MPE Calculation

FCC ID: VF6KINYOBT120

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.

Transmitting in DSS or DTS mode, calculating with highest power of both:

Frequency range: **2402-2480** MHz   Typical use distance: d ≥ 20 cm

Power density limit for mobile devices at 2.4 GHz: S ≤ 1 mW/cm^2

Maximum measured conducted power (Peak): $P_{conducted}$ = **2.63** dBm = 1.83 mW

Antenna Gain: G = **0** dBi = 1 on the linear scale

Calculation: $P_{radiated}$ = $P_{conducted}$ + G_{linear} = 2.63 dBm + 0 dBi = 2.63 dBm = 1.83 mW

Power density S = ($P_{radiated}$) / (4π x d^2) = 1.83 / 5026 = 0.0004 mW/cm^2 < 1 => <u>below limit</u>