

FCC Test Report

Report No.: AGC09477210117FE03

FCC ID : 2AM7I-JUNO
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Lovehoney x Juno Rechargeable Music Activated Vibe
BRAND NAME : Lovehoney
MODEL NAME : 80014, 80015, 80016, 80017
APPLICANT : Lovehoney Ltd.
DATE OF ISSUE : Feb. 03, 2021
STANDARD(S) : FCC Part 15 Subpart C Section 15.231
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	/	Feb. 03, 2021	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Lovehoney Ltd.
Address	100 Locksbrook Road, Bath, BA1 3EN, UK
Manufacturer	Hong Kong Passkey Industry Co, Limited
Address	2/F, Block 6, Huafeng High Tech Industry Park, Datianyang, Dongfang, Songgang, Bao'An District, Shenzhen
Factory	Hong Kong Passkey Industry Co, Limited
Address	2/F, Block 6, Huafeng High Tech Industry Park, Datianyang, Dongfang, Songgang, Bao'An District, Shenzhen
Product Designation	Lovehoney x Juno Rechargeable Music Activated Vibe
Brand Name	Lovehoney
Test Model	80014
Series Model	80015, 80016, 80017
Difference description	Different shaped Silicone covers/outers. All the series models are the same as the test model except for the model name
Date of test	Jan. 21, 2021 to Feb. 03, 2021
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.231. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Eddy Liu

Eddy Liu
(Project Engineer)

Feb. 03, 2021

Reviewed By

Max Zhang

Max Zhang
(Reviewer)

Feb. 03, 2021

Approved By

Forrest Lei

Forrest Lei
(Authorized Officer)

Feb. 03, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	433.92MHz
Field Strength(3m)	61.80dBuV/m(Peak)@3m
Modulation	ASK
Number of channels	1
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	FPC Antenna
Antenna Gain	0dBi
Power Supply	Remote control: DC 3.7V by battery or DC 5V by adapter Receiver: DC 3.7V by battery or DC 5V by adapter

2.2. 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.

2.3. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode(Manual operated)
Note: 1. All the test modes can be supply by new battery, and 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. 3. For battery operated equipment, the equipment tests are performed using a new battery.	

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Lovehoney Ltd.	Lovehoney x Juno Rechargeable Music Activated Vibe	80014	EUT

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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.231(a)(1)	Manual operated	Compliant
ANSI C63.10 Clause 7.5	Average Factor	N/A
§15.231(b) & §15.209	Field Strength of Fundamental and Spurious Emission	Compliant
§15.231(c)	Bandwidth	Compliant
15.207	Conducted Emission	N/A

Note: The EUT is powered by battery. N/A means not applicable in this report.

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6. TEST FACILITY

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

7. TEST EQUIPMENT LIST

7.1.TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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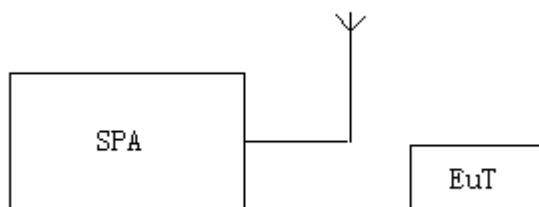


8.PROVISION FOR MOMENTARY OPERATION

8.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:
Centre frequency = Operation Frequency
RBW=1MHz, VBW=3MHz
Span: 0Hz
Sweep time: 10S
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.

8.2 TEST SETUP



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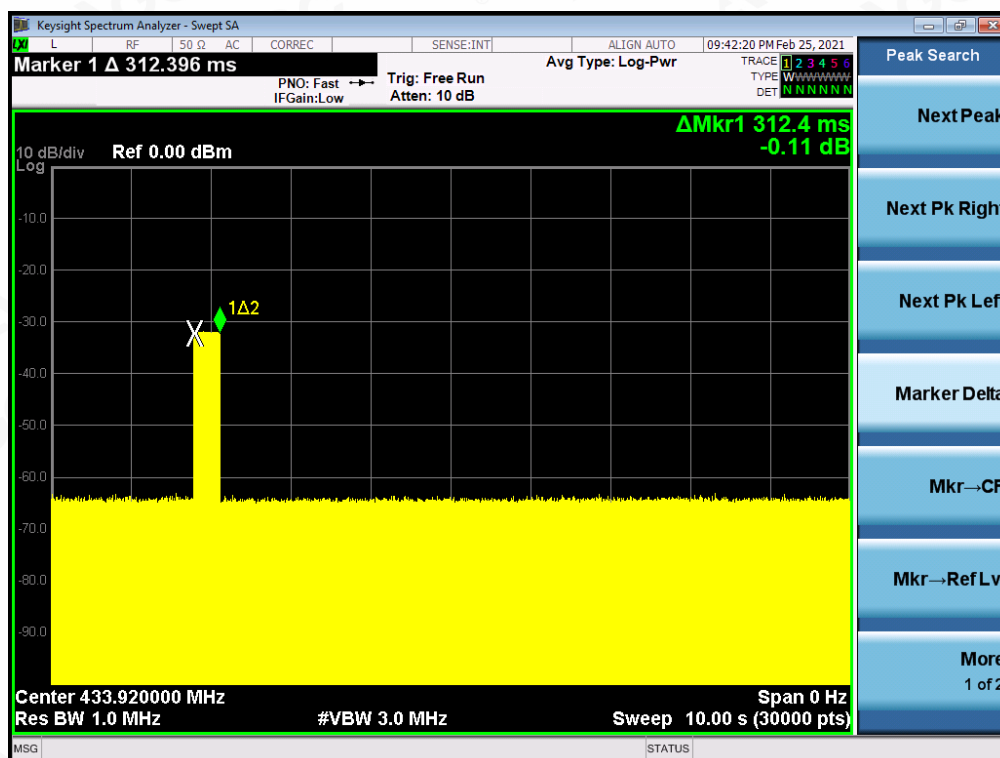
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8.3 TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter

