## 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.

SAR System valuation Summary – rg													
SAR	Freq. (MHz)	Date	Probe SN		be Cal Point Cond. (σ)		Perm. (εr)	CW VALIDATION			MOD. VALIDATION		
System				Probe C				SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
А	750	08/13/2021	7406	750	Head	0.896	40.771	PASS	PASS	PASS	N/A	N/A	N/A
А	835	08/17/2021	7406	835	Head	0.930	41.121	PASS	PASS	PASS	GMSK	PASS	N/A
A	1750	08/13/2021	7406	1750	Head	1.373	38.653	PASS	PASS	PASS	N/A	N/A	N/A
В	1900	08/19/2021	7660	1900	Head	1.456	38.927	PASS	PASS	PASS	GMSK	PASS	N/A
A	1900	08/31/2021	7406	1900	Head	1.460	38.800	PASS	PASS	PASS	GMSK	PASS	N/A
В	2600	08/11/2021	7660	2600	Head	1.972	38.826	PASS	PASS	PASS	TDD	PASS	N/A
E	750	08/23/2021	7571	750	Body	0.971	53.715	PASS	PASS	PASS	N/A	N/A	N/A
Н	835	08/23/2021	7409	835	Body	0.943	52.956	PASS	PASS	PASS	GMSK	PASS	N/A
E	1750	08/25/2021	7571	1750	Body	1.493	51.559	PASS	PASS	PASS	N/A	N/A	N/A
Р	1900	08/23/2021	7410	1900	Body	1.582	52.060	PASS	PASS	PASS	GMSK	PASS	N/A
L	2600	07/06/2021	7539	2600	Body	2.152	50.557	PASS	PASS	PASS	TDD	PASS	N/A

Table D-1 SAR System Validation Summary – 1g

 Table D-2

 SAR System Validation Summary – 10g

SAR	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. Pern (σ) (εr)	Dorm	CW VALIDATION			MOD. VALIDATION		
System							-		PROBE	PROBE	MOD.	DUTY	PAR
					(0)		(61)		LINEARITY	ISOTROPY	TYPE	FACTOR	FAN
E	1750	08/25/2021	7571	1750	Body	1.493	51.559	PASS	PASS	PASS	N/A	N/A	N/A
Р	1900	08/23/2021	7410	1900	Body	1.582	52.060	PASS	PASS	PASS	GMSK	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:	DUT Type:		APPENDIX D:	
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