



# FCC RADIO TEST REPORT

**FCC ID** : APYHRO00303  
**Equipment** : Smart phone  
**Brand Name** : SHARP  
**Model Name** : APYHRO00303  
**Applicant** : SHARP CORPORATION  
1 Takumi-Cho, Sakai-Ku, Sakai-Shi, Osaka 590-8522, Japan  
**Manufacturer** : SHARP CORPORATION  
1 Takumi-Cho, Sakai-Ku, Sakai-Shi, Osaka 590-8522, Japan  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Sep. 07, 2021 and testing was started from Sep. 20, 2021 and completed on Oct. 08, 2021. 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 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.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



## Table of Contents

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>History of this test report.....</b>                      | <b>3</b>  |
| <b>Summary of Test Result.....</b>                           | <b>4</b>  |
| <b>1 General Description .....</b>                           | <b>5</b>  |
| 1.1 Product Feature of Equipment Under Test.....             | 5         |
| 1.2 Modification of EUT .....                                | 5         |
| 1.3 Testing Location .....                                   | 6         |
| 1.4 Applicable Standards.....                                | 6         |
| <b>2 Test Configuration of Equipment Under Test .....</b>    | <b>7</b>  |
| 2.1 Carrier Frequency and Channel .....                      | 7         |
| 2.2 Test Mode.....                                           | 8         |
| 2.3 Connection Diagram of Test System.....                   | 9         |
| 2.4 Support Unit used in test configuration and system ..... | 10        |
| 2.5 EUT Operation Test Setup .....                           | 10        |
| 2.6 Measurement Results Explanation Example.....             | 10        |
| <b>3 Test Result .....</b>                                   | <b>11</b> |
| 3.1 26dB & 99% Occupied Bandwidth Measurement .....          | 11        |
| 3.2 Maximum Conducted Output Power Measurement .....         | 13        |
| 3.3 Power Spectral Density Measurement .....                 | 15        |
| 3.4 Unwanted Emissions Measurement.....                      | 17        |
| 3.5 AC Conducted Emission Measurement.....                   | 22        |
| 3.6 Antenna Requirements.....                                | 24        |
| <b>4 List of Measuring Equipment.....</b>                    | <b>25</b> |
| <b>5 Uncertainty of Evaluation .....</b>                     | <b>27</b> |
| <b>Appendix A. Conducted Test Results</b>                    |           |
| <b>Appendix B. AC Conducted Emission Test Result</b>         |           |
| <b>Appendix C. Radiated Spurious Emission</b>                |           |
| <b>Appendix D. Radiated Spurious Emission Plots</b>          |           |
| <b>Appendix E. Duty Cycle Plots</b>                          |           |
| <b>Appendix F. Setup Photographs</b>                         |           |



## History of this test report

| Report No. | Version | Description                  | Issued Date   |
|------------|---------|------------------------------|---------------|
| FR190730E  | 01      | Initial issue of report      | Oct. 28, 2021 |
| FR190730E  | 02      | Revise applicant information | Nov. 01, 2021 |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |
|            |         |                              |               |

## 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>0.58 dB at<br>5459.680 MHz |
| 3.5           | 15.207              | AC Conducted Emission          | Pass               | Under limit<br>9.53 dB at<br>0.497 MHz    |
| 3.6           | 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: Keven Cheng**

**Report Producer: Tina Chuang**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS

| Product Specification subjective to this standard |                                       |       |
|---------------------------------------------------|---------------------------------------|-------|
| Antenna Type                                      | WWAN                                  |       |
|                                                   | <Ant.0>: PIFA Antenna                 |       |
|                                                   | <Ant.1>: PIFA Antenna                 |       |
|                                                   | <Ant.2>: PIFA Antenna                 |       |
|                                                   | WLAN: Loop Antenna                    |       |
|                                                   | Bluetooth: Loop Antenna               |       |
|                                                   | GPS/Glonass/BDS/Galileo: PIFA Antenna |       |
|                                                   | NFC: Loop Antenna                     |       |
| Antenna information                               |                                       |       |
| 5150 MHz ~ 5250 MHz                               | Peak Gain (dBi)                       | -0.19 |
| 5250 MHz ~ 5350 MHz                               | Peak Gain (dBi)                       | -0.19 |
| 5470 MHz ~ 5725 MHz                               | Peak Gain (dBi)                       | 0.49  |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

## 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., Taoyuan City 333, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| Test Site No.      | <b>Sporton Site No.</b><br>TH02-HY, CO05-HY                                                                            |

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

|                    |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | Sporton International Inc. Wensan Laboratory                                                                                                     |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| Test Site No.      | <b>Sporton Site No.</b><br>03CH13-HY (TAF Code: 3786)                                                                                            |
| Remark             | The Radiated Spurious Emissions test item subcontracted to Sporton International Inc. Wensan Laboratory.                                         |

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

FCC designation No.: TW1190 and TW3786

### 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.
- ♦ 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. The TAF code is not including all the FCC KDB listed without accreditation.
3. 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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Z plane as worst plane
- 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        |

**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.

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

| Test Cases            |                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------|
| AC Conducted Emission | Mode 1: Bluetooth Link + WLAN (5GHz) Link + Earphone + MPEG4 + USB Cable (Charging from Adapter) |

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

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

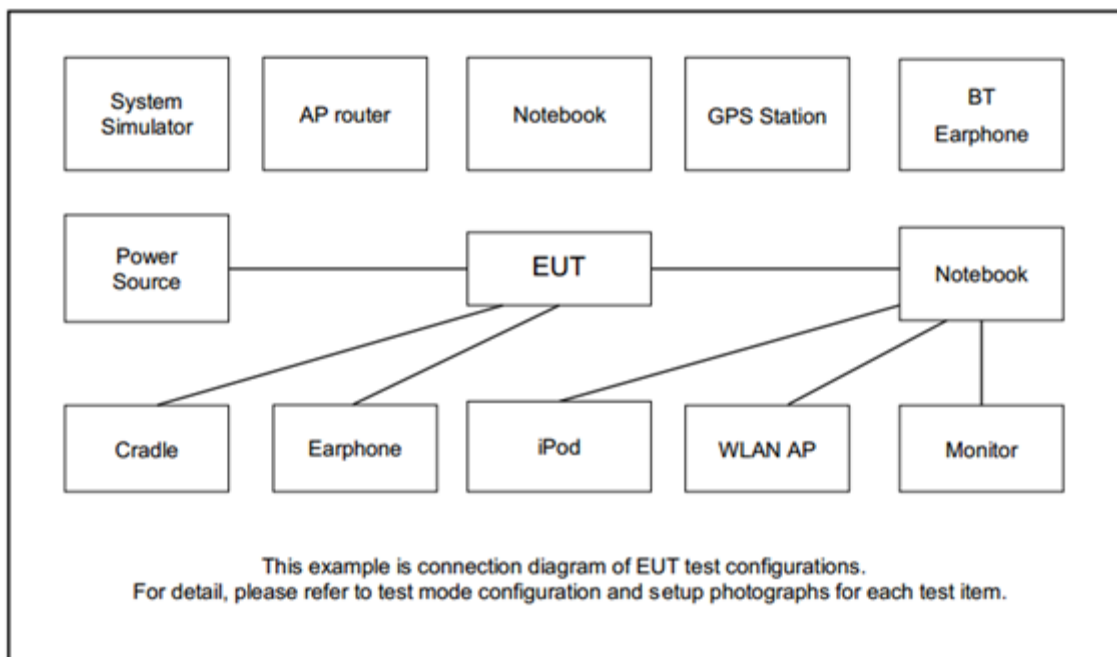


| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11n HT40           | 802.11n HT40            | 802.11n HT40            |
| L     | Low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

| 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   | -                      | -                       | -                       |

**Remark:** For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

| Item | Equipment          | Brand Name    | Model Name    | FCC ID      | Data Cable      | Power Cord                                                 |
|------|--------------------|---------------|---------------|-------------|-----------------|------------------------------------------------------------|
| 1.   | Bluetooth Earphone | Sony Ericsson | MW600         | PY7DDA-2029 | N/A             | N/A                                                        |
| 2.   | WLAN AP            | ASUS          | RT-AC66U      | MSQ-RTAC66U | N/A             | Unshielded, 1.8 m                                          |
| 3.   | Notebook           | Dell          | Latitude 3400 | FCC DoC     | N/A             | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 4.   | Earphone           | Nokia         | WH-108        | FCC DoC     | Unshielded,1.5m | N/A                                                        |

## 2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Ver4.0.00158.0" 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 4.2 dB and 10 dB attenuator.

