

# FCC Test Report

Report No.: AGC03890180902FE02A

**FCC ID** : 2AFW3-UR02  
**APPLICATION PURPOSE** : Class II Equipment  
**PRODUCT DESIGNATION** : UPRIGHT GO 2  
**BRAND NAME** : UPRIGHT  
**MODEL NAME** : UR-02A-02B  
**APPLICANT** : UPRIGHT TECHNOLOGIES LTD  
**DATE OF ISSUE** : Aug. 08, 2019  
**STANDARD(S)** : FCC Part 15.247  
**TEST PROCEDURE(S)** :  
**REPORT VERSION** : V1.0

## Attestation of Global Compliance (Shenzhen) Co., Ltd

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 08, 2019	Valid	Initial Release

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## TABLE OF CONTENTS

<b>1. VERIFICATION OF CONFORMITY .....</b>	<b>4</b>
<b>2. GENERAL INFORMATION .....</b>	<b>5</b>
2.1. PRODUCT DESCRIPTION .....	5
2.2. TABLE OF CARRIER FREQUENCIES .....	5
2.3. RELATED SUBMITTAL(S)/GRANT(S) .....	5
2.4. TEST METHODOLOGY .....	5
2.5. EQUIPMENT MODIFICATIONS .....	5
<b>3. MEASUREMENT UNCERTAINTY .....</b>	<b>6</b>
<b>4. DESCRIPTION OF TEST MODES .....</b>	<b>7</b>
<b>5. SYSTEM TEST CONFIGURATION .....</b>	<b>8</b>
5.1. CONFIGURATION OF EUT SYSTEM .....	8
5.2. EQUIPMENT USED IN EUT SYSTEM .....	8
5.3. SUMMARY OF TEST RESULTS .....	8
<b>6. TEST FACILITY .....</b>	<b>9</b>
<b>7. PEAK OUTPUT POWER .....</b>	<b>10</b>
7.1. MEASUREMENT PROCEDURE .....	10
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	10
7.3. LIMITS AND MEASUREMENT RESULT .....	11
<b>8. RADIATED EMISSION .....</b>	<b>13</b>
8.1. MEASUREMENT PROCEDURE .....	13
8.2. TEST SETUP .....	14
8.3. LIMITS AND MEASUREMENT RESULT .....	15
8.4. TEST RESULT .....	15
<b>APPENDIX A: PHOTOGRAPHS OF TEST SETUP .....</b>	<b>25</b>
<b>APPENDIX B: PHOTOGRAPHS OF EUT .....</b>	<b>26</b>

**1. VERIFICATION OF CONFORMITY**

<b>Applicant</b>	UPRIGHT TECHNOLOGIES LTD
<b>Address</b>	Sha'ar ha-Ir, 3rd Floor Derech HaAtsma'ut 56 st, Yehud, Israel, 5630425
<b>Manufacturer</b>	UPRIGHT TECHNOLOGIES LTD
<b>Address</b>	Sha'ar ha-Ir, 3rd Floor Derech HaAtsma'ut 56 st, Yehud, Israel, 5630425
<b>Factory</b>	Shenzhen Sunwoda Intelligent Hardware Co., LTD
<b>Address</b>	NO.6-6 ,101, Yanshan Rd, YanchuanCommunity, YanluoStreet, BaoanDistrict, ShenzhenCity, China
<b>Product Designation</b>	UPRIGHT GO 2
<b>Brand Name</b>	UPRIGHT
<b>Test Model</b>	UR-02A-02B
<b>Date of test</b>	Jul. 24, 2019 to Aug. 07, 2019
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By

Draven Li  
(Project Engineer)

Aug. 07, 2019

Reviewed By

Max Zhang  
(Reviewer)

Aug. 08, 2019

Approved By

Forrest Lei  
(Authorized Officer)

Aug. 08, 2019



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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a “ac1x1+BT module”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	-0.520dBm(Max)
<b>Bluetooth Version</b>	V 4.2
<b>Modulation</b>	BR <input type="checkbox"/> GFSK, EDR <input type="checkbox"/> $\pi/4$ -DQPSK, <input type="checkbox"/> 8DPSK BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps
<b>Number of channels</b>	40 Channel
<b>Antenna Designation</b>	PCB Antenna(Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	0.9dBi
<b>Hardware Version</b>	A08
<b>Software Version</b>	R201
<b>Power Supply</b>	DC 3.7V by battery

### 2.2. TABLE OF CARRIER FREQUENCIES

<b>Frequency Band</b>	<b>Channel Number</b>	<b>Frequency</b>
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ

### 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AFW3-UR02** filing to comply with the FCC Part 15.247 requirements.

### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 2.5. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

### 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8 \text{ dB}$
- Uncertainty of total RF power, conducted,  $U_c = \pm 0.8 \text{ dB}$



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**4. DESCRIPTION OF TEST MODES**

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacturer.
4. The test software is the nRFgo Studio\_V1.15.1.2691 which can set the EUT into the individual test modes.

## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	UPRIGHT GO 2	UR-02A-02B	2AFW3-UR02	EUT

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak power	Compliant
§15.247&15.209	Radiated Emission	Compliant

Note:

The difference between the original device and Class II device is as follow:

The antenna matching circuit had been changed.

So the Peak Power and Radiated Emission had been tested for the Class II device.



