

FCC RF Test Report

| APPLICANT | : | Redpine Signals Inc. |
|----------------|---|--|
| EQUIPMENT | : | 802.11 abgn MODULE |
| BRAND NAME | : | Redpine Signals |
| MODEL NAME | : | RS9110-N-11-03 |
| FCC ID | : | XF6-RS9110N1103 |
| STANDARD | : | FCC Part 15 Subpart E §15.407 |
| CLASSIFICATION | : | (NII) Unlicensed National Information Infrastructure |

This is a partial report which is included the conducted power, Radiated Band Edges and Radiated Spurious Emission, and AC Conducted Emission test items. The product was received on Jul. 22, 2014 and testing was completed on Sep. 03, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

hhr

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC. No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : XF6-RS9110N1103 Page Number : 1 of 33 Report Issued Date : Sep. 05, 2014 Report Version : Rev. 01 Report Template No.: BU5-FR15EWL Version 1.0



TABLE OF CONTENTS

| RE | VISION | N HISTORY | 3 |
|-----|--|---|-------------------|
| SUI | MMAR | Y OF TEST RESULT | 4 |
| 1 | GENE | RAL DESCRIPTION | 5 |
| | 1.1 1.2 1.3 1.4 1.5 | Applicant Manufacturer Product Feature of Equipment Under Test Product Specification subjective to this standard Modification of EUT | 5 5 5 |
| | 1.6 1.7 | Testing Location Applicable Standards | |
| 2 | TEST | CONFIGURATION OF EQUIPMENT UNDER TEST | 7 |
| | 2.1 2.2 2.3 2.4 2.5 2.6 | Carrier Frequency Channel Pre-Scanned RF Power Test Mode Connection Diagram of Test System Support Unit used in test configuration and system EUT Operation Test Setup | 7 8 9 10 |
| 3 | TEST | RESULT | 11 |
| 4 | 3.1 3.2 3.3 3.4 LIST | Unwanted Radiated Emission Measurement AC Conducted Emission Measurement Automatically Discontinue Transmission Antenna Requirements OF MEASURING EQUIPMENTS | 24 30 31 |
| 5 | UNCE | RTAINTY OF EVALUATION | 33 |

APPENDIX A. SETUP PHOTOGRAPHS



REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FR472246B | Rev. 01 | Initial issue of report | Sep. 05, 2014 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SUMMARY OF TEST RESULT

| Report Section | FCC Rule | IC Rule | Description | Limit | Result | Remark |
|-------------------|-----------------------|------------------|---|---|--------|---|
| 3.1 | 15.407(b) | RSS-210 A9.3 | Unwanted Emissions | ≤ -17, -27 dBm (depend on band)&15.209(a) | Pass | Under limit 1.05 dB at 5150.000 MHz |
| 3.2 | 15.207 | RSS-Gen 7.2.4 | AC Conducted Emission | 15.207(a) | Pass | Under limit 9.50 dB at 1.366 MHz |
| 3.3 | 15.407(c) | RSS-210 A9.4 | Automatically Discontinue Transmission | Discontinue Transmission | Pass | - |
| 3.4 | 15.203 & 15.407(a) | RSS-210 A9.2 | Antenna Requirement | N/A | Pass | - |



1 General Description

1.1 Applicant

Redpine Signals Inc.

2107 N.First Street Suite 680 San Jose, CA 95131-2019 U.S.A

1.2 Manufacturer

Redpine Signals Inc.

2107 N.First Street Suite 680 San Jose, CA 95131-2019 U.S.A

1.3 Product Feature of Equipment Under Test

| Р | Product Feature | | | | |
|---------------------------------|---------------------|--|--|--|--|
| Equipment | 802.11 abgn MODULE | | | | |
| Brand Name | Redpine Signals | | | | |
| Model Name | RS9110-N-11-03 | | | | |
| FCC ID | XF6-RS9110N1103 | | | | |
| Host (WLAN Access Point Card) | Brand Name : Option | | | | |
| HOST (WEAN ACCESS FOILT Card) | Model Name : CG2102 | | | | |
| Host (CloudGate) | Brand Name : Option | | | | |
| Host (CloudGale) | Model Name : CG0114 | | | | |
| FUT supports Padias application | WLAN 11b/g/n HT20 | | | | |
| EUT supports Radios application | WLAN 11a/n HT20 | | | | |
| EUT Stage | Identical Prototype | | | | |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification subjective to this standard

| Product Specification subjective to this standard | | | | | |
|---|--|--|--|--|--|
| Tx/Rx Frequency Range5180 MHz ~ 5240 MHz | | | | | |
| Maximum Output Power to Antenna | 802.11a : 12.35 dBm / 0.0172 W | | | | |
| | 802.11n HT20 : 13.19 dBm / 0.0208 W | | | | |
| Antenna Type | Dipole Antenna type with gain 3.00 dBi | | | | |
| Type of Modulation | OFDM (BPSK / QPSK / 16QAM / 64QAM) | | | | |

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

| Test Site | SPORTON INTERNATIONAL INC. | | | | | |
|--------------------|--|-------------------------|--|--|--|--|
| | No. 52, Hwa Ya 1 st Rd., H | Hwa Ya Technology Park, | | | | |
| Test Site Location | Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. | | | | | |
| Test Sile Location | TEL: +886-3-327-3456 | | | | | |
| | FAX: +886-3-328-4978 | | | | | |
| Toot Site No | Sporton Site No.TH02-HYCO05-HY03CH05-HY | | | | | |
| Test Site No. | | | | | | |

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04
- ANSI C63.4-2003

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- **2.** This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|--------------------------------------|---------|----------------|---------|----------------|
| 5150-5250 MHz Band 1 (U-NII-1) | 36 | 5180 | 44 | 5220 |
| | 38 | 5190 | 46 | 5230 |
| | 40 | 5200 | 48 | 5240 |

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

| 5GHz 802.11a mode | | | | | | | | |
|---|--------------------|-------|-------------|-----------|-------|-------|---------|-------|
| Data Rate (MHz) 6M bps 9M bps 12M bps 18M bps 24M bps 36M bps 48M bps 54I | | | | | | | 54M bps | |
| Average Power (dBm) | <mark>12.35</mark> | 12.31 | 12.29 | 12.32 | 12.28 | 12.27 | 12.33 | 12.30 |
| | | 50 | GHz 802.11n | HT20 mode | e | | | |
| Data Rate (MHz) MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 | | | | | | | 14007 | |
| Data Rate (MHz) | MCSO | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS/ |



2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

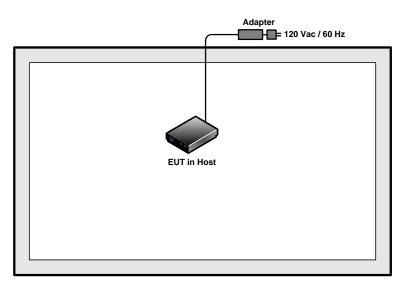
| Test Cases | | | | | | | | |
|--------------|--|--------------|-----------|--------------|--|--|--|--|
| | Test Items | Mode | Data rate | Test Channel | | | | |
| Radiated | Dedicted Band Edge | 802.11a | 6 Mbps | L/H | | | | |
| | Radiated Band Edge | 802.11n HT20 | MSC0 | L/H | | | | |
| TCs | Radiated Spurious | 802.11a | 6 Mbps | L/M/H | | | | |
| | Emission | 802.11n HT20 | MSC0 | L/M/H | | | | |
| AC Conducted | | | | | | | | |
| Emission | Mode 1 : WLAN (5GHz) Link + RJ-45 Link + Adapter | | | | | | | |

| Ch. # | | Band I : 5150-5250 MHz | | | | |
|-------|--------|------------------------|--------------|--|--|--|
| | | 802.11a | 802.11n HT20 | | | |
| L | Low | 36 | 36 | | | |
| М | Middle | 44 | 44 | | | |
| Н | High | 48 | 48 | | | |

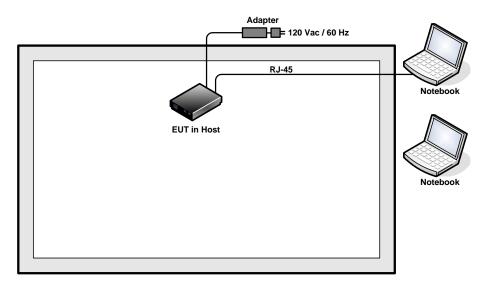


2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>





2.5 Support Unit used in test configuration and system

| ltem | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-----------|------------|----------------|--|------------|--|
| 1. | Notebook | DELL | Latitude E6320 | FCC DoC/ Contains FCC ID: QDS-BRCM1054 | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 2. | Notebook | DELL | P20G | FCC DoC/ Contains FCC ID: QDS-BRCM1051 | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "putty" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.