The time of stopping transmission after automatically activation by alarm sensor(s)	Limit (s)
0.312	5.00



RESULT: PASS

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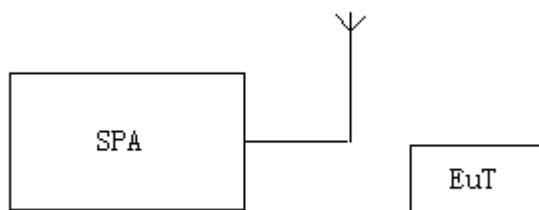


9. DUTY CYCLE CORRECTION FACTOR

9.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:
Centre frequency = 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.

9.2 TEST SETUP



9.3 TEST RESULT

Note: The level of the peak emission are less than the average limit, so the average factor need not to be tested.

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10. RADIATED EMISSION

10.1. 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.

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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

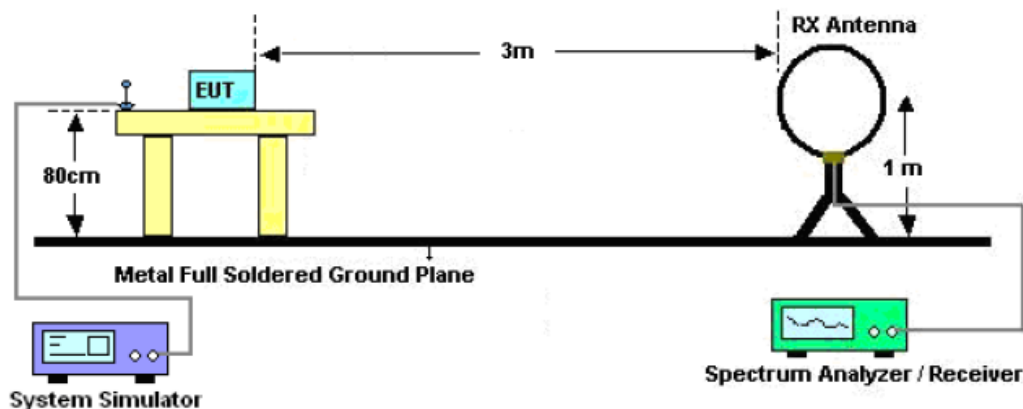
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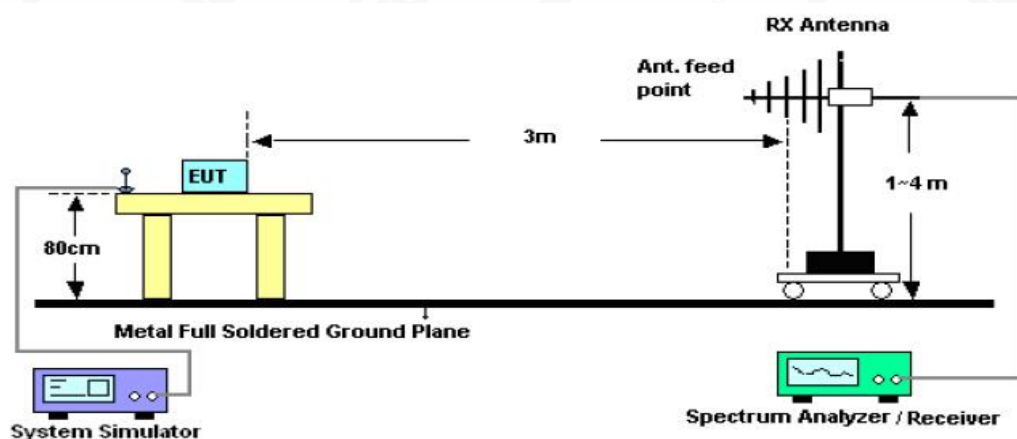


