

# FCC Test Report

|              |                 |
|--------------|-----------------|
| Product Name | WiWi module     |
| Model No.    | WIWI2GOUKI      |
| FCC ID.      | 2AU93WIWI2GOUKI |

|           |   |
|-----------|---|
| Applicant | National institute of Information and Communications technology |
| Address   | 4-2-1 Nukuikitamachi, Koganei, Tokyo, 184-8795 JAPAN            |

|                 |                     |
|-----------------|---------------------|
| Date of Receipt | Nov. 20, 2019       |
| Issued Date     | Dec. 25, 2019       |
| Report No.      | 19C0396R-RFUSP66V00 |
| Report Version  | V1.0                |



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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# Test Report


Issued Date: Dec. 25, 2019


Report No. : 19C0396R-RFUSP66V00



|                     |   |
|---------------------|---|
| Product Name        | WiWi module   |
| Applicant           | National institute of Information and Communications technology           |
| Address             | 4-2-1 Nukuikitamachi, Koganei, Tokyo, 184-8795 JAPAN                      |
| Manufacturer        | National institute of Information and Communications technology           |
| Model No.           | WIWI2GOUKI  |
| FCC ID.             | 2AU93WIWI2GOUKI   |
| EUT Rated Voltage   | DC 5V, 2.5A (by AC adaptor)   |
| EUT Test Voltage    | AC 120V/60Hz  |
| Trade Name          | NICT  |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C<br>ANSI C63.4: 2014, ANSI C63.10: 2013 |
| Test Result         | Complied  |

Documented By :   
( Senior Engineering Adm. Specialist / Anita Chou )

Tested By :   
( Engineer / Sam Hsu )

Approved By :   
( Director / Vincent Lin )

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## 1. GENERAL INFORMATION

### 1.1. EUT Description

|                    |   |
|--------------------|---|
| Product Name       | WiWi module   |
| Trade Name         | NICT  |
| FCC ID.            | 2AU93WIWI2GOUKI   |
| Model No.          | WIWI2GOUKI  |
| Frequency Range    | 922.5MHz-927.5MHz   |
| Type of Modulation | GFSK  |
| Number of Channels | 26  |
| Channel Control    | Auto  |
| Antenna Type       | Dipole Antenna  |
| AC Adaptor         | MFR: Linkman, M/N: STD-05026U2<br>Input: AC 100-240V, 47-63Hz, 0.3A<br>Output: DC 5V, 2.5A 12.5 Max<br>Cable Out: Non-shielded, 1.5m, with one ferrite core bonded. |
| USB Cable          | Non-shielded, 1m  |
| Oscilloscope Cable | Non-shielded, 1m  |

#### Center Frequency of Each Channel:

| Channel     | Frequency | Channel     | Frequency | Channel     | Frequency |
|-------------|-----------|-------------|-----------|-------------|-----------|
| Channel 1:  | 922.5MHz  | Channel 2:  | 922.7MHz  | Channel 3:  | 922.9MHz  |
| Channel 4:  | 923.1MHz  | Channel 5:  | 923.3MHz  | Channel 6:  | 923.5MHz  |
| Channel 7:  | 923.7MHz  | Channel 8:  | 923.9MHz  | Channel 9:  | 924.1MHz  |
| Channel 10: | 924.3MHz  | Channel 11: | 924.5MHz  | Channel 12: | 924.7MHz  |
| Channel 13: | 924.9MHz  | Channel 14: | 925.1MHz  | Channel 15: | 925.3MHz  |
| Channel 16: | 925.5MHz  | Channel 17: | 925.7MHz  | Channel 18: | 925.9MHz  |
| Channel 19: | 926.1MHz  | Channel 20: | 926.3MHz  | Channel 21: | 926.5MHz  |
| Channel 22: | 926.7MHz  | Channel 23: | 926.9MHz  | Channel 24: | 927.1MHz  |
| Channel 25: | 927.3MHz  | Channel 26: | 927.5MHz  |             |           |

#### Note:

1. The EUT is an WiWi module with a built-in 922.5MHz-927.5MHz GFSK transceiver.
2. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

|           |                  |
|-----------|------------------|
| Test Mode | Mode 1: Transmit |
|-----------|------------------|

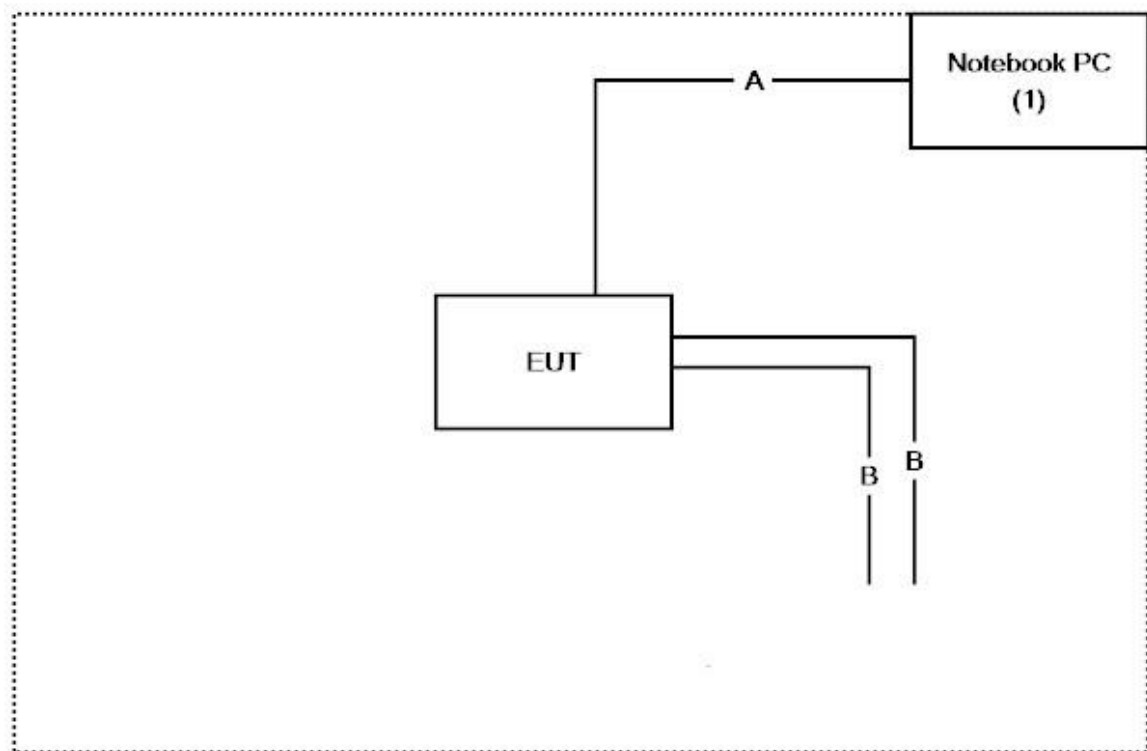
### 1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product        | Manufacturer | Model No.     | Serial No. | Power Cord         |
|----------------|--------------|---------------|------------|--------------------|
| 1. Notebook PC | DELL         | Latitude 5491 | 1PL56S2    | Non-Shielded, 0.8m |

| Signal Cable Type     | Signal cable Description   |
|-----------------------|----------------------------|
| A. USB Cable          | Non-shielded, 1m           |
| B. Oscilloscope Cable | Non-shielded, 1m, two PCS. |

### 1.4. Configuration of Test System



### 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in section 1.4.
- (2) Execute software "Putty v0.62.0.0" on the EUT.
- (3) Windows PC connect for USB Cable. Normally, Software driver install automatically.
- (4) Starts the continuous transmit.
- (5) Verify that the EUT works correctly.

## 1.6. Test Facility

Ambient conditions in the laboratory:

| Performed Item     | Items            | Required | Actual  |
|--------------------|------------------|----------|---------|
| Conducted Emission | Temperature (°C) | 10~40 °C | 22.1 °C |
|                    | Humidity (%RH)   | 10~90 %  | 50 %    |
| Radiated Emission  | Temperature (°C) | 10~40 °C | 20 °C   |
|                    | Humidity (%RH)   | 10~90 %  | 65.3 %  |

**USA : FCC Registration Number: TW3023**

**Canada : IC Registration Number: 4075A**

Site Description: Accredited by TAF  
Accredited Number: 3023

Test Laboratory: DEKRA Testing and Certification Co., Ltd  
Address: No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451,  
Taiwan, R.O.C.  
Phone number: 886-2-8601-3788  
Fax number: 886-2-8601-3789  
Email address: [info.tw@dekra.com](mailto:info.tw@dekra.com)  
Website: <http://www.dekra.com.tw>

## 1.7. List of Test Equipment

### Conducted measurements /CB3/SR8

|   | Equipment             | Manufacturer | Model No. | Serial No.   | Cali. Date | Due. Date  |
|---|-----------------------|--------------|-----------|--------------|------------|------------|
| X | Temperature Chamber   | WIT GROUP    | TH-1S-B   | EQ-201-00146 | 2019/02/26 | 2020/02/25 |
| X | Spectrum Analyzer     | Agilent      | N9010A    | MY53470892   | 2019/09/25 | 2020/09/24 |
|   | Peak Power Analyzer   | Keysight     | 8990B     | MY51000410   | 2019/07/30 | 2020/07/29 |
|   | Wideband Power Sensor | Keysight     | N1923A    | MY56080003   | 2019/07/30 | 2020/07/29 |
|   | Wideband Power Sensor | Keysight     | N1923A    | MY56080004   | 2019/07/30 | 2020/07/29 |
| X | EMI Test Receiver     | R&S          | ESCS 30   | 100369       | 2019/11/19 | 2020/11/18 |
| X | LISN                  | R&S          | ENV216    | 101105       | 2019/04/10 | 2020/04/09 |
| X | LISN                  | R&S          | ESH3-Z5   | 836679/014   | 2019/04/10 | 2020/04/09 |
| X | Coaxial Cable         | DEKRA        | RG 400    | LC018-RG     | 2019/06/20 | 2020/06/19 |

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version :DEKRA Conduction Test SystemV9.0.5.

