

MPE CALCULATION
FCC ID: Y47RN310B4B2

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: 1500 ~100,000MHz
Power Density Limit: 1 mW/ cm²

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

MPE test Result

Radio Mode	Frequency (MHz)	Meas Output Power (dBm)	Antenna Gain (dBi)	Power Density (mw/cm ²)	Max tune-up Power (dBm)	Scaled Power Density (mw/cm ²)	Power Density Limit(mw/cm ²)
UMTS Band 2	1930-1995	24.24	3	0.105	24.5	0.112	1
LTE Band 4	2110-2155	24.40	3	0.108	24.5	0.112	1

Total Power density= 0.112 mW/cm² + 0.112 mW/cm² = 0.224 mW/cm² < 1mW/ cm²

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

Completed By: Nima Molaei

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