

YIWU ZHIHUIXING TOYS CO.,LTD

TEST REPORT

SCOPE OF WORK

EMC TESTING-7658

REPORT NUMBER

SZHH01911795-001

ISSUE DATE

23 APR 2024

PAGES

17

DOCUMENT CONTROL NUMBER

EN55014-1/2_d

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EMC VERIFICATION SUMMARY

Intertek Report No.: SZHH01911795-001

☒ E-TOY

☐ ITE

☐ Others

Model: 7658	Applicant: YIWU ZHIHUIXING TOYS CO.,LTD 189 QIUSHI ROAD, BEIYUAN DISTRICT, YIWU, ZHEJIANG, CHINA.		
Product Description: RIDE ON CAR	Sample Receipt Date: 9 Apr 2024		
Test Conducted Date: 9 Apr 2024 to 23 Apr 2024	ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH:		
☐ 1 st TEST ☒ 2 nd TEST	*EN 55014-1: 2017+A11:2020 & EN IEC 55014-1: 2021 *EN 55014-2: 1997/A2: 2008 & EN IEC 55014-2: 2021		
Test Site and Location:	Intertek Testing Services Shenzhen Ltd. (CNAS L0327) 1-2/F, Building B, Qiao'an Scientific Technology Park, Shangheng Community, Guanhu Subdistrict, Longhua District, Shenzhen		
Test Result	OK	Not OK	Remark
*EN 55014-1: 2017+A11:2020 & EN IEC 55014-1: 2021	☒	☐	☐
*EN 55014-2: 1997/A2: 2008 & EN IEC 55014-2: 2021	☒	☐	☐
When determining the test conclusion, the Measurement Uncertainty of test has been considered.			

Prepared and Checked By:

Approved By:

Sign on File

Tom Li

Senior Engineer

Signature

Jimmy Wen

Manager

23 Apr 2024

Date

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EMC Results Conclusion (with Justification)

RE: EMC Testing Pursuant to Electromagnetic Compatibility Directive
(2014/30/EU) Performed On the RIDE ON CAR,
Models: 7658

We tested the RIDE ON CAR, Model: 7658, to determine if it was in compliance with the relevant EN standards as marked on the EMC Verification Summary. We found that the unit met the requirement of EN IEC 55014-1, EN IEC 55014-2 standards when tested as received.

The production units are required to conform to the initial sample as received when the units are placed on the market.

LABORATORY MEASUREMENTS

Configuration Information

Equipment Under Test (EUT):	RIDE ON CAR
Model:	7658
Serial No.:	Not Labelled
Support Equipment:	N/A
Cables:	N/A
Adaptor:	N/A
Rating:	DC 3.0V (2 x 1.5V AA Batteries)

PERFORMANCE CRITERIA FOR IMMUNITY

Performance criterion A:

The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion B:

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion C:

Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

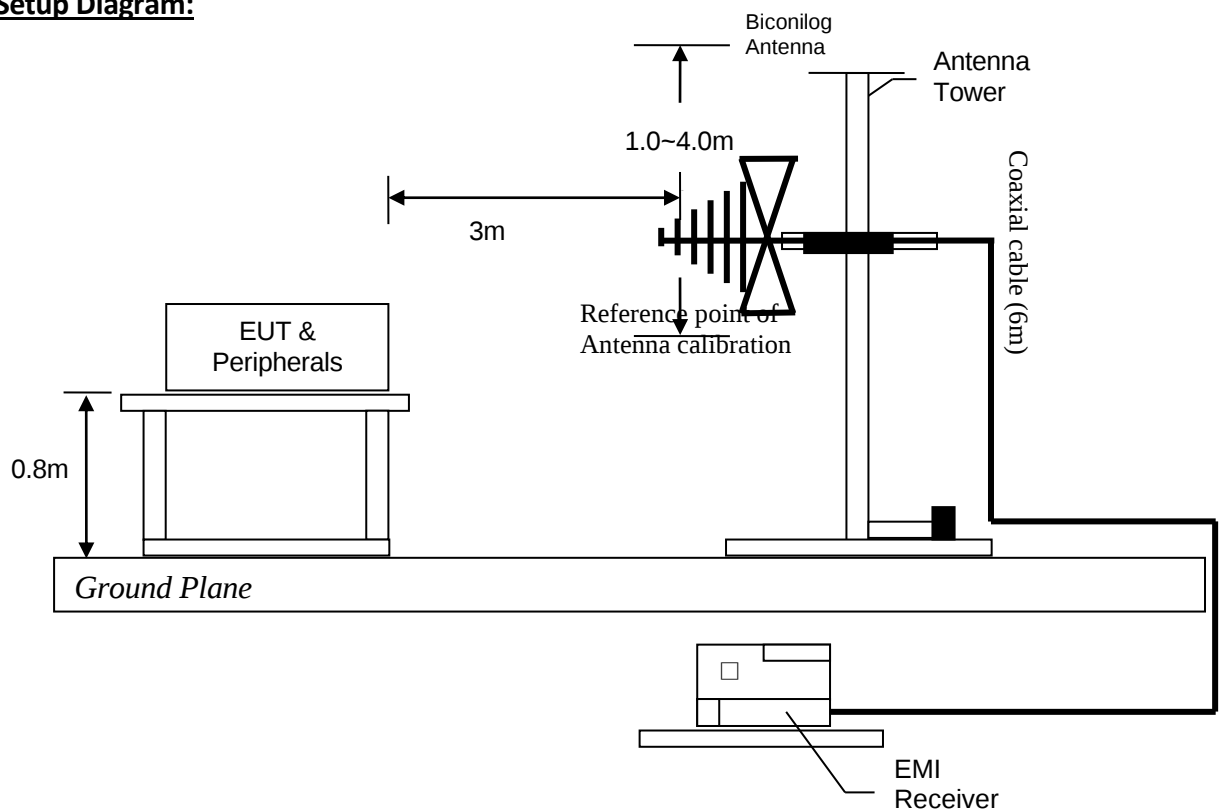
RADIATED DISTURBANCE PURSUANT TO EN IEC 55014-1: EMISSIONS REQUIREMENT

Used Test Equipment

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ185-04	EMI Receiver	R & S	ESR7	10 Nov 2023	10 Nov 2024
SZ061-12	Biconilog Antenna	ETS	3142E	7 Jul 2021	7 Jul 2024
SZ188-05	Anechoic Chamber	ETS	FACT 3-2.0	12 Dec 2021	12 Dec 2024

- Notes:
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Frequency range scanned: 30MHz to 1000MHz.
 3. Only emissions significantly above equipment noise floor are reported.
 4. Uncertainty: $\pm 4.8\text{dB}$ at a level of confidence of 95%.

Test Setup Diagram:



(Radiated Emission Measurements Test Setup)

