



# FCC RF Test Report

**APPLICANT** : Sony Mobile Communications Inc.  
**EQUIPMENT** : GSM/WCDMA/LTE Phone+Bluetooth, DTS/UNII  
a/b/g/n/ac and NFC  
**BRAND NAME** : Sony  
**FCC ID** : PY7-48140L  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Jun. 27, 2017 and testing was completed on Oct. 20, 2017. 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.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



## SPORTON INTERNATIONAL INC.

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FCC ID : PY7-48140L

Page Number : 1 of 32

Report Issued Date : Nov. 09, 2017

Report Version : Rev. 02

Report Template No.: BU5-FR15EWL Version 2.0



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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION                                                                                                                                                     | ISSUED DATE   |
|--------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FR762713-01E | Rev. 01 | Initial issue of report                                                                                                                                         | Nov. 06, 2017 |
| FR762713-01E | Rev. 02 | 1. Revising power in appendix a.<br>2. Add the description and test for 802.11n mode in section 2.2 and appendix e.<br>3. Remove frequency stability test item. | Nov. 09, 2017 |
|              |         |                                                                                                                                                                 |               |
|              |         |                                                                                                                                                                 |               |
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|              |         |                                                                                                                                                                 |               |
|              |         |                                                                                                                                                                 |               |
|              |         |                                                                                                                                                                 |               |
|              |         |                                                                                                                                                                 |               |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule           | Description                            | Limit                                             | Result | Remark                                    |
|----------------|--------------------|----------------------------------------|---------------------------------------------------|--------|-------------------------------------------|
| 3.1            | 15.403(i)          | 6dB, 26dB and 99% Occupied Bandwidth   | -                                                 | Pass   | -                                         |
| 3.2            | 15.407(a)          | Maximum Conducted Output Power         | $\leq 24$ dBm<br>(depend on band)                 | Pass   | -                                         |
| 3.3            | 15.407(a)          | Power Spectral Density                 | $\leq 11$ dBm<br>(depend on band)                 | Pass   | -                                         |
| 3.4            | 15.407(b)          | Unwanted Emissions                     | $\leq -17, -27$ dBm<br>(depend on band)&15.209(a) | Pass   | Under limit<br>3.29 dB at<br>5350.800 MHz |
| 3.5            | 15.207             | AC Conducted Emission                  | 15.207(a)                                         | Pass   | Under limit<br>15.60 dB at<br>1.070 MHz   |
| 3.6            | 15.407(c)          | Automatically Discontinue Transmission | Discontinue Transmission                          | Pass   | -                                         |
| 3.7            | 15.203 & 15.407(a) | Antenna Requirement                    | N/A                                               | Pass   | -                                         |



# 1 General Description

## 1.1 Applicant

**Sony Mobile Communications Inc.**

4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan

## 1.2 Manufacturer

**Sony Mobile Communications Inc.**

4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan

## 1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, FM Receiver, NFC, and GPS.

| Product Specification subjective to this standard |                       |  |  |
|---------------------------------------------------|-----------------------|--|--|
| Antenna Type                                      | Monopole Antenna      |  |  |
| Antenna Gain                                      | <5150 MHz ~ 5250 MHz> |  |  |
|                                                   | -2.2 dBi              |  |  |
|                                                   | <5250 MHz ~ 5350 MHz> |  |  |
|                                                   | -2.6 dBi              |  |  |
|                                                   | <5470 MHz ~ 5725 MHz> |  |  |
|                                                   | -2.4 dBi              |  |  |

| EUT Information List |            |            |                            |
|----------------------|------------|------------|----------------------------|
| HW Version           | SW Version | S/N        | Performed Test Item        |
| A                    | 2.27       | RQ3005X7GH | RF conducted measurement   |
|                      |            | CQ300000QJ | Radiated Spurious Emission |
|                      |            | CQ30000211 | AC Conducted Emission      |



| Accessory List |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| AC Adapter     | Model Name: UCH12                                                               |
|                | S/N:                                                                            |
|                | VB17W34100228 (for radiated emission)<br>VB17W34100256 (for conducted emission) |
| Earphone 1     | Model Name: MH410c                                                              |
|                | S/N: N/A                                                                        |
| USB Cable      | Model Name: UCB20                                                               |
|                | S/N: N/A                                                                        |

**Note:**

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test.
3. For other wireless features of this EUT, test report will be issued separately.

## 1.4 Modification of EUT

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

## 1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                           |                                                                                                                                                                  |         |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                                                       |         |
| <b>Test Site Location</b> | 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 |         |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                          |         |
|                           | TH05-HY                                                                                                                                                          | CO05-HY |

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

|                           |                                                                                                                                        |  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                             |  |
| <b>Test Site Location</b> | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |  |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                |  |
|                           | 03CH11-HY                                                                                                                              |  |

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

## 1.6 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 v01r04.
- ♦ 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

- a. 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: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 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        |
|                                      | 38*             | 5190        | 46*     | 5230        |
|                                      | 40              | 5200        | 48      | 5240        |
|                                      | 42 <sup>#</sup> | 5210        |         |             |

| Frequency Band                        | Channel         | Freq. (MHz) | Channel | Freq. (MHz) |
|---------------------------------------|-----------------|-------------|---------|-------------|
| 5250-5350 MHz<br>Band 2<br>(U-NII-2A) | 52              | 5260        | 60      | 5300        |
|                                       | 54*             | 5270        | 62*     | 5310        |
|                                       | 56              | 5280        | 64      | 5320        |
|                                       | 58 <sup>#</sup> | 5290        |         |             |

| Frequency Band                        | Channel          | Freq. (MHz) | Channel | Freq. (MHz) |
|---------------------------------------|------------------|-------------|---------|-------------|
| 5470-5725 MHz<br>Band 3<br>(U-NII-2C) | 100              | 5500        | 112     | 5560        |
|                                       | 102*             | 5510        | 116     | 5580        |
|                                       | 104              | 5520        | 132     | 5660        |
|                                       | 106 <sup>#</sup> | 5530        | 134*    | 5670        |
|                                       | 108              | 5540        | 136     | 5680        |
|                                       | 110*             | 5550        | 140     | 5700        |

| Frequency Band | Channel          | Freq. (MHz) | Channel | Freq. (MHz) |
|----------------|------------------|-------------|---------|-------------|
| TDWR Channel   | 118*             | 5590        | 124     | 5620        |
|                | 120              | 5600        | 126*    | 5630        |
|                | 122 <sup>#</sup> | 5610        | 128     | 5640        |

| Frequency Band   | Channel          | Freq. (MHz) | Channel | Freq. (MHz) |
|------------------|------------------|-------------|---------|-------------|
| Straddle Channel | 138 <sup>#</sup> | 5690        | 144     | 5720        |
|                  | 142*             | 5710        |         |             |

**Note:**

1. The above Frequency and Channel in "\*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "<sup>#</sup>" were 802.11ac VHT80.

## 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.

For radiated spurious emission test cases, the 802.11n mode is covered by 802.11ac mode during preliminary tests as below.

| Modulation     | Data Rate |
|----------------|-----------|
| 802.11a        | 6 Mbps    |
| 802.11n HT20   | MCS0      |
| 802.11n HT40   | MCS0      |
| 802.11ac VHT20 | MCS0      |
| 802.11ac VHT40 | MCS0      |
| 802.11ac VHT80 | MCS0      |

| Test Cases            |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| AC Conducted Emission | Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Earphone 1 + Battery + USB Cable<br>(Charging from Adapter) |



| 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                     |
| Straddle |        | -                      | -                       | 144                     |

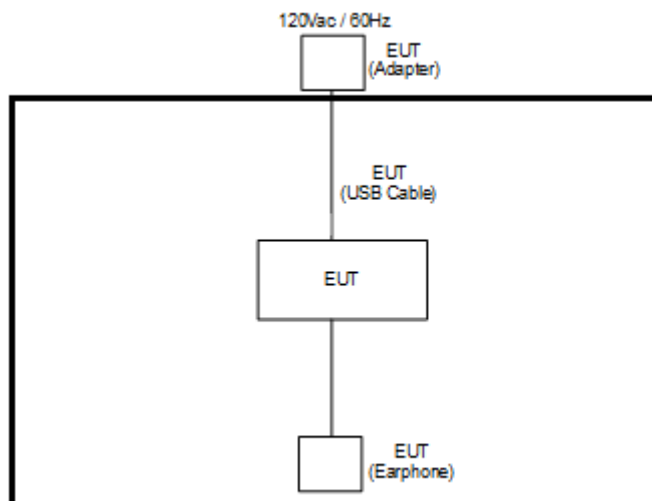
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT20         | 802.11ac VHT20          | 802.11ac VHT20          |
| L        | Low    | 36                     | 52                      | 100                     |
| M        | Middle | 44                     | 60                      | 116                     |
| H        | High   | 48                     | 64                      | 140                     |
| Straddle |        | -                      | -                       | 144                     |

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT40         | 802.11ac VHT40          | 802.11ac VHT40          |
| L        | Low    | 38                     | 54                      | 102                     |
| M        | Middle | -                      | -                       | 110                     |
| H        | High   | 46                     | 62                      | 134                     |
| Straddle |        | -                      | -                       | 142                     |

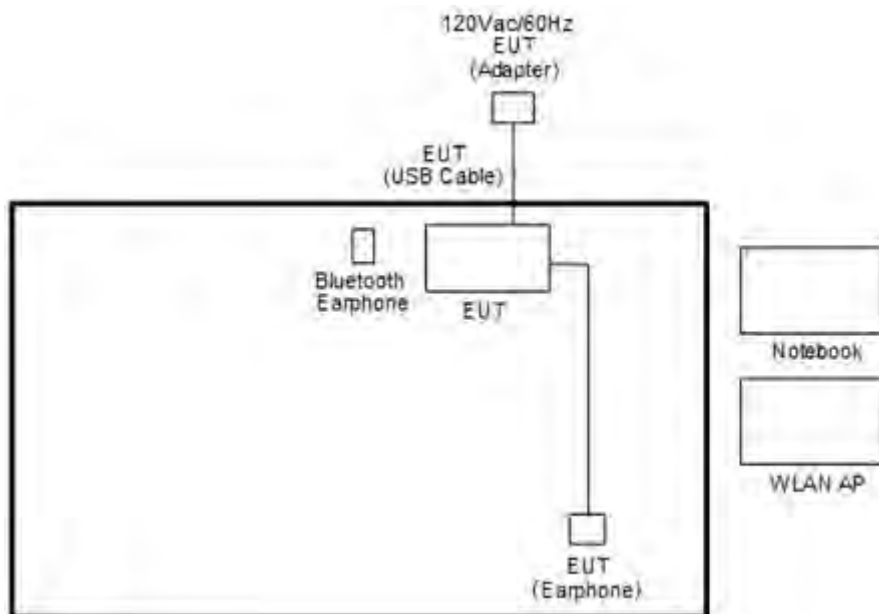
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80          |
| L        | Low    | -                      | -                       | 106                     |
| M        | Middle | 42                     | 58                      | -                       |
| H        | High   | -                      | -                       | -                       |
| Straddle |        | -                      | -                       | 138                     |

## 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.   | Bluetooth Earphone | Sony       | SBH20          | PY7-RD0010                                   | N/A        | N/A                                                        |
| 2.   | WLAN AP            | ASUS       | RT-AC66U       | MSQ-RTAC66U                                  | N/A        | Unshielded, 1.8 m                                          |
| 3.   | Notebook           | DELL       | Latitude E6320 | FCC DoC/<br>Contains FCC ID:<br>QDS-BRCM1054 | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 4.   | SD Card            | SanDisk    | MicroSD HC     | FCC DoC                                      | N/A        | N/A                                                        |

## 2.5 EUT Operation Test Setup

The RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

## 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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

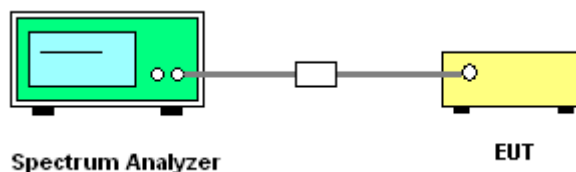
##### 3.1.2 Measuring Instruments

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 v01r04. 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)  $\geq 3 * RBW$ .
8. Measure and record the results in the test report.

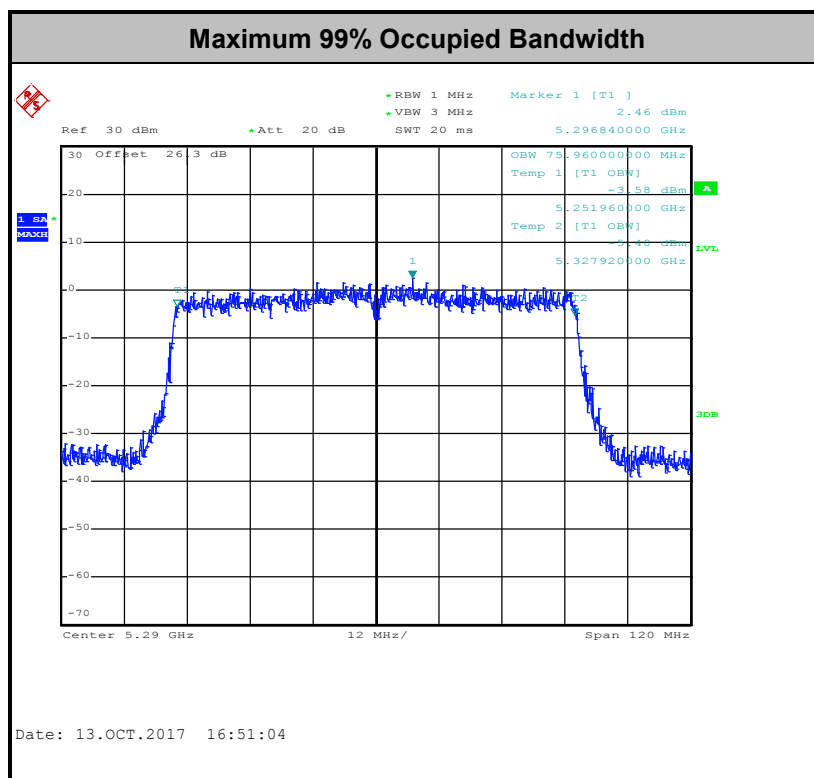
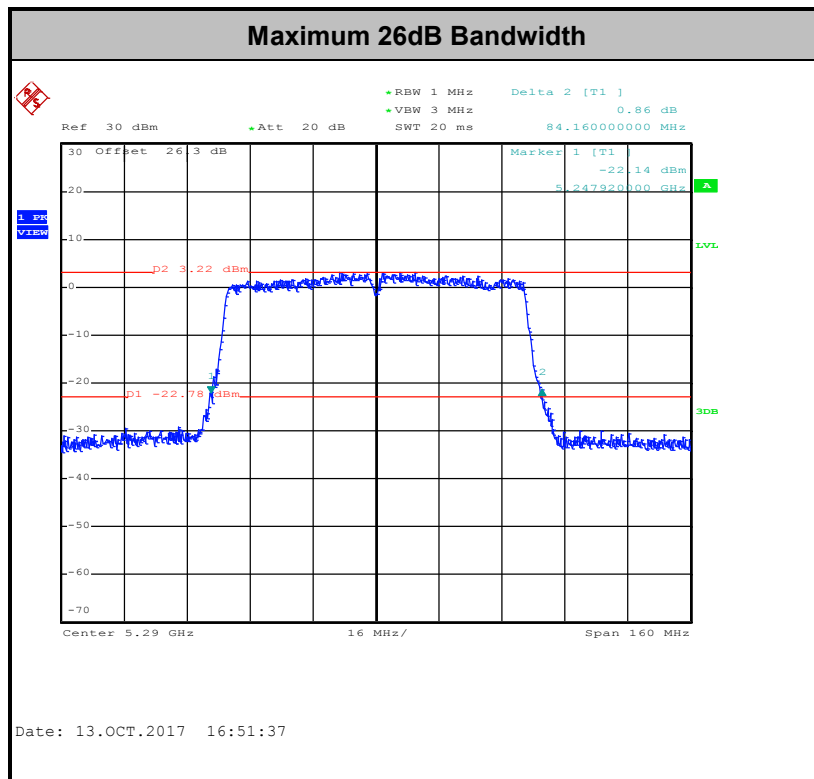
##### 3.1.4 Test Setup





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

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

#### <FCC 14-30 CFR 15.407>

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.

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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04. If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

### 3.2.2 Measuring Instruments

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

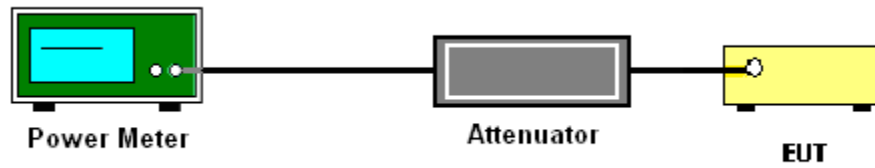
### 3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

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



### 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**

**<FCC 14-30 CFR 15.407>**

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.

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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

#### **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 v01r04.

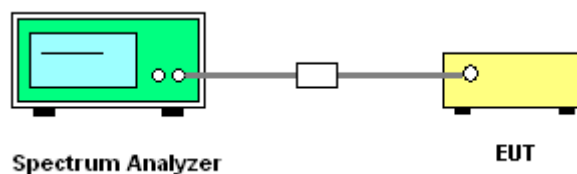
Section F) Maximum power spectral density.

#### # 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 v01r04.
  - 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.

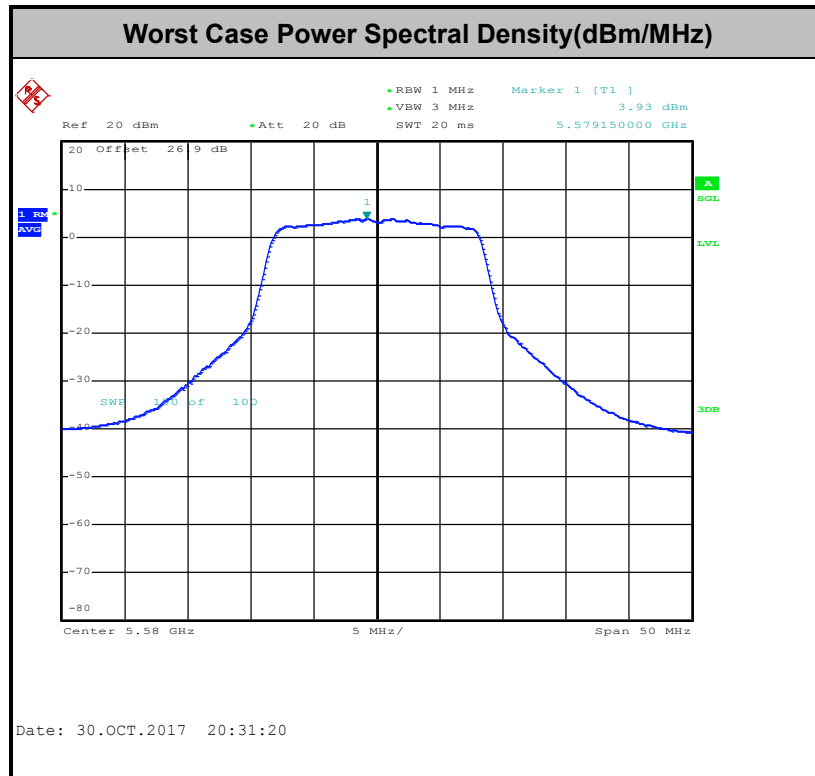
### 3.3.4 Test Setup





### 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 is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

#### 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 shall comply with the general field strength limits 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 D02 v01r04 G)2)c)

- (i) Sections 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.<sup>3</sup>
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.<sup>4</sup>

**Note 3:** An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

**Note 4:** Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

### 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 v01r04.

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  $\geq$  3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

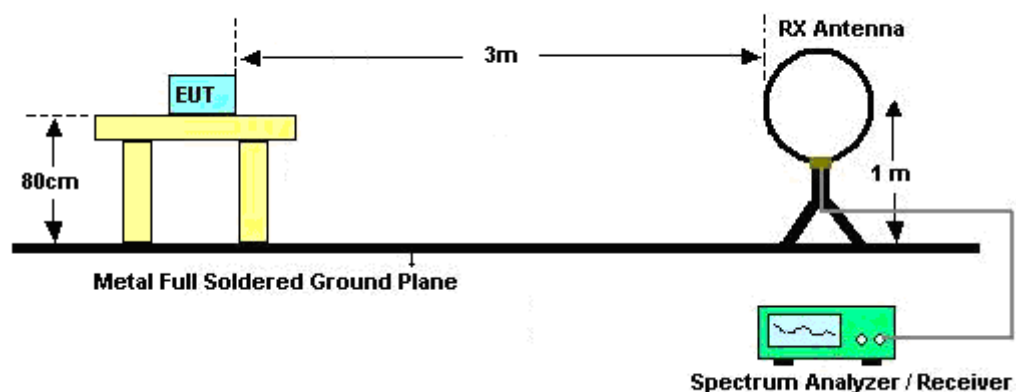
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW  $\geq 1/T$ , 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.

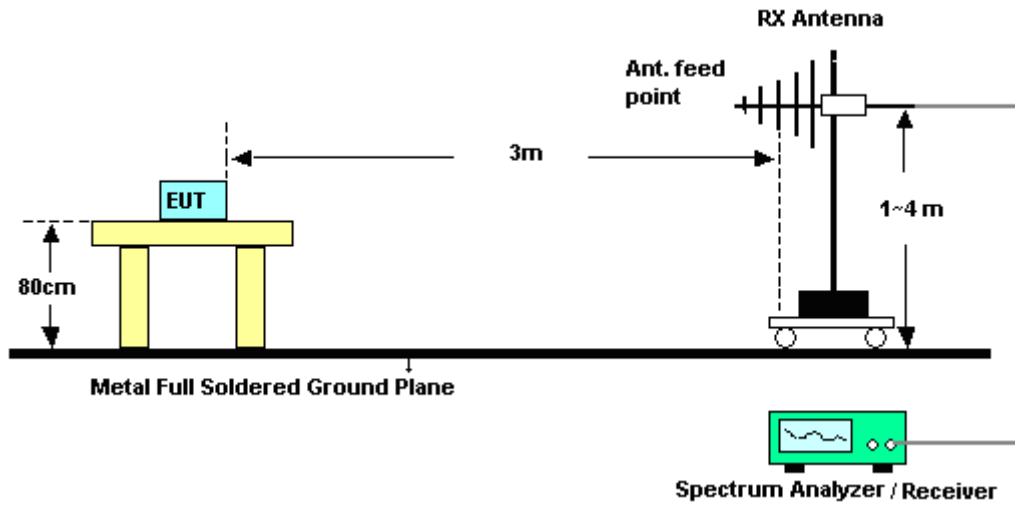
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

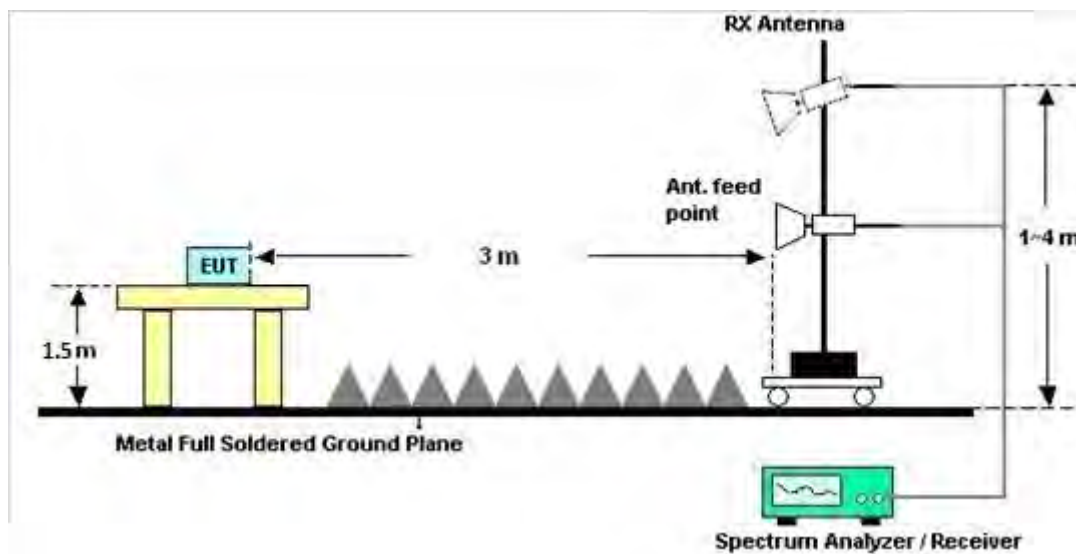
**For radiated emissions below 30MHz**



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 was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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

Please refer to Appendix C and D.

### **3.4.7 Duty Cycle**

Please refer to Appendix E.

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

Please refer to Appendix C and D.

### 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.

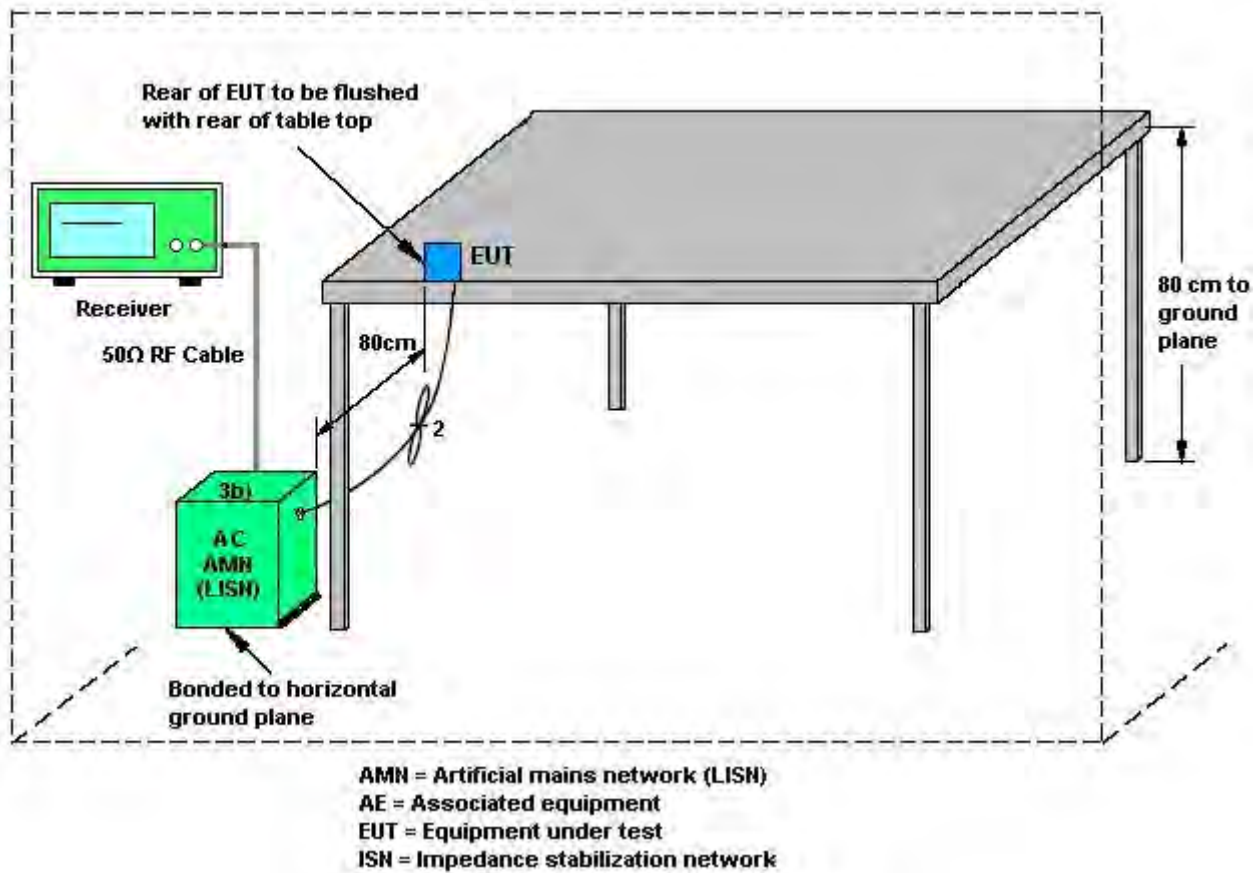
#### 3.5.2 Measuring Instruments

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

Please refer to Appendix B.



## **3.6 Automatically Discontinue Transmission**

### **3.6.1 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.

### **3.6.2 Measuring Instruments**

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

### **3.6.3 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.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

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.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.7.3 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                 | 1240001         | N/A                           | Sep. 07, 2017    | Sep. 25, 2017 ~ Oct. 20, 2017 | Sep. 06, 2018 | Conducted (TH05-HY)   |
| Power Sensor         | Anritsu         | MA2411B                 | 1207349         | 300MHz~40GHz                  | Sep. 07, 2017    | Sep. 25, 2017 ~ Oct. 20, 2017 | Sep. 06, 2018 | Conducted (TH05-HY)   |
| Spectrum Analyzer    | Rohde & Schwarz | FSP30                   | 101067          | 9kHz ~ 30GHz                  | Nov. 17, 2016    | Sep. 25, 2017 ~ Oct. 20, 2017 | Nov. 16, 2017 | Conducted (TH05-HY)   |
| Hygrometer           | TECEPEL         | DTM-303B                | TP157151        | N/A                           | Mar. 20, 2017    | Sep. 25, 2017 ~ Oct. 20, 2017 | Mar. 19, 2018 | Conducted (TH05-HY)   |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 104            | MY84209521      | 1GHz~26GHz                    | Dec. 02, 2016    | Sep. 25, 2017 ~ Oct. 20, 2017 | Dec. 01, 2017 | Conducted (TH05-HY)   |
| Temperature Chamber  | ESPEC           | SH-641                  | 92013720        | -40℃ ~90℃                     | Aug. 28, 2017    | Sep. 25, 2017 ~ Oct. 20, 2017 | Aug. 27, 2018 | Conducted (TH05-HY)   |
| AC Power Source      | ChainTek        | APC-1000W               | N/A             | N/A                           | N/A              | Oct. 14, 2017                 | N/A           | Conduction (CO05-HY)  |
| EMI Test Receiver    | Rohde & Schwarz | ESCI 7                  | 100724          | 9kHz~7GHz                     | Sep. 20, 2017    | Oct. 14, 2017                 | Sep. 19, 2018 | Conduction (CO05-HY)  |
| Hygrometer           | Testo           | 608-H1                  | 34913912        | N/A                           | Mar. 20, 2017    | Oct. 14, 2017                 | Mar. 19, 2018 | Conduction (CO05-HY)  |
| LISN                 | Rohde & Schwarz | ENV216                  | 100080          | 9kHz~30MHz                    | Nov. 29, 2016    | Oct. 14, 2017                 | Nov. 28, 2017 | Conduction (CO05-HY)  |
| LF Cable             | HUBER + SUHNER  | RG-214/U                | LF01            | N/A                           | Jan. 05, 2017    | Oct. 14, 2017                 | Jan. 04, 2018 | Conduction (CO05-HY)  |
| Test Software        | N/A             | EMC32                   | 8.40.0          | N/A                           | N/A              | Oct. 14, 2017                 | N/A           | Conduction (CO05-HY)  |
| Loop Antenna         | Rohde & Schwarz | HFH2-Z2                 | 100488          | 9 kHz~30 MHz                  | Oct. 20, 2016    | Sep. 27, 2017 ~ Sep. 29, 2017 | Oct. 19, 2018 | Radiation (03CH11-HY) |
| Bilog Antenna        | TESEQ           | CBL 6111D&N-6-06        | 35414&AT-N 0602 | 30MHz~1GHz                    | Oct. 15, 2016    | Sep. 27, 2017 ~ Sep. 29, 2017 | Oct. 14, 2017 | Radiation (03CH11-HY) |
| Horn Antenna         | SCHWARZBECK     | BBHA 9120 D             | 9120D-1326      | 1GHz ~ 18GHz                  | Oct. 07, 2016    | Sep. 27, 2017 ~ Sep. 29, 2017 | Oct. 06, 2017 | Radiation (03CH11-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK     | BBHA 9170               | BBHA917058 4    | 18GHz- 40GHz                  | Nov. 08, 2016    | Sep. 27, 2017 ~ Sep. 29, 2017 | Nov. 07, 2017 | Radiation (03CH11-HY) |
| Spectrum Analyzer    | Keysight        | N9010A                  | MY54200486      | 10Hz ~ 44GHz                  | Oct. 12, 2016    | Sep. 27, 2017 ~ Sep. 29, 2017 | Oct. 11, 2017 | Radiation (03CH11-HY) |
| EMI Test Receiver    | Agilent         | N9038A(MXE)             | MY53290053      | 20Hz to 26.5GHz               | Jan. 12, 2017    | Sep. 27, 2017 ~ Sep. 29, 2017 | Jan. 11, 2018 | Radiation (03CH11-HY) |
| Amplifier            | MITEQ           | TTA1840-35-H G          | 1871923         | 18GHz~40GHz, VSWR : 2.5:1 max | Jul. 18, 2017    | Sep. 27, 2017 ~ Sep. 29, 2017 | Jul. 17, 2018 | Radiation (03CH11-HY) |
| Amplifier            | SONOMA          | 310N                    | 187312          | 9kHz~1GHz                     | Nov. 10, 2016    | Sep. 27, 2017 ~ Sep. 29, 2017 | Nov. 09, 2017 | Radiation (03CH11-HY) |
| Preamplifier         | MITEQ           | AMF-7D-0010 1800-30-10P | 1902247         | 1GHz~18GHz                    | Jun. 23, 2017    | Sep. 27, 2017 ~ Sep. 29, 2017 | Jun. 22, 2018 | Radiation (03CH11-HY) |
| Preamplifier         | Keysight        | 83017A                  | MY53270080      | 1GHz~26.5GHz                  | Nov. 10, 2016    | Sep. 27, 2017 ~ Sep. 29, 2017 | Nov. 09, 2017 | Radiation (03CH11-HY) |



| Instrument    | Manufacturer      | Model No.                            | Serial No.                             | Characteristics                  | Calibration Date | Test Date                        | Due Date      | Remark                   |
|---------------|-------------------|--------------------------------------|----------------------------------------|----------------------------------|------------------|----------------------------------|---------------|--------------------------|
| Hygrometer    | TECPEL            | DTM-303B                             | TP140349                               | N/A                              | Nov. 14, 2016    | Sep. 27, 2017 ~<br>Sep. 29, 2017 | Nov. 13, 2017 | Radiation<br>(03CH11-HY) |
| RF Cable      | HUBER +<br>SUHNER | SUCOFLEX<br>104                      | MY24958/4,<br>MY28653/4,<br>MY9839/4PE | 26GHz~40GHz                      | Jan. 10, 2017    | Sep. 27, 2017 ~<br>Sep. 29, 2017 | Jan. 09, 2018 | Radiation<br>(03CH11-HY) |
| RF Cable      | HUBER +<br>SUHNER | SUCOFLEX<br>104                      | MY24958/4,<br>MY28653/4,<br>MY9839/4PE | 1GHz~26GHz                       | Jan. 10, 2017    | Sep. 27, 2017 ~<br>Sep. 29, 2017 | Jan. 09, 2018 | Radiation<br>(03CH11-HY) |
| RF Cable      | HUBER +<br>SUHNER | SUCOFLEX<br>104                      | MY24958/4,<br>MY28653/4,<br>MY9839/4PE | 30MHz~1GHz                       | Jan. 10, 2017    | Sep. 27, 2017 ~<br>Sep. 29, 2017 | Jan. 09, 2018 | Radiation<br>(03CH11-HY) |
| Controller    | EMEC              | EM 1000                              | N/A                                    | Control Turn<br>table & Ant Mast | N/A              | Sep. 27, 2017 ~<br>Sep. 29, 2017 | N/A           | Radiation<br>(03CH11-HY) |
| Antenna Mast  | EMEC              | AM-BS-4500-B                         | N/A                                    | 1~4m                             | N/A              | Sep. 27, 2017 ~<br>Sep. 29, 2017 | N/A           | Radiation<br>(03CH11-HY) |
| Turn Table    | EMEC              | TT 2000                              | N/A                                    | 0~360 Degree                     | N/A              | Sep. 27, 2017 ~<br>Sep. 29, 2017 | N/A           | Radiation<br>(03CH11-HY) |
| Test Software | Audix             | E3                                   | 6.2009-8-24                            | N/A                              | N/A              | Sep. 27, 2017 ~<br>Sep. 29, 2017 | N/A           | Radiation<br>(03CH11-HY) |
| Filter        | Wainwright        | WLKS1200-12<br>SS                    | SN2                                    | 1.2G Low Pass                    | Mar. 24, 2017    | Sep. 27, 2017 ~<br>Sep. 29, 2017 | Mar. 23, 2018 | Radiation<br>(03CH11-HY) |
| Filter        | Wainwright        | WHKX12-2700<br>-3000-18000-6<br>0SS  | SN2                                    | 3G High Pass                     | Sep. 18, 2017    | Sep. 27, 2017 ~<br>Sep. 29, 2017 | Sep. 17, 2018 | Radiation<br>(03CH11-HY) |
| Filter        | Woken             | WHKX8-5272.<br>5-6750-18000-<br>40ST | SN2                                    | 6.75G Highpass                   | Mar. 22, 2017    | Sep. 27, 2017 ~<br>Sep. 29, 2017 | Mar. 21, 2018 | Radiation<br>(03CH11-HY) |

## 5 Uncertainty of Evaluation

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 2.70 |
|----------------------------------------------------------------------------|------|

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.20 |
|----------------------------------------------------------------------------|------|

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.50 |
|----------------------------------------------------------------------------|------|

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.20 |
|----------------------------------------------------------------------------|------|

**Appendix A. Test Result of Conducted Test Items**

|                |                       |                    |       |    |
|----------------|-----------------------|--------------------|-------|----|
| Test Engineer: | AC Chang /Aking chang | Temperature:       | 21~25 | °C |
| Test Date:     | 2017/9/25~2017/11/02  | 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        | 17.45               | 25.55                 | -                                  | 22.42                             |  |  |
| 11a    | 6Mbps     | 1   | 44  | 5220        | 17.40               | 25.20                 | -                                  | 22.41                             |  |  |
| 11a    | 6Mbps     | 1   | 48  | 5240        | 17.55               | 26.05                 | -                                  | 22.44                             |  |  |
| VHT20  | MCS0      | 1   | 36  | 5180        | 18.55               | 26.40                 | -                                  | 22.68                             |  |  |
| VHT20  | MCS0      | 1   | 44  | 5220        | 18.70               | 26.35                 | -                                  | 22.72                             |  |  |
| VHT20  | MCS0      | 1   | 48  | 5240        | 18.65               | 26.10                 | -                                  | 22.71                             |  |  |
| VHT40  | MCS0      | 1   | 38  | 5190        | 36.70               | 42.03                 | -                                  | 23.01                             |  |  |
| VHT40  | MCS0      | 1   | 46  | 5230        | 36.60               | 41.94                 | -                                  | 23.01                             |  |  |
| VHT80  | MCS0      | 1   | 42  | 5210        | 75.84               | 83.52                 | -                                  | 23.01                             |  |  |

**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        | 0.23             | 14.94                         | 24.00                           | -2.20    |  | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.23             | 14.88                         | 24.00                           | -2.20    |  | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.23             | 14.84                         | 24.00                           | -2.20    |  | Pass      |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.25             | 13.85                         | 24.00                           | -2.20    |  | Pass      |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.25             | 13.65                         | 24.00                           | -2.20    |  | Pass      |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.25             | 13.67                         | 24.00                           | -2.20    |  | Pass      |
| HT40       | MCS0      | 1   | 38  | 5190        | 0.40             | 12.65                         | 24.00                           | -2.20    |  | Pass      |
| HT40       | MCS0      | 1   | 46  | 5230        | 0.40             | 12.63                         | 24.00                           | -2.20    |  | Pass      |
| VHT20      | MCS0      | 1   | 36  | 5180        | 0.22             | 13.92                         | 24.00                           | -2.20    |  | Pass      |
| VHT20      | MCS0      | 1   | 44  | 5220        | 0.22             | 13.74                         | 24.00                           | -2.20    |  | Pass      |
| VHT20      | MCS0      | 1   | 48  | 5240        | 0.22             | 13.71                         | 24.00                           | -2.20    |  | Pass      |
| VHT40      | MCS0      | 1   | 38  | 5190        | 0.49             | 12.73                         | 24.00                           | -2.20    |  | Pass      |
| VHT40      | MCS0      | 1   | 46  | 5230        | 0.49             | 12.71                         | 24.00                           | -2.20    |  | Pass      |
| VHT80      | MCS0      | 1   | 42  | 5210        | 0.46             | 11.56                         | 24.00                           | -2.20    |  | 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        | 0.23             | 2.81                            | 11.00                       | -2.20    |   | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.23             | 3.23                            | 11.00                       | -2.20    |   | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.23             | 3.55                            | 11.00                       | -2.20    |   | Pass      |
| VHT20      | MCS0      | 1   | 36  | 5180        | 0.22             | 2.86                            | 11.00                       | -2.20    |   | Pass      |
| VHT20      | MCS0      | 1   | 44  | 5220        | 0.22             | 2.31                            | 11.00                       | -2.20    |   | Pass      |
| VHT20      | MCS0      | 1   | 48  | 5240        | 0.22             | 2.34                            | 11.00                       | -2.20    |   | Pass      |
| VHT40      | MCS0      | 1   | 38  | 5190        | 0.49             | -1.16                           | 11.00                       | -2.20    |   | Pass      |
| VHT40      | MCS0      | 1   | 46  | 5230        | 0.49             | -1.23                           | 11.00                       | -2.20    |   | Pass      |
| VHT80      | MCS0      | 1   | 42  | 5210        | 0.46             | -5.85                           | 11.00                       | -2.20    |   | 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        | 17.50               | 26.00                 | 23.43                              | 29.43                             | 23.98                                |      |
| 11a     | 6M bps    | 1   | 60  | 5300        | 17.55               | 26.15                 | 23.44                              | 29.44                             | 23.98                                |      |
| 11a     | 6M bps    | 1   | 64  | 5320        | 17.60               | 25.50                 | 23.46                              | 29.46                             | 23.98                                |      |
| VHT20   | MCS 0     | 1   | 52  | 5260        | 18.70               | 25.45                 | 23.72                              | 29.72                             | 23.98                                |      |
| VHT20   | MCS 0     | 1   | 60  | 5300        | 18.60               | 26.75                 | 23.70                              | 29.70                             | 23.98                                |      |
| VHT20   | MCS 0     | 1   | 64  | 5320        | 18.70               | 26.40                 | 23.72                              | 29.72                             | 23.98                                |      |
| VHT40   | MCS 0     | 1   | 54  | 5270        | 36.50               | 42.12                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT40   | MCS 0     | 1   | 62  | 5310        | 36.60               | 42.03                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT80   | MCS 0     | 1   | 58  | 5290        | 75.96               | 84.16                 | 23.98                              | 30.00                             | 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        | 0.23             | 14.70                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| 11a         | 6M bps    | 1   | 60  | 5300        | 0.23             | 14.67                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| 11a         | 6M bps    | 1   | 64  | 5320        | 0.23             | 14.75                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 52  | 5260        | 0.25             | 13.86                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 60  | 5300        | 0.25             | 13.81                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 64  | 5320        | 0.25             | 13.89                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| HT40        | MCS 0     | 1   | 54  | 5270        | 0.40             | 12.50                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| HT40        | MCS 0     | 1   | 62  | 5310        | 0.40             | 12.50                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| VHT20       | MCS 0     | 1   | 52  | 5260        | 0.22             | 13.93                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| VHT20       | MCS 0     | 1   | 60  | 5300        | 0.22             | 13.90                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| VHT20       | MCS 0     | 1   | 64  | 5320        | 0.22             | 13.98                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| VHT40       | MCS 0     | 1   | 54  | 5270        | 0.49             | 12.56                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| VHT40       | MCS 0     | 1   | 62  | 5310        | 0.49             | 12.59                         | 23.98                           | -2.60    | 26.99                  | Pass      |
| VHT80       | MCS 0     | 1   | 58  | 5290        | 0.46             | 11.53                         | 23.98                           | -2.60    | 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        | 0.23             | 3.07                            | 11.00                       | -2.60    |  | Pass      |
| 11a     | 6M bps    | 1   | 60  | 5300        | 0.23             | 3.19                            | 11.00                       | -2.60    |  | Pass      |
| 11a     | 6M bps    | 1   | 64  | 5320        | 0.23             | 3.38                            | 11.00                       | -2.60    |  | Pass      |
| VHT20   | MCS 0     | 1   | 52  | 5260        | 0.22             | 2.41                            | 11.00                       | -2.60    |  | Pass      |
| VHT20   | MCS 0     | 1   | 60  | 5300        | 0.22             | 1.98                            | 11.00                       | -2.60    |  | Pass      |
| VHT20   | MCS 0     | 1   | 64  | 5320        | 0.22             | 2.01                            | 11.00                       | -2.60    |  | Pass      |
| VHT40   | MCS 0     | 1   | 54  | 5270        | 0.49             | -1.84                           | 11.00                       | -2.60    |  | Pass      |
| VHT40   | MCS 0     | 1   | 62  | 5310        | 0.49             | -2.00                           | 11.00                       | -2.60    |  | Pass      |
| VHT80   | MCS 0     | 1   | 58  | 5290        | 0.46             | -6.19                           | 11.00                       | -2.60    |  | 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) | 6dB Bandwidth for Straddle Channel (MHz) |
| 11a      | 6M bps    | 1   | 100 | 5500        | 17.65               | 26.00                 | 23.47                              | 29.47                             | 23.98                                | ----                                     |
| 11a      | 6M bps    | 1   | 116 | 5580        | 17.60               | 26.10                 | 23.46                              | 29.46                             | 23.98                                | ----                                     |
| 11a      | 6M bps    | 1   | 140 | 5700        | 17.55               | 26.75                 | 23.44                              | 29.44                             | 23.98                                | ----                                     |
| 11a      | 6Mbps     | 1   | 144 | 5720        | 17.50               | 25.90                 | 23.43                              | 29.43                             | 23.98                                | ----                                     |
| VHT20    | MCS 0     | 1   | 100 | 5500        | 18.75               | 26.55                 | 23.73                              | 29.73                             | 23.98                                | ----                                     |
| VHT20    | MCS 0     | 1   | 116 | 5580        | 18.70               | 27.20                 | 23.72                              | 29.72                             | 23.98                                | ----                                     |
| VHT20    | MCS 0     | 1   | 140 | 5700        | 18.90               | 28.50                 | 23.76                              | 29.76                             | 23.98                                | ----                                     |
| VHT20    | MCS0      | 1   | 144 | 5720        | 18.65               | 26.80                 | 23.71                              | 29.71                             | 23.98                                | ----                                     |
| VHT40    | MCS 0     | 1   | 102 | 5510        | 36.70               | 42.12                 | 23.98                              | 30.00                             | 23.98                                | ----                                     |
| VHT40    | MCS 0     | 1   | 110 | 5550        | 36.40               | 41.76                 | 23.98                              | 30.00                             | 23.98                                | ----                                     |
| VHT40    | MCS 0     | 1   | 134 | 5670        | 36.50               | 41.94                 | 23.98                              | 30.00                             | 23.98                                | ----                                     |
| VHT40    | MCS0      | 1   | 142 | 5710        | 36.60               | 41.76                 | 23.98                              | 30.00                             | 23.98                                | ----                                     |
| VHT80    | MCS 0     | 1   | 106 | 5530        | 75.72               | 84.00                 | 23.98                              | 30.00                             | 23.98                                | ----                                     |
| VHT80    | MCS 0     | 1   | 122 | 5610        | 75.72               | 82.72                 | 23.98                              | 30.00                             | 23.98                                | ----                                     |
| VHT80    | MCS0      | 1   | 138 | 5690        | 75.84               | 83.70                 | 23.98                              | 30.00                             | 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        | 0.23             | 14.94                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 116 | 5580        | 0.23             | 14.81                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 140 | 5700        | 0.23             | 13.86                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 144 | 5720        | 0.23             | 13.78                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 100 | 5500        | 0.25             | 13.85                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 116 | 5580        | 0.25             | 13.70                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 140 | 5700        | 0.25             | 13.77                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 144 | 5720        | 0.25             | 13.76                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| HT40         | MCS 0     | 1   | 102 | 5510        | 0.40             | 12.82                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| HT40         | MCS 0     | 1   | 110 | 5550        | 0.40             | 12.79                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| HT40         | MCS 0     | 1   | 134 | 5670        | 0.40             | 12.71                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| HT40         | MCS 0     | 1   | 142 | 5710        | 0.40             | 12.66                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT20        | MCS 0     | 1   | 100 | 5500        | 0.22             | 13.94                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT20        | MCS 0     | 1   | 116 | 5580        | 0.22             | 13.76                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT20        | MCS 0     | 1   | 140 | 5700        | 0.22             | 13.87                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT20        | MCS 0     | 1   | 144 | 5720        | 0.22             | 13.83                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT40        | MCS 0     | 1   | 102 | 5510        | 0.49             | 12.87                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT40        | MCS 0     | 1   | 110 | 5550        | 0.49             | 12.80                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT40        | MCS 0     | 1   | 134 | 5670        | 0.49             | 12.74                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT40        | MCS 0     | 1   | 142 | 5710        | 0.49             | 12.75                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT80        | MCS 0     | 1   | 106 | 5530        | 0.46             | 11.68                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT80        | MCS 0     | 1   | 122 | 5610        | 0.46             | 11.70                         | 23.98                           | -2.40    | 26.99                  | Pass      |
| VHT80        | MCS 0     | 1   | 138 | 5690        | 0.46             | 11.71                         | 23.98                           | -2.40    | 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        | 0.23             | 3.94                            | 11.00                       | -2.40    |  | Pass      |
| 11a      | 6M bps    | 1   | 116 | 5580        | 0.23             | 4.16                            | 11.00                       | -2.40    |  | Pass      |
| 11a      | 6M bps    | 1   | 140 | 5700        | 0.23             | 3.06                            | 11.00                       | -2.40    |  | Pass      |
| 11a      | 6Mbps     | 1   | 144 | 5720        | 0.23             | 2.82                            | 11.00                       | -2.40    |  | Pass      |
| VHT20    | MCS 0     | 1   | 100 | 5500        | 0.22             | 2.92                            | 11.00                       | -2.40    |  | Pass      |
| VHT20    | MCS 0     | 1   | 116 | 5580        | 0.22             | 2.91                            | 11.00                       | -2.40    |  | Pass      |
| VHT20    | MCS 0     | 1   | 140 | 5700        | 0.22             | 2.75                            | 11.00                       | -2.40    |  | Pass      |
| VHT20    | MCS0      | 1   | 144 | 5720        | 0.22             | 2.28                            | 11.00                       | -2.40    |  | Pass      |
| VHT40    | MCS 0     | 1   | 102 | 5510        | 0.49             | -0.19                           | 11.00                       | -2.40    |  | Pass      |
| VHT40    | MCS 0     | 1   | 110 | 5550        | 0.49             | -0.40                           | 11.00                       | -2.40    |  | Pass      |
| VHT40    | MCS 0     | 1   | 134 | 5670        | 0.49             | -0.66                           | 11.00                       | -2.40    |  | Pass      |
| VHT40    | MCS0      | 1   | 142 | 5710        | 0.49             | -0.47                           | 11.00                       | -2.40    |  | Pass      |
| VHT80    | MCS 0     | 1   | 106 | 5530        | 0.46             | -6.19                           | 11.00                       | -2.40    |  | Pass      |
| VHT80    | MCS 0     | 1   | 122 | 5610        | 0.46             | -6.04                           | 11.00                       | -2.40    |  | Pass      |
| VHT80    | MCS0      | 1   | 138 | 5690        | 0.46             | -5.86                           | 11.00                       | -2.40    |  | Pass      |



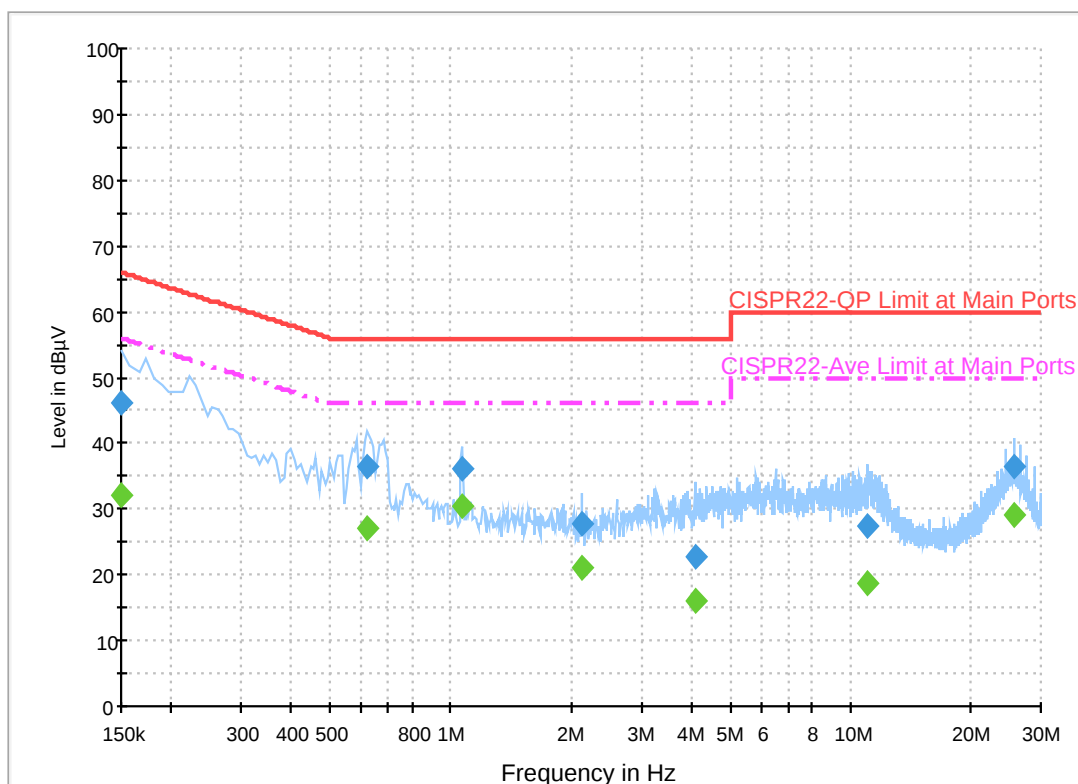
## Appendix B. AC Conducted Emission Test Results

|                 |          |                     |          |
|-----------------|----------|---------------------|----------|
| Test Engineer : | Blue Lan | Temperature :       | 25 ~ 26℃ |
|                 |          | Relative Humidity : | 55 ~ 56% |

## EUT Information

Report NO : 762713-01  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

ENV216 Auto Test FCC Power Bar - L



## Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 46.2             | Off    | L1   | 19.6       | 19.8        | 66.0         |
| 0.622000        | 36.6             | Off    | L1   | 19.6       | 19.4        | 56.0         |
| 1.070000        | 36.2             | Off    | L1   | 19.6       | 19.8        | 56.0         |
| 2.134000        | 27.8             | Off    | L1   | 18.2       | 28.2        | 56.0         |
| 4.086000        | 22.6             | Off    | L1   | 19.7       | 33.4        | 56.0         |
| 10.998000       | 27.4             | Off    | L1   | 20.1       | 32.6        | 60.0         |
| 25.598000       | 36.5             | Off    | L1   | 20.8       | 23.5        | 60.0         |

## Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 32.0           | Off    | L1   | 19.6       | 24.0        | 56.0         |
| 0.622000        | 27.2           | Off    | L1   | 19.6       | 18.8        | 46.0         |
| 1.070000        | 30.4           | Off    | L1   | 19.6       | 15.6        | 46.0         |
| 2.134000        | 21.0           | Off    | L1   | 18.2       | 25.0        | 46.0         |
| 4.086000        | 16.1           | Off    | L1   | 19.7       | 29.9        | 46.0         |
| 10.998000       | 18.7           | Off    | L1   | 20.1       | 31.3        | 50.0         |
| 25.598000       | 28.9           | Off    | L1   | 20.8       | 21.1        | 50.0         |

EUT Information

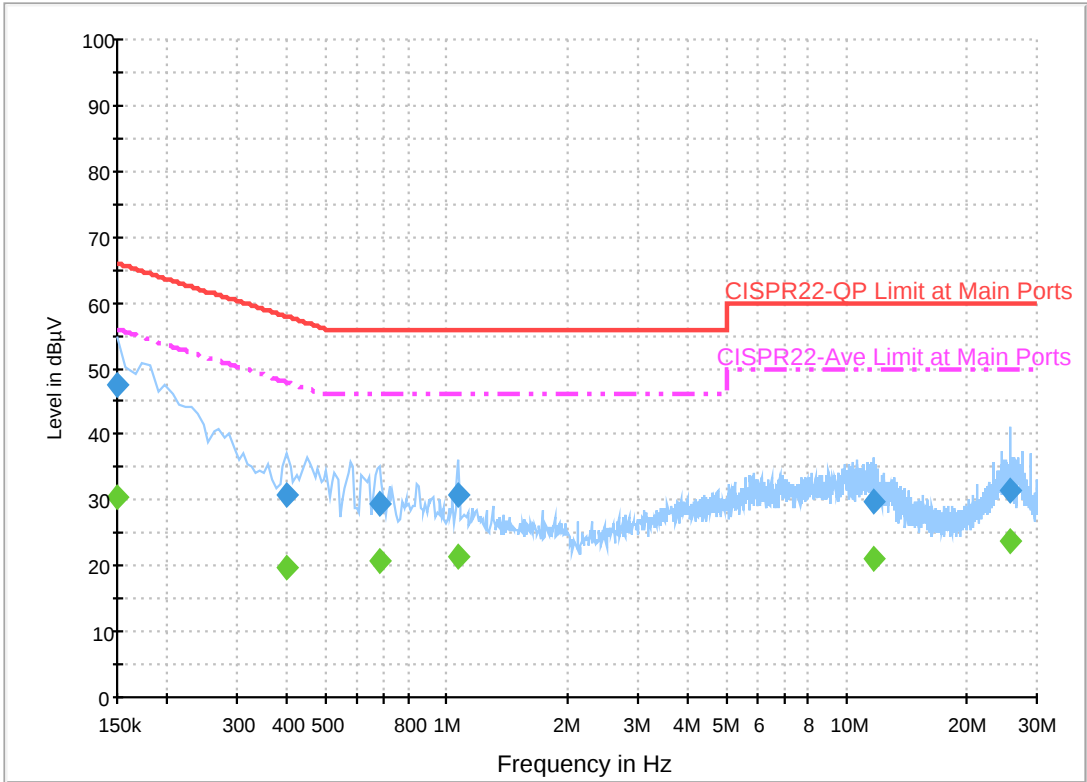
Report NO :762713-01

Test Mode :Mode 1

Test Voltage :120Vac/60Hz

Phase :Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 47.4             | Off    | N    | 19.5       | 18.6        | 66.0         |
| 0.398000        | 30.9             | Off    | N    | 19.5       | 27.0        | 57.9         |
| 0.678000        | 29.5             | Off    | N    | 19.5       | 26.5        | 56.0         |
| 1.070000        | 30.7             | Off    | N    | 19.6       | 25.3        | 56.0         |
| 11.694000       | 29.6             | Off    | N    | 20.2       | 30.4        | 60.0         |
| 25.598000       | 31.6             | Off    | N    | 21.0       | 28.4        | 60.0         |

Final Result 2

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 30.3           | Off    | N    | 19.5       | 25.7        | 56.0         |
| 0.398000        | 19.6           | Off    | N    | 19.5       | 28.3        | 47.9         |
| 0.678000        | 20.8           | Off    | N    | 19.5       | 25.2        | 46.0         |
| 1.070000        | 21.5           | Off    | N    | 19.6       | 24.5        | 46.0         |
| 11.694000       | 21.0           | Off    | N    | 20.2       | 29.0        | 50.0         |
| 25.598000       | 23.9           | Off    | N    | 21.0       | 26.1        | 50.0         |



## Appendix C. Radiated Spurious Emission

|                 |                     |                     |           |
|-----------------|---------------------|---------------------|-----------|
| Test Engineer : | Hao Hsu, and Ken Wu | Temperature :       | 24 ~ 26°C |
|                 |                     | Relative Humidity : | 50 ~ 55%  |

### Band 1 - 5150~5250MHz

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

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5137.54   | 54.35      | -19.65 | 74         | 46.3     | 32.03    | 9.05   | 33.03  | 100    | 125     | P       | H       |
|                             |      | 5149.76   | 44.7       | -9.3   | 54         | 36.63    | 32.05    | 9.05   | 33.03  | 100    | 125     | A       | H       |
|                             | *    | 5180      | 105        | -      | -          | 96.88    | 32.08    | 9.07   | 33.03  | 100    | 125     | P       | H       |
|                             | *    | 5180      | 96.93      | -      | -          | 88.81    | 32.08    | 9.07   | 33.03  | 100    | 125     | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      | 5149.5    | 50.22      | -23.78 | 74         | 42.15    | 32.05    | 9.05   | 33.03  | 377    | 334     | P       | V       |
|                             |      | 5150      | 42.96      | -11.04 | 54         | 34.89    | 32.05    | 9.05   | 33.03  | 377    | 334     | A       | V       |
|                             | *    | 5180      | 104.74     | -      | -          | 96.62    | 32.08    | 9.07   | 33.03  | 377    | 334     | P       | V       |
|                             | *    | 5180      | 96.9       | -      | -          | 88.78    | 32.08    | 9.07   | 33.03  | 377    | 334     | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 44<br>5220MHz |      | 5144.3    | 50.29      | -23.71 | 74         | 42.22    | 32.05    | 9.05   | 33.03  | 100    | 125     | P       | H       |
|                             |      | 5148.2    | 40.89      | -13.11 | 54         | 32.82    | 32.05    | 9.05   | 33.03  | 100    | 125     | A       | H       |
|                             | *    | 5220      | 105.46     | -      | -          | 97.26    | 32.12    | 9.11   | 33.03  | 100    | 125     | P       | H       |
|                             | *    | 5220      | 97.63      | -      | -          | 89.43    | 32.12    | 9.11   | 33.03  | 100    | 125     | A       | H       |
|                             |      | 5459.52   | 49.08      | -24.92 | 74         | 40.46    | 32.35    | 9.29   | 33.02  | 100    | 125     | P       | H       |
|                             |      | 5429.28   | 40.24      | -13.76 | 54         | 31.67    | 32.33    | 9.26   | 33.02  | 100    | 125     | A       | H       |
|                             |      | 5107.9    | 50.15      | -23.85 | 74         | 42.14    | 32.02    | 9.03   | 33.04  | 350    | 335     | P       | V       |
|                             |      | 5102.7    | 40.81      | -13.19 | 54         | 32.84    | 32       | 9.01   | 33.04  | 350    | 335     | A       | V       |
|                             | *    | 5220      | 104.78     | -      | -          | 96.58    | 32.12    | 9.11   | 33.03  | 350    | 335     | P       | V       |
|                             | *    | 5220      | 97.05      | -      | -          | 88.85    | 32.12    | 9.11   | 33.03  | 350    | 335     | A       | V       |
|                             |      | 5405.76   | 48.72      | -25.28 | 74         | 40.22    | 32.3     | 9.22   | 33.02  | 350    | 335     | P       | V       |
|                             |      | 5422.08   | 40.27      | -13.73 | 54         | 31.71    | 32.32    | 9.26   | 33.02  | 350    | 335     | A       | V       |



|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5089.18 | 49.06  | -24.94 | 74 | 41.09 | 32    | 9.01 | 33.04 | 103 | 127 | P | H |
|                                                  |                                                                                             | 5024.96 | 40.87  | -13.13 | 54 | 33.03 | 31.93 | 8.95 | 33.04 | 103 | 127 | A | H |
|                                                  | *                                                                                           | 5240    | 106.12 | -      | -  | 97.9  | 32.13 | 9.12 | 33.03 | 103 | 127 | P | H |
|                                                  | *                                                                                           | 5240    | 98.12  | -      | -  | 89.9  | 32.13 | 9.12 | 33.03 | 103 | 127 | A | H |
|                                                  |                                                                                             | 5378.16 | 49.88  | -24.12 | 74 | 41.42 | 32.28 | 9.2  | 33.02 | 103 | 127 | P | H |
|                                                  |                                                                                             | 5458.56 | 40.33  | -13.67 | 54 | 31.71 | 32.35 | 9.29 | 33.02 | 103 | 127 | A | H |
|                                                  |                                                                                             | 5121.94 | 49.3   | -24.7  | 74 | 41.28 | 32.02 | 9.03 | 33.03 | 370 | 335 | P | V |
|                                                  |                                                                                             | 5092.56 | 40.93  | -13.07 | 54 | 32.96 | 32    | 9.01 | 33.04 | 370 | 335 | A | V |
|                                                  | *                                                                                           | 5240    | 105.99 | -      | -  | 97.77 | 32.13 | 9.12 | 33.03 | 370 | 335 | P | V |
|                                                  | *                                                                                           | 5240    | 97.43  | -      | -  | 89.21 | 32.13 | 9.12 | 33.03 | 370 | 335 | A | V |
|                                                  |                                                                                             | 5355.12 | 48.57  | -25.43 | 74 | 40.16 | 32.25 | 9.19 | 33.03 | 370 | 335 | P | V |
|                                                  |                                                                                             | 5441.52 | 40.44  | -13.56 | 54 | 31.87 | 32.33 | 9.26 | 33.02 | 370 | 335 | 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>1           | 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                | 45.46               | -28.54                  | 74                          | 56.18                     | 38.41                         | 14.63                   | 64.07                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15540                | 45.62               | -28.38                  | 74                          | 52.07                     | 37.58                         | 17.95                   | 62.37                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10360                | 45.61               | -28.39                  | 74                          | 56.33                     | 38.41                         | 14.63                   | 64.07                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15540                | 45.02               | -28.98                  | 74                          | 51.47                     | 37.58                         | 17.95                   | 62.37                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 45.82               | -28.18                  | 74                          | 56.41                     | 38.51                         | 14.68                   | 64.09                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15660                | 44.17               | -29.83                  | 74                          | 50.53                     | 37.14                         | 18.06                   | 61.91                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10440                | 46.12               | -27.88                  | 74                          | 56.71                     | 38.51                         | 14.68                   | 64.09                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15660                | 44.85               | -29.15                  | 74                          | 51.21                     | 37.14                         | 18.06                   | 61.91                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 46.79               | -27.21                  | 74                          | 57.28                     | 38.58                         | 14.72                   | 64.1                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15720                | 45.09               | -28.91                  | 74                          | 51.42                     | 36.89                         | 18.1                    | 61.65                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10480                | 46.12               | -27.88                  | 74                          | 56.61                     | 38.58                         | 14.72                   | 64.1                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15720                | 44.24               | -29.76                  | 74                          | 50.57                     | 36.89                         | 18.1                    | 61.65                      | 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 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |      | 5147.94              | 52.3                | -21.7                   | 74                          | 44.23                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 125                     | P                       | H               |
|                                       |      | 5150                 | 43.53               | -10.47                  | 54                          | 35.46                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 125                     | A                       | H               |
|                                       | *    | 5180                 | 104.32              | -                       | -                           | 96.2                      | 32.08                         | 9.07                    | 33.03                      | 100                  | 125                     | P                       | H               |
|                                       | *    | 5180                 | 95.59               | -                       | -                           | 87.47                     | 32.08                         | 9.07                    | 33.03                      | 100                  | 125                     | A                       | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 5147.94              | 49.62               | -24.38                  | 74                          | 41.55                     | 32.05                         | 9.05                    | 33.03                      | 377                  | 334                     | P                       | V               |
|                                       |      | 5149.76              | 42                  | -12                     | 54                          | 33.93                     | 32.05                         | 9.05                    | 33.03                      | 377                  | 334                     | A                       | V               |
|                                       | *    | 5180                 | 102.96              | -                       | -                           | 94.84                     | 32.08                         | 9.07                    | 33.03                      | 377                  | 334                     | P                       | V               |
|                                       | *    | 5180                 | 95.28               | -                       | -                           | 87.16                     | 32.08                         | 9.07                    | 33.03                      | 377                  | 334                     | A                       | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |      | 5121.42              | 49.93               | -24.07                  | 74                          | 41.91                     | 32.02                         | 9.03                    | 33.03                      | 147                  | 125                     | P                       | H               |
|                                       |      | 5138.84              | 40.88               | -13.12                  | 54                          | 32.83                     | 32.03                         | 9.05                    | 33.03                      | 147                  | 125                     | A                       | H               |
|                                       | *    | 5220                 | 104.26              | -                       | -                           | 96.06                     | 32.12                         | 9.11                    | 33.03                      | 147                  | 125                     | P                       | H               |
|                                       | *    | 5220                 | 96.28               | -                       | -                           | 88.08                     | 32.12                         | 9.11                    | 33.03                      | 147                  | 125                     | A                       | H               |
|                                       |      | 5402.16              | 49.79               | -24.21                  | 74                          | 41.29                     | 32.3                          | 9.22                    | 33.02                      | 147                  | 125                     | P                       | H               |
|                                       |      | 5448.48              | 40.48               | -13.52                  | 54                          | 31.86                     | 32.35                         | 9.29                    | 33.02                      | 147                  | 125                     | A                       | H               |
|                                       |      | 5094.12              | 49.57               | -24.43                  | 74                          | 41.6                      | 32                            | 9.01                    | 33.04                      | 350                  | 335                     | P                       | V               |
|                                       |      | 5107.9               | 40.87               | -13.13                  | 54                          | 32.86                     | 32.02                         | 9.03                    | 33.04                      | 350                  | 335                     | A                       | V               |
|                                       | *    | 5220                 | 103.75              | -                       | -                           | 95.55                     | 32.12                         | 9.11                    | 33.03                      | 350                  | 335                     | P                       | V               |
|                                       | *    | 5220                 | 95.46               | -                       | -                           | 87.26                     | 32.12                         | 9.11                    | 33.03                      | 350                  | 335                     | A                       | V               |
|                                       |      | 5423.04              | 49.54               | -24.46                  | 74                          | 40.98                     | 32.32                         | 9.26                    | 33.02                      | 350                  | 335                     | P                       | V               |
|                                       |      | 5455.68              | 40.31               | -13.69                  | 54                          | 31.69                     | 32.35                         | 9.29                    | 33.02                      | 350                  | 335                     | A                       | V               |



|                                                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><br><b>VHT20</b><br><br><b>CH 48</b><br><br><b>5240MHz</b> |                                                                                             | 5040.04 | 49.56  | -24.44 | 74 | 41.68 | 31.95 | 8.97 | 33.04 | 103 | 126 | P | H |
|                                                                               |                                                                                             | 5104.52 | 40.77  | -13.23 | 54 | 32.8  | 32    | 9.01 | 33.04 | 103 | 126 | A | H |
|                                                                               | *                                                                                           | 5240    | 104.67 | -      | -  | 96.45 | 32.13 | 9.12 | 33.03 | 103 | 126 | P | H |
|                                                                               | *                                                                                           | 5240    | 96.76  | -      | -  | 88.54 | 32.13 | 9.12 | 33.03 | 103 | 126 | A | H |
|                                                                               |                                                                                             | 5391.84 | 48.55  | -25.45 | 74 | 40.09 | 32.28 | 9.2  | 33.02 | 103 | 126 | P | H |
|                                                                               |                                                                                             | 5367.12 | 40.21  | -13.79 | 54 | 31.77 | 32.27 | 9.2  | 33.03 | 103 | 126 | A | H |
|                                                                               |                                                                                             | 5115.7  | 49.89  | -24.11 | 74 | 41.88 | 32.02 | 9.03 | 33.04 | 370 | 335 | P | V |
|                                                                               |                                                                                             | 5042.64 | 40.72  | -13.28 | 54 | 32.84 | 31.95 | 8.97 | 33.04 | 370 | 335 | A | V |
|                                                                               | *                                                                                           | 5240    | 103.91 | -      | -  | 95.69 | 32.13 | 9.12 | 33.03 | 370 | 335 | P | V |
|                                                                               | *                                                                                           | 5240    | 96.17  | -      | -  | 87.95 | 32.13 | 9.12 | 33.03 | 370 | 335 | A | V |
|                                                                               |                                                                                             | 5380.08 | 49.22  | -24.78 | 74 | 40.76 | 32.28 | 9.2  | 33.02 | 370 | 335 | P | V |
|                                                                               |                                                                                             | 5454.48 | 40.28  | -13.72 | 54 | 31.66 | 32.35 | 9.29 | 33.02 | 370 | 335 | 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 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |                                                                                             | 10360                | 46.19               | -27.81                  | 74                          | 56.91                     | 38.41                         | 14.63                   | 64.07                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15540                | 44.19               | -29.81                  | 74                          | 50.64                     | 37.58                         | 17.95                   | 62.37                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10360                | 45.66               | -28.34                  | 74                          | 56.38                     | 38.41                         | 14.63                   | 64.07                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15540                | 46.11               | -27.89                  | 74                          | 52.56                     | 37.58                         | 17.95                   | 62.37                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 46.06               | -27.94                  | 74                          | 56.65                     | 38.51                         | 14.68                   | 64.09                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15660                | 44.68               | -29.32                  | 74                          | 51.04                     | 37.14                         | 18.06                   | 61.91                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10440                | 46.32               | -27.68                  | 74                          | 56.91                     | 38.51                         | 14.68                   | 64.09                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15660                | 45.68               | -28.32                  | 74                          | 52.04                     | 37.14                         | 18.06                   | 61.91                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 47.03               | -26.97                  | 74                          | 57.52                     | 38.58                         | 14.72                   | 64.1                       | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15720                | 44.57               | -29.43                  | 74                          | 50.9                      | 36.89                         | 18.1                    | 61.65                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10480                | 46.9                | -27.1                   | 74                          | 57.39                     | 38.58                         | 14.72                   | 64.1                       | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15720                | 45.03               | -28.97                  | 74                          | 51.36                     | 36.89                         | 18.1                    | 61.65                      | 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 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 5150                 | 56.31               | -17.69                  | 74                          | 48.24                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | P                       | H               |
|                                       |                                                                                             | 5149.24              | 50.39               | -3.61                   | 54                          | 42.32                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | A                       | H               |
|                                       | *                                                                                           | 5190                 | 100.94              | -                       | -                           | 92.8                      | 32.08                         | 9.09                    | 33.03                      | 100                  | 116                     | P                       | H               |
|                                       | *                                                                                           | 5190                 | 92.83               | -                       | -                           | 84.69                     | 32.08                         | 9.09                    | 33.03                      | 100                  | 116                     | A                       | H               |
|                                       |                                                                                             | 5419.4               | 49.36               | -24.64                  | 74                          | 40.8                      | 32.32                         | 9.26                    | 33.02                      | 100                  | 116                     | P                       | H               |
|                                       |                                                                                             | 5441.52              | 41.07               | -12.93                  | 54                          | 32.5                      | 32.33                         | 9.26                    | 33.02                      | 100                  | 116                     | A                       | H               |
|                                       |                                                                                             | 5150.02              | 56.75               | -93.25                  | 150                         | 48.68                     | 32.05                         | 9.05                    | 33.03                      | 302                  | 80                      | P                       | V               |
|                                       |                                                                                             | 5149.5               | 48.2                | -5.8                    | 54                          | 40.13                     | 32.05                         | 9.05                    | 33.03                      | 302                  | 80                      | A                       | V               |
|                                       | *                                                                                           | 5190                 | 99.37               | -                       | -                           | 91.23                     | 32.08                         | 9.09                    | 33.03                      | 302                  | 80                      | P                       | V               |
|                                       | *                                                                                           | 5190                 | 91.38               | -                       | -                           | 83.24                     | 32.08                         | 9.09                    | 33.03                      | 302                  | 80                      | A                       | V               |
|                                       |                                                                                             | 5439                 | 48.87               | -25.13                  | 74                          | 40.3                      | 32.33                         | 9.26                    | 33.02                      | 302                  | 80                      | P                       | V               |
|                                       |                                                                                             | 5453.56              | 41.01               | -12.99                  | 54                          | 32.39                     | 32.35                         | 9.29                    | 33.02                      | 302                  | 80                      | A                       | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 5148.2               | 50.56               | -23.44                  | 74                          | 42.49                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 122                     | P                       | H               |
|                                       |                                                                                             | 5140.4               | 41.62               | -12.38                  | 54                          | 33.55                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 122                     | A                       | H               |
|                                       | *                                                                                           | 5230                 | 102.76              | -                       | -                           | 94.55                     | 32.13                         | 9.11                    | 33.03                      | 100                  | 122                     | P                       | H               |
|                                       | *                                                                                           | 5230                 | 93.92               | -                       | -                           | 85.71                     | 32.13                         | 9.11                    | 33.03                      | 100                  | 122                     | A                       | H               |
|                                       |                                                                                             | 5403.16              | 50.1                | -23.9                   | 74                          | 41.6                      | 32.3                          | 9.22                    | 33.02                      | 100                  | 122                     | P                       | H               |
|                                       |                                                                                             | 5429.48              | 41.17               | -12.83                  | 54                          | 32.6                      | 32.33                         | 9.26                    | 33.02                      | 100                  | 122                     | A                       | H               |
|                                       |                                                                                             | 5099.06              | 50.14               | -23.86                  | 74                          | 42.17                     | 32                            | 9.01                    | 33.04                      | 354                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5077.74              | 41.67               | -12.33                  | 54                          | 33.74                     | 31.98                         | 8.99                    | 33.04                      | 354                  | 79                      | A                       | V               |
|                                       | *                                                                                           | 5230                 | 101.75              | -                       | -                           | 93.54                     | 32.13                         | 9.11                    | 33.03                      | 354                  | 79                      | P                       | V               |
|                                       | *                                                                                           | 5230                 | 92.73               | -                       | -                           | 84.52                     | 32.13                         | 9.11                    | 33.03                      | 354                  | 79                      | A                       | V               |
|                                       |                                                                                             | 5386.36              | 49.82               | -24.18                  | 74                          | 41.36                     | 32.28                         | 9.2                     | 33.02                      | 354                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5456.36              | 41.07               | -12.93                  | 54                          | 32.45                     | 32.35                         | 9.29                    | 33.02                      | 354                  | 79                      | 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 802.11ac VHT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                              | 10380                | 45.07               | -28.93                  | 74                          | 55.76                     | 38.44                         | 14.64                   | 64.08                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              | 15570                | 44.93               | -29.07                  | 74                          | 51.36                     | 37.45                         | 17.98                   | 62.24                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 10380                | 45.58               | -28.42                  | 74                          | 56.27                     | 38.44                         | 14.64                   | 64.08                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              | 15570                | 44.22               | -29.78                  | 74                          | 50.65                     | 37.45                         | 17.98                   | 62.24                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                              | 10460                | 45.65               | -28.35                  | 74                          | 56.21                     | 38.53                         | 14.69                   | 64.09                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              | 15690                | 45.38               | -28.62                  | 74                          | 51.73                     | 37.02                         | 18.07                   | 61.78                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 10460                | 46.47               | -27.53                  | 74                          | 57.03                     | 38.53                         | 14.69                   | 64.09                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              | 15690                | 46.22               | -27.78                  | 74                          | 52.57                     | 37.02                         | 18.07                   | 61.78                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                       | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                     | 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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 5145.34              | 57.73               | -16.27                  | 74                          | 49.66                   | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | P                     | H             |
|                                       |                                                                                             | 5147.94              | 50.64               | -3.36                   | 54                          | 42.57                   | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | A                     | H             |
|                                       | *                                                                                           | 5210                 | 97.63               | -                       | -                           | 89.45                   | 32.12                         | 9.09                    | 33.03                      | 100                  | 116                     | P                     | H             |
|                                       | *                                                                                           | 5210                 | 89.1                | -                       | -                           | 80.92                   | 32.12                         | 9.09                    | 33.03                      | 100                  | 116                     | A                     | H             |
|                                       |                                                                                             | 5425.28              | 50.34               | -23.66                  | 74                          | 41.78                   | 32.32                         | 9.26                    | 33.02                      | 100                  | 116                     | P                     | H             |
|                                       |                                                                                             | 5355.28              | 41.03               | -12.97                  | 54                          | 32.62                   | 32.25                         | 9.19                    | 33.03                      | 100                  | 116                     | A                     | H             |
|                                       |                                                                                             | 5148.46              | 56.11               | -17.89                  | 74                          | 48.04                   | 32.05                         | 9.05                    | 33.03                      | 284                  | 82                      | P                     | V             |
|                                       |                                                                                             | 5149.76              | 49.2                | -4.8                    | 54                          | 41.13                   | 32.05                         | 9.05                    | 33.03                      | 284                  | 82                      | A                     | V             |
|                                       | *                                                                                           | 5210                 | 96.08               | -                       | -                           | 87.9                    | 32.12                         | 9.09                    | 33.03                      | 284                  | 82                      | P                     | V             |
|                                       | *                                                                                           | 5210                 | 87.78               | -                       | -                           | 79.6                    | 32.12                         | 9.09                    | 33.03                      | 284                  | 82                      | A                     | V             |
|                                       |                                                                                             | 5395.04              | 49.61               | -24.39                  | 74                          | 41.11                   | 32.3                          | 9.22                    | 33.02                      | 284                  | 82                      | P                     | V             |
|                                       |                                                                                             | 5439                 | 40.96               | -13.04                  | 54                          | 32.39                   | 32.33                         | 9.26                    | 33.02                      | 284                  | 82                      | 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 802.11ac VHT80 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                     | 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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 10420                | 46.72               | -27.28                  | 74                          | 57.34                   | 38.48                         | 14.67                   | 64.08                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15630                | 44.57               | -29.43                  | 74                          | 50.96                   | 37.2                          | 18.03                   | 61.98                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10420                | 46.09               | -27.91                  | 74                          | 56.71                   | 38.48                         | 14.67                   | 64.08                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15630                | 45.24               | -28.76                  | 74                          | 51.63                   | 37.2                          | 18.03                   | 61.98                      | 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 2 - 5250~5350MHz

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

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 52<br>5260MHz |      | 5114.24   | 49.05      | -24.95 | 74         | 41.04    | 32.02    | 9.03   | 33.04  | 100    | 124     | P     | H     |
|                             |      | 5097.24   | 40.93      | -13.07 | 54         | 32.96    | 32       | 9.01   | 33.04  | 100    | 124     | A     | H     |
|                             | *    | 5260      | 106.45     | -      | -          | 98.19    | 32.17    | 9.12   | 33.03  | 100    | 124     | P     | H     |
|                             | *    | 5260      | 98.36      | -      | -          | 90.1     | 32.17    | 9.12   | 33.03  | 100    | 124     | A     | H     |
|                             |      | 5395.2    | 49.08      | -24.92 | 74         | 40.58    | 32.3     | 9.22   | 33.02  | 100    | 124     | P     | H     |
|                             |      | 5350.08   | 40.63      | -13.37 | 54         | 32.22    | 32.25    | 9.19   | 33.03  | 100    | 124     | A     | H     |
|                             |      | 5028.9    | 49.44      | -24.56 | 74         | 41.6     | 31.93    | 8.95   | 33.04  | 344    | 337     | P     | V     |
|                             |      | 5070.38   | 41.03      | -12.97 | 54         | 33.11    | 31.97    | 8.99   | 33.04  | 344    | 337     | A     | V     |
|                             | *    | 5260      | 105.06     | -      | -          | 96.8     | 32.17    | 9.12   | 33.03  | 344    | 337     | P     | V     |
|                             | *    | 5260      | 97.34      | -      | -          | 89.08    | 32.17    | 9.12   | 33.03  | 344    | 337     | A     | V     |
|                             |      | 5450.64   | 50.1       | -23.9  | 74         | 41.48    | 32.35    | 9.29   | 33.02  | 344    | 337     | P     | V     |
|                             |      | 5419.44   | 40.35      | -13.65 | 54         | 31.79    | 32.32    | 9.26   | 33.02  | 344    | 337     | A     | V     |
| 802.11a<br>CH 60<br>5300MHz |      | 5009.86   | 48.81      | -25.19 | 74         | 40.98    | 31.92    | 8.95   | 33.04  | 102    | 122     | P     | H     |
|                             |      | 5063.92   | 40.77      | -13.23 | 54         | 32.85    | 31.97    | 8.99   | 33.04  | 102    | 122     | A     | H     |
|                             | *    | 5300      | 106.53     | -      | -          | 98.2     | 32.2     | 9.16   | 33.03  | 102    | 122     | P     | H     |
|                             | *    | 5300      | 98.42      | -      | -          | 90.09    | 32.2     | 9.16   | 33.03  | 102    | 122     | A     | H     |
|                             |      | 5364.24   | 49.39      | -24.61 | 74         | 40.96    | 32.27    | 9.19   | 33.03  | 102    | 122     | P     | H     |
|                             |      | 5350.56   | 41.76      | -12.24 | 54         | 33.35    | 32.25    | 9.19   | 33.03  | 102    | 122     | A     | H     |
|                             |      | 5073.1    | 49.54      | -24.46 | 74         | 41.61    | 31.98    | 8.99   | 33.04  | 338    | 336     | P     | V     |
|                             |      | 5140.08   | 40.79      | -13.21 | 54         | 32.72    | 32.05    | 9.05   | 33.03  | 338    | 336     | A     | V     |
|                             | *    | 5300      | 105.13     | -      | -          | 96.8     | 32.2     | 9.16   | 33.03  | 338    | 336     | P     | V     |
|                             | *    | 5300      | 97.56      | -      | -          | 89.23    | 32.2     | 9.16   | 33.03  | 338    | 336     | A     | V     |
|                             |      | 5425.44   | 48.86      | -25.14 | 74         | 40.3     | 32.32    | 9.26   | 33.02  | 338    | 336     | P     | V     |
|                             |      | 5352.24   | 41.33      | -12.67 | 54         | 32.92    | 32.25    | 9.19   | 33.03  | 338    | 336     | A     | V     |



|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 107.61 | -      | -  | 99.25 | 32.22 | 9.17 | 33.03 | 100 | 121 | P | H |
|                                                  | *                                                                                           | 5320    | 98.87  | -      | -  | 90.51 | 32.22 | 9.17 | 33.03 | 100 | 121 | A | H |
|                                                  |                                                                                             | 5353.28 | 51.28  | -22.72 | 74 | 42.87 | 32.25 | 9.19 | 33.03 | 100 | 121 | P | H |
|                                                  |                                                                                             | 5350.72 | 42.81  | -11.19 | 54 | 34.4  | 32.25 | 9.19 | 33.03 | 100 | 121 | A | H |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                  | *                                                                                           | 5320    | 106.48 | -      | -  | 98.12 | 32.22 | 9.17 | 33.03 | 319 | 337 | P | V |
|                                                  | *                                                                                           | 5320    | 98.01  | -      | -  | 89.65 | 32.22 | 9.17 | 33.03 | 319 | 337 | A | V |
|                                                  |                                                                                             | 5369.76 | 50.44  | -23.56 | 74 | 42    | 32.27 | 9.2  | 33.03 | 319 | 337 | P | V |
|                                                  |                                                                                             | 5353.12 | 42.07  | -11.93 | 54 | 33.66 | 32.25 | 9.19 | 33.03 | 319 | 337 | 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>1           | 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                | 45.89               | -28.11                  | 74                          | 56.32                     | 38.62                         | 14.74                   | 64.1                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 44.72               | -29.28                  | 74                          | 51                        | 36.71                         | 18.15                   | 61.45                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 45.6                | -28.4                   | 74                          | 56.03                     | 38.62                         | 14.74                   | 64.1                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 44.86               | -29.14                  | 74                          | 51.14                     | 36.71                         | 18.15                   | 61.45                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 45.61               | -28.39                  | 74                          | 55.86                     | 38.72                         | 14.8                    | 64.08                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15900                | 44.62               | -29.38                  | 74                          | 50.81                     | 36.27                         | 18.25                   | 60.99                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10600                | 45.54               | -28.46                  | 74                          | 55.79                     | 38.72                         | 14.8                    | 64.08                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15900                | 44.66               | -29.34                  | 74                          | 50.85                     | 36.27                         | 18.25                   | 60.99                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 46                  | -28                     | 74                          | 56.18                     | 38.77                         | 14.82                   | 64.07                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 44.23               | -29.77                  | 74                          | 50.38                     | 36.02                         | 18.3                    | 60.73                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 46.49               | -27.51                  | 74                          | 56.67                     | 38.77                         | 14.82                   | 64.07                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15960                | 44.95               | -29.05                  | 74                          | 51.1                      | 36.02                         | 18.3                    | 60.73                      | 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 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                               | 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>802.11ac<br/>VHT20<br/>CH 52<br/>5260MHz</b> |      | 5004.42              | 50.08               | -23.92                  | 74                          | 42.25                     | 31.92                         | 8.95                    | 33.04                      | 339                  | 124                     | P                       | H               |
|                                                 |      | 5072.08              | 40.73               | -13.27                  | 54                          | 32.8                      | 31.98                         | 8.99                    | 33.04                      | 339                  | 124                     | A                       | H               |
|                                                 | *    | 5260                 | 105.12              | -                       | -                           | 96.86                     | 32.17                         | 9.12                    | 33.03                      | 339                  | 124                     | P                       | H               |
|                                                 | *    | 5260                 | 97.34               | -                       | -                           | 89.08                     | 32.17                         | 9.12                    | 33.03                      | 339                  | 124                     | A                       | H               |
|                                                 |      | 5392.32              | 50.12               | -23.88                  | 74                          | 41.66                     | 32.28                         | 9.2                     | 33.02                      | 339                  | 124                     | P                       | H               |
|                                                 |      | 5351.28              | 40.62               | -13.38                  | 54                          | 32.21                     | 32.25                         | 9.19                    | 33.03                      | 339                  | 124                     | A                       | H               |
|                                                 |      | 5133.62              | 50.14               | -23.86                  | 74                          | 42.09                     | 32.03                         | 9.05                    | 33.03                      | 344                  | 337                     | P                       | V               |
|                                                 |      | 5072.08              | 40.77               | -13.23                  | 54                          | 32.84                     | 31.98                         | 8.99                    | 33.04                      | 344                  | 337                     | A                       | V               |
|                                                 | *    | 5260                 | 104.06              | -                       | -                           | 95.8                      | 32.17                         | 9.12                    | 33.03                      | 344                  | 337                     | P                       | V               |
|                                                 | *    | 5260                 | 96.03               | -                       | -                           | 87.77                     | 32.17                         | 9.12                    | 33.03                      | 344                  | 337                     | A                       | V               |
|                                                 |      | 5417.04              | 49.03               | -24.97                  | 74                          | 40.51                     | 32.32                         | 9.22                    | 33.02                      | 344                  | 337                     | P                       | V               |
|                                                 |      | 5454.72              | 40.55               | -13.45                  | 54                          | 31.93                     | 32.35                         | 9.29                    | 33.02                      | 344                  | 337                     | A                       | V               |
| <b>802.11ac<br/>VHT20<br/>CH 60<br/>5300MHz</b> |      | 5083.98              | 49.27               | -24.73                  | 74                          | 41.32                     | 31.98                         | 9.01                    | 33.04                      | 103                  | 123                     | P                       | H               |
|                                                 |      | 5087.04              | 40.73               | -13.27                  | 54                          | 32.78                     | 31.98                         | 9.01                    | 33.04                      | 103                  | 123                     | A                       | H               |
|                                                 | *    | 5300                 | 104.71              | -                       | -                           | 96.38                     | 32.2                          | 9.16                    | 33.03                      | 103                  | 123                     | P                       | H               |
|                                                 | *    | 5300                 | 98.54               | -                       | -                           | 90.21                     | 32.2                          | 9.16                    | 33.03                      | 103                  | 123                     | A                       | H               |
|                                                 |      | 5356.32              | 50.32               | -23.68                  | 74                          | 41.91                     | 32.25                         | 9.19                    | 33.03                      | 103                  | 123                     | P                       | H               |
|                                                 |      | 5350.32              | 41.67               | -12.33                  | 54                          | 33.26                     | 32.25                         | 9.19                    | 33.03                      | 103                  | 123                     | A                       | H               |
|                                                 |      | 5091.12              | 49.24               | -24.76                  | 74                          | 41.27                     | 32                            | 9.01                    | 33.04                      | 338                  | 336                     | P                       | V               |
|                                                 |      | 5054.4               | 40.71               | -13.29                  | 54                          | 32.83                     | 31.95                         | 8.97                    | 33.04                      | 338                  | 336                     | A                       | V               |
|                                                 | *    | 5300                 | 104.8               | -                       | -                           | 96.47                     | 32.2                          | 9.16                    | 33.03                      | 338                  | 336                     | P                       | V               |
|                                                 | *    | 5300                 | 97.1                | -                       | -                           | 88.77                     | 32.2                          | 9.16                    | 33.03                      | 338                  | 336                     | A                       | V               |
|                                                 |      | 5357.52              | 49.33               | -24.67                  | 74                          | 40.92                     | 32.25                         | 9.19                    | 33.03                      | 338                  | 336                     | P                       | V               |
|                                                 |      | 5353.2               | 41.08               | -12.92                  | 54                          | 32.67                     | 32.25                         | 9.19                    | 33.03                      | 338                  | 336                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 103.59 | -      | -  | 95.23 | 32.22 | 9.17 | 33.03 | 100 | 125 | P | H |
|                                                                   | *                                                                                           | 5320    | 94.83  | -      | -  | 86.47 | 32.22 | 9.17 | 33.03 | 100 | 125 | A | H |
|                                                                   |                                                                                             | 5351.68 | 51.23  | -22.77 | 74 | 42.82 | 32.25 | 9.19 | 33.03 | 100 | 125 | P | H |
|                                                                   |                                                                                             | 5351.52 | 41.56  | -12.44 | 54 | 33.15 | 32.25 | 9.19 | 33.03 | 100 | 125 | A | H |
|                                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                                   | *                                                                                           | 5320    | 103.01 | -      | -  | 94.65 | 32.22 | 9.17 | 33.03 | 400 | 357 | P | V |
|                                                                   | *                                                                                           | 5320    | 94.52  | -      | -  | 86.16 | 32.22 | 9.17 | 33.03 | 400 | 357 | A | V |
|                                                                   |                                                                                             | 5431    | 50.07  | -23.93 | 74 | 41.5  | 32.33 | 9.26 | 33.02 | 400 | 357 | P | V |
|                                                                   |                                                                                             | 5350.72 | 41.17  | -12.83 | 54 | 32.76 | 32.25 | 9.19 | 33.03 | 400 | 357 | 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 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 46.45               | -27.55                  | 74                          | 56.88                     | 38.62                         | 14.74                   | 64.1                       | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15780                | 44.19               | -29.81                  | 74                          | 50.47                     | 36.71                         | 18.15                   | 61.45                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10520                | 46.33               | -27.67                  | 74                          | 56.76                     | 38.62                         | 14.74                   | 64.1                       | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15780                | 44.7                | -29.3                   | 74                          | 50.98                     | 36.71                         | 18.15                   | 61.45                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 46.62               | -27.38                  | 74                          | 56.87                     | 38.72                         | 14.8                    | 64.08                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15900                | 44.17               | -29.83                  | 74                          | 50.36                     | 36.27                         | 18.25                   | 60.99                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10600                | 45.9                | -28.1                   | 74                          | 56.15                     | 38.72                         | 14.8                    | 64.08                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15900                | 44.34               | -29.66                  | 74                          | 50.53                     | 36.27                         | 18.25                   | 60.99                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 44.71               | -29.29                  | 74                          | 54.89                     | 38.77                         | 14.82                   | 64.07                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15960                | 43.14               | -30.86                  | 74                          | 49.29                     | 36.02                         | 18.3                    | 60.73                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10640                | 44.03               | -29.97                  | 74                          | 54.21                     | 38.77                         | 14.82                   | 64.07                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15960                | 43.59               | -30.41                  | 74                          | 49.74                     | 36.02                         | 18.3                    | 60.73                      | 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 2 5250~5350MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 5148.92              | 49.65               | -24.35                  | 74                          | 41.58                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       |                                                                                             | 5120.02              | 41.54               | -12.46                  | 54                          | 33.52                     | 32.02                         | 9.03                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       | *                                                                                           | 5270                 | 102.98              | -                       | -                           | 94.7                      | 32.17                         | 9.14                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       | *                                                                                           | 5270                 | 93.84               | -                       | -                           | 85.56                     | 32.17                         | 9.14                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       |                                                                                             | 5426.64              | 49.48               | -24.52                  | 74                          | 40.92                     | 32.32                         | 9.26                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                       |                                                                                             | 5350.56              | 41.52               | -12.48                  | 54                          | 33.11                     | 32.25                         | 9.19                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       |                                                                                             | 5116.96              | 49.54               | -24.46                  | 74                          | 41.53                     | 32.02                         | 9.03                    | 33.04                      | 368                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5040.12              | 41.37               | -12.63                  | 54                          | 33.49                     | 31.95                         | 8.97                    | 33.04                      | 368                  | 79                      | A                       | V               |
|                                       | *                                                                                           | 5270                 | 102.13              | -                       | -                           | 93.85                     | 32.17                         | 9.14                    | 33.03                      | 368                  | 79                      | P                       | V               |
|                                       | *                                                                                           | 5270                 | 93.06               | -                       | -                           | 84.78                     | 32.17                         | 9.14                    | 33.03                      | 368                  | 79                      | A                       | V               |
|                                       |                                                                                             | 5414.88              | 48.4                | -25.6                   | 74                          | 39.88                     | 32.32                         | 9.22                    | 33.02                      | 368                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5355.6               | 41.04               | -12.96                  | 54                          | 32.63                     | 32.25                         | 9.19                    | 33.03                      | 368                  | 79                      | A                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 5138.72              | 50.08               | -23.92                  | 74                          | 42.03                     | 32.03                         | 9.05                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       |                                                                                             | 5091.8               | 41.61               | -12.39                  | 54                          | 33.64                     | 32                            | 9.01                    | 33.04                      | 100                  | 121                     | A                       | H               |
|                                       | *                                                                                           | 5310                 | 103.13              | -                       | -                           | 94.78                     | 32.22                         | 9.16                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       | *                                                                                           | 5310                 | 94.29               | -                       | -                           | 85.94                     | 32.22                         | 9.16                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       |                                                                                             | 5351.76              | 55.9                | -18.1                   | 74                          | 47.49                     | 32.25                         | 9.19                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       |                                                                                             | 5350.8               | 50.71               | -3.29                   | 54                          | 42.3                      | 32.25                         | 9.19                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       |                                                                                             | 5139.4               | 50.04               | -23.96                  | 74                          | 41.99                     | 32.03                         | 9.05                    | 33.03                      | 362                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5040.46              | 41.67               | -12.33                  | 54                          | 33.79                     | 31.95                         | 8.97                    | 33.04                      | 362                  | 79                      | A                       | V               |
|                                       | *                                                                                           | 5310                 | 102.92              | -                       | -                           | 94.57                     | 32.22                         | 9.16                    | 33.03                      | 362                  | 79                      | P                       | V               |
|                                       | *                                                                                           | 5310                 | 93.95               | -                       | -                           | 85.6                      | 32.22                         | 9.16                    | 33.03                      | 362                  | 79                      | A                       | V               |
|                                       |                                                                                             | 5352                 | 56.48               | -17.52                  | 74                          | 48.07                     | 32.25                         | 9.19                    | 33.03                      | 362                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5350.56              | 49.71               | -4.29                   | 54                          | 41.3                      | 32.25                         | 9.19                    | 33.03                      | 362                  | 79                      | A                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 10540                | 45.77               | -28.23                  | 74                          | 56.15                     | 38.64                         | 14.76                   | 64.09                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15810                | 44.8                | -29.2                   | 74                          | 51.05                     | 36.58                         | 18.18                   | 61.32                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10540                | 45.77               | -28.23                  | 74                          | 56.15                     | 38.64                         | 14.76                   | 64.09                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15810                | 44.64               | -29.36                  | 74                          | 50.89                     | 36.58                         | 18.18                   | 61.32                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 10620                | 45.2                | -28.8                   | 74                          | 55.43                     | 38.74                         | 14.81                   | 64.08                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15930                | 43.1                | -30.9                   | 74                          | 49.26                     | 36.15                         | 18.28                   | 60.86                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10620                | 45.48               | -28.52                  | 74                          | 55.71                     | 38.74                         | 14.81                   | 64.08                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15930                | 43.54               | -30.46                  | 74                          | 49.7                      | 36.15                         | 18.28                   | 60.86                      | 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 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                     | 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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 5144.5               | 48.95               | -25.05                  | 74                          | 40.88                   | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | P                     | H             |
|                                       |                                                                                             | 5085                 | 41.51               | -12.49                  | 54                          | 33.56                   | 31.98                         | 9.01                    | 33.04                      | 100                  | 116                     | A                     | H             |
|                                       | *                                                                                           | 5290                 | 98.27               | -                       | -                           | 89.96                   | 32.18                         | 9.16                    | 33.03                      | 100                  | 116                     | P                     | H             |
|                                       | *                                                                                           | 5290                 | 90.01               | -                       | -                           | 81.7                    | 32.18                         | 9.16                    | 33.03                      | 100                  | 116                     | A                     | H             |
|                                       |                                                                                             | 5360.16              | 58.4                | -15.6                   | 74                          | 49.99                   | 32.25                         | 9.19                    | 33.03                      | 100                  | 116                     | P                     | H             |
|                                       |                                                                                             | 5351.52              | 50.27               | -3.73                   | 54                          | 41.86                   | 32.25                         | 9.19                    | 33.03                      | 100                  | 116                     | A                     | H             |
|                                       |                                                                                             | 5055.76              | 49.98               | -24.02                  | 74                          | 42.06                   | 31.97                         | 8.99                    | 33.04                      | 300                  | 82                      | P                     | V             |
|                                       |                                                                                             | 5101.32              | 41.51               | -12.49                  | 54                          | 33.54                   | 32                            | 9.01                    | 33.04                      | 300                  | 82                      | A                     | V             |
|                                       | *                                                                                           | 5290                 | 96.83               | -                       | -                           | 88.52                   | 32.18                         | 9.16                    | 33.03                      | 300                  | 82                      | P                     | V             |
|                                       | *                                                                                           | 5290                 | 88.11               | -                       | -                           | 79.8                    | 32.18                         | 9.16                    | 33.03                      | 300                  | 82                      | A                     | V             |
|                                       |                                                                                             | 5357.76              | 56.37               | -17.63                  | 74                          | 47.96                   | 32.25                         | 9.19                    | 33.03                      | 300                  | 82                      | P                     | V             |
|                                       |                                                                                             | 5351.04              | 48.59               | -5.41                   | 54                          | 40.18                   | 32.25                         | 9.19                    | 33.03                      | 300                  | 82                      | A                     | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

**Band 2 5250~5350MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                     | 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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 10580                | 44.71               | -29.29                  | 74                          | 55                      | 38.7                          | 14.78                   | 64.08                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15870                | 44.17               | -29.83                  | 74                          | 50.39                   | 36.33                         | 18.22                   | 61.06                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10580                | 45.05               | -28.95                  | 74                          | 55.34                   | 38.7                          | 14.78                   | 64.08                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15870                | 44.81               | -29.19                  | 74                          | 51.03                   | 36.33                         | 18.22                   | 61.06                      | 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 3 - 5470~5725MHz

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

| WIFI                         | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                         |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5455.6    | 50.6       | -23.4  | 74         | 41.98    | 32.35    | 9.29   | 33.02  | 100    | 118     | P       | H       |
|                              |      | 5462.64   | 51.08      | -17.12 | 68.2       | 42.44    | 32.37    | 9.29   | 33.02  | 100    | 118     | P       | H       |
|                              |      | 5457.52   | 42.6       | -11.4  | 54         | 33.98    | 32.35    | 9.29   | 33.02  | 100    | 118     | A       | H       |
|                              | *    | 5500      | 107.09     | -      | -          | 98.34    | 32.4     | 9.37   | 33.02  | 100    | 118     | P       | H       |
|                              | *    | 5500      | 99.2       | -      | -          | 90.45    | 32.4     | 9.37   | 33.02  | 100    | 118     | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5456.88   | 50.82      | -23.18 | 74         | 42.2     | 32.35    | 9.29   | 33.02  | 300    | 340     | P       | V       |
|                              |      | 5461.52   | 50.11      | -18.09 | 68.2       | 41.49    | 32.35    | 9.29   | 33.02  | 300    | 340     | P       | V       |
|                              |      | 5459.92   | 41.49      | -12.51 | 54         | 32.87    | 32.35    | 9.29   | 33.02  | 300    | 340     | A       | V       |
|                              | *    | 5500      | 104.96     | -      | -          | 96.21    | 32.4     | 9.37   | 33.02  | 300    | 340     | P       | V       |
|                              | *    | 5500      | 97.1       | -      | -          | 88.35    | 32.4     | 9.37   | 33.02  | 300    | 340     | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5452.24   | 49.92      | -24.08 | 74         | 41.3     | 32.35    | 9.29   | 33.02  | 101    | 120     | P       | H       |
|                              |      | 5463.28   | 48.69      | -19.51 | 68.2       | 40.05    | 32.37    | 9.29   | 33.02  | 101    | 120     | P       | H       |
|                              |      | 5458.24   | 40.81      | -13.19 | 54         | 32.19    | 32.35    | 9.29   | 33.02  | 101    | 120     | A       | H       |
|                              | *    | 5580      | 107.94     | -      | -          | 98.96    | 32.57    | 9.48   | 33.07  | 101    | 120     | P       | H       |
|                              | *    | 5580      | 99.87      | -      | -          | 90.89    | 32.57    | 9.48   | 33.07  | 101    | 120     | A       | H       |
|                              |      | 5753.66   | 49.39      | -18.81 | 68.2       | 39.64    | 33.02    | 9.88   | 33.15  | 101    | 120     | P       | H       |
|                              |      | 5457.76   | 48.48      | -25.52 | 74         | 39.86    | 32.35    | 9.29   | 33.02  | 344    | 329     | P       | V       |
|                              |      | 5460.88   | 49.05      | -19.15 | 68.2       | 40.43    | 32.35    | 9.29   | 33.02  | 344    | 329     | P       | V       |
|                              |      | 5453.68   | 40.67      | -13.33 | 54         | 32.05    | 32.35    | 9.29   | 33.02  | 344    | 329     | A       | V       |
|                              | *    | 5580      | 105.82     | -      | -          | 96.84    | 32.57    | 9.48   | 33.07  | 344    | 329     | P       | V       |
|                              | *    | 5580      | 97.51      | -      | -          | 88.53    | 32.57    | 9.48   | 33.07  | 344    | 329     | A       | V       |
|                              |      | 5754.605  | 49.75      | -18.45 | 68.2       | 40       | 33.02    | 9.88   | 33.15  | 344    | 329     | P       | V       |



|                                       |                                                                                             |         |        |        |      |        |       |      |       |     |     |   |   |
|---------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|------|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 110.38 | -      | -    | 100.89 | 32.86 | 9.75 | 33.12 | 100 | 120 | P | H |
|                                       | *                                                                                           | 5700    | 102.35 | -      | -    | 92.86  | 32.86 | 9.75 | 33.12 | 100 | 120 | A | H |
|                                       |                                                                                             | 5726.28 | 58.96  | -9.24  | 68.2 | 49.34  | 32.94 | 9.81 | 33.13 | 100 | 120 | P | H |
|                                       |                                                                                             |         |        |        |      |        |       |      |       |     |     |   | H |
|                                       |                                                                                             |         |        |        |      |        |       |      |       |     |     |   | H |
|                                       |                                                                                             |         |        |        |      |        |       |      |       |     |     |   | H |
|                                       | *                                                                                           | 5700    | 105.68 | -      | -    | 96.19  | 32.86 | 9.75 | 33.12 | 293 | 344 | P | V |
|                                       | *                                                                                           | 5700    | 98.08  | -      | -    | 88.59  | 32.86 | 9.75 | 33.12 | 293 | 344 | A | V |
|                                       |                                                                                             | 5725.56 | 53.17  | -15.03 | 68.2 | 43.55  | 32.94 | 9.81 | 33.13 | 293 | 344 | 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>1            | 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                | 46.65               | -27.35                  | 74                          | 56.07                     | 39.2                          | 15.08                   | 64                         | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 43.26               | -24.94                  | 68.2                        | 49.82                     | 37.1                          | 18.74                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11000                | 46.7                | -27.3                   | 74                          | 56.12                     | 39.2                          | 15.08                   | 64                         | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16500                | 42.79               | -25.41                  | 68.2                        | 49.35                     | 37.1                          | 18.74                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 47.34               | -26.66                  | 74                          | 56.55                     | 38.97                         | 15.2                    | 63.67                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 45.45               | -22.75                  | 68.2                        | 49.97                     | 38.93                         | 18.93                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11160                | 47.91               | -26.09                  | 74                          | 57.12                     | 38.97                         | 15.2                    | 63.67                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16740                | 47.02               | -21.18                  | 68.2                        | 51.54                     | 38.93                         | 18.93                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 46.74               | -27.26                  | 74                          | 55.64                     | 38.64                         | 15.38                   | 63.2                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 48.9                | -19.3                   | 68.2                        | 50.53                     | 40.84                         | 19.18                   | 62                         | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11400                | 47.07               | -26.93                  | 74                          | 55.97                     | 38.64                         | 15.38                   | 63.2                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17100                | 49.31               | -18.89                  | 68.2                        | 50.94                     | 40.84                         | 19.18                   | 62                         | 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 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |      | 5458.32              | 50.32               | -23.68                  | 74                          | 41.7                      | 32.35                         | 9.29                    | 33.02                      | 100                  | 112                     | P                       | H               |
|                                        |      | 5467.44              | 49.73               | -18.47                  | 68.2                        | 41.09                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 112                     | P                       | H               |
|                                        |      | 5458.48              | 41.55               | -12.45                  | 54                          | 32.93                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 112                     | A                       | H               |
|                                        | *    | 5500                 | 104.4               | -                       | -                           | 95.65                     | 32.4                          | 9.37                    | 33.02                      | 100                  | 112                     | P                       | H               |
|                                        | *    | 5500                 | 95.5                | -                       | -                           | 86.75                     | 32.4                          | 9.37                    | 33.02                      | 100                  | 112                     | A                       | H               |
|                                        |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |      | 5453.52              | 50.26               | -23.74                  | 74                          | 41.64                     | 32.35                         | 9.29                    | 33.02                      | 293                  | 79                      | P                       | V               |
|                                        |      | 5468.08              | 50.78               | -17.42                  | 68.2                        | 42.14                     | 32.37                         | 9.29                    | 33.02                      | 293                  | 79                      | P                       | V               |
|                                        |      | 5458.8               | 42.15               | -11.85                  | 54                          | 33.53                     | 32.35                         | 9.29                    | 33.02                      | 293                  | 79                      | A                       | V               |
|                                        | *    | 5500                 | 105.33              | -                       | -                           | 96.58                     | 32.4                          | 9.37                    | 33.02                      | 293                  | 79                      | P                       | V               |
|                                        | *    | 5500                 | 96.41               | -                       | -                           | 87.66                     | 32.4                          | 9.37                    | 33.02                      | 293                  | 79                      | A                       | V               |
|                                        |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |      | 5428.48              | 49.66               | -24.34                  | 74                          | 41.1                      | 32.32                         | 9.26                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5469.76              | 49.22               | -18.98                  | 68.2                        | 40.58                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5458.72              | 40.6                | -13.4                   | 54                          | 31.98                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                        | *    | 5580                 | 107.97              | -                       | -                           | 98.99                     | 32.57                         | 9.48                    | 33.07                      | 100                  | 121                     | P                       | H               |
|                                        | *    | 5580                 | 99.11               | -                       | -                           | 90.13                     | 32.57                         | 9.48                    | 33.07                      | 100                  | 121                     | A                       | H               |
|                                        |      | 5758.385             | 50.05               | -18.15                  | 68.2                        | 40.24                     | 33.02                         | 9.95                    | 33.16                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5352.16              | 49.01               | -24.99                  | 74                          | 40.6                      | 32.25                         | 9.19                    | 33.03                      | 282                  | 80                      | P                       | V               |
|                                        |      | 5460.64              | 47.56               | -20.64                  | 68.2                        | 38.94                     | 32.35                         | 9.29                    | 33.02                      | 282                  | 80                      | P                       | V               |
|                                        |      | 5457.28              | 40.59               | -13.41                  | 54                          | 31.97                     | 32.35                         | 9.29                    | 33.02                      | 282                  | 80                      | A                       | V               |
|                                        | *    | 5580                 | 105.18              | -                       | -                           | 96.2                      | 32.57                         | 9.48                    | 33.07                      | 282                  | 80                      | P                       | V               |
|                                        | *    | 5580                 | 96.5                | -                       | -                           | 87.52                     | 32.57                         | 9.48                    | 33.07                      | 282                  | 80                      | A                       | V               |
|                                        |      | 5742.95              | 50.21               | -17.99                  | 68.2                        | 40.5                      | 32.98                         | 9.88                    | 33.15                      | 282                  | 80                      | P                       | V               |



|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   |   |
|--------------------------------------------------|--------------------------------------------------------------|--------|--------|--------|------|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac<br/>VHT20<br/>CH 140<br/>5700MHz</b> | *                                                            | 5700   | 109.97 | -      | -    | 100.48 | 32.86 | 9.75 | 33.12 | 100 | 121 | P | H |
|                                                  | *                                                            | 5700   | 101.15 | -      | -    | 91.66  | 32.86 | 9.75 | 33.12 | 100 | 121 | A | H |
|                                                  |                                                              | 5726.2 | 57.89  | -10.31 | 68.2 | 48.27  | 32.94 | 9.81 | 33.13 | 100 | 121 | P | H |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | H |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | H |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | H |
|                                                  | *                                                            | 5700   | 107.03 | -      | -    | 97.54  | 32.86 | 9.75 | 33.12 | 281 | 79  | P | V |
|                                                  | *                                                            | 5700   | 98.18  | -      | -    | 88.69  | 32.86 | 9.75 | 33.12 | 281 | 79  | A | V |
|                                                  |                                                              | 5725   | 54.6   | -13.6  | 68.2 | 44.98  | 32.94 | 9.81 | 33.13 | 281 | 79  | P | V |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | V |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | V |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.                                  |        |        |        |      |        |       |      |       |     |     |   |   |
|                                                  | 2. All results are PASS against Peak and Average limit line. |        |        |        |      |        |       |      |       |     |     |   |   |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |                                                                                             | 11000                | 46.53               | -27.47                  | 74                          | 55.95                     | 39.2                          | 15.08                   | 64                         | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16500                | 43.18               | -25.02                  | 68.2                        | 49.74                     | 37.1                          | 18.74                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11000                | 46.5                | -27.5                   | 74                          | 55.92                     | 39.2                          | 15.08                   | 64                         | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16500                | 42.76               | -25.44                  | 68.2                        | 49.32                     | 37.1                          | 18.74                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 46.69               | -27.31                  | 74                          | 55.9                      | 38.97                         | 15.2                    | 63.67                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16740                | 44.94               | -23.26                  | 68.2                        | 49.46                     | 38.93                         | 18.93                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11160                | 46.67               | -27.33                  | 74                          | 55.88                     | 38.97                         | 15.2                    | 63.67                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16740                | 45.22               | -22.98                  | 68.2                        | 49.74                     | 38.93                         | 18.93                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 45.97               | -28.03                  | 74                          | 54.87                     | 38.64                         | 15.38                   | 63.2                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17100                | 48.98               | -19.22                  | 68.2                        | 50.61                     | 40.84                         | 19.18                   | 62                         | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11400                | 46.06               | -27.94                  | 74                          | 54.96                     | 38.64                         | 15.38                   | 63.2                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17100                | 48.74               | -19.46                  | 68.2                        | 50.37                     | 40.84                         | 19.18                   | 62                         | 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 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                                | 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>802.11ac<br/>VHT40<br/>CH 102<br/>5510MHz</b> |      | 5459.44              | 53.82               | -20.18                  | 74                          | 45.2                      | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5467.84              | 57.87               | -10.33                  | 68.2                        | 49.23                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5459.68              | 45.64               | -8.36                   | 54                          | 37.02                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                                  | *    | 5510                 | 102.64              | -                       | -                           | 93.9                      | 32.4                          | 9.37                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                                  | *    | 5510                 | 93.63               | -                       | -                           | 84.89                     | 32.4                          | 9.37                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                                  |      | 5725.625             | 49.76               | -18.44                  | 68.2                        | 40.14                     | 32.94                         | 9.81                    | 33.13                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5459.92              | 51.73               | -22.27                  | 74                          | 43.11                     | 32.35                         | 9.29                    | 33.02                      | 271                  | 79                      | P                       | V               |
|                                                  |      | 5470                 | 56.8                | -11.4                   | 68.2                        | 48.16                     | 32.37                         | 9.29                    | 33.02                      | 271                  | 79                      | P                       | V               |
|                                                  |      | 5459.2               | 43.83               | -10.17                  | 54                          | 35.21                     | 32.35                         | 9.29                    | 33.02                      | 271                  | 79                      | A                       | V               |
|                                                  | *    | 5510                 | 101.19              | -                       | -                           | 92.45                     | 32.4                          | 9.37                    | 33.03                      | 271                  | 79                      | P                       | V               |
|                                                  | *    | 5510                 | 91.82               | -                       | -                           | 83.08                     | 32.4                          | 9.37                    | 33.03                      | 271                  | 79                      | A                       | V               |
|                                                  |      | 5760.59              | 49.84               | -18.36                  | 68.2                        | 40.03                     | 33.02                         | 9.95                    | 33.16                      | 271                  | 79                      | P                       | V               |
| <b>802.11ac<br/>VHT40<br/>CH 110<br/>5550MHz</b> |      | 5459.2               | 48.81               | -25.19                  | 74                          | 40.19                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5461.12              | 49.62               | -18.58                  | 68.2                        | 41                        | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5458.24              | 42.05               | -11.95                  | 54                          | 33.43                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                                  | *    | 5550                 | 103.94              | -                       | -                           | 95.03                     | 32.52                         | 9.44                    | 33.05                      | 100                  | 121                     | P                       | H               |
|                                                  | *    | 5550                 | 94.85               | -                       | -                           | 85.94                     | 32.52                         | 9.44                    | 33.05                      | 100                  | 121                     | A                       | H               |
|                                                  |      | 5730.035             | 51.08               | -17.12                  | 68.2                        | 41.46                     | 32.94                         | 9.81                    | 33.13                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5362.72              | 49.15               | -24.85                  | 74                          | 40.72                     | 32.27                         | 9.19                    | 33.03                      | 287                  | 79                      | P                       | V               |
|                                                  |      | 5465.2               | 49.55               | -18.65                  | 68.2                        | 40.91                     | 32.37                         | 9.29                    | 33.02                      | 287                  | 79                      | P                       | V               |
|                                                  |      | 5459.44              | 41.8                | -12.2                   | 54                          | 33.18                     | 32.35                         | 9.29                    | 33.02                      | 287                  | 79                      | A                       | V               |
|                                                  | *    | 5550                 | 101.72              | -                       | -                           | 92.81                     | 32.52                         | 9.44                    | 33.05                      | 287                  | 79                      | P                       | V               |
|                                                  | *    | 5550                 | 92.74               | -                       | -                           | 83.83                     | 32.52                         | 9.44                    | 33.05                      | 287                  | 79                      | A                       | V               |
|                                                  |      | 5755.55              | 49.93               | -18.27                  | 68.2                        | 40.18                     | 33.02                         | 9.88                    | 33.15                      | 287                  | 79                      | P                       | V               |



