

## APPLICATION CERTIFICATION FCC Part 15C

On Behalf of

Shenzhen First Coating Technology Co., Ltd

Smart Bracelet

Model No.: F8, B15P, B15, S1, D2, H1, TALK, M8, M2, E07, E5, F9, H7

FCC ID: 2ALY5-F8

Prepared for : Shenzhen First Coating Technology Co., Ltd  
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Report No. : ATE20170457  
Date of Test : April 18, 2017  
Date of Report : April 25, 2017

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## Test Report Certification

Applicant : Shenzhen First Coating Technology Co., Ltd

Manufacturer : Shenzhen First Coating Technology Co., Ltd

EUT Description : Smart Bracelet

(A) MODEL NO.: F8, B15P, B15, S1, D2, H1, TALK, M8, M2, E07, E5, F9, H7

(B) TRADE NAME.: dido

(C) POWER SUPPLY: DC 3.7V & DC 5V (Power by USB Port)

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247**  
**ANSI C63.10: 2013**

The EUT was tested according to DTS test procedure of KDB558074 D01 DTS Meas Guidance v03r03 June 2015 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

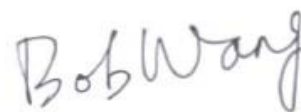
Date of Test :

April 18, 2017

Date of Report :

April 25, 2017

Prepared by :



(Bob Wang, Engineer)

Approved & Authorized Signer :



( Sean Liu, Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                         |   |                                                                                                                                                                                                                                       |
|-------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT                     | : | Smart Bracelet                                                                                                                                                                                                                        |
| Model Number            | : | F8, B15P, B15, S1, D2, H1, TALK, M8, M2, E07, E5, F9, H7                                                                                                                                                                              |
|                         |   | (Note: We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. Therefore only model F8 is tested for EMC tests.) |
| Trade Mark              | : | dido                                                                                                                                                                                                                                  |
| Bluetooth version       | : | Bluetooth V4.0 LE                                                                                                                                                                                                                     |
| Frequency Range         | : | 2402MHz-2480MHz                                                                                                                                                                                                                       |
| Number of Channels      | : | 40                                                                                                                                                                                                                                    |
| Antenna Gain            | : | 0dBi                                                                                                                                                                                                                                  |
| Antenna type            | : | Integral Antenna                                                                                                                                                                                                                      |
| Power Supply            | : | DC 3.7V & DC 5V (Power by USB Port)                                                                                                                                                                                                   |
| Modulation mode         | : | GFSK                                                                                                                                                                                                                                  |
| Applicant               | : | Shenzhen First Coating Technology Co., Ltd                                                                                                                                                                                            |
| Address                 | : | Floor 501, Bldg. A, Rongfeng Packaging Ind. Park, Nanwan Street, Longgang District, Shenzhen, Guangdong, China                                                                                                                        |
| Manufacturer            | : | Shenzhen First Coating Technology Co., Ltd                                                                                                                                                                                            |
| Address                 | : | Floor 501, Bldg. A, Rongfeng Packaging Ind. Park, Nanwan Street, Longgang District, Shenzhen, Guangdong, China                                                                                                                        |
| Date of sample received | : | April 10, 2017                                                                                                                                                                                                                        |
| Date of Test            | : | April 18, 2017                                                                                                                                                                                                                        |

## 1.2.Carrier Frequency of Channels

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0       | 2402            | 10      | 2422            | 20      | 2442            | 30      | 2462            |
| 1       | 2404            | 11      | 2424            | 21      | 2444            | 31      | 2464            |
| 2       | 2406            | 12      | 2426            | 22      | 2446            | 32      | 2466            |
| 3       | 2408            | 13      | 2428            | 23      | 2448            | 33      | 2468            |
| 4       | 2410            | 14      | 2430            | 24      | 2450            | 34      | 2470            |
| 5       | 2412            | 15      | 2432            | 25      | 2452            | 35      | 2472            |
| 6       | 2414            | 16      | 2434            | 26      | 2454            | 36      | 2474            |
| 7       | 2416            | 17      | 2436            | 27      | 2456            | 37      | 2476            |
| 8       | 2418            | 18      | 2438            | 28      | 2458            | 38      | 2478            |
| 9       | 2420            | 19      | 2440            | 29      | 2460            | 39      | 2480            |

## 1.3.Special Accessory and Auxiliary Equipment

Notebook PC : Manufacturer: LENOVO  
M/N: 4290-RT8  
S/N: R9-FW93G 11/08

#### 1.4. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC  
The Registration Number is 752051

Listed by Industry Canada  
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee  
for Laboratories  
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.  
Science & Industry Park, Nanshan, Shenzhen, Guangdong  
P.R. China

#### 1.5. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2  
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2  
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2  
(Above 1GHz)

## 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

| Kind of equipment  | Manufacturer              | Type                                    | S/N        | Calibrated dates | Calibrated until |
|--------------------|---------------------------|-----------------------------------------|------------|------------------|------------------|
| EMI Test Receiver  | Rohde&Schwarz             | ESCS30                                  | 100307     | Jan. 7, 2017     | Jan. 6, 2018     |
| EMI Test Receiver  | Rohde&Schwarz             | ESPI3                                   | 101526/003 | Jan. 7, 2017     | Jan. 6, 2018     |
| Spectrum Analyzer  | Agilent                   | E7405A                                  | MY45115511 | Jan. 7, 2017     | Jan. 6, 2018     |
| Pre-Amplifier      | Rohde&Schwarz             | CBLU118354<br>0-01                      | 3791       | Jan. 7, 2017     | Jan. 6, 2018     |
| Loop Antenna       | Schwarzbeck               | FMZB1516                                | 1516131    | Jan. 12, 2018    | Jan. 12, 2018    |
| Bilog Antenna      | Schwarzbeck               | VULB9163                                | 9163-323   | Jan. 12, 2018    | Jan. 12, 2018    |
| Horn Antenna       | Schwarzbeck               | BBHA9120D                               | 9120D-655  | Jan. 12, 2018    | Jan. 12, 2017    |
| Horn Antenna       | Schwarzbeck               | BBHA9170                                | 9170-359   | Jan. 12, 2018    | Jan. 12, 2018    |
| LISN               | Rohde&Schwarz             | ESH3-Z5                                 | 100305     | Jan. 7, 2017     | Jan. 6, 2018     |
| LISN               | Schwarzbeck               | NSLK8126                                | 8126431    | Jan. 7, 2017     | Jan. 6, 2018     |
| Highpass Filter    | Wainwright<br>Instruments | WHKX3.6/18<br>G-10SS                    | N/A        | Jan. 7, 2017     | Jan. 6, 2018     |
| Band Reject Filter | Wainwright<br>Instruments | WRCG2400/2<br>485-2375/2510<br>-60/11SS | N/A        | Jan. 7, 2017     | Jan. 6, 2018     |



### 3. OPERATION OF EUT DURING TESTING

#### 3.1.Operating Mode

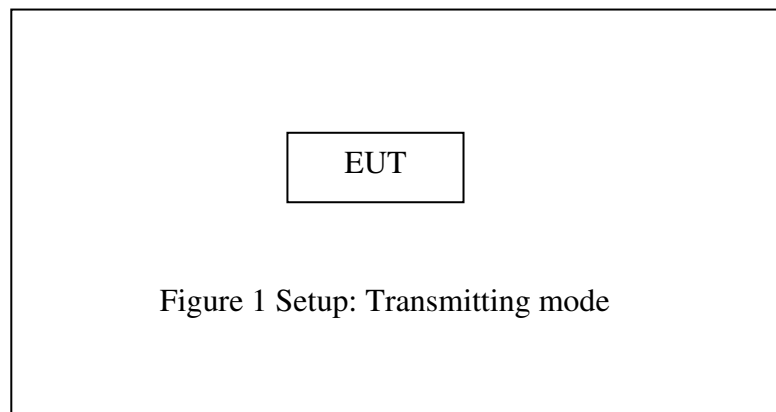
The mode is used: **BLE Transmitting mode**

Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

#### 3.2.Configuration and peripherals

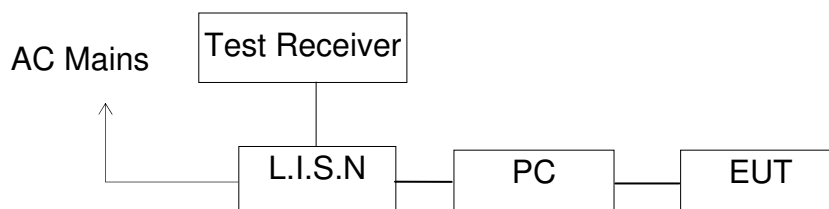


#### 4. TEST PROCEDURES AND RESULTS

| FCC Rules                           | Description of Test                   | Result    |
|-------------------------------------|---------------------------------------|-----------|
| Section 15.247(a)(2)                | 6dB Bandwidth Test                    | Compliant |
| Section 15.247(e)                   | Power Spectral Density Test           | Compliant |
| Section 15.247(b)(3)                | Maximum Peak Output Power Test        | Compliant |
| Section 15.247(d)                   | Band Edge Compliance Test             | Compliant |
| Section 15.247(d)<br>Section 15.209 | Radiated Spurious Emission Test       | Compliant |
| Section 15.247(d)                   | Conducted Spurious Emission Test      | Compliant |
| Section 15.207                      | AC Power Line Conducted Emission Test | Compliant |
| Section 15.203                      | Antenna Requirement                   | Compliant |

## 5. POWER LINE CONDUCTED MEASUREMENT

### 5.1. Block Diagram of Test Setup



(EUT: Smart Bracelet)

### 5.2. Power Line Conducted Emission Measurement Limits

| Frequency<br>(MHz)                                                                                                                                                            | Limit dB(μV)     |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
|                                                                                                                                                                               | Quasi-peak Level | Average Level |
| 0.15 - 0.50                                                                                                                                                                   | 66.0 – 56.0 *    | 56.0 – 46.0 * |
| 0.50 - 5.00                                                                                                                                                                   | 56.0             | 46.0          |
| 5.00 - 30.00                                                                                                                                                                  | 60.0             | 50.0          |
| NOTE1: The lower limit shall apply at the transition frequencies.<br>NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz. |                  |               |

### 5.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

### 5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in test mode and measure it.

### 5.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

## 5.6.Power Line Conducted Emission Measurement Results

**PASS.**

The frequency range from 150kHz to 30MHz is checked.

|                                              |               |              |               |              |          |      |     |  |
|----------------------------------------------|---------------|--------------|---------------|--------------|----------|------|-----|--|
| Test mode : Charging<br>AC 120V; 60Hz        |               |              |               |              |          |      |     |  |
| <b>MEASUREMENT RESULT: "FC-0418-02_fin"</b>  |               |              |               |              |          |      |     |  |
| 4/18/2017 5:41PM                             |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                             | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.150000                                     | 53.50         | 10.5         | 66            | 12.5         | QP       | N    | GND |  |
| 0.490000                                     | 38.50         | 10.7         | 56            | 17.7         | QP       | N    | GND |  |
| 1.905000                                     | 28.70         | 11.0         | 56            | 27.3         | QP       | N    | GND |  |
| 2.760000                                     | 25.20         | 11.0         | 56            | 30.8         | QP       | N    | GND |  |
| 5.180000                                     | 20.70         | 11.2         | 60            | 39.3         | QP       | N    | GND |  |
| 29.530000                                    | 23.30         | 11.5         | 60            | 36.7         | QP       | N    | GND |  |
| <b>MEASUREMENT RESULT: "FC-0418-02_fin2"</b> |               |              |               |              |          |      |     |  |
| 4/18/2017 5:41PM                             |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                             | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.155000                                     | 38.30         | 10.5         | 56            | 17.4         | AV       | N    | GND |  |
| 0.490000                                     | 34.70         | 10.7         | 46            | 11.5         | AV       | N    | GND |  |
| 1.905000                                     | 23.90         | 11.0         | 46            | 22.1         | AV       | N    | GND |  |
| 2.140000                                     | 23.90         | 11.0         | 46            | 22.1         | AV       | N    | GND |  |
| 5.150000                                     | 13.10         | 11.2         | 50            | 36.9         | AV       | N    | GND |  |
| 23.995000                                    | 21.20         | 11.5         | 50            | 28.8         | AV       | N    | GND |  |
| <b>MEASUREMENT RESULT: "FC-0418-01_fin"</b>  |               |              |               |              |          |      |     |  |
| 4/18/2017 5:37PM                             |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                             | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.165000                                     | 51.30         | 10.5         | 65            | 13.9         | QP       | L1   | GND |  |
| 0.490000                                     | 38.80         | 10.7         | 56            | 17.4         | QP       | L1   | GND |  |
| 2.000000                                     | 28.50         | 11.0         | 56            | 27.5         | QP       | L1   | GND |  |
| 3.560000                                     | 23.90         | 11.1         | 56            | 32.1         | QP       | L1   | GND |  |
| 5.250000                                     | 18.70         | 11.2         | 60            | 41.3         | QP       | L1   | GND |  |
| 26.890000                                    | 23.40         | 11.5         | 60            | 36.6         | QP       | L1   | GND |  |
| <b>MEASUREMENT RESULT: "FC-0418-01_fin2"</b> |               |              |               |              |          |      |     |  |
| 4/18/2017 5:37PM                             |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                             | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.170000                                     | 36.40         | 10.5         | 55            | 18.6         | AV       | L1   | GND |  |
| 0.490000                                     | 34.90         | 10.7         | 46            | 11.3         | AV       | L1   | GND |  |
| 1.990000                                     | 22.90         | 11.0         | 46            | 23.1         | AV       | L1   | GND |  |
| 2.280000                                     | 23.10         | 11.0         | 46            | 22.9         | AV       | L1   | GND |  |
| 5.260000                                     | 11.00         | 11.2         | 50            | 39.0         | AV       | L1   | GND |  |
| 23.995000                                    | 22.40         | 11.5         | 50            | 27.6         | AV       | L1   | GND |  |

Test mode : Charging  
AC 240V; 60Hz

**MEASUREMENT RESULT: "FC-0418-04\_fin"**

4/18/2017 8:39AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.155000         | 50.90         | 10.5         | 66            | 14.8         | QP       | L1   | GND |
| 0.505000         | 37.80         | 10.7         | 56            | 18.2         | QP       | L1   | GND |
| 1.835000         | 28.80         | 11.0         | 56            | 27.2         | QP       | L1   | GND |
| 2.670000         | 27.80         | 11.0         | 56            | 28.2         | QP       | L1   | GND |
| 5.310000         | 20.10         | 11.2         | 60            | 39.9         | QP       | L1   | GND |
| 26.080000        | 25.80         | 11.5         | 60            | 34.2         | QP       | L1   | GND |

**MEASUREMENT RESULT: "FC-0418-04\_fin2"**

4/18/2017 8:39AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.155000         | 35.80         | 10.5         | 56            | 19.9         | AV       | L1   | GND |
| 0.505000         | 34.70         | 10.7         | 46            | 11.3         | AV       | L1   | GND |
| 2.050000         | 27.80         | 11.0         | 46            | 18.2         | AV       | L1   | GND |
| 2.370000         | 22.50         | 11.0         | 46            | 23.5         | AV       | L1   | GND |
| 6.290000         | 15.80         | 11.2         | 50            | 34.2         | AV       | L1   | GND |
| 25.840000        | 20.70         | 11.5         | 50            | 29.3         | AV       | L1   | GND |