3 Test Result

3.1 Unwanted Radiated Emission Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.1.1 Limit of Unwanted Emissions

- For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

| Frequency | Field Strength | Measurement Distance |
|---------------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (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 |

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3}$$

µV/m, where P is the eirp (Watts)

| EIRP (dBm) | Field Strength at 3m (dBµV/m) |
|------------|-------------------------------|
| -17 | 78.3 |
| - 27 | 68.3 |

(3) KDB789033 Old Rules v01r04 H)2)c)(i) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.



3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

 The testing follows FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04. Section H) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- The setting follows the H) 5) of FCC KDB 789033.
- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

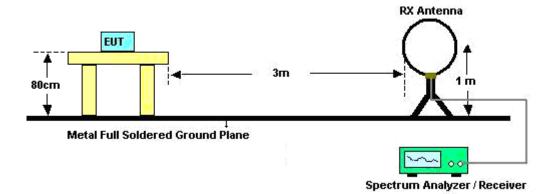
- The setting follows H) 6) of FCC KDB 789033.
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

| Band | Duty Cycle(%) | T(µs) | 1/T(kHz) | VBW Setting | |
|--------------|---------------|-------|----------|-------------|--|
| 802.11a | 100 | - | - | 10Hz | |
| 802.11n HT20 | 100 | - | - | 10Hz | |

- 2. The EUT was placed on a rotatable table top 0.8 meter above ground.
- 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

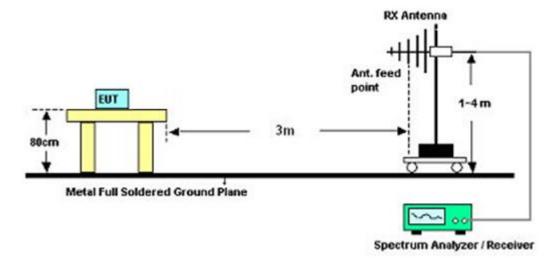
3.1.4 Test Setup

For radiated emissions below 30MHz

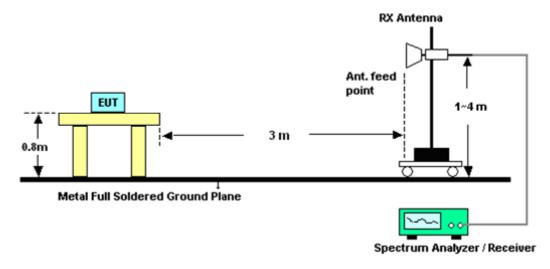




For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.1.6 Test Result

3.1.7 Test Result of Radiated Band Edges

| Test Mode : | 802.11a | Temperature : | 25~26°C |
|-----------------|---------------------------------------|---------------------|---------|
| Test Channel : | 36 | Relative Humidity : | 50~51% |
| Test Engineer : | Kyle Jhuang, Luke Chang, and Karl Hou | | |

| | ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | | | |
|-----------|-------------------------------|--------|------------|--------|---------|--------|--------|--------|-------|---------|--|--|--|
| Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | | |
| | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | | | | |
| (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | | | | |
| 5150 | 67.61 | -6.39 | 74 | 58 | 35.18 | 6.72 | 32.29 | 100 | 50 | Peak | | | |
| 5150 | 50.99 | -3.01 | 54 | 41.38 | 35.18 | 6.72 | 32.29 | 100 | 50 | Average | | | |

| | ANTENNA POLARITY : VERTICAL | | | | | | | | | | | | |
|-----------|-----------------------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|--|--|--|
| Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark | | | |
| (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | | | | |
| 5149.25 | 65.77 | -8.23 | 74 | 56.16 | 35.18 | 6.72 | 32.29 | 127 | 6 | Peak | | | |
| 5150 | 50.16 | -3.84 | 54 | 40.55 | 35.18 | 6.72 | 32.29 | 127 | 6 | Average | | | |

| Test Mode : | 802.11a | Temperature : | 25~26°C |
|-----------------|---------------------------------------|---------------------|---------|
| Test Channel : | 48 | Relative Humidity : | 50~51% |
| Test Engineer : | Kyle Jhuang, Luke Chang, and Karl Hou | | |

| | ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | | | | |
|-----------|-------------------------------|--------|----------|--------|---------|-------|--------|--------|-------|---------|--|--|--|--|
| Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | | | |
| | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | | | | | |
| (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | | | | | |
| 5150 | 60.11 | -13.89 | 74 | 50.5 | 35.18 | 6.72 | 32.29 | 100 | 56 | Peak | | | | |
| 5119.85 | 47.98 | -6.02 | 54 | 38.43 | 35.14 | 6.71 | 32.3 | 100 | 56 | Average | | | | |
| 5411.05 | 60.21 | -13.79 | 74 | 50.05 | 35.48 | 6.9 | 32.22 | 100 | 56 | Peak | | | | |
| 5359.79 | 47.46 | -6.54 | 54 | 37.42 | 35.42 | 6.85 | 32.23 | 100 | 56 | Average | | | | |

| | ANTENNA POLARITY : VERTICAL | | | | | | | | | | | | | |
|-----------|-----------------------------|--------|----------|--------|---------|--------|--------|--------|-------|---------|--|--|--|--|
| Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | | | |
| | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | | | | | |
| (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | | | | | |
| 5123.3 | 60.29 | -13.71 | 74 | 50.71 | 35.16 | 6.71 | 32.29 | 124 | 5 | Peak | | | | |
| 5120.15 | 47.08 | -6.92 | 54 | 37.53 | 35.14 | 6.71 | 32.3 | 124 | 5 | Average | | | | |
| 5458.79 | 60.49 | -13.51 | 74 | 50.21 | 35.54 | 6.94 | 32.2 | 124 | 5 | Peak | | | | |
| 5359.79 | 47.72 | -6.28 | 54 | 37.68 | 35.42 | 6.85 | 32.23 | 124 | 5 | Average | | | | |



| Test Mode : | 802.11n HT20 | Temperature : | 25~26°C |
|-----------------|---------------------------------------|---------------------|---------|
| Test Channel : | 36 | Relative Humidity : | 50~51% |
| Test Engineer : | Kyle Jhuang, Luke Chang, and Karl Hou | | |

| | ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | | | | |
|---|-------------------------------|------------|--------|------------|--------|---------|-------|--------|--------|-------|---------|--|--|--|
| F | requency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | | |
| | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | | | | |
| | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | | | | |
| | 5145.8 | 68.14 | -5.86 | 74 | 58.53 | 35.18 | 6.72 | 32.29 | 100 | 50 | Peak | | | |
| | 5150 | 52.95 | -1.05 | 54 | 43.34 | 35.18 | 6.72 | 32.29 | 100 | 50 | Average | | | |

| | ANTENNA POLARITY : VERTICAL | | | | | | | | | | | | |
|-----------|-----------------------------|-------|----------|--------|---------|--------|--------|--------|-------|---------|--|--|--|
| Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | | |
| | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | | | | |
| (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | | | | |
| 5149.25 | 66.48 | -7.52 | 74 | 56.87 | 35.18 | 6.72 | 32.29 | 124 | 359 | Peak | | | |
| 5150 | 51.58 | -2.42 | 54 | 41.97 | 35.18 | 6.72 | 32.29 | 124 | 359 | Average | | | |

| Test Mode : | 802.11n HT20 | Temperature : | 25~26°C |
|-----------------|---------------------------------------|---------------------|---------|
| Test Channel : | 48 | Relative Humidity : | 50~51% |
| Test Engineer : | Kyle Jhuang, Luke Chang, and Karl Hou | | |

| | | | ANTE | | ARITY : HO | RIZONTA | L | | | |
|-----------|----------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
| (MHz) | (dBµV/m) | | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | |
| 5090 | 59.93 | -14.07 | 74 | 50.43 | 35.12 | 6.68 | 32.3 | 100 | 50 | Peak |
| 5120 | 48.09 | -5.91 | 54 | 38.54 | 35.14 | 6.71 | 32.3 | 100 | 50 | Average |
| 5357.15 | 60.67 | -13.33 | 74 | 50.63 | 35.42 | 6.85 | 32.23 | 100 | 50 | Peak |
| 5360.01 | 47.48 | -6.52 | 54 | 37.44 | 35.42 | 6.85 | 32.23 | 100 | 50 | Average |

| | | | ANT | ENNA PO | LARITY : V | ERTICAL | | | | |
|-----------|------------|--------|------------|---------|------------|---------|--------|--------|-------|---------|
| Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
| | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | |
| 5025.05 | 60.39 | -13.61 | 74 | 51.02 | 35.04 | 6.65 | 32.32 | 125 | 5 | Peak |
| 5119.7 | 47.16 | -6.84 | 54 | 37.61 | 35.14 | 6.71 | 32.3 | 125 | 5 | Average |
| 5418.42 | 61.7 | -12.3 | 74 | 51.51 | 35.5 | 6.9 | 32.21 | 125 | 5 | Peak |
| 5359.79 | 47.76 | -6.24 | 54 | 37.72 | 35.42 | 6.85 | 32.23 | 125 | 5 | Average |

