



# FCC RF Test Report

**APPLICANT** : Zebra Technologies Corporation  
**EQUIPMENT** : Personnel Badge  
**BRAND NAME** : ZEBRA  
**MODEL NAME** : MPACT-BRDGM  
**FCC ID** : UZ7MPACTBRDGM  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Oct. 06, 2016 and testing was completed on Nov. 07, 2016. 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.

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Reviewed by: Joseph Lin / Supervisor

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Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

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Page Number : 1 of 32  
Report Issued Date : Dec. 09, 2016  
Report Version : Rev. 01  
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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FR6O0724C  | Rev. 01 | Initial issue of report | Dec. 09, 2016 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule              | Description                            | Limit                                        | Result | Remark                                    |
|----------------|-----------------------|----------------------------------------|----------------------------------------------|--------|-------------------------------------------|
| 3.1            | 2.1049<br>15.403(i)   | 26dB & 99% Bandwidth                   | -                                            | Pass   | -                                         |
| 3.2            | 15.407(a)             | Maximum Conducted Output Power         | FCC<br>≤ 24 dBm<br>(depend on band)          | Pass   | -                                         |
| 3.3            | 15.407(a)             | Power Spectral Density                 | FCC<br>≤ 11 dBm<br>(depend on band)          | Pass   | -                                         |
| 3.4            | 15.407(b)             | Unwanted Emissions                     | ≤ -17, -27 dBm<br>(depend on band)&15.209(a) | Pass   | Under limit<br>1.00 dB at<br>5725.000 MHz |
| 3.5            | 15.207                | AC Conducted Emission                  | 15.207(a)                                    | Pass   | Under limit<br>12.30 dB at<br>0.150 MHz   |
| 3.6            | 15.407(g)             | Frequency Stability                    | Within Operation Band                        | Pass   | -                                         |
| 3.7            | 15.407(c)             | Automatically Discontinue Transmission | Discontinue Transmission                     | Pass   | -                                         |
| 3.8            | 15.203 &<br>15.407(a) | Antenna Requirement                    | N/A                                          | Pass   | -                                         |



# 1 General Description

## 1.1 Applicant

**Zebra Technologies Corporation**  
1 Zebra Plaza, Holtsville, NY 11742

## 1.2 Manufacturer

**Zebra Technologies Corporation**  
1 Zebra Plaza, Holtsville, NY 11742

## 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                     |
|---------------------------------|-------------------------------------|
| Equipment                       | Personnel Badge                     |
| Brand Name                      | ZEBRA                               |
| Model Name                      | MPACT-BRDGM                         |
| FCC ID                          | UZ7MPACTBRDGM                       |
| EUT supports Radios application | WLAN 11a/b/g/n HT20<br>Bluetooth LE |
| Wifi Code version               | 6.0.109.9                           |
| Wifi Tools version              | 9.0.0.341360                        |
| 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 of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx/Rx Frequency Range</b>            | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5700 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Maximum Output Power to Antenna</b>  | <b>&lt;EUT with J300 Antenna&gt;</b><br><b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br>802.11a : 16.98 dBm / 0.0499 W<br>802.11n HT20 : 16.89 dBm / 0.0489 W<br><b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br>802.11a : 16.93 dBm / 0.0493 W<br>802.11n HT20 : 16.75 dBm / 0.0473 W<br><b>&lt;5500 MHz ~ 5700 MHz &gt;</b><br>802.11a : 16.45 dBm / 0.0442 W<br>802.11n HT20 : 16.30 dBm / 0.0427 W<br><b>&lt;EUT with J301 Antenna&gt;</b><br><b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br>802.11a : 16.94 dBm / 0.0494 W<br>802.11n HT20 : 16.88 dBm / 0.0488 W<br><b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br>802.11a : 16.91 dBm / 0.0491 W<br>802.11n HT20 : 16.74 dBm / 0.0472 W<br><b>&lt;5500 MHz ~ 5700 MHz &gt;</b><br>802.11a : 16.38 dBm / 0.0435 W<br>802.11n HT20 : 16.26 dBm / 0.0423 W |
| <b>99% Occupied Bandwidth</b>           | <b>&lt;EUT with J300 Antenna&gt;</b><br>802.11a : 18.05 MHz<br>802.11n HT20 : 19.20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Antenna Gain / Gain</b>              | Dipole Antenna with gain 4.30 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Type of Modulation</b>               | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Note:**

1. WLAN operation in 5600 MHz ~ 5650 MHz is notched.
2. This device has two kinds of WLAN antenna (J300 Antenna and J301 Antenna), and the J300 has max RF Power. Thus, all tests were performed with J300 Antenna.

## 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.                                                                                                                                       |         |           |
| Test Site Location | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |         |           |
| Test Site No.      | Sporton Site No.                                                                                                                                                 |         |           |
|                    | TH05-HY                                                                                                                                                          | CO05-HY | 03CH07-HY |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

## 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 D02 General UNII Test Procedures New Rules v01r03
- ♦ ANSI C63.10-2013

### 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 (Y plane) were recorded in this report.

### 2.1 Carrier Frequency Channel

| Frequency Band                       | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|--------------------------------------|---------|-------------|---------|-------------|
| 5150-5250 MHz<br>Band 1<br>(U-NII-1) | 36      | 5180        | 44      | 5220        |
|                                      | -       | -           | -       | -           |
|                                      | 40      | 5200        | 48      | 5240        |
|                                      | -       | -           | -       | -           |

| Frequency Band                        | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---------------------------------------|---------|-------------|---------|-------------|
| 5250-5350 MHz<br>Band 2<br>(U-NII-2A) | 52      | 5260        | 60      | 5300        |
|                                       | -       | -           | -       | -           |
|                                       | 56      | 5280        | 64      | 5320        |
|                                       | -       | -           | -       | -           |

| Frequency Band                        | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---------------------------------------|---------|-------------|---------|-------------|
| 5470-5725 MHz<br>Band 3<br>(U-NII-2C) | 100     | 5500        | 112     | 5560        |
|                                       | -       | -           | 116     | 5580        |
|                                       | 104     | 5520        | 132     | 5660        |
|                                       | -       | -           | -       | -           |
|                                       | 108     | 5540        | 136     | 5680        |
|                                       | -       | -           | 140     | 5700        |

## 2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

| Modulation   | Data Rate |
|--------------|-----------|
| 802.11a      | 6 Mbps    |
| 802.11n HT20 | MCS0      |

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| <b>AC Conducted Emission</b> | Mode 1 : Jamaica charging from Toaster + Bluetooth Idle + WLAN Idle + AC Adapter (PS000084A01) |
|------------------------------|------------------------------------------------------------------------------------------------|

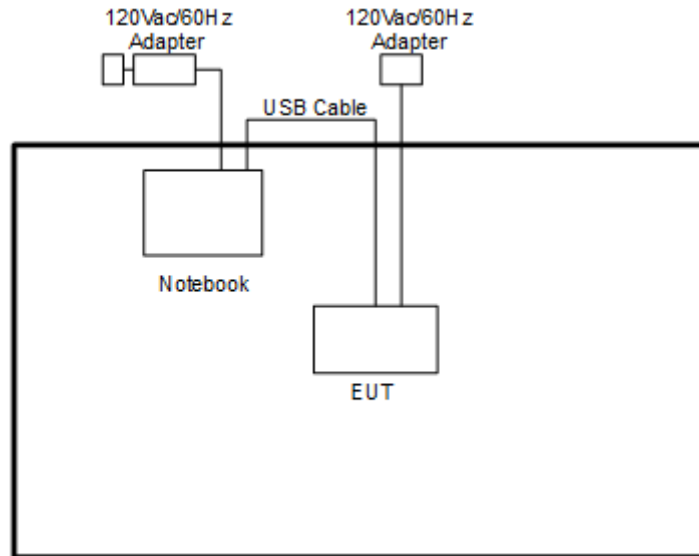
| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11a                | 802.11a                 | 802.11a                 |
| L     | Low    | 36                     | 52                      | 100                     |
| M     | Middle | 44                     | 60                      | 116                     |
| H     | High   | 48                     | 64                      | 140                     |

| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11n HT20           | 802.11n HT20            | 802.11n HT20            |
| L     | Low    | 36                     | 52                      | 100                     |
| M     | Middle | 44                     | 60                      | 116                     |
| H     | High   | 48                     | 64                      | 140                     |

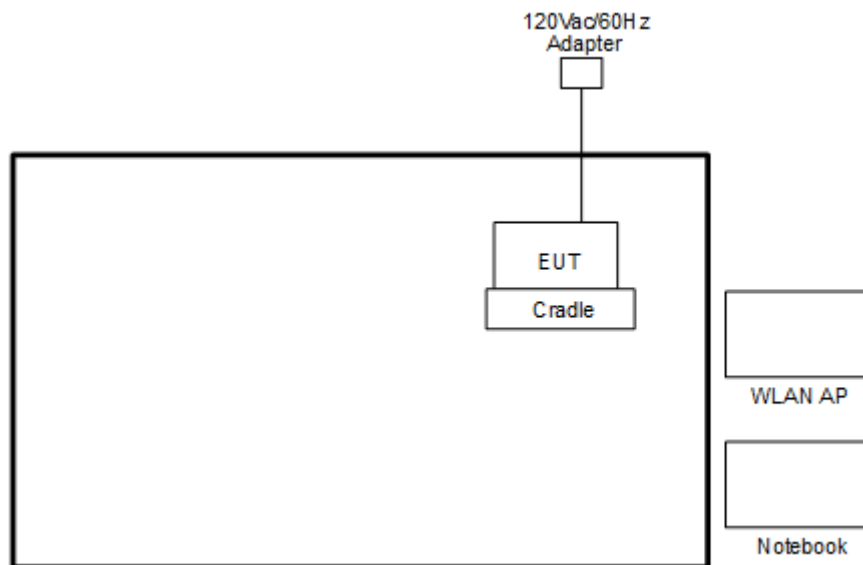
| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11n HT40           | 802.11n HT40            | 802.11n HT40            |
| L     | Low    | 38                     | 54                      | 102                     |
| M     | Middle | -                      | -                       | 110                     |
| H     | High   | 46                     | 62                      | 134                     |

## 2.3 Connection Diagram of Test System

### <WLAN Tx Mode>



### <AC Conducted Emission Mode>



## 2.4 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model Name     | FCC ID                                     | Data Cable      | Power Cord                                                   |
|------|------------------|------------|----------------|--------------------------------------------|-----------------|--------------------------------------------------------------|
| 1.   | WLAN AP          | D-Link     | DIR-628        | KA2DIR628A2                                | N/A             | Unshielded, 1.8 m                                            |
| 2.   | Notebook         | DELL       | Latitude E3340 | FCC DoC/<br>Contains FCC ID:<br>PD97260NGU | N/A             | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m   |
| 3.   | Notebook         | Lenovo     | E335           | FCC DoC                                    | N/A             | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m   |
| 4.   | Cradle (Toaster) | Zebra      | MPACT-CRADLE   | FCC DoC                                    | Shielded, 1.0 m | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Unshielded, 1.0 m |

## 2.5 EUT Operation Test Setup

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

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

### 3 Test Result

#### 3.1 26dB & 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

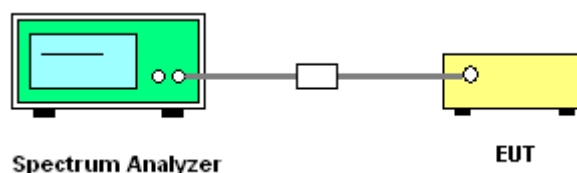
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.  
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.  
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW)  $\geq 3 * \text{RBW}$ .
8. Measure and record the results in the test report.

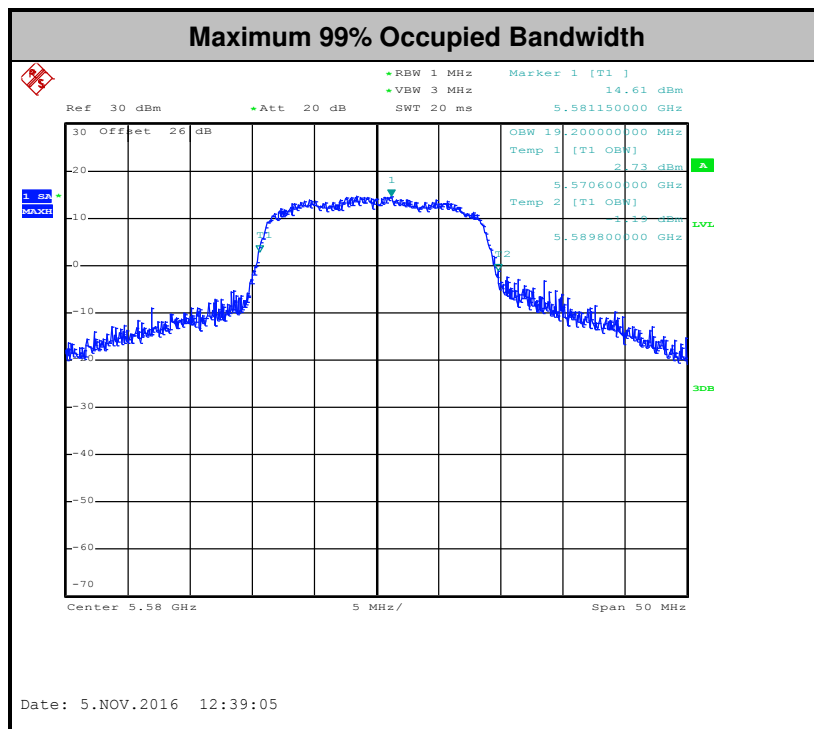
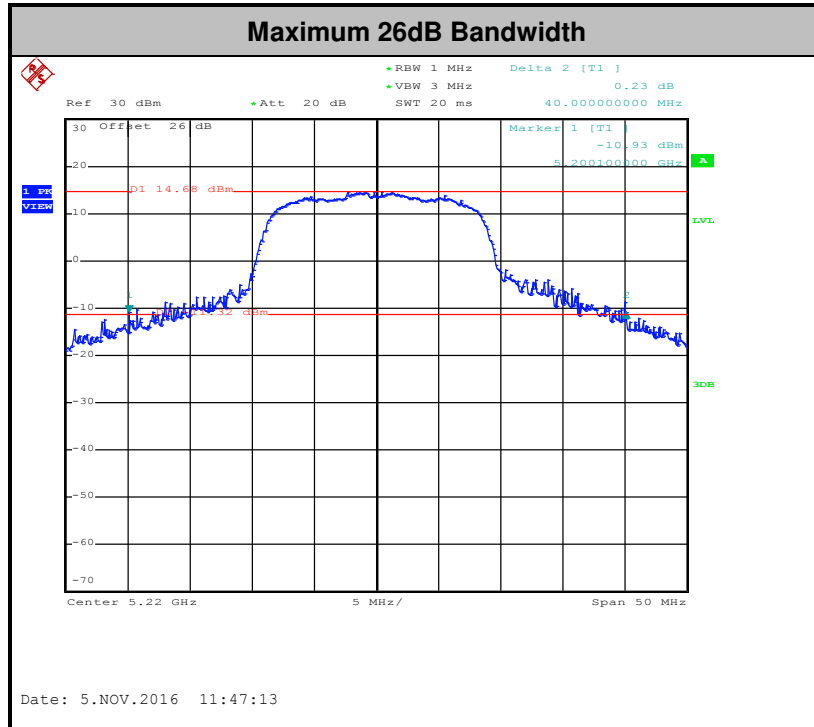
##### 3.1.4 Test Setup





### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Please refer to Appendix A.





## **3.2 Maximum Conducted Output Power Measurement**

### **3.2.1 Limit of Maximum Conducted Output Power**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

### **3.2.2 Measuring Instruments**

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

### 3.2.3 Test Procedures

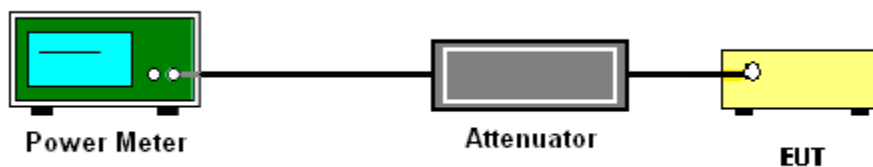
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where  $x$  is the duty cycle.

### 3.2.4 Test Setup

For normal channel:



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### **3.3 Power Spectral Density Measurement**

#### **3.3.1 Limit of Power Spectral Density**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **3.3.2 Measuring Instruments**

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

### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

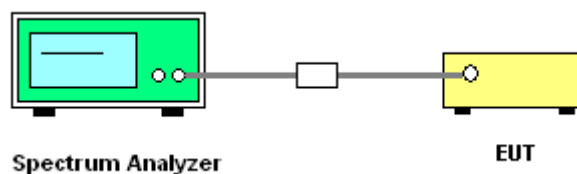
Section F) Maximum power spectral density.

#### # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
  - Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging mode.
  - Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

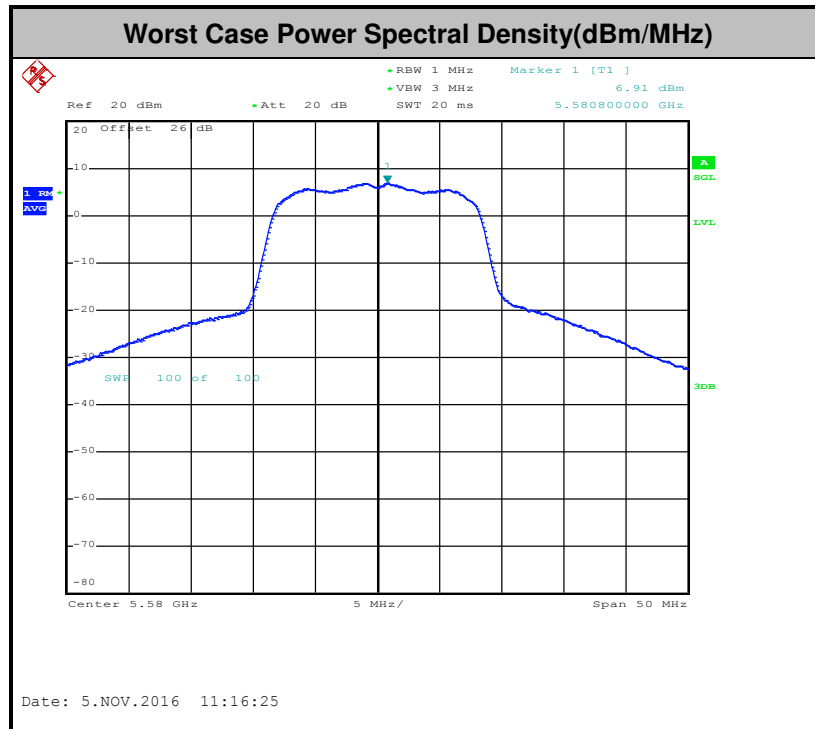
### 3.3.4 Test Setup





### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



**Note:** Average Power Density (dB) = Measured value+ Duty Factor

### 3.4 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 Part 15.205.

#### 3.4.1 Limit of Unwanted Emissions

- (1) 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.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

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

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts)}$$

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

- (3) KDB789033 D01 v01r03 G)2)c) 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.

### 3.4.2 Measuring Instruments

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

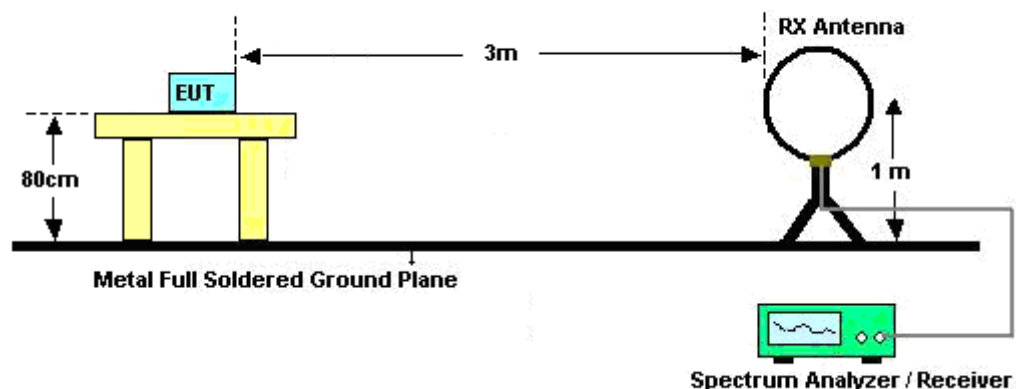
### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section G) 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
    - RBW = 1 MHz
    - VBW ≥ 3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - 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.

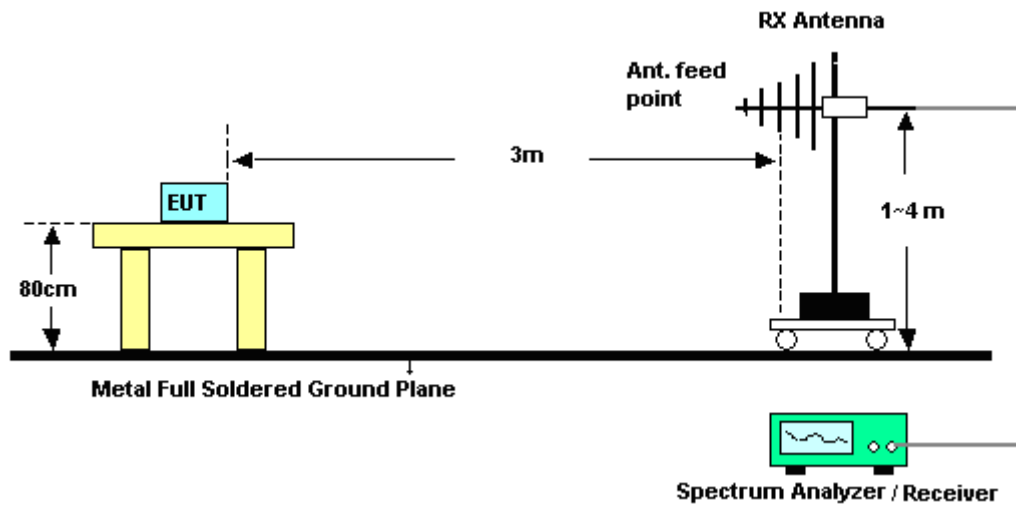
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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.

