



# RF EXPOSURE EVALUATION REPORT

**FCC ID** : SZGGG01  
**Equipment** : Wireless Device  
**Model Name** : GG01  
**Applicant** : Weifang Goertek Electronics Co., Ltd  
                  Gaoxin 2 Road, Free Trade Zone, Weifang, Shandong, 261205,  
                  P.R.China  
**Standard** : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full

Approved by: Cona Huang / Deputy Manager



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## **Table of Contents**

1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT) .....	4
2. MAXIMUM EIRP AMONG PRODUCTION UNITS .....	4
3. RF EXPOSURE LIMIT INTRODUCTION .....	5
4. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION .....	5



## History of this test report



## 1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
Equipment Name	Wireless Device
Model Name	GG01
FCC ID	SZGGG01
Wireless Technology and Frequency Range	60GHz: 57GHz – 71 GHz
Mode	60GHz: 2ASK

Reviewed by: Jason Wang

Report Producer: Paula Chen

## 2. Maximum EIRP among production units

Wireless	Maximum EIRP power (dBm)
60GHz	5.80



### **3. RF Exposure Limit Introduction**

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
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>(B) Limits for General Population/Uncontrolled Exposure</b>				
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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

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

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

### **4. Radio Frequency Radiation Exposure Evaluation**

Band	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
60GHz	5.80	3.80	0.001	1.000

### **Conclusion:**

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.