**MEASUREMENT RESULT: "FC-0418-03\_fin"**

4/18/2017 5:45PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.175000         | 48.70         | 10.5         | 65            | 16.0         | QP       | N    | GND |
| 0.505000         | 38.10         | 10.7         | 56            | 17.9         | QP       | N    | GND |
| 1.825000         | 28.30         | 11.0         | 56            | 27.7         | QP       | N    | GND |
| 2.170000         | 30.40         | 11.0         | 56            | 25.6         | QP       | N    | GND |
| 5.140000         | 21.80         | 11.2         | 60            | 38.2         | QP       | N    | GND |
| 28.120000        | 26.50         | 11.5         | 60            | 33.5         | QP       | N    | GND |

**MEASUREMENT RESULT: "FC-0418-03\_fin2"**

4/18/2017 5:45PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.155000         | 36.70         | 10.5         | 56            | 19.0         | AV       | N    | GND |
| 0.505000         | 34.90         | 10.7         | 46            | 11.1         | AV       | N    | GND |
| 2.030000         | 28.50         | 11.0         | 46            | 17.5         | AV       | N    | GND |
| 2.150000         | 26.00         | 11.0         | 46            | 20.0         | AV       | N    | GND |
| 6.450000         | 17.30         | 11.2         | 50            | 32.7         | AV       | N    | GND |
| 23.995000        | 22.70         | 11.5         | 50            | 27.3         | AV       | N    | GND |

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

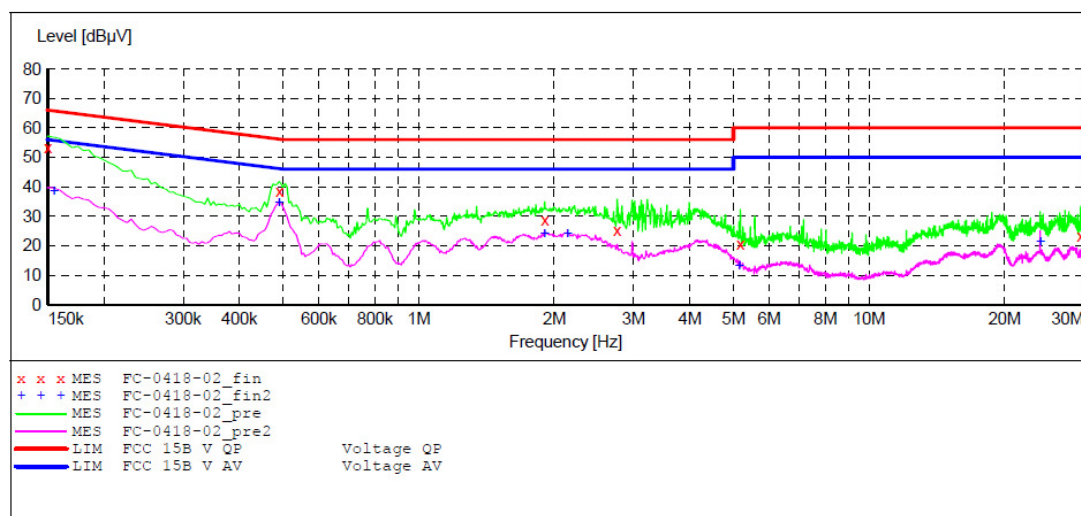
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Smart Bracelet M/N:F8  
 Manufacturer: FIRST COATING  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20170457  
 Start of Test: 4/18/2017 / 5:38:22PM

### SCAN TABLE: "V 9K-30MHz fin"

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008  
 Average  
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



### MEASUREMENT RESULT: "FC-0418-02\_fin"

4/18/2017 5:41PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.150000         | 53.50         | 10.5         | 66            | 12.5         | QP       | N    | GND |
| 0.490000         | 38.50         | 10.7         | 56            | 17.7         | QP       | N    | GND |
| 1.905000         | 28.70         | 11.0         | 56            | 27.3         | QP       | N    | GND |
| 2.760000         | 25.20         | 11.0         | 56            | 30.8         | QP       | N    | GND |
| 5.180000         | 20.70         | 11.2         | 60            | 39.3         | QP       | N    | GND |
| 29.530000        | 23.30         | 11.5         | 60            | 36.7         | QP       | N    | GND |

### MEASUREMENT RESULT: "FC-0418-02\_fin2"

4/18/2017 5:41PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.155000         | 38.30         | 10.5         | 56            | 17.4         | AV       | N    | GND |
| 0.490000         | 34.70         | 10.7         | 46            | 11.5         | AV       | N    | GND |
| 1.905000         | 23.90         | 11.0         | 46            | 22.1         | AV       | N    | GND |
| 2.140000         | 23.90         | 11.0         | 46            | 22.1         | AV       | N    | GND |
| 5.150000         | 13.10         | 11.2         | 50            | 36.9         | AV       | N    | GND |
| 23.995000        | 21.20         | 11.5         | 50            | 28.8         | AV       | N    | GND |



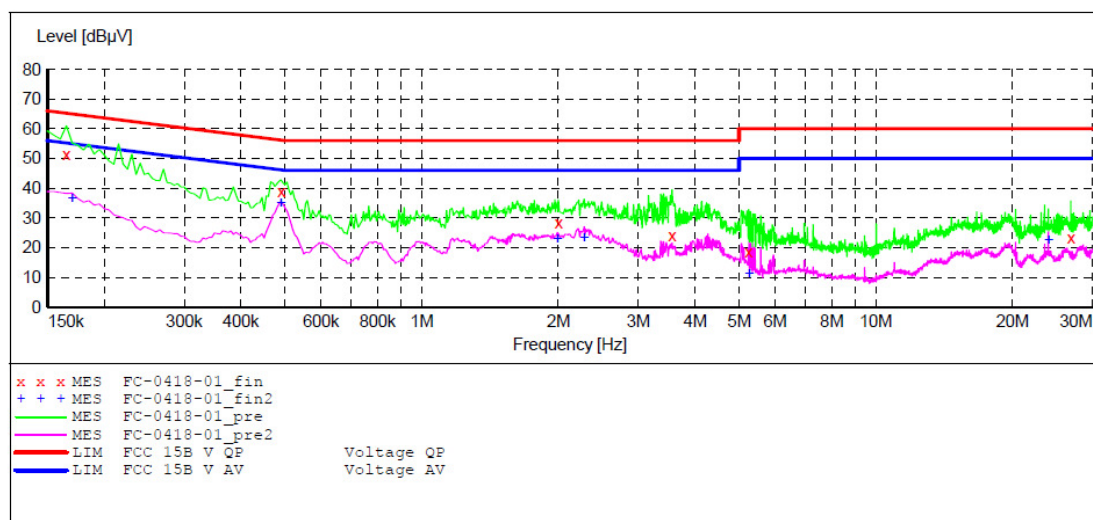
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Smart Bracelet M/N:F8  
 Manufacturer: FIRST COATING  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20170457  
 Start of Test: 4/18/2017 / 5:34:13PM

### SCAN TABLE: "V 9K-30MHz fin"

Short Description: \_SUB\_STD VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008  
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



### MEASUREMENT RESULT: "FC-0418-01\_fin"

4/18/2017 5:37PM

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.165000         | 51.30         | 10.5         | 65            | 13.9         | QP       | L1   | GND |
| 0.490000         | 38.80         | 10.7         | 56            | 17.4         | QP       | L1   | GND |
| 2.000000         | 28.50         | 11.0         | 56            | 27.5         | QP       | L1   | GND |
| 3.560000         | 23.90         | 11.1         | 56            | 32.1         | QP       | L1   | GND |
| 5.250000         | 18.70         | 11.2         | 60            | 41.3         | QP       | L1   | GND |
| 26.890000        | 23.40         | 11.5         | 60            | 36.6         | QP       | L1   | GND |

### MEASUREMENT RESULT: "FC-0418-01\_fin2"

4/18/2017 5:37PM

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.170000         | 36.40         | 10.5         | 55            | 18.6         | AV       | L1   | GND |
| 0.490000         | 34.90         | 10.7         | 46            | 11.3         | AV       | L1   | GND |
| 1.990000         | 22.90         | 11.0         | 46            | 23.1         | AV       | L1   | GND |
| 2.280000         | 23.10         | 11.0         | 46            | 22.9         | AV       | L1   | GND |
| 5.260000         | 11.00         | 11.2         | 50            | 39.0         | AV       | L1   | GND |
| 23.995000        | 22.40         | 11.5         | 50            | 27.6         | AV       | L1   | GND |



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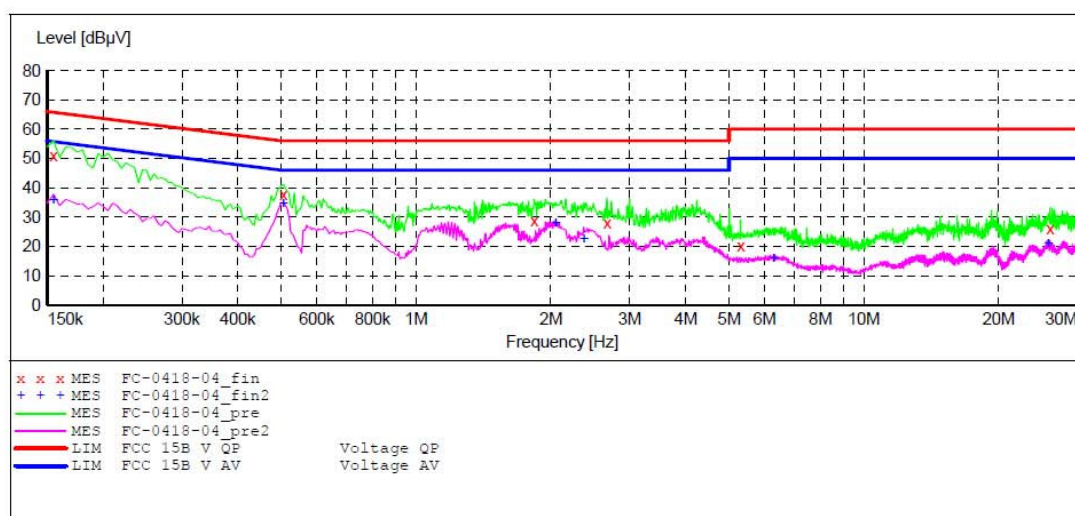
## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Smart Bracelet M/N:F8  
 Manufacturer: FIRST COATING  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 240V/60Hz  
 Comment: Report NO.:ATE20170457  
 Start of Test: 4/18/2017 / 8:36:34AM

### SCAN TABLE: "V 9K-30MHz fin"

Short Description: \_SUB\_STD\_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector  | Meas. Time | IF Bandw. | Transducer    |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 9.0 kHz         | 150.0 kHz      | 100.0 Hz   | QuasiPeak | 1.0 s      | 200 Hz    | NSLK8126 2008 |
| 150.0 kHz       | 30.0 MHz       | 5.0 kHz    | QuasiPeak | 1.0 s      | 9 kHz     | NSLK8126 2008 |
| Average         |                |            |           |            |           |               |



### MEASUREMENT RESULT: "FC-0418-04\_fin"

4/18/2017 8:39AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.155000      | 50.90      | 10.5      | 66         | 14.8      | QP       | L1   | GND |
| 0.505000      | 37.80      | 10.7      | 56         | 18.2      | QP       | L1   | GND |
| 1.835000      | 28.80      | 11.0      | 56         | 27.2      | QP       | L1   | GND |
| 2.670000      | 27.80      | 11.0      | 56         | 28.2      | QP       | L1   | GND |
| 5.310000      | 20.10      | 11.2      | 60         | 39.9      | QP       | L1   | GND |
| 26.080000     | 25.80      | 11.5      | 60         | 34.2      | QP       | L1   | GND |

### MEASUREMENT RESULT: "FC-0418-04\_fin2"

4/18/2017 8:39AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.155000      | 35.80      | 10.5      | 56         | 19.9      | AV       | L1   | GND |
| 0.505000      | 34.70      | 10.7      | 46         | 11.3      | AV       | L1   | GND |
| 2.050000      | 27.80      | 11.0      | 46         | 18.2      | AV       | L1   | GND |
| 2.370000      | 22.50      | 11.0      | 46         | 23.5      | AV       | L1   | GND |
| 6.290000      | 15.80      | 11.2      | 50         | 34.2      | AV       | L1   | GND |
| 25.840000     | 20.70      | 11.5      | 50         | 29.3      | AV       | L1   | GND |

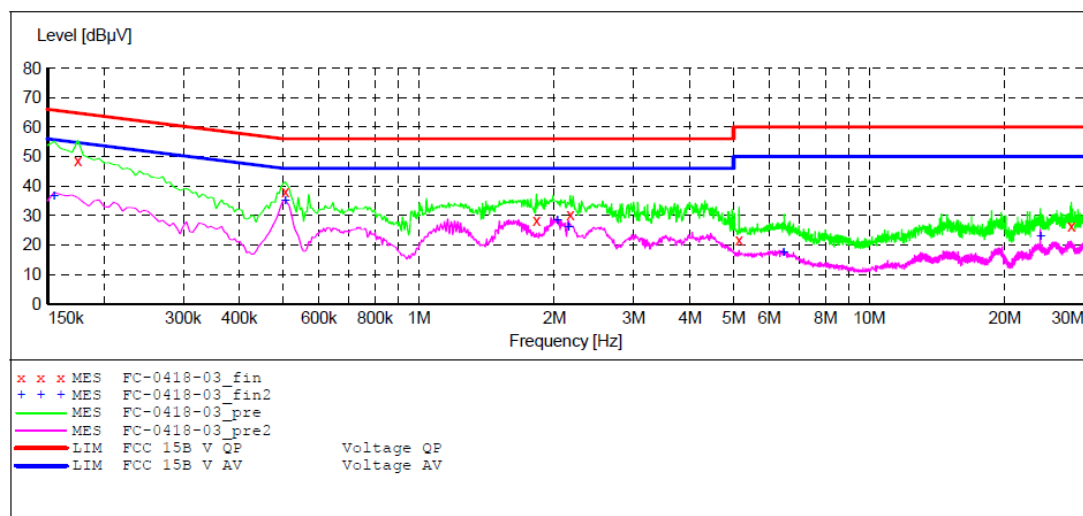
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Smart Bracelet M/N:F8  
 Manufacturer: FIRST COATING  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 240V/60Hz  
 Comment: Report NO.:ATE20170457  
 Start of Test: 4/18/2017 / 5:42:14PM

### SCAN TABLE: "V 9K-30MHz fin"

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008  
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



