

Test Report

Verified code: 472982

Report No.: E202308027685-2-G1

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: Body Control Module

Sample Model: BC04

Receive Sample Date: Aug.25,2023

Test Date: Nov.04,2023 ~ Nov.04,2023

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

Test Result: Pass

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Jiang Tao

Approved by: Xiao Liang
Xiao Liang

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-01-30

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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	E202308027685-2	Original Issue	2023-11-08
2.0	E202308027685-2-G1	Update Issue	2024-01-29

Version 2.0:

1. This report is based on E202308027685-2 for revised the factory's name: Suzhou Ouwei light Technology Co., LTD to Suzhou Ouwei Intelligent car Technology Co., LTD on page 5 of the report. It's had no effect on the test results.
2. This report replaced the original report E202308027685-2, and from the date of issuance of this report, the report which being replaced become invalid.

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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 Oufei Intelligent car Technology Co., LTD
Address : No.233 Kangyang Road, Xiangcheng District, Huangdai Town, Suzhou City,
Jiangsu Province, China

1.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: Body Control Module
Product Model: BC04
Adding Model: /
Model Difference: /
Trade Name: /
Power Supply: DC 12.5V
Frequency Band: 125kHz
FCC ID: 2BD9I-BC04
Antenna Type: External Antenna
Modulation type: ASK for 125kHz
Sample submitting way: ☒ Provided by customer ☐ Sampling
Sample No: E202308027685-0001
Temperature Range: -40°C ~ +80°C

Hardware version: 11648822

Software version: 11551695

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.

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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
125kHz	Antenna 1 (IMMO)	External Antenna
	Antenna 2 (Facia)	External Antenna
	Antenna 3 (Driver)	External Antenna
	Antenna 4 (Front Passenger)	External Antenna
	Antenna 5 (Rear Bumper)	External Antenna
	Antenna 6 (Rear Seat)	External Antenna

Antenna	Maximum E-Field at 3m (dBμV/m)	Output power (dBm)	Output power (mW)	Limit (mW)
Antenna 1 (IMMO)	45.27	-49.96	1.01E-5	1
Antenna 2 (Facia)	45.98	-49.25	1.19E-5	1
Antenna 3 (Driver)	40.32	-54.91	3.23E-6	1
Antenna 4 (Front Passenger)	44.05	-51.18	7.62E-6	1
Antenna 5 (Rear Bumper)	44.02	-51.21	7.57E-6	1
Antenna 6 (Rear Seat)	42.50	-52.73	5.33E-6	1

Note:

1. Antenna 1(IMMO): $EIRP = E(dB\mu V/m) @ 3m + 20\log(d) - 104.77 = 45.27 + 20\log(3) - 104.77 = -49.96$ dBm; $mW = 10^{(EIRP/10)} = 10^{(-50.56/10)} = 1.01E-5$ mW;
2. Antenna 2(Facia): $EIRP = E(dB\mu V/m) @ 3m + 20\log(d) - 104.77 = 44.67 + 20\log(3) - 104.77 = -49.25$ dBm; $mW = 10^{(EIRP/10)} = 10^{(-50.56/10)} = 1.19E-5$ mW;
3. Antenna 3(Driver): $EIRP = E(dB\mu V/m) @ 3m + 20\log(d) - 104.77 = 44.67 + 20\log(3) - 104.77 = -54.91$ dBm; $mW = 10^{(EIRP/10)} = 10^{(-50.56/10)} = 3.23E-6$ mW;
4. Antenna 4(Front Passenger): $EIRP = E(dB\mu V/m) @ 3m + 20\log(d) - 104.77 = 44.67 + 20\log(3) - 104.77 = -51.18$ dBm; $mW = 10^{(EIRP/10)} = 10^{(-50.56/10)} = 7.62E-6$ mW;
5. Antenna 5(Rear Bumper): $EIRP = E(dB\mu V/m) @ 3m + 20\log(d) - 104.77 = 44.67 + 20\log(3) - 104.77 = -51.21$ dBm; $mW = 10^{(EIRP/10)} = 10^{(-50.56/10)} = 7.57E-6$ mW;
6. Antenna 6(Rear Seat): $EIRP = E(dB\mu V/m) @ 3m + 20\log(d) - 104.77 = 44.67 + 20\log(3) - 104.77 = -52.73$ dBm; $mW = 10^{(EIRP/10)} = 10^{(-50.56/10)} = 5.33E-6$ mW;
7. 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.
8. The Maximum E-Field please refer to the report E202308027685-1.
9. The six antennas of the EUT can't transmitting simultaneously.

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.

PHOTOGRAPHS OF THE EUT

Please refer to the attached document E202308027685-5 EUT photo.

----- End of Report -----