
FCC Test Report

Report No.: AGC10862210401FE03

FCC ID : 2AVVD-AC123
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Remote
BRAND NAME : A-OK
MODEL NAME : AC123-01, AC123-02, AC123-06, AC123-01D,
AC123-02D, AC123-06D
APPLICANT : Guangdong A-OKTECHNOLOGY GRAND
DEVELOPMENTCO, LTD
DATE OF ISSUE : Apr. 30, 2021
STANDARD(S) : FCC Part 15 Rules
REPORT VERSION : V1.0

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



Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|-----------------------|--------------------|--------------------|----------------------|-----------------|
| V1.0 | / | Apr. 30, 2021 | Valid | Initial Release |

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1. VERIFICATION OF CONFORMITY

| | |
|---------------------------------|---|
| Applicant | Guangdong A-OKTECHNOLOGY GRAND DEVELOPMENTCO, LTD |
| Address | Hexing Road South side Sanhe Economic Development Zone, Huiyang, Huizhou, China |
| Manufacturer | Guangdong A-OKTECHNOLOGY GRAND DEVELOPMENTCO, LTD |
| Address | Hexing Road South side Sanhe Economic Development Zone, Huiyang, Huizhou, China |
| Factory | Guangdong A-OKTECHNOLOGY GRAND DEVELOPMENTCO, LTD |
| Address | Hexing Road South side Sanhe Economic Development Zone, Huiyang, Huizhou, China |
| Product Designation | remote control |
| Brand Name | A-OK |
| Test Model | AC123-01 |
| Series Model | AC123-02, AC123-06, AC123-01D, AC123-02D, AC123-06D |
| Difference Description | All the series models are the same as the test model except for the model names, and the number of Indicator light. |
| Date of test | Apr. 02, 2021 to Apr. 30, 2021 |
| Deviation | None |
| Condition of Test Sample | Normal |
| Report Template | AGCRT-US-BR/RF (2013-03-01) |

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 C63.4 (2003) 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 15.231.

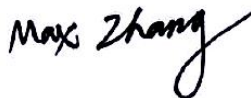
Prepared By



Kelly Cheng
(Project Engineer)

Apr. 30, 2021

Reviewed By



Max Zhang
(Reviewer)

Apr. 30, 2021

Approved By



Forrest Lei
(Authorized Officer)

Apr. 30, 2021

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| | |
|----------------------------|--|
| Operation Frequency | 433.92MHz |
| Field Strength(3m) | 433.92MHz: 74.62dBuV/m(PK)@3m 433.92MHz: 66.58dBuV/m(AV)@3m |
| Modulation | ASK |
| Number of channels | 1 |
| Hardware Version | V4.1 |
| Software Version | 200409B |
| Antenna Designation | PCB antenna |
| Antenna Gain | 0.1dBi |
| Power Supply | DC 3V by battery |

2.2. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AVVD-AC123** filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

2.3. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2010). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.4. SPECIAL ACCESSORIES

Refer to section 5.1.

2.5. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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: $U_c = \pm 2$ %

4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|---|-----------------------|
| 1 | Transmitting mode |
| Note: 1. The test modes can be supply by battery or adapter, 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 battery operated equipment, the equipment tests are performed using a new battery. 4.The EUT was transmitted manually. | |

5. SYSTEM TEST CONFIGURATION

5.1. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|-----------|-----------|---------------------|--------|
| 1 | Remote | A-OK | 2AVVD-AC123 | N/A |

5.2. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|----------------------|---|----------------|
| §15.203 | Antenna Requirement | Compliant |
| §15.231(a)(1) | Activated manually | Compliant |
| §15.231(b) | Average Factor | Compliant |
| 15.231(c) | -20dB Bandwidth | Compliant |
| §15.231(e) & §15.209 | Field Strength of Fundamental and Spurious Emission | Compliant |
| 15.207 | Conducted Emission | Not applicable |

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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 |

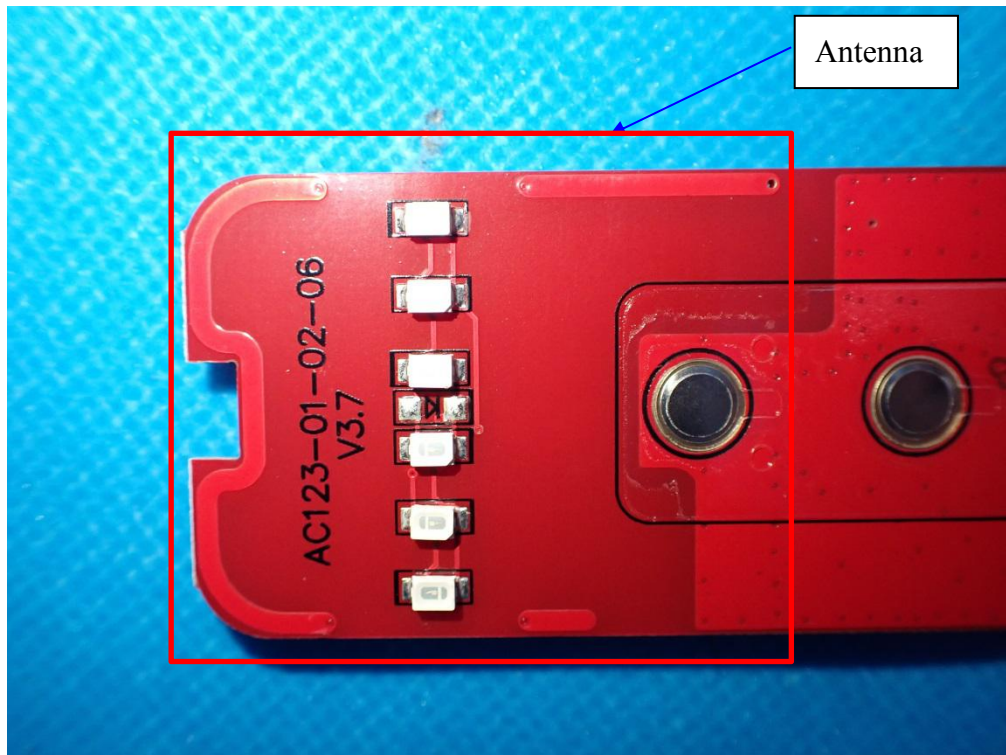
TEST EQUIPMENT OF RADIATED EMISSION TEST

| 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 |

7. ANTENNA REQUIREMENT

According to §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.

The EUT has PCB antenna, which accordance to the above sections, is considered sufficient to comply with the provisions of these sections. Please see EUT photo for details.



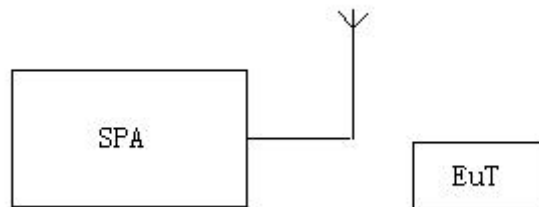
The requirements of section 15.203 are **FULFILLED**.

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.