|                                                                                |                                                                                             |         |        |        |      |       |       |      |       |     |     |   |   |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|------|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><br><b>VHT40</b><br><br><b>CH 134</b><br><br><b>5670MHz</b> |                                                                                             | 5451.5  | 48.54  | -25.46 | 74   | 39.92 | 32.35 | 9.29 | 33.02 | 100 | 121 | P | H |
|                                                                                |                                                                                             | 5470    | 47.77  | -20.43 | 68.2 | 39.13 | 32.37 | 9.29 | 33.02 | 100 | 121 | P | H |
|                                                                                |                                                                                             | 5453.6  | 41.16  | -12.84 | 54   | 32.54 | 32.35 | 9.29 | 33.02 | 100 | 121 | A | H |
|                                                                                | *                                                                                           | 5670    | 105.35 | -      | -    | 95.97 | 32.81 | 9.68 | 33.11 | 100 | 121 | P | H |
|                                                                                | *                                                                                           | 5670    | 96.79  | -      | -    | 87.41 | 32.81 | 9.68 | 33.11 | 100 | 121 | A | H |
|                                                                                |                                                                                             | 5734.55 | 54.89  | -13.31 | 68.2 | 45.18 | 32.98 | 9.88 | 33.15 | 100 | 121 | P | H |
|                                                                                |                                                                                             | 5353.15 | 48.65  | -25.35 | 74   | 40.24 | 32.25 | 9.19 | 33.03 | 284 | 79  | P | V |
|                                                                                |                                                                                             | 5464.8  | 47.85  | -20.35 | 68.2 | 39.21 | 32.37 | 9.29 | 33.02 | 284 | 79  | P | V |
|                                                                                |                                                                                             | 5437.85 | 41.05  | -12.95 | 54   | 32.48 | 32.33 | 9.26 | 33.02 | 284 | 79  | A | V |
|                                                                                | *                                                                                           | 5670    | 102.41 | -      | -    | 93.03 | 32.81 | 9.68 | 33.11 | 284 | 79  | P | V |
|                                                                                | *                                                                                           | 5670    | 94.01  | -      | -    | 84.63 | 32.81 | 9.68 | 33.11 | 284 | 79  | A | V |
|                                                                                |                                                                                             | 5740.85 | 51.57  | -16.63 | 68.2 | 41.86 | 32.98 | 9.88 | 33.15 | 284 | 79  | P | 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 802.11ac VHT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |                                                                                             | 11020                | 46.23               | -27.77                  | 74                          | 55.62                     | 39.18                         | 15.11                   | 63.97                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16530                | 42.81               | -25.39                  | 68.2                        | 49.09                     | 37.36                         | 18.76                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11020                | 45.72               | -28.28                  | 74                          | 55.11                     | 39.18                         | 15.11                   | 63.97                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16530                | 43.06               | -25.14                  | 68.2                        | 49.34                     | 37.36                         | 18.76                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |                                                                                             | 11100                | 46.56               | -27.44                  | 74                          | 55.85                     | 39.06                         | 15.16                   | 63.8                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16650                | 43.65               | -24.55                  | 68.2                        | 48.9                      | 38.28                         | 18.86                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11100                | 46.27               | -27.73                  | 74                          | 55.56                     | 39.06                         | 15.16                   | 63.8                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16650                | 44.32               | -23.88                  | 68.2                        | 49.57                     | 38.28                         | 18.86                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 134<br>5670MHz |                                                                                             | 11340                | 47.03               | -26.97                  | 74                          | 56.01                     | 38.73                         | 15.33                   | 63.33                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17010                | 46.73               | -21.47                  | 68.2                        | 48.94                     | 40.89                         | 19.14                   | 62.58                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11340                | 47.77               | -26.23                  | 74                          | 56.75                     | 38.73                         | 15.33                   | 63.33                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17010                | 47.36               | -20.84                  | 68.2                        | 49.57                     | 40.89                         | 19.14                   | 62.58                      | 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 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 5456.08              | 56.91               | -17.09                  | 74                          | 48.29                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5464.96              | 57.61               | -10.59                  | 68.2                        | 48.97                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5458.72              | 49.81               | -4.19                   | 54                          | 41.19                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                        | *                                                                                           | 5530                 | 99.65               | -                       | -                           | 90.85                     | 32.44                         | 9.41                    | 33.05                      | 100                  | 121                     | P                       | H               |
|                                        | *                                                                                           | 5530                 | 90.27               | -                       | -                           | 81.47                     | 32.44                         | 9.41                    | 33.05                      | 100                  | 121                     | A                       | H               |
|                                        |                                                                                             | 5744.525             | 50.17               | -18.03                  | 68.2                        | 40.46                     | 32.98                         | 9.88                    | 33.15                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5458.24              | 56.21               | -17.79                  | 74                          | 47.59                     | 32.35                         | 9.29                    | 33.02                      | 285                  | 79                      | P                       | V               |
|                                        |                                                                                             | 5464                 | 56.53               | -11.67                  | 68.2                        | 47.89                     | 32.37                         | 9.29                    | 33.02                      | 285                  | 79                      | P                       | V               |
|                                        |                                                                                             | 5459.2               | 48.84               | -5.16                   | 54                          | 40.22                     | 32.35                         | 9.29                    | 33.02                      | 285                  | 79                      | A                       | V               |
|                                        | *                                                                                           | 5530                 | 97.82               | -                       | -                           | 89.02                     | 32.44                         | 9.41                    | 33.05                      | 285                  | 79                      | P                       | V               |
|                                        | *                                                                                           | 5530                 | 88.05               | -                       | -                           | 79.25                     | 32.44                         | 9.41                    | 33.05                      | 285                  | 79                      | A                       | V               |
|                                        |                                                                                             | 5760.905             | 49.63               | -18.57                  | 68.2                        | 39.82                     | 33.02                         | 9.95                    | 33.16                      | 285                  | 79                      | P                       | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5366.56              | 49.54               | -24.46                  | 74                          | 41.11                     | 32.27                         | 9.19                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5462.56              | 48.77               | -19.43                  | 68.2                        | 40.13                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5436.88              | 41.15               | -12.85                  | 54                          | 32.58                     | 32.33                         | 9.26                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                        | *                                                                                           | 5610                 | 101.36              | -                       | -                           | 92.24                     | 32.65                         | 9.55                    | 33.08                      | 100                  | 121                     | P                       | H               |
|                                        | *                                                                                           | 5610                 | 91.78               | -                       | -                           | 82.66                     | 32.65                         | 9.55                    | 33.08                      | 100                  | 121                     | A                       | H               |
|                                        |                                                                                             | 5727.9               | 51.64               | -16.56                  | 68.2                        | 42.02                     | 32.94                         | 9.81                    | 33.13                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5359.12              | 49.92               | -24.08                  | 74                          | 41.51                     | 32.25                         | 9.19                    | 33.03                      | 295                  | 79                      | P                       | V               |
|                                        |                                                                                             | 5468.8               | 48.39               | -19.81                  | 68.2                        | 39.75                     | 32.37                         | 9.29                    | 33.02                      | 295                  | 79                      | P                       | V               |
|                                        |                                                                                             | 5441.2               | 40.87               | -13.13                  | 54                          | 32.3                      | 32.33                         | 9.26                    | 33.02                      | 295                  | 79                      | A                       | V               |
|                                        | *                                                                                           | 5610                 | 97.66               | -                       | -                           | 88.54                     | 32.65                         | 9.55                    | 33.08                      | 295                  | 79                      | P                       | V               |
|                                        | *                                                                                           | 5610                 | 88.72               | -                       | -                           | 79.6                      | 32.65                         | 9.55                    | 33.08                      | 295                  | 79                      | A                       | V               |
|                                        |                                                                                             | 5736.125             | 50.31               | -17.89                  | 68.2                        | 40.6                      | 32.98                         | 9.88                    | 33.15                      | 295                  | 79                      | P                       | V               |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                              | 11060                | 47.34               | -26.66                  | 74                          | 56.68                     | 39.11                         | 15.13                   | 63.87                      | 100                  | 0                       | P                       | H               |
|                                        |                                                              | 16590                | 44.28               | -23.92                  | 68.2                        | 50.11                     | 37.76                         | 18.81                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              | 11060                | 46.22               | -27.78                  | 74                          | 55.56                     | 39.11                         | 15.13                   | 63.87                      | 100                  | 0                       | P                       | V               |
|                                        |                                                              | 16590                | 43.86               | -24.34                  | 68.2                        | 49.69                     | 37.76                         | 18.81                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                              | 11220                | 46.57               | -27.43                  | 74                          | 55.7                      | 38.9                          | 15.25                   | 63.57                      | 100                  | 0                       | P                       | H               |
|                                        |                                                              | 16830                | 45.55               | -22.65                  | 68.2                        | 49.33                     | 39.59                         | 19                      | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              | 11220                | 47.33               | -26.67                  | 74                          | 56.46                     | 38.9                          | 15.25                   | 63.57                      | 100                  | 0                       | P                       | V               |
|                                        |                                                              | 16830                | 45.04               | -23.16                  | 68.2                        | 48.82                     | 39.59                         | 19                      | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                 | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                        | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**Band 3 - Straddle Channel**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI                         | Note                                                         | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------------|--------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                         |                                                              |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                            |                                                              | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 144<br>5720MHz | *                                                            | 5720      | 110.46     | -      | -          | 100.84 | 32.94    | 9.81   | 33.13  | 100    | 117     | P     | H     |
|                              | *                                                            | 5720      | 102.3      | -      | -          | 92.68  | 32.94    | 9.81   | 33.13  | 100    | 117     | A     | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              | *                                                            | 5720      | 105.82     | -      | -          | 96.2   | 32.94    | 9.81   | 33.13  | 352    | 84      | P     | V     |
|                              | *                                                            | 5720      | 98.34      | -      | -          | 88.72  | 32.94    | 9.81   | 33.13  | 352    | 84      | A     | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                       | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                              | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



**Band 3 - Straddle Channel**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                     | 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>802.11a<br/>CH 144<br/>5720MHz</b> |                                                                                             | 11440                | 45.74               | -28.26                  | 74                          | 54.6                    | 38.59                         | 15.4                    | 63.13                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 17160                | 48.65               | -19.55                  | 68.2                        | 49.82                   | 40.8                          | 19.21                   | 61.53                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 11440                | 45.45               | -28.55                  | 74                          | 54.31                   | 38.59                         | 15.4                    | 63.13                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 17160                | 48.35               | -19.85                  | 68.2                        | 49.52                   | 40.8                          | 19.21                   | 61.53                      | 100                  | 0                       | P                     | 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 - Straddle Channel**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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) |
|----------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 144<br>5720MHz | *                                                            | 5720                 | 109.29              | -                       | -                           | 99.67                   | 32.94                         | 9.81                    | 33.13                      | 100                  | 117                     | P                     | H             |
|                                        | *                                                            | 5720                 | 100.92              | -                       | -                           | 91.3                    | 32.94                         | 9.81                    | 33.13                      | 100                  | 117                     | A                     | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        | *                                                            | 5720                 | 105.12              | -                       | -                           | 95.5                    | 32.94                         | 9.81                    | 33.13                      | 352                  | 84                      | P                     | V             |
|                                        | *                                                            | 5720                 | 96.99               | -                       | -                           | 87.37                   | 32.94                         | 9.81                    | 33.13                      | 352                  | 84                      | A                     | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.                                  |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |
|                                        | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 144<br>5720MHz |                                                                                             | 11440                | 46.42               | -27.58                  | 74                          | 55.28                   | 38.59                         | 15.4                    | 63.13                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             | 17160                | 49.56               | -18.64                  | 68.2                        | 50.73                   | 40.8                          | 19.21                   | 61.53                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             | 11440                | 45.74               | -28.26                  | 74                          | 54.6                    | 38.59                         | 15.4                    | 63.13                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             | 17160                | 48.99               | -19.21                  | 68.2                        | 50.16                   | 40.8                          | 19.21                   | 61.53                      | 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 3 - Straddle Channel**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|------|---------------------------------------------------------------------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 142<br>5710MHz | *    | 5710                                                                                        | 106.08              | -                       | -                           | 96.5                      | 32.9                          | 9.81                    | 33.13                      | 100                  | 116                     | P                       | H               |
|                                        | *    | 5710                                                                                        | 97.3                | -                       | -                           | 87.72                     | 32.9                          | 9.81                    | 33.13                      | 100                  | 116                     | A                       | H               |
|                                        |      |                                                                                             |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |      |                                                                                             |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |      |                                                                                             |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |      |                                                                                             |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        | *    | 5710                                                                                        | 101.7               | -                       | -                           | 92.12                     | 32.9                          | 9.81                    | 33.13                      | 351                  | 83                      | P                       | V               |
|                                        | *    | 5710                                                                                        | 93.28               | -                       | -                           | 83.7                      | 32.9                          | 9.81                    | 33.13                      | 351                  | 83                      | A                       | V               |
|                                        |      |                                                                                             |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | 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 - Straddle Channel**  
**WIFI 802.11ac VHT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 142<br>5710MHz |                                                                                             | 11420                | 45.54               | -28.46                  | 74                          | 54.42                     | 38.62                         | 15.39                   | 63.17                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17130                | 48.57               | -19.63                  | 68.2                        | 49.97                     | 40.82                         | 19.2                    | 61.77                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11420                | 47.06               | -26.94                  | 74                          | 55.94                     | 38.62                         | 15.39                   | 63.17                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17130                | 48.8                | -19.4                   | 68.2                        | 50.2                      | 40.82                         | 19.2                    | 61.77                      | 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 3 - Straddle Channel**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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) |
|----------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz | *                                                            | 5690                 | 101.54              | -                       | -                           | 92.05                   | 32.86                         | 9.75                    | 33.12                      | 100                  | 116                     | P                     | H             |
|                                        | *                                                            | 5690                 | 92.62               | -                       | -                           | 83.13                   | 32.86                         | 9.75                    | 33.12                      | 100                  | 116                     | A                     | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        | *                                                            | 5690                 | 97.48               | -                       | -                           | 87.99                   | 32.86                         | 9.75                    | 33.12                      | 287                  | 82                      | P                     | V             |
|                                        | *                                                            | 5690                 | 89.12               | -                       | -                           | 79.63                   | 32.86                         | 9.75                    | 33.12                      | 287                  | 82                      | A                     | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.                                  |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |
|                                        | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |                                                                                             | 11380                | 46.06               | -27.94                  | 74                          | 54.98                   | 38.66                         | 15.36                   | 63.23                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             | 17070                | 47.63               | -20.57                  | 68.2                        | 49.48                   | 40.86                         | 19.17                   | 62.23                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             | 11380                | 46.25               | -27.75                  | 74                          | 55.17                   | 38.66                         | 15.36                   | 63.23                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             | 17070                | 47.48               | -20.72                  | 68.2                        | 49.33                   | 40.86                         | 19.17                   | 62.23                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

## Emission below 1GHz

**WIFI 802.11ac VHT80 (LF @ 3m)**

| WIFI                    | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                    |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                       |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT80<br>LF |                                                                            | 98.31     | 23.17      | -20.33 | 43.5       | 38.45  | 15.79    | 1.39   | 32.48  | -      | -       | P     | H     |
|                         |                                                                            | 134.49    | 30.15      | -13.35 | 43.5       | 43.61  | 17.43    | 1.51   | 32.45  | -      | -       | P     | H     |
|                         |                                                                            | 155.82    | 29.79      | -13.71 | 43.5       | 43.91  | 16.61    | 1.61   | 32.43  | -      | -       | P     | H     |
|                         |                                                                            | 332.2     | 25.48      | -20.52 | 46         | 35.59  | 19.8     | 2.39   | 32.36  | -      | -       | P     | H     |
|                         |                                                                            | 632.5     | 27.81      | -18.19 | 46         | 30.64  | 26.38    | 3.15   | 32.46  | -      | -       | P     | H     |
|                         |                                                                            | 951.7     | 33.46      | -12.54 | 46         | 29.79  | 30.86    | 3.82   | 31.18  | 100    | 0       | P     | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            | 31.08     | 31.43      | -8.57  | 40         | 39.24  | 23.84    | 0.82   | 32.49  | 110    | 241     | P     | V     |
|                         |                                                                            | 35.4      | 29.57      | -10.43 | 40         | 39.94  | 21.3     | 0.82   | 32.49  | -      | -       | P     | V     |
|                         |                                                                            | 73.74     | 25.51      | -14.49 | 40         | 44.32  | 12.44    | 1.22   | 32.49  | -      | -       | P     | V     |
|                         |                                                                            | 461       | 24.48      | -21.52 | 46         | 30.63  | 23.4     | 2.77   | 32.36  | -      | -       | P     | V     |
|                         |                                                                            | 763.4     | 30.71      | -15.29 | 46         | 31.17  | 28.25    | 3.44   | 32.29  | -      | -       | P     | V     |
|                         |                                                                            | 949.6     | 33.38      | -12.62 | 46         | 29.82  | 30.77    | 3.82   | 31.2   | -      | -       | P     | 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>P</b> eak or <b>A</b> verage                                                                                                                          |
| H/V | <b>H</b> orizontal or <b>V</b> ertical                                                                                                                   |



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.    |         |
| 1       |      | ( 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”.



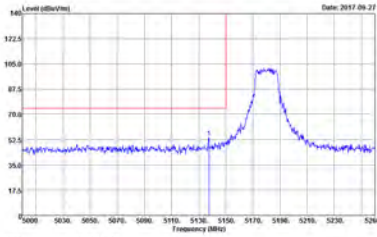
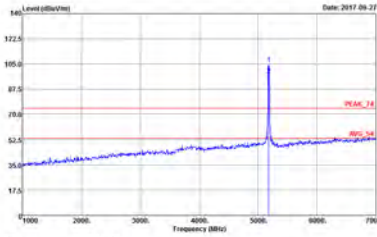
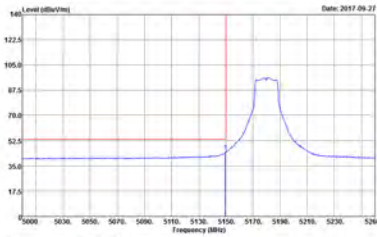
## Appendix D. Radiated Spurious Emission

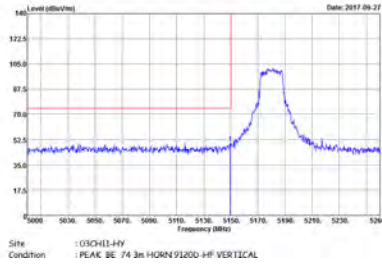
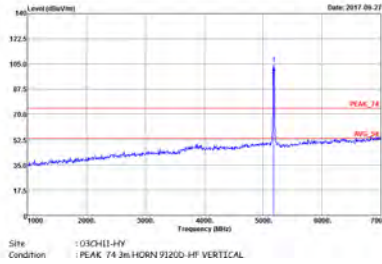
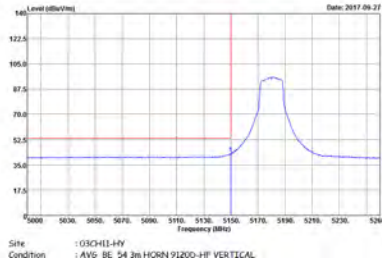
|                 |                     |                     |           |
|-----------------|---------------------|---------------------|-----------|
| Test Engineer : | Hao Hsu, and Ken Wu | Temperature :       | 24 ~ 26°C |
|                 |                     | Relative Humidity : | 50 ~ 55%  |

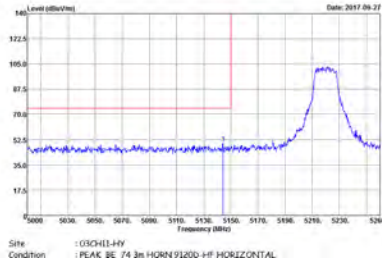
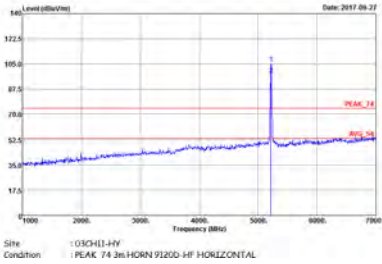
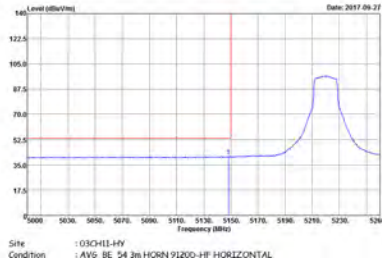
### Note symbol

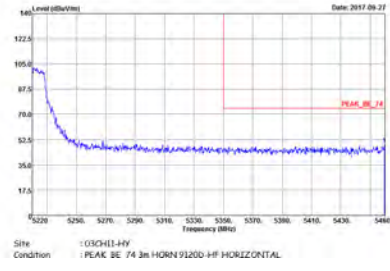
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

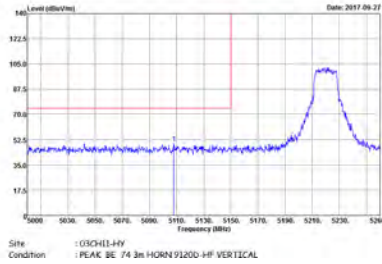
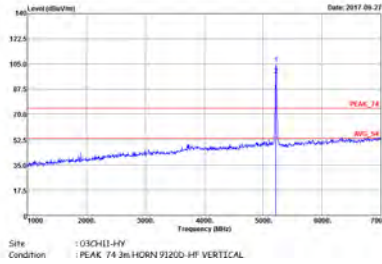
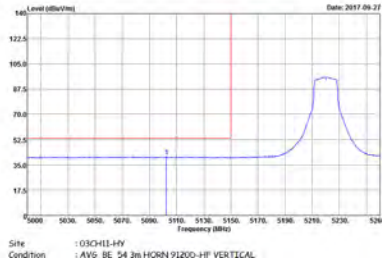
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

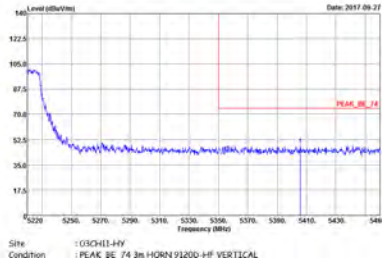
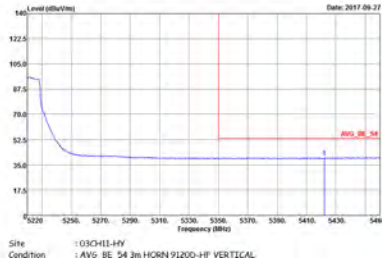
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                  |                                                                                                                                                                  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH36 5180MHz                                                                                                                                                |                                                                                                                                                                  |
| 1           | Horizontal                                                                                                                                                          | Fundamental                                                                                                                                                      |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BE 74 3m HORN 9120D -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK 74 3m HORN 9120D -HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BE 54 3m HORN 9120D -HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                                |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                            |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

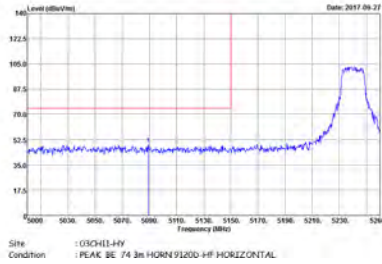
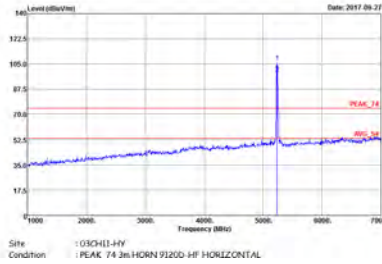
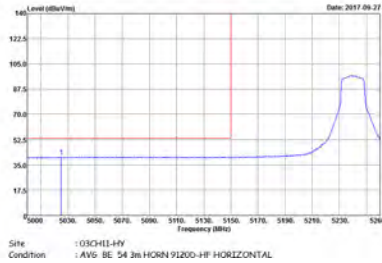
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                           |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |             |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11a CH44 5220MHz - R                                                                                                                                           |             |
| 1           | Horizontal                                                                                                                                                         | Fundamental |
| <b>Peak</b> |  <p>Site : 103CH11-HY<br/>Condition : PEAK_BE_18 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| <b>Avg.</b> |  <p>Site : 103CH11-HY<br/>Condition : AVG_BE_18 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

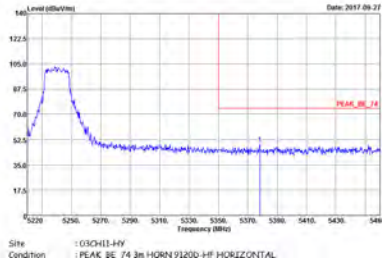
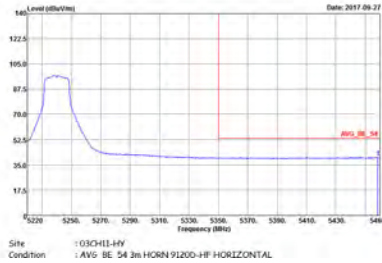
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                        |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                        |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

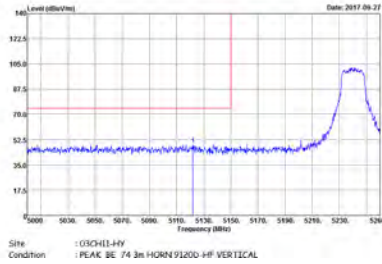
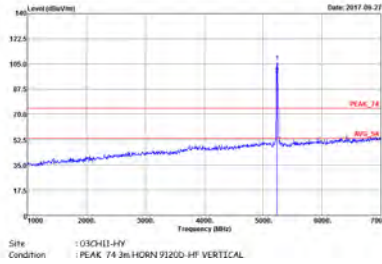
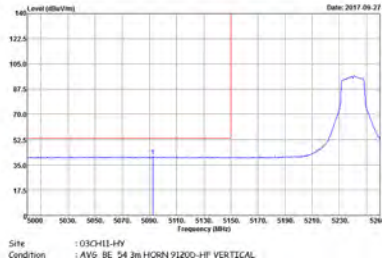


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                          |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |

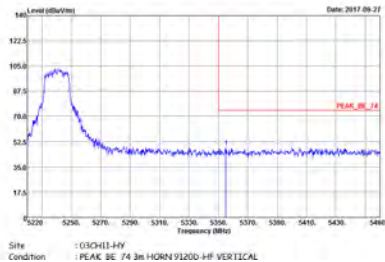
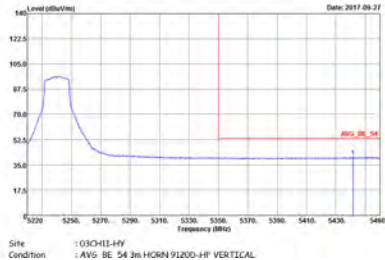


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |



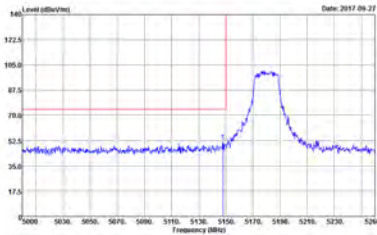
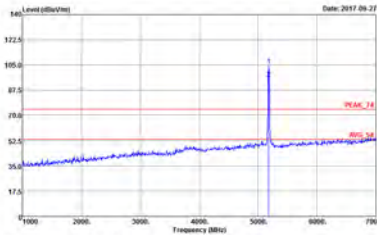
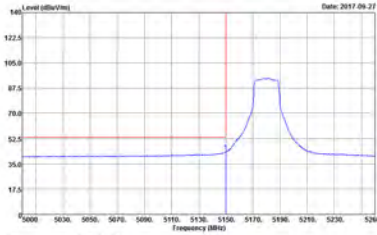
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                        |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

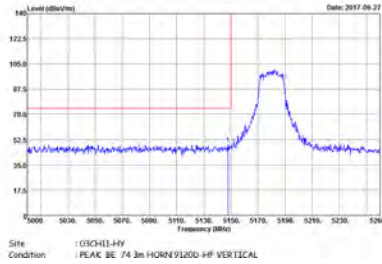
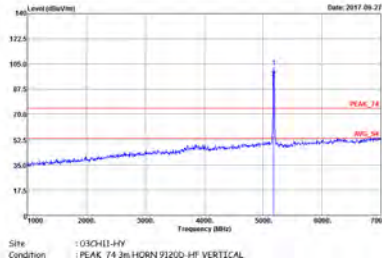
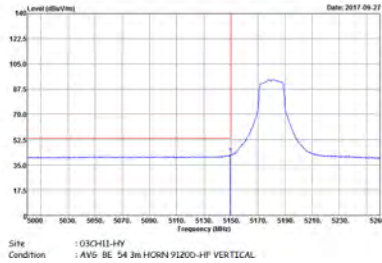


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                        |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

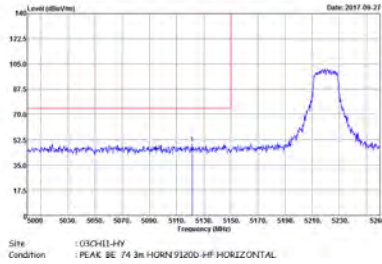
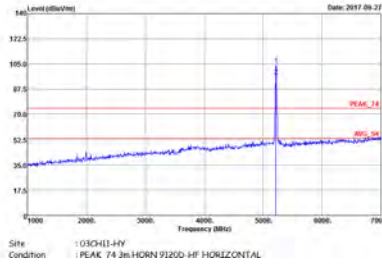
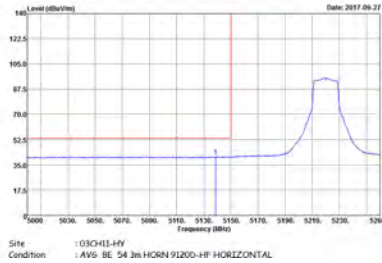


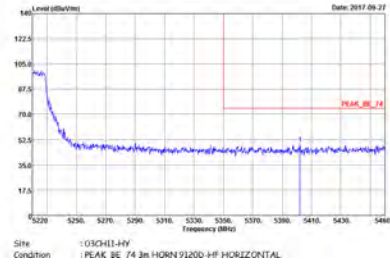
Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

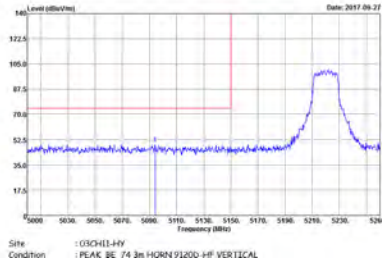
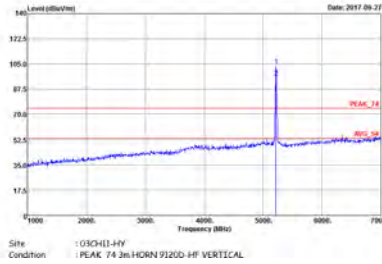
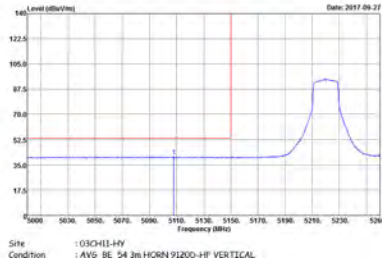
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                       |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                     |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

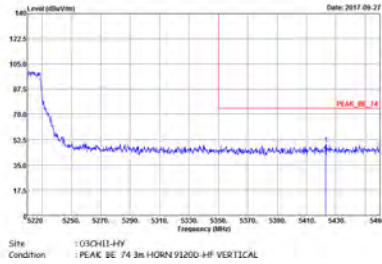
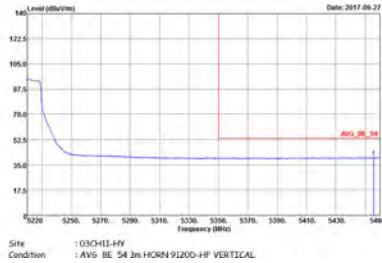


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - L                                                                                                                                   |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |

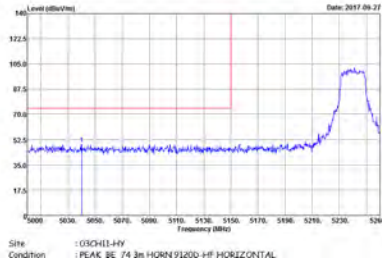
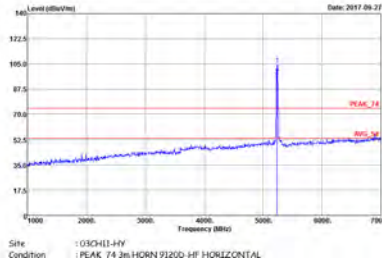
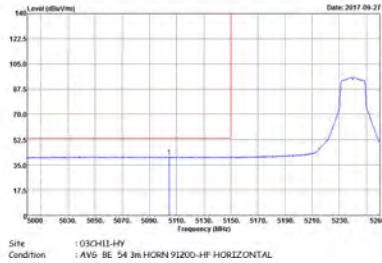
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11ac VHT20 CH44 5220MHz - R                                                                                                                                   |             |
| 1           | Horizontal                                                                                                                                                        | Fundamental |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/>Condition : PEAK_ME_18 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/>Condition : AVG_ME_18 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

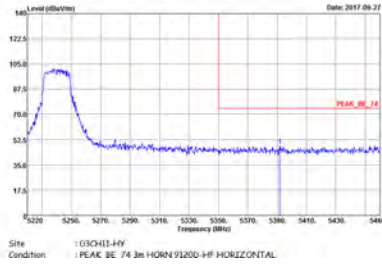
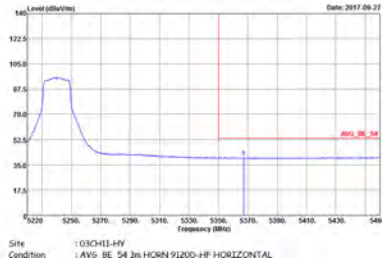


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - R                                                                                                                                 |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

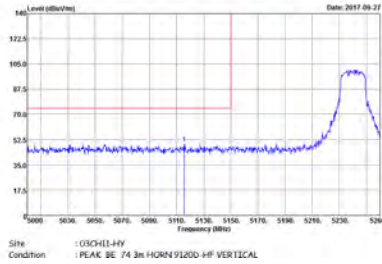
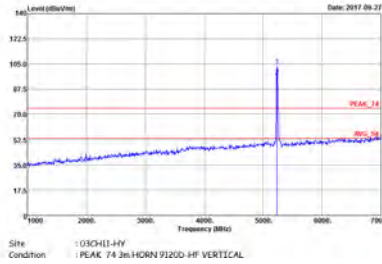
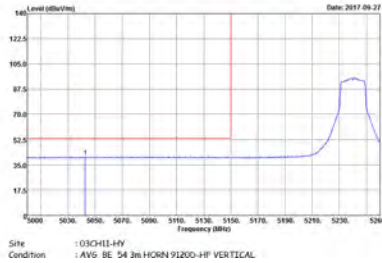


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                                                   |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |

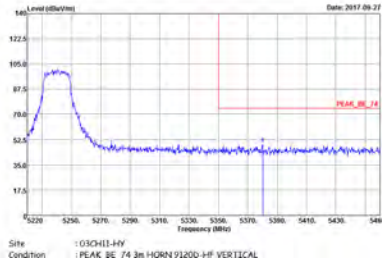
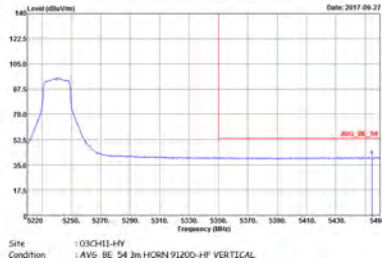


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                     |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

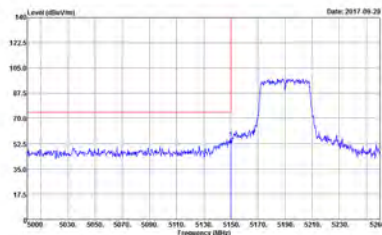
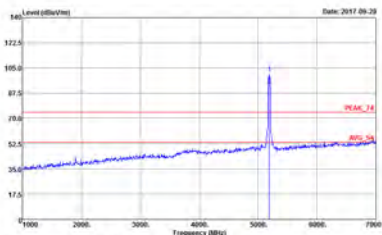
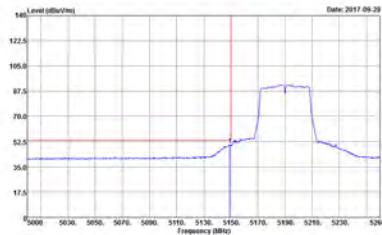


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                               |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                                                                                                  |             |
| 1    | Vertical                                                                                                                                                         | Fundamental |
| Peak |  <p>Site : 103CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 103CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

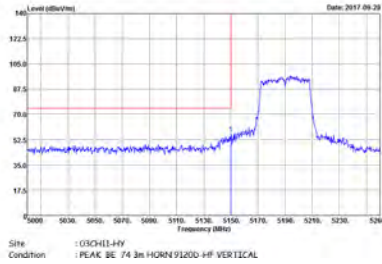
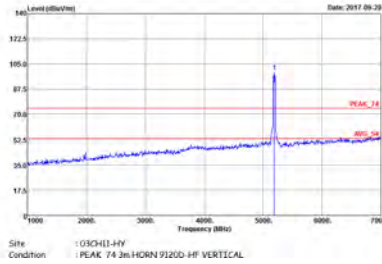
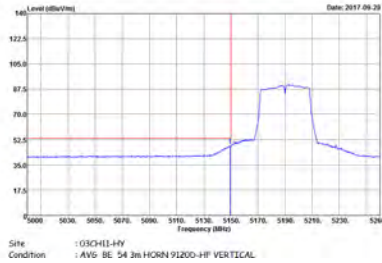
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                    |                                                                                                                                                                 |
| 1           | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                               |

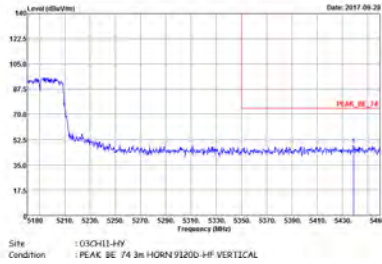
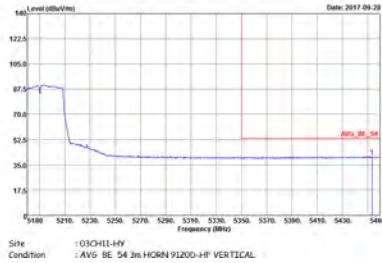


| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m |             |
|-------------|------------------------------------|-------------|
| ANT         | 802.11ac VHT40 CH38 5190MHz - R    |             |
| 1           | Horizontal                         | Fundamental |
| <b>Peak</b> |                                    | Left blank  |
| <b>Avg.</b> |                                    | Left blank  |

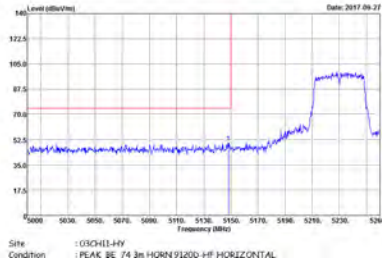
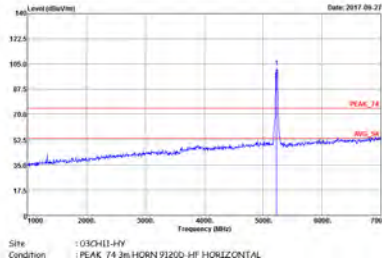
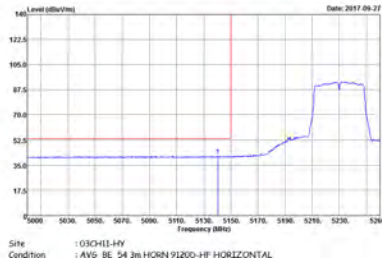


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

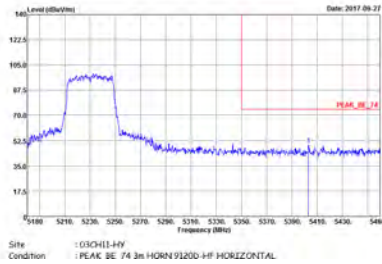
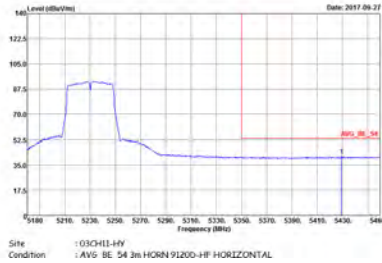


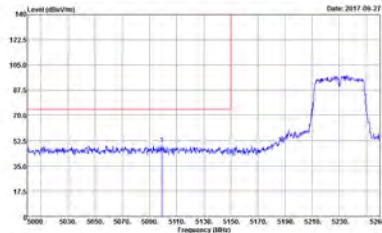
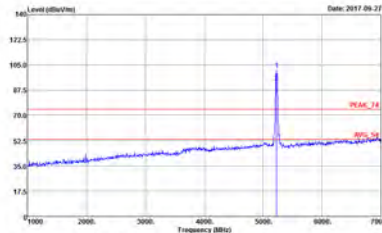
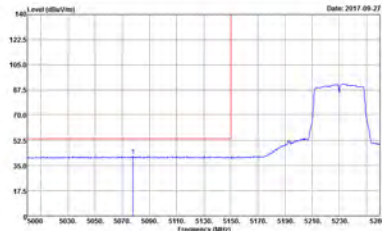
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R                                                     |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                   |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |



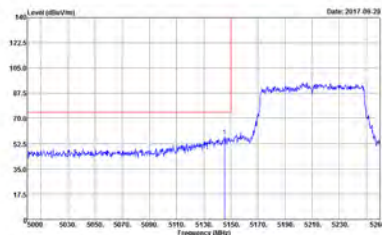
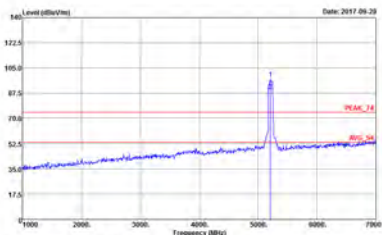
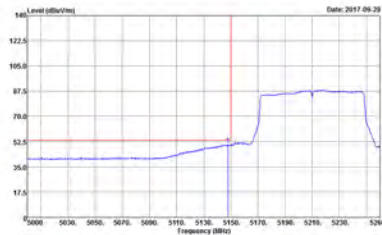
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - R                                                     |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

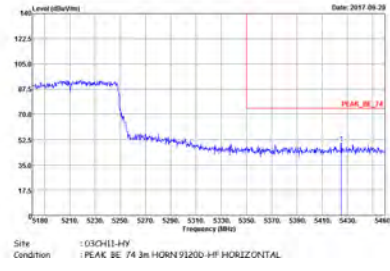
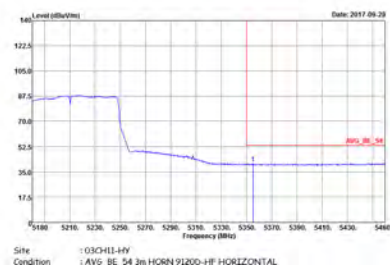
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CHI1-HY<br/>Condition : PEAK BE 74 3m HORN 9120D-HF VERTICAL</p>  |  <p>Site : 03CHI1-HY<br/>Condition : PEAK 74 3m HORN 9120D-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CHI1-HY<br/>Condition : AVG BE 54 3m HORN 9120D-HF VERTICAL</p> | Left blank                                                                                                                                                   |

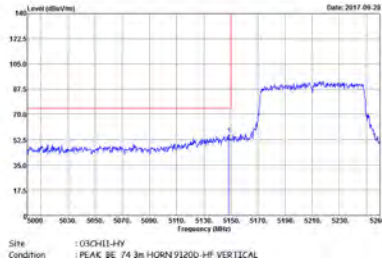
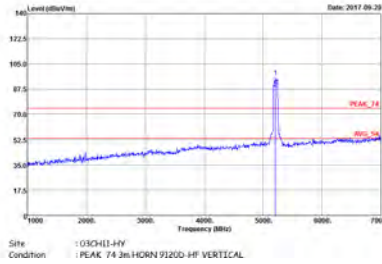
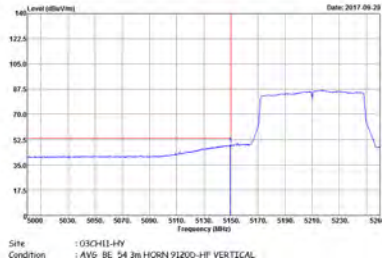


| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m |             |
|-------------|------------------------------------|-------------|
| ANT         | 802.11ac VHT40 CH46 5230MHz - R    |             |
| 1           | Vertical                           | Fundamental |
| <b>Peak</b> |                                    | Left blank  |
| <b>Avg.</b> |                                    | Left blank  |

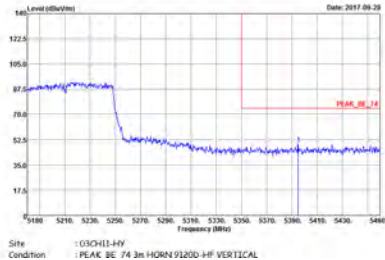
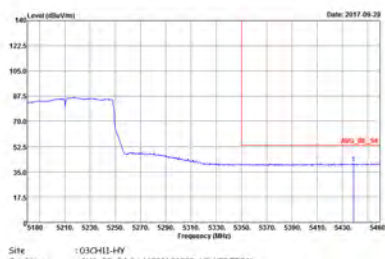
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                    |                                                                                                                                                                 |
| 1           | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                               |

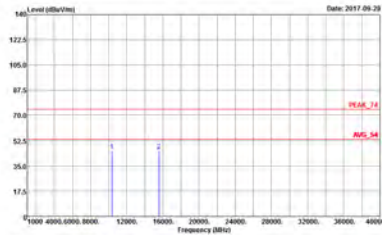
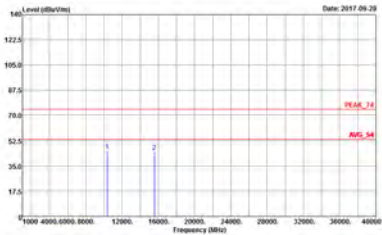
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                   |             |
| 1    | Horizontal                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

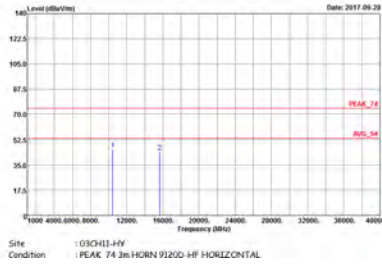
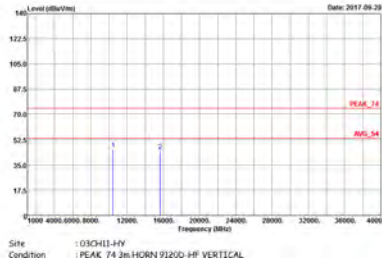


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                 |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

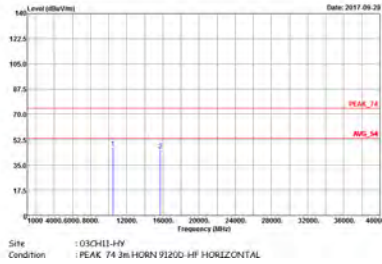
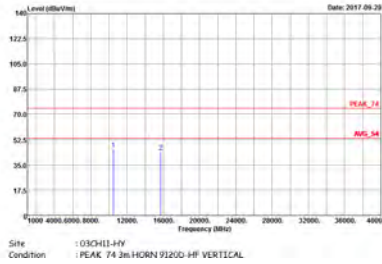
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                            |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CHILL-HY<br/> Condition : PEAK 74 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CHILL-HY<br/> Condition : PEAK 74 3m HORN 9120D-HF VERTICAL</p> |



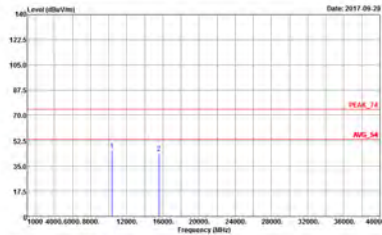
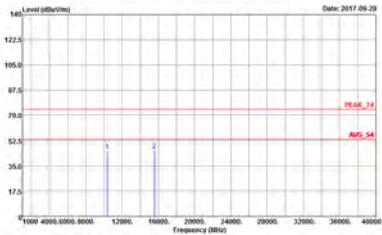
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH44 5220MHz                                                                                                                                           |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200 -Hf HORIZONTAL</p> |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200 -Hf VERTICAL</p> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                              |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



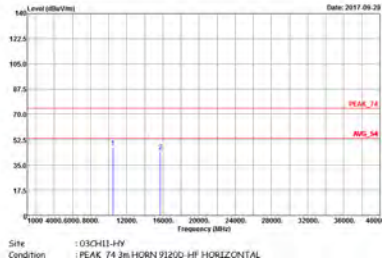
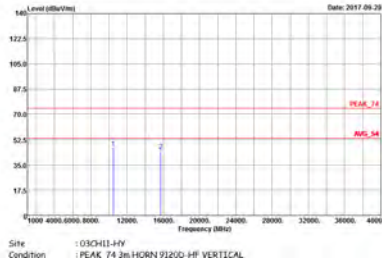
Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                             |                                                                                                                                                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH36 5180MHz                                                                                                                                   |                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                    | Vertical                                                                                                                                                     |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |



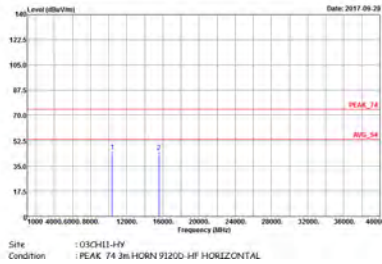
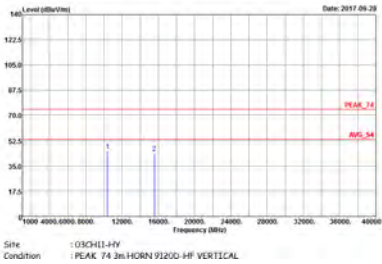
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                             |                                                                             |
|--------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH44 5220MHz                                                   |                                                                             |
| 1            | Horizontal                                                                    | Vertical                                                                    |
| Peak<br>Avg. | <p>Site : 03CHILL-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> | <p>Site : 03CHILL-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF VERTICAL</p> |



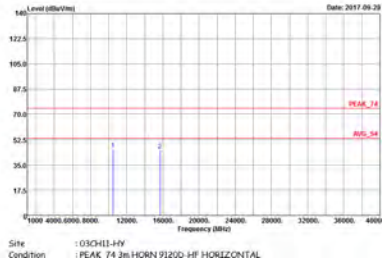
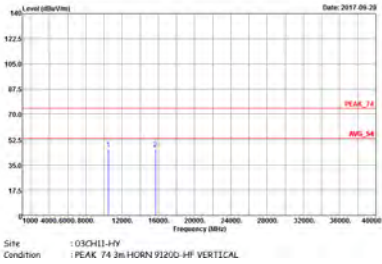
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH48 5240MHz                                                                                                                                     |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CHILL-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |  <p>Site : 03CHILL-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF VERTICAL</p> |



Band 1 5150~5250MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

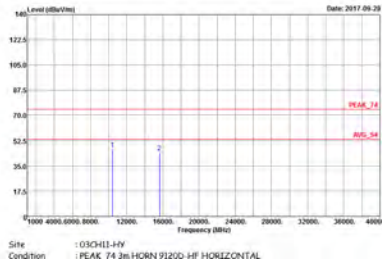
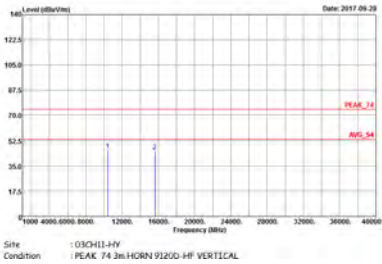
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                           |                                                                                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH38 5190MHz                                                                                                                                 |                                                                                                                                                            |
| 1            | Horizontal                                                                                                                                                  | Vertical                                                                                                                                                   |
| Peak<br>Avg. |  <p>Site: 03CH11-HY<br/>Condition: PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site: 03CH11-HY<br/>Condition: PEAK 74 3m HORN 91200-HF VERTICAL</p> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH46 5230MHz                                                                                                                                     |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CHILL-HY<br/>Condition : PEAK 74 3m HORN 91200 -Hf HORIZONTAL</p> |  <p>Site : 03CHILL-HY<br/>Condition : PEAK 74 3m HORN 91200 -Hf VERTICAL</p> |

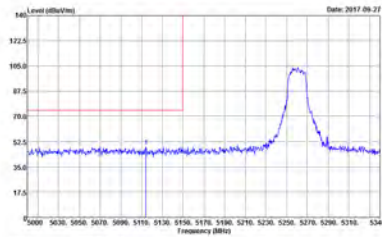
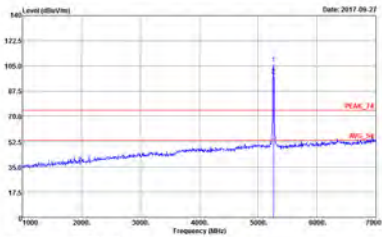
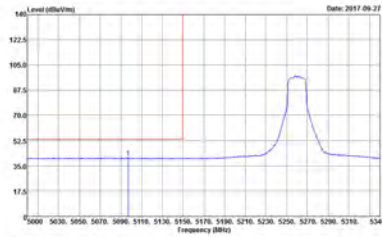


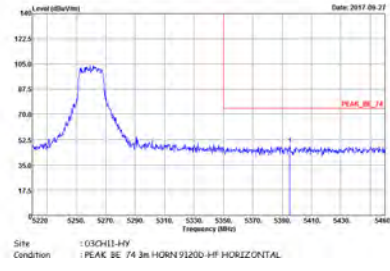
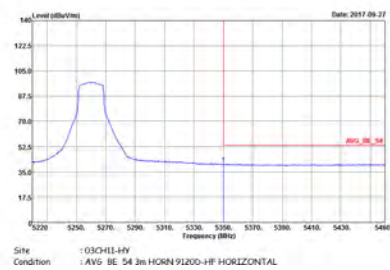
Band 1 5150~5250MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

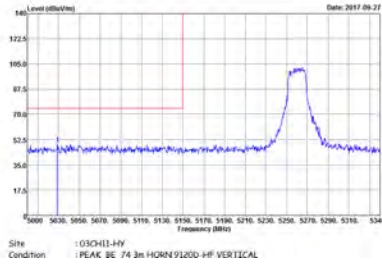
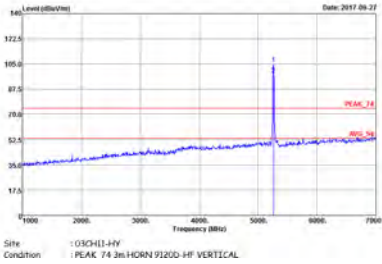
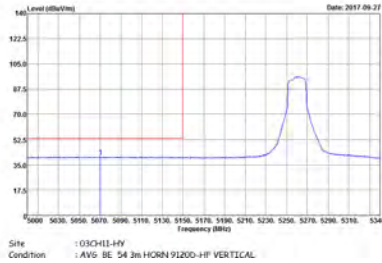
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                           |                                                                                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH42 5210MHz                                                                                                                                 |                                                                                                                                                            |
| 1            | Horizontal                                                                                                                                                  | Vertical                                                                                                                                                   |
| Peak<br>Avg. |  <p>Site: 03CH11-HY<br/>Condition: PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site: 03CH11-HY<br/>Condition: PEAK 74 3m HORN 91200-HF VERTICAL</p> |

