

Test Report

Verified code: 272991

Report No.: E202308027685-7

Customer: Nanjing CETC-Motor Co.,Ltd

Address: 2nd Floor, Building 3, Guorui, No.359 Middle Jiangdong Rd, Jianye District, Nanjing City, Jiangsu Province P.R.China

Sample Name: Remote Control Key

Sample Model: 11652820

Receive Sample Date: Aug.25,2023

Test Date: Oct.16,2023 ~ Nov.29,2023

Reference Document: 47 CFR 2.1091 Radio frequency radiation exposure evaluation:mobile devices.

Test Result: Pass

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GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-01-31

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Statement

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2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.
3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.
4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202308027685-7	Original Issue	2023-12-05

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1. GENERAL DESCRIPTION OF EUT

1.1 APPLICANT

Name: Nanjing CETC-Motor Co.,Ltd
Address: 2nd Floor, Building 3, Guorui, No.359 Middle Jiangdong Rd, Jianye District,
Nanjing City, Jiangsu Province P.R.China

1.2 MANUFACTURER

Name: Nanjing CETC-Motor Co.,Ltd
Address: 2nd Floor, Building 3, Guorui, No.359 Middle Jiangdong Rd, Jianye District,
Nanjing City, Jiangsu Province P.R.China

1.3 FACTORY

Name : Suzhou Ouwei Intelligent car Technology Co.,LTD
Address : No.3 Building, No.233 Kangyang Road, Huangdai Town, Xiaocheng District,
215143 Suzhou City, Jiangsu Province, China

1.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: Remote Control Key
Product Model: 11652820
Adding Model: /
Model Difference: /
Trade Name: /
Power Supply: DC 3V power supplied by battery
Battery Specification: Model: CR2032
Nominal Voltage: 3Vdc
Frequency Band: 433.369MHz, 433.92MHz
FCC ID: 2BD9I-11652820
Antenna Type: PCB Antenna
Modulation type: FSK
Sample submitting way: ☒ Provided by customer ☐ Sampling
Sample No: E202308027685-0002, E202308027685-0003
Temperature Range: -40℃ ~ +80℃

Hardware version: 1.01

Software version: 1.0

Note:

The basic description of the EUT is provided by the applicant. This report is made Solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

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2. LABORATORY AND MEASUREMENT UNCERTAINTY

2.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add : No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China

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3. TECHNICAL REQUIREMENTS SPECIFICATION

3.1 TEST LIMIT

According to the KDB 447498 D04 Interim General RF Exposure Guidance v01, Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

As discussed in § 1.1307(b)(3)(ii)(A), the 1-mW exemption intended for single transmitters may be also applied to simultaneous transmission conditions, within the same host device, according one of the following criteria:

- a) When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.
- b) When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period.

This exemption may not be combined with any other exemption.

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3.2 TEST RESULT

Frequency Band	Antenna	Antenna type	Maximum antenna gain
433.369MHz	Antenna 1	PCB antenna	-10dBi
433.92MHz	Antenna 1	PCB antenna	-10dBi

Frequency Band	Antenna	Maximum E-Field at 3m (dB μ V/m)	Output power (dBm)	Output power (mW)	Limit (mW)
433.369MHz	Antenna 1	61.84	-33.39	4.58E-4	1
433.92MHz	Antenna 1	61.72	-33.51	4.46E-4	1

Note:

1. 433.369MHz: $EIRP = E(dB\mu V/m) @ 3m + 20\log(d) - 104.77 = 61.84 + 20\log(3) - 104.77 = -33.39$ dBm;
 $mW = 10^{(EIRP/10)} = 10^{(-33.39/10)} = 4.58E-4$ mW;
 2. 433.92MHz: $EIRP = E(dB\mu V/m) @ 3m + 20\log(d) - 104.77 = 61.72 + 20\log(3) - 104.77 = -33.51$ dBm;
 $mW = 10^{(EIRP/10)} = 10^{(-33.51/10)} = 4.46E-4$ mW;
 3. The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.
 4. The Maximum E-Field please refer to the report E202308027685-6.
- The output power is less than 1mw, the measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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PHOTOGRAPHS OF THE EUT

Please refer to the attached document E202308027685-10 EUT photo.

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