



# **FCC TEST REPORT**

## **FCC PART 15 SUBPART C 15.231**

**Test report**  
**On Behalf of**  
**MPOW TECHNOLOGY CO. LIMITED**  
**For**  
**Vibrating Alarm Clock**

**Model No.: YGH314C**

**FCC ID: 2AMH2-HM347A**

**Prepared for :** **MPOW TECHNOLOGY CO. LIMITED**  
**RM 603, 6/F HANG PONT COMM BLDG 31 TONKIN ST CHEUNG SHA WAN KL**

**Prepared By :** **Shenzhen HUAKE Testing Technology Co., Ltd.**  
**1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping**  
**Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**

**Date of Test:** **Nov. 30, 2018 ~ Dec. 07, 2018**

**Date of Report:** **Dec. 07, 2018**

**Report Number:** **HK1812101832E**



### TEST RESULT CERTIFICATION

**Applicant's name** ..... MPOW TECHNOLOGY CO. LIMITED  
 Address ..... RM 603, 6/F HANG PONT COMM BLDG 31 TONKIN ST CHEUNG SHA WAN KL  
**Manufacture's Name** ..... Shenzhen YuanGuangHao Electronics Co., Ltd  
 Address ..... No.7, LianYi Street, TangKeng Road, HengGang Town, Shenzhen, P. R. China.

**Product description**

Trade Mark: N/A  
 Product name ..... Vibrating Alarm Clock  
 Model and/or type reference ... YGH314C

**Standards** ..... FCC Rules and Regulations Part 15 Subpart C Section 15.231  
 ANSI C63.10: 2013

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**Date of Test** .....  
 Date (s) of performance of tests .....: Nov. 30, 2018 ~ Dec. 07, 2018  
 Date of Issue.....: Dec. 07, 2018  
 Test Result.....: **Pass**

Testing Engineer : Gary Qian  
 (Gary Qian)

Technical Manager : Eden Hu  
 (Eden Hu)

Authorized Signatory : Jason Zhou  
 (Jason Zhou)



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## 1. TEST SUMMARY

### 1.1 TEST PROCEDURES AND RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.231(a)(1)	Automatically operated transmitter	Compliant
§15.231(b)	Average Factor	Compliant
§15.231(e)&§15.209	Field Strength of Fundamental and Spurious Emission	Compliant
§15.231(c)	Bandwidth	Compliant
§15.207	Conducted Emission	Compliant

### 1.2 TEST FACILITY

Test Firm : Shenzhen HUAKE Testing Technology Co., Ltd.

Address : 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Designation Number: : CN1229

Test Firm Registration Number : 616276

### 1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

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

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

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



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>Operation Frequency</b>	433.95MHz
<b>Field Strength(3m)</b>	77.22dBuV/m(Average)@3m
<b>Modulation</b>	ASK
<b>Number of channels</b>	1
<b>Hardware Version</b>	314C-RX-V1.4-20180724
<b>Software Version</b>	V1.0
<b>Antenna Designation</b>	Fixed antenna
<b>Antenna Gain</b>	0dBi
<b>Power Supply</b>	DC 5V by adapter

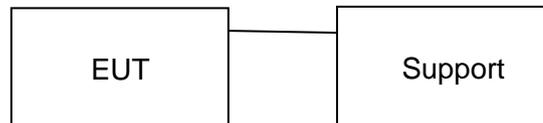


## 2.2 OPERATION OF EUT DURING TESTING

NO.	TEST MODE DESCRIPTION
1	Transmitting mode
Note: 1. Only the data of the worst case recorded in the test report. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.	

## 2.3 DESCRIPTION OF TEST SETUP

Operation of EUT during Radiation and Above1GHz Radiation testing:



Item	Equipment	Model No.	ID or Specification	Remark
1	Adapter	RHD10W050050US	DC 5V	AE



## 2.4 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 28, 2017	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2017	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 28, 2017	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2017	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Dec. 28, 2017	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2017	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2017	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Dec. 28, 2017	N/A
14.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year

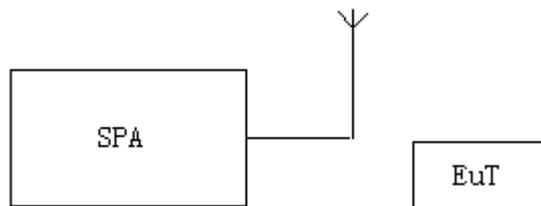


### 3. PROVISION FOR MOMENTARY OPERATION

#### 3.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:  
 Centrefrequency = Operation Frequency  
 RBW=1MHz, VBW=3MHz  
 Span: 0Hz  
 Sweep time: 1000S
2. Set the EUT to transmit by manually operated. Use the "View" function of SPA to find the transmission time of being released.
3. Record the data and Reported.

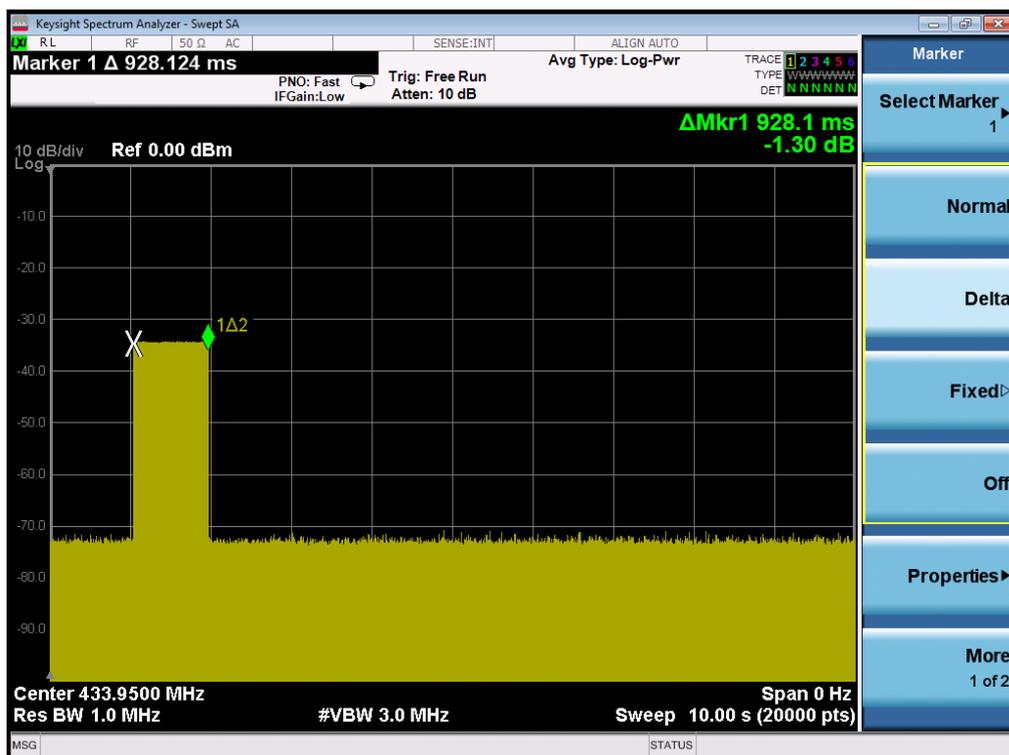
#### 3.2 TEST SETUP



#### 3.3 TEST RESULT

Test Mode: EUT @ 433MHz for RF Transmitter

The time of stopping transmission	Limit (s)
0.9281	5.00



RESULT: PASS

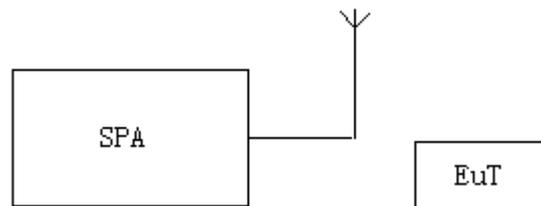


## 4. DUTY CYCLE CORRECTION FACTOR

### 4.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:  
Centrefrequency = Operation Frequency  
RBW=1MHz; VBW=3MHz  
Span: 0Hz  
Sweep time: more than two pulse trains or more than each type of pulse occupancy time
2. Set the EUT to transmit by manually operated. Use the “Delta mark” function of SPA to find the period time between two pulse trains and each type of pulse occupancy time.
3. Record the plots and Reported.