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

### 3 Test Result

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

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

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

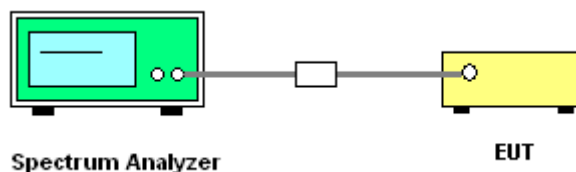
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

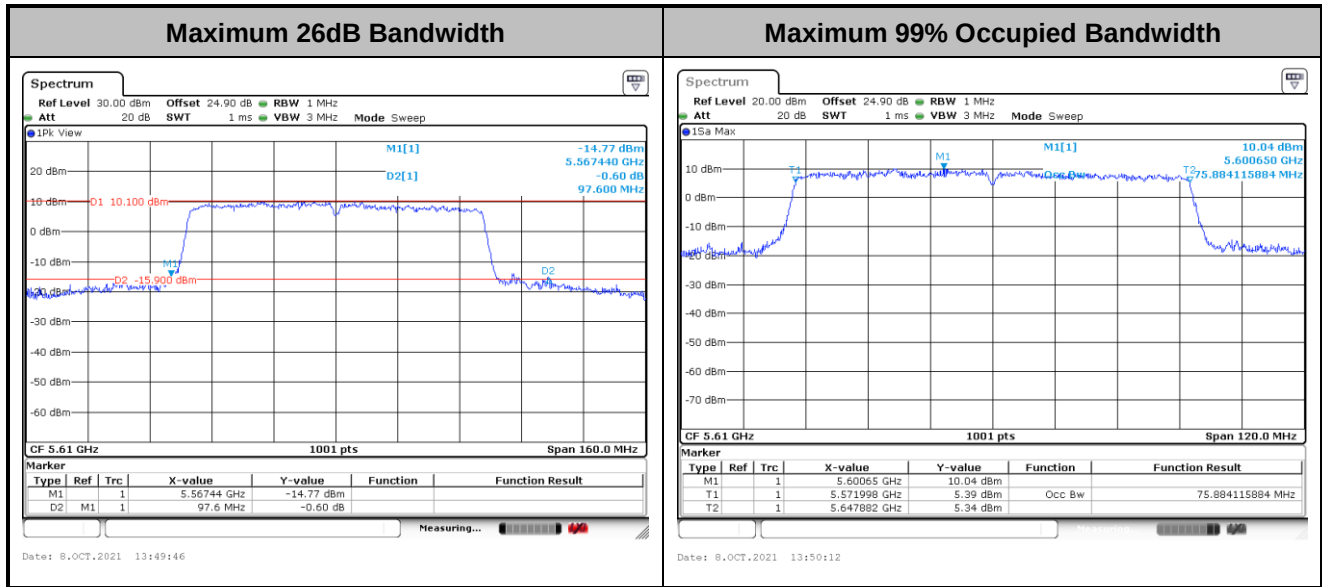
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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

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

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

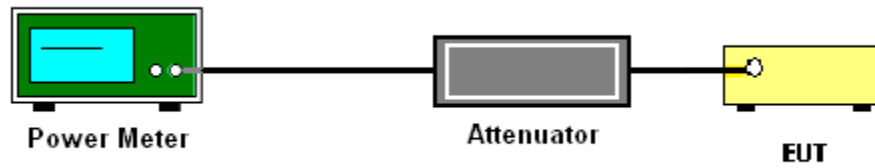
### 3.2.3 Test Procedures

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

Method PM-G (Measurement using a gated 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.

### 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.

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.

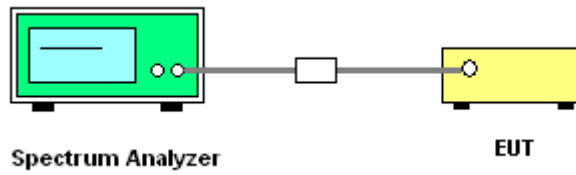
Section F) Maximum power spectral density.

##### **# Method SA-3 #**

(power averaging (rms) detection with max hold):

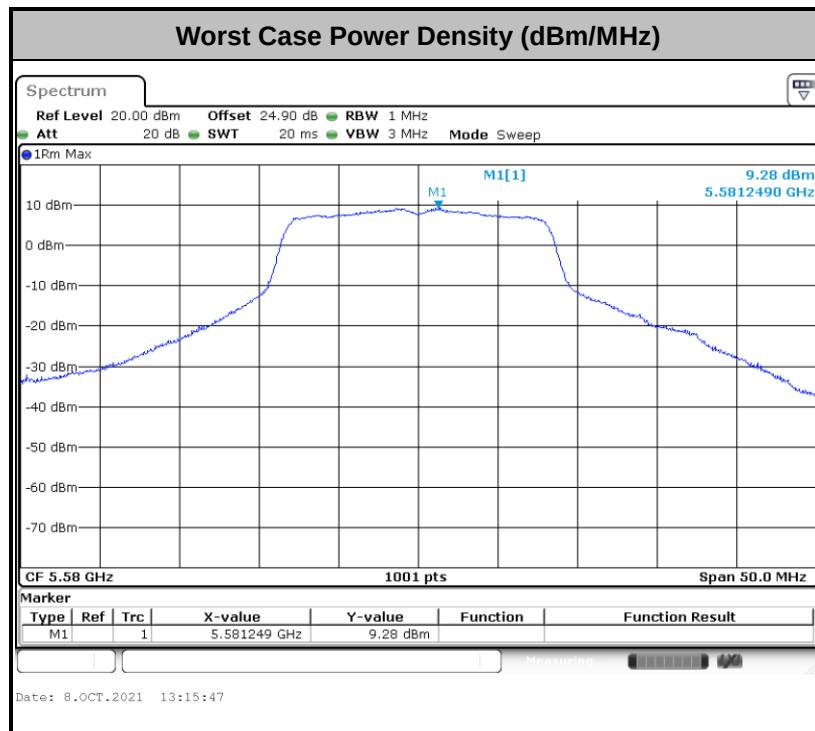
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time  $\leq$  (number of points in sweep)  $\times$  T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.  
Detector = power averaging (rms).
  - Trace mode = max hold.
  - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
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.

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





### 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.

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

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

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit 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.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

### 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 1000 MHz

- 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

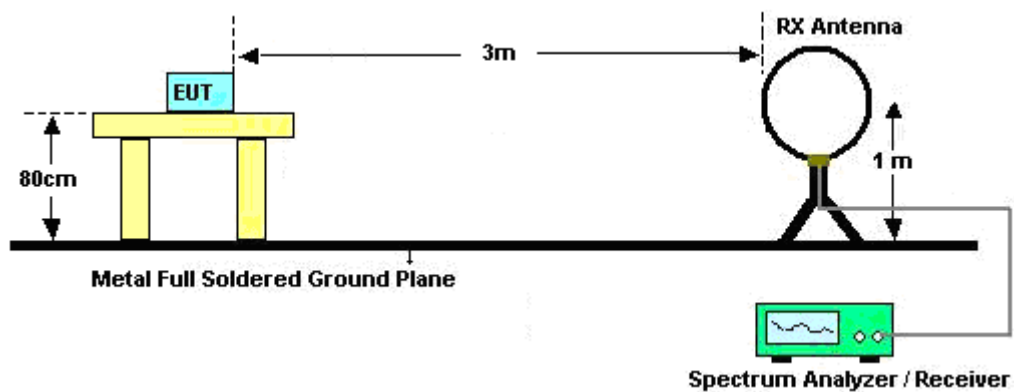
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

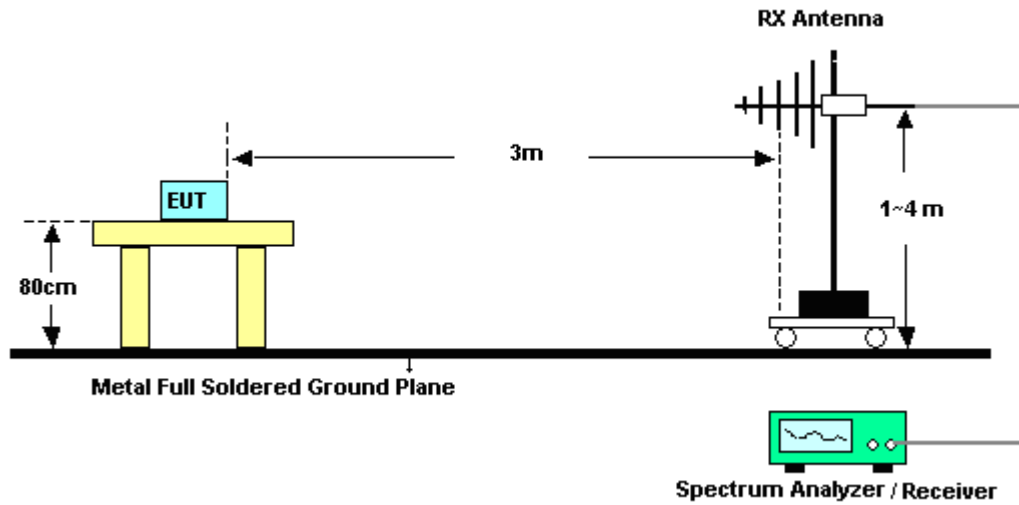
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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. Radiated testing below 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0degree to 360 degree to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0degree to 360 degree to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6dB margin against average limit line, the position is marked as “-”.