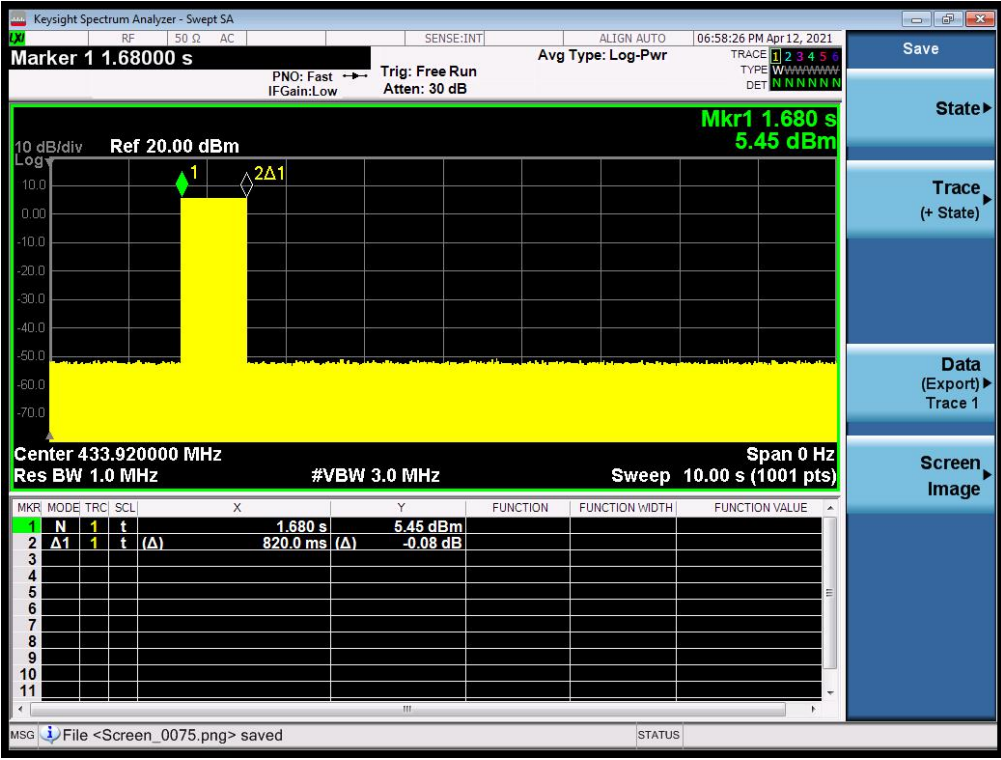
8.2 TEST SETUP



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) |
| 0.82 | 5.00 |



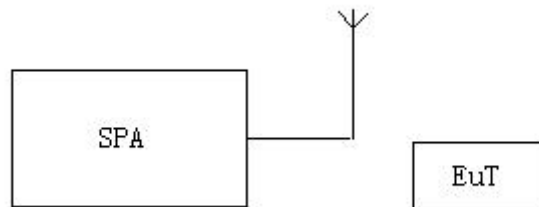
RESULT: PASS

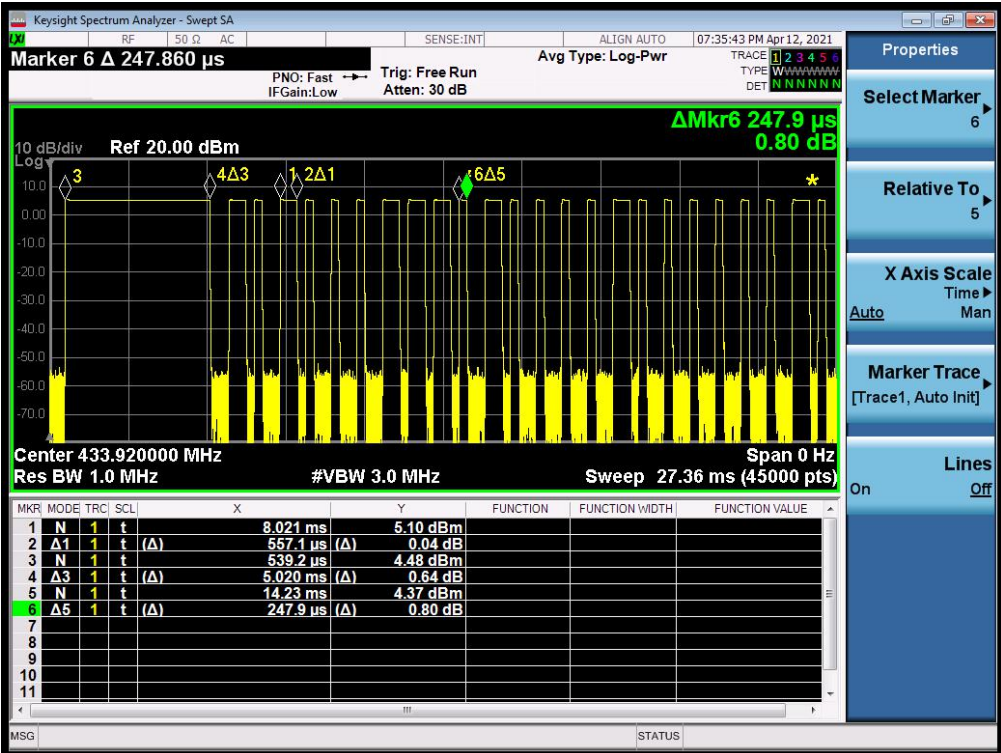
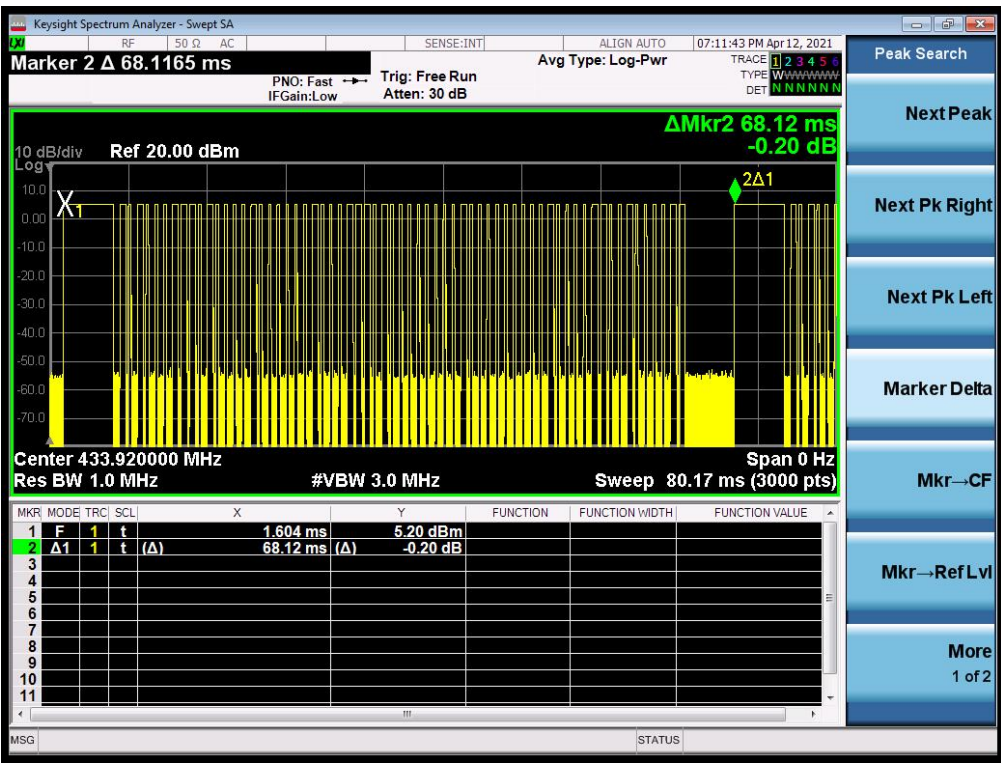
9. DUTY CYCLE CORRECTION FACTOR

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





10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 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 below 1GHz, use 120KHz RBW and $VBW \geq 3RBW$ for QP reading.
7. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
8. 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.
9. 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.
10. 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.
11. 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.
12. Only the worst case is reported.

