No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China

TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

FCC Designation Number: CN1199





Test report No: 2150461R-RF-US-P20V01

FCC Exposure TEST REPORT

| Product Name | Charger Cradle |
|---|--|
| Trademark | Honeywell |
| Model and /or type reference | CCB01-010BT |
| FCC ID | HD5-CCB01A |
| Applicant's name / address | HONEYWELL INTERNATIONAL INC Honeywell Safety and Productivity Solutions 9680 OLD BAILES RD FORT MILL SC 29707-7539,USA |
| Test method requested, standard | KDB 447498 D01V06 FCC Part1.1310 |
| Verdict Summary | IN COMPLIANCE |
| Documented by (name / position & signature) | Tim Cao/Project Engineer |
| Approved by (name / position & signature) | Jack Zhang/ Supervisor Jack Zhang/ |
| Date of issue | 2021-05-28 |
| Report Version | V1.0 |
| Report template No | Template_FCC MPE-RF-V1.0 |

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

<u>IMPORTANT:</u> No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

| Test Location | No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China |
|----------------------|--|
| Date(receive sample) | May. 14, 2021 |
| Date (start test) | May. 18, 2021 |
| Date (finish test) | May. 27, 2021 |

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
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- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

| Ambient temperature | 15 ° C - 35 ° C |
|-----------------------|-----------------|
| Relative Humidity air | 30% - 60% |

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

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POSSIBLE TEST CASE VERDICTS

| Test case does not apply to test object | N/A |
|---|-----------------|
| Test object does meet requirement | P (Pass) / PASS |
| Test object does not meet requirement | F (Fail) / FAIL |
| Not measured | N/M |

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test

QP : Quasi-Peak CAV : CISPR Average

AV : Average

CDN : Coupling Decoupling Network SAC : Semi-Anechoic Chamber

OATS : Open Area Test Site

BW: Bandwidth

AM : Amplitude Modulation PM : Pulse Modulation

HCP : Horizontal Coupling PlaneVCP : Vertical Coupling Plane

U_N : Nominal voltageTx : TransmitterRx : Receiver

N/A : Not Applicable N/M : Not Measured

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DOCUMENT HISTORY

| Report No. | Version | Description | Issued Date |
|-----------------------|---------|--------------------------|-------------|
| 2150461R-RF-US-P20V01 | V1.0 | Initial issue of report. | 2021-05-28 |
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REMARKS AND COMMENTS

- 1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
- 2. These test results on a sample of the device are for the purpose of demonstrating Compliance with KDB 447498 and FCC Part 1.1310
- 3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
- 4. The test results presented in this report relate only to the object tested.
- 5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
- 6. This report will not be used for social proof function in China market.

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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm2) | Average Time (Minutes) | | |
|--------------------------|---|--|------------------------------|------------------------------|--|--|
| (A) Limits for Oc | cupational/ Control | Exposures | | | | |
| 300-1500 | | | F/300 | 6 | | |
| 1500-100,000 | | | 5 | 6 | | |
| (B) Limits for Ge | (B) Limits for General Population/ Uncontrolled Exposures | | | | | |
| 300-1500 | | | F/1500 | 6 | | |
| 1500-100,000 | | | 1 | 30 | | |

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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According to RSS 102 Issue 5: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in RSS 102 Clause 4

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range (MHz) | Electric Field (V/m rms) | Magnetic Field (A/m rms) | Power Density (W/m²) | Reference Period (minutes) |
|--------------------------|-----------------------------|-------------------------------|-------------------------|----------------------------|
| $0.003 - 10^{21}$ | 83 | 90 | 157 | Instantaneous* |
| 0.1-10 | - | 0.73/ f | 23 | 6** |
| 1.1-10 | $87/f^{0.5}$ | 22 | (128) | 6** |
| 10-20 | 27.46 | 0.0728 | 2 | 6 |
| 20-48 | $58.07/f^{0.25}$ | $0.1540/f^{0.25}$ | $8.944/f^{0.5}$ | 6 |
| 48-300 | 22.06 | 0.05852 | 1.291 | 6 |
| 300-6000 | $3.142 f^{0.3417}$ | $0.008335 f^{0.3417}$ | $0.02619f^{0.6834}$ | 6 |
| 6000-15000 | 61.4 | 0.163 | 10 | 6 |
| 15000-150000 | 61.4 | 0.163 | 10 | $616000/f^{1.2}$ |
| 150000-300000 | $0.158 f^{0.5}$ | $4.21 \times 10^{-4} f^{0.5}$ | $6.67 \times 10^{-5} f$ | $616000/f^{1.2}$ |

Note: f is frequency in MHz.

^{*}Based on nerve stimulation (NS).

^{**} Based on specific absorption rate (SAR).

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1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°Cand 78% RH.

1.3. Test Result of RF Exposure Evaluation

| Product | : | Charger Cradle |
|-----------|---|------------------------|
| Test Item | : | RF Exposure Evaluation |
| Test Site | : | AC-6 |

Power Density

The tune-up power is 1dB, so the maximum conducted we used to calculate RF exposure is 10.51 dBm for Bluetooth.

Standalone modes:

| Test Mode | Frequency Band (MHz) | Maximum Conducted Power (dBm) | Maximum EIRP (dBm) | Antenna Gain (dBi) | Limit of Power Density S(mW/cm²) | Power Density at R = 20 cm (mW/cm ²) |
|-----------|-------------------------|--|--------------------------|--------------------------|--|--|
| BT | 2400 ~ 2483.5 | 10.51 | 9.51 | -1.0 | 1 | 0.0018 |

| Note: The maximum power density is 0.001 | 8 mW/cm² for <i>Char</i> | rger Cradle without any other radio equipmen | nt. |
|--|--------------------------|--|-----|
| | | | |
| | The End | · | |