### 3.4.4 Test Setup

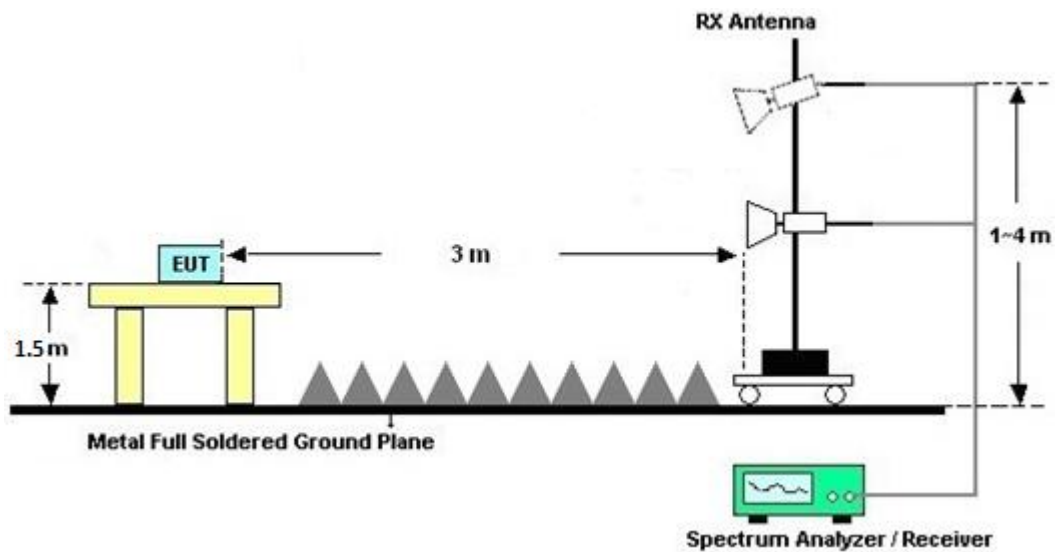
**For radiated emissions below 30MHz**



For radiated emissions from 30MHz to 1GHz



For radiated test 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 adequate comparison measurement 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.

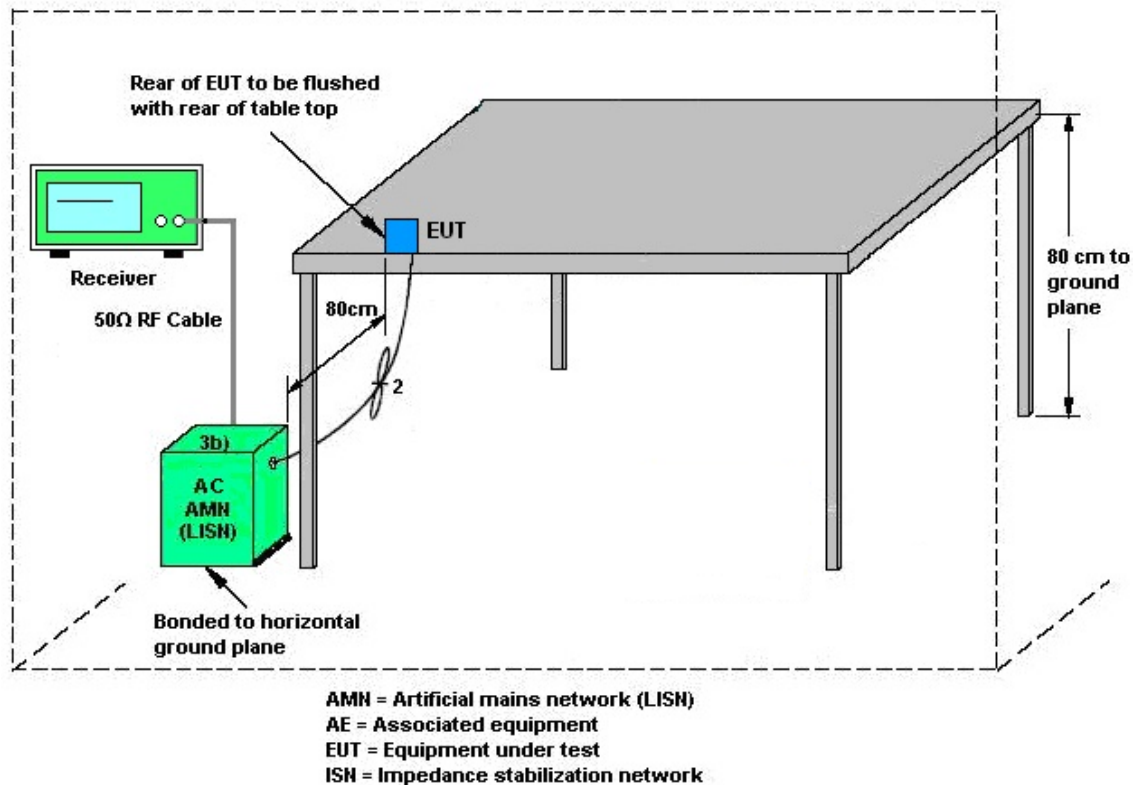
#### 3.5.2 Measuring Instruments

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 shall 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 Antenna Requirements**

### **3.6.1 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.

### **3.6.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.6.3 Antenna Gain**

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





## 4 List of Measuring Equipment

| Instrument            | Brand Name        | Model No.                            | Serial No.        | Characteristics             | Calibration Date | Test Date                       | Due Date      | Remark                   |
|-----------------------|-------------------|--------------------------------------|-------------------|-----------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna          | Rohde & Schwarz   | HFH2-Z2                              | 100315            | 9 kHz~30 MHz                | Jan. 04, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Jan. 03, 2022 | Radiation<br>(03CH13-HY) |
| Horn Antenna          | SCHWARZBECK       | BBHA 9120 D                          | 9120D-1241        | 1GHz ~ 18GHz                | Jul. 13, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Jul. 12, 2022 | Radiation<br>(03CH13-HY) |
| Horn Antenna          | SCHWARZBECK       | BBHA 9120 D                          | 9120D-02294       | 1GHz ~ 18GHz                | Jun. 23, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Jun. 22, 2022 | Radiation<br>(03CH13-HY) |
| SHF-EHF Horn Antenna  | SCHWARZBECK       | BBHA 9170                            | BBHA9170584       | 18GHz- 40GHz                | Dec. 11, 2020    | Oct. 03, 2021~<br>Oct. 07, 2021 | Dec. 10, 2021 | Radiation<br>(03CH13-HY) |
| Amplifier             | Sonoma-Instrument | 310 N                                | 187282            | 9KHz~1GHz                   | Dec. 16, 2020    | Oct. 03, 2021~<br>Oct. 07, 2021 | Dec. 15, 2021 | Radiation<br>(03CH13-HY) |
| Preamplifier          | MITEQ             | AMF-7D-0010<br>1800-30-10P           | 1590074           | 1GHz~18GHz                  | May 18, 2021     | Oct. 03, 2021~<br>Oct. 07, 2021 | May 17, 2022  | Radiation<br>(03CH13-HY) |
| Preamplifier          | Keysight          | 83017A                               | MY53270147        | 1GHz~26.5GHz                | Oct. 28, 2020    | Oct. 03, 2021~<br>Oct. 07, 2021 | Oct. 27, 2021 | Radiation<br>(03CH13-HY) |
| Preamplifier          | EMEC              | EM18G40G                             | 060715            | 18GHz ~ 40GHz               | Dec. 11, 2020    | Oct. 03, 2021~<br>Oct. 07, 2021 | Dec. 10, 2021 | Radiation<br>(03CH13-HY) |
| Spectrum Analyzer     | Keysight          | N9010A                               | MY55370526        | 10Hz~44GHz                  | Mar. 18, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Mar. 17, 2022 | Radiation<br>(03CH13-HY) |
| Antenna Mast          | EMEC              | AM-BS-4500-B                         | N/A               | 1m~4m                       | N/A              | Oct. 03, 2021~<br>Oct. 07, 2021 | N/A           | Radiation<br>(03CH13-HY) |
| Turn Table            | EMEC              | TT2000                               | N/A               | 0~360 Degree                | N/A              | Oct. 03, 2021~<br>Oct. 07, 2021 | N/A           | Radiation<br>(03CH13-HY) |
| Software              | Audix             | E3<br>6.2009-8-24                    | RK-000992         | N/A                         | N/A              | Oct. 03, 2021~<br>Oct. 07, 2021 | N/A           | Radiation<br>(03CH13-HY) |
| RF Cable              | HUBER + SUHNER    | SUCOFLEX<br>126E                     | 0030/126E         | 30M-18G                     | Feb. 10, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Feb. 09, 2022 | Radiation<br>(03CH13-HY) |
| RF Cable              | HUBER + SUHNER    | SUCOFLEX<br>104                      | 804793/4          | 30M-18G                     | Feb. 10, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Feb. 09, 2022 | Radiation<br>(03CH13-HY) |
| RF Cable              | HUBER + SUHNER    | SUCOFLEX<br>102                      | 505134/2          | 30M~40GHz                   | Feb. 22, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Feb. 21, 2022 | Radiation<br>(03CH13-HY) |
| RF Cable              | HUBER + SUHNER    | SUCOFLEX<br>102                      | MY4274/2          | 30MHz~40GHz                 | Mar. 11, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Mar. 10, 2022 | Radiation<br>(03CH13-HY) |
| RF Cable              | HUBER + SUHNER    | SUCOFLEX<br>104                      | MY24961/4         | 30M-18G                     | Feb. 10, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Feb. 09, 2022 | Radiation<br>(03CH13-HY) |
| RF Cable              | HUBER + SUHNER    | SUCOFLEX<br>104                      | MY9837/4PE        | 9kHz~30MHz                  | Mar. 11, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Mar. 10, 2022 | Radiation<br>(03CH13-HY) |
| Filter                | Wainwright        | WLK4-1000-15<br>30-8000-40SS         | SN12              | 1.53GHz Low<br>Pass Filter  | Sep. 14, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Sep. 13, 2022 | Radiation<br>(03CH13-HY) |
| Filter                | Wainwright        | WHKX8-5872.<br>5-6750-18000-<br>40ST | SN5               | 6.75GHz High<br>Pass Filter | Mar. 11, 2021    | Oct. 03, 2021~<br>Oct. 07, 2021 | Mar. 10, 2022 | Radiation<br>(03CH13-HY) |
| Hygrometer            | Testo             | 608-H1                               | 34893241          | N/A                         | Mar. 01, 2021    | Sep. 20, 2021~<br>Oct. 08,2021  | Feb. 28, 2022 | Conducted<br>(TH02-HY)   |
| Power Sensor          | DARE              | RPR3006W                             | 16I00054SNO<br>12 | 10MHz~6GHz                  | Dec. 16, 2020    | Sep. 20, 2021~<br>Oct. 08,2021  | Dec. 15, 2021 | Conducted<br>(TH02-HY)   |
| Signal Analyzer       | Rohde & Schwarz   | FSV40                                | 101565            | 10Hz ~ 40GHz                | Nov. 13, 2020    | Sep. 20, 2021~<br>Oct. 08,2021  | Nov. 12, 2021 | Conducted<br>(TH02-HY)   |
| Switch Box & RF Cable | EM Electronics    | EMSW18SE                             | SW200302          | N/A                         | Mar. 17, 2021    | Sep. 20, 2021~<br>Oct. 08,2021  | Mar. 16, 2022 | Conducted<br>(TH02-HY)   |