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**6. TEST FACILITY**

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

**TEST EQUIPMENT OF RADIATED EMISSION TEST**

<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>S/N</b>	<b>Cal. Date</b>	<b>Cal. Due</b>
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 28, 2018	Aug. 27, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

## 7. PEAK OUTPUT POWER

### 7.1. MEASUREMENT PROCEDURE

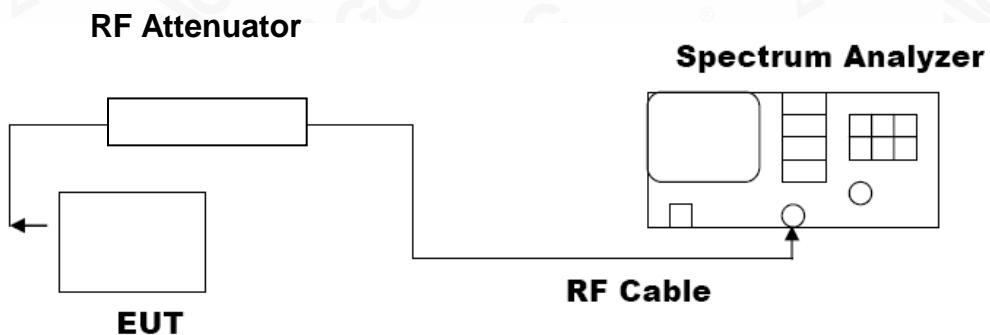
For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2.  $RBW \geq DTS$  bandwidth
3.  $VBW \geq 3 \times RBW$ .
4.  $SPAN \geq VBW$ .
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

#### PEAK POWER TEST SETUP



### 7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-0.610	30	Pass
2.440	-0.520	30	Pass
2.480	-0.740	30	Pass

CH0



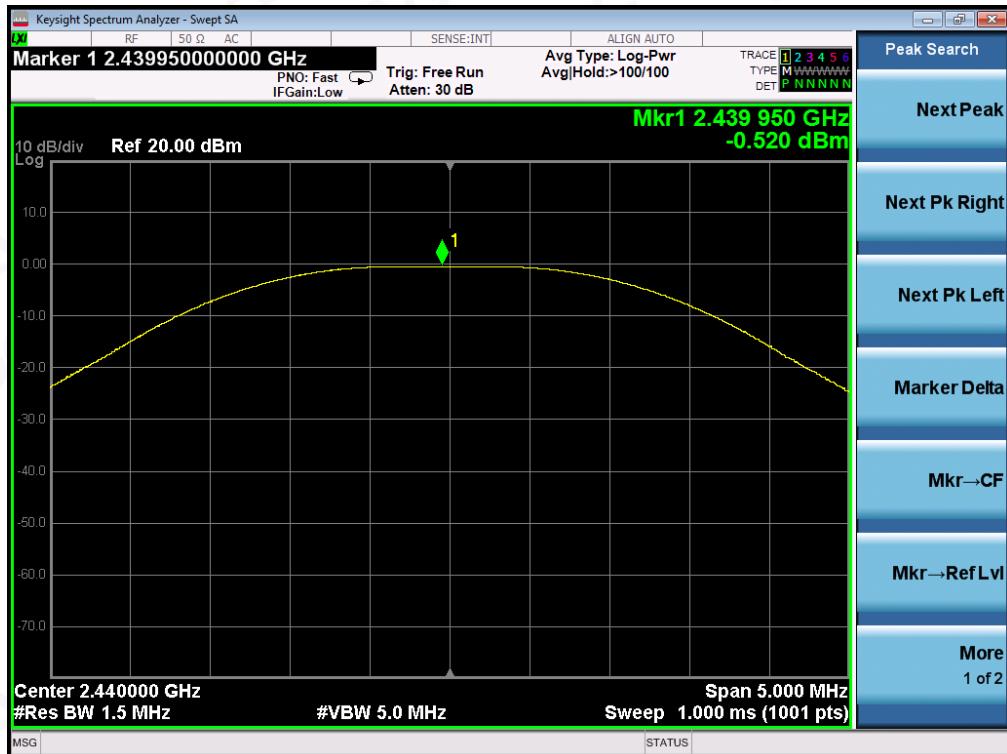
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## CH19



## CH39



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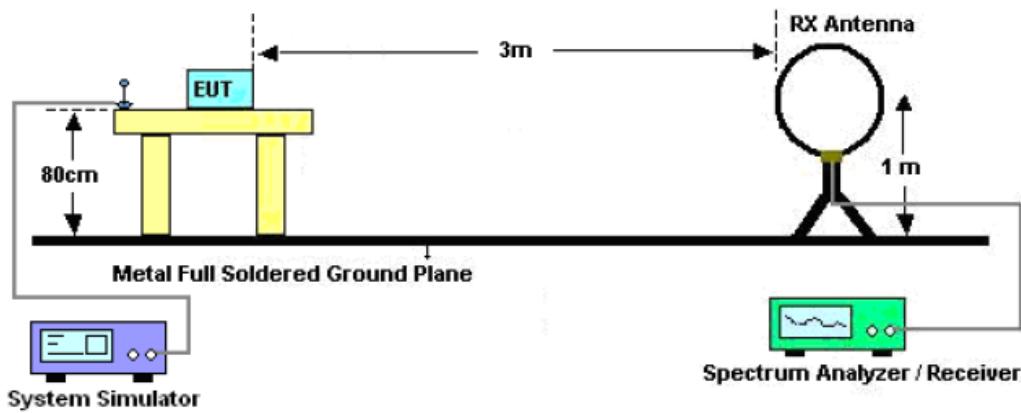
## 8. RADIATED EMISSION

### 8.1. MEASUREMENT PROCEDURE

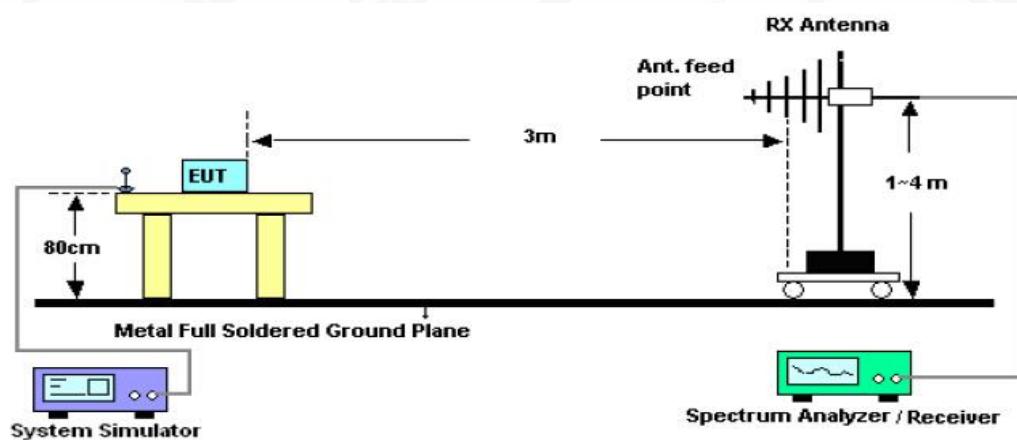
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

