FCC RF EXPOSURE REPORT

FCC ID: V7TA18

Project No.	**: 1710C164**
Equipment	**: 1) AC1200 Dual Band WiFi Repeater; 2) AC750 Dual Band WiFi Repeater**
Model	**: 1) A18 ; 2) A15**
Applicant	**: SHENZHEN TENDA TECHNOLOGY CO., LTD.**
Address	**: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road,Nanshan District, Shenzhen China**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

BTL INC.

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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 radiator
R = distance to the center of radiation of the antenna

Table for Filed Antenna

2.4G:

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

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

5G:

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

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

TEST RESULTS

EUT：	AC1200 Dual Band WiFi Repeater	Model Name :	A18
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

2.4G WIFI

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	29.38	886.9619	0.34431	1	Complies

5G Band UNII-1

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	20.68	116.9499	0.4645	1	Complies

5G Band UNII-3

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	21.79	151.0080	0.5997	1	Complies

For 2.4G+5G simultaneous transmission MPE:

0.34431/1+0.5997/1=0.94401

Note: the calculated distance is 20 cm.