10.2. TEST SETUP

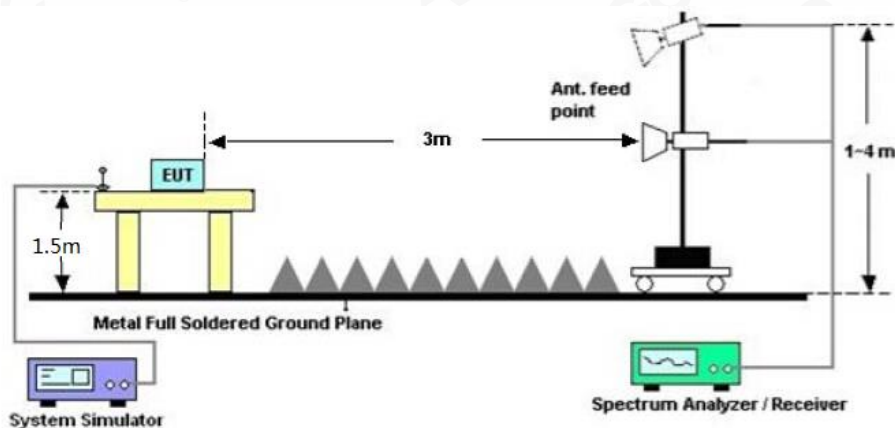
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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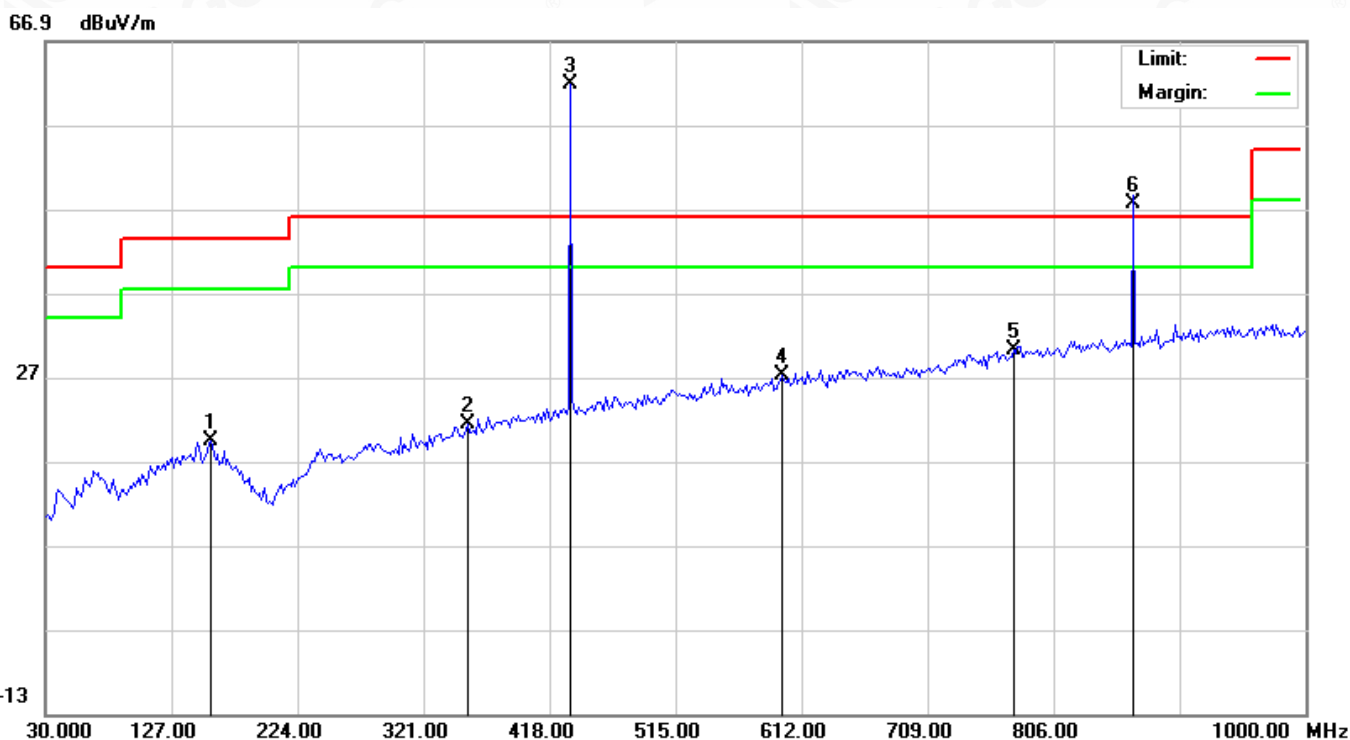
10.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter

RADIATED EMISSION BELOW 30MHz

The result of the lowest internal use/generated frequency to 30MHz is 20dB less than the limit.

RADIATED EMISSION BELOW 1GHZ-Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		157.7167	0.25	19.19	19.44	43.50	-24.06	peak
2		354.9500	-0.04	21.40	21.36	46.00	-24.64	peak
3	*	434.1667	38.13	23.67	61.80	100.82	-39.02	peak
4		597.4500	0.30	26.90	27.20	46.00	-18.80	peak
5		775.2833	0.33	29.85	30.18	46.00	-15.82	peak
6	X	867.4333	16.25	31.28	47.53	80.82	-33.29	QP

