

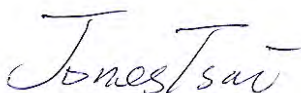
# FCC RADIO TEST REPORT

FCC ID : 2AG0Z-CM5X  
Equipment : Media Receiver  
Brand Name : facebook  
Model Name : LW94NS  
Applicant : Facebook Technologies LLC  
1 Hacker Way Menlo Park CA 94025  
Standard : FCC Part 15 Subpart E §15.407

The product was received on Apr. 08, 2019 and testing was started from Apr. 08, 2019 and completed on Jun. 14, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Jones Tsai

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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## History of this test report

| Report No.   | Version | Description                                                                                                          | Issued Date   |
|--------------|---------|----------------------------------------------------------------------------------------------------------------------|---------------|
| FR932216-01D | 01      | Initial issue of report                                                                                              | Jul. 04, 2019 |
| FR932216-01D | 02      | 1. Adding description of worst case in section 2<br>2. Revising the Connection Diagram of Test System in section 2.3 | Jul. 21, 2019 |
| FR932216-01D | 03      | Revising brand name                                                                                                  | Jul. 31, 2019 |
|              |         |                                                                                                                      |               |
|              |         |                                                                                                                      |               |
|              |         |                                                                                                                      |               |
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|              |         |                                                                                                                      |               |
|              |         |                                                                                                                      |               |
|              |         |                                                                                                                      |               |
|              |         |                                                                                                                      |               |
|              |         |                                                                                                                      |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause     | Test Items                             | Result (PASS/FAIL) | Remark                                    |
|---------------|---------------------|----------------------------------------|--------------------|-------------------------------------------|
| 3.1           | 15.403(i)           | 26dB Bandwidth                         | Pass               | -                                         |
| 3.1           | 2.1049              | 99% Occupied Bandwidth                 | Reporting only     | -                                         |
| 3.2           | 15.407(a)           | Maximum Conducted Output Power         | Pass               | -                                         |
| 3.3           | 15.407(a)           | Power Spectral Density                 | Pass               | -                                         |
| 3.4           | 15.407(b)           | Unwanted Emissions                     | Pass               | Under limit<br>1.28 dB at<br>5352.240 MHz |
| 3.5           | 15.207              | AC Conducted Emission                  | Pass               | Under limit<br>11.08 dB at<br>0.686 MHz   |
| 3.6           | 15.407(c)           | Automatically Discontinue Transmission | Pass               | -                                         |
| 3.7           | 15.203<br>15.407(a) | Antenna Requirement                    | Pass               | -                                         |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang**

**Report Producer: Yimin Ho**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n and Wi-Fi 5GHz 802.11a/n/ac

| Product Specification subjective to this standard |                                               |
|---------------------------------------------------|-----------------------------------------------|
| Antenna Type                                      | WLAN: PIFA Antenna<br>Bluetooth: PIFA Antenna |

## 1.2 Modification of EUT

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

## 1.3 Testing Location

|                    |                                                                                                                       |         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|---------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                   |         |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |         |
| Test Site No.      | Sporton Site No.                                                                                                      |         |
|                    | TH05-HY                                                                                                               | CO05-HY |

|                    |                                                                                                                                           |  |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                                       |  |
| Test Site Location | 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 |  |
| Test Site No.      | Sporton Site No.                                                                                                                          |  |
|                    | 03CH13-HY                                                                                                                                 |  |

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

FCC designation No.: TW1190 and TW0007



## **1.4 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 v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ 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 two setup, without all accessories, with all accessories. The worst cases (without all accessories) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and 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 modes are considering the modulation and worse data rates as below table.

**MIMO Mode**

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

| Test Cases                                                                     |                                                                     |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------|
| AC<br>Conducted<br>Emission                                                    | Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Adapter + MPEG4 + HDMI |
| <b>Remark:</b> For Radiated Test Cases, the tests were performed with 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                     |

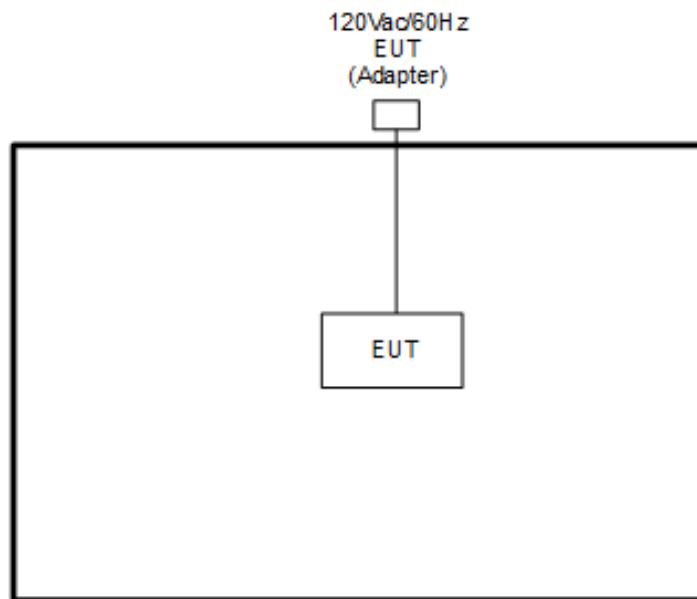
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11n HT20           | 802.11n HT20            | 802.11n HT20            |
| L        | 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 |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11n HT40           | 802.11n HT40            | 802.11n HT40            |
| L        | Low    | 38                     | 54                      | 102                     |
| M        | Middle | -                      | -                       | 110                     |
| H        | High   | 46                     | 62                      | 134                     |
| Straddle |        | -                      | -                       | 142                     |

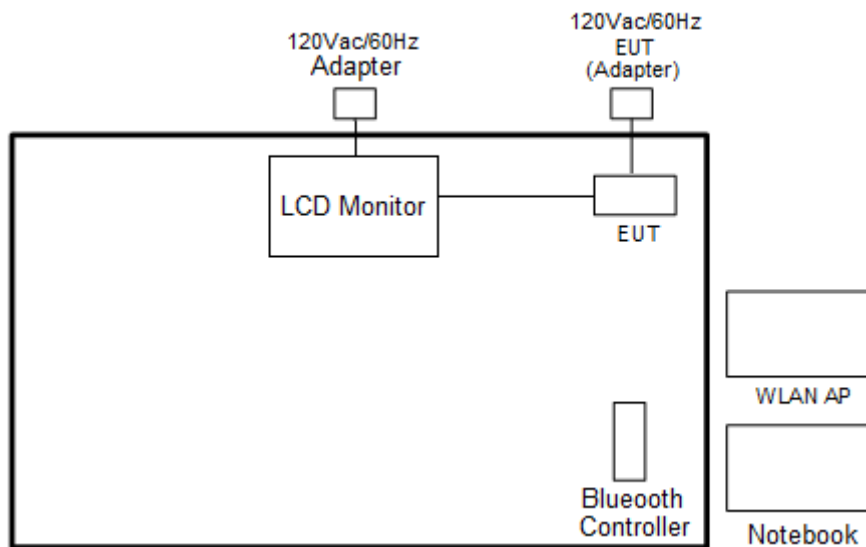
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80          |
| L        | Low    | -                      | -                       | 106                     |
| M        | Middle | 42                     | 58                      | 122                     |
| 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.   | WLAN AP     | ASUS       | RT-AC66U       | MSQ-RTAC66U | N/A            | Unshielded, 1.8m                                           |
| 2.   | Notebook    | DELL       | Latitude E6320 | FCC DoC     | N/A            | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 3.   | LCD Monitor | DELL       | P2715Qt        | FCC DoC     | Shielded, 1.6m | Unshielded, 1.8m                                           |

## 2.5 EUT Operation Test Setup

The RF test items, utility "QRCT v3.0-00271" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 7.8 dB and 20dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 7.8 + 20 = 27.8 \text{ (dB)}\end{aligned}$$

### 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 v02r01, 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.

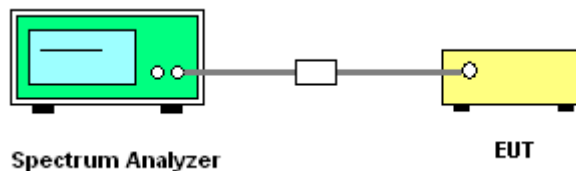
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

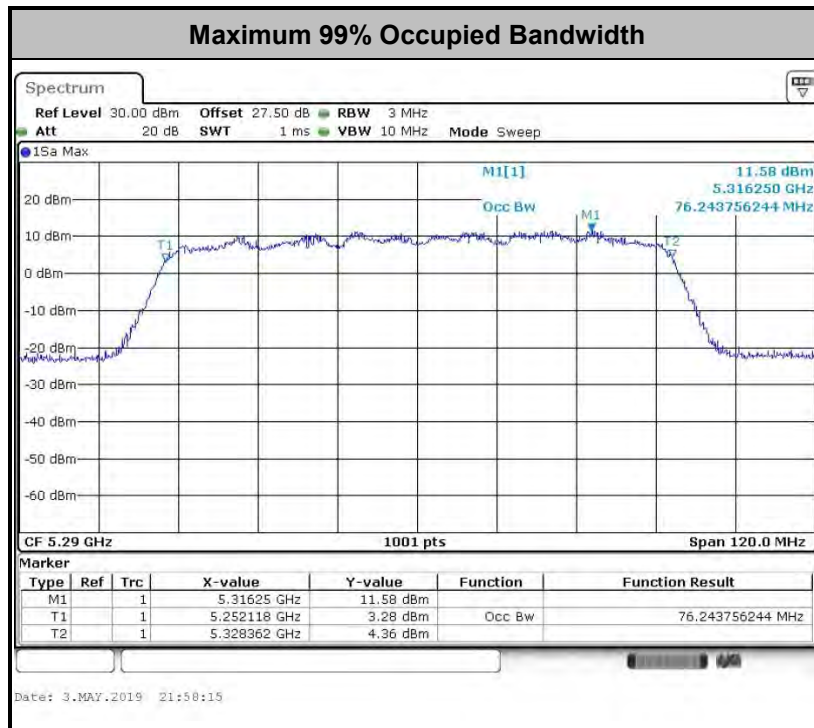
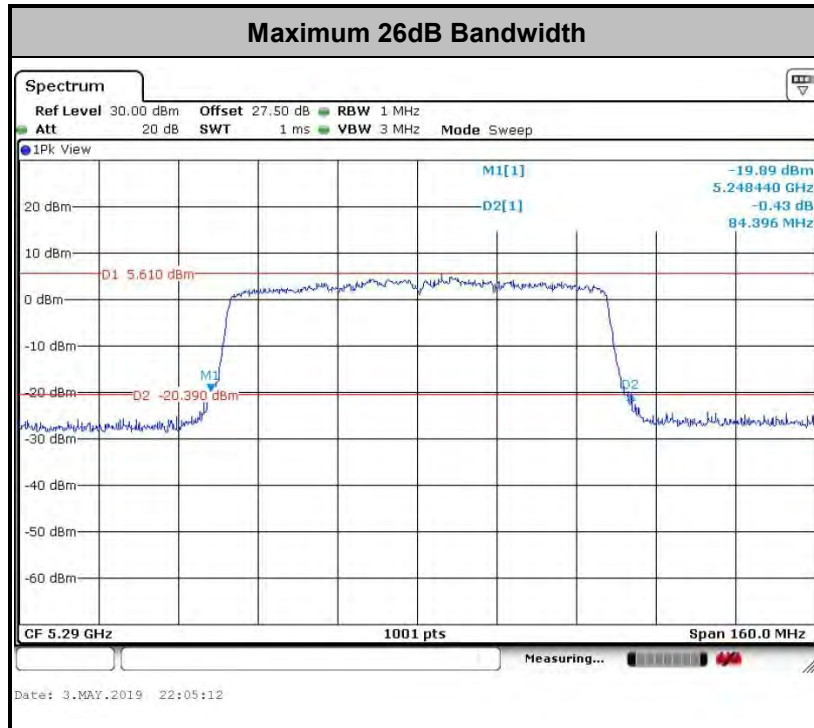
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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 1-5% of the emission bandwidth 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

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 the 5.15–5.25 GHz bands:**

- 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 an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

##### **For the 5.25–5.725 GHz bands:**

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

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, 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.

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

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

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.2.3 Test Procedures

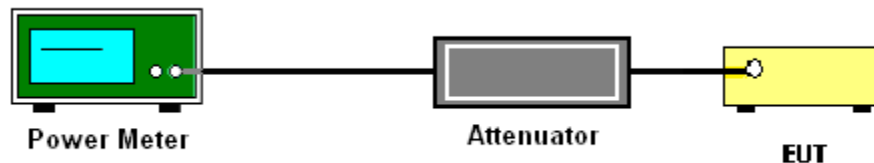
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, 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.

### 3.2.4 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 the 5.15–5.25 GHz bands:**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

##### **For the 5.25–5.725 GHz bands:**

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, 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.

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

#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. 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).

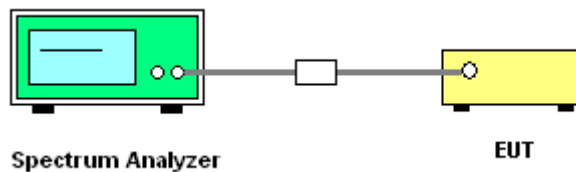
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW  $\geq$  3 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add  $10 \log(1/x)$ , 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.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

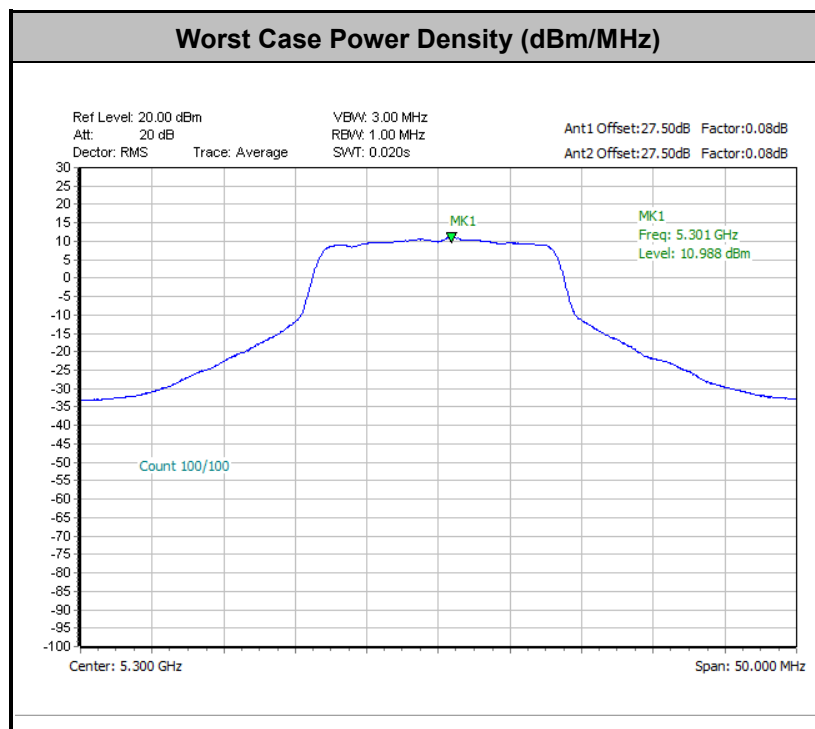
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

### 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 Emissions 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 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz 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) |
|------------|-------------------------------|
| - 27       | 68.3                          |

(3) KDB789033 D02 v02r01 G)2)c)

- (i) Section 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

See list of measuring equipment of this test report.

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. 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

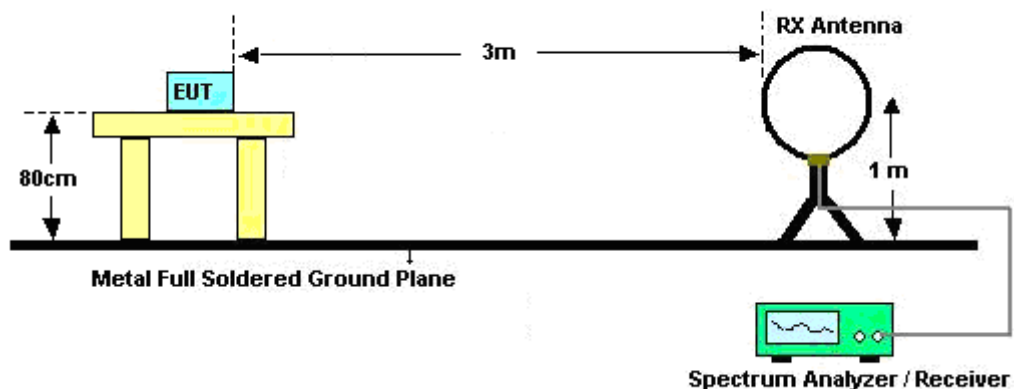
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

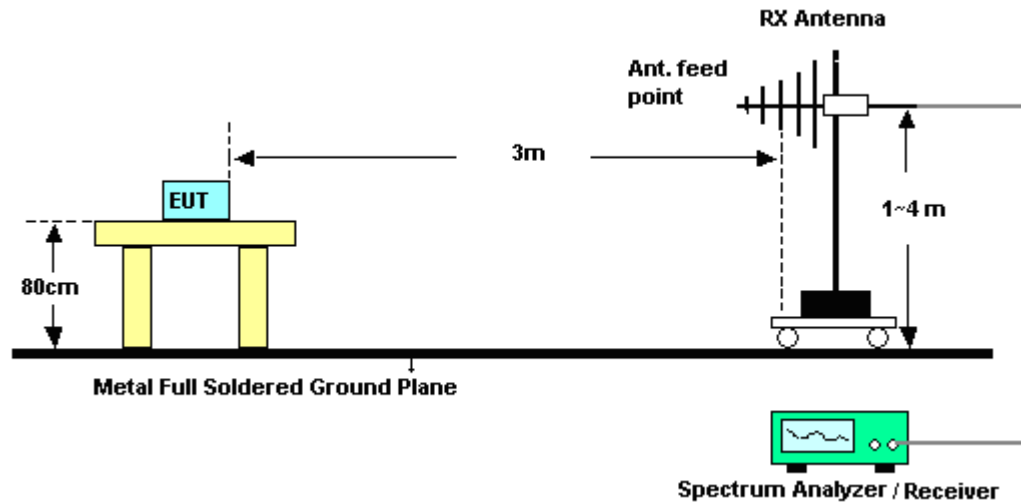
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

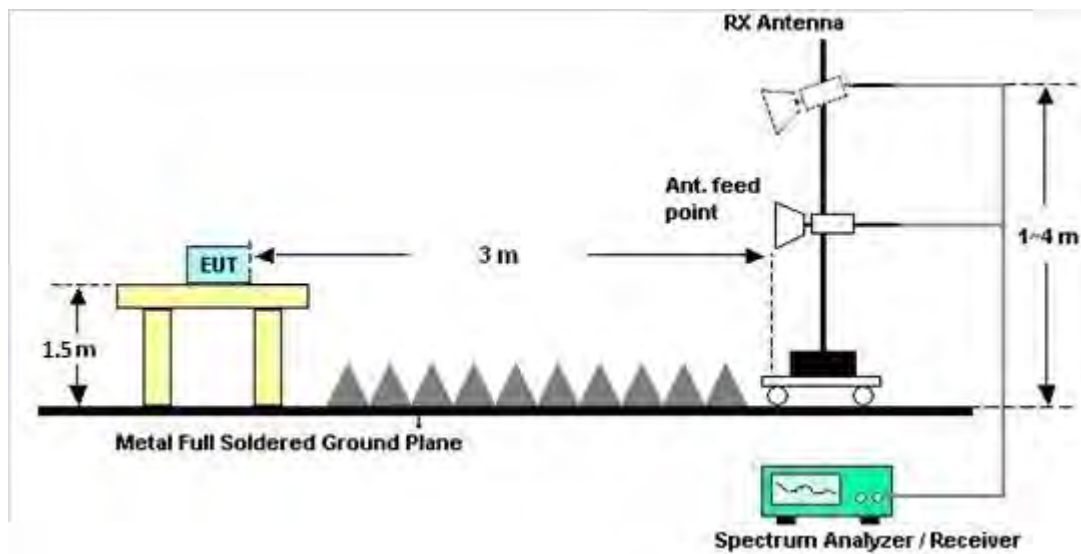
**For radiated emissions below 30MHz**



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 alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, 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.

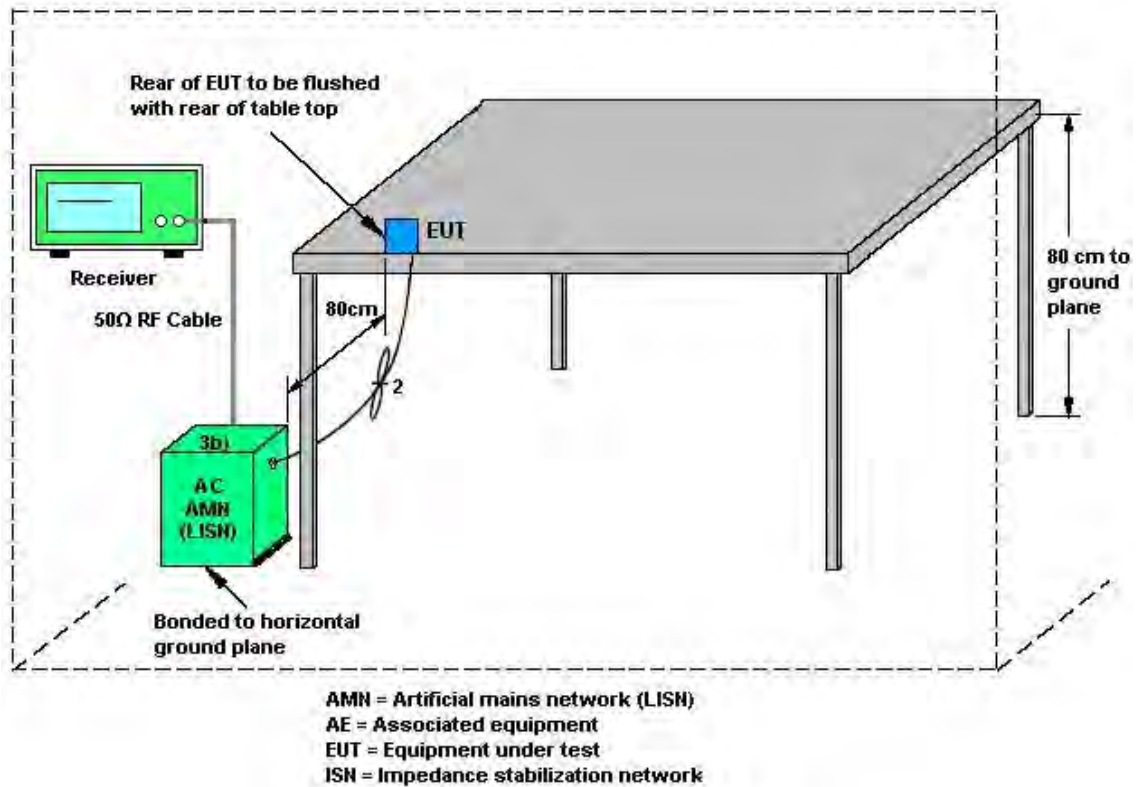
#### 3.5.2 Measuring Instruments

See list of measuring equipment 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**

See list of measuring equipment 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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain =  $10 \log(\text{NANT}/\text{NSS}=1)$  dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $\text{NANT} \leq 4$ .

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

| <CDD Modes> |                 |                 |                    |                  |                             |                           |
|-------------|-----------------|-----------------|--------------------|------------------|-----------------------------|---------------------------|
|             |                 |                 | DG<br>for<br>Power | DG<br>for<br>PSD | Power<br>Limit<br>Reduction | PSD<br>Limit<br>Reduction |
|             | Ant. 1<br>(dBi) | Ant. 2<br>(dBi) | (dBi)              | (dBi)            | (dB)                        | (dB)                      |
| Band I      | 1.38            | 0.81            | 1.38               | 4.11             | 0.00                        | 0.00                      |
| Band II     | 1.81            | 1.18            | 1.81               | 4.51             | 0.00                        | 0.00                      |
| Band III    | 2.40            | 1.73            | 2.40               | 5.08             | 0.00                        | 0.00                      |

*Power limit reduction = Composite gain – 6dBi, ( min = 0 )*

*PSD limit reduction = Composite gain + PSD Array gain – 6dBi, ( min = 0 )*

## 4 List of Measuring Equipment

| Instrument           | Manufacturer      | Model No.                      | Serial No.  | Characteristics               | Calibration Date | Test Date                     | Due Date      | Remark                |
|----------------------|-------------------|--------------------------------|-------------|-------------------------------|------------------|-------------------------------|---------------|-----------------------|
| Loop Antenna         | Rohde & Schwarz   | HFH2-Z2                        | 100488      | 9 kHz~30 MHz                  | Jan. 07, 2019    | Apr. 08, 2019 ~ Apr. 11, 2019 | Jan. 06, 2020 | Radiation (03CH13-HY) |
| Horn Antenna         | SCHWARZBECK       | BBHA 9120 D                    | 9120D-1241  | 1GHz ~ 18GHz                  | Jun. 29, 2018    | Apr. 08, 2019 ~ Apr. 11, 2019 | Jun. 28, 2019 | Radiation (03CH13-HY) |
| Bilog Antenna        | TESEQ             | CBL 6111D&00800 N1D01N-06      | 37059&01    | 30MHz~1GHz                    | Oct. 13, 2018    | Apr. 08, 2019 ~ Apr. 11, 2019 | Oct. 12, 2019 | Radiation (03CH13-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK       | BBHA 9170                      | BBHA9170584 | 18GHz- 40GHz                  | Dec. 05, 2018    | Apr. 08, 2019 ~ Apr. 11, 2019 | Dec. 04, 2019 | Radiation (03CH13-HY) |
| Preamplifier         | Keysight          | 83017A                         | MY53270080  | 1GHz~26.5GHz                  | Nov. 14, 2018    | Apr. 08, 2019 ~ Apr. 11, 2019 | Nov. 13, 2020 | Radiation (03CH13-HY) |
| Preamplifier         | MITEQ             | AMF-7D-0010 1800-30-10P        | 1590074     | 1GHz~18GHz                    | May 21, 2018     | Apr. 08, 2019 ~ Apr. 11, 2019 | May 20, 2019  | Radiation (03CH13-HY) |
| Amplifier            | Sonoma-Instrument | 310 N                          | 187282      | 9KHz~1GHz                     | Dec. 18, 2018    | Apr. 08, 2019 ~ Apr. 11, 2019 | Dec. 17, 2019 | Radiation (03CH13-HY) |
| Amplifier            | MITEQ             | TTA1840-35-HG                  | 1871923     | 18GHz~40GHz, VSWR : 2.5:1 max | Jul. 16, 2018    | Apr. 08, 2019 ~ Apr. 11, 2019 | Jul. 15, 2019 | Radiation (03CH13-HY) |
| RF Cable             | HUBER + SUHNER    | SUCOFLEX 126E                  | 0030/126E   | 30M-18G                       | Feb. 13, 2019    | Apr. 08, 2019 ~ Apr. 11, 2019 | Feb. 12, 2020 | Radiation (03CH13-HY) |
| RF Cable             | HUBER + SUHNER    | SUCOFLEX 104                   | 804793/4    | 30M-18G                       | Feb. 13, 2019    | Apr. 08, 2019 ~ Apr. 11, 2019 | Feb. 12, 2020 | Radiation (03CH13-HY) |
| RF Cable             | HUBER + SUHNER    | SUCOFLEX 104                   | MY24961/4   | 30M-18G                       | Feb. 13, 2019    | Apr. 08, 2019 ~ Apr. 11, 2019 | Feb. 12, 2020 | Radiation (03CH13-HY) |
| RF Cable             | HUBER + SUHNER    | SUCOFLEX 102                   | MY2859/2    | 30M~40GHz                     | Mar. 13, 2019    | Apr. 08, 2019 ~ Apr. 11, 2019 | Mar. 12, 2020 | Radiation (03CH13-HY) |
| RF Cable             | HUBER + SUHNER    | SUCOFLEX 102                   | MY4274/2    | 30M~40GHz                     | Mar. 13, 2019    | Apr. 08, 2019 ~ Apr. 11, 2019 | Mar. 12, 2020 | Radiation (03CH13-HY) |
| Spectrum Analyzer    | Agilent           | N9010A                         | MY55370526  | 10Hz~44GHz                    | Mar. 19, 2019    | Apr. 08, 2019 ~ Apr. 11, 2019 | Mar. 18, 2020 | Radiation (03CH13-HY) |
| Antenna Mast         | EMEC              | AM-BS-4500-B                   | N/A         | 1m~4m                         | N/A              | Apr. 08, 2019 ~ Apr. 11, 2019 | N/A           | Radiation (03CH13-HY) |
| Turn Table           | EMEC              | TT2000                         | N/A         | 0~360 Degree                  | N/A              | Apr. 08, 2019 ~ Apr. 11, 2019 | N/A           | Radiation (03CH13-HY) |
| Software             | AUDIX             | E3 6.2009-8-24c                | RK-001124   | N/A                           | N/A              | Apr. 08, 2019 ~ Apr. 11, 2019 | N/A           | Radiation (03CH13-HY) |
| EMI Test Receiver    | Keysight          | N9038A(MXE)                    | MY54130085  | 20Hz ~ 8.4GHz                 | Nov. 01, 2018    | Apr. 08, 2019 ~ Apr. 11, 2019 | Oct. 31, 2019 | Radiation (03CH13-HY) |
| Filter               | Woken             | WHKX8-5272. 5-6750-18000 -40ST | SN5         | 6.75G Highpass                | Mar.13, 2019     | Apr. 08, 2019 ~ Apr. 11, 2019 | Mar. 12, 2020 | Radiation (03CH13-HY) |
| Filter               | Wainwright        | WHKX12-108 0-1200-15000 -60ST  | SN3         | 1.2G Low Pass                 | Jul. 05, 2018    | Apr. 08, 2019 ~ Apr. 11, 2019 | Jul. 04, 2019 | Radiation (03CH13-HY) |



| Instrument               | Manufacturer       | Model No.       | Serial No.        | Characteristics | Calibration Date | Test Date                      | Due Date      | Remark                  |
|--------------------------|--------------------|-----------------|-------------------|-----------------|------------------|--------------------------------|---------------|-------------------------|
| Power Sensor             | DARE               | RPR3006W        | 13I00030S<br>NO32 | 9kHz~6GHz       | Dec. 03, 2018    | May 03, 2019~<br>Jun. 14, 2019 | Dec. 02, 2019 | Conducted<br>(TH05-HY)  |
| Signal Analyzer          | Rohde &<br>Schwarz | FSV40           | 101397            | 10Hz~40GHz      | Nov. 13, 2018    | May 03, 2019~<br>Jun. 14, 2019 | Nov. 12, 2019 | Conducted<br>(TH05-HY)  |
| Switch Box & RF<br>Cable | Burgeon            | ETF-058         | EC120838<br>2     | N/A             | Mar. 27, 2019    | May 03, 2019~<br>Jun. 14, 2019 | Mar. 26, 2020 | Conducted<br>(TH05-HY)  |
| AC Power Source          | ChainTek           | APC-1000W       | N/A               | N/A             | N/A              | May 21, 2019                   | N/A           | Conduction<br>(CO05-HY) |
| EMI Test Receiver        | Rohde &<br>Schwarz | ESR3            | 102388            | 9KHz~3.6GHz     | Nov. 12, 2018    | May 21, 2019                   | Nov. 11, 2019 | Conduction<br>(CO05-HY) |
| LISN                     | Rohde &<br>Schwarz | ENV216          | 100080            | 9kHz~30MHz      | Nov. 14, 2018    | May 21, 2019                   | Nov. 13, 2019 | Conduction<br>(CO05-HY) |
| LISN                     | Rohde &<br>Schwarz | ENV216          | 100081            | 9kHz~30MHz      | Nov. 09, 2018    | May 21, 2019                   | Nov. 08, 2019 | Conduction<br>(CO05-HY) |
| Software                 | Rohde &<br>Schwarz | EMC32<br>V10.30 | N/A               | N/A             | N/A              | May 21, 2019                   | N/A           | Conduction<br>(CO05-HY) |
| LF Cable                 | HUBER +<br>SUHNER  | RG-214/U        | LF01              | N/A             | Dec. 31, 2018    | May 21, 2019                   | Dec. 30, 2019 | Conduction<br>(CO05-HY) |
| Pulse Limiter            | Rohde &<br>Schwarz | ESH3-Z2         | 100851            | N/A             | Dec. 31, 2018    | May 21, 2019                   | Dec. 30, 2019 | Conduction<br>(CO05-HY) |

## 5 Uncertainty of Evaluation

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

|                                                                          |       |
|--------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 2.2dB |
|--------------------------------------------------------------------------|-------|

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

|                                                                          |       |
|--------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 4.9dB |
|--------------------------------------------------------------------------|-------|

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

|                                                                          |       |
|--------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 5.4dB |
|--------------------------------------------------------------------------|-------|

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

|                                                                          |       |
|--------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 4.3dB |
|--------------------------------------------------------------------------|-------|

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

|                |                    |                    |       |    |
|----------------|--------------------|--------------------|-------|----|
| Test Engineer: | Leo Li             | Temperature:       | 21~25 | °C |
| Test Date:     | 2019/5/3~2019/6/14 | Relative Humidity: | 51~54 | %  |

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

| Band I |           |                 |     |             |                     |       |                       |       |                                    |       |                                   |       |      |
|--------|-----------|-----------------|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|------|
| Mod.   | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | Note |
|        |           |                 |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 |      |
| 11a    | 6Mbps     | 2               | 36  | 5180        | 16.78               | 16.73 | 24.68                 | 24.78 | -                                  |       | 22.24                             |       |      |
| 11a    | 6Mbps     | 2               | 44  | 5220        | 16.88               | 16.73 | 25.42                 | 25.12 | -                                  |       | 22.24                             |       |      |
| 11a    | 6Mbps     | 2               | 48  | 5240        | 16.83               | 16.73 | 25.17                 | 25.57 | -                                  |       | 22.24                             |       |      |
| HT20   | MCS0      | 2               | 36  | 5180        | 17.98               | 17.98 | 26.97                 | 26.17 | -                                  |       | 22.55                             |       |      |
| HT20   | MCS0      | 2               | 44  | 5220        | 17.98               | 18.03 | 26.32                 | 27.37 | -                                  |       | 22.55                             |       |      |
| HT20   | MCS0      | 2               | 48  | 5240        | 18.03               | 17.98 | 26.37                 | 27.47 | -                                  |       | 22.55                             |       |      |
| HT40   | MCS0      | 2               | 38  | 5190        | 36.66               | 36.46 | 41.90                 | 42.08 | -                                  |       | 23.01                             |       |      |
| HT40   | MCS0      | 2               | 46  | 5230        | 36.76               | 36.46 | 42.53                 | 42.62 | -                                  |       | 23.01                             |       |      |
| VHT80  | MCS0      | 2               | 42  | 5210        | 76.00               | 76.12 | 84.08                 | 82.48 | -                                  |       | 23.01                             |       |      |

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

| FCC Band I |           |                 |     |             |                               |       |       |                                 |       |          |       |           |
|------------|-----------|-----------------|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| Mod.       | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|            |           |                 |     |             | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a        | 6Mbps     | 2               | 36  | 5180        | 19.60                         | 19.30 | 22.46 | 24.00                           |       | 1.38     |       | Pass      |
| 11a        | 6Mbps     | 2               | 44  | 5220        | 19.50                         | 19.10 | 22.31 | 24.00                           |       | 1.38     |       | Pass      |
| 11a        | 6Mbps     | 2               | 48  | 5240        | 19.50                         | 19.00 | 22.27 | 24.00                           |       | 1.38     |       | Pass      |
| HT20       | MCS0      | 2               | 36  | 5180        | 19.60                         | 19.10 | 22.37 | 24.00                           |       | 1.38     |       | Pass      |
| HT20       | MCS0      | 2               | 44  | 5220        | 19.50                         | 18.90 | 22.22 | 24.00                           |       | 1.38     |       | Pass      |
| HT20       | MCS0      | 2               | 48  | 5240        | 19.40                         | 18.80 | 22.12 | 24.00                           |       | 1.38     |       | Pass      |
| HT40       | MCS0      | 2               | 38  | 5190        | 16.30                         | 15.80 | 19.07 | 24.00                           |       | 1.38     |       | Pass      |
| HT40       | MCS0      | 2               | 46  | 5230        | 19.90                         | 19.30 | 22.62 | 24.00                           |       | 1.38     |       | Pass      |
| VHT20      | MCS0      | 2               | 36  | 5180        | 19.50                         | 19.00 | 22.27 | 24.00                           |       | 1.38     |       | Pass      |
| VHT20      | MCS0      | 2               | 44  | 5220        | 19.40                         | 18.80 | 22.12 | 24.00                           |       | 1.38     |       | Pass      |
| VHT20      | MCS0      | 2               | 48  | 5240        | 19.30                         | 18.70 | 22.02 | 24.00                           |       | 1.38     |       | Pass      |
| VHT40      | MCS0      | 2               | 38  | 5190        | 16.20                         | 15.70 | 18.97 | 24.00                           |       | 1.38     |       | Pass      |
| VHT40      | MCS0      | 2               | 46  | 5230        | 19.60                         | 19.10 | 22.37 | 24.00                           |       | 1.38     |       | Pass      |
| VHT80      | MCS0      | 2               | 42  | 5210        | 15.70                         | 15.10 | 18.42 | 24.00                           |       | 1.38     |       | Pass      |

