



## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200487605

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# RF Exposure Evaluation Report

**Application No.:** SZCR2412004876AT  
**Applicant:** SHENZHEN TENDA TECHNOLOGY CO., LTD.  
**Address of Applicant:** 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Manufacturer:** SHENZHEN TENDA TECHNOLOGY CO., LTD.  
**Address of Manufacturer:** 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Equipment Under Test (EUT):**  
**EUT Name:** BE3600 Dual-Band Wi-Fi 7 Router  
**Model No.:** RE3L, TE3L ♣  
♣ Please refer to section 3 of this report which indicates which model was actually tested and which were electrically identical.  
**Standard(s) :** EN IEC 62311:2020  
BS EN IEC 62311:2020  
EN 50385:2017  
BS EN 50385:2017  
**Date of Receipt:** 2024-12-24  
**Date of Test:** 2025-02-14 to 2025-03-05  
**Date of Issue:** 2025-03-05

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu

Keny Xu  
EMC Laboratory Manager



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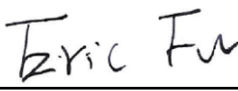
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-03-05		Original

Authorized for issue by:				
				
		Leo Lai/Project Engineer		
				
		Eric Fu/Reviewer		



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### 3 General Information

#### 3.1 General Description of EUT

Power supply:	DC 12V from AC/DC adapter Model: TEKA-TC120150EU, TEKA-TC120150BS Input: 100-240V~50/60Hz 0.5A Max Output: DC 12.0V 1.5A 18.0W
Cable(s):	RJ45 Cable: 100cm
For 2.4G WIFI:	
Operation Frequency:	802.11b/g/n/ax/be 20: 2412MHz to 2472MHz, 802.11n/ax/be 40: 2422MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n/ax/be 20: 13, 802.11n/ax/be 40:9
Antenna Type:	External Antenna
Antenna Gain:	ANT1: 4.2 dBi, ANT2: 4.2 dBi
For 5G WIFI:	
Operation Frequency / Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels)
Operation Frequency / Number of channels (40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels)
Operation Frequency / Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channel)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM,



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	256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM); 802.11be: OFDMA with enhancements (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM, 4096-QAM)
Channel Spacing:	802.11a/n/ac/ax/be 20: 20MHz; 802.11n/ac/ax/be 40: 40MHz; 802.11ac/ax/be 80: 80MHz; 802.11ac/ax/be 160: 160MHz
DFS Function:	Master
TPC Function:	Support TPC function
Antenna Type:	External Antenna
Antenna Gain:	Band 1&2: ANT1: 6.32 dBi, ANT2: 6.32 dBi, ANT3: 6.32 dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### Declaration of EUT Family Grouping:

Model No.: RE3L, TE3L

Only the model RE3L was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on product model name.



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### 3.2 Test Location

All tests were performed at:

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No tests were sub-contracted.

### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 3.4 Deviation from Standards

None



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### 3.5 Abnormalities from Standard Conditions

None.

### 3.6 Other Information Requested by the Customer

None.



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### 4 Applicability of compliance assessment methods

EN 50385 Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (110 MHz to 100 GHz) is to demonstrate the compliance of apparatus with the basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields as well as induced and contact current.

EN IEC 62311 Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz–300 GHz) is to demonstrate the compliance of apparatus with the basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields as well as induced and contact current.