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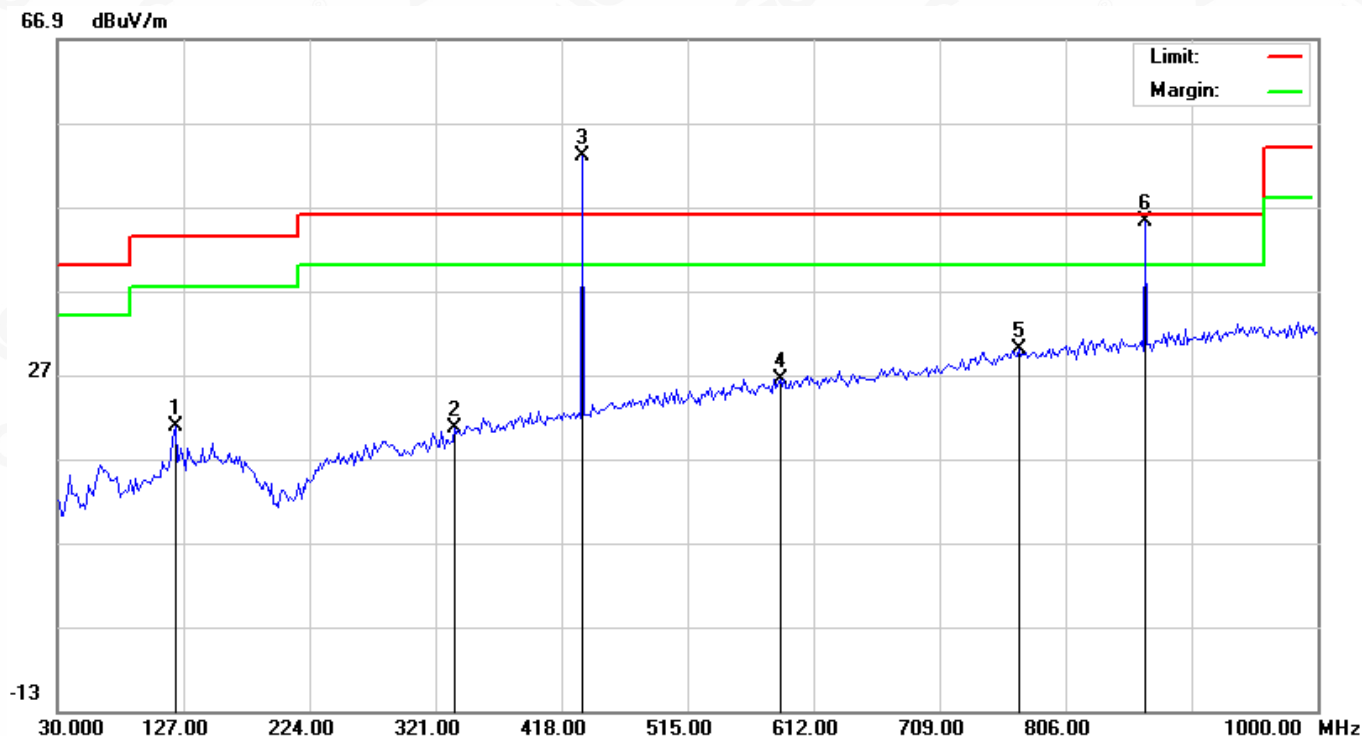
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RADIATED EMISSION BELOW 1GHZ-Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		120.5333	2.79	18.00	20.79	43.50	-22.71	peak
2		335.5500	-0.04	20.72	20.68	46.00	-25.32	peak
3	*	434.1667	29.41	23.67	53.08	100.82	-27.74	peak
4		586.1332	-0.20	26.68	26.48	46.00	-19.52	peak
5		770.4333	0.29	29.74	30.03	46.00	-15.97	peak
6	!	867.4333	13.88	31.28	45.16	80.82	-35.66	peak

RESULT: PASS

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

- The "Factor" value can be calculated automatically by software of measurement system.
- Emissions of frequency range from 1GHz to 5GHz have 20dB margin. No recording in the test report.
- Peak detector is used for radiation dispersion test.

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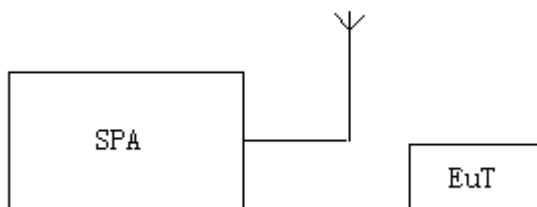


11. BANDWIDTH

11.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:
Centre frequency = Operation Frequency
RBW=3KHz
VBW=10KHz
Span: 50kHz
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.

11.2. TEST SETUP



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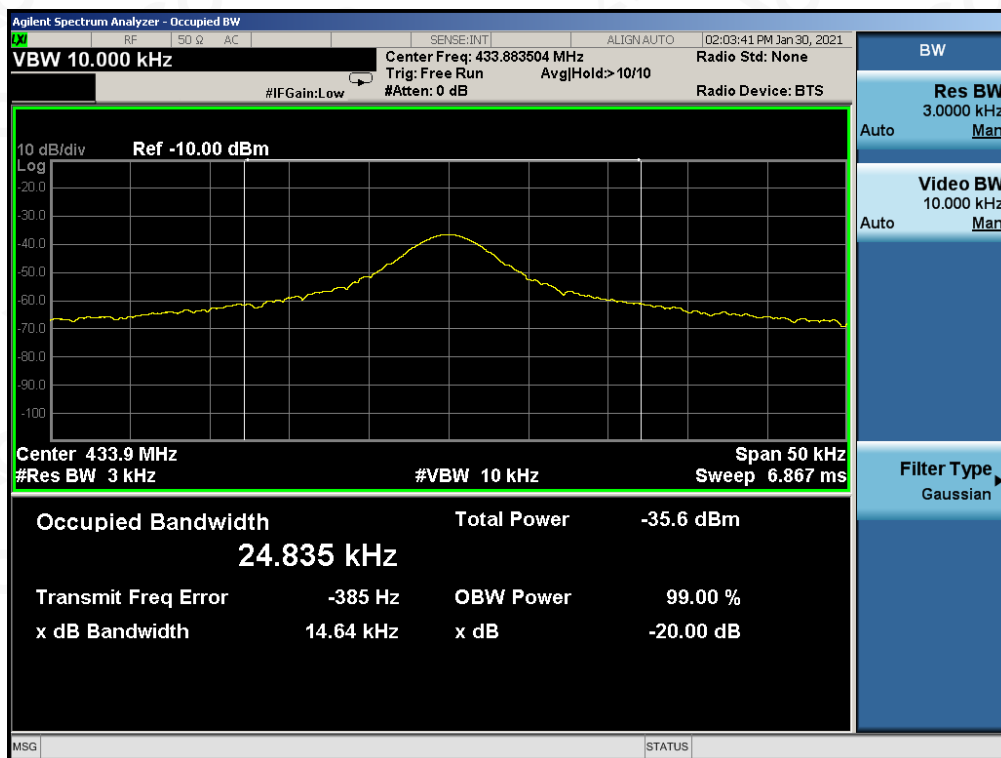
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11.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter

-20dB bandwidth	LIMIT	RESULT
14.64kHz	1084.8KHz	Pass
Note: Limit= Operation Frequency x0.25%		



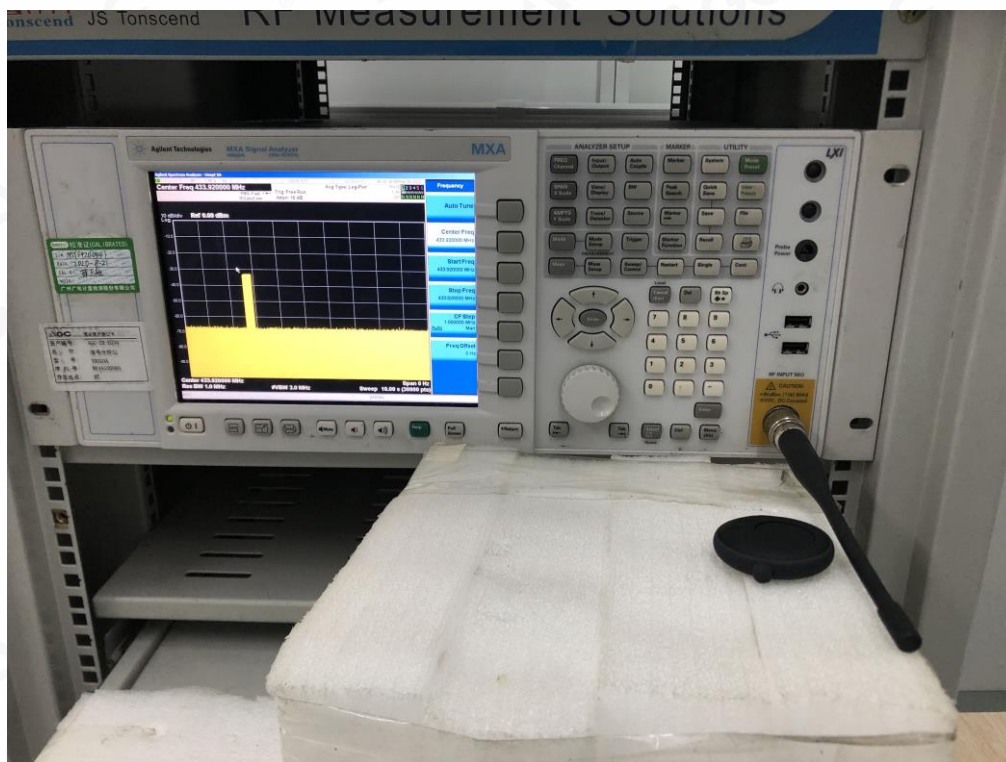
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

PROVISION FOR MOMENTARY OPERATION



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FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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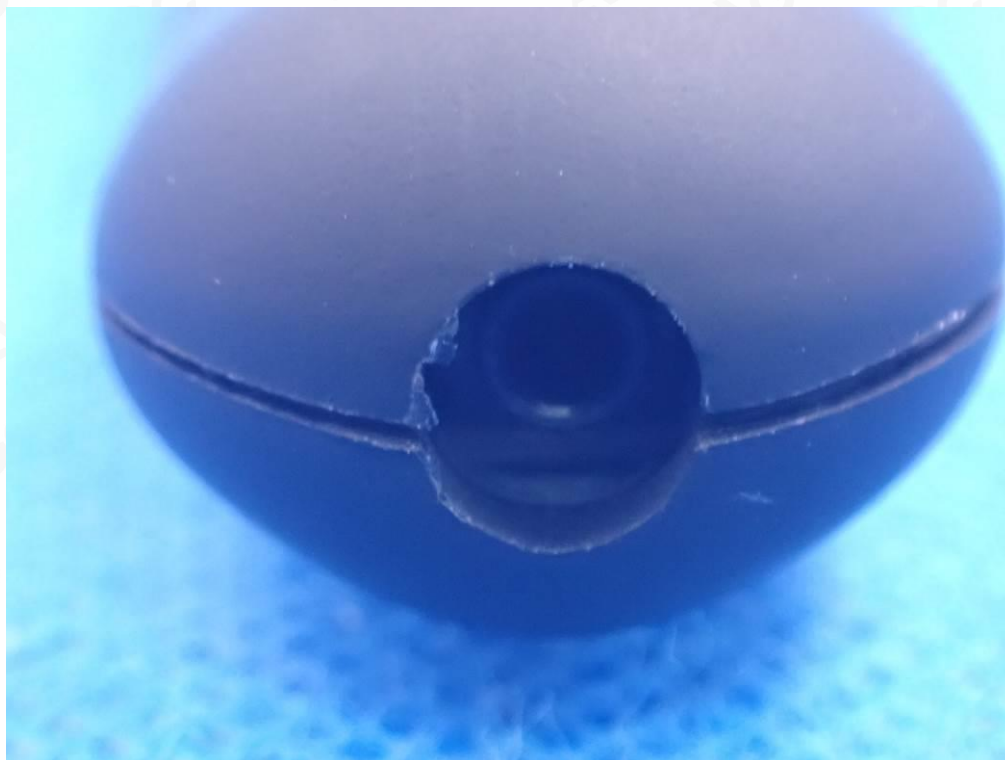
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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)

