



TEST REPORT

Application No.: GZCR2201000052AT
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: One Drop (wireless charger)
Model No.: EM-JC000
Trade Mark: MARLEY
Standard(s) : 47 CFR Part 1.1310
KDB 680106 D01
Date of Receipt: 2022-01-13
Date of Test: 2022-02-23
Date of Issue: 2022-04-13

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



Revision Record			
Version	Report No.	Date	Remark
01	GZCR220100005202	2022-04-13	Original

Authorized for issue by:				
		Kevin Zhang		
		Kevin Zhang /Project Engineer		
		Ricky Liu		
		Ricky Liu/Reviewer		

2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Electric Field & 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.

3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents.....	4
4 General Information	5
4.1 Details of E.U.T.	5
4.2 Description of Support Units.....	5
4.3 Measurement Uncertainty	5
4.4 Test Location	5
4.5 Test Facility	6
4.6 Deviation from Standards.....	6
4.7 Abnormalities from Standard Conditions	6
5 Equipment List	7
6 Radio Spectrum Matter Test Results	8
6.1 Electric Field & Magnetic field strength	8
6.1.1 E.U.T. Operation	8
6.1.2 Test Mode Description	9
6.1.3 Test Setup Diagram	9
6.1.4 Measurement Procedure and Data	10
7 Test Setup Photo.....	11
8 EUT Constructional Details (EUT Photos)	12



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V 3A / DC 9V 2A (QC/AFC)
Cable(s):	Type C input ports with unshielded cables (0.8m)
Test Voltage:	AC 120 V, 60 Hz powered by DC adapter refer to section 4.2
Operational Frequency:	113.800 kHz to 138.163 kHz
Modulation Type:	Load Modulation
Antenna Type:	Loop Antenna
Remark:	Test were conducted in all load modes (mobile phone, earphone box and Wireless changing resistor load) with different output power and the worst mode (charging for mobile phone) with max output power was reported in each test item.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC Power Adapter	Cullpower	DBS15QC (Input: AC 100-240V, 50/60 Hz; Output: DC5V/3A, DC9V/2A, DC12V/1.5A)	/
Wireless changing resistor load	/	5W/7.5W/10W/15W	/
Earphone	Apple	A2566	REF.No.SEA10DO0
Mobile Phone	SAMSUNG	GT-I9500	RV1D82X8W9X

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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Guangzhou Branch EMC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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

Electric Field & 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	2021-12-29	2022-12-28

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05



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6 Radio Spectrum Matter Test Results

6.1 Electric Field & 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 ²)	Averaging time (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 ²)	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 ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

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).

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 52 % RH Atmospheric Pressure: 1018 mbar



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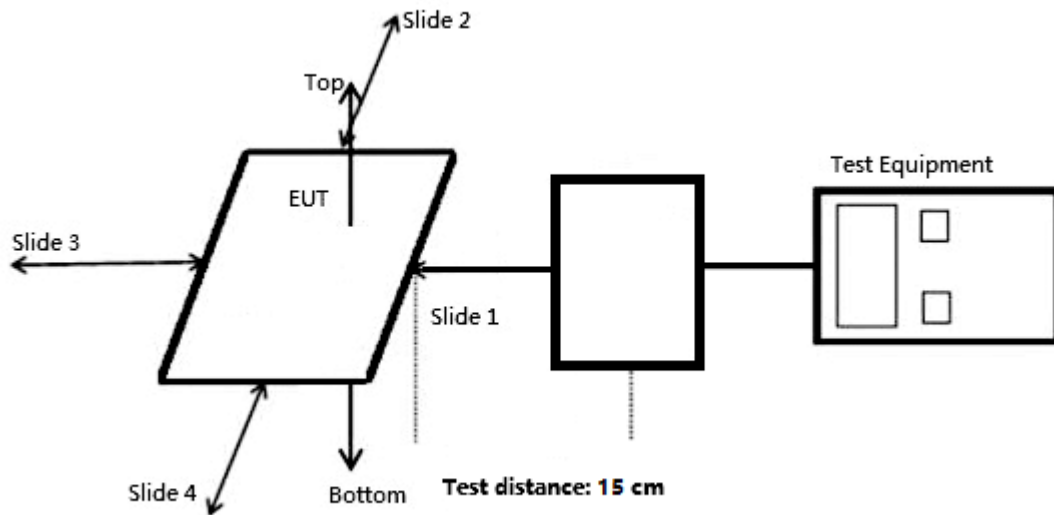
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6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging (5W with charging box of earbuds)
Pre-scan	01	Charge mode_Keep the EUT charging (7.5W with Wireless changing resistor load)
Final test	02	Charge mode_Keep the EUT charging (10W with mobile phone)
Pre-scan	03	Charge mode_Keep the EUT charging (5W with mobile phone)

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Output Voltage= DC 5 V; The max output power = 10 W; Calculation of resistor value=2.5 Ω

Electric Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)
			unload	Half load	full load	
134.765kHz which is the worst case within the operation frequency range	15	Side 1	1.3635	1.4035	1.5369	<=307
		Side 2	0.7226	0.8602	0.9488	
		Side 3	0.5561	0.6773	0.8495	
		Side 4	0.9044	1.0042	1.0069	
		Top	0.4556	0.7213	0.9907	

Magnetic Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)
			unload	Half load	full load	
134.765kHz which is the worst case within the operation frequency range	15	Side 1	0.0587	0.0824	0.1122	<=0.815
		Side 2	0.0472	0.0683	0.0716	
		Side 3	0.0355	0.0498	0.0640	
		Side 4	0.0462	0.0569	0.0705	
		Top	0.0692	0.1417	0.2738	

Mobile phone 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)			50 % Limit (V/m)
			zero charge	intermediate charge	full charge	
127.929kHz which is the worst case within the operation frequency range	15	Side 1	0.7062	0.7436	0.7011	<=307
		Side 2	0.6478	0.7541	0.6994	
		Side 3	0.6525	0.6858	0.6409	
		Side 4	0.7506	0.8117	0.7983	
		Top	1.3173	1.3904	1.1642	

Magnetic Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)
			zero charge	intermediate charge	full charge	
127.929kHz which is the worst case within the operation frequency range	15	Side 1	0.0156	0.0168	0.0146	<=0.815
		Side 2	0.0154	0.0163	0.0155	
		Side 3	0.0156	0.0158	0.0148	
		Side 4	0.0164	0.0195	0.0144	
		Top	0.0452	0.0529	0.0438	

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



7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR220100005202



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2201000052AT

- End of the Report -