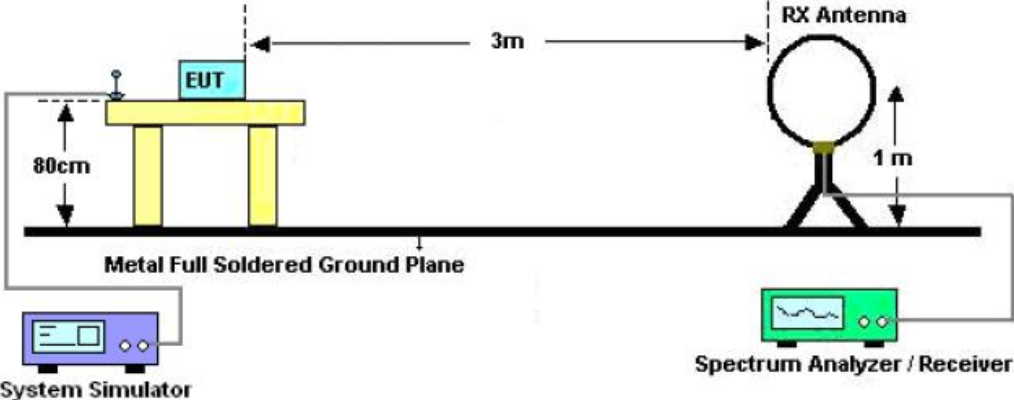
The following table is the setting of spectrum analyzer and receiver.

| 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 |

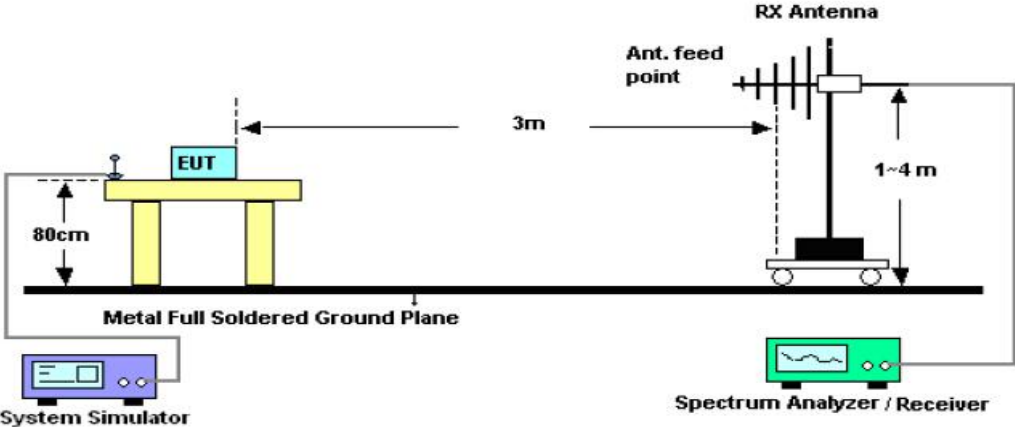
| Receiver Parameter | Setting |
|---------------------------|---------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RBW 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RBW 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RBW 120KHz for QP |

10.2. TEST SETUP

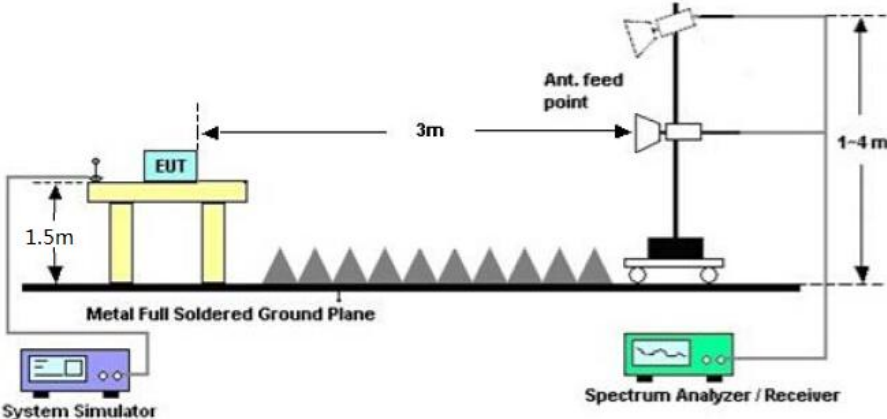
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

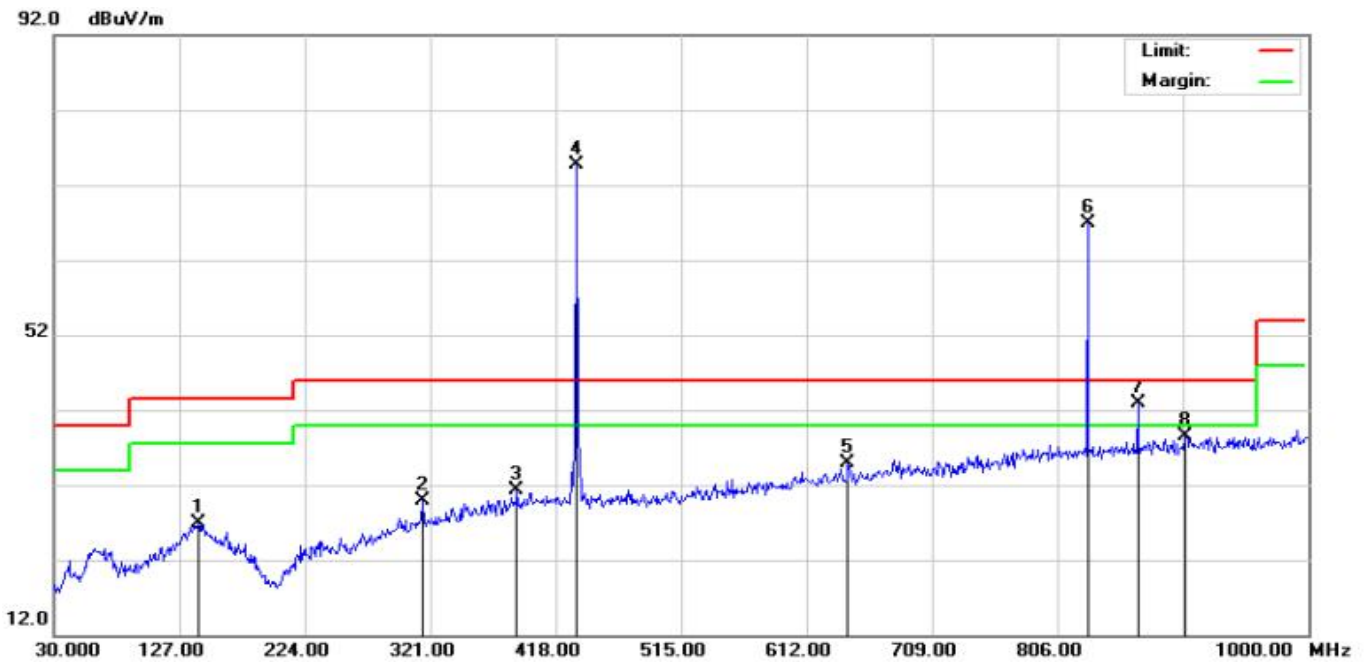


10.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter
RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ-Horizontal