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

| FCC Band I |           |                 |     |             |                  |       |                                 |       |       |                             |       |          |       |      |            |
|------------|-----------|-----------------|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------|------------|
| Mod.       | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       |      | Pass /Fail |
|            |           |                 |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |      |            |
| 11a        | 6Mbps     | 2               | 36  | 5180        | 0.08             | 0.08  |                                 |       | 10.87 | 11.00                       | 4.11  |          |       | Pass |            |
| 11a        | 6Mbps     | 2               | 44  | 5220        | 0.08             | 0.08  |                                 |       | 10.94 | 11.00                       | 4.11  |          |       | Pass |            |
| 11a        | 6Mbps     | 2               | 48  | 5240        | 0.08             | 0.08  |                                 |       | 10.82 | 11.00                       | 4.11  |          |       | Pass |            |
| HT20       | MCS0      | 2               | 36  | 5180        | 0.09             | 0.09  |                                 |       | 10.83 | 11.00                       | 4.11  |          |       | Pass |            |
| HT20       | MCS0      | 2               | 44  | 5220        | 0.09             | 0.09  |                                 |       | 10.95 | 11.00                       | 4.11  |          |       | Pass |            |
| HT20       | MCS0      | 2               | 48  | 5240        | 0.09             | 0.09  |                                 |       | 10.74 | 11.00                       | 4.11  |          |       | Pass |            |
| HT40       | MCS0      | 2               | 38  | 5190        | 0.17             | 0.17  |                                 |       | 4.54  | 11.00                       | 4.11  |          |       | Pass |            |
| HT40       | MCS0      | 2               | 46  | 5230        | 0.17             | 0.17  |                                 |       | 7.99  | 11.00                       | 4.11  |          |       | Pass |            |
| VHT80      | MCS0      | 2               | 42  | 5210        | 0.20             | 0.20  |                                 |       | 0.62  | 11.00                       | 4.11  |          |       | Pass |            |

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

| Band II |           |                 |     |             |                     |       |                       |       |                                    |       |                                   |       |                                      |       |      |
|---------|-----------|-----------------|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.    | Data Rate | N <sub>TX</sub> | 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 |
|         |           |                 |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| 11a     | 6Mbps     | 2               | 52  | 5260        | 16.83               | 16.73 | 25.22                 | 25.27 | 23.24                              |       | 29.24                             |       | 23.98                                |       |      |
| 11a     | 6Mbps     | 2               | 60  | 5300        | 16.93               | 16.73 | 25.42                 | 25.03 | 23.24                              |       | 29.24                             |       | 23.98                                |       |      |
| 11a     | 6Mbps     | 2               | 64  | 5320        | 16.88               | 16.73 | 25.42                 | 24.88 | 23.24                              |       | 29.24                             |       | 23.98                                |       |      |
| HT20    | MCS0      | 2               | 52  | 5260        | 17.98               | 18.08 | 27.12                 | 25.82 | 23.55                              |       | 29.55                             |       | 23.98                                |       |      |
| HT20    | MCS0      | 2               | 60  | 5300        | 17.98               | 17.93 | 25.82                 | 25.67 | 23.54                              |       | 29.54                             |       | 23.98                                |       |      |
| HT20    | MCS0      | 2               | 64  | 5320        | 18.03               | 17.93 | 26.37                 | 25.32 | 23.54                              |       | 29.54                             |       | 23.98                                |       |      |
| HT40    | MCS0      | 2               | 54  | 5270        | 36.76               | 36.46 | 41.81                 | 42.44 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| HT40    | MCS0      | 2               | 62  | 5310        | 36.66               | 36.46 | 41.63                 | 41.90 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80   | MCS0      | 2               | 58  | 5290        | 76.24               | 76.00 | 83.28                 | 84.40 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |

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

| FCC Band II |           |                 |     |             |                               |       |       |                                 |       |          |       |                        |           |
|-------------|-----------|-----------------|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.        | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|             |           |                 |     |             | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a         | 6Mbps     | 2               | 52  | 5260        | 19.40                         | 18.80 | 22.12 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| 11a         | 6Mbps     | 2               | 60  | 5300        | 19.50                         | 18.70 | 22.13 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| 11a         | 6Mbps     | 2               | 64  | 5320        | 19.20                         | 18.40 | 21.83 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| HT20        | MCS0      | 2               | 52  | 5260        | 19.30                         | 18.70 | 22.02 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| HT20        | MCS0      | 2               | 60  | 5300        | 19.40                         | 18.60 | 22.03 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| HT20        | MCS0      | 2               | 64  | 5320        | 19.10                         | 18.30 | 21.73 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| HT40        | MCS0      | 2               | 54  | 5270        | 19.80                         | 19.00 | 22.43 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| HT40        | MCS0      | 2               | 62  | 5310        | 15.00                         | 14.10 | 17.58 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2               | 52  | 5260        | 19.10                         | 18.60 | 21.87 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2               | 60  | 5300        | 19.30                         | 18.50 | 21.93 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2               | 64  | 5320        | 19.00                         | 18.20 | 21.63 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| VHT40       | MCS0      | 2               | 54  | 5270        | 19.50                         | 18.90 | 22.22 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| VHT40       | MCS0      | 2               | 62  | 5310        | 14.90                         | 14.00 | 17.48 | 23.98                           |       | 1.81     |       | 30                     | Pass      |
| VHT80       | MCS0      | 2               | 58  | 5290        | 13.80                         | 13.10 | 16.47 | 23.98                           |       | 1.81     |       | 30                     | Pass      |

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

| Band II |           |                 |     |             |                  |       |                                 |       |       |                             |       |          |       |      |            |
|---------|-----------|-----------------|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------|------------|
| Mod.    | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       |      | Pass /Fail |
|         |           |                 |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |      |            |
| 11a     | 6Mbps     | 2               | 52  | 5260        | 0.08             | 0.08  |                                 |       | 10.75 | 11.00                       | 4.51  |          |       | Pass |            |
| 11a     | 6Mbps     | 2               | 60  | 5300        | 0.08             | 0.08  |                                 |       | 10.99 | 11.00                       | 4.51  |          |       | Pass |            |
| 11a     | 6Mbps     | 2               | 64  | 5320        | 0.08             | 0.08  |                                 |       | 10.81 | 11.00                       | 4.51  |          |       | Pass |            |
| HT20    | MCS0      | 2               | 52  | 5260        | 0.09             | 0.09  |                                 |       | 10.69 | 11.00                       | 4.51  |          |       | Pass |            |
| HT20    | MCS0      | 2               | 60  | 5300        | 0.09             | 0.09  |                                 |       | 10.89 | 11.00                       | 4.51  |          |       | Pass |            |
| HT20    | MCS0      | 2               | 64  | 5320        | 0.09             | 0.09  |                                 |       | 10.81 | 11.00                       | 4.51  |          |       | Pass |            |
| HT40    | MCS0      | 2               | 54  | 5270        | 0.17             | 0.17  |                                 |       | 7.84  | 11.00                       | 4.51  |          |       | Pass |            |
| HT40    | MCS0      | 2               | 62  | 5310        | 0.17             | 0.17  |                                 |       | 3.52  | 11.00                       | 4.51  |          |       | Pass |            |
| VHT80   | MCS0      | 2               | 58  | 5290        | 0.20             | 0.20  |                                 |       | -0.99 | 11.00                       | 4.51  |          |       | Pass |            |

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

| Band III |           |                 |     |             |                                 |       |                                   |       |                                    |       |                                   |       |                                      |       |                                           |       |
|----------|-----------|-----------------|-----|-------------|---------------------------------|-------|-----------------------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|-------------------------------------------|-------|
| Mod.     | Data Rate | N <sub>Tx</sub> | CH. | Freq. (MHz) | 99% Bandwidth In U-NII 2C (MHz) |       | 26 dB Bandwidth In U-NII 2C (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | 6 dB Bandwidth for Straddle Channel (MHz) |       |
|          |           |                 |     |             | Ant 1                           | Ant 2 | Ant 1                             | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 | Ant 1                                     | Ant 2 |
| 11a      | 6Mbps     | 2               | 100 | 5500        | 16.88                           | 16.68 | 25.03                             | 24.63 | 23.22                              |       | 29.22                             |       | 23.98                                |       | ----                                      | ----  |
| 11a      | 6Mbps     | 2               | 116 | 5580        | 16.88                           | 16.68 | 25.22                             | 24.68 | 23.22                              |       | 29.22                             |       | 23.98                                |       | ----                                      | ----  |
| 11a      | 6Mbps     | 2               | 140 | 5700        | 16.93                           | 16.73 | 25.77                             | 24.93 | 23.24                              |       | 29.24                             |       | 23.98                                |       | ----                                      | ----  |
| 11a      | 6Mbps     | 2               | 144 | 5720        | 13.39                           | 13.34 | 17.74                             | 17.14 | 22.25                              |       | 28.25                             |       | 23.34                                |       | 2.742                                     | 3.142 |
| HT20     | MCS0      | 2               | 100 | 5500        | 18.03                           | 17.93 | 27.47                             | 25.47 | 23.54                              |       | 29.54                             |       | 23.98                                |       | ----                                      | ----  |
| HT20     | MCS0      | 2               | 116 | 5580        | 18.03                           | 17.93 | 26.92                             | 25.62 | 23.54                              |       | 29.54                             |       | 23.98                                |       | ----                                      | ----  |
| HT20     | MCS0      | 2               | 140 | 5700        | 18.03                           | 17.93 | 27.32                             | 25.27 | 23.54                              |       | 29.54                             |       | 23.98                                |       | ----                                      | ----  |
| HT20     | MCS0      | 2               | 144 | 5720        | 13.99                           | 13.94 | 18.14                             | 17.54 | 22.44                              |       | 28.44                             |       | 23.44                                |       | 3.341                                     | 3.141 |
| HT40     | MCS0      | 2               | 102 | 5510        | 36.66                           | 36.56 | 41.90                             | 42.08 | 23.98                              |       | 30.00                             |       | 23.98                                |       | ----                                      | ----  |
| HT40     | MCS0      | 2               | 110 | 5550        | 36.66                           | 36.76 | 42.26                             | 42.35 | 23.98                              |       | 30.00                             |       | 23.98                                |       | ----                                      | ----  |
| HT40     | MCS0      | 2               | 134 | 5670        | 36.66                           | 36.56 | 42.53                             | 42.17 | 23.98                              |       | 30.00                             |       | 23.98                                |       | ----                                      | ----  |
| HT40     | MCS0      | 2               | 142 | 5710        | 33.28                           | 33.28 | 36.31                             | 36.04 | 23.98                              |       | 30.00                             |       | 23.98                                |       | 2.528                                     | 2.528 |
| VHT80    | MCS0      | 2               | 106 | 5530        | 76.12                           | 76.12 | 83.28                             | 83.12 | 23.98                              |       | 30.00                             |       | 23.98                                |       | ----                                      | ----  |
| VHT80    | MCS0      | 2               | 122 | 5610        | 76.24                           | 76.24 | 83.76                             | 83.92 | 23.98                              |       | 30.00                             |       | 23.98                                |       | ----                                      | ----  |
| VHT80    | MCS0      | 2               | 138 | 5690        | 73.12                           | 72.88 | 77.20                             | 76.88 | 23.98                              |       | 30.00                             |       | 23.98                                |       | 2.565                                     | 2.565 |

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

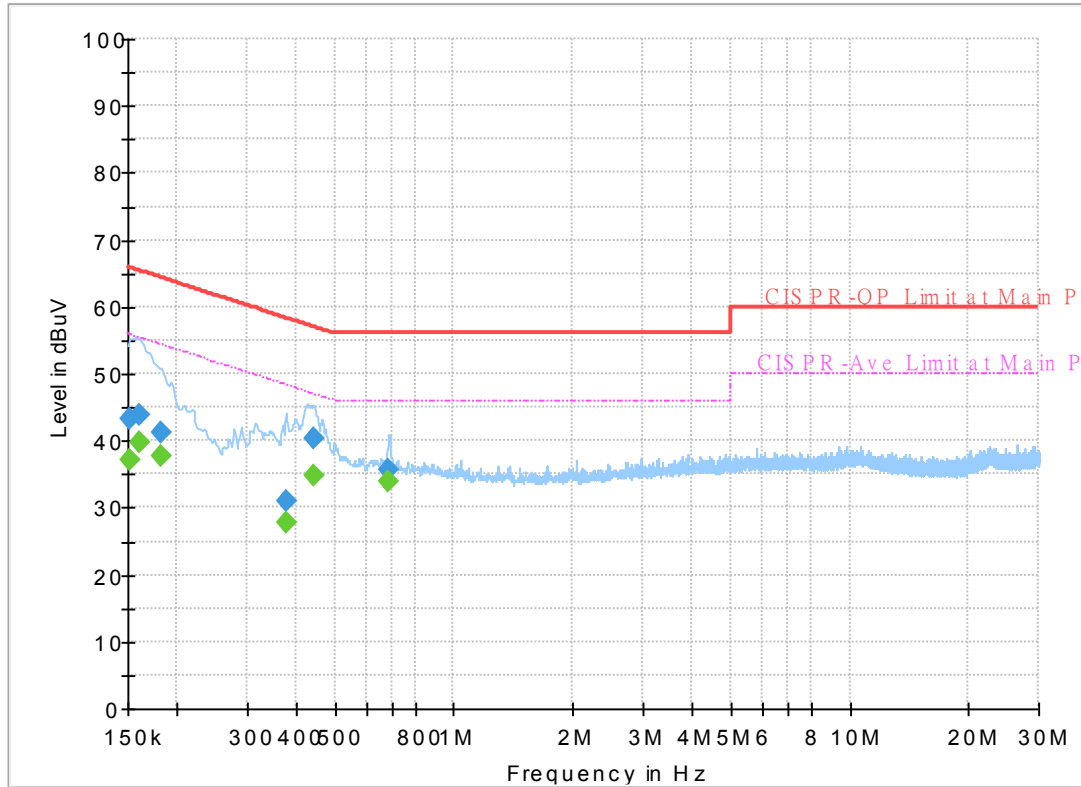
| FCC Band III |           |                 |     |             |                               |       |       |                                 |       |          |       |                        |           |
|--------------|-----------|-----------------|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.         | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|              |           |                 |     |             | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a          | 6Mbps     | 2               | 100 | 5500        | 19.20                         | 19.10 | 22.16 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| 11a          | 6Mbps     | 2               | 116 | 5580        | 19.10                         | 18.80 | 21.96 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| 11a          | 6Mbps     | 2               | 140 | 5700        | 19.60                         | 19.00 | 22.32 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| 11a          | 6Mbps     | 2               | 144 | 5720        | 19.40                         | 18.70 | 22.07 | 23.34                           |       | 2.40     |       | 30                     | Pass      |
| HT20         | MCS0      | 2               | 100 | 5500        | 19.50                         | 19.10 | 22.31 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| HT20         | MCS0      | 2               | 116 | 5580        | 19.30                         | 18.90 | 22.11 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| HT20         | MCS0      | 2               | 140 | 5700        | 19.30                         | 18.70 | 22.02 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| HT20         | MCS0      | 2               | 144 | 5720        | 19.20                         | 18.40 | 21.83 | 23.44                           |       | 2.40     |       | 30                     | Pass      |
| HT40         | MCS0      | 2               | 102 | 5510        | 18.80                         | 18.70 | 21.76 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| HT40         | MCS0      | 2               | 110 | 5550        | 20.30                         | 20.10 | 23.21 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| HT40         | MCS0      | 2               | 134 | 5670        | 19.80                         | 19.30 | 22.57 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| HT40         | MCS0      | 2               | 142 | 5710        | 19.70                         | 19.20 | 22.47 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2               | 100 | 5500        | 19.40                         | 19.00 | 22.21 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2               | 116 | 5580        | 19.20                         | 19.00 | 22.11 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2               | 140 | 5700        | 19.20                         | 18.80 | 22.01 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2               | 144 | 5720        | 19.10                         | 18.50 | 21.82 | 23.44                           |       | 2.40     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2               | 102 | 5510        | 18.70                         | 18.60 | 21.66 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2               | 110 | 5550        | 20.20                         | 20.00 | 23.11 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2               | 134 | 5670        | 19.70                         | 19.20 | 22.47 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2               | 142 | 5710        | 19.60                         | 19.10 | 22.37 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT80        | MCS0      | 2               | 106 | 5530        | 18.10                         | 17.80 | 20.96 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT80        | MCS0      | 2               | 122 | 5610        | 19.20                         | 19.00 | 22.11 | 23.98                           |       | 2.40     |       | 30                     | Pass      |
| VHT80        | MCS0      | 2               | 138 | 5690        | 19.10                         | 18.90 | 22.01 | 23.98                           |       | 2.40     |       | 30                     | Pass      |

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

| Band III |           |                 |     |             |                  |       |                                 |       |       |                             |       |          |       |            |
|----------|-----------|-----------------|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.     | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|          |           |                 |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a      | 6Mbps     | 2               | 100 | 5500        | 0.08             | 0.08  |                                 |       | 10.96 | 11.00                       | 5.08  |          |       | Pass       |
| 11a      | 6Mbps     | 2               | 116 | 5580        | 0.08             | 0.08  |                                 |       | 10.69 | 11.00                       | 5.08  |          |       | Pass       |
| 11a      | 6Mbps     | 2               | 140 | 5700        | 0.08             | 0.08  |                                 |       | 10.99 | 11.00                       | 5.08  |          |       | Pass       |
| 11a      | 6Mbps     | 2               | 144 | 5720        | 0.08             | 0.08  |                                 |       | 10.92 | 11.00                       | 5.08  |          |       | Pass       |
| HT20     | MCS0      | 2               | 100 | 5500        | 0.09             | 0.09  |                                 |       | 10.87 | 11.00                       | 5.08  |          |       | Pass       |
| HT20     | MCS0      | 2               | 116 | 5580        | 0.09             | 0.09  |                                 |       | 10.64 | 11.00                       | 5.08  |          |       | Pass       |
| HT20     | MCS0      | 2               | 140 | 5700        | 0.09             | 0.09  |                                 |       | 10.43 | 11.00                       | 5.08  |          |       | Pass       |
| HT20     | MCS0      | 2               | 144 | 5720        | 0.09             | 0.09  |                                 |       | 10.35 | 11.00                       | 5.08  |          |       | Pass       |
| HT40     | MCS0      | 2               | 102 | 5510        | 0.17             | 0.17  |                                 |       | 7.47  | 11.00                       | 5.08  |          |       | Pass       |
| HT40     | MCS0      | 2               | 110 | 5550        | 0.17             | 0.17  |                                 |       | 8.59  | 11.00                       | 5.08  |          |       | Pass       |
| HT40     | MCS0      | 2               | 134 | 5670        | 0.17             | 0.17  |                                 |       | 8.06  | 11.00                       | 5.08  |          |       | Pass       |
| HT40     | MCS0      | 2               | 142 | 5710        | 0.17             | 0.17  |                                 |       | 7.95  | 11.00                       | 5.08  |          |       | Pass       |
| VHT80    | MCS0      | 2               | 106 | 5530        | 0.20             | 0.20  |                                 |       | 2.99  | 11.00                       | 5.08  |          |       | Pass       |
| VHT80    | MCS0      | 2               | 122 | 5610        | 0.20             | 0.20  |                                 |       | 4.51  | 11.00                       | 5.08  |          |       | Pass       |
| VHT80    | MCS0      | 2               | 138 | 5690        | 0.20             | 0.20  |                                 |       | 4.54  | 11.00                       | 5.08  |          |       | Pass       |

## Appendix B. AC Conducted Emission Test Results

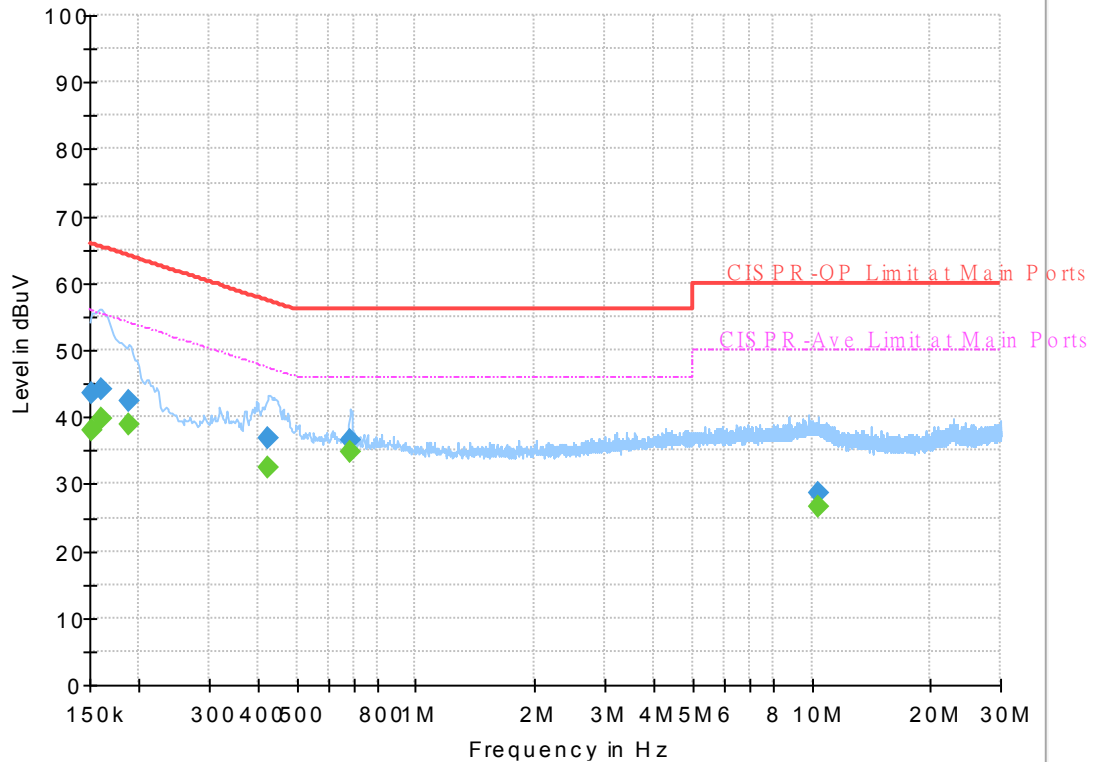
|                        |               |                            |         |
|------------------------|---------------|----------------------------|---------|
| <b>Test Engineer :</b> | Eric Jeng     | <b>Temperature :</b>       | 22~25°C |
|                        |               | <b>Relative Humidity :</b> | 52~55%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz | <b>Phase :</b>             | Line    |



| Frequency | QuasiPeak | CAverage | Limit | Margin | Line | Filter | Corr. |
|-----------|-----------|----------|-------|--------|------|--------|-------|
| 0.152250  | ---       | 37.19    | 55.88 | 18.69  | L1   | OFF    | 19.5  |
| 0.152250  | 43.16     | ---      | 65.88 | 22.72  | L1   | OFF    | 19.5  |
| 0.161250  | ---       | 39.70    | 55.40 | 15.70  | L1   | OFF    | 19.5  |
| 0.161250  | 43.97     | ---      | 65.40 | 21.43  | L1   | OFF    | 19.5  |
| 0.181500  | ---       | 37.73    | 54.42 | 16.69  | L1   | OFF    | 19.5  |
| 0.181500  | 41.35     | ---      | 64.42 | 23.07  | L1   | OFF    | 19.5  |
| 0.377250  | ---       | 27.82    | 48.34 | 20.52  | L1   | OFF    | 19.5  |
| 0.377250  | 31.09     | ---      | 58.34 | 27.25  | L1   | OFF    | 19.5  |
| 0.442500  | ---       | 34.90    | 47.02 | 12.12  | L1   | OFF    | 19.5  |
| 0.442500  | 40.33     | ---      | 57.02 | 16.69  | L1   | OFF    | 19.5  |
| 0.683250  | ---       | 33.82    | 46.00 | 12.18  | L1   | OFF    | 19.6  |
| 0.683250  | 35.56     | ---      | 56.00 | 20.44  | L1   | OFF    | 19.6  |



|                        |               |                            |         |
|------------------------|---------------|----------------------------|---------|
| <b>Test Engineer :</b> | Eric Jeng     | <b>Temperature :</b>       | 22~25°C |
|                        |               | <b>Relative Humidity :</b> | 52~55%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz | <b>Phase :</b>             | Neutral |

**Final Result**

| Frequency | QuasiPeak | CAverage | Limit | Margin | Line | Filter | Corr. |
|-----------|-----------|----------|-------|--------|------|--------|-------|
| 0.152250  | ---       | 38.06    | 55.88 | 17.82  | N    | OFF    | 19.5  |
| 0.152250  | 43.47     | ---      | 65.88 | 22.41  | N    | OFF    | 19.5  |
| 0.161250  | ---       | 39.74    | 55.40 | 15.66  | N    | OFF    | 19.5  |
| 0.161250  | 44.05     | ---      | 65.40 | 21.35  | N    | OFF    | 19.5  |
| 0.188250  | ---       | 38.85    | 54.11 | 15.26  | N    | OFF    | 19.5  |
| 0.188250  | 42.31     | ---      | 64.11 | 21.80  | N    | OFF    | 19.5  |
| 0.424500  | ---       | 32.48    | 47.36 | 14.88  | N    | OFF    | 19.5  |
| 0.424500  | 36.75     | ---      | 57.36 | 20.61  | N    | OFF    | 19.5  |
| 0.685500  | ---       | 34.92    | 46.00 | 11.08  | N    | OFF    | 19.6  |
| 0.685500  | 36.59     | ---      | 56.00 | 19.41  | N    | OFF    | 19.6  |
| 10.367250 | ---       | 26.63    | 50.00 | 23.37  | N    | OFF    | 19.9  |
| 10.367250 | 28.58     | ---      | 60.00 | 31.42  | N    | OFF    | 19.9  |



## Appendix C. Radiated Spurious Emission

|                 |                                 |                     |         |
|-----------------|---------------------------------|---------------------|---------|
| Test Engineer : | Alex Jheng, JC Liang, Wilson Wu | Temperature :       | 20~24°C |
|                 |                                 | Relative Humidity : | 50~55%  |

### Band 1 - 5150~5250MHz

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

| WIFI Ant.                   | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preampl Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|----------------|---------|-----------|-----------|---------|
| 1+2                         |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )         | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5149.24   | 55.85      | -18.15     | 74         | 47.57      | 31.69          | 6.08      | 29.49          | 262     | 305       | P         | H       |
|                             |      | 5149.5    | 47.35      | -6.65      | 54         | 39.07      | 31.69          | 6.08      | 29.49          | 262     | 305       | A         | H       |
|                             | *    | 5180      | 115.52     | -          | -          | 107.2      | 31.71          | 6.1       | 29.49          | 262     | 305       | P         | H       |
|                             | *    | 5180      | 107.47     | -          | -          | 99.15      | 31.71          | 6.1       | 29.49          | 262     | 305       | A         | H       |
|                             |      | 5149.5    | 53.43      | -20.57     | 74         | 45.15      | 31.69          | 6.08      | 29.49          | 302     | 5         | P         | V       |
|                             |      | 5147.68   | 44.58      | -9.42      | 54         | 36.3       | 31.69          | 6.08      | 29.49          | 302     | 5         | A         | V       |
|                             | *    | 5180      | 113.66     | -          | -          | 105.34     | 31.71          | 6.1       | 29.49          | 302     | 5         | P         | V       |
|                             | *    | 5180      | 105.25     | -          | -          | 96.93      | 31.71          | 6.1       | 29.49          | 302     | 5         | A         | V       |
| 802.11a<br>CH 44<br>5220MHz |      | 5142.74   | 50.58      | -23.42     | 74         | 42.3       | 31.69          | 6.08      | 29.49          | 261     | 305       | P         | H       |
|                             |      | 5150      | 42.51      | -11.49     | 54         | 34.23      | 31.69          | 6.08      | 29.49          | 261     | 305       | A         | H       |
|                             | *    | 5220      | 115.77     | -          | -          | 107.43     | 31.73          | 6.11      | 29.5           | 261     | 305       | P         | H       |
|                             | *    | 5220      | 107.8      | -          | -          | 99.46      | 31.73          | 6.11      | 29.5           | 261     | 305       | A         | H       |
|                             |      | 5355      | 50.87      | -23.13     | 74         | 42.46      | 31.81          | 6.12      | 29.52          | 261     | 305       | P         | H       |
|                             |      | 5452.72   | 42.49      | -11.51     | 54         | 33.99      | 31.87          | 6.17      | 29.54          | 261     | 305       | A         | H       |
|                             |      | 5078      | 50.43      | -23.57     | 74         | 42.21      | 31.65          | 6.04      | 29.47          | 298     | 6         | P         | V       |
|                             |      | 5150      | 40.32      | -13.68     | 54         | 32.04      | 31.69          | 6.08      | 29.49          | 298     | 6         | A         | V       |
|                             | *    | 5220      | 112.88     | -          | -          | 104.54     | 31.73          | 6.11      | 29.5           | 298     | 6         | P         | V       |
|                             | *    | 5220      | 105.04     | -          | -          | 96.7       | 31.73          | 6.11      | 29.5           | 298     | 6         | A         | V       |
|                             |      | 5361.16   | 49.29      | -24.71     | 74         | 40.88      | 31.82          | 6.12      | 29.53          | 298     | 6         | P         | V       |
|                             |      | 5452.44   | 39.49      | -14.51     | 54         | 30.99      | 31.87          | 6.17      | 29.54          | 298     | 6         | A         | V       |



|                                      |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5147.16 | 50.4   | -23.6  | 74 | 42.12  | 31.69 | 6.08 | 29.49 | 265 | 306 | P | H |
|                                      |                                                                                             | 5150    | 41.05  | -12.95 | 54 | 32.77  | 31.69 | 6.08 | 29.49 | 265 | 306 | A | H |
|                                      | *                                                                                           | 5240    | 116.16 | -      | -  | 107.81 | 31.74 | 6.11 | 29.5  | 265 | 306 | P | H |
|                                      | *                                                                                           | 5240    | 108.13 | -      | -  | 99.78  | 31.74 | 6.11 | 29.5  | 265 | 306 | A | H |
|                                      |                                                                                             | 5384.12 | 51.53  | -22.47 | 74 | 43.11  | 31.83 | 6.12 | 29.53 | 265 | 306 | P | H |
|                                      |                                                                                             | 5350.24 | 42.66  | -11.34 | 54 | 34.25  | 31.81 | 6.12 | 29.52 | 265 | 306 | A | H |
|                                      |                                                                                             | 5126.1  | 49.75  | -24.25 | 74 | 41.48  | 31.68 | 6.07 | 29.48 | 394 | 12  | P | V |
|                                      |                                                                                             | 5149.76 | 39.41  | -14.59 | 54 | 31.13  | 31.69 | 6.08 | 29.49 | 394 | 12  | A | V |
|                                      | *                                                                                           | 5240    | 112.72 | -      | -  | 104.37 | 31.74 | 6.11 | 29.5  | 394 | 12  | P | V |
|                                      | *                                                                                           | 5240    | 104.9  | -      | -  | 96.55  | 31.74 | 6.11 | 29.5  | 394 | 12  | A | V |
|                                      |                                                                                             | 5365.36 | 49.38  | -24.62 | 74 | 40.97  | 31.82 | 6.12 | 29.53 | 394 | 12  | P | V |
|                                      |                                                                                             | 5350.52 | 39.45  | -14.55 | 54 | 31.04  | 31.81 | 6.12 | 29.52 | 394 | 12  | 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+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<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                | 47.31               | -20.89                  | 68.2                        | 54.6                    | 39.76                         | 9.91                   | 56.96                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15540                | 44.59               | -29.41                  | 74                          | 49.97                   | 38.62                         | 12.65                  | 56.65                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 10360                | 46.13               | -22.07                  | 68.2                        | 53.42                   | 39.76                         | 9.91                   | 56.96                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15540                | 46.08               | -27.92                  | 74                          | 51.46                   | 38.62                         | 12.65                  | 56.65                      | 100                  | 0                       | P                     | V             |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 47.11               | -21.09                  | 68.2                        | 54.2                    | 39.88                         | 9.95                   | 56.92                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15660                | 44.19               | -29.81                  | 74                          | 49.65                   | 38.33                         | 12.72                  | 56.51                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 10440                | 46.93               | -21.27                  | 68.2                        | 54.02                   | 39.88                         | 9.95                   | 56.92                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15660                | 44.67               | -29.33                  | 74                          | 50.13                   | 38.33                         | 12.72                  | 56.51                      | 100                  | 0                       | P                     | V             |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 47.22               | -20.98                  | 68.2                        | 54.19                   | 39.97                         | 9.97                   | 56.91                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15720                | 44.63               | -29.37                  | 74                          | 50.17                   | 38.16                         | 12.74                  | 56.44                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 10480                | 46.86               | -21.34                  | 68.2                        | 53.83                   | 39.97                         | 9.97                   | 56.91                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15720                | 44.6                | -29.4                   | 74                          | 50.14                   | 38.16                         | 12.74                  | 56.44                      | 100                  | 0                       | P                     | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

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

| WIFI<br>Ant.<br>1+2                 | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5150                 | 56.51               | -17.49                  | 74                          | 48.23                     | 31.69                         | 6.08                   | 29.49                      | 100                  | 84                      | P                       | H               |
|                                     |      | 5150                 | 48.18               | -5.82                   | 54                          | 39.9                      | 31.69                         | 6.08                   | 29.49                      | 100                  | 84                      | A                       | H               |
|                                     | *    | 5180                 | 115.25              | -                       | -                           | 106.93                    | 31.71                         | 6.1                    | 29.49                      | 100                  | 84                      | P                       | H               |
|                                     | *    | 5180                 | 107.33              | -                       | -                           | 99.01                     | 31.71                         | 6.1                    | 29.49                      | 100                  | 84                      | A                       | H               |
|                                     |      | 5148.98              | 53.58               | -20.42                  | 74                          | 45.3                      | 31.69                         | 6.08                   | 29.49                      | 382                  | 15                      | P                       | V               |
|                                     |      | 5150                 | 45.3                | -8.7                    | 54                          | 37.02                     | 31.69                         | 6.08                   | 29.49                      | 382                  | 15                      | A                       | V               |
|                                     | *    | 5180                 | 114.25              | -                       | -                           | 105.93                    | 31.71                         | 6.1                    | 29.49                      | 382                  | 15                      | P                       | V               |
|                                     | *    | 5180                 | 106.13              | -                       | -                           | 97.81                     | 31.71                         | 6.1                    | 29.49                      | 382                  | 15                      | A                       | V               |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5143.78              | 50.43               | -23.57                  | 74                          | 42.15                     | 31.69                         | 6.08                   | 29.49                      | 103                  | 83                      | P                       | H               |
|                                     |      | 5149.76              | 41.86               | -12.14                  | 54                          | 33.58                     | 31.69                         | 6.08                   | 29.49                      | 103                  | 83                      | A                       | H               |
|                                     | *    | 5220                 | 115.27              | -                       | -                           | 106.93                    | 31.73                         | 6.11                   | 29.5                       | 103                  | 83                      | P                       | H               |
|                                     | *    | 5220                 | 106.88              | -                       | -                           | 98.54                     | 31.73                         | 6.11                   | 29.5                       | 103                  | 83                      | A                       | H               |
|                                     |      | 5362.56              | 50.13               | -23.87                  | 74                          | 41.72                     | 31.82                         | 6.12                   | 29.53                      | 103                  | 83                      | P                       | H               |
|                                     |      | 5453                 | 40.07               | -13.93                  | 54                          | 31.57                     | 31.87                         | 6.17                   | 29.54                      | 103                  | 83                      | A                       | H               |
|                                     |      | 5081.12              | 49.32               | -24.68                  | 74                          | 41.1                      | 31.65                         | 6.04                   | 29.47                      | 399                  | 15                      | P                       | V               |
|                                     |      | 5149.76              | 39.88               | -14.12                  | 54                          | 31.6                      | 31.69                         | 6.08                   | 29.49                      | 399                  | 15                      | A                       | V               |
|                                     | *    | 5220                 | 115.17              | -                       | -                           | 106.83                    | 31.73                         | 6.11                   | 29.5                       | 399                  | 15                      | P                       | V               |
|                                     | *    | 5220                 | 106.57              | -                       | -                           | 98.23                     | 31.73                         | 6.11                   | 29.5                       | 399                  | 15                      | A                       | V               |
|                                     |      | 5414.92              | 49.2                | -24.8                   | 74                          | 40.75                     | 31.85                         | 6.13                   | 29.53                      | 399                  | 15                      | P                       | V               |
|                                     |      | 5354.44              | 39.96               | -14.04                  | 54                          | 31.55                     | 31.81                         | 6.12                   | 29.52                      | 399                  | 15                      | A                       | V               |



|                                                                 |                                                                                             |         |        |        |    |        |       |      |       |     |    |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5147.22 | 50.94  | -23.06 | 74 | 42.66  | 31.69 | 6.08 | 29.49 | 100 | 60 | P | H |
|                                                                 |                                                                                             | 5149.94 | 41.07  | -12.93 | 54 | 32.79  | 31.69 | 6.08 | 29.49 | 100 | 60 | A | H |
|                                                                 | *                                                                                           | 5240    | 116.36 | -      | -  | 108.01 | 31.74 | 6.11 | 29.5  | 100 | 60 | P | H |
|                                                                 | *                                                                                           | 5240    | 107.96 | -      | -  | 99.61  | 31.74 | 6.11 | 29.5  | 100 | 60 | A | H |
|                                                                 |                                                                                             | 5354.4  | 49.9   | -24.1  | 74 | 41.49  | 31.81 | 6.12 | 29.52 | 100 | 60 | P | H |
|                                                                 |                                                                                             | 5350.08 | 41.54  | -12.46 | 54 | 33.13  | 31.81 | 6.12 | 29.52 | 100 | 60 | A | H |
|                                                                 |                                                                                             | 5045.9  | 50.36  | -23.64 | 74 | 42.17  | 31.63 | 6.03 | 29.47 | 140 | 22 | P | V |
|                                                                 |                                                                                             | 5149.26 | 40.15  | -13.85 | 54 | 31.87  | 31.69 | 6.08 | 29.49 | 140 | 22 | A | V |
|                                                                 | *                                                                                           | 5240    | 113.42 | -      | -  | 105.07 | 31.74 | 6.11 | 29.5  | 140 | 22 | P | V |
|                                                                 | *                                                                                           | 5240    | 105.73 | -      | -  | 97.38  | 31.74 | 6.11 | 29.5  | 140 | 22 | A | V |
|                                                                 |                                                                                             | 5356.56 | 48.56  | -25.44 | 74 | 40.15  | 31.81 | 6.12 | 29.52 | 140 | 22 | P | V |
|                                                                 |                                                                                             | 5350.08 | 40.52  | -13.48 | 54 | 32.11  | 31.81 | 6.12 | 29.52 | 140 | 22 | A | V |
| <b>Remark</b>                                                   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |    |   |   |