### 4.2 TEST SETUP

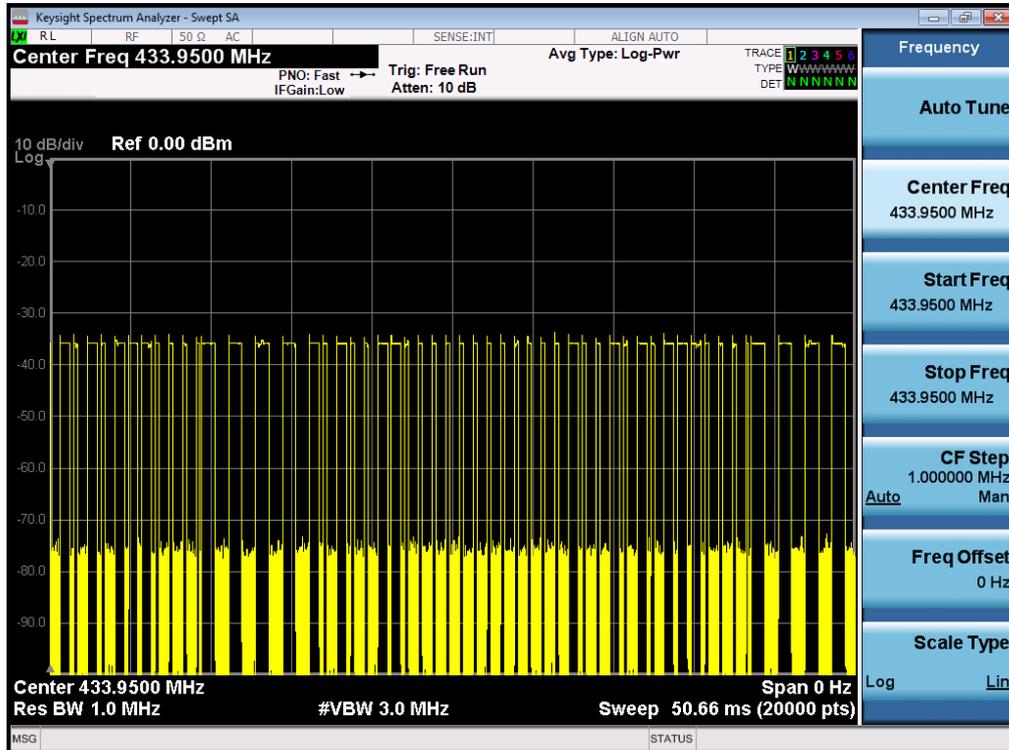
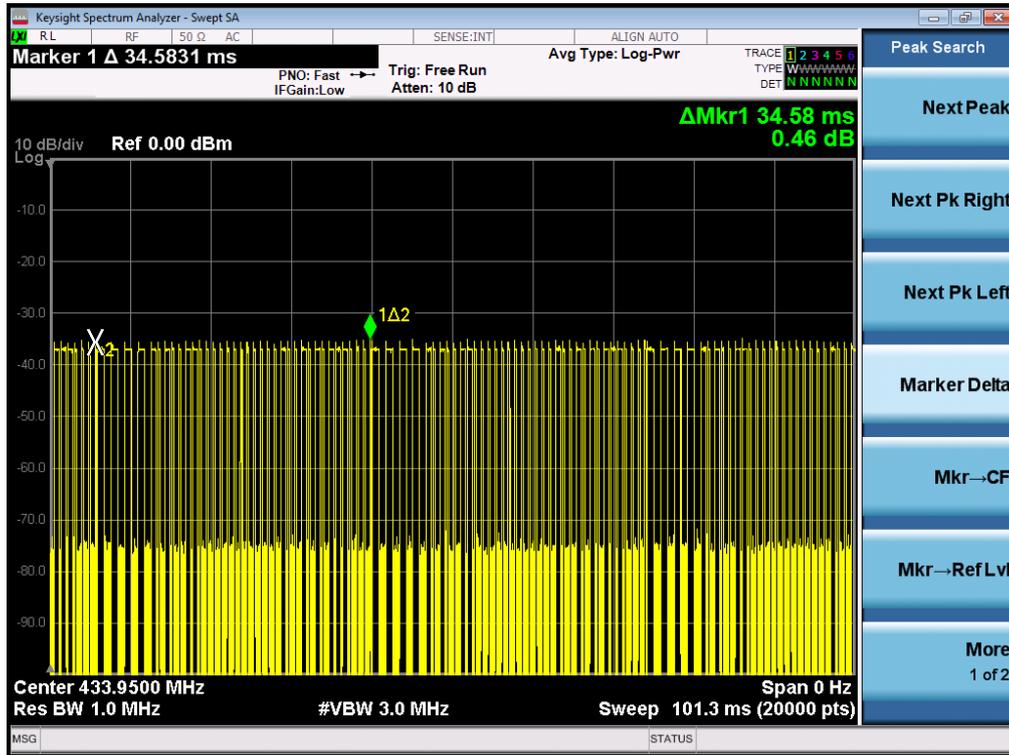


### 4.3 TEST RESULT



Test Mode: EUT @ 433MHz for RF Transmitter

Duty Cycle:	$(0.848*4+0.6105*10+0.24322+0.163*1)/34.58\text{ms}=0.4340$
Duty Cycle Correction Factor:	$20\lg(0.434)=-7.25\text{dB}$







## 5. RADIATED EMISSION

### 5.1. 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 VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. 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.



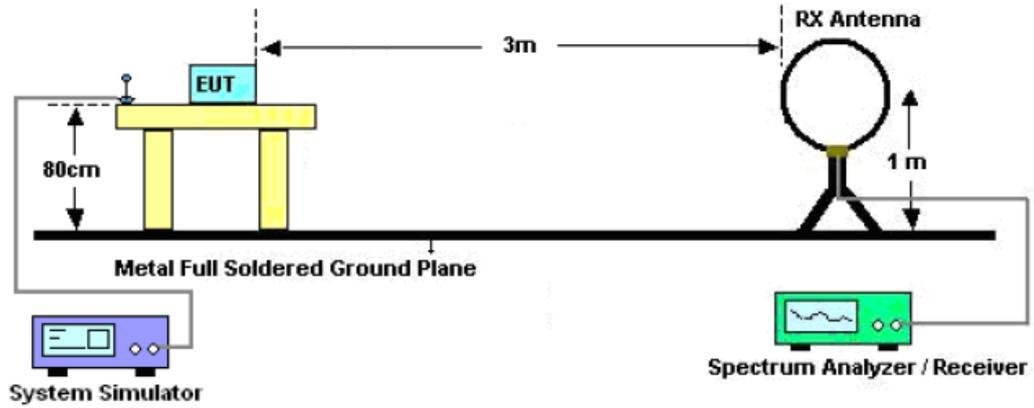
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

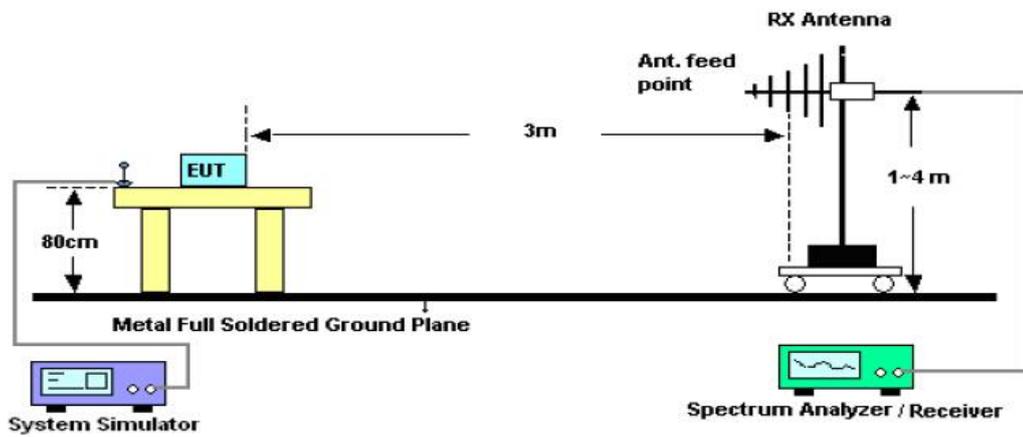
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP

### 5.2. TEST SETUP

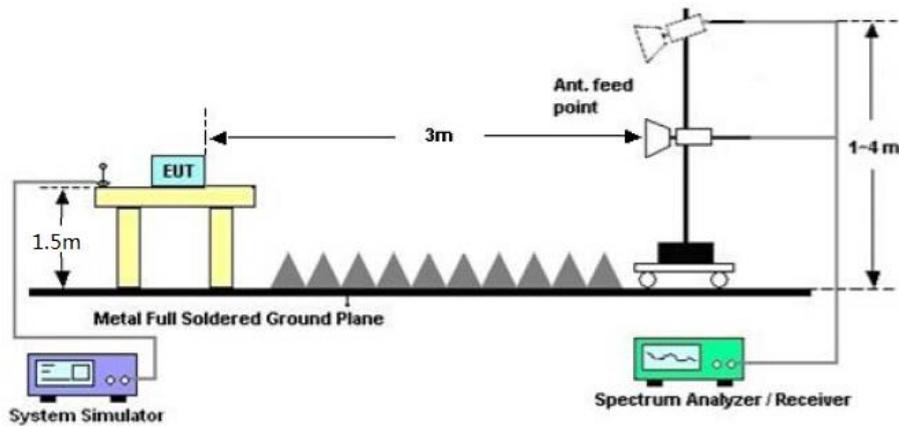
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



