

# MPE CALCULATION

**FCC ID: SSH-SYNKRX**

<b>RF Exposure Requirements:</b>	47 CFR §1.1307(b)
<b>RF Radiation Exposure Limits:</b>	47 CFR §1.1310
<b>RF Radiation Exposure Guidelines:</b>	FCC OST/OET Bulletin Number 65
<b>EUT Frequency Band:</b>	5745-5825MHz
<b>Limits for General Population/Uncontrolled Exposure in the band of:</b>	300 – 1500 GHz
<b>Power Density Limit:</b>	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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Low Channel (5745 MHz):

Power = 5.93 dBm, Antenna Gain = 1.9 dBi, Prediction distance 20cm, **S = 0.0012 mW/cm<sup>2</sup>**

**Result**

The Above Result had shown that Device complied with 1 mW/cm<sup>2</sup> Power density requirement for distance of 20cm.

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Date : Jan 7th, 2013