### MEASUREMENT RESULT: "FC-0418-03\_fin"

4/18/2017 5:45PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.175000         | 48.70         | 10.5         | 65            | 16.0         | QP       | N    | GND |
| 0.505000         | 38.10         | 10.7         | 56            | 17.9         | QP       | N    | GND |
| 1.825000         | 28.30         | 11.0         | 56            | 27.7         | QP       | N    | GND |
| 2.170000         | 30.40         | 11.0         | 56            | 25.6         | QP       | N    | GND |
| 5.140000         | 21.80         | 11.2         | 60            | 38.2         | QP       | N    | GND |
| 28.120000        | 26.50         | 11.5         | 60            | 33.5         | QP       | N    | GND |

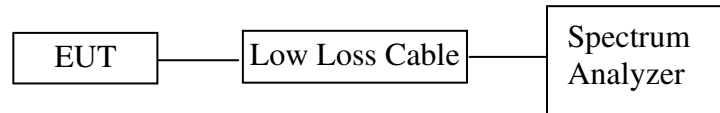
### MEASUREMENT RESULT: "FC-0418-03\_fin2"

4/18/2017 5:45PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.155000         | 36.70         | 10.5         | 56            | 19.0         | AV       | N    | GND |
| 0.505000         | 34.90         | 10.7         | 46            | 11.1         | AV       | N    | GND |
| 2.030000         | 28.50         | 11.0         | 46            | 17.5         | AV       | N    | GND |
| 2.150000         | 26.00         | 11.0         | 46            | 20.0         | AV       | N    | GND |
| 6.450000         | 17.30         | 11.2         | 50            | 32.7         | AV       | N    | GND |
| 23.995000        | 22.70         | 11.5         | 50            | 27.3         | AV       | N    | GND |

## 6. 6DB BANDWIDTH MEASUREMENT

### 6.1. Block Diagram of Test Setup



(EUT: Smart Bracelet)

### 6.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 6.3. EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 5.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

### 6.5. Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

20dB bandwidth

1. Set resolution bandwidth (RBW) = 1%-5% OBW.

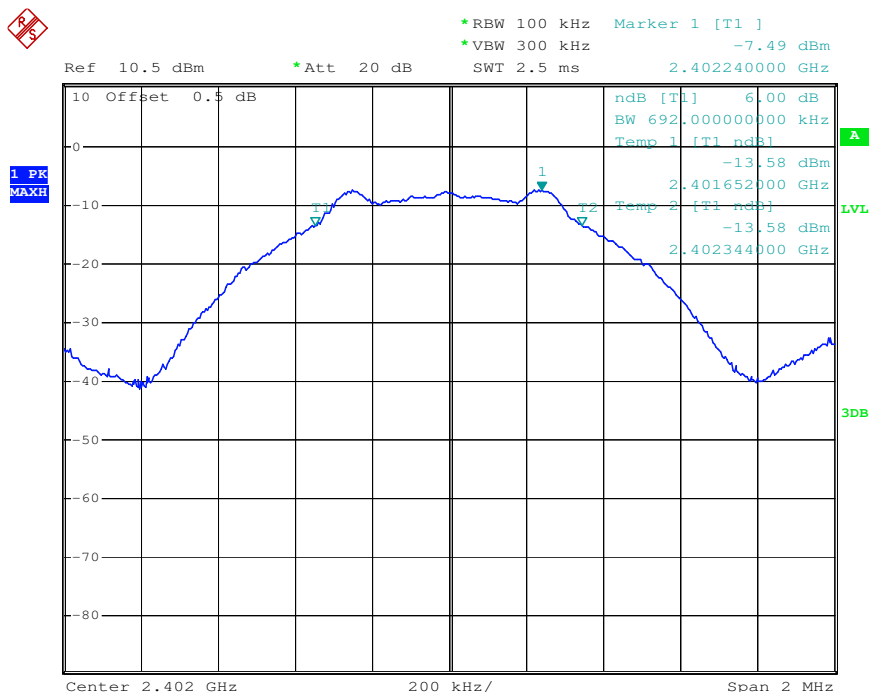
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the -20 dB levels with respect to the reference level

## 6.6.Test Result

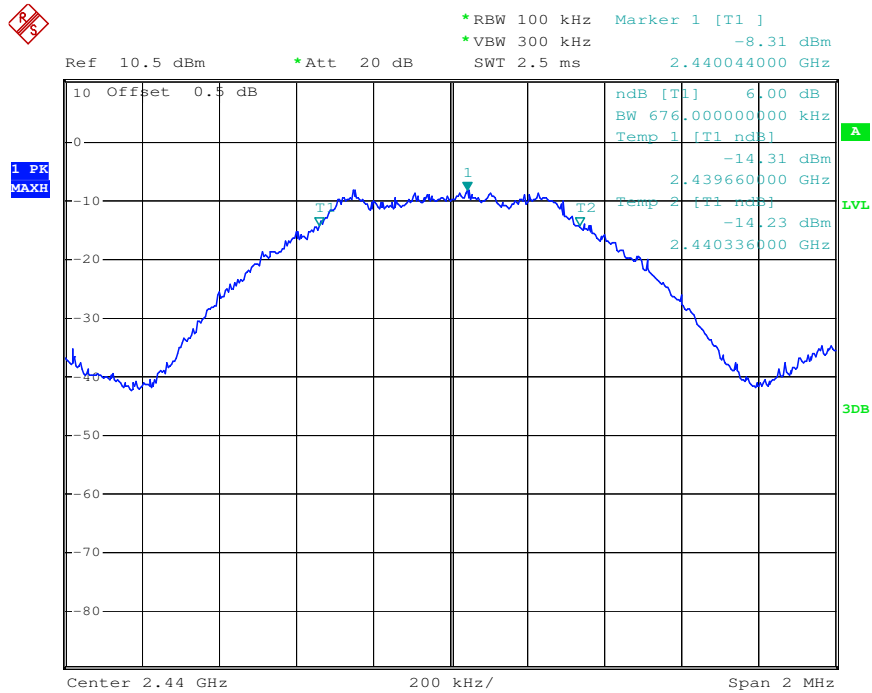
| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit(MHz) | PASS/FAIL |
|---------|-----------------|----------------------|--------------------|-----------|
| 0       | 2402            | 0.692                | 0.5                | PASS      |
| 19      | 2440            | 0.676                | 0.5                | PASS      |
| 39      | 2480            | 0.672                | 0.5                | PASS      |

The spectrum analyzer plots are attached as below.

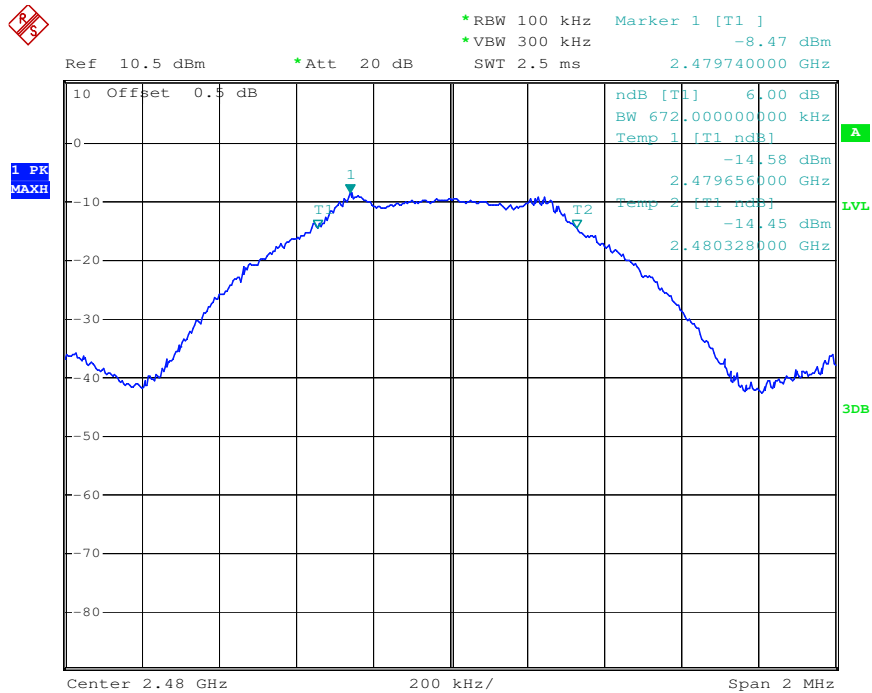
*channel 0*



## channel 19

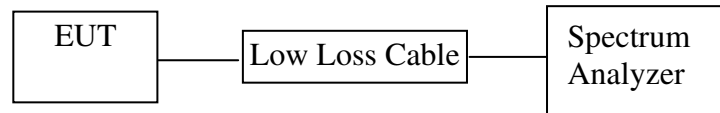


## channel 39



## 7. MAXIMUM PEAK OUTPUT POWER

### 7.1. Block Diagram of Test Setup



(EUT: Smart Bracelet)

### 7.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

### 7.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 6.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

### 7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.

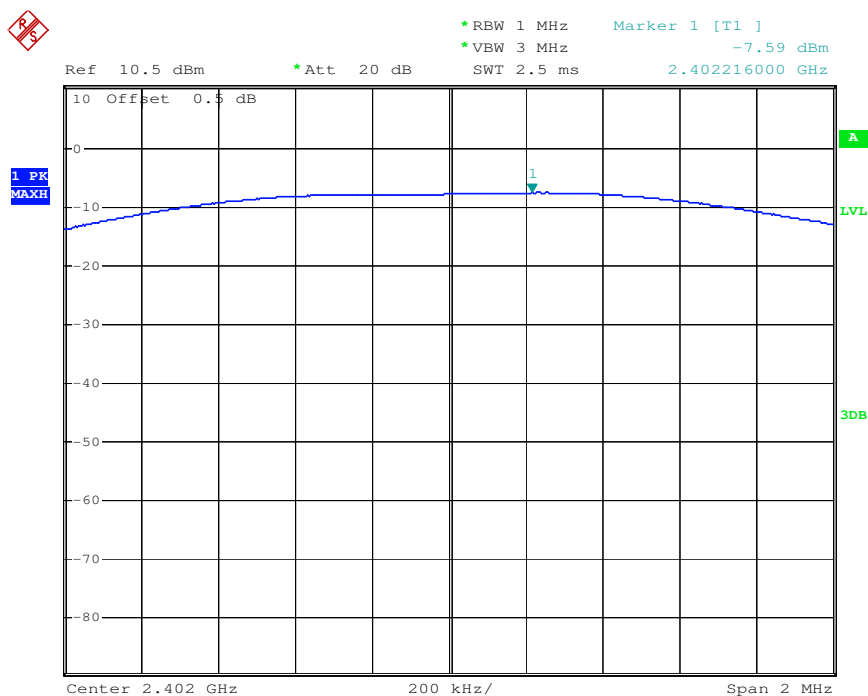
7.5.3. Measurement the maximum peak output power.

## 7.6. Test Result

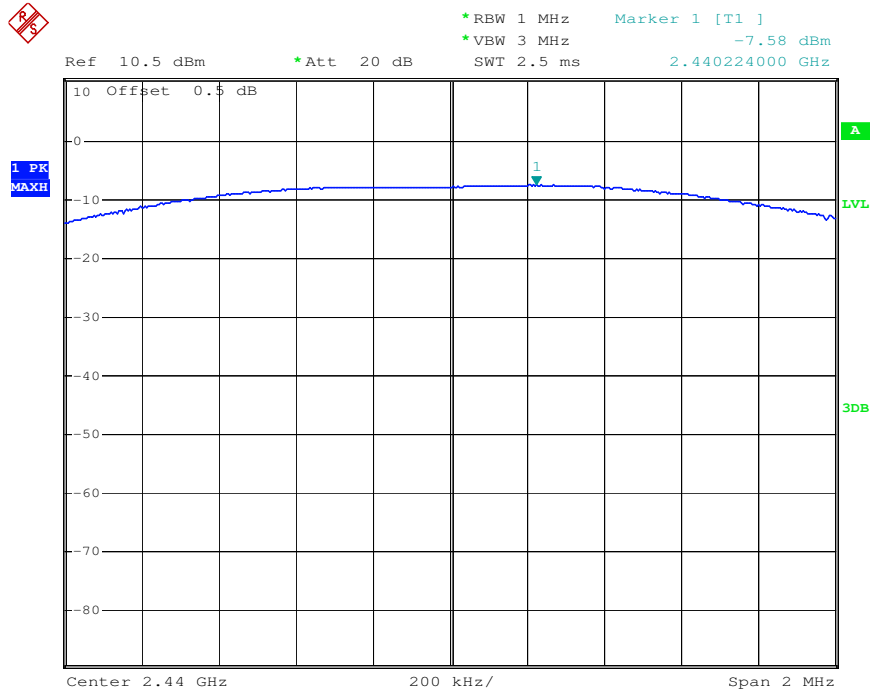
| Channel | Frequency (MHz) | Peak Power Output (dBm) | Peak Power Limit (dBm) | Pass / Fail |
|---------|-----------------|-------------------------|------------------------|-------------|
| 0       | 2402            | -7.59                   | 30                     | PASS        |
| 19      | 2440            | -7.58                   | 30                     | PASS        |
| 39      | 2480            | -7.63                   | 30                     | PASS        |

The spectrum analyzer plots are attached as below.

