



Date: Oct 19, 2023

Federal Communications Commission  
Office of Engineering and Technology Laboratory Division  
7435 Oakland Mills Rd.  
Columbia MD 21046

Attn: Office of Engineering and Technology HAC Attestation - FCC ID: A3LSMS926U

To whom it may concern:

Samsung Electronics Co. Ltd., hereby declares that the MIF values detailed below are based on worst case operating modes for all air interfaces for which the HAC rating is provided based on the current methodology for determining MIF values.

Reference Test Report Number(s):

**SPEAG test files**

UID	Communication System Name	MIF (dB)
10021-DAC	GSM-FDD (TDMA, GMSK)	3.63
10460-AAB	UMTS-FDD (WCDMA,AMR)	-25.43
10170-CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16QAM)	-9.76
10182-CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16QAM)	-9.76
10176-CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-9.76
10235-CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-1.44
10173-CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16QAM)	-1.44
10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10069-CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10591-AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	-5.59
10607-AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	-5.60
10616-AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	-5.57
10626-AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	-5.64
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	-5.56
10671-AAC	IEEE 802.11ax WiFi (20MHz, MCS0, 90pc dc)	-5.58
10695-AAC	IEEE 802.11ax WiFi (40MHz, MCS0, 90pc dc)	-6.01
10719-AAC	IEEE 802.11ax WiFi (80MHz, MCS0, 90pc dc)	-6.04
10743-AAC	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	-6.60
10929-AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	-15.06
10930-AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	-15.06
10931-AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	-15.06
10934-AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	-15.07
10972-AAB	5G NR(CP-OFDM, 1 RB, 20MHz QPSK, 15kHz)	-1.65
10973-AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-1.64

Sincerely,



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Jenni Chun / General Manager  
Samsung Electronics America, Inc.  
Address: 19 Chapin Rd., Building D  
Pine Brook, NJ 07058

Tel: 1-973-808-6375