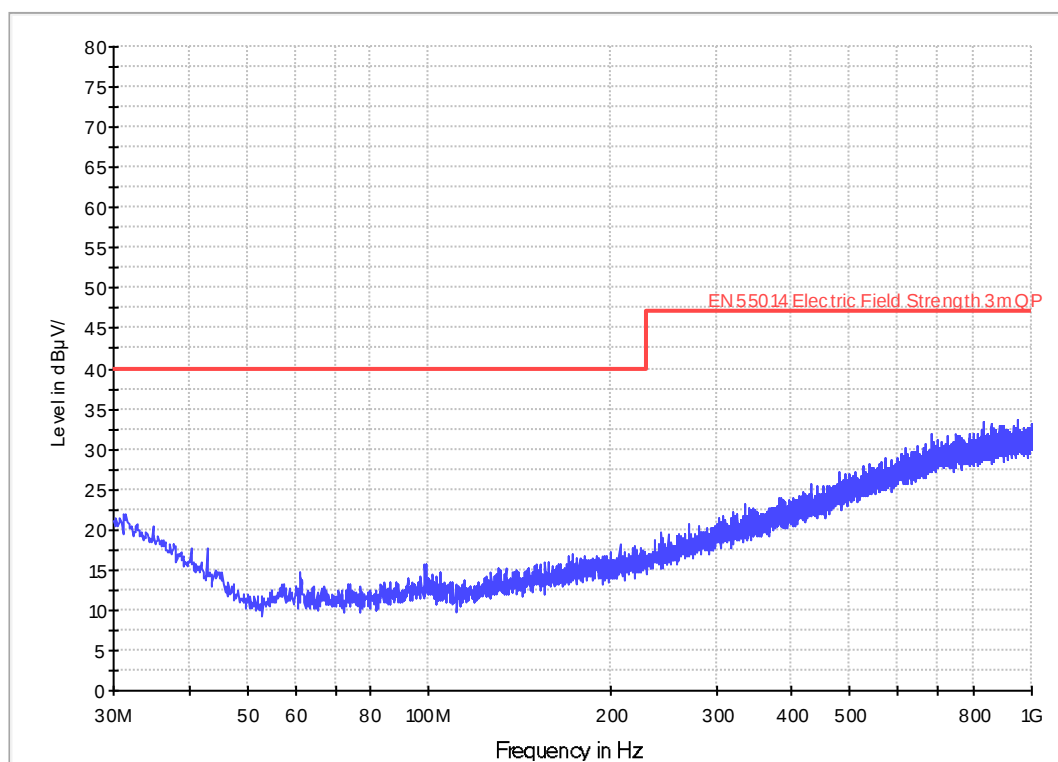
Model: 7658

Worst Case Operating Mode: Sound

Test Data
Radiated Disturbance
Pursuant to EN IEC 55014-1: Emissions Requirement

Horizontal

EN55014



Remark: The emissions were very low against the limit in the frequency range 30MHz-1000MHz.

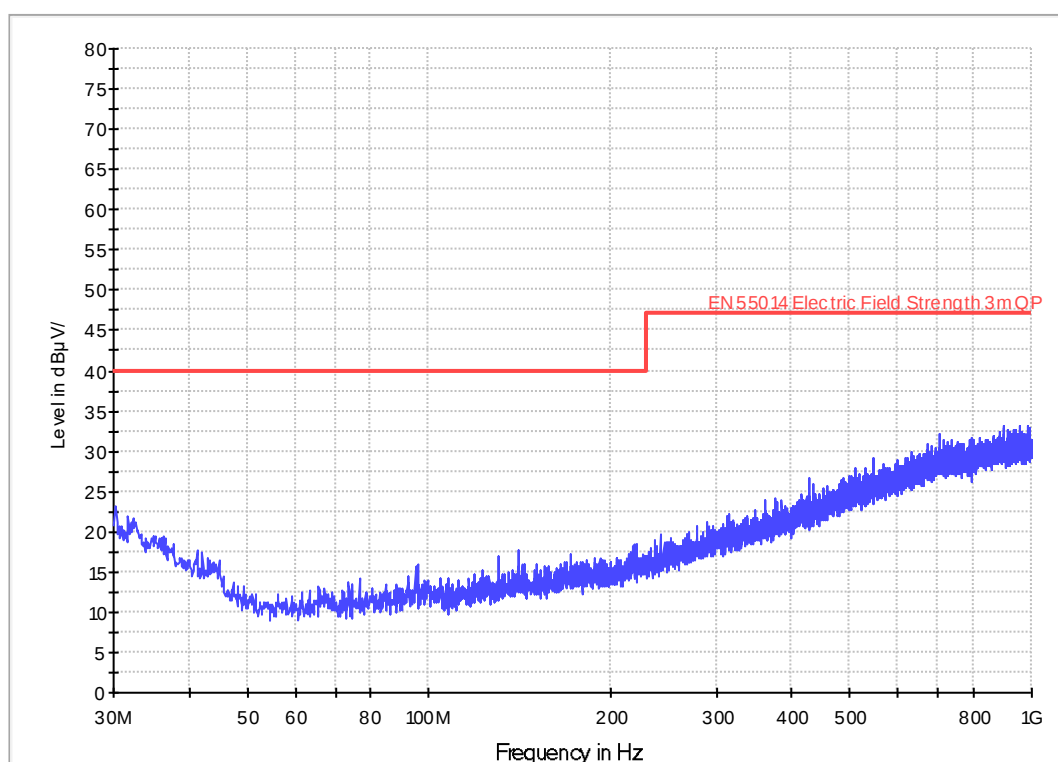
Model: 7658

Worst Case Operating Mode: Sound

Test Data Radiated Disturbance Pursuant to EN IEC 55014-1: Emissions Requirement

Vertical

EN55014



Remark: The emissions were very low against the limit in the frequency range 30MHz-1000MHz.