## 8.2. TEST SETUP

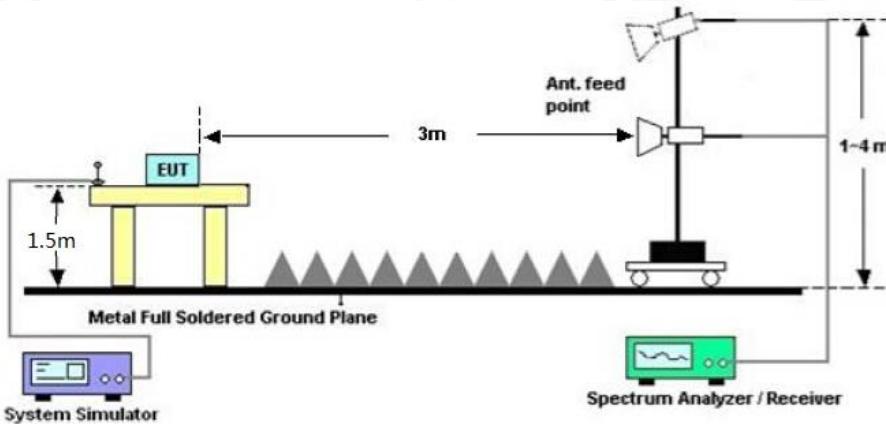
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### 8.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,  
the test records reported below are the worst result compared to other modes.

### 8.4. TEST RESULT

#### RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

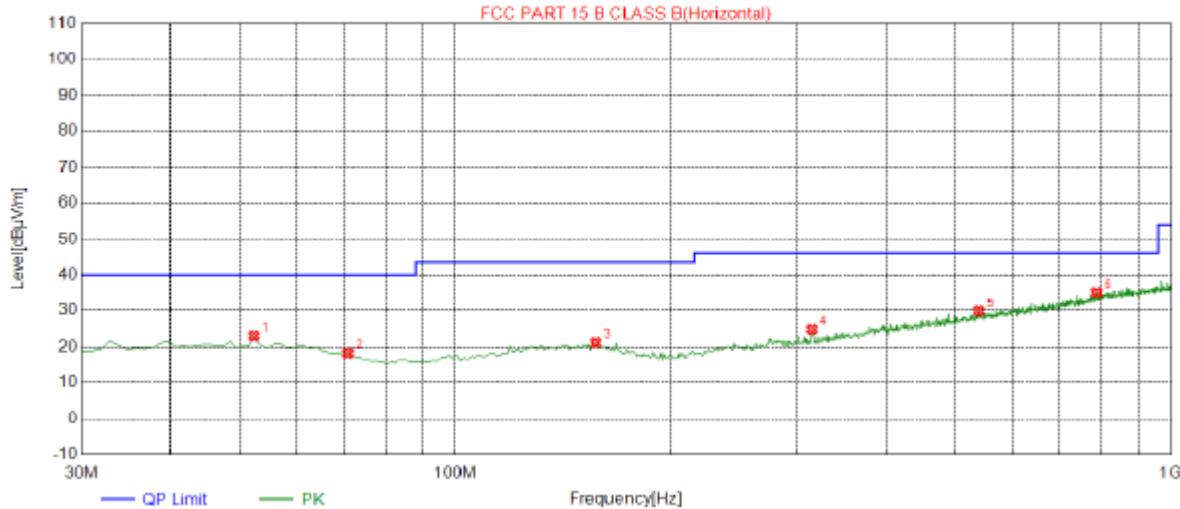


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**RADIATED EMISSION BELOW 1GHZ**

<b>EUT</b>	UPRIGHT GO 2	<b>Model Name</b>	UR-02A-02B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Horizontal



NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	23.04	14.49	40.00	16.96	100	227	Horizontal
2	70.7400	18.22	12.07	40.00	21.78	100	94	Horizontal
3	157.070	21.18	14.93	43.50	22.32	100	271	Horizontal
4	315.180	24.81	16.48	46.00	21.19	150	40	Horizontal
5	539.250	29.94	23.03	46.00	16.06	100	348	Horizontal
6	787.570	35.16	28.17	46.00	10.84	100	321	Horizontal

**RESULT: PASS**

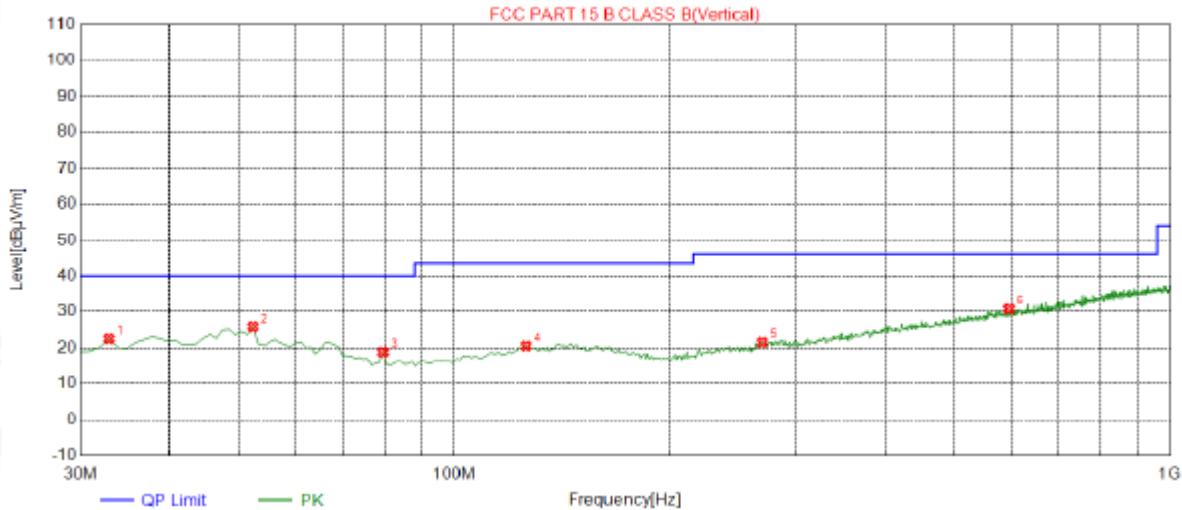

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<b>EUT</b>	UPRIGHT GO 2	<b>Model Name</b>	UR-02A-02B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Vertical



NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.9100	22.53	13.36	40.00	17.47	100	359	Vertical
2	52.3100	25.82	14.49	40.00	14.18	100	176	Vertical
3	79.4700	18.82	10.26	40.00	21.18	100	20	Vertical
4	126.030	20.53	13.88	43.50	22.97	100	132	Vertical
5	269.590	21.57	15.38	46.00	24.43	150	358	Vertical
6	596.480	30.78	24.26	46.00	15.22	100	347	Vertical

## RESULT: PASS

### Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been tested. The mode 1 is the worst case and recorded in the report.



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**RADIATED EMISSION ABOVE 1GHZ**

<b>EUT</b>	UPRIGHT GO 2	<b>Model Name</b>	UR-02A-02B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4804.042	51.32	0.08	51.40	74.00	-22.60	peak
4804.042	48.64	0.08	48.72	54.00	-5.28	Avg
7206.063	43.30	2.21	45.51	74.00	-28.49	peak
7206.063	39.01	2.21	41.22	54.00	-12.78	Avg

**Remark:**

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	UPRIGHT GO 2	<b>Model Name</b>	UR-02A-02B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4804.042	53.36	0.08	53.44	74.00	-20.56	peak
4804.042	46.92	0.08	47.00	54.00	-7.00	Avg
7206.063	44.37	2.21	46.58	74.00	-27.42	peak
7206.063	41.79	2.21	44.00	54.00	-10.00	Avg

**Remark:**

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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<b>EUT</b>	UPRIGHT GO 2	<b>Model Name</b>	UR-02A-02B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Value Type
4880.042	50.62	0.14	50.76	74.00	-23.24	peak
4880.042	46.67	0.14	46.81	54.00	-7.19	Avg
7320.063	46.68	2.36	49.04	74.00	-24.96	peak
7320.063	43.09	2.36	45.45	54.00	-8.55	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	UPRIGHT GO 2	<b>Model Name</b>	UR-02A-02B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Value Type
4880.042	51.60	0.14	51.74	74.00	-22.26	peak
4880.042	48.50	0.14	48.64	54.00	-5.36	Avg
7320.063	46.64	2.36	49.00	74.00	-25.00	peak
7320.063	42.97	2.36	45.33	54.00	-8.67	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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<b>EUT</b>	UPRIGHT GO 2	<b>Model Name</b>	UR-02A-02B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Value Type
4960.042	50.19	0.22	50.41	74.00	-23.59	peak
4960.042	47.39	0.22	47.61	54.00	-6.39	Avg
7440.063	45.97	2.64	48.61	74.00	-25.39	peak
7440.063	42.40	2.64	45.04	54.00	-8.96	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	UPRIGHT GO 2	<b>Model Name</b>	UR-02A-02B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Value Type
4960.042	51.33	0.22	51.55	74.00	-22.45	peak
4960.042	47.72	0.22	47.94	54.00	-6.06	Avg
7440.063	45.97	2.64	48.61	74.00	-25.39	peak
7440.063	42.68	2.64	45.32	54.00	-8.68	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## RESULT: PASS

### Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



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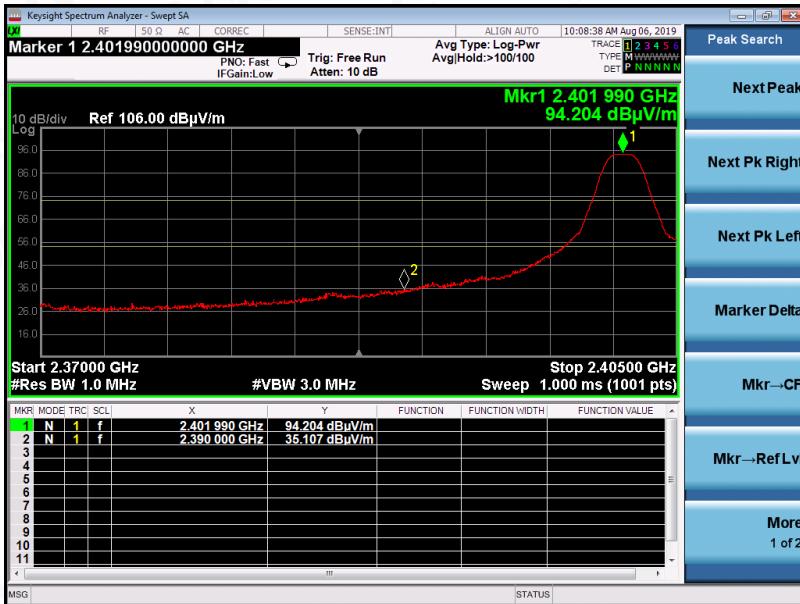
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## TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

<b>EUT</b>	Bluetooth FM Transmitter	<b>Model Name</b>	BH163B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Horizontal

PK



AV



RESULT: PASS



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<b>EUT</b>	Bluetooth FM Transmitter	<b>Model Name</b>	BH163B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Vertical

**PK**

**AV**

**RESULT: PASS**


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<b>EUT</b>	Bluetooth FM Transmitter	<b>Model Name</b>	BH163B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

PK



AV


**RESULT: PASS**


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<b>EUT</b>	Bluetooth FM Transmitter	<b>Model Name</b>	BH163B
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Vertical

**PK**

**AV**


### RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F. All test modes had been pre-tested. The GFSK modulation is the worst case and recorded in the report.



