

# TEST REPORT

**Application No.:** GZCR2208001056AT  
**Applicant:** The House of Marley. LLC  
**Address of Applicant:** 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States  
**Manufacturer:** The House of Marley. LLC  
**Address of Manufacturer:** 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States  
**Factory:**  
1. Dongguan Kailai Electronic Co., Ltd.  
2. YING TONG (VIETNAM) ELECTRONIC TECHNOLOGY COMPANY LIMITED  
**Address of Factory:**  
1. Building 2, No.6, Baisha Road, Changping, Dongguan City, Guangdong Province, China  
2. Plot No. CN02-1-2, Lot No. CN02, Binh Xuyen II Industrial Park, Ba Hien Commune, Binh Xuyen District, Vinh Phuc Province, Vietnam

### Equipment Under Test (EUT):

**EUT Name:** Champion 2  
**Model No.:** EM-JE132  
**Trade Mark:** MARLEY  
**Standard(s) :** 47 CFR Part 1.1310  
KDB 680106 D01  
**Date of Receipt:** 2022-08-25  
**Date of Test:** 2022-09-06 to 2022-09-26  
**Date of Issue:** 2023-05-26

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

*Ricky Liu*

Ricky Liu  
Manager



Revision Record			
Version	Report No.	Date	Remark
01	GZCR220800105604	2023-05-26	Original

<b>Authorized for issue by:</b>			
	Kevin Zhang		
	Kevin Zhang/Project Engineer		
	Vico Cui		
	Vico Cui/Reviewer		



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## 2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Magnetic field strength	47 CFR Part 1.1310	KDB 680106 D01	47 CFR Part 1.1310 & KDB 680106 D01	Pass

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below:  
 Model: HJ 13330  
 Rated: DC 3.7 V, 500mAh, 1.85Wh

Test Voltage: AC120 V, 60 Hz for wireless charging by DC Power Adapter and Wireless Charging Pad refer to section 4.2

Cable(s): Type C input ports  
 DC output pins

Antenna Type: Loop Antenna

Modulation Type: Load Modulation

Frequency Range: 117.36 kHz to 145.76 kHz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	MEAN WELL	Model: RSP-75-5; Input: AC 100-240V, 0.9A, 50/60Hz; Output: DC 5V, 15A max.	/
Wireless Charging Pad	SAMSUNG	EP-1100	RF7M506VG3ZCIS

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Magnetic field strength	MF:U=0.13dB,EF:U=0.4dB

### 4.4 Test Location

All tests were performed at:  
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Magnetic field strength					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19
Electric and Magnetic Field Probe-Analyzer(1Hz-400kHz)	Narda	EHP-50F	EMC2143	2021-12-27	2023-12-26
Electric and Magnetic Field Probe-Analyzer(9kHz-30MHz)	Narda	EHP-200A	SEM022-18	2022-05-25	2023-05-24

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23



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## 6 Radio Spectrum Matter Test Results

### 6.1 Magnetic field strength

Test Requirement 47 CFR Part 1.1310 & KDB 680106 D01

Test Method: KDB 680106 D01

Limit:

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
<p>F=frequency in MHz            *=Plane-wave equivalent power density            RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).</p>				



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### 6.1.1 E.U.T. Operation

Operating Environment:

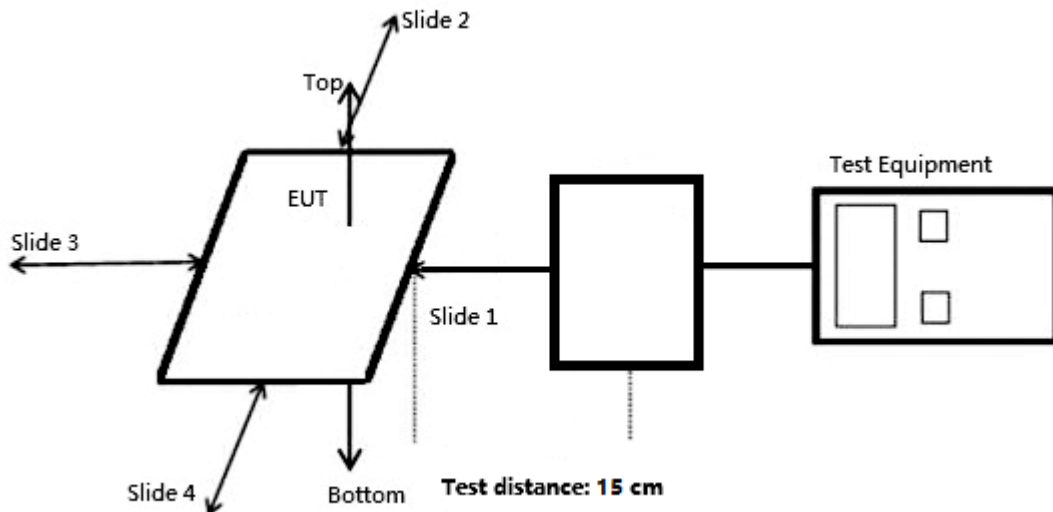
Temperature: 26.9 °C Humidity: 53.5 % RH Atmospheric Pressure: 1006 mbar

### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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Final test	04	This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge. Only the worst case of the both battery options (Option 1) was recorded in this report.
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### 6.1.3 Test Setup Diagram



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**6.1.4 Measurement Procedure and Data**

Wireless charging box has been charged at zero charge, intermediate charge, and full charge.

**Electric Field Emissions**

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(V/m)			Limit (V/m)
			zero charge	intermediate charge	full charge	
122.37kHz which is the worst case within the operation frequency range	15	Side 1	1.259	1.317	1.539	<=87
		Side 2	1.157	1.207	1.274	
		Side 3	1.108	1.193	1.254	
		Side 4	1.144	1.238	1.307	
		Top	1.003	1.106	1.194	
		Bottom	N/A	N/A	N/A	

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			Limit (A/m)
			zero charge	intermediate charge	full charge	
122.37kHz which is the worst case within the operation frequency range	15	Side 1	0.086	0.092	0.103	<=5
		Side 2	0.073	0.084	0.095	
		Side 3	0.052	0.058	0.067	
		Side 4	0.071	0.082	0.093	
		Top	0.039	0.046	0.052	
		Bottom	N/A	N/A	N/A	

\*Remark: The test distance 15 cm was the worst case of all the distance declared in user manual by applicant.

The product is a desktop operation device, Therefore the emission on the bottom side not tested in this report.



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### 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR220800105604



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### 8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2208001056AT

- End of the Report -



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