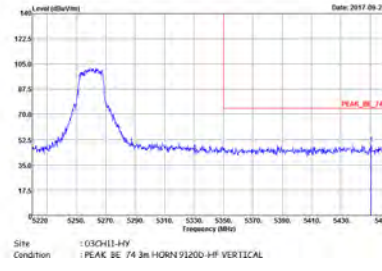
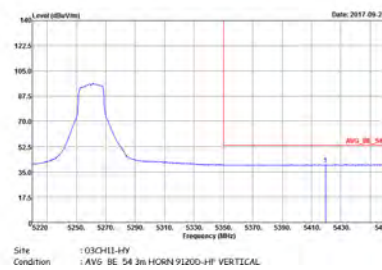


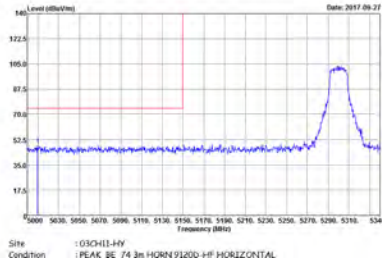
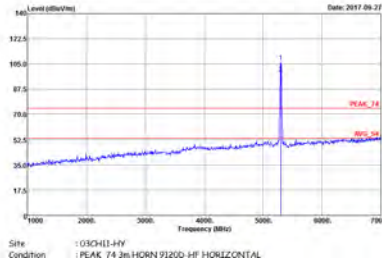
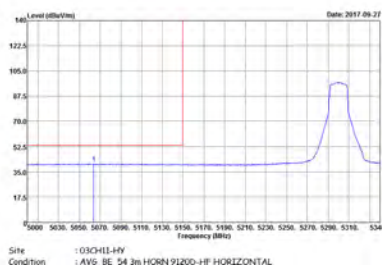
**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

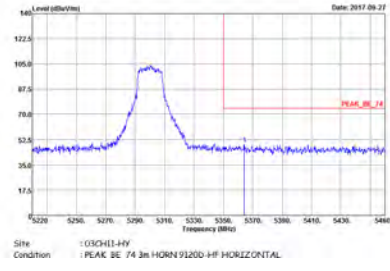
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                           |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 9120D -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 9120D -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 9120D -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

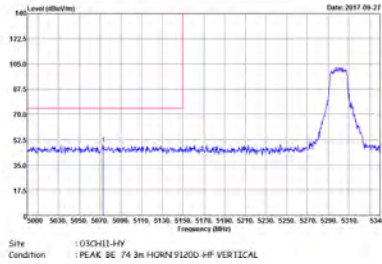
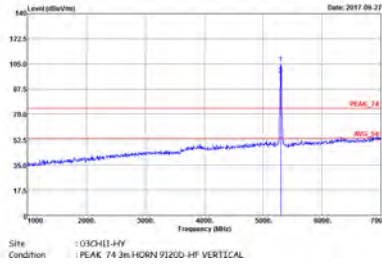
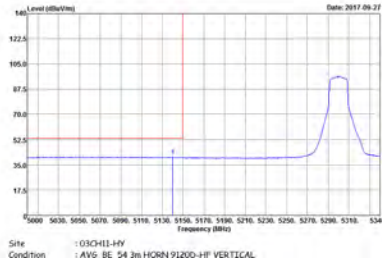
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

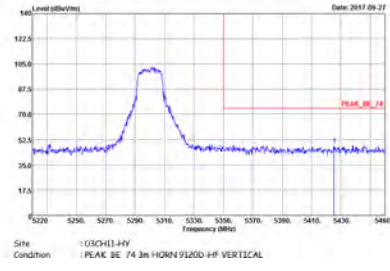
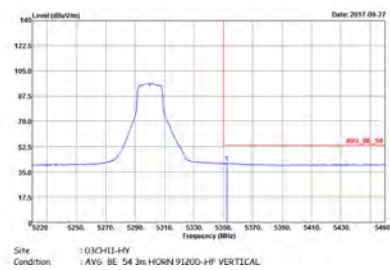
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                        |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

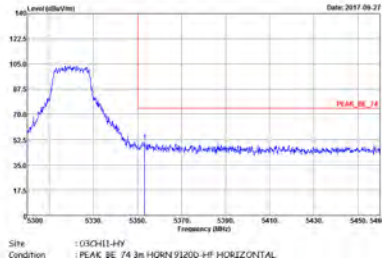
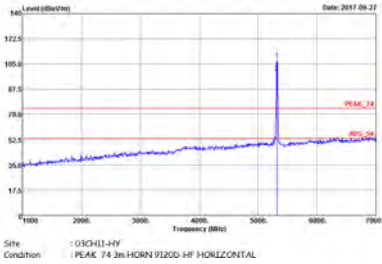
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                        |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

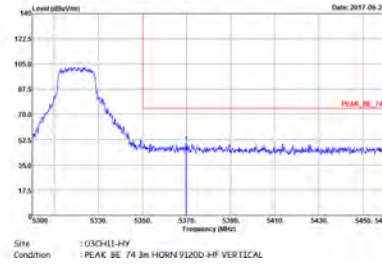
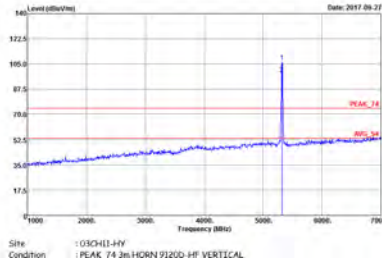
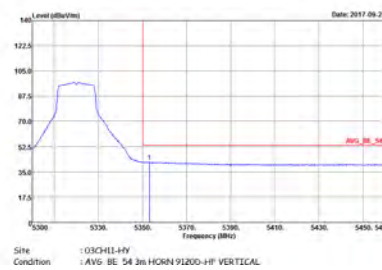
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH60 5300MHz - L                                                                                                                                          |                                                                                                                                                                |
| 1           | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                              |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                        |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

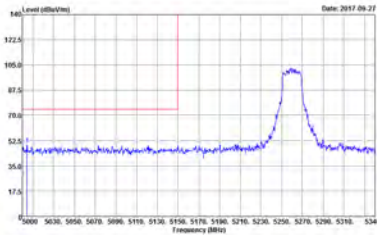
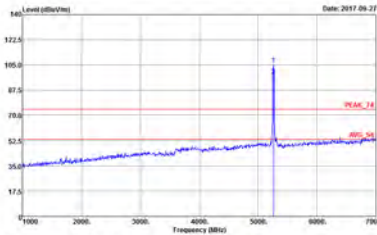
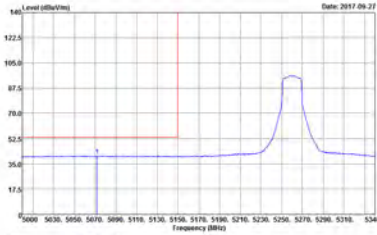
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                        |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                               |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

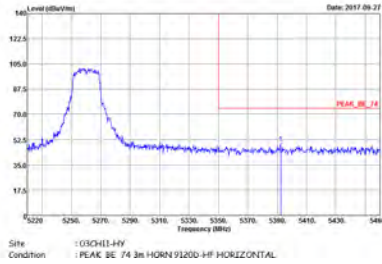
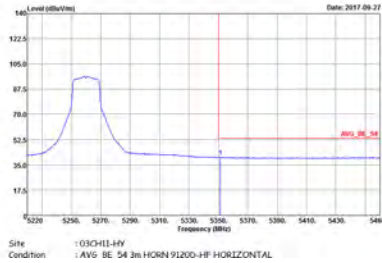
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                            |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

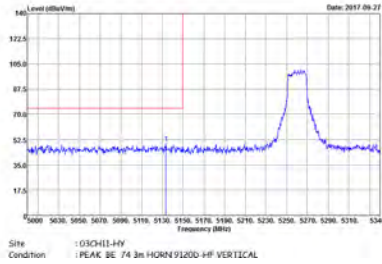
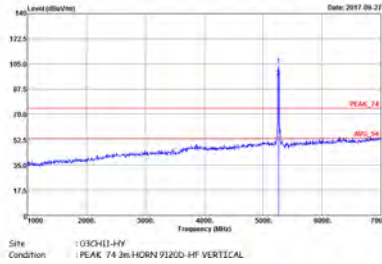
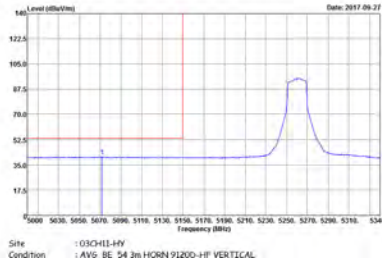


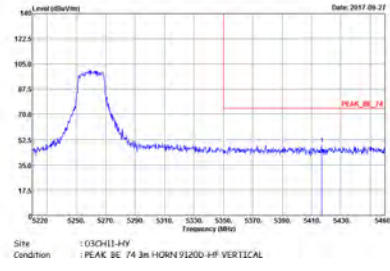
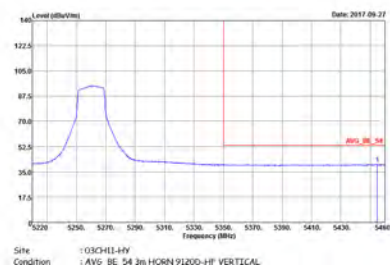
Band 2 5250~5350MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - L                                                                                                                                   |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |

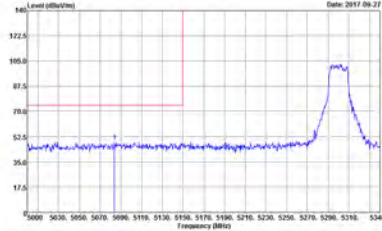
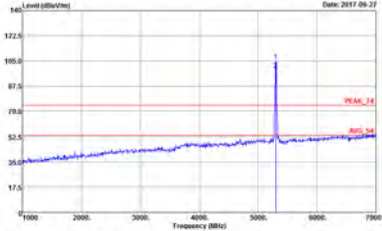
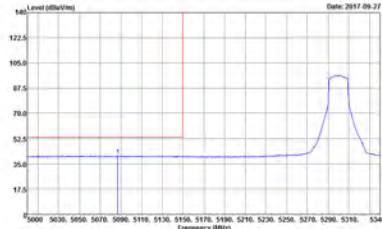


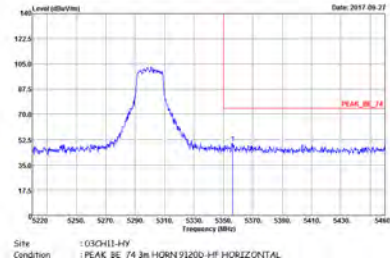
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - R                                                     |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

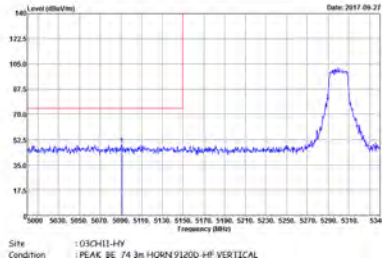
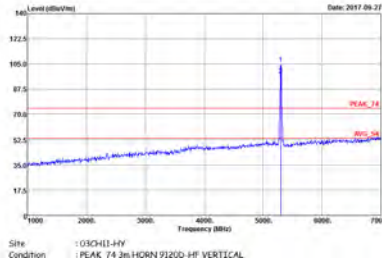
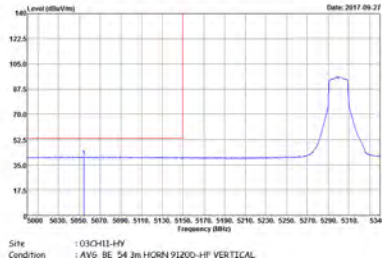
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                               |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - R                                                                                                                                  |             |
| 1    | Vertical                                                                                                                                                         | Fundamental |
| Peak |  <p>Site : 103CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 103CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

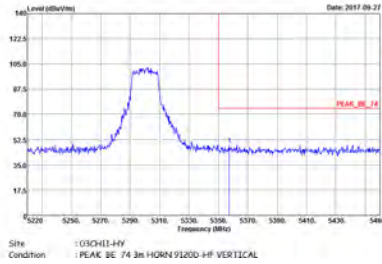
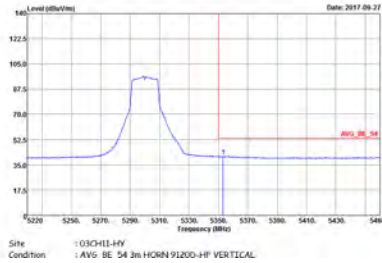


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - L                                                                                                                                    |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - R                                                                                                                                   |             |
| 1    | Horizontal                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

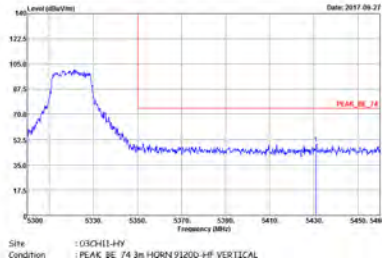
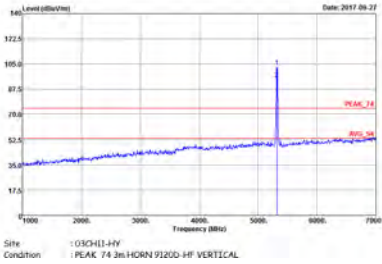
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - R                                                     |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

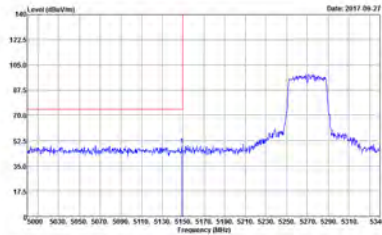
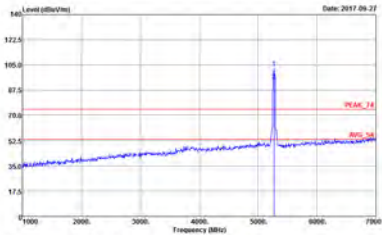
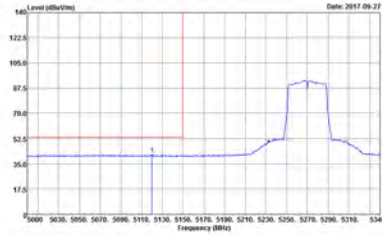


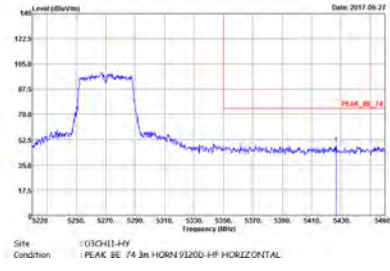
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                 |                                                                                    |
|------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH64 5320MHz                                                        |                                                                                    |
| 1    | Horizontal                                                                         | Fundamental                                                                        |
| Peak | <p>Site : 03CH11-4F<br/>Condition : PEAK_05_18 74 3m HORN 91200 -H- HORIZONTAL</p> | <p>Site : 03CH11-4F<br/>Condition : PEAK_05_18 74 3m HORN 91200 -H- HORIZONTAL</p> |
| Avg. | <p>Site : 03CH11-4F<br/>Condition : AVG_05_18 74 3m HORN 91200 -H- HORIZONTAL</p>  | Left blank                                                                         |

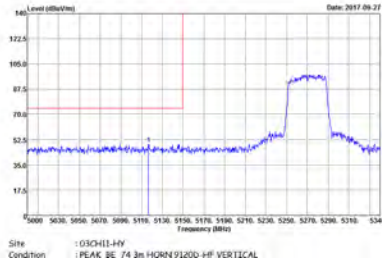
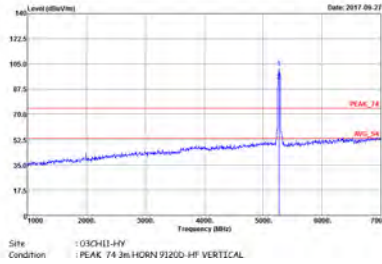
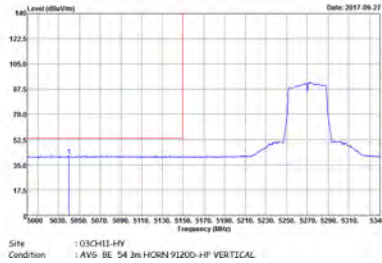
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH64 5320MHz                                                                                                                                     |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |



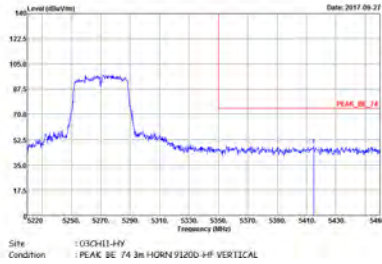
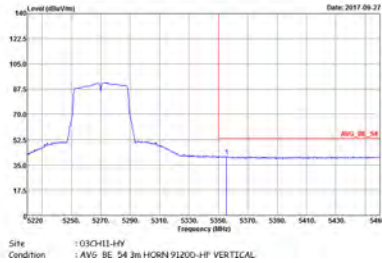
Band 2 5250~5350MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH54 5270 MHz - L                                                                                                                                  |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |

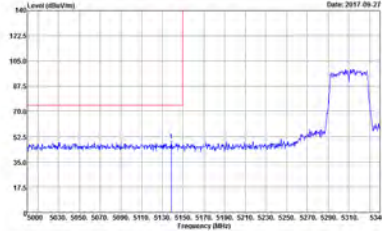
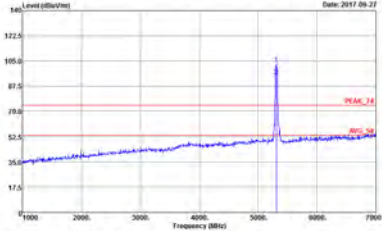
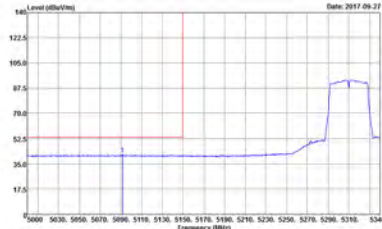
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                   |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH54 5270 MHz - R                                                                                                                                     |             |
| 1    | Horizontal                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 103CH11-HY<br/>Condition : : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 103CH11-HY<br/>Condition : : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH54 5270 MHz - L                                                                                                                                |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH54 5270 MHz - R                                                    |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

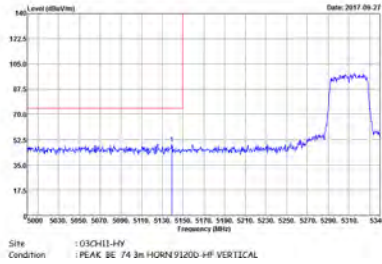
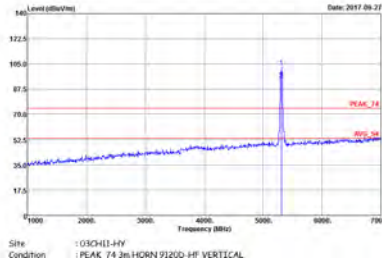
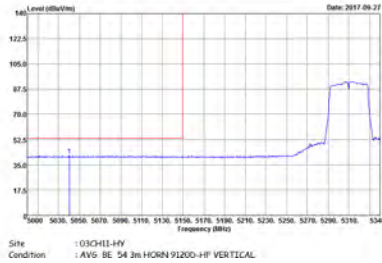


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH62 5310 MHz - L                                                                                                                                   |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

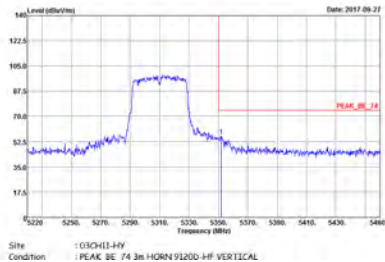
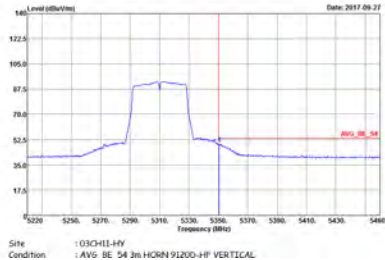


| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m |             |
|-------------|------------------------------------|-------------|
| ANT         | 802.11ac VHT40 CH62 5310 MHz - R   |             |
| 1           | Horizontal                         | Fundamental |
| <b>Peak</b> |                                    | Left blank  |
| <b>Avg.</b> |                                    | Left blank  |

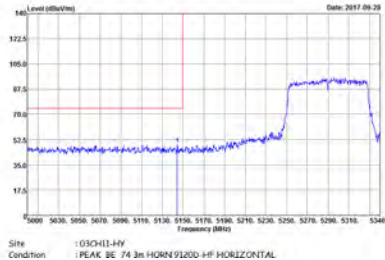
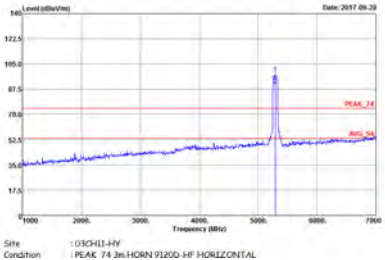
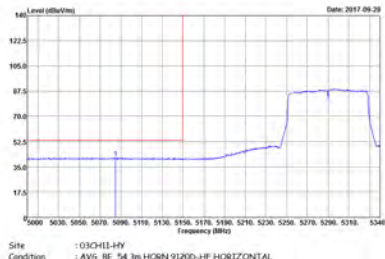


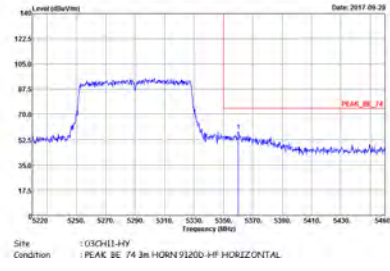
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH62 5310 MHz - L                                                    |                                                                                    |
| 1    | Vertical                                                                            | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |



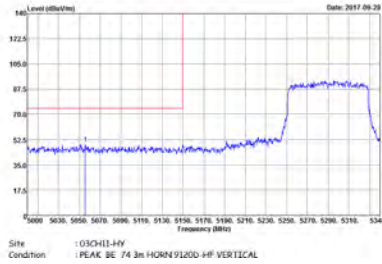
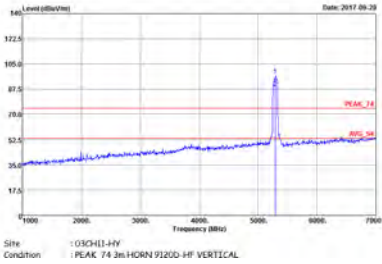
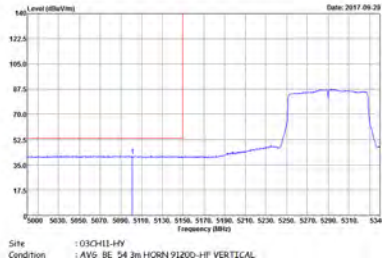
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH62 5310 MHz - R                                                    |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

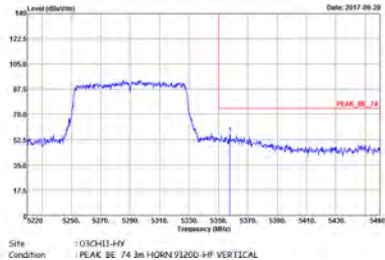
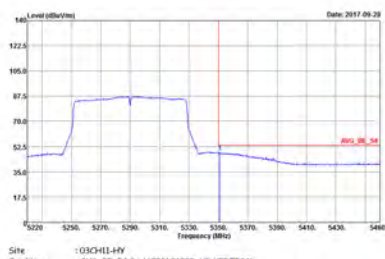
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                    |                                                                                                                                                                 |
| 1           | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                               |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                                    |             |
| 1    | Horizontal                                                                                                                                                         | Fundamental |
| Peak |  <p>Site : 103CH11-4F<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 103CH11-4F<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

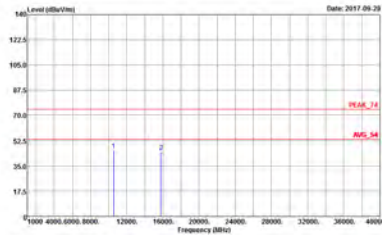
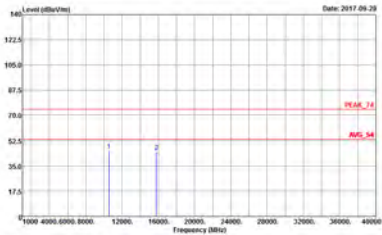


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

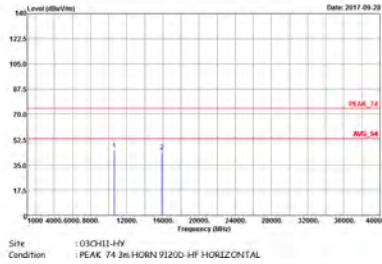
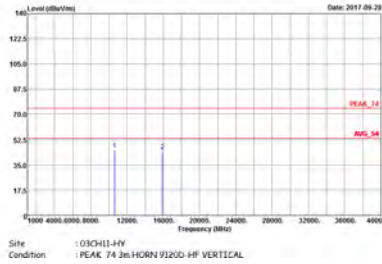


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                     |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

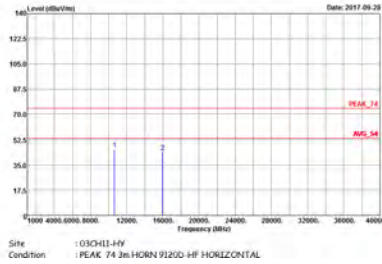
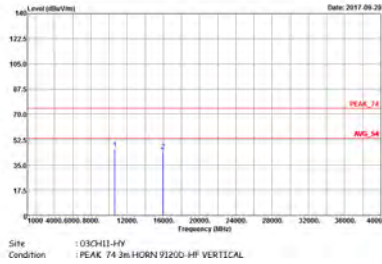
**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH52 5260MHz                                                                                                                                           |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4F<br/> Condition : PEAK 74 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CH11-4F<br/> Condition : PEAK 74 3m HORN 9120D-HF VERTICAL</p> |



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11a CH60 5300MHz                                                              |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



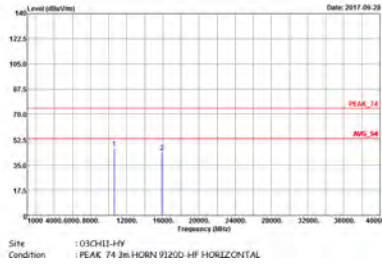
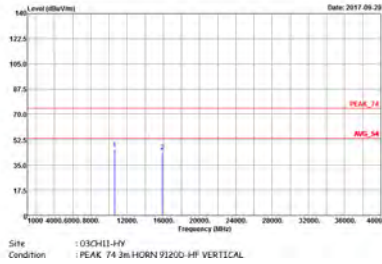
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11a CH64 5320MHz                                                              |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



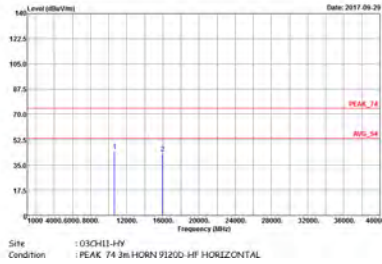
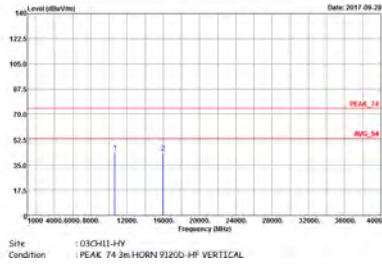
Band 2 5250~5350MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m |          |
|--------------|-----------------------------------|----------|
| ANT          | 802.11ac VHT20 CH52 5260MHz       |          |
| 1            | Horizontal                        | Vertical |
| Peak<br>Avg. |                                   |          |



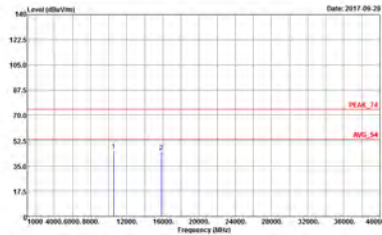
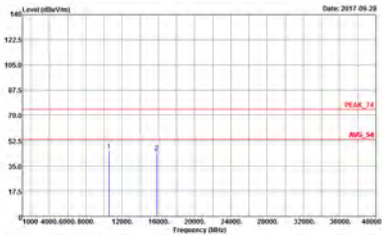
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH60 5300MHz                                                       |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



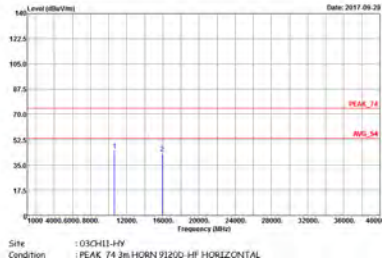
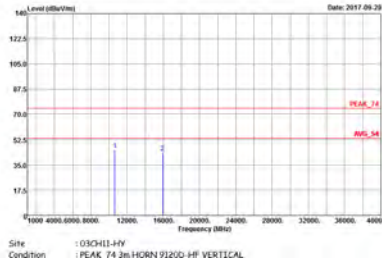
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH64 5320MHz                                                       |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



Band 2 5250~5350MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

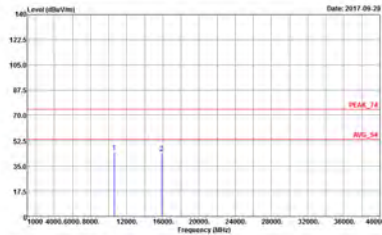
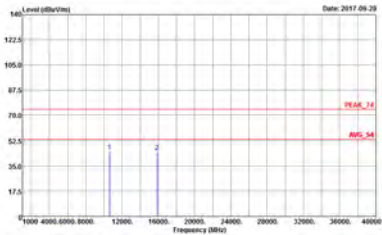
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                             |                                                                                                                                                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH54 5270                                                                                                                                      |                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                    | Vertical                                                                                                                                                     |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |



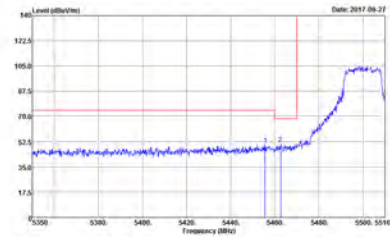
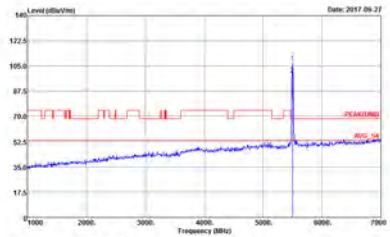
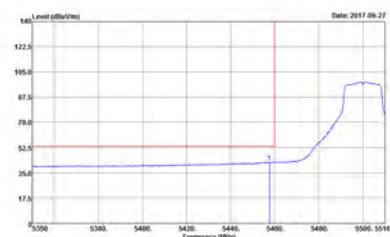
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH62 5310                                                                                                                                       |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf HORIZONTAL</p> |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf VERTICAL</p> |



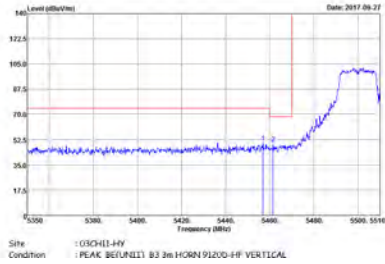
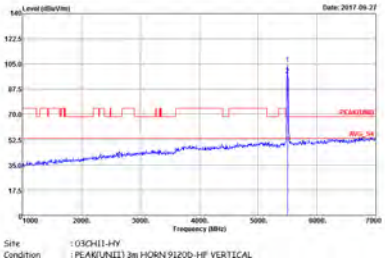
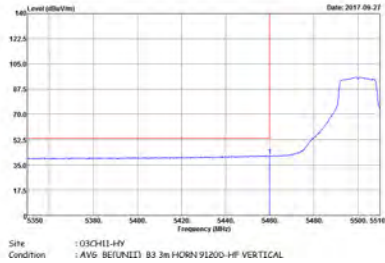
Band 2 5250~5350MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                             |                                                                                                                                                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH58 5290MHz                                                                                                                                   |                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                    | Vertical                                                                                                                                                     |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |

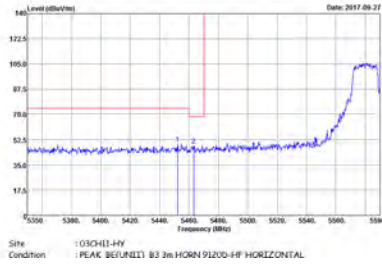
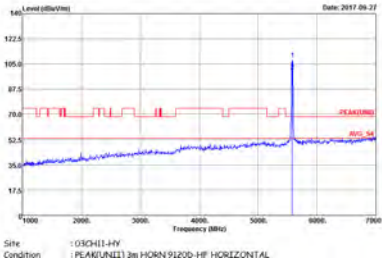
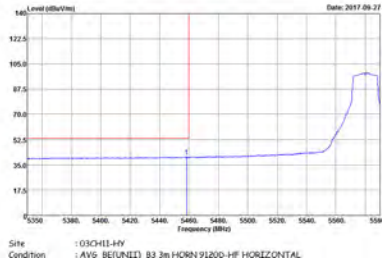
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                        |                                                                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH100 5500MHz                                                                                                                                                     |                                                                                                                                                                     |
| 1           | Horizontal                                                                                                                                                                | Fundamental                                                                                                                                                         |
| <b>Peak</b> |  <p>Site: 103CH11-HV<br/> Condition: : PEAK BEFUNE11 83 3m HORN 9120D-HF HORIZONTAL</p>  |  <p>Site: 103CH11-HV<br/> Condition: : PEAK/UNE11 3m HORN 9120D-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site: 103CH11-HV<br/> Condition: : AVG BEFUNE11 83 3m HORN 9120D-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                                   |

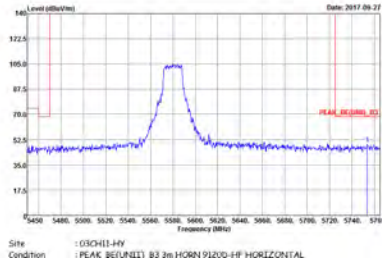


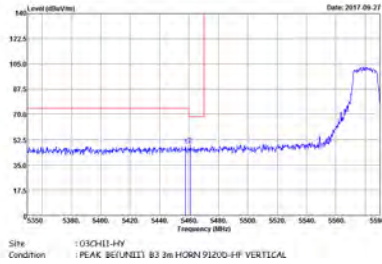
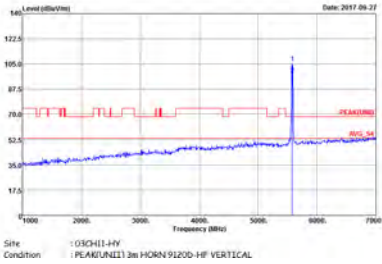
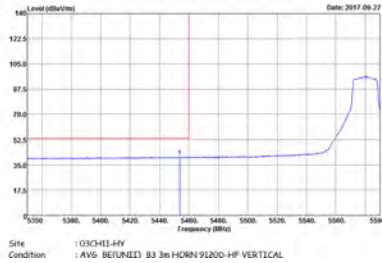
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                               |                                                                                    |
| 1    | Vertical                                                                            | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |



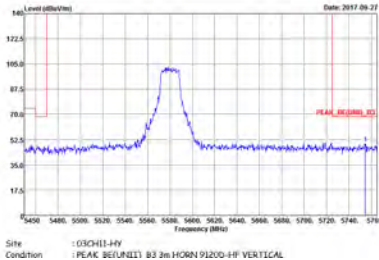
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                               |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |



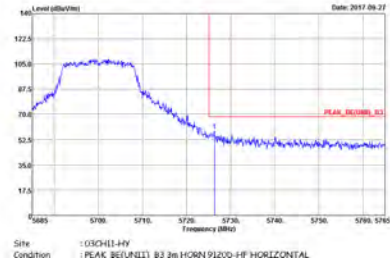
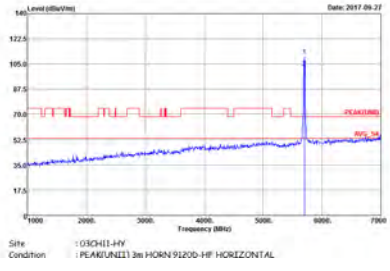
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                         |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                             |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4F<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4F<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4F<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |

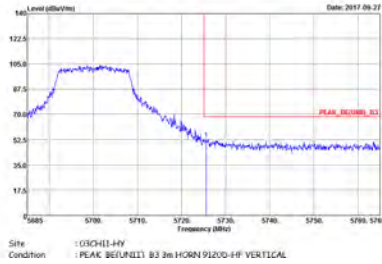
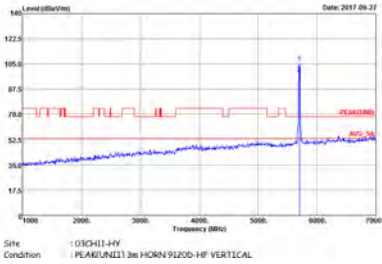


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                    |             |
| 1    | Vertical                                                                                     | Fundamental |
| Peak | <div></div> | Left blank  |



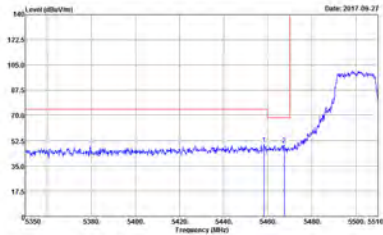
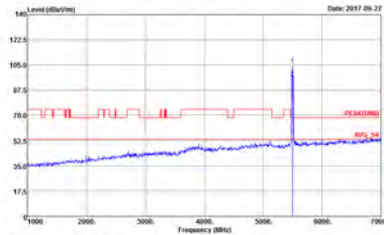
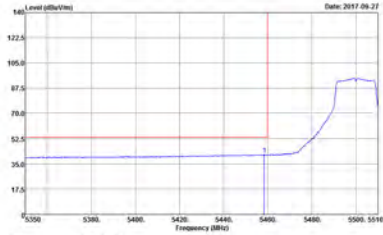
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                   |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                        |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF HORIZONTAL</p> |

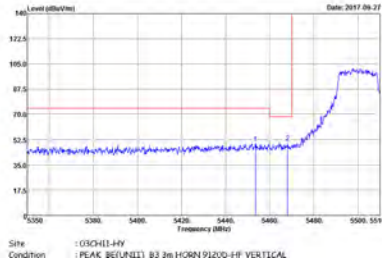
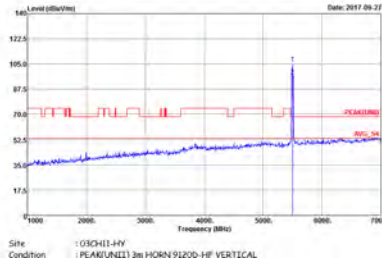
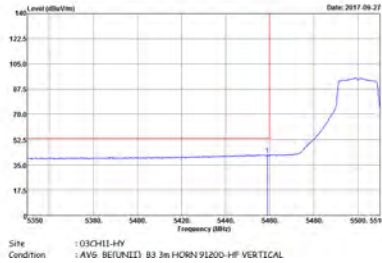


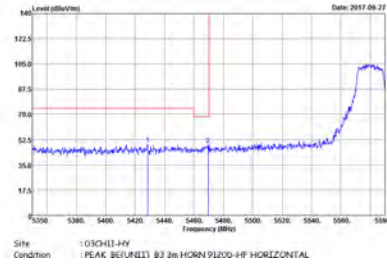
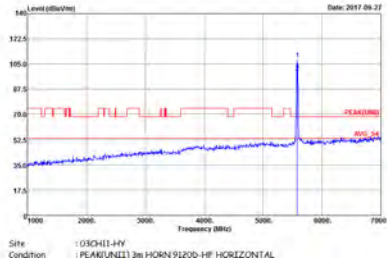
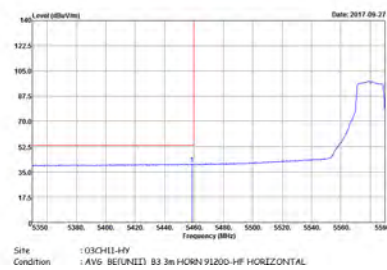
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                              |                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                           | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-4F<br/>Condition : PEAK (UNL1) B3 3m HORN 91200-4F VERTICAL</p> |  <p>Site : 03CH11-4F<br/>Condition : PEAK (UNL1) 3m HORN 91200-4F VERTICAL</p> |



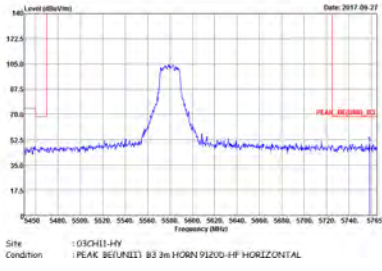
Band 3 5470~5725MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH100 5500MHz                                                                                                                                            |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                        |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK FUND11 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                         |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                     |                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH100 5500MHz                                                                                                                                           |                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                               | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UIN11) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                       |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - L                                                                                                                                        |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |

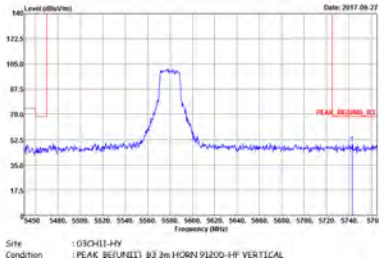


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - R                                                             |             |
| 1    | Horizontal                                                                                   | Fundamental |
| Peak | <div></div> | Left blank  |

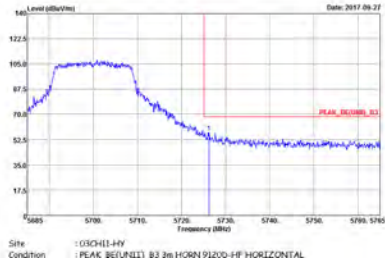
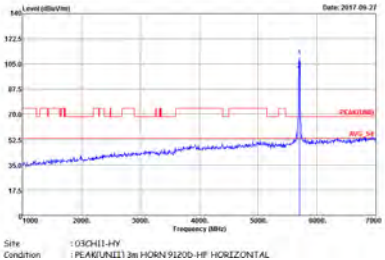


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - L   |             |
| 1    | Vertical                           | Fundamental |
| Peak |                                    |             |
| Avg. |                                    | Left blank  |

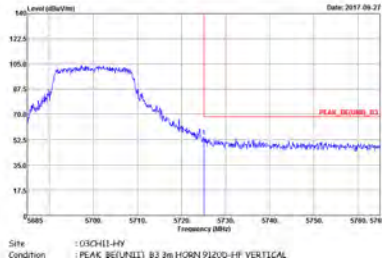
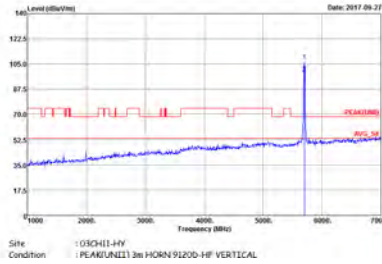


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - R                                                             |             |
| 1    | Vertical                                                                                     | Fundamental |
| Peak | <div></div> | Left blank  |



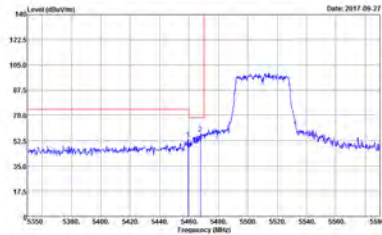
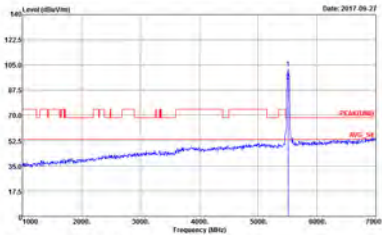
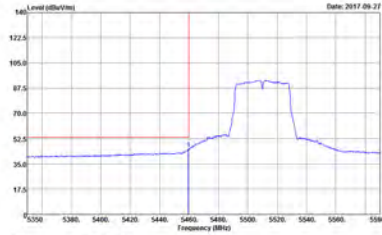
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH140 5700MHz                                                                                                                                            |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                        |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF HORIZONTAL</p> |



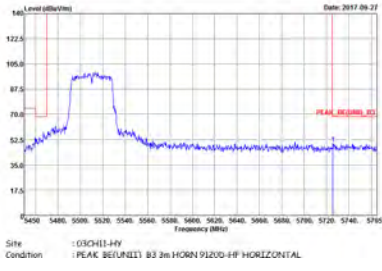
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH140 5700MHz                                                                                                                                          |                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF VERTICAL</p> |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF VERTICAL</p> |

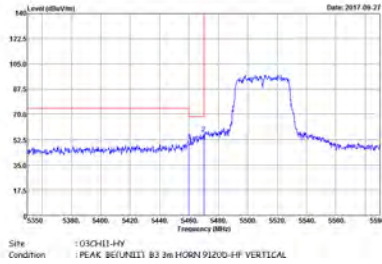
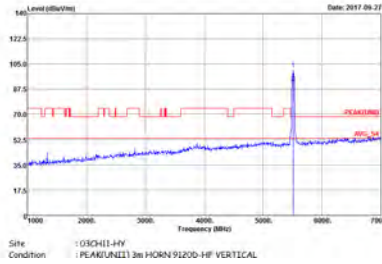
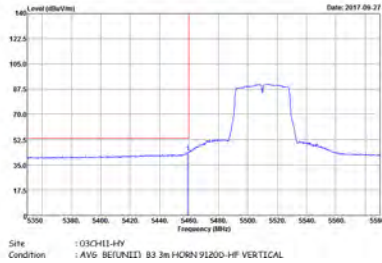


Band 3 5470~5725MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)

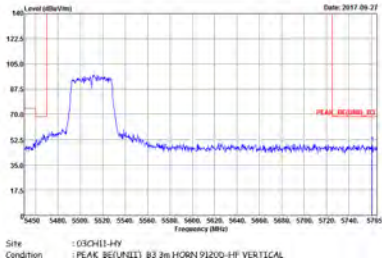
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - L                                                                                                                                        |                                                                                                                                                                         |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                             |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                              |

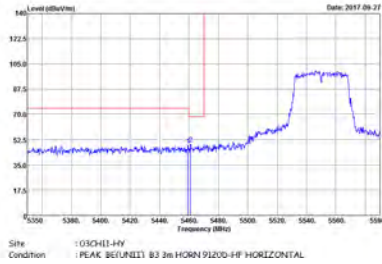
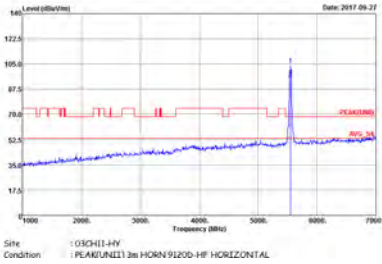
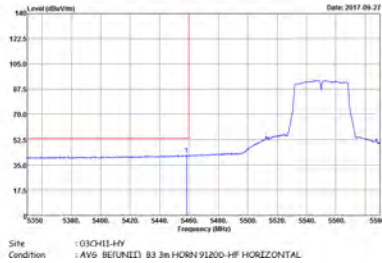


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

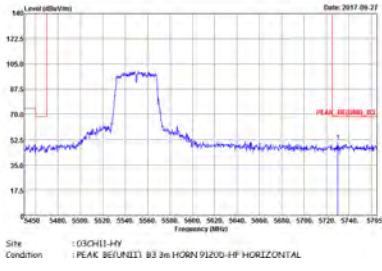
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                     |                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - L                                                                                                                                       |                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                               | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(FUN11) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(FUN11) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(FUN11) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                       |

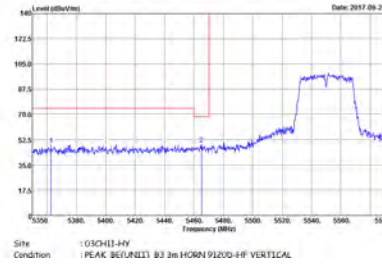
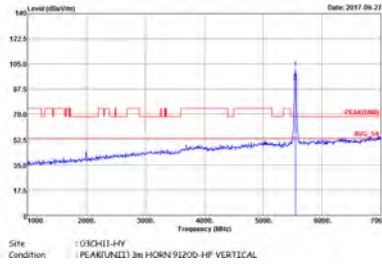
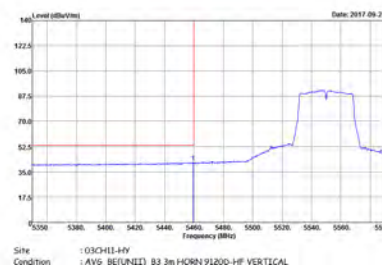


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R                                                  |             |
| 1    | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

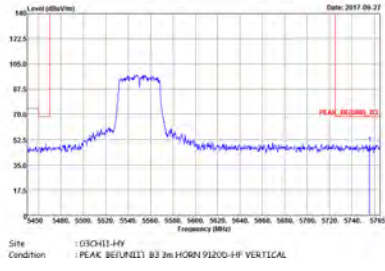
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                       |                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - L                                                                                                                                         |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                               | Fundamental                                                                                                                                                        |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(FUN11) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(FUN11) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(FUN11) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                         |

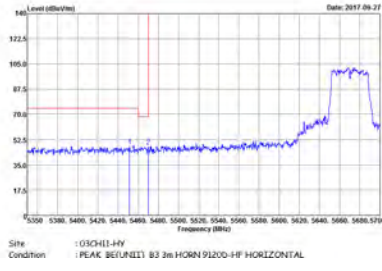
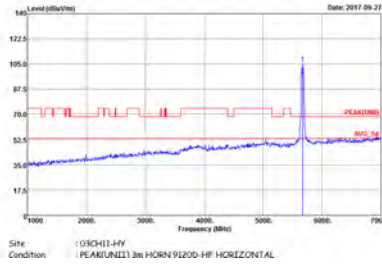
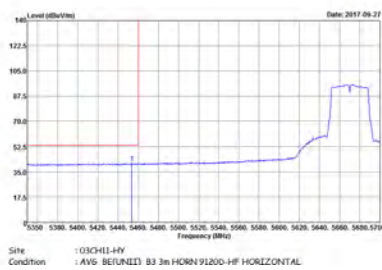


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

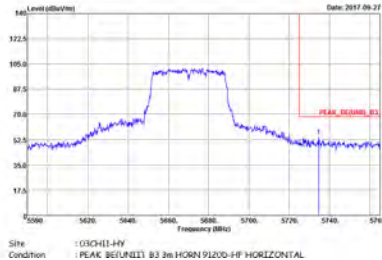
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - L                                                                                                                                      |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(FUN1) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(FUN1) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(FUN1) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |



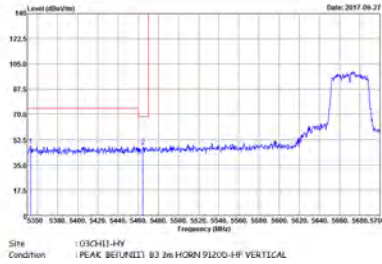
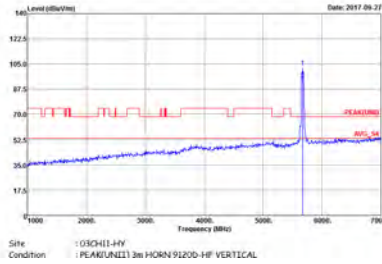
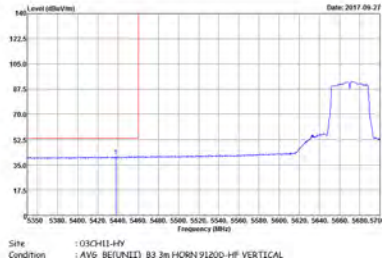
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - R                                                  |             |
| 1    | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

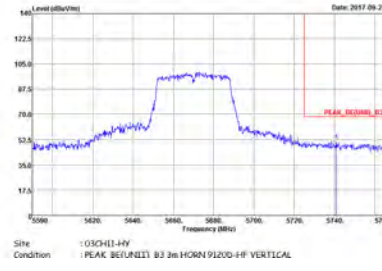
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L                                                                                                                                        |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |



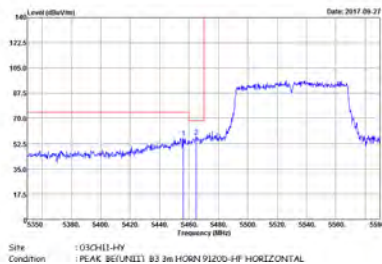
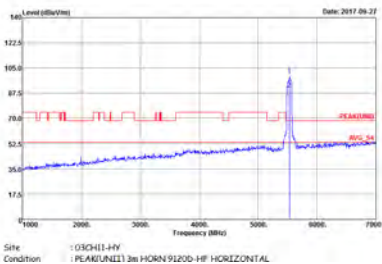
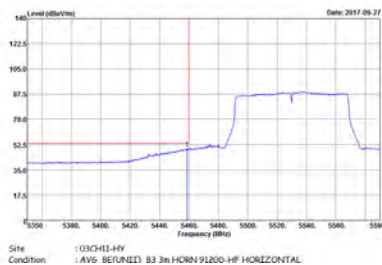
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - R                                                             |             |
| 1    | Horizontal                                                                                   | Fundamental |
| Peak | <div></div> | Left blank  |



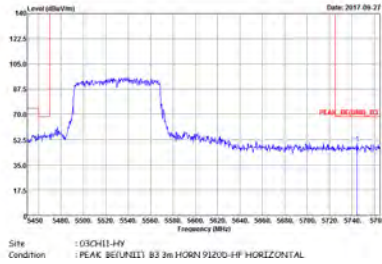
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L                                                                                                                                      |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(FUN1) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(FUN1) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(FUN1) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |

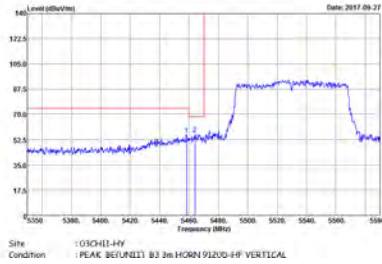
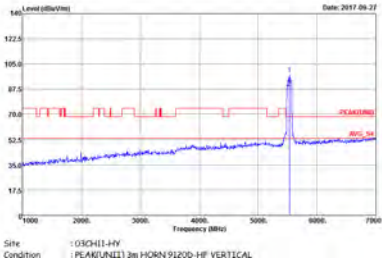
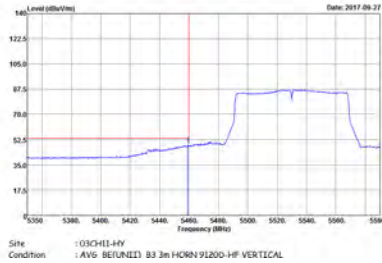
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                       |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - R                                                                                                                                         |             |
| 1    | Vertical                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 10SCH11-4RY<br/>Condition : 1 PEAK (dBm/Hz) B3 3m HORN 91200-4R VERTICAL</p> | Left blank  |

**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

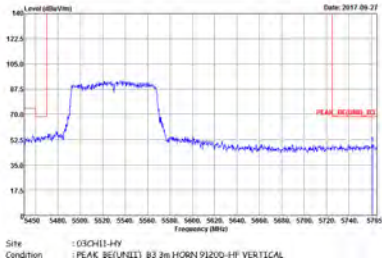
| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                       |                                                                                                                                                                       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                         |                                                                                                                                                                       |
| 1           | Horizontal                                                                                                                                                               | Fundamental                                                                                                                                                           |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BEFUNE11 83 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK BEFUNE11 3m HORN 91200-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BEFUNE11 83 3m HORN 91200-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                                     |

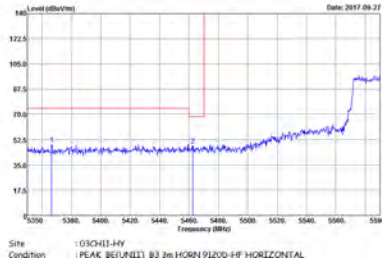
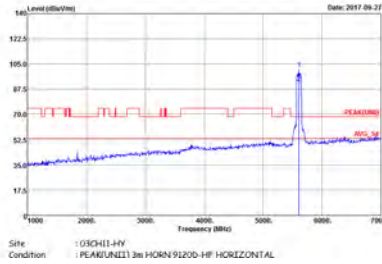
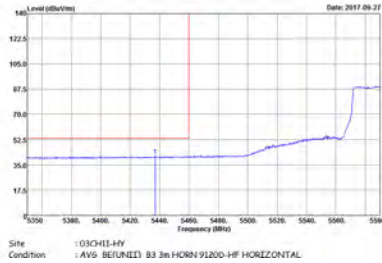


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

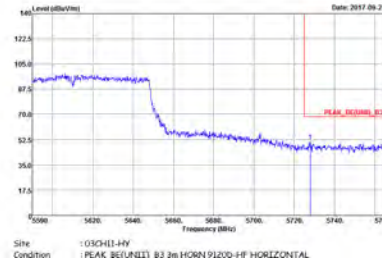
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                      |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UN11) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UN11) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UN11) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |



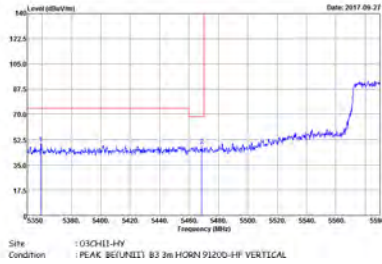
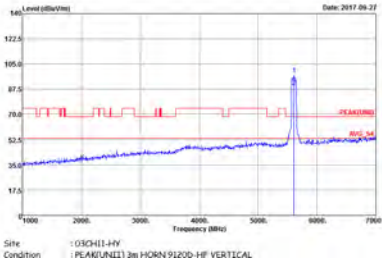
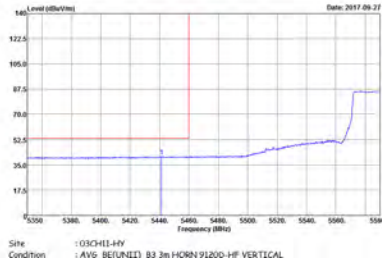
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                             |             |
| 1    | Vertical                                                                                     | Fundamental |
| Peak | <div></div> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                        |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |

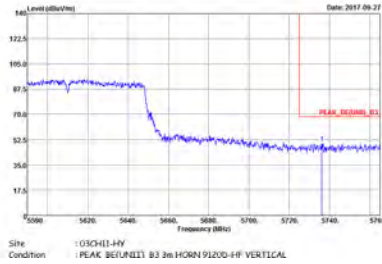


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                  | Fundamental |
| Peak |  <p>Site : 10SCH11-4RY<br/>Condition : 1 PEAK SET(UNIT) B3 3m HORN 91200-4R HORIZONTAL</p> | Left blank  |



