

MPE CALCULATION

WLAN: FCC ID: W38-241083G / **IC ID:** 8854A-241083G

WWAN: FCC ID: W38-PXS8 / **IC ID:** 8854A-PXS8

RF Exposure Requirements:	47 CFR §1. 1307(b)
RF Radiation Exposure Limits:	47 CFR §1. 1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	2412-2462 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm ²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Prediction distance 20cm

(WLAN): Power = 17.9 dBm, Antenna Gain = 2.5 dBi, Power density = 0.022 mW/ cm²

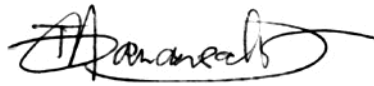
(WWAN 1900MHz): Power = 27.29 dBm, Antenna Gain = 2.5 dBi, Power density = 0.190 mW/ cm²

(WWAN 850MHz): Power = 30.49 dBm, Antenna Gain = 2.5 dBi, Power density = 0.396 mW/ cm²

Total Ratio = $(P_{WLAN}/1) + (P_{WWAN\ 850MHz}/0.5495) = 0.022\text{ mW/ cm}^2 + 0.721\text{ mW/ cm}^2 = 0.743\text{ mW/ cm}^2$

The Above Result had shown that the Device complied with MPE requirement.

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