**For Radiated measurements /Site3/CB8**

|   | Equipment         | Manufacturer    | Model No.   | Serial No.            | Cali. Date | Due. Date  |
|---|-------------------|-----------------|-------------|-----------------------|------------|------------|
| X | Spectrum Analyzer | R&S             | FSP40       | 100170                | 2019/03/11 | 2020/03/10 |
| X | Loop Antenna      | Teseq           | HLA6121     | 37133                 | 2019/10/15 | 2021/10/14 |
| X | Bilog Antenna     | Schaffner Chase | CBL6112B    | 2794                  | 2019/06/23 | 2020/06/22 |
| X | Coaxial Cable     | DEKRA           | L1907-001C  | 280280.F141.1<br>000D | 2019/07/10 | 2020/07/09 |
| X | Amplifier         | EMCI            | EMC001330   | 980254                | 2019/08/22 | 2020/08/21 |
|   | Horn Antenna      | ETS-LINDGREN    | 3117        | 00228113              | 2019/05/02 | 2020/05/01 |
|   | Coaxial Cable     | DEKRA           | L1907-002C  | 280280.F141.1<br>000D | 2019/07/10 | 2020/07/09 |
|   | Amplifier         | EMCI            | EMC05820SE  | 980362                | 2019/06/26 | 2020/06/25 |
|   | Amplifier         | EMCI            | EMC051845SE | SN980632              | 2019/08/08 | 2020/08/07 |
|   | Horn Antenna      | Com-Power       | AH-1840     | 101101                | 2019/10/29 | 2020/10/30 |
|   | Amplifier + Cable | EMCI            | EMC184045SE | 980369                | 2019/04/16 | 2020/04/15 |
|   | Bilog Antenna     | Schaffner Chase | CBL6112B    | 2916                  | 2019/06/23 | 2020/06/22 |
|   | Coaxial Cable     | DEKRA           | L1907-003C  | 00100A1B3A<br>120M    | 2019/07/10 | 2020/07/09 |
|   | Amplifier         | EMCI            | EMC001330   | 980255                | 2019/06/28 | 2020/06/27 |
|   | Filter            | MICRO-TRONICS   | BRM50702    | G270                  | 2019/08/08 | 2020/08/07 |
|   | Filter            | MICRO-TRONICS   | BRM50716    | G196                  | 2019/08/08 | 2020/08/07 |

**Note:**

1. Loop Antenna is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version :QuiTek EMI System V2.1.134.



## **1.8. Uncertainty**

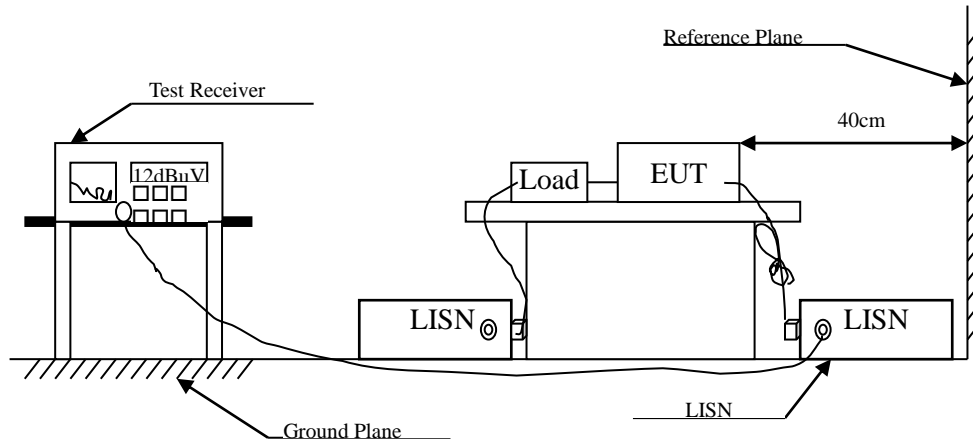
Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

## 2. Conducted Emission

### 2.1. Test Setup



### 2.2. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit |        |       |
|---|--------|-------|
| Frequency<br>MHz                                    | Limits |       |
|   | QP     | AV    |
| 0.15 - 0.50   | 66-56  | 56-46 |
| 0.50-5.0  | 56     | 46    |
| 5.0 - 30  | 60     | 50    |

Remarks: In the above table, the tighter limit applies at the band edges.

### 2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

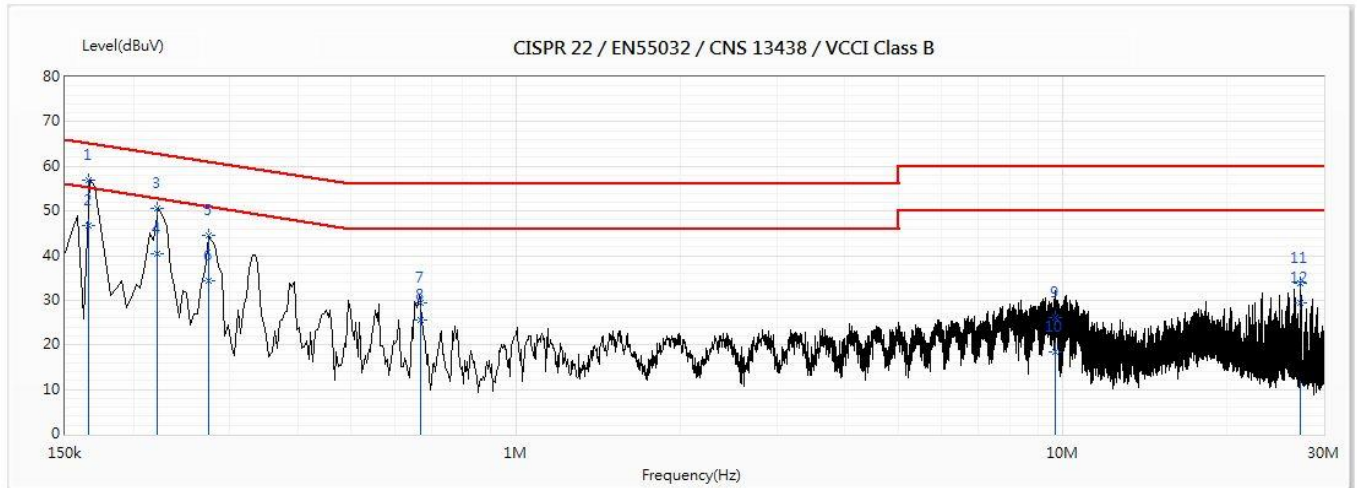
### 2.4. Uncertainty

$\pm 2.26$  dB

## 2.5. Test Result of Conducted Emission

Product : WiWi module  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Date : 2019/12/25  
 Test Mode : Mode 1: Transmit (922.7MHz)

### Line 1



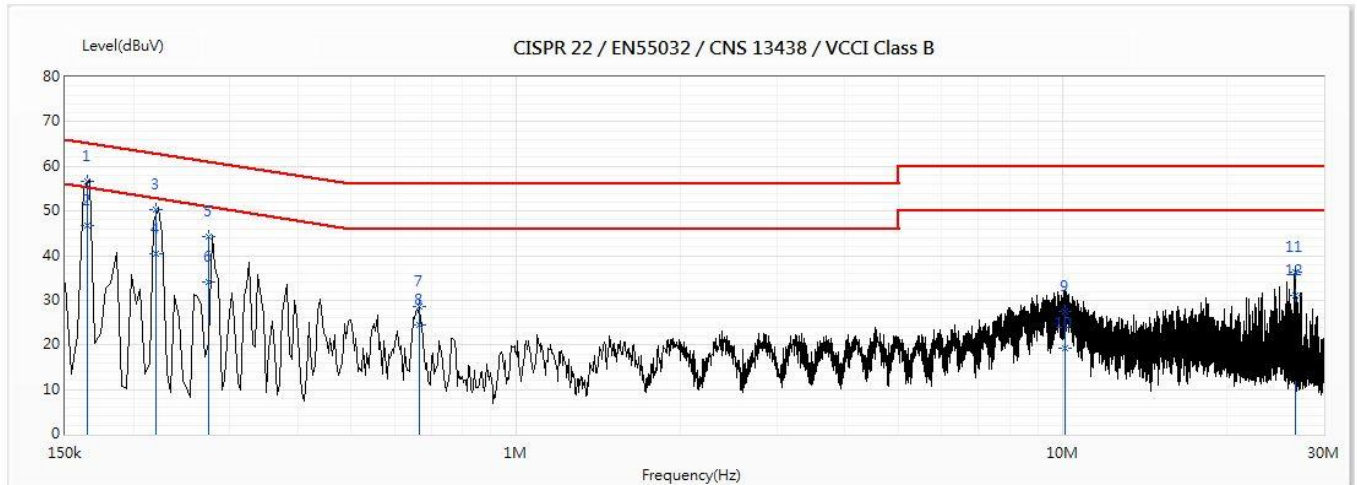
| No | Frequency<br>(MHz) | Emission Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB) | Detector<br>Type |
|----|--------------------|--------------------------|-----------------|----------------|-------------------------|------------------------|------------------|
| *1 | 0.165              | 56.98                    | 65.20           | -8.22          | 47.29                   | 9.69                   | QP               |
| 2  | 0.165              | 46.78                    | 55.20           | -8.42          | 37.09                   | 9.69                   | AV               |
| 3  | 0.22               | 50.49                    | 62.81           | -12.32         | 40.79                   | 9.69                   | QP               |
| 4  | 0.22               | 40.35                    | 52.81           | -12.46         | 30.66                   | 9.69                   | AV               |
| 5  | 0.275              | 44.55                    | 60.98           | -16.43         | 34.86                   | 9.69                   | QP               |
| 6  | 0.275              | 34.24                    | 50.98           | -16.74         | 24.55                   | 9.69                   | AV               |
| 7  | 0.668              | 29.38                    | 56.00           | -26.62         | 19.67                   | 9.71                   | QP               |
| 8  | 0.668              | 25.58                    | 46.00           | -20.42         | 15.87                   | 9.71                   | AV               |
| 9  | 9.694              | 26.04                    | 60.00           | -33.96         | 16.03                   | 10.01                  | QP               |
| 10 | 9.694              | 18.29                    | 50.00           | -31.71         | 8.28                    | 10.01                  | AV               |
| 11 | 27.159             | 33.88                    | 60.00           | -26.12         | 23.65                   | 10.23                  | QP               |
| 12 | 27.159             | 29.37                    | 50.00           | -20.63         | 19.14                   | 10.23                  | AV               |

#### Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : WiWi module  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Date : 2019/12/25  
 Test Mode : Mode 1: Transmit (922.7MHz)

## Line 2



| No | Frequency (MHz) | Emission Level (dBuV) | Limit (dBuV) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|----|-----------------|-----------------------|--------------|-------------|----------------------|---------------------|---------------|
| *1 | 0.165           | 56.68                 | 65.22        | -8.54       | 46.95                | 9.73                | QP            |
| 2  | 0.165           | 46.60                 | 55.22        | -8.62       | 36.87                | 9.73                | AV            |
| 3  | 0.22            | 50.20                 | 62.83        | -12.63      | 40.48                | 9.72                | QP            |
| 4  | 0.22            | 40.34                 | 52.83        | -12.48      | 30.62                | 9.72                | AV            |
| 5  | 0.274           | 44.33                 | 60.99        | -16.66      | 34.61                | 9.72                | QP            |
| 6  | 0.274           | 34.18                 | 50.99        | -16.82      | 24.45                | 9.72                | AV            |
| 7  | 0.667           | 28.50                 | 56.00        | -27.50      | 18.75                | 9.74                | QP            |
| 8  | 0.667           | 24.59                 | 46.00        | -21.41      | 14.85                | 9.74                | AV            |
| 9  | 10.092          | 27.48                 | 60.00        | -32.52      | 17.39                | 10.09               | QP            |
| 10 | 10.092          | 19.32                 | 50.00        | -30.68      | 9.22                 | 10.09               | AV            |
| 11 | 26.609          | 36.25                 | 60.00        | -23.75      | 25.79                | 10.47               | QP            |
| 12 | 26.609          | 30.94                 | 50.00        | -19.06      | 20.47                | 10.47               | AV            |

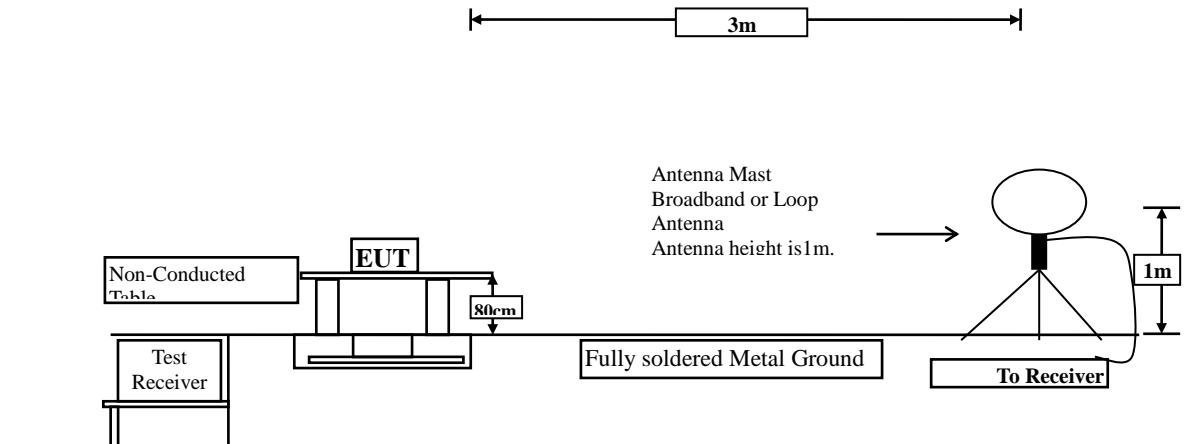
### Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

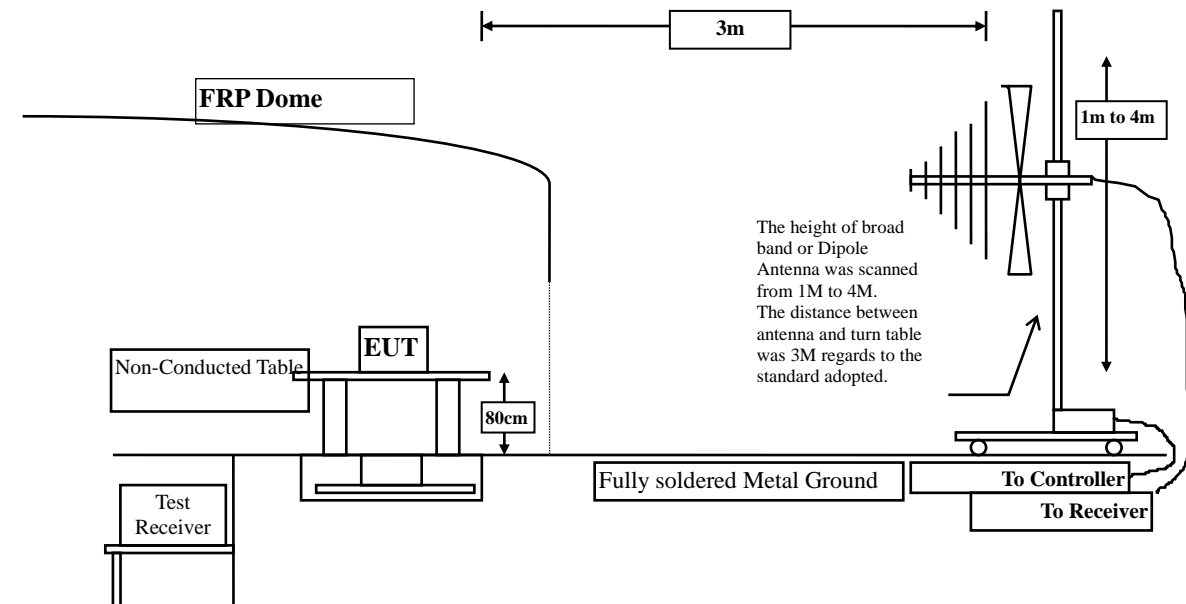
### 3. Radiated Emission

#### 3.1. Test Setup

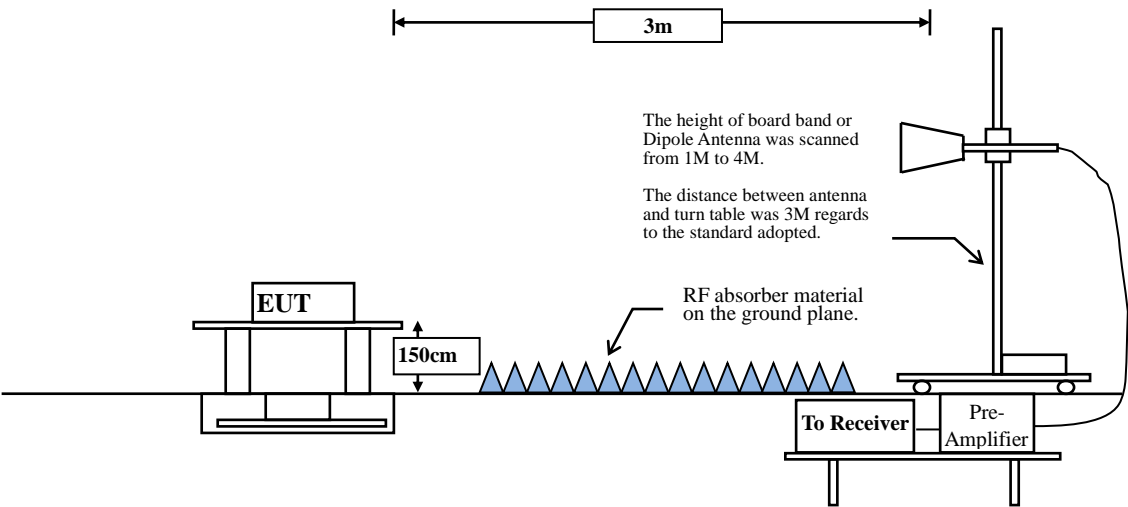
Under 30MHz



Below 1GHz



Above 1GHz



### 3.2. Limits

#### ➤ Fundamental and Harmonics Emission Limits

| FCC Part 15 Subpart C Paragraph 15.249 Limits |                               |              |                             |              |
|---|-------------------------------|--------------|-----------------------------|--------------|
| Frequency<br>MHz                              | Field Strength of Fundamental |              | Field Strength of Harmonics |              |
|   | (mV/m @3m)                    | (dBuV/m @3m) | (uV/m @3m)                  | (dBuV/m @3m) |
| 902-928                                       | 50                            | 94           | 500                         | 54           |
| 2400-2483.5                                   | 50                            | 94           | 500                         | 54           |
| 5725-5875                                     | 50                            | 94           | 500                         | 54           |

Remarks : 1. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)  
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

#### ➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 Limits |                                      |                                 |
|---|--------------------------------------|---------------------------------|
| Frequency<br>MHz                              | Field strength<br>(microvolts/meter) | Measurement distance<br>(meter) |
| 0.009-0.490                                   | 2400/F(kHz)                          | 300                             |
| 0.490-1.705                                   | 24000/F(kHz)                         | 30                              |
| 1.705-30                                      | 30                                   | 30                              |
| 30-88   | 100                                  | 3                               |
| 88-216  | 150                                  | 3                               |
| 216-960                                       | 200                                  | 3                               |
| Above 960                                     | 500                                  | 3                               |

Remarks : 1. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)  
 2. In the Above Table, the tighter limit applies at the band edges.  
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.