| Instrument        | Brand Name      | Model No.    | Serial No. | Characteristics | Calibration Date | Test Date     | Due Date      | Remark               |
|-------------------|-----------------|--------------|------------|-----------------|------------------|---------------|---------------|----------------------|
| AC Power Source   | ChainTek        | APC-1000W    | N/A        | N/A             | N/A              | Sep. 27, 2021 | N/A           | Conduction (CO05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESR3         | 102388     | 9kHz~3.6GHz     | Nov. 30, 2020    | Sep. 27, 2021 | Nov. 29, 2021 | Conduction (CO05-HY) |
| Hygrometer        | Testo           | 608-H1       | 34913912   | N/A             | Nov. 18, 2020    | Sep. 27, 2021 | Nov. 17, 2021 | Conduction (CO05-HY) |
| LISN              | Rohde & Schwarz | ENV216       | 100080     | 9kHz~30MHz      | Dec. 01, 2020    | Sep. 27, 2021 | Nov. 30, 2021 | Conduction (CO05-HY) |
| Software          | Rohde & Schwarz | EMC32 V10.30 | N/A        | N/A             | N/A              | Sep. 27, 2021 | N/A           | Conduction (CO05-HY) |
| Pulse Limiter     | SCHWARZBECK     | VTSD 9561-FN | 00691      | N/A             | Jul. 28, 2021    | Sep. 27, 2021 | Jul. 27, 2022 | Conduction (CO05-HY) |
| LISN Cable        | MVE             | RG-400       | 260260     | N/A             | Dec. 31, 2020    | Sep. 27, 2021 | Dec. 30, 2021 | Conduction (CO05-HY) |



## 5 Uncertainty of Evaluation

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

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.3 dB |
|-------------------------------------------------------------------------|--------|

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

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.3 dB |
|-------------------------------------------------------------------------|--------|

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

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.8 dB |
|-------------------------------------------------------------------------|--------|

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

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.9 dB |
|-------------------------------------------------------------------------|--------|

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

|                |                     |                    |           |    |
|----------------|---------------------|--------------------|-----------|----|
| Test Engineer: | Jacob Yu            | Temperature:       | 22.9~24.9 | °C |
| Test Date:     | 2021/9/20-2021/10/8 | Relative Humidity: | 50.4~52.4 | %  |

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

| Band I single antenna |           |     |     |             |                     |   |                       |   |                                    |   |                                   |   |      |
|-----------------------|-----------|-----|-----|-------------|---------------------|---|-----------------------|---|------------------------------------|---|-----------------------------------|---|------|
| Mod.                  | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |   | 26 dB Bandwidth (MHz) |   | IC 99% Bandwidth Power Limit (dBm) |   | IC 99% Bandwidth EIRP Limit (dBm) |   | Note |
|                       |           |     |     |             | Ant 4               | - | Ant 4                 | - | Ant 4                              | - | Ant 4                             | - |      |
| 11a                   | 6Mbps     | 1   | 36  | 5180        | 17.63               | - | 25.54                 | - | -                                  | - | 22.46                             | - |      |
| 11a                   | 6Mbps     | 1   | 44  | 5220        | 17.68               | - | 25.82                 | - | -                                  | - | 22.48                             | - |      |
| 11a                   | 6Mbps     | 1   | 48  | 5240        | 17.73               | - | 25.80                 | - | -                                  | - | 22.49                             | - |      |
| HT20                  | MCS0      | 1   | 36  | 5180        | 18.88               | - | 26.90                 | - | -                                  | - | 22.76                             | - |      |
| HT20                  | MCS0      | 1   | 44  | 5220        | 18.93               | - | 27.10                 | - | -                                  | - | 22.77                             | - |      |
| HT20                  | MCS0      | 1   | 48  | 5240        | 18.93               | - | 26.65                 | - | -                                  | - | 22.77                             | - |      |
| HT40                  | MCS0      | 1   | 38  | 5190        | 36.66               | - | 41.94                 | - | -                                  | - | 23.01                             | - |      |
| HT40                  | MCS0      | 1   | 46  | 5230        | 36.66               | - | 42.12                 | - | -                                  | - | 23.01                             | - |      |
| VHT80                 | MCS0      | 1   | 42  | 5210        | 75.54               | - | 83.52                 | - | -                                  | - | 23.01                             | - |      |

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

| FCC Band I single antenna |           |     |     |             |                               |   |     |                                 |   |          |   |  |           |
|---------------------------|-----------|-----|-----|-------------|-------------------------------|---|-----|---------------------------------|---|----------|---|--|-----------|
| Mod.                      | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |   |     | FCC Conducted Power Limit (dBm) |   | DG (dBi) |   |  | Pass/Fail |
|                           |           |     |     |             | Ant 4                         | - | SUM | Ant 4                           | - | Ant 4    | - |  |           |
| 11a                       | 6Mbps     | 1   | 36  | 5180        | 18.80                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| 11a                       | 6Mbps     | 1   | 44  | 5220        | 18.70                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| 11a                       | 6Mbps     | 1   | 48  | 5240        | 18.90                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| HT20                      | MCS0      | 1   | 36  | 5180        | 18.70                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| HT20                      | MCS0      | 1   | 44  | 5220        | 18.90                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| HT20                      | MCS0      | 1   | 48  | 5240        | 18.70                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| HT40                      | MCS0      | 1   | 38  | 5190        | 15.40                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| HT40                      | MCS0      | 1   | 46  | 5230        | 18.70                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| VHT20                     | MCS0      | 1   | 36  | 5180        | 18.60                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| VHT20                     | MCS0      | 1   | 44  | 5220        | 18.80                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| VHT20                     | MCS0      | 1   | 48  | 5240        | 18.60                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| VHT40                     | MCS0      | 1   | 38  | 5190        | 15.30                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| VHT40                     | MCS0      | 1   | 46  | 5230        | 18.60                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |
| VHT80                     | MCS0      | 1   | 42  | 5210        | 15.90                         | - |     | 24.00                           | - | -0.19    | - |  | Pass      |

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

| FCC Band I single antenna |           |     |     |             |                                 |   |     |                             |   |          |   |  |            |
|---------------------------|-----------|-----|-----|-------------|---------------------------------|---|-----|-----------------------------|---|----------|---|--|------------|
| Mod.                      | Data Rate | NTX | CH. | Freq. (MHz) | Average Power Density (dBm/MHz) |   |     | Average PSD Limit (dBm/MHz) |   | DG (dBi) |   |  | Pass /Fail |
|                           |           |     |     |             | Ant 4                           | - | SUM | Ant 4                       | - | Ant 4    | - |  |            |
| 11a                       | 6Mbps     | 1   | 36  | 5180        | 8.95                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| 11a                       | 6Mbps     | 1   | 44  | 5220        | 8.83                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| 11a                       | 6Mbps     | 1   | 48  | 5240        | 8.92                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT20                      | MCS0      | 1   | 36  | 5180        | 8.73                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT20                      | MCS0      | 1   | 44  | 5220        | 8.96                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT20                      | MCS0      | 1   | 48  | 5240        | 8.79                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT40                      | MCS0      | 1   | 38  | 5190        | 2.11                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT40                      | MCS0      | 1   | 46  | 5230        | 5.32                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| VHT80                     | MCS0      | 1   | 42  | 5210        | 0.43                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |

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

| Band II single antenna |           |     |     |             |                     |   |                       |   |                                    |   |                                   |   |                                      |   |      |
|------------------------|-----------|-----|-----|-------------|---------------------|---|-----------------------|---|------------------------------------|---|-----------------------------------|---|--------------------------------------|---|------|
| Mod.                   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |   | 26 dB Bandwidth (MHz) |   | IC 99% Bandwidth Power Limit (dBm) |   | IC 99% Bandwidth EIRP Limit (dBm) |   | FCC 26dB Bandwidth Power Limit (dBm) |   | Note |
|                        |           |     |     |             | Ant 4               | - | Ant 4                 | - | Ant 4                              | - | Ant 4                             | - | Ant 4                                | - |      |
| 11a                    | 6Mbps     | 1   | 52  | 5260        | 17.78               | - | 27.60                 | - | 23.50                              | - | 29.50                             | - | 23.98                                | - |      |
| 11a                    | 6Mbps     | 1   | 60  | 5300        | 17.73               | - | 26.15                 | - | 23.49                              | - | 29.49                             | - | 23.98                                | - |      |
| 11a                    | 6Mbps     | 1   | 64  | 5320        | 17.73               | - | 26.35                 | - | 23.49                              | - | 29.49                             | - | 23.98                                | - |      |
| HT20                   | MCS0      | 1   | 52  | 5260        | 18.93               | - | 27.20                 | - | 23.77                              | - | 29.77                             | - | 23.98                                | - |      |
| HT20                   | MCS0      | 1   | 60  | 5300        | 18.93               | - | 27.35                 | - | 23.77                              | - | 29.77                             | - | 23.98                                | - |      |
| HT20                   | MCS0      | 1   | 64  | 5320        | 18.83               | - | 26.65                 | - | 23.75                              | - | 29.75                             | - | 23.98                                | - |      |
| HT40                   | MCS0      | 1   | 54  | 5270        | 36.66               | - | 45.63                 | - | 23.98                              | - | 30.00                             | - | 23.98                                | - |      |
| HT40                   | MCS0      | 1   | 62  | 5310        | 36.66               | - | 41.76                 | - | 23.98                              | - | 30.00                             | - | 23.98                                | - |      |
| VHT80                  | MCS0      | 1   | 58  | 5290        | 75.64               | - | 84.32                 | - | 23.98                              | - | 30.00                             | - | 23.98                                | - |      |



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

| FCC Band II single antenna |           |     |     |             |                               |   |     |                                 |   |          |   |                        |           |
|----------------------------|-----------|-----|-----|-------------|-------------------------------|---|-----|---------------------------------|---|----------|---|------------------------|-----------|
| Mod.                       | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |   |     | FCC Conducted Power Limit (dBm) |   | DG (dBi) |   | EIRP Power Limit (dBm) | Pass/Fail |
|                            |           |     |     |             | Ant 4                         | - | SUM | Ant 4                           | - | Ant 4    | - |                        |           |
| 11a                        | 6Mbps     | 1   | 52  | 5260        | 19.00                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| 11a                        | 6Mbps     | 1   | 60  | 5300        | 19.00                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| 11a                        | 6Mbps     | 1   | 64  | 5320        | 18.90                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| HT20                       | MCS0      | 1   | 52  | 5260        | 18.80                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| HT20                       | MCS0      | 1   | 60  | 5300        | 18.80                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| HT20                       | MCS0      | 1   | 64  | 5320        | 18.70                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| HT40                       | MCS0      | 1   | 54  | 5270        | 18.70                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| HT40                       | MCS0      | 1   | 62  | 5310        | 13.70                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| VHT20                      | MCS0      | 1   | 52  | 5260        | 18.70                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| VHT20                      | MCS0      | 1   | 60  | 5300        | 18.70                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| VHT20                      | MCS0      | 1   | 64  | 5320        | 18.60                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| VHT40                      | MCS0      | 1   | 54  | 5270        | 18.60                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| VHT40                      | MCS0      | 1   | 62  | 5310        | 13.60                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |
| VHT80                      | MCS0      | 1   | 58  | 5290        | 13.60                         | - |     | 23.98                           | - | -0.19    | - | 30                     | Pass      |

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

| Band II single antenna |           |     |     |             |                                 |   |     |                             |   |          |   |  |            |
|------------------------|-----------|-----|-----|-------------|---------------------------------|---|-----|-----------------------------|---|----------|---|--|------------|
| Mod.                   | Data Rate | NTX | CH. | Freq. (MHz) | Average Power Density (dBm/MHz) |   |     | Average PSD Limit (dBm/MHz) |   | DG (dBi) |   |  | Pass /Fail |
|                        |           |     |     |             | Ant 4                           | - | SUM | Ant 4                       | - | Ant 4    | - |  |            |
| 11a                    | 6Mbps     | 1   | 52  | 5260        | 9.22                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| 11a                    | 6Mbps     | 1   | 60  | 5300        | 9.01                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| 11a                    | 6Mbps     | 1   | 64  | 5320        | 9.13                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT20                   | MCS0      | 1   | 52  | 5260        | 8.90                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT20                   | MCS0      | 1   | 60  | 5300        | 9.04                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT20                   | MCS0      | 1   | 64  | 5320        | 8.76                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT40                   | MCS0      | 1   | 54  | 5270        | 5.39                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| HT40                   | MCS0      | 1   | 62  | 5310        | 0.43                            | - |     | 11.00                       | - | -0.19    | - |  | Pass       |
| VHT80                  | MCS0      | 1   | 58  | 5290        | -1.55                           | - |     | 11.00                       | - | -0.19    | - |  | Pass       |

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

| Band III single antenna |           |     |     |             |                                 |   |                                   |   |                                    |   |                                   |   |                                      |   |                                           |      |
|-------------------------|-----------|-----|-----|-------------|---------------------------------|---|-----------------------------------|---|------------------------------------|---|-----------------------------------|---|--------------------------------------|---|-------------------------------------------|------|
| Mod.                    | Data Rate | NTX | 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 4                           | - | Ant 4                             | - | Ant 4                              | - | Ant 4                             | - | Ant 4                                | - | Ant 4                                     | -    |
| 11a                     | 6Mbps     | 1   | 100 | 5500        | 17.68                           | - | 25.45                             | - | 23.48                              | - | 29.48                             | - | 23.98                                | - | ----                                      | ---- |
| 11a                     | 6Mbps     | 1   | 116 | 5580        | 17.73                           | - | 26.75                             | - | 23.49                              | - | 29.49                             | - | 23.98                                | - | ----                                      | ---- |
| 11a                     | 6Mbps     | 1   | 140 | 5700        | 17.78                           | - | 26.05                             | - | 23.50                              | - | 29.50                             | - | 23.98                                | - | ----                                      | ---- |
| HT20                    | MCS0      | 1   | 100 | 5500        | 18.83                           | - | 27.05                             | - | 23.75                              | - | 29.75                             | - | 23.98                                | - | ----                                      | ---- |
| HT20                    | MCS0      | 1   | 116 | 5580        | 18.93                           | - | 27.55                             | - | 23.77                              | - | 29.77                             | - | 23.98                                | - | ----                                      | ---- |
| HT20                    | MCS0      | 1   | 140 | 5700        | 19.08                           | - | 28.85                             | - | 23.81                              | - | 29.81                             | - | 23.98                                | - | ----                                      | ---- |
| HT40                    | MCS0      | 1   | 102 | 5510        | 36.56                           | - | 41.49                             | - | 23.98                              | - | 30.00                             | - | 23.98                                | - | ----                                      | ---- |
| HT40                    | MCS0      | 1   | 110 | 5550        | 36.76                           | - | 41.76                             | - | 23.98                              | - | 30.00                             | - | 23.98                                | - | ----                                      | ---- |
| HT40                    | MCS0      | 1   | 134 | 5670        | 36.76                           | - | 42.21                             | - | 23.98                              | - | 30.00                             | - | 23.98                                | - | ----                                      | ---- |
| VHT80                   | MCS0      | 1   | 106 | 5530        | 75.76                           | - | 84.32                             | - | 23.98                              | - | 30.00                             | - | 23.98                                | - | ----                                      | ---- |
| VHT80                   | MCS0      | 1   | 122 | 5610        | 75.88                           | - | 97.60                             | - | 23.98                              | - | 30.00                             | - | 23.98                                | - | ----                                      | ---- |

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

| FCC Band III single antenna |           |     |     |             |                               |   |     |                                 |   |          |   |                        |           |
|-----------------------------|-----------|-----|-----|-------------|-------------------------------|---|-----|---------------------------------|---|----------|---|------------------------|-----------|
| Mod.                        | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |   |     | FCC Conducted Power Limit (dBm) |   | DG (dBi) |   | EIRP Power Limit (dBm) | Pass/Fail |
|                             |           |     |     |             | Ant 4                         | - | SUM | Ant 4                           | - | Ant 4    | - |                        |           |
| 11a                         | 6Mbps     | 1   | 100 | 5500        | 18.90                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| 11a                         | 6Mbps     | 1   | 116 | 5580        | 19.00                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| 11a                         | 6Mbps     | 1   | 140 | 5700        | 18.80                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| HT20                        | MCS0      | 1   | 100 | 5500        | 18.70                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| HT20                        | MCS0      | 1   | 116 | 5580        | 18.90                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| HT20                        | MCS0      | 1   | 140 | 5700        | 19.00                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| HT40                        | MCS0      | 1   | 102 | 5510        | 17.50                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| HT40                        | MCS0      | 1   | 110 | 5550        | 18.80                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| HT40                        | MCS0      | 1   | 134 | 5670        | 18.90                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| VHT20                       | MCS0      | 1   | 100 | 5500        | 18.60                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| VHT20                       | MCS0      | 1   | 116 | 5580        | 18.80                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| VHT20                       | MCS0      | 1   | 140 | 5700        | 18.90                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| VHT40                       | MCS0      | 1   | 102 | 5510        | 17.40                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| VHT40                       | MCS0      | 1   | 110 | 5550        | 18.70                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| VHT40                       | MCS0      | 1   | 134 | 5670        | 18.80                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| VHT80                       | MCS0      | 1   | 106 | 5530        | 15.10                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |
| VHT80                       | MCS0      | 1   | 122 | 5610        | 18.70                         | - |     | 23.98                           | - | 0.49     | - | 30                     | Pass      |