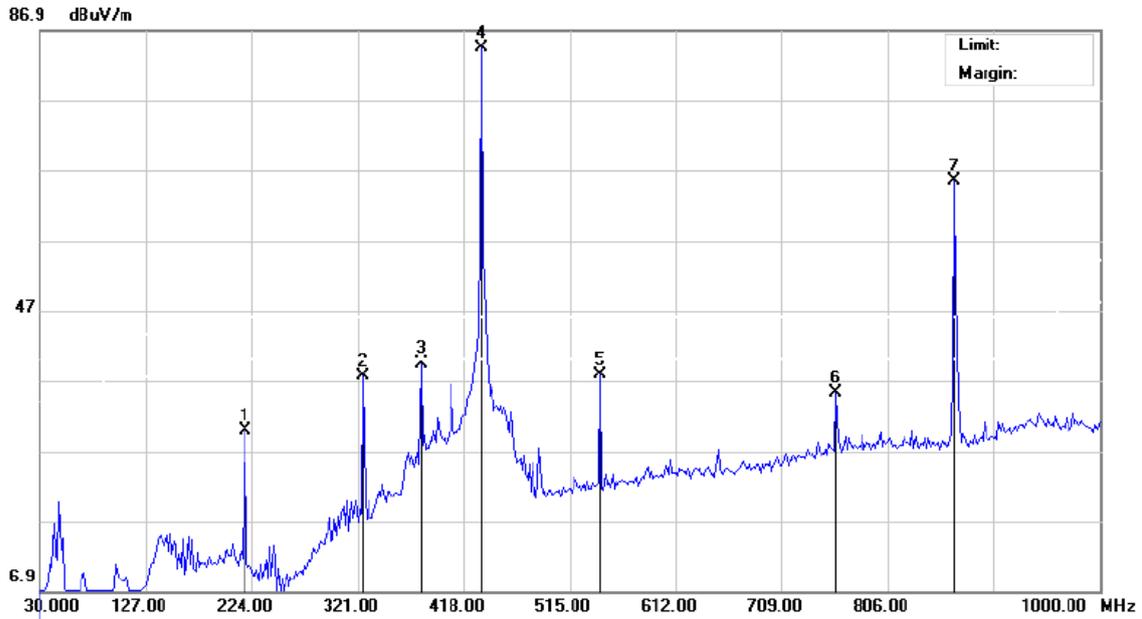


### 5.3. TEST RESULT

#### Test Mode: EUT @ 433MHz for RF Transmitter RADIATED EMISSION BELOW 30MHz

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

#### RADIATED EMISSION BELOW 1GHZ-Horizontal



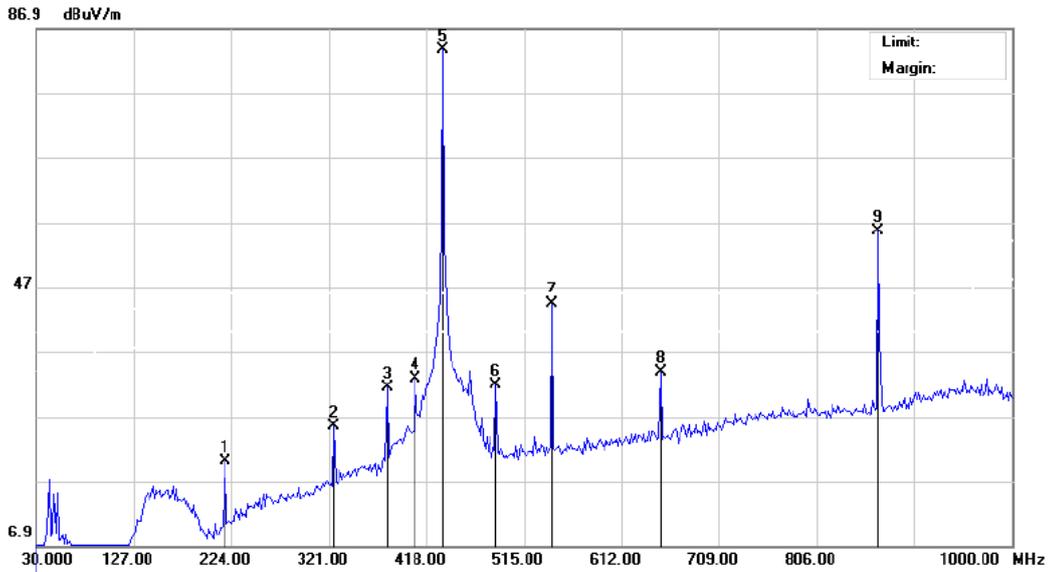
Frequency MHz	Polarization	Reading dB(uV)	Factor dB(1/m)	PK Level dB(uV/m)	Limit dB(uV/m) PK	Margin dB PK	Pass/Fail	Detector	Remark
433.950	H	64.36	20.11	84.47	100.82	-16.35	Pass	PK	Fundamental
867.900	H	37.57	27.76	65.33	80.82	-15.49	Pass	PK	Harmonic

Frequency MHz	Polarization	PK Level dB(uV/m)	Duty Cycle Correction Factor: dB	AV Level dB(uV/m)	Limit dB(uV/m) AV	Margin dB PK	Pass/Fail	Detector	Remark
433.950	H	84.47	-7.25	77.22	80.82	-3.60	Pass	PK	Fundamental
867.900	H	65.33	-7.25	58.08	60.82	-2.74	Pass	PK	Harmonic

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m)	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Detector	Remark
217.533	H	19.50	10.21	29.71	46.0	-16.29	Pass	PK	Other
325.850	H	20.55	17.13	37.68	46.0	-8.32	Pass	PK	Other
379.200	H	20.44	18.93	39.37	46.0	-6.63	Pass	PK	Other
542.483	H	15.58	22.28	37.86	46.0	-8.14	Pass	PK	Other
759.116	H	8.50	26.76	35.26	46.0	-10.74	Pass	PK	Other



**RADIATED EMISSION BELOW 1GHZ-Vertical**



Frequency MHz	Polarization	Reading dB(uV)	Factor dB(1/m)	PK Level dB(uV/m)	Limit dB(uV/m) PK	Margin dB PK	Pass/Fail	Detector	Remark
433.950	V	63.46	20.11	83.57	100.82	-17.25	Pass	PK	Fundamental
867.900	V	27.90	27.76	55.66	80.82	-25.16	Pass	PK	Harmonic

Frequency MHz	Polarization	PK Level dB(uV/m)	Duty Cycle Correction Factor: dB	AV Level dB(uV/m)	Limit dB(uV/m) AV	Margin dB PK	Pass/Fail	Detector	Remark
433.950	V	83.57	-7.25	76.32	80.82	-4.50	Pass	PK	Fundamental
867.900	V	55.66	-7.25	48.41	60.82	-12.41	Pass	PK	Harmonic

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m)	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Detector	Remark
217.533	V	9.37	10.72	20.09	46.0	-25.91	Pass	PK	Other
325.850	V	8.32	17.13	25.45	46.0	-20.55	Pass	PK	Other
379.200	V	12.53	18.89	31.46	46.0	-14.54	Pass	PK	Other
406.683	V	13.63	19.27	32.90	46.0	-13.1	Pass	PK	Other
487.516	V	10.88	21.00	31.88	46.0	-14.12	Pass	PK	Other
542.483	V	22.20	22.28	44.48	46.0	-1.52	Pass	PK	Other
650.800	V	9.95	23.87	33.82	46.0	-12.18	Pass	PK	Other

**RESULT: PASS**

Note: 1. Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Limit-Measurement.

2. Emissions of frequency range from 1GHz to 5GHz have 20dB margin. No recording in the test report.

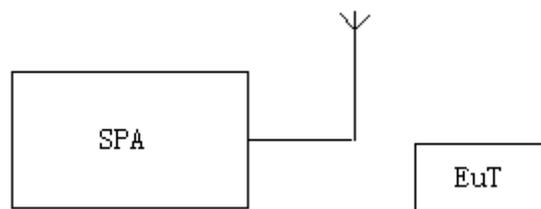


## 6. BANDWIDTH

### 6.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:  
Centre frequency = Operation Frequency  
RBW=3KHz  
VBW=10KHz  
Span: 300kHz  
Sweep time: Auto
2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
3. Record the plots and Reported.

### 6.2. TEST SETUP

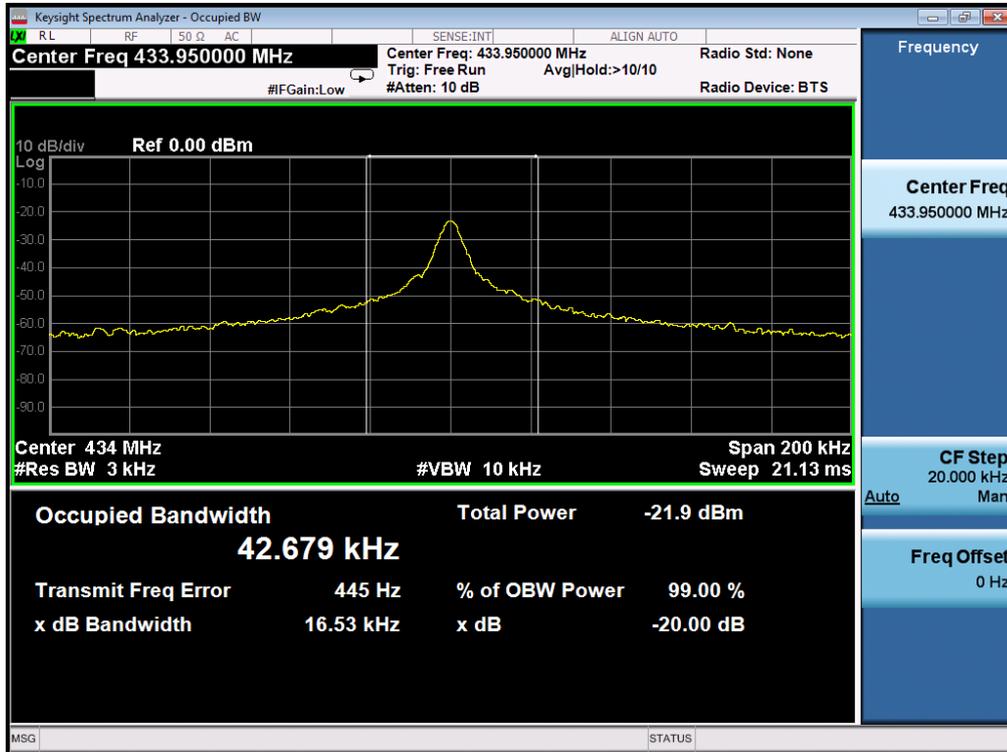




### 6.3. TEST RESULT

Test Mode: EUT @ 433MHz for RF Transmitter

-20dB bandwidth	LIMIT	RESULT
16.53kHz	1084.75KHz	Pass
Note: Limit= Operation Frequency x0.25%		







### **7.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

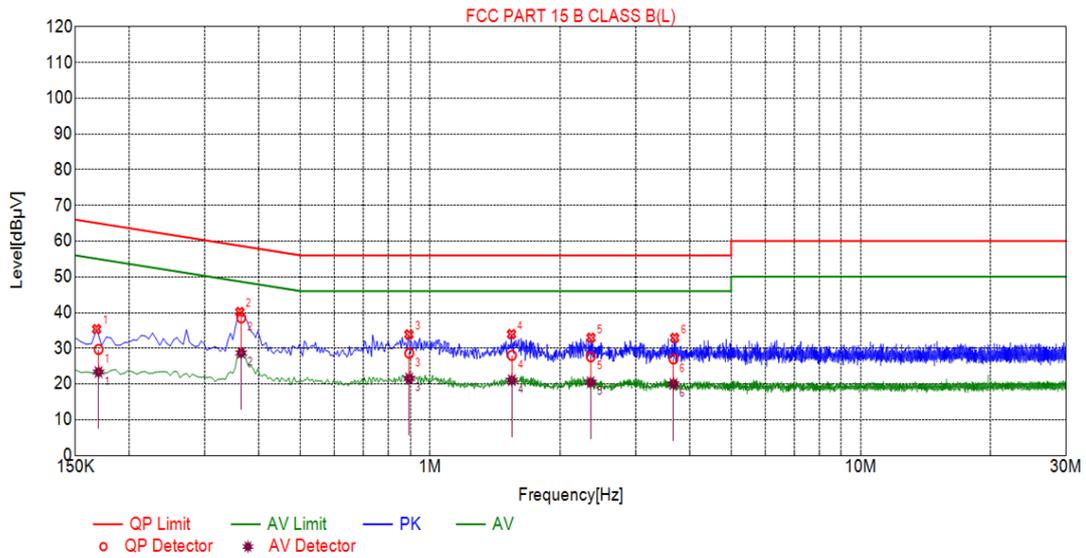
### **7.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST**

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less  $-2\text{dB}$  to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.