Model: 7658

EN 61000-4-2 Electrostatic Discharge

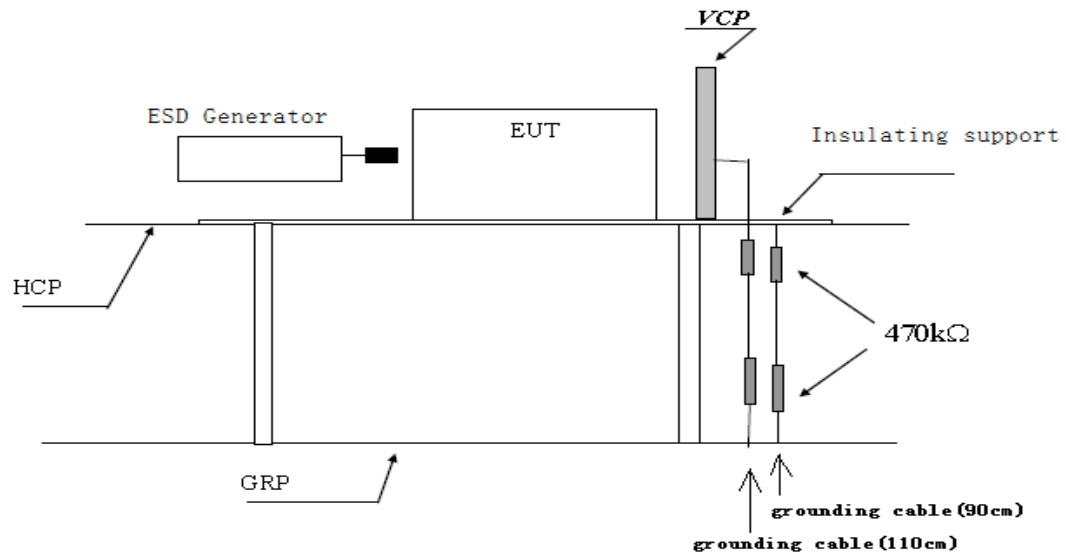
Test Summary (Pursuant to EN IEC 55014-2)

Basic Standard:	EN 61000-4-2
Port:	Enclosure
Required Performance Criterion:	C
Limit:	±8.0kV (Air Discharge)
	±4.0kV (Contact Discharge)
	±4.0kV (Indirect Contact Discharge)
Temperature:	25.0°C
Relative Humidity:	50.0%
Test Mode:	Sound
Test Setup:	Floor Stand
Test of Post-Installation:	N/A
Time Between Each Discharge:	1 second

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ189-05	ESD Simulator	Teseq	NSG 437	16 Jun 2023	16 Jun 2024

Test Setup Diagram



Test set-up of electrostatic discharge

Model: 7658

Test Results

EN 61000-4-2 Electrostatic Discharge

Discharge Type	No. of Discharge	Applied Voltage	Result (Pursuant to EN IEC 55014-2 criterion C)
Contact Discharge	20	+4kV	OK
		-4kV	OK
Air Discharge	20	+8kV	OK
		-8kV	OK
Indirect HCP Discharge	20	+4kV	OK
		-4kV	OK
Indirect VCP Discharge	20	+4kV	OK
		-4kV	OK

- **No. of discharge: 10 discharge for +ve and 10 discharge for –ve.**
- **Time between each discharge: at least 1 second.**

☒ Additional Information

☒ No observable change.

