

FCC RF EXPOSURE REPORT

FCC ID: V7TI12

Project No. : 1406C040C
Equipment : Wireless Access Point
Model : i12
Applicant : SHENZHEN TENDA TECHNOLOGY CO., LTD.
**Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan
Road, Nanshan District, Shenzhen, China.
518052**
**According: : FCC Guidelines for Human Exposure IEEE
C95.1**

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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	Printed	N/A	2
2	N/A	N/A	Printed	N/A	2

TEST RESULTS

EUT :	Wireless Access Point	Model Name :	i12
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	24.14	259.4179	0.08183713	1	Complies
2	1.5849	24.18	261.8183	0.08259436	1	Complies
2	1.5849	23.95	248.3133	0.07833401	1	Complies

EUT :	Wireless Access Point	Model Name :	i12
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	24.03	252.9298	0.07979035	1	Complies
2	1.5849	29.95	988.5531	0.31185332	1	Complies
2	1.5849	26.79	477.5293	0.15064349	1	Complies

EUT :	Wireless Access Point	Model Name :	i12
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	25.99	397.1915	0.12529980	1	Complies
2	1.5849	29.52	895.3648	0.28245572	1	Complies
2	1.5849	26.6	457.0882	0.14419506	1	Complies

EUT :	Wireless Access Point	Model Name :	i12
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	23.57	227.5097	0.07177123	1	Complies
2	1.5849	28.5	707.9458	0.22333170	1	Complies
2	1.5849	26.8	478.6301	0.15099076	1	Complies

Note: the calculated distance is 20 cm.