



FCC RF EXPOSURE REPORT

FCC ID: V7TF1200

Project No. : 1406C099
Equipment : Wireless AC1200 Dual-band Router
Model : F1200
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

BTL Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 8319-6000

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 Filled Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
0	Tenda	Q5115	Internal	N/A	3.09
1	Tenda	Q5115	Internal	N/A	3.09

TEST RESULTS

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
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
3.09	2.0370	21.3	134.8963	0.05469535	1	Complies
3.09	2.0370	21.2	131.8257	0.05345033	1	Complies
3.09	2.0370	21.5	141.2538	0.05727306	1	Complies

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
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
3.09	2.0370	20.3	107.1519	0.04344606	1	Complies
3.09	2.0370	21.8	151.3561	0.06136919	1	Complies
3.09	2.0370	21.4	138.0384	0.05596936	1	Complies

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
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
3.09	2.0370	23.26	211.8361	0.08589154	1	Complies
3.09	2.0370	26.06	403.6454	0.16366295	1	Complies
3.09	2.0370	24.31	269.7739	0.10938314	1	Complies

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
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
3.09	2.0370	20.31	107.3989	0.04354621	1	Complies
3.09	2.0370	23.41	219.2805	0.08890995	1	Complies
3.09	2.0370	20.92	123.5947	0.05011300	1	Complies

Note: the calculated distance is 20 cm.