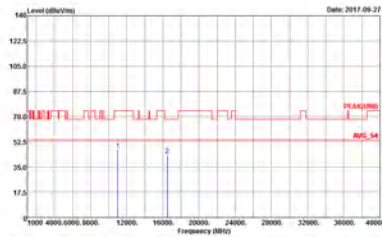
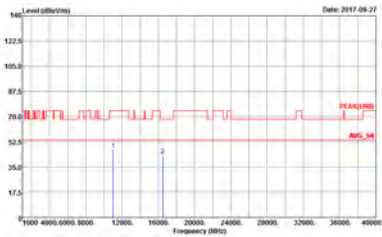
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                      |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |



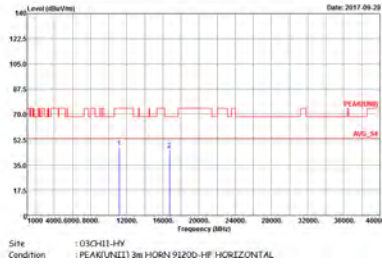
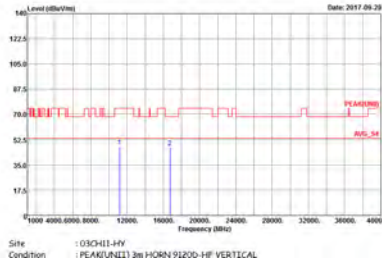
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                  |             |
| 1    | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |



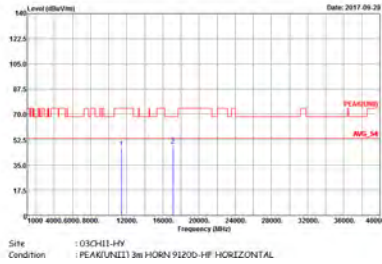
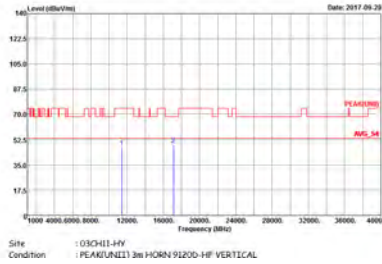
Band 3 - 5470~5725MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                     |                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH100 5500MHz                                                                                                                                                 |                                                                                                                                                                      |
| 1            | Horizontal                                                                                                                                                            | Vertical                                                                                                                                                             |
| Peak<br>Avg. |  <p>Site : (ORCHILL-HP)<br/>Condition : (PEAK/UNITS) 3m HORN 9120D-HP HORIZONTAL</p> |  <p>Site : (ORCHILL-HP)<br/>Condition : (PEAK/UNITS) 3m HORN 9120D-HP VERTICAL</p> |



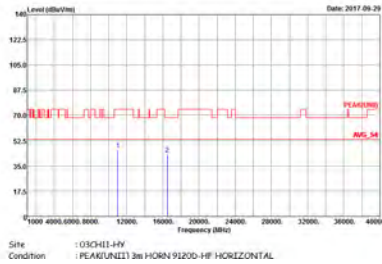
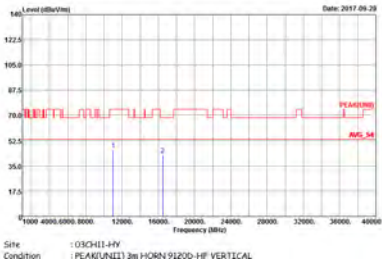
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                 |                                                                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                                                                                                             |                                                                                                                                                                  |
| 1            | Horizontal                                                                                                                                                        | Vertical                                                                                                                                                         |
| Peak<br>Avg. |  <p>Site : 03CH11-4HY<br/>Condition : PEAK(UN11) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-4HY<br/>Condition : PEAK(UN11) 3m HORN 91200-HF VERTICAL</p> |



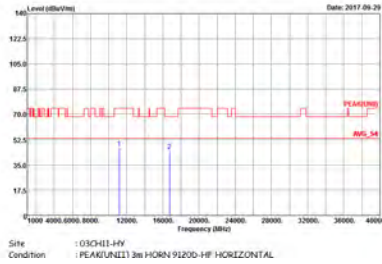
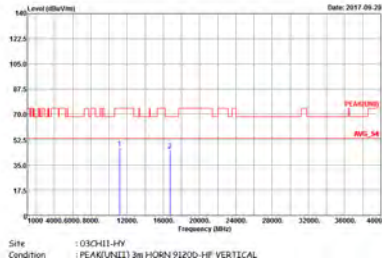
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11a CH140 5700MHz                                                             |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



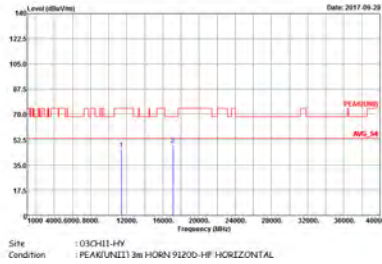
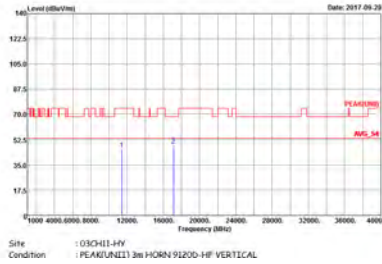
Band 3 5470~5725MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                |                                                                                                                                                                 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH100 5500MHz                                                                                                                                     |                                                                                                                                                                 |
| 1            | Horizontal                                                                                                                                                       | Vertical                                                                                                                                                        |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL</p> |



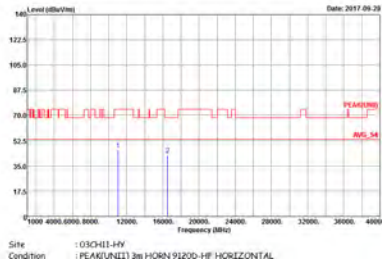
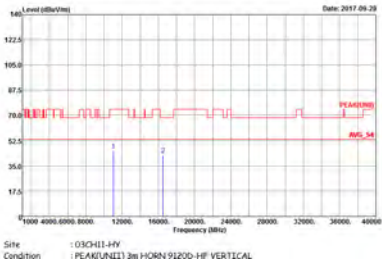
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH116 5580MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



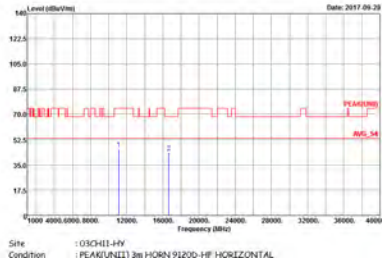
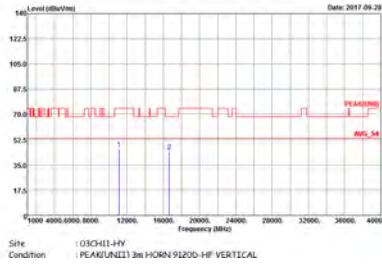
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH140 5700MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



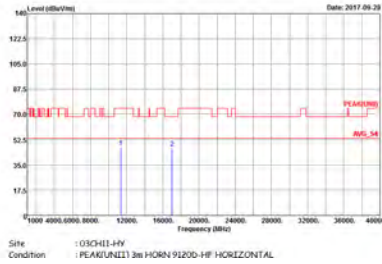
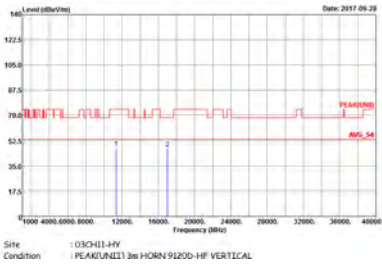
Band 3 5470~5725MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                |                                                                                                                                                                 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH102 5510MHz                                                                                                                                     |                                                                                                                                                                 |
| 1            | Horizontal                                                                                                                                                       | Vertical                                                                                                                                                        |
| Peak<br>Avg. |  <p>Site : 03CH11-HV<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HV<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL</p> |



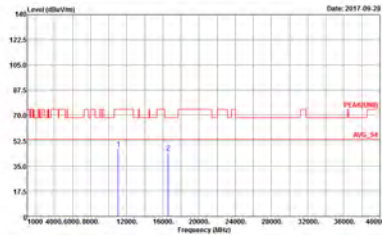
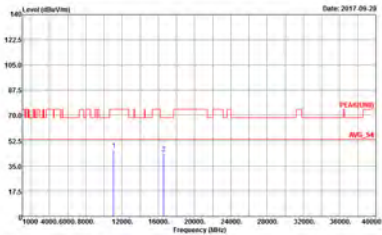
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                 |                                                                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH110 5550MHz                                                                                                                                      |                                                                                                                                                                  |
| 1            | Horizontal                                                                                                                                                        | Vertical                                                                                                                                                         |
| Peak<br>Avg. |  <p>Site : 03CH11-4FV<br/>Condition : PEAK(UN11) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-4FV<br/>Condition : PEAK(UN11) 3m HORN 91200-HF VERTICAL</p> |



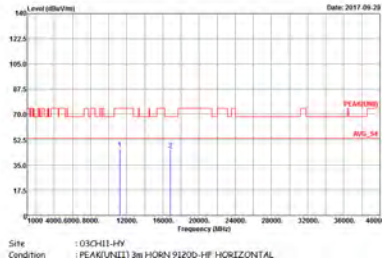
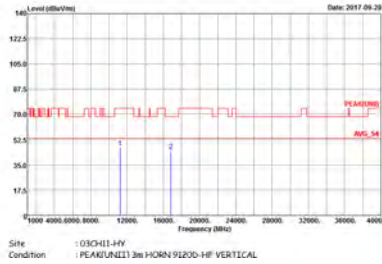
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH134 5670MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



Band 3 5470~5725MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

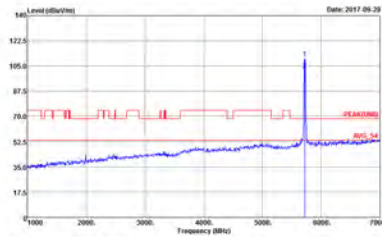
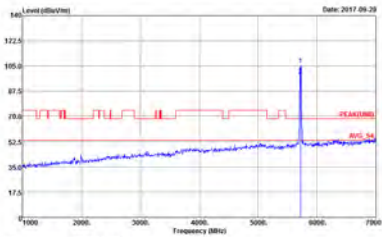
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH106 5530MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF VERTICAL</p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH122 5610MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |

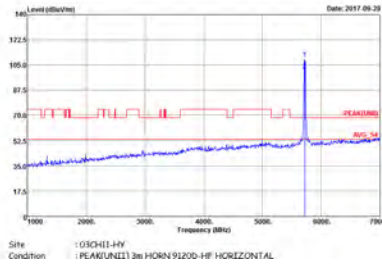
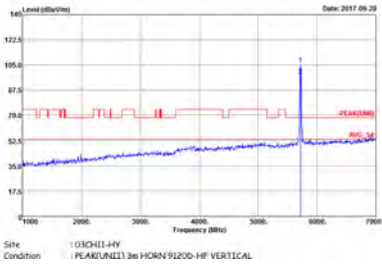


**Band 3 - Straddle Channel**  
**WIFI 802.11a (Fundamental @ 3m)**

| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                           |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site: 10SCH11-14V<br/>Condition: 1 PEAK/UN111 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site: 10SCH11-14V<br/>Condition: 1 PEAK/UN111 3m HORN 9120D-HF VERTICAL</p> |

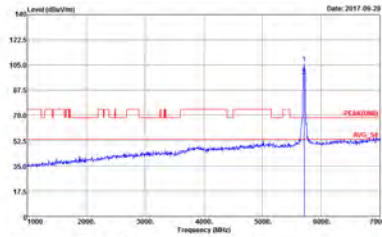
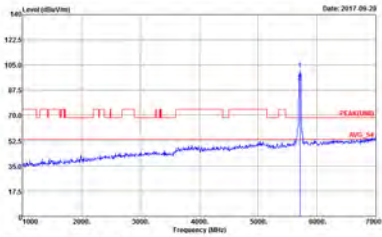


Band 3 – Straddle Channel  
WIFI 802.11ac VHT20 (Fundamental @ 3m)

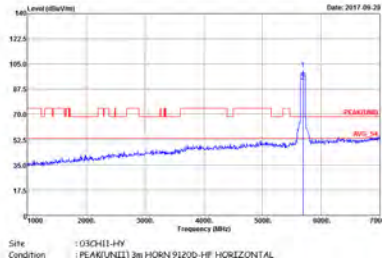
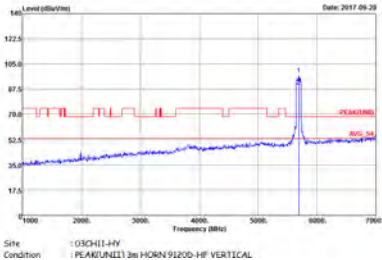
| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                        |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH144 5720MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 9120D-HF VERTICAL</p> |



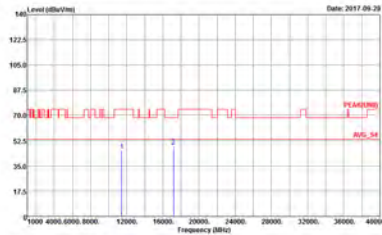
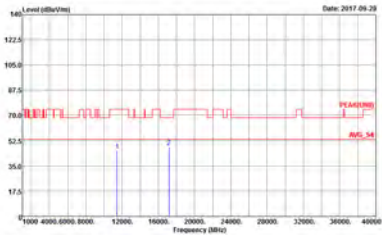
Band 3 – Straddle Channel  
WIFI 802.11ac VHT40 (Fundamental @ 3m)

| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                        |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH142 5710MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAKUN111 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAKUN111 3m HORN 9120D-HF VERTICAL</p> |

**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT80 (Fundamental @ 3m)**

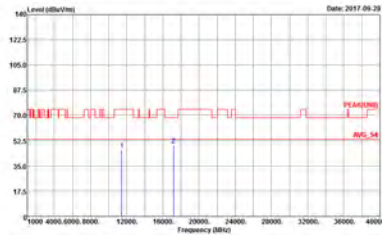
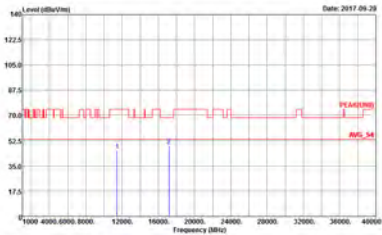
| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                            |                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH138 5690MHz                                                                                                                                        |                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                          | Vertical                                                                                                                                                           |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/> Condition : 1 PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/> Condition : 1 PEAK(UNII) 3m HORN 9120D-HF VERTICAL</p> |

**Band 3 - Straddle Channel**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                              |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CHILL-4V<br/> Condition : PEAK/UNII1 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CHILL-4V<br/> Condition : PEAK/UNII1 3m HORN 91200-HF VERTICAL</p> |

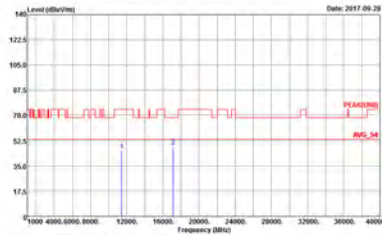
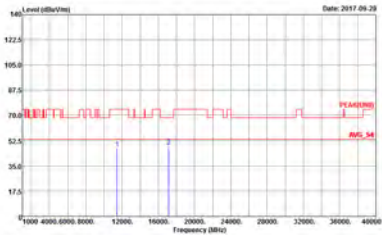


Band 3 – Straddle Channel  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                           |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH144 5720MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HV<br/>Condition : PEAK(AVG) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HV<br/>Condition : PEAK(AVG) 3m HORN 91200-HF VERTICAL</p> |

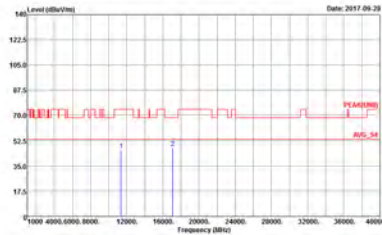
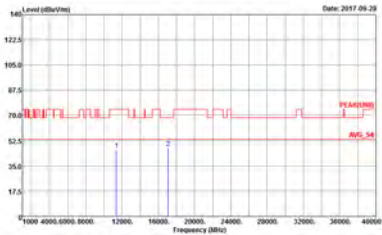


Band 3 – Straddle Channel  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

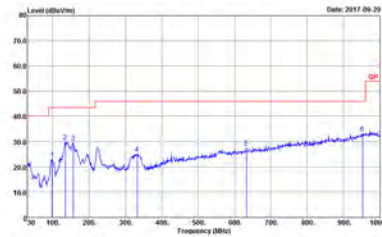
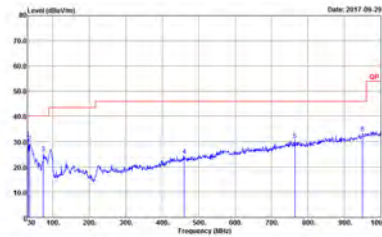
| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                           |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH142 5710MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF VERTICAL</p> |



Band 3 – Straddle Channel  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

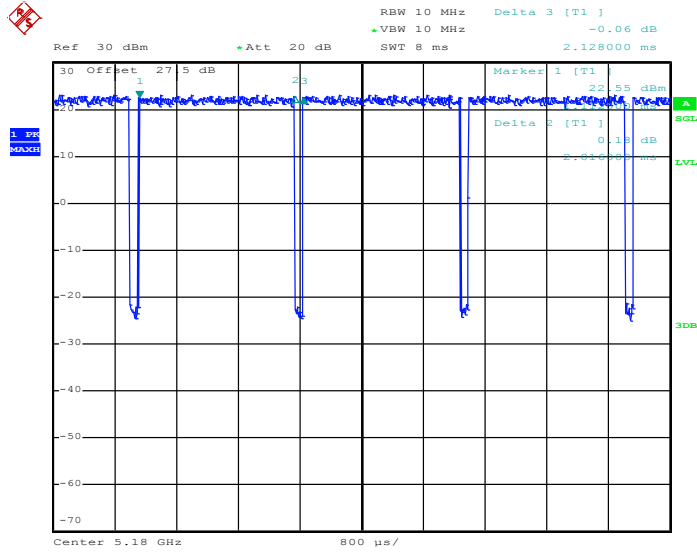
| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                            |                                                                                                                                                                 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH138 5690MHz                                                                                                                                     |                                                                                                                                                                 |
| 1            | Horizontal                                                                                                                                                       | Vertical                                                                                                                                                        |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL</p> |

**Emission below 1GHz**  
**5GHz WIFI 802.11ac VHT40 (LF)**

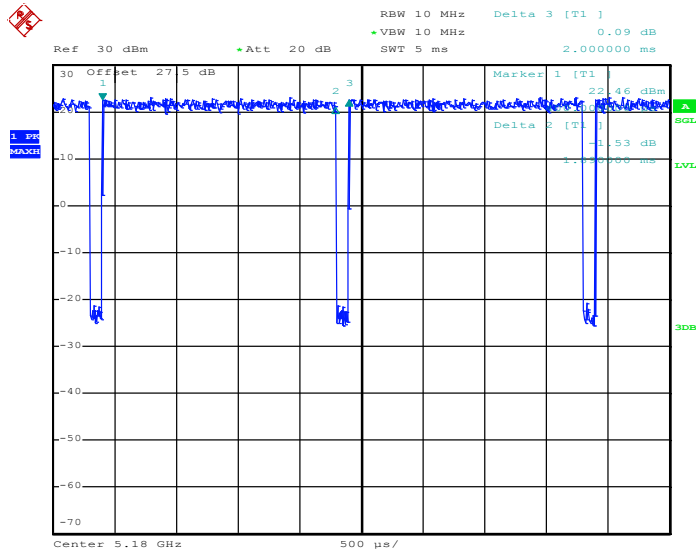
| WIFI                 | 5GHz WIFI                                                                                                                                                        |                                                                                                                                                                 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | 802.11ac VHT40 LF                                                                                                                                                |                                                                                                                                                                 |
| 1                    | Horizontal                                                                                                                                                       | Vertical                                                                                                                                                        |
| <b>QP /<br/>Peak</b> |  <p>Site : 03CH11-44Y<br/> Condition : QP 3m BE LOG 6111D-LF ETC HORIZONTAL</p> |  <p>Site : 03CH11-44Y<br/> Condition : QP 3m BE LOG 6111D-LF ETC VERTICAL</p> |
|                      |                                                                                                                                                                  |                                                                                                                                                                 |

## Appendix E. Duty Cycle Plots

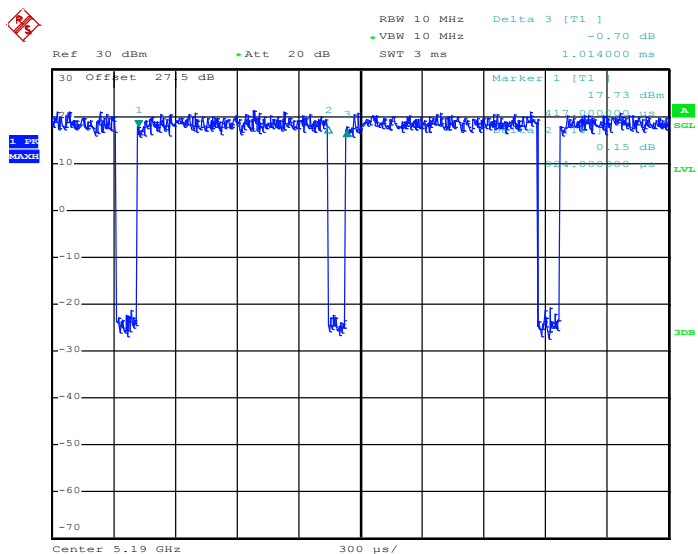
| Band                | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting | Duty Factor(dB) |
|---------------------|---------------|-------|----------|-------------|-----------------|
| 802.11a             | 94.74         | 2016  | 0.50     | 1kHz        | 0.23            |
| 5GHz 802.11n HT20   | 94.50         | 1890  | 0.53     | 1kHz        | 0.25            |
| 5GHz 802.11n HT40   | 91.12         | 924   | 1.08     | 3kHz        | 0.40            |
| 5GHz 802.11ac VHT20 | 95.03         | 1910  | 0.52     | 1kHz        | 0.22            |
| 5GHz 802.11ac VHT40 | 89.31         | 927   | 1.08     | 3kHz        | 0.49            |
| 5GHz 802.11ac VHT80 | 89.87         | 852   | 1.17     | 3kHz        | 0.46            |

**802.11a**


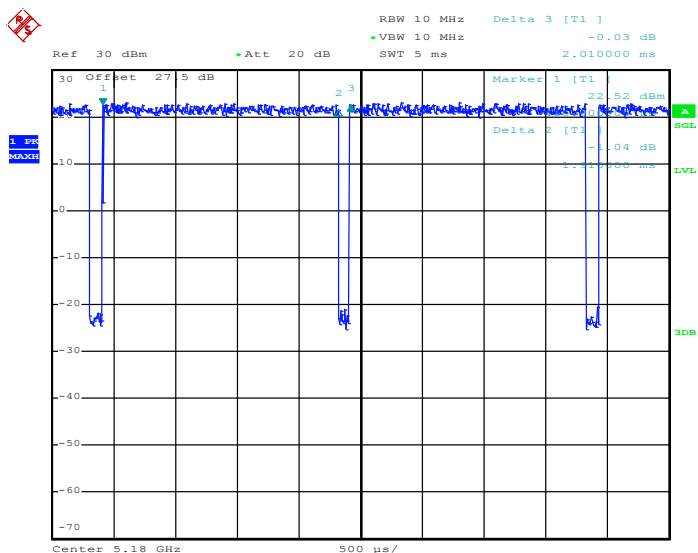
Date: 25.SEP.2017 16:56:42

**802.11n HT20**


Date: 25.SEP.2017 16:57:36

**802.11n HT40**


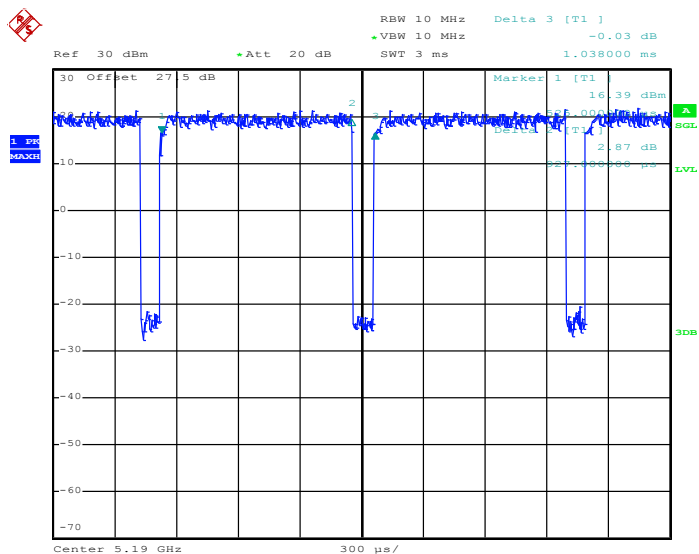
Date: 25.SEP.2017 17:01:59

**802.11ac VHT20**


Date: 25.SEP.2017 17:02:50

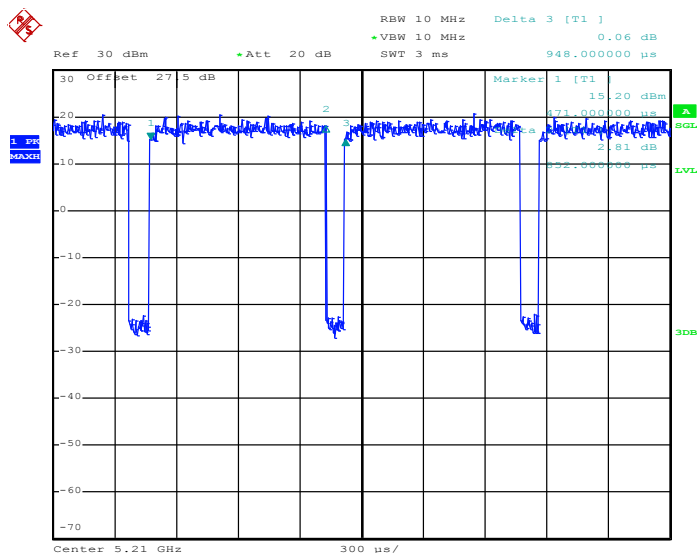


802.11ac VHT40



Date: 25.SEP.2017 17:03:37

802.11ac VHT80

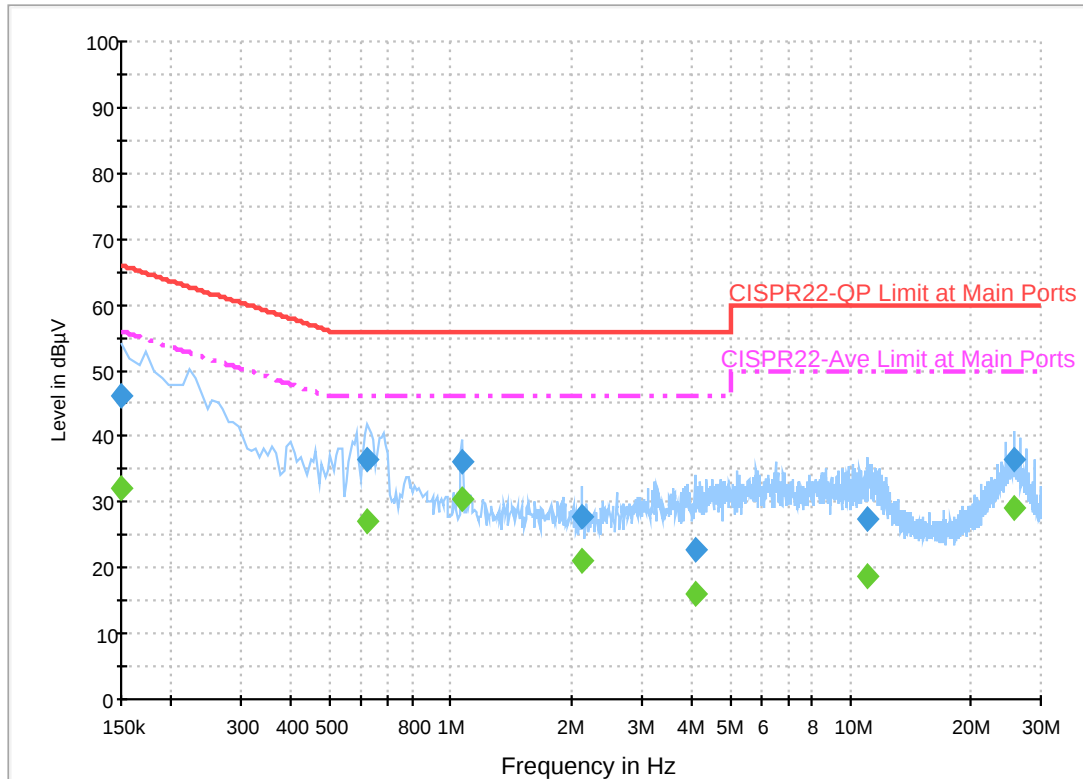


Date: 25.SEP.2017 17:06:32

## EUT Information

Report NO : 762713-01  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

ENV216 Auto Test FCC Power Bar - L



## Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 46.2             | Off    | L1   | 19.6       | 19.8        | 66.0         |
| 0.622000        | 36.6             | Off    | L1   | 19.6       | 19.4        | 56.0         |
| 1.070000        | 36.2             | Off    | L1   | 19.6       | 19.8        | 56.0         |
| 2.134000        | 27.8             | Off    | L1   | 18.2       | 28.2        | 56.0         |
| 4.086000        | 22.6             | Off    | L1   | 19.7       | 33.4        | 56.0         |
| 10.998000       | 27.4             | Off    | L1   | 20.1       | 32.6        | 60.0         |
| 25.598000       | 36.5             | Off    | L1   | 20.8       | 23.5        | 60.0         |

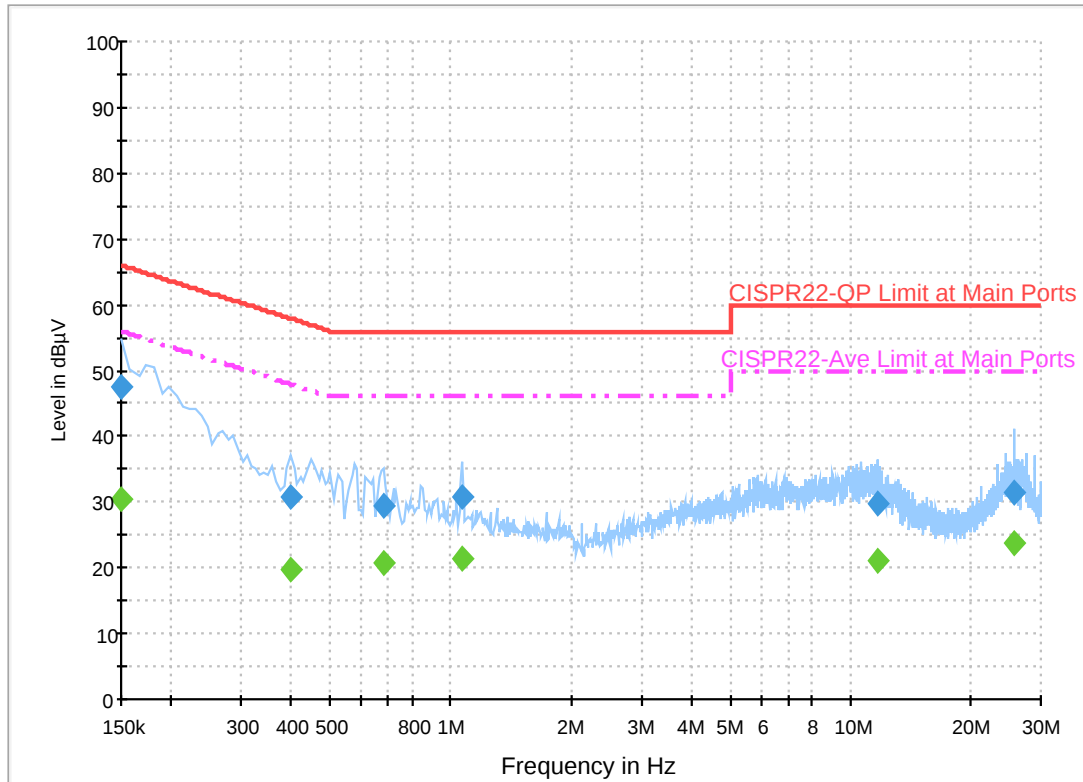
## Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 32.0           | Off    | L1   | 19.6       | 24.0        | 56.0         |
| 0.622000        | 27.2           | Off    | L1   | 19.6       | 18.8        | 46.0         |
| 1.070000        | 30.4           | Off    | L1   | 19.6       | 15.6        | 46.0         |
| 2.134000        | 21.0           | Off    | L1   | 18.2       | 25.0        | 46.0         |
| 4.086000        | 16.1           | Off    | L1   | 19.7       | 29.9        | 46.0         |
| 10.998000       | 18.7           | Off    | L1   | 20.1       | 31.3        | 50.0         |
| 25.598000       | 28.9           | Off    | L1   | 20.8       | 21.1        | 50.0         |

## EUT Information

Report NO : 762713-01  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



## Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 47.4             | Off    | N    | 19.5       | 18.6        | 66.0         |
| 0.398000        | 30.9             | Off    | N    | 19.5       | 27.0        | 57.9         |
| 0.678000        | 29.5             | Off    | N    | 19.5       | 26.5        | 56.0         |
| 1.070000        | 30.7             | Off    | N    | 19.6       | 25.3        | 56.0         |
| 11.694000       | 29.6             | Off    | N    | 20.2       | 30.4        | 60.0         |
| 25.598000       | 31.6             | Off    | N    | 21.0       | 28.4        | 60.0         |

## Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 30.3           | Off    | N    | 19.5       | 25.7        | 56.0         |
| 0.398000        | 19.6           | Off    | N    | 19.5       | 28.3        | 47.9         |
| 0.678000        | 20.8           | Off    | N    | 19.5       | 25.2        | 46.0         |
| 1.070000        | 21.5           | Off    | N    | 19.6       | 24.5        | 46.0         |
| 11.694000       | 21.0           | Off    | N    | 20.2       | 29.0        | 50.0         |
| 25.598000       | 23.9           | Off    | N    | 21.0       | 26.1        | 50.0         |



## Appendix C. Radiated Spurious Emission

|                 |                     |                     |           |
|-----------------|---------------------|---------------------|-----------|
| Test Engineer : | Hao Hsu, and Ken Wu | Temperature :       | 24 ~ 26°C |
|                 |                     | Relative Humidity : | 50 ~ 55%  |

### Band 1 - 5150~5250MHz

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

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5137.54   | 54.35      | -19.65 | 74         | 46.3     | 32.03    | 9.05   | 33.03  | 100    | 125     | P       | H       |
|                             |      | 5149.76   | 44.7       | -9.3   | 54         | 36.63    | 32.05    | 9.05   | 33.03  | 100    | 125     | A       | H       |
|                             | *    | 5180      | 105        | -      | -          | 96.88    | 32.08    | 9.07   | 33.03  | 100    | 125     | P       | H       |
|                             | *    | 5180      | 96.93      | -      | -          | 88.81    | 32.08    | 9.07   | 33.03  | 100    | 125     | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      | 5149.5    | 50.22      | -23.78 | 74         | 42.15    | 32.05    | 9.05   | 33.03  | 377    | 334     | P       | V       |
|                             |      | 5150      | 42.96      | -11.04 | 54         | 34.89    | 32.05    | 9.05   | 33.03  | 377    | 334     | A       | V       |
|                             | *    | 5180      | 104.74     | -      | -          | 96.62    | 32.08    | 9.07   | 33.03  | 377    | 334     | P       | V       |
|                             | *    | 5180      | 96.9       | -      | -          | 88.78    | 32.08    | 9.07   | 33.03  | 377    | 334     | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 44<br>5220MHz |      | 5144.3    | 50.29      | -23.71 | 74         | 42.22    | 32.05    | 9.05   | 33.03  | 100    | 125     | P       | H       |
|                             |      | 5148.2    | 40.89      | -13.11 | 54         | 32.82    | 32.05    | 9.05   | 33.03  | 100    | 125     | A       | H       |
|                             | *    | 5220      | 105.46     | -      | -          | 97.26    | 32.12    | 9.11   | 33.03  | 100    | 125     | P       | H       |
|                             | *    | 5220      | 97.63      | -      | -          | 89.43    | 32.12    | 9.11   | 33.03  | 100    | 125     | A       | H       |
|                             |      | 5459.52   | 49.08      | -24.92 | 74         | 40.46    | 32.35    | 9.29   | 33.02  | 100    | 125     | P       | H       |
|                             |      | 5429.28   | 40.24      | -13.76 | 54         | 31.67    | 32.33    | 9.26   | 33.02  | 100    | 125     | A       | H       |
|                             |      | 5107.9    | 50.15      | -23.85 | 74         | 42.14    | 32.02    | 9.03   | 33.04  | 350    | 335     | P       | V       |
|                             |      | 5102.7    | 40.81      | -13.19 | 54         | 32.84    | 32       | 9.01   | 33.04  | 350    | 335     | A       | V       |
|                             | *    | 5220      | 104.78     | -      | -          | 96.58    | 32.12    | 9.11   | 33.03  | 350    | 335     | P       | V       |
|                             | *    | 5220      | 97.05      | -      | -          | 88.85    | 32.12    | 9.11   | 33.03  | 350    | 335     | A       | V       |
|                             |      | 5405.76   | 48.72      | -25.28 | 74         | 40.22    | 32.3     | 9.22   | 33.02  | 350    | 335     | P       | V       |
|                             |      | 5422.08   | 40.27      | -13.73 | 54         | 31.71    | 32.32    | 9.26   | 33.02  | 350    | 335     | A       | V       |



|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5089.18 | 49.06  | -24.94 | 74 | 41.09 | 32    | 9.01 | 33.04 | 103 | 127 | P | H |
|                                      |                                                                                             | 5024.96 | 40.87  | -13.13 | 54 | 33.03 | 31.93 | 8.95 | 33.04 | 103 | 127 | A | H |
|                                      | *                                                                                           | 5240    | 106.12 | -      | -  | 97.9  | 32.13 | 9.12 | 33.03 | 103 | 127 | P | H |
|                                      | *                                                                                           | 5240    | 98.12  | -      | -  | 89.9  | 32.13 | 9.12 | 33.03 | 103 | 127 | A | H |
|                                      |                                                                                             | 5378.16 | 49.88  | -24.12 | 74 | 41.42 | 32.28 | 9.2  | 33.02 | 103 | 127 | P | H |
|                                      |                                                                                             | 5458.56 | 40.33  | -13.67 | 54 | 31.71 | 32.35 | 9.29 | 33.02 | 103 | 127 | A | H |
|                                      |                                                                                             | 5121.94 | 49.3   | -24.7  | 74 | 41.28 | 32.02 | 9.03 | 33.03 | 370 | 335 | P | V |
|                                      |                                                                                             | 5092.56 | 40.93  | -13.07 | 54 | 32.96 | 32    | 9.01 | 33.04 | 370 | 335 | A | V |
|                                      | *                                                                                           | 5240    | 105.99 | -      | -  | 97.77 | 32.13 | 9.12 | 33.03 | 370 | 335 | P | V |
|                                      | *                                                                                           | 5240    | 97.43  | -      | -  | 89.21 | 32.13 | 9.12 | 33.03 | 370 | 335 | A | V |
|                                      |                                                                                             | 5355.12 | 48.57  | -25.43 | 74 | 40.16 | 32.25 | 9.19 | 33.03 | 370 | 335 | P | V |
|                                      |                                                                                             | 5441.52 | 40.44  | -13.56 | 54 | 31.87 | 32.33 | 9.26 | 33.02 | 370 | 335 | 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>1           | 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                | 45.46               | -28.54                  | 74                          | 56.18                     | 38.41                         | 14.63                   | 64.07                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15540                | 45.62               | -28.38                  | 74                          | 52.07                     | 37.58                         | 17.95                   | 62.37                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10360                | 45.61               | -28.39                  | 74                          | 56.33                     | 38.41                         | 14.63                   | 64.07                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15540                | 45.02               | -28.98                  | 74                          | 51.47                     | 37.58                         | 17.95                   | 62.37                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 45.82               | -28.18                  | 74                          | 56.41                     | 38.51                         | 14.68                   | 64.09                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15660                | 44.17               | -29.83                  | 74                          | 50.53                     | 37.14                         | 18.06                   | 61.91                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10440                | 46.12               | -27.88                  | 74                          | 56.71                     | 38.51                         | 14.68                   | 64.09                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15660                | 44.85               | -29.15                  | 74                          | 51.21                     | 37.14                         | 18.06                   | 61.91                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 46.79               | -27.21                  | 74                          | 57.28                     | 38.58                         | 14.72                   | 64.1                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15720                | 45.09               | -28.91                  | 74                          | 51.42                     | 36.89                         | 18.1                    | 61.65                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10480                | 46.12               | -27.88                  | 74                          | 56.61                     | 38.58                         | 14.72                   | 64.1                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15720                | 44.24               | -29.76                  | 74                          | 50.57                     | 36.89                         | 18.1                    | 61.65                      | 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 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |      | 5147.94              | 52.3                | -21.7                   | 74                          | 44.23                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 125                     | P                       | H               |
|                                       |      | 5150                 | 43.53               | -10.47                  | 54                          | 35.46                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 125                     | A                       | H               |
|                                       | *    | 5180                 | 104.32              | -                       | -                           | 96.2                      | 32.08                         | 9.07                    | 33.03                      | 100                  | 125                     | P                       | H               |
|                                       | *    | 5180                 | 95.59               | -                       | -                           | 87.47                     | 32.08                         | 9.07                    | 33.03                      | 100                  | 125                     | A                       | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 5147.94              | 49.62               | -24.38                  | 74                          | 41.55                     | 32.05                         | 9.05                    | 33.03                      | 377                  | 334                     | P                       | V               |
|                                       |      | 5149.76              | 42                  | -12                     | 54                          | 33.93                     | 32.05                         | 9.05                    | 33.03                      | 377                  | 334                     | A                       | V               |
|                                       | *    | 5180                 | 102.96              | -                       | -                           | 94.84                     | 32.08                         | 9.07                    | 33.03                      | 377                  | 334                     | P                       | V               |
|                                       | *    | 5180                 | 95.28               | -                       | -                           | 87.16                     | 32.08                         | 9.07                    | 33.03                      | 377                  | 334                     | A                       | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |      | 5121.42              | 49.93               | -24.07                  | 74                          | 41.91                     | 32.02                         | 9.03                    | 33.03                      | 147                  | 125                     | P                       | H               |
|                                       |      | 5138.84              | 40.88               | -13.12                  | 54                          | 32.83                     | 32.03                         | 9.05                    | 33.03                      | 147                  | 125                     | A                       | H               |
|                                       | *    | 5220                 | 104.26              | -                       | -                           | 96.06                     | 32.12                         | 9.11                    | 33.03                      | 147                  | 125                     | P                       | H               |
|                                       | *    | 5220                 | 96.28               | -                       | -                           | 88.08                     | 32.12                         | 9.11                    | 33.03                      | 147                  | 125                     | A                       | H               |
|                                       |      | 5402.16              | 49.79               | -24.21                  | 74                          | 41.29                     | 32.3                          | 9.22                    | 33.02                      | 147                  | 125                     | P                       | H               |
|                                       |      | 5448.48              | 40.48               | -13.52                  | 54                          | 31.86                     | 32.35                         | 9.29                    | 33.02                      | 147                  | 125                     | A                       | H               |
|                                       |      | 5094.12              | 49.57               | -24.43                  | 74                          | 41.6                      | 32                            | 9.01                    | 33.04                      | 350                  | 335                     | P                       | V               |
|                                       |      | 5107.9               | 40.87               | -13.13                  | 54                          | 32.86                     | 32.02                         | 9.03                    | 33.04                      | 350                  | 335                     | A                       | V               |
|                                       | *    | 5220                 | 103.75              | -                       | -                           | 95.55                     | 32.12                         | 9.11                    | 33.03                      | 350                  | 335                     | P                       | V               |
|                                       | *    | 5220                 | 95.46               | -                       | -                           | 87.26                     | 32.12                         | 9.11                    | 33.03                      | 350                  | 335                     | A                       | V               |
|                                       |      | 5423.04              | 49.54               | -24.46                  | 74                          | 40.98                     | 32.32                         | 9.26                    | 33.02                      | 350                  | 335                     | P                       | V               |
|                                       |      | 5455.68              | 40.31               | -13.69                  | 54                          | 31.69                     | 32.35                         | 9.29                    | 33.02                      | 350                  | 335                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5040.04 | 49.56  | -24.44 | 74 | 41.68 | 31.95 | 8.97 | 33.04 | 103 | 126 | P | H |
|                                                                   |                                                                                             | 5104.52 | 40.77  | -13.23 | 54 | 32.8  | 32    | 9.01 | 33.04 | 103 | 126 | A | H |
|                                                                   | *                                                                                           | 5240    | 104.67 | -      | -  | 96.45 | 32.13 | 9.12 | 33.03 | 103 | 126 | P | H |
|                                                                   | *                                                                                           | 5240    | 96.76  | -      | -  | 88.54 | 32.13 | 9.12 | 33.03 | 103 | 126 | A | H |
|                                                                   |                                                                                             | 5391.84 | 48.55  | -25.45 | 74 | 40.09 | 32.28 | 9.2  | 33.02 | 103 | 126 | P | H |
|                                                                   |                                                                                             | 5367.12 | 40.21  | -13.79 | 54 | 31.77 | 32.27 | 9.2  | 33.03 | 103 | 126 | A | H |
|                                                                   |                                                                                             | 5115.7  | 49.89  | -24.11 | 74 | 41.88 | 32.02 | 9.03 | 33.04 | 370 | 335 | P | V |
|                                                                   |                                                                                             | 5042.64 | 40.72  | -13.28 | 54 | 32.84 | 31.95 | 8.97 | 33.04 | 370 | 335 | A | V |
|                                                                   | *                                                                                           | 5240    | 103.91 | -      | -  | 95.69 | 32.13 | 9.12 | 33.03 | 370 | 335 | P | V |
|                                                                   | *                                                                                           | 5240    | 96.17  | -      | -  | 87.95 | 32.13 | 9.12 | 33.03 | 370 | 335 | A | V |
|                                                                   |                                                                                             | 5380.08 | 49.22  | -24.78 | 74 | 40.76 | 32.28 | 9.2  | 33.02 | 370 | 335 | P | V |
|                                                                   |                                                                                             | 5454.48 | 40.28  | -13.72 | 54 | 31.66 | 32.35 | 9.29 | 33.02 | 370 | 335 | 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 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |                                                                                             | 10360                | 46.19               | -27.81                  | 74                          | 56.91                     | 38.41                         | 14.63                   | 64.07                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15540                | 44.19               | -29.81                  | 74                          | 50.64                     | 37.58                         | 17.95                   | 62.37                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10360                | 45.66               | -28.34                  | 74                          | 56.38                     | 38.41                         | 14.63                   | 64.07                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15540                | 46.11               | -27.89                  | 74                          | 52.56                     | 37.58                         | 17.95                   | 62.37                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 46.06               | -27.94                  | 74                          | 56.65                     | 38.51                         | 14.68                   | 64.09                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15660                | 44.68               | -29.32                  | 74                          | 51.04                     | 37.14                         | 18.06                   | 61.91                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10440                | 46.32               | -27.68                  | 74                          | 56.91                     | 38.51                         | 14.68                   | 64.09                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15660                | 45.68               | -28.32                  | 74                          | 52.04                     | 37.14                         | 18.06                   | 61.91                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 47.03               | -26.97                  | 74                          | 57.52                     | 38.58                         | 14.72                   | 64.1                       | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15720                | 44.57               | -29.43                  | 74                          | 50.9                      | 36.89                         | 18.1                    | 61.65                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10480                | 46.9                | -27.1                   | 74                          | 57.39                     | 38.58                         | 14.72                   | 64.1                       | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15720                | 45.03               | -28.97                  | 74                          | 51.36                     | 36.89                         | 18.1                    | 61.65                      | 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 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 5150                 | 56.31               | -17.69                  | 74                          | 48.24                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | P                       | H               |
|                                       |                                                                                             | 5149.24              | 50.39               | -3.61                   | 54                          | 42.32                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | A                       | H               |
|                                       | *                                                                                           | 5190                 | 100.94              | -                       | -                           | 92.8                      | 32.08                         | 9.09                    | 33.03                      | 100                  | 116                     | P                       | H               |
|                                       | *                                                                                           | 5190                 | 92.83               | -                       | -                           | 84.69                     | 32.08                         | 9.09                    | 33.03                      | 100                  | 116                     | A                       | H               |
|                                       |                                                                                             | 5419.4               | 49.36               | -24.64                  | 74                          | 40.8                      | 32.32                         | 9.26                    | 33.02                      | 100                  | 116                     | P                       | H               |
|                                       |                                                                                             | 5441.52              | 41.07               | -12.93                  | 54                          | 32.5                      | 32.33                         | 9.26                    | 33.02                      | 100                  | 116                     | A                       | H               |
|                                       |                                                                                             | 5150.02              | 56.75               | -93.25                  | 150                         | 48.68                     | 32.05                         | 9.05                    | 33.03                      | 302                  | 80                      | P                       | V               |
|                                       |                                                                                             | 5149.5               | 48.2                | -5.8                    | 54                          | 40.13                     | 32.05                         | 9.05                    | 33.03                      | 302                  | 80                      | A                       | V               |
|                                       | *                                                                                           | 5190                 | 99.37               | -                       | -                           | 91.23                     | 32.08                         | 9.09                    | 33.03                      | 302                  | 80                      | P                       | V               |
|                                       | *                                                                                           | 5190                 | 91.38               | -                       | -                           | 83.24                     | 32.08                         | 9.09                    | 33.03                      | 302                  | 80                      | A                       | V               |
|                                       |                                                                                             | 5439                 | 48.87               | -25.13                  | 74                          | 40.3                      | 32.33                         | 9.26                    | 33.02                      | 302                  | 80                      | P                       | V               |
|                                       |                                                                                             | 5453.56              | 41.01               | -12.99                  | 54                          | 32.39                     | 32.35                         | 9.29                    | 33.02                      | 302                  | 80                      | A                       | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 5148.2               | 50.56               | -23.44                  | 74                          | 42.49                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 122                     | P                       | H               |
|                                       |                                                                                             | 5140.4               | 41.62               | -12.38                  | 54                          | 33.55                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 122                     | A                       | H               |
|                                       | *                                                                                           | 5230                 | 102.76              | -                       | -                           | 94.55                     | 32.13                         | 9.11                    | 33.03                      | 100                  | 122                     | P                       | H               |
|                                       | *                                                                                           | 5230                 | 93.92               | -                       | -                           | 85.71                     | 32.13                         | 9.11                    | 33.03                      | 100                  | 122                     | A                       | H               |
|                                       |                                                                                             | 5403.16              | 50.1                | -23.9                   | 74                          | 41.6                      | 32.3                          | 9.22                    | 33.02                      | 100                  | 122                     | P                       | H               |
|                                       |                                                                                             | 5429.48              | 41.17               | -12.83                  | 54                          | 32.6                      | 32.33                         | 9.26                    | 33.02                      | 100                  | 122                     | A                       | H               |
|                                       |                                                                                             | 5099.06              | 50.14               | -23.86                  | 74                          | 42.17                     | 32                            | 9.01                    | 33.04                      | 354                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5077.74              | 41.67               | -12.33                  | 54                          | 33.74                     | 31.98                         | 8.99                    | 33.04                      | 354                  | 79                      | A                       | V               |
|                                       | *                                                                                           | 5230                 | 101.75              | -                       | -                           | 93.54                     | 32.13                         | 9.11                    | 33.03                      | 354                  | 79                      | P                       | V               |
|                                       | *                                                                                           | 5230                 | 92.73               | -                       | -                           | 84.52                     | 32.13                         | 9.11                    | 33.03                      | 354                  | 79                      | A                       | V               |
|                                       |                                                                                             | 5386.36              | 49.82               | -24.18                  | 74                          | 41.36                     | 32.28                         | 9.2                     | 33.02                      | 354                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5456.36              | 41.07               | -12.93                  | 54                          | 32.45                     | 32.35                         | 9.29                    | 33.02                      | 354                  | 79                      | 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 802.11ac VHT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                              | 10380                | 45.07               | -28.93                  | 74                          | 55.76                     | 38.44                         | 14.64                   | 64.08                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              | 15570                | 44.93               | -29.07                  | 74                          | 51.36                     | 37.45                         | 17.98                   | 62.24                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 10380                | 45.58               | -28.42                  | 74                          | 56.27                     | 38.44                         | 14.64                   | 64.08                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              | 15570                | 44.22               | -29.78                  | 74                          | 50.65                     | 37.45                         | 17.98                   | 62.24                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                              | 10460                | 45.65               | -28.35                  | 74                          | 56.21                     | 38.53                         | 14.69                   | 64.09                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              | 15690                | 45.38               | -28.62                  | 74                          | 51.73                     | 37.02                         | 18.07                   | 61.78                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 10460                | 46.47               | -27.53                  | 74                          | 57.03                     | 38.53                         | 14.69                   | 64.09                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              | 15690                | 46.22               | -27.78                  | 74                          | 52.57                     | 37.02                         | 18.07                   | 61.78                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                       | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                     | 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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 5145.34              | 57.73               | -16.27                  | 74                          | 49.66                   | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | P                     | H             |
|                                       |                                                                                             | 5147.94              | 50.64               | -3.36                   | 54                          | 42.57                   | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | A                     | H             |
|                                       | *                                                                                           | 5210                 | 97.63               | -                       | -                           | 89.45                   | 32.12                         | 9.09                    | 33.03                      | 100                  | 116                     | P                     | H             |
|                                       | *                                                                                           | 5210                 | 89.1                | -                       | -                           | 80.92                   | 32.12                         | 9.09                    | 33.03                      | 100                  | 116                     | A                     | H             |
|                                       |                                                                                             | 5425.28              | 50.34               | -23.66                  | 74                          | 41.78                   | 32.32                         | 9.26                    | 33.02                      | 100                  | 116                     | P                     | H             |
|                                       |                                                                                             | 5355.28              | 41.03               | -12.97                  | 54                          | 32.62                   | 32.25                         | 9.19                    | 33.03                      | 100                  | 116                     | A                     | H             |
|                                       |                                                                                             | 5148.46              | 56.11               | -17.89                  | 74                          | 48.04                   | 32.05                         | 9.05                    | 33.03                      | 284                  | 82                      | P                     | V             |
|                                       |                                                                                             | 5149.76              | 49.2                | -4.8                    | 54                          | 41.13                   | 32.05                         | 9.05                    | 33.03                      | 284                  | 82                      | A                     | V             |
|                                       | *                                                                                           | 5210                 | 96.08               | -                       | -                           | 87.9                    | 32.12                         | 9.09                    | 33.03                      | 284                  | 82                      | P                     | V             |
|                                       | *                                                                                           | 5210                 | 87.78               | -                       | -                           | 79.6                    | 32.12                         | 9.09                    | 33.03                      | 284                  | 82                      | A                     | V             |
|                                       |                                                                                             | 5395.04              | 49.61               | -24.39                  | 74                          | 41.11                   | 32.3                          | 9.22                    | 33.02                      | 284                  | 82                      | P                     | V             |
|                                       |                                                                                             | 5439                 | 40.96               | -13.04                  | 54                          | 32.39                   | 32.33                         | 9.26                    | 33.02                      | 284                  | 82                      | 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 802.11ac VHT80 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 10420                | 46.72               | -27.28                  | 74                          | 57.34                   | 38.48                         | 14.67                   | 64.08                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15630                | 44.57               | -29.43                  | 74                          | 50.96                   | 37.2                          | 18.03                   | 61.98                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10420                | 46.09               | -27.91                  | 74                          | 56.71                   | 38.48                         | 14.67                   | 64.08                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15630                | 45.24               | -28.76                  | 74                          | 51.63                   | 37.2                          | 18.03                   | 61.98                      | 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 2 - 5250~5350MHz

