EN 62479 Test Report

Project No.	:	1705C214
Equipment	:	150Mbps High Gain Wireless USB Adapter
Test Model	:	U2
Applicant	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address	:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 51805.

Date of Receipt	:	May 25, 2017
Date of Test	:	May 25, 2017 ~ Jun. 26, 2017
Issued Date	:	Jun. 27, 2017
Tested by	:	BTL Inc.

Testing Engineer : Shawn Xiao
(Shawn Xiao)

Technical Manager : David Mao
(David Mao)

Authorized Signatory : Steven Lu
(Steven Lu)

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Testing Laboratory
2640

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-ETSP-2-1705C214	Original Issue.	Jun. 27, 2017

1. CERTIFICATION

Equipment	:	150Mbps High Gain Wireless USB Adapter
Brand Name	:	Tenda
Model Name	:	U2
Applicant	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Manufacturer	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address	:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 51805
Date of Test	:	May 25, 2017 ~ Jun. 26, 2017
Test Sample	:	Engineering Sample
Standard(s)	:	EN 62479: 2010

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-ETSP-2-1705C214) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	150Mbps High Gain Wireless USB Adapter	
Brand Name	Tenda	
Model Name	U2	
Model Difference	N/A	
Power Source	Supplied from PC USB port.	
Power Rating	DC 5V	
Product Description	Modulation Technology	802.11b: DSSS 802.11g: OFDM 802.11n: OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 150 Mbps
	EIRP Power (Max.)	802.11b: 12.54dBm 802.11g: 12.84 dBm 802.11n (20MHz): 12.76 dBm 802.11n (40MHz): 12.78 dBm
	Categorization	☒Receiver category 1 ☐Receiver category 2 ☐Receiver category 3

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

CH01 - CH13 for 802.11b, 802.11g, 802.11n(20MHz) CH03 - CH11 for 802.11n(40MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	06	2437	11	2462
02	2417	07	2442	12	2467
03	2422	08	2447	13	2472
04	2427	09	2452		
05	2432	10	2457		

3. Table for Filed Antenna

Ant.	Mfr/Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	N/A	5

3. MAXIMUM PERMISSIBLE EXPOSURE

3.1 APPLICABLE STANDARD

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 62479 –Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz). General public

3.2 INTRODUCTION

This generic standard applies to low power electronic and electrical apparatus for which no dedicated product – or product family standard regarding human exposure to electromagnetic fields applies.
The frequency range covered is 10 MHz to 300 GHz.
The object of this standard is to demonstrate the compliance of such apparatus with the basic restrictions on exposure of the general public to electric, magnetic and electromagnetic fields and contact current.

3.2 COMPLIANCE CRITERIA

All electromagnetic fields
If the average power emitted by the apparatus operating in the frequency range 10 MHz to 300 GHz is less than or equal top 20 mW and the transmitting peal power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.
Averaging time is 6 minutes in the frequency range 10 MHz to 10 GHz. The average time is equal to 68/f1.05 minutes (where f is in GHz) in the frequency range 10 GHz to 300 GHz.
If the total supply power or the input power to the circuitry producing the greatest emissions in the device is less than or equal to 20 mW then it is assumed that the emitted power is less that 20 mW.
Pulse modulated electromagnetic fields with pulse duration less than 30 micro seconds
For pulse of duration less than 30 microseconds at frequencies between 300 MHz and 10 GHz, there is also a basic restriction on SA. This is 2mJ kg-1 in any 10g of tissue in the head. For most pulses, the SAR restriction will be more stringent, but for pulses with a repetition frequency of less that 100 Hz, the SA restriction will predominate. For devices producing pulses with repetition rates below 100 Hz, the average power should be less that 20 x prf mW (prf in Hz).

4. CALCULATED RESULT AND LIMIT

EIRP Power (dBm)	EIRP Power (mW)	EIRP Power Limit (mW)	Result
12.84	19.231	20	Pass

RF exposure assessment has been performed above to prove that this unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC)