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Project No: CB10601217

# RF Exposure Evaluation Report

| | |
|---|---|
| Applicant's company | **Fossil Group, Inc.** |
| Applicant Address | 901 S. Central Expressway Richardson TX 75080 USA |
| FCC ID | **UK7-NDW3A** |
| Manufacturer's company | **Fossil Group, Inc.** |
| Manufacturer Address | 901 S. Central Expressway Richardson TX 75080 USA |

| | |
|---|---|
| Product Name | BLE Slim HYBRID WATCH |
| Brand Name | FOSSIL SKAGEN |
| Model Name | NDW3A, NDW3B, NDW3C, NDW3E |
| EMC sample S/N | LZ10CDV07R, LZ10CDV07Z, LZ10CDV05F, LZ10CDV087 |
| Radiated sample S/N | LZ10CDV02D, LZ10CDV009, LZ10CDV01V, LZ10CDV007 |
| Conducted sample S/N | LE10CEV0DY |
| Ref. Standard(s) | 47 CFR FCC Part 2 Subpart J, section 2.1093 |
| Received Date | Jan. 17, 2017 |
| Final Test Date | Jan. 23, 2017 |
| Submission Type | Original Equipment |

Cliff Chang

**Cliff Chang**
**SPORTON INTERNATIONAL INC.**

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# History of This Test Report

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FA711846 | Rev. 01 | Initial issue of report | Feb. 14, 2017 |
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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** |
| Bluetooth | 2400-2483.5 | 2402-2480 | LE: DSSS (GFSK) |

## 1.2. Table for Multiple List

The model names in the following table are all refer to the identical product.

| Model Name | Radiated sample S/N | EMC sample S/N | EUT | Description |
|---|---|---|---|---|
| NDW3A | LZ10CDV02D | LZ10CDV07R | EUT 1 | The variation of model numbers is for externals. |
| NDW3B | LZ10CDV009 | LZ10CDV07Z | EUT 2 | |
| NDW3C | LZ10CDV01V | LZ10CDV05F | EUT 3 | |
| NDW3E | LZ10CDV007 | LZ10CDV087 | EUT 4 | |

Note 1: For Conducted measurement: From the above models, EUT 1 was selected as representative model for the test and its data was recorded in this report.

Note 2: For Radiated measurement: All EUTs were tested.

## 1.3. Testing Location

| Testing Location | | | |
|---|---|---|---|
| ☐ | 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 |
| ☒ | 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

1. Per FCC KDB 447498 D01 v06, 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:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)]•

[$\sqrt{f}_{(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

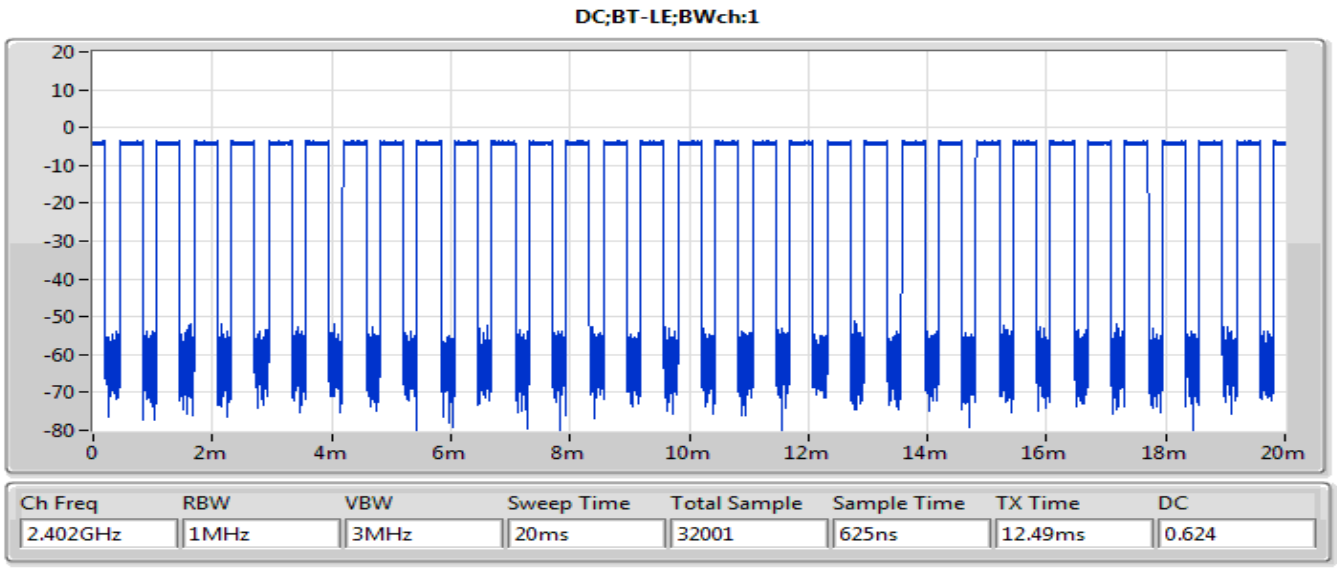
- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

| Max. Power | | Duty Cycle (Note) | Tune-up Max. Power | | Test Distance (mm) | Frequency (GHz) | Exclusion Thresholds |
|---|---|---|---|---|---|---|---|
| (dBm) | (mW) | (%) | (dBm) | (mW) | | | |
| -1.23 | 0.8 | 62.4 | -2.8 | 0.5 | 5 | 2.402 | 0.16 |

Note: The transmissions are sporadic and the duty cycle within a 20ms observation time is 62.4%.

Note: This device is a wristwatch which will be close to human wrist during the normal usage. Thus, the 5mm distance is chosen for the RF exposure evaluation.

**<Duty Cycle>**




| Ch Freq | RBW | VBW | Sweep Time | Total Sample | Sample Time | TX Time | DC |
|---|---|---|---|---|---|---|---|
| 2.402GHz | 1MHz | 3MHz | 20ms | 32001 | 625ns | 12.49ms | 0.624 |

Note: Duty cycle = TX time/ sweep time

1. The device is designed for use on human wrist.
2. Per FCC KDB 447498 D01 v06 exclusion thresholds is 0.16< 7.5, RF exposure evaluation is not required.