### 3.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.249 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

### 3.4. Uncertainty

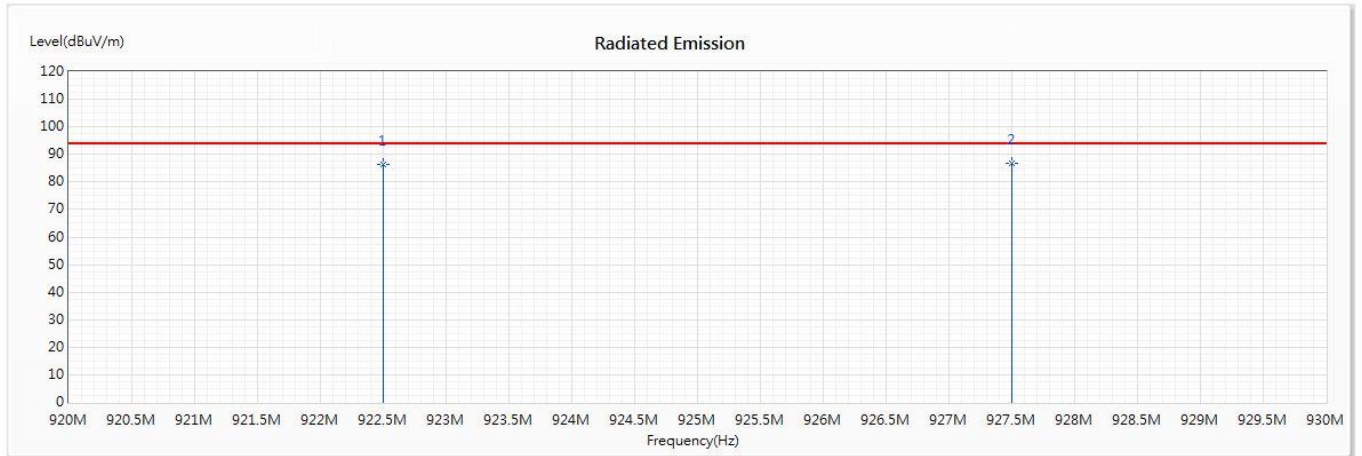
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

### 3.5. Test Result of Radiated Emission

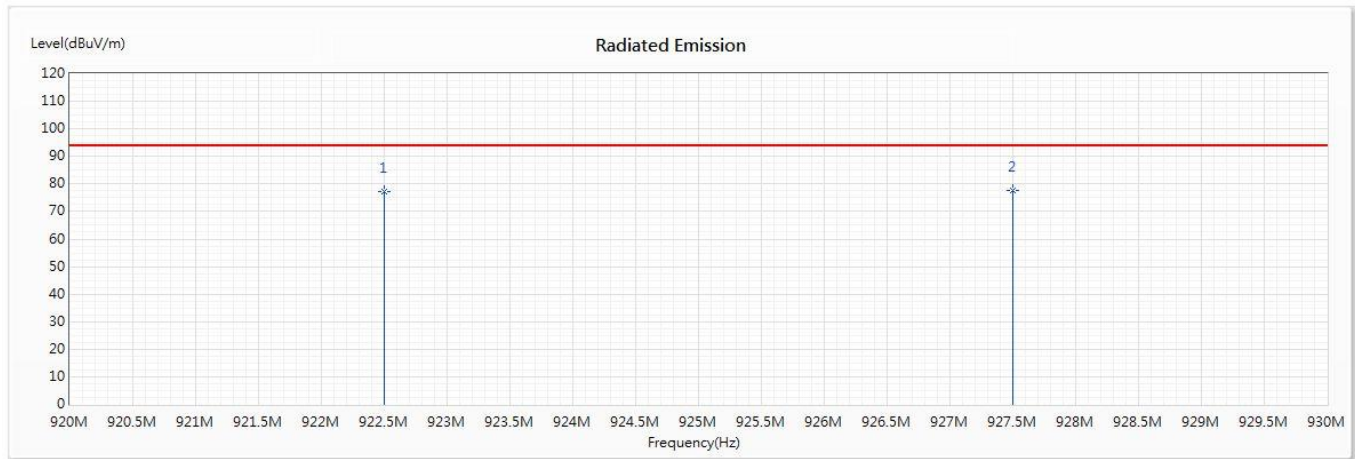
Product : WiWi module  
 Test Item : Fundamental Radiated Emission  
 Test Site : No.3OATS  
 Test Date : 2019/12/05  
 Test Mode : Mode 1: Transmit (X-asix )

#### Horizontal



| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| 1   | 922.5              | 86.38                      | 94.00             | -7.62          | 96.50                   | -10.12                   | QP               |
| * 2 | 927.5              | 86.86                      | 94.00             | -7.14          | 96.60                   | -9.74                    | QP               |

Vertical



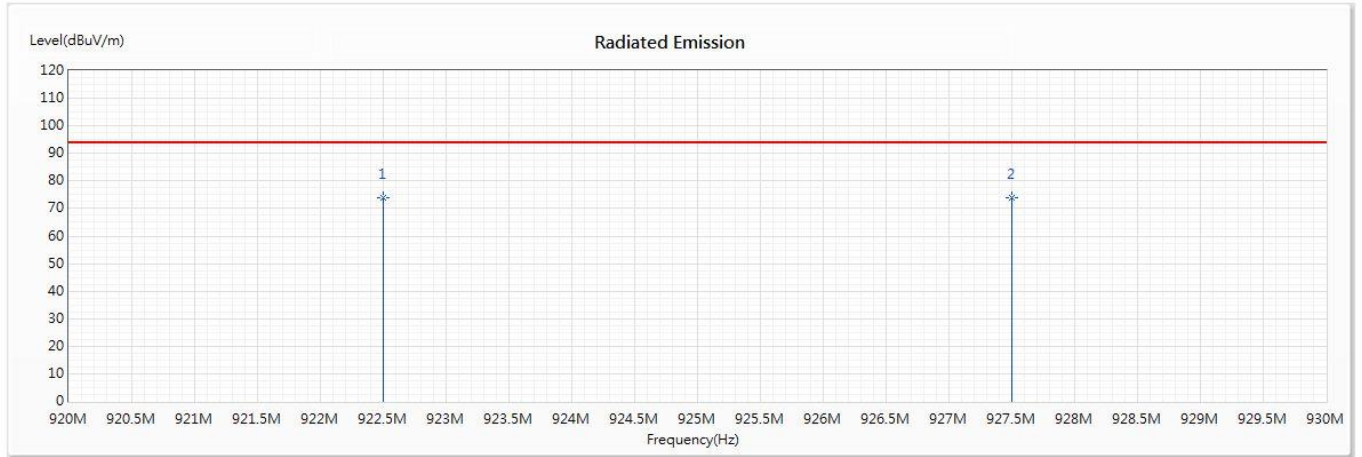
| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| 1   | 922.5              | 77.08                      | 94.00             | -16.92         | 87.20                   | -10.12                   | QP               |
| * 2 | 927.5              | 77.76                      | 94.00             | -16.24         | 87.50                   | -9.74                    | QP               |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

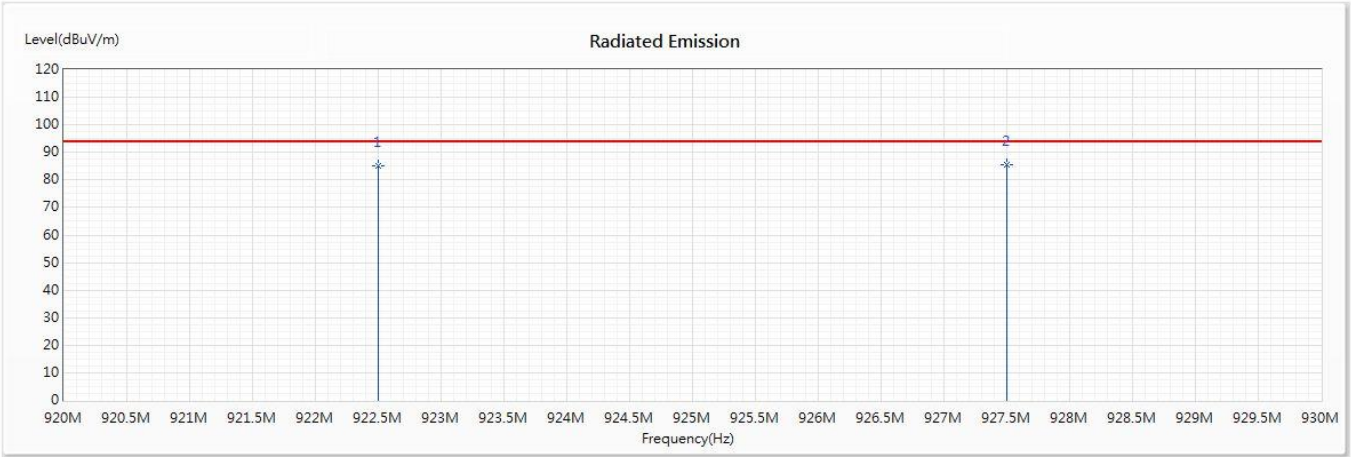
Product : WiWi module  
 Test Item : Fundamental Radiated Emission  
 Test Site : No.3OATS  
 Test Date : 2019/12/05  
 Test Mode : Mode 1: Transmit (Y-asix )

## Horizontal



| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| 1   | 922.5              | 73.78                      | 94.00             | -20.22         | 83.90                   | -10.12                   | QP               |
| * 2 | 927.5              | 73.86                      | 94.00             | -20.14         | 83.60                   | -9.74                    | QP               |

Vertical



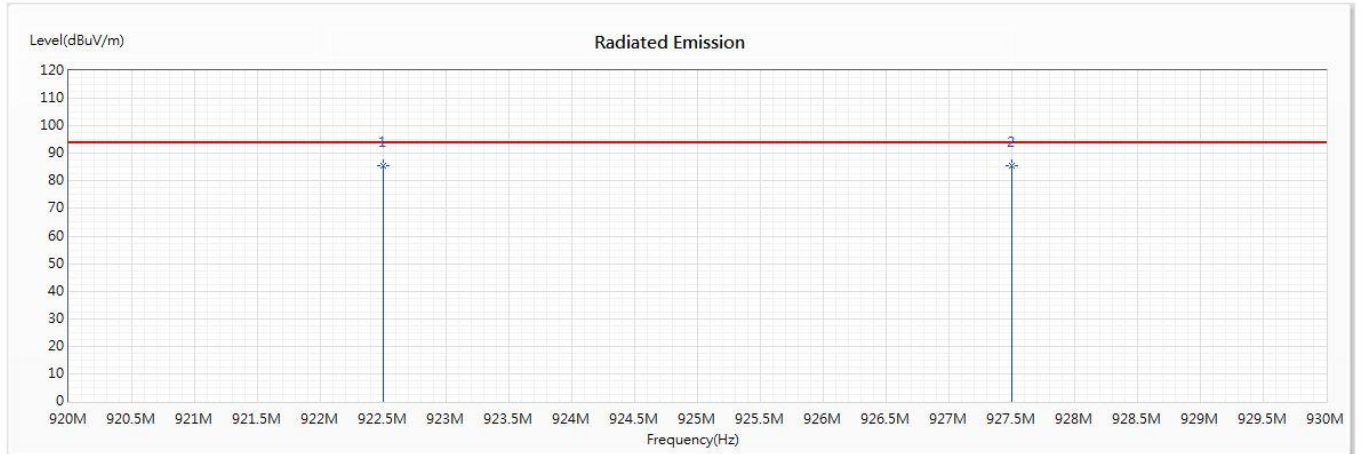
| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| 1   | 922.5              | 85.28                      | 94.00             | -8.72          | 95.40                   | -10.12                   | QP               |
| * 2 | 927.5              | 85.36                      | 94.00             | -8.64          | 95.10                   | -9.74                    | QP               |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

