



FCC TEST REPORT

FCC PART 15 SUBPART C 15.231

Test report
On Behalf of
AQUATIC AV
For
RF6 Talk

Model No.: RF6 Talk, RF615

FCC ID: WBQRF6TALK

Prepared for : **AQUATIC AV**
282 KINNEY DRIVE, SAN JOSE, CA 95112, USA

Prepared By : **Shenzhen HUAKE Testing Technology Co., Ltd.**
1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai
Street, Bao'an District, Shenzhen City, China

Date of Test: **Dec. 24, 2018 ~ Dec. 26, 2018**
Date of Report: **Dec. 26, 2018**
Report Number: **HK1812272018E**



TEST RESULT CERTIFICATION

Applicant's name : AQUATIC AV

Address..... : 282 KINNEY DRIVE, SAN JOSE, CA 95112, USA

Manufacture's Name : AQUATIC AV

Address..... : China Hui Zho Shi Boluo Shi Wan Luan Gangbu Xiewu Industrial Zone

Product description

Trade Mark: AQUATIC AV

Product name..... : RF6 Talk

Model and/or type reference .. : RF6 Talk, RF615

Difference description RF6 Talk is same as RF615 and will be used as marketing purpose

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..... : Dec. 24, 2018 ~ Dec. 26, 2018

Date of Issue : Dec. 26, 2018

Test Result..... : **Pass**

Testing Engineer :

(Gary Qian)

Technical Manager :

(Eden Hu)

Authorized Signatory :

(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) | Manually operated transmitter | Compliant |
| §15.35(c) | Average Factor | N/A |
| §15.231(b) & §15.209 | Field Strength of Fundamental and Spurious Emission | Compliant |
| §15.231(c) | Bandwidth | Compliant |

1.2 TEST FACILITY

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

Address : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park,
Fuhai Street, Bao'an District, Shenzhen City, 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

| | |
|---------------------|----------------------|
| Operation Frequency | 433.4MHz |
| Field Strength(3m) | 73.59dBuV/m(Peak)@3m |
| Modulation | ASK |
| Number of channels | 1 |
| Hardware Version | BM20SPK01 |
| Software Version | 20171124 |
| Antenna Designation | PCB antenna |
| Antenna Gain | 2dBi |
| Power Supply | DC 3.7V by battery |

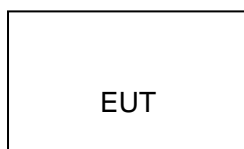


2.2 OPERATION OF EUT DURING TESTING

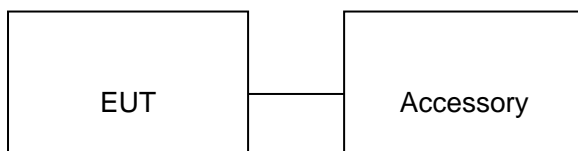
| NO. | TEST MODE DESCRIPTION |
|---|-----------------------|
| 1 | Transmitting mode |
| <p>Note:</p> <p>1. All the test modes can be supply by new battery, and only the data of the worst case recorded in the test report. There are typically two EUTs submitted for the measurements, one unmodified sample for timing issues (deactivation), one modified sample (~ 100% duty cycle) for all other measurements</p> <p>2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.</p> | |

2.3 DESCRIPTION OF TEST SETUP

Radiated Emission Configure :



Conducted Emission Configure :



| Item | Equipment | Model No. | ID or Specification | Remark |
|------|-----------|-----------|---------------------|---------|
| 1 | Adapter | NTR-S01 | DC 5V | Support |



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 |

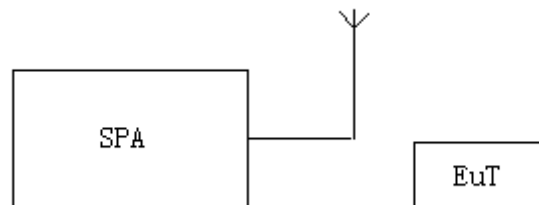


3. PROVISION FOR MOMENTARY OPERATION

3.1 MEASUREMENT PROCEDURE

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

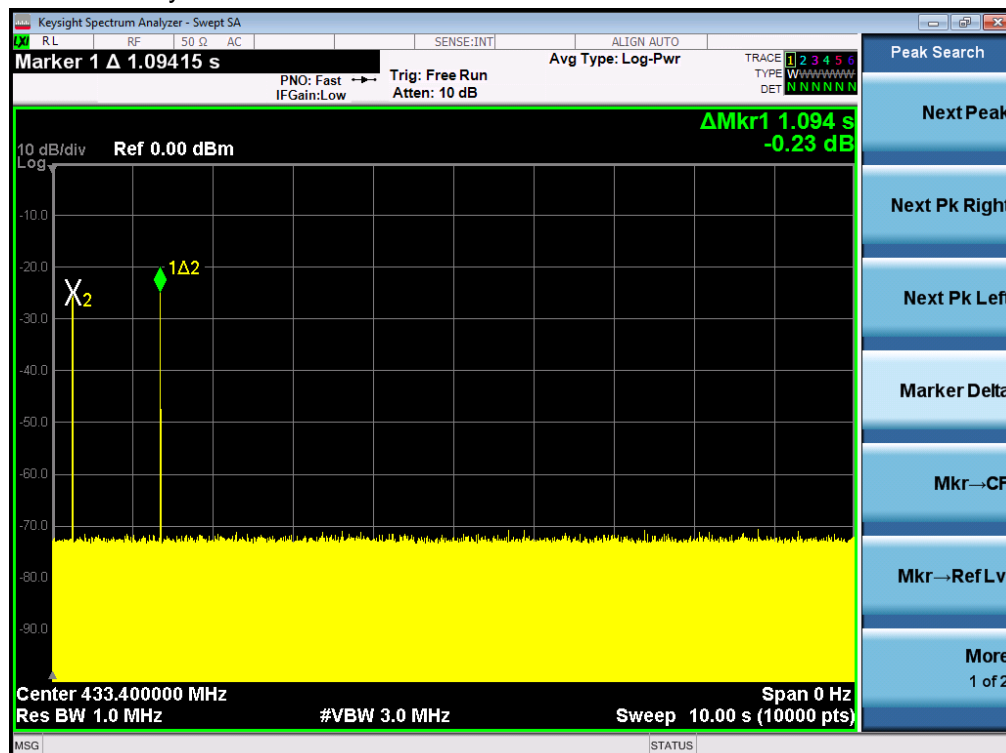


3.3 TEST RESULT

Test Mode: Press once

| The time of stopping transmission | Limit (s) |
|-----------------------------------|-----------|
| 1.094 | 5.00 |

The EUT will automatically deactivate the transmission within 5 sec after the button is released.

