

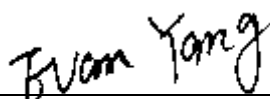
# FCC RF EXPOSURE REPORT

## FCC ID: 2AJUYS200118

**Project No.** : 2406C190  
**Equipment** : 2-IN-1 WIRELESS THERMOMETER AND PH READER  
**Brand Name** : Mainstays  
**Test Model** : FL1058  
**Series Model** : N/A  
**Applicant** : Velong Enterprises Co.,Ltd  
**Address** : No.3-7 west of 5th Najin Rd., North of 4th Huoda Rd., Nahou Industrial Zone, Yangdong District, Yangjiang City  
**Manufacturer** : Ningbo Shuanghe Hongsheng Electronic Technology Co.,Ltd  
**Address** : 2 Binxi South Road, Dayin Town Yuyao City, Zhejiang Province China  
**Factory** : Ningbo Shuanghe Hongsheng Electronic Technology Co.,Ltd  
**Address** : 2 Binxi South Road, Dayin Town Yuyao City, Zhejiang Province China  
**Date of Receipt** : Jun. 24, 2024  
**Date of Test** : Jun. 27, 2024 ~ Jul. 10, 2024  
**Issued Date** : Aug. 01, 2024  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG20240624125  
**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-2-2406C190	R00	Original Report.	Aug. 01, 2024	Valid

## 1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

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

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Shenzhen Longdazhi Technology Co., LTD	N/A	Helical	N/A	2

Note: The antenna gain is provided by the manufacturer.

### 3. TEST RESULTS

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
2	1.5849	-16.13	0.0246	0.00001	1	Complies

Note:

- 1) Max. Peak Output Power(dBm) = Field Strength+20log(d)-104.8, where d is the measurement distance, Max. Field Strength@3m=79.17dBuV/m. So Max. Peak Output Power(dBm)= -16.09 dBm
- 2) The calculated distance is 20 cm.

**End of Test Report**