



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-TRF-03 Rev 1.1

Report No.: GZCR240100011406

Page: 1 of 9

FCC ID: MNJ-BT099

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2401000114HS
Applicant: DOREL JUVENILE GROUP
Address of Applicant: 2525 State Street Columbus, Indiana, 47201-7494, United States
Manufacturer: DOREL JUVENILE GROUP
Address of Manufacturer: 2525 State Street Columbus, Indiana, 47201-7494, United States
Factory: SUZHOU LUCKY INTELLIGENT TECHNOLOGY CO., LTD
Address of Factory: NO.3-4 BUILDING, NO.78 YANGJIA ROAD, LUJIA TOWN, KUNSHAN, JIANGSU, CHINA
Product Name: Starling Smart Bassinet
Model No.: BT099HCV, BT099HDF ♣
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark: MAXI-COSI
Standard(s) : 47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2024-01-30
Date of Evaluation: 2024-03-07
Date of Issue: 2024-05-15

Evaluation Result:

Pass*

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

Ricky Liu

Ricky Liu
Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

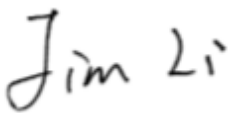
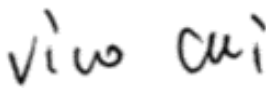
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR240100011406	2024-05-15	Original

Authorized for issue by			
			
		Jim Li/Project Engineer	
			
		Vico Cui/Reviewer	



2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	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.

♣ Declaration of EUT Family Grouping:

Model No.: BT099HCV, BT099HDF

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on fabric color.

Therefore, only one model BT099HCV was tested in this report.

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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5 V powered by AC/DC adapter as below:
 Model: MYX-0501500LUS
 Input: AC 100-240 V, 50/60Hz, 0.5A max
 Output: DC 5 V, 1.5 A

Cable(s): For main unit:
 DC input ports
 For AC/DC adapter:
 AC plug;
 DC output cables (Unshielded, 1.4m)
 Please refer to test report GZCR240100011402 for 2.4GHz Wi-Fi & BLE

RF Characterize: Please refer to test report GZCR240100011403 for 5GHz Wi-Fi
 Please refer to test report GZCR240100011405 for BT

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Evaluating Location

All tests were performed at:
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
 Guangdong, China 510663
 Tel: +86 20 82155555
 No tests were sub-contracted.



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 Guangzhou Branch EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
 中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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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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Guangzhou Branch EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]}{[\sqrt{f(\text{GHz})}]} \leq 3.0$$
 for 1-g SAR and ≤ 7.5 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 calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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

5.1.2 Conclusion

Normal use condition for

Distance between antenna and body: $>50\text{mm}$ according to below photo



Distance between BT ANT and human body



Distance between Wi-Fi ANT and human body

For BLE

The Maximum Conducted Peak Output Power is -0.57 dBm in channel 2.440 GHz;
 -0.57 dBm logarithmic terms convert to numeric result is nearly 0.877 mW

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

 General RF Exposure = $0.877 \text{ mW} / 50 \text{ mm}) \times \sqrt{2.440 \text{ GHz}} = 0.274$ ①;
 SAR requirement: $S = 3.0$ ②;
 $\therefore ① < ②$. $\therefore$ the SAR report is not required.

For BT

The Maximum Conducted Peak Output Power is -0.68 dBm in channel 2.441 GHz;
 -0.68 dBm logarithmic terms convert to numeric result is nearly 0.855 mW

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

 General RF Exposure = $0.855 \text{ mW} / 50 \text{ mm}) \times \sqrt{2.441 \text{ GHz}} = 0.027$ ①;
 SAR requirement: $S = 3.0$ ②;
 $\therefore ① < ②$. $\therefore$ the SAR report is not required.

For 2.4GHz Wi-Fi

16.95 dBm logarithmic terms convert to numeric result is nearly 49.545 mW

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

 General RF Exposure = $49.545 \text{ mW} / 50 \text{ mm}) \times \sqrt{2.437 \text{ GHz}} = 1.547$ ①;
 SAR requirement: $S = 3.0$ ②;
 $\therefore ① < ②$. $\therefore$ the SAR report is not required.

For 5GHz Wi-Fi

The Maximum Conducted Peak Output Power is 6.34 dBm in channel 5.755 GHz;
 6.34 dBm logarithmic terms convert to numeric result is nearly 4.305 mW

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

 General RF Exposure = $4.305 \text{ mW} / 50 \text{ mm}) \times \sqrt{5.755 \text{ GHz}} = 0.207$ ①;
 SAR requirement: $S = 3.0$ ②;
 $\therefore ① < ②$. $\therefore$ the SAR report is not required.

$0.274/3+0.027/3+1.547/3+0.207/3=0.685 < 1$, so the SAR report is not required.

Note: Refer to reports No. GZCR240100011402, GZCR240100011403 and GZCR240100011405 for EUT test Max Conducted Peak Output Power value.



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 中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
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6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2401000114HS

- End of the Report -