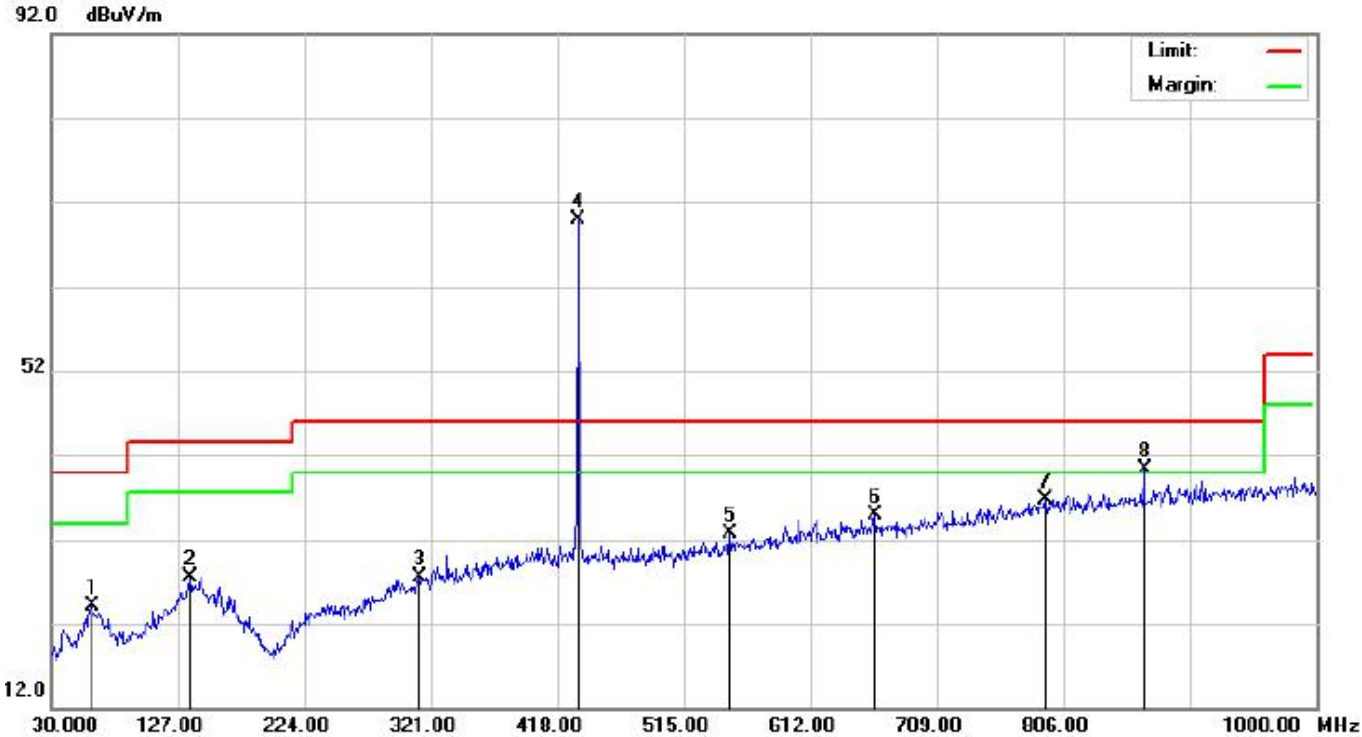


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1 | | 141.5500 | 5.79 | 21.07 | 26.86 | 43.50 | -16.64 | peak |
| 2 | | 315.1800 | 7.93 | 22.00 | 29.93 | 46.00 | -16.07 | peak |
| 3 | | 387.9300 | 6.71 | 24.56 | 31.27 | 46.00 | -14.73 | peak |
| 4 | | 433.9200 | 49.64 | 24.98 | 74.62 | 100.82 | -26.20 | peak |
| 5 | | 644.0100 | 7.43 | 27.48 | 34.91 | 46.00 | -11.09 | peak |
| 6 | | 868.2800 | 33.27 | 30.79 | 64.06 | 80.82 | -16.76 | peak |
| 7 | | 892.0800 | 11.60 | 31.29 | 42.89 | 46.00 | -3.11 | peak |
| 8 | | 904.9400 | 6.73 | 31.74 | 38.47 | 46.00 | -7.53 | peak |

AV data list

| Freq. [MHz] | Peak Level (dBuV/m) | Duty cycle factor(dB) | AV Level (dBuV/m) | FCC Limit (dBuV/m) | Margin (dB) | Polarization |
|----------------|------------------------|--------------------------|----------------------|-----------------------|----------------|--------------|
| 433.9200 | 74.62 | -8.04 | 66.58 | 80.82 | -14.24 | Horizontal |
| 868.2800 | 64.06 | -8.04 | 56.02 | 60.82 | -4.80 | Horizontal |

RADIATED EMISSION BELOW 1GHZ-Vertical

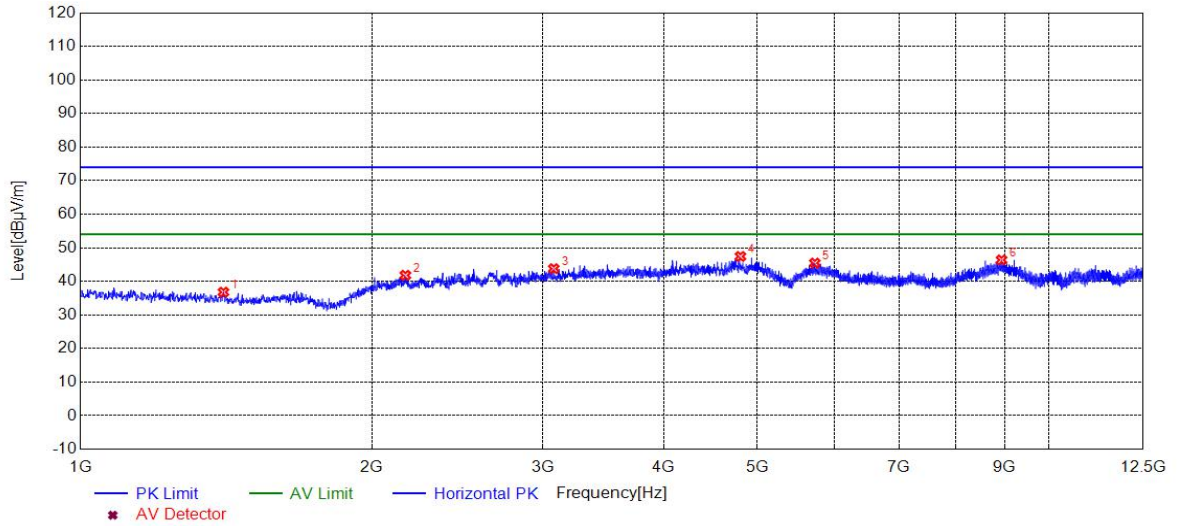


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1 | | 61.0399 | 6.40 | 17.79 | 24.19 | 40.00 | -15.81 | peak |
| 2 | | 136.7000 | 6.85 | 20.69 | 27.54 | 43.50 | -15.96 | peak |
| 3 | | 312.2699 | 5.62 | 21.90 | 27.52 | 46.00 | -18.48 | peak |
| 4 | | 433.9200 | 45.02 | 24.98 | 70.00 | 100.82 | -30.82 | peak |
| 5 | | 550.8899 | 6.70 | 25.99 | 32.69 | 46.00 | -13.31 | peak |
| 6 | | 661.4699 | 7.22 | 27.69 | 34.91 | 46.00 | -11.09 | peak |
| 7 | | 792.4199 | 6.39 | 30.24 | 36.63 | 46.00 | -9.37 | peak |
| 8 | | 868.0800 | 8.97 | 31.29 | 40.26 | 80.82 | -40.56 | peak |

