



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.

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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 Filled Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain(dBi) |
|------|--------------|------------|--------------|-----------|-----------|
| 0 | Tenda | Q5115 | Internal | N/A | 3.25 |
| 1 | Tenda | Q5115 | Internal | N/A | 3.25 |

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 A MODE / CH149, CH157, CH165 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3.25 | 2.1135 | 23.4 | 218.7762 | 0.09203444 | 1 | Complies |
| 3.25 | 2.1135 | 23.2 | 208.9296 | 0.08789221 | 1 | Complies |
| 3.25 | 2.1135 | 23 | 199.5262 | 0.08393641 | 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 N20 MODE_Total / CH149, CH157, CH165 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3.25 | 2.1135 | 25.51 | 355.6313 | 0.14960647 | 1 | Complies |
| 3.25 | 2.1135 | 25.56 | 359.7493 | 0.15133883 | 1 | Complies |
| 3.25 | 2.1135 | 25.56 | 359.7493 | 0.15133883 | 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 N40 MODE_ Total /CH151, CH159 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3.25 | 2.1135 | 25.56 | 359.7493 | 0.15133883 | 1 | Complies |
| 3.25 | 2.1135 | 25.66 | 368.1290 | 0.15486396 | 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 AC N20 MODE_ Total /CH149, CH157, CH165 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3.25 | 2.1135 | 25.76 | 376.7038 | 0.15847121 | 1 | Complies |
| 3.25 | 2.1135 | 25.56 | 359.7493 | 0.15133883 | 1 | Complies |
| 3.25 | 2.1135 | 25.56 | 359.7493 | 0.15133883 | 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 AC N40 MODE_ Total /CH151, CH159 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3.25 | 2.1135 | 25.91 | 389.9420 | 0.16404023 | 1 | Complies |
| 3.25 | 2.1135 | 25.71 | 372.3917 | 0.15665720 | 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 AC N80 MODE_ Total /CH155 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3.25 | 2.1135 | 26.16 | 413.0475 | 0.17376022 | 1 | Complies |

Note: the calculated distance is 20 cm.