### 7.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### LINE CONDUCTED EMISSION TEST-L



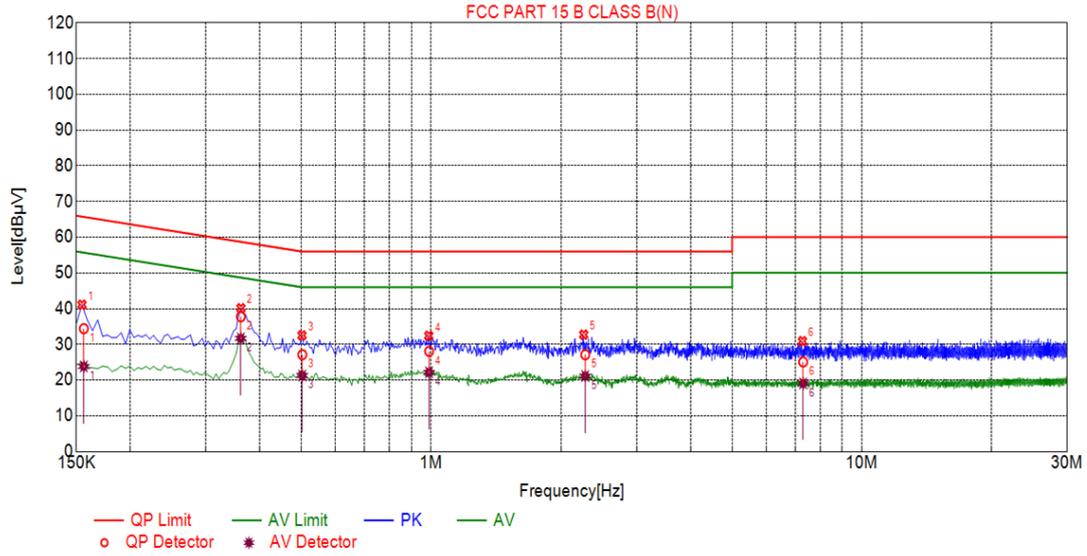
Suspected List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector
1	0.1680	35.36	10.01	65.06	29.70	PK
2	0.3615	40.14	10.04	58.69	18.55	PK
3	0.8925	33.87	10.06	56.00	22.13	PK
4	1.5450	33.95	10.11	56.00	22.05	PK
5	2.3640	32.95	10.18	56.00	23.05	PK
6	3.6960	32.91	10.25	56.00	23.09	PK

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1697	10.02	29.68	64.98	35.30	23.36	54.98	31.62
2	0.3639	10.04	38.53	58.64	20.11	28.72	48.64	19.92
3	0.8938	10.06	28.63	56.00	27.37	21.55	46.00	24.45
4	1.5473	10.11	28.01	56.00	27.99	21.07	46.00	24.93
5	2.3594	10.18	27.63	56.00	28.37	20.49	46.00	25.51
6	3.6729	10.25	27.01	56.00	28.99	20.02	46.00	25.98

**RESULT: PASS**



LINE CONDUCTED EMISSION TEST-N



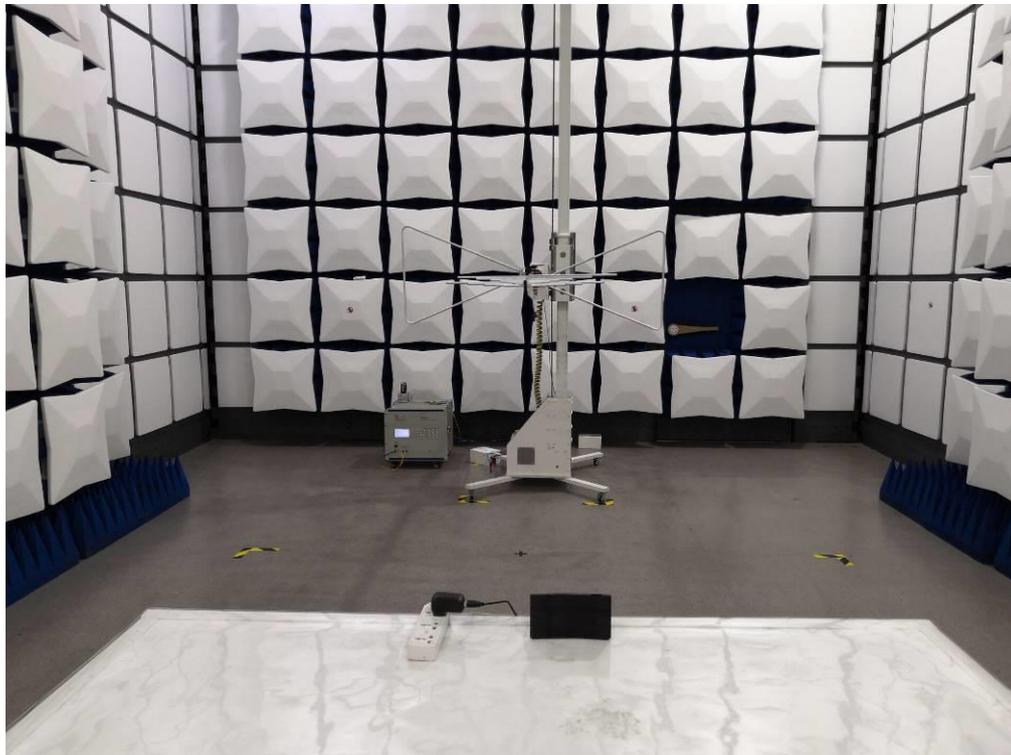
Suspected List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector
1	0.1545	41.11	10.03	65.75	24.64	PK
2	0.3615	40.11	10.04	58.69	18.58	PK
3	0.5010	32.52	10.04	56.00	23.48	PK
4	0.9670	32.41	10.06	56.00	23.59	PK
5	2.2605	32.72	10.18	56.00	23.28	PK
6	7.2825	30.89	10.18	60.00	29.11	PK

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1560	10.02	34.40	65.67	31.27	23.82	55.67	31.85
2	0.3612	10.04	37.74	58.70	20.96	31.68	48.70	17.02
3	0.5018	10.04	27.12	56.00	28.88	21.28	46.00	24.72
4	0.9686	10.06	28.06	56.00	27.94	22.17	46.00	23.83
5	2.2790	10.18	27.10	56.00	28.90	21.13	46.00	24.87
6	7.3082	10.18	25.08	60.00	34.92	19.08	50.00	30.92