### 3.4.4 Test Setup

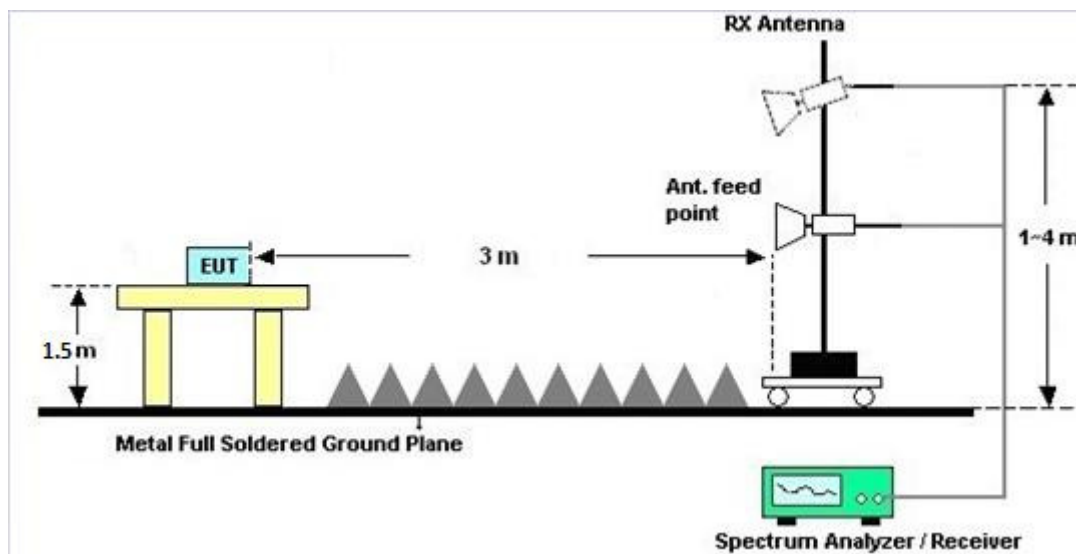
**For radiated emissions below 30MHz**



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





### **3.4.5 Test Results of Radiated Spurious 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.

### **3.4.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix B and C.

### **3.4.7 Duty Cycle**

Please refer to Appendix D.

### **3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)**

Please refer to Appendix B and C.

### 3.5 AC Conducted Emission Measurement

#### 3.5.1 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 (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | 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.

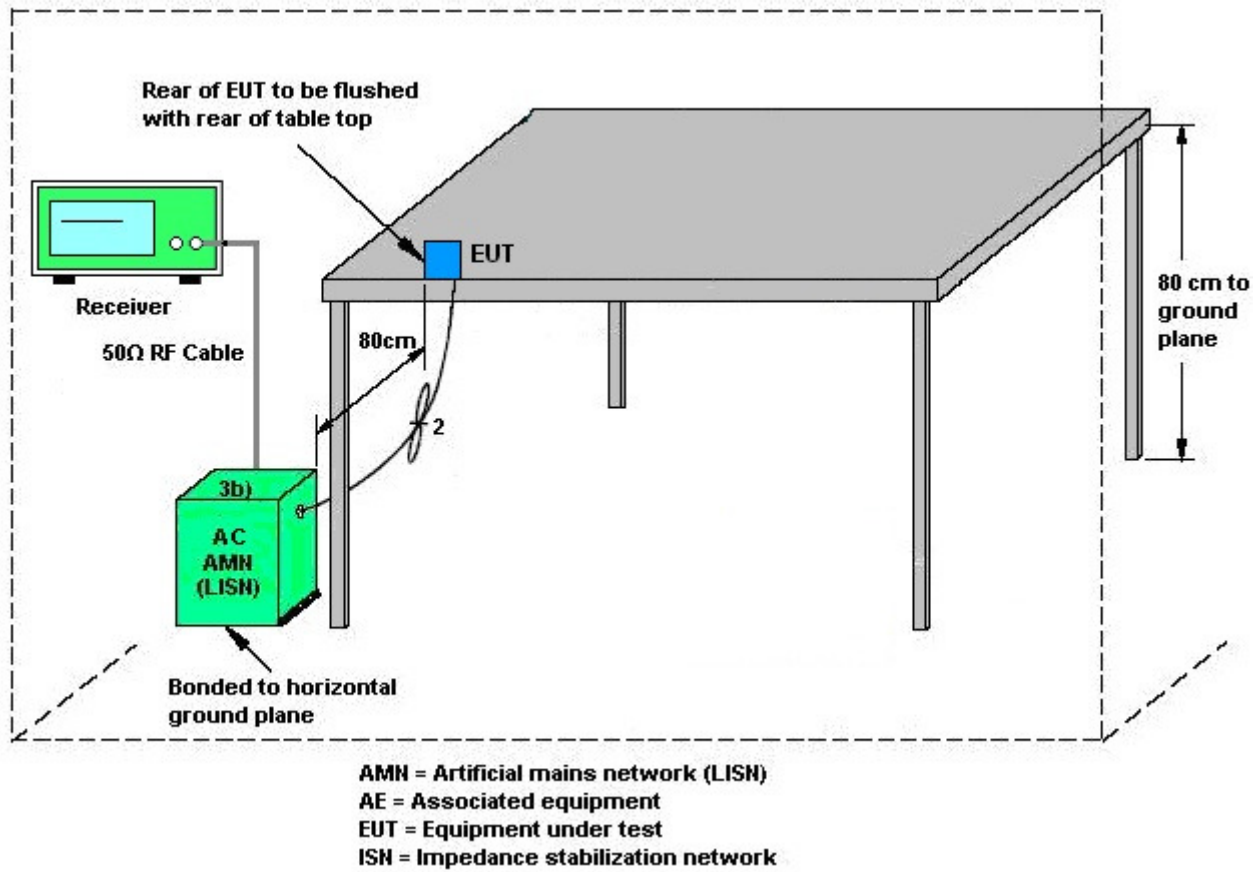
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

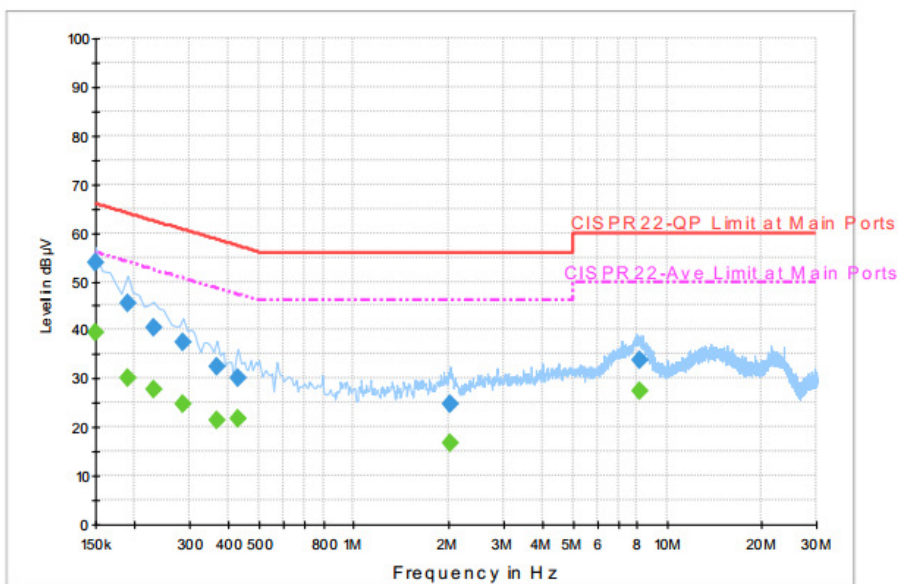
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

|                        |                                                                                       |                            |         |
|------------------------|---------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                                | <b>Temperature :</b>       | 24~25°C |
| <b>Test Engineer :</b> | Kai-Chun Chu                                                                          | <b>Relative Humidity :</b> | 49~50%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                         | <b>Phase :</b>             | Line    |
| <b>Function Type :</b> | Jamaica charging from Toaster + Bluetooth Idle + WLAN Idle + AC Adapter (PS000084A01) |                            |         |



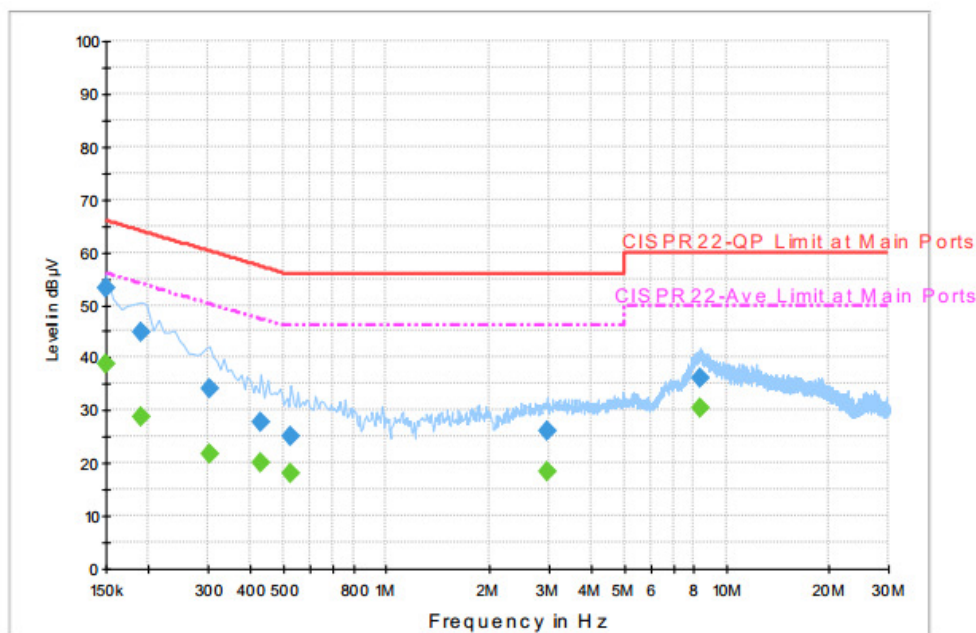
#### Final Result : Quasi-Peak

| Frequency (MHz) | Quasi-Peak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 53.7              | Off    | L1   | 19.6       | 12.3        | 66.0         |
| 0.190000        | 45.5              | Off    | L1   | 19.6       | 18.5        | 64.0         |
| 0.230000        | 40.4              | Off    | L1   | 19.6       | 22.0        | 62.4         |
| 0.286000        | 37.5              | Off    | L1   | 19.6       | 23.1        | 60.6         |
| 0.366000        | 32.6              | Off    | L1   | 19.6       | 26.0        | 58.6         |
| 0.430000        | 30.1              | Off    | L1   | 19.6       | 27.2        | 57.3         |
| 2.038000        | 24.7              | Off    | L1   | 19.1       | 31.3        | 56.0         |
| 8.150000        | 33.7              | Off    | L1   | 20.0       | 26.3        | 60.0         |

#### Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 39.6           | Off    | L1   | 19.6       | 16.4        | 56.0         |
| 0.190000        | 30.2           | Off    | L1   | 19.6       | 23.8        | 54.0         |
| 0.230000        | 27.8           | Off    | L1   | 19.6       | 24.6        | 52.4         |
| 0.286000        | 24.8           | Off    | L1   | 19.6       | 25.8        | 50.6         |
| 0.366000        | 21.3           | Off    | L1   | 19.6       | 27.3        | 48.6         |
| 0.430000        | 21.6           | Off    | L1   | 19.6       | 25.7        | 47.3         |
| 2.038000        | 16.6           | Off    | L1   | 19.1       | 29.4        | 46.0         |
| 8.150000        | 27.5           | Off    | L1   | 20.0       | 22.5        | 50.0         |

|                        |                                                                                       |                            |         |
|------------------------|---------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                                | <b>Temperature :</b>       | 24~25°C |
| <b>Test Engineer :</b> | Kai-Chun Chu                                                                          | <b>Relative Humidity :</b> | 49~50%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                         | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | Jamaica charging from Toaster + Bluetooth Idle + WLAN Idle + AC Adapter (PS000084A01) |                            |         |


**Final Result : Quasi-Peak**

| Frequency (MHz) | Quasi-Peak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 53.2              | Off    | N    | 19.6       | 12.8        | 66.0         |
| 0.190000        | 44.8              | Off    | N    | 19.6       | 19.2        | 64.0         |
| 0.302000        | 34.1              | Off    | N    | 19.6       | 26.1        | 60.2         |
| 0.430000        | 27.7              | Off    | N    | 19.6       | 29.6        | 57.3         |
| 0.526000        | 24.9              | Off    | N    | 19.6       | 31.1        | 56.0         |
| 2.974000        | 26.3              | Off    | N    | 19.6       | 29.7        | 56.0         |
| 8.374000        | 36.1              | Off    | N    | 20.0       | 23.9        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 38.7           | Off    | N    | 19.6       | 17.3        | 56.0         |
| 0.190000        | 28.9           | Off    | N    | 19.6       | 25.1        | 54.0         |
| 0.302000        | 21.8           | Off    | N    | 19.6       | 28.4        | 50.2         |
| 0.430000        | 20.1           | Off    | N    | 19.6       | 27.2        | 47.3         |
| 0.526000        | 18.0           | Off    | N    | 19.6       | 28.0        | 46.0         |
| 2.974000        | 18.4           | Off    | N    | 19.6       | 27.6        | 46.0         |
| 8.374000        | 30.5           | Off    | N    | 20.0       | 19.5        | 50.0         |

## 3.6 Frequency Stability Measurement

### 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

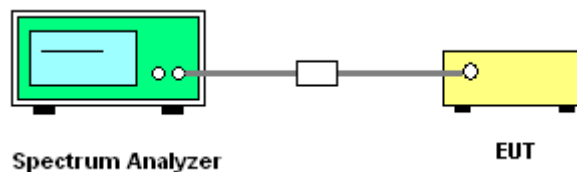
### 3.6.2 Measuring Instruments

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

### 3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

### 3.6.4 Test Setup



### 3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



## **3.7 Automatically Discontinue Transmission**

### **3.7.1 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.

### **3.7.2 Measuring Instruments**

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

### **3.7.3 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.



## **3.8 Antenna Requirements**

### **3.8.1 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.

### **3.8.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.8.3 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                         | 0932001         | 300MHz~40GHz      | Sep. 29, 2016    | Nov. 03, 2016 ~<br>Nov. 07, 2016 | Sep. 28, 2017 | Conducted<br>(TH05-HY)   |
| Power Sensor              | Anritsu         | MA2411B                         | 0846202         | 300MHz~40GHz      | Sep. 29, 2016    | Nov. 03, 2016 ~<br>Nov. 07, 2016 | Sep. 28, 2017 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer         | Rohde & Schwarz | FSP40                           | 100055          | 9kHz-40GHz        | Jul. 17, 2016    | Nov. 03, 2016 ~<br>Nov. 07, 2016 | Jul. 16, 2017 | Conducted<br>(TH05-HY)   |
| Temperature Chamber       | ESPEC           | SH-641                          | 92013720        | -40℃ ~90℃         | Sep. 01, 2016    | Nov. 03, 2016 ~<br>Nov. 07, 2016 | Aug. 31, 2017 | Conducted<br>(TH05-HY)   |
| Programmable Power Supply | GW Instek       | PSS-2005                        | EL890094        | 1V~20V<br>0.5A~5A | Oct. 11, 2016    | Nov. 03, 2016 ~<br>Nov. 07, 2016 | Oct. 10, 2017 | Conducted<br>(TH05-HY)   |
| AC Power Source           | ChainTek        | APC-1000W                       | N/A             | N/A               | N/A              | Oct. 18, 2016                    | N/A           | Conduction<br>(CO05-HY)  |
| EMI Test Receiver         | Rohde & Schwarz | ESCI 7                          | 100724          | 9kHz~7GHz         | Aug. 30, 2016    | Oct. 18, 2016                    | Aug. 29, 2017 | Conduction<br>(CO05-HY)  |
| LISN                      | Rohde & Schwarz | ENV216                          | 100080          | 9kHz~30MHz        | Dec. 02, 2015    | Oct. 18, 2016                    | Dec. 01, 2016 | Conduction<br>(CO05-HY)  |
| Bilog Antenna             | TESEQ           | CBL<br>6111D&00800<br>N1D01N-06 | 35419&03        | 30MHz to 1GHz     | Jan. 13, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Jan. 12, 2017 | Radiation<br>(03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                            | 00075962        | 1GHz ~ 18GHz      | Aug. 19, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Aug. 18, 2017 | Radiation<br>(03CH07-HY) |
| EMI Test Receiver         | Keysight        | N9038A (MXE)                    | MY54130085      | 20Hz ~ 8.4GHz     | Oct. 26, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Oct. 25, 2017 | Radiation<br>(03CH07-HY) |
| Loop Antenna              | Rohde & Schwarz | HFH2-Z2                         | 100315          | 9 kHz~30 MHz      | Sep. 02, 2015    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Sep. 01, 2017 | Radiation<br>(03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0010<br>1800-30-10P      | 1590075         | 1GHz ~ 18GHz      | Apr. 15, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Apr. 14, 2017 | Radiation<br>(03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                         | 161241          | 10MHz-1GHz        | Mar. 18, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Mar. 17, 2017 | Radiation<br>(03CH07-HY) |
| Preamplifier              | Agilent         | 8449B                           | 3008A02362      | 1GHz~ 26.5GHz     | Oct. 12, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Oct. 11, 2017 | Radiation<br>(03CH07-HY) |
| Spectrum Analyzer         | Agilent         | N9010A                          | MY53470118      | 10Hz~44GHz        | Feb. 27, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Feb. 26, 2017 | Radiation<br>(03CH07-HY) |
| Antenna Mast              | Max-Full        | MFA520BS                        | N/A             | 1m~4m             | N/A              | Oct. 30, 2016 ~<br>Nov. 05, 2016 | N/A           | Radiation<br>(03CH07-HY) |
| Turn Table                | ChainTek        | Chaintek 3000                   | N/A             | 0~360 Degree      | N/A              | Oct. 30, 2016 ~<br>Nov. 05, 2016 | N/A           | Radiation<br>(03CH07-HY) |
| Preamplifier              | MITEQ           | JS44-1800400<br>0-33-8P         | 1840917         | 18GHz ~ 40GHz     | Jun. 14, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Jun. 13, 2017 | Radiation<br>(03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK     | BBHA 9170                       | BBHA917025<br>1 | 18GHz- 40GHz      | Oct. 07, 2016    | Oct. 30, 2016 ~<br>Nov. 05, 2016 | Oct. 06, 2017 | Radiation<br>(03CH07-HY) |

## 5 Uncertainty of Evaluation

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

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 2.7 |
|----------------------------------------------------------------------------|-----|

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

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.7 |
|----------------------------------------------------------------------------|-----|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.5 |
|----------------------------------------------------------------------------|-----|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.2 |
|----------------------------------------------------------------------------|-----|



## **Appendix A. Conducted Test Results**

<EUT with J300 Antenna>

|                |                         |                    |       |    |
|----------------|-------------------------|--------------------|-------|----|
| Test Engineer: | Luffy Lin and Tommy Lee | Temperature:       | 21~25 | °C |
| Test Date:     | 2016/11/3~2016/11/7     | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**26dB and 99% OBW**

| Band I |           |     |     |             |                     |                       |                                    |                                   |  |  |
|--------|-----------|-----|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--|--|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) |  |  |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 17.80               | 32.70                 | -                                  | 22.50                             |  |  |
| 11a    | 6Mbps     | 1   | 44  | 5220        | 17.70               | 38.10                 | -                                  | 22.48                             |  |  |
| 11a    | 6Mbps     | 1   | 48  | 5240        | 18.05               | 37.00                 | -                                  | 22.56                             |  |  |
| HT20   | MCS0      | 1   | 36  | 5180        | 18.40               | 34.50                 | -                                  | 22.65                             |  |  |
| HT20   | MCS0      | 1   | 44  | 5220        | 18.65               | 40.00                 | -                                  | 22.71                             |  |  |
| HT20   | MCS0      | 1   | 48  | 5240        | 18.65               | 36.30                 | -                                  | 22.71                             |  |  |

**TEST RESULTS DATA**  
**Average Power Table**

| FCC Band I |           |     |     |             |                  |                               |                                 |          |  |           |
|------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|--|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) |  | Pass/Fail |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.15             | 15.90                         | 24.00                           | 4.30     |  | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.15             | 16.95                         | 24.00                           | 4.30     |  | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.15             | 16.98                         | 24.00                           | 4.30     |  | Pass      |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.13             | 15.77                         | 24.00                           | 4.30     |  | Pass      |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.13             | 16.89                         | 24.00                           | 4.30     |  | Pass      |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.13             | 16.79                         | 24.00                           | 4.30     |  | Pass      |

| IC Band I |           |     |     |             |                  |                               |                                |          |                           |           |
|-----------|-----------|-----|-----|-------------|------------------|-------------------------------|--------------------------------|----------|---------------------------|-----------|
| Mod.      | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | IC Conducted Power Limit (dBm) | DG (dBi) | IC EIRP Power Limit (dBm) | Pass/Fail |
| 11a       | 6Mbps     | 1   | 36  | 5180        | 0.15             | 15.90                         | 18.20                          | 4.30     | 22.50                     | Pass      |
| 11a       | 6Mbps     | 1   | 44  | 5220        | 0.15             | 16.95                         | 18.18                          | 4.30     | 22.48                     | Pass      |
| 11a       | 6Mbps     | 1   | 48  | 5240        | 0.15             | 16.98                         | 18.26                          | 4.30     | 22.56                     | Pass      |
| HT20      | MCS0      | 1   | 36  | 5180        | 0.13             | 15.77                         | 18.35                          | 4.30     | 22.65                     | Pass      |
| HT20      | MCS0      | 1   | 44  | 5220        | 0.13             | 16.89                         | 18.41                          | 4.30     | 22.71                     | Pass      |
| HT20      | MCS0      | 1   | 48  | 5240        | 0.13             | 16.79                         | 18.41                          | 4.30     | 22.71                     | Pass      |

**TEST RESULTS DATA**  
**Power Spectral Density**

| FCC Band I |           |     |     |             |                  |                                 |                             |          |   |           |
|------------|-----------|-----|-----|-------------|------------------|---------------------------------|-----------------------------|----------|---|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) | - | Pass/Fail |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.15             | 4.99                            | 11.00                       | 4.30     |   | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.15             | 6.50                            | 11.00                       | 4.30     |   | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.15             | 6.41                            | 11.00                       | 4.30     |   | Pass      |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.13             | 5.09                            | 11.00                       | 4.30     |   | Pass      |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.13             | 6.28                            | 11.00                       | 4.30     |   | Pass      |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.13             | 6.12                            | 11.00                       | 4.30     |   | Pass      |