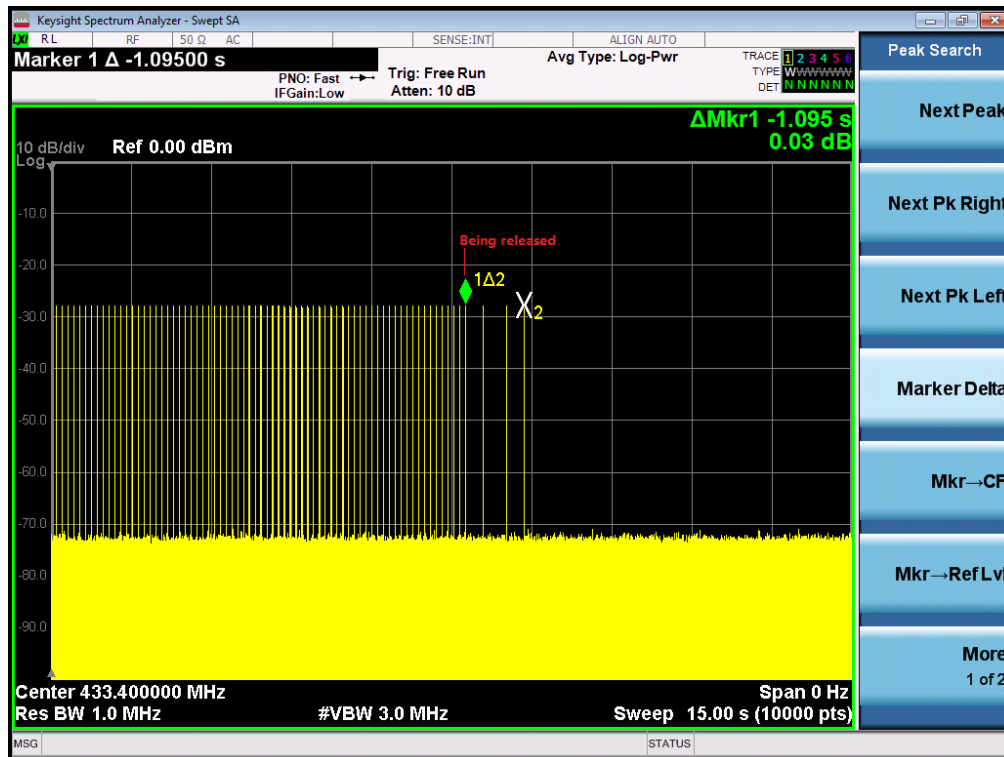




Test Mode: Press and hold

| The time of stopping transmission | Limit (s) |
|-----------------------------------|-----------|
| 1.095 | 5.00 |

The EUT will automatically deactivate the transmission within 5 sec after the button is released.



RESULT: PASS

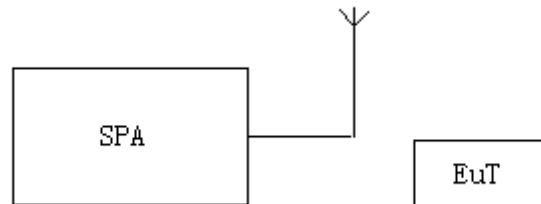


4. DUTY CYCLE CORRECTION FACTOR

4.1 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.

4.2 TEST SETUP



4.3 TEST RESULT

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



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.



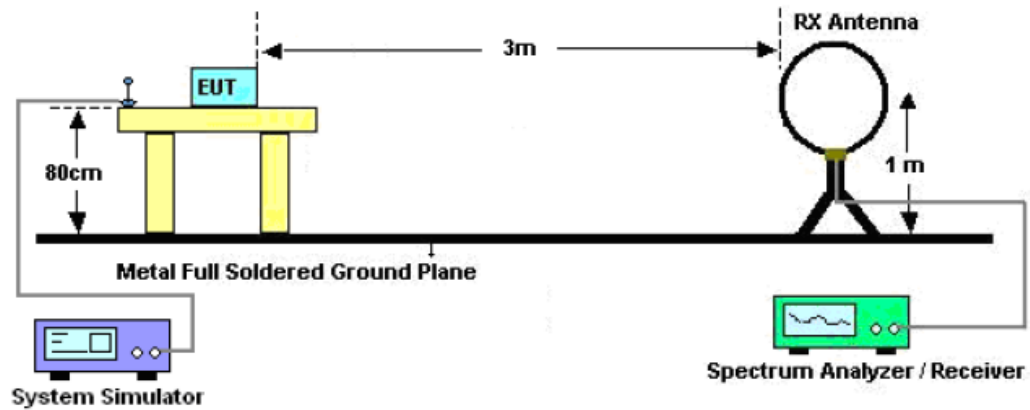
The following table is the setting of spectrum analyzer and receiver.

| 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 |

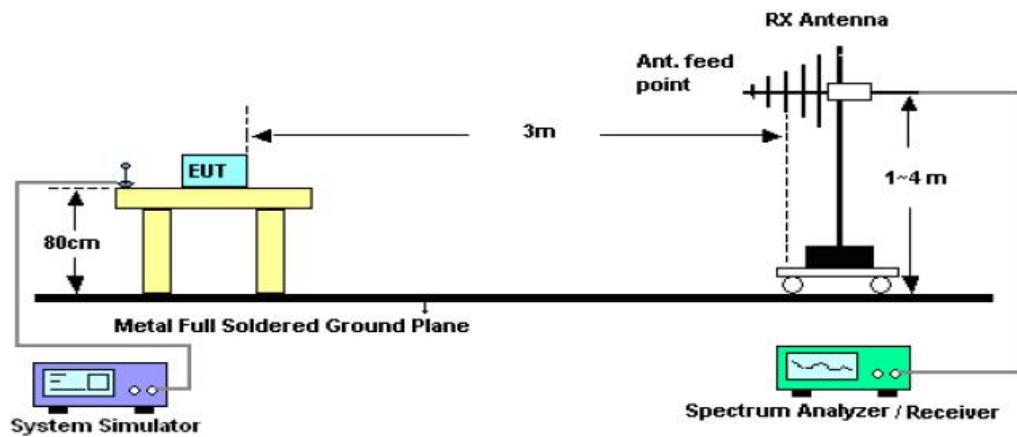
| Receiver Parameter | Setting |
|-----------------------|---------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RBW 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RBW 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RBW 120KHz for QP |

