

RF Exposure Evaluation Report

Report Reference No.....: MTWG22103590-H

FCC ID..... : 2A397-HK528

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Date of issue.....: **November 02, 2022**

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

Address: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
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Applicant's name.....: QINGDAO HISTONE INTELLIGENT COMMERCIAL SYSTEM CO., LTD.

Address: Wisdom Valley, No.8 Shengshui Road, Laoshan District, Qingdao
 City, 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: POS COMPUTER

Trade Mark: Histone

Manufacturer: **QINGDAO HISTONE INTELLIGENT COMMERCIAL SYSTEM CO., LTD.**

Model/Type reference.....: HK528

Listed Models: HK528 J6412

Modulation Type: ASK

Operation Frequency.....: 13.56MHz

Hardware Version.....: HS-J6412LS

Software Version: MEHL0301

Rating: DC 24V by Adapter: Input: 100-240V~, 50/60Hz,2.5A

Output: 24.0V=, 3.75A

POS COMPUTER : 24V=, 3.75 A

Result.....: **PASS**

TEST REPORT

Equipment under Test : POS COMPUTER

Model /Type : HK528

Listed Models : HK528 J6412
Remark : All models are identical to each other, except model name.
The product appearance has different colors.

Applicant : **QINGDAO HISTONE INTELLIGENT COMMERCIAL SYSTEM CO., LTD.**

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| | |
|---------------------|-------------|
| 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.

1. Revision History

| Revision | Issue Date | Revisions | Revised By |
|----------|------------|---------------|------------|
| 00 | 2022-11-02 | Initial Issue | Alisa Luo |
| | | | |
| | | | |

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 $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 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

2.1.3 EUT RF Exposure

The worst case (refer to report MTWG22103590) is below:

| Antenna polarization: Horizontal | | |
|----------------------------------|----------------|--------------|
| Frequency (MHz) | Level (dBuV/m) | Polarization |
| 13.56 | 78.2 | Peak |

$$E = \sqrt{EIRP} / d$$

E: is the electric field strength in dBuV/m

EIRP: is the equivalent isotropically radiated power in dBm

d: is the specified measurement distance in m

$$d = 3\text{m}$$

$$EIRP = 78.2 + 20 \log 3 - 104.8 = -78.2 - 95.2 \text{ dBm} = -17 \text{ dBm}$$

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

$$EIRP = -17 \text{ dBm} + 6 = -11 \text{ dBm}$$

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

.....**THE END OF REPORT**.....