

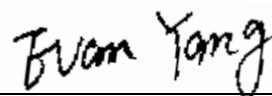
# FCC RF EXPOSURE REPORT

## FCC ID: 2ARNB-HMWB01

**Project No.** : 2405G010  
**Equipment** : Wi-Fi and Bluetooth Module  
**Brand Name** :   
Hoymiles,  
**Test Model** : HM-WB01  
**Series Model** : N/A  
**Applicant** : Hoymiles Power Electronics Inc.  
**Address** : No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China  
**Manufacturer** : Hoymiles Power Electronics Inc.  
**Address** : No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China  
**Factory** : FN-LINK TECHNOLOGY LIMITED  
**Address** : No.8, Litong RD., Liuyang Economic & Technical Development Zone, Changsha, CHINA  
**Date of Receipt** : Jun. 12, 2024  
**Date of Test** : Jun. 14, 2024 ~ Jul. 02, 2024  
**Issued Date** : Aug. 22, 2024  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: SSL2024061259  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091  
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

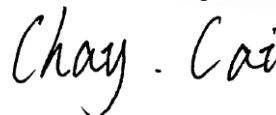
The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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**REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2405G010	R00	Original Report.	Aug. 22, 2024	Valid

## 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

## 2. ANTENNA SPECIFICATION

For LE & WiFi 2.4G:

Brand	P/N	Antenna Type	Connector	Gain (dBi)
Wutong Holding Group Co., Ltd	A6040312	Whip	IPEX MHF Plug	4.57
DONGGUAN CITY SLEing INTEL-TECH CO., LTD	A6040284	Whip	MHF	-0.89
DONGGUAN SLEing INTEL-TECH CO., LTD	A6040433	Whip	MHF	-1.05
DONGGUAN SLEing INTEL-TECH CO., LTD	A6040436	Dipole	MHF	3.06
Kunshan Innwave Communication Technology Co.,Ltd.	A6040457	Whip	IPEX	3.16

Note:

- (1) The antenna gain is provided by the manufacturer.
- (2) EUT collocates with five kinds of antenna, and the antenna type is the same. Found the highest gain: 4.57 dBi antenna (P/N: A6040312) to test.

### 3. CALCULATED RESULT

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.57	2.8642	7.55	5.6885	0.00208	1	Complies

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.57	2.8642	18.19	65.9174	0.02405	1	Complies

Note: The calculated distance is 20 cm.

**End of Test Report**