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

| WIFI<br>Ant.<br>1+2                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |                                                                                             | 10360                | 46.7                | -21.5                   | 68.2                        | 53.99                   | 39.76                         | 9.91                   | 56.96                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15540                | 44.3                | -29.7                   | 74                          | 49.68                   | 38.62                         | 12.65                  | 56.65                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10360                | 46.33               | -21.87                  | 68.2                        | 53.62                   | 39.76                         | 9.91                   | 56.96                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15540                | 45                  | -29                     | 74                          | 50.38                   | 38.62                         | 12.65                  | 56.65                      | 100                  | 0                       | P                     | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 46.29               | -21.91                  | 68.2                        | 53.38                   | 39.88                         | 9.95                   | 56.92                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15660                | 44.55               | -29.45                  | 74                          | 50.01                   | 38.33                         | 12.72                  | 56.51                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10440                | 48.8                | -19.4                   | 68.2                        | 55.89                   | 39.88                         | 9.95                   | 56.92                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15660                | 44.85               | -29.15                  | 74                          | 50.31                   | 38.33                         | 12.72                  | 56.51                      | 100                  | 0                       | P                     | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 46.54               | -21.66                  | 68.2                        | 53.51                   | 39.97                         | 9.97                   | 56.91                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15720                | 45.23               | -28.77                  | 74                          | 50.77                   | 38.16                         | 12.74                  | 56.44                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10480                | 46.98               | -21.22                  | 68.2                        | 53.95                   | 39.97                         | 9.97                   | 56.91                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15720                | 44.93               | -29.07                  | 74                          | 50.47                   | 38.16                         | 12.74                  | 56.44                      | 100                  | 0                       | P                     | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |                                                                                             | 5148.72              | 60.84               | -13.16                  | 74                          | 52.56                     | 31.69                         | 6.08                   | 29.49                      | 100                  | 82                      | P                       | H               |
|                                     |                                                                                             | 5149.76              | 52.7                | -1.3                    | 54                          | 44.42                     | 31.69                         | 6.08                   | 29.49                      | 100                  | 82                      | A                       | H               |
|                                     | *                                                                                           | 5190                 | 108.95              | -                       | -                           | 100.63                    | 31.71                         | 6.1                    | 29.49                      | 100                  | 82                      | P                       | H               |
|                                     | *                                                                                           | 5190                 | 102.02              | -                       | -                           | 93.7                      | 31.71                         | 6.1                    | 29.49                      | 100                  | 82                      | A                       | H               |
|                                     |                                                                                             | 5412.12              | 54.03               | -19.97                  | 74                          | 45.58                     | 31.85                         | 6.13                   | 29.53                      | 100                  | 82                      | P                       | H               |
|                                     |                                                                                             | 5412.68              | 47.12               | -6.88                   | 54                          | 38.67                     | 31.85                         | 6.13                   | 29.53                      | 100                  | 82                      | A                       | H               |
|                                     |                                                                                             | 5146.38              | 55.53               | -18.47                  | 74                          | 47.25                     | 31.69                         | 6.08                   | 29.49                      | 283                  | 13                      | P                       | V               |
|                                     |                                                                                             | 5150                 | 49.44               | -4.56                   | 54                          | 41.16                     | 31.69                         | 6.08                   | 29.49                      | 283                  | 13                      | A                       | V               |
|                                     | *                                                                                           | 5190                 | 108.8               | -                       | -                           | 100.48                    | 31.71                         | 6.1                    | 29.49                      | 283                  | 13                      | P                       | V               |
|                                     | *                                                                                           | 5190                 | 101.65              | -                       | -                           | 93.33                     | 31.71                         | 6.1                    | 29.49                      | 283                  | 13                      | A                       | V               |
|                                     |                                                                                             | 5412.68              | 53.35               | -20.65                  | 74                          | 44.9                      | 31.85                         | 6.13                   | 29.53                      | 283                  | 13                      | P                       | V               |
|                                     |                                                                                             | 5412.4               | 47.03               | -6.97                   | 54                          | 38.58                     | 31.85                         | 6.13                   | 29.53                      | 283                  | 13                      | A                       | V               |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 5147.68              | 52.64               | -21.36                  | 74                          | 44.36                     | 31.69                         | 6.08                   | 29.49                      | 107                  | 81                      | P                       | H               |
|                                     |                                                                                             | 5150                 | 45.69               | -8.31                   | 54                          | 37.41                     | 31.69                         | 6.08                   | 29.49                      | 107                  | 81                      | A                       | H               |
|                                     | *                                                                                           | 5230                 | 113.97              | -                       | -                           | 105.62                    | 31.74                         | 6.11                   | 29.5                       | 107                  | 81                      | P                       | H               |
|                                     | *                                                                                           | 5230                 | 105.77              | -                       | -                           | 97.42                     | 31.74                         | 6.11                   | 29.5                       | 107                  | 81                      | A                       | H               |
|                                     |                                                                                             | 5452.72              | 58.46               | -15.54                  | 74                          | 49.96                     | 31.87                         | 6.17                   | 29.54                      | 107                  | 81                      | P                       | H               |
|                                     |                                                                                             | 5452.44              | 51.09               | -2.91                   | 54                          | 42.59                     | 31.87                         | 6.17                   | 29.54                      | 107                  | 81                      | A                       | H               |
|                                     |                                                                                             | 5148.72              | 51.09               | -22.91                  | 74                          | 42.81                     | 31.69                         | 6.08                   | 29.49                      | 387                  | 13                      | P                       | V               |
|                                     |                                                                                             | 5150                 | 43.38               | -10.62                  | 54                          | 35.1                      | 31.69                         | 6.08                   | 29.49                      | 387                  | 13                      | A                       | V               |
|                                     | *                                                                                           | 5230                 | 112.87              | -                       | -                           | 104.52                    | 31.74                         | 6.11                   | 29.5                       | 387                  | 13                      | P                       | V               |
|                                     | *                                                                                           | 5230                 | 105.56              | -                       | -                           | 97.21                     | 31.74                         | 6.11                   | 29.5                       | 387                  | 13                      | A                       | V               |
|                                     |                                                                                             | 5453.56              | 55.22               | -18.78                  | 74                          | 46.72                     | 31.87                         | 6.17                   | 29.54                      | 387                  | 13                      | P                       | V               |
|                                     |                                                                                             | 5452.44              | 49.19               | -4.81                   | 54                          | 40.69                     | 31.87                         | 6.17                   | 29.54                      | 387                  | 13                      | 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 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |                                                                                             | 10380                | 46.01               | -22.19                  | 68.2                        | 53.25                   | 39.79                         | 9.92                   | 56.95                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15570                | 46.92               | -27.08                  | 74                          | 52.35                   | 38.53                         | 12.66                  | 56.62                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10380                | 46.36               | -21.84                  | 68.2                        | 53.6                    | 39.79                         | 9.92                   | 56.95                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15570                | 45.22               | -28.78                  | 74                          | 50.65                   | 38.53                         | 12.66                  | 56.62                      | 100                  | 0                       | P                     | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 10460                | 48.06               | -20.14                  | 68.2                        | 55.11                   | 39.91                         | 9.96                   | 56.92                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15690                | 44.56               | -29.44                  | 74                          | 50.07                   | 38.24                         | 12.72                  | 56.47                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10460                | 47.41               | -20.79                  | 68.2                        | 54.46                   | 39.91                         | 9.96                   | 56.92                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15690                | 43.94               | -30.06                  | 74                          | 49.45                   | 38.24                         | 12.72                  | 56.47                      | 100                  | 0                       | P                     | 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 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<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 |                                                                                             | 5148.46              | 57.71               | -16.29                  | 74                          | 49.43                   | 31.69                         | 6.08                   | 29.49                      | 102                  | 66                      | P                     | H             |
|                                       |                                                                                             | 5149.24              | 50.65               | -3.35                   | 54                          | 42.37                   | 31.69                         | 6.08                   | 29.49                      | 102                  | 66                      | A                     | H             |
|                                       | *                                                                                           | 5210                 | 105.69              | -                       | -                           | 97.35                   | 31.73                         | 6.11                   | 29.5                       | 102                  | 66                      | P                     | H             |
|                                       | *                                                                                           | 5210                 | 98.76               | -                       | -                           | 90.42                   | 31.73                         | 6.11                   | 29.5                       | 102                  | 66                      | A                     | H             |
|                                       |                                                                                             | 5371.24              | 49.04               | -24.96                  | 74                          | 40.63                   | 31.82                         | 6.12                   | 29.53                      | 102                  | 66                      | P                     | H             |
|                                       |                                                                                             | 5350.24              | 41.68               | -12.32                  | 54                          | 33.27                   | 31.81                         | 6.12                   | 29.52                      | 102                  | 66                      | A                     | H             |
|                                       |                                                                                             | 5138.58              | 53.31               | -20.69                  | 74                          | 45.03                   | 31.68                         | 6.08                   | 29.48                      | 154                  | 28                      | P                     | V             |
|                                       |                                                                                             | 5143.78              | 45.15               | -8.85                   | 54                          | 36.87                   | 31.69                         | 6.08                   | 29.49                      | 154                  | 28                      | A                     | V             |
|                                       | *                                                                                           | 5210                 | 103.37              | -                       | -                           | 95.03                   | 31.73                         | 6.11                   | 29.5                       | 154                  | 28                      | P                     | V             |
|                                       | *                                                                                           | 5210                 | 95.92               | -                       | -                           | 87.58                   | 31.73                         | 6.11                   | 29.5                       | 154                  | 28                      | A                     | V             |
|                                       |                                                                                             | 5426.12              | 49.53               | -24.47                  | 74                          | 41.07                   | 31.85                         | 6.15                   | 29.54                      | 154                  | 28                      | P                     | V             |
|                                       |                                                                                             | 5354.72              | 41.2                | -12.8                   | 54                          | 32.79                   | 31.81                         | 6.12                   | 29.52                      | 154                  | 28                      | 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+2 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<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            |                                                                                             | 10420                | 46.6                | -21.6                   | 68.2                        | 53.74                   | 39.85                         | 9.94                   | 56.93                      | 100                  | 0                       | P                     | H             |
| VHT80               |                                                                                             | 15630                | 45.81               | -28.19                  | 74                          | 51.28                   | 38.37                         | 12.7                   | 56.54                      | 100                  | 0                       | P                     | H             |
| CH 42               |                                                                                             | 10420                | 47.12               | -21.08                  | 68.2                        | 54.26                   | 39.85                         | 9.94                   | 56.93                      | 100                  | 0                       | P                     | V             |
| 5210MHz             |                                                                                             | 15630                | 46.24               | -27.76                  | 74                          | 51.71                   | 38.37                         | 12.7                   | 56.54                      | 100                  | 0                       | P                     | 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  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                         |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5067.32   | 50.61      | -23.39 | 74         | 42.4     | 31.64    | 6.04   | 29.47  | 257    | 306     | P       | H       |
|                             |      | 5144.84   | 39.92      | -14.08 | 54         | 31.64    | 31.69    | 6.08   | 29.49  | 257    | 306     | A       | H       |
|                             | *    | 5260      | 116.13     | -      | -          | 107.77   | 31.76    | 6.11   | 29.51  | 257    | 306     | P       | H       |
|                             | *    | 5260      | 108.18     | -      | -          | 99.82    | 31.76    | 6.11   | 29.51  | 257    | 306     | A       | H       |
|                             |      | 5353.2    | 52.35      | -21.65 | 74         | 43.94    | 31.81    | 6.12   | 29.52  | 257    | 306     | P       | H       |
|                             |      | 5350.08   | 43.55      | -10.45 | 54         | 35.14    | 31.81    | 6.12   | 29.52  | 257    | 306     | A       | H       |
|                             |      | 5102      | 51.05      | -22.95 | 74         | 42.81    | 31.66    | 6.06   | 29.48  | 391    | 2       | P       | V       |
|                             |      | 5149.94   | 39.29      | -14.71 | 54         | 31.01    | 31.69    | 6.08   | 29.49  | 391    | 2       | A       | V       |
|                             | *    | 5260      | 112.36     | -      | -          | 104      | 31.76    | 6.11   | 29.51  | 391    | 2       | P       | V       |
|                             | *    | 5260      | 104.54     | -      | -          | 96.18    | 31.76    | 6.11   | 29.51  | 391    | 2       | A       | V       |
|                             |      | 5377.44   | 49.1       | -24.9  | 74         | 40.69    | 31.82    | 6.12   | 29.53  | 391    | 2       | P       | V       |
|                             |      | 5350.08   | 39.52      | -14.48 | 54         | 31.11    | 31.81    | 6.12   | 29.52  | 391    | 2       | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5011.56   | 49.51      | -24.49 | 74         | 41.35    | 31.61    | 6.01   | 29.46  | 266    | 307     | P       | H       |
|                             |      | 5145.86   | 39.36      | -14.64 | 54         | 31.08    | 31.69    | 6.08   | 29.49  | 266    | 307     | A       | H       |
|                             | *    | 5300      | 116.56     | -      | -          | 108.18   | 31.78    | 6.11   | 29.51  | 266    | 307     | P       | H       |
|                             | *    | 5300      | 108.39     | -      | -          | 100.01   | 31.78    | 6.11   | 29.51  | 266    | 307     | A       | H       |
|                             |      | 5350.8    | 56.56      | -17.44 | 74         | 48.15    | 31.81    | 6.12   | 29.52  | 266    | 307     | P       | H       |
|                             |      | 5350.32   | 46.99      | -7.01  | 54         | 38.58    | 31.81    | 6.12   | 29.52  | 266    | 307     | A       | H       |
|                             |      | 5074.46   | 49.24      | -24.76 | 74         | 41.02    | 31.65    | 6.04   | 29.47  | 385    | 11      | P       | V       |
|                             |      | 5057.12   | 39.2       | -14.8  | 54         | 31       | 31.64    | 6.03   | 29.47  | 385    | 11      | A       | V       |
|                             | *    | 5300      | 113.43     | -      | -          | 105.05   | 31.78    | 6.11   | 29.51  | 385    | 11      | P       | V       |
|                             | *    | 5300      | 104.88     | -      | -          | 96.5     | 31.78    | 6.11   | 29.51  | 385    | 11      | A       | V       |
|                             |      | 5354.4    | 50.7       | -23.3  | 74         | 42.29    | 31.81    | 6.12   | 29.52  | 385    | 11      | P       | V       |
|                             |      | 5350.08   | 42.4       | -11.6  | 54         | 33.99    | 31.81    | 6.12   | 29.52  | 385    | 11      | A       | V       |



|                                                  |                                                                                                                                                  |         |        |        |    |        |       |      |       |     |     |   |   |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                                                                                | 5320    | 116.31 | -      | -  | 107.92 | 31.79 | 6.12 | 29.52 | 264 | 306 | P | H |
|                                                  | *                                                                                                                                                | 5320    | 108.42 | -      | -  | 100.03 | 31.79 | 6.12 | 29.52 | 264 | 306 | A | H |
|                                                  |                                                                                                                                                  | 5352.32 | 57.54  | -16.46 | 74 | 49.13  | 31.81 | 6.12 | 29.52 | 264 | 306 | P | H |
|                                                  |                                                                                                                                                  | 5350.08 | 48.29  | -5.71  | 54 | 39.88  | 31.81 | 6.12 | 29.52 | 264 | 306 | A | H |
|                                                  | *                                                                                                                                                | 5320    | 114.36 | -      | -  | 105.97 | 31.79 | 6.12 | 29.52 | 381 | 10  | P | V |
|                                                  | *                                                                                                                                                | 5320    | 106.48 | -      | -  | 98.09  | 31.79 | 6.12 | 29.52 | 381 | 10  | A | V |
|                                                  |                                                                                                                                                  | 5357.92 | 53.62  | -20.38 | 74 | 45.21  | 31.81 | 6.12 | 29.52 | 381 | 10  | P | V |
|                                                  |                                                                                                                                                  | 5351.52 | 45.28  | -8.72  | 54 | 36.87  | 31.81 | 6.12 | 29.52 | 381 | 10  | A | V |
| <b>Remark</b>                                    | <ol style="list-style-type: none"><li>1. No other spurious found.</li><li>2. All results are PASS against Peak and Average limit line.</li></ol> |         |        |        |    |        |       |      |       |     |     |   |   |

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

| WIFI<br>Ant.<br>1+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<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                | 48.06               | -20.14                  | 68.2                        | 54.92                   | 40.02                         | 10                     | 56.88                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15780                | 45.79               | -28.21                  | 74                          | 51.33                   | 38.04                         | 12.78                  | 56.36                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 10520                | 47.66               | -20.54                  | 68.2                        | 54.52                   | 40.02                         | 10                     | 56.88                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15780                | 45.17               | -28.83                  | 74                          | 50.71                   | 38.04                         | 12.78                  | 56.36                      | 100                  | 0                       | P                     | V             |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 46.89               | -27.11                  | 74                          | 53.57                   | 40.1                          | 10.04                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15900                | 45.45               | -28.55                  | 74                          | 51.08                   | 37.75                         | 12.84                  | 56.22                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 10600                | 48.64               | -25.36                  | 74                          | 55.32                   | 40.1                          | 10.04                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15900                | 45.94               | -28.06                  | 74                          | 51.57                   | 37.75                         | 12.84                  | 56.22                      | 100                  | 0                       | P                     | V             |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 47.73               | -26.27                  | 74                          | 54.33                   | 40.14                         | 10.05                  | 56.79                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15960                | 44.85               | -29.15                  | 74                          | 50.55                   | 37.58                         | 12.87                  | 56.15                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 10640                | 48.34               | -25.66                  | 74                          | 54.94                   | 40.14                         | 10.05                  | 56.79                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15960                | 45.15               | -28.85                  | 74                          | 50.85                   | 37.58                         | 12.87                  | 56.15                      | 100                  | 0                       | P                     | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 2 5250~5350MHz

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

| WIFI<br>Ant.<br>1+2                 | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5120.36              | 50.32               | -23.68                  | 74                          | 42.06                     | 31.67                         | 6.07                   | 29.48                      | 100                  | 60                      | P                       | H               |
|                                     |      | 5149.94              | 40.18               | -13.82                  | 54                          | 31.9                      | 31.69                         | 6.08                   | 29.49                      | 100                  | 60                      | A                       | H               |
|                                     | *    | 5260                 | 115.24              | -                       | -                           | 106.88                    | 31.76                         | 6.11                   | 29.51                      | 100                  | 60                      | P                       | H               |
|                                     | *    | 5260                 | 107.49              | -                       | -                           | 99.13                     | 31.76                         | 6.11                   | 29.51                      | 100                  | 60                      | A                       | H               |
|                                     |      | 5350.08              | 50.75               | -23.25                  | 74                          | 42.34                     | 31.81                         | 6.12                   | 29.52                      | 100                  | 60                      | P                       | H               |
|                                     |      | 5350.32              | 42.52               | -11.48                  | 54                          | 34.11                     | 31.81                         | 6.12                   | 29.52                      | 100                  | 60                      | A                       | H               |
|                                     |      | 5015.64              | 50.16               | -23.84                  | 74                          | 42                        | 31.61                         | 6.01                   | 29.46                      | 173                  | 22                      | P                       | V               |
|                                     |      | 5144.84              | 39.6                | -14.4                   | 54                          | 31.32                     | 31.69                         | 6.08                   | 29.49                      | 173                  | 22                      | A                       | V               |
|                                     | *    | 5260                 | 114.34              | -                       | -                           | 105.98                    | 31.76                         | 6.11                   | 29.51                      | 173                  | 22                      | P                       | V               |
|                                     | *    | 5260                 | 105.8               | -                       | -                           | 97.44                     | 31.76                         | 6.11                   | 29.51                      | 173                  | 22                      | A                       | V               |
|                                     |      | 5360.64              | 50.69               | -23.31                  | 74                          | 42.27                     | 31.82                         | 6.12                   | 29.52                      | 173                  | 22                      | P                       | V               |
|                                     |      | 5350.08              | 41.5                | -12.5                   | 54                          | 33.09                     | 31.81                         | 6.12                   | 29.52                      | 173                  | 22                      | A                       | V               |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5038.76              | 51.24               | -22.76                  | 74                          | 43.06                     | 31.63                         | 6.02                   | 29.47                      | 106                  | 58                      | P                       | H               |
|                                     |      | 5068.68              | 39.51               | -14.49                  | 54                          | 31.3                      | 31.64                         | 6.04                   | 29.47                      | 106                  | 58                      | A                       | H               |
|                                     | *    | 5300                 | 115.52              | -                       | -                           | 107.14                    | 31.78                         | 6.11                   | 29.51                      | 106                  | 58                      | P                       | H               |
|                                     | *    | 5300                 | 107.56              | -                       | -                           | 99.18                     | 31.78                         | 6.11                   | 29.51                      | 106                  | 58                      | A                       | H               |
|                                     |      | 5357.52              | 54.43               | -19.57                  | 74                          | 46.02                     | 31.81                         | 6.12                   | 29.52                      | 106                  | 58                      | P                       | H               |
|                                     |      | 5350.08              | 45.82               | -8.18                   | 54                          | 37.41                     | 31.81                         | 6.12                   | 29.52                      | 106                  | 58                      | A                       | H               |
|                                     |      | 5060.52              | 49.98               | -24.02                  | 74                          | 41.78                     | 31.64                         | 6.03                   | 29.47                      | 163                  | 22                      | P                       | V               |
|                                     |      | 5062.9               | 39.32               | -14.68                  | 54                          | 31.12                     | 31.64                         | 6.03                   | 29.47                      | 163                  | 22                      | A                       | V               |
|                                     | *    | 5300                 | 113.64              | -                       | -                           | 105.26                    | 31.78                         | 6.11                   | 29.51                      | 163                  | 22                      | P                       | V               |
|                                     | *    | 5300                 | 105.9               | -                       | -                           | 97.52                     | 31.78                         | 6.11                   | 29.51                      | 163                  | 22                      | A                       | V               |
|                                     |      | 5357.76              | 53.27               | -20.73                  | 74                          | 44.86                     | 31.81                         | 6.12                   | 29.52                      | 163                  | 22                      | P                       | V               |
|                                     |      | 5350.32              | 44.28               | -9.72                   | 54                          | 35.87                     | 31.81                         | 6.12                   | 29.52                      | 163                  | 22                      | A                       | V               |



|                                                                 |                                                                                                                                                  |         |        |        |    |        |       |      |       |     |    |   |   |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                                                                                | 5320    | 115.24 | -      | -  | 106.85 | 31.79 | 6.12 | 29.52 | 100 | 52 | P | H |
|                                                                 | *                                                                                                                                                | 5320    | 106.99 | -      | -  | 98.6   | 31.79 | 6.12 | 29.52 | 100 | 52 | A | H |
|                                                                 |                                                                                                                                                  | 5354.08 | 56.54  | -17.46 | 74 | 48.13  | 31.81 | 6.12 | 29.52 | 100 | 52 | P | H |
|                                                                 |                                                                                                                                                  | 5352.48 | 46.58  | -7.42  | 54 | 38.17  | 31.81 | 6.12 | 29.52 | 100 | 52 | A | H |
|                                                                 | *                                                                                                                                                | 5320    | 114.07 | -      | -  | 105.68 | 31.79 | 6.12 | 29.52 | 332 | 13 | P | V |
|                                                                 | *                                                                                                                                                | 5320    | 106.1  | -      | -  | 97.71  | 31.79 | 6.12 | 29.52 | 332 | 13 | A | V |
|                                                                 |                                                                                                                                                  | 5369.76 | 55.53  | -18.47 | 74 | 47.12  | 31.82 | 6.12 | 29.53 | 332 | 13 | P | V |
|                                                                 |                                                                                                                                                  | 5350.08 | 45.25  | -8.75  | 54 | 36.84  | 31.81 | 6.12 | 29.52 | 332 | 13 | A | V |
| <b>Remark</b>                                                   | <ol style="list-style-type: none"><li>1. No other spurious found.</li><li>2. All results are PASS against Peak and Average limit line.</li></ol> |         |        |        |    |        |       |      |       |     |    |   |   |



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

| WIFI<br>Ant.<br>1+2                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 46.59               | -21.61                  | 68.2                        | 53.45                   | 40.02                         | 10                     | 56.88                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15780                | 44.74               | -29.26                  | 74                          | 50.28                   | 38.04                         | 12.78                  | 56.36                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10520                | 46.23               | -21.97                  | 68.2                        | 53.09                   | 40.02                         | 10                     | 56.88                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15780                | 44.56               | -29.44                  | 74                          | 50.1                    | 38.04                         | 12.78                  | 56.36                      | 100                  | 0                       | P                     | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 46.89               | -27.11                  | 74                          | 53.57                   | 40.1                          | 10.04                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15900                | 44.85               | -29.15                  | 74                          | 50.48                   | 37.75                         | 12.84                  | 56.22                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10600                | 46.49               | -27.51                  | 74                          | 53.17                   | 40.1                          | 10.04                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15900                | 44.85               | -29.15                  | 74                          | 50.48                   | 37.75                         | 12.84                  | 56.22                      | 100                  | 0                       | P                     | V             |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 47.14               | -26.86                  | 74                          | 53.74                   | 40.14                         | 10.05                  | 56.79                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15960                | 44.03               | -29.97                  | 74                          | 49.73                   | 37.58                         | 12.87                  | 56.15                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10640                | 48.69               | -25.31                  | 74                          | 55.29                   | 40.14                         | 10.05                  | 56.79                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15960                | 44.21               | -29.79                  | 74                          | 49.91                   | 37.58                         | 12.87                  | 56.15                      | 100                  | 0                       | P                     | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |                                                                                             | 5082.96              | 50.16               | -23.84                  | 74                          | 41.93                     | 31.65                         | 6.05                   | 29.47                      | 100                  | 56                      | P                       | H               |
|                                     |                                                                                             | 5149.6               | 42.18               | -11.82                  | 54                          | 33.9                      | 31.69                         | 6.08                   | 29.49                      | 100                  | 56                      | A                       | H               |
|                                     | *                                                                                           | 5270                 | 112.79              | -                       | -                           | 104.43                    | 31.76                         | 6.11                   | 29.51                      | 100                  | 56                      | P                       | H               |
|                                     | *                                                                                           | 5270                 | 105.94              | -                       | -                           | 97.58                     | 31.76                         | 6.11                   | 29.51                      | 100                  | 56                      | A                       | H               |
|                                     |                                                                                             | 5364.48              | 55.1                | -18.9                   | 74                          | 46.69                     | 31.82                         | 6.12                   | 29.53                      | 100                  | 56                      | P                       | H               |
|                                     |                                                                                             | 5351.76              | 47.59               | -6.41                   | 54                          | 39.18                     | 31.81                         | 6.12                   | 29.52                      | 100                  | 56                      | A                       | H               |
|                                     |                                                                                             | 5045.22              | 49.51               | -24.49                  | 74                          | 41.33                     | 31.63                         | 6.02                   | 29.47                      | 383                  | 8                       | P                       | V               |
|                                     |                                                                                             | 5047.26              | 41.98               | -12.02                  | 54                          | 33.79                     | 31.63                         | 6.03                   | 29.47                      | 383                  | 8                       | A                       | V               |
|                                     | *                                                                                           | 5270                 | 112.47              | -                       | -                           | 104.11                    | 31.76                         | 6.11                   | 29.51                      | 383                  | 8                       | P                       | V               |
|                                     | *                                                                                           | 5270                 | 105.08              | -                       | -                           | 96.72                     | 31.76                         | 6.11                   | 29.51                      | 383                  | 8                       | A                       | V               |
|                                     |                                                                                             | 5351.04              | 53.4                | -20.6                   | 74                          | 44.99                     | 31.81                         | 6.12                   | 29.52                      | 383                  | 8                       | P                       | V               |
|                                     |                                                                                             | 5350.32              | 45.52               | -8.48                   | 54                          | 37.11                     | 31.81                         | 6.12                   | 29.52                      | 383                  | 8                       | A                       | V               |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 5049.64              | 49.29               | -24.71                  | 74                          | 41.1                      | 31.63                         | 6.03                   | 29.47                      | 264                  | 308                     | P                       | H               |
|                                     |                                                                                             | 5087.72              | 41.42               | -12.58                  | 54                          | 33.2                      | 31.65                         | 6.05                   | 29.48                      | 264                  | 308                     | A                       | H               |
|                                     | *                                                                                           | 5310                 | 109.2               | -                       | -                           | 100.81                    | 31.79                         | 6.12                   | 29.52                      | 264                  | 308                     | P                       | H               |
|                                     | *                                                                                           | 5310                 | 102.16              | -                       | -                           | 93.77                     | 31.79                         | 6.12                   | 29.52                      | 264                  | 308                     | A                       | H               |
|                                     |                                                                                             | 5351.28              | 58.81               | -15.19                  | 74                          | 50.4                      | 31.81                         | 6.12                   | 29.52                      | 264                  | 308                     | P                       | H               |
|                                     |                                                                                             | 5351.28              | 51.6                | -2.4                    | 54                          | 43.19                     | 31.81                         | 6.12                   | 29.52                      | 264                  | 308                     | A                       | H               |
|                                     |                                                                                             | 5114.24              | 48.64               | -25.36                  | 74                          | 40.39                     | 31.67                         | 6.06                   | 29.48                      | 361                  | 2                       | P                       | V               |
|                                     |                                                                                             | 5076.16              | 40.99               | -13.01                  | 54                          | 32.77                     | 31.65                         | 6.04                   | 29.47                      | 361                  | 2                       | A                       | V               |
|                                     | *                                                                                           | 5310                 | 106.12              | -                       | -                           | 97.73                     | 31.79                         | 6.12                   | 29.52                      | 361                  | 2                       | P                       | V               |
|                                     | *                                                                                           | 5310                 | 98.39               | -                       | -                           | 90                        | 31.79                         | 6.12                   | 29.52                      | 361                  | 2                       | A                       | V               |
|                                     |                                                                                             | 5352                 | 54.67               | -19.33                  | 74                          | 46.26                     | 31.81                         | 6.12                   | 29.52                      | 361                  | 2                       | P                       | V               |
|                                     |                                                                                             | 5350.32              | 46.95               | -7.05                   | 54                          | 38.54                     | 31.81                         | 6.12                   | 29.52                      | 361                  | 2                       | 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 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |                                                                                             | 5494                 | 58.72               | -9.48                   | 68.2                        | 50.17                   | 31.89                         | 6.21                   | 29.55                      | 100                  | 56                      | P                     | H             |
|                                     |                                                                                             | 10540                | 48.44               | -19.76                  | 68.2                        | 55.27                   | 40.03                         | 10.01                  | 56.87                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15810                | 44.38               | -29.62                  | 74                          | 49.95                   | 37.96                         | 12.8                   | 56.33                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 5494                 | 56.03               | -12.17                  | 68.2                        | 47.48                   | 31.89                         | 6.21                   | 29.55                      | 383                  | 8                       | P                     | V             |
|                                     |                                                                                             | 10540                | 47.01               | -21.19                  | 68.2                        | 53.84                   | 40.03                         | 10.01                  | 56.87                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15810                | 46.33               | -27.67                  | 74                          | 51.9                    | 37.96                         | 12.8                   | 56.33                      | 100                  | 0                       | P                     | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 5536                 | 55.53               | -12.67                  | 68.2                        | 46.87                   | 31.95                         | 6.26                   | 29.55                      | 264                  | 308                     | P                     | H             |
|                                     |                                                                                             | 10620                | 48.07               | -25.93                  | 74                          | 54.71                   | 40.12                         | 10.04                  | 56.8                       | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15930                | 44.98               | -29.02                  | 74                          | 50.63                   | 37.67                         | 12.86                  | 56.18                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 10620                | 47.21               | -26.79                  | 74                          | 53.85                   | 40.12                         | 10.04                  | 56.8                       | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15930                | 45.17               | -28.83                  | 74                          | 50.82                   | 37.67                         | 12.86                  | 56.18                      | 100                  | 0                       | P                     | 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+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<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 |                                                                                             | 5053.38              | 50.58               | -23.42                  | 74                          | 42.39                     | 31.63                         | 6.03                   | 29.47                      | 100                  | 59                      | P                       | H               |
|                                       |                                                                                             | 5102                 | 41.35               | -12.65                  | 54                          | 33.11                     | 31.66                         | 6.06                   | 29.48                      | 100                  | 59                      | A                       | H               |
|                                       | *                                                                                           | 5290                 | 105.16              | -                       | -                           | 96.79                     | 31.77                         | 6.11                   | 29.51                      | 100                  | 59                      | P                       | H               |
|                                       | *                                                                                           | 5290                 | 97.63               | -                       | -                           | 89.26                     | 31.77                         | 6.11                   | 29.51                      | 100                  | 59                      | A                       | H               |
|                                       |                                                                                             | 5352.48              | 59.47               | -14.53                  | 74                          | 51.06                     | 31.81                         | 6.12                   | 29.52                      | 100                  | 59                      | P                       | H               |
|                                       |                                                                                             | 5352.24              | 52.72               | -1.28                   | 54                          | 44.31                     | 31.81                         | 6.12                   | 29.52                      | 100                  | 59                      | A                       | H               |
|                                       |                                                                                             | 5008.84              | 49.66               | -24.34                  | 74                          | 41.51                     | 31.61                         | 6                      | 29.46                      | 343                  | 3                       | P                       | V               |
|                                       |                                                                                             | 5110.5               | 41.1                | -12.9                   | 54                          | 32.85                     | 31.67                         | 6.06                   | 29.48                      | 343                  | 3                       | A                       | V               |
|                                       | *                                                                                           | 5290                 | 104.13              | -                       | -                           | 95.76                     | 31.77                         | 6.11                   | 29.51                      | 343                  | 3                       | P                       | V               |
|                                       | *                                                                                           | 5290                 | 96.3                | -                       | -                           | 87.93                     | 31.77                         | 6.11                   | 29.51                      | 343                  | 3                       | A                       | V               |
|                                       |                                                                                             | 5353.92              | 58.84               | -15.16                  | 74                          | 50.43                     | 31.81                         | 6.12                   | 29.52                      | 343                  | 3                       | P                       | V               |
|                                       |                                                                                             | 5353.44              | 50.69               | -3.31                   | 54                          | 42.28                     | 31.81                         | 6.12                   | 29.52                      | 343                  | 3                       | 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+2 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<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            |                                                                                             | 10580                | 46.61               | -21.59                  | 68.2                        | 53.33                   | 40.09                         | 10.03                  | 56.84                      | 100                  | 0                       | P                     | H             |
| VHT80               |                                                                                             | 15870                | 45.53               | -28.47                  | 74                          | 51.18                   | 37.79                         | 12.82                  | 56.26                      | 100                  | 0                       | P                     | H             |
| CH 58               |                                                                                             | 10580                | 48                  | -20.2                   | 68.2                        | 54.72                   | 40.09                         | 10.03                  | 56.84                      | 100                  | 0                       | P                     | V             |
| 5290MHz             |                                                                                             | 15870                | 45.2                | -28.8                   | 74                          | 50.85                   | 37.79                         | 12.82                  | 56.26                      | 100                  | 0                       | 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 802.11a (Band Edge @ 3m)

| WIFI                         | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                         |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                          |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 100<br>5500MHz |      | 5456.72   | 55.36      | -18.64 | 74         | 46.85    | 31.87    | 6.18   | 29.54  | 100    | 69      | P     | H     |
|                              |      | 5467.28   | 56.12      | -12.08 | 68.2       | 47.59    | 31.88    | 6.19   | 29.54  | 100    | 69      | P     | H     |
|                              |      | 5457.04   | 46.25      | -7.75  | 54         | 37.74    | 31.87    | 6.18   | 29.54  | 100    | 69      | A     | H     |
|                              | *    | 5500      | 116.18     | -      | -          | 107.61   | 31.9     | 6.22   | 29.55  | 100    | 69      | P     | H     |
|                              | *    | 5500      | 108.79     | -      | -          | 100.22   | 31.9     | 6.22   | 29.55  | 100    | 69      | A     | H     |
|                              |      | 5455.6    | 54.05      | -19.95 | 74         | 45.54    | 31.87    | 6.18   | 29.54  | 379    | 13      | P     | V     |
|                              |      | 5470      | 56.58      | -11.62 | 68.2       | 48.05    | 31.88    | 6.19   | 29.54  | 379    | 13      | P     | V     |
|                              |      | 5459.76   | 45.07      | -8.93  | 54         | 36.56    | 31.87    | 6.18   | 29.54  | 379    | 13      | A     | V     |
|                              | *    | 5500      | 115.18     | -      | -          | 106.61   | 31.9     | 6.22   | 29.55  | 379    | 13      | P     | V     |
|                              | *    | 5500      | 107.79     | -      | -          | 99.22    | 31.9     | 6.22   | 29.55  | 379    | 13      | A     | V     |
| 802.11a<br>CH 116<br>5580MHz |      | 5452.72   | 49.23      | -24.77 | 74         | 40.73    | 31.87    | 6.17   | 29.54  | 100    | 74      | P     | H     |
|                              |      | 5469.28   | 48.83      | -19.37 | 68.2       | 40.3     | 31.88    | 6.19   | 29.54  | 100    | 74      | P     | H     |
|                              |      | 5452.72   | 40.13      | -13.87 | 54         | 31.63    | 31.87    | 6.17   | 29.54  | 100    | 74      | A     | H     |
|                              | *    | 5580      | 116.56     | -      | -          | 107.81   | 32       | 6.3    | 29.55  | 100    | 74      | P     | H     |
|                              | *    | 5580      | 109.34     | -      | -          | 100.59   | 32       | 6.3    | 29.55  | 100    | 74      | A     | H     |
|                              |      | 5731.61   | 50.4       | -17.8  | 68.2       | 41.37    | 32.21    | 6.37   | 29.55  | 100    | 74      | P     | H     |
|                              |      | 5420.56   | 48.47      | -25.53 | 74         | 40.02    | 31.85    | 6.14   | 29.54  | 394    | 332     | P     | V     |
|                              |      | 5463.76   | 48.47      | -19.73 | 68.2       | 39.95    | 31.88    | 6.18   | 29.54  | 394    | 332     | P     | V     |
|                              |      | 5452.72   | 39.6       | -14.4  | 54         | 31.1     | 31.87    | 6.17   | 29.54  | 394    | 332     | A     | V     |
|                              | *    | 5580      | 113.87     | -      | -          | 105.12   | 32       | 6.3    | 29.55  | 394    | 332     | P     | V     |
|                              | *    | 5580      | 106.67     | -      | -          | 97.92    | 32       | 6.3    | 29.55  | 394    | 332     | A     | V     |
|                              |      | 5764.685  | 49.75      | -18.45 | 68.2       | 40.66    | 32.26    | 6.39   | 29.56  | 394    | 332     | P     | V     |



