

FCC RF EXPOSURE REPORT

FCC ID: 2BCFYHT-880BEI

Test Report No.....: RF250517002-01-006

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

Model(s).....: HT-880BEI

Trade Mark.....: HEIGHTS

Applicant.....: Heights Telecom T LTD

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

Receipt Date.....: 2025.05.23

Test Date.....: 2025.05.23~2025.07.15

Issued Date.....: 2025.07.16

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:	
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History of this test report

Original Report Issue Date: 2025.07.16

- ☒ 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
Ant0	1.17dBi	PCB Antenna
Ant1	1.25dBi	PCB Antenna

For 2.4GHz_WiFi:

Antenna	Antenna gain	Antenna Type
Ant0	1.28dBi	PCB Antenna
Ant1	1.31dBi	PCB Antenna
Ant2	1.32dBi	PCB Antenna
Ant3	1.22dBi	PCB Antenna

For 5GHz_WiFi:

Antenna	Antenna gain	Antenna Type
Ant0	1.18dBi	PCB Antenna
Ant1	1.15dBi	PCB Antenna
Ant2	1.19dBi	PCB Antenna
Ant3	1.03dBi	PCB Antenna

For 6E_WiFi:

Antenna	Antenna gain	Antenna Type
Ant0	1.17dBi	PCB Antenna
Ant1	1.10dBi	PCB Antenna
Ant2	1.06dBi	PCB Antenna
Ant3	1.09dBi	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 ²)	
2.4G Wifi Ant0	2412-2462	23.55	1.28	24.83	304.09	1	0.060
2.4G Wifi Ant1	2412-2462	23.58	1.31	24.89	308.32	1	0.061
2.4G Wifi Ant2	2412-2462	24.13	1.32	25.45	350.75	1	0.070
2.4G Wifi Ant3	2412-2462	24.39	1.22	25.61	363.92	1	0.072
5G Wifi Ant0	5180-5825	23.86	1.18	25.04	319.15	1	0.063
5G Wifi Ant1	5180-5825	23.87	1.15	25.02	317.69	1	0.063
5G Wifi Ant2	5180-5825	23.94	1.19	25.13	325.84	1	0.065
5G Wifi Ant3	5180-5825	23.34	1.03	24.37	273.53	1	0.054
6E Wifi Ant0	5925-7125	20.56	1.17	21.73	148.94	1	0.030
6E Wifi Ant1	5925-7125	20.73	1.10	21.83	152.41	1	0.030
6E Wifi Ant2	5925-7125	20.74	1.06	21.80	151.36	1	0.030
6E Wifi Ant3	5925-7125	20.33	1.09	21.42	138.68	1	0.028
BLE Ant0	2402-2480	7.91	1.17	9.08	8.09	1	0.002
BLE Ant1	2402-2480	7.89	1.25	9.14	8.20	1	0.002

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

$$\begin{aligned}
 \text{The ratio} &= \text{MPE}_{2.4\text{G Wifi Ant0}}/\text{limit} + \text{MPE}_{2.4\text{G Wifi Ant1}}/\text{limit} + \text{MPE}_{2.4\text{G Wifi Ant2}}/\text{limit} + \text{MPE}_{2.4\text{G Wifi Ant3}}/\text{limit} + \text{MPE}_{5\text{G Wifi Ant0}}/\text{limit} + \\
 &\text{MPE}_{5\text{G Wifi Ant1}}/\text{limit} + \text{MPE}_{5\text{G Wifi Ant2}}/\text{limit} + \text{MPE}_{5\text{G Wifi Ant3}}/\text{limit} + \text{MPE}_{6\text{E Wifi Ant0}}/\text{limit} + \text{MPE}_{6\text{E Wifi Ant1}}/\text{limit} + \text{MPE}_{6\text{E Wifi Ant2}}/\text{limit} + \\
 &\text{MPE}_{6\text{E Wifi Ant3}}/\text{limit} + \text{MPE}_{\text{BLE Ant0}}/\text{limit} + \text{MPE}_{\text{BLE Ant1}}/\text{limit} \\
 &= 0.060/1 + 0.061/1 + 0.070/1 + 0.072/1 + 0.063/1 + 0.063/1 + 0.065/1 + 0.054/1 + 0.030/1 + 0.030/1 \\
 &\quad + 0.030/1 + 0.028/1 + 0.002/1 + 0.002/1 = 0.63 < 1.0
 \end{aligned}$$

As the sum of MPE ratios for all simultaneous transmitting antennas is ≤ 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.

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(END OF REPORT)