5.2. TEST SETUP

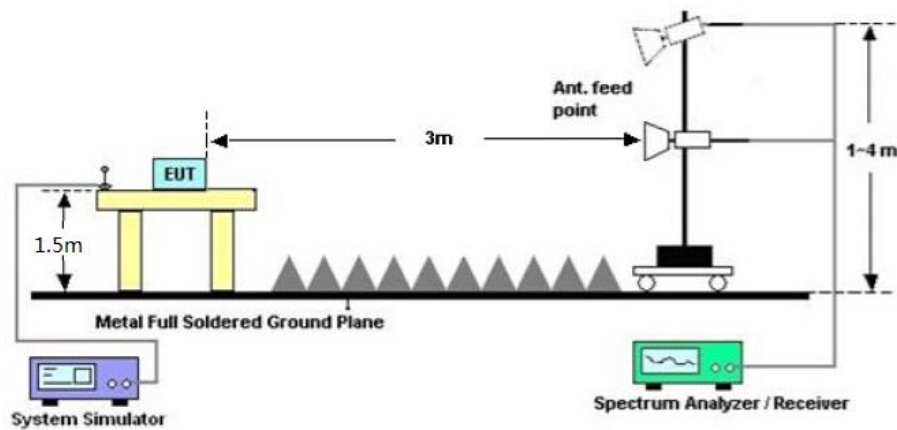
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





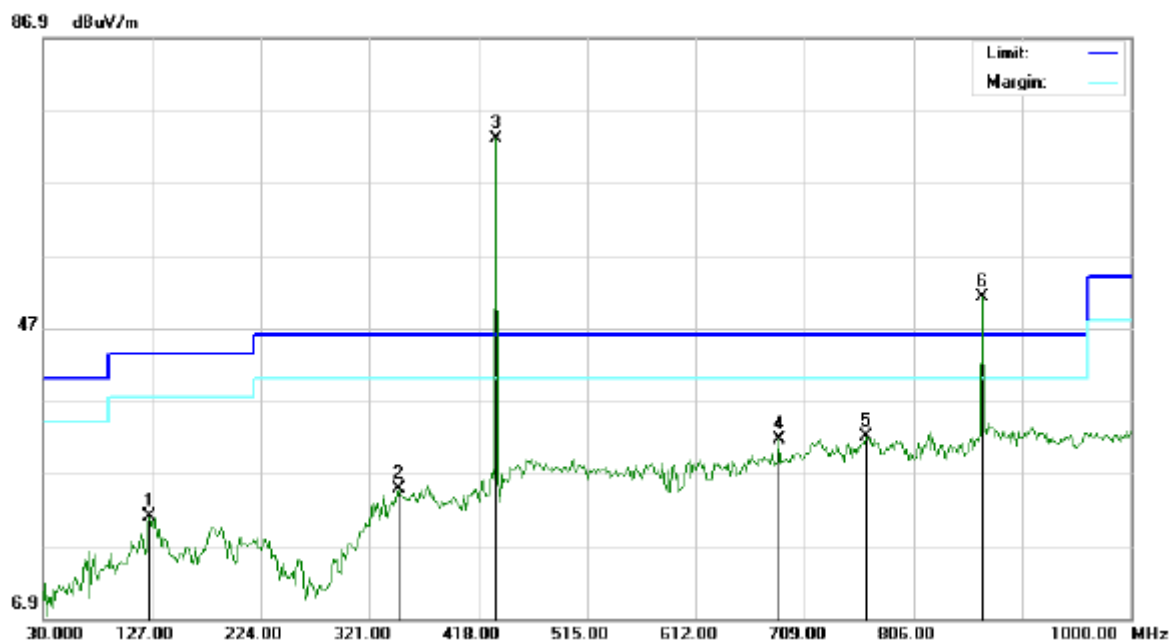
5.3. TEST RESULT

Test Mode: EUT @ 433.4MHz for RF Transmitter

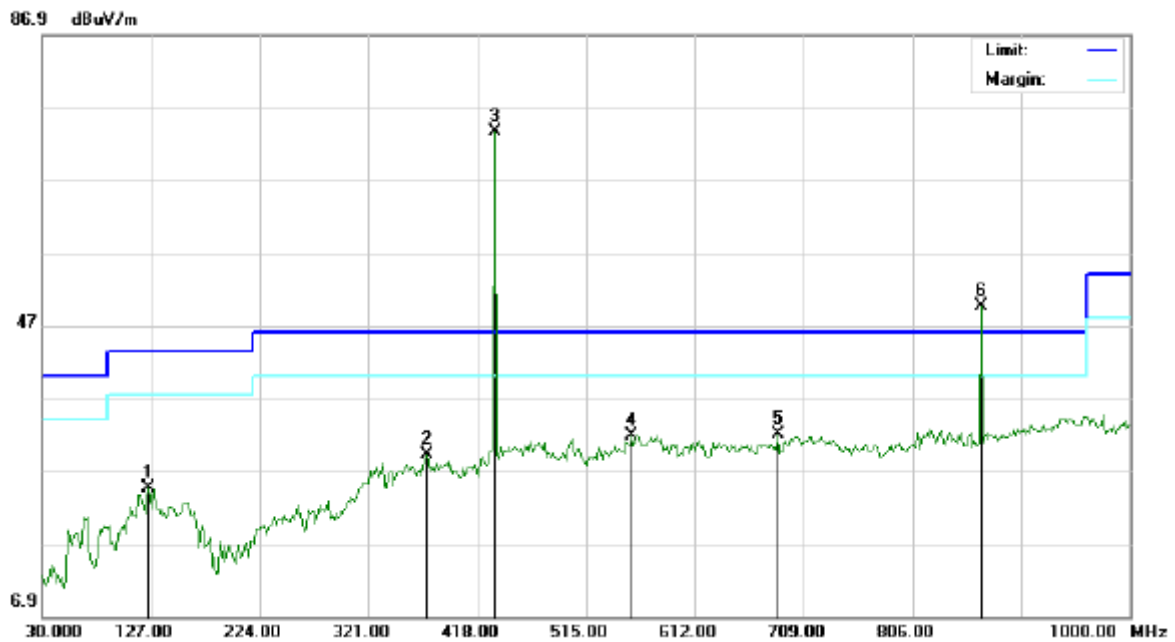
RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHZ-Horizontal



