



# **FCC RADIO TEST REPORT-BT**

## **FCC ID: 2AHJX-JR1601**

**Product :** Jimu Robot

**Trade Name :** Jimu Robot

**Model Name :** JR1601

**Serial Model :** JR0401, JR0402, JR0403, JR0404, JR0405,  
JR0406, JR0407, JR0408, JR0409, JR0601,  
JR0602, JR0603, JR0604, JR0605, JR0606,  
JR0607, JR0608, JR0609, JR0701, JR0702,  
JR0703, JR1001, JR1002, JR1003, JR1201,  
JR1202, JR1203, JR1602, JR1603, JRS101,  
JRP01, JRU01, JRU02, JRS201

**Report No. :** NTEK-2016NT02224381F2-02

### **Prepared for**

UBTECH ROBOTICS CORP

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# TEST RESULT CERTIFICATION

**Applicant's name** ..... : UBTECH ROBOTICS CORP  
**Address** ..... : 16th & 22nd Floor, Block C1, Nanshan I Park, No.1001 Xueyuan Road, Nanshan District, Shenzhen City, PR. CHINA  
**Manufacture's Name**..... : UBTECH ROBOTICS CORP BAOAN BRANCH  
**Address** ..... : 1-2/F, Building B, Huilongda Industry Park, Shilongzai, Shiyan Street, Baoan District, Shenzhen City

## Product description

**Product name** ..... : Jimu Robot  
**Model and/or type reference** : JR1601  
**Serial Model** : JR0401, JR0402, JR0403, JR0404, JR0405, JR0406, JR0407, JR0408, JR0409, JR0601, JR0602, JR0603, JR0604, JR0605, JR0606, JR0607, JR0608, JR0609, JR0701, JR0702, JR0703, JR1001, JR1002, JR1003, JR1201, JR1202, JR1203, JR1602, JR1603, JRS101, JRP01, JRU01, JRU02, JRS201

**Standards** ..... : FCC Part15.247: 01 Oct. 2015

**Test procedure** ..... ANSI C63.10-2013

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test** ..... :

**Date (s) of performance of tests** ..... : 05 May. 2016 ~23 May. 2016

**Date of Issue**..... : 29 Jul. 2016

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

**Testing Engineer** : Eileen Liu.  
(Eileen Liu)

**Technical Manager** : Jason Chen  
(Jason Chen)

**Authorized Signatory** : Sam. Chen  
(Sam Chen)

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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C |                            |          |        |
|---------------------------------|----------------------------|----------|--------|
| Standard Section                | Test Item                  | Judgment | Remark |
| 15.207                          | Conducted Emission         | PASS     |        |
| 15.247(c)                       | Radiated Spurious Emission | PASS     |        |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

## 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

## 1.2 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 %.

| No. | Item                         | Uncertainty               |
|-----|------------------------------|---------------------------|
| 1   | Conducted Emission Test      | $\pm 1.38\text{dB}$       |
| 2   | RF power,conducted           | $\pm 0.16\text{dB}$       |
| 3   | Spurious emissions,conducted | $\pm 0.21\text{dB}$       |
| 4   | All emissions,radiated(<1G)  | $\pm 4.68\text{dB}$       |
| 5   | All emissions,radiated(>1G)  | $\pm 4.89\text{dB}$       |
| 6   | Temperature                  | $\pm 0.5^{\circ}\text{C}$ |
| 7   | Humidity                     | $\pm 2\%$                 |

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                        |                                                                                                                                                                                                                                                                             |                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Equipment              | Jimu Robot                                                                                                                                                                                                                                                                  |                                                                           |
| Trade Name             | Jimu Robot                                                                                                                                                                                                                                                                  |                                                                           |
| Model Name             | JR1601                                                                                                                                                                                                                                                                      |                                                                           |
| Serial Model           | JR0401, JR0402, JR0403, JR0404, JR0405, JR0406, JR0407, JR0408, JR0409, JR0601, JR0602, JR0603, JR0604, JR0605, JR0606, JR0607, JR0608, JR0609, JR0701, JR0702, JR0703, JR1001, JR1002, JR1003, JR1201, JR1202, JR1203, JR1602, JR1603, JRS101, JRP01, JRU01, JRU02, JRS201 |                                                                           |
| Model Difference       | All the model are the same circuit and RF module, except the model name.                                                                                                                                                                                                    |                                                                           |
| Product Description    | The EUT is a Jimu Robot                                                                                                                                                                                                                                                     |                                                                           |
|                        | Operation Frequency:                                                                                                                                                                                                                                                        | 2402~2480 MHz                                                             |
|                        | Modulation Type:                                                                                                                                                                                                                                                            | BT(1Mbps): GFSK<br>BT EDR(2Mbps): $\pi/4$ -DQPSK<br>BT EDR(3Mbps): 8-DPSK |
|                        | Bit Rate of Transmitter                                                                                                                                                                                                                                                     | 1Mbps/2Mbps/3Mbps                                                         |
|                        | Number Of Channel                                                                                                                                                                                                                                                           | 79 CH                                                                     |
|                        | Antenna Designation:                                                                                                                                                                                                                                                        | Please see Note 3.                                                        |
| Channel List           | Please refer to the Note 2.                                                                                                                                                                                                                                                 |                                                                           |
| Adapter                | Adapter-1:<br>Mode: DSA-20PFE-12 FUS 096200<br>Input: 100-240V~, 50/60Hz, 0.7A<br>Output: 9.6V---, 2A<br>Adapter-2:<br>Mode: PS1012-096HIB 100<br>Input: 100-240V~, 50/60Hz, 0.4A<br>Output: 9.6V---, 1.0A                                                                  |                                                                           |
| Battery                | DC 7.4V, 1200mAh                                                                                                                                                                                                                                                            |                                                                           |
| Connecting I/O Port(s) | Please refer to the User's Manual                                                                                                                                                                                                                                           |                                                                           |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

| Channel List |                 |         |                 |         |                 |
|--------------|-----------------|---------|-----------------|---------|-----------------|
| Channel      | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 00           | 2402            | 27      | 2429            | 54      | 2456            |
| 01           | 2403            | 28      | 2430            | 55      | 2457            |
| 02           | 2404            | 29      | 2431            | 56      | 2458            |
| 03           | 2405            | 30      | 2432            | 57      | 2459            |
| 04           | 2406            | 31      | 2433            | 58      | 2460            |
| 05           | 2407            | 32      | 2434            | 59      | 2461            |
| 06           | 2408            | 33      | 2435            | 60      | 2462            |
| 07           | 2409            | 34      | 2436            | 61      | 2463            |
| 08           | 2410            | 35      | 2437            | 62      | 2464            |
| 09           | 2411            | 36      | 2438            | 63      | 2465            |
| 10           | 2412            | 37      | 2439            | 64      | 2466            |
| 11           | 2413            | 38      | 2440            | 65      | 2467            |
| 12           | 2414            | 39      | 2441            | 66      | 2468            |
| 13           | 2415            | 40      | 2442            | 67      | 2469            |
| 14           | 2416            | 41      | 2443            | 68      | 2470            |
| 15           | 2417            | 42      | 2444            | 69      | 2471            |
| 16           | 2418            | 43      | 2445            | 70      | 2472            |
| 17           | 2419            | 44      | 2446            | 71      | 2473            |
| 18           | 2420            | 45      | 2447            | 72      | 2474            |
| 19           | 2421            | 46      | 2448            | 73      | 2475            |
| 20           | 2422            | 47      | 2449            | 74      | 2476            |
| 21           | 2423            | 48      | 2450            | 75      | 2477            |
| 22           | 2424            | 49      | 2451            | 76      | 2478            |
| 23           | 2425            | 50      | 2452            | 77      | 2479            |
| 24           | 2426            | 51      | 2453            | 78      | 2480            |
| 25           | 2427            | 52      | 2454            |         |                 |
| 26           | 2428            | 53      | 2455            |         |                 |

3.

Table for Filed Antenna

| Ant . | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE       |
|-------|-------|------------|--------------|-----------|------------|------------|
| 1     | N/A   | N/A        | PCB Antenna  | N/A       | 1          | BT Antenna |

## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-------------|
| Mode 1       | CH00        |
| Mode 2       | CH39        |
| Mode 3       | CH78        |
| Mode 4       | normal link |

| For Conducted Emission |             |
|------------------------|-------------|
| Final Test Mode        | Description |
| Mode 4                 | normal link |

| For Radiated Emission |             |
|-----------------------|-------------|
| Final Test Mode       | Description |
| Mode 1                | CH00        |
| Mode 2                | CH39        |
| Mode 3                | CH78        |

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3)The data rate was set in 3Mbps for radiated emission due to the highest RF output power.

