

**MPE CALCULATION**  
**FCC ID: Y47RN310B4B13**

**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:** 300-1500MHz, 1500 ~100,000MHz

**Power Density Limit:** f/1500 mW/ cm<sup>2</sup>, 1 mW/ cm<sup>2</sup>

**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

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**MPE test Result**

Radio Mode	Frequency (MHz)	Meas Output Power (dBm)	Antenna Gain (dBi)	Power Density (mw/cm <sup>2</sup> )	Max tune-up Power (dBm)	Scaled Power Density (mw/cm <sup>2</sup> )	Power Density Limit(mw/cm <sup>2</sup> )
LTE Band 13	1930-1995	24.02	3	0.100	24.5	0.112	0.5
LTE Band 4	2110-2155	24.40	3	0.108	24.5	0.112	1

Total Ratio =  $(P_{\text{LTE band 13}}/0.5) + (P_{\text{LTE band 4}}/1) = 0.224 + 0.112 = 0.336 < 1$

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

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Date: April 14st, 2015