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

| Band III single antenna |           |     |     |             |                                 |   |     |                             |   |          |   |  |            |
|-------------------------|-----------|-----|-----|-------------|---------------------------------|---|-----|-----------------------------|---|----------|---|--|------------|
| Mod.                    | Data Rate | NTX | CH. | Freq. (MHz) | Average Power Density (dBm/MHz) |   |     | Average PSD Limit (dBm/MHz) |   | DG (dBi) |   |  | Pass /Fail |
|                         |           |     |     |             | Ant 4                           | - | SUM | Ant 4                       | - | Ant 4    | - |  |            |
| 11a                     | 6Mbps     | 1   | 100 | 5500        | 8.94                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| 11a                     | 6Mbps     | 1   | 116 | 5580        | 9.28                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| 11a                     | 6Mbps     | 1   | 140 | 5700        | 8.91                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| HT20                    | MCS0      | 1   | 100 | 5500        | 8.88                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| HT20                    | MCS0      | 1   | 116 | 5580        | 9.27                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| HT20                    | MCS0      | 1   | 140 | 5700        | 9.27                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| HT40                    | MCS0      | 1   | 102 | 5510        | 4.31                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| HT40                    | MCS0      | 1   | 110 | 5550        | 5.52                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| HT40                    | MCS0      | 1   | 134 | 5670        | 5.67                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| VHT80                   | MCS0      | 1   | 106 | 5530        | -0.22                           | - |     | 11.00                       | - | 0.49     | - |  | Pass       |
| VHT80                   | MCS0      | 1   | 122 | 5610        | 3.43                            | - |     | 11.00                       | - | 0.49     | - |  | Pass       |



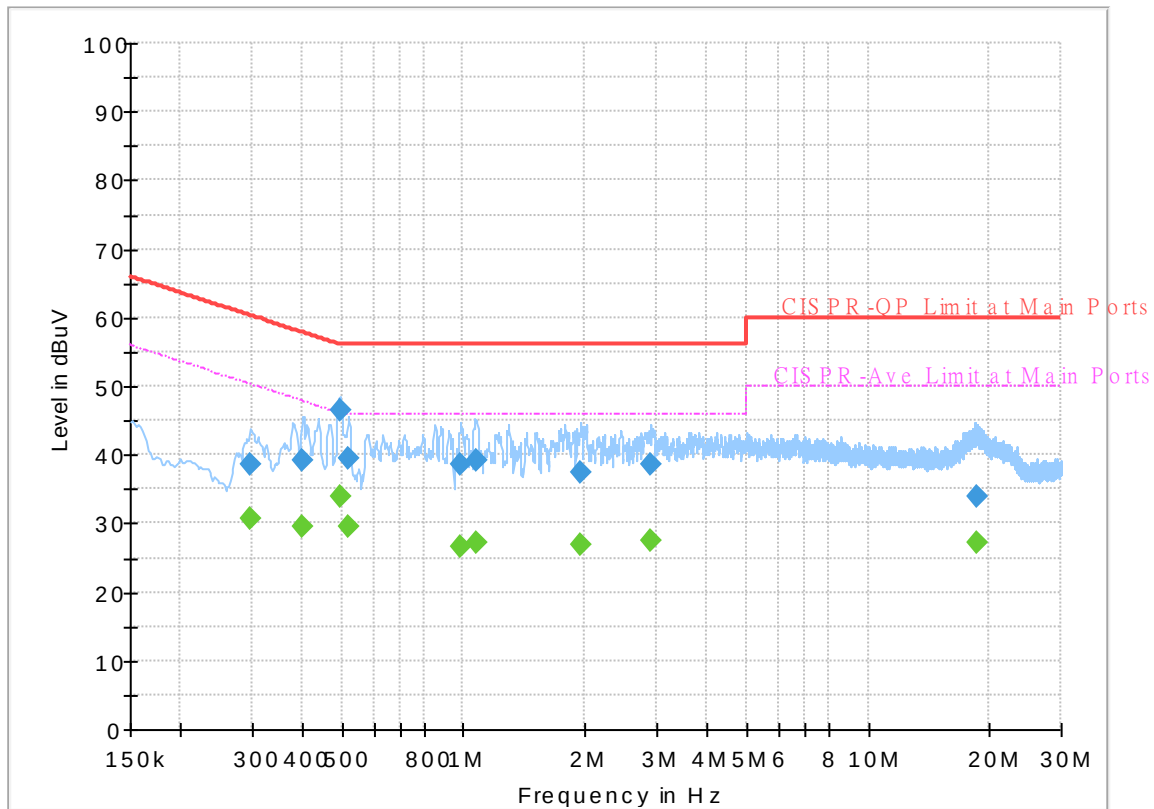
## **Appendix B. AC Conducted Emission Test Results**

|                        |             |                            |        |
|------------------------|-------------|----------------------------|--------|
| <b>Test Engineer :</b> | Calvin Wang | <b>Temperature :</b>       | 23~26℃ |
|                        |             | <b>Relative Humidity :</b> | 40~50% |

## EUT Information

Report NO : 190730  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

Full Spectrum



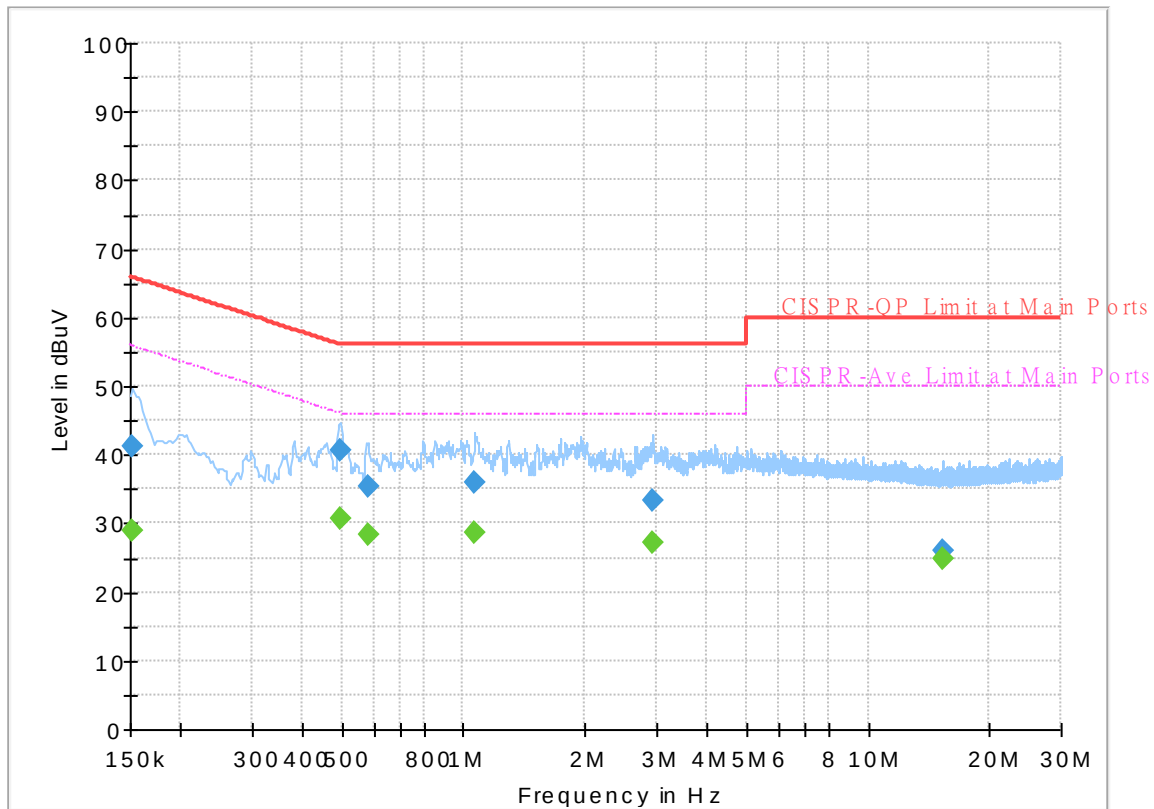
## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.298500        | ---              | 30.74           | 50.28        | 19.54       | L1   | OFF    | 19.7       |
| 0.298500        | 38.62            | ---             | 60.28        | 21.66       | L1   | OFF    | 19.7       |
| 0.399750        | ---              | 29.55           | 47.86        | 18.31       | L1   | OFF    | 19.7       |
| 0.399750        | 39.18            | ---             | 57.86        | 18.68       | L1   | OFF    | 19.7       |
| 0.496500        | ---              | 33.98           | 46.06        | 12.08       | L1   | OFF    | 19.8       |
| 0.496500        | 46.53            | ---             | 56.06        | 9.53        | L1   | OFF    | 19.8       |
| 0.519000        | ---              | 29.44           | 46.00        | 16.56       | L1   | OFF    | 19.8       |
| 0.519000        | 39.34            | ---             | 56.00        | 16.66       | L1   | OFF    | 19.8       |
| 0.984750        | ---              | 26.70           | 46.00        | 19.30       | L1   | OFF    | 20.2       |
| 0.984750        | 38.64            | ---             | 56.00        | 17.36       | L1   | OFF    | 20.2       |
| 1.077000        | ---              | 27.18           | 46.00        | 18.82       | L1   | OFF    | 20.2       |
| 1.077000        | 39.29            | ---             | 56.00        | 16.71       | L1   | OFF    | 20.2       |
| 1.952250        | ---              | 27.01           | 46.00        | 18.99       | L1   | OFF    | 20.2       |
| 1.952250        | 37.49            | ---             | 56.00        | 18.51       | L1   | OFF    | 20.2       |
| 2.890500        | ---              | 27.36           | 46.00        | 18.64       | L1   | OFF    | 20.1       |
| 2.890500        | 38.52            | ---             | 56.00        | 17.48       | L1   | OFF    | 20.1       |
| 18.552750       | ---              | 27.33           | 50.00        | 22.67       | L1   | OFF    | 20.4       |
| 18.552750       | 33.86            | ---             | 60.00        | 26.14       | L1   | OFF    | 20.4       |