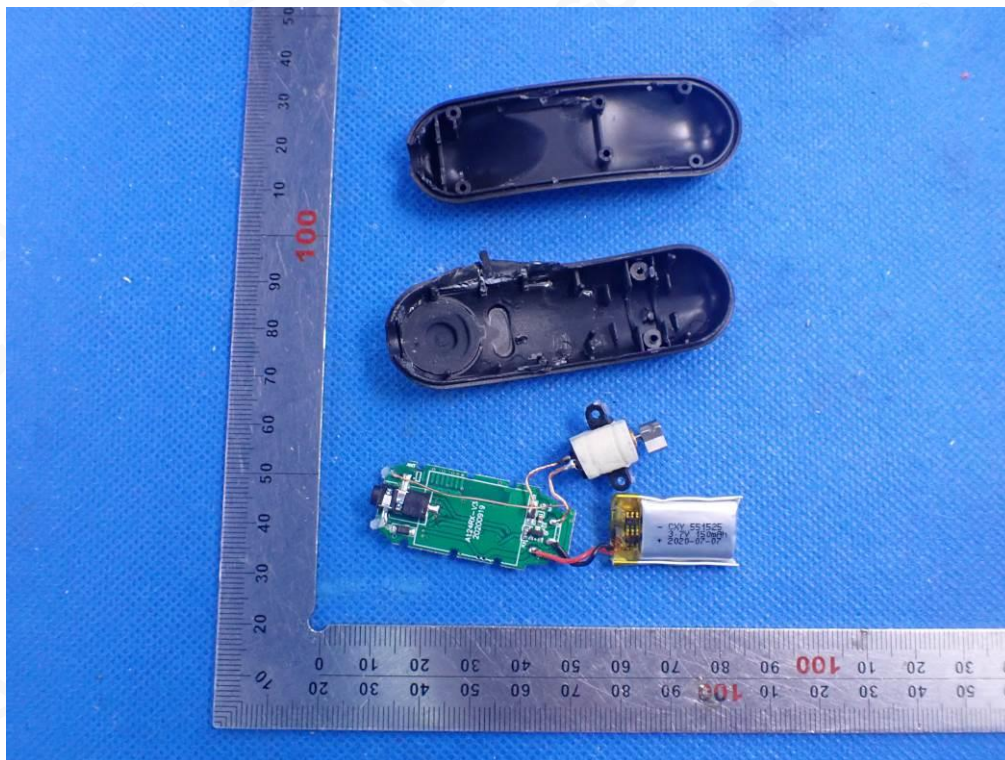


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OPEN VIEW OF EUT-1



VIEW-2 OF MOTOR

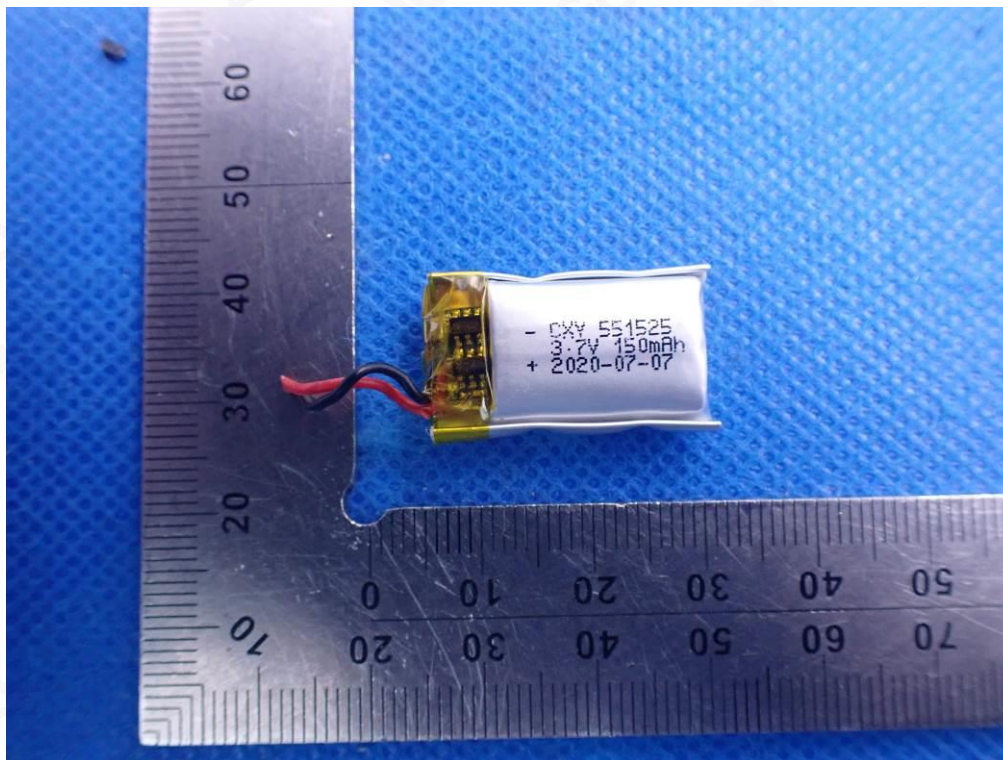