|                                       |                                                                                             |         |        |       |      |        |       |      |       |     |     |   |   |
|---------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 117.18 | -     | -    | 108.2  | 32.17 | 6.36 | 29.55 | 100 | 72  | P | H |
|                                       | *                                                                                           | 5700    | 109.84 | -     | -    | 100.86 | 32.17 | 6.36 | 29.55 | 100 | 72  | A | H |
|                                       |                                                                                             | 5725    | 60.78  | -7.42 | 68.2 | 51.75  | 32.21 | 6.37 | 29.55 | 100 | 72  | P | H |
|                                       | *                                                                                           | 5700    | 115.67 | -     | -    | 106.69 | 32.17 | 6.36 | 29.55 | 302 | 352 | P | V |
|                                       | *                                                                                           | 5700    | 107.68 | -     | -    | 98.7   | 32.17 | 6.36 | 29.55 | 302 | 352 | A | V |
|                                       |                                                                                             | 5725.08 | 59.12  | -9.08 | 68.2 | 50.09  | 32.21 | 6.37 | 29.55 | 302 | 352 | 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 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2          | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<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                | 47.35               | -26.65                  | 74                          | 53.13                     | 40.5                          | 10.22                  | 56.5                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 46.24               | -21.96                  | 68.2                        | 49.75                     | 39.4                          | 12.79                  | 55.7                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 11000                | 47.88               | -26.12                  | 74                          | 53.66                     | 40.5                          | 10.22                  | 56.5                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16500                | 47.26               | -20.94                  | 68.2                        | 50.77                     | 39.4                          | 12.79                  | 55.7                       | 100                  | 0                       | P                       | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 47.09               | -26.91                  | 74                          | 52.93                     | 40.3                          | 10.3                   | 56.44                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 47.55               | -20.65                  | 68.2                        | 51.01                     | 39.69                         | 12.74                  | 55.89                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 11160                | 47.33               | -26.67                  | 74                          | 53.17                     | 40.3                          | 10.3                   | 56.44                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16740                | 47.35               | -20.85                  | 68.2                        | 50.81                     | 39.69                         | 12.74                  | 55.89                      | 100                  | 0                       | P                       | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 46.98               | -27.02                  | 74                          | 52.88                     | 40.02                         | 10.42                  | 56.34                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 49.24               | -18.96                  | 68.2                        | 52.38                     | 40.36                         | 12.8                   | 56.3                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 11400                | 47.9                | -26.1                   | 74                          | 53.8                      | 40.02                         | 10.42                  | 56.34                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17100                | 48.78               | -19.42                  | 68.2                        | 51.92                     | 40.36                         | 12.8                   | 56.3                       | 100                  | 0                       | 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 802.11n HT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                  | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5459.44              | 54.68               | -19.32                  | 74                          | 46.17                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 76                      | P                       | H               |
|                                      |      | 5461.36              | 56.38               | -11.82                  | 68.2                        | 47.87                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 76                      | P                       | H               |
|                                      |      | 5460                 | 45.54               | -8.46                   | 54                          | 37.03                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 76                      | A                       | H               |
|                                      | *    | 5500                 | 115.81              | -                       | -                           | 107.24                    | 31.9                          | 6.22                   | 29.55                      | 100                  | 76                      | P                       | H               |
|                                      | *    | 5500                 | 107.92              | -                       | -                           | 99.35                     | 31.9                          | 6.22                   | 29.55                      | 100                  | 76                      | A                       | H               |
|                                      |      | 5459.28              | 54.12               | -19.88                  | 74                          | 45.61                     | 31.87                         | 6.18                   | 29.54                      | 379                  | 15                      | P                       | V               |
|                                      |      | 5467.28              | 54.41               | -13.79                  | 68.2                        | 45.88                     | 31.88                         | 6.19                   | 29.54                      | 379                  | 15                      | P                       | V               |
|                                      |      | 5460                 | 44.29               | -9.71                   | 54                          | 35.78                     | 31.87                         | 6.18                   | 29.54                      | 379                  | 15                      | A                       | V               |
|                                      | *    | 5500                 | 115.14              | -                       | -                           | 106.57                    | 31.9                          | 6.22                   | 29.55                      | 379                  | 15                      | P                       | V               |
|                                      | *    | 5500                 | 107.3               | -                       | -                           | 98.73                     | 31.9                          | 6.22                   | 29.55                      | 379                  | 15                      | A                       | V               |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5407.12              | 49.13               | -24.87                  | 74                          | 40.69                     | 31.84                         | 6.13                   | 29.53                      | 100                  | 75                      | P                       | H               |
|                                      |      | 5467.6               | 49.2                | -19                     | 68.2                        | 40.67                     | 31.88                         | 6.19                   | 29.54                      | 100                  | 75                      | P                       | H               |
|                                      |      | 5452.72              | 40.12               | -13.88                  | 54                          | 31.62                     | 31.87                         | 6.17                   | 29.54                      | 100                  | 75                      | A                       | H               |
|                                      | *    | 5580                 | 116.18              | -                       | -                           | 107.43                    | 32                            | 6.3                    | 29.55                      | 100                  | 75                      | P                       | H               |
|                                      | *    | 5580                 | 108.49              | -                       | -                           | 99.74                     | 32                            | 6.3                    | 29.55                      | 100                  | 75                      | A                       | H               |
|                                      |      | 5760.275             | 50.33               | -17.87                  | 68.2                        | 41.25                     | 32.26                         | 6.38                   | 29.56                      | 100                  | 75                      | P                       | H               |
|                                      |      | 5454.4               | 49.11               | -24.89                  | 74                          | 40.61                     | 31.87                         | 6.17                   | 29.54                      | 374                  | 335                     | P                       | V               |
|                                      |      | 5461.84              | 48.94               | -19.26                  | 68.2                        | 40.43                     | 31.87                         | 6.18                   | 29.54                      | 374                  | 335                     | P                       | V               |
|                                      |      | 5452.96              | 39.45               | -14.55                  | 54                          | 30.95                     | 31.87                         | 6.17                   | 29.54                      | 374                  | 335                     | A                       | V               |
|                                      | *    | 5580                 | 114.58              | -                       | -                           | 105.83                    | 32                            | 6.3                    | 29.55                      | 374                  | 335                     | P                       | V               |
|                                      | *    | 5580                 | 106.73              | -                       | -                           | 97.98                     | 32                            | 6.3                    | 29.55                      | 374                  | 335                     | A                       | V               |
|                                      |      | 5764.055             | 48.69               | -19.51                  | 68.2                        | 39.6                      | 32.26                         | 6.39                   | 29.56                      | 374                  | 335                     | P                       | V               |



|                                                                  |                                                                                             |         |        |       |      |        |       |      |       |     |    |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|--------|-------|------|-------|-----|----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 117.49 | -     | -    | 108.51 | 32.17 | 6.36 | 29.55 | 101 | 66 | P | H |
|                                                                  | *                                                                                           | 5700    | 109.28 | -     | -    | 100.3  | 32.17 | 6.36 | 29.55 | 101 | 66 | A | H |
|                                                                  |                                                                                             | 5725.08 | 61.63  | -6.57 | 68.2 | 52.6   | 32.21 | 6.37 | 29.55 | 101 | 66 | P | H |
|                                                                  | *                                                                                           | 5700    | 115.01 | -     | -    | 106.03 | 32.17 | 6.36 | 29.55 | 271 | 7  | P | V |
|                                                                  | *                                                                                           | 5700    | 106.99 | -     | -    | 98.01  | 32.17 | 6.36 | 29.55 | 271 | 7  | A | V |
|                                                                  |                                                                                             | 5725    | 62.98  | -5.22 | 68.2 | 53.95  | 32.21 | 6.37 | 29.55 | 271 | 7  | 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 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                  | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |                                                                                             | 11000                | 47.33               | -26.67                  | 74                          | 53.11                     | 40.5                          | 10.22                  | 56.5                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16500                | 46.18               | -22.02                  | 68.2                        | 49.69                     | 39.4                          | 12.79                  | 55.7                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 11000                | 46.62               | -27.38                  | 74                          | 52.4                      | 40.5                          | 10.22                  | 56.5                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16500                | 45.91               | -22.29                  | 68.2                        | 49.42                     | 39.4                          | 12.79                  | 55.7                       | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 46.63               | -27.37                  | 74                          | 52.47                     | 40.3                          | 10.3                   | 56.44                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16740                | 48.16               | -20.04                  | 68.2                        | 51.62                     | 39.69                         | 12.74                  | 55.89                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 11160                | 47.64               | -26.36                  | 74                          | 53.48                     | 40.3                          | 10.3                   | 56.44                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16740                | 48.66               | -19.54                  | 68.2                        | 52.12                     | 39.69                         | 12.74                  | 55.89                      | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 46.71               | -27.29                  | 74                          | 52.61                     | 40.02                         | 10.42                  | 56.34                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17100                | 48.53               | -19.67                  | 68.2                        | 51.67                     | 40.36                         | 12.8                   | 56.3                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 11400                | 48.18               | -25.82                  | 74                          | 54.08                     | 40.02                         | 10.42                  | 56.34                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17100                | 48.66               | -19.54                  | 68.2                        | 51.8                      | 40.36                         | 12.8                   | 56.3                       | 100                  | 0                       | 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 802.11n HT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                  | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5454.88              | 55.34               | -18.66                  | 74                          | 46.84                     | 31.87                         | 6.17                   | 29.54                      | 100                  | 50                      | P                       | H               |
|                                      |      | 5466.64              | 64.59               | -3.61                   | 68.2                        | 56.06                     | 31.88                         | 6.19                   | 29.54                      | 100                  | 50                      | P                       | H               |
|                                      |      | 5459.92              | 49.74               | -4.26                   | 54                          | 41.23                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 50                      | A                       | H               |
|                                      | *    | 5510                 | 112.51              | -                       | -                           | 103.93                    | 31.9                          | 6.23                   | 29.55                      | 100                  | 50                      | P                       | H               |
|                                      | *    | 5510                 | 104.21              | -                       | -                           | 95.63                     | 31.9                          | 6.23                   | 29.55                      | 100                  | 50                      | A                       | H               |
|                                      |      | 5733.185             | 58.52               | -9.68                   | 68.2                        | 49.49                     | 32.21                         | 6.37                   | 29.55                      | 100                  | 50                      | P                       | H               |
|                                      |      | 5451.52              | 55.49               | -18.51                  | 74                          | 46.99                     | 31.87                         | 6.17                   | 29.54                      | 373                  | 15                      | P                       | V               |
|                                      |      | 5469.76              | 61.14               | -7.06                   | 68.2                        | 52.61                     | 31.88                         | 6.19                   | 29.54                      | 373                  | 15                      | P                       | V               |
|                                      |      | 5459.68              | 48.03               | -5.97                   | 54                          | 39.52                     | 31.87                         | 6.18                   | 29.54                      | 373                  | 15                      | A                       | V               |
|                                      | *    | 5510                 | 112.25              | -                       | -                           | 103.67                    | 31.9                          | 6.23                   | 29.55                      | 373                  | 15                      | P                       | V               |
|                                      | *    | 5510                 | 104.55              | -                       | -                           | 95.97                     | 31.9                          | 6.23                   | 29.55                      | 373                  | 15                      | A                       | V               |
|                                      |      | 5734.13              | 54.91               | -13.29                  | 68.2                        | 45.88                     | 32.21                         | 6.37                   | 29.55                      | 373                  | 15                      | P                       | V               |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5455.36              | 52.72               | -21.28                  | 74                          | 44.21                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 50                      | P                       | H               |
|                                      |      | 5469.52              | 55.28               | -12.92                  | 68.2                        | 46.75                     | 31.88                         | 6.19                   | 29.54                      | 100                  | 50                      | P                       | H               |
|                                      |      | 5459.92              | 45.48               | -8.52                   | 54                          | 36.97                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 50                      | A                       | H               |
|                                      | *    | 5550                 | 114.51              | -                       | -                           | 105.82                    | 31.97                         | 6.27                   | 29.55                      | 100                  | 50                      | P                       | H               |
|                                      | *    | 5550                 | 107.1               | -                       | -                           | 98.41                     | 31.97                         | 6.27                   | 29.55                      | 100                  | 50                      | A                       | H               |
|                                      |      | 5745.47              | 52.06               | -16.14                  | 68.2                        | 42.99                     | 32.24                         | 6.38                   | 29.55                      | 100                  | 50                      | P                       | H               |
|                                      |      | 5452.48              | 52.28               | -21.72                  | 74                          | 43.78                     | 31.87                         | 6.17                   | 29.54                      | 389                  | 14                      | P                       | V               |
|                                      |      | 5466.88              | 52.23               | -15.97                  | 68.2                        | 43.7                      | 31.88                         | 6.19                   | 29.54                      | 389                  | 14                      | P                       | V               |
|                                      |      | 5454.16              | 43.98               | -10.02                  | 54                          | 35.48                     | 31.87                         | 6.17                   | 29.54                      | 389                  | 14                      | A                       | V               |
|                                      | *    | 5550                 | 114.68              | -                       | -                           | 105.99                    | 31.97                         | 6.27                   | 29.55                      | 389                  | 14                      | P                       | V               |
|                                      | *    | 5550                 | 105.92              | -                       | -                           | 97.23                     | 31.97                         | 6.27                   | 29.55                      | 389                  | 14                      | A                       | V               |
|                                      |      | 5760.59              | 50.01               | -18.19                  | 68.2                        | 40.93                     | 32.26                         | 6.38                   | 29.56                      | 389                  | 14                      | P                       | V               |



|                                                                  |                                                                                             |          |        |        |      |        |       |      |       |     |    |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|--------|--------|------|--------|-------|------|-------|-----|----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5448     | 51.33  | -22.67 | 74   | 42.83  | 31.87 | 6.17 | 29.54 | 100 | 20 | P | H |
|                                                                  |                                                                                             | 5469     | 47.92  | -20.28 | 68.2 | 39.39  | 31.88 | 6.19 | 29.54 | 100 | 20 | P | H |
|                                                                  |                                                                                             | 5446.6   | 45.27  | -8.73  | 54   | 36.77  | 31.87 | 6.17 | 29.54 | 100 | 20 | A | H |
|                                                                  | *                                                                                           | 5670     | 114.35 | -      | -    | 105.41 | 32.14 | 6.35 | 29.55 | 100 | 20 | P | H |
|                                                                  | *                                                                                           | 5670     | 106.32 | -      | -    | 97.38  | 32.14 | 6.35 | 29.55 | 100 | 20 | A | H |
|                                                                  |                                                                                             | 5730.035 | 61.3   | -6.9   | 68.2 | 52.27  | 32.21 | 6.37 | 29.55 | 100 | 20 | P | H |
|                                                                  |                                                                                             | 5416.15  | 48.79  | -25.21 | 74   | 40.33  | 31.85 | 6.14 | 29.53 | 299 | 4  | P | V |
|                                                                  |                                                                                             | 5462     | 47.59  | -20.61 | 68.2 | 39.08  | 31.87 | 6.18 | 29.54 | 299 | 4  | P | V |
|                                                                  |                                                                                             | 5445.9   | 41.39  | -12.61 | 54   | 32.89  | 31.87 | 6.17 | 29.54 | 299 | 4  | A | V |
|                                                                  | *                                                                                           | 5670     | 112.25 | -      | -    | 103.31 | 32.14 | 6.35 | 29.55 | 299 | 4  | P | V |
|                                                                  | *                                                                                           | 5670     | 104.9  | -      | -    | 95.96  | 32.14 | 6.35 | 29.55 | 299 | 4  | A | V |
|                                                                  |                                                                                             | 5728.775 | 57.89  | -10.31 | 68.2 | 48.86  | 32.21 | 6.37 | 29.55 | 299 | 4  | 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 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                  | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |                                                                                             | 11020                | 47.74               | -26.26                  | 74                          | 53.52                     | 40.48                         | 10.23                  | 56.49                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16530                | 47.76               | -20.44                  | 68.2                        | 51.25                     | 39.44                         | 12.79                  | 55.72                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 11020                | 47.47               | -26.53                  | 74                          | 53.25                     | 40.48                         | 10.23                  | 56.49                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16530                | 45.93               | -22.27                  | 68.2                        | 49.42                     | 39.44                         | 12.79                  | 55.72                      | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |                                                                                             | 5776                 | 59.78               | -8.42                   | 68.2                        | 50.66                     | 32.29                         | 6.39                   | 29.56                      | 100                  | 50                      | P                       | H               |
|                                      |                                                                                             | 11100                | 47.6                | -26.4                   | 74                          | 53.41                     | 40.38                         | 10.27                  | 56.46                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16650                | 46.66               | -21.54                  | 68.2                        | 50.12                     | 39.59                         | 12.77                  | 55.82                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 11100                | 47.78               | -26.22                  | 74                          | 53.59                     | 40.38                         | 10.27                  | 56.46                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16650                | 46.53               | -21.67                  | 68.2                        | 49.99                     | 39.59                         | 12.77                  | 55.82                      | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |                                                                                             | 5896                 | 56.91               | -11.29                  | 68.2                        | 47.53                     | 32.46                         | 6.48                   | 29.56                      | 100                  | 20                      | P                       | H               |
|                                      |                                                                                             | 11340                | 47.49               | -26.51                  | 74                          | 53.36                     | 40.1                          | 10.39                  | 56.36                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17010                | 47.7                | -20.5                   | 68.2                        | 51.06                     | 40.06                         | 12.7                   | 56.12                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 5896                 | 57.05               | -11.15                  | 68.2                        | 47.67                     | 32.46                         | 6.48                   | 29.56                      | 299                  | 4                       | P                       | V               |
|                                      |                                                                                             | 11340                | 47.07               | -26.93                  | 74                          | 52.94                     | 40.1                          | 10.39                  | 56.36                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17010                | 47.55               | -20.65                  | 68.2                        | 50.91                     | 40.06                         | 12.7                   | 56.12                      | 100                  | 0                       | 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 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<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 |                                                                                             | 5459.92              | 60.07               | -13.93                  | 74                          | 51.56                     | 31.87                         | 6.18                   | 29.54                      | 105                  | 56                      | P                       | H               |
|                                        |                                                                                             | 5468.56              | 62.55               | -5.65                   | 68.2                        | 54.02                     | 31.88                         | 6.19                   | 29.54                      | 105                  | 56                      | P                       | H               |
|                                        |                                                                                             | 5459.68              | 52.11               | -1.89                   | 54                          | 43.6                      | 31.87                         | 6.18                   | 29.54                      | 105                  | 56                      | A                       | H               |
|                                        | *                                                                                           | 5530                 | 109.77              | -                       | -                           | 101.15                    | 31.92                         | 6.25                   | 29.55                      | 105                  | 56                      | P                       | H               |
|                                        | *                                                                                           | 5530                 | 101.46              | -                       | -                           | 92.84                     | 31.92                         | 6.25                   | 29.55                      | 105                  | 56                      | A                       | H               |
|                                        |                                                                                             | 5744.525             | 51.02               | -17.18                  | 68.2                        | 41.95                     | 32.24                         | 6.38                   | 29.55                      | 105                  | 56                      | P                       | H               |
|                                        |                                                                                             | 5449.84              | 57.03               | -16.97                  | 74                          | 48.53                     | 31.87                         | 6.17                   | 29.54                      | 333                  | 0                       | P                       | V               |
|                                        |                                                                                             | 5468.08              | 61.66               | -6.54                   | 68.2                        | 53.13                     | 31.88                         | 6.19                   | 29.54                      | 333                  | 0                       | P                       | V               |
|                                        |                                                                                             | 5453.68              | 50.08               | -3.92                   | 54                          | 41.58                     | 31.87                         | 6.17                   | 29.54                      | 333                  | 0                       | A                       | V               |
|                                        | *                                                                                           | 5530                 | 109.31              | -                       | -                           | 100.69                    | 31.92                         | 6.25                   | 29.55                      | 333                  | 0                       | P                       | V               |
|                                        | *                                                                                           | 5530                 | 100.87              | -                       | -                           | 92.25                     | 31.92                         | 6.25                   | 29.55                      | 333                  | 0                       | A                       | V               |
|                                        |                                                                                             | 5760.275             | 49.73               | -18.47                  | 68.2                        | 40.65                     | 32.26                         | 6.38                   | 29.56                      | 333                  | 0                       | P                       | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5455.84              | 53.07               | -20.93                  | 74                          | 44.56                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 54                      | P                       | H               |
|                                        |                                                                                             | 5461.36              | 53.9                | -14.3                   | 68.2                        | 45.39                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 54                      | P                       | H               |
|                                        |                                                                                             | 5458.72              | 46.33               | -7.67                   | 54                          | 37.82                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 54                      | A                       | H               |
|                                        | *                                                                                           | 5610                 | 112.43              | -                       | -                           | 103.62                    | 32.04                         | 6.32                   | 29.55                      | 100                  | 54                      | P                       | H               |
|                                        | *                                                                                           | 5610                 | 103.36              | -                       | -                           | 94.55                     | 32.04                         | 6.32                   | 29.55                      | 100                  | 54                      | A                       | H               |
|                                        |                                                                                             | 5740.745             | 55.83               | -12.37                  | 68.2                        | 46.76                     | 32.24                         | 6.38                   | 29.55                      | 100                  | 54                      | P                       | H               |
|                                        |                                                                                             | 5457.52              | 52.55               | -21.45                  | 74                          | 44.04                     | 31.87                         | 6.18                   | 29.54                      | 306                  | 2                       | P                       | V               |
|                                        |                                                                                             | 5468.32              | 51.42               | -16.78                  | 68.2                        | 42.89                     | 31.88                         | 6.19                   | 29.54                      | 306                  | 2                       | P                       | V               |
|                                        |                                                                                             | 5457.28              | 44.87               | -9.13                   | 54                          | 36.36                     | 31.87                         | 6.18                   | 29.54                      | 306                  | 2                       | A                       | V               |
|                                        | *                                                                                           | 5610                 | 110.11              | -                       | -                           | 101.3                     | 32.04                         | 6.32                   | 29.55                      | 306                  | 2                       | P                       | V               |
|                                        | *                                                                                           | 5610                 | 102.62              | -                       | -                           | 93.81                     | 32.04                         | 6.32                   | 29.55                      | 306                  | 2                       | A                       | V               |
|                                        |                                                                                             | 5740.43              | 54.82               | -13.38                  | 68.2                        | 45.75                     | 32.24                         | 6.38                   | 29.55                      | 306                  | 2                       | 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+2 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<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            |                                                                                             | 11060                | 47.45               | -26.55                  | 74                          | 53.26                   | 40.42                         | 10.25                  | 56.48                      | 100                  | 0                       | P                     | H             |
| VHT80               |                                                                                             | 16590                | 46.88               | -21.32                  | 68.2                        | 50.38                   | 39.5                          | 12.77                  | 55.77                      | 100                  | 0                       | P                     | H             |
| CH 106              |                                                                                             | 11060                | 47.46               | -26.54                  | 74                          | 53.27                   | 40.42                         | 10.25                  | 56.48                      | 100                  | 0                       | P                     | V             |
| 5530MHz             |                                                                                             | 16590                | 47.63               | -20.57                  | 68.2                        | 51.13                   | 39.5                          | 12.77                  | 55.77                      | 100                  | 0                       | P                     | V             |
| 802.11ac            |                                                                                             | 11220                | 47.09               | -26.91                  | 74                          | 52.93                   | 40.24                         | 10.33                  | 56.41                      | 100                  | 0                       | P                     | H             |
| VHT80               |                                                                                             | 16830                | 46.58               | -21.62                  | 68.2                        | 50.02                   | 39.79                         | 12.73                  | 55.96                      | 100                  | 0                       | P                     | H             |
| CH 122              |                                                                                             | 11220                | 47.26               | -26.74                  | 74                          | 53.1                    | 40.24                         | 10.33                  | 56.41                      | 100                  | 0                       | P                     | V             |
| 5610MHz             |                                                                                             | 16830                | 46.99               | -21.21                  | 68.2                        | 50.43                   | 39.79                         | 12.73                  | 55.96                      | 100                  | 0                       | P                     | V             |
| Remark              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



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

| WIFI                                  | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                  |                                                                                             |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                                   |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| <b>802.11a<br/>CH 144<br/>5720MHz</b> |                                                                                             | 5445.94   | 48.54      | -25.46 | 74         | 40.04  | 31.87    | 6.17   | 29.54  | 100    | 71      | P     | H     |
|                                       |                                                                                             | 5464.66   | 47.6       | -20.6  | 68.2       | 39.08  | 31.88    | 6.18   | 29.54  | 100    | 71      | P     | H     |
|                                       |                                                                                             | 5452.96   | 39.17      | -14.83 | 54         | 30.67  | 31.87    | 6.17   | 29.54  | 100    | 71      | A     | H     |
|                                       | *                                                                                           | 5720      | 117.38     | -      | -          | 108.35 | 32.21    | 6.37   | 29.55  | 100    | 71      | P     | H     |
|                                       | *                                                                                           | 5720      | 109.67     | -      | -          | 100.64 | 32.21    | 6.37   | 29.55  | 100    | 71      | A     | H     |
|                                       |                                                                                             | 5896.5    | 51.66      | -16.54 | 68.2       | 42.28  | 32.46    | 6.48   | 29.56  | 100    | 71      | P     | H     |
|                                       |                                                                                             | 5435.8    | 48.61      | -25.39 | 74         | 40.13  | 31.86    | 6.16   | 29.54  | 316    | 353     | P     | V     |
|                                       |                                                                                             | 5467.39   | 49.13      | -19.07 | 68.2       | 40.6   | 31.88    | 6.19   | 29.54  | 316    | 353     | P     | V     |
|                                       |                                                                                             | 5452.96   | 38.98      | -15.02 | 54         | 30.48  | 31.87    | 6.17   | 29.54  | 316    | 353     | A     | V     |
|                                       | *                                                                                           | 5720      | 115.84     | -      | -          | 106.81 | 32.21    | 6.37   | 29.55  | 316    | 353     | P     | V     |
|                                       | *                                                                                           | 5720      | 107.89     | -      | -          | 98.86  | 32.21    | 6.37   | 29.55  | 316    | 353     | A     | V     |
|                                       |                                                                                             | 5878.5    | 50.78      | -17.42 | 68.2       | 41.45  | 32.43    | 6.46   | 29.56  | 316    | 353     | P     | 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 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2          | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<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 144<br>5720MHz |                                                                                             | 11440                | 47.38               | -26.62                  | 74                          | 53.29                   | 39.98                         | 10.43                  | 56.32                      | 100                  | 0                       | P                     | H             |
|                              |                                                                                             | 17160                | 48.89               | -19.31                  | 68.2                        | 51.85                   | 40.6                          | 12.86                  | 56.42                      | 100                  | 0                       | P                     | H             |
|                              |                                                                                             | 11440                | 46.48               | -27.52                  | 74                          | 52.39                   | 39.98                         | 10.43                  | 56.32                      | 100                  | 0                       | P                     | V             |
|                              |                                                                                             | 17160                | 47.97               | -20.23                  | 68.2                        | 50.93                   | 40.6                          | 12.86                  | 56.42                      | 100                  | 0                       | P                     | V             |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11n<br/>HT20<br/>CH 144<br/>5720MHz</b> |                                                                                             | 5459.2               | 48.64               | -25.36                  | 74                          | 40.13                   | 31.87                         | 6.18                   | 29.54                      | 102                  | 64                      | P                     | H             |
|                                                |                                                                                             | 5470                 | 47.35               | -20.85                  | 68.2                        | 38.82                   | 31.88                         | 6.19                   | 29.54                      | 102                  | 64                      | P                     | H             |
|                                                |                                                                                             | 5452.96              | 38.7                | -15.3                   | 54                          | 30.2                    | 31.87                         | 6.17                   | 29.54                      | 102                  | 64                      | A                     | H             |
|                                                | *                                                                                           | 5720                 | 116.86              | -                       | -                           | 107.83                  | 32.21                         | 6.37                   | 29.55                      | 102                  | 64                      | P                     | H             |
|                                                | *                                                                                           | 5720                 | 109.05              | -                       | -                           | 100.02                  | 32.21                         | 6.37                   | 29.55                      | 102                  | 64                      | A                     | H             |
|                                                |                                                                                             | 5851.5               | 51.98               | -16.22                  | 68.2                        | 42.72                   | 32.38                         | 6.44                   | 29.56                      | 102                  | 64                      | P                     | H             |
|                                                |                                                                                             | 5413.18              | 46.78               | -27.22                  | 74                          | 38.33                   | 31.85                         | 6.13                   | 29.53                      | 108                  | 16                      | P                     | V             |
|                                                |                                                                                             | 5460.76              | 47.83               | -20.37                  | 68.2                        | 39.32                   | 31.87                         | 6.18                   | 29.54                      | 108                  | 16                      | P                     | V             |
|                                                |                                                                                             | 5452.57              | 38.41               | -15.59                  | 54                          | 29.91                   | 31.87                         | 6.17                   | 29.54                      | 108                  | 16                      | P                     | V             |
|                                                | *                                                                                           | 5720                 | 108.41              | -                       | -                           | 99.38                   | 32.21                         | 6.37                   | 29.55                      | 108                  | 16                      | P                     | V             |
|                                                | *                                                                                           | 5720                 | 100.68              | -                       | -                           | 91.65                   | 32.21                         | 6.37                   | 29.55                      | 108                  | 16                      | A                     | V             |
|                                                |                                                                                             | 5851.5               | 49.14               | -19.06                  | 68.2                        | 39.88                   | 32.38                         | 6.44                   | 29.56                      | 108                  | 16                      | P                     | 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 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br><br>HT20<br><br>CH 144<br><br>5720MHz |                                                                                             | 11440                | 47.38               | -26.62                  | 74                          | 53.29                   | 39.98                         | 10.43                  | 56.32                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             | 17160                | 48.23               | -19.97                  | 68.2                        | 51.19                   | 40.6                          | 12.86                  | 56.42                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             | 11440                | 46.82               | -27.18                  | 74                          | 52.73                   | 39.98                         | 10.43                  | 56.32                      | 100                  | 0                       | P                     | V             |
|                                                  |                                                                                             | 17160                | 48.52               | -19.68                  | 68.2                        | 51.48                   | 40.6                          | 12.86                  | 56.42                      | 100                  | 0                       | P                     | V             |
| Remark                                           | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT40<br/>CH 142<br/>5710MHz</b> |                                                                                             | 5399.92              | 47.86               | -26.14                  | 74                          | 39.43                     | 31.84                         | 6.12                   | 29.53                      | 100                  | 47                      | P                       | H               |
|                                                |                                                                                             | 5462.32              | 47.89               | -20.31                  | 68.2                        | 39.38                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 47                      | P                       | H               |
|                                                |                                                                                             | 5458.42              | 40.74               | -13.26                  | 54                          | 32.23                     | 31.87                         | 6.18                   | 29.54                      | 100                  | 47                      | A                       | H               |
|                                                | *                                                                                           | 5710                 | 114.39              | -                       | -                           | 105.39                    | 32.19                         | 6.36                   | 29.55                      | 100                  | 47                      | P                       | H               |
|                                                | *                                                                                           | 5710                 | 107.07              | -                       | -                           | 98.07                     | 32.19                         | 6.36                   | 29.55                      | 100                  | 47                      | A                       | H               |
|                                                |                                                                                             | 5938                 | 52.91               | -15.29                  | 68.2                        | 43.46                     | 32.5                          | 6.51                   | 29.56                      | 100                  | 47                      | P                       | H               |
|                                                |                                                                                             | 5452.18              | 48.64               | -25.36                  | 74                          | 40.14                     | 31.87                         | 6.17                   | 29.54                      | 295                  | 5                       | P                       | V               |
|                                                |                                                                                             | 5461.93              | 47                  | -21.2                   | 68.2                        | 38.49                     | 31.87                         | 6.18                   | 29.54                      | 295                  | 5                       | P                       | V               |
|                                                |                                                                                             | 5452.57              | 41.6                | -12.4                   | 54                          | 33.1                      | 31.87                         | 6.17                   | 29.54                      | 295                  | 5                       | A                       | V               |
|                                                | *                                                                                           | 5710                 | 112.83              | -                       | -                           | 103.83                    | 32.19                         | 6.36                   | 29.55                      | 295                  | 5                       | P                       | V               |
|                                                | *                                                                                           | 5710                 | 105.14              | -                       | -                           | 96.14                     | 32.19                         | 6.36                   | 29.55                      | 295                  | 5                       | A                       | V               |
|                                                |                                                                                             | 5932.75              | 54.07               | -14.13                  | 68.2                        | 44.62                     | 32.5                          | 6.51                   | 29.56                      | 295                  | 5                       | P                       | 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 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br><br>HT40<br><br>CH 142<br><br>5710MHz |                                                                                             | 11420                | 47.07               | -26.93                  | 74                          | 52.98                     | 40                            | 10.42                  | 56.33                      | 100                  | 0                       | P                       | H               |
|                                                  |                                                                                             | 17130                | 48.1                | -20.1                   | 68.2                        | 51.14                     | 40.48                         | 12.84                  | 56.36                      | 100                  | 0                       | P                       | H               |
|                                                  |                                                                                             | 11420                | 46.82               | -27.18                  | 74                          | 52.73                     | 40                            | 10.42                  | 56.33                      | 100                  | 0                       | P                       | V               |
|                                                  |                                                                                             | 17130                | 48.13               | -20.07                  | 68.2                        | 51.17                     | 40.48                         | 12.84                  | 56.36                      | 100                  | 0                       | P                       | 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+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<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/>VHT80<br/>CH 138<br/>5690MHz</b> |                                                                                             | 5438.14              | 48.25               | -25.75                  | 74                          | 39.77                     | 31.86                         | 6.16                   | 29.54                      | 100                  | 55                      | P                       | H               |
|                                                  |                                                                                             | 5469.73              | 48.02               | -20.18                  | 68.2                        | 39.49                     | 31.88                         | 6.19                   | 29.54                      | 100                  | 55                      | P                       | H               |
|                                                  |                                                                                             | 5449.06              | 40.33               | -13.67                  | 54                          | 31.83                     | 31.87                         | 6.17                   | 29.54                      | 100                  | 55                      | A                       | H               |
|                                                  | *                                                                                           | 5690                 | 111.56              | -                       | -                           | 102.58                    | 32.17                         | 6.36                   | 29.55                      | 100                  | 55                      | P                       | H               |
|                                                  | *                                                                                           | 5690                 | 103.95              | -                       | -                           | 94.97                     | 32.17                         | 6.36                   | 29.55                      | 100                  | 55                      | A                       | H               |
|                                                  |                                                                                             | 5851.3               | 50.38               | -17.82                  | 68.2                        | 41.12                     | 32.38                         | 6.44                   | 29.56                      | 100                  | 55                      | P                       | H               |
|                                                  |                                                                                             | 5395.63              | 48.17               | -25.83                  | 74                          | 39.74                     | 31.84                         | 6.12                   | 29.53                      | 312                  | 0                       | P                       | V               |
|                                                  |                                                                                             | 5470                 | 47.47               | -20.73                  | 68.2                        | 38.94                     | 31.88                         | 6.19                   | 29.54                      | 312                  | 0                       | P                       | V               |
|                                                  |                                                                                             | 5457.25              | 40.18               | -13.82                  | 54                          | 31.67                     | 31.87                         | 6.18                   | 29.54                      | 312                  | 0                       | A                       | V               |
|                                                  | *                                                                                           | 5690                 | 109.8               | -                       | -                           | 100.82                    | 32.17                         | 6.36                   | 29.55                      | 312                  | 0                       | P                       | V               |
|                                                  | *                                                                                           | 5690                 | 102.54              | -                       | -                           | 93.56                     | 32.17                         | 6.36                   | 29.55                      | 312                  | 0                       | A                       | V               |
|                                                  |                                                                                             | 5891.8               | 50.36               | -17.84                  | 68.2                        | 40.99                     | 32.46                         | 6.47                   | 29.56                      | 312                  | 0                       | P                       | 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 VHT80 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<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            |                                                                                             | 11380                | 46.68               | -27.32                  | 74                          | 52.58                   | 40.04                         | 10.41                  | 56.35                      | 100                  | 0                       | P                     | H             |
| VHT80               |                                                                                             | 17070                | 47.63               | -20.57                  | 68.2                        | 50.86                   | 40.24                         | 12.77                  | 56.24                      | 100                  | 0                       | P                     | H             |
| CH 138              |                                                                                             | 11380                | 47.21               | -26.79                  | 74                          | 53.11                   | 40.04                         | 10.41                  | 56.35                      | 100                  | 0                       | P                     | V             |
| 5690MHz             |                                                                                             | 17070                | 47.93               | -20.27                  | 68.2                        | 51.16                   | 40.24                         | 12.77                  | 56.24                      | 100                  | 0                       | P                     | 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  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                    |                                                                            |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                     |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>LF |                                                                            | 42.61     | 23.53      | -16.47 | 40         | 37.38    | 17.92    | 0.49   | 32.29  | -      | -       | P       | H       |
|                         |                                                                            | 118.27    | 31.8       | -11.7  | 43.5       | 45.77    | 17.29    | 0.87   | 32.2   | 100    | 0       | P       | H       |
|                         |                                                                            | 135.73    | 25.2       | -18.3  | 43.5       | 39       | 17.37    | 0.93   | 32.18  | -      | -       | P       | H       |
|                         |                                                                            | 318.09    | 27.08      | -18.92 | 46         | 38.34    | 19.4     | 1.4    | 32.15  | -      | -       | P       | H       |
|                         |                                                                            | 562.53    | 28.61      | -17.39 | 46         | 32.84    | 25.95    | 1.94   | 32.21  | -      | -       | P       | H       |
|                         |                                                                            | 943.74    | 33.11      | -12.89 | 46         | 31.18    | 30.32    | 2.45   | 31.04  | -      | -       | P       | H       |
|                         |                                                                            | 40.67     | 32.78      | -7.22  | 40         | 45.68    | 18.87    | 0.48   | 32.29  | 100    | 0       | P       | V       |
|                         |                                                                            | 62.01     | 27.38      | -12.62 | 40         | 47.26    | 11.77    | 0.59   | 32.27  | -      | -       | P       | V       |
|                         |                                                                            | 112.45    | 24.14      | -19.36 | 43.5       | 38.51    | 16.92    | 0.84   | 32.2   | -      | -       | P       | V       |
|                         |                                                                            | 121.18    | 24.01      | -19.49 | 43.5       | 37.79    | 17.47    | 0.88   | 32.2   | -      | -       | P       | V       |
|                         |                                                                            | 899.12    | 33.2       | -12.8  | 46         | 33       | 29       | 2.44   | 31.41  | -      | -       | P       | V       |
|                         |                                                                            | 958.29    | 33.53      | -12.47 | 46         | 30.95    | 30.81    | 2.46   | 30.91  | -      | -       | P       | 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  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
 = Antenna Factor(dB/m) + Path 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) + Path 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”.



