

Report No: FCS202404167H01

Issued for

Applicant:	BADI TOYS FACTORY		
Address:	No.1, Lane 13, Longtian Community, Guangyi Street, Chenghai District, Shantou, China		
Product Name:	Remote control toy car		
Brand Name:	N/A		
Model Name:	BD002		
Series Model:	BDXXX (XXX indicates a range from '001' to '100') SL888-Y (Y indicates a range from '1' to '10')		
FCC ID:	2BF7L-BD002		
Test Standard:	FCC 47CFR §2.1093		
Issued By: Flux Compliance Service Laboratory			

Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan

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Т	EST RESULT CERTIFICATION
Applicant's Name:	BADI TOYS FACTORY
Address:	No.1, Lane 13, Longtian Community, Guangyi Street, Chenghai District, Shantou, China
Manufacture's Name:	BADI TOYS FACTORY
Address:	No.1, Lane 13, Longtian Community, Guangyi Street, Chenghai District, Shantou, China
Product Description	
Product Name:	Remote control toy car
Brand Name:	N/A
Model Name:	BD002
Series Model:	BDXXX (XXX indicates a range from '001' to '100') SL888-Y (Y indicates a range from '1' to '10')
Test Standards:	FCC 47CFR §2.1093 447498 D04 Interim General RF Exposure Guidance v01
show that the equipment under test applicable only to the tested samp. This report shall not be reproduct	ed except in full, without the written approval of Flux Compliance t may be altered or revised by Flux Compliance Service Laboratory,
Date (s) of performance of tests.:	24 Apr., 2024 ~ 29 Apr., 2024
Date of Issue:	29 Apr., 2024
Test Result	Pass
Tested by	: Scott shen
	(Scott Shen)
Reviewed by	Duke Own
	(Duke Qian)
Approved by	WILLIUSHO?

(Jack Wang)





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Revision History

Rev.	Issue Date	Contents
00	29 Apr., 2024	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Remote control toy car			
Brand	N/A			
Model Number	BD002			
Series Model(s)	BDXXX (XXX indicates a range from '001' to '100') SL888-Y (Y indicates a range from '1' to '10')			
Model Difference	Only different of the appearance and color.			
	The EUT is Remote control toy car			
Product Description	Operation Frequency:	2405 MHz, 2440 MHz, 2475 MHz		
	Modulation Type:	GFSK		
	Antenna gain:	0.17 dBi		
	Antenna Designation:	PCB Antenna		
Power Rating	DC 1.5V * 2 AAA battery			
Hardware Version	V1.0			
Software Version	V1.0			



1.2 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory		
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan		
Telephone:	+86-769-27280901		
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FCC Test Firm Registration Number: 514908

Designation number: CN0127

A2LA accreditation number: 5545.01

ISED Number: 25801 CAB ID: CN0097

Organization	CAB identifier	Scope / Recognition Date (yyyy-mm-dd)	Expiration (yyyy-mm-dd)
Baohao Technology Building 1 No. 15 Gongye West Road Hi-Tech Industrial Park Songsham Lake Dongguan, Guangdong. 523808 PRC. ISED#: 25801 Contact: Andy Yue andy-vue@fcs-lab.com	CN0097	RSS-102(RFExp) (2020-01-09) RSS-GEN (2020-01-09) RSS-210 (2020-01-09) RSS-247 (2020-01-09)	RECOGNIZED UNTIL: 2023-12-31 A2LA ISO/IEC 17025: 2017 Expires: 2023-12-31



2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \ cm} (d/20 \ \text{cm})^x & d \le 20 \ \text{cm} \\ ERP_{20 \ cm} & 20 \ \text{cm} < d \le 40 \ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

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

d = the separation distance (cm);



(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP 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 (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)		
0.3-1.34	1,920 R ² .		
1.34-30	3,450 R ² /f ² .		
30-300	3.83 R ² .		
300-1,500	0.0128 R ² f.		
1,500-100,000	19.2R².		



For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

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(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.



2.3 TEST RESULT

Turn up

Mode	Field strength (dBuV/m)	Power (dBm)	Turn up Power (EIRP)
GFSK	90.87	-4.33	-4±1dBm

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Protocol	Fre. (GHz)	Separation distance (cm)	Max ERP (dBm)	Max ERP (mW)	Limit (mW)	Result
GFSK	2.405	0.5	-5.15	0.305	1mW	Pass

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements.

- 2. dBm = dBuV/m 95.2 (@3m)
- 3. ERP = EIRP 2.15 dB
- 4. The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307.

* * * * * END OF THE REPORT * * * * *