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RF Exposure Evaluation Report

Report No.: CQASZ20220801314E-02
Applicant: Zhongshan City Cironbaby Co.,Ltd.
Address of Applicant: No.6, Yongxing North Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong, China

Equipment Under Test (EUT):
EUT Name: Electric baby bouncer chair
Model No.: CR010A-1
Test Model No.: CR010A-1
Brand Name: N/A
FCC ID: 2A6PA-CR010A
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2022-08-01
Date of Test: 2022-08-01 to 2022-08-19
Date of Issue: 2022-9-8
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Lewis Zhou

Tested By: _____

(Lewis Zhou)

Timo Lei

Reviewed By: _____

(Timo Lei)

Jack Ai

Approved By: _____

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220801314E-02	Rev.01	Initial report	2022-9-8

2 Contents

	Page
1 VERSION	2
2 CONTENTS	3
3 GENERAL INFORMATION	4
3.1 CLIENT INFORMATION	4
3.2 GENERAL DESCRIPTION OF EUT	4
3.3 GENERAL DESCRIPTION OF BT CLASSIC	4
4 MPE EVALUATION	5
4.1 RF EXPOSURE COMPLIANCE REQUIREMENT	5
4.1.1 <i>Limits</i>	5
4.1.2 <i>Test Procedure</i>	5
4.1.3 <i>EUT RF Exposure</i>	6

3 General Information

3.1 Client Information

Applicant:	Zhongshan City Cironbaby Co.,Ltd.
Address of Applicant:	No.6, Yongxing North Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong, China
Manufacturer:	Zhongshan City Cironbaby Co.,Ltd.
Address of Manufacturer:	No.6, Yongxing North Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong, China
Factory:	Zhongshan City Cironbaby Co.,Ltd.
Address of Factory:	No.6, Yongxing North Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong, China

3.2 General Description of EUT

Product Name:	Electric baby bouncer chair
Model No.:	CR010A-1
Test Model No.:	CR010A-1
Trade Mark:	N/A
Software Version:	V1.0
Hardware Version:	V1.0
EUT Power Supply:	Power by DC 5V for Adapter

3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	FCC_assist
Antenna Gain:	PCB antenna
Cable loss:	-0.58dBi

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure

1) For BT Classic

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.32	0±1	1.0	1.26
Middle(2441MHz)	1.24	1.5±1	2.5	1.78
Highest(2480MHz)	0.96	1.0±1	2.0	1.58
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.83	-1.0±1	0	1.00
Middle(2441MHz)	0.95	1.0±1	2.0	1.58
Highest(2480MHz)	0.87	1.0±1	2.0	1.58
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.77	-1.0±1	0	1.00
Middle(2441MHz)	1.23	1.5±1	2.5	1.78
Highest(2480MHz)	0.52	0.5±1	1.5	1.41

The maximum output power of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20220801314E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's Bluetooth module is more than 20cm away from the human body.

*** END OF REPORT ***