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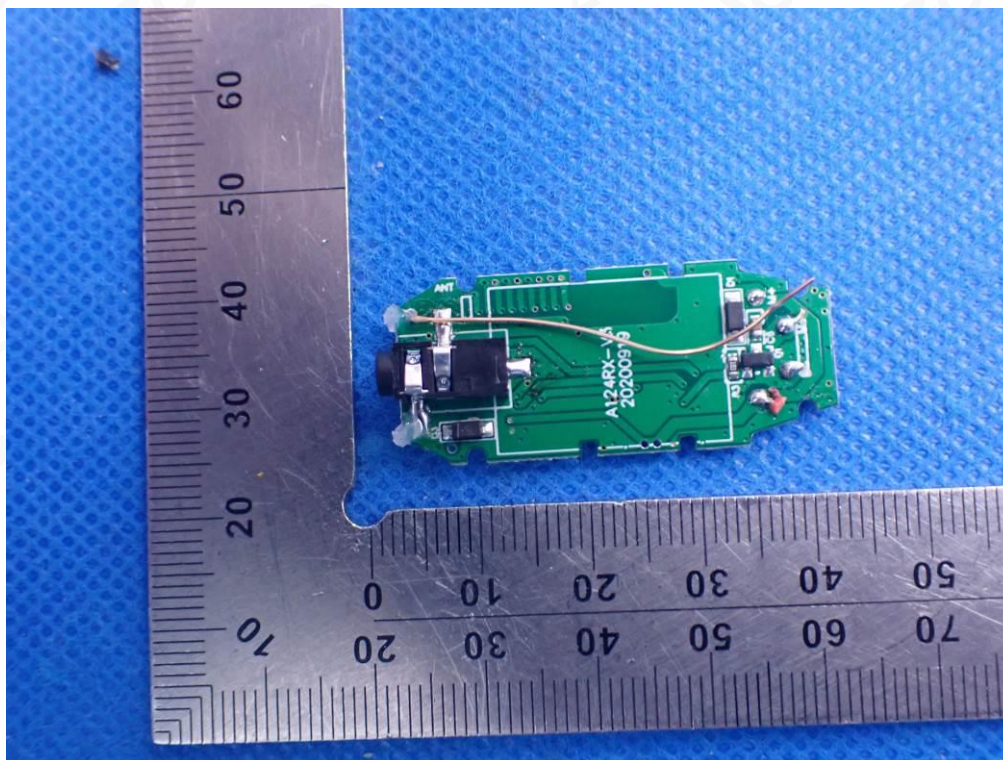
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VIEW-3 OF BATTERY