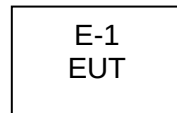
## 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

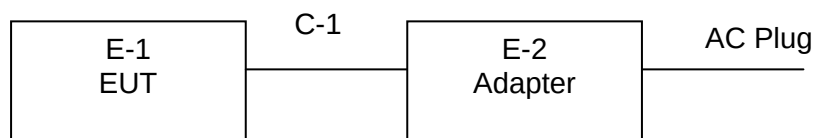
| Test software Version | Test program: Broadcom |          |          |
|-----------------------|------------------------|----------|----------|
| Frequency             | 2402 MHz               | 2441 MHz | 2480 MHz |
| Parameters(1/2/3Mbps) | DEF                    | DEF      | DEF      |

## 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



## 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment  | Mfr/Brand  | Model/Type No.             | Series No. | Note |
|------|------------|------------|----------------------------|------------|------|
| E-1  | Jimu Robot | Jimu Robot | JR1601                     | N/A        | EUT  |
| E-2  | Adapter-1  | N/A        | DSA-20PFE-12<br>FUS 096200 | N/A        |      |
| E-2  | Adapter-2  | N/A        | PS1012-096HIB<br>100       | N/A        |      |
|      |            |            |                            |            |      |

| Item | Shielded Type | Ferrite Core | Length | Note     |
|------|---------------|--------------|--------|----------|
| C-1  | Metal wire    | NO           | 1.2m   | USB Line |
|      |               |              |        |          |
|      |               |              |        |          |
|      |               |              |        |          |
|      |               |              |        |          |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

## 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation Test equipment

| Item | Kind of Equipment  | Manufacturer | Type No.    | Serial No.   | Last calibration | Calibrated until | Calibration period |
|------|--------------------|--------------|-------------|--------------|------------------|------------------|--------------------|
| 1    | Spectrum Analyzer  | Agilent      | E4407B      | MY45108040   | 2015.07.06       | 2016.07.05       | 1 year             |
| 2    | Test Receiver      | R&S          | ESPI        | 101318       | 2015.06.07       | 2016.06.06       | 1 year             |
| 3    | Bilog Antenna      | TESEQ        | CBL6111D    | 31216        | 2015.07.06       | 2016.07.05       | 1 year             |
| 4    | 50Ω Coaxial Switch | Anritsu      | MP59B       | 6200264416   | 2015.06.07       | 2016.06.06       | 1 year             |
| 5    | Spectrum Analyzer  | ADVANTEST    | R3132       | 150900201    | 2015.06.07       | 2016.06.06       | 1 year             |
| 6    | Horn Antenna       | EM           | EM-AH-10180 | 2011071402   | 2015.07.06       | 2016.07.05       | 1 year             |
| 7    | Horn Ant           | Schwarzbeck  | BBHA 9170   | 9170-181     | 2015.07.06       | 2016.07.05       | 1 year             |
| 8    | Amplifier          | EM           | EM-30180    | 060538       | 2015.12.22       | 2016.12.21       | 1 year             |
| 9    | Loop Antenna       | ARA          | PLA-1030/B  | 1029         | 2015.06.08       | 2016.06.07       | 1 year             |
| 10   | Power Meter        | R&S          | NRVS        | 100696       | 2015.07.06       | 2016.07.05       | 1 year             |
| 11   | Power Sensor       | R&S          | URV5-Z4     | 0395.1619.05 | 2015.07.06       | 2016.07.05       | 1 year             |
| 12   | Test Cable         | N/A          | R-01        | N/A          | 2015.07.06       | 2016.07.05       | 1 year             |
| 13   | Test Cable         | N/A          | R-02        | N/A          | 2015.07.06       | 2016.07.05       | 1 year             |

### Conduction Test equipment

| Item | Kind of Equipment     | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|-----------------------|--------------|----------|------------|------------------|------------------|--------------------|
| 1    | Test Receiver         | R&S          | ESCI     | 101160     | 2015.06.06       | 2016.06.05       | 1 year             |
| 2    | LISN                  | R&S          | ENV216   | 101313     | 2015.08.24       | 2016.08.23       | 1 year             |
| 3    | LISN                  | EMCO         | 3816/2   | 00042990   | 2015.08.24       | 2016.08.23       | 1 year             |
| 4    | 50Ω Coaxial Switch    | Anritsu      | MP59B    | 6200264417 | 2015.06.07       | 2016.06.06       | 1 year             |
| 5    | Passive Voltage Probe | R&S          | ESH2-Z3  | 100196     | 2015.06.07       | 2016.06.06       | 1 year             |
| 6    | Absorbing clamp       | R&S          | MOS-21   | 100423     | 2015.06.08       | 2016.06.07       | 1 year             |
| 7    | Test Cable            | N/A          | C01      | N/A        | 2015.06.08       | 2016.06.07       | 1 year             |
| 8    | Test Cable            | N/A          | C02      | N/A        | 2015.06.08       | 2016.06.07       | 1 year             |
| 9    | Test Cable            | N/A          | C03      | N/A        | 2015.06.08       | 2016.06.07       | 1 year             |

|   |             |     |          |        |            |            |        |
|---|-------------|-----|----------|--------|------------|------------|--------|
| 1 | Attenuation | MCE | 24-10-34 | BN9258 | 2015.06.08 | 2016.06.07 | 1 year |
|---|-------------|-----|----------|--------|------------|------------|--------|

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |           | Standard |
|-----------------|----------------|---------|----------------|-----------|----------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average   |          |
| 0.15 -0.5       | 79.00          | 66.00   | 66 - 56 *      | 56 - 46 * | CISPR    |
| 0.50 -5.0       | 73.00          | 60.00   | 56.00          | 46.00     | CISPR    |
| 5.0 -30.0       | 73.00          | 60.00   | 60.00          | 50.00     | CISPR    |

|           |       |       |           |           |     |
|-----------|-------|-------|-----------|-----------|-----|
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00     | 46.00     | FCC |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00     | 50.00     | FCC |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

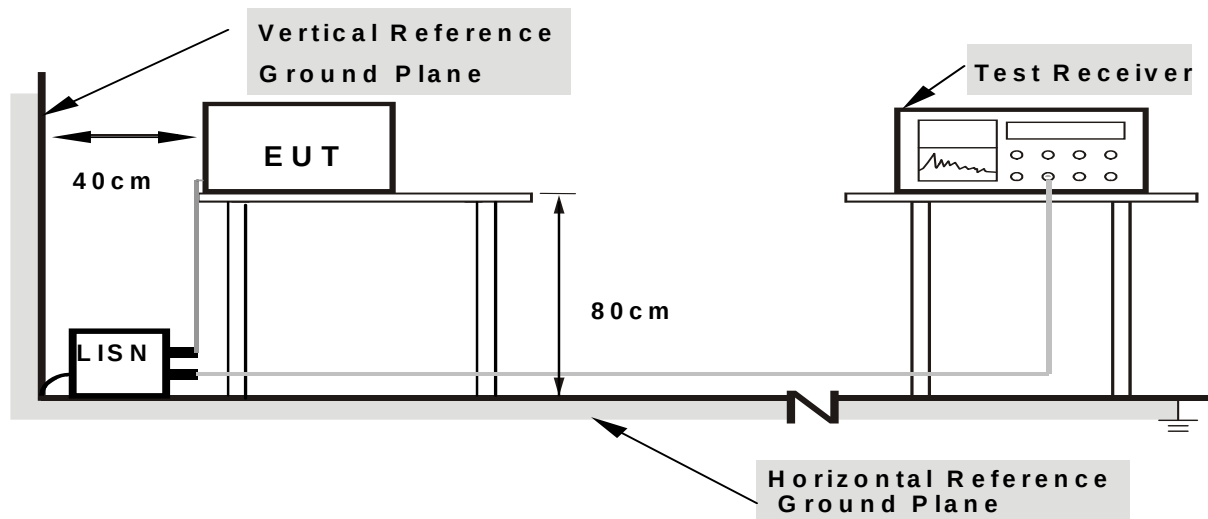
### 3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

