

EMC-TRF-03 Rev 1.1 Report No.: GZCR230600064903

Page: 1 of 8 FCC ID: PVB-EMJE123

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2306000649AT **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: GuangZhou U&I Technology Company Limited

Address of Factory: Buliding 1, Mingsheng Industrial Park, South 2nd Road, Shibei Avenue,

Dashi Town, Panyu District, Guangzhou, Guangdong, China

Equipment Under Test (EUT):

EUT Name: LITTLE BIRD
Model No.: EM-JE123
Trade Mark: Marley

Standard(s): KDB447498 D01 General RF Exposure Guidance v06

 Date of Receipt:
 2023-06-29

 Date of Evaluation:
 2023-07-17

 Date of Issue:
 2023-08-23

Evaluation Result: Pass*





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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



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Revision Record							
Version	Report No.	Date	Remark				
01	GZCR230600064903	2023-08-23	Original				

Authorized for issue by:		
	Jim Li	
	Jim Li/Project Engineer	-
	vius cui	
	Vico Cui/Reviewer	



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2 Evaluation Summary

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
RF Exposure	KDB447498 D01 General RF Exposure	KDB447498 D01 General RF Exposure	KDB447498 D01 General RF Exposure	Pass			
•	Guidance v06	Guidance v06	Guidance v06				

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: DC 3.7V powered by built-in battery as below for normal working:

ST 500909

Rated: DC 3.7V, 35mAh. DC 5 V for charging.

Cable(s): For earphone:

DC input ports.

Type-C charging port. 2402MHz to 2480MHz

Modulation Type: GFSK, pi/4DQPSK, 8DPSK

Number of Channels: 79 Channel Spacing: 1MHz

Spectrum Spread

Operation Frequency:

Technology: Frequency Hopping Spread Spectrum(FHSS)

Antenna Type: Chip Antenna

Antenna Gain: 3.4 dBi

Antenna Number: 1

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech 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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4.3 Facility

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

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.

• 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.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

KDB447498D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.2 Conclusion

For left earbud.

The Maximum Conducted Peak Output Power is				0.25	dBm in channel		2.402	GHz;	
0.25	dBm logarithmic terms convert to numeric result is nearly 1.0						mW		
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]									
General RF Exposure = 1.059 mW / 5 mm) x √	2.402	GHz =	0.328		;		
				SAR requirement:		S =	3.0		;
[] < [.	□ < □ . □ the SAR report is not required.								

For right earbud.

The Maximum Conducted Peak Output Power is				0.91	dBm in channel		2.480	GHz;	
0.91	dBm logarithmic terms convert to numeric result is nearly 1.233						mW		
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$									
General RF Exposure =		1.233	mW / 5 mm) x √	2.480	GHz =	0.388		;
				SAR requirement:		S =	3.0	0	;
$\mathbb{I} \ \mathbb{I} \ < \mathbb{I} \ $. $\mathbb{I} \ $ the SAR report is not required.									

Note: Refer to report No. GZCR230600064902 for EUT test Max Conducted Peak Output Power value.



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EUT Constructional Details (EUT Photos) 6

Refer to External and Internal Photos for GZCR2306000649AT

- End of the Report -



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