**TEST RESULTS DATA**  
**26dB and 99% OBW**

| Band II |           |     |     |             |                     |                       |                                    |                                   |                                      |      |
|---------|-----------|-----|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--------------------------------------|------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | FCC 26dB Bandwidth Power Limit (dBm) | Note |
| 11a     | 6M bps    | 1   | 52  | 5260        | 17.75               | 36.10                 | 23.49                              | 29.49                             | 23.98                                |      |
| 11a     | 6M bps    | 1   | 60  | 5300        | 17.70               | 36.20                 | 23.48                              | 29.48                             | 23.98                                |      |
| 11a     | 6M bps    | 1   | 64  | 5320        | 17.60               | 32.70                 | 23.46                              | 29.46                             | 23.98                                |      |
| HT20    | MCS 0     | 1   | 52  | 5260        | 18.50               | 38.20                 | 23.67                              | 29.67                             | 23.98                                |      |
| HT20    | MCS 0     | 1   | 60  | 5300        | 18.35               | 35.60                 | 23.64                              | 29.64                             | 23.98                                |      |
| HT20    | MCS 0     | 1   | 64  | 5320        | 18.20               | 34.20                 | 23.60                              | 29.60                             | 23.98                                |      |

**TEST RESULTS DATA**  
**Average Power Table**

| FCC Band II |           |     |     |             |                  |                               |                                 |          |                        |           |
|-------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|------------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | EIRP Power Limit (dBm) | Pass/Fail |
| 11a         | 6M bps    | 1   | 52  | 5260        | 0.15             | 16.93                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| 11a         | 6M bps    | 1   | 60  | 5300        | 0.15             | 16.22                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| 11a         | 6M bps    | 1   | 64  | 5320        | 0.15             | 15.21                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 52  | 5260        | 0.13             | 16.75                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 60  | 5300        | 0.13             | 16.23                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 64  | 5320        | 0.13             | 15.14                         | 23.98                           | 4.30     | 26.99                  | Pass      |

| IC Band II |           |     |     |             |                  |                               |                                |          |                           |           |
|------------|-----------|-----|-----|-------------|------------------|-------------------------------|--------------------------------|----------|---------------------------|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | IC Conducted Power Limit (dBm) | DG (dBi) | IC EIRP Power Limit (dBm) | Pass/Fail |
| 11a        | 6M bps    | 1   | 52  | 5260        | 0.15             | 16.93                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| 11a        | 6M bps    | 1   | 60  | 5300        | 0.15             | 16.22                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| 11a        | 6M bps    | 1   | 64  | 5320        | 0.15             | 15.21                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20       | MCS 0     | 1   | 52  | 5260        | 0.13             | 16.75                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20       | MCS 0     | 1   | 60  | 5300        | 0.13             | 16.23                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20       | MCS 0     | 1   | 64  | 5320        | 0.13             | 15.14                         | 22.69                          | 4.30     | 26.99                     | Pass      |

**TEST RESULTS DATA**  
**Power Spectral Density**

| Band II |           |     |     |             |                  |                                 |                             |          |  |           |
|---------|-----------|-----|-----|-------------|------------------|---------------------------------|-----------------------------|----------|--|-----------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) |  | Pass/Fail |
| 11a     | 6M bps    | 1   | 52  | 5260        | 0.15             | 6.38                            | 11.00                       | 4.30     |  | Pass      |
| 11a     | 6M bps    | 1   | 60  | 5300        | 0.15             | 5.39                            | 11.00                       | 4.30     |  | Pass      |
| 11a     | 6M bps    | 1   | 64  | 5320        | 0.15             | 4.22                            | 11.00                       | 4.30     |  | Pass      |
| HT20    | MCS 0     | 1   | 52  | 5260        | 0.13             | 5.96                            | 11.00                       | 4.30     |  | Pass      |
| HT20    | MCS 0     | 1   | 60  | 5300        | 0.13             | 5.12                            | 11.00                       | 4.30     |  | Pass      |
| HT20    | MCS 0     | 1   | 64  | 5320        | 0.13             | 3.99                            | 11.00                       | 4.30     |  | Pass      |

**TEST RESULTS DATA**  
**26dB and 99% OBW**

| Band III |           |     |     |             |                     |                       |                                    |                                   |                                      |      |
|----------|-----------|-----|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--------------------------------------|------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | FCC 26dB Bandwidth Power Limit (dBm) | Note |
| 11a      | 6M bps    | 1   | 100 | 5500        | 17.55               | 38.50                 | 23.44                              | 29.44                             | 23.98                                |      |
| 11a      | 6M bps    | 1   | 116 | 5580        | 18.05               | 39.90                 | 23.56                              | 29.56                             | 23.98                                |      |
| 11a      | 6M bps    | 1   | 140 | 5700        | 17.40               | 34.80                 | 23.41                              | 29.41                             | 23.98                                |      |
| HT20     | MCS 0     | 1   | 100 | 5500        | 18.40               | 38.30                 | 23.65                              | 29.65                             | 23.98                                |      |
| HT20     | MCS 0     | 1   | 116 | 5580        | 19.20               | 39.80                 | 23.83                              | 29.83                             | 23.98                                |      |
| HT20     | MCS 0     | 1   | 140 | 5700        | 18.30               | 35.60                 | 23.62                              | 29.62                             | 23.98                                |      |

**TEST RESULTS DATA**  
**Average Power Table**

| FCC Band III |           |     |     |             |                  |                               |                                 |          |                        |           |
|--------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|------------------------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | EIRP Power Limit (dBm) | Pass/Fail |
| 11a          | 6M bps    | 1   | 100 | 5500        | 0.15             | 16.17                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 116 | 5580        | 0.15             | 16.45                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 140 | 5700        | 0.15             | 14.65                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 100 | 5500        | 0.13             | 15.88                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 116 | 5580        | 0.13             | 16.30                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 140 | 5700        | 0.13             | 14.55                         | 23.98                           | 4.30     | 26.99                  | Pass      |

| IC Band III |           |     |     |             |                  |                               |                                |          |                           |           |
|-------------|-----------|-----|-----|-------------|------------------|-------------------------------|--------------------------------|----------|---------------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | IC Conducted Power Limit (dBm) | DG (dBi) | IC EIRP Power Limit (dBm) | Pass/Fail |
| 11a         | 6Mbps     | 1   | 100 | 5500        | 0.15             | 16.17                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| 11a         | 6Mbps     | 1   | 116 | 5580        | 0.15             | 16.45                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| 11a         | 6Mbps     | 1   | 140 | 5700        | 0.15             | 14.65                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20        | MCS0      | 1   | 100 | 5500        | 0.13             | 15.88                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20        | MCS0      | 1   | 116 | 5580        | 0.13             | 16.30                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20        | MCS0      | 1   | 140 | 5700        | 0.13             | 14.55                         | 22.69                          | 4.30     | 26.99                     | Pass      |

**TEST RESULTS DATA**  
**Power Spectral Density**

| Band III |           |     |     |             |                  |                                 |                             |          |  |           |
|----------|-----------|-----|-----|-------------|------------------|---------------------------------|-----------------------------|----------|--|-----------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) |  | Pass/Fail |
| 11a      | 6M bps    | 1   | 100 | 5500        | 0.15             | 6.41                            | 11.00                       | 4.30     |  | Pass      |
| 11a      | 6M bps    | 1   | 116 | 5580        | 0.15             | 7.06                            | 11.00                       | 4.30     |  | Pass      |
| 11a      | 6M bps    | 1   | 140 | 5700        | 0.15             | 4.48                            | 11.00                       | 4.30     |  | Pass      |
| HT20     | MCS 0     | 1   | 100 | 5500        | 0.13             | 6.17                            | 11.00                       | 4.30     |  | Pass      |
| HT20     | MCS 0     | 1   | 116 | 5580        | 0.13             | 6.76                            | 11.00                       | 4.30     |  | Pass      |
| HT20     | MCS 0     | 1   | 140 | 5700        | 0.13             | 4.17                            | 11.00                       | 4.30     |  | Pass      |

**TEST RESULTS DATA**  
**Frequency Stability**

| Band I |           |     |     |             |                        |                           |                           |                  |             |      |
|--------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5179.950               | -0.050                    | -9.65                     | 50               | 3.7         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.050               | 0.050                     | 9.65                      | -30              | 3.7         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5179.950               | -0.050                    | -9.65                     | 20               | 4.2         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5179.950               | -0.050                    | -9.65                     | 20               | 3.1         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5179.950               | -0.050                    | -9.65                     | 20               | 3.7         |      |

| Band II |           |     |     |             |                        |                           |                           |                  |             |      |
|---------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5319.950               | -0.050                    | -9.40                     | 50               | 3.7         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5319.950               | -0.050                    | -9.40                     | -30              | 3.7         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 4.2         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5319.950               | -0.050                    | -9.40                     | 20               | 3.1         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 3.7         |      |

| Band III |           |     |     |             |                        |                           |                           |                  |             |      |
|----------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5499.950               | -0.050                    | -9.09                     | 50               | 3.7         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.050               | 0.050                     | 9.09                      | -30              | 3.7         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5499.950               | -0.050                    | -9.09                     | 20               | 4.2         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5499.950               | -0.050                    | -9.09                     | 20               | 3.1         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5499.950               | -0.050                    | -9.09                     | 20               | 3.7         |      |



<EUT with J301 Antenna>

|                |                         |                    |       |    |
|----------------|-------------------------|--------------------|-------|----|
| Test Engineer: | Luffy Lin and Tommy Lee | Temperature:       | 21~25 | °C |
| Test Date:     | 2016/11/4               | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**Average Power Table**

| FCC Band I |           |     |     |             |                  |                               |                                 |          |  |           |
|------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|--|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) |  | Pass/Fail |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.12             | 15.88                         | 24.00                           | 4.30     |  | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.12             | 16.92                         | 24.00                           | 4.30     |  | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.12             | 16.94                         | 24.00                           | 4.30     |  | Pass      |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.16             | 15.76                         | 24.00                           | 4.30     |  | Pass      |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.16             | 16.88                         | 24.00                           | 4.30     |  | Pass      |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.16             | 16.78                         | 24.00                           | 4.30     |  | Pass      |

| IC Band I |           |     |     |             |                  |                               |                                |          |                           |           |
|-----------|-----------|-----|-----|-------------|------------------|-------------------------------|--------------------------------|----------|---------------------------|-----------|
| Mod.      | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | IC Conducted Power Limit (dBm) | DG (dBi) | IC EIRP Power Limit (dBm) | Pass/Fail |
| 11a       | 6Mbps     | 1   | 36  | 5180        | 0.12             | 15.88                         | 18.71                          | 4.30     | 23.01                     | Pass      |
| 11a       | 6Mbps     | 1   | 44  | 5220        | 0.12             | 16.92                         | 18.71                          | 4.30     | 23.01                     | Pass      |
| 11a       | 6Mbps     | 1   | 48  | 5240        | 0.12             | 16.94                         | 18.71                          | 4.30     | 23.01                     | Pass      |
| HT20      | MCS0      | 1   | 36  | 5180        | 0.16             | 15.76                         | 18.71                          | 4.30     | 23.01                     | Pass      |
| HT20      | MCS0      | 1   | 44  | 5220        | 0.16             | 16.88                         | 18.71                          | 4.30     | 23.01                     | Pass      |
| HT20      | MCS0      | 1   | 48  | 5240        | 0.16             | 16.78                         | 18.71                          | 4.30     | 23.01                     | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| FCC Band II |           |     |     |             |                  |                               |                                 |          |                        |           |
|-------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|------------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | EIRP Power Limit (dBm) | Pass/Fail |
| 11a         | 6M bps    | 1   | 52  | 5260        | 0.12             | 16.91                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| 11a         | 6M bps    | 1   | 60  | 5300        | 0.12             | 16.19                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| 11a         | 6M bps    | 1   | 64  | 5320        | 0.12             | 15.15                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 52  | 5260        | 0.16             | 16.74                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 60  | 5300        | 0.16             | 16.19                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 64  | 5320        | 0.16             | 15.10                         | 23.98                           | 4.30     | 26.99                  | Pass      |

| IC Band II |           |     |     |             |                  |                               |                                |          |                           |           |
|------------|-----------|-----|-----|-------------|------------------|-------------------------------|--------------------------------|----------|---------------------------|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | IC Conducted Power Limit (dBm) | DG (dBi) | IC EIRP Power Limit (dBm) | Pass/Fail |
| 11a        | 6M bps    | 1   | 52  | 5260        | 0.12             | 16.91                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| 11a        | 6M bps    | 1   | 60  | 5300        | 0.12             | 16.19                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| 11a        | 6M bps    | 1   | 64  | 5320        | 0.12             | 15.15                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20       | MCS 0     | 1   | 52  | 5260        | 0.16             | 16.74                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20       | MCS 0     | 1   | 60  | 5300        | 0.16             | 16.19                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20       | MCS 0     | 1   | 64  | 5320        | 0.16             | 15.10                         | 22.69                          | 4.30     | 26.99                     | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| FCC Band III |           |     |     |             |                  |                               |                                 |          |                        |           |
|--------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|------------------------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | EIRP Power Limit (dBm) | Pass/Fail |
| 11a          | 6M bps    | 1   | 100 | 5500        | 0.12             | 15.97                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 116 | 5580        | 0.12             | 16.38                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 140 | 5700        | 0.12             | 14.63                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 100 | 5500        | 0.16             | 15.86                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 116 | 5580        | 0.16             | 16.26                         | 23.98                           | 4.30     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 140 | 5700        | 0.16             | 14.54                         | 23.98                           | 4.30     | 26.99                  | Pass      |

| IC Band III |           |     |     |             |                  |                               |                                |          |                           |           |
|-------------|-----------|-----|-----|-------------|------------------|-------------------------------|--------------------------------|----------|---------------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | IC Conducted Power Limit (dBm) | DG (dBi) | IC EIRP Power Limit (dBm) | Pass/Fail |
| 11a         | 6Mbps     | 1   | 100 | 5500        | 0.12             | 15.97                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| 11a         | 6Mbps     | 1   | 116 | 5580        | 0.12             | 16.38                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| 11a         | 6Mbps     | 1   | 140 | 5700        | 0.12             | 14.63                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20        | MCS0      | 1   | 100 | 5500        | 0.16             | 15.86                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20        | MCS0      | 1   | 116 | 5580        | 0.16             | 16.26                         | 22.69                          | 4.30     | 26.99                     | Pass      |
| HT20        | MCS0      | 1   | 140 | 5700        | 0.16             | 14.54                         | 22.69                          | 4.30     | 26.99                     | Pass      |



## Appendix B. Radiated Spurious Emission

|                 |                       |                     |         |
|-----------------|-----------------------|---------------------|---------|
| Test Engineer : | Jesse Wang and Ken Wu | Temperature :       | 21~24°C |
|                 |                       | Relative Humidity : | 50~54%  |

### Band 1 - 5150~5250MHz

#### WIFI 802.11a (Band Edge @ 3m)

| WIFI<br>Ant.<br>2           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 36<br>5180MHz |      | 5148.2               | 59.74               | -14.26                  | 74                          | 50.06                     | 33.69                         | 11.21                   | 35.22                      | 331                  | 190                     | P                       | H               |
|                             |      | 5150                 | 52.19               | -1.81                   | 54                          | 42.51                     | 33.69                         | 11.21                   | 35.22                      | 331                  | 190                     | A                       | H               |
|                             | *    | 5180                 | 104.85              | -                       | -                           | 95.08                     | 33.78                         | 11.21                   | 35.22                      | 331                  | 190                     | P                       | H               |
|                             | *    | 5180                 | 96.75               | -                       | -                           | 86.98                     | 33.78                         | 11.21                   | 35.22                      | 331                  | 190                     | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |      | 5147.16              | 62.53               | -11.47                  | 74                          | 52.85                     | 33.69                         | 11.21                   | 35.22                      | 276                  | 348                     | P                       | V               |
|                             |      | 5150                 | 52.94               | -1.06                   | 54                          | 43.26                     | 33.69                         | 11.21                   | 35.22                      | 276                  | 348                     | A                       | V               |
|                             | *    | 5180                 | 105.87              | -                       | -                           | 96.1                      | 33.78                         | 11.21                   | 35.22                      | 276                  | 348                     | P                       | V               |
|                             | *    | 5180                 | 97.6                | -                       | -                           | 87.83                     | 33.78                         | 11.21                   | 35.22                      | 276                  | 348                     | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |      | 5150                 | 51.19               | -22.81                  | 74                          | 41.51                     | 33.69                         | 11.21                   | 35.22                      | 376                  | 325                     | P                       | H               |
|                             |      | 5149.76              | 42.1                | -11.9                   | 54                          | 32.42                     | 33.69                         | 11.21                   | 35.22                      | 376                  | 325                     | A                       | H               |
|                             | *    | 5220                 | 108.07              | -                       | -                           | 98.18                     | 33.86                         | 11.25                   | 35.22                      | 376                  | 325                     | P                       | H               |
|                             | *    | 5220                 | 100.25              | -                       | -                           | 90.36                     | 33.86                         | 11.25                   | 35.22                      | 376                  | 325                     | A                       | H               |
|                             |      | 5433.36              | 48.32               | -25.68                  | 74                          | 37.24                     | 34.43                         | 11.89                   | 35.24                      | 376                  | 325                     | P                       | H               |
|                             |      | 5367.12              | 40.61               | -13.39                  | 54                          | 29.83                     | 34.25                         | 11.76                   | 35.23                      | 376                  | 325                     | A                       | H               |
|                             |      | 5150                 | 53.06               | -20.94                  | 74                          | 43.38                     | 33.69                         | 11.21                   | 35.22                      | 245                  | 344                     | P                       | V               |
|                             |      | 5150                 | 43.88               | -10.12                  | 54                          | 34.2                      | 33.69                         | 11.21                   | 35.22                      | 245                  | 344                     | A                       | V               |
|                             | *    | 5220                 | 107.31              | -                       | -                           | 97.42                     | 33.86                         | 11.25                   | 35.22                      | 245                  | 344                     | P                       | V               |
|                             | *    | 5220                 | 99.05               | -                       | -                           | 89.16                     | 33.86                         | 11.25                   | 35.22                      | 245                  | 344                     | A                       | V               |
|                             |      | 5369.04              | 48.7                | -25.3                   | 74                          | 37.92                     | 34.25                         | 11.76                   | 35.23                      | 245                  | 344                     | P                       | V               |
|                             |      | 5456.4               | 40.41               | -13.59                  | 54                          | 29.29                     | 34.47                         | 11.89                   | 35.24                      | 245                  | 344                     | A                       | V               |



|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5123.5  | 49.65  | -24.35 | 74 | 40.04 | 33.65 | 11.18 | 35.22 | 373 | 323 | P | H |
|                                      |                                                                                             | 5129.22 | 40.66  | -13.34 | 54 | 31.05 | 33.65 | 11.18 | 35.22 | 373 | 323 | A | H |
|                                      | *                                                                                           | 5240    | 108.32 | -      | -  | 98.25 | 33.91 | 11.38 | 35.22 | 373 | 323 | P | H |
|                                      | *                                                                                           | 5240    | 100.48 | -      | -  | 90.41 | 33.91 | 11.38 | 35.22 | 373 | 323 | A | H |
|                                      |                                                                                             | 5355.36 | 49.48  | -24.52 | 74 | 38.74 | 34.21 | 11.76 | 35.23 | 373 | 323 | P | H |
|                                      |                                                                                             | 5351.28 | 40.86  | -13.14 | 54 | 30.12 | 34.21 | 11.76 | 35.23 | 373 | 323 | A | H |
|                                      |                                                                                             | 5065.26 | 49.96  | -24.04 | 74 | 40.56 | 33.47 | 11.14 | 35.21 | 229 | 345 | P | V |
|                                      |                                                                                             | 5147.68 | 40.94  | -13.06 | 54 | 31.26 | 33.69 | 11.21 | 35.22 | 229 | 345 | A | V |
|                                      | *                                                                                           | 5240    | 107.65 | -      | -  | 97.58 | 33.91 | 11.38 | 35.22 | 229 | 345 | P | V |
|                                      | *                                                                                           | 5240    | 99.35  | -      | -  | 89.28 | 33.91 | 11.38 | 35.22 | 229 | 345 | A | V |
|                                      |                                                                                             | 5443.44 | 49.37  | -24.63 | 74 | 38.29 | 34.43 | 11.89 | 35.24 | 229 | 345 | P | V |
|                                      |                                                                                             | 5353.68 | 40.38  | -13.62 | 54 | 29.64 | 34.21 | 11.76 | 35.23 | 229 | 345 | A | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>2           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 10360                | 50.59               | -17.61                  | 68.2                        | 53.54                     | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15540                | 48.45               | -25.55                  | 74                          | 44.95                     | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10360                | 58.31               | -9.89                   | 68.2                        | 61.26                     | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15540                | 43.6                | -30.4                   | 74                          | 40.1                      | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 51.72               | -16.48                  | 68.2                        | 54.55                     | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15660                | 51.63               | -22.37                  | 74                          | 47.75                     | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10440                | 62.47               | -5.73                   | 68.2                        | 65.3                      | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15660                | 47.18               | -26.82                  | 74                          | 43.3                      | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 51.36               | -16.84                  | 68.2                        | 54.11                     | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15720                | 50.71               | -23.29                  | 74                          | 46.6                      | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10480                | 59.54               | -8.66                   | 68.2                        | 62.29                     | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15720                | 45.4                | -28.6                   | 74                          | 41.29                     | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5149.5               | 59.24               | -14.76                  | 74                          | 49.56                     | 33.69                         | 11.21                   | 35.22                      | 331                  | 190                     | P                       | H               |
|                                     |      | 5150                 | 52.44               | -1.56                   | 54                          | 42.76                     | 33.69                         | 11.21                   | 35.22                      | 331                  | 190                     | A                       | H               |
|                                     | *    | 5180                 | 104.37              | -                       | -                           | 94.6                      | 33.78                         | 11.21                   | 35.22                      | 331                  | 190                     | P                       | H               |
|                                     | *    | 5180                 | 96.44               | -                       | -                           | 86.67                     | 33.78                         | 11.21                   | 35.22                      | 331                  | 190                     | A                       | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |      | 5150                 | 59.94               | -14.06                  | 74                          | 50.26                     | 33.69                         | 11.21                   | 35.22                      | 276                  | 348                     | P                       | V               |
|                                     |      | 5150                 | 52.56               | -1.44                   | 54                          | 42.88                     | 33.69                         | 11.21                   | 35.22                      | 276                  | 348                     | A                       | V               |
|                                     | *    | 5180                 | 105.15              | -                       | -                           | 95.38                     | 33.78                         | 11.21                   | 35.22                      | 276                  | 348                     | P                       | V               |
|                                     | *    | 5180                 | 97.36               | -                       | -                           | 87.59                     | 33.78                         | 11.21                   | 35.22                      | 276                  | 348                     | A                       | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5149.24              | 49.67               | -24.33                  | 74                          | 39.99                     | 33.69                         | 11.21                   | 35.22                      | 376                  | 325                     | P                       | H               |
|                                     |      | 5150                 | 42.04               | -11.96                  | 54                          | 32.36                     | 33.69                         | 11.21                   | 35.22                      | 376                  | 325                     | A                       | H               |
|                                     | *    | 5220                 | 107.7               | -                       | -                           | 97.81                     | 33.86                         | 11.25                   | 35.22                      | 376                  | 325                     | P                       | H               |
|                                     | *    | 5220                 | 99.98               | -                       | -                           | 90.09                     | 33.86                         | 11.25                   | 35.22                      | 376                  | 325                     | A                       | H               |
|                                     |      | 5377.2               | 48.67               | -25.33                  | 74                          | 37.89                     | 34.25                         | 11.76                   | 35.23                      | 376                  | 325                     | P                       | H               |
|                                     |      | 5364.72              | 40.56               | -13.44                  | 54                          | 29.78                     | 34.25                         | 11.76                   | 35.23                      | 376                  | 325                     | A                       | H               |
|                                     |      | 5145.34              | 51.85               | -22.15                  | 74                          | 42.17                     | 33.69                         | 11.21                   | 35.22                      | 245                  | 344                     | P                       | V               |
|                                     |      | 5149.76              | 44.02               | -9.98                   | 54                          | 34.34                     | 33.69                         | 11.21                   | 35.22                      | 245                  | 344                     | A                       | V               |
|                                     | *    | 5220                 | 106.48              | -                       | -                           | 96.59                     | 33.86                         | 11.25                   | 35.22                      | 245                  | 344                     | P                       | V               |
|                                     | *    | 5220                 | 98.76               | -                       | -                           | 88.87                     | 33.86                         | 11.25                   | 35.22                      | 245                  | 344                     | A                       | V               |
|                                     |      | 5361.36              | 48.8                | -25.2                   | 74                          | 38.02                     | 34.25                         | 11.76                   | 35.23                      | 245                  | 344                     | P                       | V               |
|                                     |      | 5365.2               | 40.32               | -13.68                  | 54                          | 29.54                     | 34.25                         | 11.76                   | 35.23                      | 245                  | 344                     | A                       | V               |