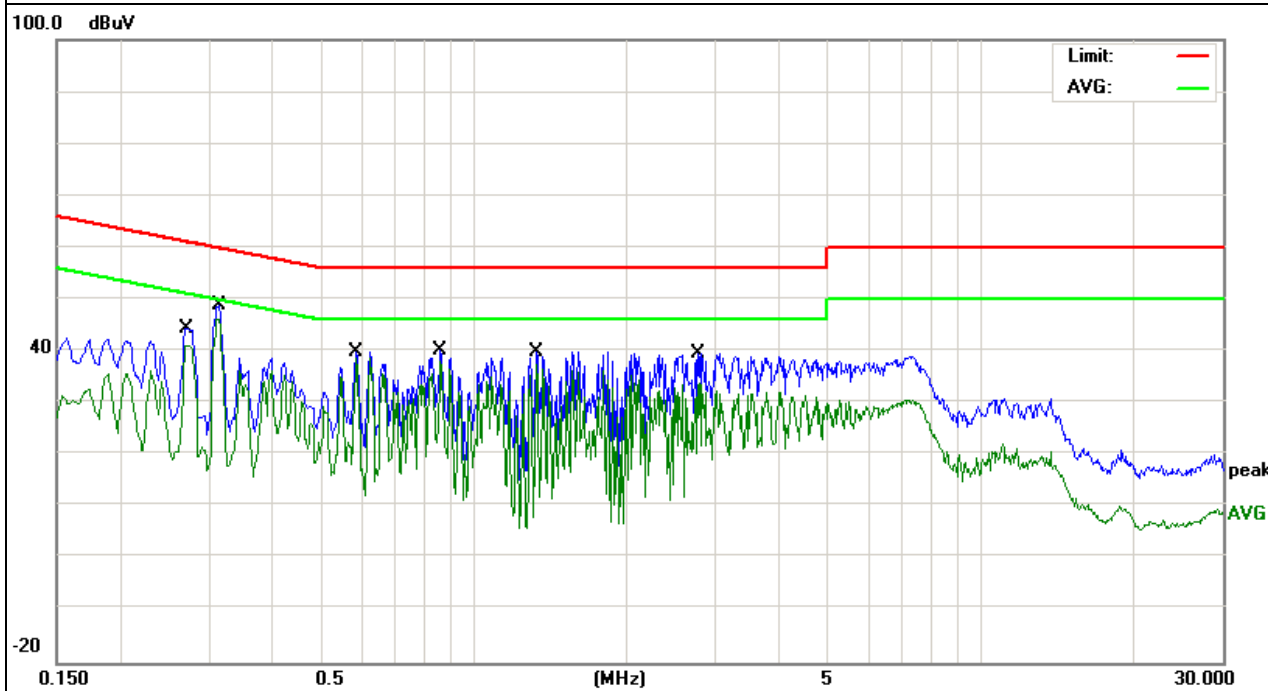
### 3.1.6 TEST RESULTS

|                |                                      |                     |                  |
|----------------|--------------------------------------|---------------------|------------------|
| EUT :          | Jimu Robot                           | Model Name :        | JR1601-Adapter-1 |
| Temperature :  | 26 °C                                | Relative Humidity : | 54%              |
| Pressure :     | 1010hPa                              | Phase :             | L                |
| Test Voltage : | DC 5.0V form Adapter<br>AC 120V/60Hz | Test Mode :         | Mode 4           |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.2740    | 34.29         | 10.14          | 44.43        | 60.99  | -16.56 | QP     |
| 0.2740    | 30.97         | 10.14          | 41.11        | 50.99  | -9.88  | AVG    |
| 0.3100    | 38.60         | 10.13          | 48.73        | 59.97  | -11.24 | QP     |
| 0.3100    | 35.94         | 10.13          | 46.07        | 49.97  | -3.90  | AVG    |
| 0.5860    | 30.05         | 9.79           | 39.84        | 56.00  | -16.16 | QP     |
| 0.5860    | 28.87         | 9.79           | 38.66        | 46.00  | -7.34  | AVG    |
| 0.8580    | 30.34         | 9.82           | 40.16        | 56.00  | -15.84 | QP     |
| 0.8580    | 28.13         | 9.82           | 37.95        | 46.00  | -8.05  | AVG    |
| 1.3300    | 30.10         | 9.81           | 39.91        | 56.00  | -16.09 | QP     |
| 1.3300    | 27.52         | 9.81           | 37.33        | 46.00  | -8.67  | AVG    |
| 2.7820    | 29.75         | 9.74           | 39.49        | 56.00  | -16.51 | QP     |
| 2.7820    | 24.18         | 9.74           | 33.92        | 46.00  | -12.08 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

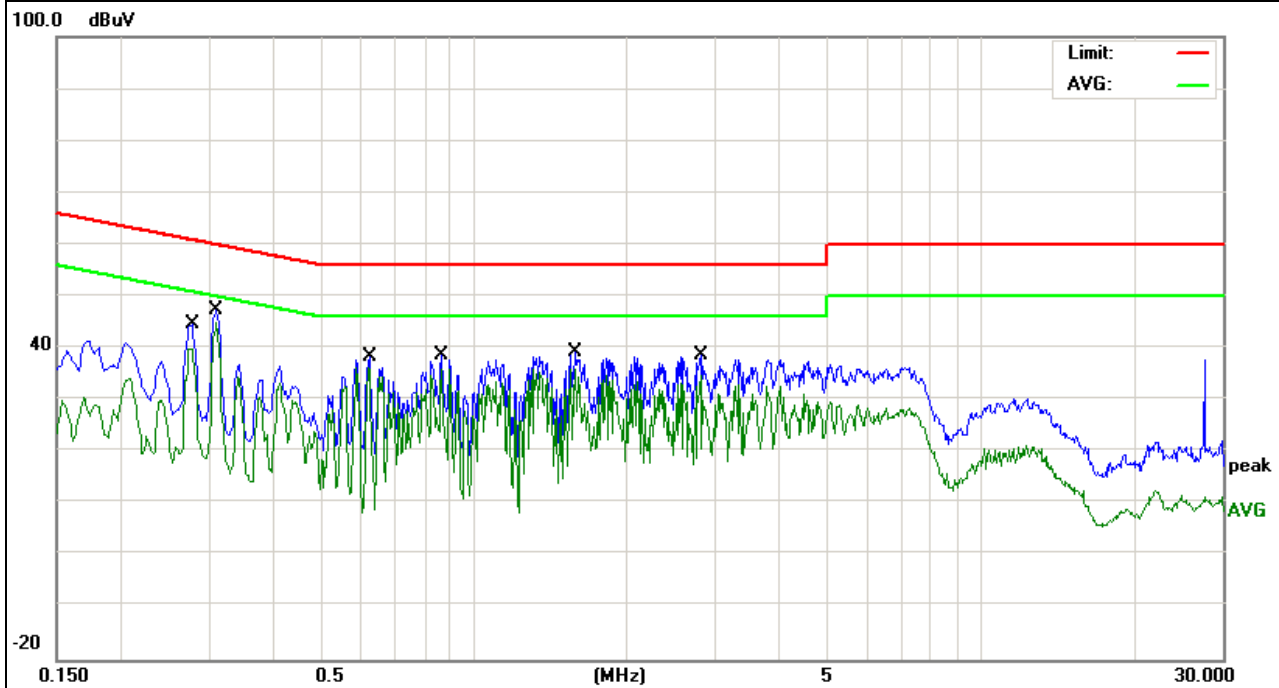


|                |                                      |                     |                  |
|----------------|--------------------------------------|---------------------|------------------|
| EUT :          | Jimu Robot                           | Model Name :        | JR1601-Adapter-1 |
| Temperature :  | 26 °C                                | Relative Humidity : | 54%              |
| Pressure :     | 1010hPa                              | Phase :             | N                |
| Test Voltage : | DC 5.0V form Adapter<br>AC 120V/60Hz | Test Mode :         | Mode 4           |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.2779    | 34.42         | 10.11          | 44.53        | 60.88  | -16.35 | QP     |
| 0.2779    | 29.75         | 10.11          | 39.86        | 50.88  | -11.02 | AVG    |
| 0.3099    | 37.25         | 10.12          | 47.37        | 59.97  | -12.60 | AVG    |
| 0.3099    | 34.95         | 10.12          | 45.07        | 49.97  | -4.90  | QP     |
| 0.6179    | 28.46         | 9.81           | 38.27        | 56.00  | -17.73 | AVG    |
| 0.6179    | 26.58         | 9.81           | 36.39        | 46.00  | -9.61  | QP     |
| 0.8619    | 28.72         | 9.84           | 38.56        | 56.00  | -17.44 | QP     |
| 0.8619    | 26.25         | 9.84           | 36.09        | 46.00  | -9.91  | AVG    |
| 1.5900    | 29.33         | 9.80           | 39.13        | 56.00  | -16.87 | AVG    |
| 1.5900    | 26.22         | 9.80           | 36.02        | 46.00  | -9.98  | QP     |
| 2.7980    | 28.77         | 9.74           | 38.51        | 56.00  | -17.49 | QP     |
| 2.7980    | 25.13         | 9.74           | 34.87        | 46.00  | -11.13 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

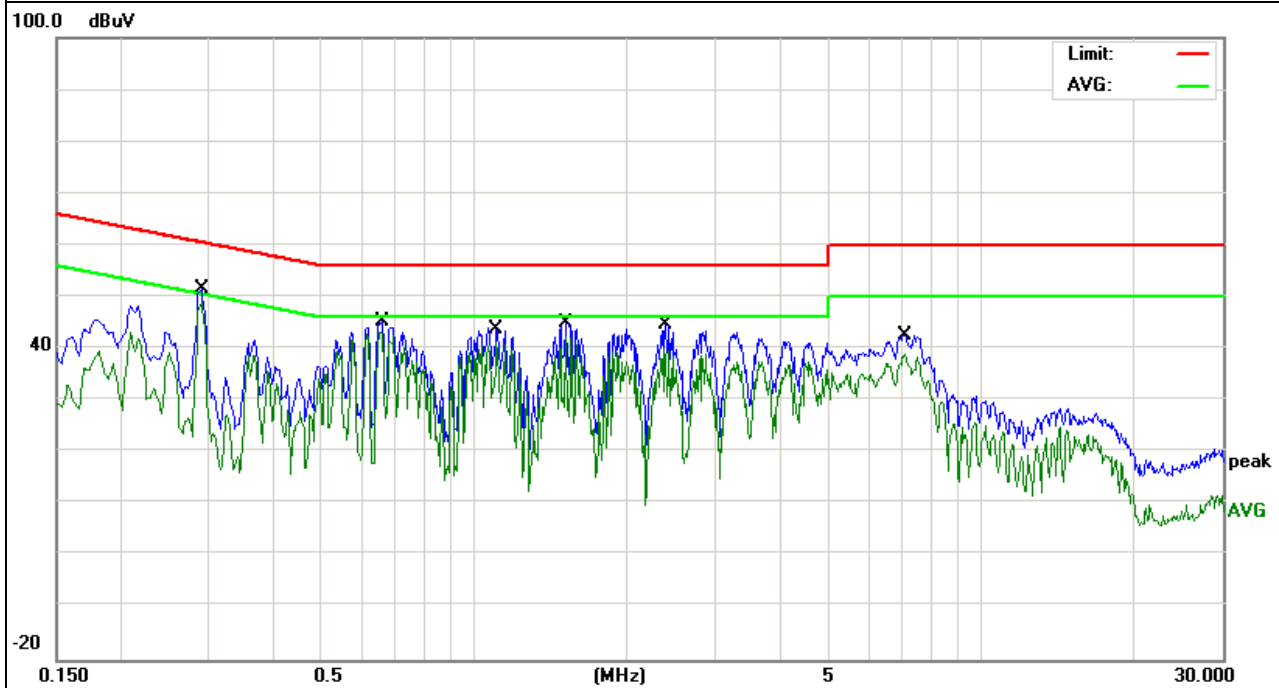


|                |                                   |                     |                  |
|----------------|-----------------------------------|---------------------|------------------|
| EUT :          | Jimu Robot                        | Model Name :        | JR1601-Adapter-1 |
| Temperature :  | 26 °C                             | Relative Humidity : | 54%              |
| Pressure :     | 1010hPa                           | Phase :             | L                |
| Test Voltage : | DC 5.0V from adapter AC 240V/60Hz | Test Mode :         | Mode 4           |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.2900    | 41.52         | 10.14          | 51.66        | 60.52  | -8.86  | QP     |
| 0.2900    | 39.14         | 10.14          | 49.28        | 50.52  | -1.24  | AVG    |
| 0.6540    | 35.34         | 9.78           | 45.12        | 56.00  | -10.88 | QP     |
| 0.6540    | 33.25         | 9.78           | 43.03        | 46.00  | -2.97  | AVG    |
| 1.1100    | 34.26         | 9.84           | 44.10        | 56.00  | -11.90 | QP     |
| 1.1100    | 31.18         | 9.84           | 41.02        | 46.00  | -4.98  | AVG    |
| 1.5180    | 35.11         | 9.79           | 44.90        | 56.00  | -11.10 | QP     |
| 1.5180    | 32.60         | 9.79           | 42.39        | 46.00  | -3.61  | AVG    |
| 2.3820    | 34.79         | 9.73           | 44.52        | 56.00  | -11.48 | QP     |
| 2.3820    | 29.99         | 9.73           | 39.72        | 46.00  | -6.28  | AVG    |
| 7.0940    | 32.86         | 9.77           | 42.63        | 60.00  | -17.37 | QP     |
| 7.0940    | 29.20         | 9.77           | 38.97        | 50.00  | -11.03 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

