

# FCC RF Exposure Report

## FCC ID:2AC23-WC16

Applicant's name ..... : Hui Zhou Gaoshengda Technology Co., LTD

Address ..... : NO.75 Zhongkai Development Area, Huizhou,  
Guangdong

Equipment ..... : WIFI Module

Trade Mark ..... : GSD

Model ..... : WC16R2601

Ratings ..... : I/P: DC 3.3V

Testing Laboratory ..... : DongGuan ShuoXin Electronic Technology Co., Ltd.

Address ..... : Zone A, 1F, No. 6, XinGang Road YuanGang Street,  
XinAn District, ChangAn Town, DongGuan City,

According ..... : FCC Guidelines for Human Exposure IEEE C95.1 &  
FCC Part 2.1091

## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PIFA	N/A	3
2	N/A	N/A	PIFA	N/A	3

## TEST RESULTS

### 2.4G WIFI

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	25.65	367.28223	0.14586	1	Complies

### 5G Band UNII-1

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	18.78	75.5092	0.02999	1	Complies

### 5G Band UNII-3

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	18.45	69.9842	0.02779	1	Complies

### For 2.4G+5G simultaneous transmission MPE:

$$0.14586/1+0.02999/1=0.17585$$

Note: the calculated distance is 20 cm.