS	N/A	N/A	N/A
AM1	2300	01/09/2023	7420	1333	2300	Body	1.889	52.039	PASS	PASS	PASS	N/A	N/A	N/A
L	2450	08/08/2022	7410	1583	2450	Body	2.042	53.429	PASS	PASS	PASS	OFDM/TDD	PASS	N/A
D	2450	11/22/2022	7551	1323	2450	Body	1.985	53.790	PASS	PASS	PASS	OFDM/TDD	PASS	N/A
AM1	2450	01/09/2023	7420	1333	2450	Body	2.024	51.852	PASS	PASS	PASS	OFDM/TDD	PASS	N/A
D	2600	11/23/2022	7551	1323	2600	Body	2.140	53.479	PASS	PASS	PASS	TDD	PASS	N/A
AM1	2600	01/09/2023	7420	1333	2600	Body	2.168	51.636	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	08/04/2022	7410	1583	3500	Body	3.159	51.062	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3500	02/03/2023	3837	793	3500	Body	3.157	52.209	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	08/04/2022	7410	1583	3700	Body	3.395	50.732	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3700	02/03/2023	3837	793	3700	Body	3.408	51.882	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3900	02/03/2023	3837	793	3900	Body	3.669	51.556	PASS	PASS	PASS	TDD	PASS	N/A
K	5250	05/03/2022	7659	1407	5250	Body	5.389	47.450	PASS	PASS	PASS	OFDM	N/A	N/A
K	5600	05/03/2022	7659	1407	5600	Body	5.891	46.819	PASS	PASS	PASS	OFDM	N/A	PASS
K	5750	05/03/2022	7659	1407	5750	Body	6.105	46.554	PASS	PASS	PASS	OFDM	N/A	N/A
K	5800	05/03/2022	7659	1407	5800	Body	6.178	46.433	PASS	PASS	PASS	OFDM	N/A	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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DUT Type: Portable Handset		APPENDIX F: Page 1 of 1