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**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
**FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ****FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ****Attestation of Global Compliance**

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**APPENDIX B: PHOTOGRAPHS OF EUT**  
**ALL VIEW OF EUT****Attestation of Global Compliance**

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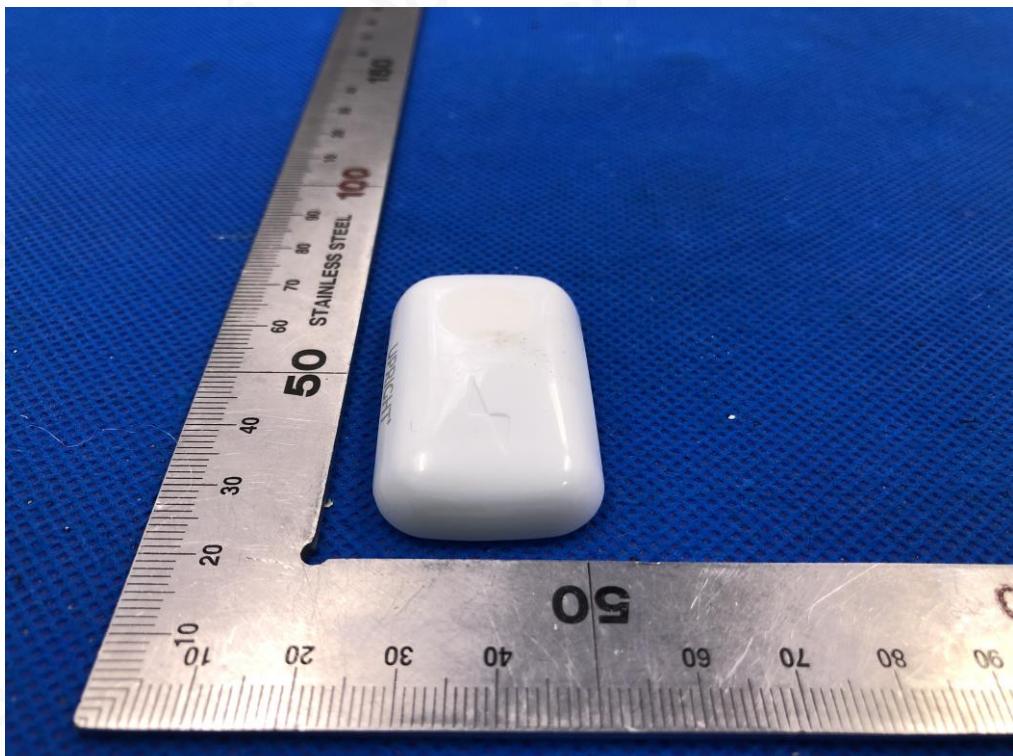
TOP VIEW OF EUT



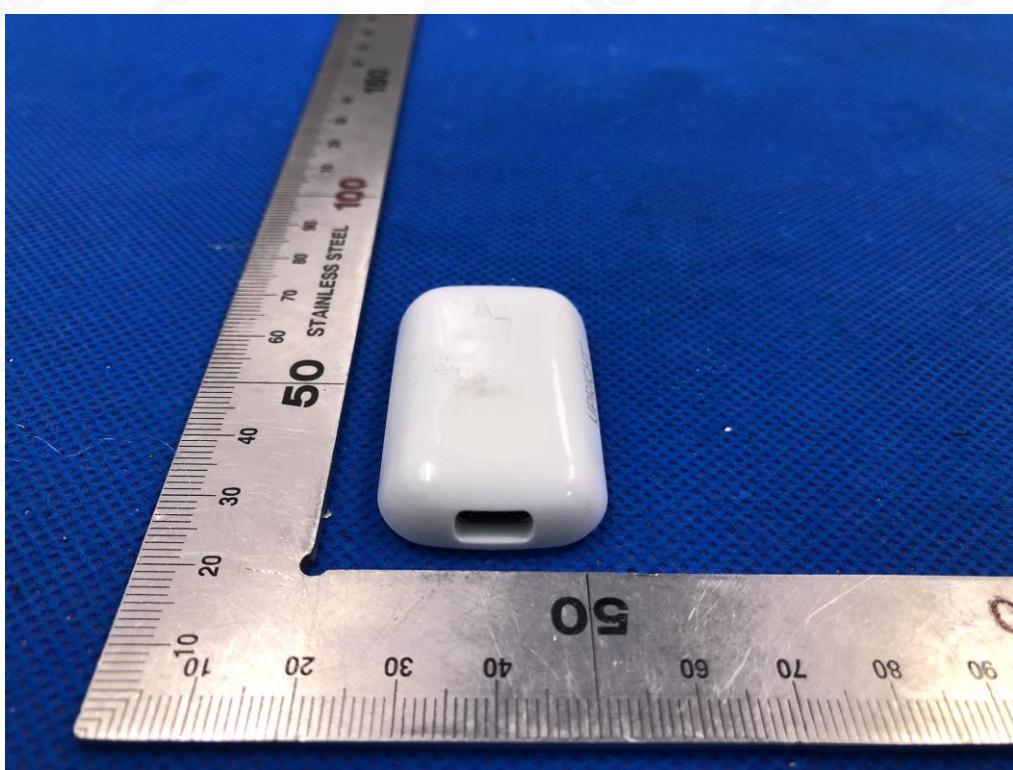
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