## EUT Information

Report NO : 190730  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

Full Spectrum



## Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250        | ---              | 28.93           | 55.88        | 26.95       | N    | OFF    | 19.7       |
| 0.152250        | 41.20            | ---             | 65.88        | 24.68       | N    | OFF    | 19.7       |
| 0.494250        | ---              | 30.61           | 46.10        | 15.49       | N    | OFF    | 19.8       |
| 0.494250        | 40.73            | ---             | 56.10        | 15.37       | N    | OFF    | 19.8       |
| 0.579750        | ---              | 28.31           | 46.00        | 17.69       | N    | OFF    | 19.9       |
| 0.579750        | 35.51            | ---             | 56.00        | 20.49       | N    | OFF    | 19.9       |
| 1.065750        | ---              | 28.54           | 46.00        | 17.46       | N    | OFF    | 20.2       |
| 1.065750        | 35.88            | ---             | 56.00        | 20.12       | N    | OFF    | 20.2       |
| 2.935500        | ---              | 27.17           | 46.00        | 18.83       | N    | OFF    | 20.1       |
| 2.935500        | 33.22            | ---             | 56.00        | 22.78       | N    | OFF    | 20.1       |
| 15.290250       | ---              | 24.77           | 50.00        | 25.23       | N    | OFF    | 20.4       |
| 15.290250       | 26.16            | ---             | 60.00        | 33.84       | N    | OFF    | 20.4       |





## Appendix C. Radiated Spurious Emission

|                 |                                    |                     |         |
|-----------------|------------------------------------|---------------------|---------|
| Test Engineer : | Yuan Lee, Jacky Hong and Wilson Wu | Temperature :       | 20~25°C |
|                 |                                    | Relative Humidity : | 50~60%  |

### Band 1 - 5150~5250MHz

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

| WIFI Ant.                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over Limit<br>( dB ) | Limit Line<br>( dBμV/m ) | Read Level<br>( dBμV ) | Antenna Factor<br>( dB/m ) | Path Loss<br>( dB ) | Preamp Factor<br>( dB ) | Ant Pos<br>( cm ) | Table Pos<br>( deg ) | Peak Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|----------------------|--------------------------|------------------------|----------------------------|---------------------|-------------------------|-------------------|----------------------|----------------------|-----------------|
| 802.11a<br>CH 36<br>5180MHz |      | 5146.9               | 54.67               | -19.33               | 74                       | 43.61                  | 32.19                      | 6.28                | 27.41                   | 247               | 103                  | P                    | H               |
|                             |      | 5150                 | 46.35               | -7.65                | 54                       | 35.28                  | 32.2                       | 6.28                | 27.41                   | 247               | 103                  | A                    | H               |
|                             | *    | 5180                 | 101.81              | -                    | -                        | 90.85                  | 32.08                      | 6.28                | 27.4                    | 247               | 103                  | P                    | H               |
|                             | *    | 5180                 | 94.13               | -                    | -                        | 83.17                  | 32.08                      | 6.28                | 27.4                    | 247               | 103                  | A                    | H               |
|                             |      |                      |                     |                      |                          |                        |                            |                     |                         |                   |                      |                      | H               |
|                             |      |                      |                     |                      |                          |                        |                            |                     |                         |                   |                      |                      | H               |
|                             |      | 5146.38              | 59.89               | -14.11               | 74                       | 48.83                  | 32.19                      | 6.28                | 27.41                   | 100               | 346                  | P                    | V               |
|                             |      | 5150                 | 51.35               | -2.65                | 54                       | 40.28                  | 32.2                       | 6.28                | 27.41                   | 100               | 346                  | A                    | V               |
|                             | *    | 5180                 | 107.62              | -                    | -                        | 96.66                  | 32.08                      | 6.28                | 27.4                    | 100               | 346                  | P                    | V               |
|                             | *    | 5180                 | 99.92               | -                    | -                        | 88.96                  | 32.08                      | 6.28                | 27.4                    | 100               | 346                  | A                    | V               |
|                             |      |                      |                     |                      |                          |                        |                            |                     |                         |                   |                      |                      | V               |
|                             |      |                      |                     |                      |                          |                        |                            |                     |                         |                   |                      |                      | V               |
| 802.11a<br>CH 44<br>5220MHz |      | 5055.9               | 52.41               | -21.59               | 74                       | 41.5                   | 32.1                       | 6.25                | 27.44                   | 265               | 103                  | P                    | H               |
|                             |      | 5059.02              | 42.52               | -11.48               | 54                       | 31.6                   | 32.1                       | 6.25                | 27.43                   | 265               | 103                  | A                    | H               |
|                             | *    | 5220                 | 104.35              | -                    | -                        | 93.52                  | 31.92                      | 6.3                 | 27.39                   | 265               | 103                  | P                    | H               |
|                             | *    | 5220                 | 95.58               | -                    | -                        | 84.75                  | 31.92                      | 6.3                 | 27.39                   | 265               | 103                  | A                    | H               |
|                             |      | 5445.44              | 50.68               | -23.32               | 74                       | 39.71                  | 31.9                       | 6.4                 | 27.33                   | 265               | 103                  | P                    | H               |
|                             |      | 5459.44              | 41.24               | -12.76               | 54                       | 30.22                  | 31.94                      | 6.41                | 27.33                   | 265               | 103                  | A                    | H               |
|                             |      | 5123.76              | 52.79               | -21.21               | 74                       | 41.79                  | 32.15                      | 6.27                | 27.42                   | 100               | 345                  | P                    | V               |
|                             |      | 5149.76              | 42.77               | -11.23               | 54                       | 31.7                   | 32.2                       | 6.28                | 27.41                   | 100               | 345                  | A                    | V               |
|                             | *    | 5220                 | 108.35              | -                    | -                        | 97.52                  | 31.92                      | 6.3                 | 27.39                   | 100               | 345                  | P                    | V               |
|                             | *    | 5220                 | 100.44              | -                    | -                        | 89.61                  | 31.92                      | 6.3                 | 27.39                   | 100               | 345                  | A                    | V               |
|                             |      | 5396.72              | 51.69               | -22.31               | 74                       | 40.77                  | 31.88                      | 6.39                | 27.35                   | 100               | 345                  | P                    | V               |
|                             |      | 5459.44              | 41.12               | -12.88               | 54                       | 30.1                   | 31.94                      | 6.41                | 27.33                   | 100               | 345                  | A                    | V               |



