



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: V7TUH150**

**Project No. : 1307C119**  
**Equipment : High Power Wireless N150 USB Adapter**  
**Model : UH150; UH151**  
**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	50000967	Dipole Antenna	SMA	4.94
2	Tenda	50000966	Dipole Antenna	SMA	4.94



## TEST RESULTS

EUT:	High Power Wireless N150 USB Adapter	Model Name :	UH150
Temperature:	24 °C	Relative Humidity :	60%
Pressure:	1016 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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.94	3.1189	8.15	6.5313	0.00405462	1	Complies
4.94	3.1189	8.12	6.4863	0.00402671	1	Complies
4.94	3.1189	8.06	6.3973	0.00397146	1	Complies

EUT:	High Power Wireless N150 USB Adapter	Model Name :	UH150
Temperature:	24 °C	Relative Humidity :	60%
Pressure:	1016 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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.94	3.1189	7.87	6.1235	0.00380146	1	Complies
4.94	3.1189	7.95	6.2373	0.00387213	1	Complies
4.94	3.1189	7.69	5.8749	0.00364712	1	Complies



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EUT:	High Power Wireless N150 USB Adapter	Model Name :	UH150
Temperature:	24 °C	Relative Humidity :	60%
Pressure:	1016 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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.94	3.1189	7.82	6.0534	0.00375794	1	Complies
4.94	3.1189	7.58	5.7280	0.00355591	1	Complies
4.94	3.1189	7.66	5.8345	0.00362202	1	Complies

EUT:	High Power Wireless N150 USB Adapter	Model Name :	UH150
Temperature:	24°C	Relative Humidity :	60 %
Pressure:	1016hPa	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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.94	3.1189	7.68	5.8614	0.00000000	1	Complies
4.94	3.1189	7.82	6.0534	0.00375794	1	Complies
4.94	3.1189	7.64	5.8076	0.00360537	1	Complies