



# SPORTON International Inc.

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Project No: CB10601217

## RF Exposure Evaluation Report

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

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## Table of Contents

<b>1. GENERAL DESCRIPTION.....</b>	<b>1</b>
1.1. EUT General Information .....	1
1.2. Table for Multiple List.....	1
1.3. Testing Location .....	1
<b>2. RF EXPOSURE EVALUATION.....</b>	<b>2</b>
2.1. Applicable Standard .....	2
2.2. SAR evaluation .....	2
<b>PHOTOGRAPHS OF EUT V01</b>	

### History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA711846	Rev. 01	Initial issue of report	Feb. 14, 2017

## 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		
<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 v06, 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:

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

$$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$$
 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

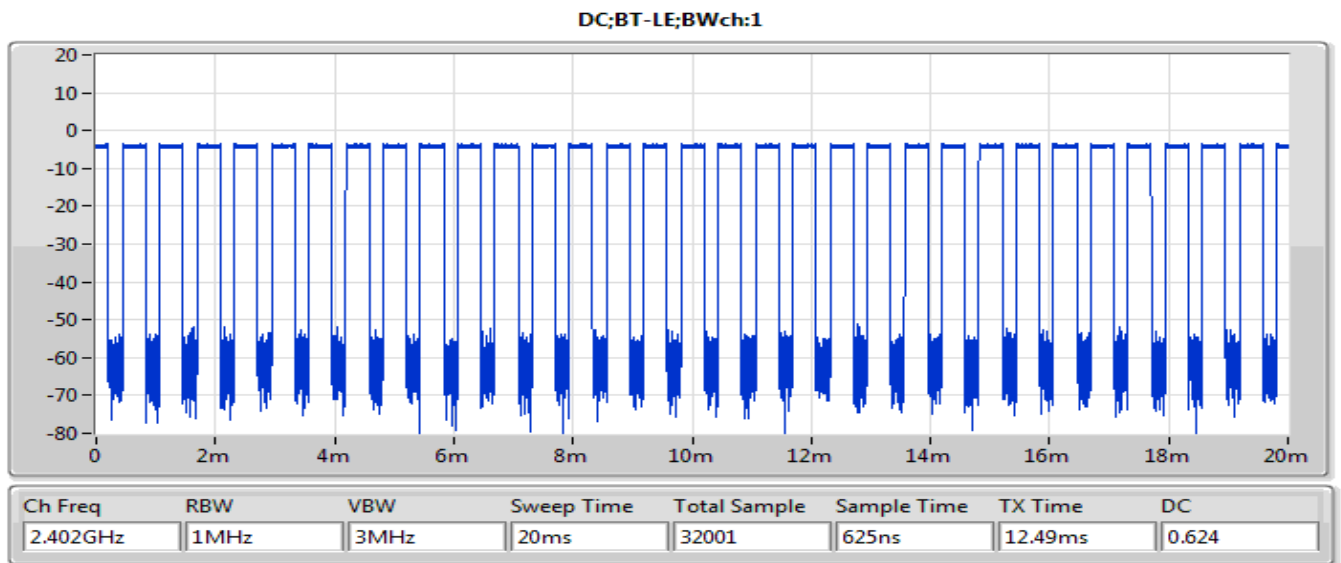
Max. Power		Duty Cycle (Note)	Tune-up Max. Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
(dBm)	(mW)	(%)	(dBm)	(mW)			
-1.23	0.8	62.4	-2.8	0.5	5	2.402	0.16

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>



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.