3.1.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

| Test Mode : | | 802. | 11a | | | | Temp | erature : | | 25~2 | 6°C | | | |
|--------------|-------|------|--------|---|----------|------------|----------|------------|----------|--------|----------|--|--|--|
| Test Channe | el : | 36 | | | | | Relati | ive Humi | dity : | 50~5 | 1% | | | |
| Test Enginee | er: | Kyle | Jhuan | g, Luke Cha | ang, and | Karl Hou | Polar | ization : | | Horiz | ontal | | | |
| | | 1. | 5178 I | MHz is fund | amental | signal whi | ch can b | e ignored | ł. | | | | | |
| | | 2. | 10358 | MHz is not | within a | restricted | band an | d satisfie | s both t | he ave | rage and | | | |
| Remark : | | | peak l | beak limits of 15.209. | | | | | | | | | | |
| | | 3. | Avera | Average measurement was not performed if peak level went lower than the | | | | | | | | | | |
| | | | avera | ge limit. | | | | | | | | | | |
| Frequency | Leve | el | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | | |
| | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | | | | |
| (MHz) (c | ββμV | /m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | | | | |
| 5178 | 96.3 | 9 | - | - | 86.72 | 35.22 | 6.73 | 32.28 | 100 | 50 | Average | | | |
| 5178 | 107.2 | 27 | - | 97.6 35.22 6.73 32.28 100 50 Peak | | | | | | | | | | |
| 10358 | 47.5 | 5 | -26.5 | 5 74 56.69 38.2 9.8 57.19 100 0 Peak | | | | | | | | | | |
| 15542 | 48.1 | 1 | -25.89 | 74 | 53.93 | 40.64 | 11.81 | 58.27 | 100 | 0 | Peak | | | |

| Test Mode : | 802.1 | 1a | | | | Temp | erature : | | 25~26° | °C |
|-----------------|--------|--------|--------------|------------|--------------|----------|------------|---------|----------------|----------|
| Test Channel : | 36 | | | | | Relati | ve Humi | dity : | 50~519 | % |
| Test Engineer : | Kyle 、 | Jhuan | g, Luke Cha | ang, and | Karl Hou | Polari | ization : | | Vertica | Ι |
| | 1. | 5178 I | MHz is fund | lamental | signal whic | ch can b | e ignorec | l. | | |
| | 2. | 10359 | MHz is no | t within a | restricted l | band an | d satisfie | s both | the ave | rage and |
| Remark : | | peak l | imits of 15. | 209. | | | | | | |
| | 3 | Avera | ge measure | ement wa | is not perfe | ormed if | peak lev | vel wen | t lower | than the |
| | | averaç | ge limit. | | | | | | | |
| - | | • | 1.1 | | | Oskla | | | T . 1 1 | |

| Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|-----------|----------|--------|----------|--------|---------|--------|--------|--------|-------|---------|
| | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | |
| 5178 | 94.25 | - | - | 84.58 | 35.22 | 6.73 | 32.28 | 127 | 6 | Average |
| 5178 | 105.1 | - | - | 95.43 | 35.22 | 6.73 | 32.28 | 127 | 6 | Peak |
| 10359 | 48.1 | -25.9 | 74 | 57.28 | 38.2 | 9.8 | 57.18 | 100 | 0 | Peak |
| 15540 | 45.97 | -28.03 | 74 | 51.79 | 40.64 | 11.81 | 58.27 | 100 | 0 | Peak |



| Test Mode : | 8 | 802.1 | 1a | | | | Temper | ature : | | 25~26°C | | | |
|---------------|------|--------|------------------------------------|--|----------|-------------|----------|------------|--------|-----------|---------|--|--|
| Test Channel | : 4 | 44 | | | | | Relative | e Humidi | ty: | 50~51% | | | |
| Test Engineer | ': ł | Kyle J | Jhuan | g, Luke Cha | ang, and | Karl Hou | Polariza | ation : | | Horizont | al | | |
| | - | 1. : | 5218 I | VHz is fund | amental | signal whic | ch can b | e ignorec | l. | | | | |
| | | 2. | 10440 | MHz is not | within a | restricted | band an | d satisfie | s both | the ave | age and | | |
| Remark : | | I | peak l | eak limits of 15.209. | | | | | | | | | |
| | 3 | 3. / | Avera | werage measurement was not performed if peak level went lower than the | | | | | | | | | |
| | | i | averaç | ge limit. | | | | | | | | | |
| Frequency L | .eve | I (| Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | |
| | ,, | | Limit | Line | Level | Factor | Loss | Factor | Pos | | | | |
| (MHz) (dB | βµV/ | m) (| dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm |) (deg) | | | |
| 5218 9 | 4.69 |) | - | - | 84.94 | 35.26 | 6.76 | 32.27 | 100 | 48 | Average | | |
| 5218 1 | 05.7 | 7 | 95.95 35.26 6.76 32.27 100 48 Peak | | | | | | | | | | |
| 10440 4 | 5.52 | 2 -2 | 28.48 | .48 74 54.64 38.2 9.82 57.14 100 0 Peak | | | | | | | | | |
| 15658 4 | 6.16 | 6 -2 | 27.84 | 74 | 51.75 | 40.79 | 11.8 | 58.18 | 100 | 0 | Peak | | |

| Test Mode | : | 802. | 11a | | | | | Tem | nperatur | re : | 25~ | 26°C | |
|--------------------|----------------|----------------|--|---|-------------------------|-----------------------------|--------------------|------|--------------------------|----------------------|-------------------------|---------|--|
| Test Chani | nel : | 44 | | | | | | Rela | ative Hu | imidity | : 50~ | 51% | |
| Test Engin | eer: | Kyle | Jhuan | g, Luke Cha | ang, and | Karl Hou | | Pola | arization | n : | Vert | tical | |
| Remark : | | 1. 2. 3. | 5218 MHz is fundamental signal which can be ignored.10438 MHz is not within a restricted band and satisfies both the average at peak limits of 15.209.Average measurement was not performed if peak level went lower than the average limit. | | | | | | | | | | |
| Frequency (MHz) | Leve (dBµV | | Over Limit (dB) | Limit Line (dBµV/m) | Read Level (dBµV) | Antenna Factor (dB) | Cab Los (dB | S | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark | |
| 5218 | 93.1 | | - | - | 83.42 | 35.26 | 6.76 | 6 | 32.27 | 153 | 355 | Average | |
| 5218 | 104.′ | 15 | 94.4 35.26 6.76 32.27 153 355 Peak | | | | | | | | | Peak | |
| 10438 | 46.5 | 7 | -27.43 | 27.43 74 55.69 38.2 9.82 57.14 100 0 Peak | | | | | | | | | |
| 15660 | 46.3 | 1 | -27.69 | 74 | 51.9 | 40.79 | 11.8 | В | 58.18 | 100 | 0 | Peak | |



| Test Mode | : | 802. | 11a | | | | Temp | erature : | | 25~2 | 6°C | | |
|------------|--------|------|------------------------|--|-----------------|----------------|--------------|----------------|-------------|--------------|---------|--|--|
| Test Chan | nel : | 48 | | | | | Relati | ve Humi | dity : | 50~5 | 1% | | |
| Test Engir | neer : | Kyle | Jhuan | g, Luke Cha | ang, and | Karl Hou | Polar | ization : | | Horizontal | | | |
| | | 1. | 5238 | MHz is fund | lamental | signal whi | ch can b | e ignored | J. | | | | |
| | | 2. | 10479 | 179 MHz is not within a restricted band and satisfies both the average and | | | | | | | | | |
| Remark : | | | peak l | eak limits of 15.209. | | | | | | | | | |
| | | 3. | Avera | verage measurement was not performed if peak level went lower that | | | | | | | | | |
| | | | avera | ge limit. | | | | | | | | | |
| Frequency | Leve | el | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | |
| (MHz) | (dBµV | //m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | | | |
| 5238 | 94.5 | 9 | - | - | 84.8 | 35.28 | 6.77 | 32.26 | 100 | 56 | Average | | |
| 5238 | 105. | 58 | 95.79 35.28 6.77 32.26 | | | | | | | 56 | Peak | | |
| 10479 | 45.4 | 6 | -28.54 | 74 | 54.53 | 38.2 | 9.84 | 57.11 | 100 | 0 | Peak | | |
| 15720 | 45.6 | 3 | -28.37 | 74 | 51.08 | 40.87 | 11.8 | 58.12 | 100 | 0 | Peak | | |

