

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

Hisa Luc Sunny Deng 1. Her

RF Exposure Evaluation Report

Compiled by

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Supervised by

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Approved by

(position+printed name+signature)..: Manager Yvette Zhou

Date of issue...... May 29, 2023

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... Shenzhen Beifengyuntong Technology Co., LTD.

Longgang District, ShenZhen, GuangDong, China

Test specification/ Standard...........: 47 CFR Part 1.1307

47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

TRF Originator...... Shenzhen Most Technology Service Co., Ltd.

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Test item description...... IC Card Reader Props

Trade Mark..... BearHoHo

Manufacturer...... Shenzhen Beifengyuntong Technology Co., LTD.

Model/Type reference...... DC-ERP011(10A)

Listed Models : DC-ERP011(1A), DC-ERP011(2A), DC-ERP011(3A),

DC-ERP011(4A), DC-ERP011(5A), DC-ERP011(6A), DC-ERP011(7A), DC-ERP011(8A), DC-ERP011(9A), DC-ERP011(1N), DC-ERP011(2N), DC-ERP011(3N), DC-ERP011(4N), DC-ERP011(6N), DC-ERP011(6N),

DC-ERP011(7N), DC-ERP011(8N), DC-ERP011(9N),

DC-ERP011(10N)

Modulation Type.....: ASK

Operation Frequency.....: 13.56MHz

Rating...... DC 12V by Adapter

Result..... PASS

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TEST REPORT

Equipment under Test : IC Card Reader Props

Model /Type : DC-ERP011(10A)

Listed Models : DC-ERP011(1A), DC-ERP011(2A), DC-ERP011(3A),

DC-ERP011(4A), DC-ERP011(5A), DC-ERP011(6A), DC-ERP011(7A), DC-ERP011(8A), DC-ERP011(9A), DC-ERP011(1N), DC-ERP011(2N), DC-ERP011(3N), DC-ERP011(4N), DC-ERP011(5N), DC-ERP011(6N), DC-ERP011(7N), DC-ERP011(8N), DC-ERP011(9N),

DC-ERP011(10N)

Only the model name and the number of connected card

Remark readers differ

Applicant : Shenzhen Beifengyuntong Technology Co., LTD.

Address : Room 318 Building E,LiHao industrial Zone,No. 78 AiNan Road,

Longgang District, ShenZhen, GuangDong,China

Manufacturer : Shenzhen Beifengyuntong Technology Co., LTD.

Address : Room 318 Building E,LiHao industrial Zone,No. 78 AiNan Road,

Longgang District, ShenZhen, GuangDong,China

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023-05-29	Initial Issue	Alisa Luo

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2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C): 33

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]
- 2) For test separation distances \leq 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any SAR test results below 100 MHz to be acceptable.34

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2.1.3 EUT RF Exposure

The worst case (refer to report MTEB22120201-R) is below:

Antenna polarization: Horizontal				
Frequency (MHz)	Level (dBuV/m)	Polarization		
13.56	77.4	Peak		

E=EIRP-20logd+104.8

E: is the electric field strength in dBuV/m

EIRP: is the equivalent isotropically radiated powerin dBm

d: is the specified measurement distance in m

d=3m

EIRP=77.4+20log3-104.8=-17.3dBm

13.56MHz< 30MHz, Add a 6DB maximum ground factor.

EIRP=-17.3dBm+6=-11.3dBm

The EIPR of the product is small enough, RF Exposure meets the requirements.

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