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

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 52<br>5260MHz |      | 5114.24   | 49.05      | -24.95 | 74         | 41.04    | 32.02    | 9.03   | 33.04  | 100    | 124     | P     | H     |
|                             |      | 5097.24   | 40.93      | -13.07 | 54         | 32.96    | 32       | 9.01   | 33.04  | 100    | 124     | A     | H     |
|                             | *    | 5260      | 106.45     | -      | -          | 98.19    | 32.17    | 9.12   | 33.03  | 100    | 124     | P     | H     |
|                             | *    | 5260      | 98.36      | -      | -          | 90.1     | 32.17    | 9.12   | 33.03  | 100    | 124     | A     | H     |
|                             |      | 5395.2    | 49.08      | -24.92 | 74         | 40.58    | 32.3     | 9.22   | 33.02  | 100    | 124     | P     | H     |
|                             |      | 5350.08   | 40.63      | -13.37 | 54         | 32.22    | 32.25    | 9.19   | 33.03  | 100    | 124     | A     | H     |
|                             |      | 5028.9    | 49.44      | -24.56 | 74         | 41.6     | 31.93    | 8.95   | 33.04  | 344    | 337     | P     | V     |
|                             |      | 5070.38   | 41.03      | -12.97 | 54         | 33.11    | 31.97    | 8.99   | 33.04  | 344    | 337     | A     | V     |
|                             | *    | 5260      | 105.06     | -      | -          | 96.8     | 32.17    | 9.12   | 33.03  | 344    | 337     | P     | V     |
|                             | *    | 5260      | 97.34      | -      | -          | 89.08    | 32.17    | 9.12   | 33.03  | 344    | 337     | A     | V     |
|                             |      | 5450.64   | 50.1       | -23.9  | 74         | 41.48    | 32.35    | 9.29   | 33.02  | 344    | 337     | P     | V     |
|                             |      | 5419.44   | 40.35      | -13.65 | 54         | 31.79    | 32.32    | 9.26   | 33.02  | 344    | 337     | A     | V     |
| 802.11a<br>CH 60<br>5300MHz |      | 5009.86   | 48.81      | -25.19 | 74         | 40.98    | 31.92    | 8.95   | 33.04  | 102    | 122     | P     | H     |
|                             |      | 5063.92   | 40.77      | -13.23 | 54         | 32.85    | 31.97    | 8.99   | 33.04  | 102    | 122     | A     | H     |
|                             | *    | 5300      | 106.53     | -      | -          | 98.2     | 32.2     | 9.16   | 33.03  | 102    | 122     | P     | H     |
|                             | *    | 5300      | 98.42      | -      | -          | 90.09    | 32.2     | 9.16   | 33.03  | 102    | 122     | A     | H     |
|                             |      | 5364.24   | 49.39      | -24.61 | 74         | 40.96    | 32.27    | 9.19   | 33.03  | 102    | 122     | P     | H     |
|                             |      | 5350.56   | 41.76      | -12.24 | 54         | 33.35    | 32.25    | 9.19   | 33.03  | 102    | 122     | A     | H     |
|                             |      | 5073.1    | 49.54      | -24.46 | 74         | 41.61    | 31.98    | 8.99   | 33.04  | 338    | 336     | P     | V     |
|                             |      | 5140.08   | 40.79      | -13.21 | 54         | 32.72    | 32.05    | 9.05   | 33.03  | 338    | 336     | A     | V     |
|                             | *    | 5300      | 105.13     | -      | -          | 96.8     | 32.2     | 9.16   | 33.03  | 338    | 336     | P     | V     |
|                             | *    | 5300      | 97.56      | -      | -          | 89.23    | 32.2     | 9.16   | 33.03  | 338    | 336     | A     | V     |
|                             |      | 5425.44   | 48.86      | -25.14 | 74         | 40.3     | 32.32    | 9.26   | 33.02  | 338    | 336     | P     | V     |
|                             |      | 5352.24   | 41.33      | -12.67 | 54         | 32.92    | 32.25    | 9.19   | 33.03  | 338    | 336     | A     | V     |



|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 107.61 | -      | -  | 99.25 | 32.22 | 9.17 | 33.03 | 100 | 121 | P | H |
|                                                  | *                                                                                           | 5320    | 98.87  | -      | -  | 90.51 | 32.22 | 9.17 | 33.03 | 100 | 121 | A | H |
|                                                  |                                                                                             | 5353.28 | 51.28  | -22.72 | 74 | 42.87 | 32.25 | 9.19 | 33.03 | 100 | 121 | P | H |
|                                                  |                                                                                             | 5350.72 | 42.81  | -11.19 | 54 | 34.4  | 32.25 | 9.19 | 33.03 | 100 | 121 | A | H |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                  | *                                                                                           | 5320    | 106.48 | -      | -  | 98.12 | 32.22 | 9.17 | 33.03 | 319 | 337 | P | V |
|                                                  | *                                                                                           | 5320    | 98.01  | -      | -  | 89.65 | 32.22 | 9.17 | 33.03 | 319 | 337 | A | V |
|                                                  |                                                                                             | 5369.76 | 50.44  | -23.56 | 74 | 42    | 32.27 | 9.2  | 33.03 | 319 | 337 | P | V |
|                                                  |                                                                                             | 5353.12 | 42.07  | -11.93 | 54 | 33.66 | 32.25 | 9.19 | 33.03 | 319 | 337 | 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>1           | 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                | 45.89               | -28.11                  | 74                          | 56.32                     | 38.62                         | 14.74                   | 64.1                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 44.72               | -29.28                  | 74                          | 51                        | 36.71                         | 18.15                   | 61.45                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 45.6                | -28.4                   | 74                          | 56.03                     | 38.62                         | 14.74                   | 64.1                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 44.86               | -29.14                  | 74                          | 51.14                     | 36.71                         | 18.15                   | 61.45                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 45.61               | -28.39                  | 74                          | 55.86                     | 38.72                         | 14.8                    | 64.08                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15900                | 44.62               | -29.38                  | 74                          | 50.81                     | 36.27                         | 18.25                   | 60.99                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10600                | 45.54               | -28.46                  | 74                          | 55.79                     | 38.72                         | 14.8                    | 64.08                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15900                | 44.66               | -29.34                  | 74                          | 50.85                     | 36.27                         | 18.25                   | 60.99                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 46                  | -28                     | 74                          | 56.18                     | 38.77                         | 14.82                   | 64.07                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 44.23               | -29.77                  | 74                          | 50.38                     | 36.02                         | 18.3                    | 60.73                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 46.49               | -27.51                  | 74                          | 56.67                     | 38.77                         | 14.82                   | 64.07                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15960                | 44.95               | -29.05                  | 74                          | 51.1                      | 36.02                         | 18.3                    | 60.73                      | 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 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |      | 5004.42              | 50.08               | -23.92                  | 74                          | 42.25                     | 31.92                         | 8.95                    | 33.04                      | 339                  | 124                     | P                       | H               |
|                                       |      | 5072.08              | 40.73               | -13.27                  | 54                          | 32.8                      | 31.98                         | 8.99                    | 33.04                      | 339                  | 124                     | A                       | H               |
|                                       | *    | 5260                 | 105.12              | -                       | -                           | 96.86                     | 32.17                         | 9.12                    | 33.03                      | 339                  | 124                     | P                       | H               |
|                                       | *    | 5260                 | 97.34               | -                       | -                           | 89.08                     | 32.17                         | 9.12                    | 33.03                      | 339                  | 124                     | A                       | H               |
|                                       |      | 5392.32              | 50.12               | -23.88                  | 74                          | 41.66                     | 32.28                         | 9.2                     | 33.02                      | 339                  | 124                     | P                       | H               |
|                                       |      | 5351.28              | 40.62               | -13.38                  | 54                          | 32.21                     | 32.25                         | 9.19                    | 33.03                      | 339                  | 124                     | A                       | H               |
|                                       |      | 5133.62              | 50.14               | -23.86                  | 74                          | 42.09                     | 32.03                         | 9.05                    | 33.03                      | 344                  | 337                     | P                       | V               |
|                                       |      | 5072.08              | 40.77               | -13.23                  | 54                          | 32.84                     | 31.98                         | 8.99                    | 33.04                      | 344                  | 337                     | A                       | V               |
|                                       | *    | 5260                 | 104.06              | -                       | -                           | 95.8                      | 32.17                         | 9.12                    | 33.03                      | 344                  | 337                     | P                       | V               |
|                                       | *    | 5260                 | 96.03               | -                       | -                           | 87.77                     | 32.17                         | 9.12                    | 33.03                      | 344                  | 337                     | A                       | V               |
|                                       |      | 5417.04              | 49.03               | -24.97                  | 74                          | 40.51                     | 32.32                         | 9.22                    | 33.02                      | 344                  | 337                     | P                       | V               |
|                                       |      | 5454.72              | 40.55               | -13.45                  | 54                          | 31.93                     | 32.35                         | 9.29                    | 33.02                      | 344                  | 337                     | A                       | V               |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |      | 5083.98              | 49.27               | -24.73                  | 74                          | 41.32                     | 31.98                         | 9.01                    | 33.04                      | 103                  | 123                     | P                       | H               |
|                                       |      | 5087.04              | 40.73               | -13.27                  | 54                          | 32.78                     | 31.98                         | 9.01                    | 33.04                      | 103                  | 123                     | A                       | H               |
|                                       | *    | 5300                 | 104.71              | -                       | -                           | 96.38                     | 32.2                          | 9.16                    | 33.03                      | 103                  | 123                     | P                       | H               |
|                                       | *    | 5300                 | 98.54               | -                       | -                           | 90.21                     | 32.2                          | 9.16                    | 33.03                      | 103                  | 123                     | A                       | H               |
|                                       |      | 5356.32              | 50.32               | -23.68                  | 74                          | 41.91                     | 32.25                         | 9.19                    | 33.03                      | 103                  | 123                     | P                       | H               |
|                                       |      | 5350.32              | 41.67               | -12.33                  | 54                          | 33.26                     | 32.25                         | 9.19                    | 33.03                      | 103                  | 123                     | A                       | H               |
|                                       |      | 5091.12              | 49.24               | -24.76                  | 74                          | 41.27                     | 32                            | 9.01                    | 33.04                      | 338                  | 336                     | P                       | V               |
|                                       |      | 5054.4               | 40.71               | -13.29                  | 54                          | 32.83                     | 31.95                         | 8.97                    | 33.04                      | 338                  | 336                     | A                       | V               |
|                                       | *    | 5300                 | 104.8               | -                       | -                           | 96.47                     | 32.2                          | 9.16                    | 33.03                      | 338                  | 336                     | P                       | V               |
|                                       | *    | 5300                 | 97.1                | -                       | -                           | 88.77                     | 32.2                          | 9.16                    | 33.03                      | 338                  | 336                     | A                       | V               |
|                                       |      | 5357.52              | 49.33               | -24.67                  | 74                          | 40.92                     | 32.25                         | 9.19                    | 33.03                      | 338                  | 336                     | P                       | V               |
|                                       |      | 5353.2               | 41.08               | -12.92                  | 54                          | 32.67                     | 32.25                         | 9.19                    | 33.03                      | 338                  | 336                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 103.59 | -      | -  | 95.23 | 32.22 | 9.17 | 33.03 | 100 | 125 | P | H |
|                                                                   | *                                                                                           | 5320    | 94.83  | -      | -  | 86.47 | 32.22 | 9.17 | 33.03 | 100 | 125 | A | H |
|                                                                   |                                                                                             | 5351.68 | 51.23  | -22.77 | 74 | 42.82 | 32.25 | 9.19 | 33.03 | 100 | 125 | P | H |
|                                                                   |                                                                                             | 5351.52 | 41.56  | -12.44 | 54 | 33.15 | 32.25 | 9.19 | 33.03 | 100 | 125 | A | H |
|                                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                                   | *                                                                                           | 5320    | 103.01 | -      | -  | 94.65 | 32.22 | 9.17 | 33.03 | 400 | 357 | P | V |
|                                                                   | *                                                                                           | 5320    | 94.52  | -      | -  | 86.16 | 32.22 | 9.17 | 33.03 | 400 | 357 | A | V |
|                                                                   |                                                                                             | 5431    | 50.07  | -23.93 | 74 | 41.5  | 32.33 | 9.26 | 33.02 | 400 | 357 | P | V |
|                                                                   |                                                                                             | 5350.72 | 41.17  | -12.83 | 54 | 32.76 | 32.25 | 9.19 | 33.03 | 400 | 357 | 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 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 46.45               | -27.55                  | 74                          | 56.88                     | 38.62                         | 14.74                   | 64.1                       | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15780                | 44.19               | -29.81                  | 74                          | 50.47                     | 36.71                         | 18.15                   | 61.45                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10520                | 46.33               | -27.67                  | 74                          | 56.76                     | 38.62                         | 14.74                   | 64.1                       | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15780                | 44.7                | -29.3                   | 74                          | 50.98                     | 36.71                         | 18.15                   | 61.45                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 46.62               | -27.38                  | 74                          | 56.87                     | 38.72                         | 14.8                    | 64.08                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15900                | 44.17               | -29.83                  | 74                          | 50.36                     | 36.27                         | 18.25                   | 60.99                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10600                | 45.9                | -28.1                   | 74                          | 56.15                     | 38.72                         | 14.8                    | 64.08                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15900                | 44.34               | -29.66                  | 74                          | 50.53                     | 36.27                         | 18.25                   | 60.99                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 44.71               | -29.29                  | 74                          | 54.89                     | 38.77                         | 14.82                   | 64.07                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15960                | 43.14               | -30.86                  | 74                          | 49.29                     | 36.02                         | 18.3                    | 60.73                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10640                | 44.03               | -29.97                  | 74                          | 54.21                     | 38.77                         | 14.82                   | 64.07                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15960                | 43.59               | -30.41                  | 74                          | 49.74                     | 36.02                         | 18.3                    | 60.73                      | 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 2 5250~5350MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 5148.92              | 49.65               | -24.35                  | 74                          | 41.58                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       |                                                                                             | 5120.02              | 41.54               | -12.46                  | 54                          | 33.52                     | 32.02                         | 9.03                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       | *                                                                                           | 5270                 | 102.98              | -                       | -                           | 94.7                      | 32.17                         | 9.14                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       | *                                                                                           | 5270                 | 93.84               | -                       | -                           | 85.56                     | 32.17                         | 9.14                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       |                                                                                             | 5426.64              | 49.48               | -24.52                  | 74                          | 40.92                     | 32.32                         | 9.26                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                       |                                                                                             | 5350.56              | 41.52               | -12.48                  | 54                          | 33.11                     | 32.25                         | 9.19                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       |                                                                                             | 5116.96              | 49.54               | -24.46                  | 74                          | 41.53                     | 32.02                         | 9.03                    | 33.04                      | 368                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5040.12              | 41.37               | -12.63                  | 54                          | 33.49                     | 31.95                         | 8.97                    | 33.04                      | 368                  | 79                      | A                       | V               |
|                                       | *                                                                                           | 5270                 | 102.13              | -                       | -                           | 93.85                     | 32.17                         | 9.14                    | 33.03                      | 368                  | 79                      | P                       | V               |
|                                       | *                                                                                           | 5270                 | 93.06               | -                       | -                           | 84.78                     | 32.17                         | 9.14                    | 33.03                      | 368                  | 79                      | A                       | V               |
|                                       |                                                                                             | 5414.88              | 48.4                | -25.6                   | 74                          | 39.88                     | 32.32                         | 9.22                    | 33.02                      | 368                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5355.6               | 41.04               | -12.96                  | 54                          | 32.63                     | 32.25                         | 9.19                    | 33.03                      | 368                  | 79                      | A                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 5138.72              | 50.08               | -23.92                  | 74                          | 42.03                     | 32.03                         | 9.05                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       |                                                                                             | 5091.8               | 41.61               | -12.39                  | 54                          | 33.64                     | 32                            | 9.01                    | 33.04                      | 100                  | 121                     | A                       | H               |
|                                       | *                                                                                           | 5310                 | 103.13              | -                       | -                           | 94.78                     | 32.22                         | 9.16                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       | *                                                                                           | 5310                 | 94.29               | -                       | -                           | 85.94                     | 32.22                         | 9.16                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       |                                                                                             | 5351.76              | 55.9                | -18.1                   | 74                          | 47.49                     | 32.25                         | 9.19                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                       |                                                                                             | 5350.8               | 50.71               | -3.29                   | 54                          | 42.3                      | 32.25                         | 9.19                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                       |                                                                                             | 5139.4               | 50.04               | -23.96                  | 74                          | 41.99                     | 32.03                         | 9.05                    | 33.03                      | 362                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5040.46              | 41.67               | -12.33                  | 54                          | 33.79                     | 31.95                         | 8.97                    | 33.04                      | 362                  | 79                      | A                       | V               |
|                                       | *                                                                                           | 5310                 | 102.92              | -                       | -                           | 94.57                     | 32.22                         | 9.16                    | 33.03                      | 362                  | 79                      | P                       | V               |
|                                       | *                                                                                           | 5310                 | 93.95               | -                       | -                           | 85.6                      | 32.22                         | 9.16                    | 33.03                      | 362                  | 79                      | A                       | V               |
|                                       |                                                                                             | 5352                 | 56.48               | -17.52                  | 74                          | 48.07                     | 32.25                         | 9.19                    | 33.03                      | 362                  | 79                      | P                       | V               |
|                                       |                                                                                             | 5350.56              | 49.71               | -4.29                   | 54                          | 41.3                      | 32.25                         | 9.19                    | 33.03                      | 362                  | 79                      | A                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 10540                | 45.77               | -28.23                  | 74                          | 56.15                     | 38.64                         | 14.76                   | 64.09                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15810                | 44.8                | -29.2                   | 74                          | 51.05                     | 36.58                         | 18.18                   | 61.32                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10540                | 45.77               | -28.23                  | 74                          | 56.15                     | 38.64                         | 14.76                   | 64.09                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15810                | 44.64               | -29.36                  | 74                          | 50.89                     | 36.58                         | 18.18                   | 61.32                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 10620                | 45.2                | -28.8                   | 74                          | 55.43                     | 38.74                         | 14.81                   | 64.08                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15930                | 43.1                | -30.9                   | 74                          | 49.26                     | 36.15                         | 18.28                   | 60.86                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10620                | 45.48               | -28.52                  | 74                          | 55.71                     | 38.74                         | 14.81                   | 64.08                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15930                | 43.54               | -30.46                  | 74                          | 49.7                      | 36.15                         | 18.28                   | 60.86                      | 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 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                     | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 5144.5               | 48.95               | -25.05                  | 74                          | 40.88                     | 32.05                         | 9.05                    | 33.03                      | 100                  | 116                     | P                       | H               |
|                                       |                                                                                             | 5085                 | 41.51               | -12.49                  | 54                          | 33.56                     | 31.98                         | 9.01                    | 33.04                      | 100                  | 116                     | A                       | H               |
|                                       | *                                                                                           | 5290                 | 98.27               | -                       | -                           | 89.96                     | 32.18                         | 9.16                    | 33.03                      | 100                  | 116                     | P                       | H               |
|                                       | *                                                                                           | 5290                 | 90.01               | -                       | -                           | 81.7                      | 32.18                         | 9.16                    | 33.03                      | 100                  | 116                     | A                       | H               |
|                                       |                                                                                             | 5360.16              | 58.4                | -15.6                   | 74                          | 49.99                     | 32.25                         | 9.19                    | 33.03                      | 100                  | 116                     | P                       | H               |
|                                       |                                                                                             | 5351.52              | 50.27               | -3.73                   | 54                          | 41.86                     | 32.25                         | 9.19                    | 33.03                      | 100                  | 116                     | A                       | H               |
|                                       |                                                                                             | 5055.76              | 49.98               | -24.02                  | 74                          | 42.06                     | 31.97                         | 8.99                    | 33.04                      | 300                  | 82                      | P                       | V               |
|                                       |                                                                                             | 5101.32              | 41.51               | -12.49                  | 54                          | 33.54                     | 32                            | 9.01                    | 33.04                      | 300                  | 82                      | A                       | V               |
|                                       | *                                                                                           | 5290                 | 96.83               | -                       | -                           | 88.52                     | 32.18                         | 9.16                    | 33.03                      | 300                  | 82                      | P                       | V               |
|                                       | *                                                                                           | 5290                 | 88.11               | -                       | -                           | 79.8                      | 32.18                         | 9.16                    | 33.03                      | 300                  | 82                      | A                       | V               |
|                                       |                                                                                             | 5357.76              | 56.37               | -17.63                  | 74                          | 47.96                     | 32.25                         | 9.19                    | 33.03                      | 300                  | 82                      | P                       | V               |
|                                       |                                                                                             | 5351.04              | 48.59               | -5.41                   | 54                          | 40.18                     | 32.25                         | 9.19                    | 33.03                      | 300                  | 82                      | A                       | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

**Band 2 5250~5350MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                     | 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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 10580                | 44.71               | -29.29                  | 74                          | 55                      | 38.7                          | 14.78                   | 64.08                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15870                | 44.17               | -29.83                  | 74                          | 50.39                   | 36.33                         | 18.22                   | 61.06                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10580                | 45.05               | -28.95                  | 74                          | 55.34                   | 38.7                          | 14.78                   | 64.08                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15870                | 44.81               | -29.19                  | 74                          | 51.03                   | 36.33                         | 18.22                   | 61.06                      | 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 3 - 5470~5725MHz

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

| WIFI                         | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                         |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5455.6    | 50.6       | -23.4  | 74         | 41.98    | 32.35    | 9.29   | 33.02  | 100    | 118     | P       | H       |
|                              |      | 5462.64   | 51.08      | -17.12 | 68.2       | 42.44    | 32.37    | 9.29   | 33.02  | 100    | 118     | P       | H       |
|                              |      | 5457.52   | 42.6       | -11.4  | 54         | 33.98    | 32.35    | 9.29   | 33.02  | 100    | 118     | A       | H       |
|                              | *    | 5500      | 107.09     | -      | -          | 98.34    | 32.4     | 9.37   | 33.02  | 100    | 118     | P       | H       |
|                              | *    | 5500      | 99.2       | -      | -          | 90.45    | 32.4     | 9.37   | 33.02  | 100    | 118     | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5456.88   | 50.82      | -23.18 | 74         | 42.2     | 32.35    | 9.29   | 33.02  | 300    | 340     | P       | V       |
|                              |      | 5461.52   | 50.11      | -18.09 | 68.2       | 41.49    | 32.35    | 9.29   | 33.02  | 300    | 340     | P       | V       |
|                              |      | 5459.92   | 41.49      | -12.51 | 54         | 32.87    | 32.35    | 9.29   | 33.02  | 300    | 340     | A       | V       |
|                              | *    | 5500      | 104.96     | -      | -          | 96.21    | 32.4     | 9.37   | 33.02  | 300    | 340     | P       | V       |
|                              | *    | 5500      | 97.1       | -      | -          | 88.35    | 32.4     | 9.37   | 33.02  | 300    | 340     | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5452.24   | 49.92      | -24.08 | 74         | 41.3     | 32.35    | 9.29   | 33.02  | 101    | 120     | P       | H       |
|                              |      | 5463.28   | 48.69      | -19.51 | 68.2       | 40.05    | 32.37    | 9.29   | 33.02  | 101    | 120     | P       | H       |
|                              |      | 5458.24   | 40.81      | -13.19 | 54         | 32.19    | 32.35    | 9.29   | 33.02  | 101    | 120     | A       | H       |
|                              | *    | 5580      | 107.94     | -      | -          | 98.96    | 32.57    | 9.48   | 33.07  | 101    | 120     | P       | H       |
|                              | *    | 5580      | 99.87      | -      | -          | 90.89    | 32.57    | 9.48   | 33.07  | 101    | 120     | A       | H       |
|                              |      | 5753.66   | 49.39      | -18.81 | 68.2       | 39.64    | 33.02    | 9.88   | 33.15  | 101    | 120     | P       | H       |
|                              |      | 5457.76   | 48.48      | -25.52 | 74         | 39.86    | 32.35    | 9.29   | 33.02  | 344    | 329     | P       | V       |
|                              |      | 5460.88   | 49.05      | -19.15 | 68.2       | 40.43    | 32.35    | 9.29   | 33.02  | 344    | 329     | P       | V       |
|                              |      | 5453.68   | 40.67      | -13.33 | 54         | 32.05    | 32.35    | 9.29   | 33.02  | 344    | 329     | A       | V       |
|                              | *    | 5580      | 105.82     | -      | -          | 96.84    | 32.57    | 9.48   | 33.07  | 344    | 329     | P       | V       |
|                              | *    | 5580      | 97.51      | -      | -          | 88.53    | 32.57    | 9.48   | 33.07  | 344    | 329     | A       | V       |
|                              |      | 5754.605  | 49.75      | -18.45 | 68.2       | 40       | 33.02    | 9.88   | 33.15  | 344    | 329     | P       | V       |



|                                       |                                                                                             |         |        |        |      |        |       |      |       |     |     |   |   |
|---------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|------|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 110.38 | -      | -    | 100.89 | 32.86 | 9.75 | 33.12 | 100 | 120 | P | H |
|                                       | *                                                                                           | 5700    | 102.35 | -      | -    | 92.86  | 32.86 | 9.75 | 33.12 | 100 | 120 | A | H |
|                                       |                                                                                             | 5726.28 | 58.96  | -9.24  | 68.2 | 49.34  | 32.94 | 9.81 | 33.13 | 100 | 120 | P | H |
|                                       |                                                                                             |         |        |        |      |        |       |      |       |     |     |   | H |
|                                       |                                                                                             |         |        |        |      |        |       |      |       |     |     |   | H |
|                                       |                                                                                             |         |        |        |      |        |       |      |       |     |     |   | H |
|                                       | *                                                                                           | 5700    | 105.68 | -      | -    | 96.19  | 32.86 | 9.75 | 33.12 | 293 | 344 | P | V |
|                                       | *                                                                                           | 5700    | 98.08  | -      | -    | 88.59  | 32.86 | 9.75 | 33.12 | 293 | 344 | A | V |
|                                       |                                                                                             | 5725.56 | 53.17  | -15.03 | 68.2 | 43.55  | 32.94 | 9.81 | 33.13 | 293 | 344 | 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>1            | 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                | 46.65               | -27.35                  | 74                          | 56.07                     | 39.2                          | 15.08                   | 64                         | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 43.26               | -24.94                  | 68.2                        | 49.82                     | 37.1                          | 18.74                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11000                | 46.7                | -27.3                   | 74                          | 56.12                     | 39.2                          | 15.08                   | 64                         | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16500                | 42.79               | -25.41                  | 68.2                        | 49.35                     | 37.1                          | 18.74                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 47.34               | -26.66                  | 74                          | 56.55                     | 38.97                         | 15.2                    | 63.67                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 45.45               | -22.75                  | 68.2                        | 49.97                     | 38.93                         | 18.93                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11160                | 47.91               | -26.09                  | 74                          | 57.12                     | 38.97                         | 15.2                    | 63.67                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16740                | 47.02               | -21.18                  | 68.2                        | 51.54                     | 38.93                         | 18.93                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 46.74               | -27.26                  | 74                          | 55.64                     | 38.64                         | 15.38                   | 63.2                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 48.9                | -19.3                   | 68.2                        | 50.53                     | 40.84                         | 19.18                   | 62                         | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11400                | 47.07               | -26.93                  | 74                          | 55.97                     | 38.64                         | 15.38                   | 63.2                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17100                | 49.31               | -18.89                  | 68.2                        | 50.94                     | 40.84                         | 19.18                   | 62                         | 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 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                                | 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>802.11ac<br/>VHT20<br/>CH 100<br/>5500MHz</b> |      | 5458.32              | 50.32               | -23.68                  | 74                          | 41.7                      | 32.35                         | 9.29                    | 33.02                      | 100                  | 112                     | P                       | H               |
|                                                  |      | 5467.44              | 49.73               | -18.47                  | 68.2                        | 41.09                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 112                     | P                       | H               |
|                                                  |      | 5458.48              | 41.55               | -12.45                  | 54                          | 32.93                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 112                     | A                       | H               |
|                                                  | *    | 5500                 | 104.4               | -                       | -                           | 95.65                     | 32.4                          | 9.37                    | 33.02                      | 100                  | 112                     | P                       | H               |
|                                                  | *    | 5500                 | 95.5                | -                       | -                           | 86.75                     | 32.4                          | 9.37                    | 33.02                      | 100                  | 112                     | A                       | H               |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |      | 5453.52              | 50.26               | -23.74                  | 74                          | 41.64                     | 32.35                         | 9.29                    | 33.02                      | 293                  | 79                      | P                       | V               |
|                                                  |      | 5468.08              | 50.78               | -17.42                  | 68.2                        | 42.14                     | 32.37                         | 9.29                    | 33.02                      | 293                  | 79                      | P                       | V               |
|                                                  |      | 5458.8               | 42.15               | -11.85                  | 54                          | 33.53                     | 32.35                         | 9.29                    | 33.02                      | 293                  | 79                      | A                       | V               |
|                                                  | *    | 5500                 | 105.33              | -                       | -                           | 96.58                     | 32.4                          | 9.37                    | 33.02                      | 293                  | 79                      | P                       | V               |
|                                                  | *    | 5500                 | 96.41               | -                       | -                           | 87.66                     | 32.4                          | 9.37                    | 33.02                      | 293                  | 79                      | A                       | V               |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>802.11ac<br/>VHT20<br/>CH 116<br/>5580MHz</b> |      | 5428.48              | 49.66               | -24.34                  | 74                          | 41.1                      | 32.32                         | 9.26                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5469.76              | 49.22               | -18.98                  | 68.2                        | 40.58                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5458.72              | 40.6                | -13.4                   | 54                          | 31.98                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                                  | *    | 5580                 | 107.97              | -                       | -                           | 98.99                     | 32.57                         | 9.48                    | 33.07                      | 100                  | 121                     | P                       | H               |
|                                                  | *    | 5580                 | 99.11               | -                       | -                           | 90.13                     | 32.57                         | 9.48                    | 33.07                      | 100                  | 121                     | A                       | H               |
|                                                  |      | 5758.385             | 50.05               | -18.15                  | 68.2                        | 40.24                     | 33.02                         | 9.95                    | 33.16                      | 100                  | 121                     | P                       | H               |
|                                                  |      | 5352.16              | 49.01               | -24.99                  | 74                          | 40.6                      | 32.25                         | 9.19                    | 33.03                      | 282                  | 80                      | P                       | V               |
|                                                  |      | 5460.64              | 47.56               | -20.64                  | 68.2                        | 38.94                     | 32.35                         | 9.29                    | 33.02                      | 282                  | 80                      | P                       | V               |
|                                                  |      | 5457.28              | 40.59               | -13.41                  | 54                          | 31.97                     | 32.35                         | 9.29                    | 33.02                      | 282                  | 80                      | A                       | V               |
|                                                  | *    | 5580                 | 105.18              | -                       | -                           | 96.2                      | 32.57                         | 9.48                    | 33.07                      | 282                  | 80                      | P                       | V               |
|                                                  | *    | 5580                 | 96.5                | -                       | -                           | 87.52                     | 32.57                         | 9.48                    | 33.07                      | 282                  | 80                      | A                       | V               |
|                                                  |      | 5742.95              | 50.21               | -17.99                  | 68.2                        | 40.5                      | 32.98                         | 9.88                    | 33.15                      | 282                  | 80                      | P                       | V               |



|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   |   |
|--------------------------------------------------|--------------------------------------------------------------|--------|--------|--------|------|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac<br/>VHT20<br/>CH 140<br/>5700MHz</b> | *                                                            | 5700   | 109.97 | -      | -    | 100.48 | 32.86 | 9.75 | 33.12 | 100 | 121 | P | H |
|                                                  | *                                                            | 5700   | 101.15 | -      | -    | 91.66  | 32.86 | 9.75 | 33.12 | 100 | 121 | A | H |
|                                                  |                                                              | 5726.2 | 57.89  | -10.31 | 68.2 | 48.27  | 32.94 | 9.81 | 33.13 | 100 | 121 | P | H |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | H |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | H |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | H |
|                                                  | *                                                            | 5700   | 107.03 | -      | -    | 97.54  | 32.86 | 9.75 | 33.12 | 281 | 79  | P | V |
|                                                  | *                                                            | 5700   | 98.18  | -      | -    | 88.69  | 32.86 | 9.75 | 33.12 | 281 | 79  | A | V |
|                                                  |                                                              | 5725   | 54.6   | -13.6  | 68.2 | 44.98  | 32.94 | 9.81 | 33.13 | 281 | 79  | P | V |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | V |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | V |
|                                                  |                                                              |        |        |        |      |        |       |      |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.                                  |        |        |        |      |        |       |      |       |     |     |   |   |
|                                                  | 2. All results are PASS against Peak and Average limit line. |        |        |        |      |        |       |      |       |     |     |   |   |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |                                                                                             | 11000                | 46.53               | -27.47                  | 74                          | 55.95                     | 39.2                          | 15.08                   | 64                         | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16500                | 43.18               | -25.02                  | 68.2                        | 49.74                     | 37.1                          | 18.74                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11000                | 46.5                | -27.5                   | 74                          | 55.92                     | 39.2                          | 15.08                   | 64                         | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16500                | 42.76               | -25.44                  | 68.2                        | 49.32                     | 37.1                          | 18.74                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 46.69               | -27.31                  | 74                          | 55.9                      | 38.97                         | 15.2                    | 63.67                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16740                | 44.94               | -23.26                  | 68.2                        | 49.46                     | 38.93                         | 18.93                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11160                | 46.67               | -27.33                  | 74                          | 55.88                     | 38.97                         | 15.2                    | 63.67                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16740                | 45.22               | -22.98                  | 68.2                        | 49.74                     | 38.93                         | 18.93                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 45.97               | -28.03                  | 74                          | 54.87                     | 38.64                         | 15.38                   | 63.2                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17100                | 48.98               | -19.22                  | 68.2                        | 50.61                     | 40.84                         | 19.18                   | 62                         | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11400                | 46.06               | -27.94                  | 74                          | 54.96                     | 38.64                         | 15.38                   | 63.2                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17100                | 48.74               | -19.46                  | 68.2                        | 50.37                     | 40.84                         | 19.18                   | 62                         | 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 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |      | 5459.44              | 53.82               | -20.18                  | 74                          | 45.2                      | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5467.84              | 57.87               | -10.33                  | 68.2                        | 49.23                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5459.68              | 45.64               | -8.36                   | 54                          | 37.02                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                        | *    | 5510                 | 102.64              | -                       | -                           | 93.9                      | 32.4                          | 9.37                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                        | *    | 5510                 | 93.63               | -                       | -                           | 84.89                     | 32.4                          | 9.37                    | 33.03                      | 100                  | 121                     | A                       | H               |
|                                        |      | 5725.625             | 49.76               | -18.44                  | 68.2                        | 40.14                     | 32.94                         | 9.81                    | 33.13                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5459.92              | 51.73               | -22.27                  | 74                          | 43.11                     | 32.35                         | 9.29                    | 33.02                      | 271                  | 79                      | P                       | V               |
|                                        |      | 5470                 | 56.8                | -11.4                   | 68.2                        | 48.16                     | 32.37                         | 9.29                    | 33.02                      | 271                  | 79                      | P                       | V               |
|                                        |      | 5459.2               | 43.83               | -10.17                  | 54                          | 35.21                     | 32.35                         | 9.29                    | 33.02                      | 271                  | 79                      | A                       | V               |
|                                        | *    | 5510                 | 101.19              | -                       | -                           | 92.45                     | 32.4                          | 9.37                    | 33.03                      | 271                  | 79                      | P                       | V               |
|                                        | *    | 5510                 | 91.82               | -                       | -                           | 83.08                     | 32.4                          | 9.37                    | 33.03                      | 271                  | 79                      | A                       | V               |
|                                        |      | 5760.59              | 49.84               | -18.36                  | 68.2                        | 40.03                     | 33.02                         | 9.95                    | 33.16                      | 271                  | 79                      | P                       | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |      | 5459.2               | 48.81               | -25.19                  | 74                          | 40.19                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5461.12              | 49.62               | -18.58                  | 68.2                        | 41                        | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5458.24              | 42.05               | -11.95                  | 54                          | 33.43                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                        | *    | 5550                 | 103.94              | -                       | -                           | 95.03                     | 32.52                         | 9.44                    | 33.05                      | 100                  | 121                     | P                       | H               |
|                                        | *    | 5550                 | 94.85               | -                       | -                           | 85.94                     | 32.52                         | 9.44                    | 33.05                      | 100                  | 121                     | A                       | H               |
|                                        |      | 5730.035             | 51.08               | -17.12                  | 68.2                        | 41.46                     | 32.94                         | 9.81                    | 33.13                      | 100                  | 121                     | P                       | H               |
|                                        |      | 5362.72              | 49.15               | -24.85                  | 74                          | 40.72                     | 32.27                         | 9.19                    | 33.03                      | 287                  | 79                      | P                       | V               |
|                                        |      | 5465.2               | 49.55               | -18.65                  | 68.2                        | 40.91                     | 32.37                         | 9.29                    | 33.02                      | 287                  | 79                      | P                       | V               |
|                                        |      | 5459.44              | 41.8                | -12.2                   | 54                          | 33.18                     | 32.35                         | 9.29                    | 33.02                      | 287                  | 79                      | A                       | V               |
|                                        | *    | 5550                 | 101.72              | -                       | -                           | 92.81                     | 32.52                         | 9.44                    | 33.05                      | 287                  | 79                      | P                       | V               |
|                                        | *    | 5550                 | 92.74               | -                       | -                           | 83.83                     | 32.52                         | 9.44                    | 33.05                      | 287                  | 79                      | A                       | V               |
|                                        |      | 5755.55              | 49.93               | -18.27                  | 68.2                        | 40.18                     | 33.02                         | 9.88                    | 33.15                      | 287                  | 79                      | P                       | V               |



|                                                                    |                                                                                             |         |        |        |      |       |       |      |       |     |     |   |   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|------|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5451.5  | 48.54  | -25.46 | 74   | 39.92 | 32.35 | 9.29 | 33.02 | 100 | 121 | P | H |
|                                                                    |                                                                                             | 5470    | 47.77  | -20.43 | 68.2 | 39.13 | 32.37 | 9.29 | 33.02 | 100 | 121 | P | H |
|                                                                    |                                                                                             | 5453.6  | 41.16  | -12.84 | 54   | 32.54 | 32.35 | 9.29 | 33.02 | 100 | 121 | A | H |
|                                                                    | *                                                                                           | 5670    | 105.35 | -      | -    | 95.97 | 32.81 | 9.68 | 33.11 | 100 | 121 | P | H |
|                                                                    | *                                                                                           | 5670    | 96.79  | -      | -    | 87.41 | 32.81 | 9.68 | 33.11 | 100 | 121 | A | H |
|                                                                    |                                                                                             | 5734.55 | 54.89  | -13.31 | 68.2 | 45.18 | 32.98 | 9.88 | 33.15 | 100 | 121 | P | H |
|                                                                    |                                                                                             | 5353.15 | 48.65  | -25.35 | 74   | 40.24 | 32.25 | 9.19 | 33.03 | 284 | 79  | P | V |
|                                                                    |                                                                                             | 5464.8  | 47.85  | -20.35 | 68.2 | 39.21 | 32.37 | 9.29 | 33.02 | 284 | 79  | P | V |
|                                                                    |                                                                                             | 5437.85 | 41.05  | -12.95 | 54   | 32.48 | 32.33 | 9.26 | 33.02 | 284 | 79  | A | V |
|                                                                    | *                                                                                           | 5670    | 102.41 | -      | -    | 93.03 | 32.81 | 9.68 | 33.11 | 284 | 79  | P | V |
|                                                                    | *                                                                                           | 5670    | 94.01  | -      | -    | 84.63 | 32.81 | 9.68 | 33.11 | 284 | 79  | A | V |
|                                                                    |                                                                                             | 5740.85 | 51.57  | -16.63 | 68.2 | 41.86 | 32.98 | 9.88 | 33.15 | 284 | 79  | P | 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 802.11ac VHT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |                                                                                             | 11020                | 46.23               | -27.77                  | 74                          | 55.62                     | 39.18                         | 15.11                   | 63.97                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16530                | 42.81               | -25.39                  | 68.2                        | 49.09                     | 37.36                         | 18.76                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11020                | 45.72               | -28.28                  | 74                          | 55.11                     | 39.18                         | 15.11                   | 63.97                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16530                | 43.06               | -25.14                  | 68.2                        | 49.34                     | 37.36                         | 18.76                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |                                                                                             | 11100                | 46.56               | -27.44                  | 74                          | 55.85                     | 39.06                         | 15.16                   | 63.8                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16650                | 43.65               | -24.55                  | 68.2                        | 48.9                      | 38.28                         | 18.86                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11100                | 46.27               | -27.73                  | 74                          | 55.56                     | 39.06                         | 15.16                   | 63.8                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16650                | 44.32               | -23.88                  | 68.2                        | 49.57                     | 38.28                         | 18.86                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 134<br>5670MHz |                                                                                             | 11340                | 47.03               | -26.97                  | 74                          | 56.01                     | 38.73                         | 15.33                   | 63.33                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17010                | 46.73               | -21.47                  | 68.2                        | 48.94                     | 40.89                         | 19.14                   | 62.58                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11340                | 47.77               | -26.23                  | 74                          | 56.75                     | 38.73                         | 15.33                   | 63.33                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17010                | 47.36               | -20.84                  | 68.2                        | 49.57                     | 40.89                         | 19.14                   | 62.58                      | 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 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 5456.08              | 56.91               | -17.09                  | 74                          | 48.29                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5464.96              | 57.61               | -10.59                  | 68.2                        | 48.97                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5458.72              | 49.81               | -4.19                   | 54                          | 41.19                     | 32.35                         | 9.29                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                        | *                                                                                           | 5530                 | 99.65               | -                       | -                           | 90.85                     | 32.44                         | 9.41                    | 33.05                      | 100                  | 121                     | P                       | H               |
|                                        | *                                                                                           | 5530                 | 90.27               | -                       | -                           | 81.47                     | 32.44                         | 9.41                    | 33.05                      | 100                  | 121                     | A                       | H               |
|                                        |                                                                                             | 5744.525             | 50.17               | -18.03                  | 68.2                        | 40.46                     | 32.98                         | 9.88                    | 33.15                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5458.24              | 56.21               | -17.79                  | 74                          | 47.59                     | 32.35                         | 9.29                    | 33.02                      | 285                  | 79                      | P                       | V               |
|                                        |                                                                                             | 5464                 | 56.53               | -11.67                  | 68.2                        | 47.89                     | 32.37                         | 9.29                    | 33.02                      | 285                  | 79                      | P                       | V               |
|                                        |                                                                                             | 5459.2               | 48.84               | -5.16                   | 54                          | 40.22                     | 32.35                         | 9.29                    | 33.02                      | 285                  | 79                      | A                       | V               |
|                                        | *                                                                                           | 5530                 | 97.82               | -                       | -                           | 89.02                     | 32.44                         | 9.41                    | 33.05                      | 285                  | 79                      | P                       | V               |
|                                        | *                                                                                           | 5530                 | 88.05               | -                       | -                           | 79.25                     | 32.44                         | 9.41                    | 33.05                      | 285                  | 79                      | A                       | V               |
|                                        |                                                                                             | 5760.905             | 49.63               | -18.57                  | 68.2                        | 39.82                     | 33.02                         | 9.95                    | 33.16                      | 285                  | 79                      | P                       | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5366.56              | 49.54               | -24.46                  | 74                          | 41.11                     | 32.27                         | 9.19                    | 33.03                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5462.56              | 48.77               | -19.43                  | 68.2                        | 40.13                     | 32.37                         | 9.29                    | 33.02                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5436.88              | 41.15               | -12.85                  | 54                          | 32.58                     | 32.33                         | 9.26                    | 33.02                      | 100                  | 121                     | A                       | H               |
|                                        | *                                                                                           | 5610                 | 101.36              | -                       | -                           | 92.24                     | 32.65                         | 9.55                    | 33.08                      | 100                  | 121                     | P                       | H               |
|                                        | *                                                                                           | 5610                 | 91.78               | -                       | -                           | 82.66                     | 32.65                         | 9.55                    | 33.08                      | 100                  | 121                     | A                       | H               |
|                                        |                                                                                             | 5727.9               | 51.64               | -16.56                  | 68.2                        | 42.02                     | 32.94                         | 9.81                    | 33.13                      | 100                  | 121                     | P                       | H               |
|                                        |                                                                                             | 5359.12              | 49.92               | -24.08                  | 74                          | 41.51                     | 32.25                         | 9.19                    | 33.03                      | 295                  | 79                      | P                       | V               |
|                                        |                                                                                             | 5468.8               | 48.39               | -19.81                  | 68.2                        | 39.75                     | 32.37                         | 9.29                    | 33.02                      | 295                  | 79                      | P                       | V               |
|                                        |                                                                                             | 5441.2               | 40.87               | -13.13                  | 54                          | 32.3                      | 32.33                         | 9.26                    | 33.02                      | 295                  | 79                      | A                       | V               |
|                                        | *                                                                                           | 5610                 | 97.66               | -                       | -                           | 88.54                     | 32.65                         | 9.55                    | 33.08                      | 295                  | 79                      | P                       | V               |
|                                        | *                                                                                           | 5610                 | 88.72               | -                       | -                           | 79.6                      | 32.65                         | 9.55                    | 33.08                      | 295                  | 79                      | A                       | V               |
|                                        |                                                                                             | 5736.125             | 50.31               | -17.89                  | 68.2                        | 40.6                      | 32.98                         | 9.88                    | 33.15                      | 295                  | 79                      | P                       | V               |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                              | 11060                | 47.34               | -26.66                  | 74                          | 56.68                     | 39.11                         | 15.13                   | 63.87                      | 100                  | 0                       | P                       | H               |
|                                        |                                                              | 16590                | 44.28               | -23.92                  | 68.2                        | 50.11                     | 37.76                         | 18.81                   | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              | 11060                | 46.22               | -27.78                  | 74                          | 55.56                     | 39.11                         | 15.13                   | 63.87                      | 100                  | 0                       | P                       | V               |
|                                        |                                                              | 16590                | 43.86               | -24.34                  | 68.2                        | 49.69                     | 37.76                         | 18.81                   | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                              | 11220                | 46.57               | -27.43                  | 74                          | 55.7                      | 38.9                          | 15.25                   | 63.57                      | 100                  | 0                       | P                       | H               |
|                                        |                                                              | 16830                | 45.55               | -22.65                  | 68.2                        | 49.33                     | 39.59                         | 19                      | 62.7                       | 100                  | 0                       | P                       | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              | 11220                | 47.33               | -26.67                  | 74                          | 56.46                     | 38.9                          | 15.25                   | 63.57                      | 100                  | 0                       | P                       | V               |
|                                        |                                                              | 16830                | 45.04               | -23.16                  | 68.2                        | 48.82                     | 39.59                         | 19                      | 62.7                       | 100                  | 0                       | P                       | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                 | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                        | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**Band 3 - Straddle Channel**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI                         | Note                                                         | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------------|--------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                         |                                                              |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                            |                                                              | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 144<br>5720MHz | *                                                            | 5720      | 110.46     | -      | -          | 100.84 | 32.94    | 9.81   | 33.13  | 100    | 117     | P     | H     |
|                              | *                                                            | 5720      | 102.3      | -      | -          | 92.68  | 32.94    | 9.81   | 33.13  | 100    | 117     | A     | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              | *                                                            | 5720      | 105.82     | -      | -          | 96.2   | 32.94    | 9.81   | 33.13  | 352    | 84      | P     | V     |
|                              | *                                                            | 5720      | 98.34      | -      | -          | 88.72  | 32.94    | 9.81   | 33.13  | 352    | 84      | A     | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                       | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                              | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



**Band 3 - Straddle Channel**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                     | 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>802.11a<br/>CH 144<br/>5720MHz</b> |                                                                                             | 11440                | 45.74               | -28.26                  | 74                          | 54.6                    | 38.59                         | 15.4                    | 63.13                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 17160                | 48.65               | -19.55                  | 68.2                        | 49.82                   | 40.8                          | 19.21                   | 61.53                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 11440                | 45.45               | -28.55                  | 74                          | 54.31                   | 38.59                         | 15.4                    | 63.13                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 17160                | 48.35               | -19.85                  | 68.2                        | 49.52                   | 40.8                          | 19.21                   | 61.53                      | 100                  | 0                       | P                     | 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 - Straddle Channel**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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) |
|----------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 144<br>5720MHz | *                                                            | 5720                 | 109.29              | -                       | -                           | 99.67                   | 32.94                         | 9.81                    | 33.13                      | 100                  | 117                     | P                     | H             |
|                                        | *                                                            | 5720                 | 100.92              | -                       | -                           | 91.3                    | 32.94                         | 9.81                    | 33.13                      | 100                  | 117                     | A                     | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        | *                                                            | 5720                 | 105.12              | -                       | -                           | 95.5                    | 32.94                         | 9.81                    | 33.13                      | 352                  | 84                      | P                     | V             |
|                                        | *                                                            | 5720                 | 96.99               | -                       | -                           | 87.37                   | 32.94                         | 9.81                    | 33.13                      | 352                  | 84                      | A                     | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.                                  |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |
|                                        | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 144<br>5720MHz |                                                                                             | 11440                | 46.42               | -27.58                  | 74                          | 55.28                   | 38.59                         | 15.4                    | 63.13                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             | 17160                | 49.56               | -18.64                  | 68.2                        | 50.73                   | 40.8                          | 19.21                   | 61.53                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             | 11440                | 45.74               | -28.26                  | 74                          | 54.6                    | 38.59                         | 15.4                    | 63.13                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             | 17160                | 48.99               | -19.21                  | 68.2                        | 50.16                   | 40.8                          | 19.21                   | 61.53                      | 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 3 - Straddle Channel**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 142<br>5710MHz | *                                                            | 5710                 | 106.08              | -                       | -                           | 96.5                      | 32.9                          | 9.81                    | 33.13                      | 100                  | 116                     | P                       | H               |
|                                        | *                                                            | 5710                 | 97.3                | -                       | -                           | 87.72                     | 32.9                          | 9.81                    | 33.13                      | 100                  | 116                     | A                       | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        | *                                                            | 5710                 | 101.7               | -                       | -                           | 92.12                     | 32.9                          | 9.81                    | 33.13                      | 351                  | 83                      | P                       | V               |
|                                        | *                                                            | 5710                 | 93.28               | -                       | -                           | 83.7                      | 32.9                          | 9.81                    | 33.13                      | 351                  | 83                      | A                       | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                 | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                        | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 142<br>5710MHz |                                                                                             | 11420                | 45.54               | -28.46                  | 74                          | 54.42                     | 38.62                         | 15.39                   | 63.17                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17130                | 48.57               | -19.63                  | 68.2                        | 49.97                     | 40.82                         | 19.2                    | 61.77                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11420                | 47.06               | -26.94                  | 74                          | 55.94                     | 38.62                         | 15.39                   | 63.17                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17130                | 48.8                | -19.4                   | 68.2                        | 50.2                      | 40.82                         | 19.2                    | 61.77                      | 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 3 - Straddle Channel**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | 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) |
|----------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz | *                                                            | 5690                 | 101.54              | -                       | -                           | 92.05                   | 32.86                         | 9.75                    | 33.12                      | 100                  | 116                     | P                     | H             |
|                                        | *                                                            | 5690                 | 92.62               | -                       | -                           | 83.13                   | 32.86                         | 9.75                    | 33.12                      | 100                  | 116                     | A                     | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        | *                                                            | 5690                 | 97.48               | -                       | -                           | 87.99                   | 32.86                         | 9.75                    | 33.12                      | 287                  | 82                      | P                     | V             |
|                                        | *                                                            | 5690                 | 89.12               | -                       | -                           | 79.63                   | 32.86                         | 9.75                    | 33.12                      | 287                  | 82                      | A                     | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.                                  |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |
|                                        | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                      | 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) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |                                                                                             | 11380                | 46.06               | -27.94                  | 74                          | 54.98                   | 38.66                         | 15.36                   | 63.23                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             | 17070                | 47.63               | -20.57                  | 68.2                        | 49.48                   | 40.86                         | 19.17                   | 62.23                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             | 11380                | 46.25               | -27.75                  | 74                          | 55.17                   | 38.66                         | 15.36                   | 63.23                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             | 17070                | 47.48               | -20.72                  | 68.2                        | 49.33                   | 40.86                         | 19.17                   | 62.23                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

## Emission below 1GHz

**WIFI 802.11ac VHT80 (LF @ 3m)**

| WIFI                    | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                    |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                       |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT80<br>LF |                                                                            | 98.31     | 23.17      | -20.33 | 43.5       | 38.45  | 15.79    | 1.39   | 32.48  | -      | -       | P     | H     |
|                         |                                                                            | 134.49    | 30.15      | -13.35 | 43.5       | 43.61  | 17.43    | 1.51   | 32.45  | -      | -       | P     | H     |
|                         |                                                                            | 155.82    | 29.79      | -13.71 | 43.5       | 43.91  | 16.61    | 1.61   | 32.43  | -      | -       | P     | H     |
|                         |                                                                            | 332.2     | 25.48      | -20.52 | 46         | 35.59  | 19.8     | 2.39   | 32.36  | -      | -       | P     | H     |
|                         |                                                                            | 632.5     | 27.81      | -18.19 | 46         | 30.64  | 26.38    | 3.15   | 32.46  | -      | -       | P     | H     |
|                         |                                                                            | 951.7     | 33.46      | -12.54 | 46         | 29.79  | 30.86    | 3.82   | 31.18  | 100    | 0       | P     | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            | 31.08     | 31.43      | -8.57  | 40         | 39.24  | 23.84    | 0.82   | 32.49  | 110    | 241     | P     | V     |
|                         |                                                                            | 35.4      | 29.57      | -10.43 | 40         | 39.94  | 21.3     | 0.82   | 32.49  | -      | -       | P     | V     |
|                         |                                                                            | 73.74     | 25.51      | -14.49 | 40         | 44.32  | 12.44    | 1.22   | 32.49  | -      | -       | P     | V     |
|                         |                                                                            | 461       | 24.48      | -21.52 | 46         | 30.63  | 23.4     | 2.77   | 32.36  | -      | -       | P     | V     |
|                         |                                                                            | 763.4     | 30.71      | -15.29 | 46         | 31.17  | 28.25    | 3.44   | 32.29  | -      | -       | P     | V     |
|                         |                                                                            | 949.6     | 33.38      | -12.62 | 46         | 29.82  | 30.77    | 3.82   | 31.2   | -      | -       | P     | 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>P</b> eak or <b>A</b> verage                                                                                                                          |
| H/V | <b>H</b> orizontal or <b>V</b> ertical                                                                                                                   |



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.    |         |
| 1       |      | ( 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”.