| Test Mode | : | 802. | 11a | | | | Temper | rature : | | 25~2 | 6°C | |
|--------------------|----------------|----------------|--------------------------------|---|-------------------------|---------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|--|
| Test Chani | nel : | 48 | | | | | Relativ | e Humid | ity : | 50~5 | 1% | |
| Test Engin | eer : | Kyle | Jhuan | g, Luke Cha | ang, and | Karl Hou | Polariza | ation : | | Vertic | al | |
| Remark : | | 1. 2. 3. | 10479 peak l Averag | MHz is fund MHz is not imits of 15.2 ge measure ge limit. | : within a 209. | restricted | band an | d satisfie | s both t | | J | |
| Frequency (MHz) | Leve (dBµV | | Over Limit (dB) | Limit Line (dBµV/m) | Read Level (dBµV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark | |
| 5240 | 93.8 | | - | - | 84.03 | 35.28 | 6.77 | 32.26 | 124 | 5 | Average | |
| 5240 | 104.8 | 33 | 95.04 35.28 6.77 32.26 124 5 P | | | | | | | | | |
| 10479 | 48.5 | 1 | -25.49 | 25.49 74 57.58 38.2 9.84 57.11 100 0 Peak | | | | | | | | |
| 15720 | 45.4 | 2 | -28.58 | 74 | 50.87 | 40.87 | 11.8 | 58.12 | 100 | 0 | Peak | |



| Test Mode : | : | 802 | .11n HT | n HT20 Temperature : 25~26 | | | | | | | | | |
|-------------|-------|------|---|----------------------------|-----------------|----------------|--------------|----------------|-------------|--------------|----------|--|--|
| Test Chann | el : | 36 | | | | | Relativ | e Humid | ity : | 50~ | 51% | | |
| Test Engine | er: | Kyle | Jhuan | g, Luke Cha | ang, and | Karl Hou | Polariz | ation : | | Hor | izontal | | |
| | | 1. | 5178 I | MHz is fund | lamental | signal whi | ch can b | e ignored | ١. | | | | |
| | | 2. | 10359 | MHz is not | t within a | restricted | band an | d satisfie | s both t | he avei | rage and | | |
| Remark : | | | peak limits of 15.209. | | | | | | | | | | |
| | | 3. | Average measurement was not performed if peak level went lower that | | | | | | | | | | |
| | | | average limit. | | | | | | | | | | |
| Frequency | Leve | el | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | |
| (MHz) (| dBµV | /m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | | | |
| 63.48 | 18.2 | | -21.71 | 40 | 43.21 | 5.98 | 0.89 | 31.79 | - | - | Peak | | |
| 142.59 | 23.7 | 9 | -19.71 | 43.5 | 42.81 | 11.5 | 1.26 | 31.78 | - | - | Peak | | |
| 250.05 | 33.0 | 7 | -12.93 | 46 | 50.8 | 12.4 | 1.64 | 31.77 | 100 | 155 | Peak | | |
| 359.5 | 31.4 | 1 | -14.59 | 46 | 46.67 | 14.6 | 1.92 | 31.78 | - | - | Peak | | |
| 479.9 | 26.0 | 4 | -19.96 | 46 | 38.02 | 17.7 | 2.19 | 31.87 | - | - | Peak | | |
| 840.4 | 23.6 | 5 | -22.35 | 46 | 29.27 | 23.2 | 2.9 | 31.72 | - | - | Peak | | |
| 5178 | 96.7 | 2 | - | - | 87.05 | 35.22 | 6.73 | 32.28 | 100 | 50 | Average | | |
| 5178 | 107.5 | 57 | 7 97.9 35. | | | | 6.73 | 32.28 | 100 | 50 | Peak | | |
| 10359 | 47.6 | 6 | -26.4 | 74 | 56.78 | 38.2 | 9.8 | 57.18 | 100 | 0 | Peak | | |
| 15540 | 47 | | -27 | 74 | 52.82 | 40.64 | 11.81 | 58.27 | 100 | 0 | Peak | | |



| Test Mode : | | 802 | .11n HT | In HT20 Temperature : | | | | | | | | | |
|-------------|-------|------|----------------|-----------------------|-----------------|-----------------------|--------------|--|-------------|----------------|---------|--|--|
| Test Chann | el : | 36 | | | | | Relati | ive Humi | dity : | 50~ | 51% | | |
| Test Engine | er: | Kyle | Jhuan | g, Luke Cha | ang, and | Karl Hou | Polari | ization : | | Vert | ical | | |
| | | 1. | 5178 | MHz is fund | amental | signal whic | ch can b | e ignored | ł. | | | | |
| | | 2. | 10359 | MHz is not | within a | restricted | band an | pand and satisfies both the average an | | | | | |
| Remark : | | | peak l | imits of 15.2 | 209. | | | | | | | | |
| | | 3. | Avera | ge measure | ement wa | ⁱ peak lev | vel wen | t lower | than the | | | | |
| | | | average limit. | | | | | | | | | | |
| Frequency | Leve | əl | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark | | |
| (MHz) (| dBµV | /m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | | | |
| 60.24 | 30.9 | | -9.02 | 40 | 56.01 | 5.9 | 0.87 | 31.8 | 100 | 58 | Peak | | |
| 141.24 | 19.4 | 1 | -24.09 | 43.5 | 38.43 | 11.5 | 1.26 | 31.78 | - | - | Peak | | |
| 250.05 | 27.0 | 6 | -18.94 | 46 | 44.79 | 12.4 | 1.64 | 31.77 | - | - | Peak | | |
| 359.5 | 29.3 | 7 | -16.63 | 46 | 44.63 | 14.6 | 1.92 | 31.78 | - | - | Peak | | |
| 479.9 | 26.8 | 8 | -19.12 | 46 | 38.86 | 17.7 | 2.19 | 31.87 | - | - | Peak | | |
| 902 | 35.3 | 9 | -10.61 | 46 | 40.37 | 23.42 | 3.01 | 31.41 | - | - | Peak | | |
| 5178 | 94.6 | 2 | - | - | 84.95 | 35.22 | 6.73 | 32.28 | 124 | 359 | Average | | |
| 5178 | 105.3 | 39 | - | - | 95.72 | 35.22 | 6.73 | 32.28 | 124 | 359 | Peak | | |
| 10359 | 48.9 | 2 | -25.08 | 74 | 58.1 | 38.2 | 9.8 | 57.18 | 100 | 0 | Peak | | |
| 15542 | 47.8 | 8 | -26.12 | 74 | 53.7 | 40.64 | 11.81 | 58.27 | 100 | 0 | Peak | | |



| Test Mode | : | 802. | 11n HT | 20 | | | Temper | ature : | | 25~26°C | |
|------------|--------|------|---|-------------|----------|-------------|----------|----------|--------|-------------|----------|
| Test Chan | nel : | 44 | | | | | Relativ | e Humidi | ty : | 50~51% | |
| Test Engir | neer : | Kyle | Jhuan | g, Luke Cha | ang, and | Karl Hou | Polariza | ation : | | Horizont | al |
| | | 1. | . 5218 MHz is fundamental signal which can be ignored. | | | | | | | | |
| | | 2. | 2. 10440 MHz is not within a restricted band and satisfies both the average and | | | | | | | age and | |
| Remark : | | | peak limits of 15.209. | | | | | | | | |
| | | 3. | Avera | ge measure | ement wa | is not perf | ormed if | peak lev | vel we | nt lower | than the |
| | | | avera | ge limit. | | | | | | | |
| Frequency | Leve | əl | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
| <i></i> | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| (MHz) | (dBµV | /m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) |) (deg) | |
| 5218 | 95.7 | 2 | - | - | 85.97 | 35.26 | 6.76 | 32.27 | 100 | 49 | Average |
| 5218 | 106. | 55 | - | - | 96.8 | 35.26 | 6.76 | 32.27 | 100 | 49 | Peak |
| 10440 | 45.2 | 7 | -28.73 | 74 | 54.39 | 38.2 | 9.82 | 57.14 | 100 | 0 | Peak |
| 15660 | 46 | | -28 | 74 | 51.59 | 40.79 | 11.8 | 58.18 | 100 | 0 | Peak |

