TEST REPORT

Product Name	**:**	**610（BT）balance car**
Model Number	**:**	**KD 3660PA/ KD 3660PA-2/ RT610/ HOVER25T-XXX / HOVER2020B-XXX/ HOVER3030B-XXX/ HOVER4040HB-V1/ HOVER4040HB-V2/ HOVER4040HB-XXX/ HOVER4040HT-XXX/ HOVER4040K-XXX/ HOVER5050B-XXX/ HOVER7050-XXX/ HOVERC2040-XXX/ AHO629373-XXX/ AHO629JUS-XXX/ HOVER2040S-XXX/ HOVER2040F-XXX/ HOVER2050-XXX/ HOVER3050-XXX/ HOVER3055-XXX (X can be letter A to Z indicate appearance color are identical to each other except model name, color of appearance and package artwork for trading purpose.)**
FCC ID	**:**	**2APO6OTTO610**

Prepared for	:	SHENZHEN OTTO INTELLIGENCE TECHNOLOGY CO LTD
Address	:	RM.101-102, BLDG, F13, F518 IDEA LAND, NO: 1065 BAOYUAN RD, XLXLANG AVENUE, BAO-AN, SHENZHEN, CHINA
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
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Report Number	:	EDG2207190089E00202R
Date(s) of Tests	:	September 26, 2022 to October 9, 2022
Date of issue	:	October 9, 2022

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1. TEST RESULT CERTIFICATION

Applicant	:	SHENZHEN OTTO INTELLIGENCE TECHNOLOGY CO LTD
Address	:	RM.101-102, BLDG, F13, F518 IDEA LAND, NO: 1065 BAOYUAN RD, XLXLANG AVENUE, BAO-AN, SHENZHEN, CHINA
Manufacturer	:	Zhejiang Chic Robot Technology Co.，Ltd.
Address	:	3rd Floor, #1 Plant, 468 Xinji Road, Qiu Bin Neighborhood, Wucheng District, Jinhua City, Zhejiang Province, People's Republic of China
EUT	:	610（BT）balance car
Model Name	:	KD 3660PA/ KD 3660PA-2/ RT610/ HOVER25T-XXX / HOVER2020B-XXX/ HOVER3030B-XXX/ HOVER4040HB-V1/ HOVER4040HB-V2/ HOVER4040HB-XXX/ HOVER4040HT-XXX/ HOVER4040K-XXX/ HOVER5050B-XXX/ HOVER7050-XXX/ HOVERC2040-XXX/ AHO629373-XXX/ AHO629JUS-XXX/ HOVER2040S-XXX/ HOVER2040F-XXX/ HOVER2050-XXX/ HOVER3050-XXX/ HOVER3055-XXX (X can be letter A to Z indicate appearance color are identical to each other except model name, color of appearance and package artwork for trading purpose.)
Trademark	:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
§ 15.247(i), § 2.1093	**PASS**

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : September 26, 2022 to October 9, 2022

Prepared by : Warren Deng

Warren Deng /Editor

Reviewer : Tim Dong

Tim Dong/ Supervisor

Approve & Authorized Signer :

Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2207190089E00202R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	610（BT）balance car
Model Number:	KD 3660PA/ KD 3660PA-2/ RT610/ HOVER25T-XXX / HOVER2020B-XXX/ HOVER3030B-XXX/ HOVER4040HB-V1/ HOVER4040HB-V2/ HOVER4040HB-XXX/ HOVER4040HT-XXX/ HOVER4040K-XXX/ HOVER5050B-XXX/ HOVER7050-XXX/ HOVERC2040-XXX/ AHO629373-XXX/ AHO629JUS-XXX/ HOVER2040S-XXX/ HOVER2040F-XXX/ HOVER2050-XXX/ HOVER3050-XXX/ HOVER3055-XXX (X can be letter A to Z indicate appearance color are identical to each other except model name, color of appearance and package artwork for trading purpose.) These model are the same expect the model name and appearance, Here select HOVER25T-PUR for test.
Sample:	1#
Device Type:	Bluetooth V5.0
Data Rate:	1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation 3Mbps for 8DPSK modulation
Modulation:	GFSK, π/4-DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	79 channels
Transmit Power Max:	-0.1 dBm(0.000977W)
Antenna Gain:	-0.84 dBi
Power supply:	DC 42.0V from Adapter 36V 2AH from battery
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[24] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain:-0.58 dBi

Transmit Frequency(MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	-1.61	-2±1	-1	0.2462	3
2441	GFSK	-1.48	-2±1	-1	0.2482	3
2480	GFSK	-1.79	-2±1	-1	0.2502	3
2402	Π/4-DQPSK	-0.74	-1±1	0	0.3100	3
2441	Π/4-DQPSK	-0.56	-1±1	0	0.3125	3
2480	Π/4-DQPSK	-0.92	-1±1	0	0.3150	3
2402	8DPSK	-0.25	-1±1	0	0.3100	3
2441	8DPSK	-0.1	-1±1	0	0.3125	3
2480	8DPSK	-0.5	-1±1	0	0.3150	3

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***