Model: 7658

EN 61000-4-3
RADIATED IMMUNITY

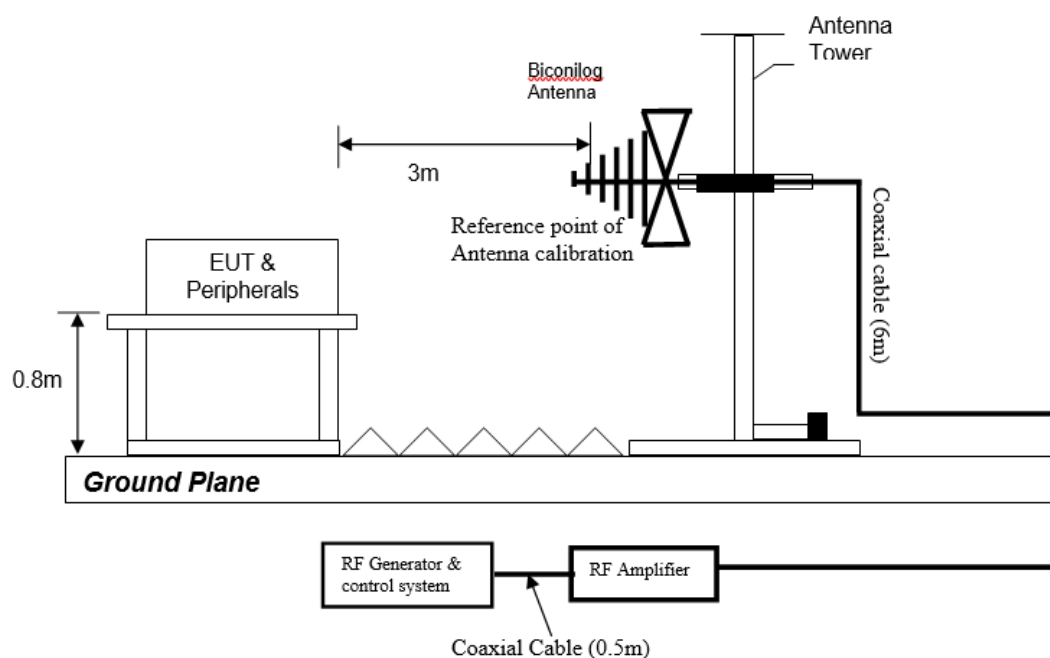
Test Summary (Pursuant to EN IEC 55014-2)

Basic Standard:	IEC 61000-4-3
Port:	Enclosure
Required Performance Criterion:	A
Limit:	3.0V/m (rms)
Test Modulation:	1kHz, 80% AM
Frequency:	80MHz to 6000MHz
Dwell Time:	1s
Frequency Step:	1%
Temperature:	24.5°C
Relative Humidity:	68.6%
Test Facility:	Full Anechoic Chamber
Antenna Polarization:	Horizontal and Vertical
Type of Antenna:	Log-periodic
Test Distance:	3 meters
Test Mode:	Sound
Test Setup:	Floor Stand

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	7 Jul 2021	7 Jul 2024
SZ180-02	Signal Generator	Aeroflex	2023A	12 Dec 2023	12 Dec 2024
SZ181-01	Amplifier	PRANA	AP32 MT215	12 Dec 2023	12 Dec 2024
SZ188-02	Anechoic Chamber	ETS	RFD-F/A-100	12 Dec 2021	12 Dec 2024

Test Setup Diagram



Test set-up of Immunity to Radiated Electric Fields

Model: 7658

Test Results**EN 61000-4-3
Radiated Immunity**

Frequency (MHz)	Exposed Side	Field Strength V/m (rms)	Result (Pursuant to EN IEC 55014-2, Criterion A)
80 to 6000	Front	3	OK
80 to 6000	Left	3	OK
80 to 6000	Rear	3	OK
80 to 6000	Right	3	OK