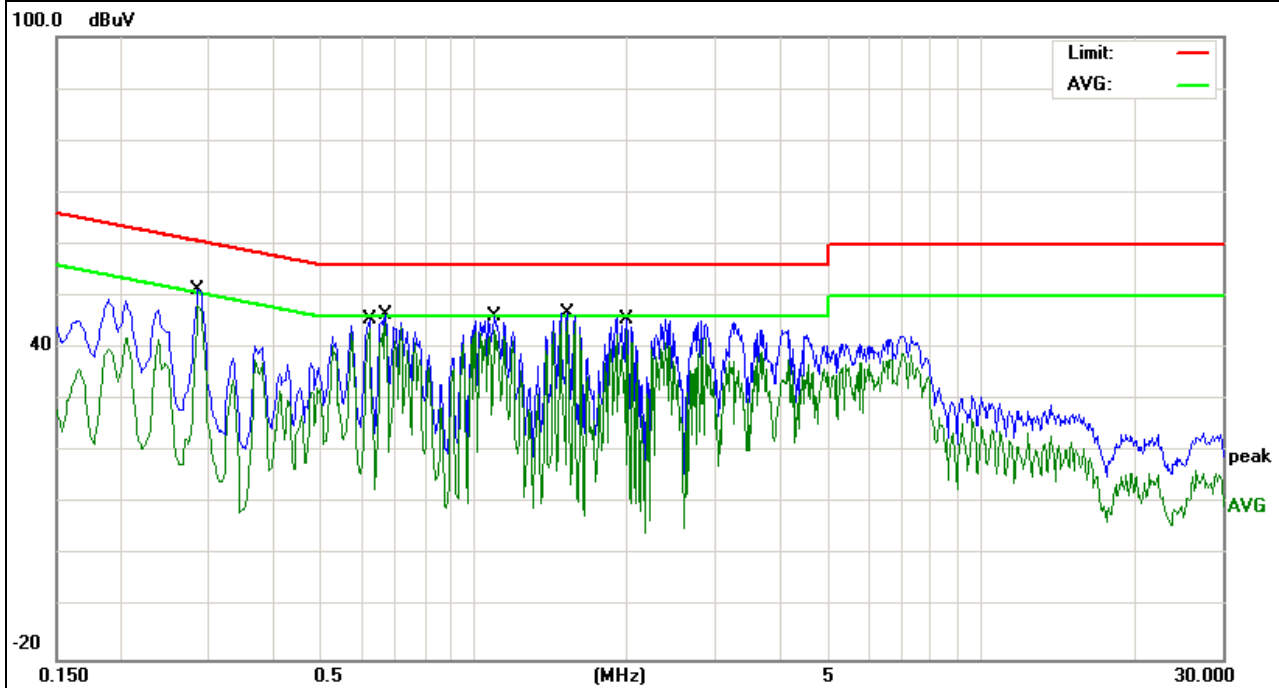


|                |                                   |                     |                  |
|----------------|-----------------------------------|---------------------|------------------|
| EUT :          | Jimu Robot                        | Model Name :        | JR1601-Adapter-1 |
| Temperature :  | 26 °C                             | Relative Humidity : | 54%              |
| Pressure :     | 1010hPa                           | Phase :             | N                |
| Test Voltage : | DC 5.0V from adapter AC 240V/60Hz | Test Mode :         | Mode 4           |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.2859    | 41.23         | 10.11          | 51.34        | 60.64  | -9.30  | QP     |
| 0.2859    | 38.00         | 10.11          | 48.11        | 50.64  | -2.53  | AVG    |
| 0.6219    | 35.80         | 9.81           | 45.61        | 56.00  | -10.39 | QP     |
| 0.6219    | 33.96         | 9.81           | 43.77        | 46.00  | -2.23  | AVG    |
| 0.6700    | 36.69         | 9.81           | 46.50        | 56.00  | -9.50  | QP     |
| 0.6700    | 35.09         | 9.81           | 44.90        | 46.00  | -1.10  | AVG    |
| 1.0980    | 36.15         | 9.86           | 46.01        | 56.00  | -9.99  | QP     |
| 1.0980    | 33.53         | 9.86           | 43.39        | 46.00  | -2.61  | AVG    |
| 1.5300    | 37.04         | 9.81           | 46.85        | 56.00  | -9.15  | QP     |
| 1.5300    | 35.40         | 9.81           | 45.21        | 46.00  | -0.79  | AVG    |
| 2.0099    | 35.98         | 9.75           | 45.73        | 56.00  | -10.27 | QP     |
| 2.0099    | 33.55         | 9.75           | 43.30        | 46.00  | -2.70  | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



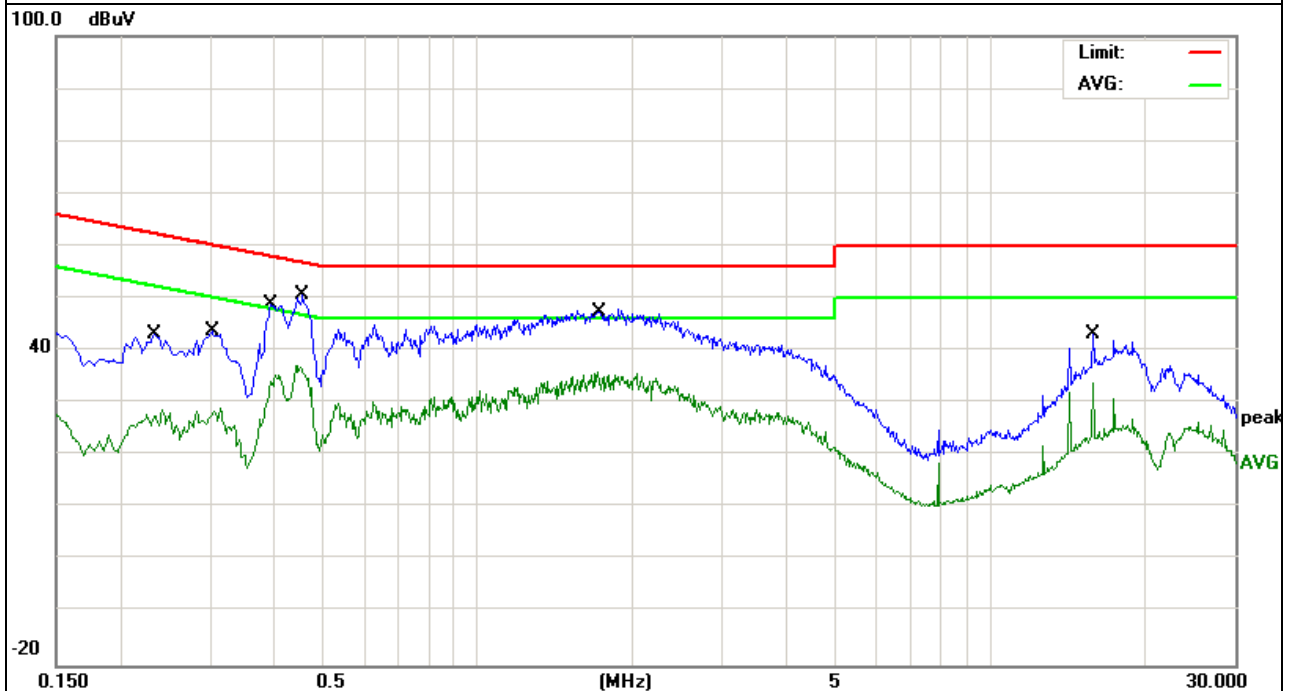
Note: pre-test all of charging mode, this mode is worst case, only provide the worst case in report.

