

Shanghai Longqian Toys CO., LTD

SAR COMPLIANCE REPORT

Report Type:

FCC SAR assessment report

Model:

BBH-0001, BBH-0002, BBH-0003, BBH-0005, BBH-0007,
BBH-0008, BBH-011, BBH-013, BBH-016, BBH-017, BBH-018,
BBH-021, BBH-118A, BBH-718A, BBH-023, BBH-025, LQ-022

REPORT NUMBER:

220602496SHA-002

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Applicant: Shanghai Longqian Toys CO., LTD
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Manufacturer: Shanghai Longqian Toys CO., LTD
No. 1458, Qinwan Road, Jinshanwei Town, Jinshan District,
Shanghai, China

Factory: Shanghai Longqian Toys CO., LTD
No. 1458, Qinwan Road, Jinshanwei Town, Jinshan District,
Shanghai, China

FCC ID: 2A8HC-BBH-0002

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v07
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:**REVIEWED BY:**

Project Engineer
Sky Yang

Reviewer
Eric Li

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Revision History

Report No.	Version	Description	Issued Date
220602496SHA-002	Rev. 01	Initial issue of report	September 9, 2022

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	CHILDREN'S ELECTRONIC TOY CAR
Type/Model:	BBH-0001, BBH-0002, BBH-0003, BBH-0005, BBH-0007, BBH-0008, BBH-011, BBH-013, BBH-016, BBH-017, BBH-018, BBH-021, BBH-118A, BBH-718A, BBH-023, BBH-025, LQ-022
Description of EUT:	The EUT is a children's electronic toy car with Bluetooth function. All the models are same except the appearance of the product.
Rating:	12V Battery, 15V Charger, 20-30W Motor
Category of EUT:	Class B
EUT type:	<input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	0220623-102
Sample received date:	June 28, 2022
Date of test:	June 29, 2022 ~ July 28, 2022

1.2 Technical Specification

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth BR+EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, $\pi/4$ DQPSK
Channel Number:	79 (0 - 78)
Data Rate:	1Mbps
Channel Separation:	1 MHz
Antenna:	PCB Antenna, -0.58dBi Peak gain

TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 SAR Assessment

Test result: Pass

2.1 SAR Test Exclusion Limit

This method shall only be used at separation distances up to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula below:

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

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula above.

The example values shown in below are for illustration only.

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

2.2 Assessment Results

The highest EIRP adjusted with tune-up tolerance is -1.62dBm = 0.689mW
 0.689mW < 3mW (Test Exclusion Thresholds of 2450MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.

***** END *****