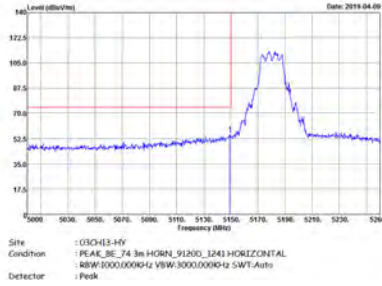
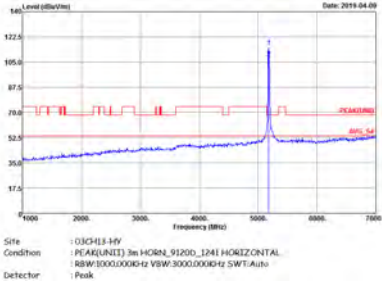
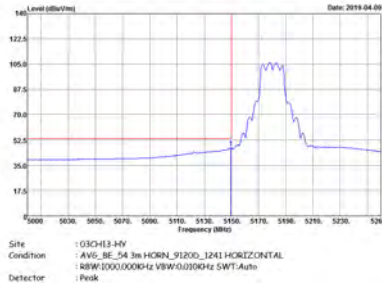
## Appendix D. Radiated Spurious Emission Plots

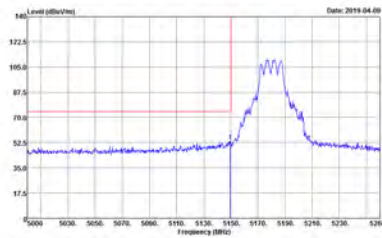
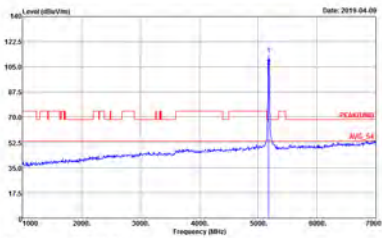
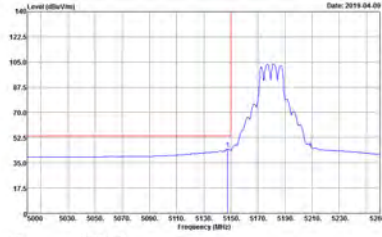
|                        |                                 |                            |         |
|------------------------|---------------------------------|----------------------------|---------|
| <b>Test Engineer :</b> | Alex Jheng, JC Liang, Wilson Wu | <b>Temperature :</b>       | 20~24°C |
|                        |                                 | <b>Relative Humidity :</b> | 50~55%  |

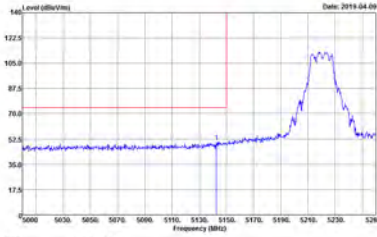
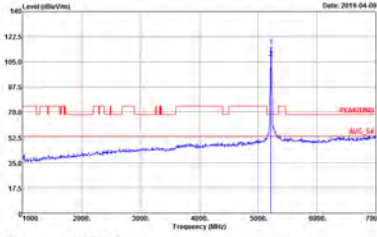
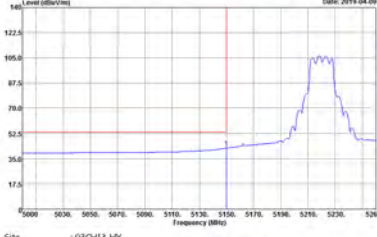
### Note symbol

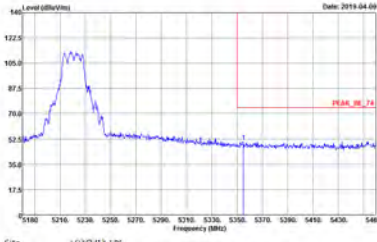
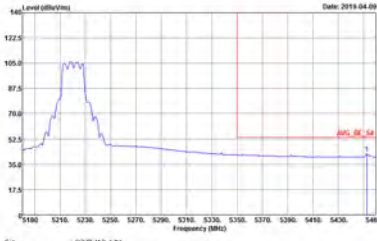
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

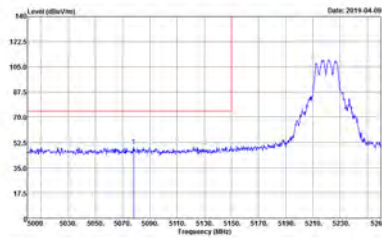
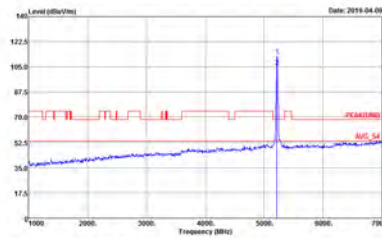
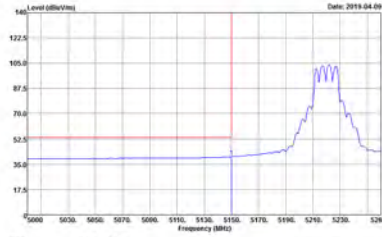
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |                                                                                     |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                |                                                                                     |
| 1+2  | Horizontal                                                                          | Fundamental                                                                         |
| Peak |   |  |
| Avg. |  | Left blank                                                                          |

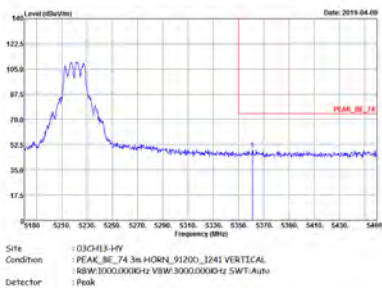
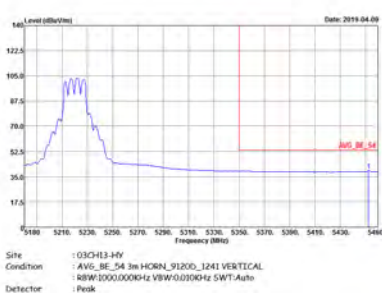
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                  |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |

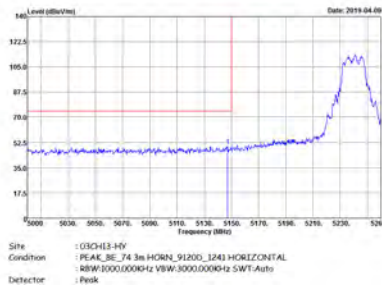
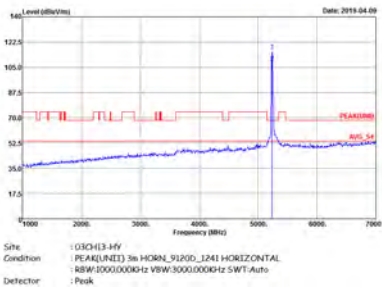
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                      |                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                |                                                                                                                                                                                         |
| 1+2  | Horizontal                                                                                                                                                                              | Fundamental                                                                                                                                                                             |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_ME_74 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(FUN1) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_ME_54 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                              |

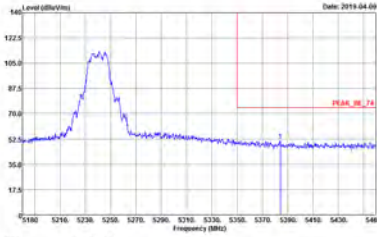
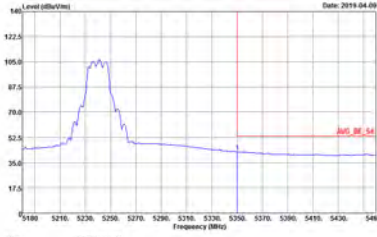
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                             |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_ME_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_ME_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

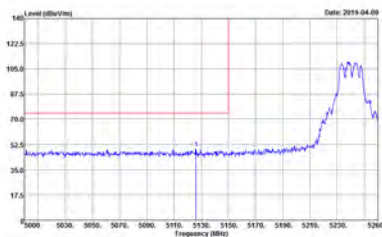
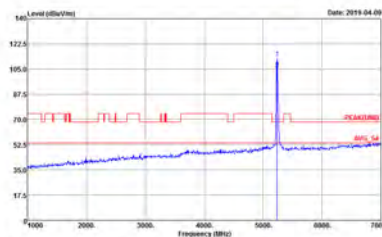
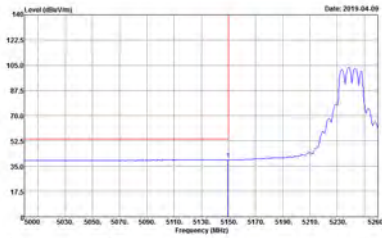
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                              |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |

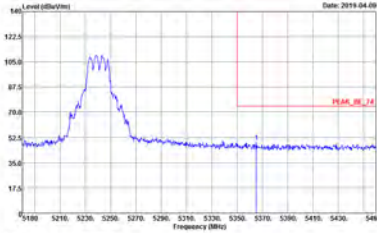
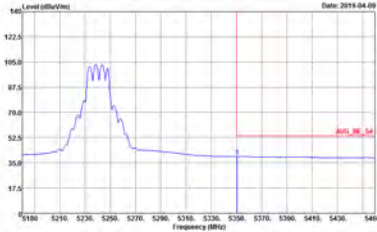


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                            |             |
| 1+2  | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                            |                                                                                    |
| 1+2  | Horizontal                                                                          | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |

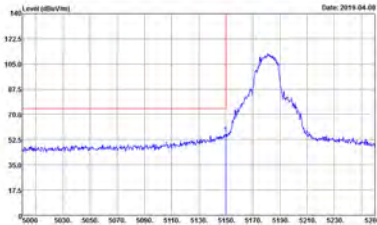
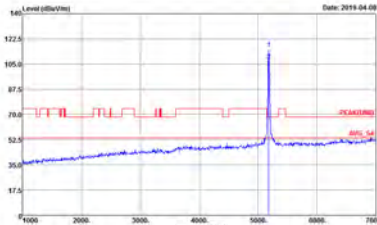
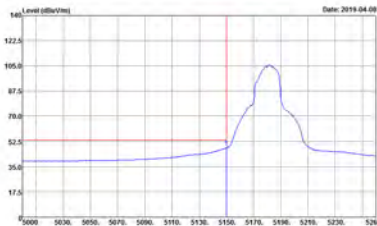
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                             |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_85_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_85_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

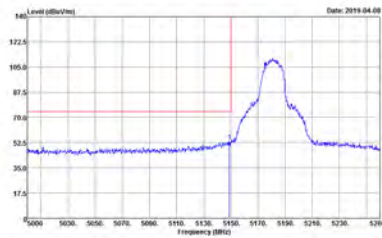
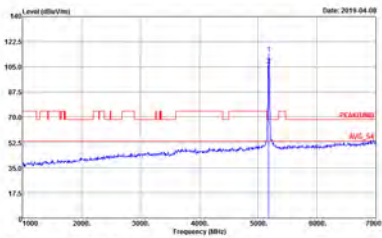
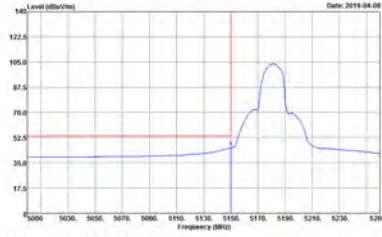
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                              |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |

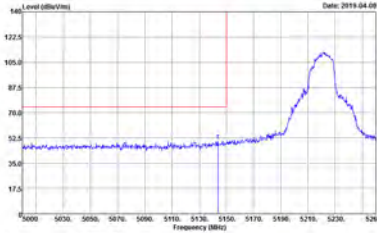
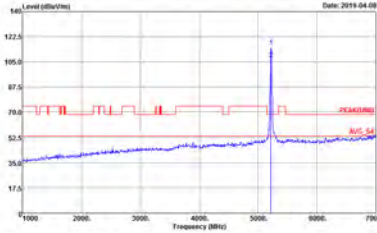
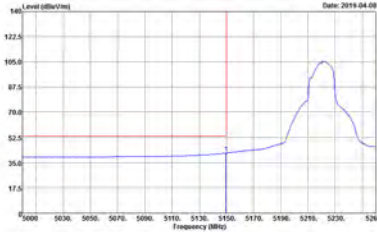
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                              |             |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1243 VERTICAL<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1243 VERTICAL<br/>Detector : Peak</p> | Left blank  |



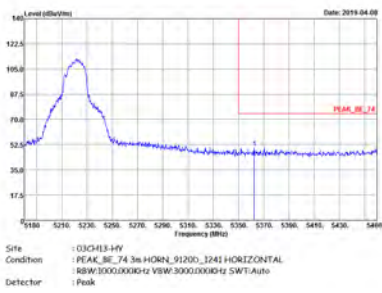
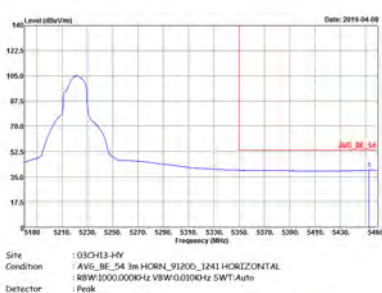
**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

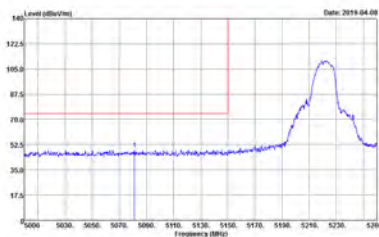
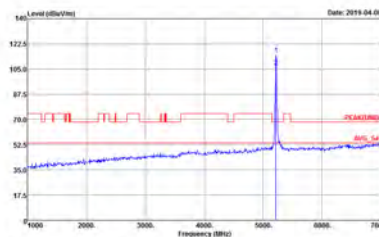
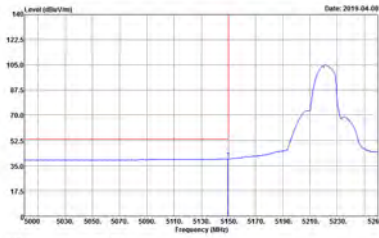
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                                           |                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>Detector : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>Detector : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto<br/>Peak</p>   | Left blank                                                                                                                                                                                                                           |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                                          |                                                                                                                                                                                                                                   |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH13-MY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-MY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                        |

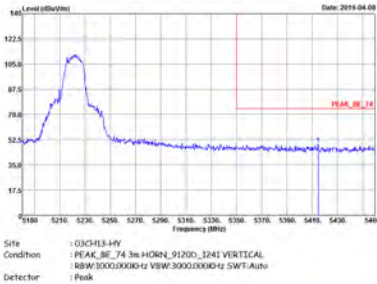
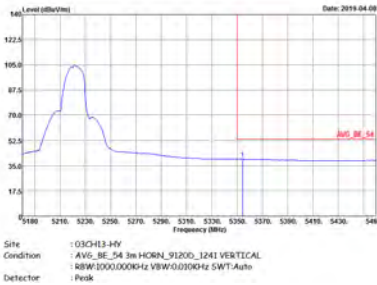
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                     |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - L                                                                                                                                                                                                       |                                                                                                                                                                                                                                     |
| 1+2  | Horizontal                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:0.0000Hz SWT:Auto<br/>Detector : Peak</p>   | Left blank                                                                                                                                                                                                                          |

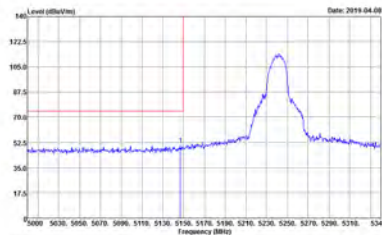
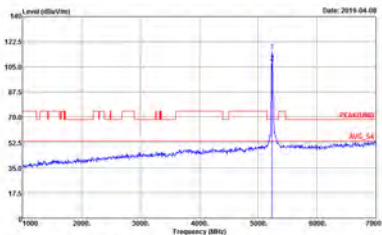
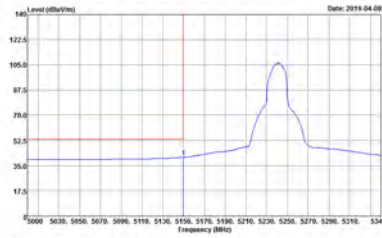


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH44 5220MHz - R                                                       |             |
| 1+2  | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

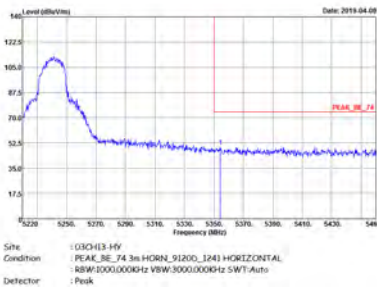
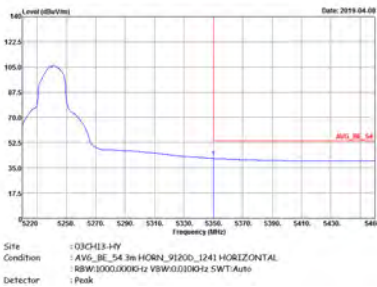
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - L                                                                                                                                                                                                      |                                                                                                                                                                                                                                   |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                        |

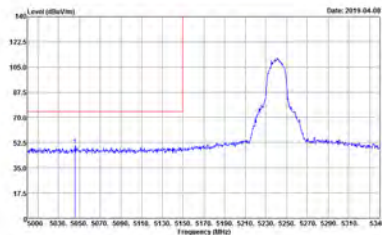
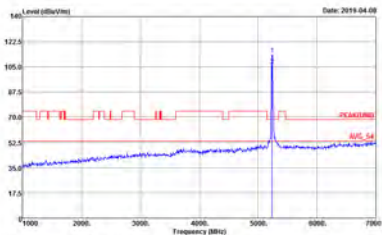
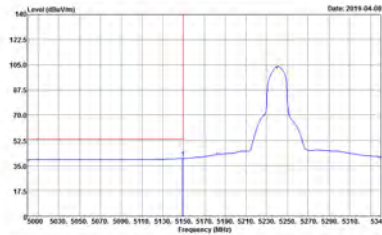


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH44 5220MHz - R                                                       |             |
| 1+2  | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

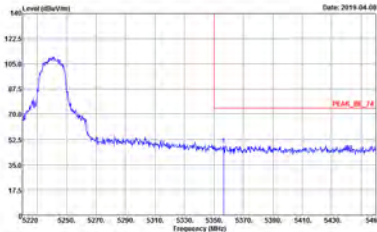
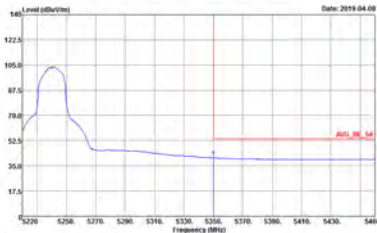
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                      |                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                                                                           |                                                                                                                                                                                         |
| 1+2  | Horizontal                                                                                                                                                                              | Fundamental                                                                                                                                                                             |
| Peak |  <p>Site : 03CH13-4V<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-4V<br/>Condition : PEAK(FUN1) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-4V<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                              |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                                                                                                                        |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:1000.000kHz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

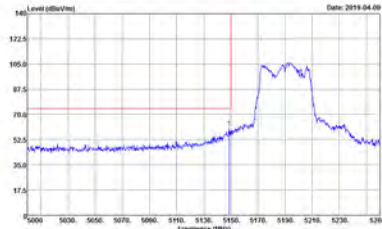
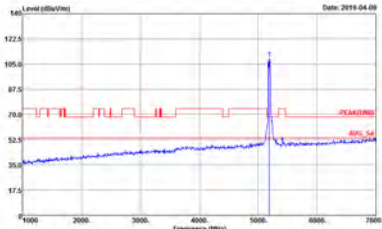
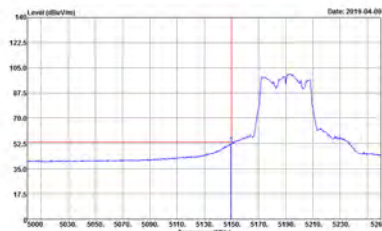
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                                                                         |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-MY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-MY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |



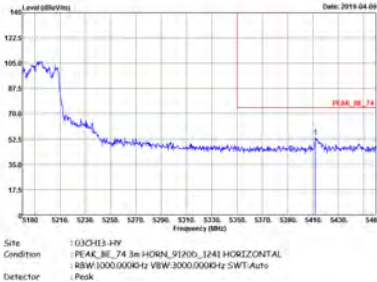
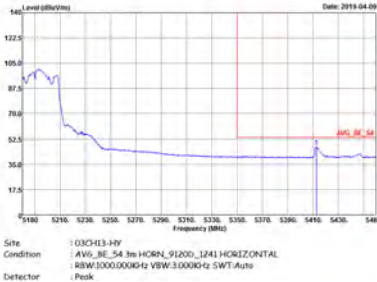
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                 |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                                                                                                                      |             |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

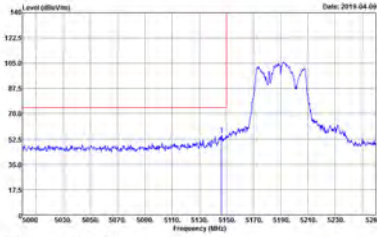
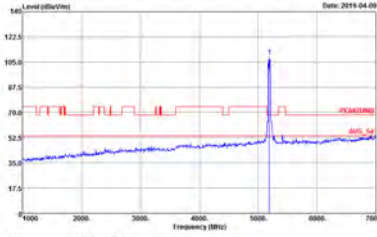
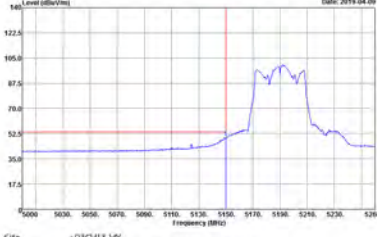


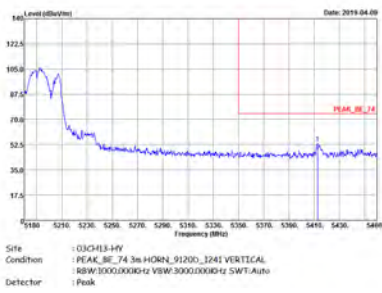
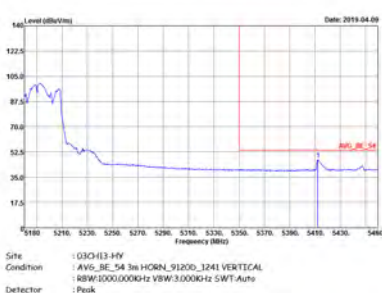
**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH38 5190MHz - L                                                                                                                                                                                                       |                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(FUND) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:3000.0000Hz VBW:3.0000Hz SWT:Auto<br/>Detector : Peak</p>   | Left blank                                                                                                                                                                                                                           |

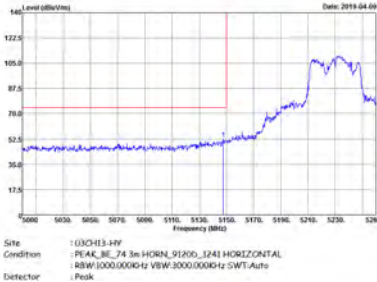
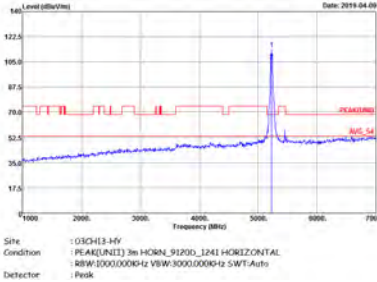
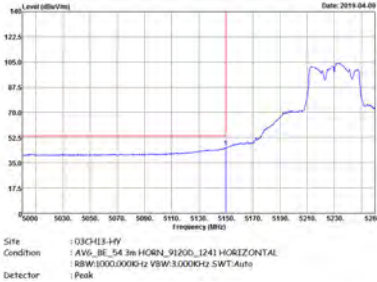


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH38 5190MHz - R                                                       |             |
| 1+2  | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

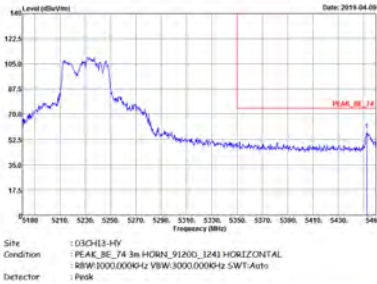
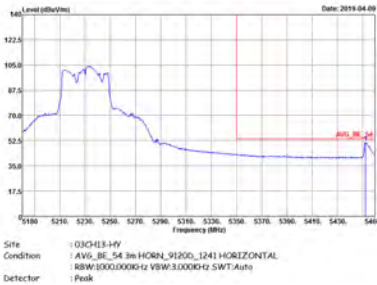
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH38 5190MHz - L                                                                                                                                                                                                      |                                                                                                                                                                                                                                    |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HY<br/>Condition : PEAK(FUND) 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                         |

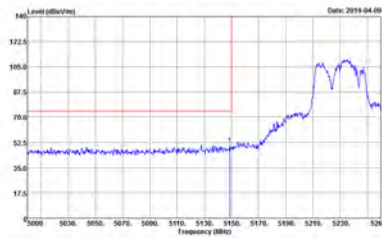
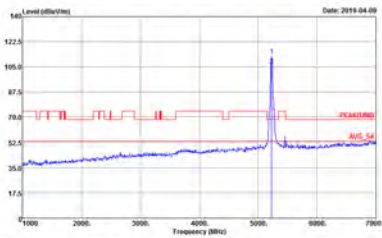
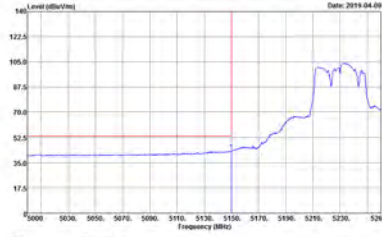
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH38 5190MHz - R                                                       |             |
| 1+2  | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |



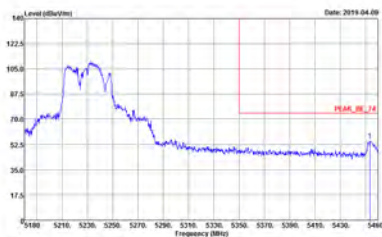
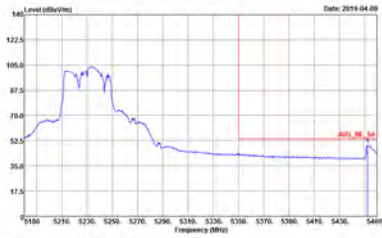
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - L                                                       |                                                                                    |
| 1+2  | Horizontal                                                                          | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |



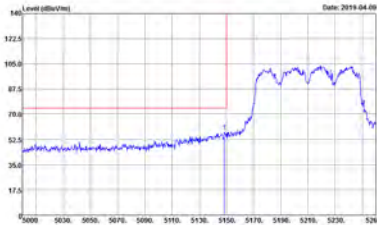
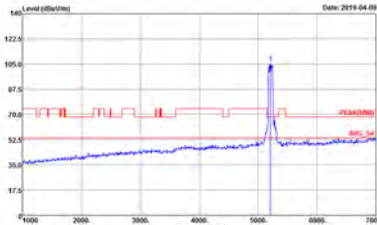
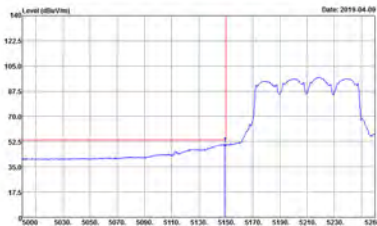
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                  |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH46 5230MHz - R                                                                                                                                                                                                       |             |
| 1+2  | Horizontal                                                                                                                                                                                                                          | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1243 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1243 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak</p>   | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - L                                                                                                                                                         |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-MY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-MY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |

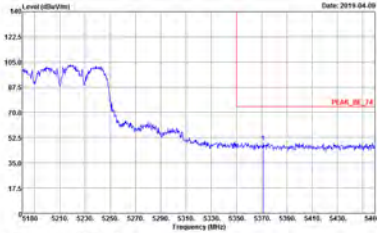
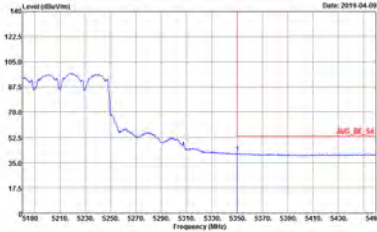


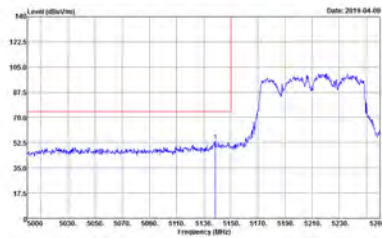
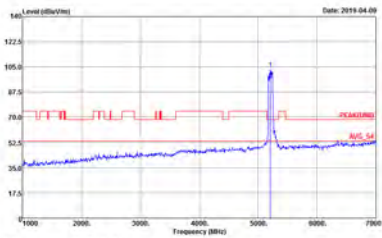
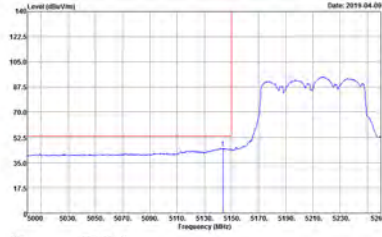
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH46 5230MHz - R                                                                                                                                                         |             |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank  |

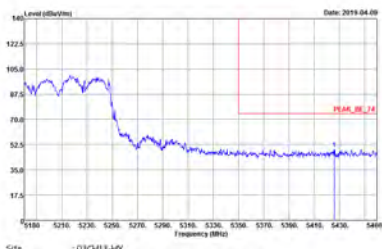
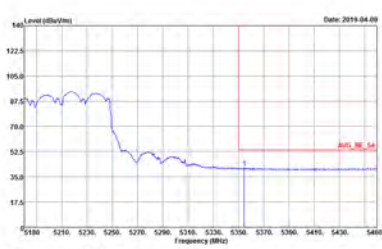
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                   |                                                                                                                                                                                                                                       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                                                                                      |                                                                                                                                                                                                                                       |
| 1+2         | Horizontal                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                           |
| <b>Peak</b> |  <p>Site : 03CH13-HV<br/> Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000Hz VBW:3000.000Hz SWT:Auto<br/> Detector : Peak</p> |  <p>Site : 03CH13-HV<br/> Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000Hz VBW:3000.000Hz SWT:Auto<br/> Detector : Peak</p> |
| <b>Avg.</b> |  <p>Site : 03CH13-HV<br/> Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000Hz VBW:3.000Hz SWT:Auto<br/> Detector : Peak</p>   | <b>Left blank</b>                                                                                                                                                                                                                     |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                      |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_85_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_85_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

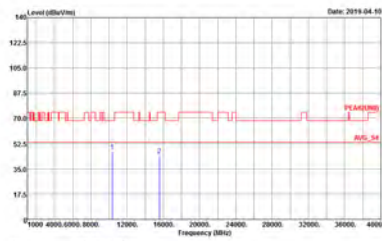
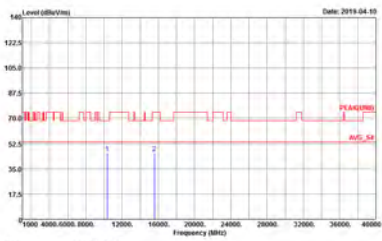
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                                       |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-MY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-MY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                 |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                    |             |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

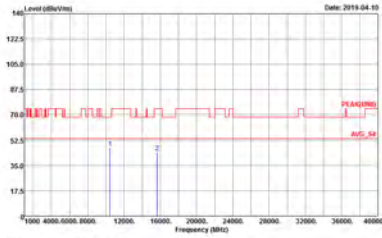
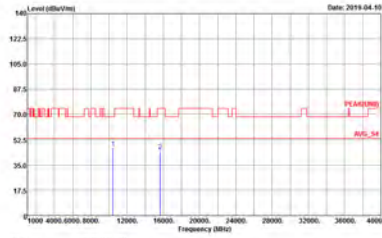


## Band 1 - 5150~5250MHz

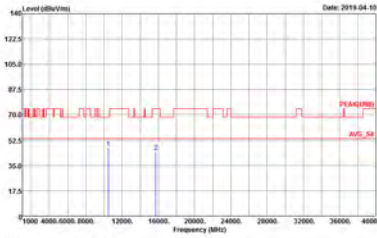
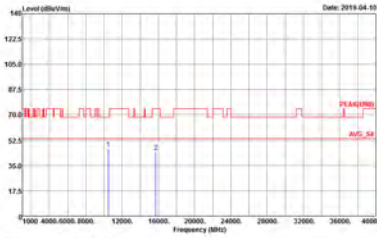
## WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



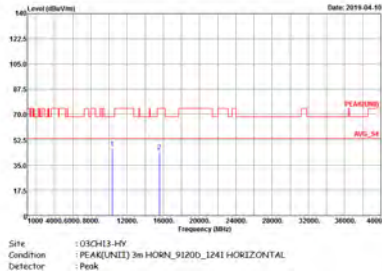
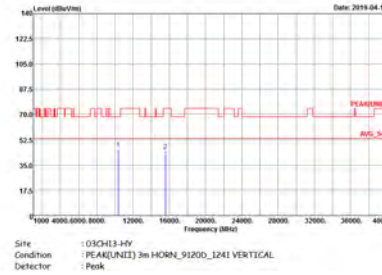
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH44 5220MHz                                                                                                                                                                   |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAR(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAR(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



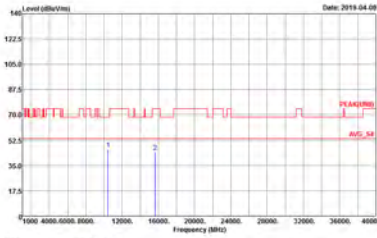
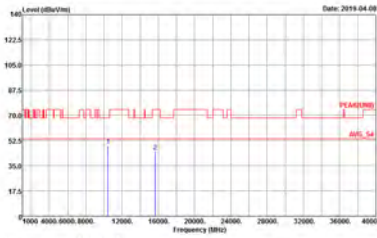
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : (3)CH13-HF<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : (3)CH13-HF<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



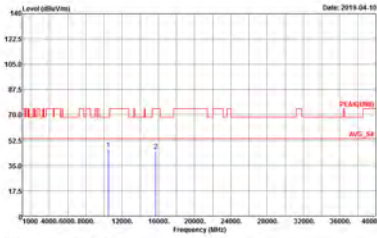
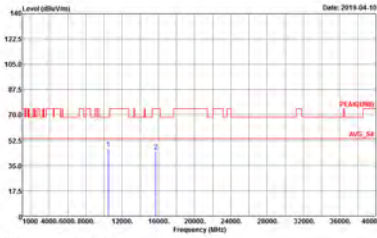
Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                  |                                                                                     |
|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH36 5180MHz                                                          |                                                                                     |
| 1+2          | Horizontal                                                                         | Vertical                                                                            |
| Peak<br>Avg. |  |  |



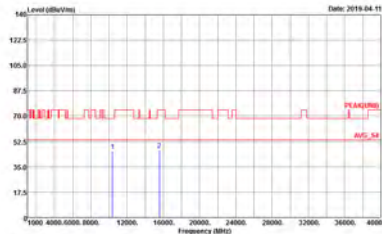
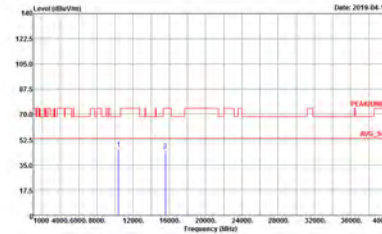
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH44 5220MHz                                                                                                                                                              |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



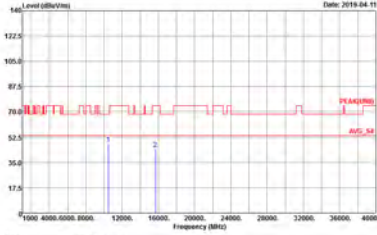
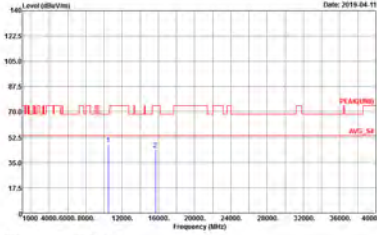
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH48 5240MHz                                                                                                                                                               |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : (0)CH13-HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : (0)CH13-HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



Band 1 5150~5250MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)