|                |                                      |                     |                  |
|----------------|--------------------------------------|---------------------|------------------|
| EUT :          | Jimu Robot                           | Model Name :        | JR1601-Adapter-2 |
| Temperature :  | 26 °C                                | Relative Humidity : | 54%              |
| Pressure :     | 1010hPa                              | Phase :             | L                |
| Test Voltage : | DC 5.0V form Adapter<br>AC 120V/60Hz | Test Mode :         | Mode 4           |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.2340    | 32.96         | 10.13          | 43.09        | 62.30  | -19.21 | QP     |
| 0.2340    | 18.49         | 10.13          | 28.62        | 52.30  | -23.68 | AVG    |
| 0.3019    | 33.54         | 10.14          | 43.68        | 60.19  | -16.51 | QP     |
| 0.3019    | 18.84         | 10.14          | 28.98        | 50.19  | -21.21 | AVG    |
| 0.3940    | 38.71         | 10.05          | 48.76        | 57.98  | -9.22  | QP     |
| 0.3940    | 25.38         | 10.05          | 35.43        | 47.98  | -12.55 | AVG    |
| 0.4540    | 40.71         | 9.91           | 50.62        | 56.80  | -6.18  | QP     |
| 0.4540    | 27.22         | 9.91           | 37.13        | 46.80  | -9.67  | AVG    |
| 1.7298    | 37.62         | 9.76           | 47.38        | 56.00  | -8.62  | QP     |
| 1.7298    | 26.25         | 9.76           | 36.01        | 46.00  | -9.99  | AVG    |
| 15.8376   | 33.35         | 9.87           | 43.22        | 60.00  | -16.78 | QP     |
| 15.8376   | 23.93         | 9.87           | 33.80        | 50.00  | -16.20 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

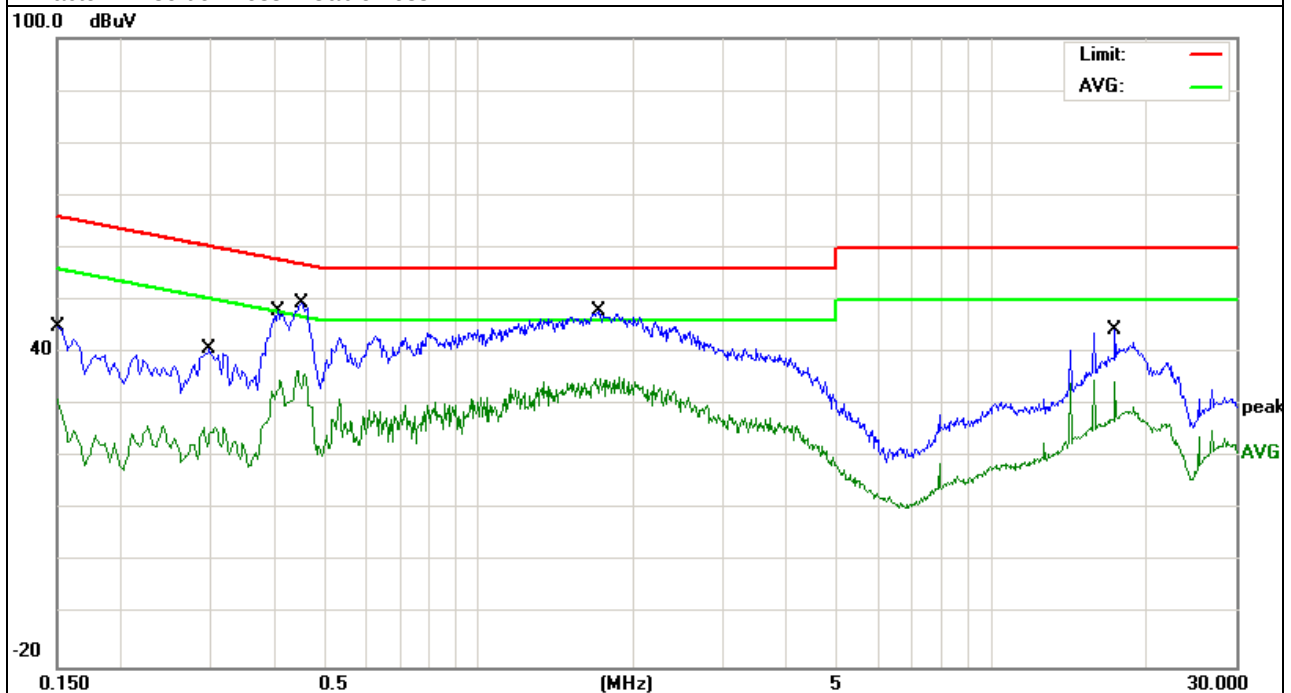


|                |                                      |                     |                  |
|----------------|--------------------------------------|---------------------|------------------|
| EUT :          | Jimu Robot                           | Model Name :        | JR1601-Adapter-2 |
| Temperature :  | 26 °C                                | Relative Humidity : | 54%              |
| Pressure :     | 1010hPa                              | Phase :             | N                |
| Test Voltage : | DC 5.0V form Adapter<br>AC 120V/60Hz | Test Mode :         | Mode 4           |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.1500    | 34.87         | 10.12          | 44.99        | 65.99  | -21.00 | QP     |
| 0.1500    | 21.01         | 10.12          | 31.13        | 55.99  | -24.86 | AVG    |
| 0.2977    | 30.49         | 10.14          | 40.63        | 60.30  | -19.67 | AVG    |
| 0.2977    | 15.69         | 10.14          | 25.83        | 50.30  | -24.47 | QP     |
| 0.4060    | 37.80         | 10.03          | 47.83        | 57.73  | -9.90  | AVG    |
| 0.4060    | 24.82         | 10.03          | 34.85        | 47.73  | -12.88 | QP     |
| 0.4500    | 39.56         | 9.92           | 49.48        | 56.87  | -7.39  | QP     |
| 0.4500    | 26.65         | 9.92           | 36.57        | 46.87  | -10.30 | AVG    |
| 1.7138    | 38.07         | 9.76           | 47.83        | 56.00  | -8.17  | AVG    |
| 1.7138    | 25.52         | 9.76           | 35.28        | 46.00  | -10.72 | QP     |
| 17.4219   | 34.31         | 9.90           | 44.21        | 60.00  | -15.79 | QP     |
| 17.4219   | 24.67         | 9.90           | 34.57        | 50.00  | -15.43 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

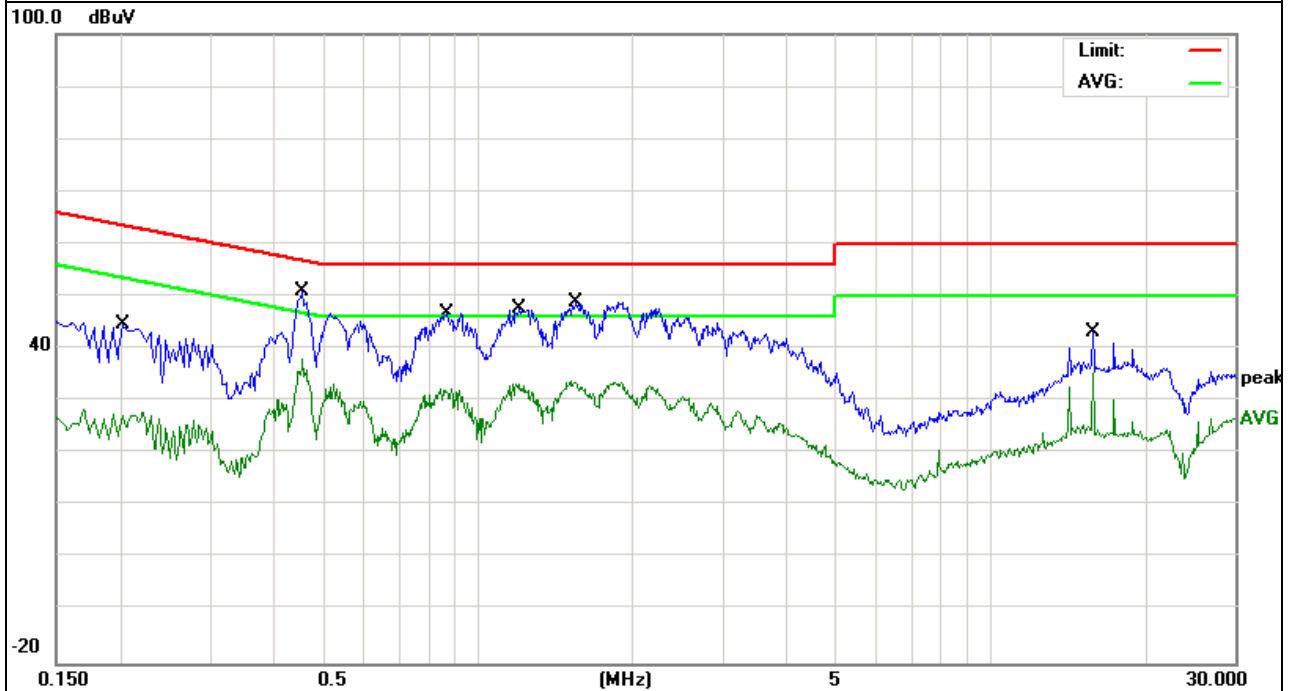


|                |                                   |                     |                  |
|----------------|-----------------------------------|---------------------|------------------|
| EUT :          | Jimu Robot                        | Model Name :        | JR1601-Adapter-2 |
| Temperature :  | 26 °C                             | Relative Humidity : | 54%              |
| Pressure :     | 1010hPa                           | Phase :             | L                |
| Test Voltage : | DC 5.0V from adapter AC 240V/60Hz | Test Mode :         | Mode 4           |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.2020    | 34.44         | 10.13          | 44.57        | 63.52  | -18.95 | QP     |
| 0.2020    | 17.76         | 10.13          | 27.89        | 53.52  | -25.63 | AVG    |
| 0.4540    | 41.07         | 9.91           | 50.98        | 56.80  | -5.82  | QP     |
| 0.4540    | 28.04         | 9.91           | 37.95        | 46.80  | -8.85  | AVG    |
| 0.8699    | 37.02         | 9.82           | 46.84        | 56.00  | -9.16  | QP     |
| 0.8699    | 22.66         | 9.82           | 32.48        | 46.00  | -13.52 | AVG    |
| 1.2057    | 37.81         | 9.83           | 47.64        | 56.00  | -8.36  | QP     |
| 1.2057    | 23.37         | 9.83           | 33.20        | 46.00  | -12.80 | AVG    |
| 1.5580    | 38.93         | 9.78           | 48.71        | 56.00  | -7.29  | QP     |
| 1.5580    | 24.07         | 9.78           | 33.85        | 46.00  | -12.15 | AVG    |
| 15.8376   | 33.17         | 9.87           | 43.04        | 60.00  | -16.96 | QP     |
| 15.8376   | 25.37         | 9.87           | 35.24        | 50.00  | -14.76 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