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 125.3833 | 12.67 | 8.37 | 21.04 | 43.50 | -22.46 | peak | | | |
| 2 | | 346.8666 | 6.22 | 18.53 | 24.75 | 46.00 | -21.25 | peak | | | |
| 3 | * | 433.4005 | 52.98 | 20.11 | 73.09 | 80.80 | -7.71 | peak | | | |
| 4 | | 686.3665 | 6.72 | 24.85 | 31.57 | 46.00 | -14.43 | peak | | | |
| 5 | | 763.9663 | 5.25 | 26.82 | 32.07 | 46.00 | -13.93 | peak | | | |
| 6 | X | 866.8332 | 23.38 | 27.76 | 51.14 | 60.80 | -9.66 | peak | | | |

**RADIATED EMISSION BELOW 1GHZ-Vertical**

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 125.3833 | 16.17 | 8.37 | 24.54 | 43.50 | -18.96 | peak | | | |
| 2 | | 372.7330 | 10.41 | 18.89 | 29.30 | 46.00 | -16.70 | peak | | | |
| 3 | * | 433.4005 | 53.48 | 20.11 | 73.59 | 80.80 | -7.21 | peak | | | |
| 4 | | 555.4166 | 9.16 | 22.62 | 31.78 | 46.00 | -14.22 | peak | | | |
| 5 | | 686.3665 | 7.22 | 24.85 | 32.07 | 46.00 | -13.93 | peak | | | |
| 6 | X | 866.8332 | 21.88 | 27.76 | 49.64 | 60.80 | -11.16 | peak | | | |

RESULT: PASS

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

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

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



6. FCC LINE CONDUCTED EMISSION TEST

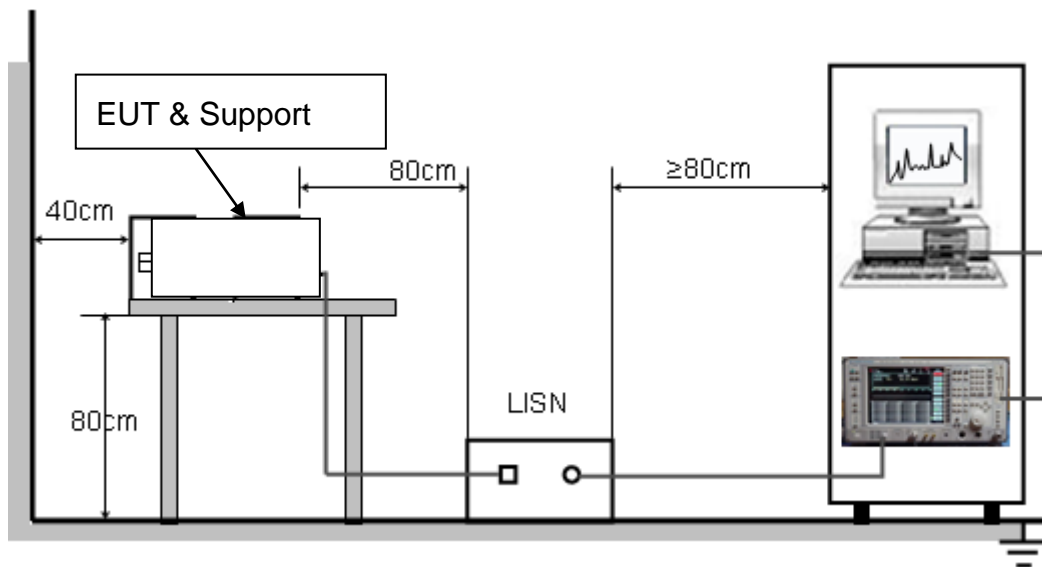
6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|----------------|
| | Q.P.(dBuV) | Average(dBuV) |
| 150kHz~500kHz | 66-56 | 56-46 |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

6.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





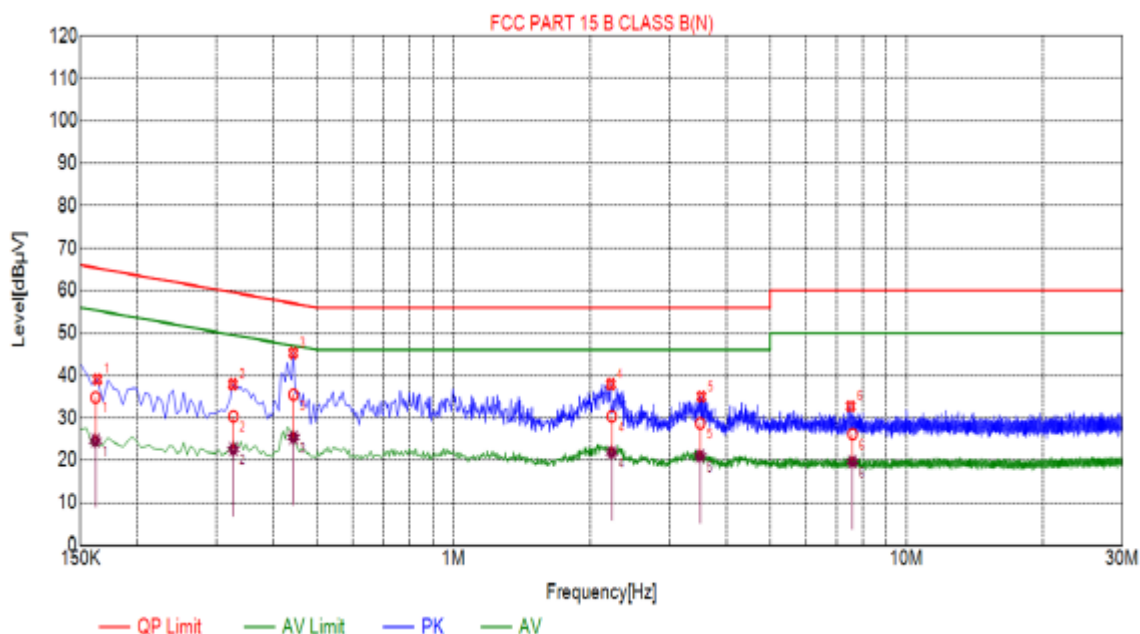
6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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.