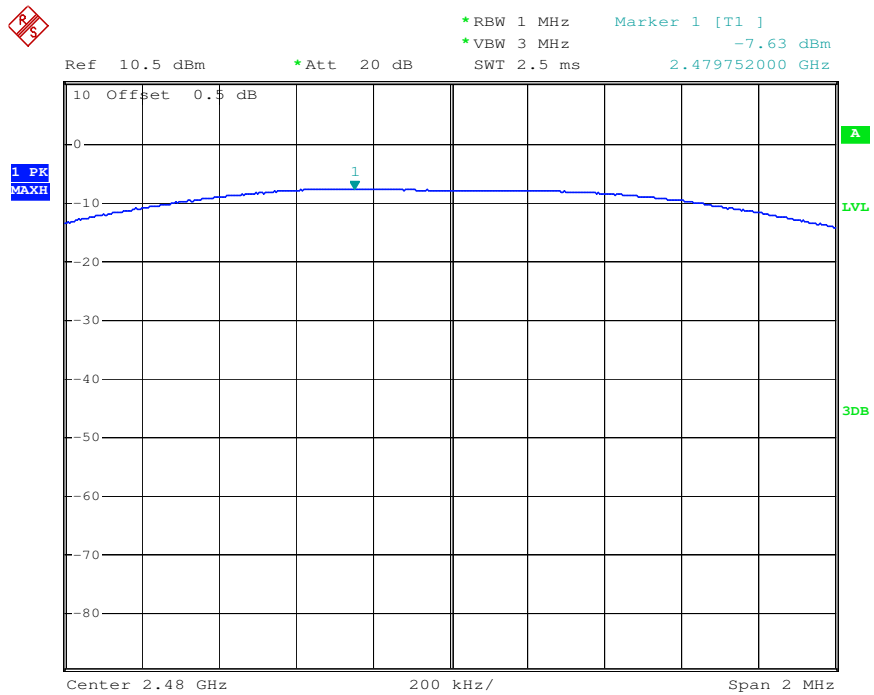
channel 0



## channel 19



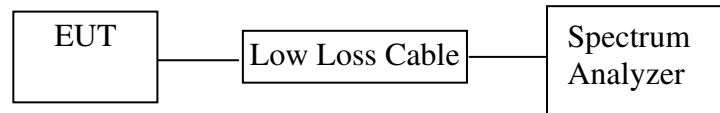
## channel 39





## 8. POWER SPECTRAL DENSITY MEASUREMENT

### 8.1. Block Diagram of Test Setup



(EUT: Smart Bracelet)

### 8.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 8.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 7.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

## 8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2. Measurement Procedure PKPSD:

8.5.3. This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

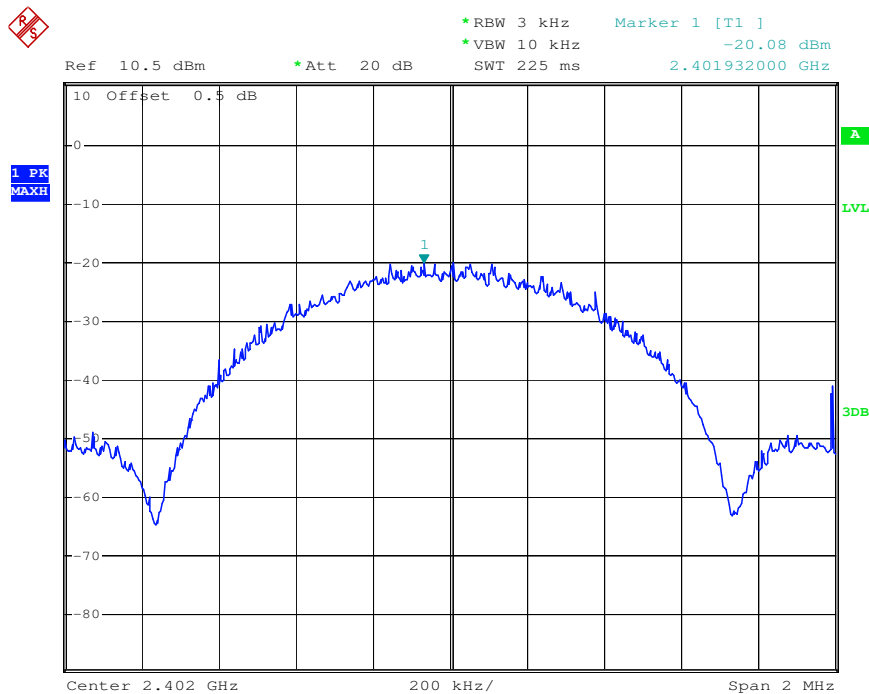
8.5.4. Measurement the maximum power spectral density.

## 8.6.Test Result

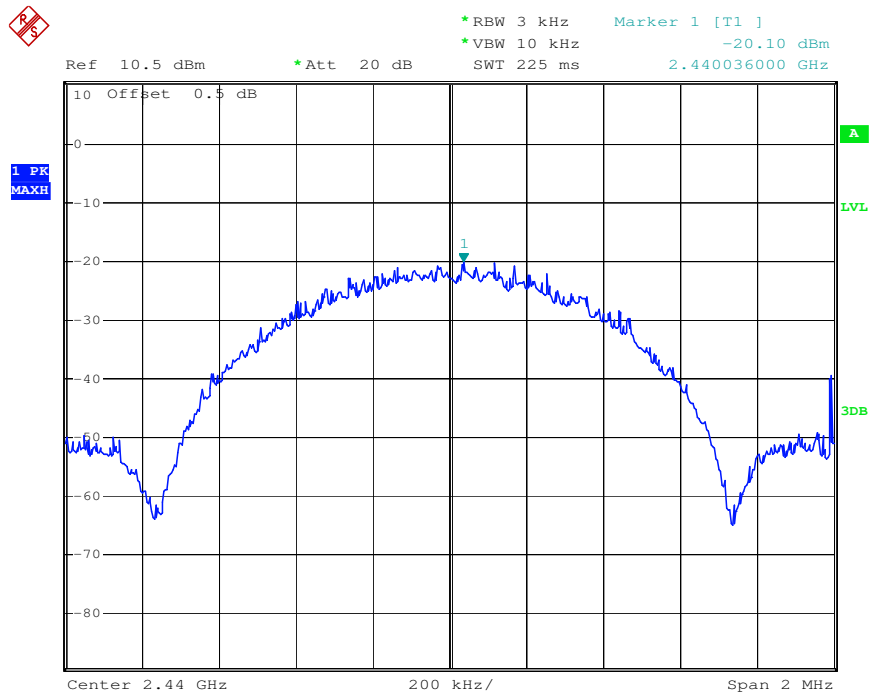
| CHANNEL NUMBER | FREQUENCY (MHz ) | PSD (dBm/3KHz) | LIMIT (dBm/3KHz) | PASS/FAIL |
|----------------|------------------|----------------|------------------|-----------|
| 0              | 2402             | -20.08         | 8                | PASS      |
| 19             | 2440             | -20.10         | 8                | PASS      |
| 39             | 2480             | -20.37         | 8                | PASS      |

The spectrum analyzer plots are attached as below.

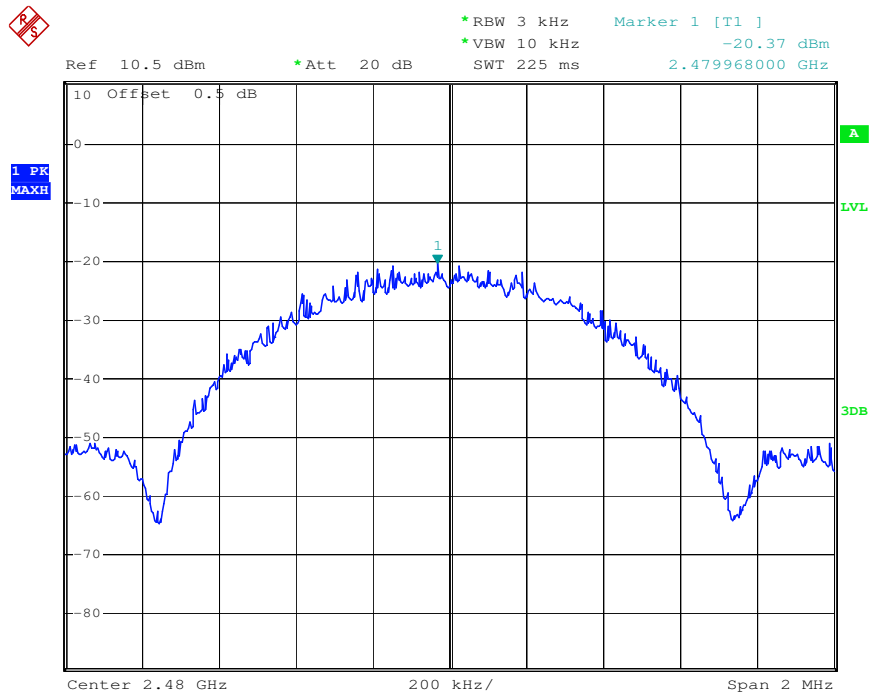
*channel 0*



## channel 19

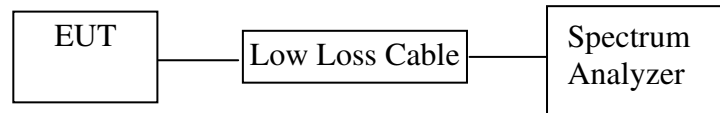


## channel 39



## 9. BAND EDGE COMPLIANCE TEST

### 9.1. Block Diagram of Test Setup



(EUT: Smart Bracelet)

### 9.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

### 9.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 9.4.Operating Condition of EUT

9.4.1.Setup the EUT and simulator as shown as Section 8.1.

9.4.2.Turn on the power of all equipment.

9.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

## 9.5.Test Procedure

Conducted Band Edge:

9.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

9.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

9.5.3. Radiate Band Edge:

9.5.4.The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

9.5.5.The turntable was rotated for 360 degrees to determine the position of maximum emission level.

9.5.6.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

9.5.7.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

9.5.8.RBW=1MHz, VBW=1MHz

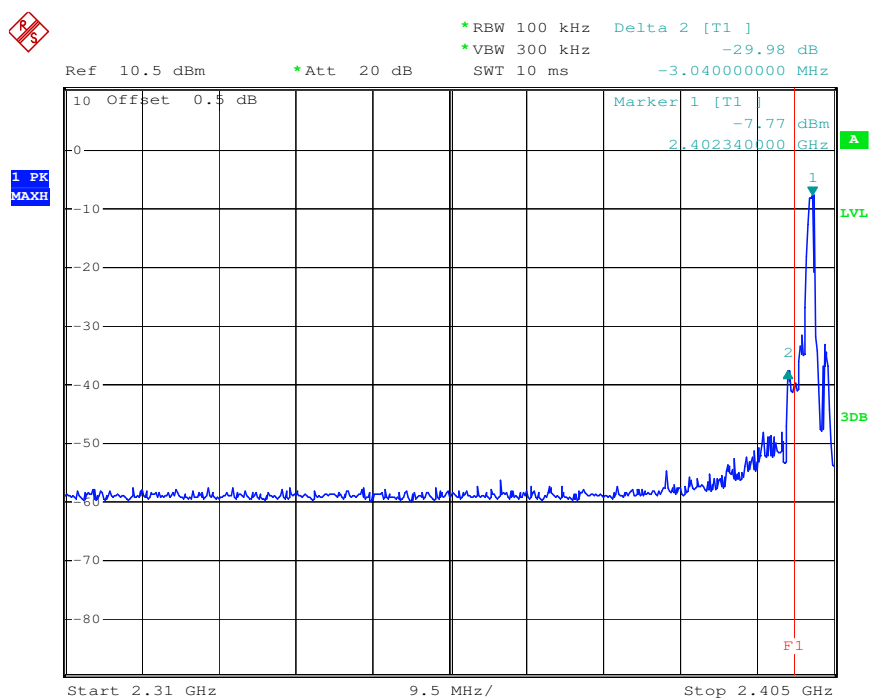
9.5.9.The band edges was measured and recorded.

## 9.6.Test Result

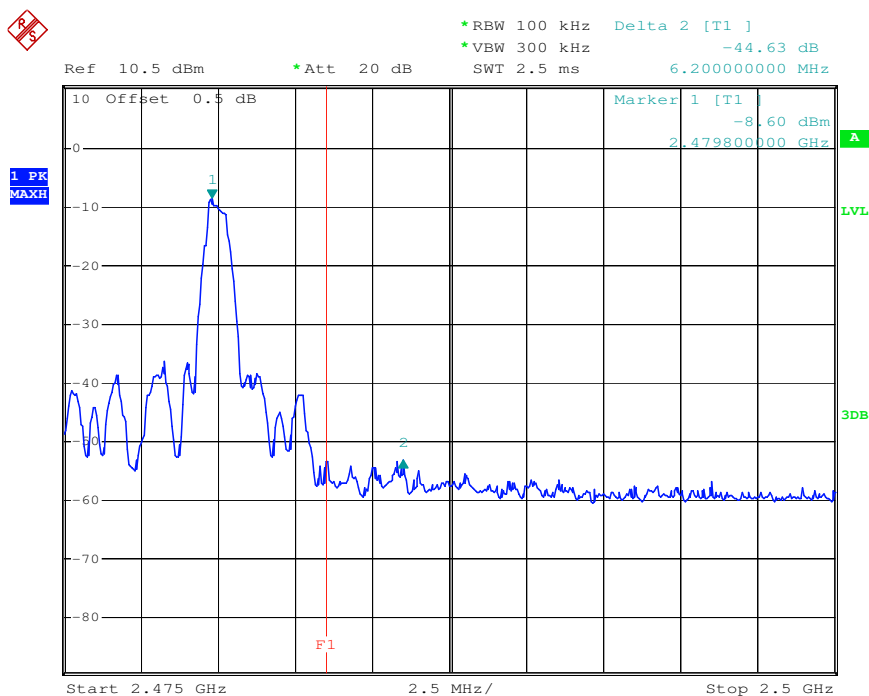
**Pass**

| Channel | Frequency | Delta peak to band emission | Limit(dBc) |
|---------|-----------|-----------------------------|------------|
| 0       | 2.4GHz    | 22.21                       | 20         |
| 39      | 2.4835GHz | 36.03                       | 20         |

## channel 0



## channel 39



## Radiated Band Edge Result

### Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

### Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX modes then measure it.

We select 2402MHz, 2480MHz TX frequency to transmit(GFSK mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.





## ACCURATE TECHNOLOGY CO., LTD.

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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: DING1 #1361

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2402MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Vertical

Power Source: DC 3.7V

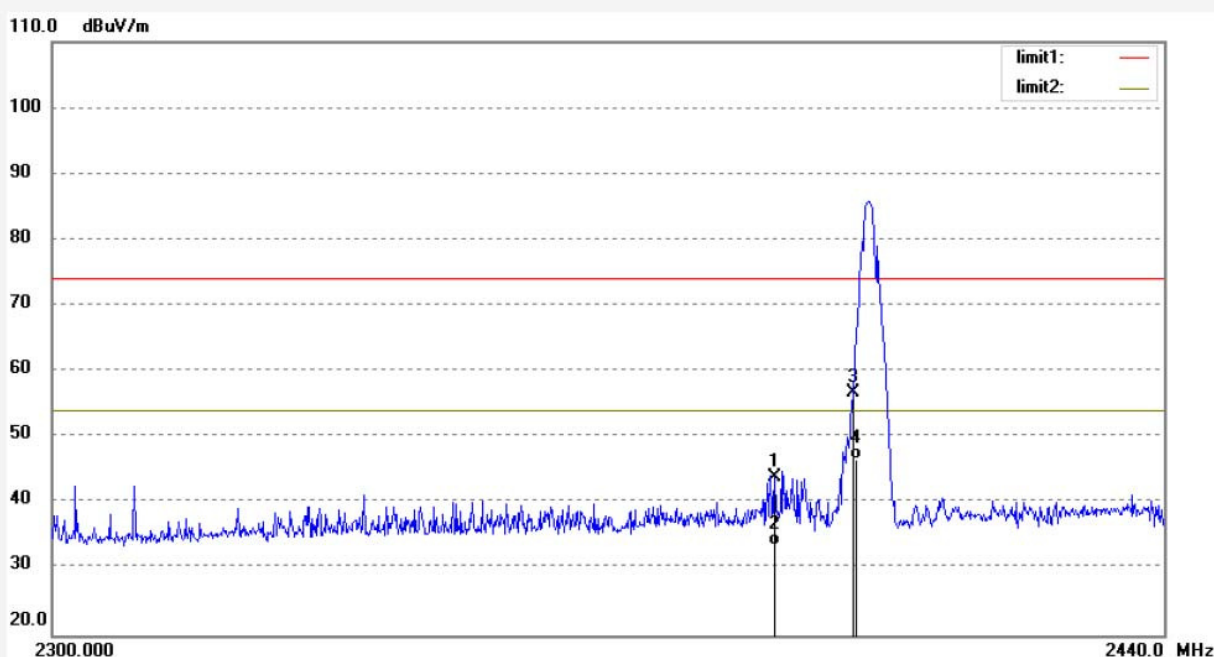
Date: 17/04/18/

Time: 9/16/31

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 2390.000       | 49.90               | -5.89          | 44.01              | 74.00             | -29.99         | peak     |                |                  |        |
| 2   | 2390.000       | 39.52               | -5.89          | 33.63              | 54.00             | -20.37         | AVG      |                |                  |        |
| 3   | 2400.000       | 62.58               | -5.80          | 56.78              | 74.00             | -17.22         | peak     |                |                  |        |
| 4   | 2400.000       | 52.41               | -5.80          | 46.61              | 54.00             | -7.39          | AVG      |                |                  |        |