RESULT: PASS

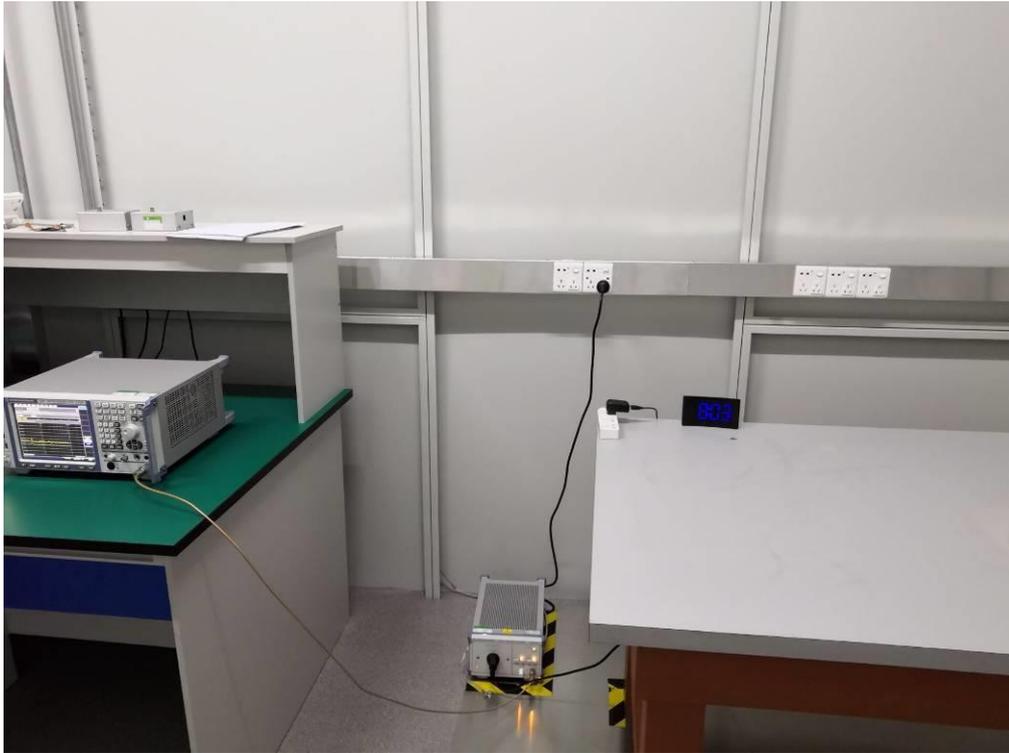
## 8. PHOTOGRAPH OF TEST

### Radiated Emission





### Conducted Emission



## 9. PHOTOGRAPH OF EUT

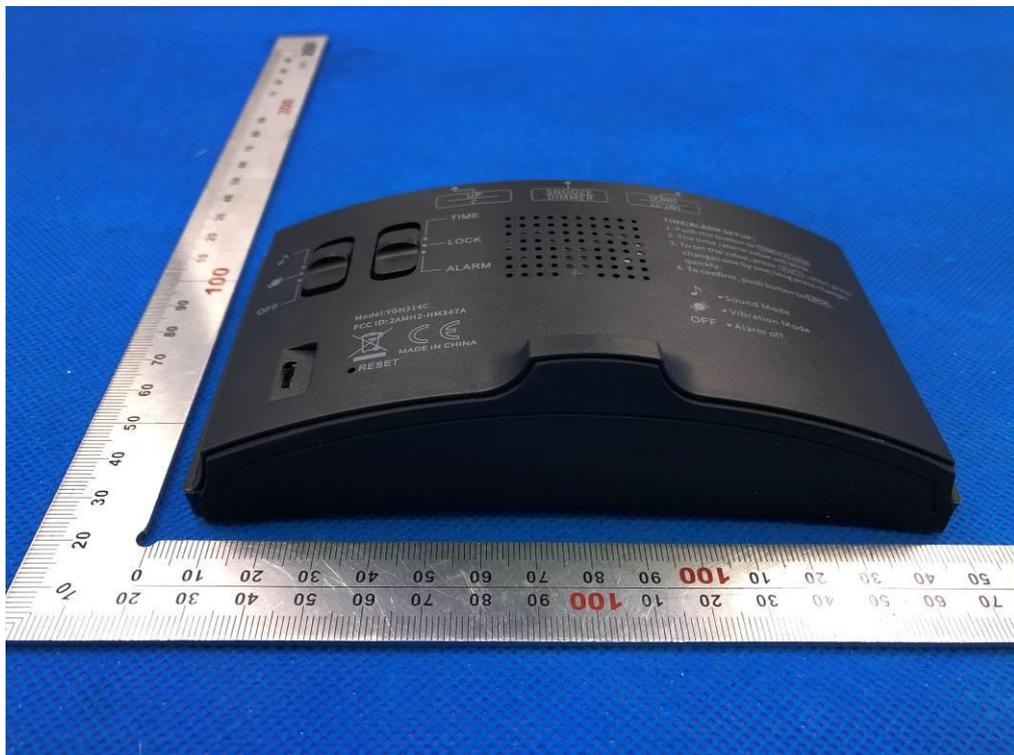
TOP VIEW OF EUT



Transmitter  
TOP VIEW OF EUT

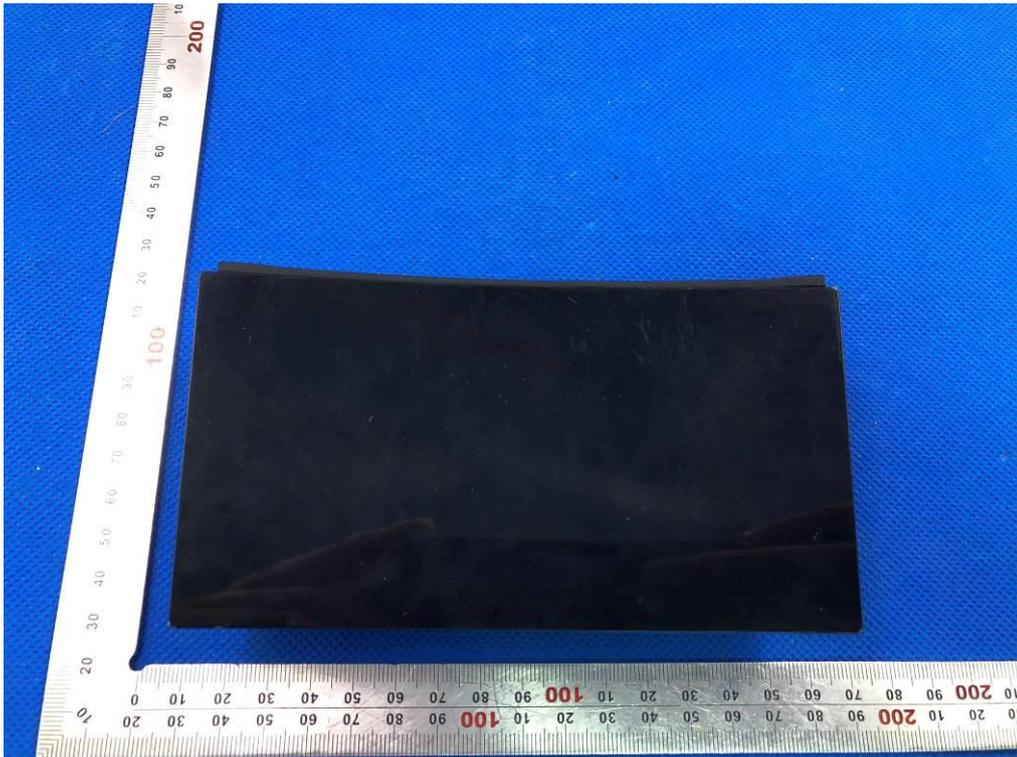


BOTTOM VIEW OF EUT