6.4. 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 -2dB 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.

**6.5. 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 | 0.1635 | 39.06 | 9.98 | 65.28 | 26.22 | PK |
| 2 | 0.3255 | 37.94 | 10.05 | 59.57 | 21.63 | PK |
| 3 | 0.4425 | 45.28 | 10.05 | 57.01 | 11.73 | PK |
| 4 | 2.2245 | 37.97 | 10.17 | 56.00 | 18.03 | PK |
| 5 | 3.5250 | 35.04 | 10.25 | 56.00 | 20.96 | PK |
| 6 | 7.5300 | 32.75 | 10.17 | 60.00 | 27.25 | PK |

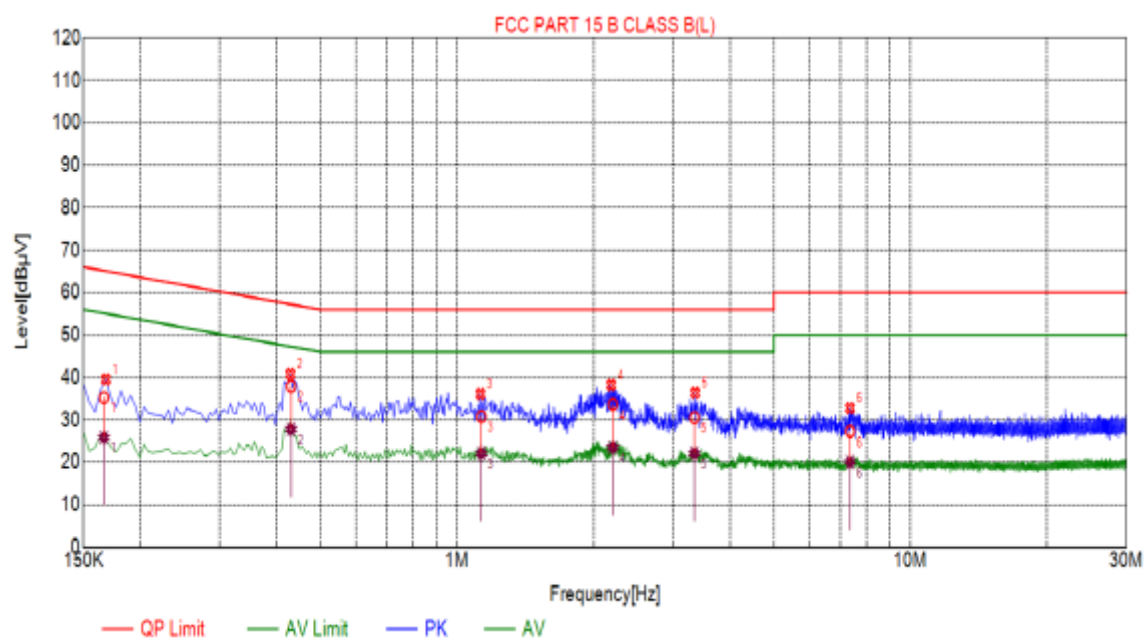
Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] |
|-----|----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|
| 1 | 0.1619 | 9.99 | 34.81 | 65.37 | 30.56 | 24.67 | 55.37 | 30.70 |
| 2 | 0.3264 | 10.05 | 30.35 | 59.54 | 29.19 | 22.66 | 49.54 | 26.88 |
| 3 | 0.4430 | 10.05 | 35.55 | 57.01 | 21.46 | 25.39 | 47.01 | 21.62 |
| 4 | 2.2354 | 10.17 | 30.37 | 56.00 | 25.63 | 21.90 | 46.00 | 24.10 |
| 5 | 3.5046 | 10.25 | 28.76 | 56.00 | 27.24 | 21.00 | 46.00 | 25.00 |
| 6 | 7.6028 | 10.17 | 26.20 | 60.00 | 33.80 | 19.68 | 50.00 | 30.32 |

RESULT: PASS



LINE CONDUCTED EMISSION TEST-N



Suspected List

| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Detector |
|-----|----------------|-----------------|----------------|-----------------|----------------|----------|
| 1 | 0.1680 | 39.54 | 10.01 | 65.06 | 25.52 | PK |
| 2 | 0.4290 | 40.78 | 10.05 | 57.27 | 16.49 | PK |
| 3 | 1.1265 | 36.11 | 10.08 | 56.00 | 19.89 | PK |
| 4 | 2.1885 | 38.24 | 10.16 | 56.00 | 17.76 | PK |
| 5 | 3.3540 | 36.38 | 10.24 | 56.00 | 19.62 | PK |
| 6 | 7.3635 | 32.78 | 10.18 | 60.00 | 27.22 | 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 | 0.1683 | 10.00 | 35.32 | 65.14 | 29.82 | 25.84 | 55.14 | 29.30 |
| 2 | 0.4303 | 10.05 | 37.98 | 57.25 | 19.29 | 27.78 | 47.25 | 19.47 |
| 3 | 1.1320 | 10.08 | 30.83 | 56.00 | 25.17 | 22.17 | 46.00 | 23.83 |
| 4 | 2.2086 | 10.17 | 33.67 | 56.00 | 22.33 | 23.47 | 46.00 | 22.53 |
| 5 | 3.3398 | 10.24 | 30.55 | 56.00 | 25.45 | 22.16 | 46.00 | 23.84 |
| 6 | 7.3689 | 10.18 | 27.29 | 60.00 | 32.71 | 20.06 | 50.00 | 29.94 |

RESULT: PASS

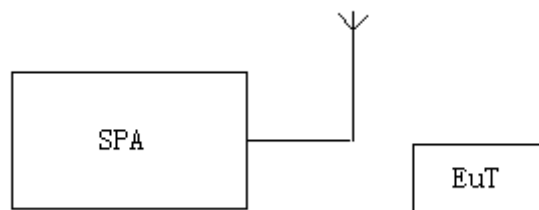


7. BANDWIDTH

7.1. 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.