| Test Mode | : | 802. | 11n HT | 20 | | | Temper | rature : | | 25~ | 26°C |
|--------------------|----------------|---|---|-----------------------------|-------------------------|---------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Test Chani | nel : | 44 | | | | | Relativ | e Humidi | ity : | 50~ | 51% |
| Test Engin | eer : | Kyle Jhuang, Luke Chang, and Karl Hou Polariz | | | | | | ation : | | Ver | tical |
| Remark : | | 1. 2. 3. | 10440 MHz is not within a restricted band and satisfies both the average a peak limits of 15.209. | | | | | | | C C | |
| Frequency (MHz) | Leve (dBµV | - | Over Limit (dB) | Limit Line (dBµV/m) | Read Level (dBµV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5218 | 94.0 | | - | - | 84.31 | 35.26 | 6.76 | 32.27 | 151 | 357 | Average |
| 5218 | 104.6 | 65 | - | - | 94.9 | 35.26 | 6.76 | 32.27 | 151 | 357 | Peak |
| 10440 | 46.8 | 3 | -27.2 | 74 | 55.92 | 38.2 | 9.82 | 57.14 | 100 | 0 | Peak |
| 15660 | 47.3 | 3 | -26.67 | 74 | 52.92 | 40.79 | 11.8 | 58.18 | 100 | 0 | Peak |



| Test Mode : | | 802. | 11n HT | 20 | | | | Temp | eratu | re : | 25~ | 26°C |
|-------------|-------|------|---|-------------|----------|-------------|------|---------|---------|----------|----------|----------|
| Test Channe | el : | 48 | | | | | | Relat | ive Hu | imidity | : 50~ | 51% |
| Test Engine | er : | Kyle | Jhuan | g, Luke Cha | ang, and | Karl Hou | | Polar | izatio | n : | Hor | izontal |
| | | 1. | . 5238 MHz is fundamental signal which can be ignored. | | | | | | | | | |
| | | 2. | 2. 10479 MHz is not within a restricted band and satisfies both the average and | | | | | | | | rage and | |
| Remark : | | | peak limits of 15.209. | | | | | | | | | |
| | | 3. | Avera | ge measure | ement wa | is not perf | orme | d if pe | eak lev | vel went | lower | than the |
| | | | avera | ge limit. | | | | | | | | |
| Frequency | Leve | el | Over | Limit | Read | Antenna | Cab | le Pi | reamp | Ant | Table | Remark |
| | | | Limit | Line | Level | Factor | Los | - | actor | Pos | Pos | |
| (MHz) (c | dBµV | /m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB |) (| dB) | (cm) | (deg) | |
| 5238 | 95.1 | 8 | - | - | 85.39 | 35.28 | 6.77 | 7 3 | 32.26 | 100 | 50 | Average |
| 5238 | 105.6 | 69 | - | - | 95.9 | 35.28 | 6.77 | 7 3 | 32.26 | 100 | 50 | Peak |
| 10479 | 46.4 | 7 | -27.53 | 74 | 55.54 | 38.2 | 9.84 | 4 (| 57.11 | 100 | 0 | Peak |
| 15720 | 45.7 | 6 | -28.24 | 74 | 51.21 | 40.87 | 11.8 | 3 5 | 58.12 | 100 | 0 | Peak |

| Test Mode | : | 802. | 11n HT | 20 | | | Temp | erature : | | 25~ | 26°C |
|----------------------|----------------|----------------|---|-----------------------------|-------------------------|-----------------------------|-------------------------|--------------------------|----------------------|-------------------------|---------|
| Test Chan | nel : | 48 | | | | | Relati | ive Humi | dity : | 50~ | 51% |
| Test Engin | eer: | Kyle | Kyle Jhuang, Luke Chang, and Karl Hou Polarization : | | | | | | | Ver | tical |
| Remark : | | 1. 2. 3. | 10479 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. | | | | | | | | |
| | | | avera | ge limit. | | | | | | | |
| Frequency (MHz) | Leve (dBµV | | Over Limit (dB) | Limit Line (dBµV/m) | Read Level (dBµV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5238 | 94.3 | 7 | - | - | 84.58 | 35.28 | 6.77 | 32.26 | 125 | 5 | Average |
| 5238 | 105.1 | 13 | - | - | 95.34 | 35.28 | 6.77 | 32.26 | 125 | 5 | Peak |
| 10479 | 46.9 | 6 | -27.04 | 74 | 56.03 | 38.2 | 9.84 | 57.11 | 100 | 0 | Peak |
| 15720 | 48.6 | 7 | -25.33 | 74 | 54.12 | 40.87 | 11.8 | 58.12 | 100 | 0 | Peak |



3.2 AC Conducted Emission Measurement

3.2.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dBµV) | | | | |
|-----------------------------|------------------------|-----------|--|--|--|
| Frequency of emission (MHZ) | Quasi-peak | Average | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | |
| 0.5-5 | 56 | 46 | | | |
| 5-30 | 60 | 50 | | | |

*Decreases with the logarithm of the frequency.

3.2.2 Measuring Instruments

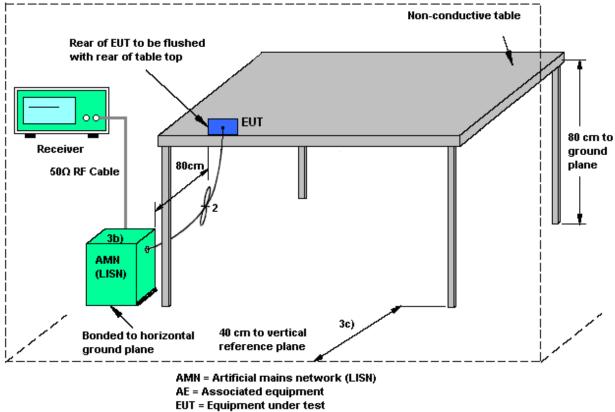
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



3.2.4 Test Setup



ISN = Impedance stabilization network



3.2.5 Test Result of AC Conducted Emission

| est Mode : | Mode 1 | | | Tem | peratur | e: | 20~22 ℃ |
|--|---|--|--|---|--|---|---|
| est Engineer : | Kai-Chun Ch | าน | | Rela | ative Hu | midity : | 46~48% |
| est Voltage : | 120Vac / 60 | Ηz | | Pha | se : | | Line |
| unction Type : | WLAN (5GH | z) Link + | RJ-4 | 5 Link | + Adapt | er | |
| | 90 80 70 60 50 40 20 10 | | | | | CISPR 22 | A ve Limit at Main A ve Limit at |
| Einal Pos | | | 800 1M | 2N Freque | / 3M 4M encyin Hz | 5M 6 8 | 10M 20M 30M |
| Frequenc | ISOk 300 Ilt:QuasiPea y QuasiPeak | ak | Line | Freque | ncy in Hz Margin | Limit | 10M 20M 30M |
| | IIt : QuasiPeak y QuasiPeak (dBµV) | ak | | Freque | ncy in Hz | | 10M 20M 30M |
| Frequenc (MHz) | ISUK 300 III : QuasiPeak (dBµV) 45.0 | ak Filter | Line | Freque Corr. (dB) | Margin (dB) | Limit (dBµV) | 10M 20M 30M |
| Frequence (MHz) 0.206000 | 150k 300 ult : QuasiPeak (dBµV) 45.0 44.4 | ak Filter | Line L1 | Freque Corr. (dB) 19.3 | Margin (dB) 18.4 | Limit (dBµV) 63.4 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 | ISDk 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 | Ak Filter Off Off | Line L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 | Margin (dB) 18.4 16.5 17.3 13.0 | Limit (dBµV) 63.4 60.9 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 | ISDk 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 | Ak Filter Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 | ISD 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 | Ak Filter Off Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 | ISD x 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 | Filter Off | Line L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 | ISD k 300 III : QuasiPeak (dBµV) (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 | Filter Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.6 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 1.366000 1.822000 2.166000 | ISD 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 35.1 | Filter Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.6 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 2.166000 2.638000 | ISD 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 35.1 38.6 | Filter Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 17.4 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 2.166000 3.046000 | ISD 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 38.4 38.6 38.9 | Filter Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 17.4 17.1 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 1.366000 1.822000 2.166000 3.046000 3.598000 | ISD 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 38.4 38.6 38.9 44.0 | Filter Image: Constraint of the second sec | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 17.4 17.1 12.0 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 1.366000 1.822000 2.166000 3.046000 3.598000 3.990000 | ISD k 300 III : QuasiPeak (dBµV) (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 35.1 38.6 38.9 44.0 44.0 45.7 | Filter Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 17.4 17.1 12.0 10.3 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 1.366000 2.166000 2.638000 3.046000 3.598000 4.398000 | ISDk 300 JIL : QuasiPeak (dBµV) (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 35.1 38.6 38.9 44.0 45.7 45.3 | Filter Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 17.4 17.1 12.0 10.3 10.7 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 1.366000 1.366000 2.166000 2.638000 3.046000 3.598000 4.398000 4.398000 | ISD 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 35.1 38.4 38.4 35.1 38.6 38.9 44.0 45.7 45.3 44.9 | Filter Image: Second state sta | Line L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 17.4 17.1 12.0 10.3 10.7 11.1 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 2.166000 2.166000 3.046000 3.598000 4.398000 4.398000 5.334000 | ISD 300 III : QuasiPeak (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 37.9 43.5 38.4 38.4 38.4 38.6 38.9 44.0 44.0 45.7 45.3 44.9 45.3 | Filter Image: Second state sta | Line L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 17.4 17.1 12.0 10.3 10.7 11.1 14.9 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |
| Frequence (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 2.166000 2.638000 3.046000 3.598000 4.398000 4.958000 | ISD k 300 JIL : QuasiPeak (dBµV) (dBµV) 45.0 44.4 41.5 43.0 35.5 37.9 43.5 38.4 35.1 38.6 38.6 38.9 444.0 45.7 45.3 45.1 43.2 43.2 | Filter Image: Second state sta | Line L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 18.4 16.5 17.3 13.0 20.5 18.1 12.5 17.6 20.9 17.4 17.1 12.0 10.3 10.7 11.1 | Limit (dBµV) 63.4 60.9 58.8 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 10M 20M 30M |