AV data list

| Freq. [MHz] | Peak Level (dBuV/m) | Duty cycle factor(dB) | AV Level (dBuV/m) | FCC Limit (dBuV/m) | Margin (dB) | Polarization |
|----------------|------------------------|--------------------------|----------------------|-----------------------|----------------|--------------|
| 433.9200 | 70.00 | -8.04 | 61.96 | 80.82 | -18.86 | Vertical |
| 868.0800 | 40.26 | -8.04 | 32.22 | 60.82 | -28.60 | Vertical |

RADIATED EMISSION ABOVE 1GHZ-Horizontal



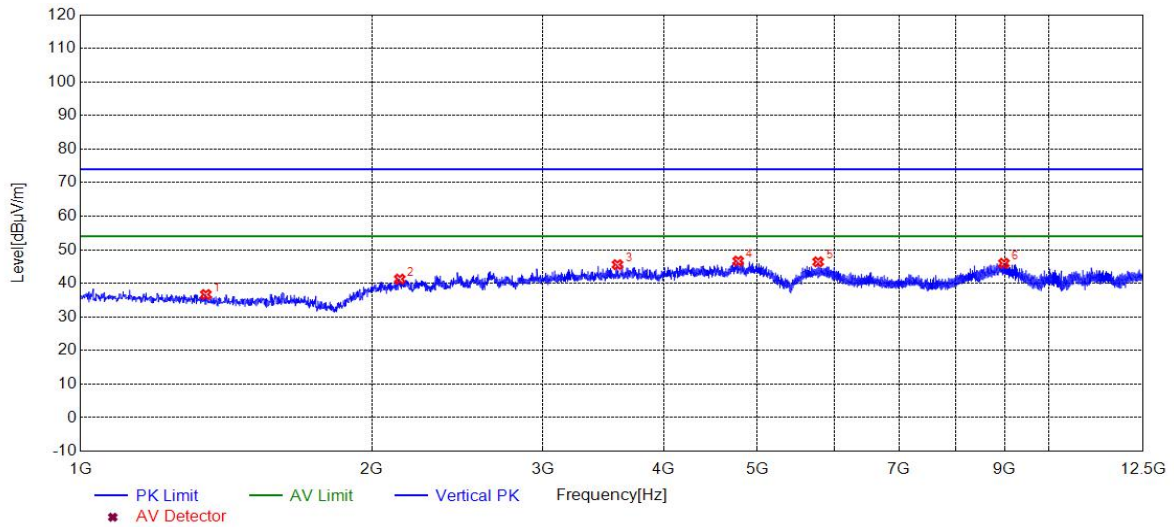
Peak data list

| PK Data List | | | | | | | | |
|--------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1404.8405 | 36.78 | -17.04 | 80.82 | 44.04 | 100 | 170 | Horizontal |
| 2 | 2165.0665 | 41.81 | -11.13 | 80.82 | 39.01 | 100 | 130 | Horizontal |
| 3 | 3080.5581 | 43.79 | -9.05 | 80.82 | 37.03 | 100 | 310 | Horizontal |
| 4 | 4801.1301 | 47.42 | -4.91 | 74.00 | 26.58 | 100 | 70 | Horizontal |
| 5 | 5730.4230 | 45.44 | -4.55 | 80.82 | 35.38 | 100 | 100 | Horizontal |
| 6 | 8931.1931 | 46.38 | 1.13 | 80.82 | 34.44 | 100 | 100 | Horizontal |

AV data list

| Freq. [MHz] | Peak Level (dBuV/m) | Duty cycle factor(dB) | AV Level (dBuV/m) | FCC Limit (dBuV/m) | Margin (dB) | Polarization |
|-------------|---------------------|-----------------------|-------------------|--------------------|-------------|--------------|
| 1404.8405 | 36.78 | -8.04 | 28.74 | 60.82 | 32.08 | Horizontal |
| 2165.0665 | 41.81 | -8.04 | 33.77 | 60.82 | 27.05 | Horizontal |
| 3080.5581 | 43.79 | -8.04 | 35.75 | 60.82 | 25.07 | Horizontal |
| 4801.1301 | 47.42 | -8.04 | 39.38 | 54.00 | 14.62 | Horizontal |
| 5730.4230 | 45.44 | -8.04 | 37.4 | 60.82 | 23.42 | Horizontal |
| 8931.1931 | 46.38 | -8.04 | 38.34 | 60.82 | 22.48 | Horizontal |

RADIATED EMISSION ABOVE 1GHZ-Vertical



Peak data list

| PK Data List | | | | | | | | |
|--------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1347.3347 | 36.68 | -16.98 | 74.00 | 37.32 | 100 | 230 | Vertical |
| 2 | 2136.3136 | 41.27 | -11.25 | 80.82 | 39.55 | 100 | 180 | Vertical |
| 3 | 3584.3084 | 45.57 | -7.41 | 80.82 | 35.25 | 100 | 70 | Vertical |
| 4 | 4775.8276 | 46.64 | -4.94 | 74.00 | 27.36 | 100 | 260 | Vertical |
| 5 | 5775.2775 | 46.41 | -4.41 | 80.82 | 34.41 | 100 | 180 | Vertical |
| 6 | 8980.6481 | 45.99 | 1.49 | 80.82 | 34.83 | 100 | 260 | Vertical |

AV data list

| Freq. [MHz] | Peak Level (dBuV/m) | Duty cycle factor(dB) | AV Level (dBuV/m) | FCC Limit (dBuV/m) | Margin (dB) | Polarization |
|-------------|---------------------|-----------------------|-------------------|--------------------|-------------|--------------|
| 1347.3347 | 36.68 | -8.04 | 28.64 | 54.00 | 25.36 | Vertical |
| 2136.3136 | 41.27 | -8.04 | 33.23 | 60.82 | 27.59 | Vertical |
| 3584.3084 | 45.57 | -8.04 | 37.53 | 60.82 | 23.29 | Vertical |
| 4775.8276 | 46.64 | -8.04 | 38.6 | 54.00 | 15.40 | Vertical |
| 5775.2775 | 46.41 | -8.04 | 38.37 | 60.82 | 22.45 | Vertical |
| 8980.6481 | 45.99 | -8.04 | 37.95 | 60.82 | 22.87 | Vertical |