|                                               |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5068.12 | 49.73  | -24.27 | 74 | 40.33 | 33.47 | 11.14 | 35.21 | 373 | 323 | P | H |
|                                               |                                                                                             | 5135.72 | 40.72  | -13.28 | 54 | 31.11 | 33.65 | 11.18 | 35.22 | 373 | 323 | A | H |
|                                               | *                                                                                           | 5240    | 108.22 | -      | -  | 98.15 | 33.91 | 11.38 | 35.22 | 373 | 323 | P | H |
|                                               | *                                                                                           | 5240    | 100.28 | -      | -  | 90.21 | 33.91 | 11.38 | 35.22 | 373 | 323 | A | H |
|                                               |                                                                                             | 5402.64 | 49.18  | -24.82 | 74 | 38.18 | 34.34 | 11.89 | 35.23 | 373 | 323 | P | H |
|                                               |                                                                                             | 5351.76 | 41.14  | -12.86 | 54 | 30.4  | 34.21 | 11.76 | 35.23 | 373 | 323 | A | H |
|                                               |                                                                                             | 5149.76 | 50.02  | -23.98 | 74 | 40.34 | 33.69 | 11.21 | 35.22 | 229 | 345 | P | V |
|                                               |                                                                                             | 5148.98 | 40.98  | -13.02 | 54 | 31.3  | 33.69 | 11.21 | 35.22 | 229 | 345 | A | V |
|                                               | *                                                                                           | 5240    | 107.69 | -      | -  | 97.62 | 33.91 | 11.38 | 35.22 | 229 | 345 | P | V |
|                                               | *                                                                                           | 5240    | 99.31  | -      | -  | 89.24 | 33.91 | 11.38 | 35.22 | 229 | 345 | A | V |
|                                               |                                                                                             | 5405.76 | 49.83  | -24.17 | 74 | 38.83 | 34.34 | 11.89 | 35.23 | 229 | 345 | P | V |
|                                               |                                                                                             | 5351.28 | 40.5   | -13.5  | 54 | 29.76 | 34.21 | 11.76 | 35.23 | 229 | 345 | A | V |
| <b>Remark</b>                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |                                                                                             | 10360                | 48.31               | -19.89                  | 68.2                        | 51.26                     | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15540                | 49.06               | -24.94                  | 74                          | 45.56                     | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10360                | 59.2                | -9                      | 68.2                        | 62.15                     | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15540                | 43.56               | -30.44                  | 74                          | 40.06                     | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 50.23               | -17.97                  | 68.2                        | 53.06                     | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15660                | 53.24               | -20.76                  | 74                          | 49.36                     | 41.31                         | 19.68                   | 57.11                      | 100                  | 314                     | P                       | H               |
|                                     |                                                                                             | 15660                | 44.1                | -9.9                    | 54                          | 40.22                     | 41.31                         | 19.68                   | 57.11                      | 100                  | 314                     | A                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10440                | 59.62               | -8.58                   | 68.2                        | 62.45                     | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15600                | 44                  | -30                     | 74                          | 40.27                     | 41.21                         | 19.66                   | 57.14                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 50.05               | -18.15                  | 68.2                        | 52.8                      | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15720                | 50.21               | -23.79                  | 74                          | 46.1                      | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10480                | 58.71               | -9.49                   | 68.2                        | 61.46                     | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15720                | 44.82               | -29.18                  | 74                          | 40.71                     | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI Ant.                   | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 2                           |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5124.54   | 49.83      | -24.17     | 74         | 40.22      | 33.65          | 11.18      | 35.22         | 320     | 190       | P         | H       |
|                             |      | 5149.5    | 40.39      | -13.61     | 54         | 30.71      | 33.69          | 11.21      | 35.22         | 320     | 190       | A         | H       |
|                             | *    | 5260      | 106.95     | -          | -          | 96.81      | 33.99          | 11.38      | 35.23         | 320     | 190       | P         | H       |
|                             | *    | 5260      | 99.12      | -          | -          | 88.98      | 33.99          | 11.38      | 35.23         | 320     | 190       | A         | H       |
|                             |      | 5447.76   | 49.86      | -24.14     | 74         | 38.74      | 34.47          | 11.89      | 35.24         | 320     | 190       | P         | H       |
|                             |      | 5410.8    | 40.38      | -13.62     | 54         | 29.38      | 34.34          | 11.89      | 35.23         | 320     | 190       | A         | H       |
|                             |      | 5070.46   | 48.28      | -25.72     | 74         | 38.88      | 33.47          | 11.14      | 35.21         | 296     | 347       | P         | V       |
|                             |      | 5149.5    | 40.65      | -13.35     | 54         | 30.97      | 33.69          | 11.21      | 35.22         | 296     | 347       | A         | V       |
|                             | *    | 5260      | 108.15     | -          | -          | 98.01      | 33.99          | 11.38      | 35.23         | 296     | 347       | P         | V       |
|                             | *    | 5260      | 99.75      | -          | -          | 89.61      | 33.99          | 11.38      | 35.23         | 296     | 347       | A         | V       |
|                             |      | 5371.92   | 49.31      | -24.69     | 74         | 38.53      | 34.25          | 11.76      | 35.23         | 296     | 347       | P         | V       |
|                             |      | 5406      | 40.65      | -13.35     | 54         | 29.65      | 34.34          | 11.89      | 35.23         | 296     | 347       | A         | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5010.4    | 49.59      | -24.41     | 74         | 40.39      | 33.34          | 11.07      | 35.21         | 352     | 189       | P         | H       |
|                             |      | 5108.94   | 40.07      | -13.93     | 54         | 30.51      | 33.6           | 11.18      | 35.22         | 352     | 189       | A         | H       |
|                             | *    | 5300      | 106.94     | -          | -          | 96.58      | 34.08          | 11.51      | 35.23         | 352     | 189       | P         | H       |
|                             | *    | 5300      | 99.05      | -          | -          | 88.69      | 34.08          | 11.51      | 35.23         | 352     | 189       | A         | H       |
|                             |      | 5353.68   | 51.38      | -22.62     | 74         | 40.64      | 34.21          | 11.76      | 35.23         | 352     | 189       | P         | H       |
|                             |      | 5350.08   | 43.91      | -10.09     | 54         | 33.17      | 34.21          | 11.76      | 35.23         | 352     | 189       | A         | H       |
|                             |      | 5045.24   | 48.69      | -25.31     | 74         | 39.36      | 33.43          | 11.11      | 35.21         | 237     | 328       | P         | V       |
|                             |      | 5122.72   | 40.45      | -13.55     | 54         | 30.84      | 33.65          | 11.18      | 35.22         | 237     | 328       | A         | V       |
|                             | *    | 5300      | 108.62     | -          | -          | 98.26      | 34.08          | 11.51      | 35.23         | 237     | 328       | P         | V       |
|                             | *    | 5300      | 100.46     | -          | -          | 90.1       | 34.08          | 11.51      | 35.23         | 237     | 328       | A         | V       |
|                             |      | 5350.08   | 61.95      | -12.05     | 74         | 51.21      | 34.21          | 11.76      | 35.23         | 237     | 328       | P         | V       |
|                             |      | 5350.08   | 50.25      | -3.75      | 54         | 39.51      | 34.21          | 11.76      | 35.23         | 237     | 328       | A         | V       |



|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *                                                                                           | 5320    | 105.33 | -      | -  | 94.81 | 34.12 | 11.63 | 35.23 | 348 | 193 | P | H |
|                                      | *                                                                                           | 5320    | 96.9   | -      | -  | 86.38 | 34.12 | 11.63 | 35.23 | 348 | 193 | A | H |
|                                      |                                                                                             | 5352.32 | 56.87  | -17.13 | 74 | 46.13 | 34.21 | 11.76 | 35.23 | 348 | 193 | P | H |
|                                      |                                                                                             | 5350.24 | 48.97  | -5.03  | 54 | 38.23 | 34.21 | 11.76 | 35.23 | 348 | 193 | A | H |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                      | *                                                                                           | 5320    | 106.83 | -      | -  | 96.31 | 34.12 | 11.63 | 35.23 | 227 | 345 | P | V |
|                                      | *                                                                                           | 5320    | 99.13  | -      | -  | 88.61 | 34.12 | 11.63 | 35.23 | 227 | 345 | A | V |
|                                      |                                                                                             | 5350.56 | 60.43  | -13.57 | 74 | 49.69 | 34.21 | 11.76 | 35.23 | 227 | 345 | P | V |
|                                      |                                                                                             | 5350.08 | 51.45  | -2.55  | 54 | 40.71 | 34.21 | 11.76 | 35.23 | 227 | 345 | A | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>2           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 52<br>5260MHz |                                                                                             | 10520                | 49.58               | -18.62                  | 68.2                        | 52.31                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 52.06               | -21.94                  | 74                          | 47.79                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 59.58               | -8.62                   | 68.2                        | 62.31                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 46.3                | -27.7                   | 74                          | 42.03                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 49.29               | -24.71                  | 74                          | 52.02                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15900                | 50.75               | -23.25                  | 74                          | 46.1                      | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10600                | 60.42               | -13.58                  | 74                          | 63.15                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 335                     | P                       | V               |
|                             |                                                                                             | 10600                | 50.21               | -3.79                   | 54                          | 52.94                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 335                     | A                       | V               |
|                             |                                                                                             | 15900                | 47.01               | -26.99                  | 74                          | 42.36                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 46.82               | -27.18                  | 74                          | 49.55                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 53.79               | -20.21                  | 74                          | 48.91                     | 41.93                         | 19.87                   | 56.92                      | 100                  | 299                     | P                       | H               |
|                             |                                                                                             | 15960                | 45.48               | -8.52                   | 54                          | 40.6                      | 41.93                         | 19.87                   | 56.92                      | 100                  | 299                     | A                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 57.96               | -16.04                  | 74                          | 60.69                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 336                     | P                       | V               |
|                             |                                                                                             | 10640                | 48.42               | -5.58                   | 54                          | 51.15                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 336                     | A                       | V               |
|                             |                                                                                             | 15960                | 47.82               | -26.18                  | 74                          | 42.94                     | 41.93                         | 19.87                   | 56.92                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5067.6               | 48.77               | -25.23                  | 74                          | 39.37                     | 33.47                         | 11.14                   | 35.21                      | 320                  | 190                     | P                       | H               |
|                                     |      | 5148.2               | 40.54               | -13.46                  | 54                          | 30.86                     | 33.69                         | 11.21                   | 35.22                      | 320                  | 190                     | A                       | H               |
|                                     | *    | 5260                 | 106.81              | -                       | -                           | 96.67                     | 33.99                         | 11.38                   | 35.23                      | 320                  | 190                     | P                       | H               |
|                                     | *    | 5260                 | 98.72               | -                       | -                           | 88.58                     | 33.99                         | 11.38                   | 35.23                      | 320                  | 190                     | A                       | H               |
|                                     |      | 5351.04              | 48.89               | -25.11                  | 74                          | 38.15                     | 34.21                         | 11.76                   | 35.23                      | 320                  | 190                     | P                       | H               |
|                                     |      | 5350.32              | 40.19               | -13.81                  | 54                          | 29.45                     | 34.21                         | 11.76                   | 35.23                      | 320                  | 190                     | A                       | H               |
|                                     |      | 5093.6               | 48.71               | -25.29                  | 74                          | 39.23                     | 33.56                         | 11.14                   | 35.22                      | 296                  | 347                     | P                       | V               |
|                                     |      | 5149.5               | 40.43               | -13.57                  | 54                          | 30.75                     | 33.69                         | 11.21                   | 35.22                      | 296                  | 347                     | A                       | V               |
|                                     | *    | 5260                 | 107.85              | -                       | -                           | 97.71                     | 33.99                         | 11.38                   | 35.23                      | 296                  | 347                     | P                       | V               |
|                                     | *    | 5260                 | 99.49               | -                       | -                           | 89.35                     | 33.99                         | 11.38                   | 35.23                      | 296                  | 347                     | A                       | V               |
|                                     |      | 5408.88              | 49.45               | -24.55                  | 74                          | 38.45                     | 34.34                         | 11.89                   | 35.23                      | 296                  | 347                     | P                       | V               |
|                                     |      | 5411.28              | 40.53               | -13.47                  | 54                          | 29.53                     | 34.34                         | 11.89                   | 35.23                      | 296                  | 347                     | A                       | V               |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5088.4               | 48.29               | -25.71                  | 74                          | 38.85                     | 33.52                         | 11.14                   | 35.22                      | 352                  | 189                     | P                       | H               |
|                                     |      | 5127.66              | 40.05               | -13.95                  | 54                          | 30.44                     | 33.65                         | 11.18                   | 35.22                      | 352                  | 189                     | A                       | H               |
|                                     | *    | 5300                 | 106.74              | -                       | -                           | 96.38                     | 34.08                         | 11.51                   | 35.23                      | 352                  | 189                     | P                       | H               |
|                                     | *    | 5300                 | 98.56               | -                       | -                           | 88.2                      | 34.08                         | 11.51                   | 35.23                      | 352                  | 189                     | A                       | H               |
|                                     |      | 5350.32              | 54.46               | -19.54                  | 74                          | 43.72                     | 34.21                         | 11.76                   | 35.23                      | 352                  | 189                     | P                       | H               |
|                                     |      | 5350.56              | 43.37               | -10.63                  | 54                          | 32.63                     | 34.21                         | 11.76                   | 35.23                      | 352                  | 189                     | A                       | H               |
|                                     |      | 5014.56              | 48.71               | -25.29                  | 74                          | 39.51                     | 33.34                         | 11.07                   | 35.21                      | 237                  | 328                     | P                       | V               |
|                                     |      | 5121.42              | 40.15               | -13.85                  | 54                          | 30.59                     | 33.6                          | 11.18                   | 35.22                      | 237                  | 328                     | A                       | V               |
|                                     | *    | 5300                 | 108.6               | -                       | -                           | 98.24                     | 34.08                         | 11.51                   | 35.23                      | 237                  | 328                     | P                       | V               |
|                                     | *    | 5300                 | 100.25              | -                       | -                           | 89.89                     | 34.08                         | 11.51                   | 35.23                      | 237                  | 328                     | A                       | V               |
|                                     |      | 5362.08              | 58.82               | -15.18                  | 74                          | 48.04                     | 34.25                         | 11.76                   | 35.23                      | 237                  | 328                     | P                       | V               |
|                                     |      | 5350.56              | 50.98               | -3.02                   | 54                          | 40.24                     | 34.21                         | 11.76                   | 35.23                      | 237                  | 328                     | A                       | V               |



|                                                                 |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 105.23 | -      | -  | 94.71 | 34.12 | 11.63 | 35.23 | 348 | 193 | P | H |
|                                                                 | *                                                                                           | 5320    | 96.93  | -      | -  | 86.41 | 34.12 | 11.63 | 35.23 | 348 | 193 | A | H |
|                                                                 |                                                                                             | 5362.08 | 57.44  | -16.56 | 74 | 46.66 | 34.25 | 11.76 | 35.23 | 348 | 193 | P | H |
|                                                                 |                                                                                             | 5350.4  | 49.09  | -4.91  | 54 | 38.35 | 34.21 | 11.76 | 35.23 | 348 | 193 | A | H |
|                                                                 |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                                                 |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                                                 | *                                                                                           | 5320    | 106.71 | -      | -  | 96.19 | 34.12 | 11.63 | 35.23 | 227 | 345 | P | V |
|                                                                 | *                                                                                           | 5320    | 98.73  | -      | -  | 88.21 | 34.12 | 11.63 | 35.23 | 227 | 345 | A | V |
|                                                                 |                                                                                             | 5354.08 | 61.33  | -12.67 | 74 | 50.59 | 34.21 | 11.76 | 35.23 | 227 | 345 | P | V |
|                                                                 |                                                                                             | 5350.72 | 52.05  | -1.95  | 54 | 41.31 | 34.21 | 11.76 | 35.23 | 227 | 345 | A | V |
|                                                                 |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                                                 |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                                                   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 49.13               | -19.07                  | 68.2                        | 51.86                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15780                | 52.89               | -21.11                  | 74                          | 48.62                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10520                | 59.66               | -8.54                   | 68.2                        | 62.39                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15780                | 46.04               | -27.96                  | 74                          | 41.77                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 47.94               | -26.06                  | 74                          | 50.67                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15900                | 55.71               | -18.29                  | 74                          | 51.06                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 325                     | P                       | H               |
|                                     |                                                                                             | 15900                | 45.38               | -8.62                   | 54                          | 40.73                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 325                     | A                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10600                | 59.15               | -14.85                  | 74                          | 61.88                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 356                     | P                       | V               |
|                                     |                                                                                             | 10600                | 50.07               | -3.93                   | 54                          | 52.8                      | 39.06                         | 17.17                   | 58.96                      | 100                  | 356                     | A                       | V               |
|                                     |                                                                                             | 15900                | 48.51               | -25.49                  | 74                          | 43.86                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 46.39               | -27.61                  | 74                          | 49.12                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15960                | 56.78               | -17.22                  | 74                          | 51.9                      | 41.93                         | 19.87                   | 56.92                      | 100                  | 325                     | P                       | H               |
|                                     |                                                                                             | 15960                | 46.06               | -7.94                   | 54                          | 41.18                     | 41.93                         | 19.87                   | 56.92                      | 100                  | 325                     | A                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10640                | 59.73               | -14.27                  | 74                          | 62.46                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 336                     | P                       | V               |
|                                     |                                                                                             | 10640                | 48.73               | -5.27                   | 54                          | 51.46                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 336                     | A                       | V               |
|                                     |                                                                                             | 15960                | 48.41               | -25.59                  | 74                          | 43.53                     | 41.93                         | 19.87                   | 56.92                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