| Mode : | Mode 1 | | | Ten | peratur | e : | 20~22 ℃ |
|---|---|---|--|---|---|---|---------------------------------|
| Engineer : | Kai-Chun Ch | าน | | Rela | ative Hu | midity : | 46~48% |
| Voltage : | 120Vac / 60I | Hz | | Pha | se : | | Line |
| ction Type : | WLAN (5GH | lz) Link · | + RJ-4 | 45 Link | + Adapt | er | |
| | 100 T | | | | | | |
| | 90 | | | | | | |
| | | | | | | | |
| | 80 | | | | | | |
| | 70- | | | | | | |
| | 60 | | | | | CISPR 22 | - <u>QP Limit at Main</u> Ports |
| A. | | | | | | | |
| Level in dBJM | 50 MM | - h | | | AL MORE | CISPR22- | <u>Ave Limit at Main</u> Ports |
| Level | 40 | •N∕ •P/ | win the | M | | | |
| | | | | •••• | | | |
| | 30 | | | ٠ | • • • | | Contraction of the second |
| | 20 | | | | - | | |
| | | | | | | | |
| | 10 | | | | | | |
| | 0 | | | | | | |
| | | | | | | | |
| | 150 k 300 | 400 500 | 800 1M | 21 Freque | | ISM 6 8 1 | 10M 20M 30M |
| | 150k 300 | 400 500 | 800 1M | | ancyin Hz | ISM 6 8 1 | 10M 20M 30M |
| Einal Resu | | 400 500 | 800 1M | | | ISM 6 8 1 | DM 20M 30M |
| | It : Average | 400 500 | 800 1M | Freque | en cy in Hz | | DM 20M 30M |
| Frequency | It : Average | Filter | Line | Freque | ency in Hz Margin | Limit | DM 20M 30M |
| Frequency (MHz) | It: Average Average (dBµV) | Filter | Line | Freque Corr. (dB) | Margin (dB) | Limit (dBµV) | DM 20M 30M |
| Frequency (MHz) 0.206000 | It : Average Average (dBµV) 30.1 | Filter Off | Line L1 | Freque Corr. (dB) 19.3 | Margin (dB) 23.3 | Limit (dBµV) 53.4 | OM 20M 30M |
| Frequency (MHz) | It: Average Average (dBµV) | Filter | Line | Freque Corr. (dB) | Margin (dB) | Limit (dBµV) | DM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 | It : Average (dBµV) 30.1 29.7 | Filter Off Off | Line L1 L1 | Freque Corr. (dB) 19.3 19.4 | Margin (dB) 23.3 21.2 | Limit (dBµV) 53.4 50.9 | DM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 | It : Average / Average (dBμV) 30.1 29.7 32.1 | Filter Off Off Off | Line L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 | Margin (dB) 23.3 21.2 16.7 | Limit (dBµV) 53.4 50.9 48.8 | OM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 | It : Average / Average (dBμV) 30.1 29.7 32.1 33.4 | Filter Off Off Off Off | Line L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 | Margin (dB) 23.3 21.2 16.7 12.6 | Limit (dBµV) 53.4 50.9 48.8 46.0 | OM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 | It : Average / Average (dBμV) 30.1 29.7 32.1 33.4 28.3 | Filter Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 | OM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 | It : Average Average (dBμV) 30.1 29.7 32.1 33.4 28.3 24.8 | Filter Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 | DM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 | It : Average (dBμV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 | Filter Off Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 | DM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 | It : Average (dBμV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 | Filter Off Off Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.6 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 | DM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 2.166000 | It : Average (dBμV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 25.9 | Filter Off Off Off Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.6 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 20.1 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 | OM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 2.166000 2.638000 | It : Average (dBμV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 25.9 30.8 | Filter Off Off Off Off Off Off Off Off Off Of | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 20.1 15.2 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | OM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 2.166000 2.638000 3.046000 | It : Average (dBµV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 25.9 30.8 27.4 | Filter Off Off Off Off Off Off Off Off Off Of | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 20.1 15.2 18.6 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | OM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 2.166000 2.638000 3.046000 3.598000 | It : Average (dBμV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 25.9 30.8 27.4 29.5 | Filter Off Off Off Off Off Off Off Off Off Of | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 20.1 15.2 18.6 16.5 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | DM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 1.822000 2.166000 2.638000 3.046000 3.990000 | It : Average (dBμV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 25.9 30.8 27.4 29.5 32.0 | Filter Off Off Off Off Off Off Off Off Off Of | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.6 19.5 19.6 19.5 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 20.1 15.2 18.6 16.5 14.0 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | DM 20M 30M |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.534000 0.686000 0.958000 1.366000 2.166000 2.638000 3.046000 3.598000 4.398000 | It : Average (dBµV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 25.9 30.8 27.4 29.5 32.0 33.1 34.5 34.0 | Filter Off Off Off Off Off Off Off Off Off Of | Line L1 | Freque Corr. (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 20.1 15.2 18.6 16.5 14.0 12.9 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.358000 0.534000 0.686000 0.958000 1.366000 2.166000 2.638000 3.046000 3.990000 4.398000 5.334000 5.750000 | It : Average (dBµV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 25.9 30.8 27.4 29.5 32.0 33.1 34.5 34.0 35.0 | Filter Off Off Off Off Off Off Off Off Off Of | Line L1 | Freque (dB) 19.3 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 20.1 15.2 18.6 16.5 14.0 12.9 11.5 16.0 15.0 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | |
| Frequency (MHz) 0.206000 0.278000 0.358000 0.358000 0.534000 0.686000 0.958000 1.366000 2.166000 2.638000 3.046000 3.598000 4.398000 5.334000 | It : Average (dBµV) 30.1 29.7 32.1 33.4 28.3 24.8 36.5 27.8 25.9 30.8 27.4 29.5 32.0 33.1 34.5 34.0 | Filter Off Off Off Off Off Off Off Off Off Of | Line L1 | Freque (dB) 19.3 19.4 19.4 19.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 23.3 21.2 16.7 12.6 17.7 21.2 9.5 18.2 20.1 15.2 18.6 16.5 14.0 12.9 11.5 16.0 | Limit (dBµV) 53.4 50.9 48.8 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | |



| Test Engineer : Kai-Chun Chu Relative Humidity : 46~48% Test Voltage : 120Vac / 60Hz Phase : Neutral Function Type : WLAN (5GHz) Link + RJ-45 Link + Adapter Neutral Image: Part of the second |
|---|
| Function Type : WLAN (5GHz) Link + RJ-45 Link + Adapter |
| |
| 90 80 70 |
| 50 50 40 30 20 10 0 |
| 150k 300 400 500 800 1M 2M 3M 4M 5M 6 8 10M 20M 30M Frequency in Hz |
| Frequency in Hz Final Result : QuasiPeak |
| Frequency in Hz Final Result : QuasiPeak Frequency QuasiPeak Filter Line Corr. Margin Limit |
| Frequency in Hz Final Result : QuasiPeak Frequency QuasiPeak Filter Line Corr. Margin Limit |
| Frequency in Hz Final Result : QuasiPeak Frequency QuasiPeak Filter Corr. Margin Limit (MHz) (dBμV) Filter Line (dB) (dB) (dBμV) |
| Frequency in HzFinal Result : QuasiPeakFrequency (MHz)QuasiPeak (dBμV)Corr. (dB)Margin (dB)Limit (dBμV)0.53400041.1OffN19.414.956.0 |
| Frequency in HzFinal Result : QuasiPeakFrequencyQuasiPeakFilterLineCorr.MarginLimit(MHz)(dBµV)FilterLine(dB)(dB)(dBµV)0.53400041.1OffN19.414.956.00.67800037.8OffN19.518.256.0 |
| Frequency in Hz Final Result : QuasiPeak Frequency QuasiPeak Filter Line Corr. Margin Limit (MHz) QuasiPeak Filter Line Corr. (dB) (dB) (dBµV) 0.534000 41.1 Off N 19.4 14.9 56.0 0.678000 37.8 Off N 19.5 18.2 56.0 0.958000 37.6 Off N 19.5 18.4 56.0 |
| Frequency in Hz Final Result : QuasiPeak Frequency QuasiPeak Filter Line Corr. Margin Limit (MHz) (dBµV) Filter Line (dB) (dB) (dBµV) 0.534000 41.1 Off N 19.4 14.9 56.0 0.678000 37.8 Off N 19.5 18.2 56.0 0.958000 37.6 Off N 19.5 18.4 56.0 1.366000 44.1 Off N 19.5 11.9 56.0 |
| Frequency in Hz Final Result : QuasiPeak Frequency QuasiPeak Filter Line Corr. Margin Limit (MHz) (dBµV) Filter Line 0.000 (dB) (dBµV) 0.534000 41.1 Off N 19.4 14.9 56.0 0.678000 37.8 Off N 19.5 18.2 56.0 0.958000 37.6 Off N 19.5 18.4 56.0 1.366000 44.1 Off N 19.5 11.9 56.0 2.294000 39.1 Off N 19.5 16.9 56.0 |
| Frequency in Hz Final Result : QuasiPeak Filter Line Corr. Margin Limit (MHz) QuasiPeak Filter Line (dB) (dB) (dBµV) 0.534000 41.1 Off N 19.4 14.9 56.0 0.678000 37.8 Off N 19.5 18.2 56.0 0.958000 37.6 Off N 19.5 18.4 56.0 1.366000 44.1 Off N 19.5 16.9 56.0 2.294000 39.1 Off N 19.5 16.9 56.0 2.702000 41.4 Off N 19.6 14.6 56.0 |
| Frequency in Hz Final Result : QuasiPeak Filter Line Corr. Margin Limit (MHz) QuasiPeak Filter Line Corr. Margin Limit 0.534000 41.1 Off N 19.4 14.9 56.0 0.678000 37.8 Off N 19.5 18.2 56.0 0.958000 37.6 Off N 19.5 18.4 56.0 1.366000 44.1 Off N 19.5 11.9 56.0 2.294000 39.1 Off N 19.5 14.6 56.0 3.110000 43.4 Off N 19.6 12.6 56.0 |
| Frequency in Hz Final Result : QuasiPeak Filter Corr. Margin Limit Milter Corr. Margin Limit (MHz) QuasiPeak Filter Line Corr. Margin Limit 0.534000 41.1 Off N 19.4 14.9 56.0 0.678000 37.8 Off N 19.5 18.2 56.0 0.958000 37.6 Off N 19.5 18.4 56.0 0.958000 37.6 Off N 19.5 11.9 56.0 0.2294000 39.1 Off N 19.5 16.9 56.0 0.2294000 39.1 Off N 19.6 14.6 56.0 0.11000 43.4 Off N 19.6 12.6 56.0 0.3110000 42.1 Off N 19.6 13.9 56.0 |
| Frequency in Hz Final Result : QuasiPeak Filter Corr. Margin Limit Milter Corr. Margin Limit (MHz) QuasiPeak Filter Line Corr. Margin Limit 0.534000 41.1 Off N 19.4 14.9 56.0 0.678000 37.6 Off N 19.5 18.2 56.0 0.958000 37.6 Off N 19.5 11.9 56.0 1.366000 44.1 Off N 19.5 11.9 56.0 2.294000 39.1 Off N 19.5 16.9 56.0 3.110000 43.4 Off N 19.6 12.6 56.0 3.510000 42.1 Off N 19.6 13.9 56.0 3.998000 43.8 Off N 19.6 12.2 56.0 |
| Frequency in Hz Final Result : QuasiPeak Filter Corr. Margin Limit MHz) QuasiPeak Filter Line Corr. Margin Limit CdBµV) 0.534000 41.1 Off N 19.4 14.9 56.0 0.678000 37.8 Off N 19.5 18.2 56.0 0.958000 37.6 Off N 19.5 18.4 56.0 1.366000 44.1 Off N 19.5 11.9 56.0 2.294000 39.1 Off N 19.5 16.9 56.0 3.110000 43.4 Off N 19.6 12.6 56.0 3.510000 42.1 Off N 19.6 12.2 56.0 3.510000 43.8 Off N 19.6 12.2 56.0 3.510000 43.8 Off N 19.6 12.2 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 < |
| Frequency in HzSinal Result : QuasiPeakLineCorr.MarginLimit(MHz)QuasiPeakFilterLineCorr.MarginLimit0.53400041.1OffN19.414.956.00.67800037.8OffN19.518.256.00.95800037.6OffN19.518.456.01.36600044.1OffN19.511.956.02.29400039.1OffN19.516.956.02.70200041.4OffN19.614.656.03.11000043.4OffN19.612.256.03.51000042.1OffN19.612.256.04.46200045.6OffN19.610.456.04.92600044.7OffN19.611.356.05.40600043.6OffN19.611.356.0 |
| Frequency in HzSinal Result : QuasiPeakCorr.MarginLimit(MHz)QuasiPeakFilterLineCorr.MarginLimit0.53400041.1OffN19.414.956.00.67800037.8OffN19.518.256.00.95800037.6OffN19.518.456.01.36600044.1OffN19.511.956.02.29400039.1OffN19.516.956.03.1000043.4OffN19.612.656.03.51000042.1OffN19.613.956.03.99800043.8OffN19.610.456.04.46200045.6OffN19.611.356.05.40600043.6OffN19.611.356.05.40600043.6OffN19.616.460.05.67000043.4OffN19.616.460.0 |
| Frequency in HzFinal Result : QuasiPeakCorr.MarginLimitMH2)QuasiPeakFilterLineCorr.MarginLimit0.53400041.1OffN19.414.956.00.67800037.8OffN19.518.256.00.95800037.6OffN19.518.456.01.36600044.1OffN19.511.956.02.29400039.1OffN19.516.956.03.1000043.4OffN19.614.656.03.5100042.1OffN19.612.256.03.5100043.8OffN19.610.456.04.46200045.6OffN19.611.356.04.92600044.7OffN19.611.356.05.40600043.6OffN19.611.356.0 |