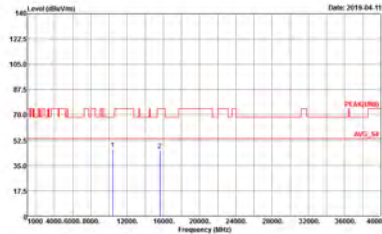
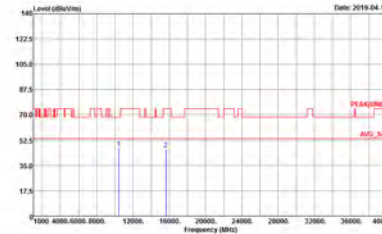
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH38 5190MHz                                                                                                                                                               |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-1HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-1HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH46 5230MHz                                                                                                                                                               |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : (3)CH13-HF<br/>Condition : PEAQ(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : (3)CH13-HF<br/>Condition : PEAQ(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |

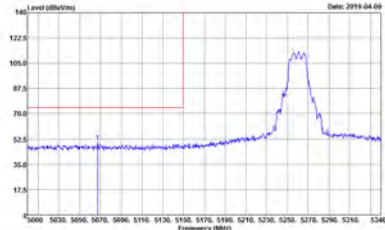
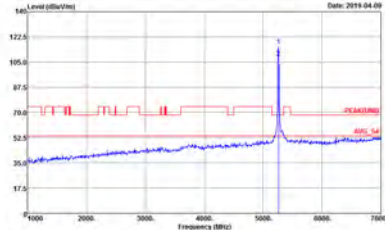
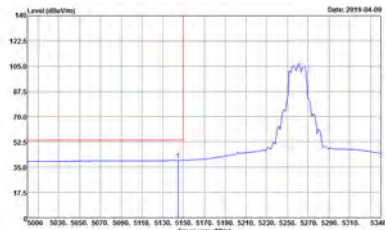


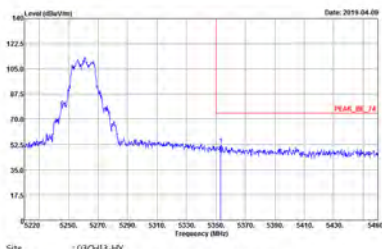
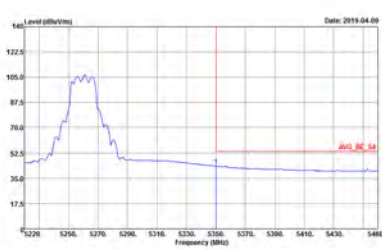
Band 1 5150~5250MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH42 5210MHz                                                                                                                                                             |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-4HF<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-4HF<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |

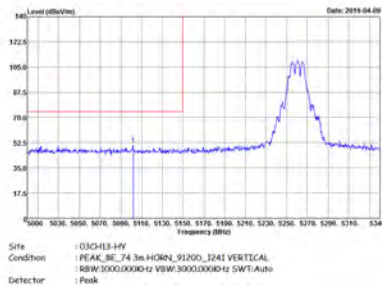
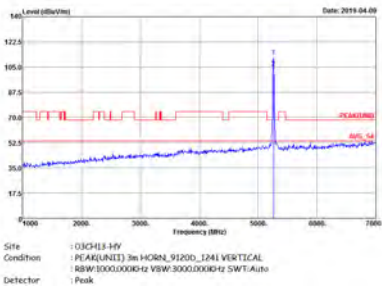
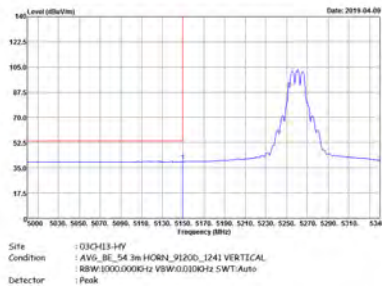


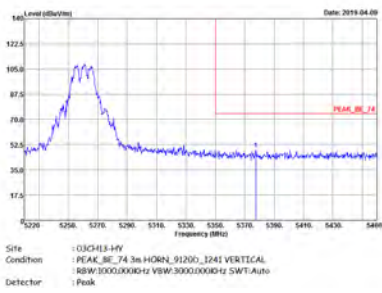
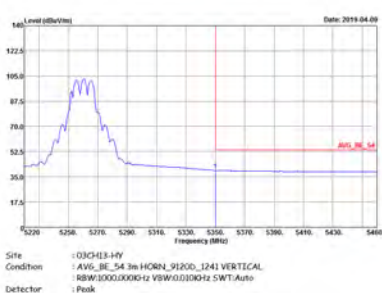
**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

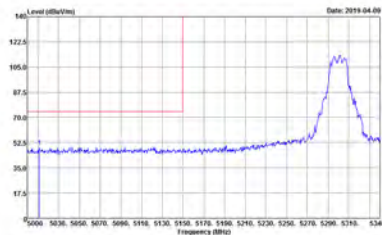
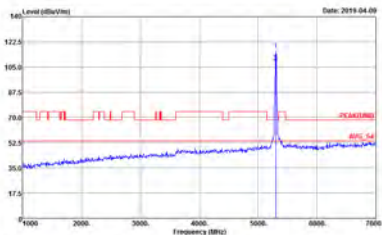
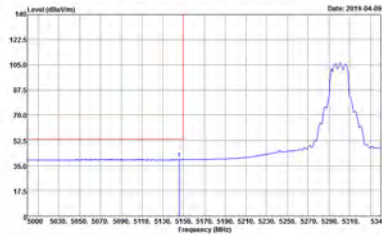
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                   |                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                             |                                                                                                                                                                                                                                       |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PE44_36_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PE44(LINE) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_36_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VSW:0.010kHz SWT:Auto<br/>Detector : Peak</p>    | Left blank                                                                                                                                                                                                                            |

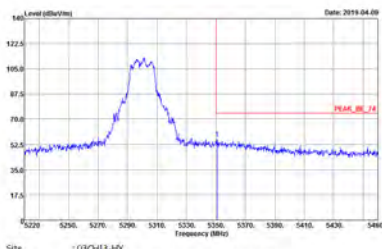
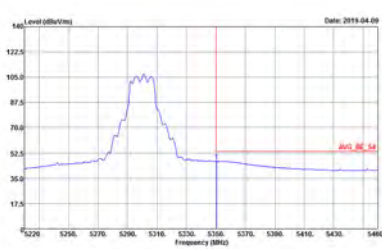
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                      |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                |             |
| 1+2  | Horizontal                                                                                                                                                                              | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> | Left blank  |

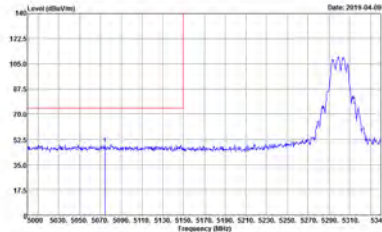
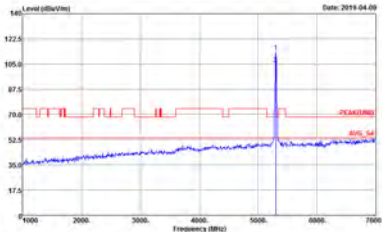
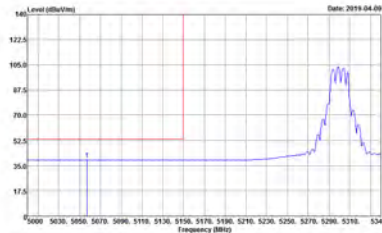


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                            |                                                                                    |
| 1+2  | Vertical                                                                            | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |

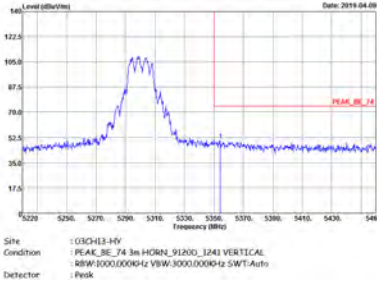
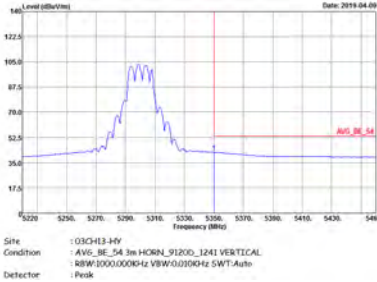
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                 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

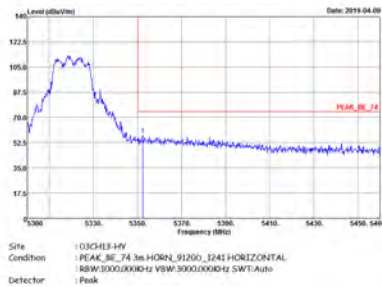
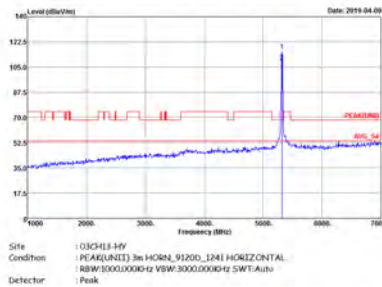
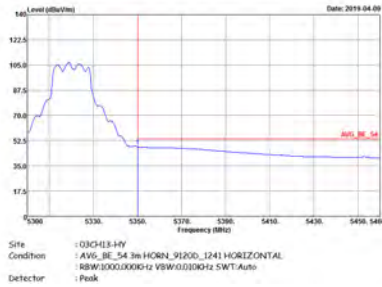
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                      |                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                |                                                                                                                                                                                         |
| 1+2  | Horizontal                                                                                                                                                                              | Fundamental                                                                                                                                                                             |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(FUND) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                              |

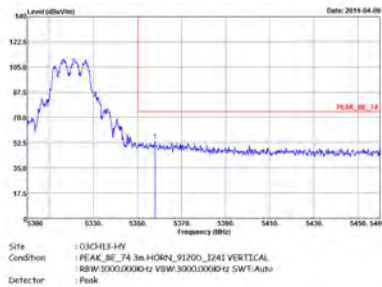
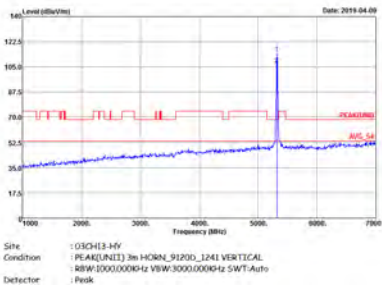
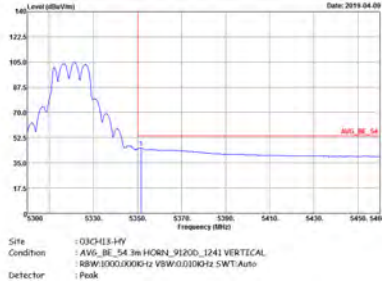
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                             |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : Q3CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:3000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : Q3CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:3000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                   |                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                             |                                                                                                                                                                                     |
| 1+2  | Vertical                                                                                                                                                                             | Fundamental                                                                                                                                                                         |
| Peak |  <p>Site : 03CH3-4V<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH3-4V<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH3-4V<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                          |

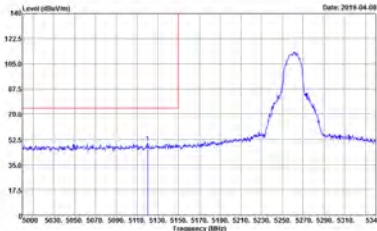
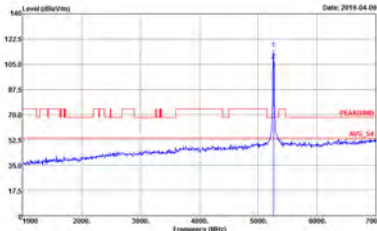
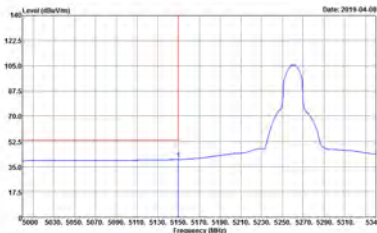


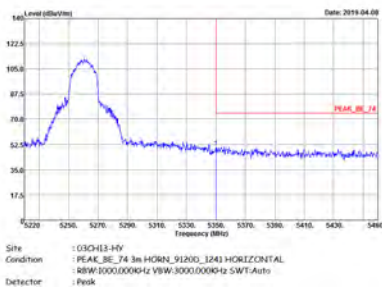
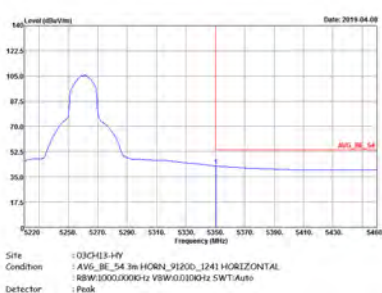
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                 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

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

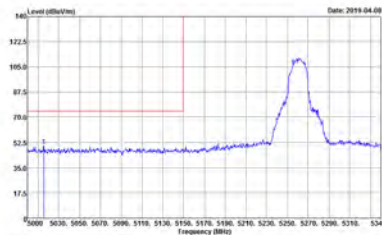
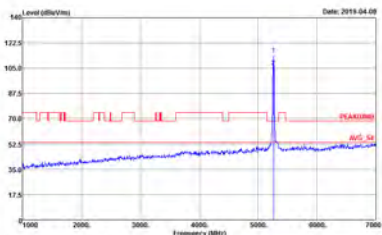
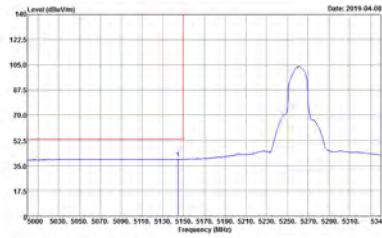
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|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

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

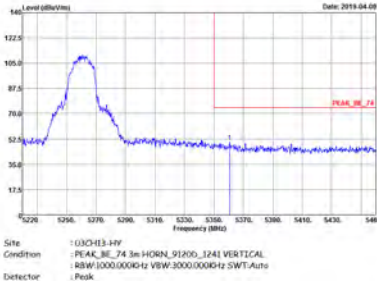
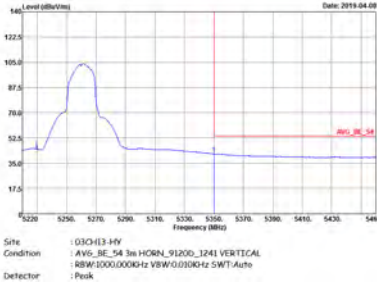
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                     |                                                                                                                                                                                                                                         |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11n HT20 CH52 5260MHz - L                                                                                                                                                                                                          |                                                                                                                                                                                                                                         |
| 1+2         | Horizontal                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                             |
| <b>Peak</b> |  <p>Site : 03CH13-4V<br/> Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/> Detector : Peak</p> |  <p>Site : 03CH13-4V<br/> Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/> Detector : Peak</p> |
| <b>Avg.</b> |  <p>Site : 03CH13-4V<br/> Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/> Detector : Peak</p>   | <b>Left blank</b>                                                                                                                                                                                                                       |

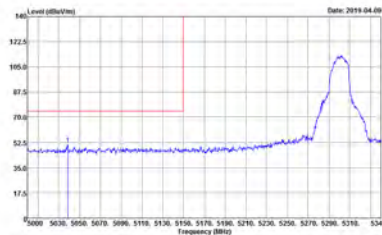
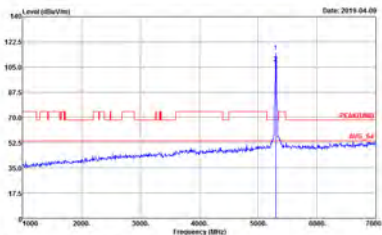
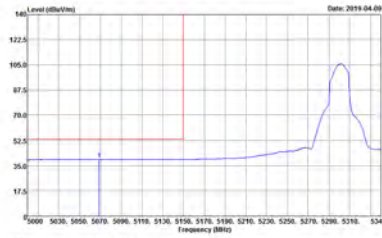
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH52 5260MHz - R                                                                                                                                                                                                        |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                   |                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH52 5260MHz - L                                                                                                                                                        |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                             | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH3-4V<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH3-4V<br/>Condition : PEAK(FUND) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH3-4V<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |

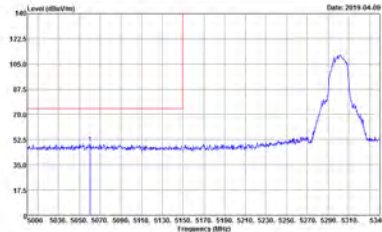
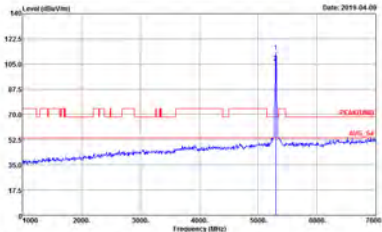
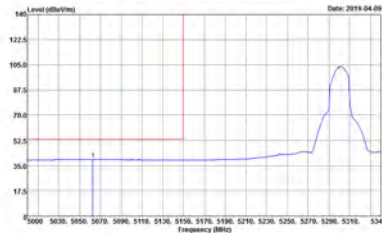


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH52 5260MHz - R                                                       |             |
| 1+2  | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

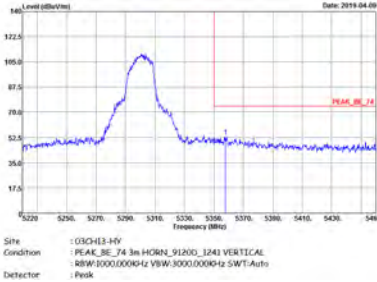
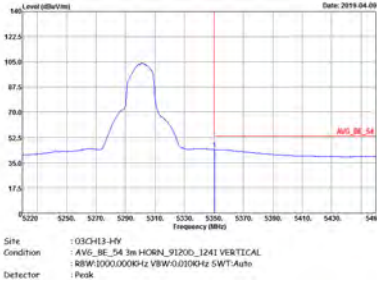
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                      |                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - L                                                                                                                                                           |                                                                                                                                                                                         |
| 1+2  | Horizontal                                                                                                                                                                              | Fundamental                                                                                                                                                                             |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(FUND) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                              |

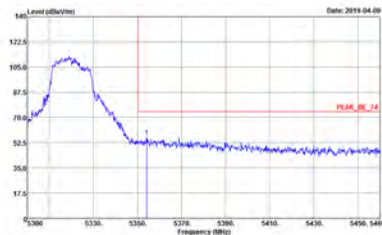
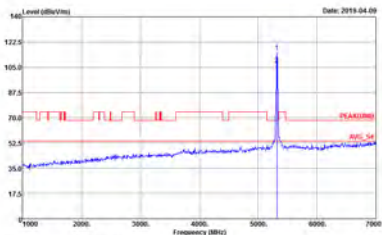
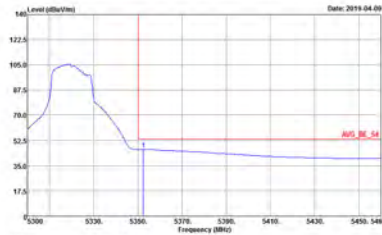


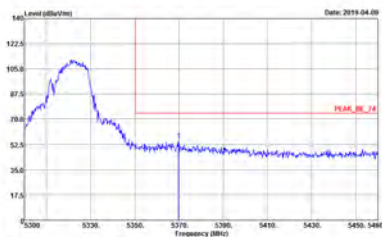
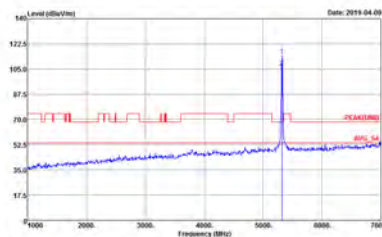
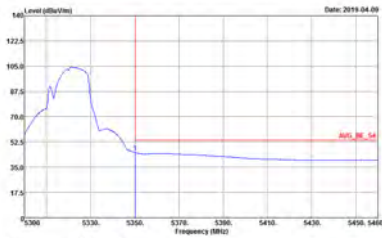
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                |            |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ANT  | 802.11n HT20 CH60 5300MHz - R                                                                                                                     |            |
| 1+2  | Horizontal                                                                                                                                        | Vertical   |
| Peak | <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> | Left blank |
| Avg. | <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>  | Left blank |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - L                                                                                                                                                         |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |



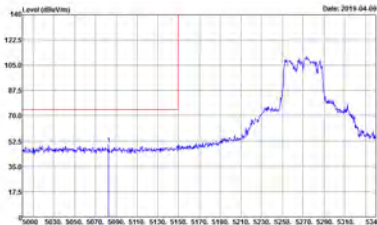
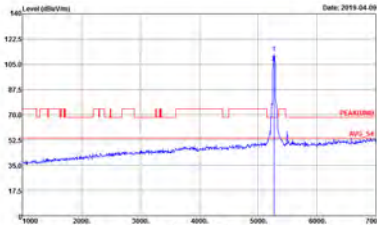
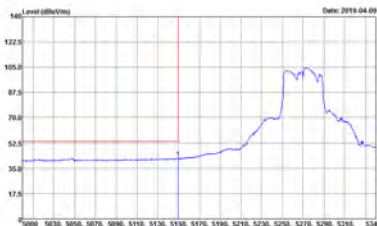
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH60 5300MHz - R                                                       |             |
| 1+2  | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                   |                                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH64 5320MHz                                                                                                                                                                                                            |                                                                                                                                                                                                                                     |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(FUN) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                          |

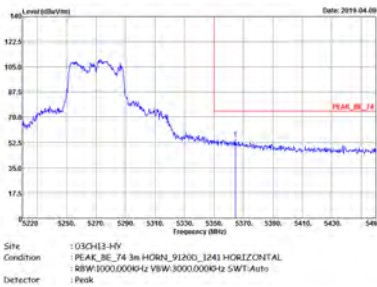
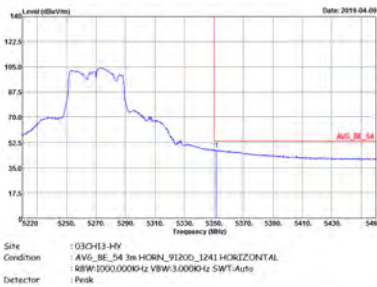
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH64 5320MHz                                                                                                                                                             |                                                                                                                                                                                       |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                           |
| Peak |  <p>Site : 03CH13-4V<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-4V<br/>Condition : PEAK(FUND) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-4V<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                            |

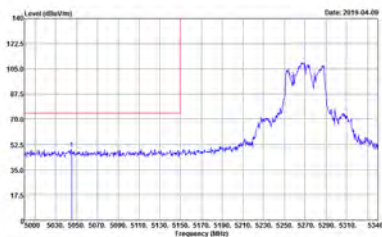
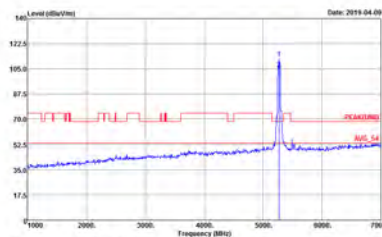
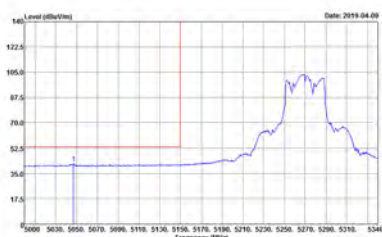


**Band 2 5250~5350MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

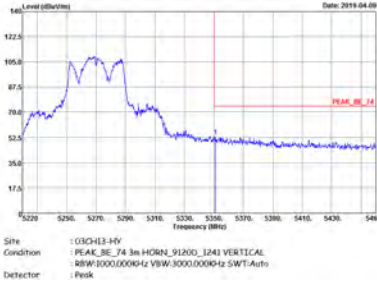
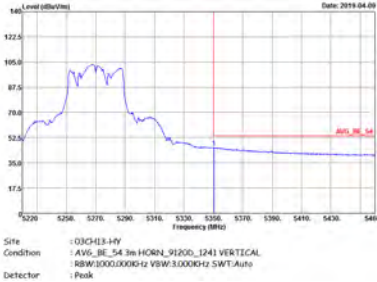
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH54 5270MHz - L                                                                                                                                                                                                       |                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAK(FUND) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak</p>   | Left blank                                                                                                                                                                                                                           |

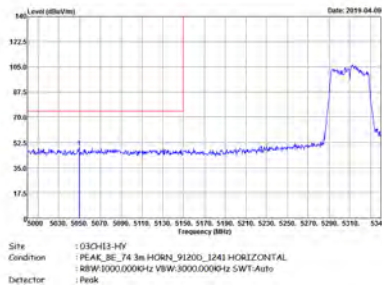
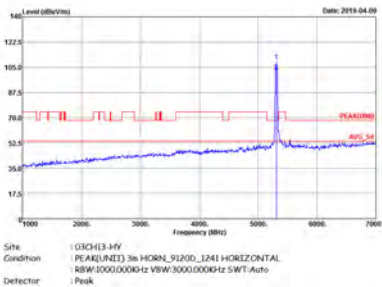
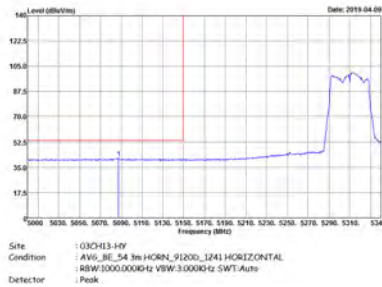


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH54 5270MHz - R                                                                                                                                                                                                        |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-4V<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-4V<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

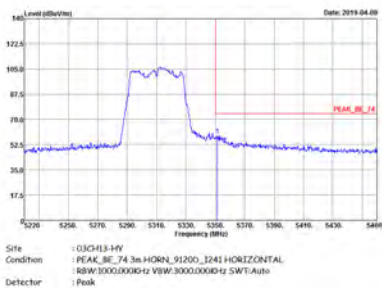
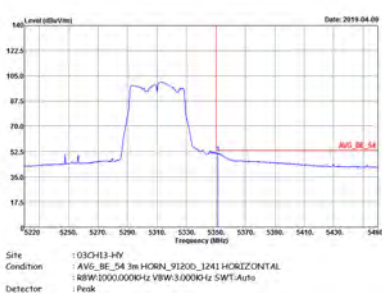
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH54 5270MHz - L                                                                                                                                                         |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Vertical                                                                                                                                                                             |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |

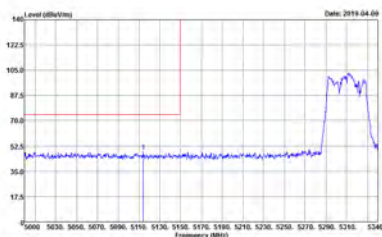
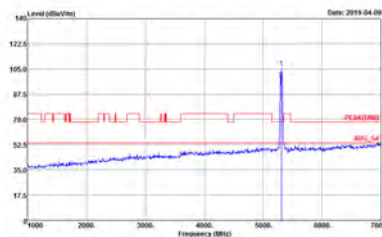
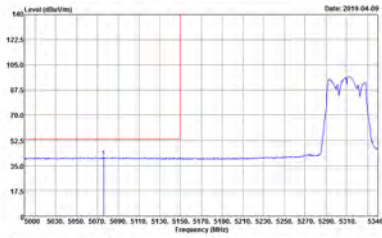


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |            |
|------|-------------------------------------------------------------------------------------|------------|
| ANT  | 802.11n HT40 CH54 5270MHz - R                                                       |            |
| 1+2  | Vertical                                                                            | Vertical   |
| Peak |    | Left blank |
| Avg. |  | Left blank |

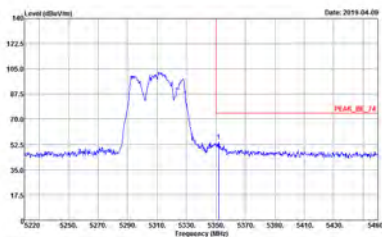
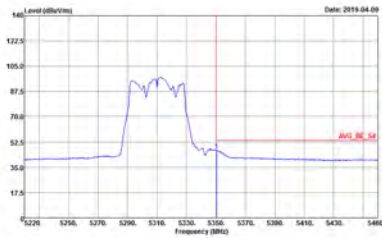
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH62 5310MHz - L                                                       |                                                                                    |
| 1+2  | Horizontal                                                                          | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH62 5310MHz - R                                                       |             |
| 1+2  | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

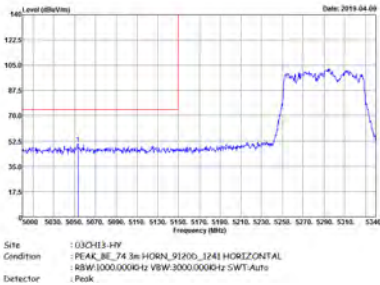
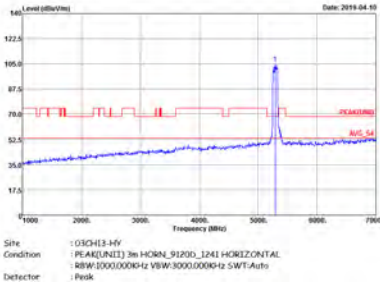
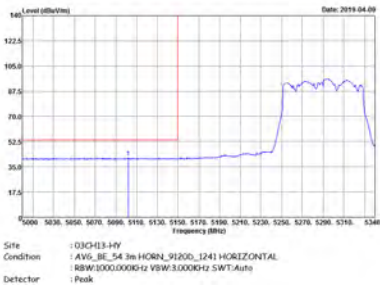
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH62 5310MHz - L                                                                                                                                                                                                      |                                                                                                                                                                                                                                    |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_ME_74 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(FUN1) 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_ME_54 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                         |



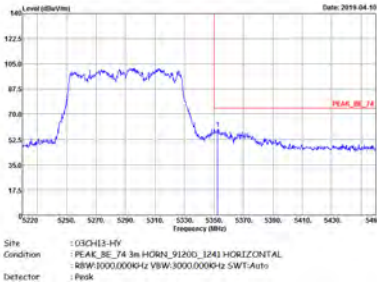
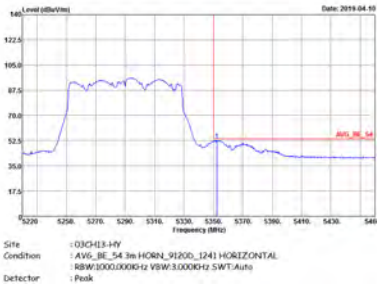
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH62 5310MHz - R                                                                                                                                                         |             |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank  |

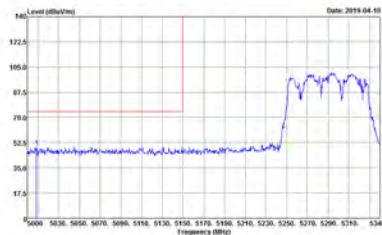
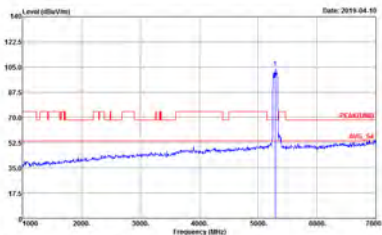
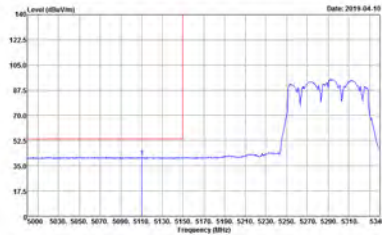


**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

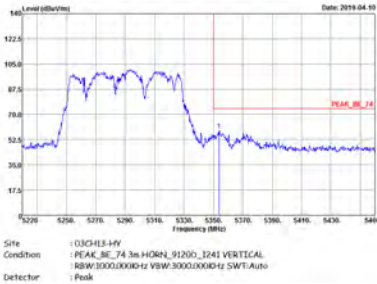
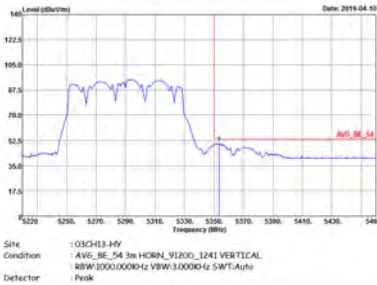
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |                                                                                     |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|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



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                                                                                                      |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_ME_74 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  | Left blank  |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_ME_54 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

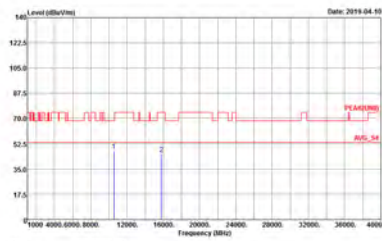
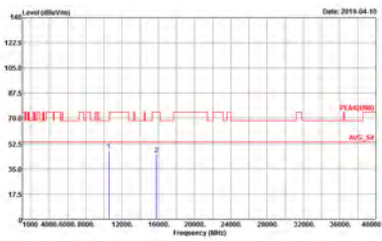
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                                       |                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                              | Fundamental                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNI) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> | Left blank                                                                                                                                                                           |



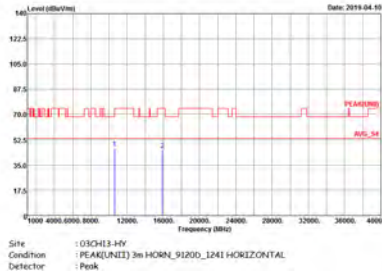
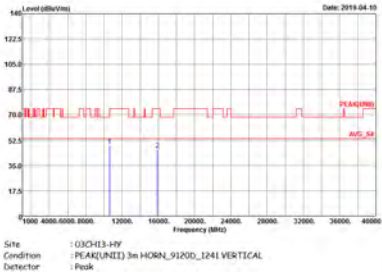
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                          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



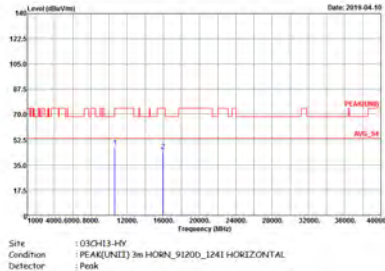
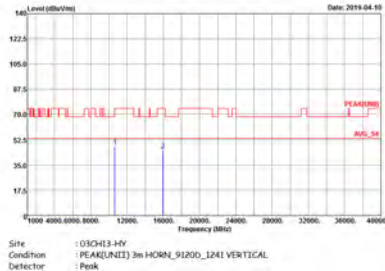
**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH52 5260MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



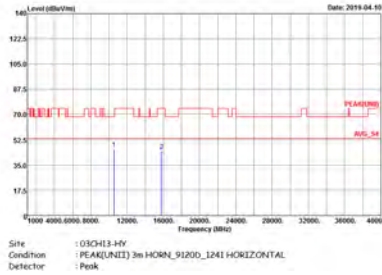
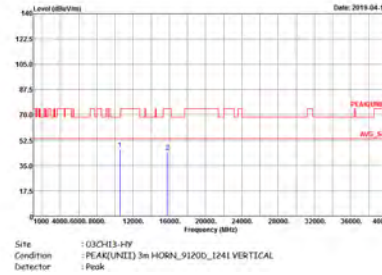
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH60 5300MHz                                                                                                                                                                   |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAQ(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAQ(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



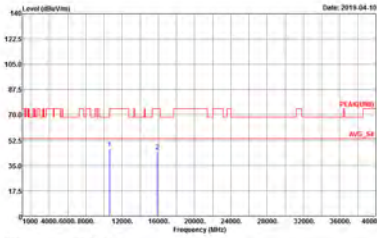
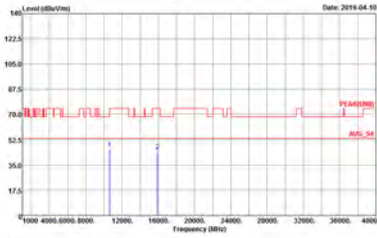
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH64 5320MHz                                                                                                                                                                   |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HV<br/>Condition : PEAQ(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAQ(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



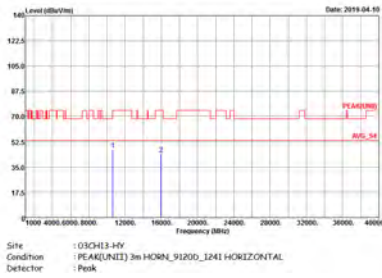
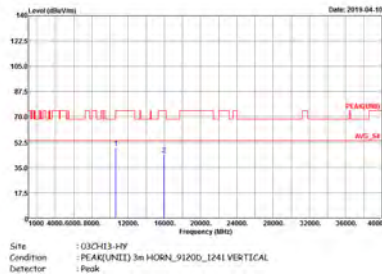
**Band 2 5250~5350MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI                       | Band 2 5250~5350MHz Harmonic @ 3m                                                  |                                                                                     |
|----------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ANT                        | 802.11n HT20 CH52 5260MHz                                                          |                                                                                     |
| 1+2                        | Horizontal                                                                         | Vertical                                                                            |
| <b>Peak</b><br><b>Avg.</b> |  |  |



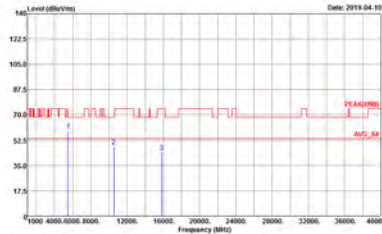
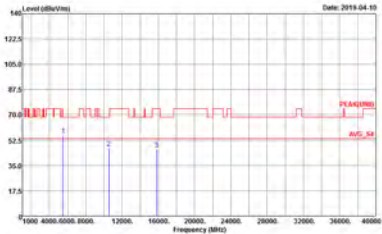
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH60 5300MHz                                                                                                                                                              |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



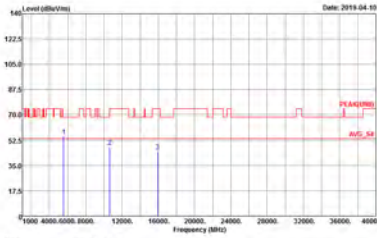
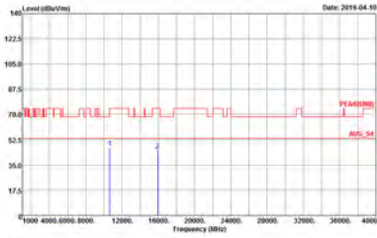
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH64 5320MHz                                                                                                                                                              |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



Band 2 5250~5350MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)