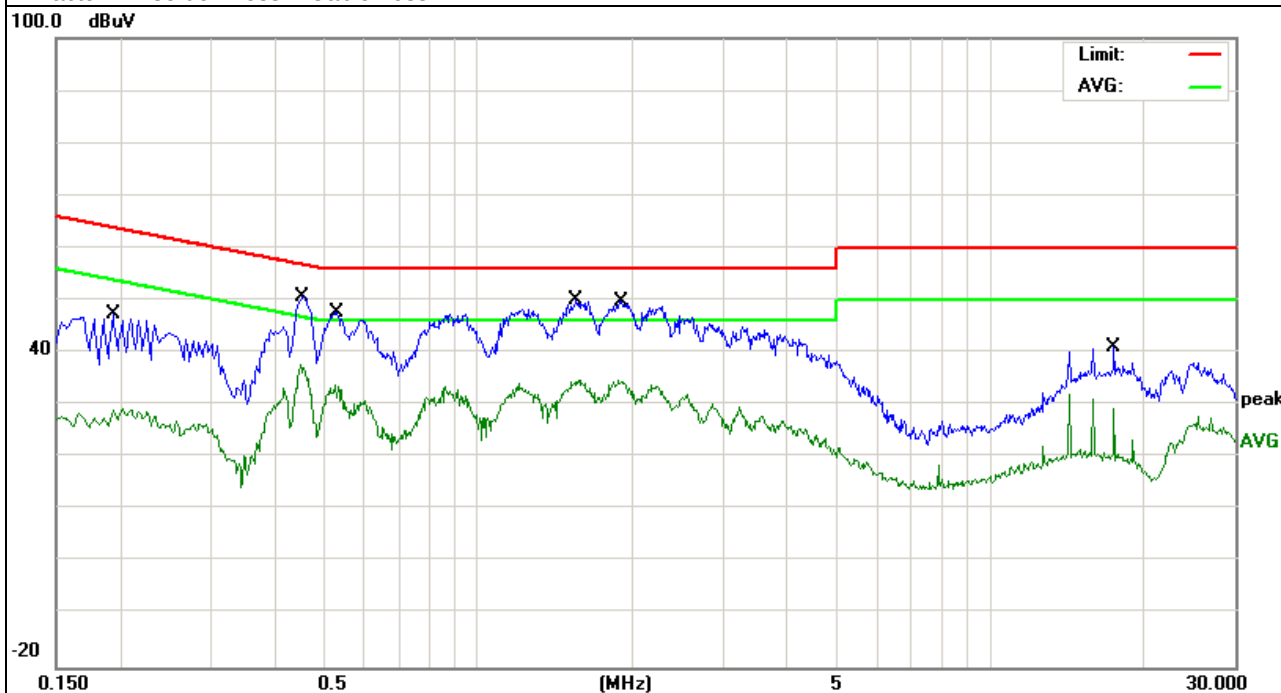


|                |                                   |                     |                  |
|----------------|-----------------------------------|---------------------|------------------|
| EUT :          | Jimu Robot                        | Model Name :        | JR1601-Adapter-2 |
| Temperature :  | 26 °C                             | Relative Humidity : | 54%              |
| Pressure :     | 1010hPa                           | Phase :             | N                |
| Test Voltage : | DC 5.0V from adapter AC 240V/60Hz | Test Mode :         | Mode 4           |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.1940    | 37.13         | 10.13          | 47.26        | 63.86  | -16.60 | QP     |
| 0.1940    | 19.32         | 10.13          | 29.45        | 53.86  | -24.41 | AVG    |
| 0.4540    | 40.89         | 9.91           | 50.80        | 56.80  | -6.00  | QP     |
| 0.4540    | 27.96         | 9.91           | 37.87        | 46.80  | -8.93  | AVG    |
| 0.5299    | 37.76         | 9.80           | 47.56        | 56.00  | -8.44  | QP     |
| 0.5299    | 23.98         | 9.80           | 33.78        | 46.00  | -12.22 | AVG    |
| 1.5580    | 40.26         | 9.78           | 50.04        | 56.00  | -5.96  | QP     |
| 1.5580    | 25.12         | 9.78           | 34.90        | 46.00  | -11.10 | AVG    |
| 1.9056    | 40.11         | 9.74           | 49.85        | 56.00  | -6.15  | QP     |
| 1.9056    | 25.14         | 9.74           | 34.88        | 46.00  | -11.12 | AVG    |
| 17.4219   | 31.08         | 9.90           | 40.98        | 60.00  | -19.02 | QP     |
| 17.4219   | 19.57         | 9.90           | 29.47        | 50.00  | -20.53 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



Note: pre-test all of charging mode, this mode is worst case, only provide the worst case in report.

## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | Measurement Distance<br>(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                                |

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Class B (dBuV/m) (at 3M) |         |
|-----------------|--------------------------|---------|
|                 | PEAK                     | AVERAGE |
| Above 1000      | 74                       | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

| Highest frequency generated or<br>Upper frequency of<br>measurement used in the device<br>or on which the device operates<br>or tunes (MHz) | Range (MHz)                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Below 1.705                                                                                                                                 | 30                                                                                 |
| 1.705 – 108                                                                                                                                 | 1000                                                                               |
| 108 – 500                                                                                                                                   | 2000                                                                               |
| 500 – 1000                                                                                                                                  | 5000                                                                               |
| Above 1000                                                                                                                                  | 5 <sup>th</sup> harmonic of the highest frequency or 40 GHz,<br>whichever is lower |

| Spectrum Parameter                    | Setting                                          |
|---------------------------------------|--------------------------------------------------|
| Attenuation                           | Auto                                             |
| Start Frequency                       | 1000 MHz                                         |
| Stop Frequency                        | 10th carrier harmonic                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

### 3.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

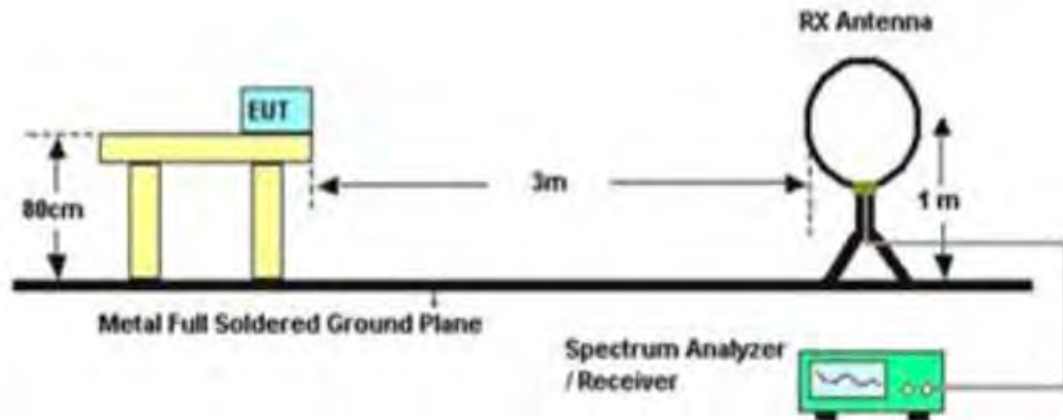
| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000           | QP       | 120 kHz              | 300 kHz         |
| Above 1000           | Peak     | 1 MHz                | 1 MHz           |
|                      | Peak     | 1 MHz                | 10 Hz           |