## Band 3 - 5470~5725MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI Ant.                    | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|------------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|-------|
| 2                            |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11a<br>CH 100<br>5500MHz |      | 5456.72   | 56.57      | -17.43     | 74         | 45.45      | 34.47          | 11.89      | 35.24         | 356     | 332       | P         | H     |
|                              |      | 5469.2    | 62.79      | -5.41      | 68.2       | 51.63      | 34.51          | 11.89      | 35.24         | 356     | 332       | P         | H     |
|                              |      | 5459.6    | 49.81      | -4.19      | 54         | 38.69      | 34.47          | 11.89      | 35.24         | 356     | 332       | A         | H     |
|                              | *    | 5500      | 108.14     | -          | -          | 96.89      | 34.6           | 11.89      | 35.24         | 356     | 332       | P         | H     |
|                              | *    | 5500      | 100.65     | -          | -          | 89.4       | 34.6           | 11.89      | 35.24         | 356     | 332       | A         | H     |
|                              |      |           |            |            |            |            |                |            |               |         |           |           | H     |
|                              |      | 5448.08   | 62.49      | -11.51     | 74         | 51.37      | 34.47          | 11.89      | 35.24         | 232     | 324       | P         | V     |
|                              |      | 5465.68   | 63.13      | -5.07      | 68.2       | 51.97      | 34.51          | 11.89      | 35.24         | 232     | 324       | P         | V     |
|                              |      | 5459.28   | 52.09      | -1.91      | 54         | 40.97      | 34.47          | 11.89      | 35.24         | 232     | 324       | A         | V     |
|                              | *    | 5500      | 108.01     | -          | -          | 96.76      | 34.6           | 11.89      | 35.24         | 232     | 324       | P         | V     |
|                              | *    | 5500      | 100.4      | -          | -          | 89.15      | 34.6           | 11.89      | 35.24         | 232     | 324       | A         | V     |
|                              |      |           |            |            |            |            |                |            |               |         |           |           | V     |
| 802.11a<br>CH 116<br>5580MHz |      | 5429.92   | 49.14      | -24.86     | 74         | 38.06      | 34.43          | 11.89      | 35.24         | 380     | 322       | P         | H     |
|                              |      | 5469.04   | 48.32      | -19.88     | 68.2       | 37.16      | 34.51          | 11.89      | 35.24         | 380     | 322       | P         | H     |
|                              |      | 5456.56   | 40.6       | -13.4      | 54         | 29.48      | 34.47          | 11.89      | 35.24         | 380     | 322       | A         | H     |
|                              | *    | 5580      | 108.93     | -          | -          | 97.7       | 34.6           | 11.89      | 35.26         | 380     | 322       | P         | H     |
|                              | *    | 5580      | 101.13     | -          | -          | 89.9       | 34.6           | 11.89      | 35.26         | 380     | 322       | A         | H     |
|                              |      | 5725      | 50.45      | -17.75     | 68.2       | 39.07      | 34.6           | 12.06      | 35.28         | 380     | 322       | P         | H     |
|                              |      | 5459.2    | 48.52      | -25.48     | 74         | 37.4       | 34.47          | 11.89      | 35.24         | 236     | 324       | P         | V     |
|                              |      | 5465.2    | 47.09      | -21.11     | 68.2       | 35.93      | 34.51          | 11.89      | 35.24         | 236     | 324       | P         | V     |
|                              |      | 5455.36   | 40.67      | -13.33     | 54         | 29.55      | 34.47          | 11.89      | 35.24         | 236     | 324       | A         | V     |
|                              | *    | 5580      | 109.62     | -          | -          | 98.39      | 34.6           | 11.89      | 35.26         | 236     | 324       | P         | V     |
|                              | *    | 5580      | 101.3      | -          | -          | 90.07      | 34.6           | 11.89      | 35.26         | 236     | 324       | A         | V     |
|                              |      | 5757.475  | 49.17      | -19.03     | 68.2       | 37.75      | 34.6           | 12.11      | 35.29         | 236     | 324       | P         | V     |



|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   |   |
|---------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|-------|------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 108.87 | -     | -    | 97.55 | 34.6 | 12    | 35.28 | 363 | 322 | P | H |
|                                       | *                                                                                           | 5700    | 100.46 | -     | -    | 89.14 | 34.6 | 12    | 35.28 | 363 | 322 | A | H |
|                                       |                                                                                             | 5725    | 66.32  | -1.88 | 68.2 | 54.94 | 34.6 | 12.06 | 35.28 | 363 | 322 | P | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       | *                                                                                           | 5700    | 107.51 | -     | -    | 96.19 | 34.6 | 12    | 35.28 | 234 | 321 | P | V |
|                                       | *                                                                                           | 5700    | 99.99  | -     | -    | 88.67 | 34.6 | 12    | 35.28 | 234 | 321 | A | V |
|                                       |                                                                                             | 5725.24 | 66.73  | -1.47 | 68.2 | 55.36 | 34.6 | 12.06 | 35.29 | 234 | 321 | P | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |      |       |       |     |     |   |   |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>2            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 100<br>5500MHz |                                                                                             | 11000                | 48.35               | -25.65                  | 74                          | 51.08                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 53.6                | -14.6                   | 68.2                        | 46.47                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11000                | 55.37               | -18.63                  | 74                          | 58.1                      | 38.5                          | 17.17                   | 58.4                       | 100                  | 342                     | P                       | V               |
|                              |                                                                                             | 11000                | 48.12               | -5.88                   | 54                          | 50.85                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 342                     | A                       | V               |
|                              |                                                                                             | 16500                | 46.56               | -21.64                  | 68.2                        | 39.43                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 50.06               | -23.94                  | 74                          | 52.16                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 56.68               | -11.52                  | 68.2                        | 49.35                     | 42.9                          | 20.39                   | 55.96                      | 102                  | 77                      | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11160                | 59.01               | -14.99                  | 74                          | 61.11                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 350                     | P                       | V               |
|                              |                                                                                             | 11160                | 49.25               | -4.75                   | 54                          | 51.35                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 350                     | A                       | V               |
|                              |                                                                                             | 16740                | 48.48               | -19.72                  | 68.2                        | 41.15                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 47.87               | -26.13                  | 74                          | 49.09                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 62.07               | -6.13                   | 68.2                        | 54.62                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11400                | 55.39               | -18.61                  | 74                          | 56.61                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 328                     | P                       | V               |
|                              |                                                                                             | 11400                | 46.17               | -7.83                   | 54                          | 47.39                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 328                     | A                       | V               |
|                              |                                                                                             | 17100                | 52.76               | -15.44                  | 68.2                        | 45.31                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>2                              | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT20<br/>CH 100<br/>5500MHz</b> |      | 5448.72              | 57.91               | -16.09                  | 74                          | 46.79                     | 34.47                         | 11.89                   | 35.24                      | 356                  | 332                     | P                       | H               |
|                                                |      | 5468.4               | 65.65               | -2.55                   | 68.2                        | 54.49                     | 34.51                         | 11.89                   | 35.24                      | 356                  | 332                     | P                       | H               |
|                                                |      | 5459.92              | 50.22               | -3.78                   | 54                          | 39.1                      | 34.47                         | 11.89                   | 35.24                      | 356                  | 332                     | A                       | H               |
|                                                | *    | 5500                 | 108.15              | -                       | -                           | 96.9                      | 34.6                          | 11.89                   | 35.24                      | 356                  | 332                     | P                       | H               |
|                                                | *    | 5500                 | 100.15              | -                       | -                           | 88.9                      | 34.6                          | 11.89                   | 35.24                      | 356                  | 332                     | A                       | H               |
|                                                |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                |      | 5454                 | 59.91               | -14.09                  | 74                          | 48.79                     | 34.47                         | 11.89                   | 35.24                      | 232                  | 324                     | P                       | V               |
|                                                |      | 5467.76              | 61.52               | -6.68                   | 68.2                        | 50.36                     | 34.51                         | 11.89                   | 35.24                      | 232                  | 324                     | P                       | V               |
|                                                |      | 5458.8               | 51.68               | -2.32                   | 54                          | 40.56                     | 34.47                         | 11.89                   | 35.24                      | 232                  | 324                     | A                       | V               |
|                                                | *    | 5500                 | 107.85              | -                       | -                           | 96.6                      | 34.6                          | 11.89                   | 35.24                      | 232                  | 324                     | P                       | V               |
|                                                | *    | 5500                 | 99.75               | -                       | -                           | 88.5                      | 34.6                          | 11.89                   | 35.24                      | 232                  | 324                     | A                       | V               |
|                                                |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>802.11n<br/>HT20<br/>CH 116<br/>5580MHz</b> |      | 5459.92              | 48.79               | -25.21                  | 74                          | 37.67                     | 34.47                         | 11.89                   | 35.24                      | 380                  | 322                     | P                       | H               |
|                                                |      | 5460                 | 48.79               | -19.41                  | 68.2                        | 37.67                     | 34.47                         | 11.89                   | 35.24                      | 380                  | 322                     | P                       | H               |
|                                                |      | 5458.24              | 40.8                | -13.2                   | 54                          | 29.68                     | 34.47                         | 11.89                   | 35.24                      | 380                  | 322                     | A                       | H               |
|                                                | *    | 5580                 | 108.82              | -                       | -                           | 97.59                     | 34.6                          | 11.89                   | 35.26                      | 380                  | 322                     | P                       | H               |
|                                                | *    | 5580                 | 100.75              | -                       | -                           | 89.52                     | 34.6                          | 11.89                   | 35.26                      | 380                  | 322                     | A                       | H               |
|                                                |      | 5740.15              | 50.18               | -18.02                  | 68.2                        | 38.76                     | 34.6                          | 12.11                   | 35.29                      | 380                  | 322                     | P                       | H               |
|                                                |      | 5449.6               | 49.24               | -24.76                  | 74                          | 38.12                     | 34.47                         | 11.89                   | 35.24                      | 236                  | 324                     | P                       | V               |
|                                                |      | 5460.16              | 49.03               | -19.17                  | 68.2                        | 37.91                     | 34.47                         | 11.89                   | 35.24                      | 236                  | 324                     | P                       | V               |
|                                                |      | 5458.96              | 40.76               | -13.24                  | 54                          | 29.64                     | 34.47                         | 11.89                   | 35.24                      | 236                  | 324                     | A                       | V               |
|                                                | *    | 5580                 | 108.83              | -                       | -                           | 97.6                      | 34.6                          | 11.89                   | 35.26                      | 236                  | 324                     | P                       | V               |
|                                                | *    | 5580                 | 101.11              | -                       | -                           | 89.88                     | 34.6                          | 11.89                   | 35.26                      | 236                  | 324                     | A                       | V               |
|                                                |      | 5759.05              | 49.38               | -18.82                  | 68.2                        | 37.96                     | 34.6                          | 12.11                   | 35.29                      | 236                  | 324                     | P                       | V               |



|                                                                  |                                                                                             |         |        |       |      |       |      |       |       |     |     |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|-------|------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 107.72 | -     | -    | 96.4  | 34.6 | 12    | 35.28 | 363 | 322 | P | H |
|                                                                  | *                                                                                           | 5700    | 99.94  | -     | -    | 88.62 | 34.6 | 12    | 35.28 | 363 | 322 | A | H |
|                                                                  |                                                                                             | 5726.76 | 67.02  | -1.18 | 68.2 | 55.65 | 34.6 | 12.06 | 35.29 | 363 | 322 | P | H |
|                                                                  |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                  |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                  |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                  | *                                                                                           | 5700    | 107.46 | -     | -    | 96.14 | 34.6 | 12    | 35.28 | 234 | 321 | P | V |
|                                                                  | *                                                                                           | 5700    | 99.63  | -     | -    | 88.31 | 34.6 | 12    | 35.28 | 234 | 321 | A | V |
|                                                                  |                                                                                             | 5725    | 67.2   | -1    | 68.2 | 55.82 | 34.6 | 12.06 | 35.28 | 234 | 321 | P | V |
|                                                                  |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
|                                                                  |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
|                                                                  |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
| <b>Remark</b>                                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |      |       |       |     |     |   |   |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |                                                                                             | 11000                | 47.79               | -26.21                  | 74                          | 50.52                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16500                | 58.17               | -10.03                  | 68.2                        | 51.04                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11000                | 57.97               | -16.03                  | 74                          | 60.7                      | 38.5                          | 17.17                   | 58.4                       | 100                  | 342                     | P                       | V               |
|                                      |                                                                                             | 11000                | 48.18               | -5.82                   | 54                          | 50.91                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 342                     | A                       | V               |
|                                      |                                                                                             | 16500                | 48.44               | -19.76                  | 68.2                        | 41.31                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 48.21               | -25.79                  | 74                          | 50.31                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16740                | 57.74               | -10.46                  | 68.2                        | 50.41                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11160                | 62.54               | -11.46                  | 74                          | 64.64                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 334                     | P                       | V               |
|                                      |                                                                                             | 11160                | 50.34               | -3.66                   | 54                          | 52.44                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 334                     | A                       | V               |
|                                      |                                                                                             | 16740                | 47.99               | -20.21                  | 68.2                        | 40.66                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 49.14               | -24.86                  | 74                          | 50.36                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17100                | 65.2                | -3                      | 68.2                        | 57.75                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11400                | 59.32               | -14.68                  | 74                          | 60.54                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 25                      | P                       | V               |
|                                      |                                                                                             | 11400                | 46.84               | -7.16                   | 54                          | 48.06                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 25                      | A                       | V               |
|                                      |                                                                                             | 17100                | 52.19               | -16.01                  | 68.2                        | 44.74                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 3 - 5470~5725MHz

## Emission below 1GHz

## WIFI 802.11n HT20 (LF @ 3m)

| WIFI Ant.             | Note                                                                       | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------|----------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 2                     |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11n<br>HT20<br>LF |                                                                            | 96.69     | 36.33      | -7.17      | 43.5       | 50.14      | 16.01          | 1.28       | 31.1          | -       | -         | P         | H       |
|                       |                                                                            | 151.5     | 39.12      | -4.38      | 43.5       | 50.83      | 17.63          | 1.78       | 31.12         | -       | -         | P         | H       |
|                       |                                                                            | 210.9     | 39.4       | -4.1       | 43.5       | 52.32      | 16.3           | 1.87       | 31.09         | 100     | 341       | P         | H       |
|                       |                                                                            | 358.1     | 37.66      | -8.34      | 46         | 44.86      | 21.39          | 2.5        | 31.09         | -       | -         | P         | H       |
|                       |                                                                            | 479.9     | 36.99      | -9.01      | 46         | 40.99      | 23.76          | 3.04       | 30.8          | -       | -         | P         | H       |
|                       |                                                                            | 720       | 37.73      | -8.27      | 46         | 37.68      | 26.71          | 3.74       | 30.4          | -       | -         | P         | H       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|                       |                                                                            | 55.38     | 35.32      | -4.68      | 40         | 51.9       | 13.55          | 1.07       | 31.2          | 100     | 112       | P         | V       |
|                       |                                                                            | 95.07     | 36.97      | -6.53      | 43.5       | 51.04      | 15.75          | 1.28       | 31.1          | -       | -         | P         | V       |
|                       |                                                                            | 157.44    | 38         | -5.5       | 43.5       | 50.19      | 17.21          | 1.78       | 31.18         | -       | -         | P         | V       |
|                       |                                                                            | 332.9     | 31.8       | -14.2      | 46         | 39.67      | 20.72          | 2.41       | 31            | -       | -         | P         | V       |
|                       |                                                                            | 479.9     | 31.39      | -14.61     | 46         | 35.39      | 23.76          | 3.04       | 30.8          | -       | -         | P         | V       |
|                       |                                                                            | 960.1     | 36.18      | -17.82     | 54         | 32.25      | 30.22          | 4.07       | 30.36         | -       | -         | P         | V       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|                       |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
| Remark                | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |            |            |            |                |            |               |         |           |           |         |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |

A calculation example for radiated spurious emission is shown as below:

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 2       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**



## Appendix C. Radiated Spurious Emission

|                        |                       |                            |         |
|------------------------|-----------------------|----------------------------|---------|
| <b>Test Engineer :</b> | Jesse Wang and Ken Wu | <b>Temperature :</b>       | 21~24°C |
|                        |                       | <b>Relative Humidity :</b> | 50~54%  |

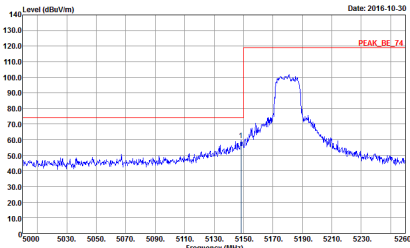
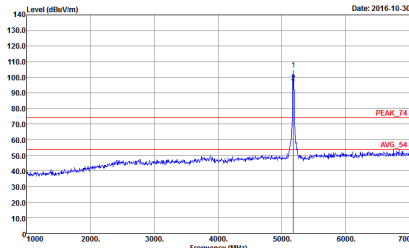
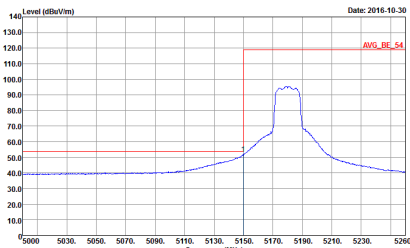
### Note symbol

|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

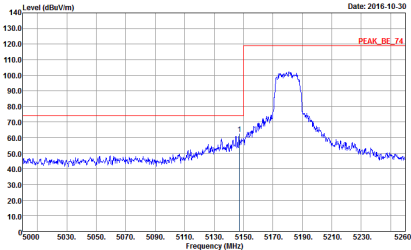
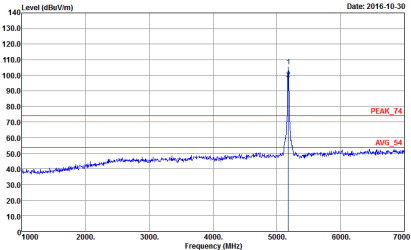
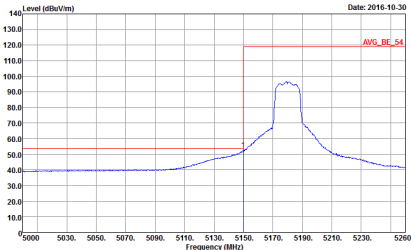


Band 1 - 5150~5250MHz

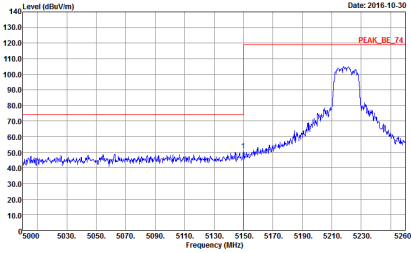
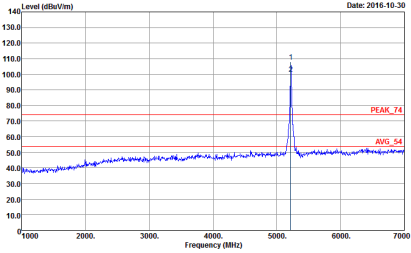
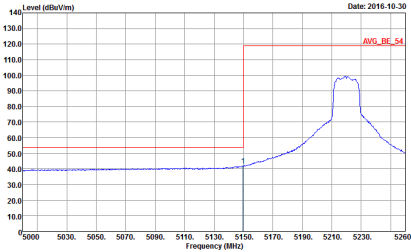
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                          |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 1<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 1<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 1<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>   | Left blank                                                                                                                                                                                                                                                                                                               |

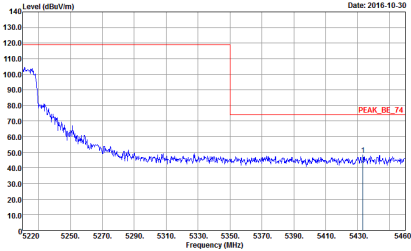
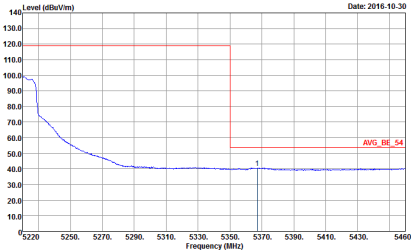


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                           |
| 2    | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 1<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 1<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 1<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank                                                                                                                                                                                                                                                                |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                           |
| 2    | Horizontal                                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank                                                                                                                                                                                                                                                                |

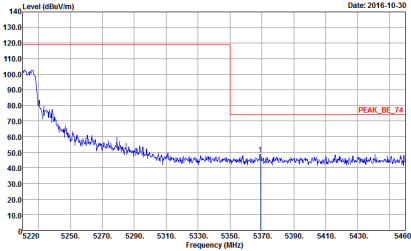
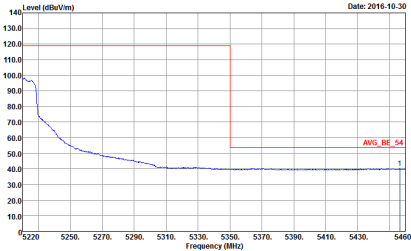


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                        |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                                                                  |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 03CH071MY<br/>Condition : PEAK_BE_74 3m HF-ANT 130829 HORIZONTAL<br/>REBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH071MY<br/>Condition : AVG_BE_54 3m HF-ANT 130829 HORIZONTAL<br/>REBW:1000.000kHz VSW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>   | Left blank  |

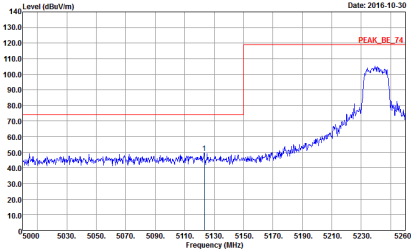
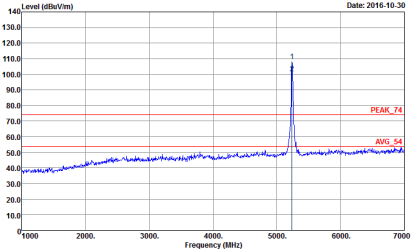
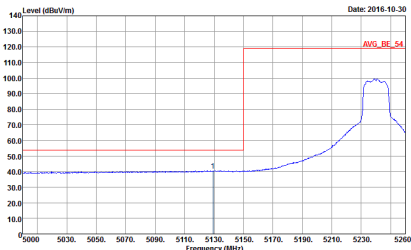


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                       |                                                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                 |                                                                                                                                                                                       |
| 2    | Vertical                                                                                                                                                                                 | Fundamental                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank                                                                                                                                                                            |

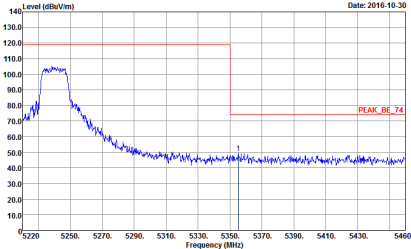
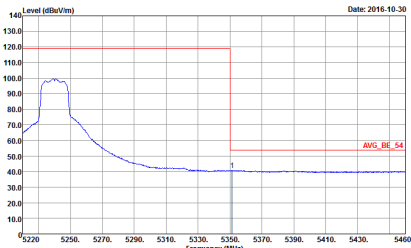


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                         |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                   |             |
| 2    | Vertical                                                                                                                                                                                                                                                                   | Fundamental |
| Peak | <div><p>Site : 03CH07.MY<br/>Condition : PEAK_BE_74 3m HF-ANT 130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07.MY<br/>Condition : AVG_BE_54 3m HF-ANT 130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |

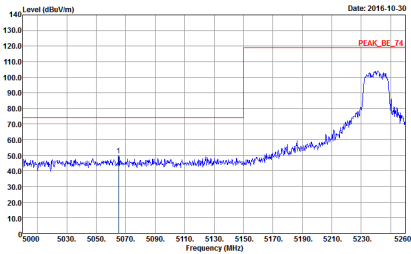
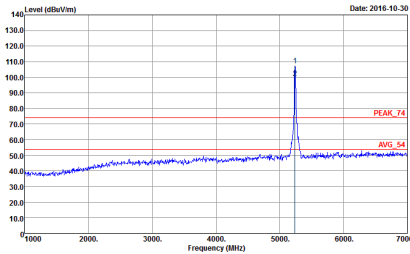
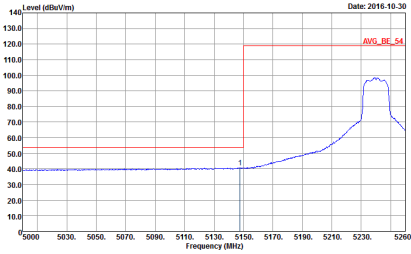


