

FCC RF EXPOSURE REPORT

FCC ID: V7TFH456

Project No. : 1506C024
Equipment : 300Mbps Ultimate Coverage Wi-Fi Router
Model : FH456
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)	Note
CON0	N/A	N/A	Dipole	N/A	5.00	TX/RX
CON1/ CON2	N/A	N/A	Dipole	N/A	5.00	TX/RX
CON0T	N/A	N/A	Dipole	N/A	N/A	N/A
CON1T	N/A	N/A	Dipole	N/A	N/A	N/A

Note: Only antenna CON0 and CON1/CON2 are used, antenna CON0T and CON1T do not work.

TEST RESULTS

EUT :	300Mbps Ultimate Coverage Wi-Fi Router	Model Name :	FH456
Temperature :	25 °C	Relative Humidity:	60 %
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	3.1623	18.62	72.7780	0.04580895	1	Complies
5	3.1623	18.38	68.8652	0.04334613	1	Complies
5	3.1623	18.67	73.6207	0.04633940	1	Complies

EUT :	300Mbps Ultimate Coverage Wi-Fi Router	Model Name :	FH456
Temperature :	25 °C	Relative Humidity:	60 %
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	3.1623	18.98	79.0679	0.04976802	1	Complies
5	3.1623	18.38	68.8652	0.04334613	1	Complies
5	3.1623	18.71	74.3019	0.04676817	1	Complies

EUT :	300Mbps Ultimate Coverage Wi-Fi Router	Model Name :	FH456
Temperature:	25 °C	Relative Humidity:	60 %
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
5	3.1623	22.69	185.7804	0.11693657	1	Complies
5	3.1623	22.07	161.0646	0.10137955	1	Complies
5	3.1623	22.36	172.1869	0.10838031	1	Complies

EUT :	300Mbps Ultimate Coverage Wi-Fi Router	Model Name :	FH456
Temperature:	25 °C	Relative Humidity:	60 %
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
5	3.1623	22.58	181.1340	0.11401195	1	Complies
5	3.1623	22.41	174.1807	0.10963529	1	Complies
5	3.1623	22.33	171.0015	0.10763422	1	Complies

Note: the calculated distance is 20 cm.