Additional Information



No observable change

Photos of EUT

External Photo



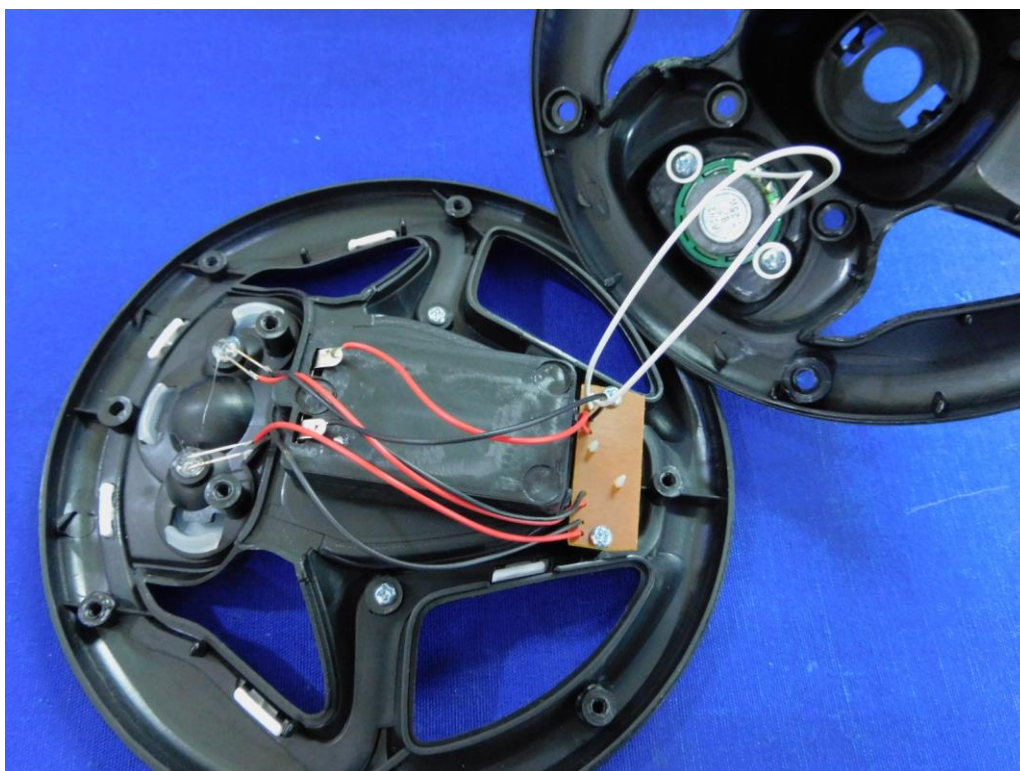
External Photo



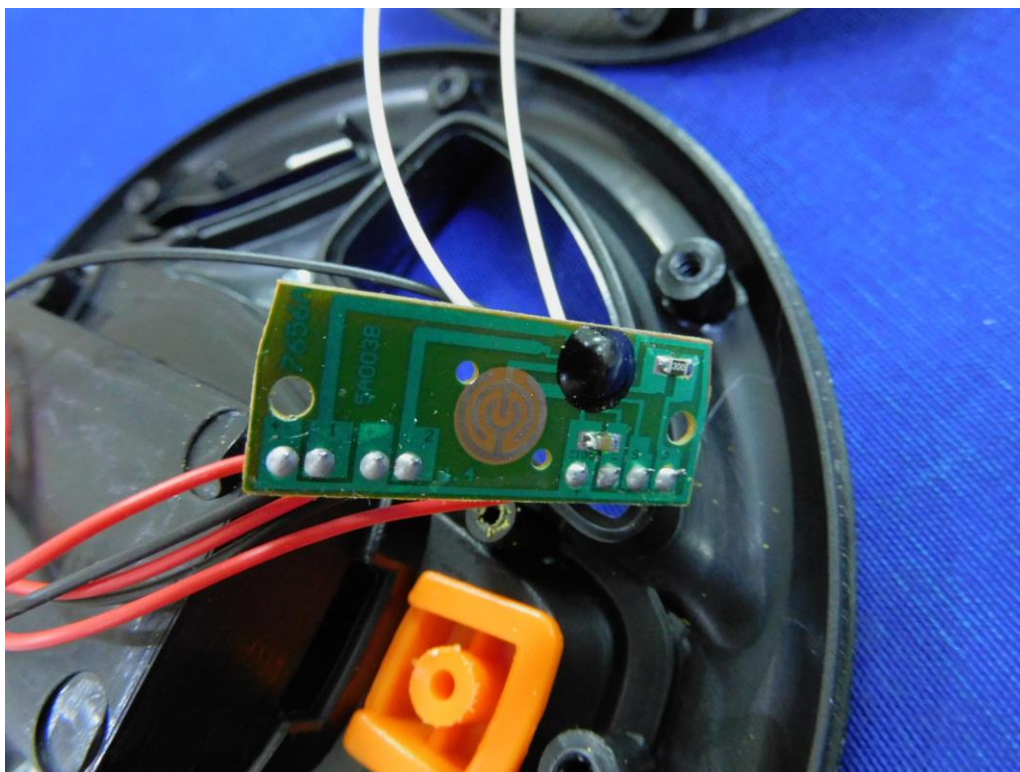
Internal Photo



Internal Photo



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