

Address:

Approved By:

# **RF Exposure Report**

#### For

**VELONG ENTERPRISES CO., LTD Applicant Name:** 

No.3-7 west of 5th Najin Rd., North of 4th Huoda Rd., Nahou Address:

Industrial Zone, Yangdong District, Yangjiang City, China

**EUT Name:** 2-IN-1WIRELESS THERMOMETER

**Brand Name:** N/A Model Number: FL1058

**Issued By** 

**Company Name:** BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF230908R00502

Test Standards: 47 CFR Part 2 Subpart J Section 2.1091

FCC ID: 2AJUYMS200117

**Test Conclusion:** Pass

Test Date: 2023-09-08 to 2023-09-21

Date of Issue: 2023-09-22

Elma Kang Prepared By:

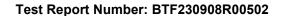
Elma.yang / Project Engine

2023-09-22 Date:

Ryan.CJ / EMC Manager

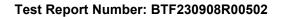
Date: 2023-09-22

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.





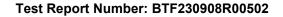
Revision History				
Version	Issue Date	Revisions Content		
R_V0	2023-09-22	Original		
Note:	Once the revision has b	een made, then previous versions reports are invalid.		





### **Table of Contents**

1. Introduction
1.1 Identification of Testing Laboratory
1.2 Identification of the Responsible Testing Location
1.3 Laboratory Condition
1.4 Announcement
2. Product Information
2.1 Application Information
2.2 Manufacturer Information
2.3 Factory Information
2.4 General Description of Equipment under Test (EUT)
3. Test Requirement
3.1 Assessment Result





### 1. Introduction

### 1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tanto Community, Songgang Street, Bao'an District, Shenzhen, China			
Phone Number:	+86-0755-23146130		
Fax Number:	+86-0755-23146130		

### 1.2 Identification of the Responsible Testing Location

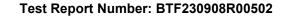
Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.			
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China				
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China			
FCC Registration Number:	518915			
Designation Number:	CN1330			

### 1.3 Laboratory Condition

Ambient Temperature:	20℃ to 25℃
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

#### 1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





## 2. Product Information

### 2.1 Application Information

Company Name:	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, China	

### 2.2 Manufacturer Information

Company Name:	Ningbo Shuanghe Hongsheng Electronic Technology Co.,Ltd
Address:	2 Binxi South Road, Dayin Town Yuyao City, Zhejiang Province, China.

## 2.3 Factory Information

Company Name:	Ningbo Shuanghe Hongsheng Electronic Technology Co.,Ltd		
Address:	2 Binxi South Road, Dayin Town Yuyao City, Zhejiang Province, China.		

### 2.4 General Description of Equipment under Test (EUT)

EUT Name	2-IN-1WIRELESS THERMOMETER
Under Test Model Name	FL1058
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	FL1058TX_PCB_V1
Software and Firmware Version	V0



Test Report Number: BTF230908R00502

## 3. Test Requirement

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b), Limits for Maximum Permissible Exposure (MPE),

Frequency range	Electric field	Magnetic field strength	Power density	Averaging time			
(MHz)	strength(V/m)	(A/m)	(mW/cm <sup>2</sup> ) (minutes)				
	(A) Limits for Occupational/Controlled Exposures						
0.3-3.0	614	1.63	*(100)	6			
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6			
30-300	61.4	0.163	1.0 6				
300-1500	-	-	f/300 6				
1500-100,000	-	-	5 6				
(B) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	1.63	*(100)	30			
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30			
30–300	27.5	0.073	0.2	30			
300-1500	-	-	f/1500	30			
1500-100,000	-	-	1.0	30			

Note: f = frequency in MHz

#### **EVALUATION METHOD**

Transmission formula:  $Pd = (Pout*G)/(4*pi*r^2)$ 

Where

Pd = power density in mW/cm<sup>2</sup>, Pout = output power to antenna in mW, G = gain of antenna in linear scale;

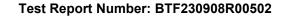
Pi = 3.1416, R = distance between observation point and center of the radiator in cm

### 3.1 Assessment Result

$\boxtimes$	Passed		Not	<b>Applicable</b>
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Frequency (MHz)	Туре	Conducted Power (dBm)	Maximum Tune- up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
433.92	OOK	2.44	5	0.0015	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.







BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

www.btf-lab.com

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