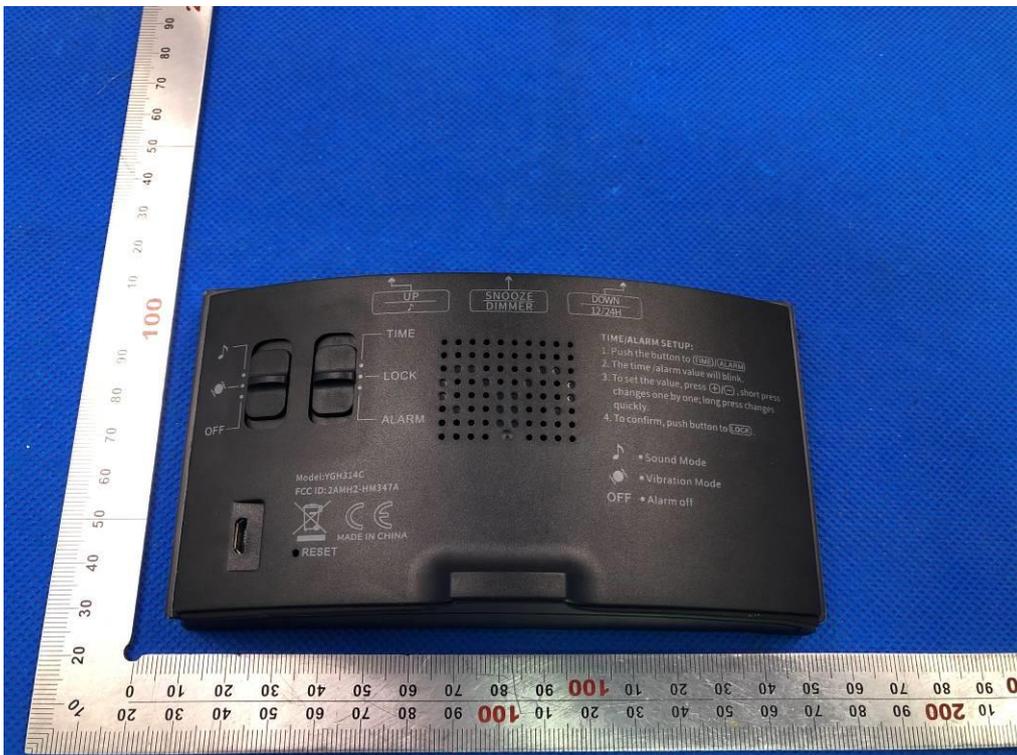




### FRONT VIEW OF EUT

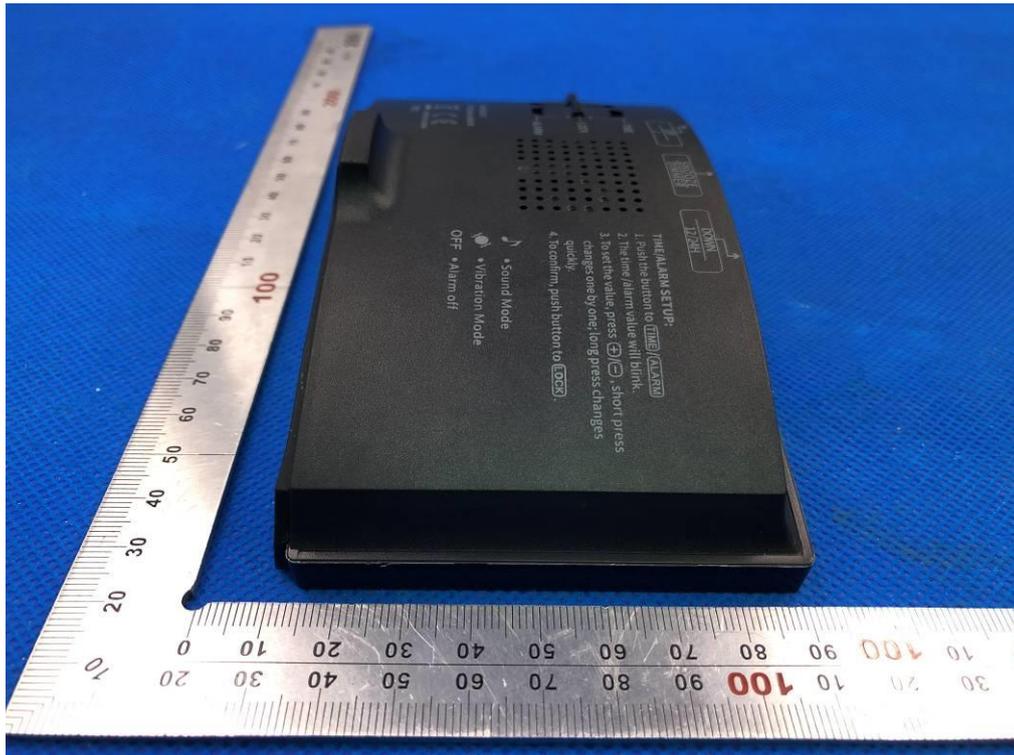


### BACK VIEW OF EUT

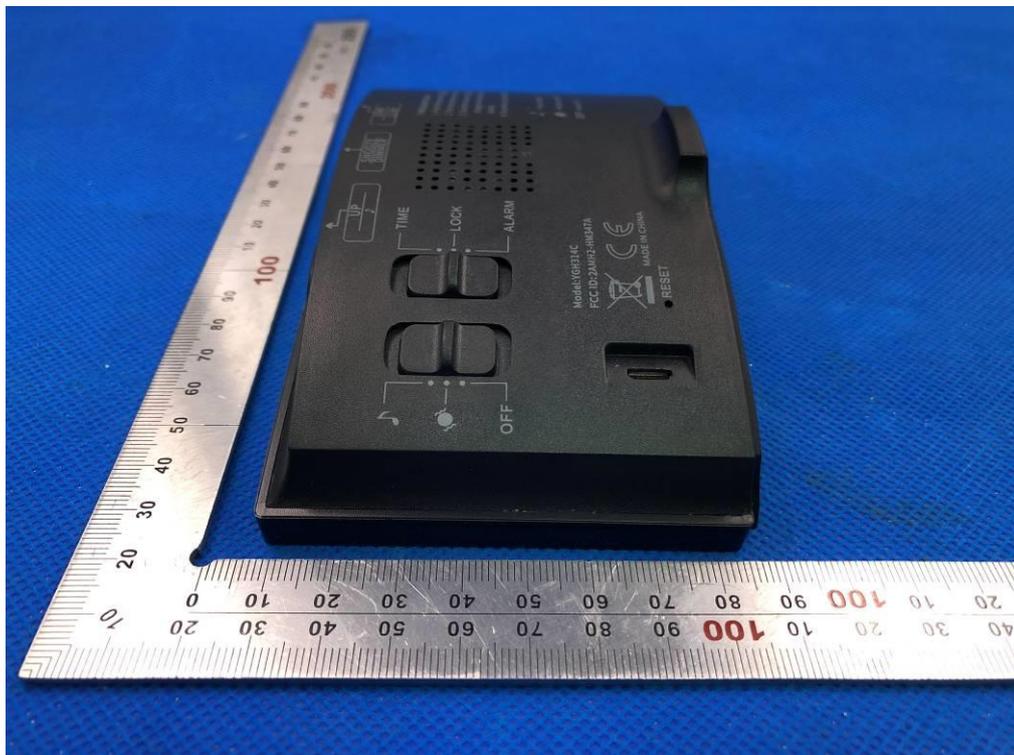




LEFT VIEW OF EUT



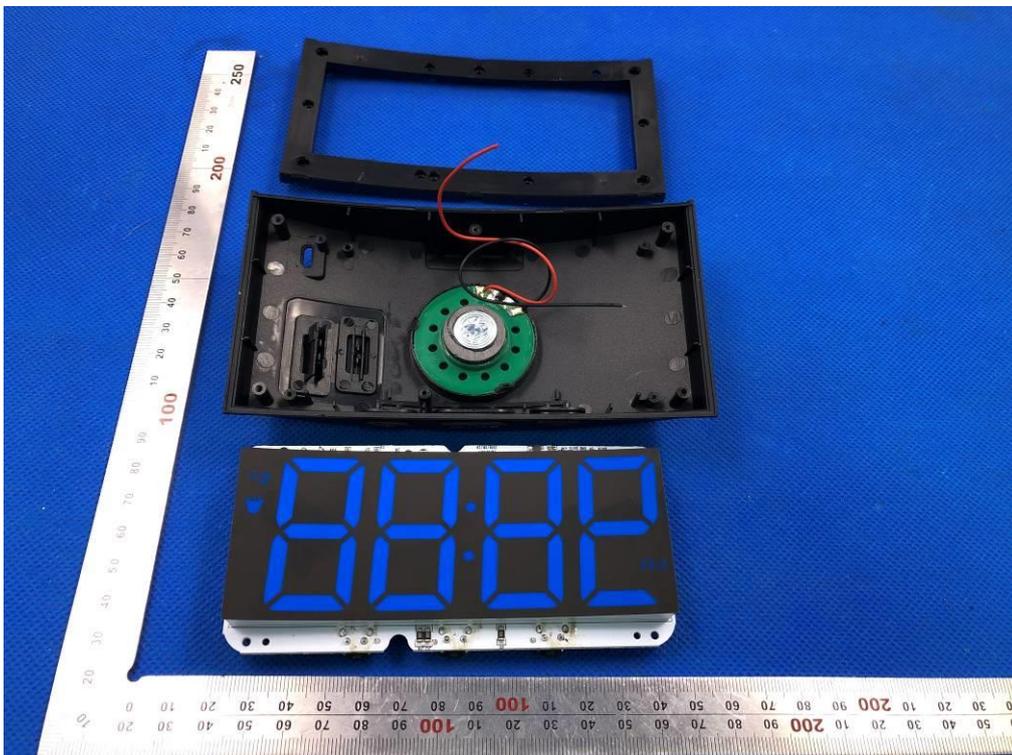
RIGHT VIEW OF EUT



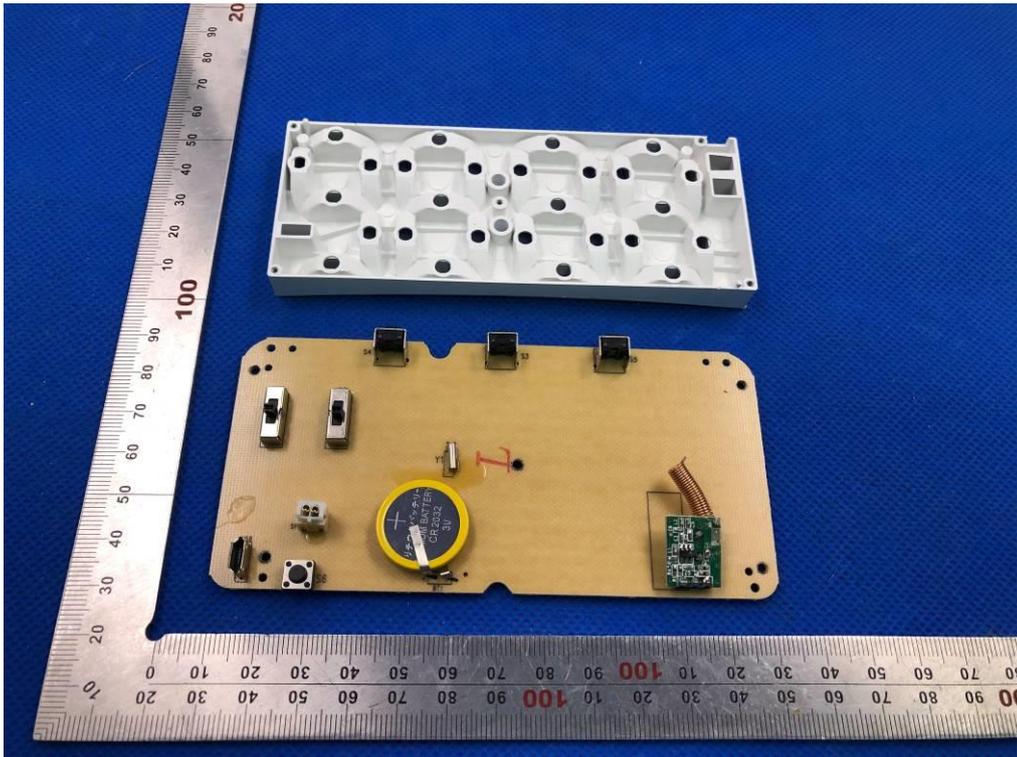
OPEN VIEW-1 OF EUT