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                             |
| 2    | Horizontal                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                 |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK, BE 74 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK, 74 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG, BE 54 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank                                                                                                                                                                                                                                                                  |

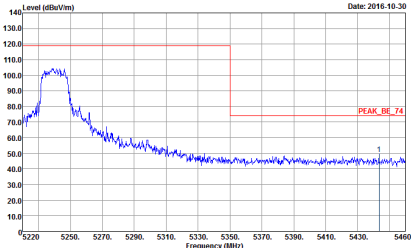
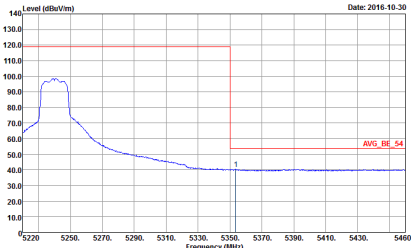


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                       |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                                                                                 |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                               | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>   | Left blank  |



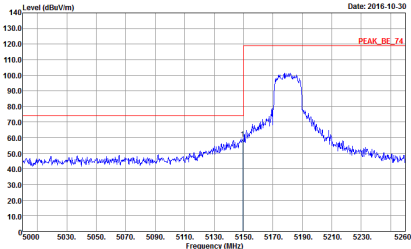
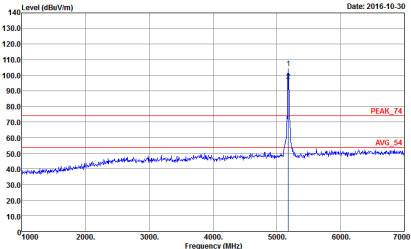
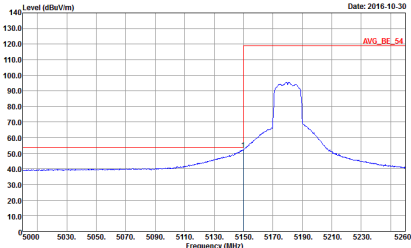
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                         |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                         |
| 2    | Vertical                                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                             |
| Peak | <div><p>Site : 03CH07.HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | <div><p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07.HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank                                                                                                                                                                                                                                                              |



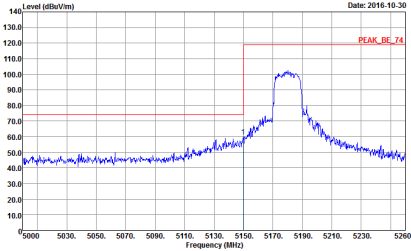
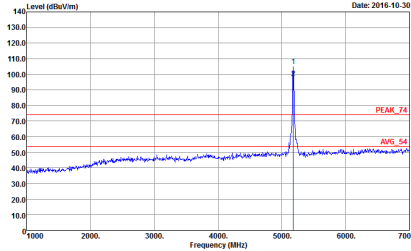
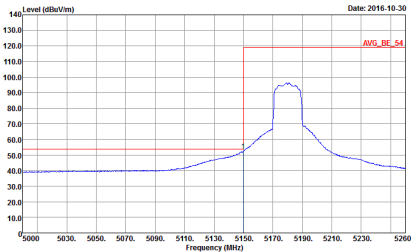
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                         |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                                   |             |
| 2    | Vertical                                                                                                                                                                                                                                                                   | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |



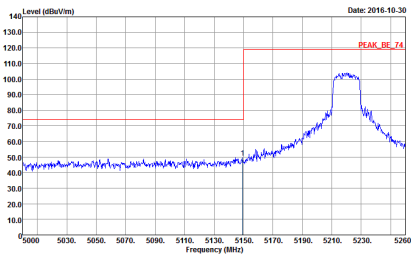
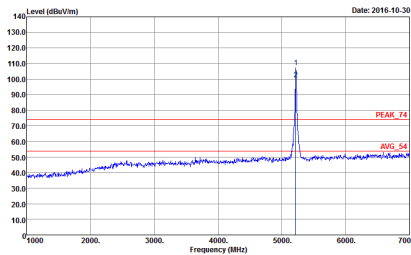
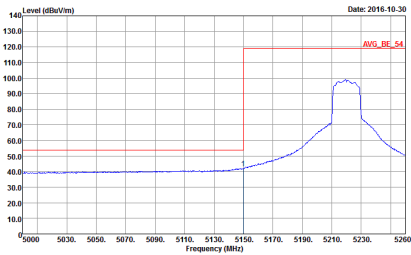
Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                  |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 13<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 13<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 13<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p>   | Left blank                                                                                                                                                                                                                                                                                                       |

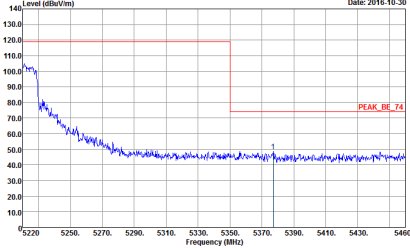
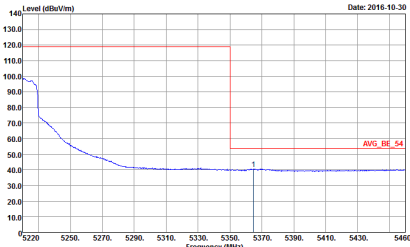


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                            |
| 2    | Vertical                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 13<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 13<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 13<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank                                                                                                                                                                                                                                                                 |

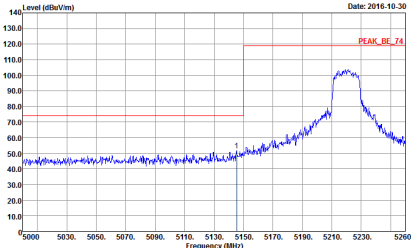
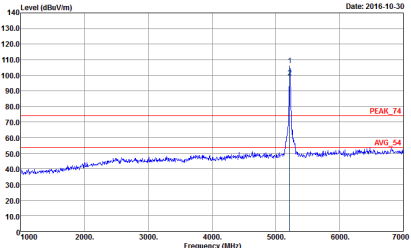
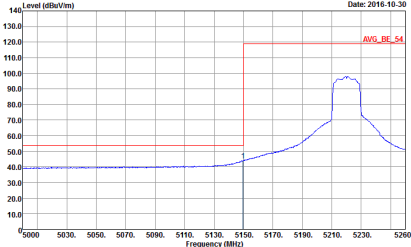


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - L                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                               |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p>   | Left blank                                                                                                                                                                                                                                                                                                    |

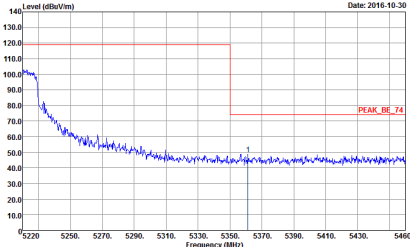
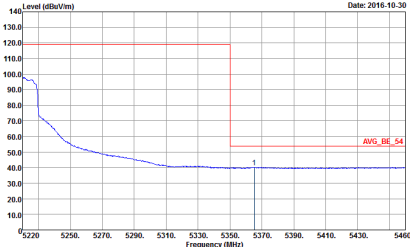


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH44 5220MHz - R                                                                                                                                                                                                                                                 |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |

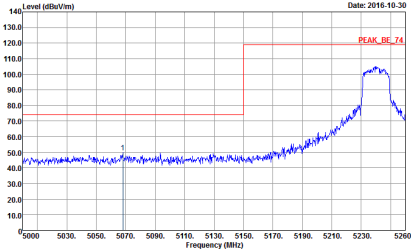
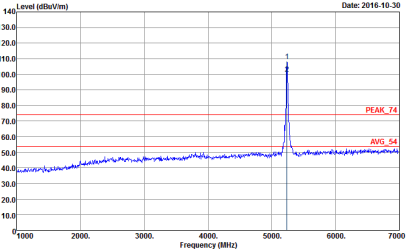
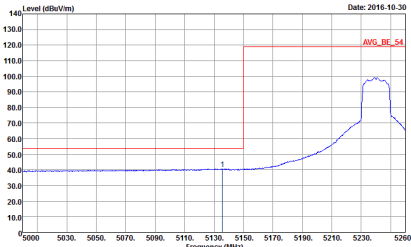


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - L                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                          |
| 2    | Vertical                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank                                                                                                                                                                                                                                                               |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH44 5220MHz - R                                                                                                                                                                                                                                               |             |
| 2    | Vertical                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |

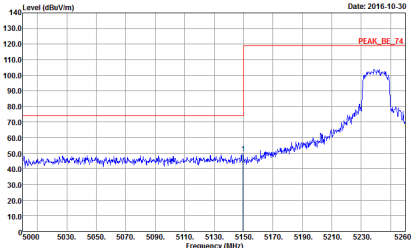
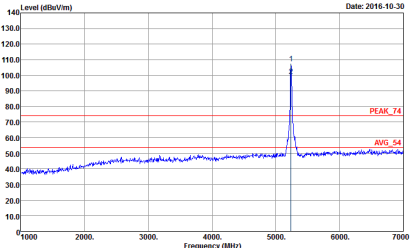
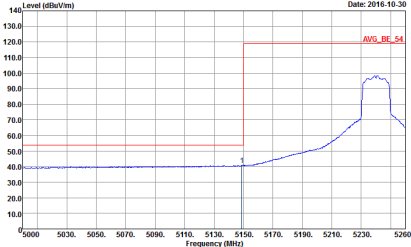


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                            |
| 2    | Horizontal                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_RE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_F4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_RE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank                                                                                                                                                                                                                                                                 |

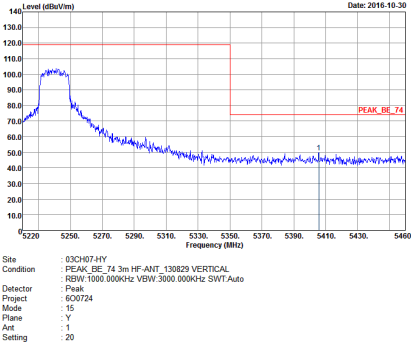
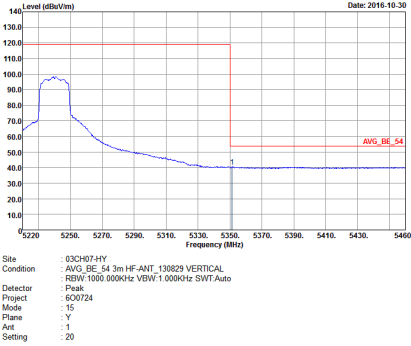


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                          |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                                                                               |             |
| 2    | Horizontal                                                                                                                                                                                  | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                       |
| 2    | Vertical                                                                                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>   | Left blank                                                                                                                                                                                                                                                                                                            |



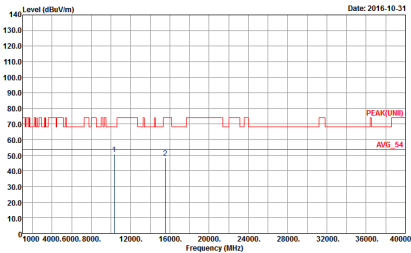
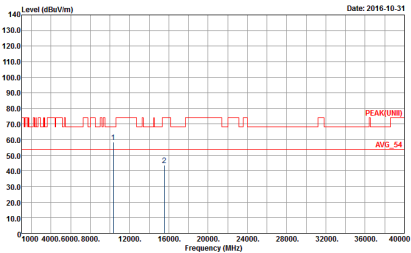
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                             |             |
|------|------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                  |             |
| 2    | Vertical                                                                                       | Fundamental |
| Peak | <div></div>   | Left blank  |
| Avg. | <div></div> | Left blank  |



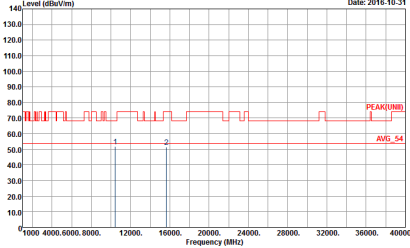
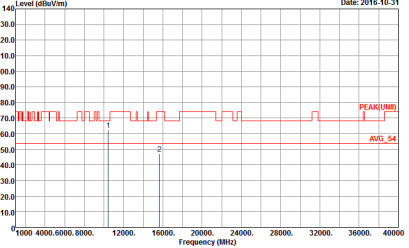
Band 1 5150~5250MHz

Band 1 - 5150~5250MHz

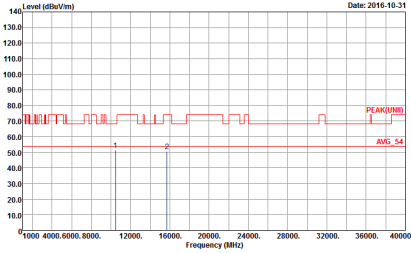
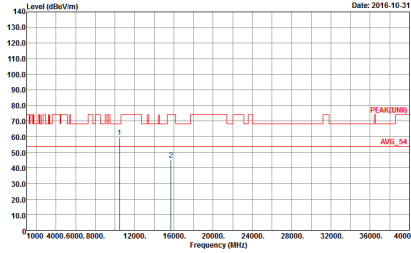
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                              |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                              |
| 2            | Horizontal                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                     |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 1<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 1<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |



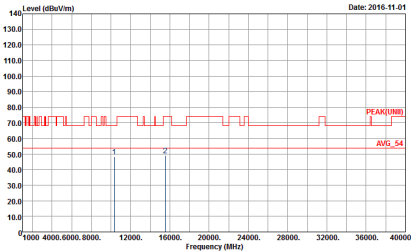
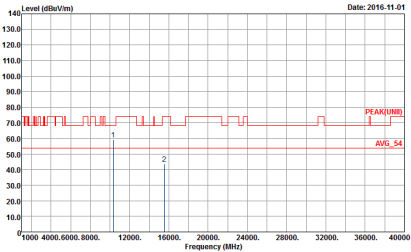
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                            |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH44 5220MHz                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                            |
| 2            | Horizontal                                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(JNI) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Avt : 1<br/>Setting : 20</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(JNI) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 2<br/>Plane : Y<br/>Avt : 1<br/>Setting : 20</p></div> |



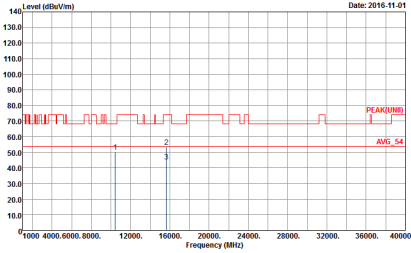
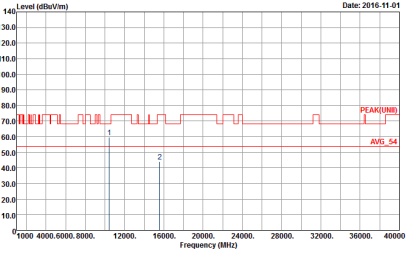
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                  |
| 2            | Horizontal                                                                                                                                                                                                                                                        | Vertical                                                                                                                                                                                                                                                         |
| Peak<br>Avg. |  <p>Site : 03CH07.HY<br/>Condition : PEAK(UNB) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p> |  <p>Site : 03CH07.HY<br/>Condition : PEAK(UNB) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 3<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p> |
|              |                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                  |



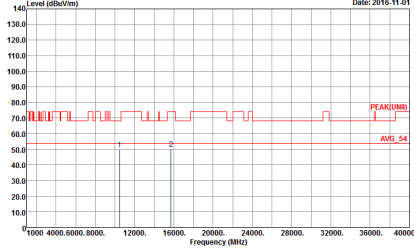
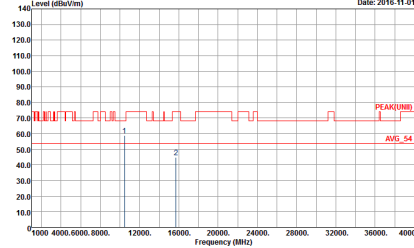
Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                               |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                               |
| 2            | Horizontal                                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Site : 03CH07-11Y<br/>Condition : PEAK(UM) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 13<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | <div><p>Site : 03CH07-11Y<br/>Condition : PEAK(UM) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 13<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH44 5220MHz                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |
| 2            | Horizontal                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(JUN) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Avt : 1<br/>Setting : 20</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(JUN) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 14<br/>Plane : Y<br/>Avt : 1<br/>Setting : 20</p></div> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH48 5240MHz                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |
| 2            | Horizontal                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(JUN) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Avt : 1<br/>Setting : 20</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(JUN) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Avt : 1<br/>Setting : 20</p></div> |



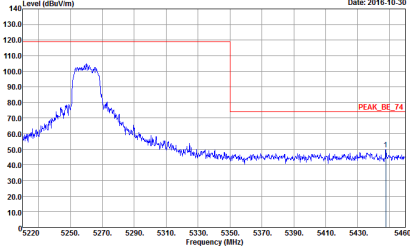
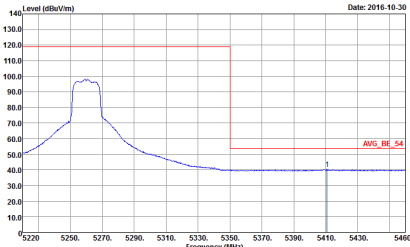
Band 1 5150~5250MHz

Band 2 - 5250~5350MHz

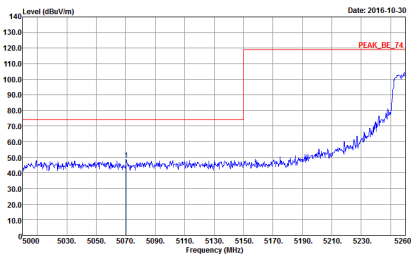
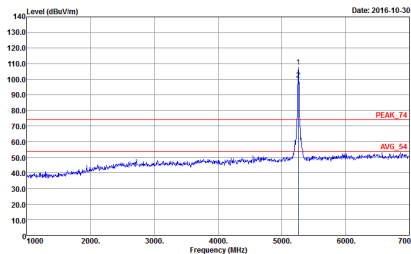
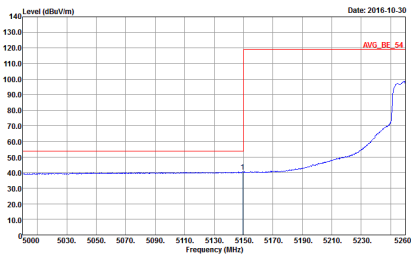
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - L           |             |
| 2    | Horizontal                         | Fundamental |
| Peak |                                    |             |
| Avg. |                                    | Left blank  |

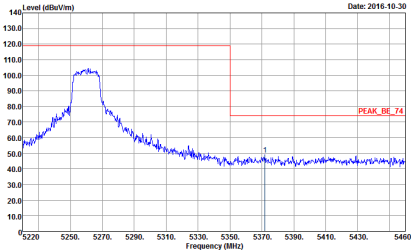
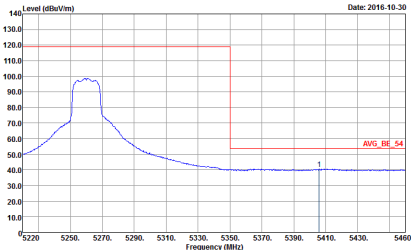


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                                     |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                   | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 4<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 4<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |

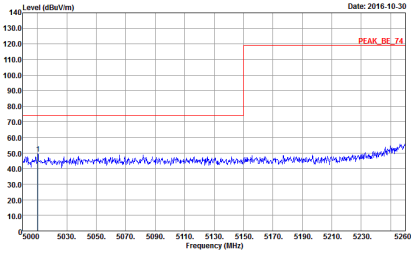
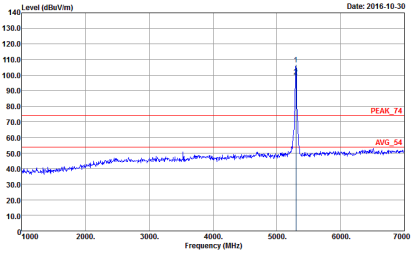
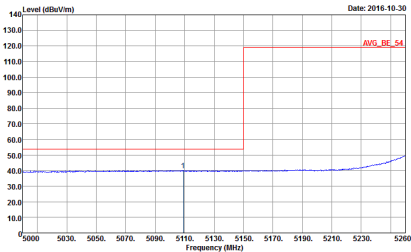


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                         |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                         |
| 2    | Vertical                                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                             |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 4<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 4<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 4<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank                                                                                                                                                                                                                                                              |

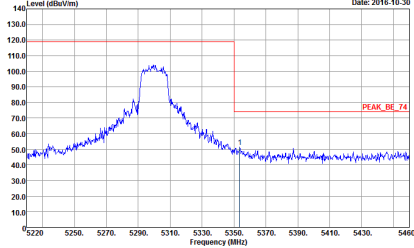
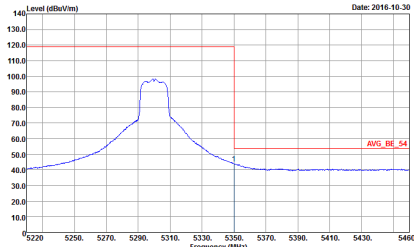


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                                                                                          |             |
| 2    | Vertical                                                                                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : RDW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 600724<br/>Plane : -4<br/>Ant : Y<br/>Setting : 1<br/>Setting : 20</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : RDW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 600724<br/>Plane : -4<br/>Ant : Y<br/>Setting : 1<br/>Setting : 20</p></div>   | Left blank  |

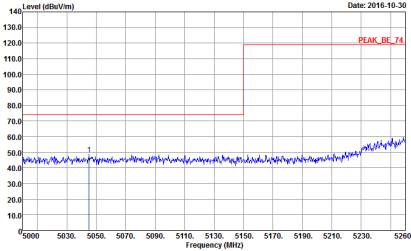
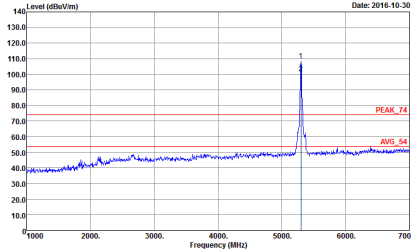
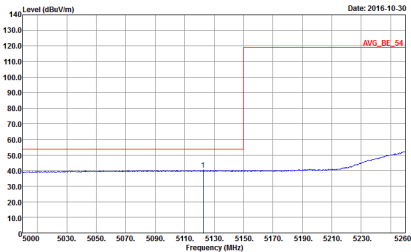