| est Mode : | Mode 1 | | | Tem | peratur | e: | 20~22 ℃ | |
|--|--|---|--|--|--|---|---|---|
| est Engineer : | Kai-Chun Ch | nu | | Rela | ative Hu | midity : | 46~48% | |
| est Voltage : | 120Vac / 60H | Ηz | | Pha | se : | | Neutral | |
| unction Type : | WLAN (5GH | z) Link · | + RJ-4 | 45 Link | + Adapt | er | | |
| | 100 | | | | | | | |
| | | | | | | | | |
| | 90- | | | | | · · · · · · · · · · · · · · · · · · · | | |
| | 80 | | | | | | | |
| | 70- | | | | | | | |
| | | | | | | CIEDDAS | | |
| > | 60 | | | | | | 2- <u>QP Limit at Main P</u> orts | • |
| Level h dB _L M | 50 1 1 100 | | | | | CISPR22 | Ave Limit at Main Ports | |
| eve - | WV I Ar | | t m | | | | | |
| - | 40 | Y M | €"{{ \ | M. M | | | | |
| | 30 | | | | | •••••• | - All and a second s | |
| | 20- | | * | | • | | | |
| | 20 | | | | | | | |
| | 10 | | | | | | | |
| | | | | | | | | |
| | 0 | | | | | | | |
| | 0 | 400 500 | 800 1M | | | 1 5M 6 8 | 10M 20M 30M | |
| | 0 | 400 500 | 800 1M | _ | M 3M 4M ency in Hz | 1 5M 6 8 | 10M 20M 30M | |
| Einel Deen | 0 150k 300 | 400 500 | 800 1M | _ | | 1 5M 6 8 | 10M 20M 30M | |
| | 150k 300 | 400 500 | 800 1M | Frequ | ency in Hz | | 10M 20M 30M | |
| Frequency | It : Average | 400 500 Filter | 800 1M | Freque | ency in Hz Margin | Limit | 10M 20M 30M | |
| | 150k 300 | | | Frequ | ency in Hz | | 10M 20M 30M | |
| Frequency (MHz) | It : Average Average (dBµV) | Filter | Line | Freque Corr. (dB) | ency in Hz Margin (dB) | Limit (dBµV) | 10M 20M 30M | |
| Frequency (MHz) 0.534000 | It : Average Λ verage (dBµV) 26.9 | Filter Off | Line N | Freque Corr. (dB) 19.4 | Margin (dB) 19.1 | Limit (dBµV) 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 | It : Average (dBμV) 26.9 26.8 | Filter Off Off | Line N N | Freque Corr. (dB) 19.4 19.5 | Margin (dB) 19.1 19.2 | Limit (dBµV) 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 | It : Average (dBμV) 26.9 26.8 24.4 34.8 26.8 | Filter Off Off Off Off Off | Line N N N N | Freque (dB) 19.4 19.5 19.5 19.5 19.5 | Margin (dB) 19.1 19.2 21.6 11.2 19.2 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 | It : Average Λ Αverage (dBµV) 26.9 26.8 24.4 34.8 | Filter Off Off Off Off | Line N N N N | Freque Corr. (dB) 19.4 19.5 19.5 19.5 | Margin (dB) 19.1 19.2 21.6 11.2 | Limit (dBµV) 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 2.702000 3.110000 | It Average (dBμV) 26.9 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.5 29.6 | Filter Off Off Off Off Off Off Off | Line N N N N N N N | Freque (dB) 19.4 19.5 19.5 19.5 19.5 19.6 19.6 | Margin (dB) 19.1 19.2 21.6 11.2 19.2 21.5 16.4 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 2.702000 3.110000 3.510000 | It : Average (dBμV) 26.9 26.8 24.4 34.8 26.8 24.5 29.6 27.8 | Filter Off Off Off Off Off Off Off Off | Line N N N N N N N N | Freque Corr. (dB) 19.4 19.5 19.5 19.5 19.5 19.6 19.6 | Margin (dB) 19.1 19.2 21.6 11.2 19.2 21.5 16.4 18.2 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 2.702000 3.110000 3.510000 3.998000 | It : Average (dBμV) 26.9 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.3 34.8 26.8 24.5 29.6 27.8 31.6 | Filter Off Off Off Off Off Off Off Off Off | Line N N N N N N N N N N | Freque (dB) 19.4 19.5 19.5 19.5 19.5 19.6 19.6 19.6 | Margin (dB) 19.1 19.2 21.6 11.2 19.2 21.5 16.4 18.2 14.4 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 2.702000 3.110000 3.510000 3.998000 4.462000 | It Average (dBμV) 26.9 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.5 29.6 27.8 31.6 31.4 31.4 | Filter Off Off Off Off Off Off Off Off Off Of | Line N N N N N N N N N N N N | Freque (dB) 19.4 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.6 19.6 | Margin (dB) 19.1 19.2 21.6 11.2 19.2 21.5 16.4 18.2 14.4 14.6 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 2.702000 3.110000 3.510000 3.998000 4.462000 | It : Average (dBμV) 26.9 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.5 29.6 27.8 31.6 31.4 32.1 | Filter Off Off Off Off Off Off Off Off Off Of | Line N N N N N N N N N N N N | Freque (dB) 19.4 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.6 19.6 19.6 | Margin (dB) 19.1 19.2 21.6 11.2 21.5 16.4 18.2 14.4 14.6 13.9 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 2.702000 3.110000 3.510000 3.998000 4.462000 5.406000 | It : Average Average (dBµV) 26.9 26.9 26.8 24.4 34.8 26.8 24.5 29.6 27.8 31.6 31.4 32.1 33.3 | Filter Off Off Off Off Off Off Off Off Off Of | Line N N N N N N N N N N N N N | Freque (dB) 19.4 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.6 19.6 19.6 19.6 | Margin (dB) 19.1 19.2 21.6 11.2 19.2 21.5 16.4 18.2 14.4 14.6 13.9 16.7 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 2.702000 3.110000 3.510000 3.998000 4.462000 | It : Average (dBμV) 26.9 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.4 34.8 26.8 24.5 29.6 27.8 31.6 31.4 32.1 | Filter Off Off Off Off Off Off Off Off Off Of | Line N N N N N N N N N N N N | Freque (dB) 19.4 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.6 19.6 19.6 | Margin (dB) 19.1 19.2 21.6 11.2 21.5 16.4 18.2 14.4 14.6 13.9 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |
| Frequency (MHz) 0.534000 0.678000 0.958000 1.366000 2.294000 2.702000 3.110000 3.510000 3.998000 4.462000 4.926000 5.406000 5.670000 | It : Average (dBµV) 26.9 26.8 24.4 34.8 26.8 24.5 29.6 27.8 31.6 31.4 32.1 33.3 29.7 | Filter Off Off Off Off Off Off Off Off Off Of | Line N N N N N N N N N N N N N N | Freque (dB) 19.4 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 | Margin (dB) 19.1 19.2 21.6 11.2 19.2 21.5 16.4 18.2 14.4 14.6 13.9 16.7 20.3 | Limit (dBµV) 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 | 10M 20M 30M | |



3.3 Automatically Discontinue Transmission

3.3.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



3.4 Antenna Requirements

3.4.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.4.2 Antenna Anti-Replacement Construction

Non-standard antenna connector is used.

3.4.3 Antenna Gain

The antenna gain is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipments

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|--|-----------------|----------------------------|-------------|-----------------|---------------------|---------------------------------|---------------|--------------------------|
| Power Meter | Anritsu | ML2495A | 1036004 | 300MHz~40GHz | Aug. 09, 2014 | Sep. 03, 2014 | Aug. 08, 2015 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 1027253 | 300MHz~40GHz | Aug. 09, 2014 | Sep. 03, 2014 | Aug. 08, 2015 | Conducted (TH02-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100055 | 9kHz~40GHz | Jun. 09, 2014 | Aug. 29, 2014~ Aug. 30, 2014 | Jun. 08, 2015 | Radiation (03CH05-HY) |
| Bilog Antenna | Schaffner | CBL6111C | 2725 | 30MHz~1GHz | Oct. 10, 2013 | Aug. 29, 2014~ Aug. 30, 2014 | Oct. 09, 2014 | Radiation (03CH05-HY) |
| Double Ridged Guide Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1241 | 1GHz~18GHz | Apr. 16, 2014 | Aug. 29, 2014~ Aug. 30, 2014 | Apr. 15, 2015 | Radiation (03CH05-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 18GHz~40GHz | Oct. 03, 2013 | Aug. 29, 2014~ Aug. 30, 2014 | Oct. 02, 2014 | Radiation (03CH05-HY) |
| Preamplifier | MITEQ | AMF-7D-0010 1800-30-10P | 1590074 | 100kHz~18GHz | Jul. 07, 2014 | Aug. 29, 2014~ Aug. 30, 2014 | Jul. 06, 2015 | Radiation (03CH05-HY) |
| Preamplifier | EMCI | EMC011830 | 980148 | DC~18GHz | Jun. 23, 2014 | Aug. 29, 2014~ Aug. 30, 2014 | Jun. 22, 2015 | Radiation (03CH05-HY) |
| Preamplifier | COM-POWER | PA-103 | 161075 | 9kHz~30MHz | Apr. 15, 2014 | Aug. 29, 2014~ Aug. 30, 2014 | Apr. 14, 2015 | Radiation (03CH05-HY) |
| Preamplifier | Miteq | TTA0204 | 1872107 | 18GHz~40GHz | May 23, 2014 | Aug. 29, 2014~ Aug. 30, 2014 | May 22, 2015 | Radiation (03CH05-HY) |
| Turn Table | HD | HD100 | 420/611 | 0 - 360 degree | N/A | Aug. 29, 2014~ Aug. 30, 2014 | N/A | Radiation (03CH05-HY) |
| Antenna Mast | HD | HD100 | 240/666 | 1 m - 4 m | N/A | Aug. 29, 2014~ Aug. 30, 2014 | N/A | Radiation (03CH05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESCS 30 | 100356 | 9kHz ~ 2.75GHz | Nov. 15, 2013 | Jul. 31, 2014 | Nov. 14, 2014 | Conduction (CO05-HY) |
| LISN (for auxiliary equipment) | Rohde & Schwarz | ENV216 | 100081 | 9kHz ~ 30MHz | Dec. 12, 2013 | Jul. 31, 2014 | Dec. 11, 2014 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100080 | 9kHz ~ 30MHz | Dec. 04, 2013 | Jul. 31, 2014 | Dec. 03, 2014 | Conduction (CO05-HY) |
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | Jul. 31, 2014 | N/A | Conduction (CO05-HY) |



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.26 |
|--|------|
| | |

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| Measuring Uncertainty for a Level of | 5.10 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | 5.10 |