



SPORTON International Inc.

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Project No: CB10502124

RF Exposure Evaluation Report

| | |
|------------------------|--|
| Applicant's company | Technicolor Connected Home USA LLC |
| Applicant Address | 101 West 103rd Street, Indianapolis, IN 46290 |
| FCC ID | G95TKA105 |
| Manufacturer's company | Technicolor Connected Home USA LLC |
| Manufacturer Address | 101 West 103rd Street, Indianapolis, IN 46290 |
| Factory | Nanning Fugui Precision Industrial Co., Ltd |
| Factory's Address | B Workshop, NO.51, Tongle Road, Foxconn Nanning Industrial Park, Nanning, Guangxi, China |

| | |
|------------------|---|
| Product Name | KeyPad |
| Brand Name | Technicolor |
| Model Name | TKA105 |
| Ref. Standard(s) | 47 CFR FCC Part 2 Subpart J, section 2.1093 |
| Received Date | Feb. 03, 2016 |
| Final Test Date | Mar. 17, 2016 |
| Submission Type | Original Equipment |

Sam Chen

SPORTON INTERNATIONAL INC.



Table of Contents

| | |
|--|----------|
| 1. GENERAL DESCRIPTION..... | 1 |
| 1.1. EUT General Information | 1 |
| 1.2. Testing Location..... | 1 |
| 2. RF EXPOSURE EVALUATION | 2 |
| 2.1. Applicable Standard | 2 |
| 2.2. SAR evaluation..... | 2 |



History of This Test Report

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FA620502 | Rev. 01 | Initial issue of report | Mar. 30, 2016 |
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1. GENERAL DESCRIPTION

1.1. EUT General Information

| RF General Information | | | |
|------------------------|-----------------------|---------------------------|-----------------|
| Evaluation Mode | Frequency Range (MHz) | Operating Frequency (MHz) | Modulation Type |
| Zigbee | 2400-2483.5 | 2405-2480 | DSSS (QPSK) |

1.2. Testing Location

| Testing Location | | |
|-------------------------------------|--------|--|
| <input type="checkbox"/> | HWA YA | ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973 |
| <input checked="" type="checkbox"/> | JHUBEI | ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085 |

2. RF EXPOSURE EVALUATION

2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2. SAR evaluation

- Per FCC KDB 447498 D01 v06r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

- $f_{(\text{GHz})}$ 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

| Maximum Conducted Output Power (dBm) | Tune-up Average Power | | Test Distance (mm) | Frequency (GHz) | Exclusion Thresholds |
|---|-----------------------|------|-----------------------|--------------------|----------------------|
| | (dBm) | (mW) | | | |
| 7.23 | 7.50 | 5.6 | 5 | 2.445 | 1.76 |

- Per FCC KDB 447498 D01 v06r02 exclusion thresholds is $1.76 < 3$, RF exposure evaluation is not required.