### 3.2.3 DEVIATION FROM TEST STANDARD

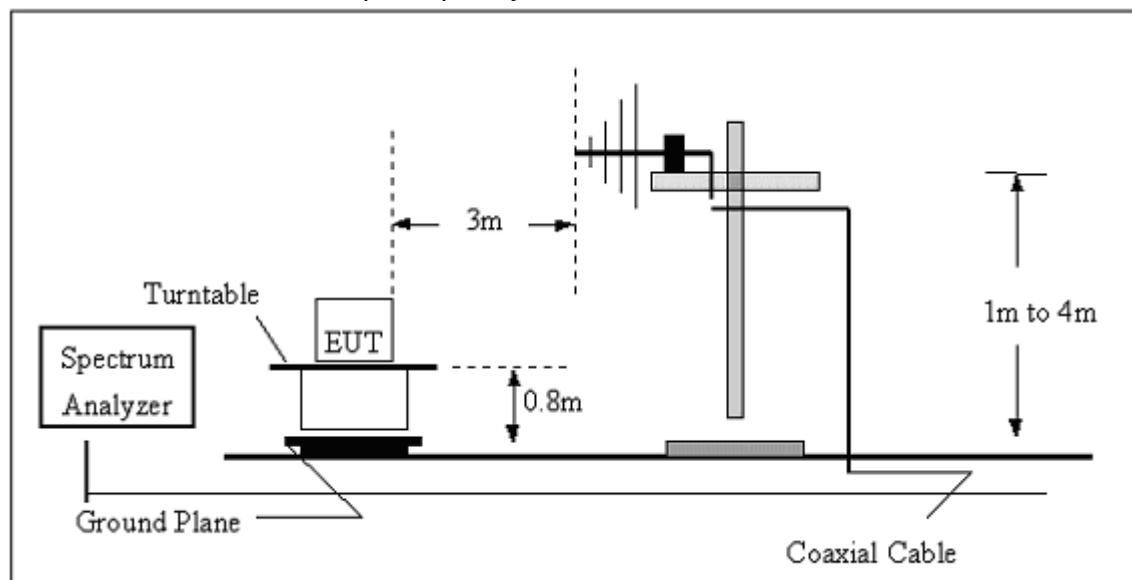
No deviation

### 3.2.4 TEST SETUP

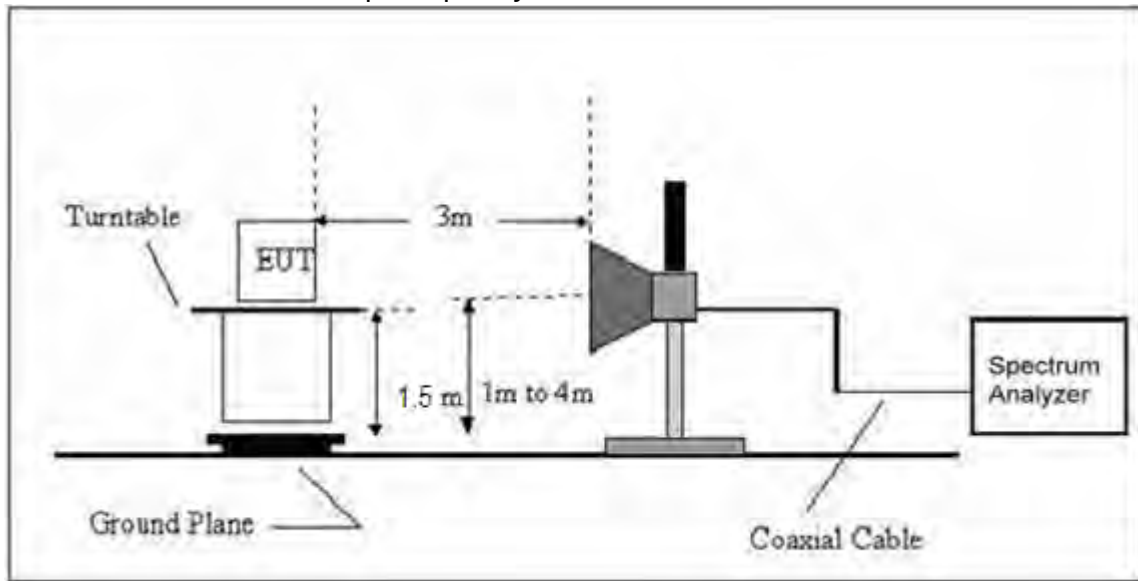
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



**3.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 3.2.6 TEST RESULTS (BELOW 30 MHZ)

|               |            |                     |         |
|---------------|------------|---------------------|---------|
| EUT :         | Jimu Robot | Model Name :        | JR1601  |
| Temperature : | 20 °C      | Relative Humidity : | 48%     |
| Pressure :    | 1010 hPa   | Test Voltage :      | DC 7.4V |
| Test Mode :   | TX         | Polarization :      | ---     |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | P     |
| --    | --       | --       | --     | P     |

**NOTE:**

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

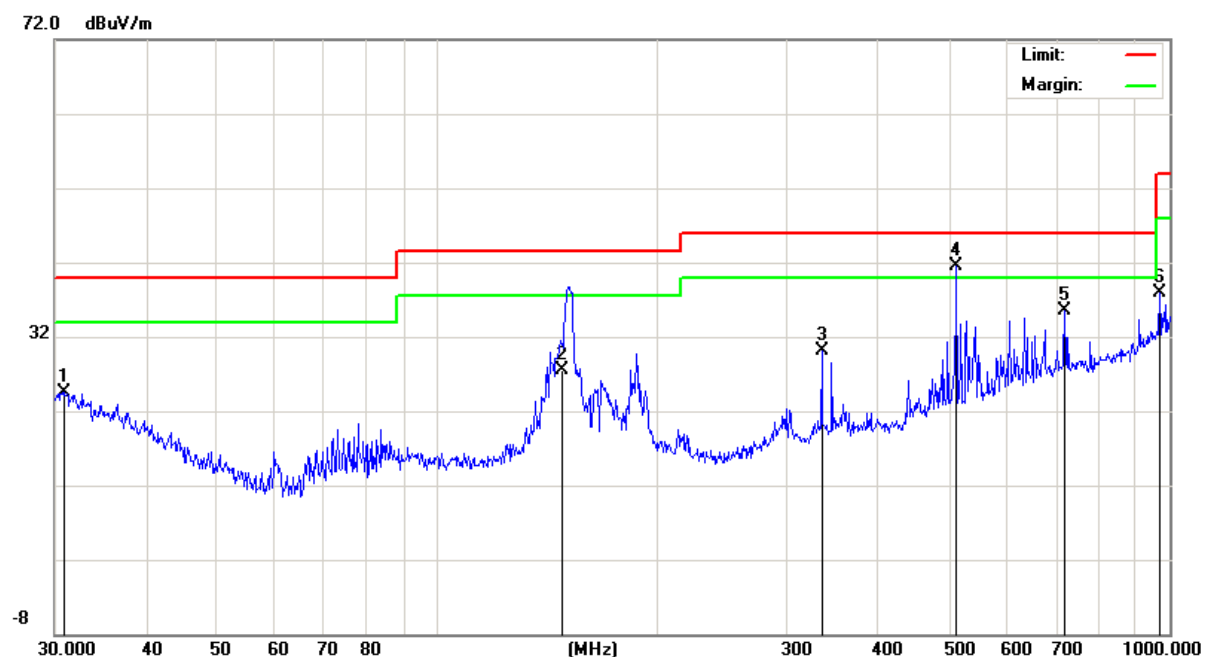
### 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

|                |            |                     |                   |
|----------------|------------|---------------------|-------------------|
| EUT :          | Jimu Robot | Model Name :        | JR1601            |
| Temperature :  | 20 °C      | Relative Humidity : | 48%               |
| Pressure :     | 1010hPa    | Test Mode :         | TX-1Mbps(High CH) |
| Test Voltage : | DC 7.4V    |                     |                   |

| Polar<br>(H/V) | Frequency | Meter<br>Reading | Factor | Emission<br>Level | Limits   | Margin | Remark |
|----------------|-----------|------------------|--------|-------------------|----------|--------|--------|
|                | (MHz)     | (dBuV)           | (dB)   | (dBuV/m)          | (dBuV/m) | (dB)   |        |
| V              | 30.9618   | 5.34             | 19.22  | 24.56             | 40.00    | -15.44 | QP     |
| V              | 148.3778  | 15.86            | 11.57  | 27.43             | 43.50    | -16.07 | QP     |
| V              | 334.8589  | 16.28            | 13.78  | 30.06             | 46.00    | -15.94 | QP     |
| V              | 511.8352  | 24.34            | 17.18  | 41.52             | 46.00    | -4.48  | QP     |
| V              | 719.1992  | 14.11            | 21.34  | 35.45             | 46.00    | -10.55 | QP     |
| V              | 968.9338  | 11.10            | 26.77  | 37.87             | 54.00    | -16.13 | QP     |

#### Remark:

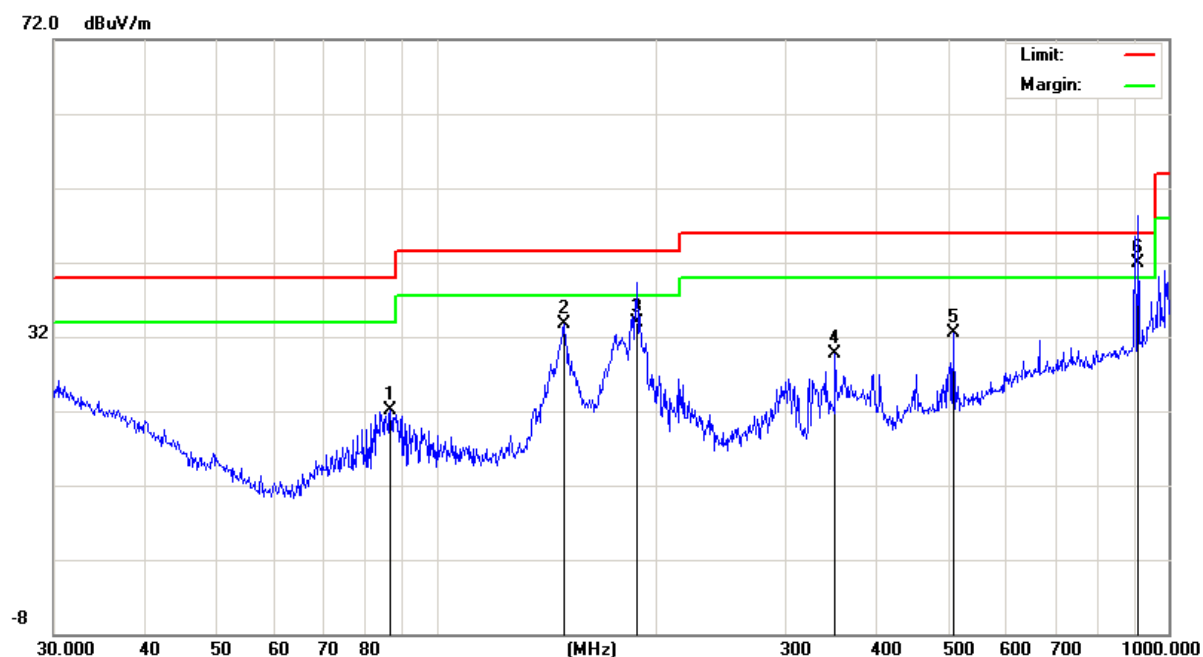
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



| Polar<br>(H/V) | Frequency | Meter<br>Reading | Factor | Emission<br>Level | Limits   | Margin | Remark |
|----------------|-----------|------------------|--------|-------------------|----------|--------|--------|
|                | (MHz)     | (dBuV)           | (dB)   | (dBuV/m)          | (dBuV/m) | (dB)   |        |
| H              | 86.5027   | 12.76            | 9.31   | 22.07             | 40.00    | -17.93 | QP     |
| H              | 149.4857  | 22.12            | 11.66  | 33.78             | 43.50    | -9.72  | QP     |
| H              | 187.7530  | 22.48            | 11.52  | 34.00             | 43.50    | -9.50  | QP     |
| H              | 350.4768  | 15.54            | 14.12  | 29.66             | 46.00    | -16.34 | QP     |
| H              | 508.2581  | 15.22            | 17.23  | 32.45             | 46.00    | -13.55 | QP     |
| H              | 909.6667  | 17.39            | 24.50  | 41.89             | 46.00    | -4.11  | QP     |