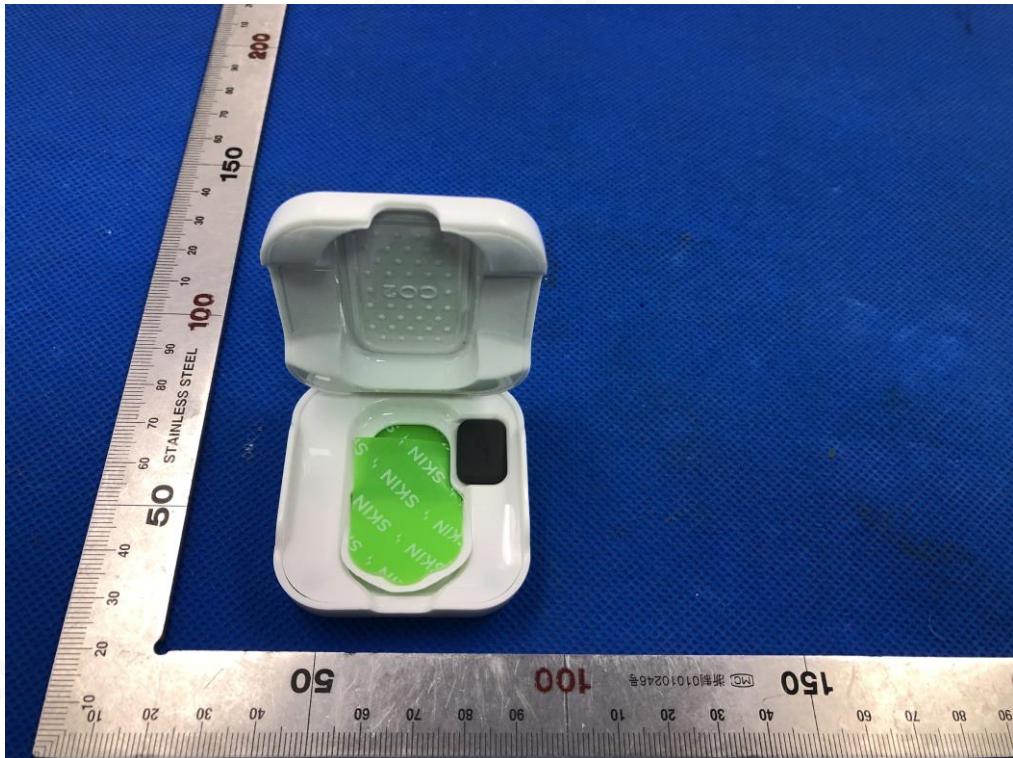
LEFT VIEW OF EUT



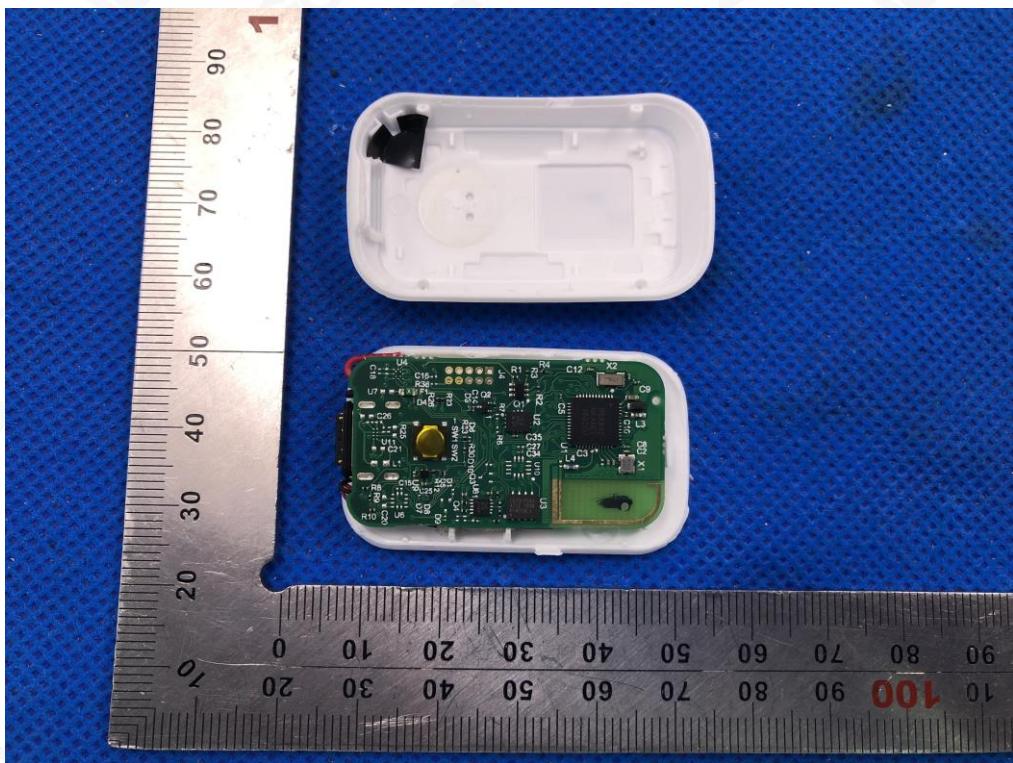
RIGHT VIEW OF EUT



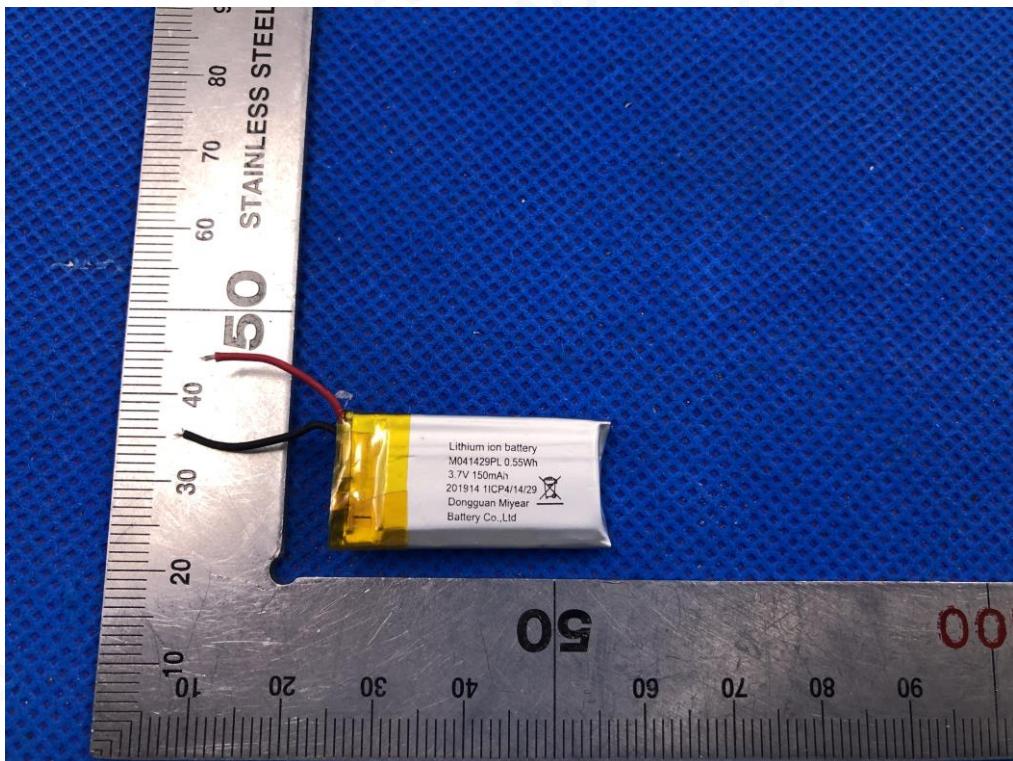
## OPEN VIEW-1 OF EUT



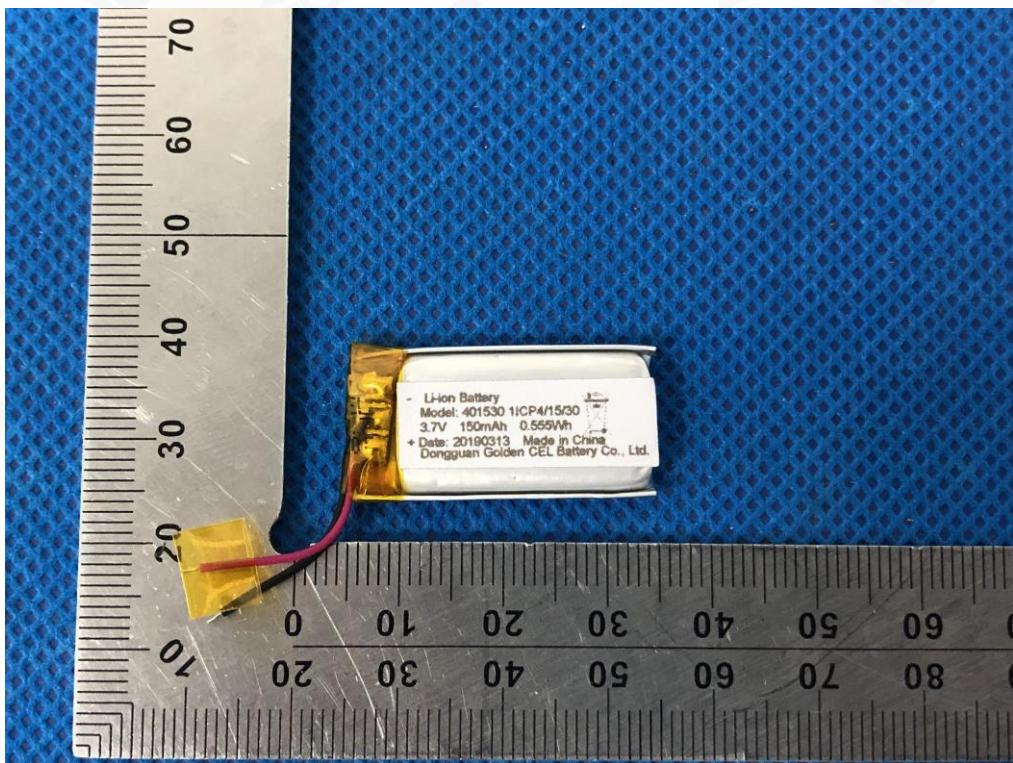