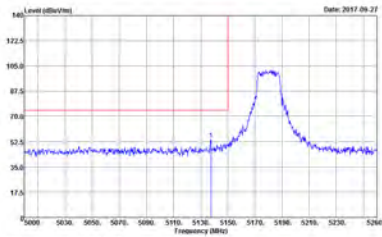
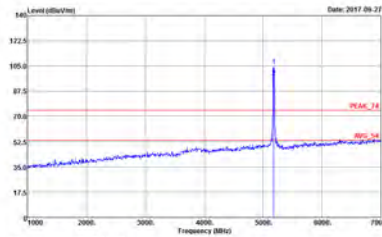
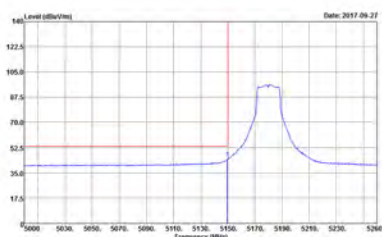
## Appendix D. Radiated Spurious Emission

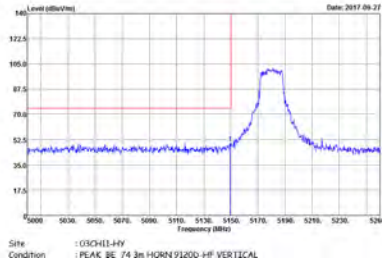
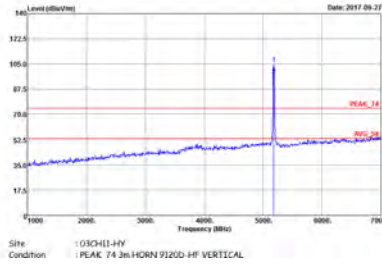
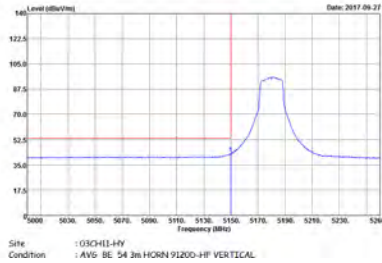
|                 |                     |                     |           |
|-----------------|---------------------|---------------------|-----------|
| Test Engineer : | Hao Hsu, and Ken Wu | Temperature :       | 24 ~ 26°C |
|                 |                     | Relative Humidity : | 50 ~ 55%  |

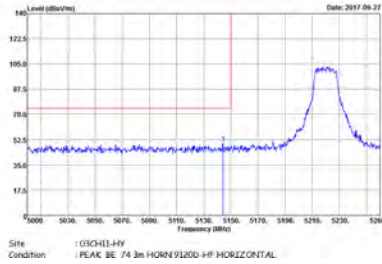
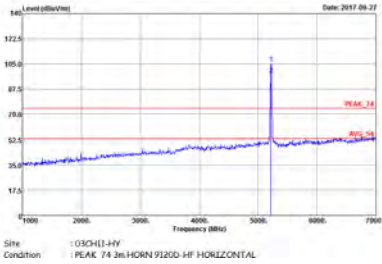
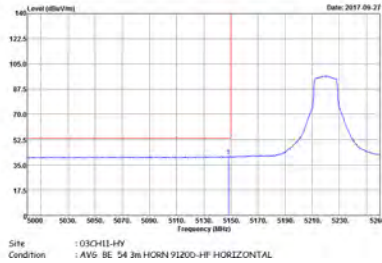
### Note symbol

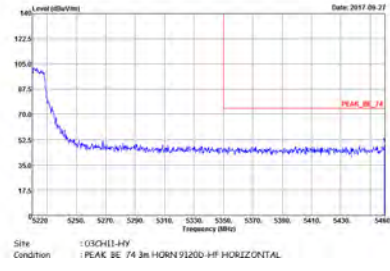
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

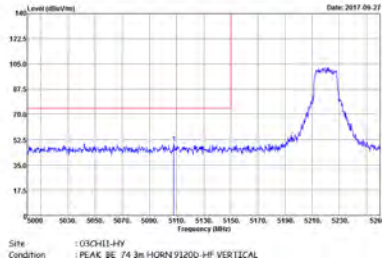
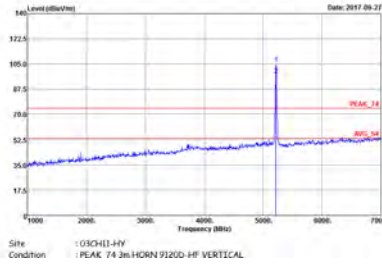
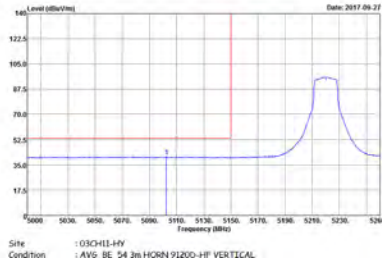
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                   |                                                                                                                                                                   |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH36 5180MHz                                                                                                                                                 |                                                                                                                                                                   |
| 1           | Horizontal                                                                                                                                                           | Fundamental                                                                                                                                                       |
| <b>Peak</b> |  <p>Site: 103CH11-HY<br/> Condition: : PEAK BE 74 3m HORN 9120D -HF HORIZONTAL</p>  |  <p>Site: 103CH11-HY<br/> Condition: : PEAK 74 3m HORN 9120D -HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site: 103CH11-HY<br/> Condition: : AVG BE 54 3m HORN 9120D -HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                                 |

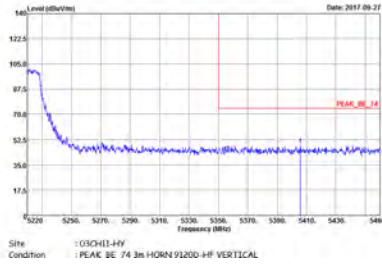
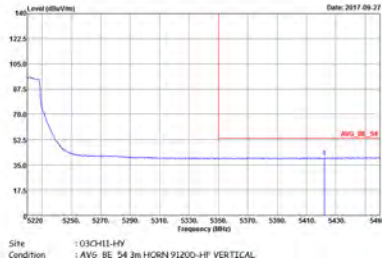
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                            |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                           |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

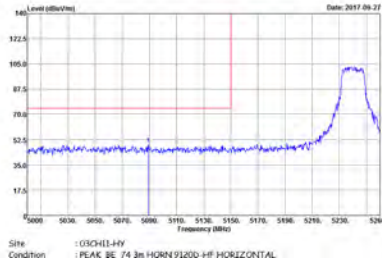
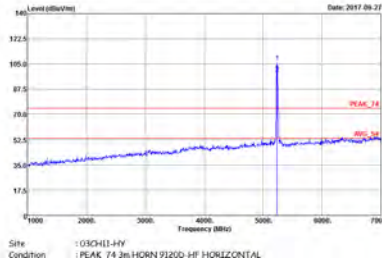
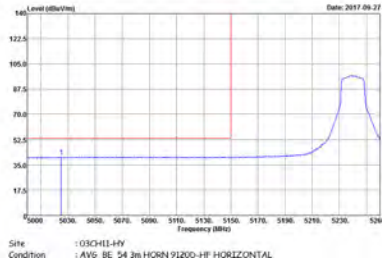
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |             |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11a CH44 5220MHz - R                                                                                                                                           |             |
| 1           | Horizontal                                                                                                                                                         | Fundamental |
| <b>Peak</b> |  <p>Site : 103CH11-HY<br/>Condition : PEAK_ME_14 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| <b>Avg.</b> |  <p>Site : 103CH11-HY<br/>Condition : AVG_ME_14 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                        |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

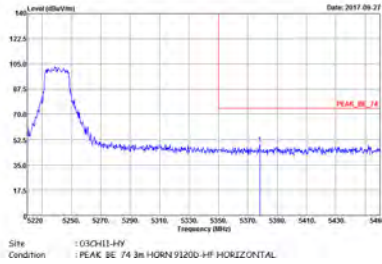
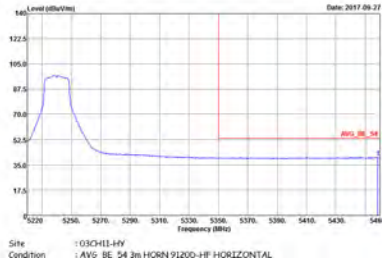


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                            |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

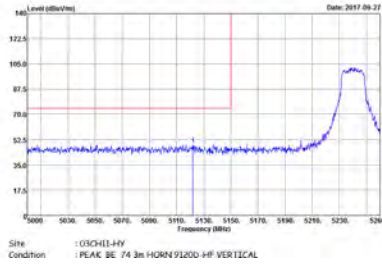
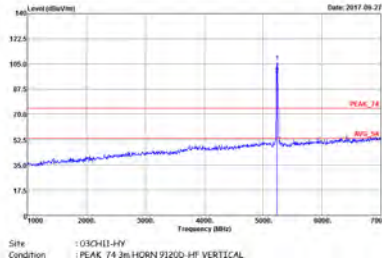
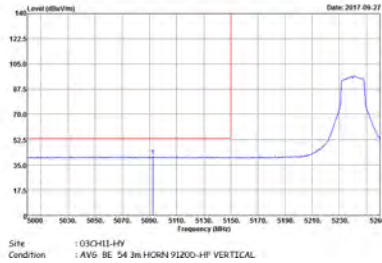


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                           |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4FV<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4FV<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4FV<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                      |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |



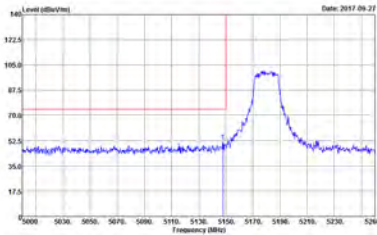
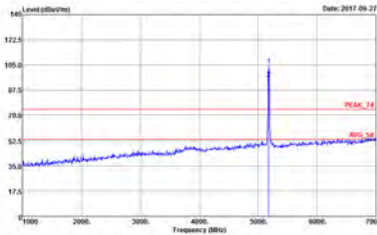
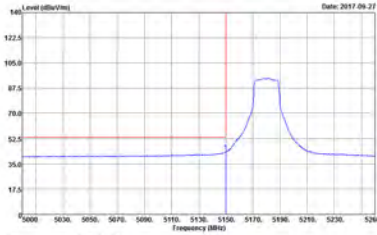
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                        |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

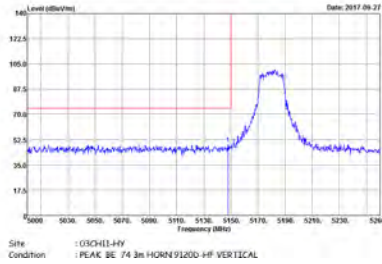
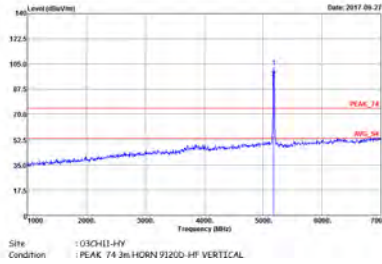
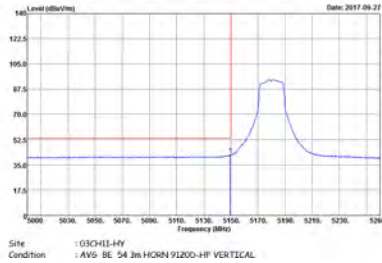


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R           |             |
| 1    | Vertical                           | Fundamental |
| Peak |                                    | Left blank  |
| Avg. |                                    | Left blank  |

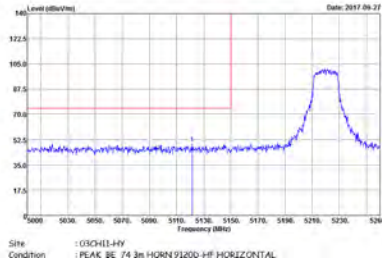
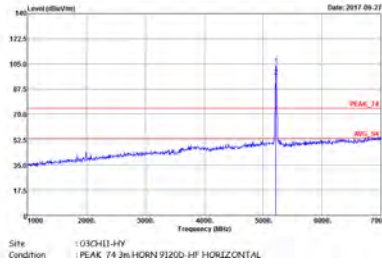
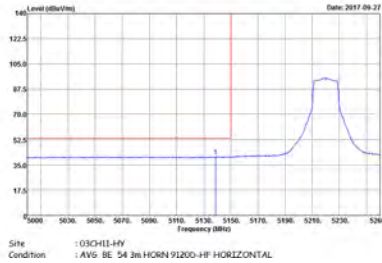


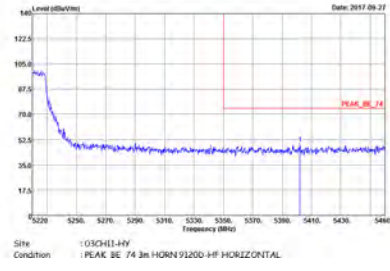
Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

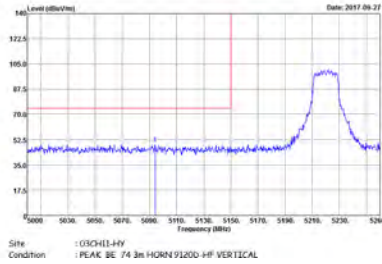
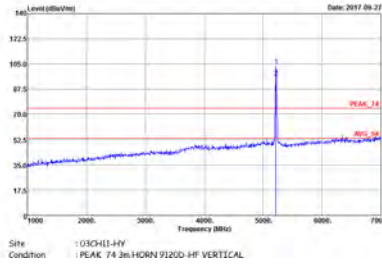
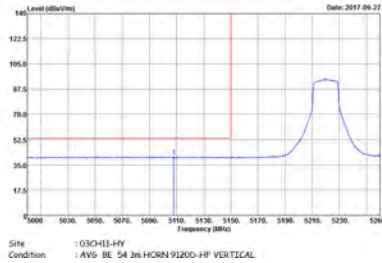
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                       |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                     |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

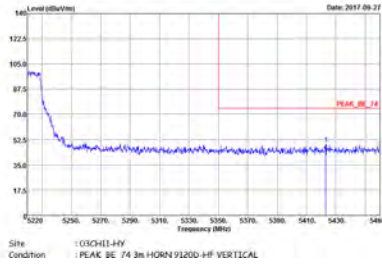
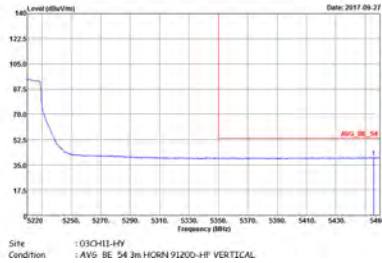


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - L                                                                                                                                   |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |

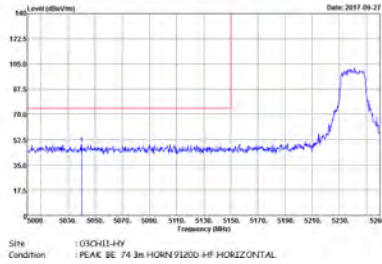
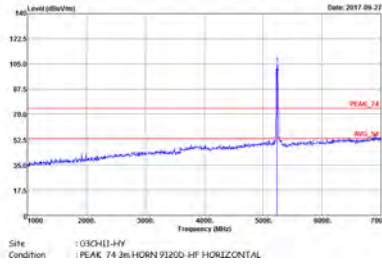
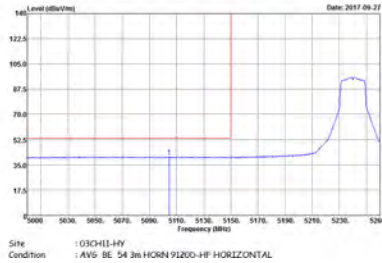
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11ac VHT20 CH44 5220MHz - R                                                                                                                                   |             |
| 1           | Horizontal                                                                                                                                                        | Fundamental |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

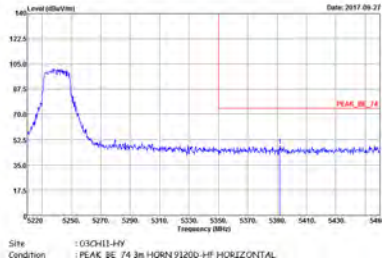
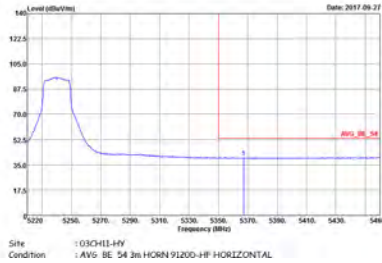


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - R                                                     |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

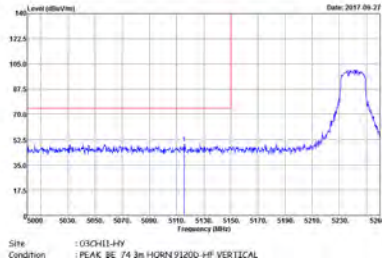
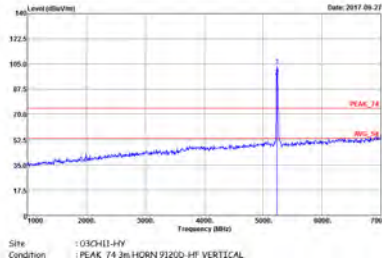
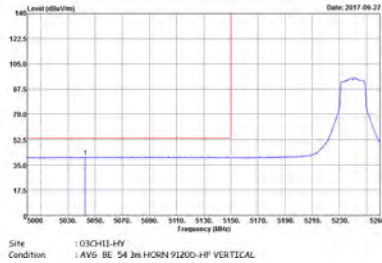


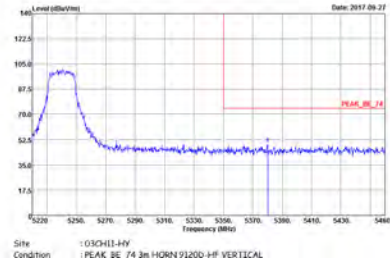
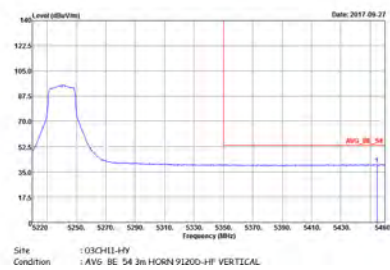
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                                                   |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |



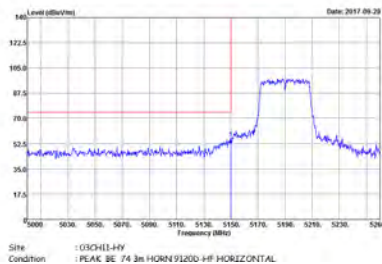
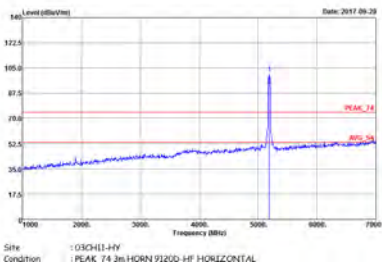
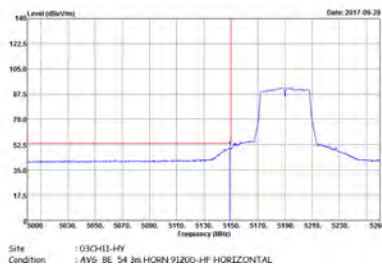
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                     |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

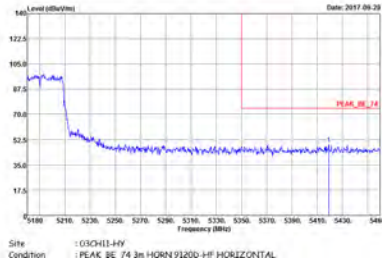
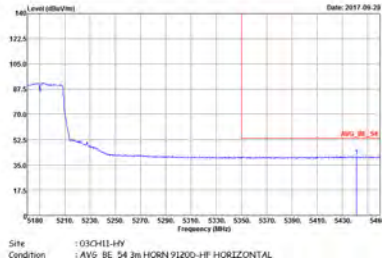


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11ac VHT20 CH48 5240MHz - R                                                                                                                                 |             |
| 1           | Vertical                                                                                                                                                        | Fundamental |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

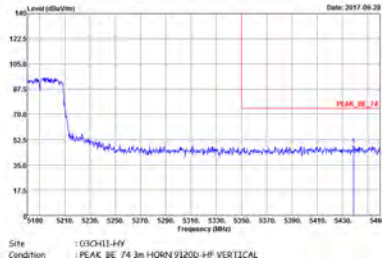
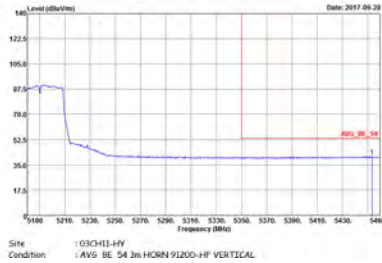
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                    |                                                                                                                                                                 |
| 1           | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                               |

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|-------------|-------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11ac VHT40 CH38 5190MHz - R                                                     |             |
| 1           | Horizontal                                                                          | Fundamental |
| <b>Peak</b> |    | Left blank  |
| <b>Avg.</b> |  | Left blank  |

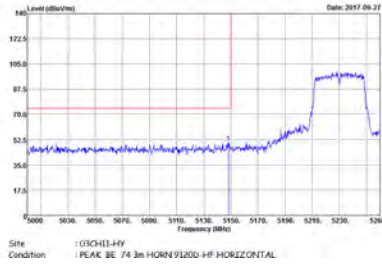
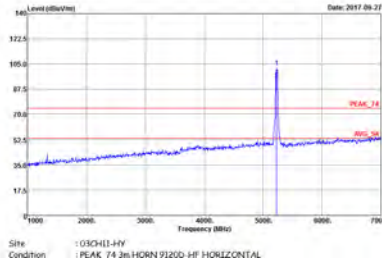
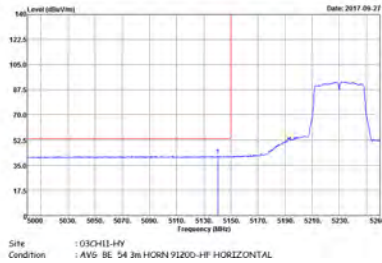


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L    |             |
| 1    | Vertical                           | Fundamental |
| Peak |                                    |             |
| Avg. |                                    | Left blank  |

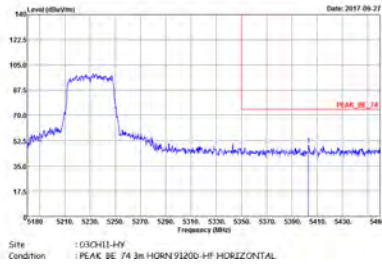
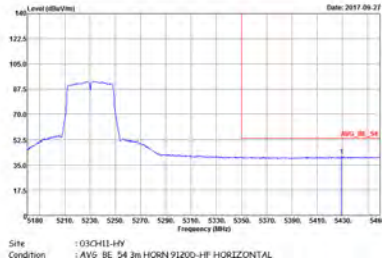


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R                                                     |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

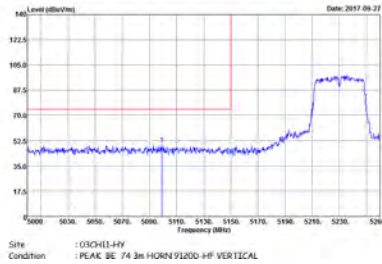
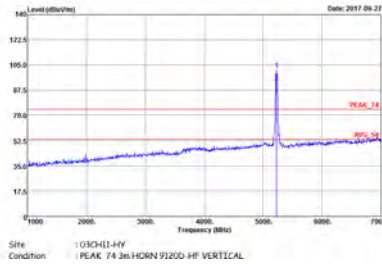
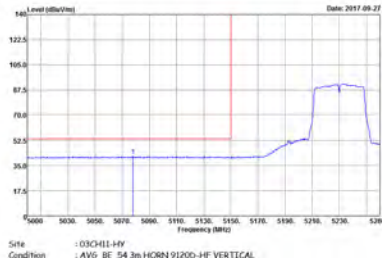


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                   |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - R                                                     |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

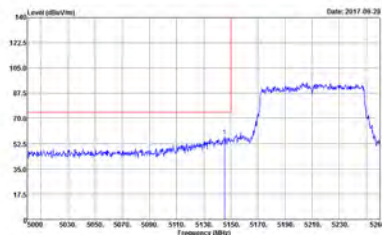
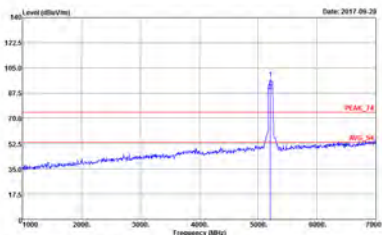
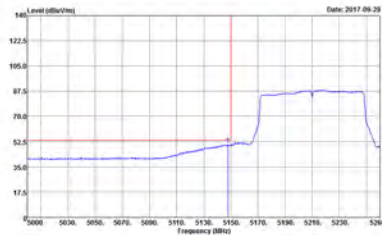


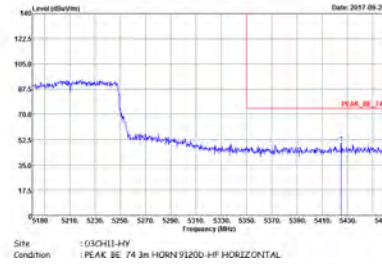
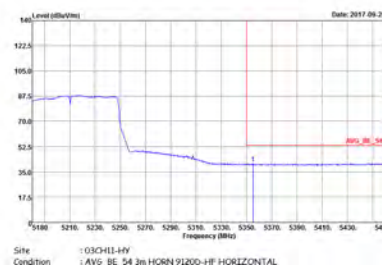
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CHI1-HY<br/>Condition : PEAK BE 74 3m HORN 9120D-HF VERTICAL</p>  |  <p>Site : 03CHI1-HY<br/>Condition : PEAK 74 3m HORN 9120D-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CHI1-HY<br/>Condition : AVG BE 54 3m HORN 9120D-HF VERTICAL</p> | Left blank                                                                                                                                                   |

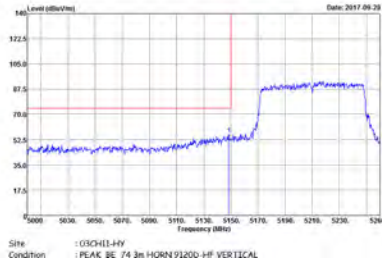
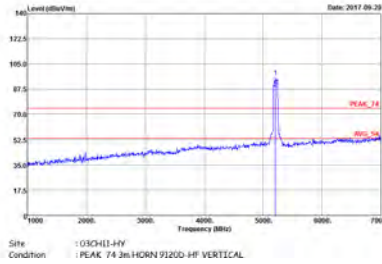
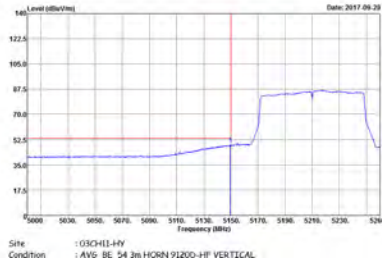


| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m |             |
|-------------|------------------------------------|-------------|
| ANT         | 802.11ac VHT40 CH46 5230MHz - R    |             |
| 1           | Vertical                           | Fundamental |
| <b>Peak</b> |                                    | Left blank  |
| <b>Avg.</b> |                                    | Left blank  |

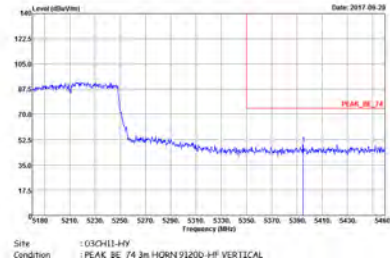
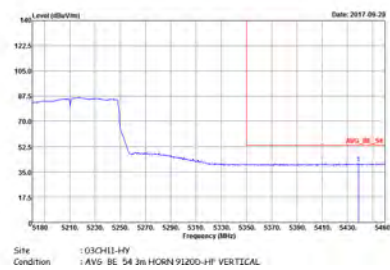
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                    |                                                                                                                                                                 |
| 1           | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                               |

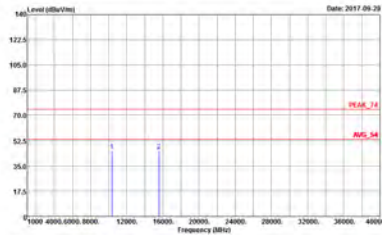
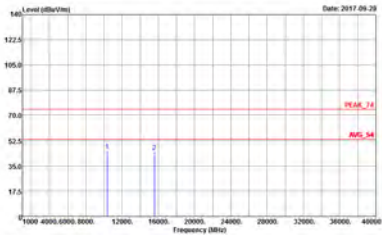
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                   |             |
| 1           | Horizontal                                                                                                                                                        | Fundamental |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

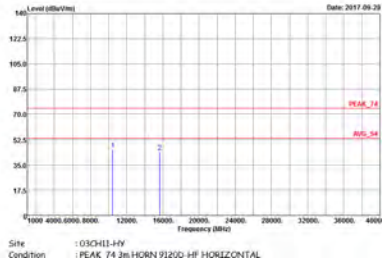
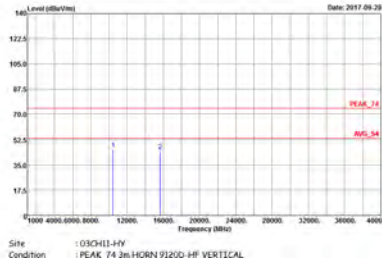


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                 |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                            |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CHILL-HY<br/> Condition : PEAK 74 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CHILL-HY<br/> Condition : PEAK 74 3m HORN 9120D-HF VERTICAL</p> |



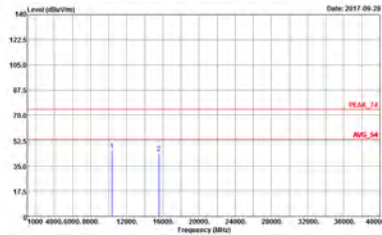
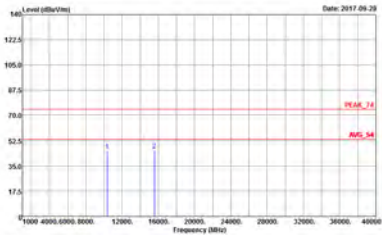
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH44 5220MHz                                                                                                                                           |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200 -HF VERTICAL</p> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                             |                                                                             |
|--------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                          |                                                                             |
| 1            | Horizontal                                                                    | Vertical                                                                    |
| Peak<br>Avg. | <p>Site : 03CHILL-4Y<br/>Condition : PEAK 74 3m HORN 91200 -Hf HORIZONTAL</p> | <p>Site : 03CHILL-4Y<br/>Condition : PEAK 74 3m HORN 91200 -Hf VERTICAL</p> |



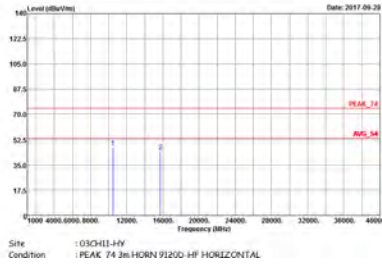
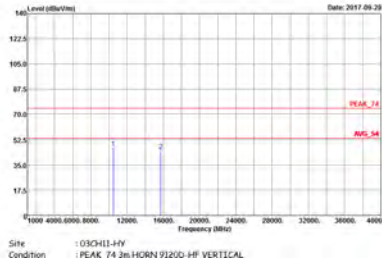
Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                             |                                                                                                                                                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH36 5180MHz                                                                                                                                   |                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                    | Vertical                                                                                                                                                     |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |



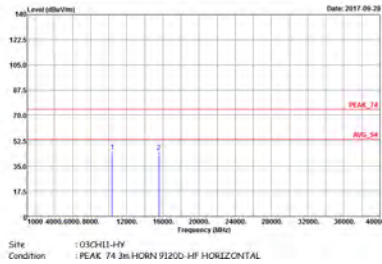
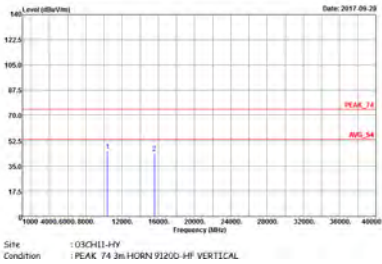
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                             |                                                                             |
|--------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH44 5220MHz                                                   |                                                                             |
| 1            | Horizontal                                                                    | Vertical                                                                    |
| Peak<br>Avg. | <p>Site : 03CHILL-4F<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> | <p>Site : 03CHILL-4F<br/>Condition : PEAK 74 3m HORN 91200 -HF VERTICAL</p> |



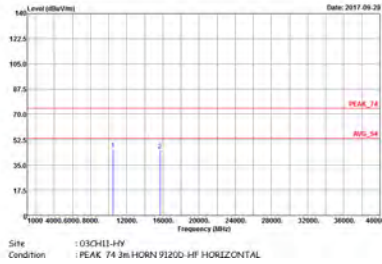
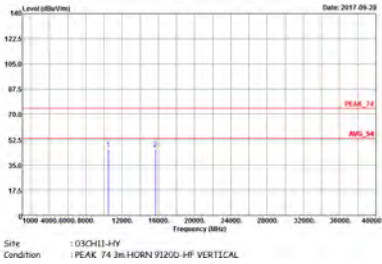
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH48 5240MHz                                                       |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



Band 1 5150~5250MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

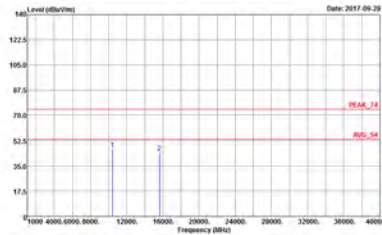
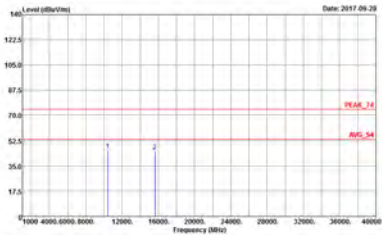
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                           |                                                                                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH38 5190MHz                                                                                                                                 |                                                                                                                                                            |
| 1            | Horizontal                                                                                                                                                  | Vertical                                                                                                                                                   |
| Peak<br>Avg. |  <p>Site: 03CH11-HY<br/>Condition: PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site: 03CH11-HY<br/>Condition: PEAK 74 3m HORN 91200-HF VERTICAL</p> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH46 5230MHz                                                                                                                                     |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CHILL-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |  <p>Site : 03CHILL-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF VERTICAL</p> |

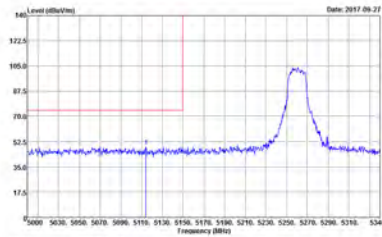
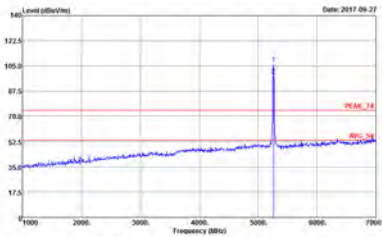
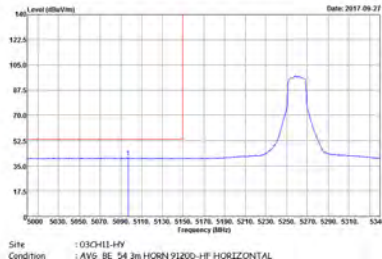


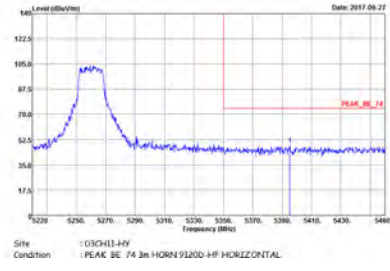
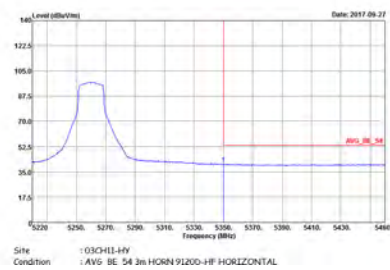
Band 1 5150~5250MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

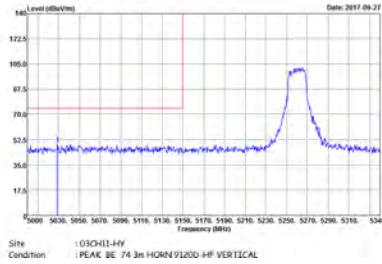
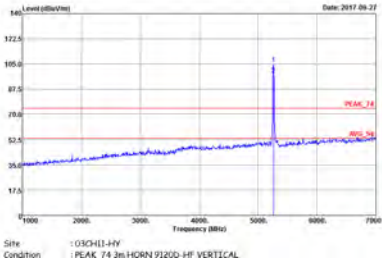
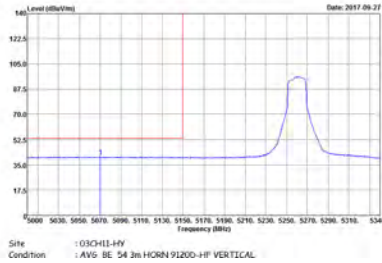
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                             |                                                                                                                                                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH42 5210MHz                                                                                                                                   |                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                    | Vertical                                                                                                                                                     |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |

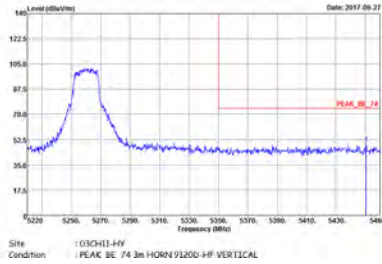
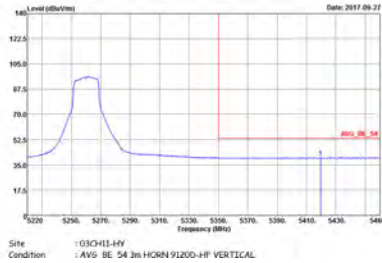


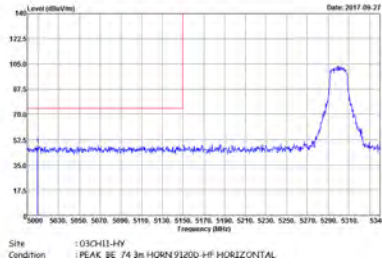
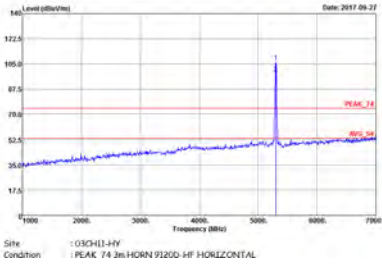
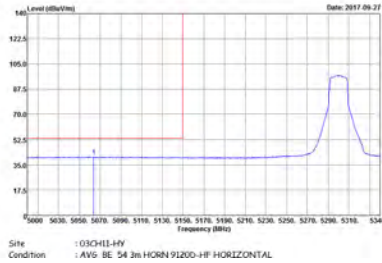
**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                           |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 9120D -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 9120D -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 9120D -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

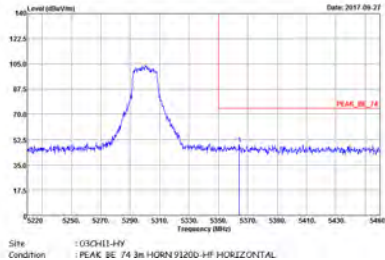
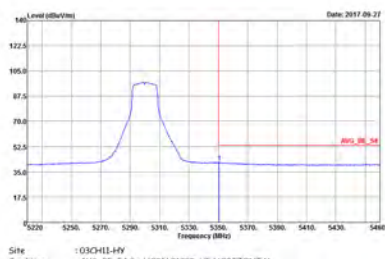
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

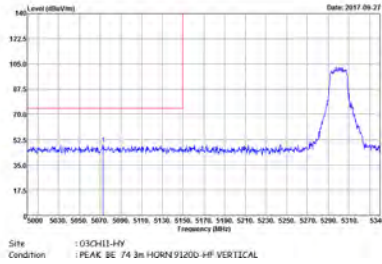
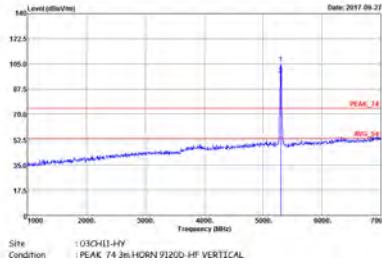
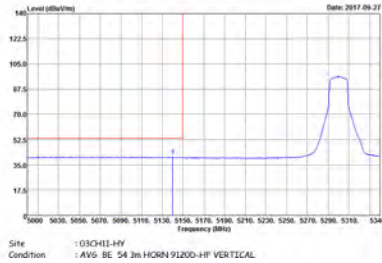
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                        |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                        |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

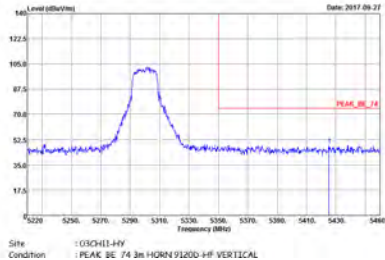
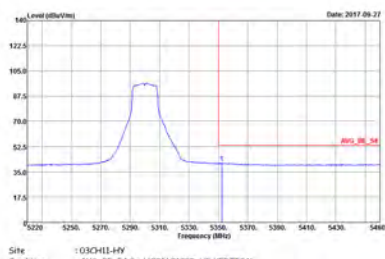
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                          |                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                     |

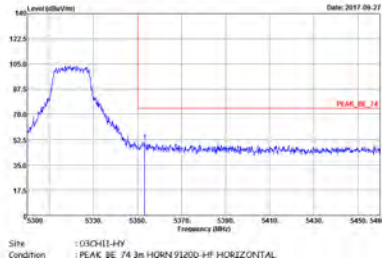
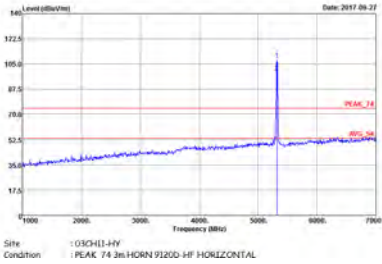


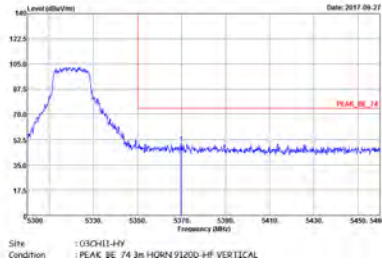
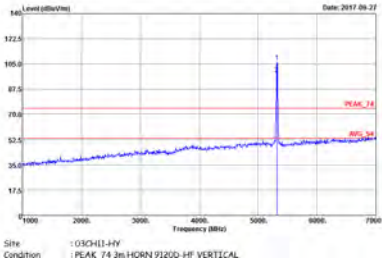
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                            |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                        |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |



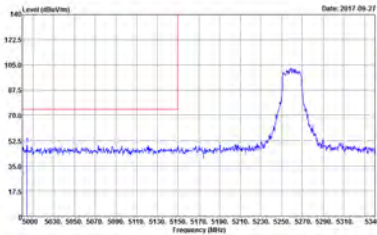
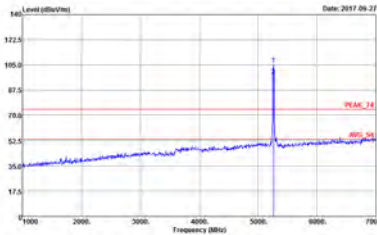
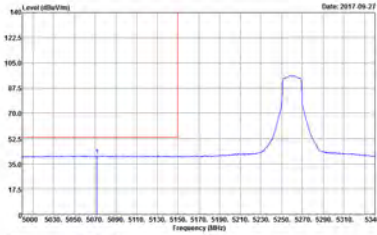
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                        |             |
| 1    | Vertical                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                               |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

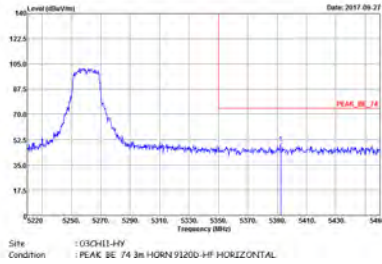
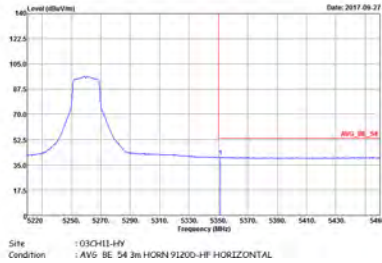
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                               |                                                                                                                                                               |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                             |                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                         | Fundamental                                                                                                                                                   |
| Peak |  <p>Site : 03CH11-4FV<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4FV<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4FV<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                    |

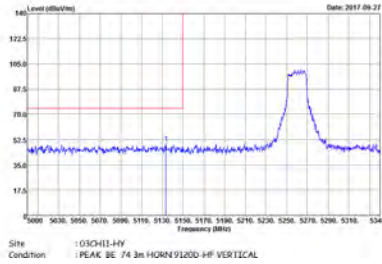
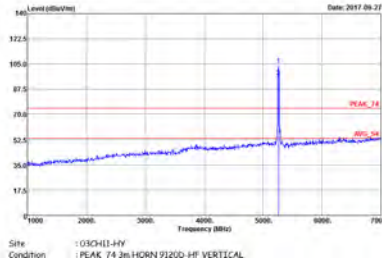
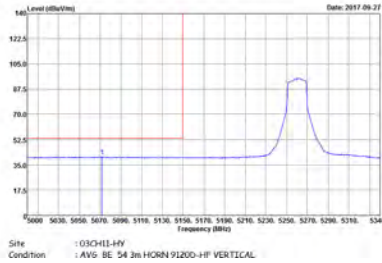


Band 2 5250~5350MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

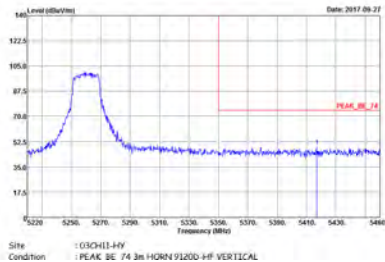
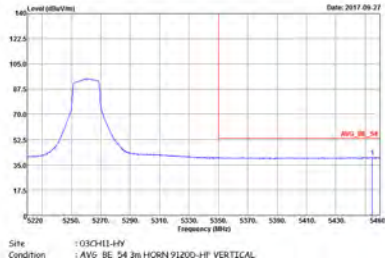
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - L                                                                                                                                   |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |



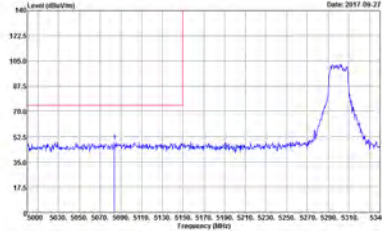
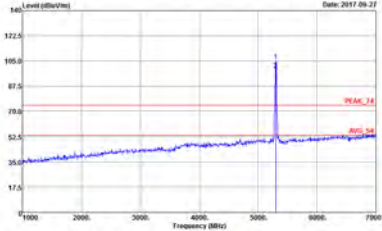
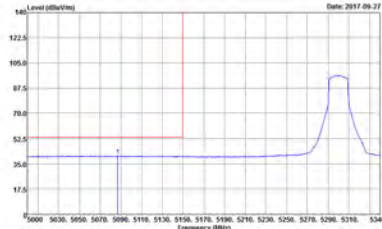
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - R                                                     |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |



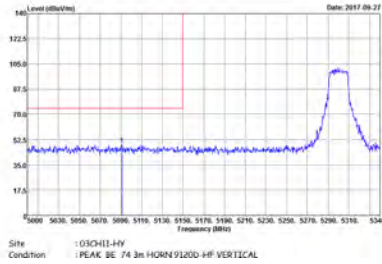
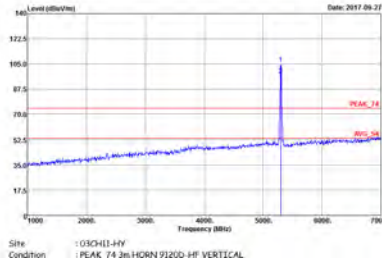
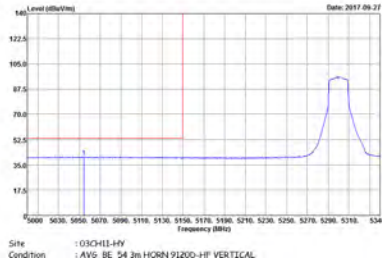
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                               |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - R                                                                                                                                  |             |
| 1    | Vertical                                                                                                                                                         | Fundamental |
| Peak |  <p>Site : 103CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 103CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |



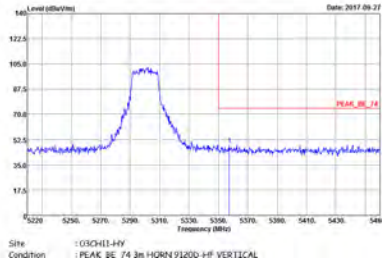
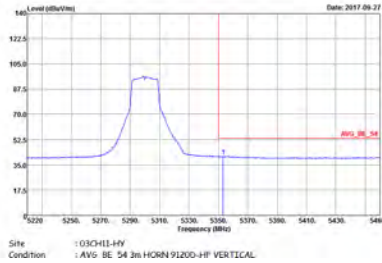
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - L                                                                                                                                    |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

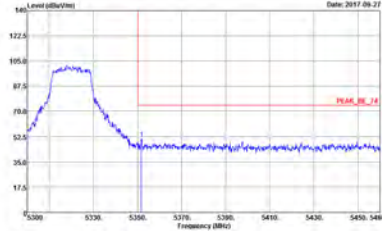
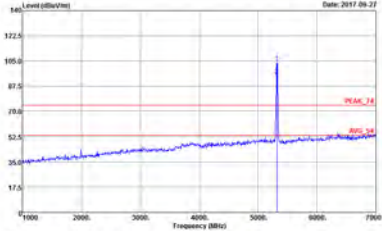
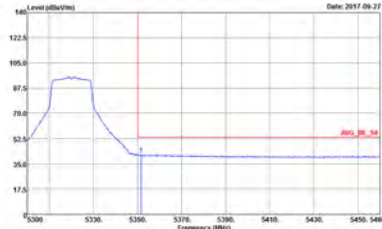


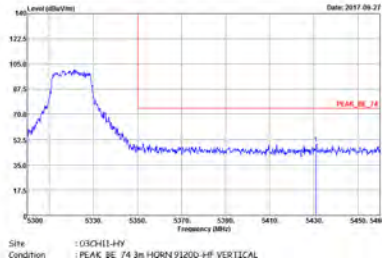
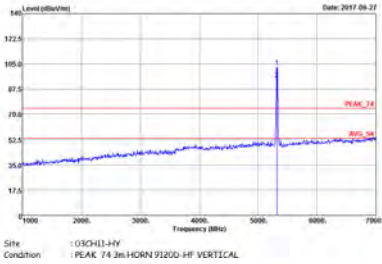
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - R    |             |
| 1    | Horizontal                         | Fundamental |
| Peak |                                    | Left blank  |
| Avg. |                                    | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |



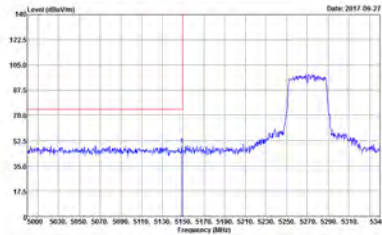
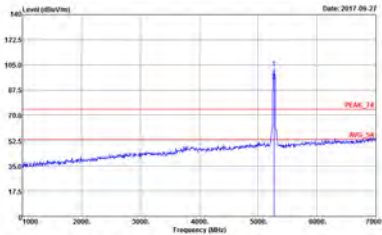
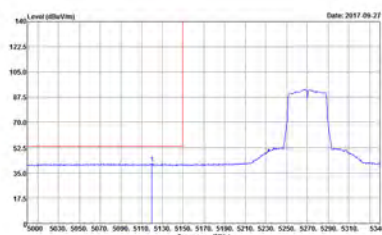
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - R                                                     |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

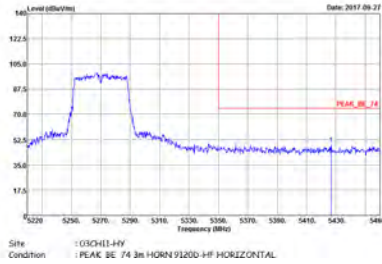
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH64 5320MHz                                                                                                                                        |                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4F<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4F<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                      |

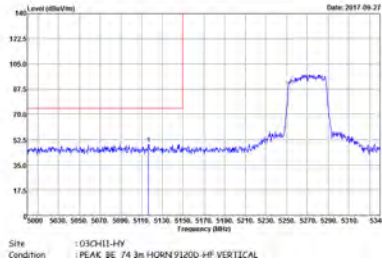
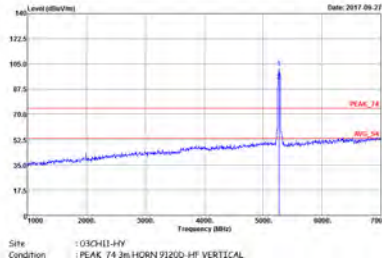
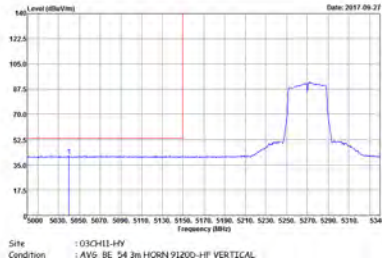
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH64 5320MHz                                                         |                                                                                    |
| 1    | Vertical                                                                            | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |



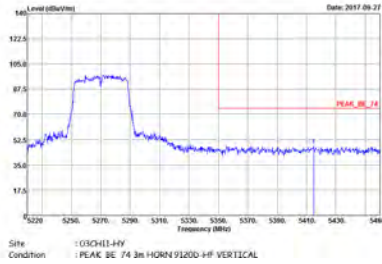
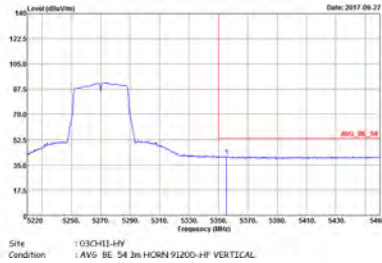
Band 2 5250~5350MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH54 5270 MHz - L                                                                                                                                  |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                        | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |

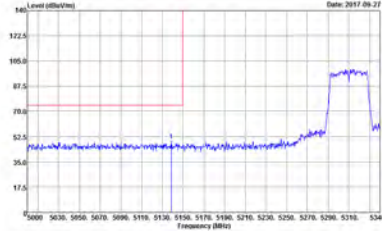
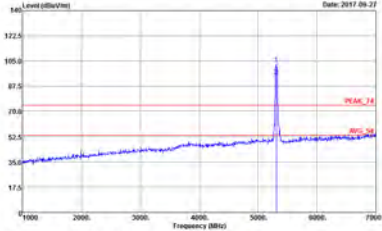
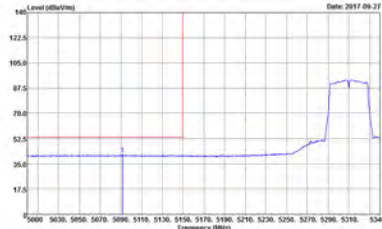
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                    |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH54 5270 MHz - R                                                                                                                                      |             |
| 1    | Horizontal                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 103CH11-4FV<br/>Condition : : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 103CH11-4FV<br/>Condition : : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH54 5270 MHz - L                                                                                                                                |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |

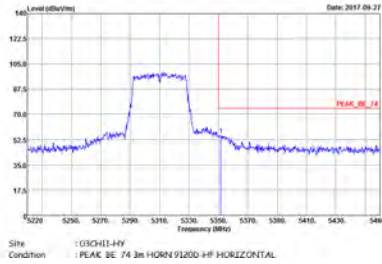
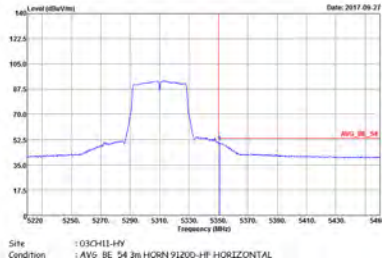


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH54 5270 MHz - R                                                    |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                  |                                                                                                                                                                  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH62 5310 MHz - L                                                                                                                                    |                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                          | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-1HY<br/>Condition : PEAK BE 74 3m HORN 91200 -HF HORIZONTAL</p>  |  <p>Site : 03CH11-1HY<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-1HY<br/>Condition : AVG BE 54 3m HORN 91200 -HF HORIZONTAL</p> | Left blank                                                                                                                                                       |

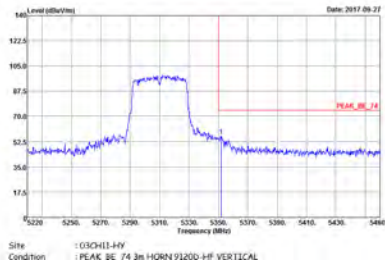
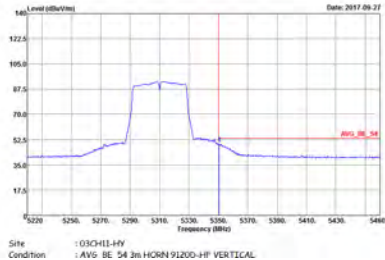


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH62 5310 MHz - R                                                    |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

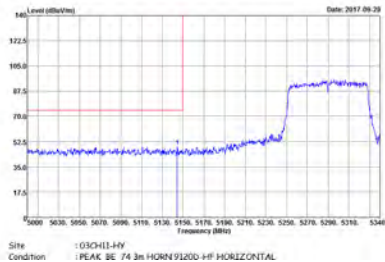
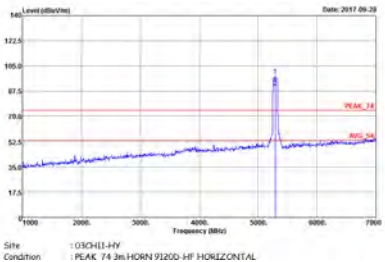
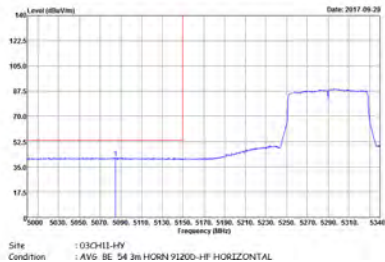


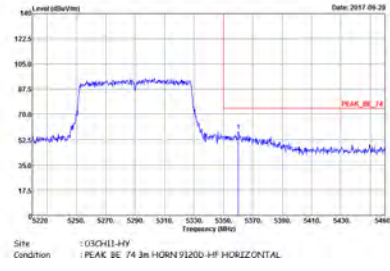
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                           |                                                                           |
|------|------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH62 5310 MHz - L                                             |                                                                           |
| 1    | Vertical                                                                     | Fundamental                                                               |
| Peak | <p>Site : 03CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p> | <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. | <p>Site : 03CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p>  | Left blank                                                                |



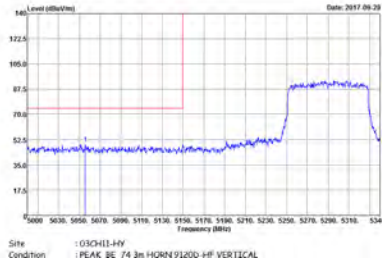
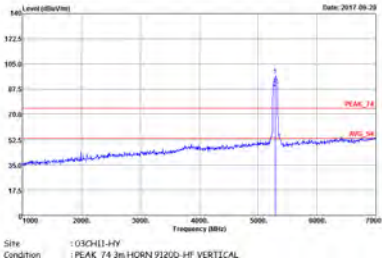
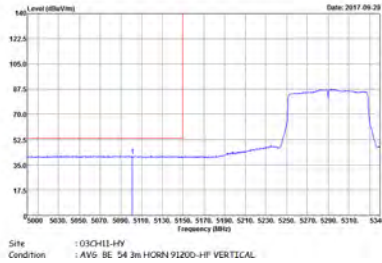
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH62 5310 MHz - R                                                    |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

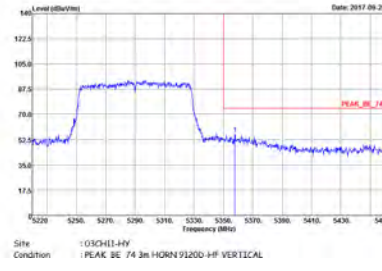
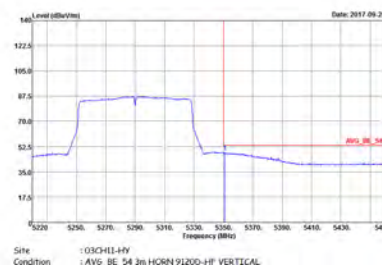
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                    |                                                                                                                                                                 |
| 1           | Horizontal                                                                                                                                                         | Fundamental                                                                                                                                                     |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BE 74 3m HORN 91200-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                               |

| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                 |             |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                                    |             |
| 1           | Horizontal                                                                                                                                                         | Fundamental |
| <b>Peak</b> |  <p>Site : 103CH11-4F<br/>Condition : PEAK BE 74 3m HORN 91200-HF HORIZONTAL</p>  | Left blank  |
| <b>Avg.</b> |  <p>Site : 103CH11-4F<br/>Condition : AVG BE 54 3m HORN 91200-HF HORIZONTAL</p> | Left blank  |

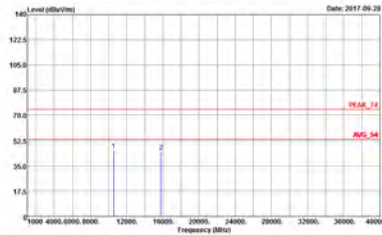
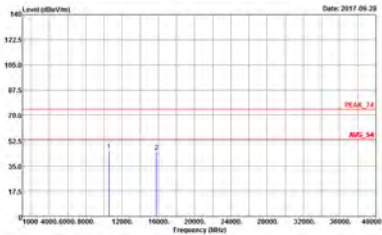


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                 |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                   |

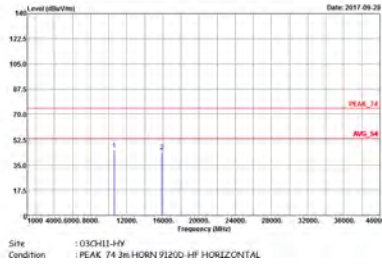
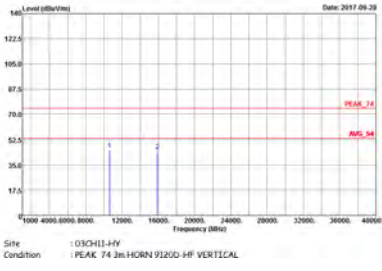


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                               |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                                  |             |
| 1    | Vertical                                                                                                                                                         | Fundamental |
| Peak |  <p>Site : 103CH11-HY<br/>Condition : PEAK BE 74 3m HORN 91200-HF VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 103CH11-HY<br/>Condition : AVG BE 54 3m HORN 91200-HF VERTICAL</p> | Left blank  |

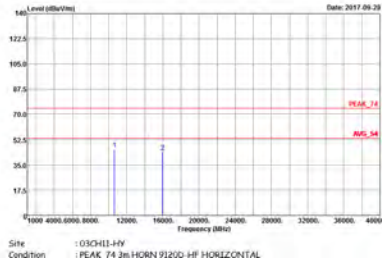
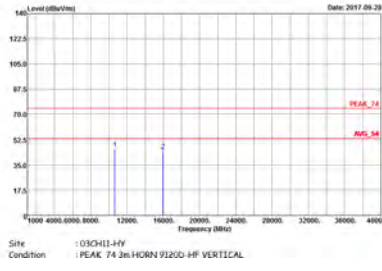
**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH52 5260MHz                                                                                                                                           |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4F<br/> Condition : PEAK 74 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CH11-4F<br/> Condition : PEAK 74 3m HORN 9120D-HF VERTICAL</p> |



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH60 5300MHz                                                                                                                                           |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -HF HORIZONTAL</p> |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -HF VERTICAL</p> |



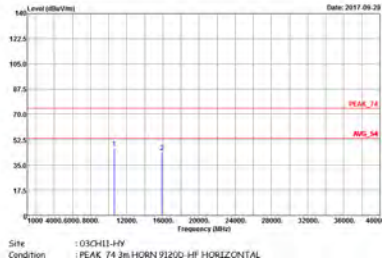
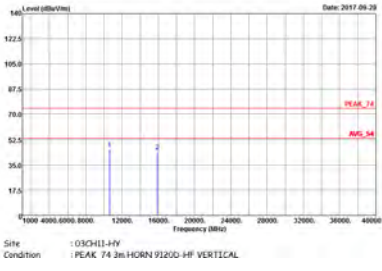
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH64 5320MHz                                                                                                                                           |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf HORIZONTAL</p> |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf VERTICAL</p> |



