

FCC RF EXPOSURE REPORT

FCC ID: TE7WA850REV6

Project No. : 1802C079
Equipment : 300Mbps Wi-Fi Range Extender
Model : TL-WA850RE
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4),
Central Science and Technology Park,
Nanshan Shenzhen,518057 China

According: : FCC Guidelines for Human Exposure IEEE
C95.1 & FCC Part 2.1091

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 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	TP-LINK	N/A	Internal Antenna	N/A	2
2	TP-LINK	N/A	Internal Antenna	N/A	2

TEST RESULTS

EUT :	300Mbps Wi-Fi Range Extender	Model Name :	TL-WA850RE
Temperature :	25 °C	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
2	1.5849	22.59	181.5516	0.05727	1	Complies

Note: the calculated distance is 20 cm.