MPE Calculation

FCC ID: 2AI6D-X96

Remark: Average \leq 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:**2412-2462** MHzTypical use distance: d \geq 20 cmPower density limit for mobile devices at 2.4 GHz:S \leq 1 mW/cm²Maximum measured conducted power (Peak):
Pconducted = **16.38** dBm = 43.45 mWAntenna Gain:G = **1.92** dBi = 1.56 on the linear scaleCalculation:Pradiated = Pconducted + Glinear = 16.38 dBm + 1.92 dBi = 18.3 dBm = 67.61 mWPower densityS = (Pradiated) / (4\pi x d²) = 67.61 / 5026 = 0.0135 mW/cm² < 1 => below limit

Frequency range:**2422-2452** MHzTypical use distance: d \geq 20 cmPower density limit for mobile devices at 2.4 GHz:S \leq 1 mW/cm²Maximum measured conducted power (Peak):
Pconducted = **14.12** dBm = 25.82 mWAntenna Gain:G = **1.92** dBi = 1.56 on the linear scaleCalculation: $P_{radiated} = P_{conducted} + G_{linear} = 14.12 dBm + 1.92 dBi = 16.04 dBm = 40.18 mWPower densityS = (P_{radiated}) / (4\pi x d^2) = 40.18 / 5026 = 0.0080 mW/cm² < 1 => below limit$

OVER-ALL VERDICT ==> PASS