MPE Calculation

For Shanghai Flaircomm Technologies; Model: BTMDC8751, BTMDC751

FCC ID: TQ6BTMDC751

RF Exposure Requirements: 47CFR§1.1307(b)
RF Radiation Exposure Limits: 47CFR§1.1310
RF Radiation Exposure Guidelines: 47CFR§2.1091
EUT Frequency Band: 2402 – 2480MHz
Limits for General Population/Uncontrolled Exposure in the band of: 1500 – 100000MHz
Power Density Limit: 1.0mW/cm^2;

Equation: $S=PG/4PiR^2$
Where, S=Power Density
P=Power Input to Antenna
G=Antenna Gain
R=distance to the center of radiated antenna

Low Channel (2402MHz):
Power=3.33dBm, Antenna Gain=0.54dBi, Prediction distance 20cm
$S=(2.15*1.13)/(4*3.14*20^2)=0.0005$ mW/cm^2

Result
The above result had shown that device complied with 1.0mW/cm^2 Power density requirement for distance of 20 cm.

Completed By: Peter Cai
Data: October 11, 2010