## OPEN VIEW-2 OF EUT



## VIEW OF BATTERY-1



## VIEW OF BATTERY-2



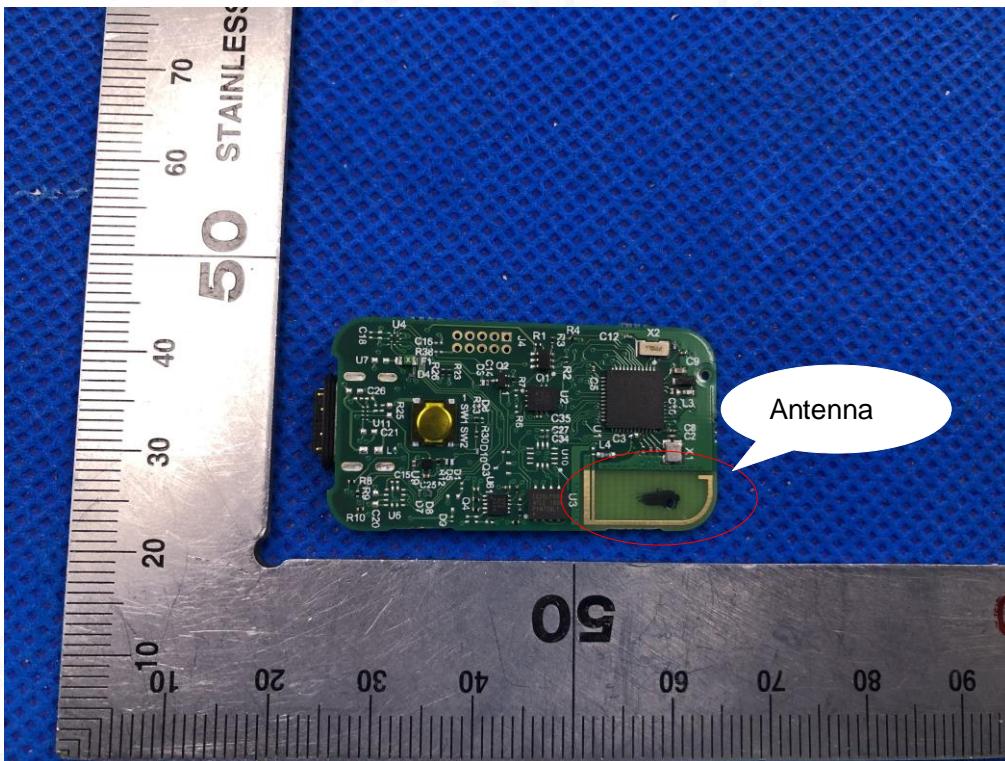
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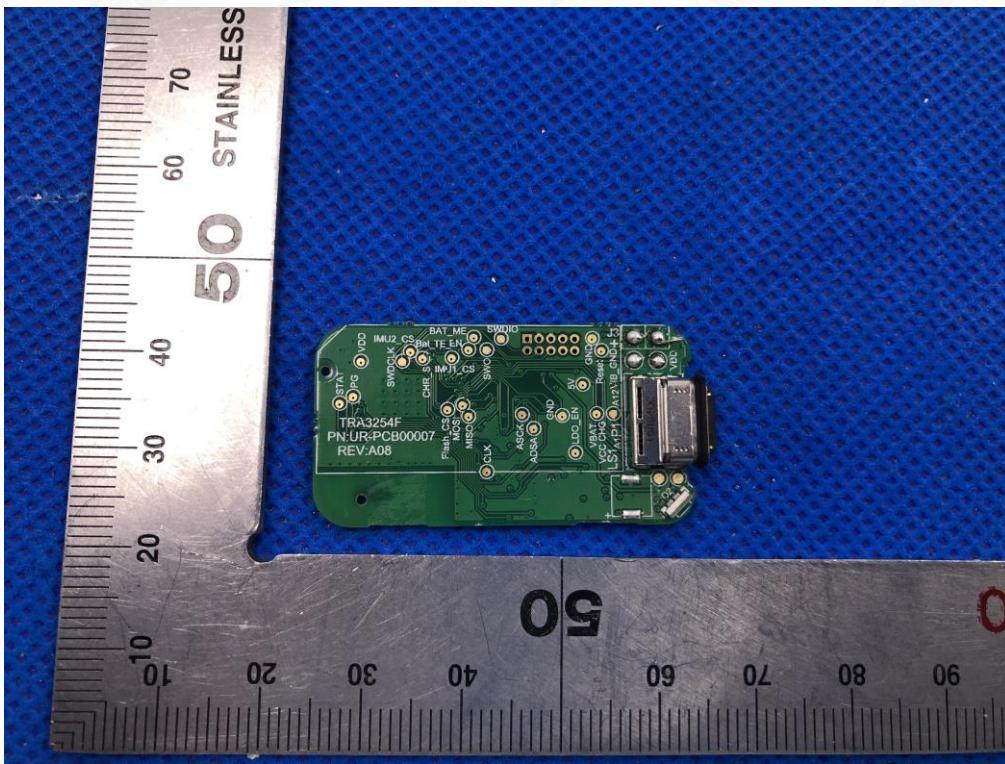
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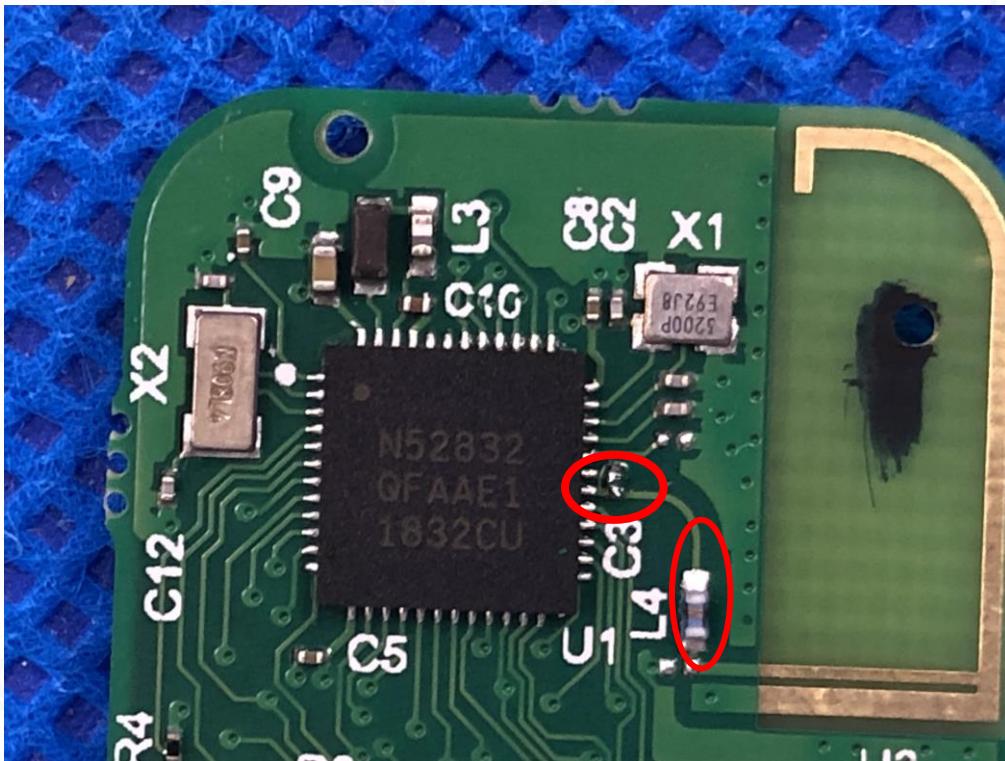
## INTERNAL VIEW-1 OF EUT



## INTERNAL VIEW-2 OF EUT



## INTERNAL VIEW-3 OF EUT



## Note:

1. C3: changed to 0.8pF was not assembled.
2. L4: changed from 0 Ohm resistor to 3.9nH inductor.

----END OF REPORT----



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