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

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

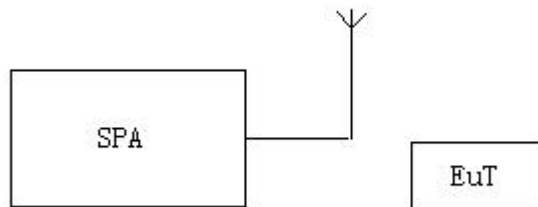
RESULT: PASS

11. BANDWIDTH

11.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:
Centre frequency = Operation Frequency
RBW=0.3KHz
VBW=1.0KHz
Span: 60kHz
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



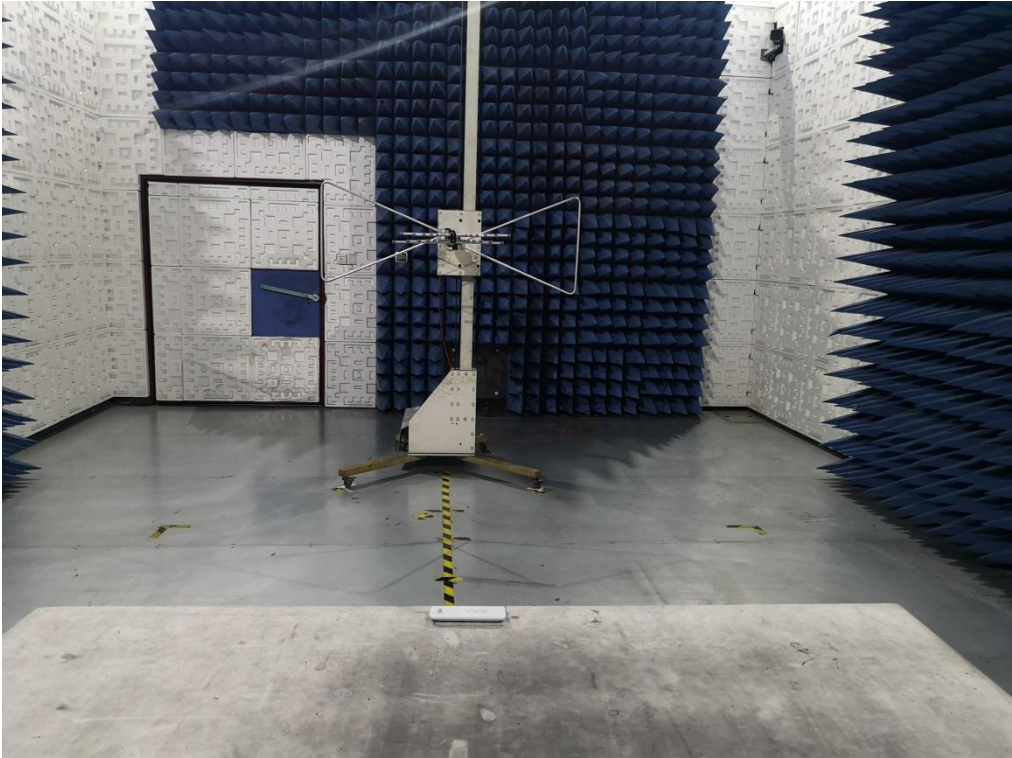
11.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter

| | | |
|---|-----------|--------|
| -20dB bandwidth | LIMIT | RESULT |
| 16.34KHz | 1084.8KHz | Pass |
| Note: Limit= Operation Frequency x0.25% | | |



APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC RADIATED EMISSION TEST SETUP-BELOW 1GHz



FCC RADIATED EMISSION TEST SETUP-ABOVE 1GHz



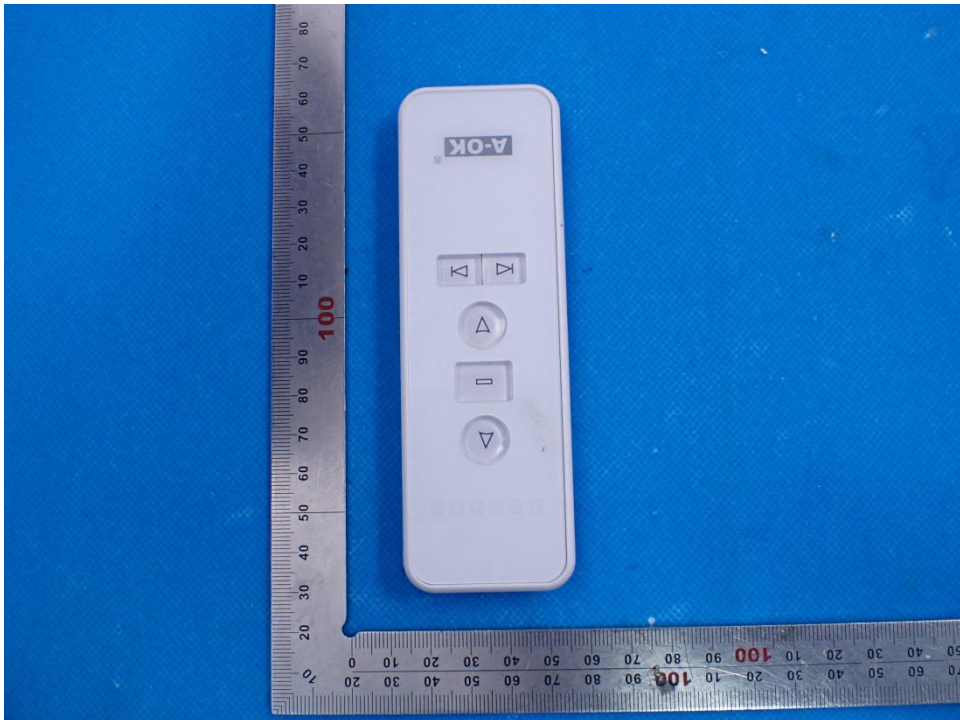
APPENDIX B: PHOTOGRAPHS OF EUT

Test Model:

ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



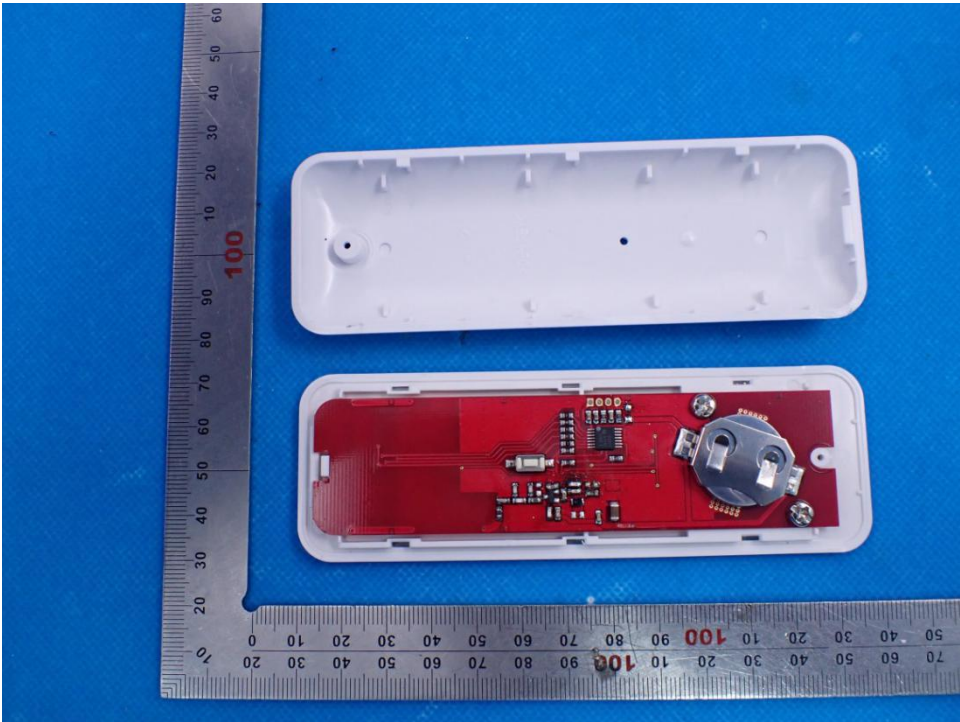
LEFT VIEW OF EUT



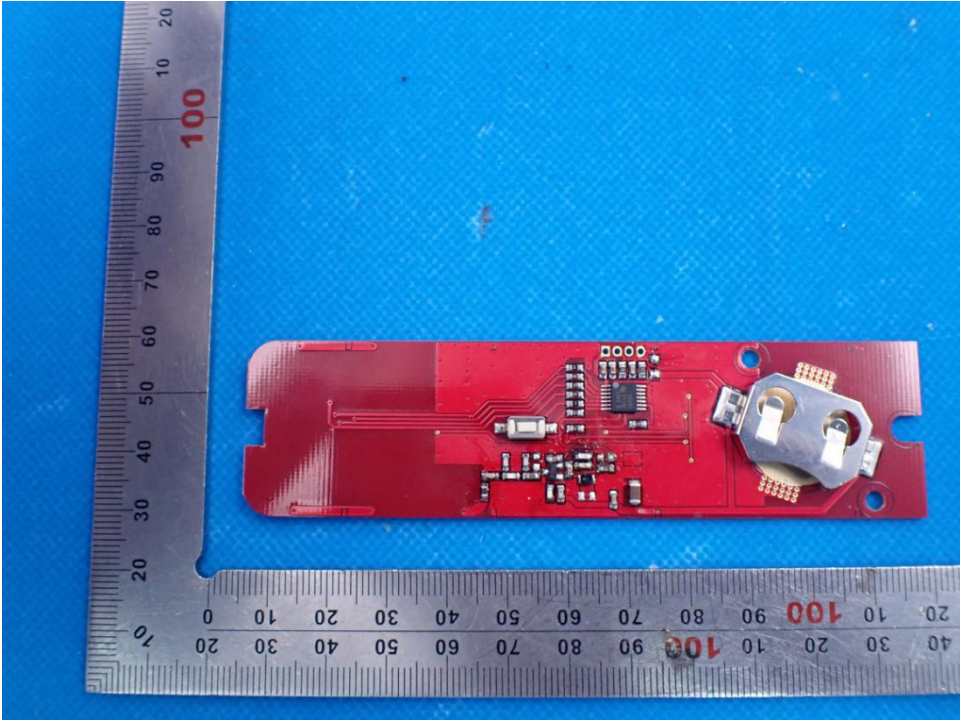
RIGHT VIEW OF EUT



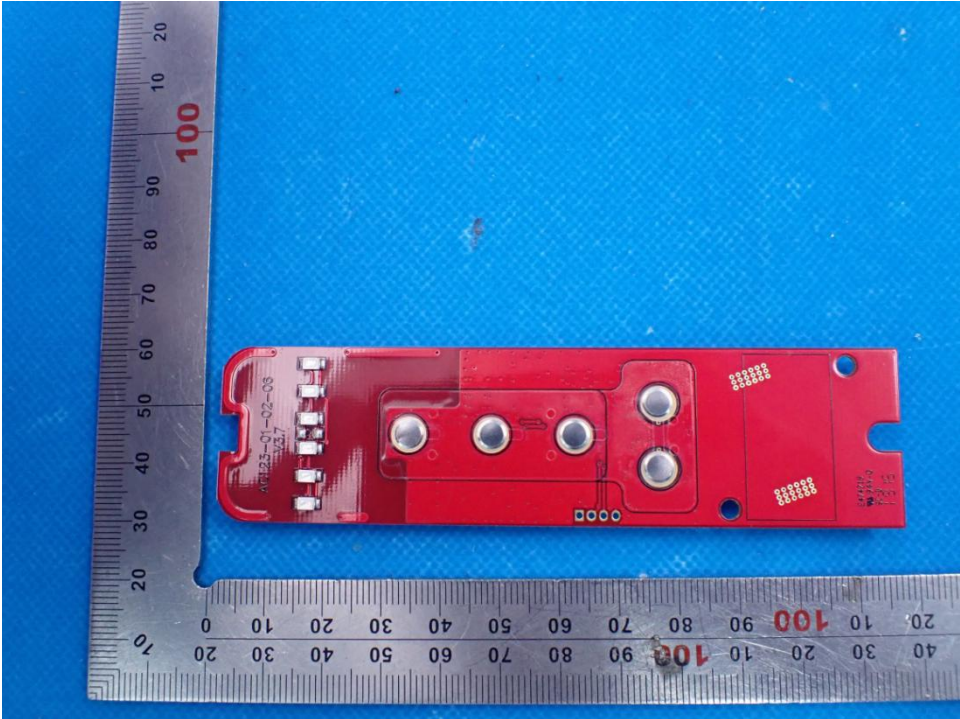
OPEN VIEW OF EUT



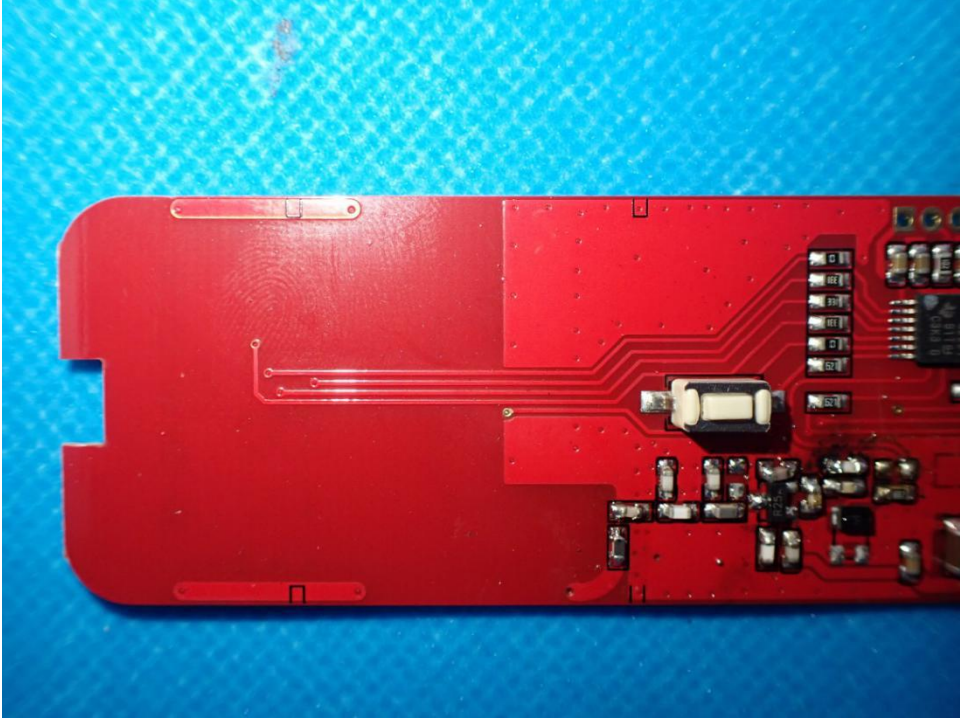
INTERNAL VIEW-1 OF EUT