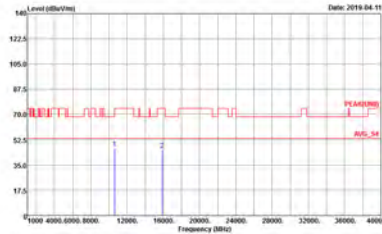
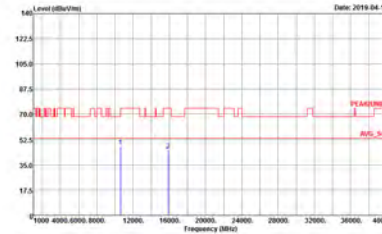
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH54 5270MHz                                                                                                                                                               |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-4HF<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-4HF<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH62 5310MHz                                                                                                                                                               |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAR(UINII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAR(UINII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



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

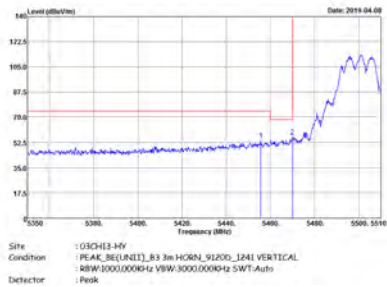
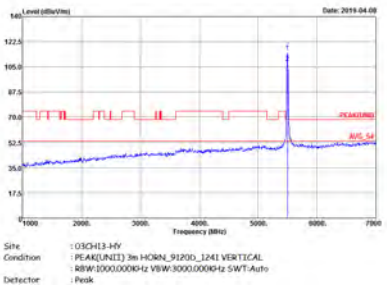
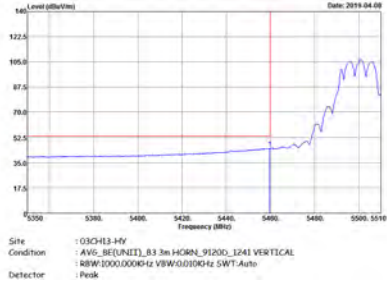
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH58 5290MHz                                                                                                                                                             |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-4HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-4HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



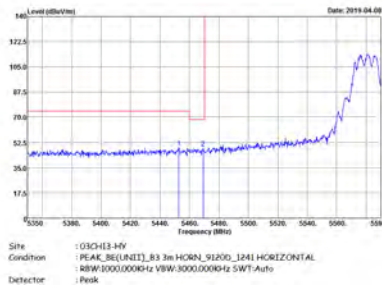
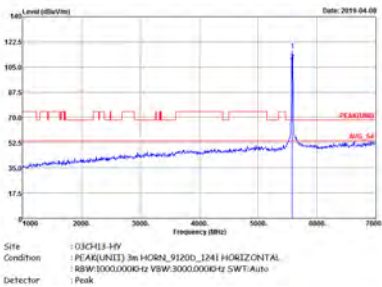
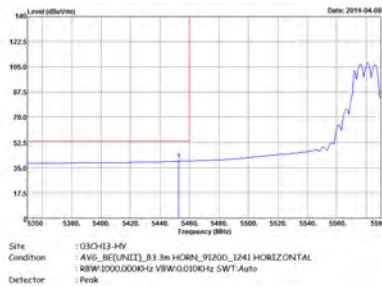
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                        |                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                     |                                                                                                                                                    |
| 1+2  | Horizontal                                                                                                                                                | Fundamental                                                                                                                                        |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT), 83 3m HORN, 91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN, 91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT), 83 3m HORN, 91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>  | Left blank                                                                                                                                         |

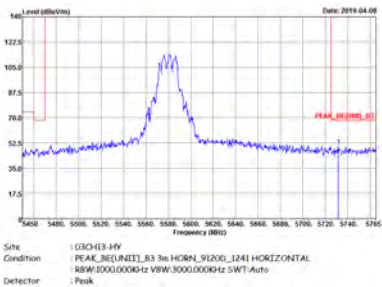


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                               |                                                                                    |
| 1+2  | Vertical                                                                            | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                           |                                                                                    |
| 1+2  | Horizontal                                                                          | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |

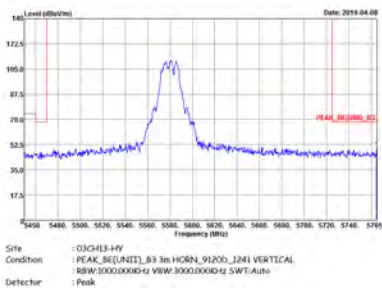


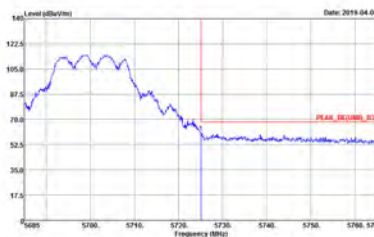
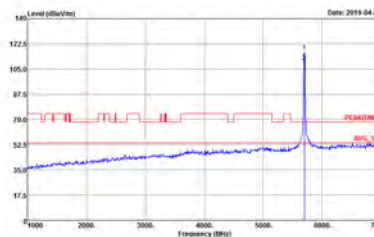
|      |                                                                                   |             |
|------|-----------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
| ANT  | 802.11a CH116 5580MHz - R                                                         |             |
| 1+2  | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

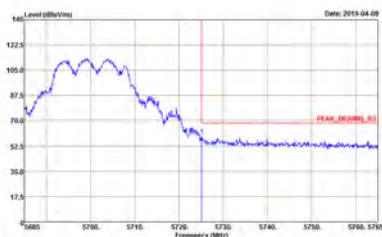
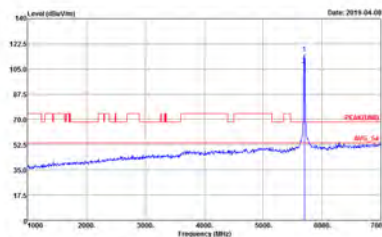


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - L          |             |
| 1+2  | Vertical                           | Fundamental |
| Peak |                                    |             |
| Avg. |                                    | Left blank  |

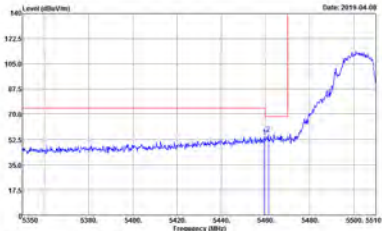
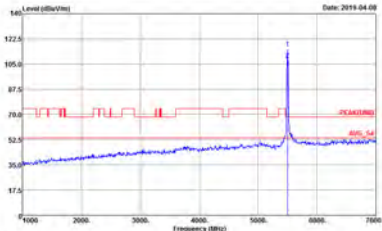
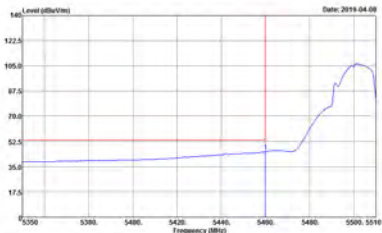


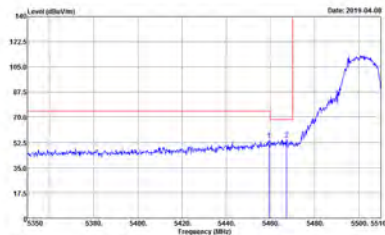
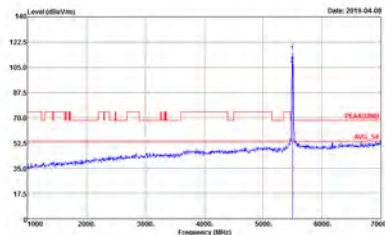
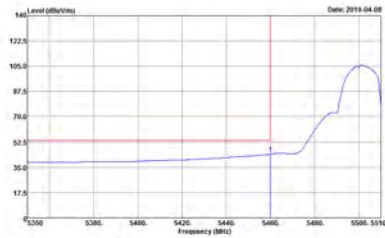
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                         |             |
| 1+2  | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                       |                                                                                                                                                                                                                                       |
| 1+2  | Horizontal                                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : /PEAK_BE[UNIT],_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : /PEAK[UNIT] 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |

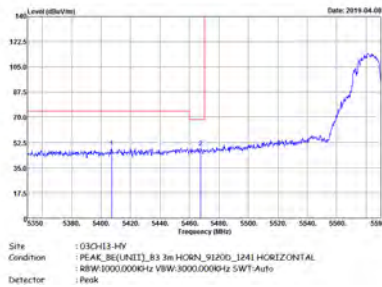
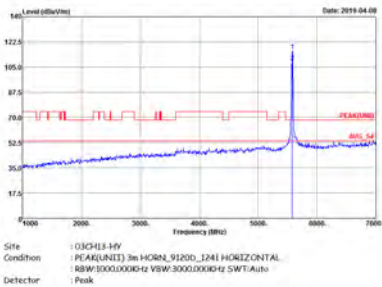
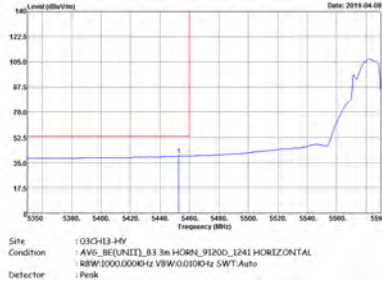
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                     |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                              |                                                                                                                                                                                                                                     |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNI), 3m HORN, 91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNI), 3m HORN, 91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |

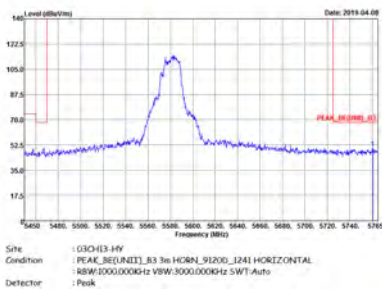
**Band 3 5470~5725MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                           |                                                                                                                                                                                                                                         |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11n HT20 CH100 5500MHz                                                                                                                                                                                                                   |                                                                                                                                                                                                                                         |
| 1+2         | Horizontal                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                             |
| <b>Peak</b> |  <p>Site : 03CH13-HV<br/> Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/> Detector : Peak</p> |  <p>Site : 03CH13-HV<br/> Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/> Detector : Peak</p> |
| <b>Avg.</b> |  <p>Site : 03CH13-HV<br/> Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/> Detector : Peak</p>   | <b>Left blank</b>                                                                                                                                                                                                                       |

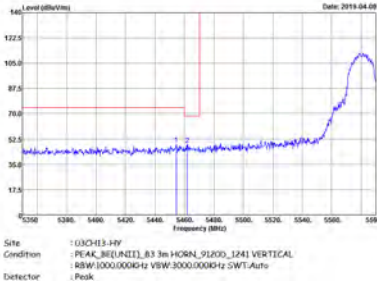
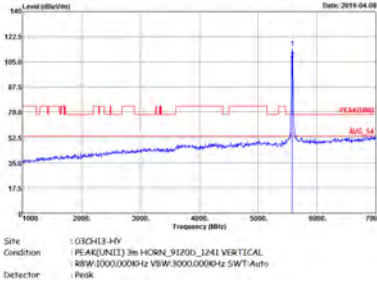
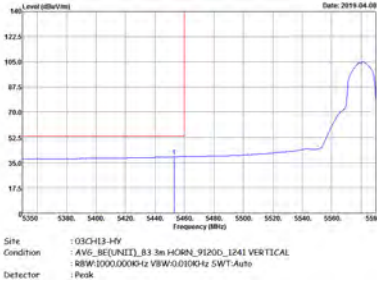
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                       |                                                                                                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH100 5500MHz                                                                                                                                                                                                               |                                                                                                                                                                                                                                       |
| 1+2  | Vertical                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_51200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT)_B3 3m HORN_51200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_51200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                            |



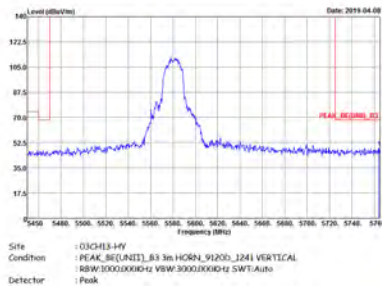
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - L                                                                                                                                                                                                             |                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-MY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-MY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                           |

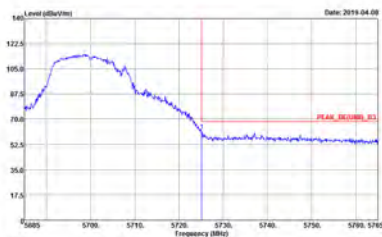
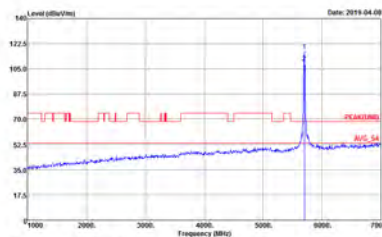
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH116 5580MHz - R                                                    |             |
| 1+2  | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

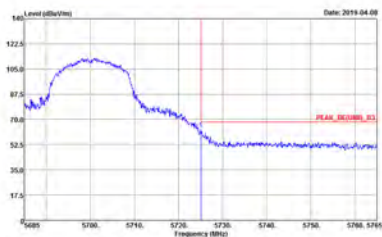
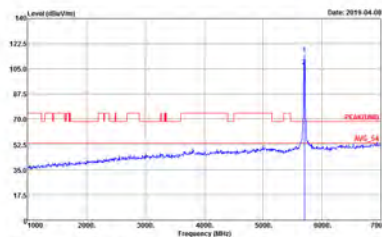


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - L                                                      |                                                                                    |
| 1+2  | Vertical                                                                            | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |



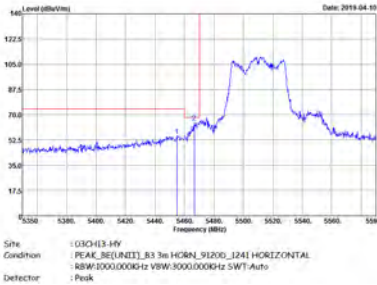
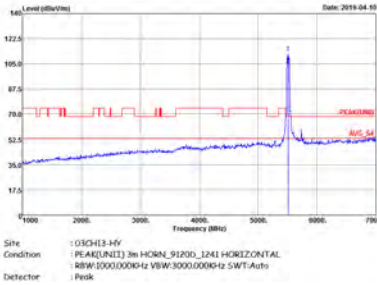
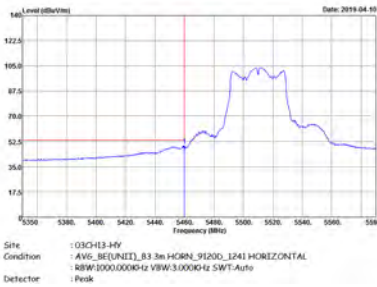
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH116 5580MHz - R                                                    |             |
| 1+2  | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

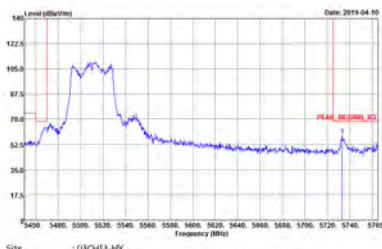
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                         |                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH140 5700MHz                                                                                                                                                                                                                 |                                                                                                                                                                                                                                       |
| 1+2  | Horizontal                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH13-MY<br/>Condition : PEAK_BE(UNIT1)_83 3m HORN_51200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNIT1) 3m HORN_51200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |

| WIFI  | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                       |                                                                                                                                                                                                                                     |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT   | 802.11n HT20 CH140 5700MHz                                                                                                                                                                                                               |                                                                                                                                                                                                                                     |
| 1+2   | Vertical                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                         |
| Peak. |  <p>Site : 03CH13-MY<br/>Condition : PEAK_BE[UNIT1]_B3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-MY<br/>Condition : PEAK[UNIT1] 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |

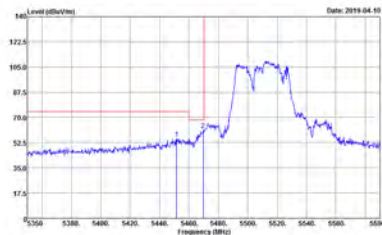
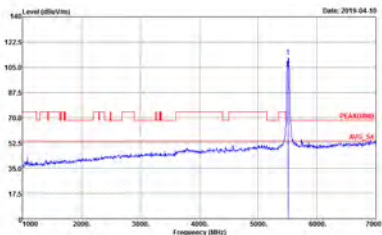
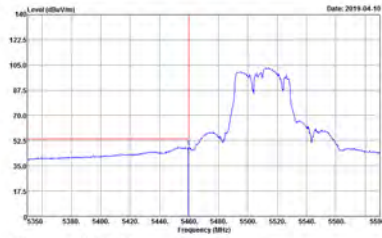


**Band 3 5470~5725MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

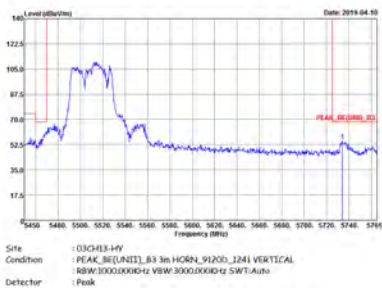
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                     |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH102 5510MHz - L                                                      |                                                                                     |
| 1+2  | Horizontal                                                                          | Fundamental                                                                         |
| Peak |   |  |
| Avg. |  | Left blank                                                                          |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                           |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH102 5510MHz - R                                                                                                                                                                                                               |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                   | Fundamental |
| Peak |  <p>Site : C3CH13-HV<br/> Condition : PEAK_BE(UNIT)_R3 3m HORN_51200_1241 HORIZONTAL<br/> RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/> Detector : Peak</p> | Left blank  |

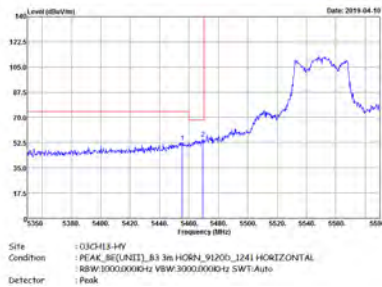
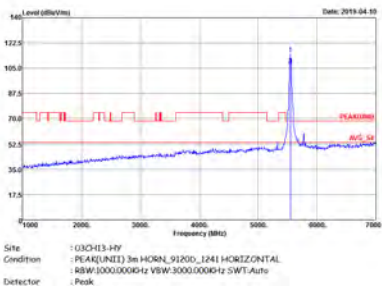
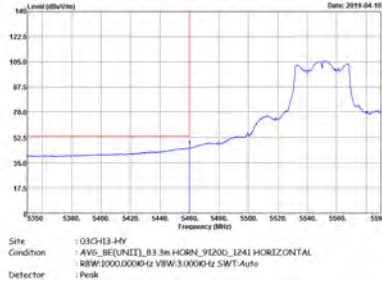


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                       |                                                                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH102 5510MHz - L                                                                                                                                                                                                           |                                                                                                                                                                                                                                    |
| 1+2  | Vertical                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT)_3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                         |

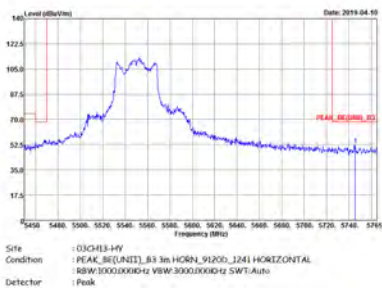


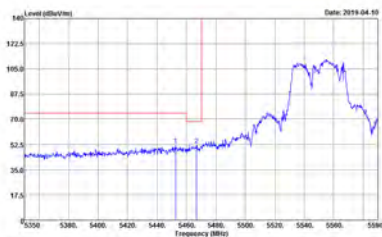
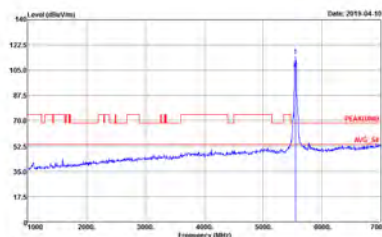
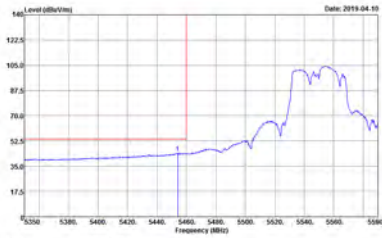
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH102 5510MHz - R                                                    |             |
| 1+2  | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |



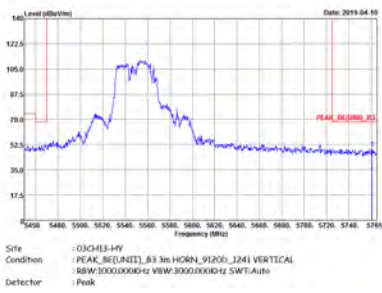
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH110 5550MHz - L                                                                                                                                                                                                             |                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                           |



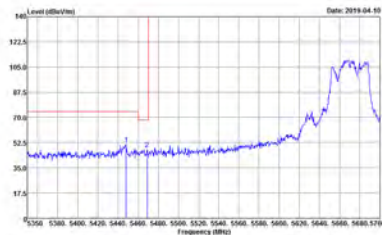
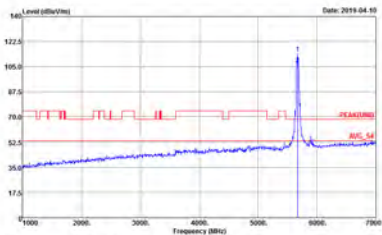
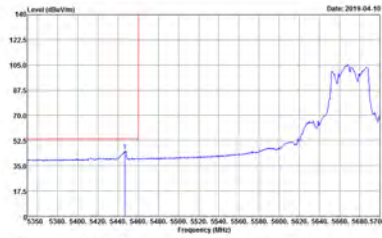
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH110 5550MHz - R                                                    |             |
| 1+2  | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                       |                                                                                                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH110 5550MHz - L                                                                                                                                                                                                           |                                                                                                                                                                                                                                       |
| 1+2  | Vertical                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT)_B3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                            |

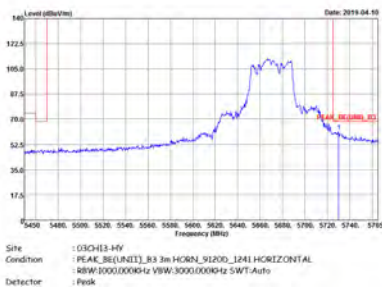


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH110 5550MHz - R                                                    |             |
| 1+2  | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

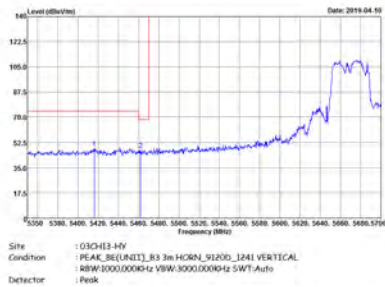
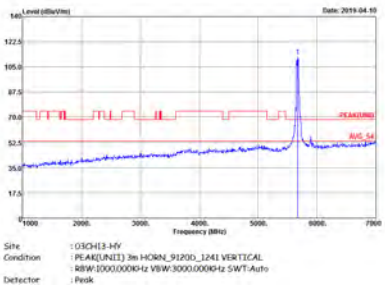
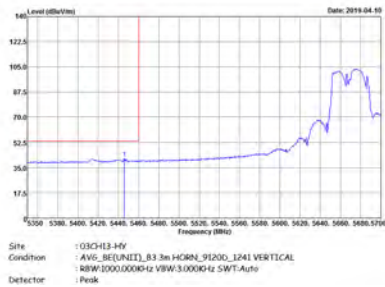


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH134 5670MHz - L                                                                                                                                                                                                             |                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                           |

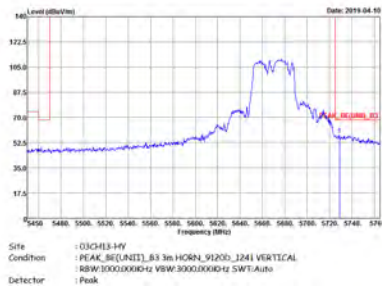


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH134 5670MHz - R                                                    |             |
| 1+2  | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |



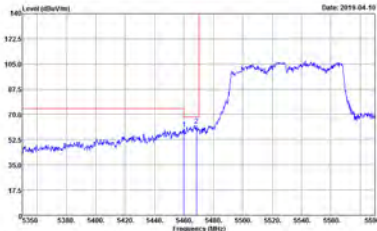
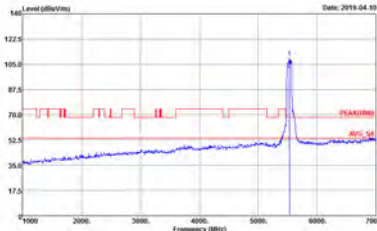
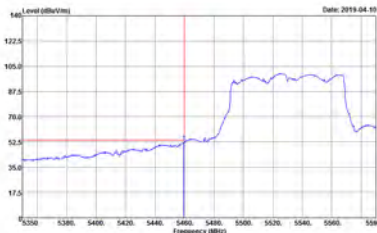
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH134 5670MHz - L                                                                                                                                                                                                             |                                                                                                                                                                                                                                      |
| 1+2  | Vertical                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-MY<br/>Condition : PEAK_BE(UNIT)_R3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-MY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-MY<br/>Condition : AVG_BE(UNIT)_R3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                           |



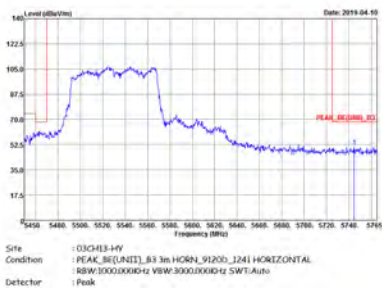
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH134 5670MHz - R                                                    |             |
| 1+2  | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |



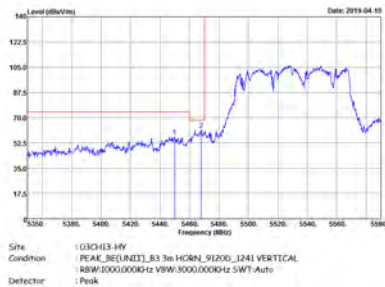
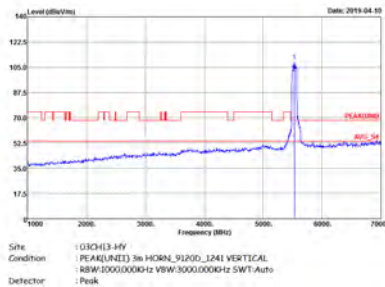
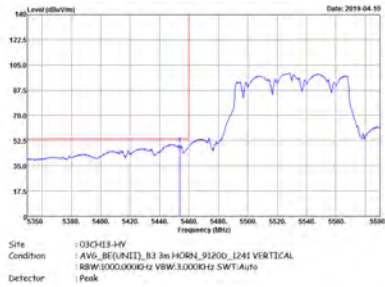
**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                        |                                                                                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                                                                                          |                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3.000kHz SWT:Auto<br/>Detector : Peak</p>   | Left blank                                                                                                                                                                                                                           |

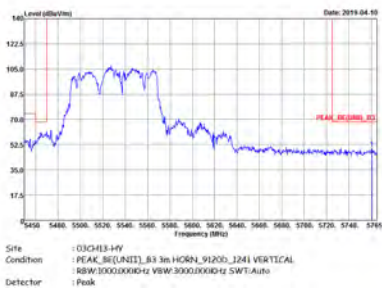


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                             |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                                                                                                                                                                               |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                     | Fundamental |
| Peak |  <p>Site : C:\CH106-11V<br/>Condition : /PEAK_REC(UNIT)_01 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank  |

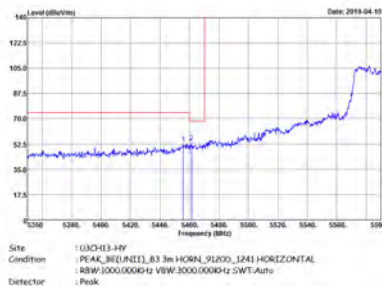
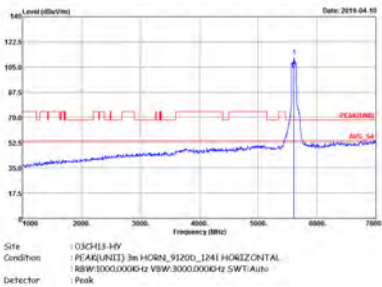
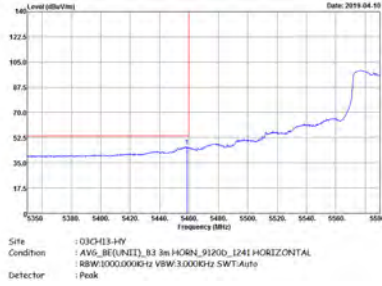


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                    |                                                                                    |
| 1+2  | Vertical                                                                            | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |

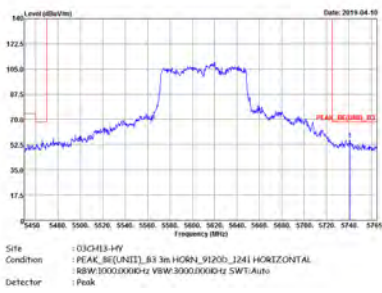


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                  |             |
| 1+2  | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

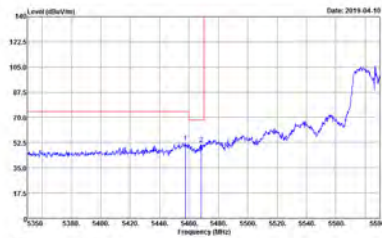
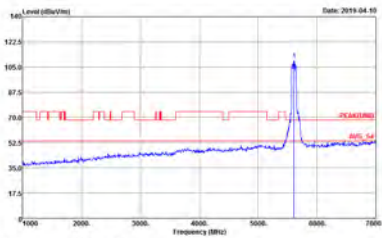
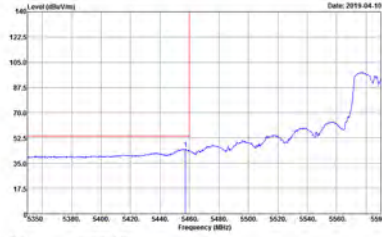


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                        |                                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                                                                                          |                                                                                                                                                                                                                                       |
| 1+2  | Horizontal                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_3E(UNIT), 3m HORN, 91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VSW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN, 91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VSW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_3E(UNIT), 3m HORN, 91200_1241 HORIZONTAL<br/>RBW:1000.000KHz VSW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                            |

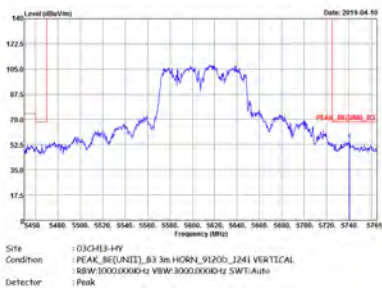


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                  |             |
| 1+2  | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |



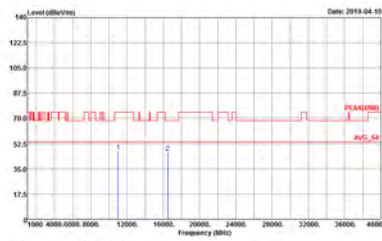
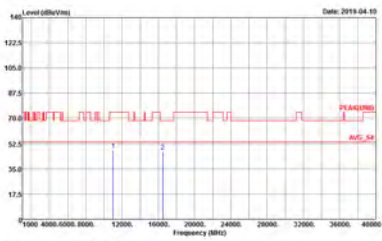
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                        |                                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                                                                                          |                                                                                                                                                                                                                                    |
| 1+2  | Vertical                                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE[UNIT], B3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p>  |  <p>Site : 03CH13-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE[UNIT], B3 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                         |



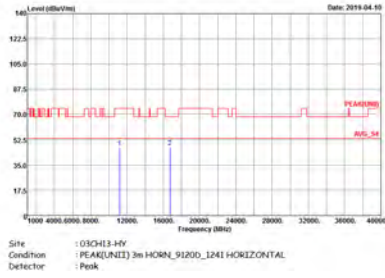
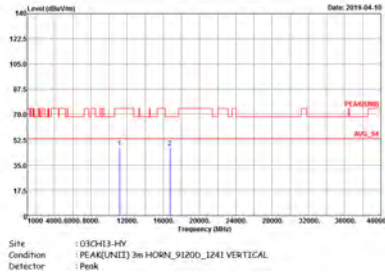
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                  |             |
| 1+2  | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |



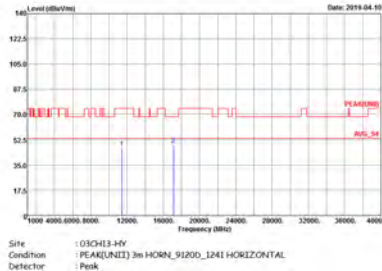
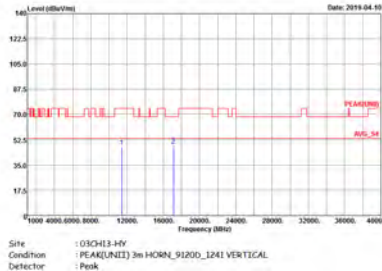
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH100 5500MHz                                                                                                                                                                   |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



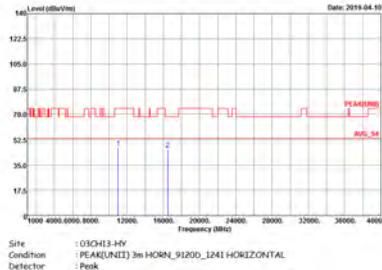
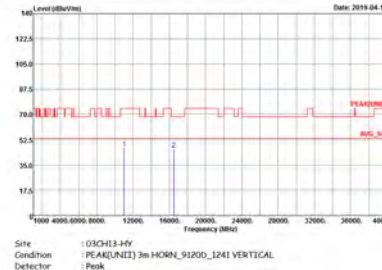
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                 |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                             |                                                                                    |
| 1+2          | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |



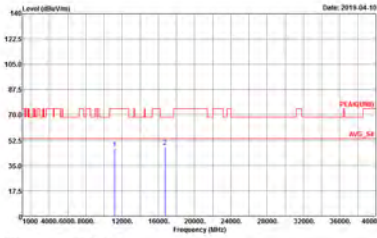
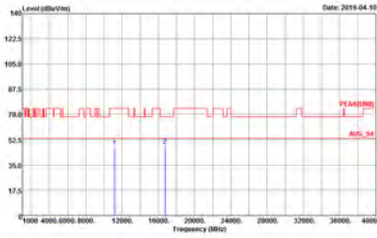
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH140 5700MHz                                                                                                                                                                  |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



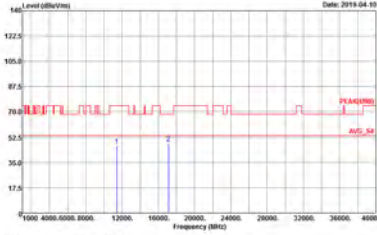
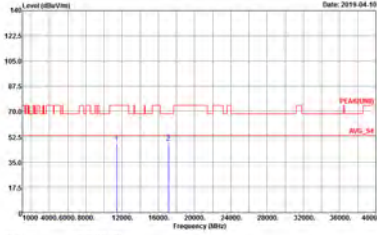
Band 3 5470~5725MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                  |                                                                                     |
|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH100 5500MHz                                                         |                                                                                     |
| 1+2          | Horizontal                                                                         | Vertical                                                                            |
| Peak<br>Avg. |  |  |



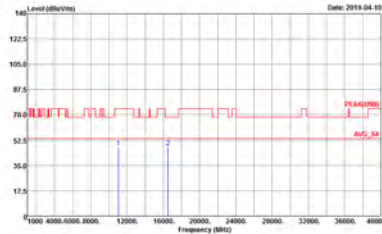
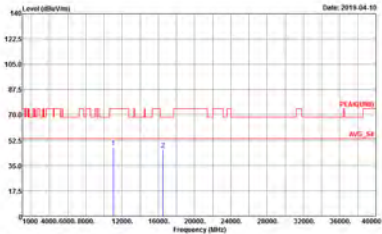
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH116 5580MHz                                                                                                                                                             |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAR(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAR(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



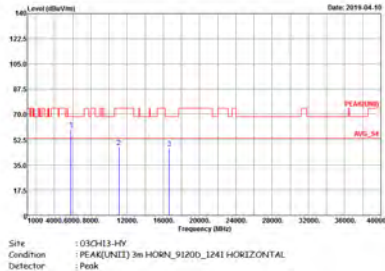
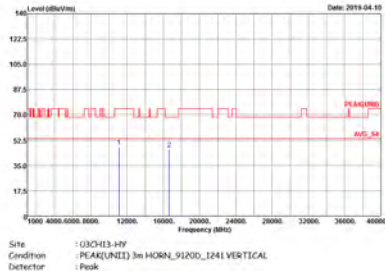
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH140 5700MHz                                                                                                                                                             |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAR(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAR(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



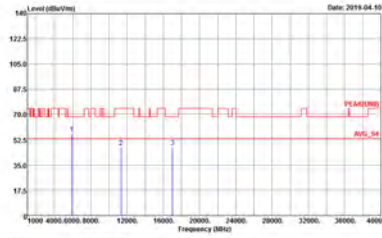
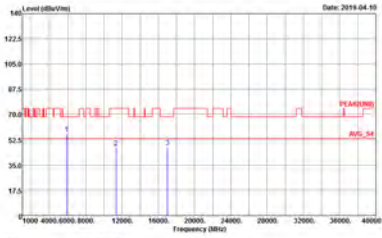
Band 3 5470~5725MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                       |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH102 5510MHz                                                                                                                                                              |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-4HF<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-4HF<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



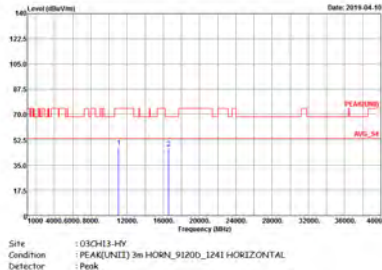
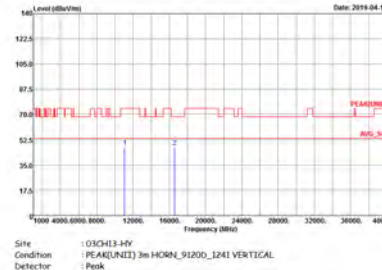
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH110 5550MHz                                                                                                                                                             |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



