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 / cm²

Equation: S = PG / 4π R² or R = \sqrt{PG} / 4π 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 = $(P_{WLAN}/1) + (P_{WWAN 850MHz}/0.5495) = 0.022 \text{ mW/cm}^2 + 0.721 \text{ mW/cm}^2 = 0.743 \text{ mW/cm}^2$

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

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