

MPE CALCULATION

FCC ID: F53183H9080

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
Limits for General Population/Uncontrolled Exposure in the band of:

Frequency Range (MHz)	Power Density (mW/cm ²)
1,500-100,000	1.0
300-1500	f/1500

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 Calculations:

Prediction distance 20cm

Radio Mode	Frequency Range (MHz)	Reference Freq. (MHz)	Average Output Power (dBm)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Antenna Gain (dBi)	Measurement Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
UMTS Band 2	1850-1910	1852.4	23.31	±1dB	24.31	6.8	20	0.257	1
UMTS Band 5	824-849	826.4	22.95	±1dB	23.95	1.3	20	0.0666	0.551

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



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