Band 2 5250~5350MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m |          |
|--------------|-----------------------------------|----------|
| ANT          | 802.11ac VHT20 CH52 5260MHz       |          |
| 1            | Horizontal                        | Vertical |
| Peak<br>Avg. |                                   |          |



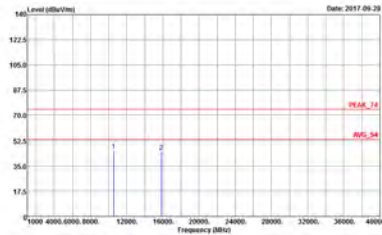
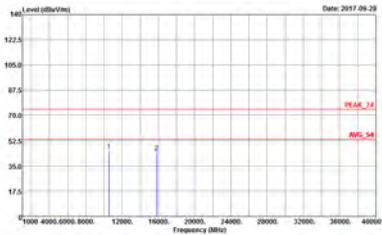
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH60 5300MHz                                                                                                                                    |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf HORIZONTAL</p> |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf VERTICAL</p> |



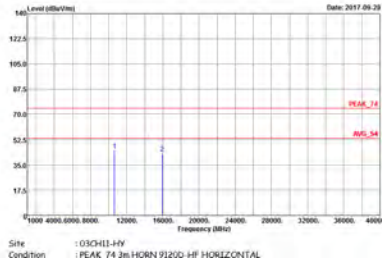
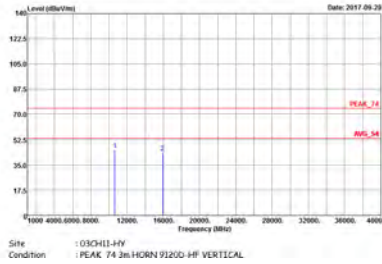
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                            |                                                                            |
|--------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH64 5320MHz                                                  |                                                                            |
| 1            | Horizontal                                                                   | Vertical                                                                   |
| Peak<br>Avg. | <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf HORIZONTAL</p> | <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf VERTICAL</p> |



Band 2 5250~5350MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

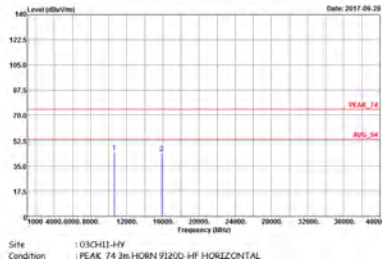
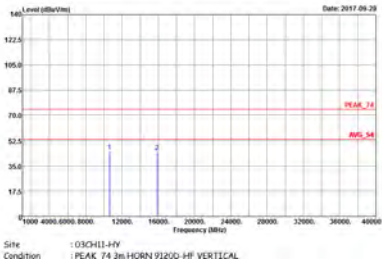
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                             |                                                                                                                                                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH54 5270                                                                                                                                      |                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                    | Vertical                                                                                                                                                     |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK 74 3m HORN 91200-HF VERTICAL</p> |



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                              |                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH62 5310                                                                                                                                       |                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                     | Vertical                                                                                                                                                      |
| Peak<br>Avg. |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf HORIZONTAL</p> |  <p>Site : 03CH11-4F<br/>Condition : PEAK 74 3m HORN 91200 -Hf VERTICAL</p> |

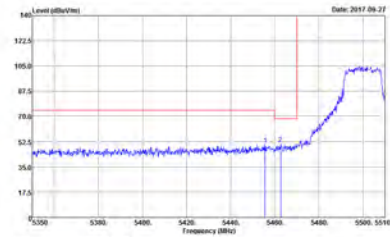
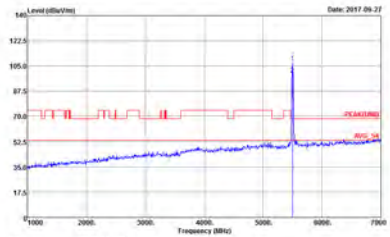
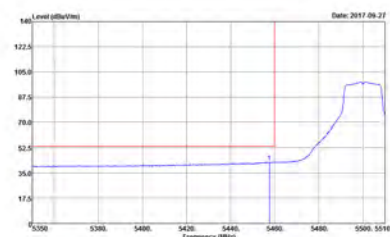


Band 2 5250~5350MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

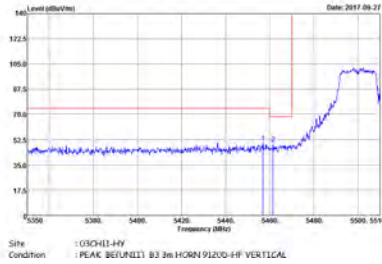
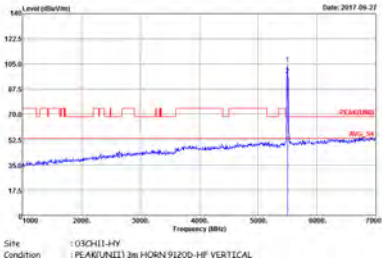
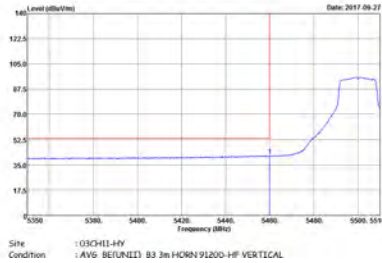
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                           |                                                                                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH58 5290MHz                                                                                                                                 |                                                                                                                                                            |
| 1            | Horizontal                                                                                                                                                  | Vertical                                                                                                                                                   |
| Peak<br>Avg. |  <p>Site: 03CH11-HY<br/>Condition: PEAK 74 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site: 03CH11-HY<br/>Condition: PEAK 74 3m HORN 91200-HF VERTICAL</p> |



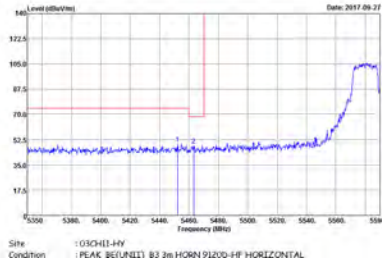
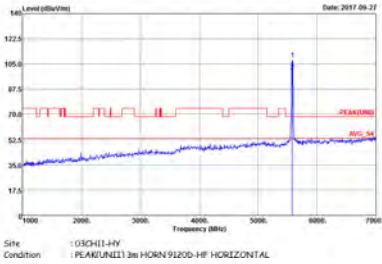
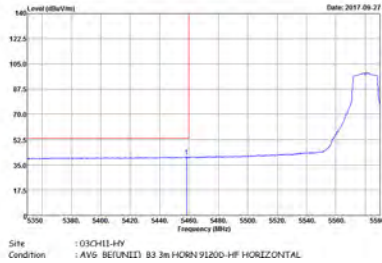
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                       |                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                    |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                               | Fundamental                                                                                                                                                        |
| Peak |  <p>Site: 103CH11-4F<br/>Condition: : PEAK BEFUNE11 83 3m HORN 9120D-HF HORIZONTAL</p>  |  <p>Site: 103CH11-4F<br/>Condition: : PEAK/UNE11 3m HORN 9120D-HF HORIZONTAL</p> |
| Avg. |  <p>Site: 103CH11-4F<br/>Condition: : AVG BEFUNE11 83 3m HORN 9120D-HF HORIZONTAL</p> | Left blank                                                                                                                                                         |

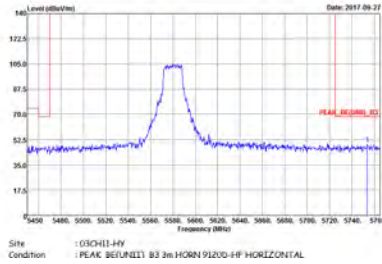


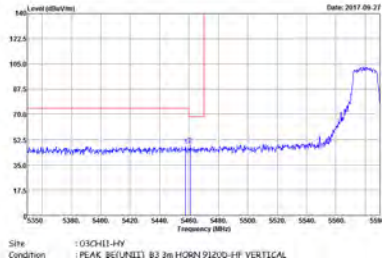
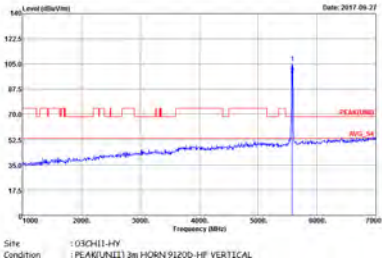
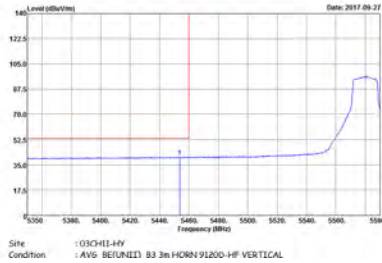
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                     |                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                  |                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                               | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(FUN11) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(FUN11) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(FUN11) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                       |



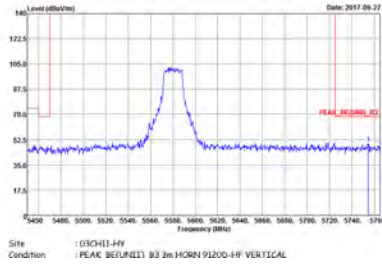
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                               |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |



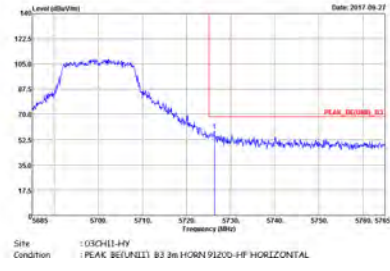
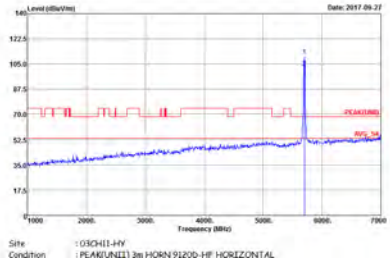
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                         |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                             |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |

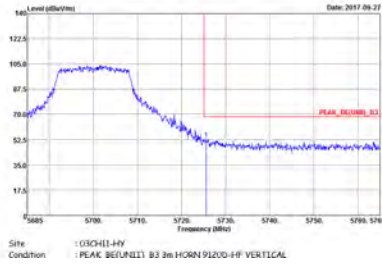
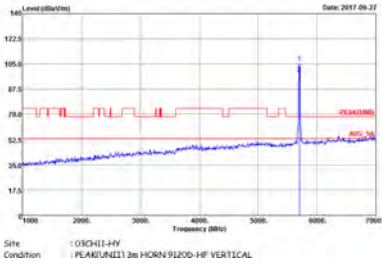


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                    |             |
| 1    | Vertical                                                                                     | Fundamental |
| Peak | <div></div> | Left blank  |



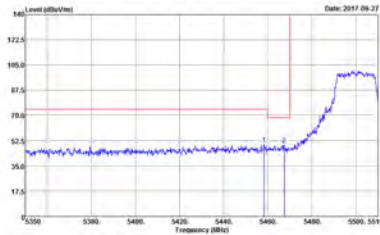
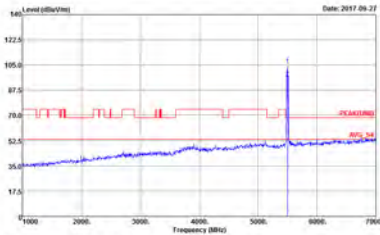
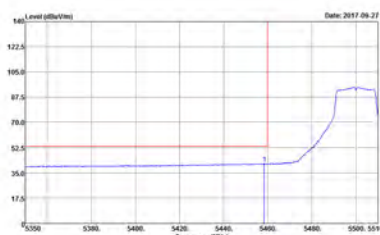
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                   |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                        |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF HORIZONTAL</p> |

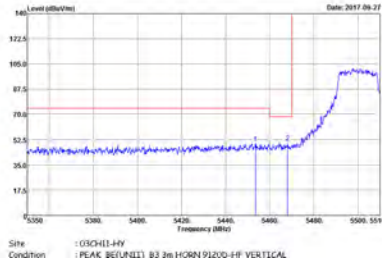
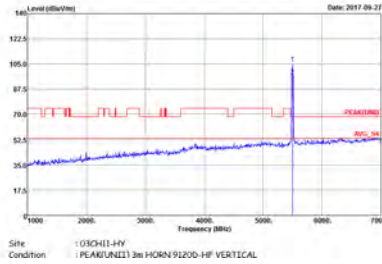
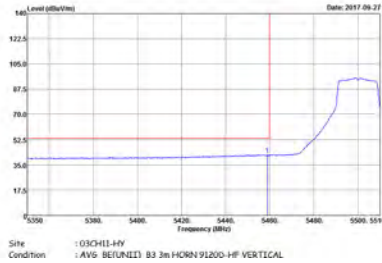


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |                                                                                    |
|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                             |                                                                                    |
| 1    | Vertical                                                                          | Fundamental                                                                        |
| Peak |  |  |

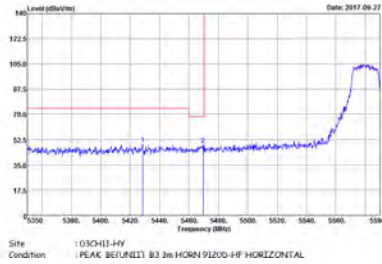
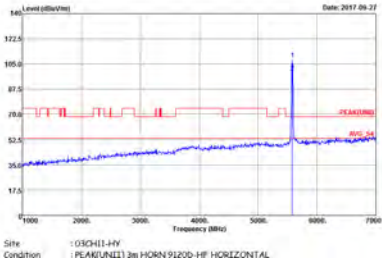
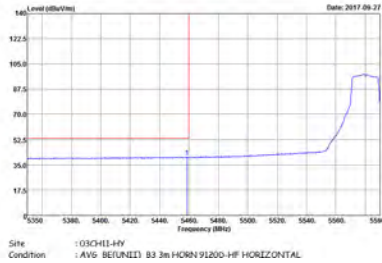


Band 3 5470~5725MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

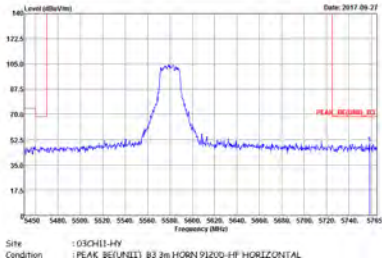
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH100 5500MHz                                                                                                                                            |                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                          |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK BEFUNE11 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                           |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                     |                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH100 5500MHz                                                                                                                                           |                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                               | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UIN11) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                       |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - L                                                                                                                                        |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |

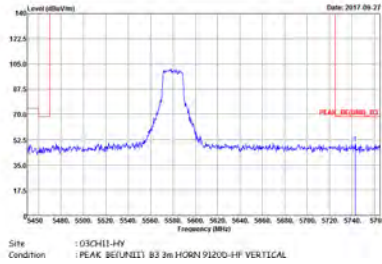


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

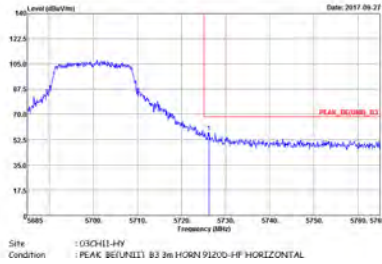
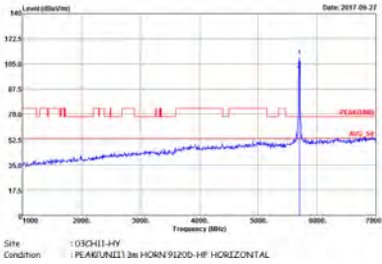


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - L   |             |
| 1    | Vertical                           | Fundamental |
| Peak |                                    |             |
| Avg. |                                    | Left blank  |

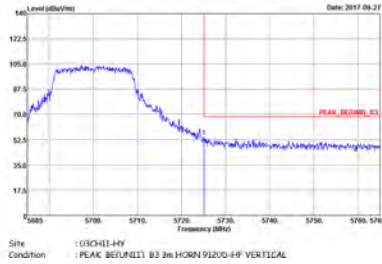
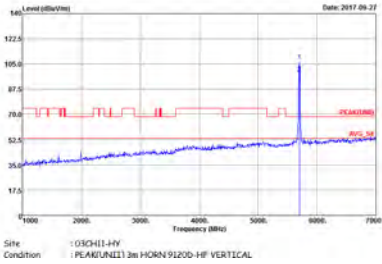


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - R                                                             |             |
| 1    | Vertical                                                                                     | Fundamental |
| Peak | <div></div> | Left blank  |



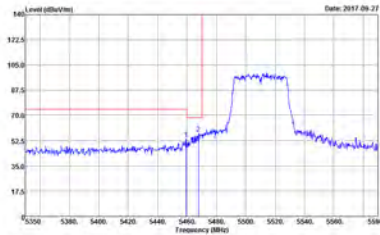
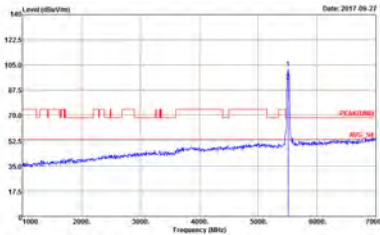
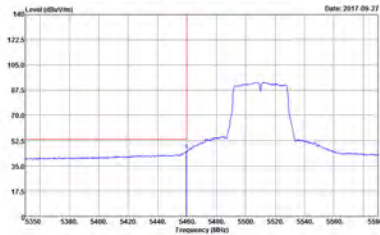
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH140 5700MHz                                                                                                                                            |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                        |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF HORIZONTAL</p> |



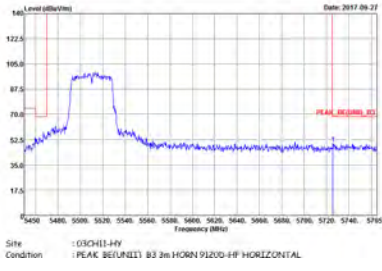
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH140 5700MHz                                                                                                                                          |                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF VERTICAL</p> |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF VERTICAL</p> |

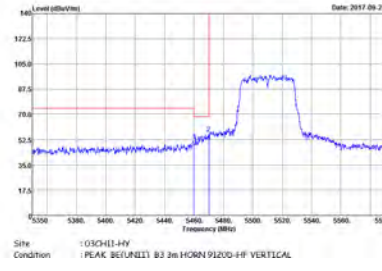
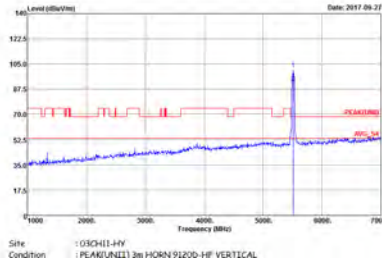
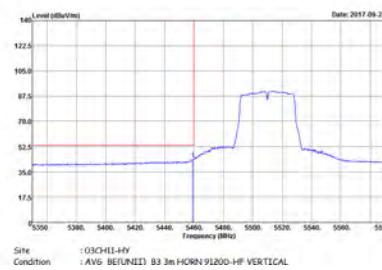


Band 3 5470~5725MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)

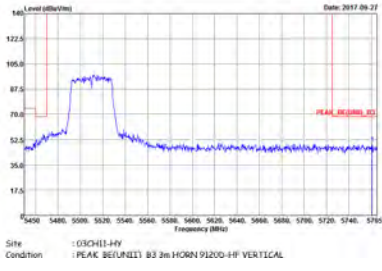
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - L                                                                                                                                        |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                        |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK FUND11 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG BEFUNE11 B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                         |

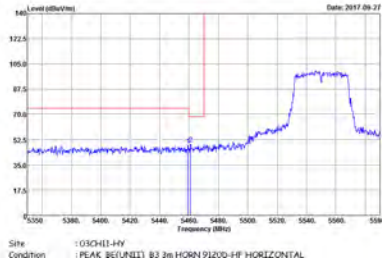
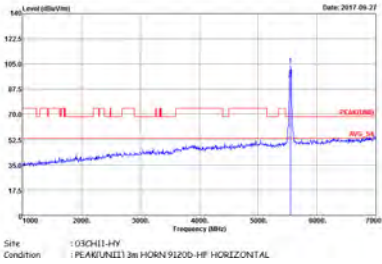
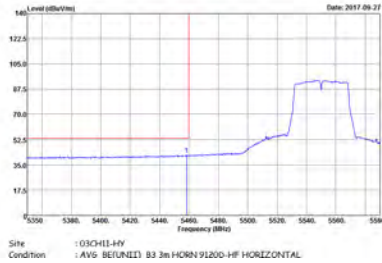


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R                                                             |             |
| 1    | Horizontal                                                                                   | Fundamental |
| Peak | <div></div> | Left blank  |

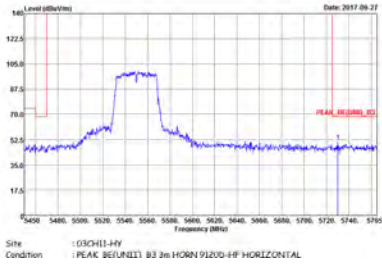
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - L                                                                                                                                      |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |



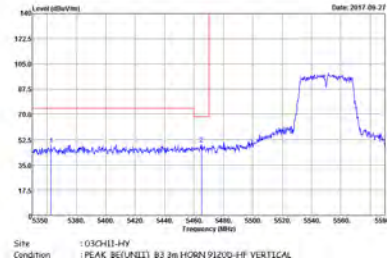
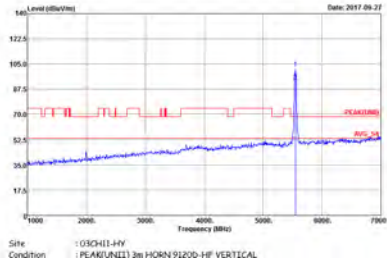
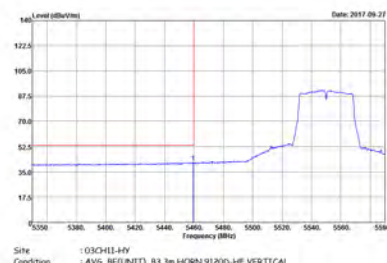
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R                                                             |             |
| 1    | Vertical                                                                                     | Fundamental |
| Peak | <div></div> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                       |                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - L                                                                                                                                         |                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                               | Fundamental                                                                                                                                                        |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(FUN11) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(FUN11) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(FUN11) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                         |

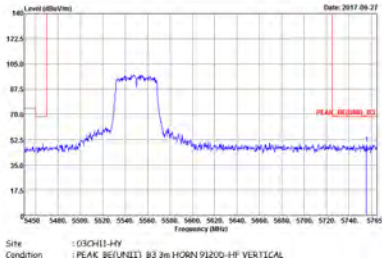


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - R                                                             |             |
| 1    | Horizontal                                                                                   | Fundamental |
| Peak | <div></div> | Left blank  |

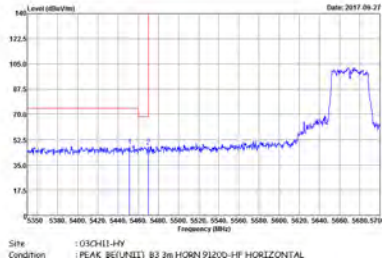
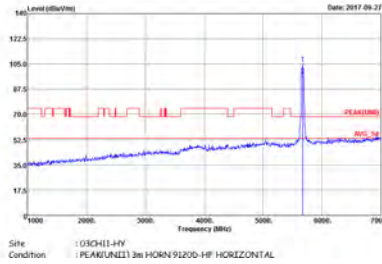
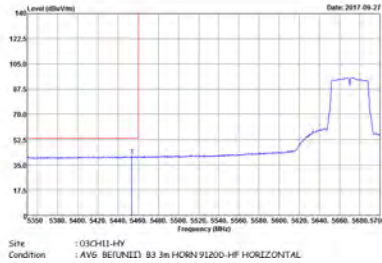


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - L                                                                                                                                      |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(FUN1) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(FUN1) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(FUN1) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |

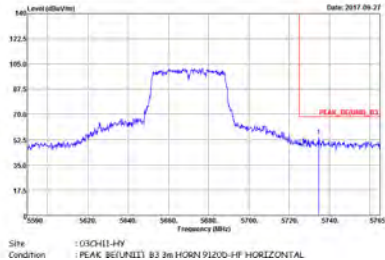


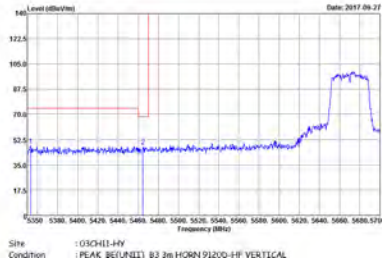
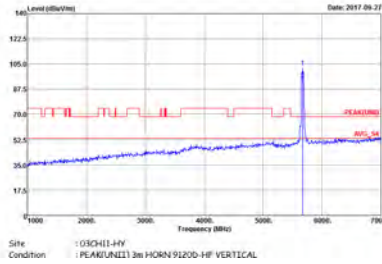
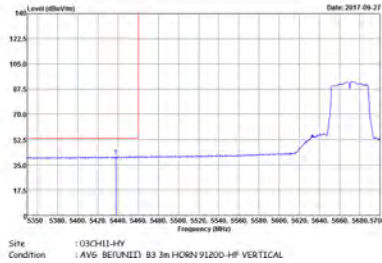
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - R                                                             |             |
| 1    | Vertical                                                                                     | Fundamental |
| Peak | <div></div> | Left blank  |



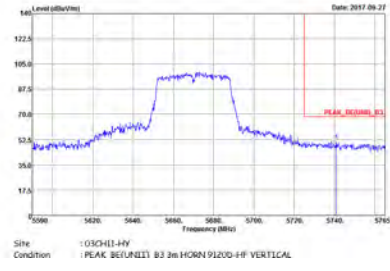
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L                                                    |                                                                                    |
| 1    | Horizontal                                                                          | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |



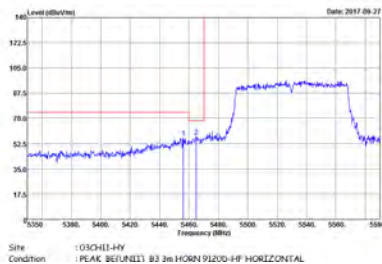
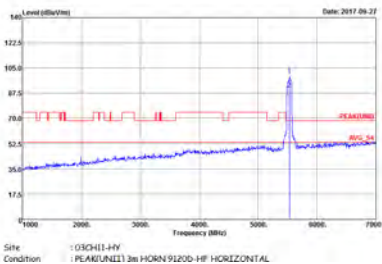
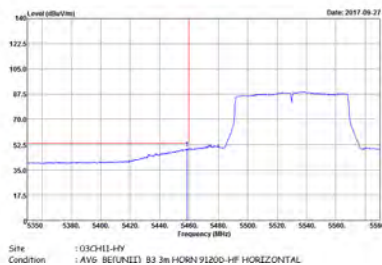
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                 |                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L                                                                                                                                   |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                           | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(FUN)1 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(FUN)1 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(FUN)1 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |

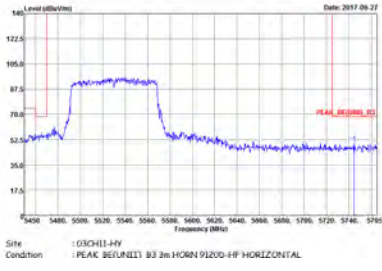


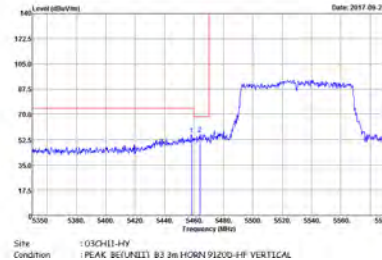
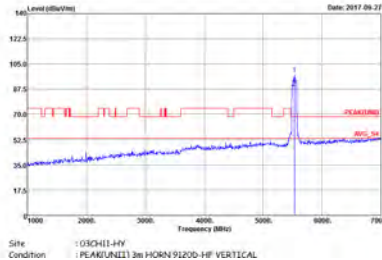
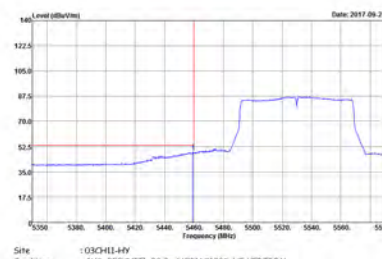
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - R                                                  |             |
| 1    | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

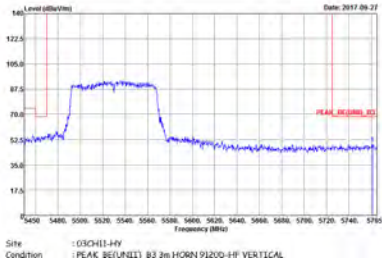
| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                       |                                                                                                                                                                       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                         |                                                                                                                                                                       |
| 1           | Horizontal                                                                                                                                                               | Fundamental                                                                                                                                                           |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK BEFUNE11 83 3m HORN 9120D-HF HORIZONTAL</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK BEFUNE11 3m HORN 9120D-HF HORIZONTAL</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG BEFUNE11 83 3m HORN 9120D-HF HORIZONTAL</p> | <b>Left blank</b>                                                                                                                                                     |

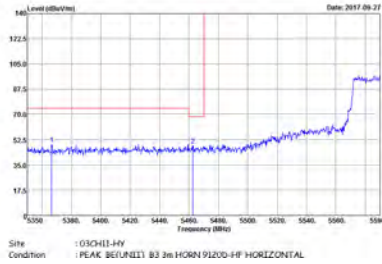
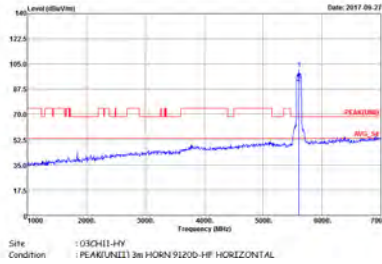
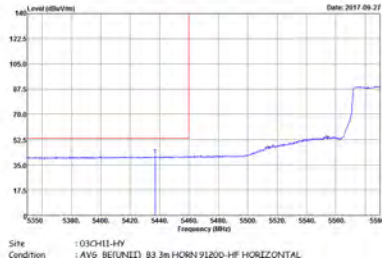


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

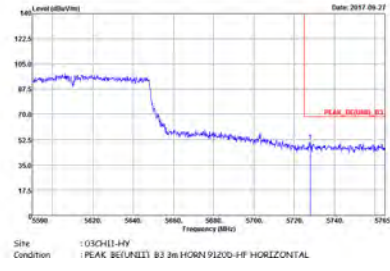
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                     |                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                       |                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                               | Fundamental                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UIN11) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UIN11) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UIN11) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                       |



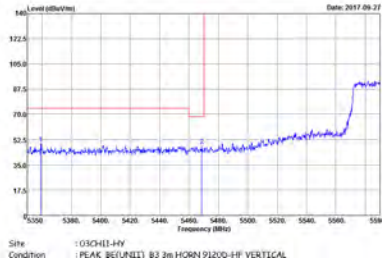
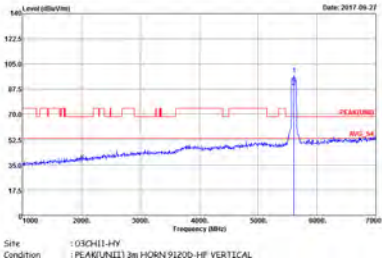
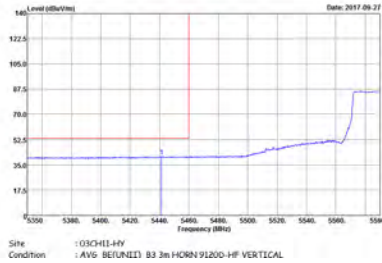
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                           |             |
|------|----------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                             |             |
| 1    | Vertical                                                                                     | Fundamental |
| Peak | <div></div> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                        |                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                              | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF HORIZONTAL</p> | Left blank                                                                                                                                                        |

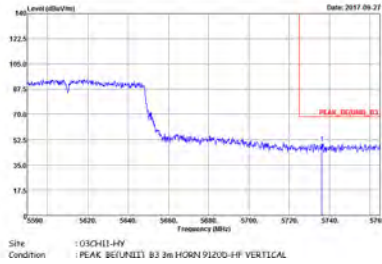


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                  | Fundamental |
| Peak |  <p>Site : 10SCH11-4RY<br/>Condition : 1 PEAK SET(UNIT) B3 3m HORN 91200-4F HORIZONTAL</p> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                    |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                      |                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                              | Fundamental                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-4Y<br/>Condition : PEAK BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p>  |  <p>Site : 03CH11-4Y<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL</p> |
| Avg. |  <p>Site : 03CH11-4Y<br/>Condition : AVG BE(UNIT) B3 3m HORN 91200-HF VERTICAL</p> | Left blank                                                                                                                                                      |



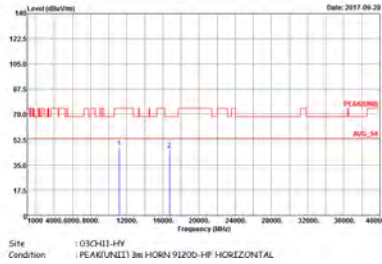
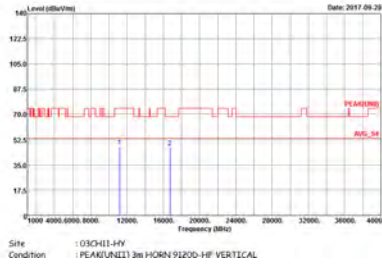
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                  |             |
| 1    | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |



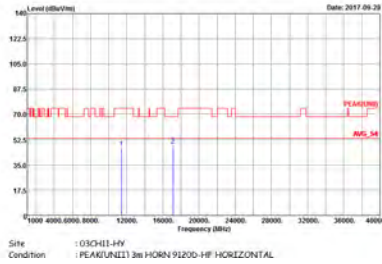
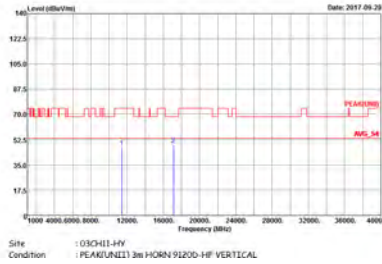
Band 3 - 5470~5725MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m |          |
|--------------|-----------------------------------|----------|
| ANT          | 802.11a CH100 5500MHz             |          |
| 1            | Horizontal                        | Vertical |
| Peak<br>Avg. |                                   |          |



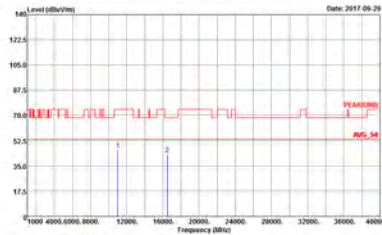
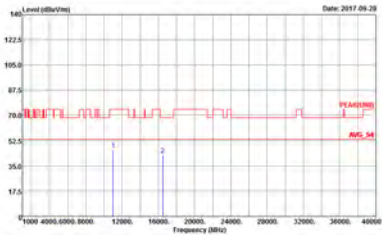
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                             |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



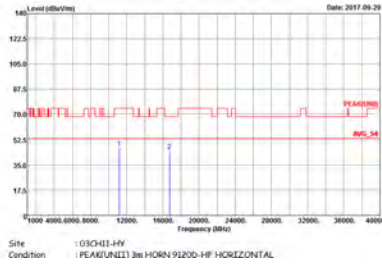
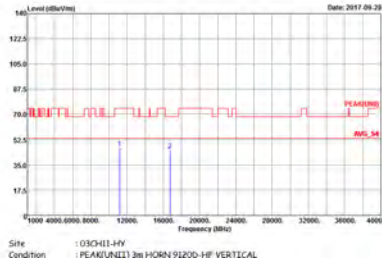
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11a CH140 5700MHz                                                             |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



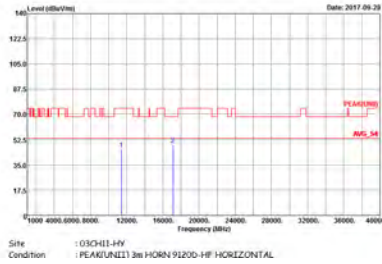
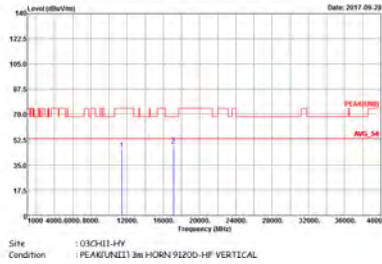
Band 3 5470~5725MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                |                                                                                                                                                                 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH100 5500MHz                                                                                                                                     |                                                                                                                                                                 |
| 1            | Horizontal                                                                                                                                                       | Vertical                                                                                                                                                        |
| Peak<br>Avg. |  <p>Site : 03CH11-HV<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HV<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL</p> |



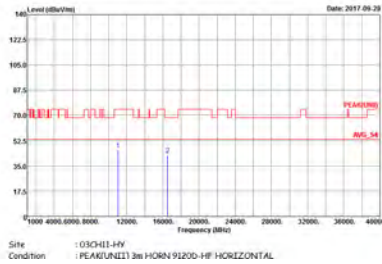
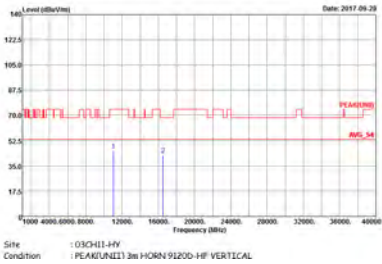
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH116 5580MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



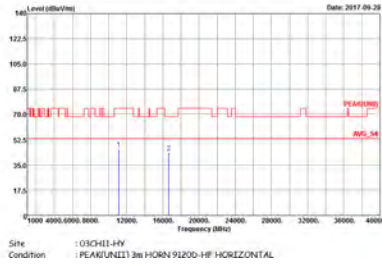
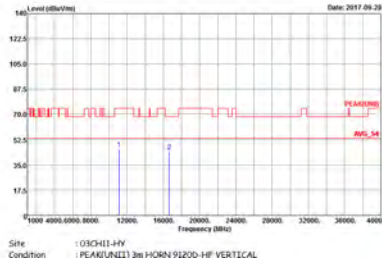
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH140 5700MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



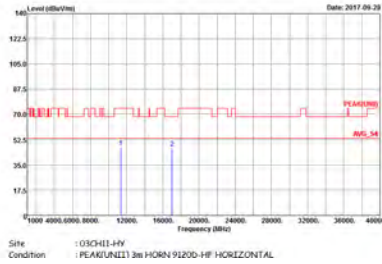
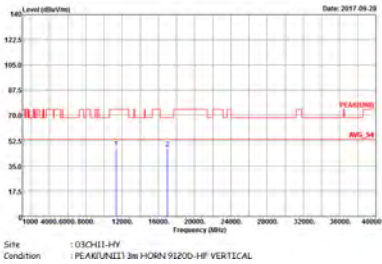
Band 3 5470~5725MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                |                                                                                                                                                                 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH102 5510MHz                                                                                                                                     |                                                                                                                                                                 |
| 1            | Horizontal                                                                                                                                                       | Vertical                                                                                                                                                        |
| Peak<br>Avg. |  <p>Site : 03CH11-HV<br/>Condition : PEAK(UNEI) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HV<br/>Condition : PEAK(UNEI) 3m HORN 91200-HF VERTICAL</p> |



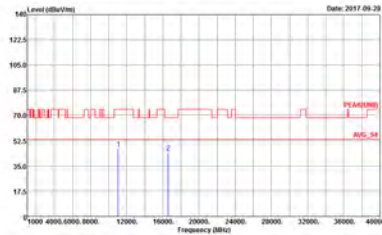
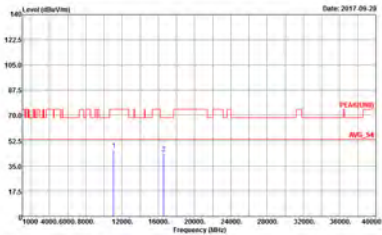
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                 |                                                                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH110 5550MHz                                                                                                                                      |                                                                                                                                                                  |
| 1            | Horizontal                                                                                                                                                        | Vertical                                                                                                                                                         |
| Peak<br>Avg. |  <p>Site : 03CH11-4FV<br/>Condition : PEAK(UN11) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-4FV<br/>Condition : PEAK(UN11) 3m HORN 91200-HF VERTICAL</p> |



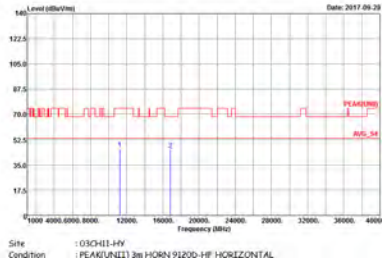
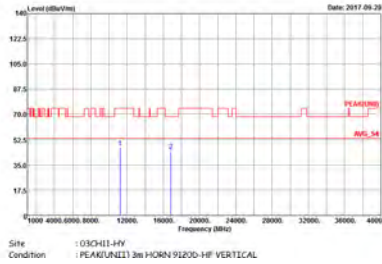
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH134 5670MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



Band 3 5470~5725MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

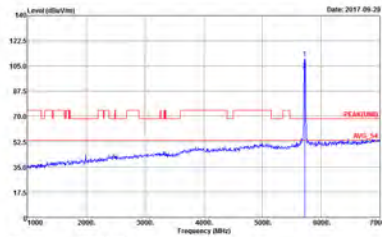
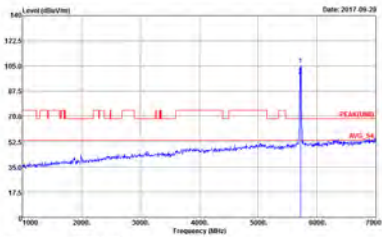
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH106 5530MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HV<br/>Condition : PEAK(AVG) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HV<br/>Condition : PEAK(AVG) 3m HORN 91200-HF VERTICAL</p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH122 5610MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |

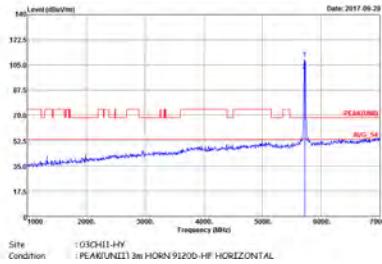
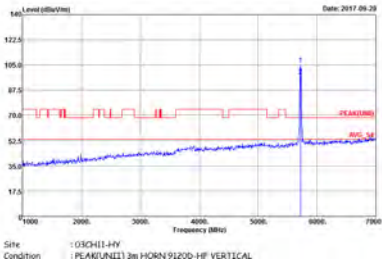


**Band 3 - Straddle Channel**  
**WIFI 802.11a (Fundamental @ 3m)**

| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                           |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site: 10SCH11-14V<br/>Condition: 1 PEAK/UN111 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site: 10SCH11-14V<br/>Condition: 1 PEAK/UN111 3m HORN 9120D-HF VERTICAL</p> |

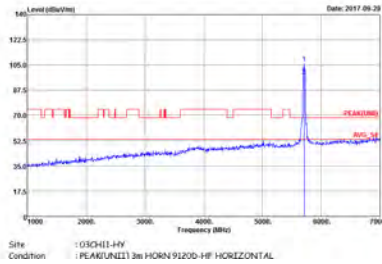
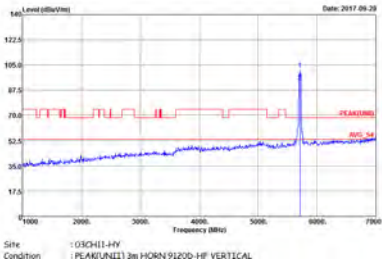


Band 3 – Straddle Channel  
WIFI 802.11ac VHT20 (Fundamental @ 3m)

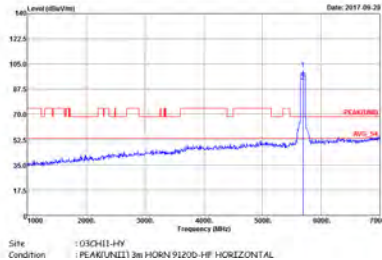
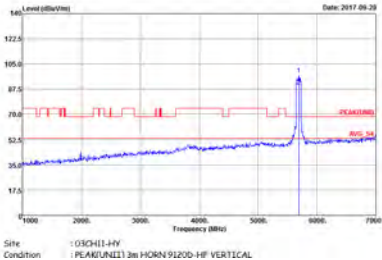
| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                        |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH144 5720MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 9120D-HF VERTICAL</p> |



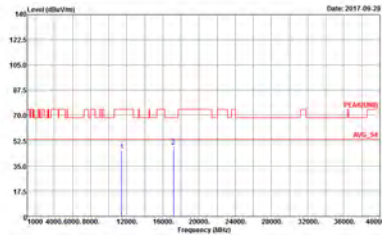
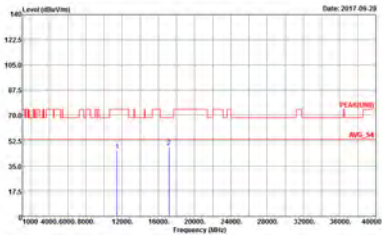
Band 3 – Straddle Channel  
WIFI 802.11ac VHT40 (Fundamental @ 3m)

| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                          |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH142 5710MHz                                                      |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |

**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT80 (Fundamental @ 3m)**

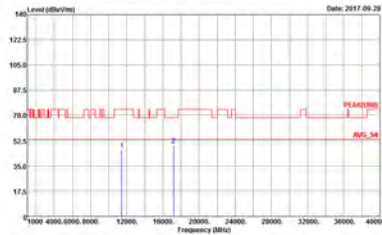
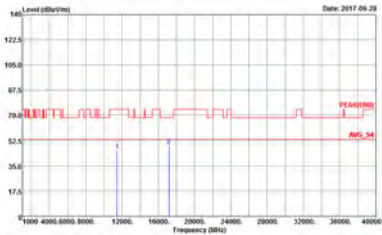
| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                          |                                                                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH138 5690MHz                                                                                                                                      |                                                                                                                                                                  |
| 1            | Horizontal                                                                                                                                                        | Vertical                                                                                                                                                         |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/> Condition : 1 PEAK(UM) 3m HORN 9120D-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/> Condition : 1 PEAK(UM) 3m HORN 9120D-HF VERTICAL</p> |

**Band 3 - Straddle Channel**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                            |                                                                                                                                                                 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                            |                                                                                                                                                                 |
| 1            | Horizontal                                                                                                                                                       | Vertical                                                                                                                                                        |
| Peak<br>Avg. |  <p>Site : 03CH11-4V<br/> Condition : PEAK/UNII 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-4V<br/> Condition : PEAK/UNII 3m HORN 91200-HF VERTICAL</p> |

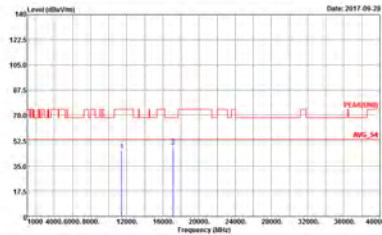
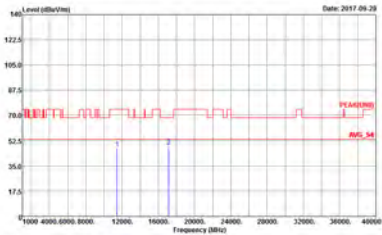


Band 3 – Straddle Channel  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                           |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH144 5720MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF VERTICAL</p> |

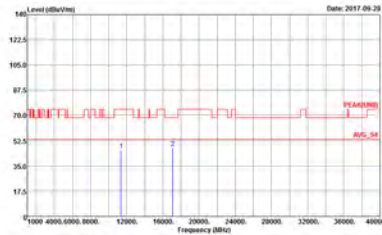
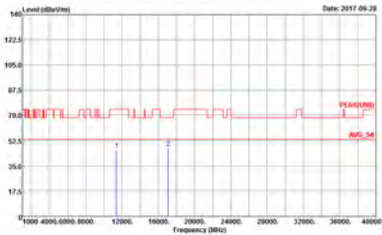


Band 3 – Straddle Channel  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

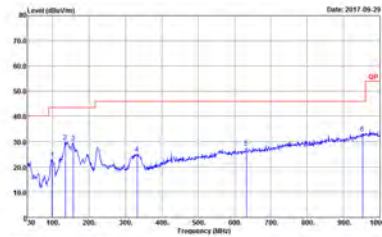
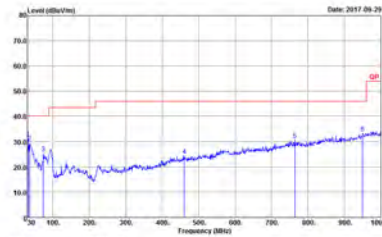
| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                           |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH142 5710MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF VERTICAL</p> |



Band 3 – Straddle Channel  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                           |                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH138 5690MHz                                                                                                                                    |                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF HORIZONTAL</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(AVG) 3m HORN 91200-HF VERTICAL</p> |

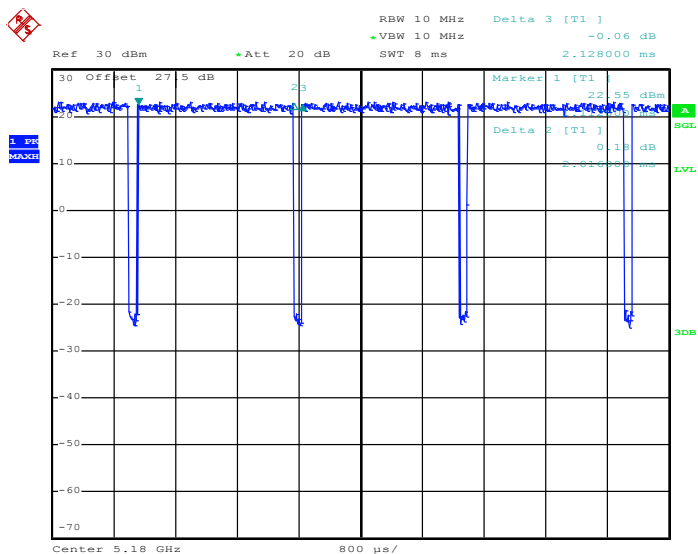
**Emission below 1GHz**  
**5GHz WIFI 802.11ac VHT40 (LF)**

| WIFI                 | 5GHz WIFI                                                                                                                                                        |                                                                                                                                                                 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | 802.11ac VHT40 LF                                                                                                                                                |                                                                                                                                                                 |
| 1                    | Horizontal                                                                                                                                                       | Vertical                                                                                                                                                        |
| <b>QP /<br/>Peak</b> |  <p>Site : 03CH11-44Y<br/> Condition : QP 3m BE LOG 6111D-LF ETC HORIZONTAL</p> |  <p>Site : 03CH11-44Y<br/> Condition : QP 3m BE LOG 6111D-LF ETC VERTICAL</p> |
|                      |                                                                                                                                                                  |                                                                                                                                                                 |

## Appendix E. Duty Cycle Plots

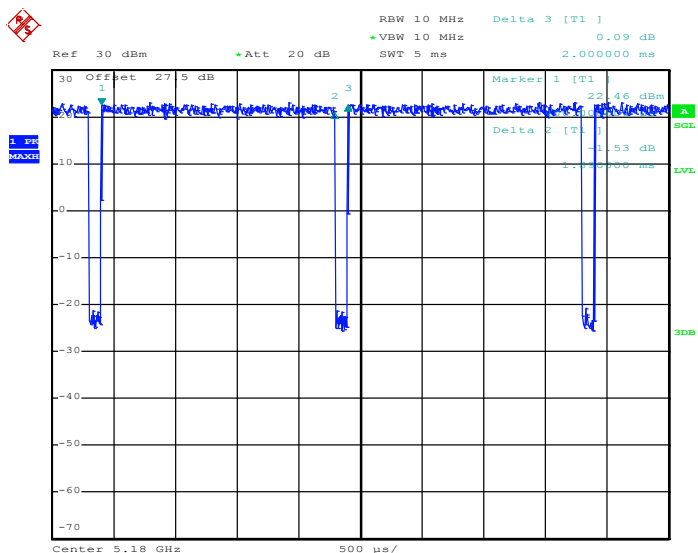
| Band                | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting | Duty Factor(dB) |
|---------------------|---------------|-------|----------|-------------|-----------------|
| 802.11a             | 94.74         | 2016  | 0.50     | 1kHz        | 0.23            |
| 5GHz 802.11n HT20   | 94.50         | 1890  | 0.53     | 1kHz        | 0.25            |
| 5GHz 802.11n HT40   | 91.12         | 924   | 1.08     | 3kHz        | 0.40            |
| 5GHz 802.11ac VHT20 | 95.03         | 1910  | 0.52     | 1kHz        | 0.22            |
| 5GHz 802.11ac VHT40 | 89.31         | 927   | 1.08     | 3kHz        | 0.49            |
| 5GHz 802.11ac VHT80 | 89.87         | 852   | 1.17     | 3kHz        | 0.46            |

## 802.11a

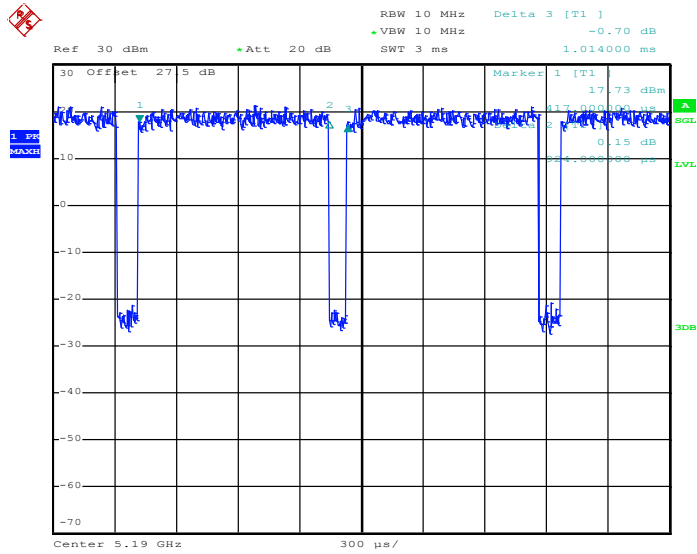


Date: 25.SEP.2017 16:56:42

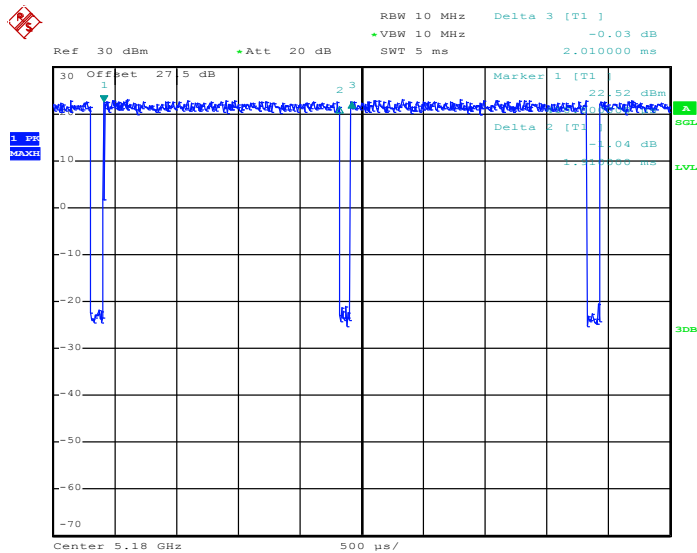
## 802.11n HT20



Date: 25.SEP.2017 16:57:36

**802.11n HT40**


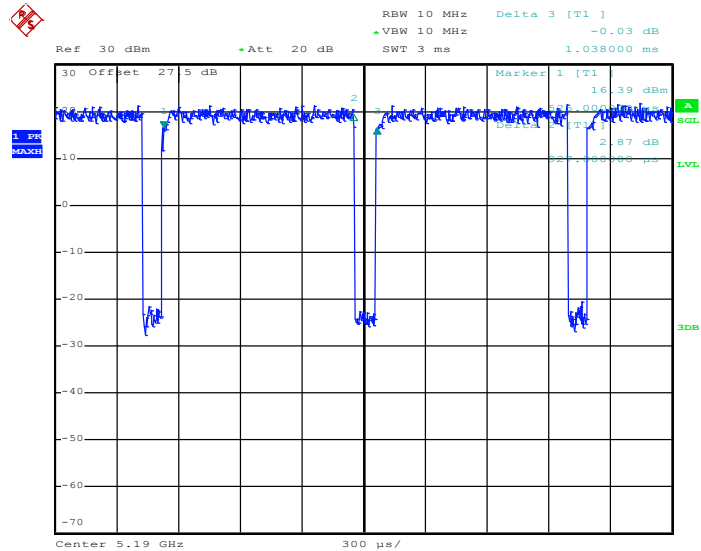
Date: 25.SEP.2017 17:01:59

**802.11ac VHT20**


Date: 25.SEP.2017 17:02:50

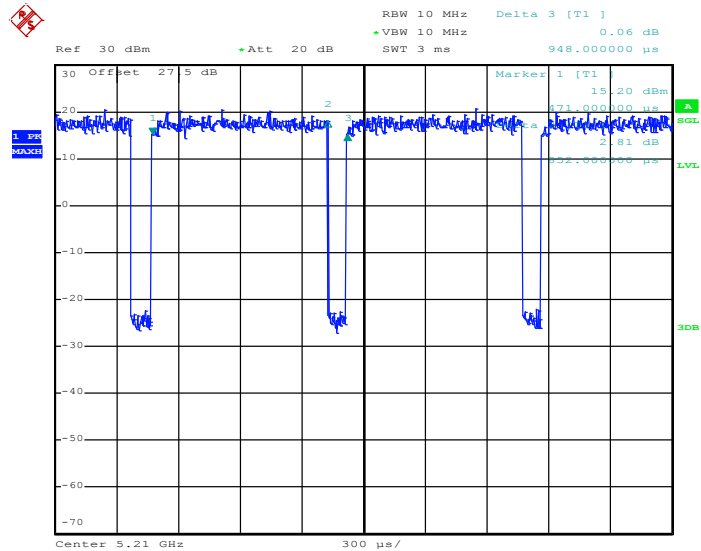


802.11ac VHT40



Date: 25.SEP.2017 17:03:37

802.11ac VHT80



Date: 25.SEP.2017 17:06:32