



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: V7TF300

Project No. : 1305C011
Equipment : Wireless N300 Home Router
Model : F300
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD.
**Address : Tenda Industrial Park, No.34-1, Shilong Rd.,
Shiyan Town, Bao'an District, Shenzhen, P.R.
China 518108**

According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

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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	Tenda	Q5092	Dipole Antenna	N/A	4.74
2	Tenda	Q5046	Dipole Antenna	N/A	5.15



TEST RESULTS

EUT:	Wireless N300 Home Router	Model Name :	F300
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	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
5.15	3.2734	18.85	76.7361	0.04999774	1	Complies
5.15	3.2734	18.74	74.8170	0.04874728	1	Complies
5.15	3.2734	18.63	72.9458	0.04752809	1	Complies

EUT:	Wireless N300 Home Router	Model Name :	F300
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	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
5.15	3.2734	22.13	163.3052	0.10640214	1	Complies
5.15	3.2734	22.15	164.0590	0.10689327	1	Complies
5.15	3.2734	22.12	162.9296	0.10615742	1	Complies



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EUT:	Wireless N300 Home Router	Model Name :	F300
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M 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
5.15	3.2734	24.8	301.9952	0.19676614	1	Complies
5.15	3.2734	24.94	311.8890	0.20321248	1	Complies
5.15	3.2734	24.74	297.8516	0.19406641	1	Complies

EUT:	Wireless N300 Home Router	Model Name :	F300
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /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
5.15	3.2734	24.86	306.1963	0.19950343	1	Complies
5.15	3.2734	24.82	303.3891	0.19767437	1	Complies
5.15	3.2734	24.64	291.0717	0.18964892	1	Complies