Job No.: DING1 #1362

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2402MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Horizontal

Power Source: DC 3.7V

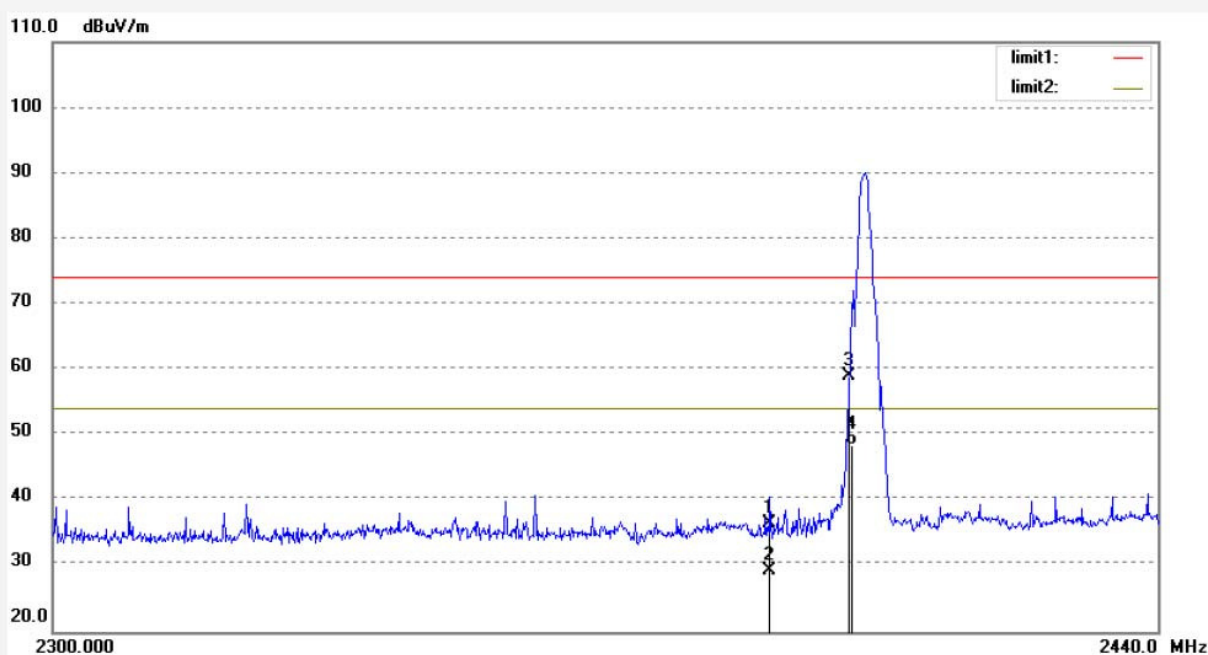
Date: 17/04/18/

Time: 9/20/00

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 42.34            | -5.89       | 36.45           | 74.00          | -37.55      | peak     |             |               |        |
| 2   | 2390.000    | 35.12            | -5.89       | 29.23           | 74.00          | -44.77      | peak     |             |               |        |
| 3   | 2400.000    | 64.79            | -5.80       | 58.99           | 74.00          | -15.01      | peak     |             |               |        |
| 4   | 2400.000    | 54.23            | -5.80       | 48.43           | 54.00          | -5.57       | AVG      |             |               |        |

Job No.: DING1 #1363

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2480MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Horizontal

Power Source: DC 3.7V

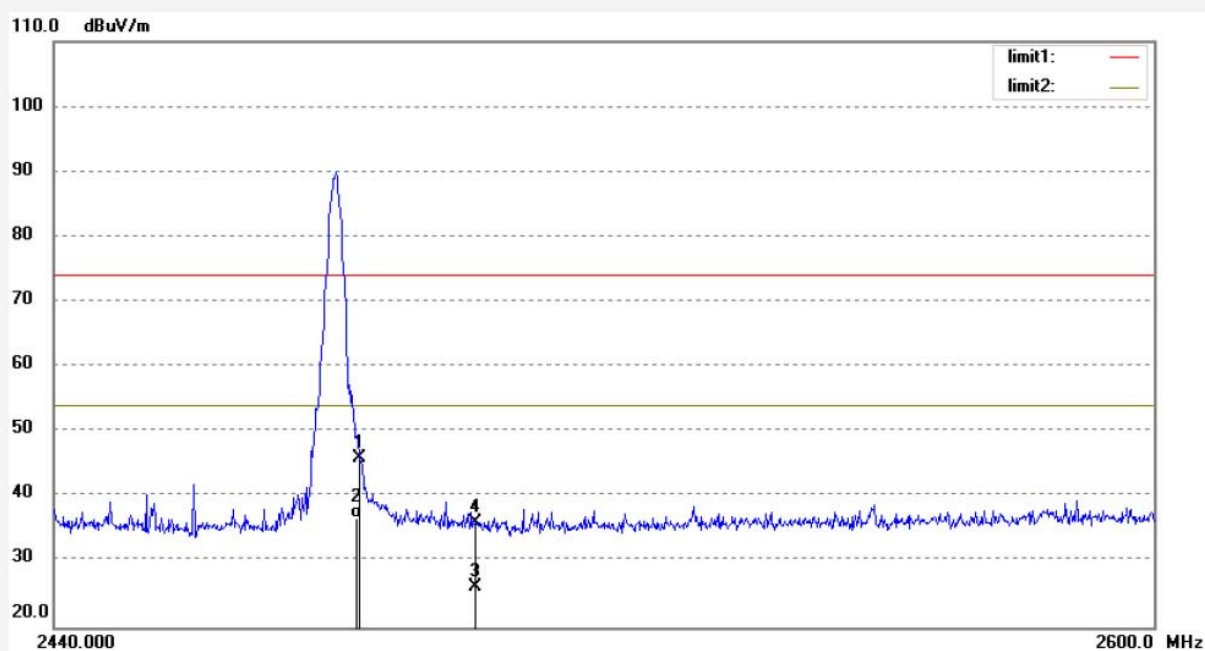
Date: 17/04/18/

Time: 9/25/19

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 51.50            | -5.51       | 45.99           | 74.00          | -28.01      | peak     |             |               |        |
| 2   | 2483.500    | 42.26            | -5.51       | 36.75           | 54.00          | -17.25      | AVG      |             |               |        |
| 3   | 2500.000    | 31.72            | -5.50       | 26.22           | 74.00          | -47.78      | peak     |             |               |        |
| 4   | 2500.000    | 41.53            | -5.50       | 36.03           | 74.00          | -37.97      | peak     |             |               |        |

Job No.: DING1 #1364

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2480MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Vertical

Power Source: DC 3.7V

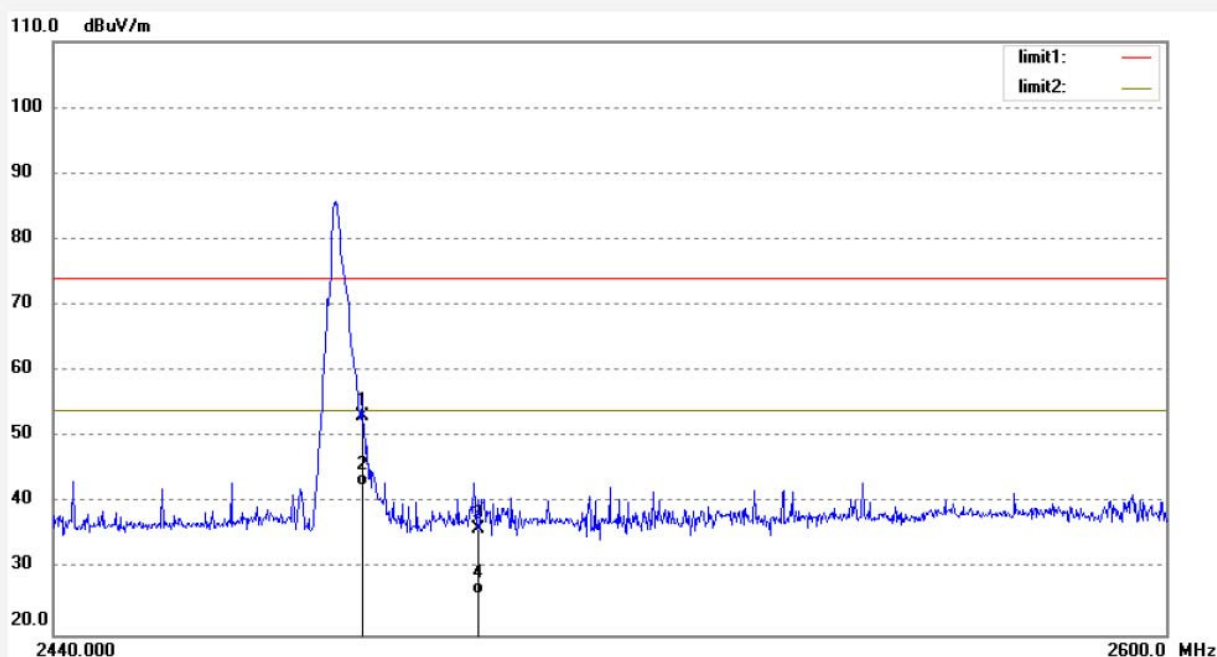
Date: 17/04/18/

Time: 9/38/50

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



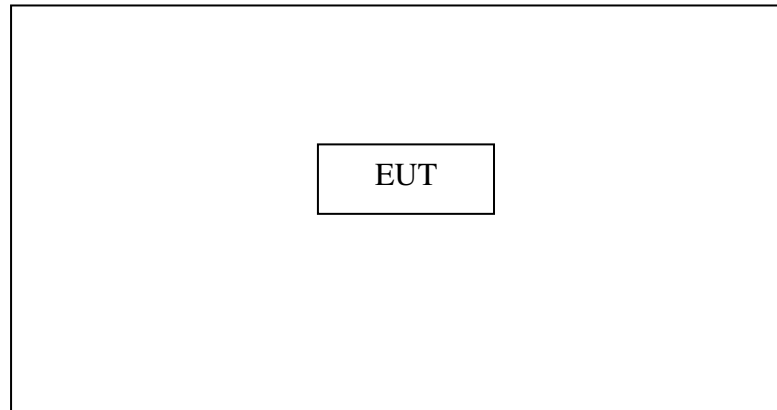
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 58.75            | -5.51       | 53.24           | 74.00          | -20.76      | peak     |             |               |        |
| 2   | 2483.500    | 48.02            | -5.51       | 42.51           | 54.00          | -11.49      | AVG      |             |               |        |
| 3   | 2500.000    | 41.57            | -5.50       | 36.07           | 74.00          | -37.93      | peak     |             |               |        |
| 4   | 2500.000    | 31.63            | -5.50       | 26.13           | 54.00          | -27.87      | AVG      |             |               |        |



## 10.RADIATED SPURIOUS EMISSION TEST

### 10.1.Block Diagram of Test Setup

#### 10.1.1.Block diagram of connection between the EUT and peripherals

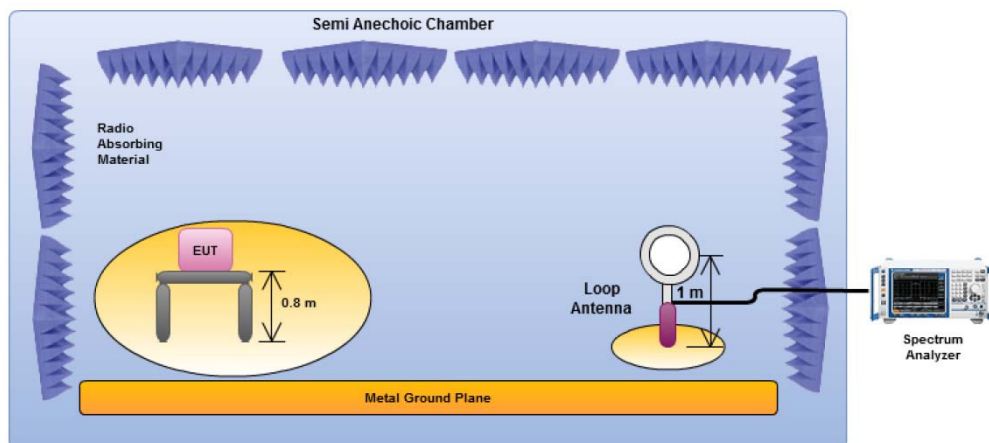


Setup: Transmitting mode

(EUT: Smart Bracelet)

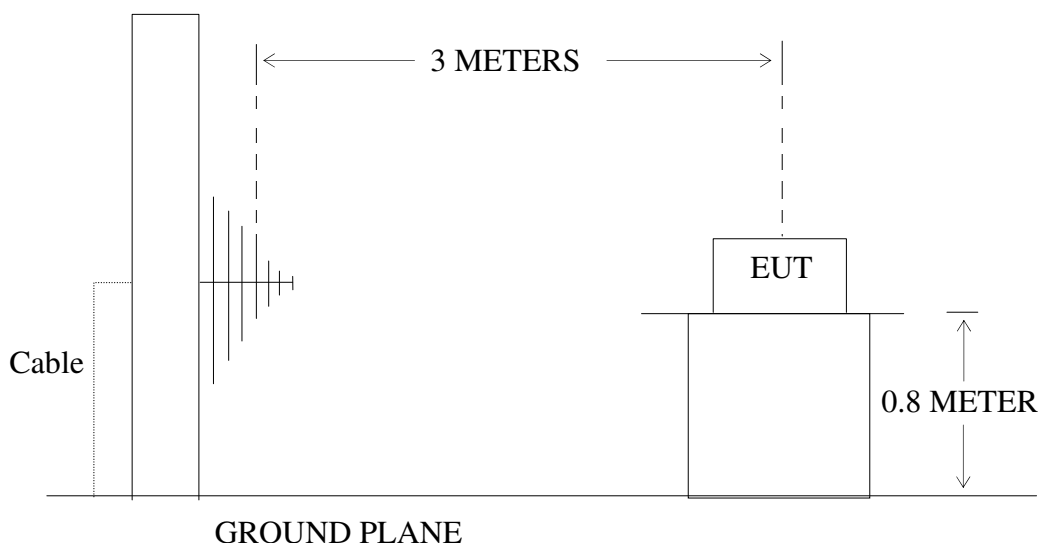
#### 10.1.2.Semi-Anechoic Chamber Test Setup Diagram