**Remark:**

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



### 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

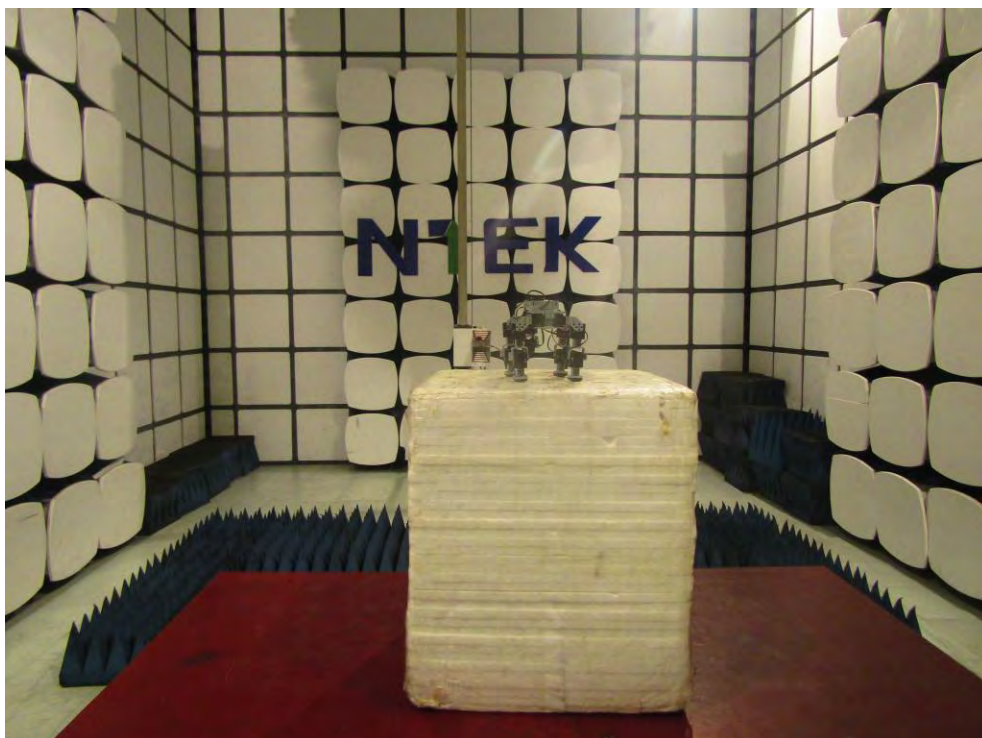
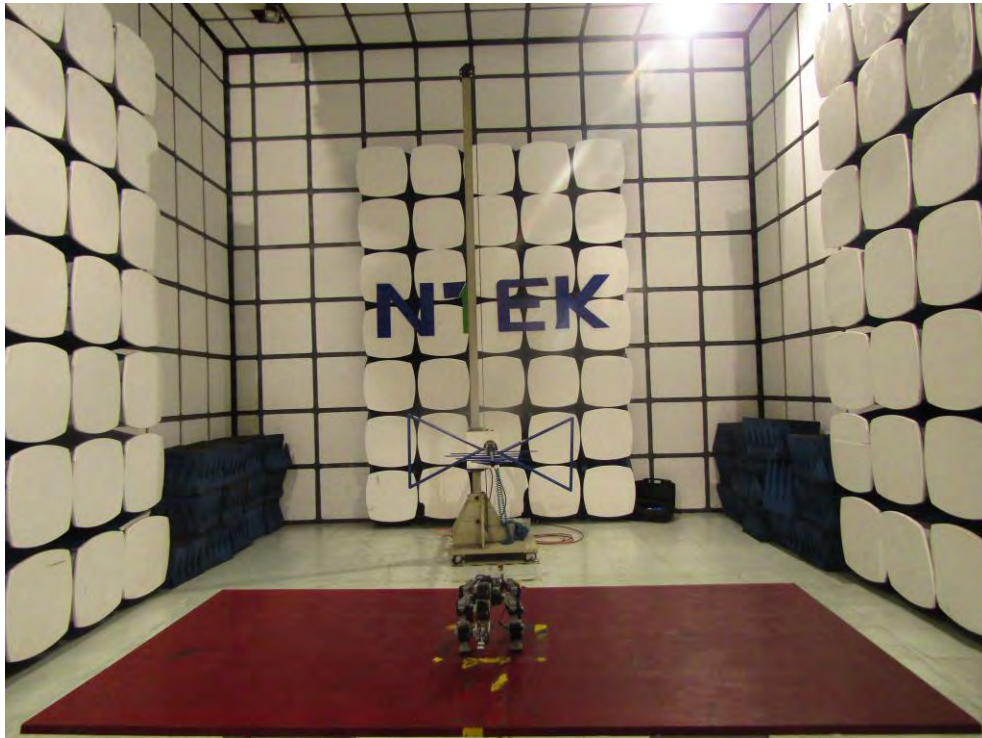
|               |            |                     |        |
|---------------|------------|---------------------|--------|
| EUT :         | Jimu Robot | Model Name :        | JR1601 |
| Temperature : | 20 °C      | Relative Humidity : | 48%    |
| Pressure :    | 1010hPa    | Test Mode :         | TX     |
| Test Mode :   | DC 7.4V    |                     |        |

| Frequency<br>(MHz)                | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark | Comment    |
|-----------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|--------|------------|
| Low Channel (2402 MHz)-Above 1G   |                         |                |                            |                    |                |        |            |
| 4803.901                          | 63.40                   | -3.64          | 59.76                      | 74.00              | -14.24         | Pk     | Vertical   |
| 4803.901                          | 48.74                   | -3.64          | 45.10                      | 54.00              | -8.90          | AV     | Vertical   |
| 7206.049                          | 57.41                   | -0.95          | 56.46                      | 74.00              | -17.54         | Pk     | Vertical   |
| 7206.049                          | 41.26                   | -0.95          | 40.31                      | 54.00              | -13.69         | AV     | Vertical   |
| 4804.227                          | 64.87                   | -3.64          | 61.23                      | 74.00              | -12.77         | Pk     | Horizontal |
| 4804.227                          | 44.58                   | -3.64          | 40.94                      | 54.00              | -13.06         | AV     | Horizontal |
| 7206.791                          | 58.31                   | -0.96          | 57.35                      | 74.00              | -16.65         | Pk     | Horizontal |
| 7206.791                          | 42.58                   | -0.96          | 41.62                      | 54.00              | -12.38         | AV     | Horizontal |
| Mid Channel (2441 MHz)-Above 1G   |                         |                |                            |                    |                |        |            |
| 4882.116                          | 65.98                   | -3.67          | 62.31                      | 74.00              | -11.69         | Pk     | Vertical   |
| 4882.116                          | 46.58                   | -3.67          | 42.91                      | 54.00              | -11.09         | AV     | Vertical   |
| 7323.318                          | 59.84                   | -0.82          | 59.02                      | 74.00              | -14.98         | Pk     | Vertical   |
| 7323.318                          | 43.26                   | -0.82          | 42.44                      | 54.00              | -11.56         | AV     | Vertical   |
| 4882.744                          | 64.05                   | -3.67          | 60.38                      | 74.00              | -13.62         | Pk     | Horizontal |
| 4882.744                          | 44.74                   | -3.67          | 41.07                      | 54.00              | -12.93         | AV     | Horizontal |
| 7323.285                          | 60.34                   | -0.82          | 59.52                      | 74.00              | -14.48         | Pk     | Horizontal |
| 7323.285                          | 42.54                   | -0.82          | 41.72                      | 54.00              | -12.28         | AV     | Horizontal |
| High Channel (2480 MHz)- Above 1G |                         |                |                            |                    |                |        |            |
| 4960.284                          | 63.92                   | -3.59          | 60.33                      | 74.00              | -13.67         | Pk     | Vertical   |
| 4960.284                          | 44.65                   | -3.59          | 41.06                      | 54.00              | -12.94         | AV     | Vertical   |
| 7440.32                           | 56.87                   | -0.68          | 56.19                      | 74.00              | -17.81         | Pk     | Vertical   |
| 7440.32                           | 41.85                   | -0.68          | 41.17                      | 54.00              | -12.83         | AV     | Vertical   |
| 4960.741                          | 60.35                   | -3.59          | 56.76                      | 74.00              | -17.24         | Pk     | Horizontal |
| 4960.741                          | 44.92                   | -3.59          | 41.33                      | 54.00              | -12.67         | AV     | Horizontal |
| 7440.376                          | 59.75                   | -0.68          | 59.07                      | 74.00              | -14.93         | Pk     | Horizontal |
| 7440.376                          | 44.55                   | -0.68          | 43.87                      | 54.00              | -10.13         | AV     | Horizontal |

Note: Mode 1Mbps is the worst mode.

#### 4. EUT TEST PHOTO

##### Radiated Measurement Photos



**CONDUCTED EMISSION Photos**