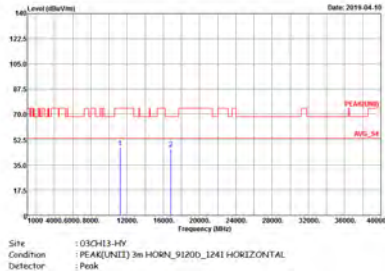
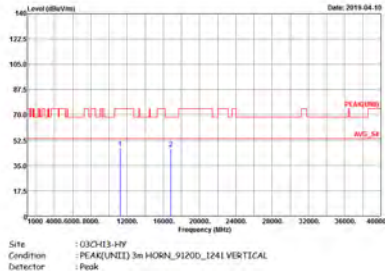
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH134 5670MHz                                                                                                                                                             |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



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

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                  |                                                                                     |
|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH106 5530MHz                                                       |                                                                                     |
| 1+2          | Horizontal                                                                         | Vertical                                                                            |
| Peak<br>Avg. |  |  |



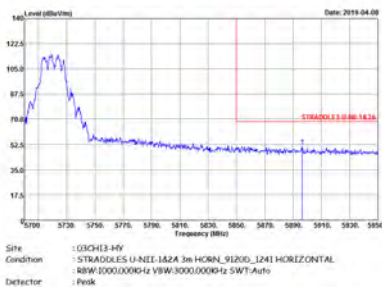
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH122 5610MHz                                                                                                                                                           |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HY<br/>Condition : PEAQ(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAQ(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



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

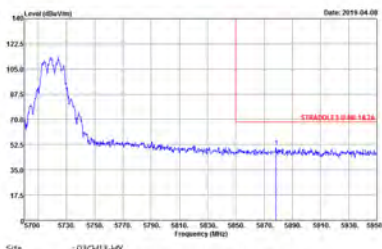
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11a CH144 5720MHz - L          |             |
| 1+2  | Horizontal                         | Fundamental |
| Peak |                                    |             |
| Avg. |                                    | Left blank  |



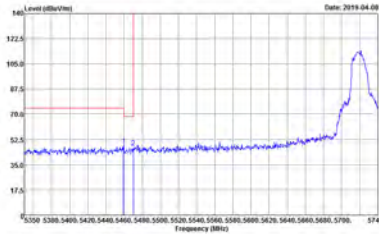
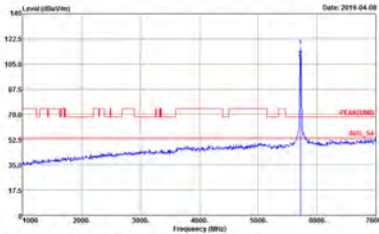
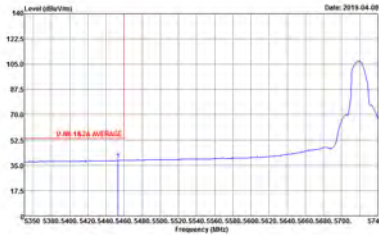
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                              |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH144 5720MHz - R                                                                                                                                                                                                                       |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>Site : 030413-14V<br/>Condition : STRASDULES U-NET-142A 3m HORN_51200_1241 HORIZONTAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank  |



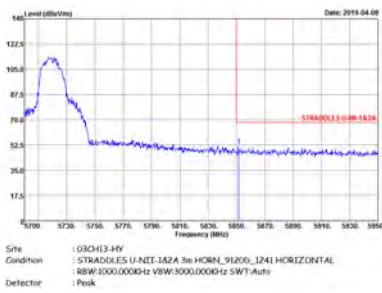
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11a CH144 5720MHz - L          |             |
| 1+2  | Vertical                           | Fundamental |
| Peak |                                    |             |
| Avg. |                                    | Left blank  |

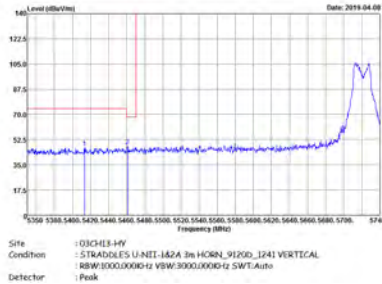
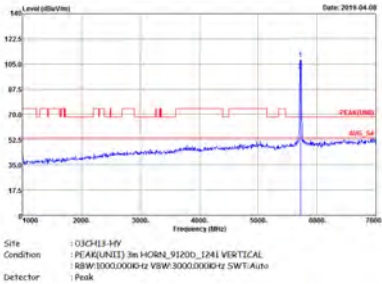
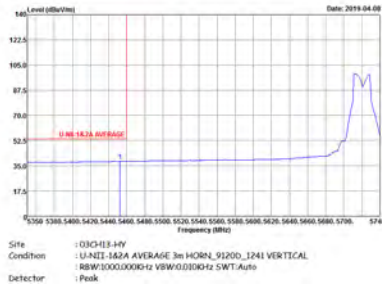
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                               |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH144 5720MHz - R                                                                                                                                                                                                                        |             |
| 1+2  | Vertical                                                                                                                                                                                                                                         | Fundamental |
| Peak |  <p>Site : OUCHES-HV<br/> Condition : STRADDLES U-NIT-142A 3m HORN_91200_1241 VERTICAL<br/> RBW:3000.0000 Hz VSW:3000.0000 Hz SWT:Auto<br/> Detector : Peak</p> | Left blank  |

**Band 3 – Straddle Channel**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

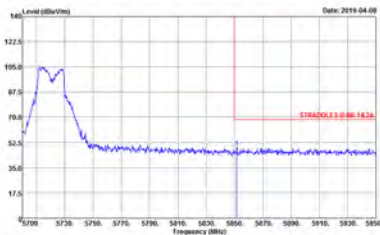
| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                               |                                                                                                                                                                                                                                         |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11n HT20 CH144 5720MHz - L                                                                                                                                                                                                                   |                                                                                                                                                                                                                                         |
| 1+2         | Horizontal                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                             |
| <b>Peak</b> |  <p>Site : 03CH13-HV<br/> Condition : STRADGLES U-NET-1A2A 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/> Detector : Peak</p> |  <p>Site : 03CH13-HV<br/> Condition : PEAR(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/> Detector : Peak</p> |
| <b>Avg.</b> |  <p>Site : 03CH13-HV<br/> Condition : U-NET-1A2A AVERAGE 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto<br/> Detector : Peak</p>    | <b>Left blank</b>                                                                                                                                                                                                                       |



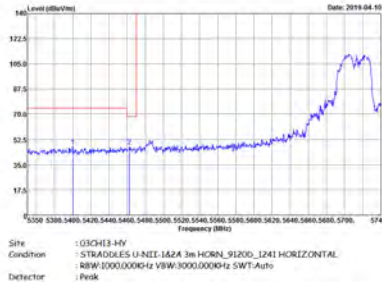
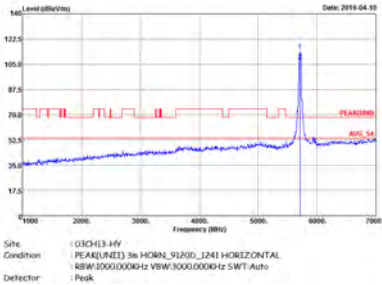
|      |                                                                                                                                                                                                                         |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                      |             |
| ANT  | 802.11n HT20 CH144 5720MHz - R                                                                                                                                                                                          |             |
| 1+2  | Horizontal                                                                                                                                                                                                              | Fundamental |
| Peak |  <p>Site : DISCH 13.4V<br/>Condition : STRADOL 1.0 10.40.14.20<br/>RBW: 1000.0000Hz VBW: 3000.0000Hz SWT: Auto<br/>Detector : Peak</p> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH144 5720MHz - L                                                                                                                                                                                                              |                                                                                                                                                                                                                                    |
| 1+2  | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : STRADGLES U-NIT-142A 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : U-NIT-142A AVERAGE 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                         |

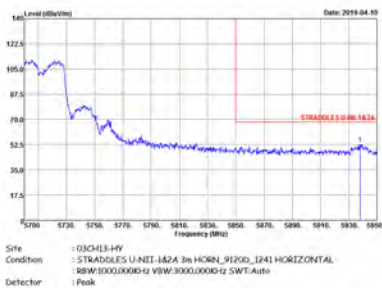


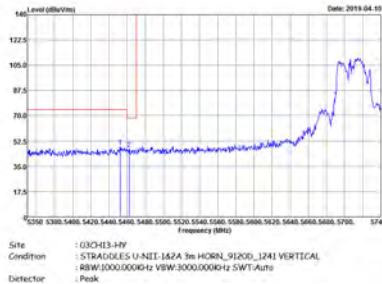
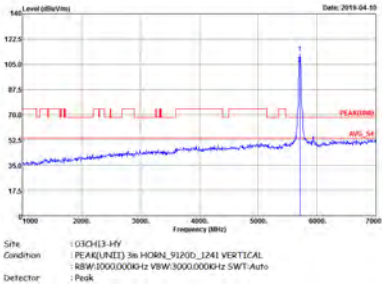
|      |                                                                                                                                                                                                                                                       |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                    |             |
| ANT  | 802.11n HT20 CH144 5720MHz - R                                                                                                                                                                                                                        |             |
| 1+2  | Vertical                                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH13-4V<br/>Condition : STRADGLES U-NET-1A2A 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p></div> | Left blank  |

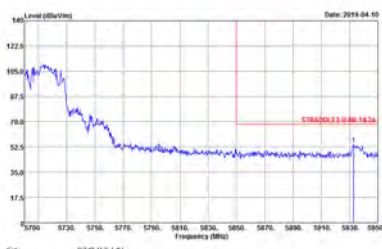
**Band 3 – Straddle Channel**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                     |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ANT         | 802.11n HT40 CH142 5710MHz - L                                                      |                                                                                     |
| 1+2         | Horizontal                                                                          | Fundamental                                                                         |
| <b>Peak</b> |   |  |
| <b>Avg.</b> |  | Left blank                                                                          |

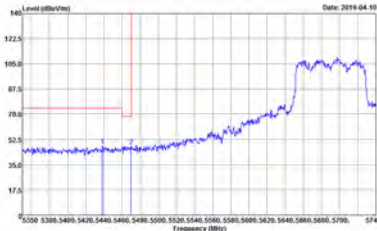
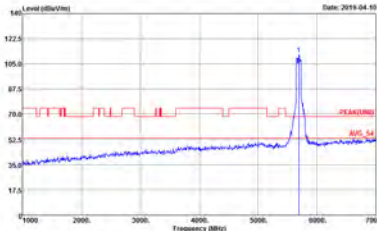
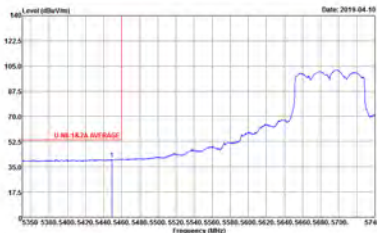


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                 |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH142 5710MHz - R                                                                                                                                                                                                                     |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                         | Fundamental |
| Peak |  <p>Site : OUCHES-HV<br/> Condition : STRADGLES U-NIT-142A 3m HORN_91200_1241 HORIZONTAL<br/> RBW:3000.0000 Hz VBW:3000.0000 Hz SWT:Auto<br/> Detector : Peak</p> | Left blank  |

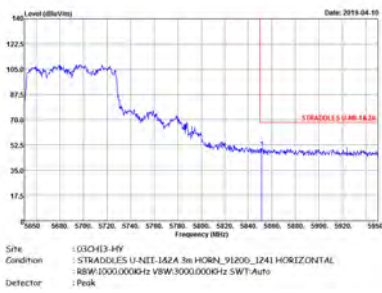
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                  |                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH142 5710MHz - L                                                      |                                                                                    |
| 1+2  | Vertical                                                                            | Fundamental                                                                        |
| Peak |    |  |
| Avg. |  | Left blank                                                                         |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                              |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH142 5710MHz - R                                                                                                                                                                                                                  |             |
| 1+2  | Vertical                                                                                                                                                                                                                                        | Fundamental |
| Peak |  <p>Site : 03CH142V<br/> Condition : STRADOLLES UNIT 142A 3m HORN, 91200, 1241 VERTICAL<br/> RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto<br/> Detector : Peak</p> | Left blank  |

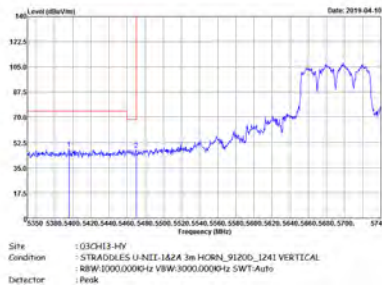
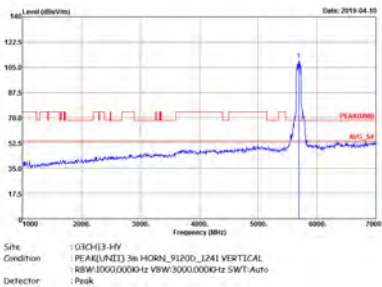
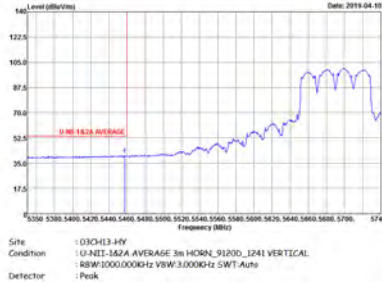
**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                               |                                                                                                                                                                                                                                         |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH138 5690MHz - L                                                                                                                                                                                                                 |                                                                                                                                                                                                                                         |
| 1+2         | Horizontal                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                             |
| <b>Peak</b> |  <p>Site : 03CH13-HV<br/> Condition : STRADDLES U-NET-1A2A 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/> Detector : Peak</p> |  <p>Site : 03CH13-HV<br/> Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/> Detector : Peak</p> |
| <b>Avg.</b> |  <p>Site : 03CH13-HV<br/> Condition : U-NET-1A2A AVERAGE 3m HORN_91200_1241 HORIZONTAL<br/> RBW:1000.000kHz VBW:3.000kHz SWT:Auto<br/> Detector : Peak</p>    | <b>Left blank</b>                                                                                                                                                                                                                       |

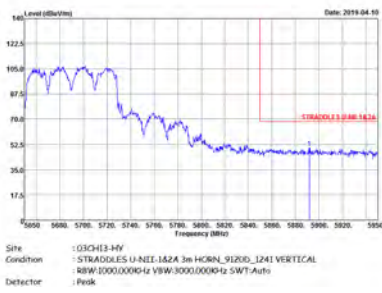


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                             |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH138 5690MHz - R                                                                                                                                                                                                               |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                     | Fundamental |
| Peak |  <p>Site : DISCHIE-HV<br/>Condition : STRADGLES U-NET-1A2A 3m HORN_91200_1241 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> | Left blank  |



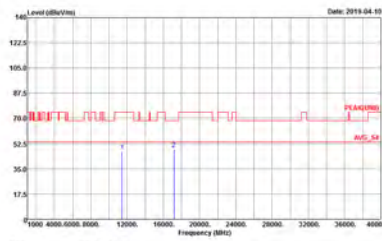
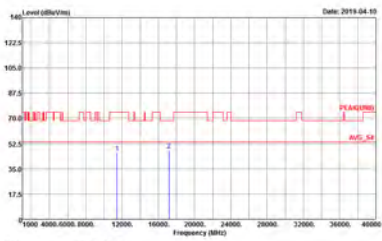
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH138 5690MHz - L                                                                                                                                                                                                            |                                                                                                                                                                                                                                    |
| 1+2  | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH13-HV<br/>Condition : STRAUSLES U-NET-1A2A 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> |
| Avg. |  <p>Site : 03CH13-HV<br/>Condition : U-NET-1A2A AVERAGE 3m HORN_91200_1241 VERTICAL<br/>RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto<br/>Detector : Peak</p> | Left blank                                                                                                                                                                                                                         |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH138 5690MHz - R                                                  |             |
| 1+2  | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

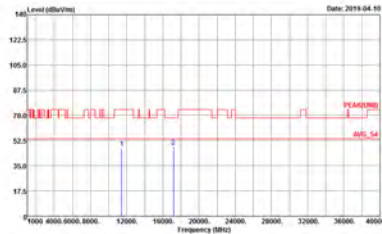
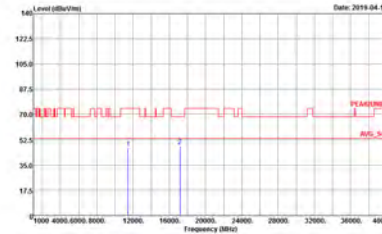


**Band 3 - Straddle Channel**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                   |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                                                   |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HF<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |

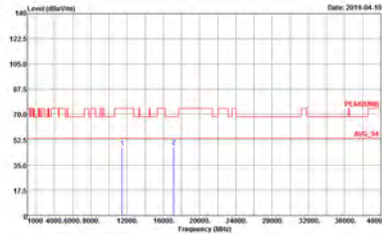
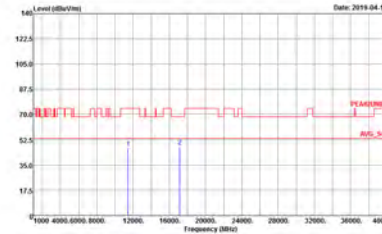


**Band 3 – Straddle Channel**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                  |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH144 5720MHz                                                                                                                                                             |                                                                                                                                                                                       |
| 1+2          | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-HV<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |

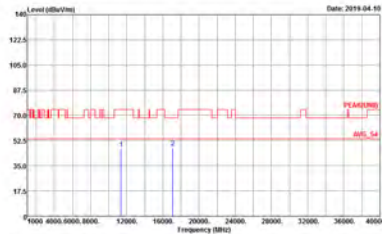
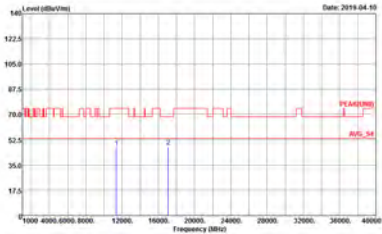


**Band 3 – Straddle Channel**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

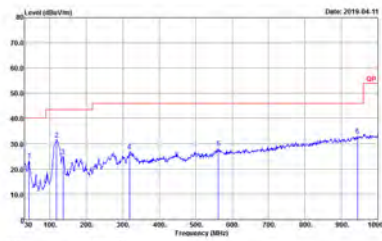
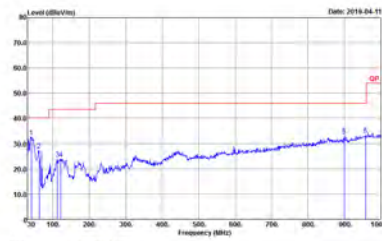
| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                   |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH142 5710MHz                                                                                                                                                              |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-4HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-4HV<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |



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

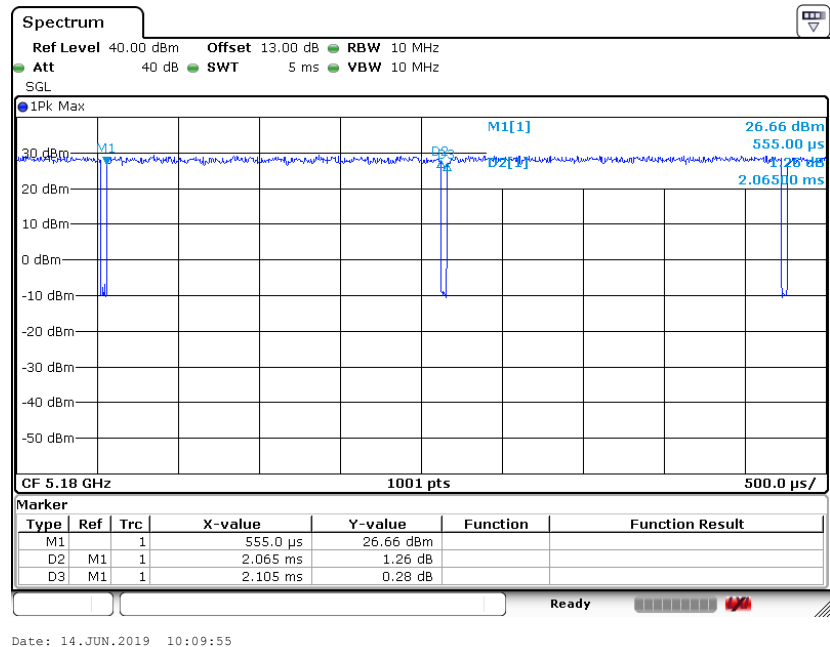
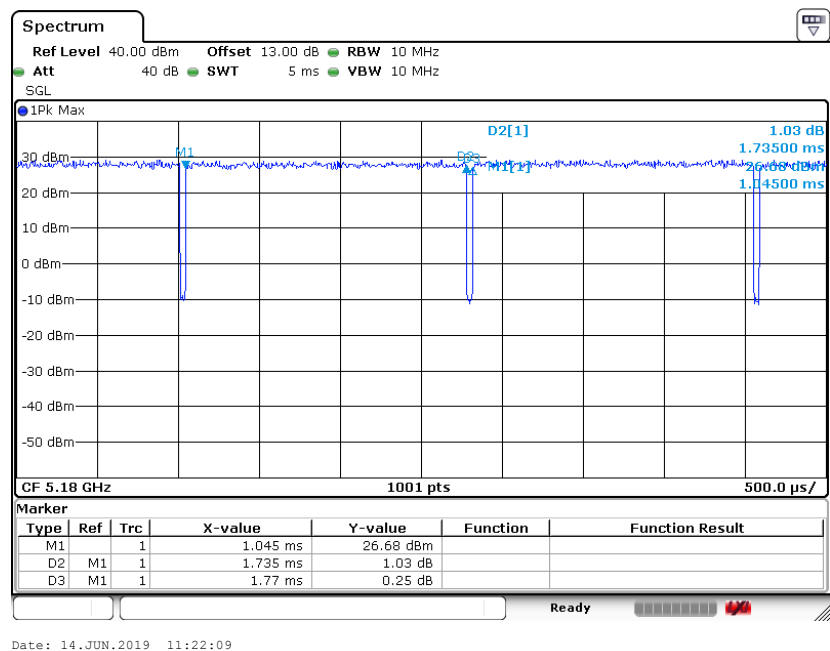
| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                   |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH138 5690MHz                                                                                                                                                            |                                                                                                                                                                                        |
| 1+2          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH13-1HV<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH13-1HV<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL<br/>Detector : Peak</p> |

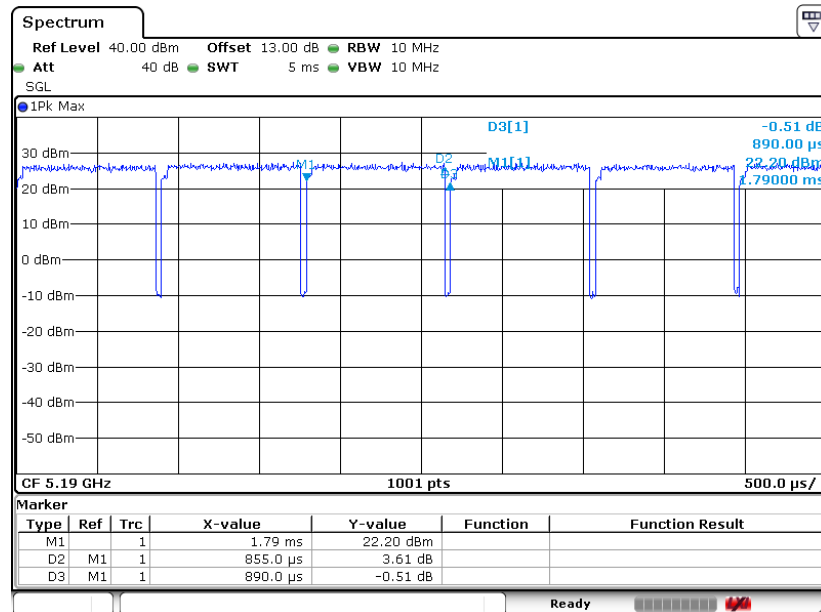
**Emission below 1GHz**  
**5GHz WIFI 802.11ac VHT80 (LF)**

| WIFI         | 5GHz WIFI                                                                                                                                                                        |                                                                                                                                                                                 |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 LF                                                                                                                                                                |                                                                                                                                                                                 |
| 1+2          | Horizontal                                                                                                                                                                       | Vertical                                                                                                                                                                        |
| QP /<br>Peak |  <p>Site : 03CH13-HV<br/> Condition : QP 3m 82L06_37059A01 HORIZONTAL<br/> Detector : Peak</p> |  <p>Site : 03CH13-HV<br/> Condition : QP 3m 82L06_37059A01 VERTICAL<br/> Detector : Peak</p> |

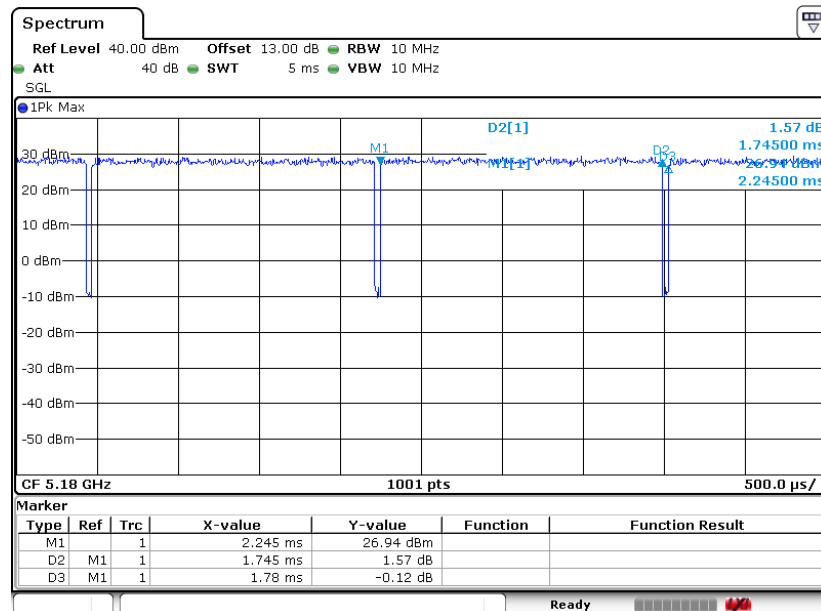
## Appendix E. Duty Cycle Plots

| Antenna | Band                          | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting | Duty Factor(dB) |
|---------|-------------------------------|---------------|-------|----------|-------------|-----------------|
| 1+2     | 802.11a for Ant 1             | 98.10         | -     | -        | 10Hz        | 0.08            |
| 1+2     | 802.11a for Ant 2             | 98.10         | -     | -        | 10Hz        | 0.08            |
| 1+2     | 5GHz 802.11n HT20 for Ant 1   | 98.02         | -     | -        | 10Hz        | 0.09            |
| 1+2     | 5GHz 802.11n HT20 for Ant 2   | 98.02         | -     | -        | 10Hz        | 0.09            |
| 1+2     | 5GHz 802.11n HT40 for Ant 1   | 96.07         | 855   | 1.17     | 3kHz        | 0.17            |
| 1+2     | 5GHz 802.11n HT40 for Ant 2   | 96.07         | 855   | 1.17     | 3kHz        | 0.17            |
| 1+2     | 5GHz 802.11ac VHT20 for Ant 1 | 98.03         | 1745  | 0.57     | 10Hz        | 0.09            |
| 1+2     | 5GHz 802.11ac VHT20 for Ant 2 | 98.03         | 1745  | 0.57     | 10Hz        | 0.09            |
| 1+2     | 5GHz 802.11ac VHT40 for Ant 1 | 96.09         | 860   | 1.16     | 3kHz        | 0.17            |
| 1+2     | 5GHz 802.11ac VHT40 for Ant 2 | 96.09         | 860   | 1.16     | 3kHz        | 0.17            |
| 1+2     | 5GHz 802.11ac VHT80 for Ant 1 | 95.56         | 860   | 1.16     | 3kHz        | 0.20            |
| 1+2     | 5GHz 802.11ac VHT80 for Ant 2 | 95.56         | 860   | 1.16     | 3kHz        | 0.20            |

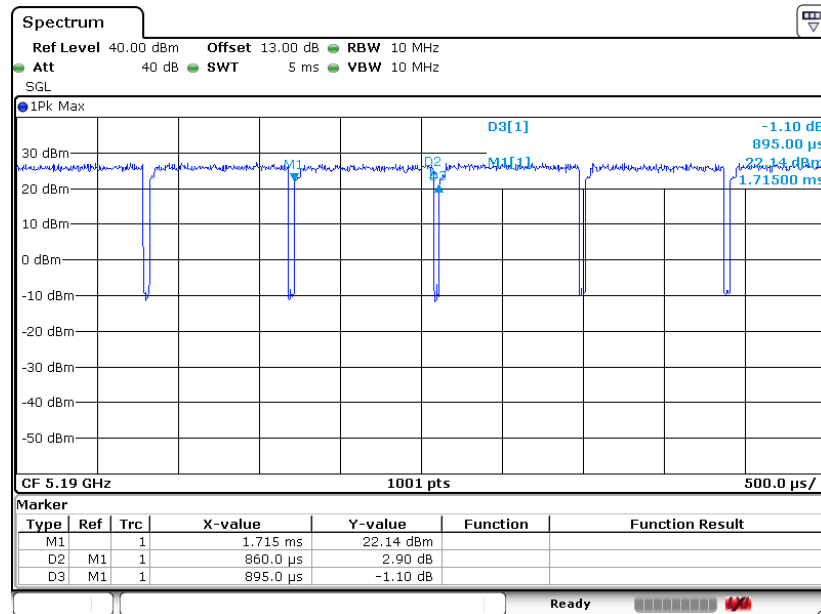
**MIMO <Ant. 1>****802.11a****802.11n HT20**

**802.11n HT40**


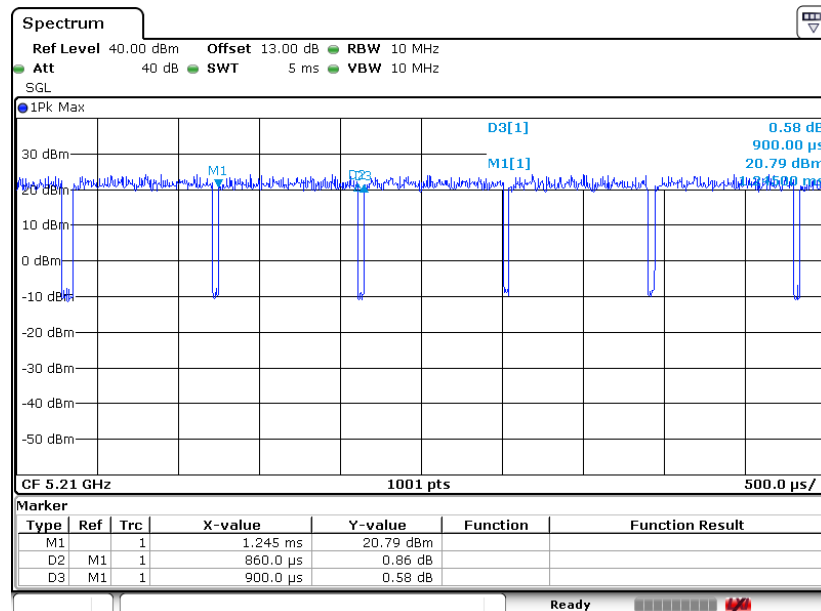
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**802.11ac VHT20**


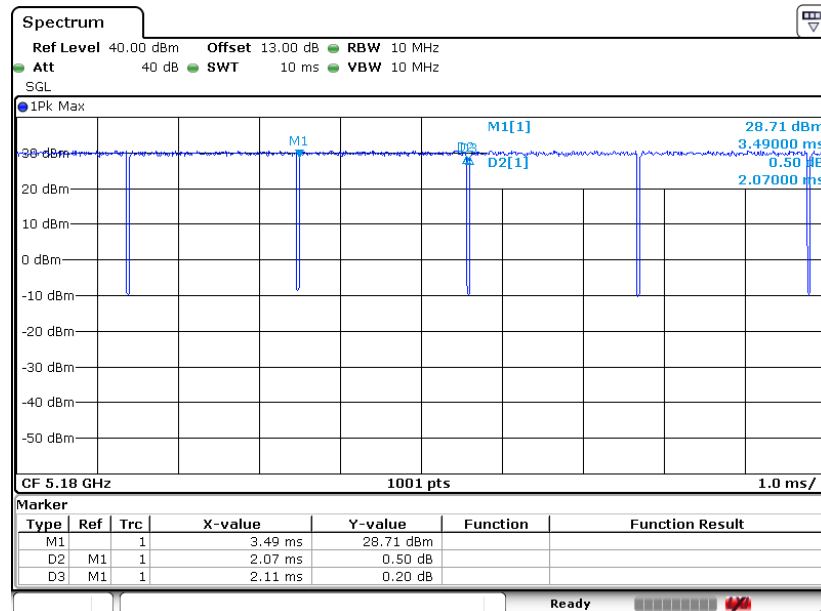
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**802.11ac VHT40**


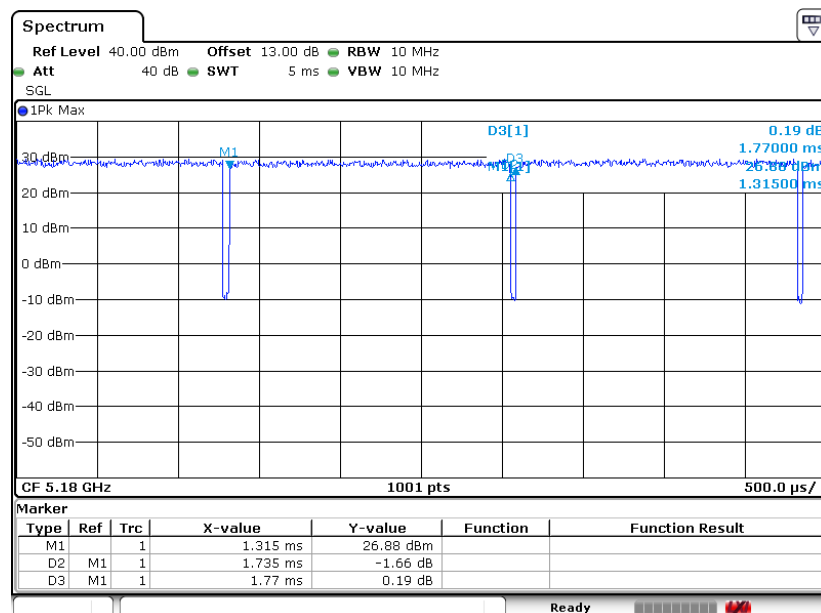
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**802.11ac VHT80**


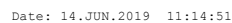
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**MIMO <Ant. 2>****802.11a**

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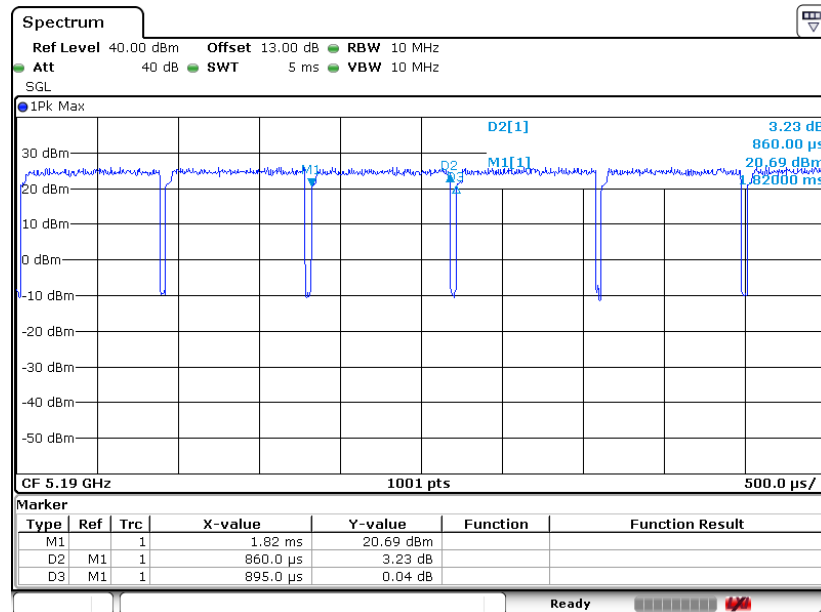
**802.11n HT20**

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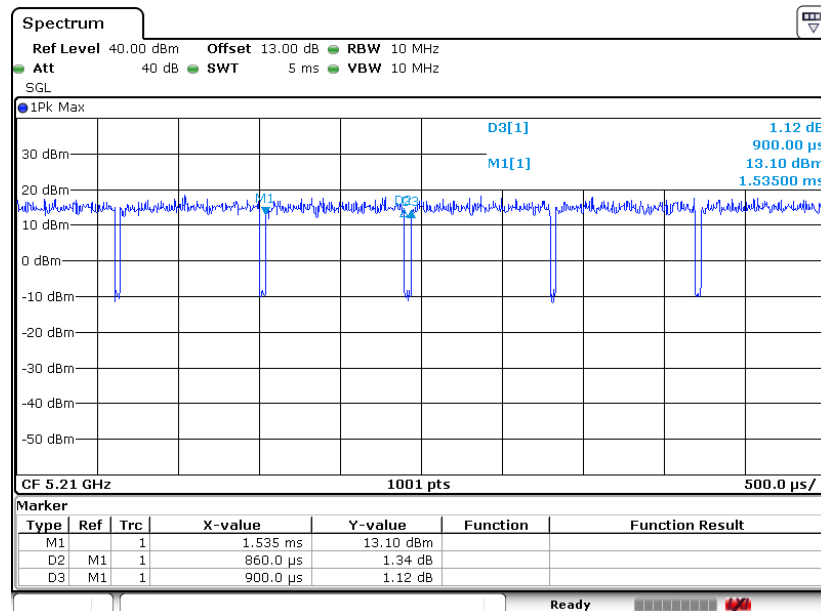


## 802.11ac VHT20



**802.11ac VHT40**


Date: 14.JUN.2019 11:27:51

**802.11ac VHT80**


Date: 14.JUN.2019 11:34:34