## **Maximum Permissible Exposure Compliance Requirement**

## 1. LIMITS

The limit for general population/uncontrolled exposures

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

Frequency(MHz)	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
2402	1.0	30
2441	1.0	30
2480	1.0	30

## 2. EUT RF Exposure

The Max Conducted Peak Output Power is 5.97dBm (3.95mW) in 2402MHz of GFSK;

The antenna gain of this antenna is 4.74dBi.

4.74dB logarithmic terms convert to numeric result is nearly 2.98.

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

Now, R=20 cm, P=3.95mW, G=2.98;

So,S= 
$$\frac{PG}{4R^2\pi} = \frac{3.95 * 2.98}{4 * 400 * 3.14} = 0.00234 \text{ mW/cm}^2$$

So the MPE comply the requirement.