7.2. TEST SETUP





7.3. TEST RESULT

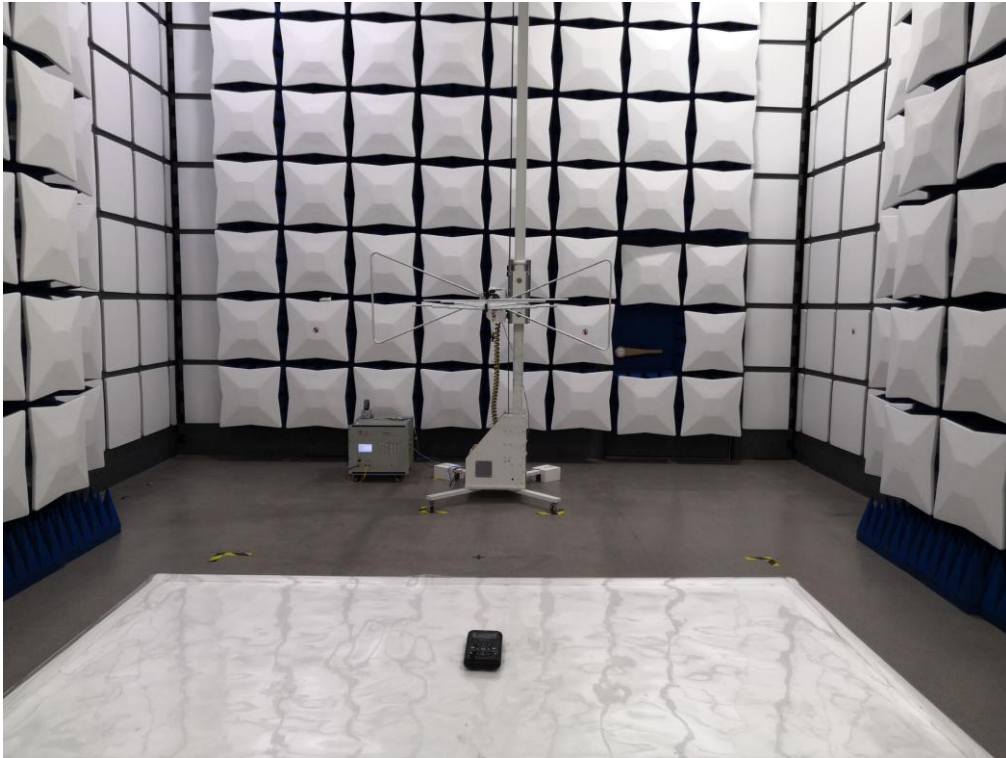
Test Mode: EUT @ 433.4MHz for RF Transmitter

| | | |
|---|-----------|--------|
| -20dB bandwidth | LIMIT | RESULT |
| 310.4kHz | 1083.5KHz | Pass |
| Note: Limit= Operation Frequency \times 0.25% | | |



