## MPE Calculation

FCC ID: 2AGFX-STACK001

Remark: Average ≤ Peak, which means that calculating the power density applying Peak power is worst case. The worst case operation mode generating the highest power in each frequency range is taken for calculation.

Frequency range: 2405-2480 MHz Typical use distance: d ≥ 20 cm

Power density limit for mobile devices at 2.4 GHz: S ≤ 1 mW/cm2

Maximum measured conducted power (Peak): Pconducted = 8.9 dBm = 7.76 mW

Antenna Gain: G = 5.17 dBi = 3.3 mW on the linear scale

Calculation: Pradiated = Pconducted + Glinear = 8.9 dBm + 5.17 dBi = 14.07 dBm = 25.52 mW

Power density S = (Pradiated) /  $(4\pi \times d2) = 25.52 / 5026 = 0.005 \text{ mW/cm2} < 1 => below limit$