INTERNAL VIEW-1 OF EUT

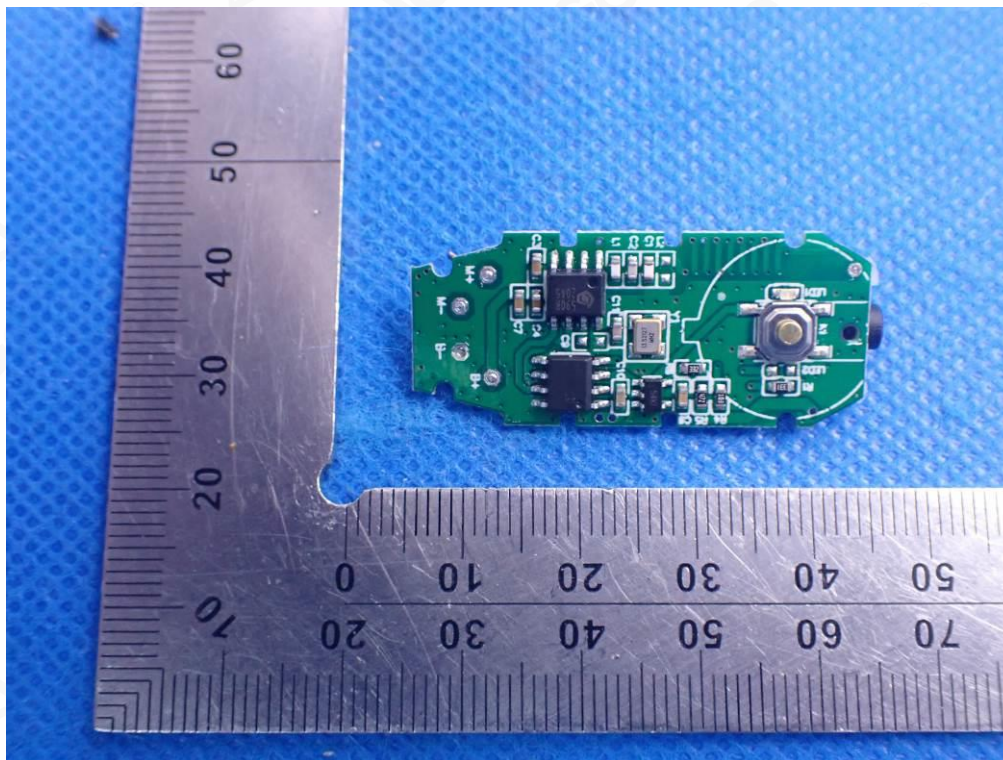


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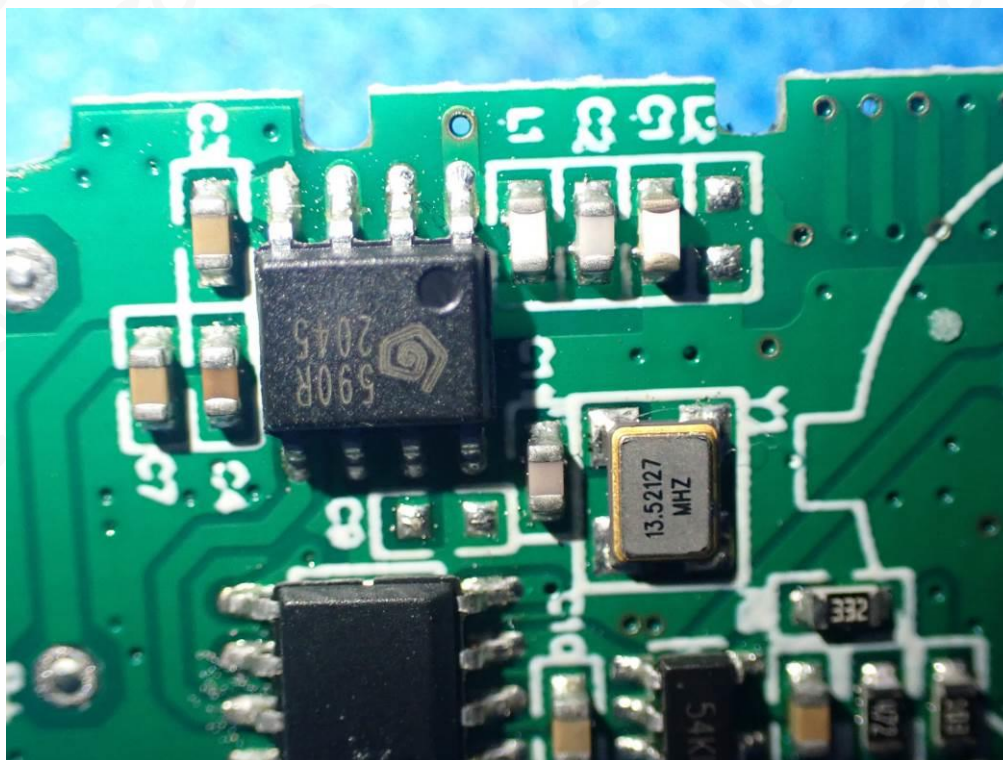
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INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT

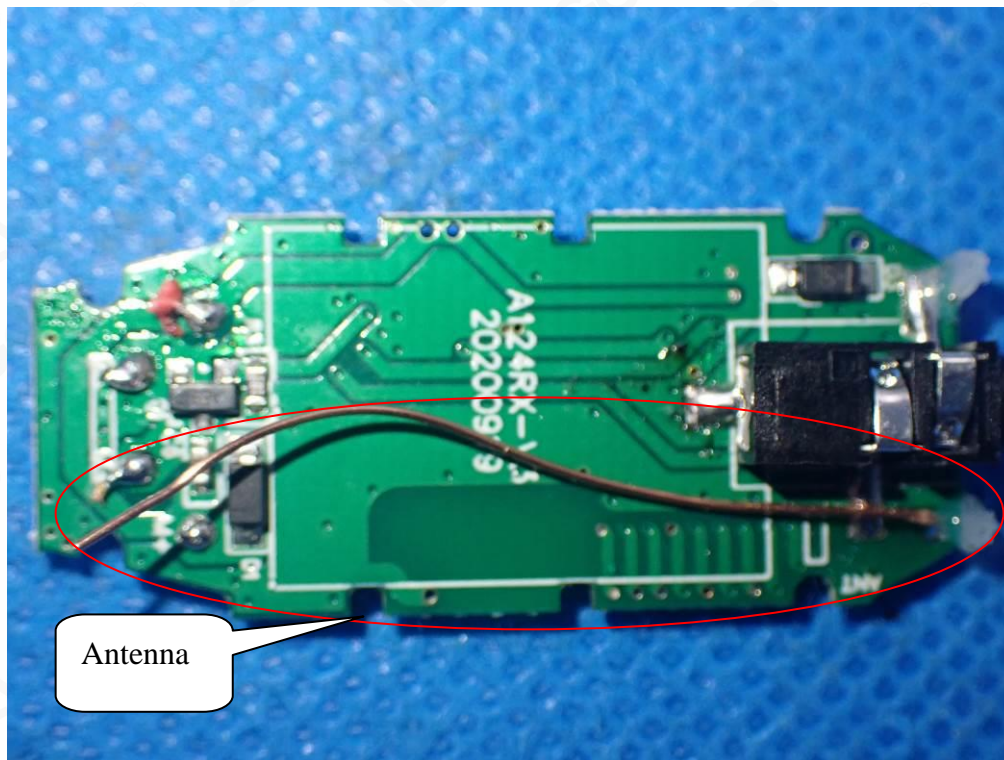


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INTERNAL VIEW-4 OF EUT



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