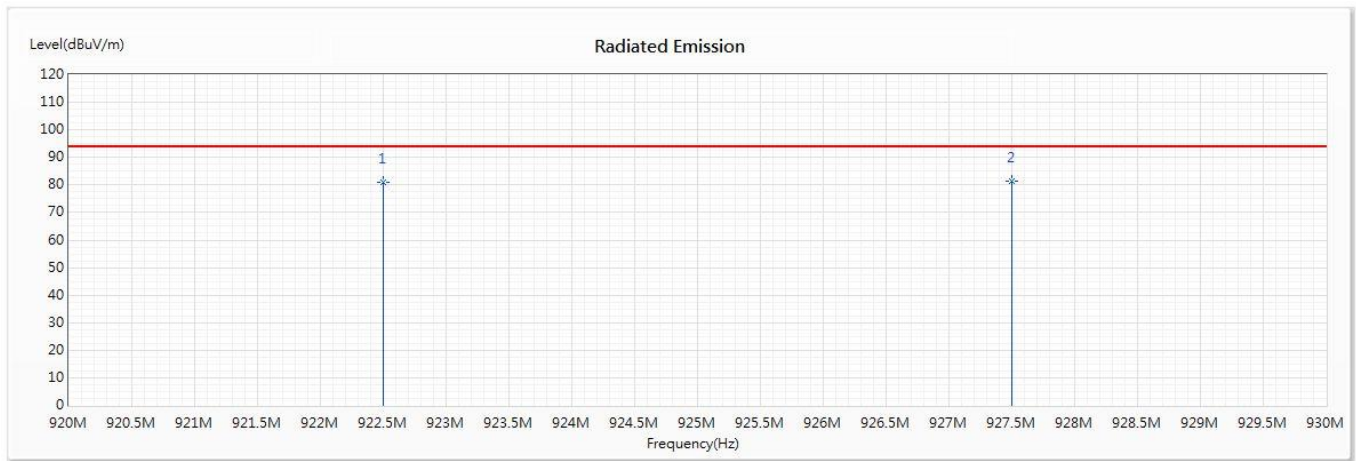
Product : WiWi module  
 Test Item : Fundamental Radiated Emission  
 Test Site : No.3OATS  
 Test Date : 2019/12/05  
 Test Mode : Mode 1: Transmit (Z-asix )

## Horizontal



| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| * 1 | 922.5              | 85.68                      | 94.00             | -8.32          | 95.80                   | -10.12                   | QP               |
| 2   | 927.5              | 85.46                      | 94.00             | -8.54          | 95.20                   | -9.74                    | QP               |

Vertical



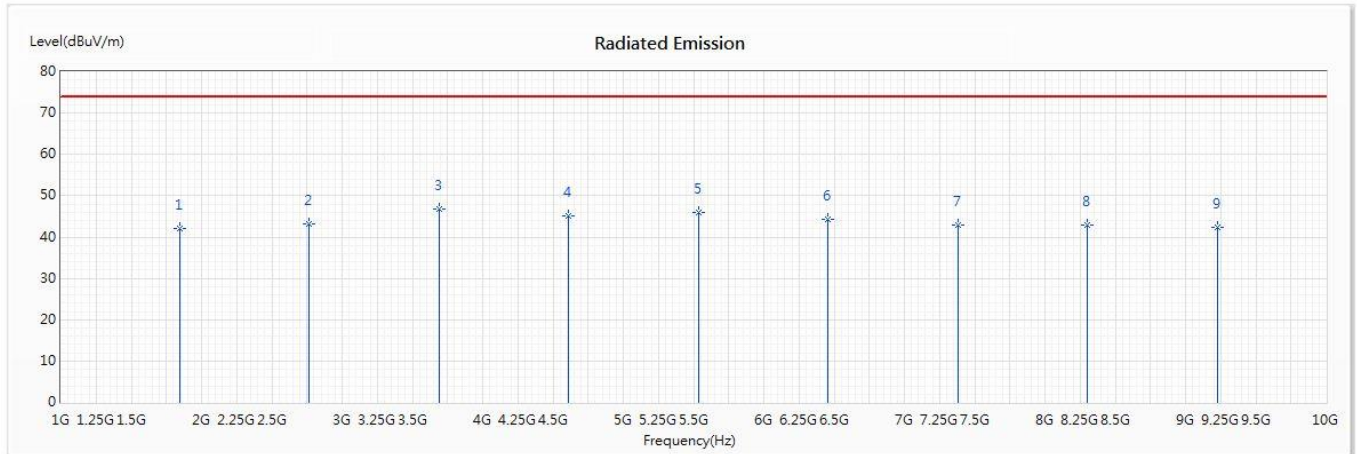
| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| 1   | 922.5              | 80.78                      | 94.00             | -13.22         | 90.90                   | -10.12                   | QP               |
| * 2 | 927.5              | 81.36                      | 94.00             | -12.64         | 91.10                   | -9.74                    | QP               |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Product : WiWi module  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (922.5MHz)

### Horizontal (Peak Detector)



| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| 1   | 1845               | 42.20                      | 74.00             | -31.80         | 59.66                   | -17.46                   | PK               |
| 2   | 2767.5             | 43.32                      | 74.00             | -30.68         | 57.94                   | -14.62                   | PK               |
| * 3 | 3690               | 46.72                      | 74.00             | -27.28         | 57.68                   | -10.96                   | PK               |
| 4   | 4612.5             | 45.02                      | 74.00             | -28.98         | 57.38                   | -12.36                   | PK               |
| 5   | 5535               | 45.95                      | 74.00             | -28.05         | 56.89                   | -10.94                   | PK               |
| 6   | 6457.5             | 44.20                      | 74.00             | -29.80         | 56.95                   | -12.75                   | PK               |
| 7   | 7380               | 42.85                      | 74.00             | -31.15         | 56.89                   | -14.04                   | PK               |
| 8   | 8302.5             | 42.82                      | 74.00             | -31.18         | 57.62                   | -14.80                   | PK               |
| 9   | 9225               | 42.23                      | 74.00             | -31.77         | 56.12                   | -13.89                   | PK               |

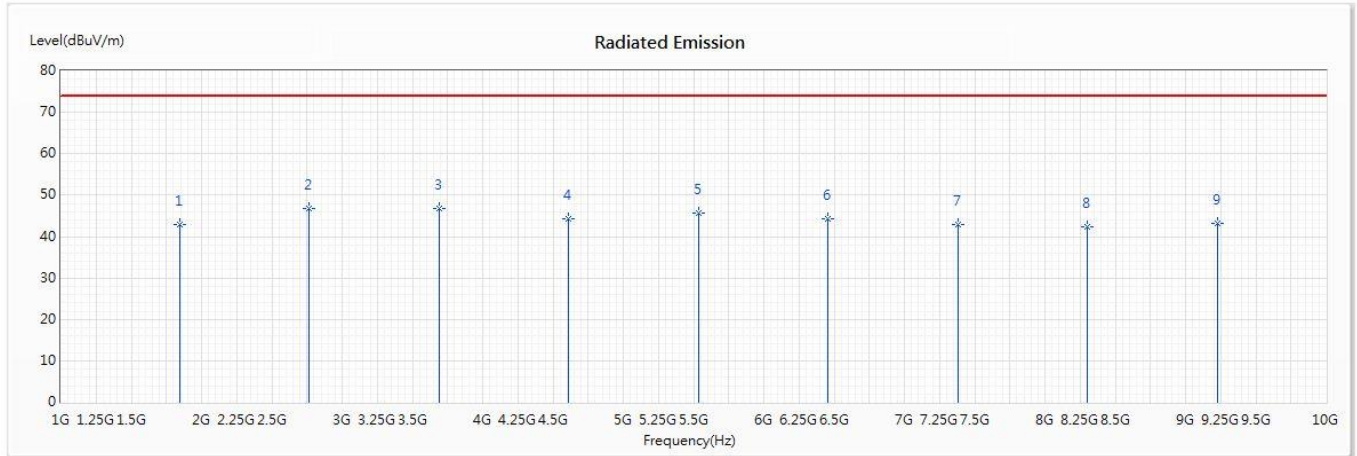
#### Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product : WiWi module  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (922.5MHz)

### Vertical (Peak Detector)



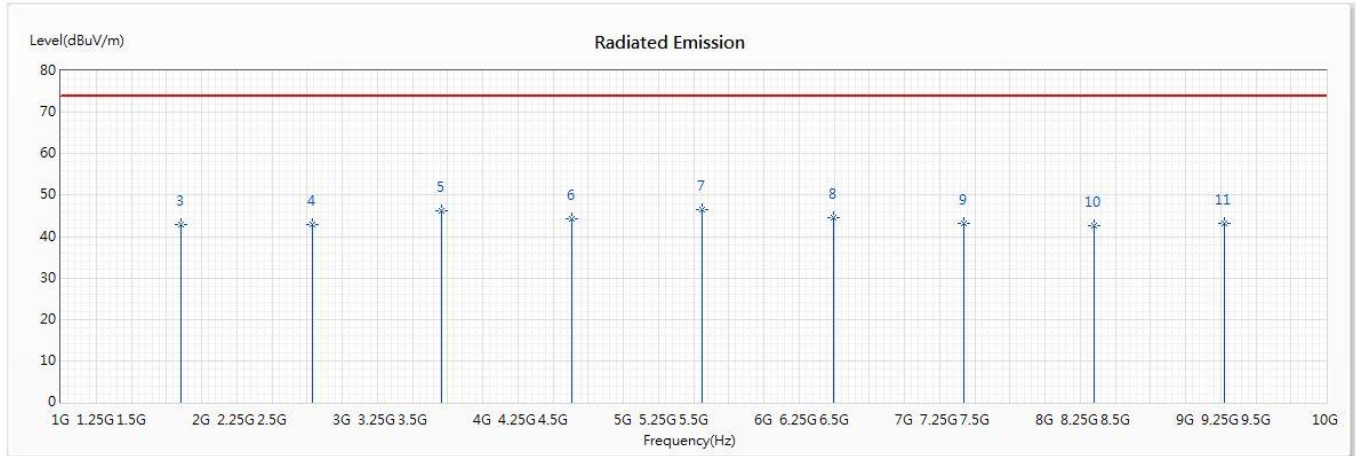
| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| 1   | 1845               | 42.97                      | 74.00             | -31.03         | 60.43                   | -17.46                   | PK               |
| 2   | 2767.5             | 46.65                      | 74.00             | -27.35         | 61.27                   | -14.62                   | PK               |
| * 3 | 3690               | 46.87                      | 74.00             | -27.13         | 57.83                   | -10.96                   | PK               |
| 4   | 4612.5             | 44.37                      | 74.00             | -29.63         | 56.73                   | -12.36                   | PK               |
| 5   | 5535               | 45.62                      | 74.00             | -28.38         | 56.56                   | -10.94                   | PK               |
| 6   | 6457.5             | 44.41                      | 74.00             | -29.59         | 57.16                   | -12.75                   | PK               |
| 7   | 7380               | 42.78                      | 74.00             | -31.22         | 56.82                   | -14.04                   | PK               |
| 8   | 8302.5             | 42.36                      | 74.00             | -31.64         | 57.16                   | -14.80                   | PK               |
| 9   | 9225               | 43.13                      | 74.00             | -30.87         | 57.02                   | -13.89                   | PK               |

### Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : WiWi module  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (927.5MHz)

### Horizontal (Peak Detector)



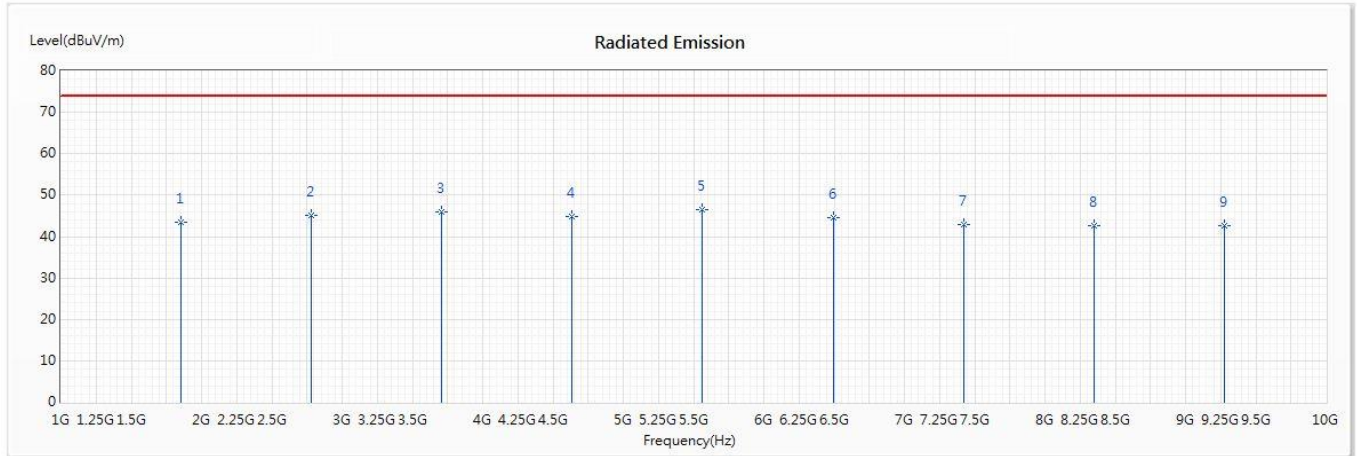
| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 9.275           | 43.27                   | 74.00          | -30.73      | 65.20                | -21.93                | PK            |
| 2   | 9.275           | 43.27                   | 74.00          | -30.73      | 65.20                | -21.93                | PK            |
| 3   | 1855            | 42.83                   | 74.00          | -31.17      | 60.13                | -17.30                | PK            |
| 4   | 2785.25         | 42.97                   | 74.00          | -31.03      | 57.49                | -14.52                | PK            |
| 5   | 3710            | 46.26                   | 74.00          | -27.74      | 57.10                | -10.84                | PK            |
| 6   | 4637.5          | 44.16                   | 74.00          | -29.84      | 56.52                | -12.36                | PK            |
| * 7 | 5565            | 46.42                   | 74.00          | -27.58      | 57.54                | -11.12                | PK            |
| 8   | 6492.5          | 44.67                   | 74.00          | -29.33      | 57.80                | -13.13                | PK            |
| 9   | 7420            | 43.12                   | 74.00          | -30.88      | 57.54                | -14.42                | PK            |
| 10  | 8347.5          | 42.54                   | 74.00          | -31.46      | 57.70                | -15.16                | PK            |
| 11  | 9275            | 43.27                   | 74.00          | -30.73      | 57.15                | -13.88                | PK            |

#### Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : WiWi module  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (927.5MHz)

### Vertical (Peak Detector)



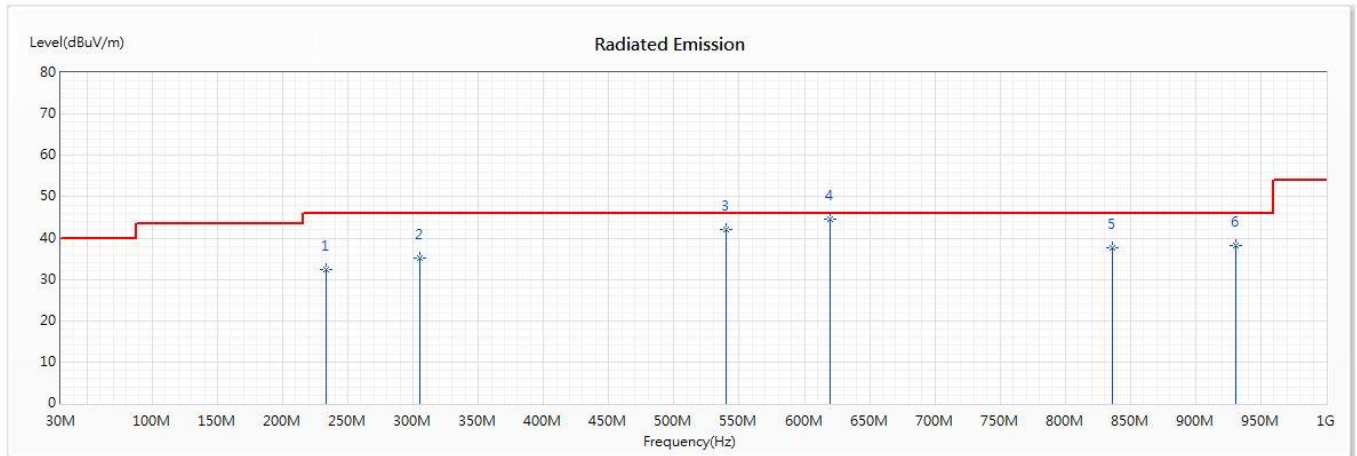
| No  | Frequency<br>(MHz) | Emission Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Reading Level<br>(dBuV) | Correct Factor<br>(dB/m) | Detector<br>Type |
|-----|--------------------|----------------------------|-------------------|----------------|-------------------------|--------------------------|------------------|
| 1   | 1855               | 43.43                      | 74.00             | -30.57         | 60.73                   | -17.30                   | PK               |
| 2   | 2782.5             | 45.17                      | 74.00             | -28.83         | 59.71                   | -14.54                   | PK               |
| 3   | 3710               | 45.99                      | 74.00             | -28.01         | 56.83                   | -10.84                   | PK               |
| 4   | 4637.5             | 44.78                      | 74.00             | -29.22         | 57.14                   | -12.36                   | PK               |
| * 5 | 5565               | 46.52                      | 74.00             | -27.48         | 57.64                   | -11.12                   | PK               |
| 6   | 6492.5             | 44.70                      | 74.00             | -29.30         | 57.83                   | -13.13                   | PK               |
| 7   | 7420               | 42.84                      | 74.00             | -31.16         | 57.26                   | -14.42                   | PK               |
| 8   | 8347.5             | 42.62                      | 74.00             | -31.38         | 57.78                   | -15.16                   | PK               |
| 9   | 9275               | 42.72                      | 74.00             | -31.28         | 56.60                   | -13.88                   | PK               |

### Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : WiWi module  
 Test Item : General Radiated Emission Data (above 30MHz)  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (922.5MHz)

## Horizontal



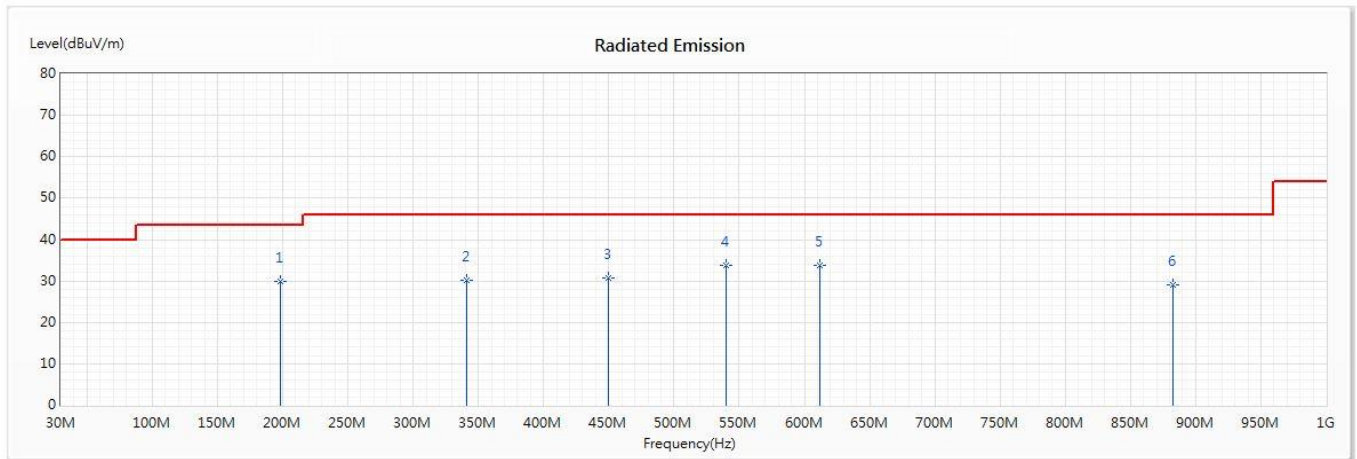
| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 233.7           | 32.40                   | 46.00          | -13.60      | 50.36                | -17.96                | QP            |
| 2   | 305.48          | 35.18                   | 46.00          | -10.82      | 49.70                | -14.52                | QP            |
| 3   | 540.22          | 42.14                   | 46.00          | -3.86       | 53.54                | -11.40                | QP            |
| * 4 | 619.76          | 44.63                   | 46.00          | -1.37       | 52.69                | -8.06                 | QP            |
| 5   | 836.07          | 37.62                   | 46.00          | -8.38       | 46.15                | -8.53                 | QP            |
| 6   | 931.13          | 38.29                   | 46.00          | -7.71       | 47.74                | -9.45                 | QP            |

### Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : WiWi module  
 Test Item : General Radiated Emission Data (above 30MHz)  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (922.5MHz)

## Vertical



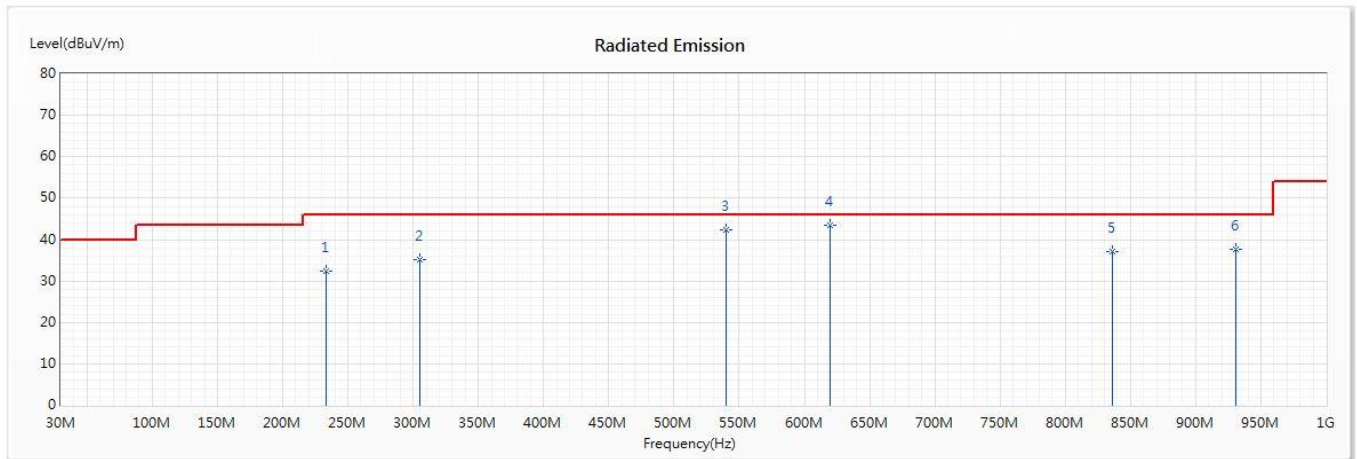
| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 197.81          | 30.03                   | 43.50          | -13.47      | 48.30                | -18.27                | QP            |
| 2   | 341.37          | 30.04                   | 46.00          | -15.96      | 43.92                | -13.88                | QP            |
| 3   | 450.01          | 30.67                   | 46.00          | -15.33      | 40.80                | -10.13                | QP            |
| * 4 | 540.22          | 33.79                   | 46.00          | -12.21      | 45.19                | -11.40                | QP            |
| 5   | 612             | 33.71                   | 46.00          | -12.29      | 41.21                | -7.50                 | QP            |
| 6   | 882.63          | 29.09                   | 46.00          | -16.91      | 37.68                | -8.59                 | QP            |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : WiWi module  
 Test Item : General Radiated Emission Data (above 30MHz)  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (927.5MHz)

### Horizontal



| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 233.7           | 32.41                   | 46.00          | -13.59      | 50.37                | -17.96                | QP            |
| 2   | 305.48          | 35.05                   | 46.00          | -10.95      | 49.57                | -14.52                | QP            |
| 3   | 540.22          | 42.31                   | 46.00          | -3.69       | 53.71                | -11.40                | QP            |
| * 4 | 619.76          | 43.47                   | 46.00          | -2.53       | 51.53                | -8.06                 | QP            |
| 5   | 836.07          | 37.08                   | 46.00          | -8.92       | 45.61                | -8.53                 | QP            |
| 6   | 931.13          | 37.63                   | 46.00          | -8.37       | 47.08                | -9.45                 | QP            |

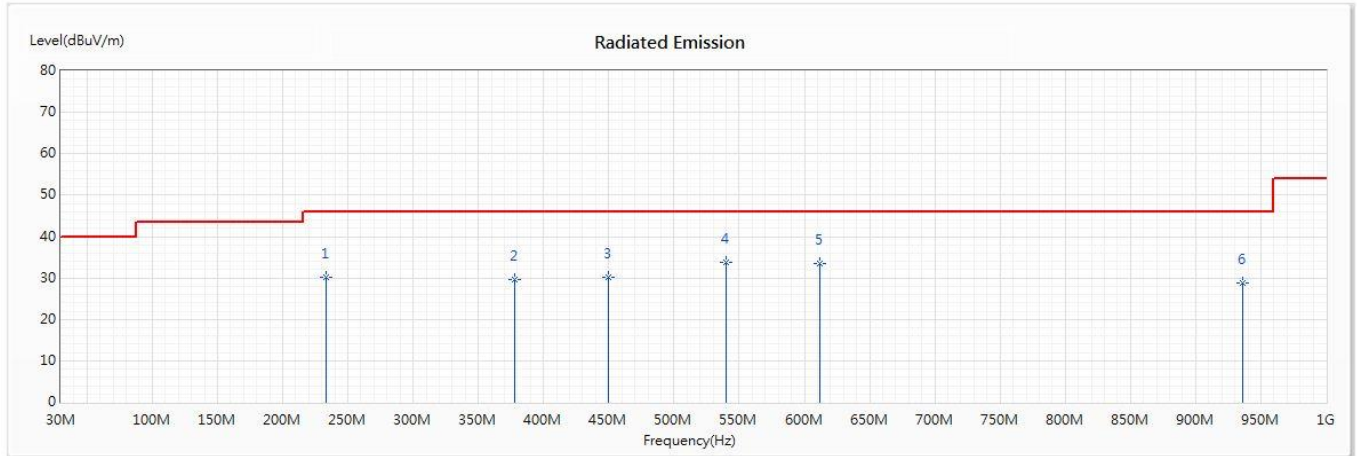
### Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.



Product : WiWi module  
 Test Item : General Radiated Emission Data (above 30MHz)  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (927.5MHz)

## Vertical



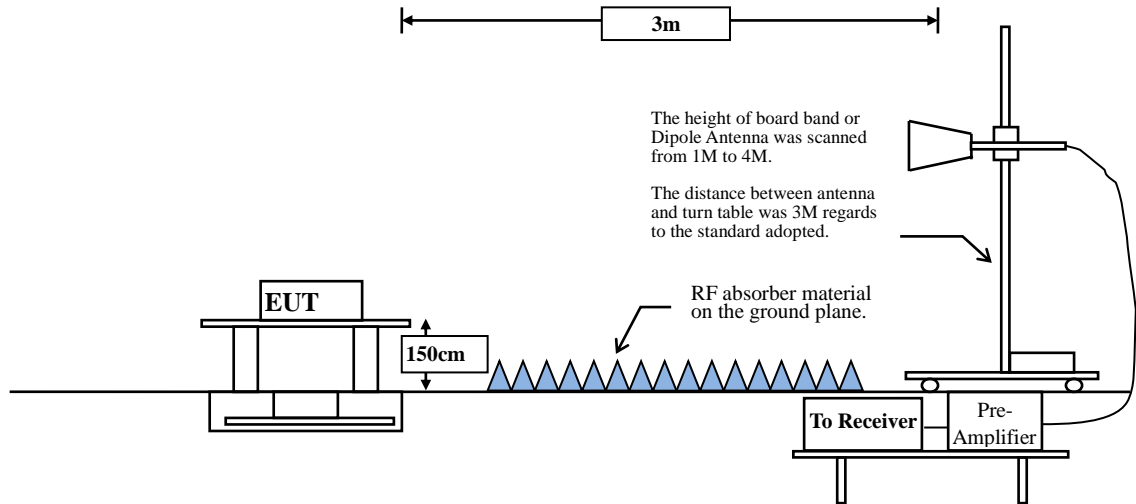
| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 233.7           | 30.30                   | 46.00          | -15.70      | 48.26                | -17.96                | QP            |
| 2   | 378.23          | 29.51                   | 46.00          | -16.49      | 41.60                | -12.09                | QP            |
| 3   | 450.01          | 30.25                   | 46.00          | -15.75      | 40.38                | -10.13                | QP            |
| * 4 | 540.22          | 33.90                   | 46.00          | -12.10      | 45.30                | -11.40                | QP            |
| 5   | 612             | 33.51                   | 46.00          | -12.49      | 41.01                | -7.50                 | QP            |
| 6   | 935.98          | 28.82                   | 46.00          | -17.18      | 37.91                | -9.09                 | QP            |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