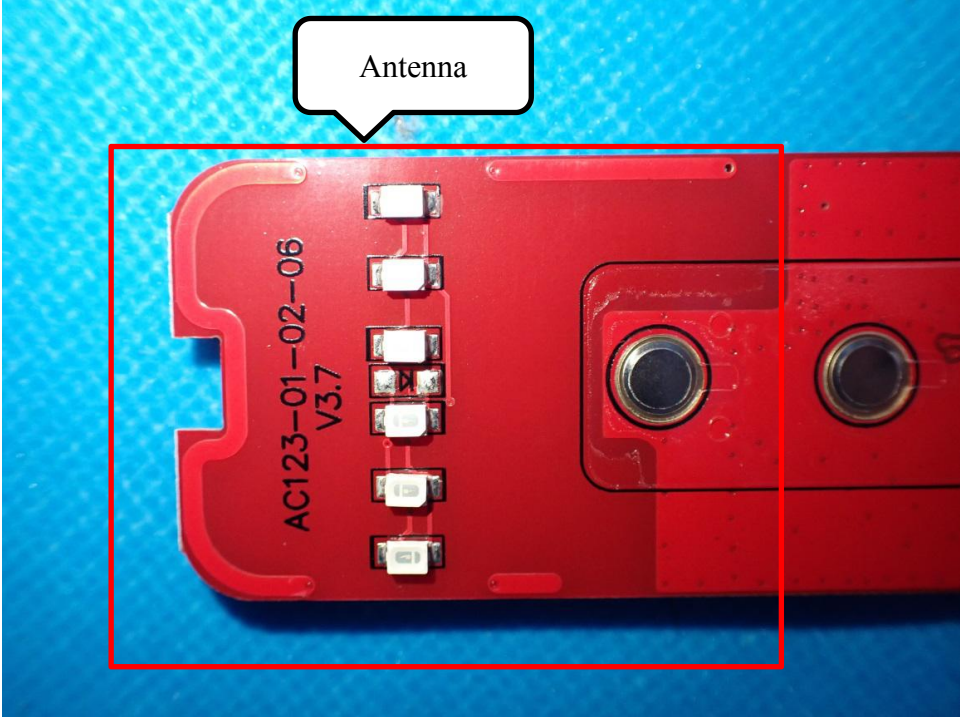
INTERNAL VIEW-2 OF EUT



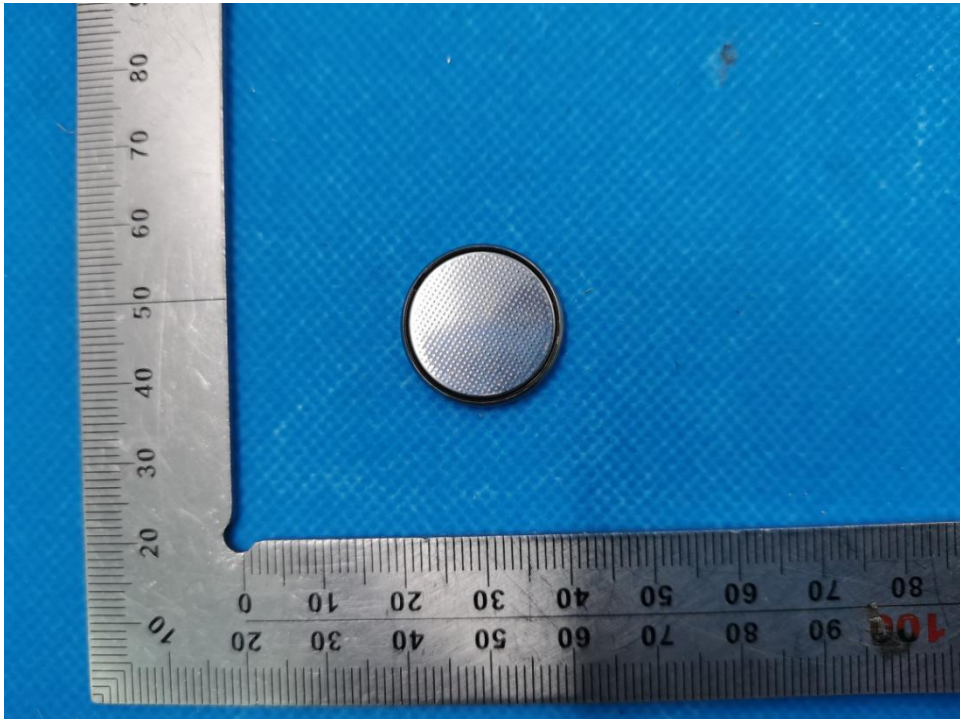
INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



VIEW OF BATTERY

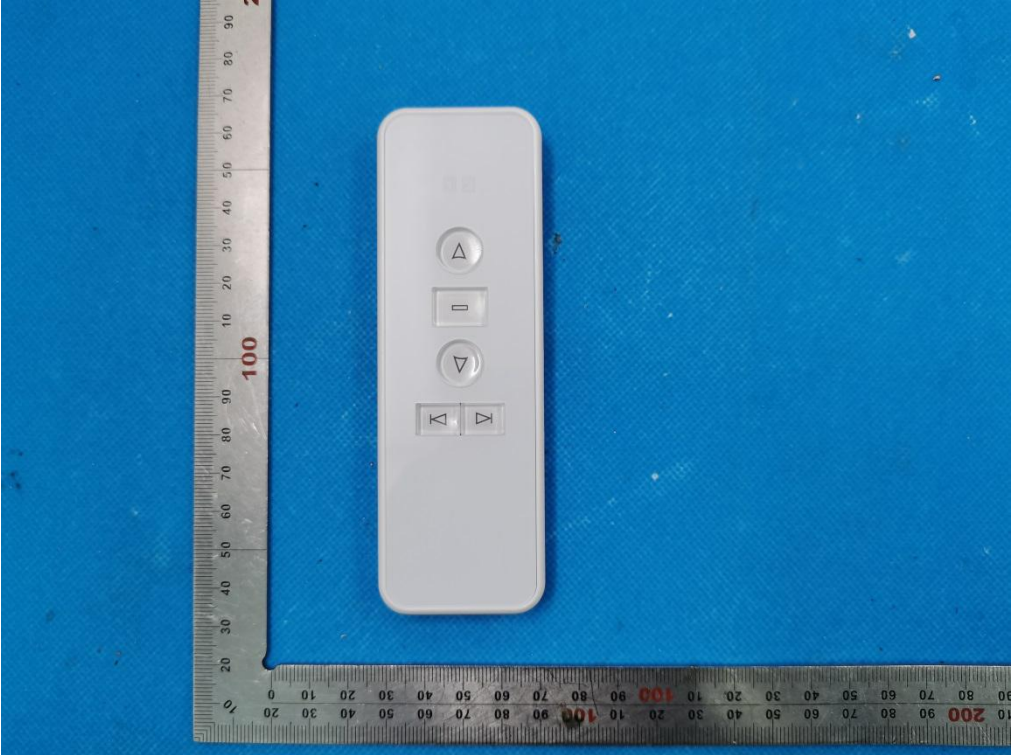


Series Model:

ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



----END OF REPORT----