**Below 30MHz**



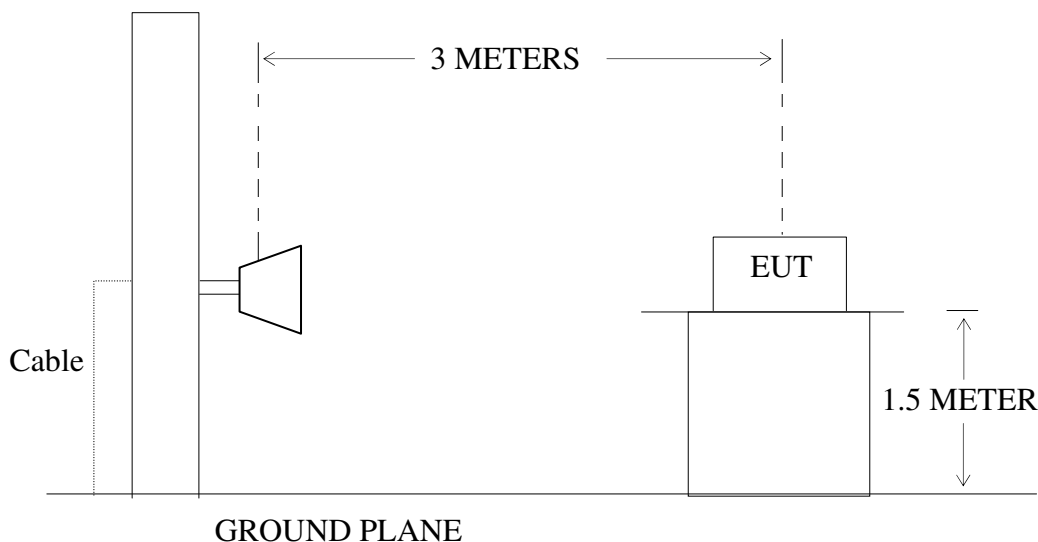
### 30MHz-1GHz

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



### Above 1GHz

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



## 10.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated

emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

### 10.3.Restricted bands of operation

#### 10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                      | MHz                 | MHz           | GHz              |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15         |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46        |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75        |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5        |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2          |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5          |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7        |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4       |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5       |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2       |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4        |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12      |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0        |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8        |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5       |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | ( <sup>2</sup> ) |
| 13.36-13.41              |                     |               |                  |

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

<sup>2</sup>Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

### 10.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 9.1.

10.5.2. Turn on the power of all equipment.

10.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

## 10.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

## 10.7. The Field Strength of Radiation Emission Measurement Results

**PASS.**

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. \*: Denotes restricted band of operation.**

**3. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.**



Job No.: DING #3476

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2402MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Vertical

Power Source: DC 3.7V

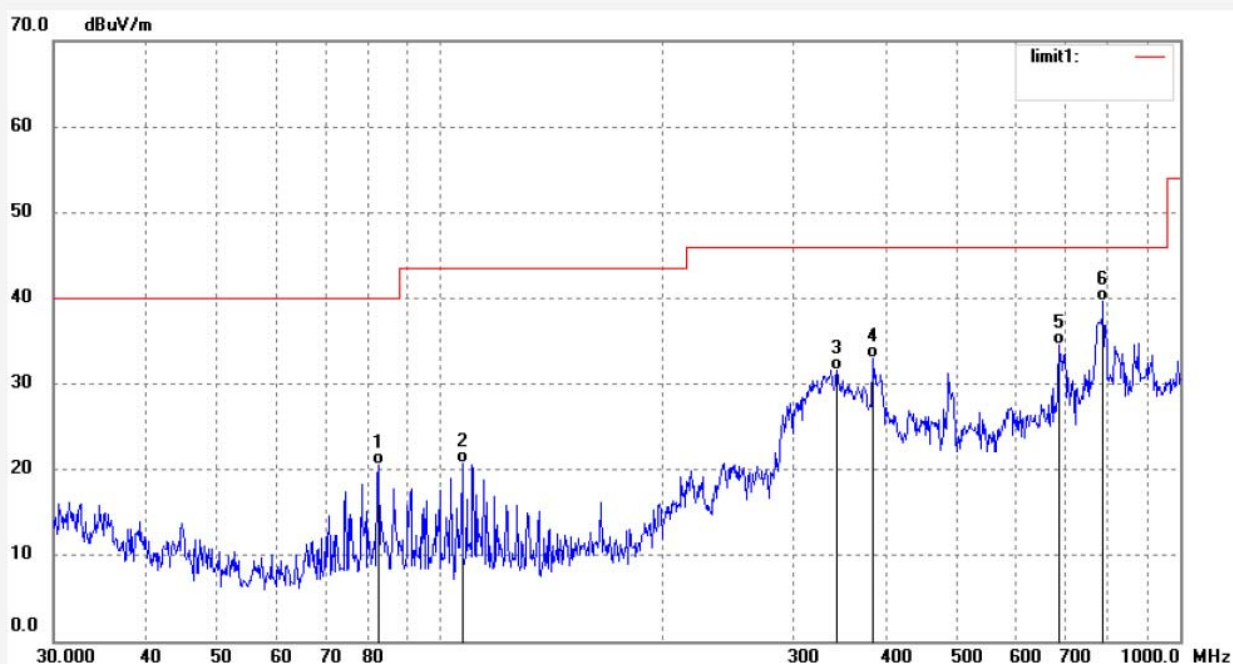
Date: 17/04/18/

Time: 12/47/39

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 82.5257     | 42.61            | -21.99      | 20.62           | 40.00          | -19.38      | QP       |             |               |        |
| 2   | 107.0306    | 43.07            | -22.35      | 20.72           | 43.50          | -22.78      | QP       |             |               |        |
| 3   | 343.6506    | 45.65            | -14.08      | 31.57           | 46.00          | -14.43      | QP       |             |               |        |
| 4   | 384.5447    | 46.12            | -13.21      | 32.91           | 46.00          | -13.09      | QP       |             |               |        |
| 5   | 686.6342    | 41.27            | -6.62       | 34.65           | 46.00          | -11.35      | QP       |             |               |        |
| 6   | 787.4749    | 44.00            | -4.40       | 39.60           | 46.00          | -6.40       | QP       |             |               |        |



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Job No.: DING #3477

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2402MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Horizontal

Power Source: DC 3.7V

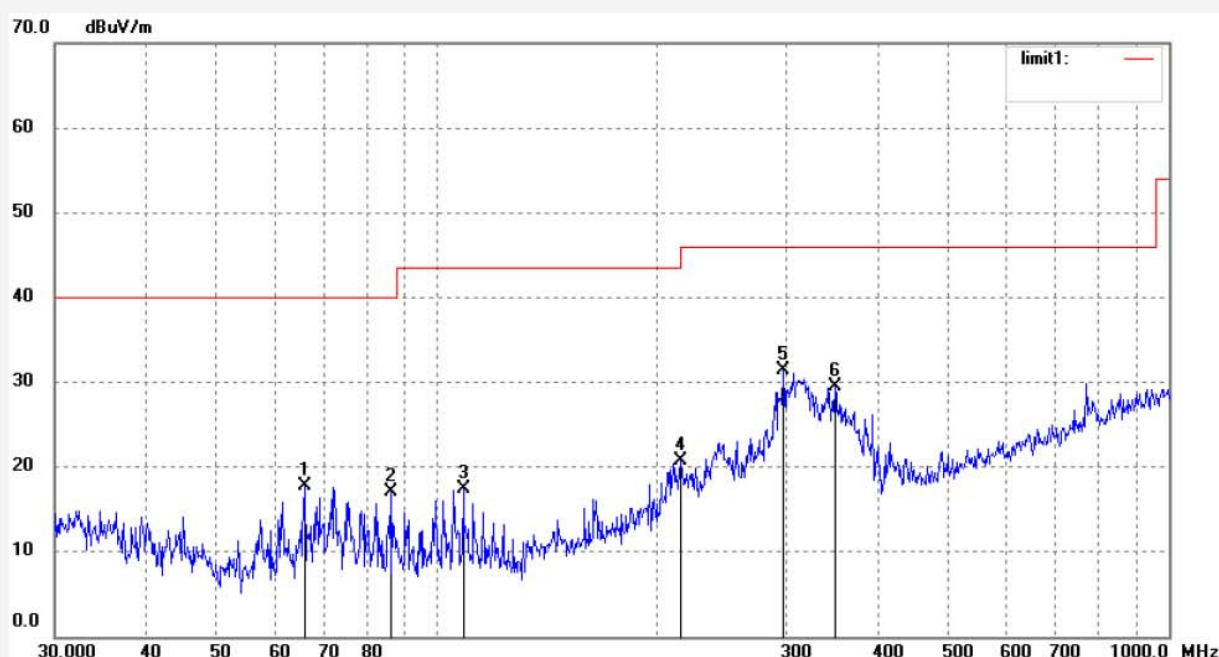
Date: 17/04/18/

Time: 12/48/23

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 65.9067     | 39.69            | -21.93      | 17.76           | 40.00          | -22.24      | peak     |             |               |        |
| 2   | 86.3826     | 38.99            | -21.95      | 17.04           | 40.00          | -22.96      | peak     |             |               |        |
| 3   | 108.5455    | 39.47            | -22.07      | 17.40           | 43.50          | -26.10      | peak     |             |               |        |
| 4   | 215.3616    | 39.20            | -18.41      | 20.79           | 43.50          | -22.71      | peak     |             |               |        |
| 5   | 297.5459    | 47.15            | -15.82      | 31.33           | 46.00          | -14.67      | peak     |             |               |        |
| 6   | 349.7412    | 43.37            | -13.82      | 29.55           | 46.00          | -16.45      | peak     |             |               |        |

Job No.: DING #3478

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2440MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Horizontal

Power Source: DC 3.7V

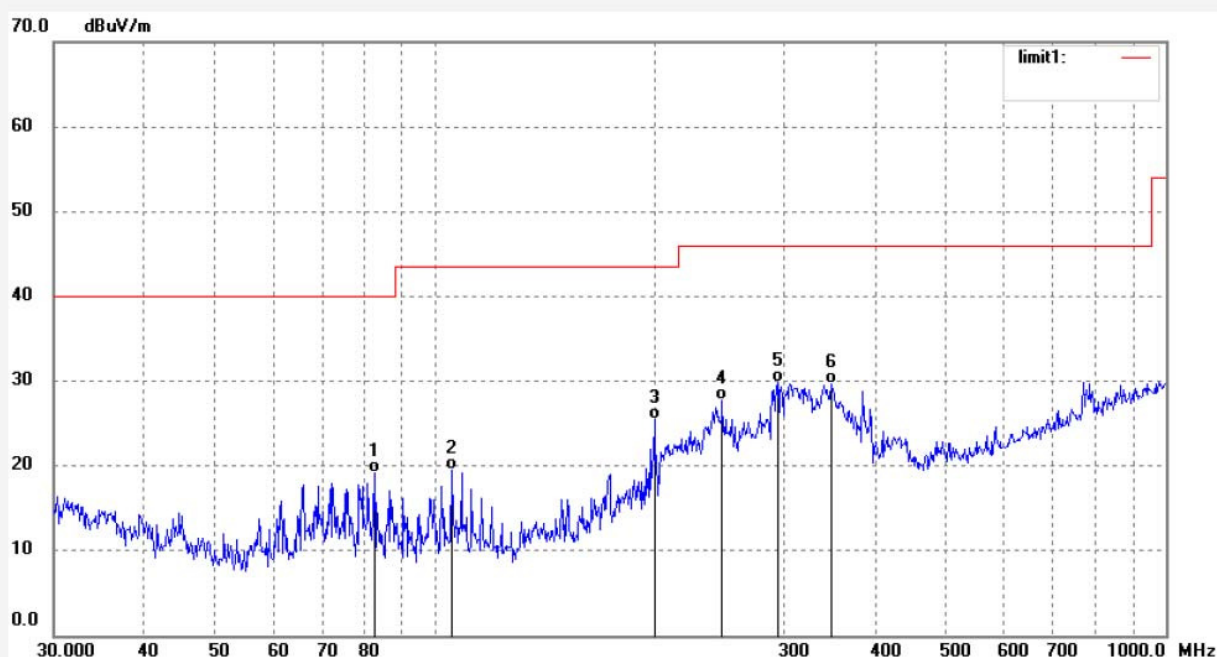
Date: 17/04/18/

Time: 12/49/18

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 82.5257     | 41.10            | -21.99      | 19.11           | 40.00          | -20.89      | QP       |             |               |        |
| 2   | 105.1668    | 42.24            | -22.69      | 19.55           | 43.50          | -23.95      | QP       |             |               |        |
| 3   | 199.3416    | 44.14            | -18.69      | 25.45           | 43.50          | -18.05      | QP       |             |               |        |
| 4   | 246.9901    | 45.93            | -18.14      | 27.79           | 46.00          | -18.21      | QP       |             |               |        |
| 5   | 294.4260    | 45.86            | -15.95      | 29.91           | 46.00          | -16.09      | QP       |             |               |        |
| 6   | 348.5145    | 43.61            | -13.87      | 29.74           | 46.00          | -16.26      | QP       |             |               |        |





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Job No.: DING #3479

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2440MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Vertical

Power Source: DC 3.7V

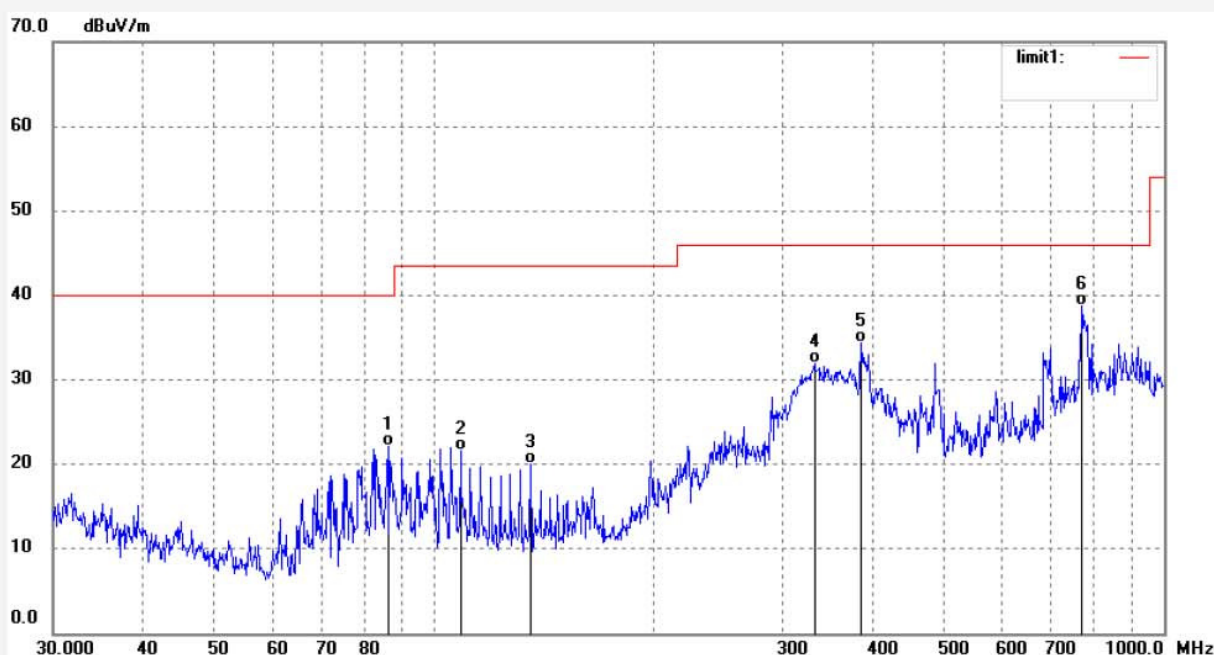
Date: 17/04/18/

Time: 12/50/32

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 86.3826     | 44.15            | -21.95      | 22.20           | 40.00          | -17.80      | QP       |             |               |        |
| 2   | 108.5455    | 43.76            | -22.07      | 21.69           | 43.50          | -21.81      | QP       |             |               |        |
| 3   | 135.4395    | 42.24            | -22.24      | 20.00           | 43.50          | -23.50      | QP       |             |               |        |
| 4   | 331.7858    | 46.50            | -14.57      | 31.93           | 46.00          | -14.07      | QP       |             |               |        |
| 5   | 384.5447    | 47.66            | -13.21      | 34.45           | 46.00          | -11.55      | QP       |             |               |        |
| 6   | 771.0475    | 43.48            | -4.73       | 38.75           | 46.00          | -7.25       | QP       |             |               |        |