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                               |
| 2    | Horizontal                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                   |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK, BE_74 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 5<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK, 74 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 5<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG, BE_54 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 5<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank                                                                                                                                                                                                                                                                    |

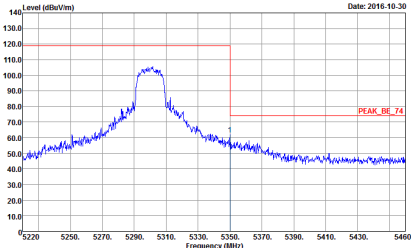
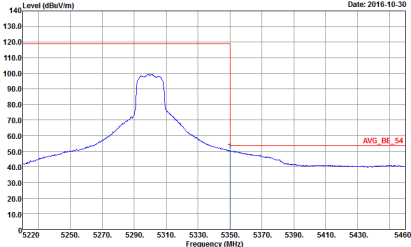


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                             |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                                                                       |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank  |

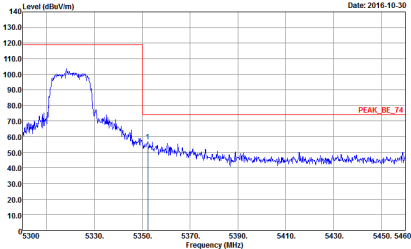
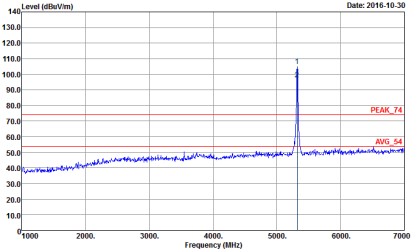
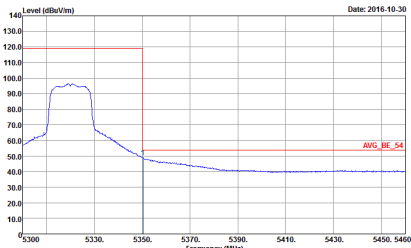


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                           |
| 2    | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 5<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 5<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 5<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank                                                                                                                                                                                                                                                                |

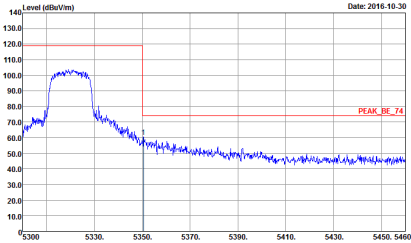
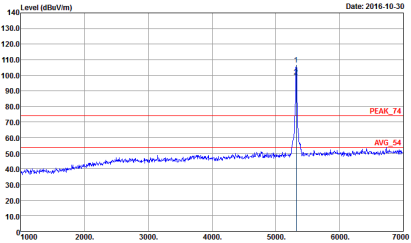
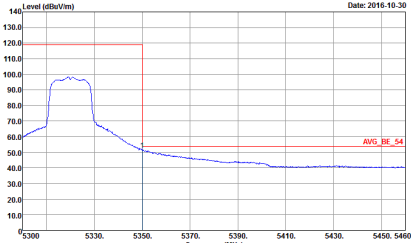


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                                                                     |             |
| 2    | Vertical                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank  |



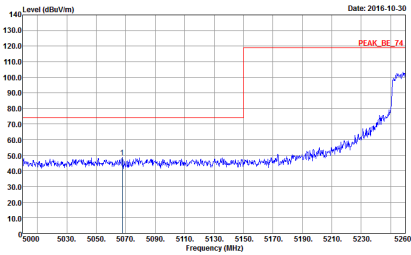
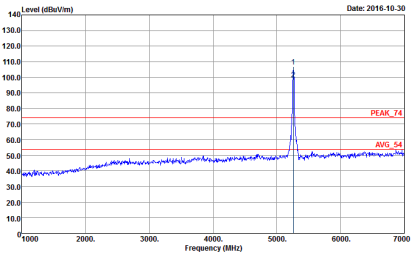
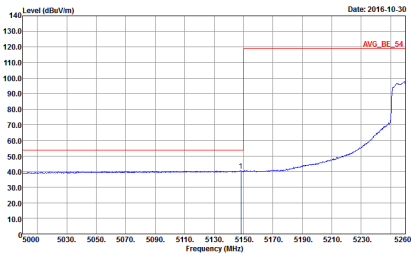
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                          |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 6<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 6<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 6<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div>   | Left blank                                                                                                                                                                                                                                                                                                               |



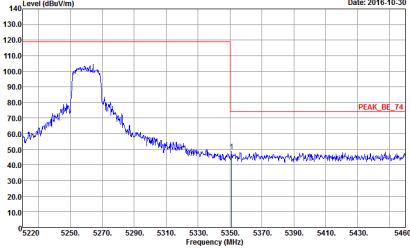
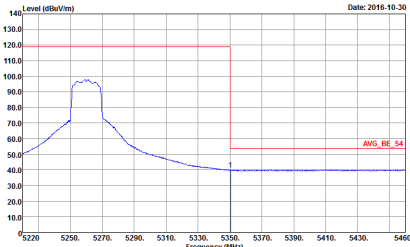
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                           |
| 2    | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 6<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 6<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 6<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> | Left blank                                                                                                                                                                                                                                                                |



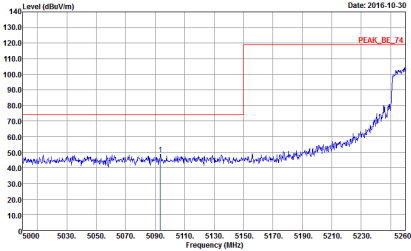
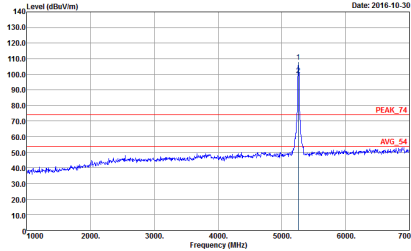
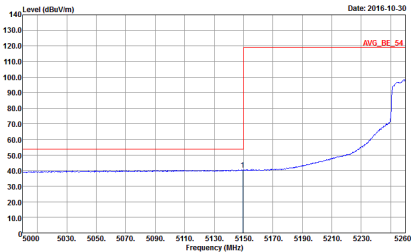
Band 2 5250~5350MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH52 5260MHz - L                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                  |
| 2    | Horizontal                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p>  |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p> | Left blank                                                                                                                                                                                                                                                       |

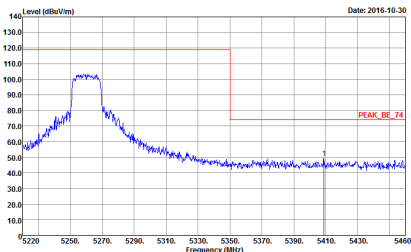
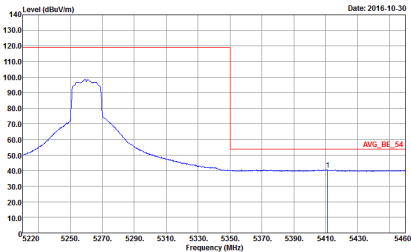


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH52 5260MHz - R                                                                                                                                                                                                                                                 |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |

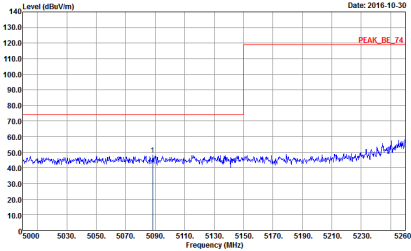
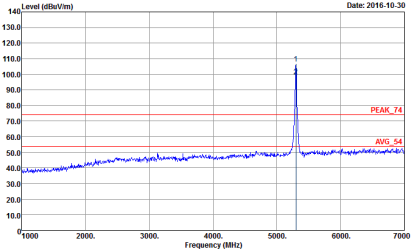
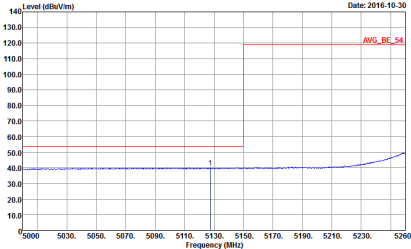


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH52 5260MHz - L                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                          |
| 2    | Vertical                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank                                                                                                                                                                                                                                                               |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH52 5260MHz - R                                                                                                                                                                                                                                               |             |
| 2    | Vertical                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | Left blank  |

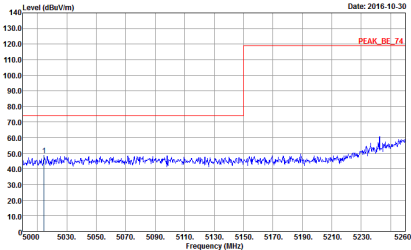
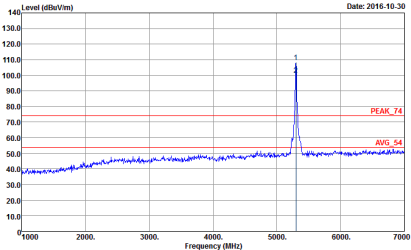
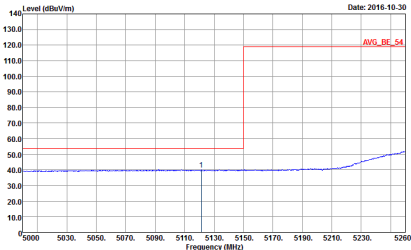


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - L                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                              |
| 2    | Horizontal                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_RE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : V<br/>Ant : 1<br/>Setting : 19.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_F4 3m HF-ANT_530829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : V<br/>Ant : 1<br/>Setting : 19.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_RE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : V<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank                                                                                                                                                                                                                                                                   |

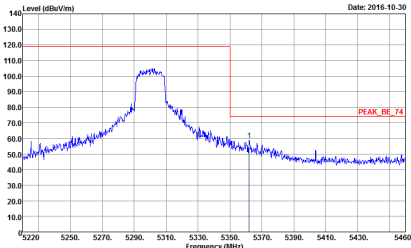
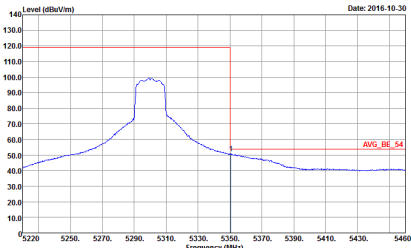


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                            |            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ANT  | 802.11n HT20 CH60 5300MHz - R                                                                                                                                                                 |            |
| 2    | Horizontal                                                                                                                                                                                    | Vertical   |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | Left blank |

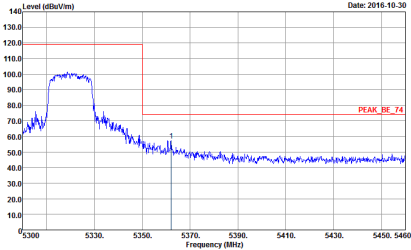
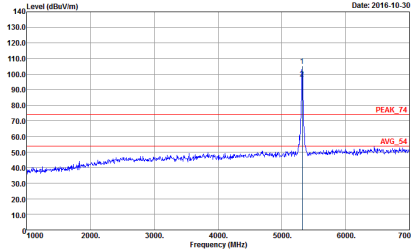
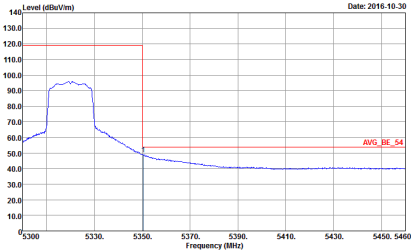


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - L                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                            |
| 2    | Vertical                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : IT<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : IT<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : IT<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank                                                                                                                                                                                                                                                                 |

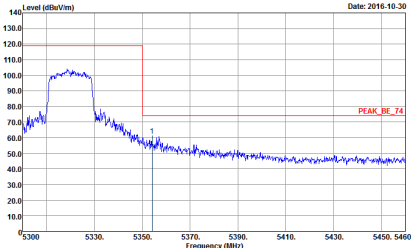
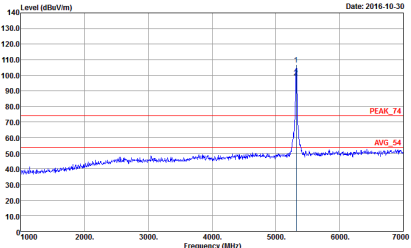
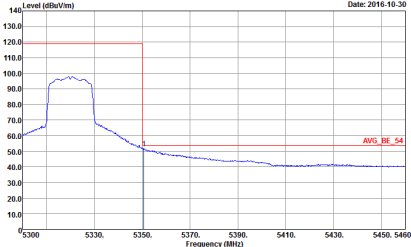


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH60 5300MHz - R                                                                                                                                                                                                                                                 |             |
| 2    | Vertical                                                                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH64 5320MHz                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                              |
| 2    | Horizontal                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 18<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 18<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 18<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> | Left blank                                                                                                                                                                                                                                                                   |



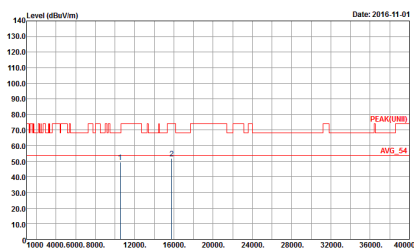
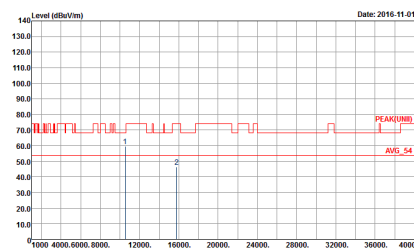
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH64 5320MHz                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                            |
| 2    | Vertical                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : IS<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : IS<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : IS<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> | Left blank                                                                                                                                                                                                                                                                 |



Band 2 5250~5350MHz

Band 2 - 5250~5350MHz

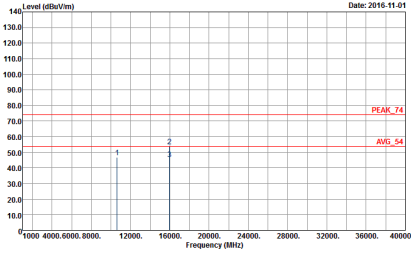
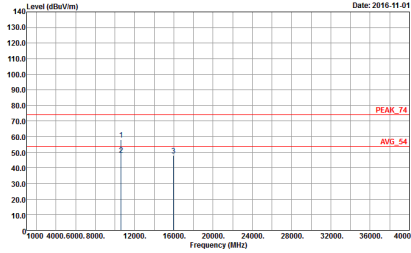
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH52 5260MHz                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                   |
| 2            | Horizontal                                                                                                                                                                                                                                                         | Vertical                                                                                                                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH07-11Y<br/>Condition : PEAK(UNB) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 4<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p> |  <p>Site : 03CH07-11Y<br/>Condition : PEAK(UNB) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 4<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p> |



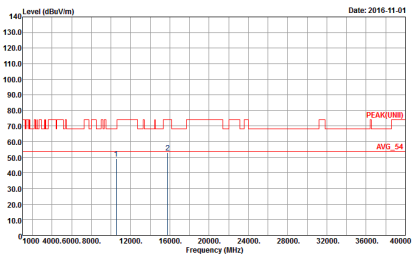
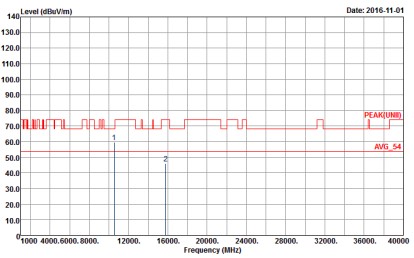
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH60 5300MHz                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                            |
| 2            | Horizontal                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-01</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Alt : 1<br/>Setting : 19.5</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-01</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Alt : 1<br/>Setting : 19.5</p></div> |



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                            |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                            |
| 2            | Horizontal                                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 6<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 6<br/>Plane : Y<br/>Ant : 1<br/>Setting : 18.5</p></div> |



Band 2 5250~5350MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                            |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH52 5260MHz                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                            |
| 2            | Horizontal                                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Site : 03CH074HY<br/>Condition : PEAK(UM) 3m SHF:EHP_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> | <div><p>Site : 03CH074HY<br/>Condition : PEAK(UM) 3m SHF:EHP_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 16<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20</p></div> |



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH60 5300MHz                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                             |
| 2            | Horizontal                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-02</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : Y<br/>Avt : 1<br/>Setting : 19.5</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-02</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 17<br/>Plane : Y<br/>Avt : 1<br/>Setting : 19.5</p></div> |



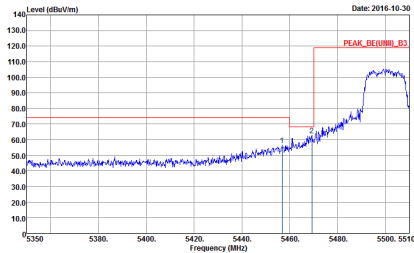
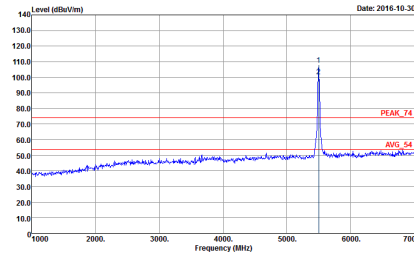
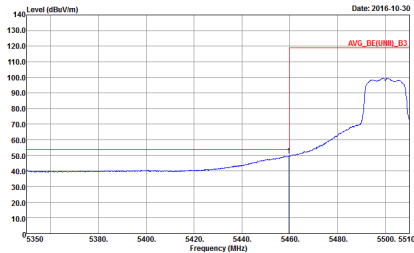
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH64 5320MHz                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                             |
| 2            | Horizontal                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-02</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Avt : 1<br/>Setting : 18.5</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-02</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 15<br/>Plane : Y<br/>Avt : 1<br/>Setting : 18.5</p></div> |



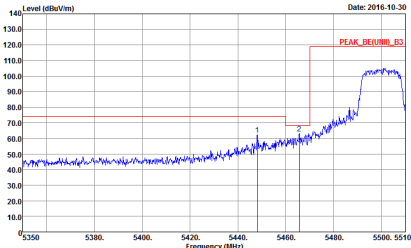
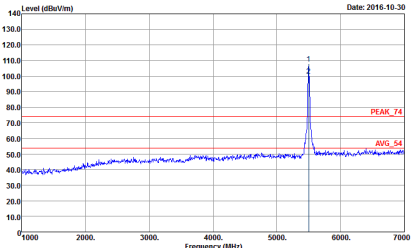
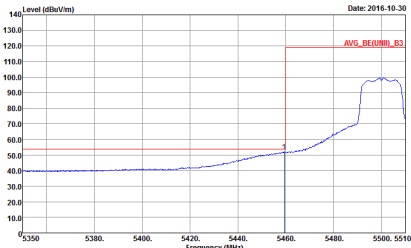
Band 2 5250~5350MHz

Band 3 - 5470~5725MHz

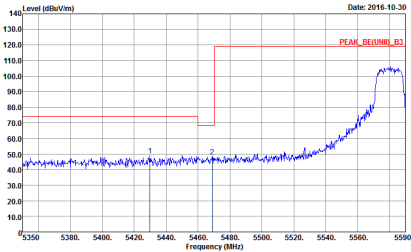
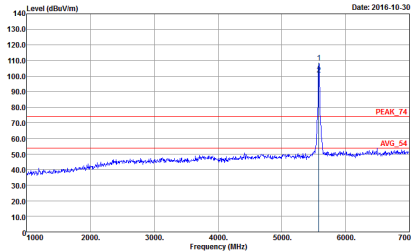
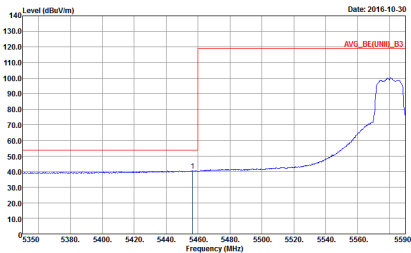
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                   |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UN)I_B3 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 7<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5<br/>68.3</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 7<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5<br/>68.3</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UN)I_B3 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 7<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5<br/>68.3</p></div>   | Left blank                                                                                                                                                                                                                                                                                                                        |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                           |
| 2    | Vertical                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 7<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 7<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 7<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5</p></div> | Left blank                                                                                                                                                                                                                                                                |

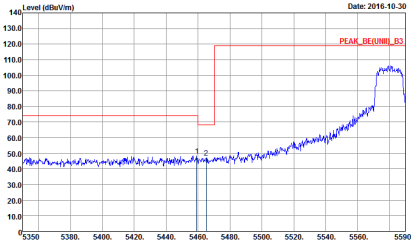
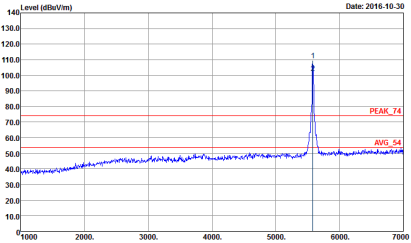
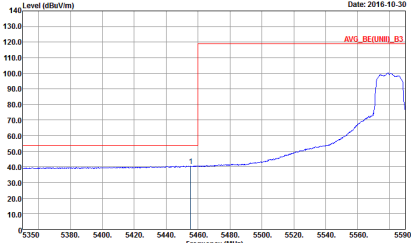


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                           |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                           |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 0<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>Setting : 68.3</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 0<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>Setting : 68.3</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 0<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>Setting : 68.3</p></div>   | Left blank                                                                                                                                                                                                                                                                                                                                |

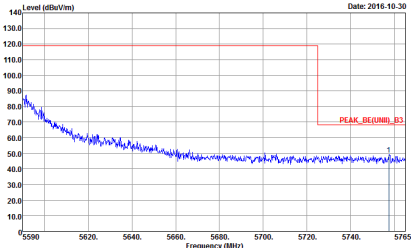


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                                                                                                                   |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                  | Fundamental |
| Peak | <div><p>Level (dBuV/m)</p><p>Date: 2016-10-30</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_RECORD_03 3m HF-ANT : 130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>68.3</p></div> | Left blank  |

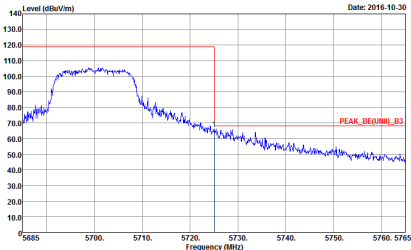
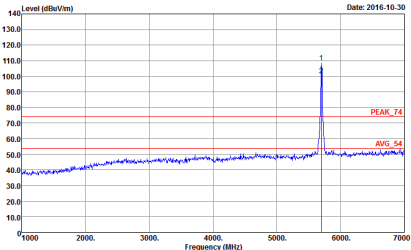