## 4. Band Edge

### 4.1. Test Setup





## **4.2. Limit**

Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

## **4.3. Test Procedure**

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

## **4.4. Uncertainty**

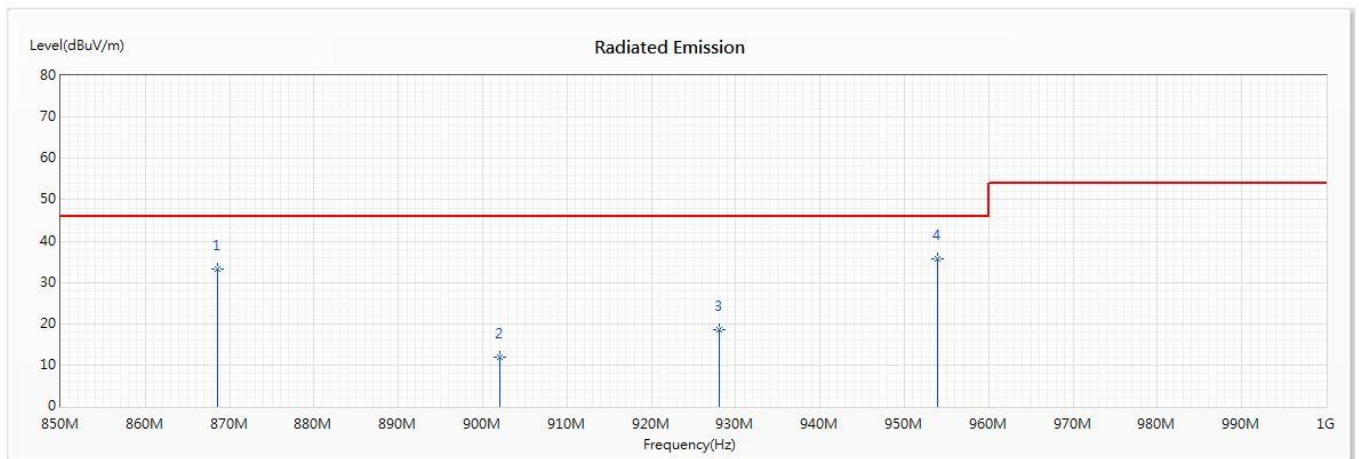
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

#### 4.5. Test Result of Band Edge

Product : WiWi module  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (922.5MHz)

##### RF Radiated Measurement (Horizontal):



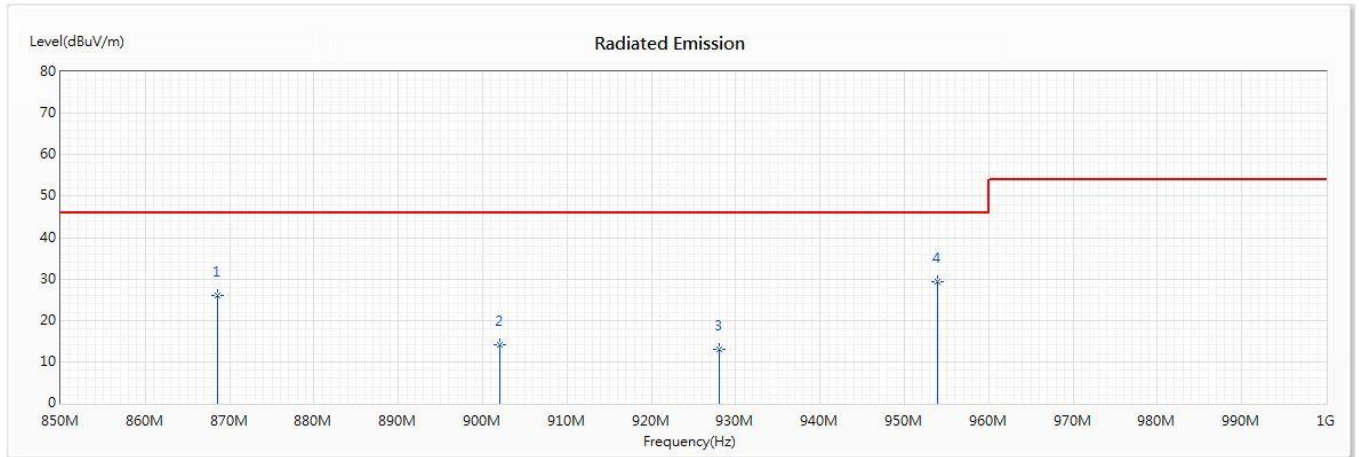
| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 868.54          | 33.18                   | 46.00          | -12.82      | 41.59                | -8.41                 | QP            |
| 2   | 902             | 12.02                   | 46.00          | -33.98      | 21.90                | -9.88                 | QP            |
| 3   | 928             | 18.60                   | 46.00          | -27.40      | 28.31                | -9.71                 | QP            |
| * 4 | 953.99          | 35.66                   | 46.00          | -10.34      | 44.21                | -8.55                 | QP            |

Note:

1. Quasi-Peak measurements: RBW=100kHz, VBW=1MHz, Sweep: Auto.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : WiWi module  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (922.5MHz)

### RF Radiated Measurement (Vertical):



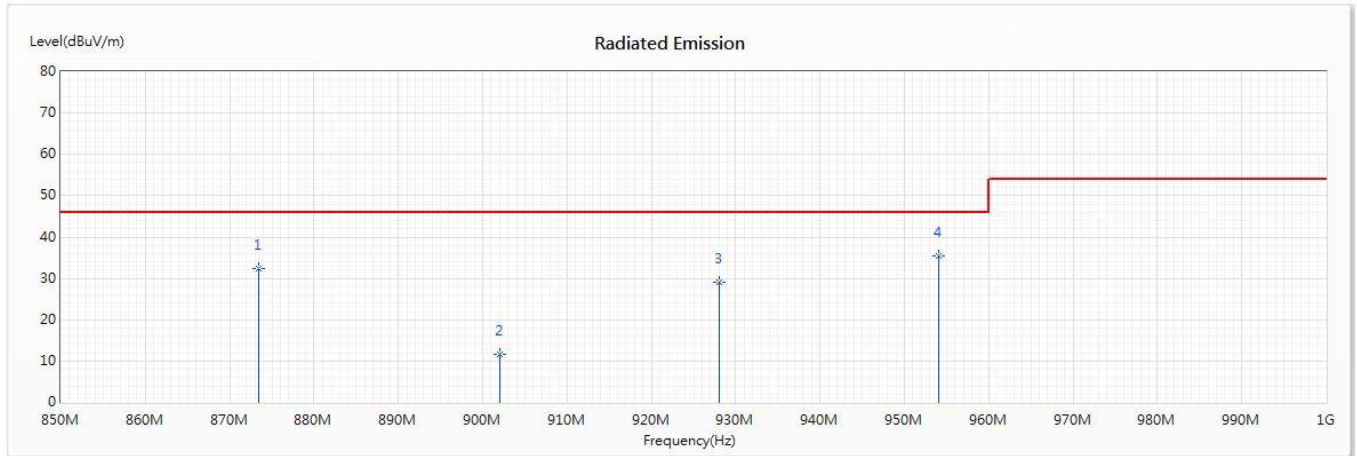
| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 868.55          | 26.08                   | 46.00          | -19.92      | 34.49                | -8.41                 | QP            |
| 2   | 902             | 14.02                   | 46.00          | -31.98      | 23.90                | -9.88                 | QP            |
| 3   | 928             | 13.10                   | 46.00          | -32.90      | 22.81                | -9.71                 | QP            |
| * 4 | 953.99          | 29.26                   | 46.00          | -16.74      | 37.81                | -8.55                 | QP            |

#### Note:

1. Quasi-Peak measurements: RBW=100kHz, VBW=1MHz, Sweep: Auto.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : WiWi module  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (927.5MHz)

### RF Radiated Measurement (Horizontal):



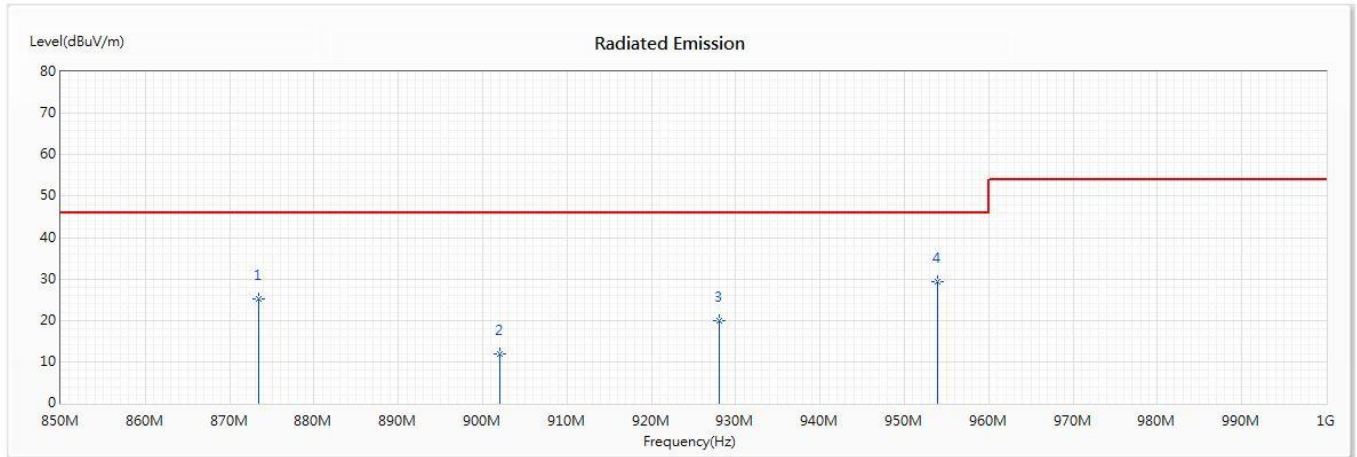
| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 873.45          | 32.29                   | 46.00          | -13.71      | 40.70                | -8.41                 | QP            |
| 2   | 902             | 11.72                   | 46.00          | -34.28      | 21.60                | -9.88                 | QP            |
| 3   | 928             | 29.00                   | 46.00          | -17.00      | 38.71                | -9.71                 | QP            |
| * 4 | 954             | 35.36                   | 46.00          | -10.64      | 43.91                | -8.55                 | QP            |

### Note:

1. Quasi-Peak measurements: RBW=100kHz, VBW=1MHz, Sweep: Auto.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : WiWi module  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Date : 2019/12/06  
 Test Mode : Mode 1: Transmit (927.5MHz)

### RF Radiated Measurement (Vertical):



| No  | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB/m) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|-----------------------|---------------|
| 1   | 873.46          | 25.29                   | 46.00          | -20.71      | 33.70                | -8.41                 | QP            |
| 2   | 902             | 11.82                   | 46.00          | -34.18      | 21.70                | -9.88                 | QP            |
| 3   | 928             | 20.00                   | 46.00          | -26.00      | 29.71                | -9.71                 | QP            |
| * 4 | 953.99          | 29.36                   | 46.00          | -16.64      | 37.91                | -8.55                 | QP            |

#### Note:

1. Quasi-Peak measurements: RBW=100kHz,VBW=1MHz,Sweep: Auto.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

## **5. EMI Reduction Method During Compliance Testing**

No modification was made during testing.