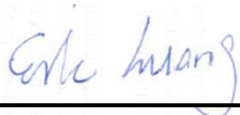


# RF Exposure Evaluation Report

APPLICANT : Honeywell International Inc.  
EQUIPMENT : Honeywell Tag  
BRAND NAME : Honeywell  
MODEL NAME : RTHAL-C2  
FCC ID : HD5-RTHALC2  
STANDARD : 47 CFR Part 2.1093  
FCC KDB 447498 D01 v06

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Eric Huang / Manager



Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL INC.**

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)



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## **Revision History**

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FA811911   | Rev. 01 | Initial issue of report | Feb. 13, 2018 |
|            |         |                         |               |
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|            |         |                         |               |
|            |         |                         |               |

**1. Administration Data**

| Testing Laboratory |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                                                                                       |
| Test Site Location | No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |

| Applicant    |                                               |
|--------------|-----------------------------------------------|
| Company Name | Honeywell International Inc.                  |
| Address      | 9680 Old Bailes Road, Fort Mill, SC 29707 USA |

| Manufacturer |                                                                            |
|--------------|----------------------------------------------------------------------------|
| Company Name | Honeywell International Inc.<br>Honeywell Sensing & Productivity Solutions |
| Address      | 9680 Old Bailes Road, Fort Mill, SC 29707 USA                              |



## **2. General Information**

### **2.1 Description of Device Under Test (DUT)**

| Product Feature & Specification         |                                                  |
|-----------------------------------------|--------------------------------------------------|
| DUT Type                                | Honeywell Tag                                    |
| Brand Name                              | Honeywell                                        |
| Model Name                              | RTHAL-C2                                         |
| FCC ID                                  | HD5-RTHALC2                                      |
| Wireless Technology and Frequency Range | Bluetooth: 2402 MHz ~ 2480 MHz<br>NFC: 13.56 MHz |
| Mode                                    | Bluetooth LE<br>NFC: ASK                         |
| HW Version                              | V2.0                                             |
| SW Version                              | V0.0.11                                          |
| DUT Stage                               | Identical Prototype                              |

**Remark:** The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## **3. Maximum RF output power among production units**

| Band / Mode | Average Power (dBm) |
|-------------|---------------------|
|             | LE                  |
|             | GFSK                |
| Bluetooth   | 3                   |

**4. RF Exposure Evaluation**

| Bluetooth<br>Max Power (dBm) | mW   | Separation<br>Distance (mm) | Frequency<br>(GHz) | Exclusion<br>Thresholds |
|------------------------------|------|-----------------------------|--------------------|-------------------------|
| 3                            | 2.00 | 5                           | 2.48               | 0.63                    |

**Note:**

1. Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

**Conclusion:** Per KDB 447498 D01v06, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.63 which is  $\leq 7.5$ , SAR testing is not required.