

# FCC RF EXPOSURE REPORT

**FCC ID: 2BCFY-ERO1BEMPRO**

Test Report No.....: RF250516014-01-006

Product(s) Name.....: Wireless Home Mesh

Model(s).....: ERO1BEM PRO

Trade Mark.....: HEIGHTS

Applicant.....: HEIGHTS TELECOM T LTD

Address.....: Ha-Sakhlav 6,7680900 Iruv, Israel


Receipt Date.....: 2025.06.20

Test Date.....: 2025.06.20~2025.09.11

Issued Date.....: 2025.09.12

Standards.....: FCC Guidelines for Human Exposure IEEE C95.1  
FCC Title 47 Part 2.1091  
KDB 447498 D01 General RF Exposure Guidance v06

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Black Ding	Tim Zhang	
<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

## History of this test report

Original Report Issue Date: 2025.09.12

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

## 1.. 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

For BLE:

Antenna	Antenna gain	Antenna Type
Ant1	3.97dBi	PCB Antenna
Ant2	3.83dBi	PCB Antenna

For 2.4GHz\_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	3.47dBi	PCB Antenna
Ant2	3.32dBi	PCB Antenna
Total Ant(non-BF)	1.78dBi	PCB Antenna
Total Ant(BF)	4.78dBi	PCB Antenna

For 5GHz\_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	4.72dBi	PCB Antenna
Ant2	4.68dBi	PCB Antenna
Ant3	4.73dBi	PCB Antenna
Ant4	4.19dBi	PCB Antenna
Total Ant(non-BF)	1.14dBi	PCB Antenna
Total Ant(BF)	6.91dBi	PCB Antenna

For 6E\_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	4.24dBi	PCB Antenna
Ant2	4.92dBi	PCB Antenna
Ant3	4.84dBi	PCB Antenna

Ant4	4.35dBi	PCB Antenna
Total Ant(non-BF)	1.16dBi	PCB Antenna
Total Ant(BF)	6.57dBi	PCB Antenna

## 2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm <sup>2</sup> )	
2.4G Wifi	2412-2462	29.31	1.78	31.09	1285.29	1	0.2558
5G Wifi	5180-5825	29.75	1.14	30.89	1227.4	1	0.2443
6E Wifi	5925-7125	27.67	1.16	28.83	763.84	1	0.1520
BLE (ANT1)	2402-2480	8.06	3.97	12.03	15.96	1	0.0032
BLE (ANT2)	2402-2480	8.27	3.83	12.10	16.22	1	0.0032

Note: 1. The calculated distance is 20 cm.  
2. The Wifi function can transmit at the same time with the BLE function

The ratio=  $MPE_{2.4G\ Wifi}/limit + MPE_{5G\ Wifi}/limit + MPE_{6E\ Wifi}/limit + MPE_{BLE}/limit$   
 $= 0.2558/1 + 0.2443/1 + 0.1520/1 + 0.0032/1 + 0.0032/1 = 0.6585 < 1.0$

As the sum of MPE ratios for all simultaneous transmitting antennas is  $\leq 1.0$ , simultaneous transmission MPE test exclusion will be applied.

Result: Complies

## Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

## Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

Tel: 0755-26024411

Email: service@hy-lab.cn

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(END OF REPORT)