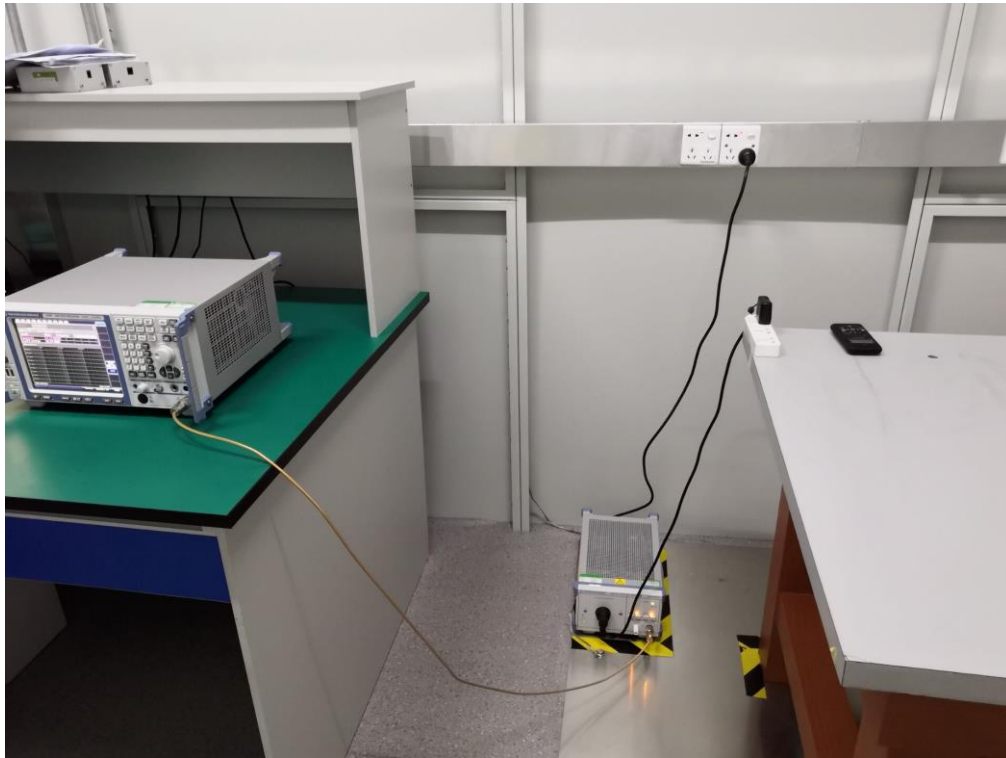
8. PHOTOGRAPH OF TEST

Radiated Emission





Conducted Emission





9. PHOTOGRAPH OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT





FRONT VIEW OF EUT



BACK VIEW OF EUT





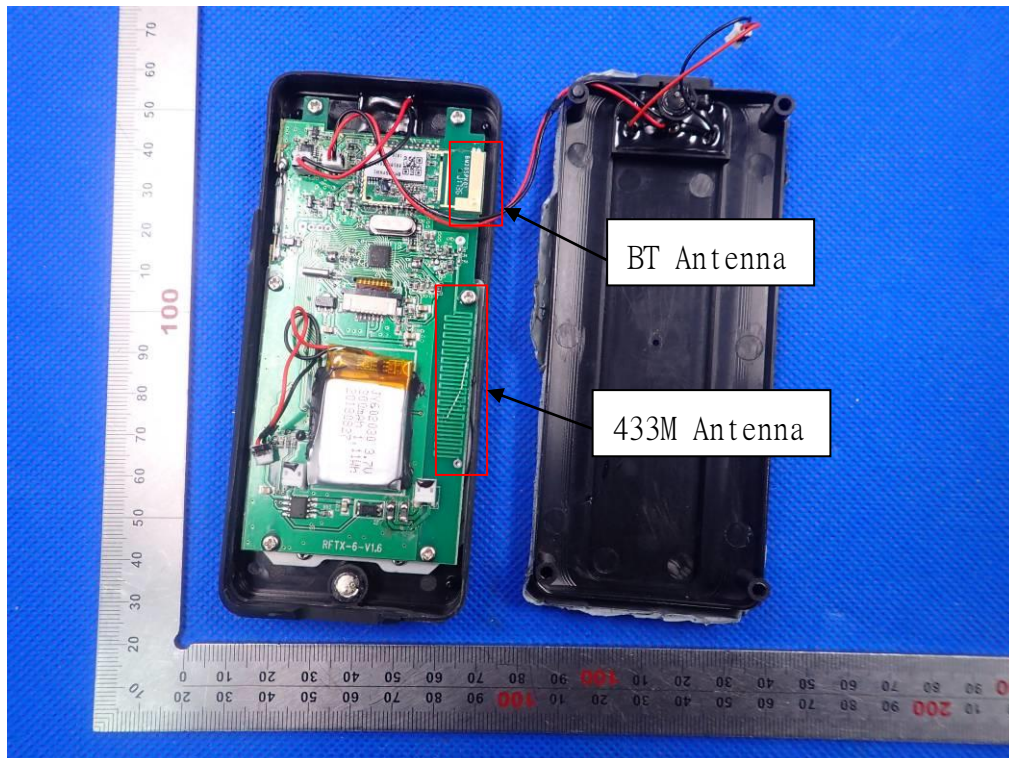
LEFT VIEW OF EUT



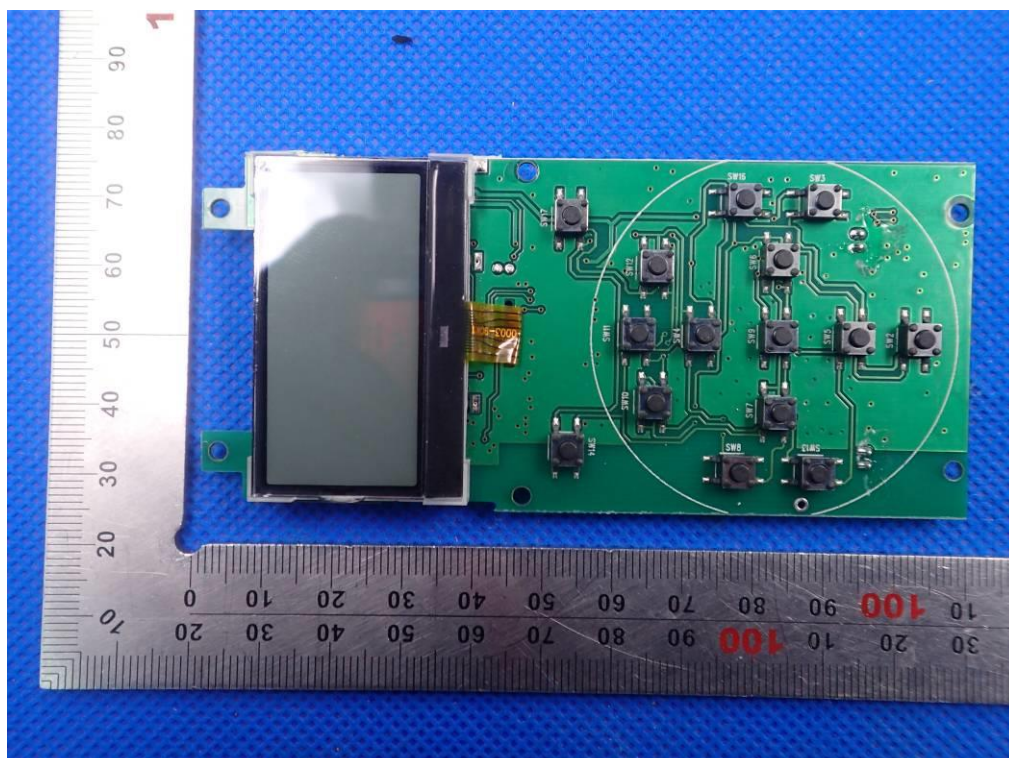