Job No.: DING #3480

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2480MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Vertical

Power Source: DC 3.7V

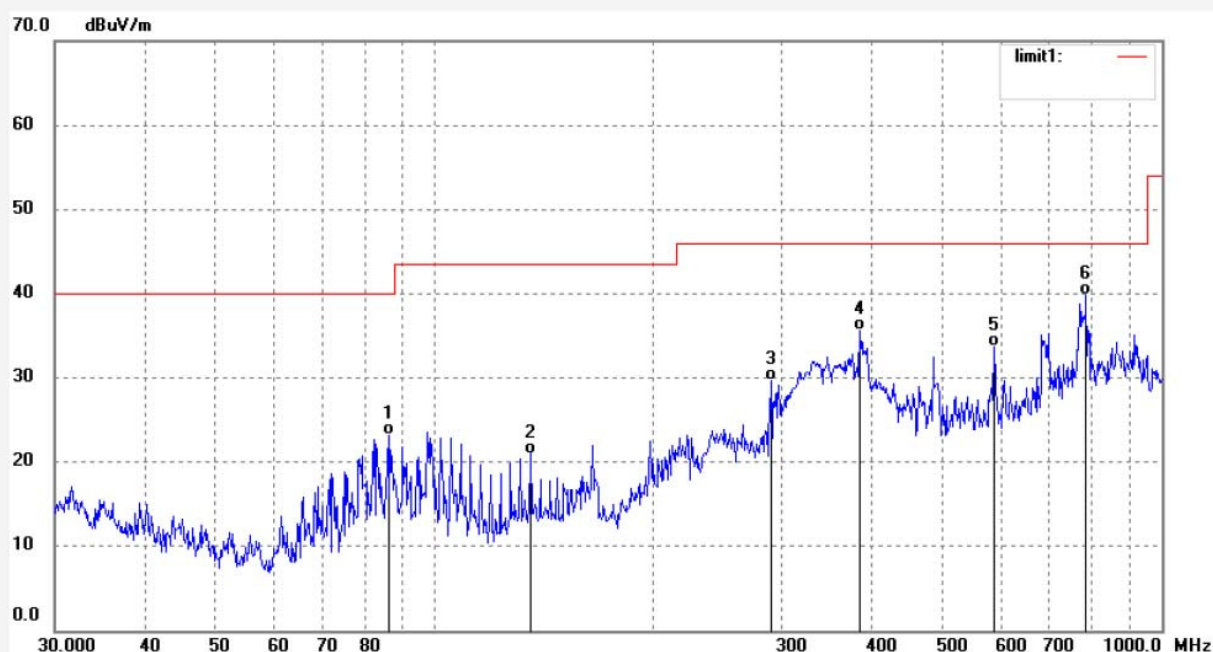
Date: 17/04/18/

Time: 12/50/58

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 86.3825     | 45.15            | -21.95      | 23.20           | 40.00          | -16.80      | QP       |             |               |        |
| 2   | 135.4395    | 43.24            | -22.24      | 21.00           | 43.50          | -22.50      | QP       |             |               |        |
| 3   | 290.3170    | 45.79            | -16.15      | 29.64           | 46.00          | -16.36      | QP       |             |               |        |
| 4   | 384.5446    | 48.74            | -13.21      | 35.53           | 46.00          | -10.47      | QP       |             |               |        |
| 5   | 588.2804    | 42.42            | -8.69       | 33.73           | 46.00          | -12.27      | QP       |             |               |        |
| 6   | 787.4749    | 44.29            | -4.40       | 39.89           | 46.00          | -6.11       | QP       |             |               |        |

Job No.: DING #3481

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Smart Bracelet

Mode: TX 2480MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Horizontal

Power Source: DC 3.7V

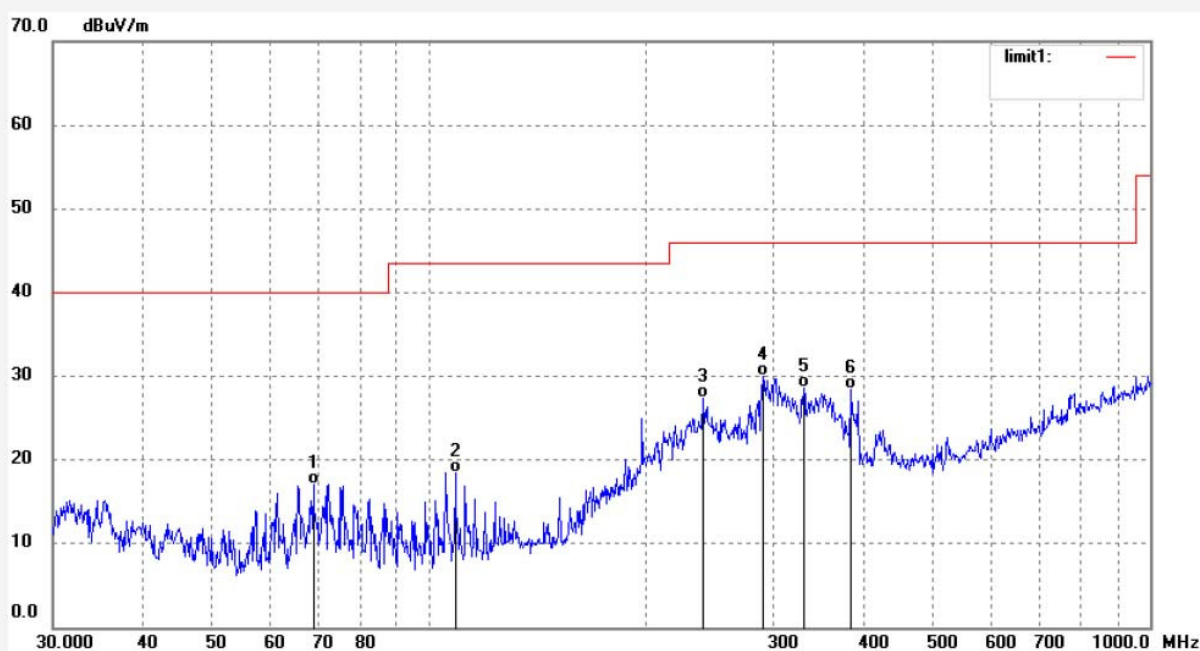
Date: 17/04/18/

Time: 12/51/48

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 68.9869     | 39.12            | -22.04      | 17.08           | 40.00          | -22.92      | QP       |             |               |        |
| 2   | 108.5455    | 40.59            | -22.07      | 18.52           | 43.50          | -24.98      | QP       |             |               |        |
| 3   | 239.3020    | 45.52            | -18.18      | 27.34           | 46.00          | -18.66      | QP       |             |               |        |
| 4   | 290.3170    | 46.20            | -16.15      | 30.05           | 46.00          | -15.95      | QP       |             |               |        |
| 5   | 330.6220    | 43.16            | -14.63      | 28.53           | 46.00          | -17.47      | QP       |             |               |        |
| 6   | 384.5447    | 41.72            | -13.21      | 28.51           | 46.00          | -17.49      | QP       |             |               |        |





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Job No.: ding1 #1355

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Intelligent Bracelet

Mode: TX 2402MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Horizontal

Power Source: DC 5V

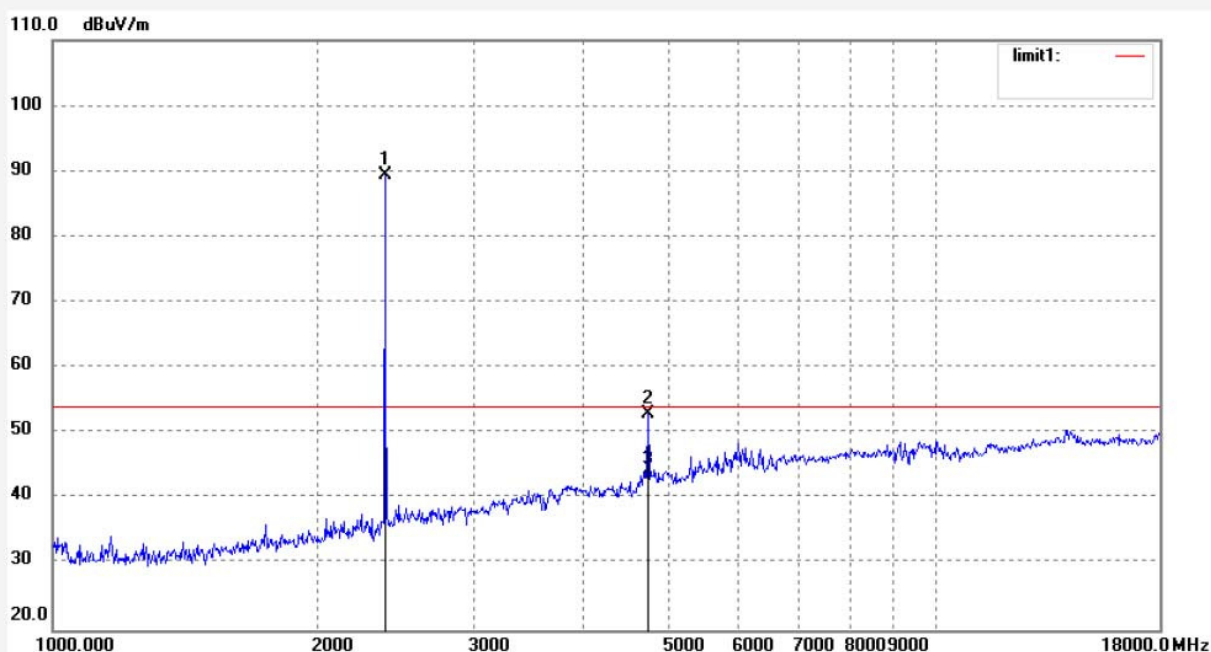
Date: 17/04/18/

Time: 8/51/06

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2402.000    | 95.35            | -5.98       | 89.37           | 114.00         | -24.63      | peak     |             |               |        |
| 2   | 4804.000    | 49.91            | 3.15        | 53.06           | 74.00          | -20.94      | peak     |             |               |        |
| 3   | 4804.000    | 39.64            | 3.15        | 42.79           | 54.00          | -11.21      | AVG      |             |               |        |

Job No.: ding1 #1356

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Intelligent Bracelet

Mode: TX 2402MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Vertical

Power Source: DC 5V

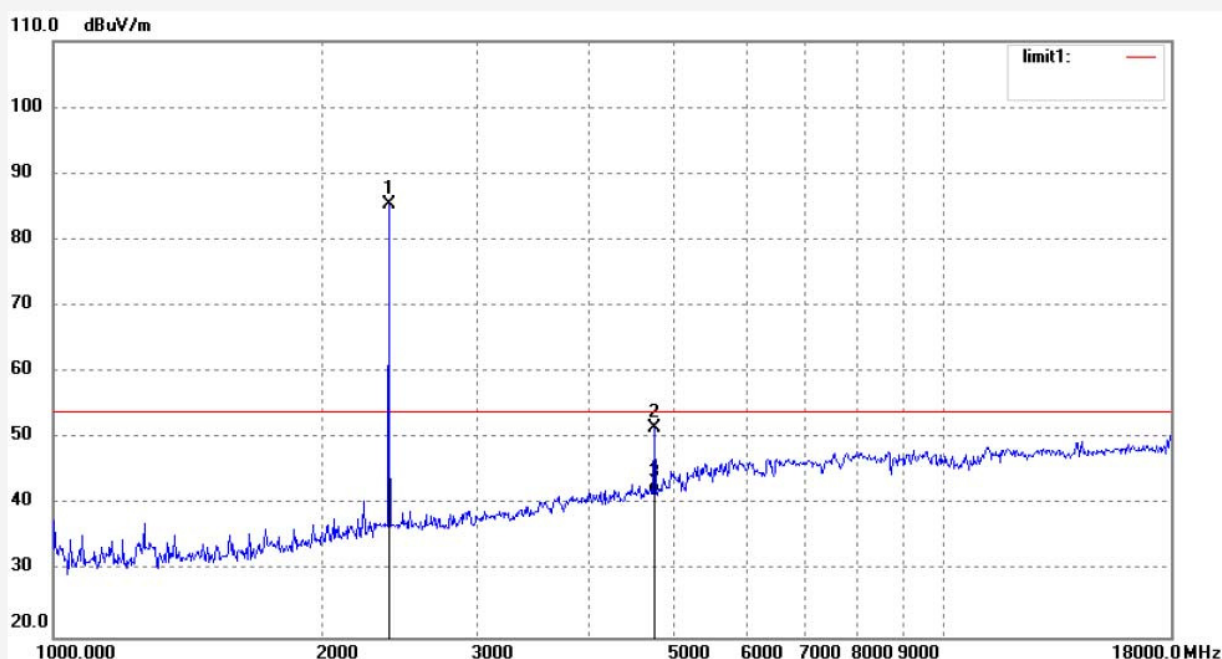
Date: 17/04/18/

Time: 8/54/29

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 2402.000       | 91.44               | -5.98          | 85.46              | 114.00            | -28.64         | peak     |                |                  |        |
| 2   | 4804.000       | 48.42               | 3.15           | 51.57              | 74.00             | -22.43         | peak     |                |                  |        |
| 3   | 4804.000       | 38.49               | 3.15           | 41.64              | 54.00             | -12.36         | AVG      |                |                  |        |