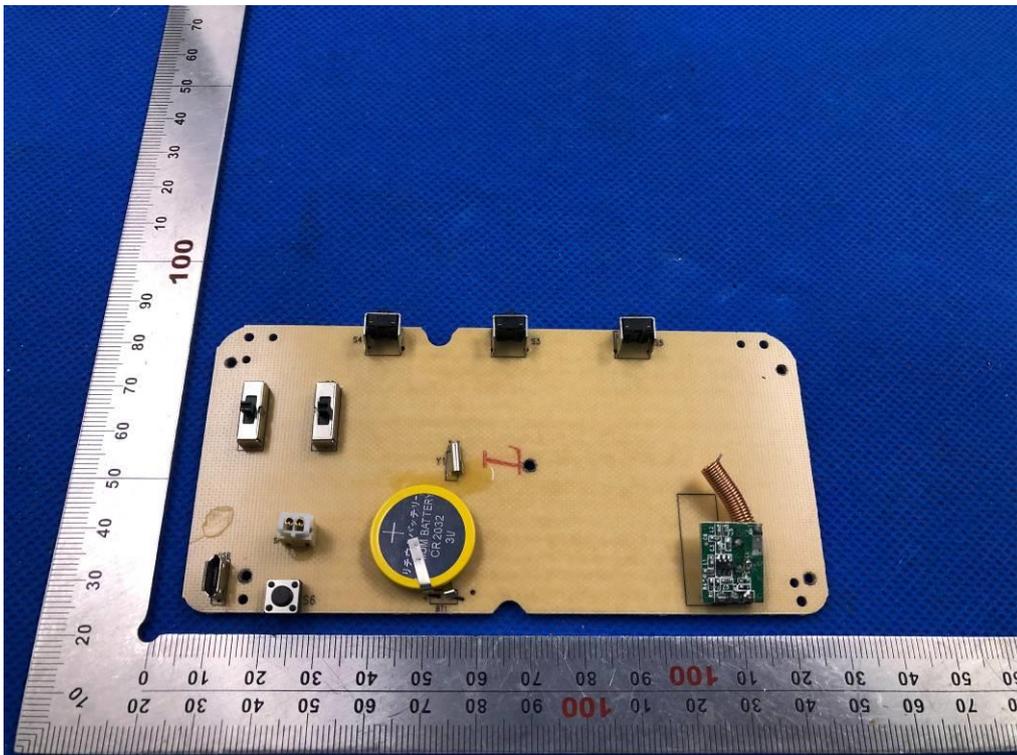
OPEN VIEW-2 OF EUT



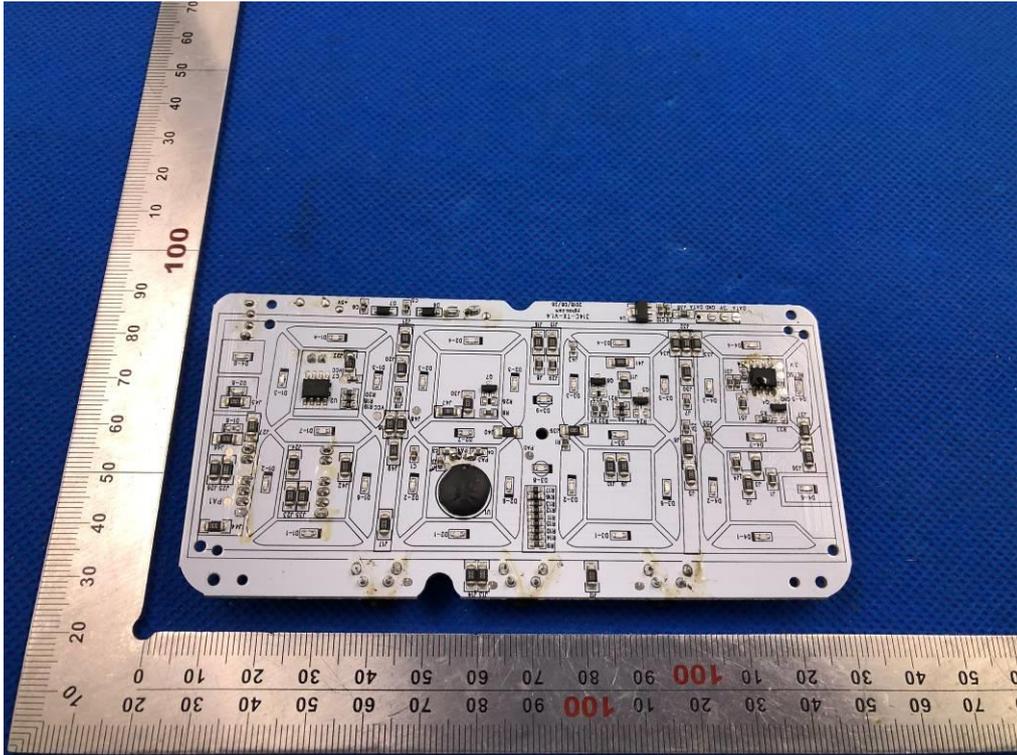
### INTERNAL VIEW-1 OF EUT



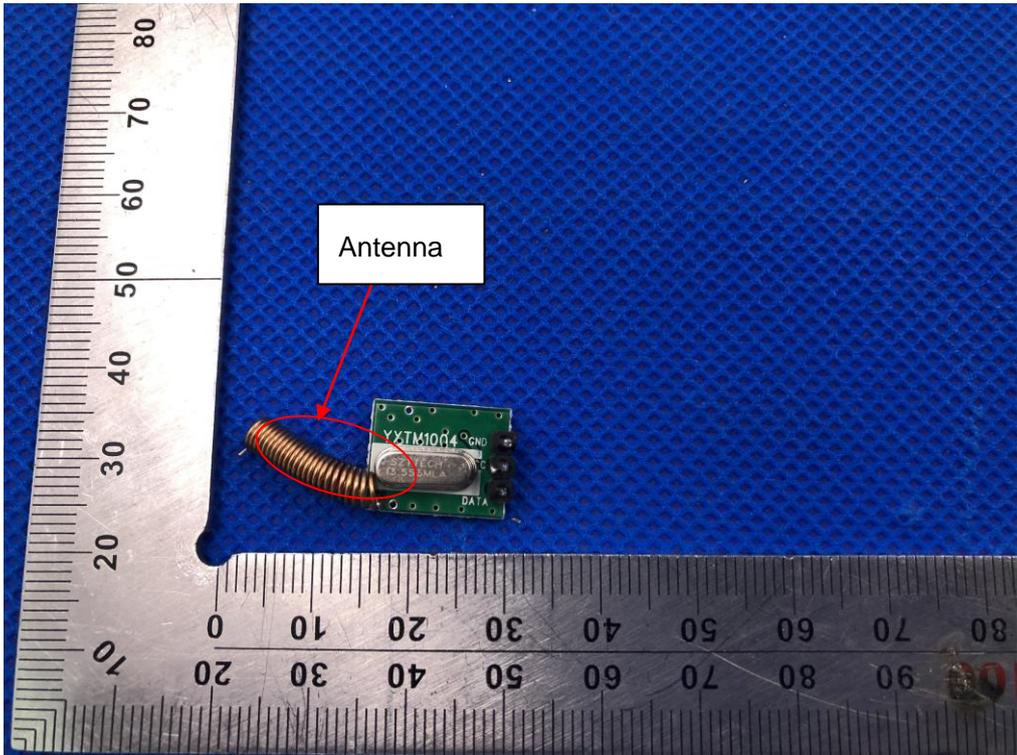
### INTERNAL VIEW-2 OF EUT



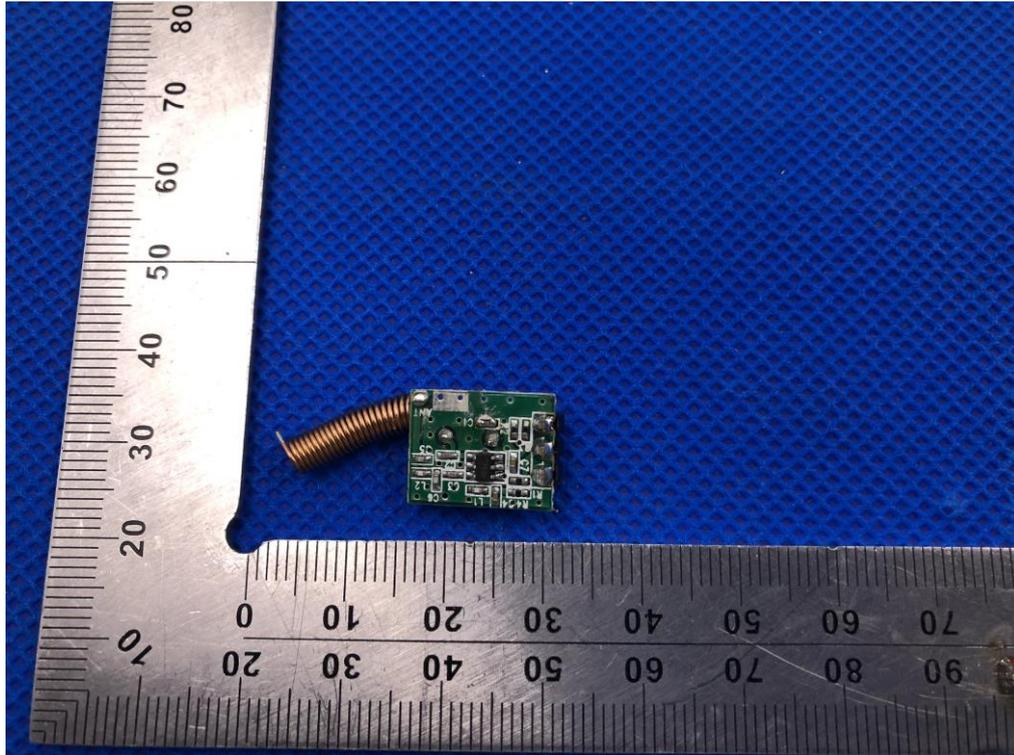
INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