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                            |
| 2    | Vertical                                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Att : 1<br/>Setting : 20<br/>Setting : 68.3</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Att : 1<br/>Setting : 20<br/>Setting : 68.3</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UMI)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Att : 1<br/>Setting : 20<br/>Setting : 68.3</p></div> | Left blank                                                                                                                                                                                                                                                                                 |

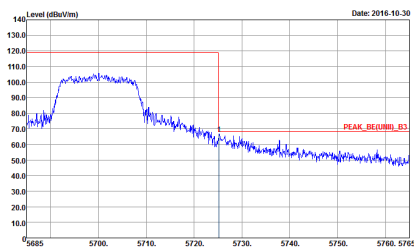
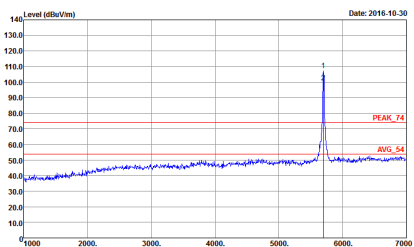


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                      |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                                                                               |             |
| 2    | Vertical                                                                                                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UMI)_B3 3m HF ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : S<br/>Plane : Y<br/>Att : 1<br/>Setting : 20<br/>68.3</p></div> | Left blank  |



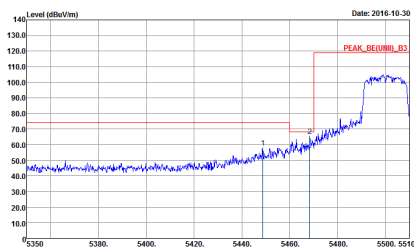
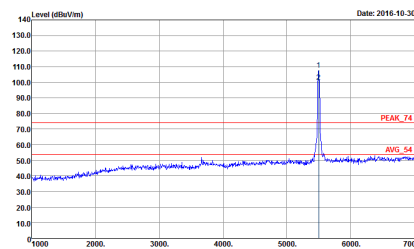
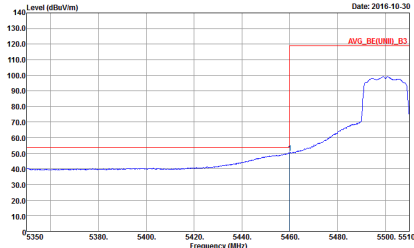
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                          |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH07.HY<br/>Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 9<br/>Plane : Y<br/>Ant : 1<br/>Setting : 68.3</p></div> | <div><p>Site : 03CH07.HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 9<br/>Plane : Y<br/>Ant : 1<br/>Setting : 68.3</p></div> |



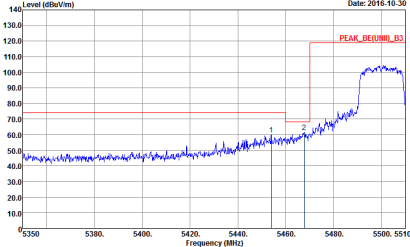
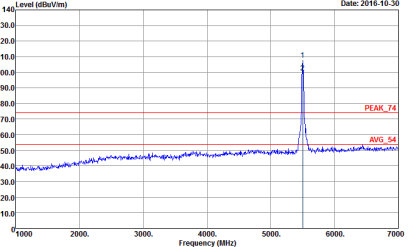
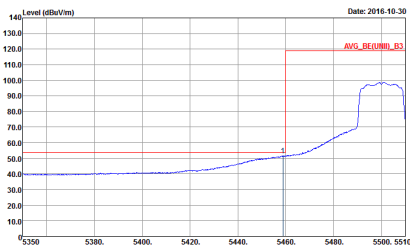
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                   |
| 2    | Vertical                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UBB)_B3 3m HF-ANT: 130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 9<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19<br/>68.3</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT: 130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 9<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19<br/>68.3</p></div> |



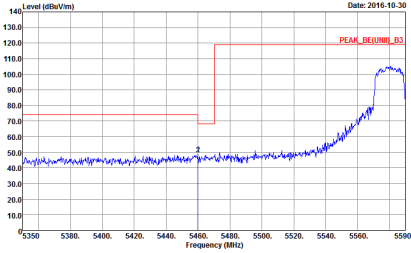
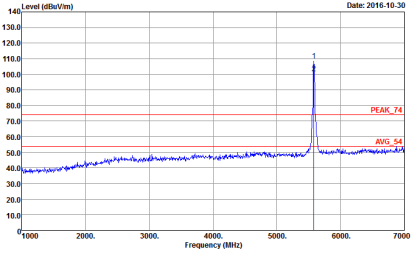
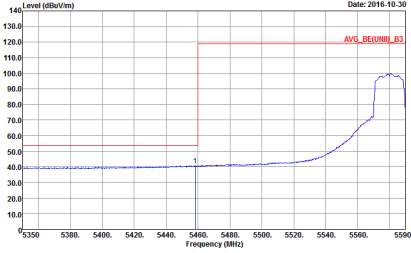
Band 3 5470~5725MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH100 5500MHz                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                              |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 600724<br/>Plane : 19<br/>Ant : Y<br/>Setting : 19.5<br/>Setting : 68.3</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 600724<br/>Plane : 19<br/>Ant : Y<br/>Setting : 19.5<br/>Setting : 68.3</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 600724<br/>Plane : 19<br/>Ant : Y<br/>Setting : 19.5<br/>Setting : 68.3</p>   | Left blank                                                                                                                                                                                                                                                                                                                   |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH100 5500MHz                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                     |
| 2    | Vertical                                                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                                         |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UM)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 19<br/>Plane : Y<br/>Att : 1<br/>Setting : 19.5<br/>68.3</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 19<br/>Plane : Y<br/>Att : 1<br/>Setting : 19.5<br/>68.3</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UM)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 19<br/>Plane : Y<br/>Att : 1<br/>Setting : 19.5<br/>68.3</p></div> | Left blank                                                                                                                                                                                                                                                                          |

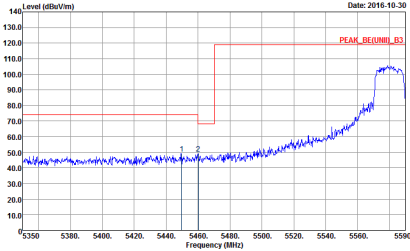
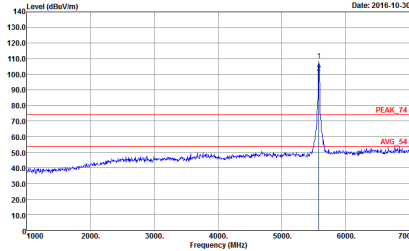
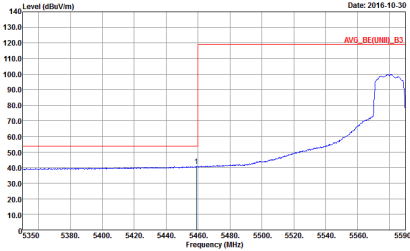


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - L                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                          |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                                                                              |
| Peak | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>Setting : 68.3</p></div>  | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>Setting : 68.3</p></div> |
| Avg. | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>Setting : 68.3</p></div> | Left blank                                                                                                                                                                                                                                                                                                                               |

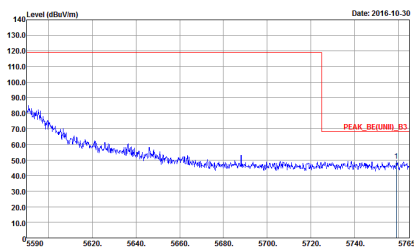


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH116 5580MHz - R                                                                                                                                                                                                                                                                                               |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                                                                   | Fundamental |
| Peak | <div><p>Level (dBuV/m)</p><p>Date: 2016-10-30</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : PEAK_RECORD_B3 3m HF-ANT : 130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>68.3</p></div> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - L                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                            |
| 2    | Vertical                                                                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNIL)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 68.3</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 68.3</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UNIL)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 68.3</p></div> | Left blank                                                                                                                                                                                                                                                                 |

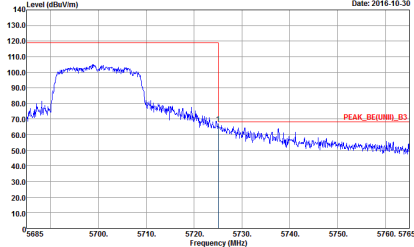
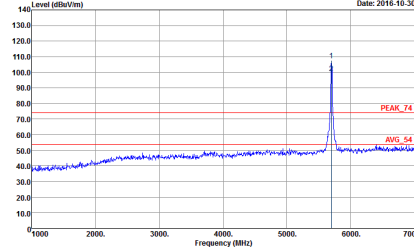


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                       |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH116 5580MHz - R                                                                                                                                                                                                                                                           |             |
| 2    | Vertical                                                                                                                                                                                                                                                                                 | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK (BELOW)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>68.3</p></div> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                 |                                                                                                                                                                                            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH140 5700MHz                                                                                                                                                                         |                                                                                                                                                                                            |
| 2    | Horizontal                                                                                                                                                                                         | Fundamental                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07.HY<br/>Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 21<br/>Plane : Y<br/>Ant : 1<br/>Setting : 68.3</p></div> | <div><p>Site : 03CH07.HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 21<br/>Plane : Y<br/>Ant : 1<br/>Setting : 68.3</p></div> |



| WIFI  | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                        |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT   | 802.11n HT20 CH140 5700MHz                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                        |
| 2     | Vertical                                                                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                                                            |
| Peak. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 21<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19<br/> : 68.3</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 21<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19<br/> : 68.3</p></div> |
|       |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                        |



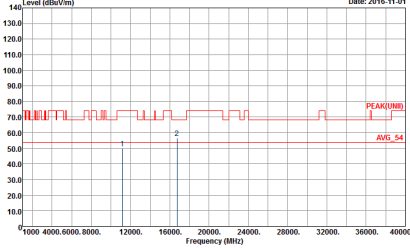
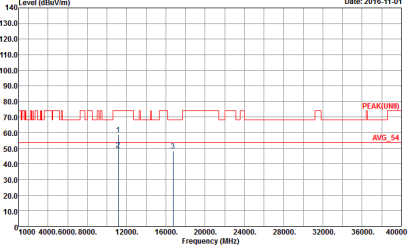
Band 3 5470~5725MHz

Band 3 - 5470~5725MHz

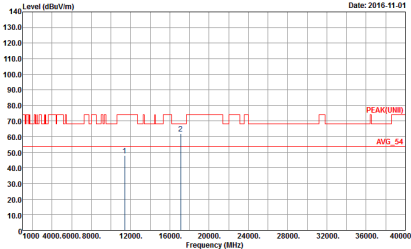
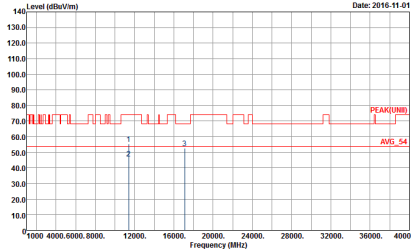
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                     |                                                                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH100 5500MHz                                                                                                                                                                                 |                                                                                                                                                                                                     |
| 2            | Horizontal                                                                                                                                                                                            | Vertical                                                                                                                                                                                            |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : F<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5<br/>68.3</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : F<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5<br/>68.3</p></div> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                              |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                              |
| 2            | Horizontal                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                     |
| Peak<br>Avg. | <div><p>Site : 03CH074HY<br/>Condition : PEAK(UM) 3m SHF.EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 8<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>Setting : 68.3</p></div> | <div><p>Site : 03CH074HY<br/>Condition : PEAK(UM) 3m SHF.EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 8<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>Setting : 68.3</p></div> |
|              |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                              |



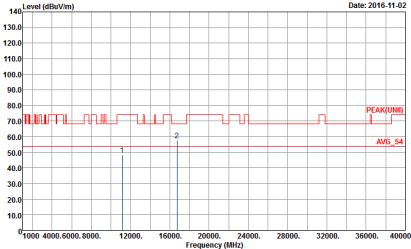
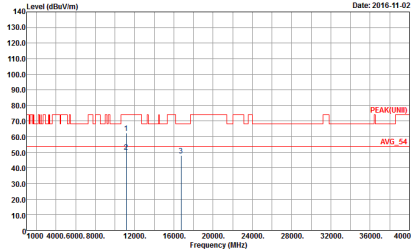
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                     |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH140 5700MHz                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                     |
| 2            | Horizontal                                                                                                                                                                                                                                                                           | Vertical                                                                                                                                                                                                                                                                            |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(UNB) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 9<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19<br/>68.3</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(UNB) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 9<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19<br/>68.3</p></div> |



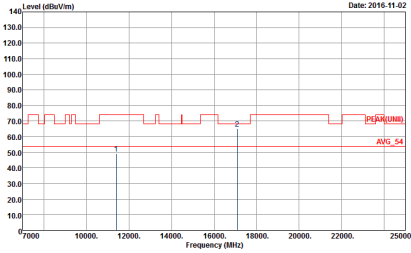
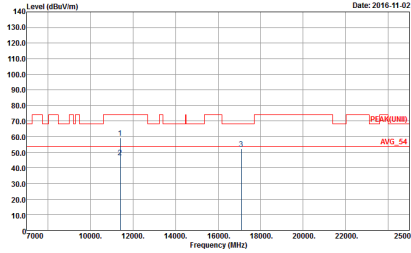
Band 3 5470~5725MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH100 5500MHz                                                                                                                                                                                       |                                                                                                                                                                                                                |
| 2            | Horizontal                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(UMI) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 19<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5<br/>Setting : 68.3</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK(UMI) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 19<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19.5<br/>Setting : 68.3</p></div> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH116 5580MHz                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                      |
| 2            | Horizontal                                                                                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH07.HY<br/>Condition : PEAK(UNB) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>68.3</p></div> | <div><p>Site : 03CH07.HY<br/>Condition : PEAK(UNB) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 20<br/>Plane : Y<br/>Ant : 1<br/>Setting : 20<br/>68.3</p></div> |



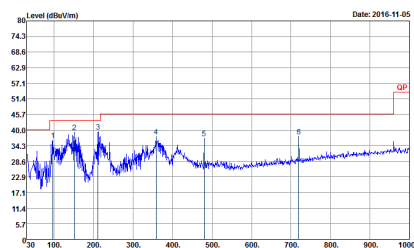
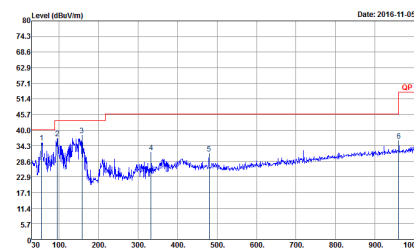
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH140 5700MHz                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                       |
| 2            | Horizontal                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH07.HY<br/>Condition : PEAK(UNI) 3m SHF-EHF_13102.9 HORIZONTAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 21<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19<br/>68.3</p></div> | <div><p>Site : 03CH07.HY<br/>Condition : PEAK(UNI) 3m SHF-EHF_13102.9 VERTICAL<br/>Detector : Peak<br/>Project : 600724<br/>Mode : 21<br/>Plane : Y<br/>Ant : 1<br/>Setting : 19<br/>68.3</p></div> |



Band 3 5470~5725MHz

Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF)

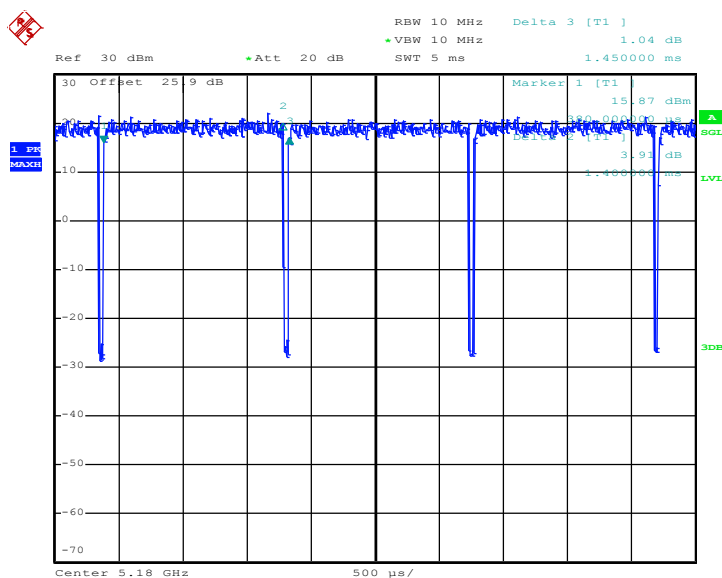
| WIFI         | 5GHz WIFI                                                                                                                                                                                                               |                                                                                                                                                                                                                        |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 LF                                                                                                                                                                                                         |                                                                                                                                                                                                                        |
| 2            | Horizontal                                                                                                                                                                                                              | Vertical                                                                                                                                                                                                               |
| QP /<br>Peak |  <p>Site : 03CH07-HY<br/>Condition : QP 3m LF-ANT-35419(s) HORIZONTAL<br/>Project : 600724<br/>Mode : 25<br/>Plane : Y<br/>Ant : 1</p> |  <p>Site : 03CH07-HY<br/>Condition : QP 3m LF-ANT-35419(s) VERTICAL<br/>Project : 600724<br/>Mode : 25<br/>Plane : Y<br/>Ant : 1</p> |
|              |                                                                                                                                                                                                                         |                                                                                                                                                                                                                        |

## Appendix D Duty Cycle Plots

<EUT with J300 Antenna>

| Band              | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|-------------------|---------------|-------|----------|-------------|
| 802.11a           | 96.55         | 1400  | 0.71     | 1kHz        |
| 5GHz 802.11n HT20 | 97.04         | 1310  | 0.76     | 1kHz        |

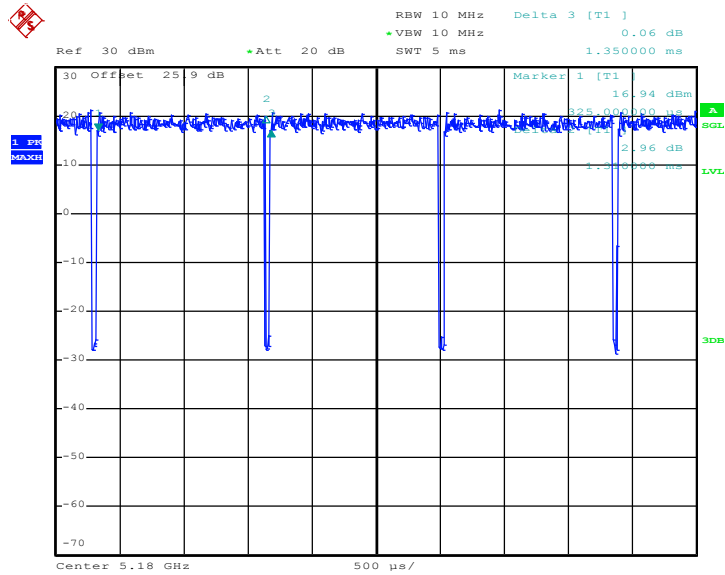
### 802.11a



Date: 3.NOV.2016 16:22:17



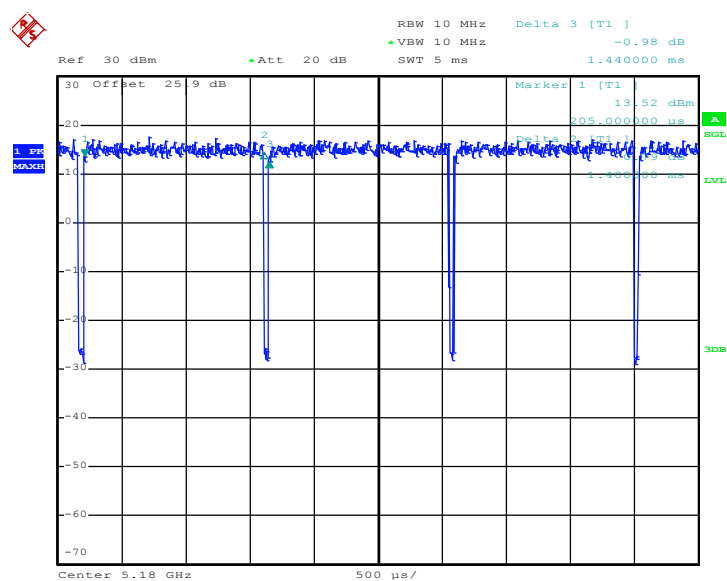
802.11n HT20



Date: 3.NOV.2016 16:28:08

**<EUT with J301 Antenna>**

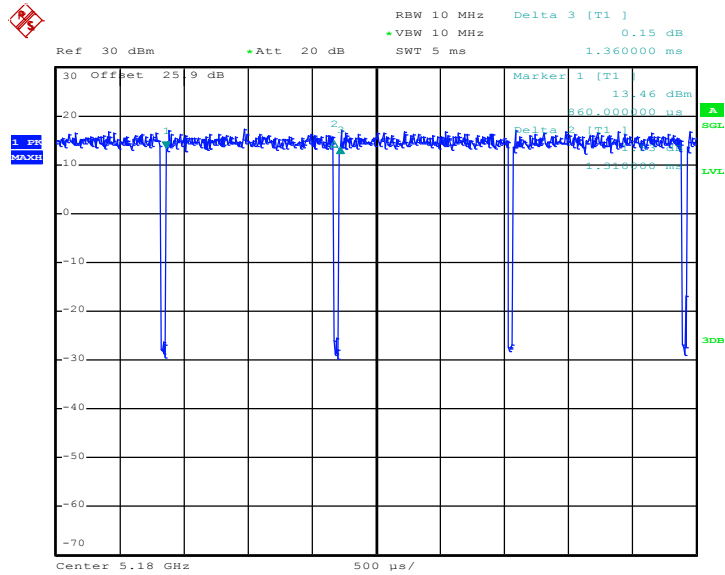
| Band              | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|-------------------|---------------|-------|----------|-------------|
| 802.11a           | 97.22         | 1400  | 0.71     | 1kHz        |
| 5GHz 802.11n HT20 | 96.36         | 1310  | 0.76     | 1kHz        |

**802.11a**


Date: 4.NOV.2016 16:56:02



5GHz 802.11n HT20



Date: 4.NOV.2016 16:51:51