Job No.: ding1 #1357

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Intelligent Bracelet

Mode: TX 2440MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Vertical

Power Source: DC 5V

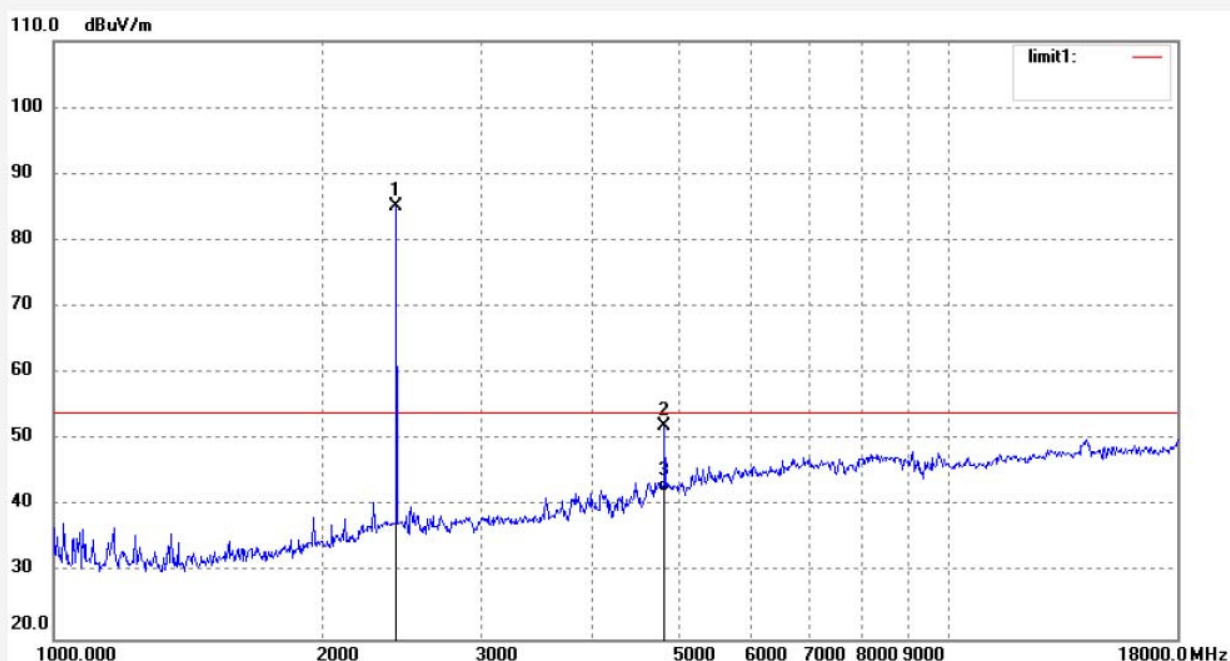
Date: 17/04/18/

Time: 8/57/32

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2440.000    | 90.84            | -5.72       | 85.12           | 114.00         | -28.88      | peak     |             |               |        |
| 2   | 4880.000    | 48.46            | 3.67        | 52.13           | 74.00          | -21.87      | peak     |             |               |        |
| 3   | 4880.000    | 38.54            | 3.67        | 42.21           | 54.00          | -11.79      | AVG      |             |               |        |



## ACCURATE TECHNOLOGY CO., LTD.

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Fax:+86-0755-26503396

Job No.: ding1 #1358

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Intelligent Bracelet

Mode: TX 2440MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Horizontal

Power Source: DC 5V

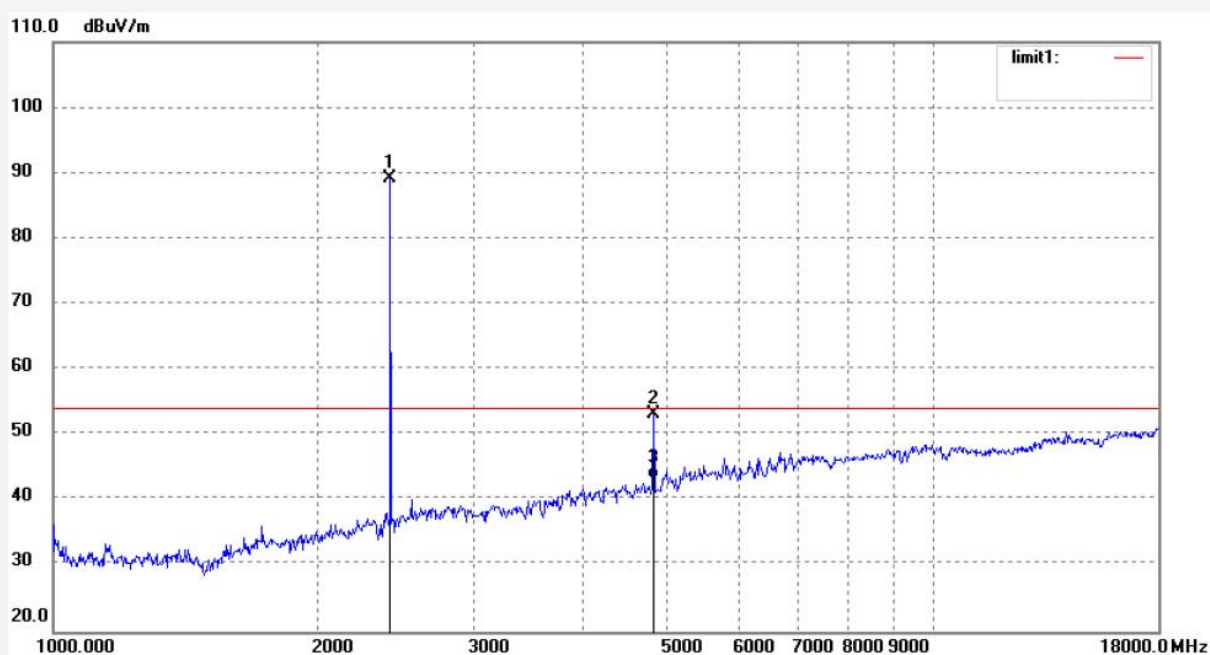
Date: 17/04/18/

Time: 9/00/30

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 2440.000       | 94.90               | -5.72          | 89.18              | 114.00            | -24.82         | peak     |                |                  |        |
| 2   | 4880.000       | 49.63               | 3.53           | 53.16              | 74.00             | -20.84         | peak     |                |                  |        |
| 3   | 4880.000       | 39.74               | 3.53           | 43.27              | 54.00             | -10.73         | AVG      |                |                  |        |

Job No.: ding1 #1359

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Intelligent Bracelet

Mode: TX 2480MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Horizontal

Power Source: DC 5V

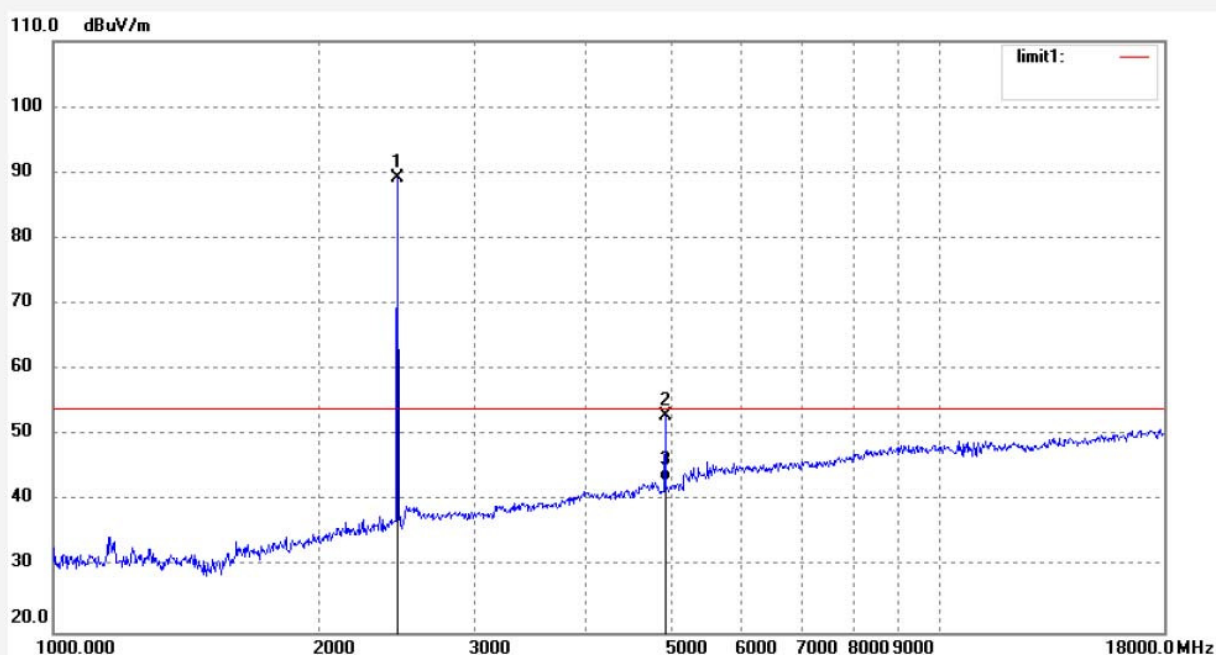
Date: 17/04/18/

Time: 9/03/40

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 2480.000       | 94.72               | -5.55          | 89.17              | 114.00            | -24.83         | peak     |                |                  |        |
| 2   | 4960.000       | 48.52               | 4.54           | 53.06              | 74.00             | -20.94         | peak     |                |                  |        |
| 3   | 4960.000       | 38.49               | 4.54           | 43.03              | 54.00             | -10.97         | AVG      |                |                  |        |





## ACCURATE TECHNOLOGY CO., LTD.

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Fax:+86-0755-26503396

Job No.: ding1 #1360

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Intelligent Bracelet

Mode: TX 2480MHz

Model: F8

Manufacturer: FIRST COATING

Polarization: Vertical

Power Source: DC 5V

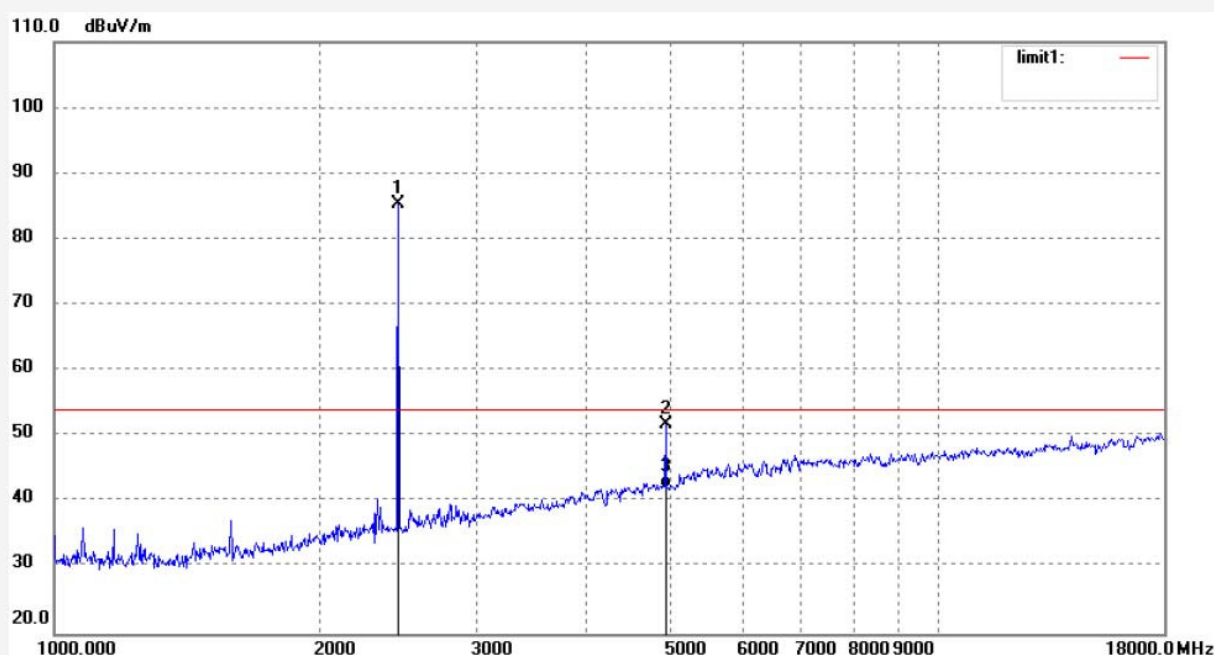
Date: 17/04/18/

Time: 9/07/43

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20170457



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2480.000    | 90.95            | -5.55       | 85.40           | 114.00         | -28.60      | peak     |             |               |        |
| 2   | 4960.000    | 47.32            | 4.54        | 51.86           | 74.00          | -22.14      | peak     |             |               |        |
| 3   | 4960.000    | 37.56            | 4.54        | 42.10           | 54.00          | -11.90      | AVG      |             |               |        |

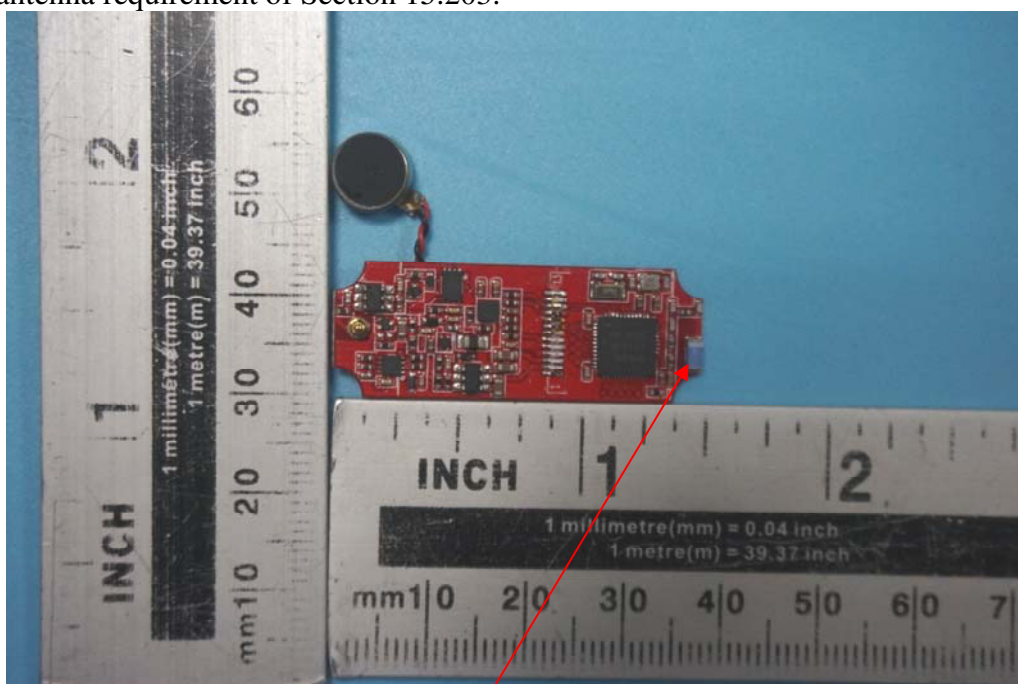
## 11.ANTENNA REQUIREMENT

### 11.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 11.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0 dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



**Antenna**