

# RF EXPOSURE EVALUATION REPORT

**Application No.:** GZCR2212001603AT  
**Applicant:** ACE BAYOU CORPORATION  
**Address of Applicant:** 3700 Desire Parkway, New Orleans, LA 70126, United States  
**Manufacturer:** ACE BAYOU CORPORATION  
**Address of Manufacturer:** 3700 Desire Parkway, New Orleans, LA 70126, United States  
**Factory:** ACE BAYOU CORPORATION  
**Address of Factory:** 3700 Desire Parkway, New Orleans, LA 70126, United States  
**Equipment Under Test (EUT):**  
**EUT Name:** X rocker Chair  
**Model No.:** XPBT41M3, XPBT21M3, 51XXXXX, 07XXXXX (X=0~9) ♣  
 ♣ Please refer to section 2 of this report which indicates which item was actually evaluated and which were electrically identical.  
**Trade Mark:** X rocker  
**Standard(s) :** KDB447498 D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2022-12-07  
**Date of Evaluation:** 2022-12-30 to 2022-12-30  
**Date of Issue:** 2023-01-05

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

*Ricky Liu*

Ricky Liu  
Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR221200160303	2023-01-05	Original

Authorized for issue by:			
			
		Michael Huang/Project Engineer	
			
		Vico Cui/Reviewer	



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## 2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498 D01 General RF Exposure Guidance v06	KDB447498 D01 General RF Exposure Guidance v06	KDB447498 D01 General RF Exposure Guidance v06	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.

♣ **Model No.:** XPBT41M3, XPBT21M3, 51XXXXX, 07XXXXX (X=0~9)

Only the model **XPBT41M3** was evaluated.

According to the declaration from the applicant, models XPBT21M3, 51XXXXX, 07XXXXX (X=0~9) are identical in the electrical circuit design, layout, components used and internal wiring with model XPBT41M3, with only difference on the model name, color and outer decoration. And model XPBT41M3 is with two more loudspeaker than model XPBT21M3.

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## 4 General Information

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

Power supply: AC 100-240V 50/60Hz \ DC 12V (Supply power for the AC\DC adapter)  
 Rated Power: below 75W  
 Highest operating frequency: More than 1GHz  
 AC\DC adapter:  
 Model: ZL-A024W1202000  
 Input: AC 100-240V 50/60Hz, 1.0A Max  
 Output: DC 12V, 2000mA

Cable(s): 2 Pins, AC input  
 2 wires x about 1.8m unscreened DC output cable.  
 (The AC\DC adapter output cable to EUT).  
 AUX in lines: about 3.0m unscreened.

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: 5.3 Bluetooth Version / Classic (BR/EDR) mode only

Spectrum Spread Technology: Frequency Hopping Spread Spectrum(FHSS)

Modulation Type: GFSK, pi/4DQPSK

Number of Channels: 79

Channel Spacing: 1MHz

Antenna Type: PIFA

Antenna Gain: -0.58 dBi

Hardware Version: REV1.6.3

### 4.2 Evaluating 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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## 4.3 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 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

#### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 5.2 RF Exposure Evaluation

#### 5.2.1 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  $\leq 50$  mm are determined by:

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

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- 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  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.2.2 Conclusion

The Max Conducted Peak Output Power is 2.51 dBm on the lowest channel 2.402 GHz

2.51 dBm logarithmic terms convert to numeric result is nearly 1.78 mW

According to the formula, calculate the test exclusion thresholds:

$$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \left[ \sqrt{f(\text{GHz})} \right]$$

$$\text{General RF Exposure} = (1.78 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.552 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

Note: Refer to report No. GZCR221200160302 for EUT test Max Conducted Peak Output Power value.

## 6 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2212001603AT

- End of the Report -