RIGHT VIEW OF EUT



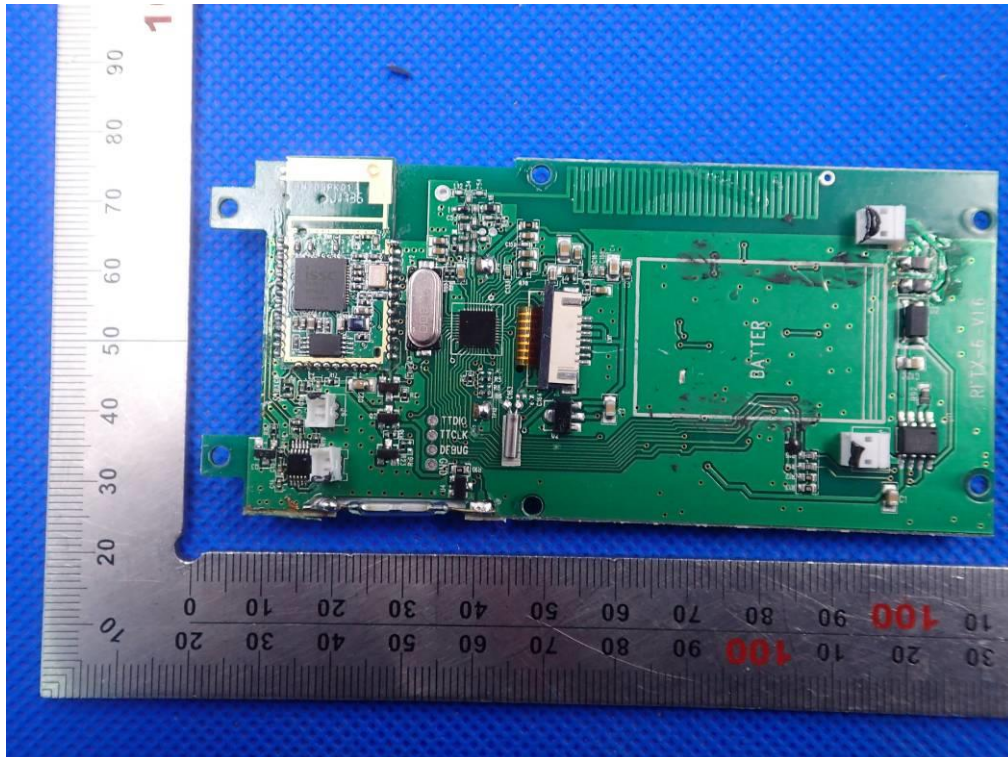
OPEN VIEW-1 OF EUT



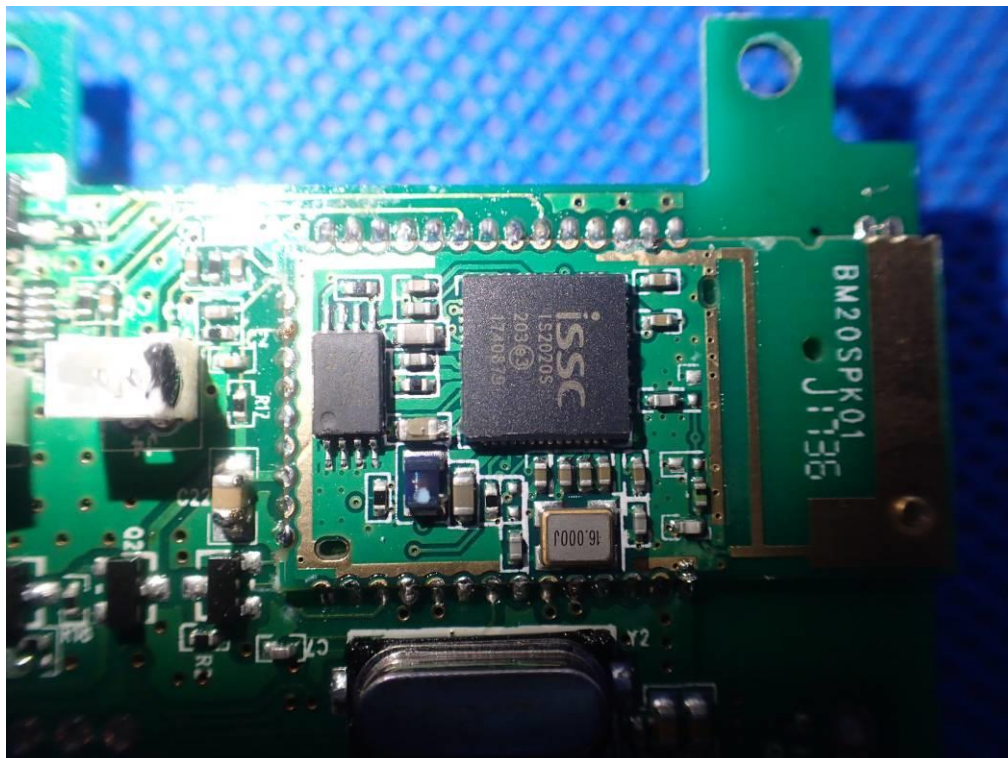
INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT

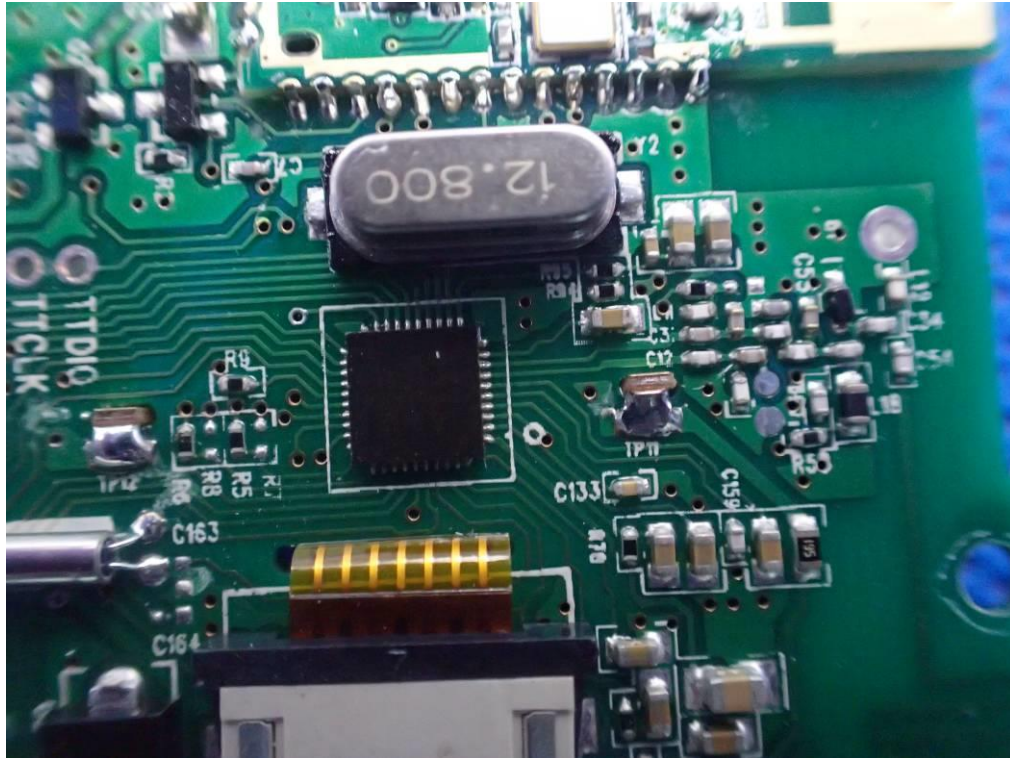


INTERNAL VIEW-3 OF EUT





INTERNAL VIEW-4 OF EUT



----END OF REPORT----