

FCC RF EXPOSURE REPORT

FCC ID: V7TAC15

Project No. : 1507C071
Equipment : AC1900 Smart Dual-Band Gigabit WiFi Router
Model : AC15
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:

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

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 antenna

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	Tenda	N/A	Dipole	N/A	3.0	2.4G
2	Tenda	N/A	Dipole	N/A	3.0	2.4G
3	Tenda	N/A	Dipole	N/A	3.0	2.4G
1	Tenda	N/A	Dipole	N/A	3.0	5G
2	Tenda	N/A	Dipole	N/A	3.0	5G
3	Tenda	N/A	Dipole	N/A	3.0	5G

2.4G Only MPE

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	1.9953	29.23	837.5293	0.33262154	1	Complies

5G Only MPE

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	1.9953	21.16	130.6171	0.05187408	1	Complies

So for 2.4G+5G simultaneous transmission MPE:

$$0.3326/1 + 0.0519/1 = 0.3845 < 1$$

Note: the calculation distance is 20cm.