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Federal Communications Commission
7435 Oakland Mills Road
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Subject: Declaration - MIF for HAC RF Interference Evaluation
FCC ID: A4RGZDQ6

To Whom It May Concern:

Google LLC hereby declares that the MIF values detailed below are based on worst case operating modes for all air interfaces for which the HAC is provided based on the current methodology for determining MIF values.

UID	Communication System Name	MIF(dB)
10021	GSM-FDD(TDMA,GMSK)	3.63
10023	GPRS-FDD (TDMA, GMSK, TN 0)	3.8
10024	GPRS-FDD (TDMA, GMSK, TN 0-1)	1.15
10027	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	-0.67
10028	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	-2.05
10025	EDGE-FDD (TDMA, 8PSK, TN 0)	3.75
10026	EDGE-FDD (TDMA, 8PSK, TN 0-1)	1.23
10029	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	-0.52
10058	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	-1.82
10460	UMTS-FDD(WCDMA, AMR)	-25.43
10225	UMTS-FDD (HSPA+)	-20.39
10170	LTE-FDD(SC-FDMA, 1RB, 20MHz, 16-QAM)	-9.76
10173	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	-1.44
10769	5G NR 100% duty (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	-12.08
10973	5G NR 40% duty ((DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-1.64
10061	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10427	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	-13.44
10069	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10616	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	-5.57
10671	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	-5.58
11026	IEEE 802.11be (320MHz, MCS0, 99pc duty cycle)	-28.73
*NA	5G NR PC3(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz), Duty cycle 90%	-9.26
*NA	5G NR PC3(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz) , Duty cycle 80%	-5.07
*NA	5G NR PC3(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz) , Duty cycle 70%	-3.78
*NA	5G NR PC3(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz) , Duty cycle 60%	-2.24
*NA	5G NR PC1.5(DFT-s-OFDM, 1 RB, 100MHz,BPSK, 30kHz), Duty Cycle 25%	-0.78
*NA	5G NR PC1.5(DFT-s-OFDM, 50% RB, 100MHz,BPSK, 30kHz) , Duty Cycle 25%	-0.82
*NA	5G NR PC1.5(DFT-s-OFDM, 1 RB, 100MHz,QPSK, 30kHz) , Duty Cycle 25%	-0.96
*NA	5G NR PC1.5(CP-OFDM, 1 RB, 100MHz,QPSK, 30kHz) , Duty Cycle 25%	-1.56
*NA	5G NR PC1.5(CP-OFDM, 50% RB, 100MHz,QPSK, 30kHz) , Duty Cycle 25%	-1.72
*NA	5G NR PC1.5(DFT-s-OFDM, 1 RB, 10MHz,BPSK, 30kHz) , Duty Cycle 25%	-0.83
*NA	5G NR PC1.5(DFT-s-OFDM, 50% RB, 10MHz,BPSK, 30kHz) , Duty Cycle 25%	-0.85
*NA	5G NR PC1.5(DFT-s-OFDM, 1 RB, 10MHz,QPSK, 30kHz) , Duty Cycle 25%	-0.99
*NA	5G NR PC1.5(CP-OFDM, 1 RB, 10MHz,QPSK, 30kHz) , Duty Cycle 25%	-1.61
*NA	5G NR PC1.5(CP-OFDM, 50% RB, 10MHz,QPSK, 30kHz) , Duty Cycle 25%	-1.76

Remark:

Refer to appendix E for RFE UID specifications summary provided by SPEAG

*Refer to appendix G for MIF measurements conducted by the test lab for 5G NR TDD.

Sincerely yours,

Sherry Lu
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