INTERNAL VIEW-5 OF EUT

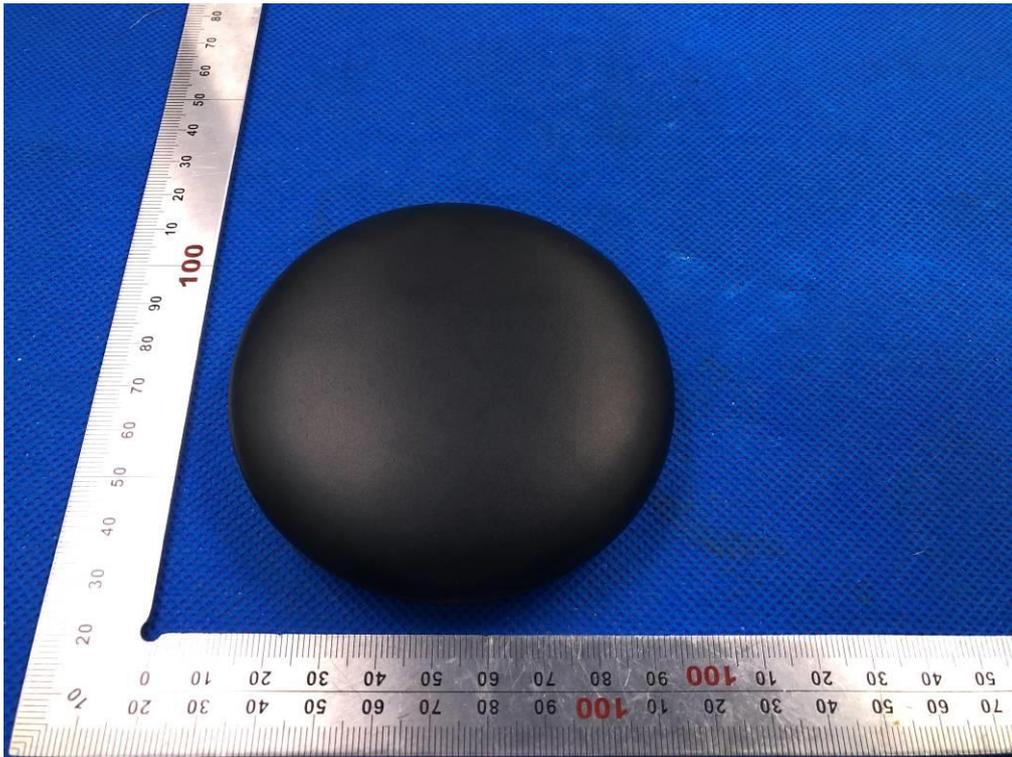


Receiver

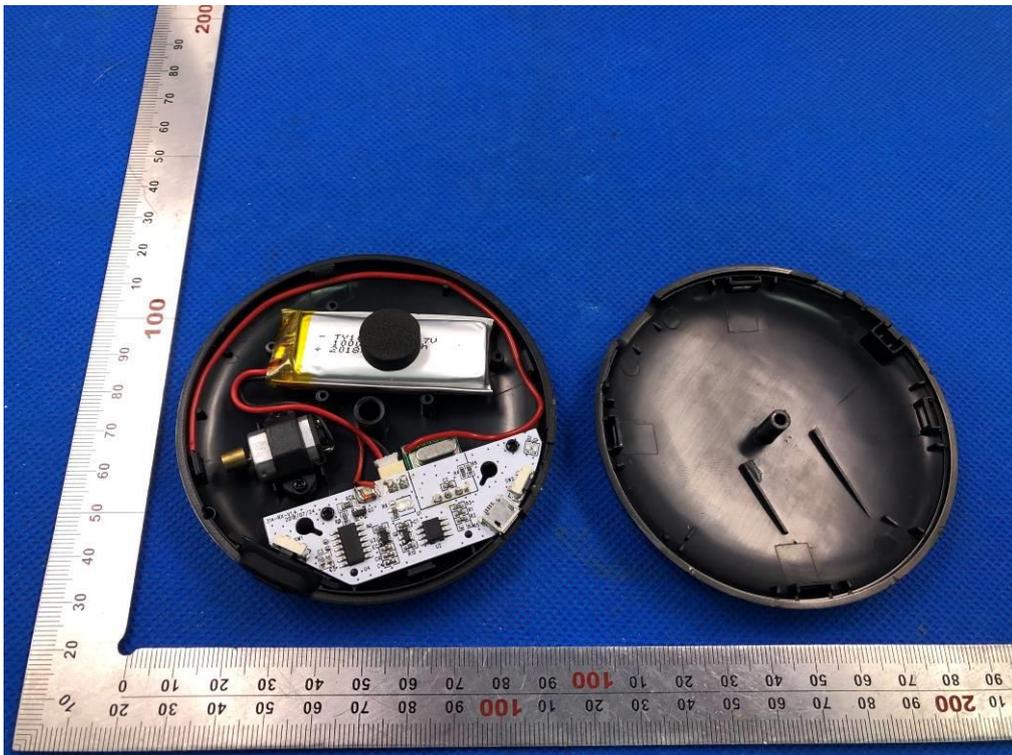
FRONT VIEW OF EUT



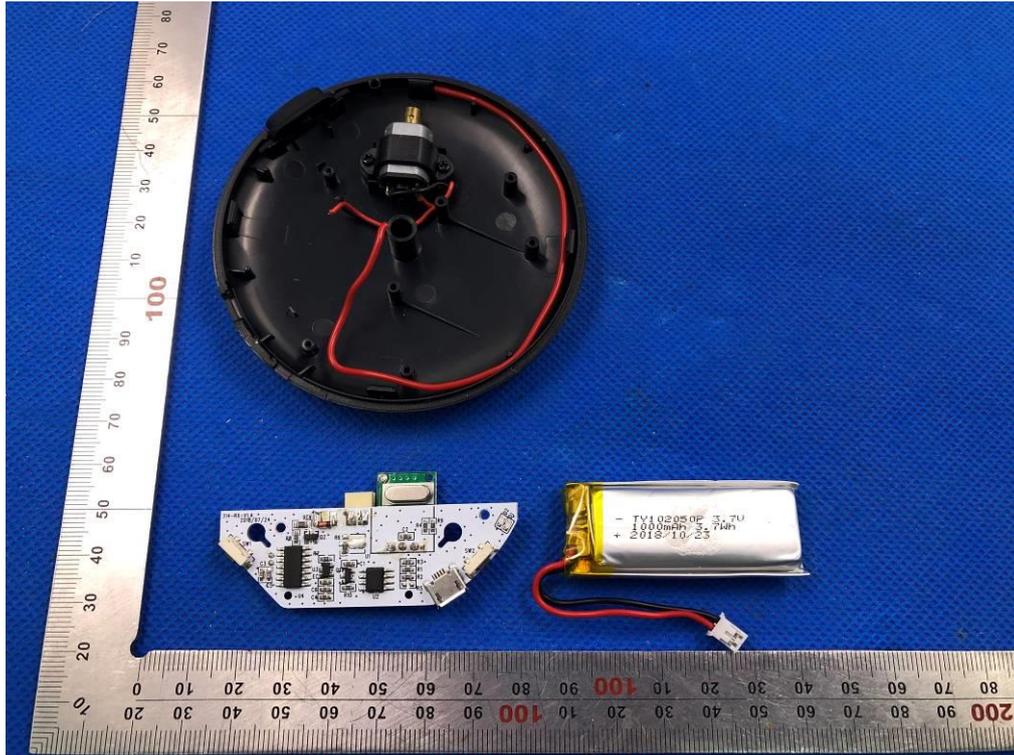
BACK VIEW OF EUT



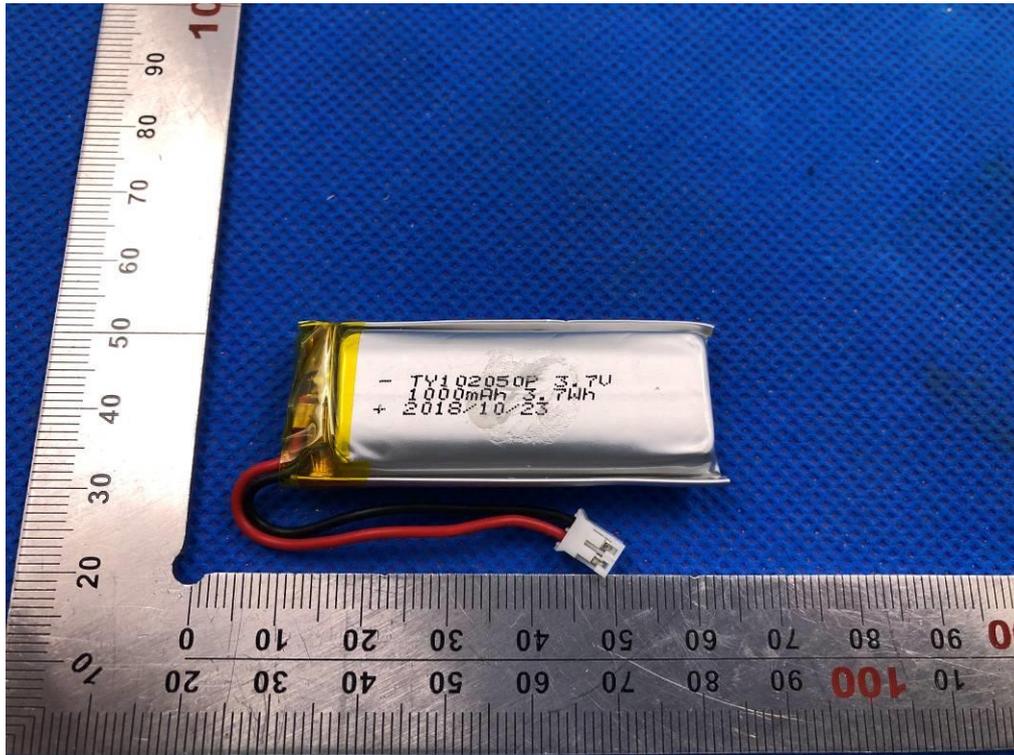
OPEN VIEW-1 OF EUT



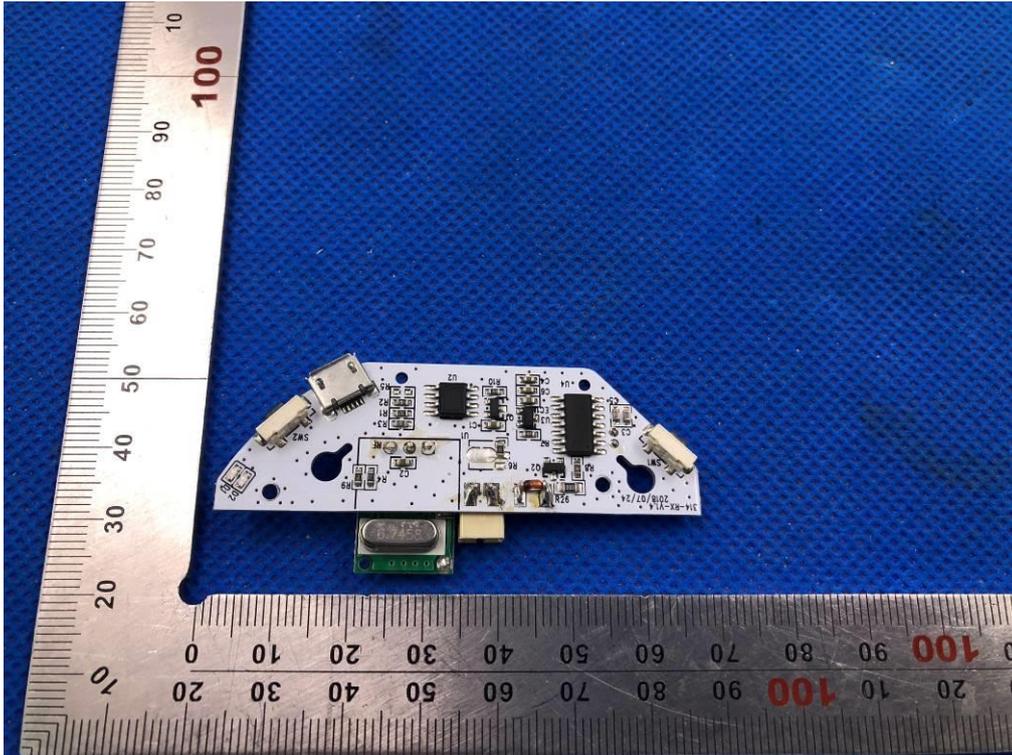
OPEN VIEW-2 OF EUT



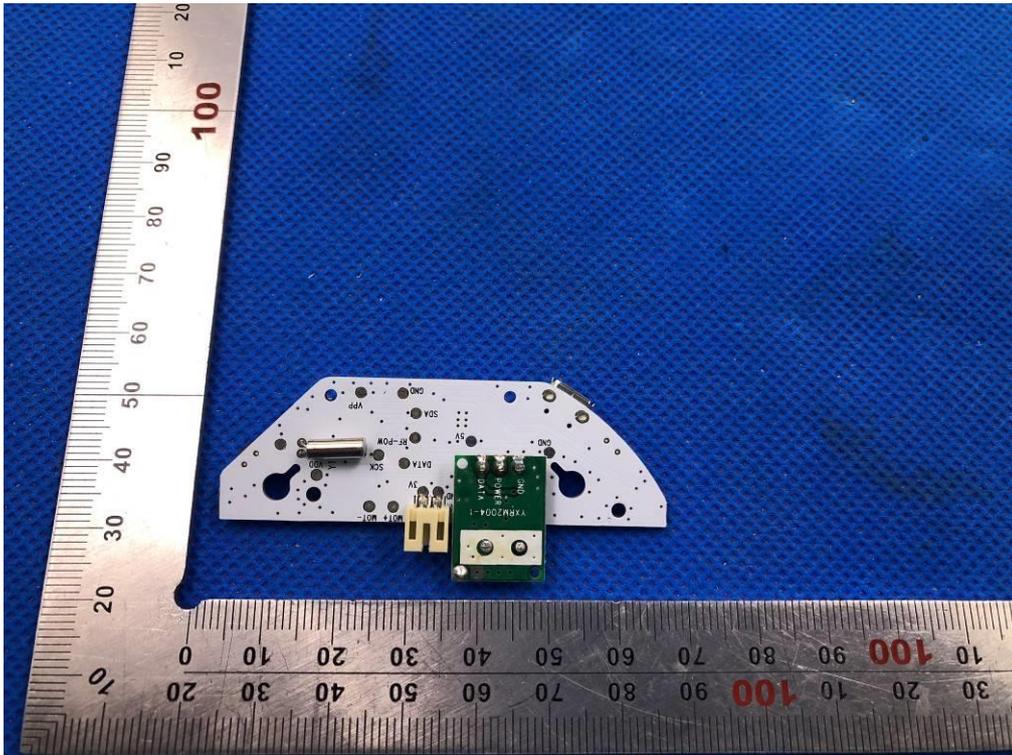
VIEW OF BATTERY



INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT





INTERNAL VIEW-3 OF EUT



----END OF REPORT----