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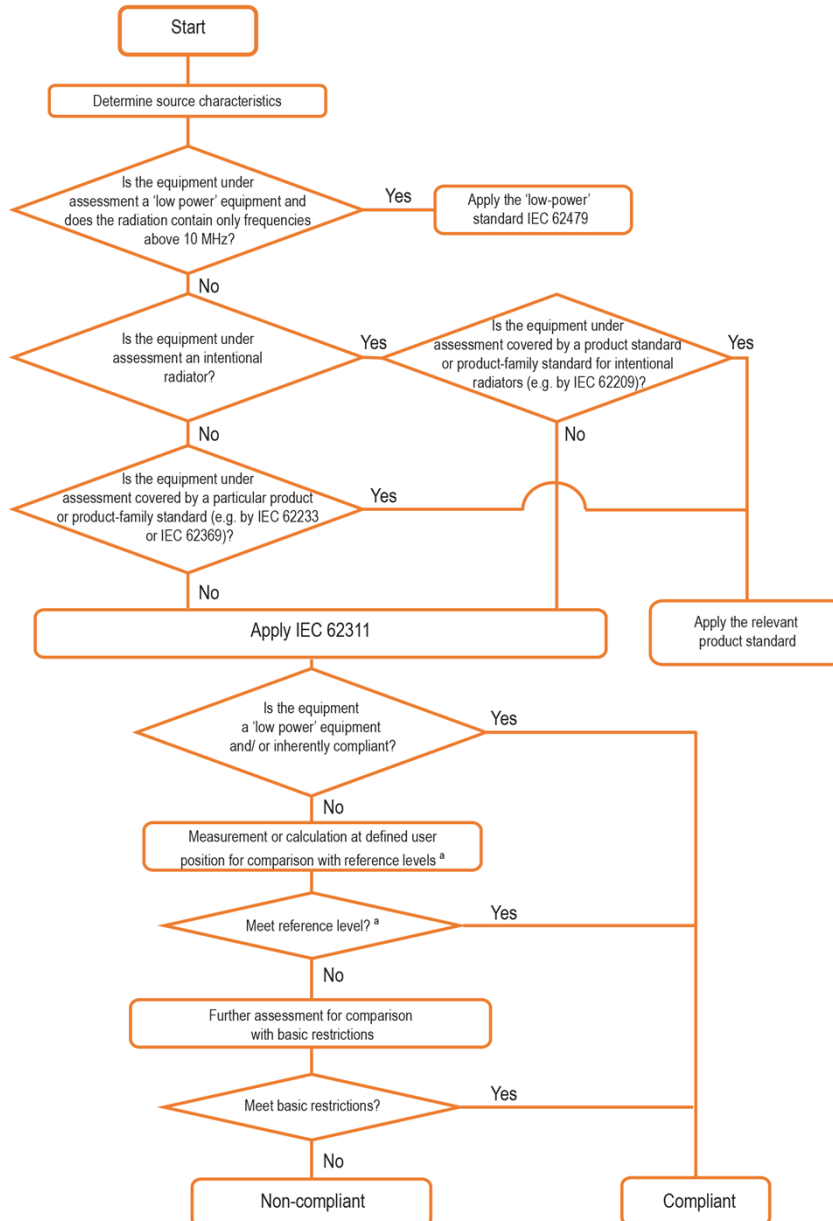
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### Assessment flowchart:



## 4.1 Limit

According to EN IEC 62311:2020 and EN 50385:2017, the criteria listed in the below table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified table 2 of Council Recommendation 2014/53/EU.

**Reference levels for electric, magnetic and electromagnetic fields  
(0 Hz to 300 GHz, unperturbed rms values)**

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density $S_{eq}$ (W/m <sup>2</sup> )
0-1 Hz	—	$3,2 \times 10^4$	$4 \times 10^4$	—
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	—
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	—
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	—
0,8-3 kHz	$250/f$	5	6,25	—
3-150 kHz	87	5	6,25	—
0,15-1 MHz	87	$0,73/f$	$0,92/f$	—
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	—
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

### Notes:

1.  $f$  as indicated in the frequency range column.



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### 4.2 Test Method

The antenna of the product, under normal use condition is at least 20cm away from the body of the user. Warning statement to the user for keeping 20cm separation distance and the prohibition of operating to a person has been printed on the user manual. So, this product under normal use is located on electromagnetic far field between the human body.

#### Far Field Calculation Formula

$$E = \frac{\sqrt{30PG(\theta, \phi)}}{r}$$

$G$  = antenna gain relative to an isotropic antenna  
 $\theta, \phi$  = elevation and azimuth angles to point of investigation  
 $r$  = distance from observation point to the antenna

### 4.3 Test Data and Test Result

Distance to human  
body (r): 20cm



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### For 2.4G WIFI:

EIRP (dBm)	EIRP (mw)	E Field Strength (V/m)	E Field Strength Limit (V/m)	Result
19.04	80.17	7.75	61.00	Pass

Note: Refer to report No. SZCR241200487603 for EUT test Max EIRP value.

### For 5G WIFI:

#### ANT1&ANT3

EIRP (dBm)	EIRP (mw)	E Field Strength (V/m)	E Field Strength Limit (V/m)	Result
22.90	194.98	12.09	61.00	Pass

#### ANT1&ANT2

EIRP (dBm)	EIRP (mw)	E Field Strength (V/m)	E Field Strength Limit (V/m)	Result
22.90	197.24	12.16	61.00	Pass

#### ANT2&ANT3

EIRP (dBm)	EIRP (mw)	E Field Strength (V/m)	E Field Strength Limit (V/m)	Result
22.90	197.24	12.16	61.00	Pass

Note: Refer to report No. SZCR241200487604 for EUT test Max EIRP value.



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### 5 EUT Photos

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2412004876AT

- End of the Report -



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