Maximum Permissible Exposure Compliance Requirement

1. LIMITS

The limit for general population/uncontrolled exposures

Frequency	**Power density(mW/cm^2)**	**Averaging time(minutes)**
300MHz~1.5GHz	F/1500	30
1.5GHz~100GHz	1.0	30

Frequency(MHz)	**Power density(mW/cm^2)**	**Averaging time(minutes)**
5740	1.0	30
5840	1.0	30

2. EUT RF Exposure

The Max Conducted Peak Output Power is 18.32dBm (67.92mW) in channel 148 of 802.11a;

The EUT has two antennas. But in 802.11a mode, only one antenna is working.

16dB logarithmic terms convert to numeric result is nearly 39.81.

According to the formula S= $\frac{PG}{4R^2\pi}$,we can calculate S which is MPE.

Now , R=20 cm, P=67.92mW, G=39.81;

So,S= $\frac{PG}{4R^2\pi} = \frac{67.92*39.81}{4*400*3.14}$ =0.54 **mW/cm^2＜1 mW/cm^2**

So the MPE comply the requirement.