|                                      |        |                                                                                             |        |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------|--------|---------------------------------------------------------------------------------------------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |        | 5134.16                                                                                     | 52.52  | -21.48 | 74 | 41.5  | 32.17 | 6.27 | 27.42 | 254 | 105 | P | H |
|                                      |        | 5051.22                                                                                     | 42.28  | -11.72 | 54 | 31.37 | 32.1  | 6.25 | 27.44 | 254 | 105 | A | H |
|                                      | *      | 5240                                                                                        | 103.11 | -      | -  | 92.35 | 31.84 | 6.31 | 27.39 | 254 | 105 | P | H |
|                                      | *      | 5240                                                                                        | 95.32  | -      | -  | 84.56 | 31.84 | 6.31 | 27.39 | 254 | 105 | A | H |
|                                      |        | 5399.52                                                                                     | 50.73  | -23.27 | 74 | 39.79 | 31.9  | 6.39 | 27.35 | 254 | 105 | P | H |
|                                      |        | 5459.72                                                                                     | 41.04  | -12.96 | 54 | 30.02 | 31.94 | 6.41 | 27.33 | 254 | 105 | A | H |
|                                      |        | 5078.26                                                                                     | 51.95  | -22.05 | 74 | 41.02 | 32.1  | 6.26 | 27.43 | 100 | 340 | P | V |
|                                      |        | 5050.7                                                                                      | 42.34  | -11.66 | 54 | 31.43 | 32.1  | 6.25 | 27.44 | 100 | 340 | A | V |
|                                      | *      | 5240                                                                                        | 108.62 | -      | -  | 97.86 | 31.84 | 6.31 | 27.39 | 100 | 340 | P | V |
|                                      | *      | 5240                                                                                        | 100.91 | -      | -  | 90.15 | 31.84 | 6.31 | 27.39 | 100 | 340 | A | V |
|                                      |        | 5450.2                                                                                      | 50.46  | -23.54 | 74 | 39.48 | 31.9  | 6.41 | 27.33 | 100 | 340 | P | V |
|                                      |        | 5457.76                                                                                     | 41.08  | -12.92 | 54 | 30.07 | 31.93 | 6.41 | 27.33 | 100 | 340 | 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                        | Note                                                                                                                                                                                                                                   | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                        |                                                                                                                                                                                                                                        |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 4                           |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 36<br>5180MHz |                                                                                                                                                                                                                                        | 10360     | 48.96      | -19.24 | 68.2       | 55.33  | 39.94    | 10.15  | 56.46  | -      | -       | P     | H     |
|                             |                                                                                                                                                                                                                                        | 15540     | 47.08      | -26.92 | 74         | 51.79  | 39.44    | 12.03  | 56.18  | -      | -       | P     | H     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                                                                                        | 10360     | 52.22      | -15.98 | 68.2       | 58.59  | 39.94    | 10.15  | 56.46  | -      | -       | P     | V     |
|                             |                                                                                                                                                                                                                                        | 15540     | 45.85      | -28.15 | 74         | 50.56  | 39.44    | 12.03  | 56.18  | -      | -       | P     | V     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11a<br>CH 44<br>5220MHz |                                                                                                                                                                                                                                        | 10440     | 49.4       | -18.8  | 68.2       | 55.45  | 40.22    | 10.19  | 56.46  | -      | -       | P     | H     |
|                             |                                                                                                                                                                                                                                        | 15660     | 45.42      | -28.58 | 74         | 50.41  | 38.9     | 12.04  | 55.93  | -      | -       | P     | H     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                                                                                        | 10440     | 50.33      | -17.87 | 68.2       | 56.38  | 40.22    | 10.19  | 56.46  | -      | -       | P     | V     |
|                             |                                                                                                                                                                                                                                        | 15660     | 44.8       | -29.2  | 74         | 49.79  | 38.9     | 12.04  | 55.93  | -      | -       | P     | V     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11a<br>CH 48<br>5240MHz |                                                                                                                                                                                                                                        | 10480     | 50.57      | -17.63 | 68.2       | 56.48  | 40.34    | 10.21  | 56.46  | -      | -       | P     | H     |
|                             |                                                                                                                                                                                                                                        | 15720     | 45.55      | -28.45 | 74         | 50.62  | 38.68    | 12.05  | 55.8   | -      | -       | P     | H     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                                                                                        | 10480     | 51.63      | -16.57 | 68.2       | 57.54  | 40.34    | 10.21  | 56.46  | -      | -       | P     | V     |
|                             |                                                                                                                                                                                                                                        | 15720     | 46.27      | -27.73 | 74         | 51.34  | 38.68    | 12.05  | 55.8   | -      | -       | P     | V     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (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.    |         |
| 4                                   |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5147.16   | 55.99      | -18.01 | 74         | 44.93    | 32.19    | 6.28   | 27.41  | 246    | 104     | P       | H       |
|                                     |      | 5150      | 47.58      | -6.42  | 54         | 36.51    | 32.2     | 6.28   | 27.41  | 246    | 104     | A       | H       |
|                                     | *    | 5180      | 102.59     | -      | -          | 91.63    | 32.08    | 6.28   | 27.4   | 246    | 104     | P       | H       |
|                                     | *    | 5180      | 94.57      | -      | -          | 83.61    | 32.08    | 6.28   | 27.4   | 246    | 104     | A       | H       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |      | 5147.68   | 60.74      | -13.26 | 74         | 49.67    | 32.2     | 6.28   | 27.41  | 100    | 346     | P       | V       |
|                                     |      | 5150      | 52.29      | -1.71  | 54         | 41.22    | 32.2     | 6.28   | 27.41  | 100    | 346     | A       | V       |
|                                     | *    | 5180      | 107.77     | -      | -          | 96.81    | 32.08    | 6.28   | 27.4   | 100    | 346     | P       | V       |
|                                     | *    | 5180      | 99.83      | -      | -          | 88.87    | 32.08    | 6.28   | 27.4   | 100    | 346     | A       | V       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5133.64   | 51.76      | -22.24 | 74         | 40.74    | 32.17    | 6.27   | 27.42  | 263    | 103     | P       | H       |
|                                     |      | 5060.32   | 42.2       | -11.8  | 54         | 31.27    | 32.1     | 6.26   | 27.43  | 263    | 103     | A       | H       |
|                                     | *    | 5220      | 102.52     | -      | -          | 91.69    | 31.92    | 6.3    | 27.39  | 263    | 103     | P       | H       |
|                                     | *    | 5220      | 94.77      | -      | -          | 83.94    | 31.92    | 6.3    | 27.39  | 263    | 103     | A       | H       |
|                                     |      | 5373.48   | 51.43      | -22.57 | 74         | 40.66    | 31.74    | 6.38   | 27.35  | 263    | 103     | P       | H       |
|                                     |      | 5459.44   | 40.92      | -13.08 | 54         | 29.9     | 31.94    | 6.41   | 27.33  | 263    | 103     | A       | H       |
|                                     |      | 5110.5    | 52.69      | -21.31 | 74         | 41.72    | 32.12    | 6.27   | 27.42  | 110    | 346     | P       | V       |
|                                     |      | 5149.5    | 42.6       | -11.4  | 54         | 31.53    | 32.2     | 6.28   | 27.41  | 110    | 346     | A       | V       |
|                                     | *    | 5220      | 107.92     | -      | -          | 97.09    | 31.92    | 6.3    | 27.39  | 110    | 346     | P       | V       |
|                                     | *    | 5220      | 99.91      | -      | -          | 89.08    | 31.92    | 6.3    | 27.39  | 110    | 346     | A       | V       |
|                                     |      | 5441.24   | 52.35      | -21.65 | 74         | 41.39    | 31.9     | 6.4    | 27.34  | 110    | 346     | P       | V       |
|                                     |      | 5460      | 40.94      | -13.06 | 54         | 29.92    | 31.94    | 6.41   | 27.33  | 110    | 346     | A       | V       |



|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5093.34 | 52.2   | -21.8  | 74 | 41.27 | 32.1  | 6.26 | 27.43 | 257 | 103 | P | H |
|                                               |                                                                                             | 5049.14 | 42.23  | -11.77 | 54 | 31.33 | 32.09 | 6.25 | 27.44 | 257 | 103 | A | H |
|                                               | *                                                                                           | 5240    | 102.6  | -      | -  | 91.84 | 31.84 | 6.31 | 27.39 | 257 | 103 | P | H |
|                                               | *                                                                                           | 5240    | 94.58  | -      | -  | 83.82 | 31.84 | 6.31 | 27.39 | 257 | 103 | A | H |
|                                               |                                                                                             | 5370.96 | 50.24  | -23.76 | 74 | 39.48 | 31.73 | 6.38 | 27.35 | 257 | 103 | P | H |
|                                               |                                                                                             | 5456.64 | 40.91  | -13.09 | 54 | 29.9  | 31.93 | 6.41 | 27.33 | 257 | 103 | A | H |
|                                               |                                                                                             | 5150    | 51.86  | -22.14 | 74 | 40.79 | 32.2  | 6.28 | 27.41 | 101 | 322 | P | V |
|                                               |                                                                                             | 5072.28 | 42.22  | -11.78 | 54 | 31.29 | 32.1  | 6.26 | 27.43 | 101 | 322 | A | V |
|                                               | *                                                                                           | 5240    | 107.97 | -      | -  | 97.21 | 31.84 | 6.31 | 27.39 | 101 | 322 | P | V |
|                                               | *                                                                                           | 5240    | 100.35 | -      | -  | 89.59 | 31.84 | 6.31 | 27.39 | 101 | 322 | A | V |
|                                               |                                                                                             | 5389.44 | 50.67  | -23.33 | 74 | 39.8  | 31.84 | 6.38 | 27.35 | 101 | 322 | P | V |
|                                               |                                                                                             | 5459.44 | 40.97  | -13.03 | 54 | 29.95 | 31.94 | 6.41 | 27.33 | 101 | 322 | 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                                 | Note                                                                                                                                                                                                                                   | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                 |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT20<br>CH 36<br>5180MHz  |                                                                                                                                                                                                                                        | 10360     | 50.25      | -17.95 | 68.2       | 56.62  | 39.94    | 10.15  | 56.46  | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        | 15540     | 46.29      | -27.71 | 74         | 51     | 39.44    | 12.03  | 56.18  | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        | 10360     | 51.65      | -16.55 | 68.2       | 58.02  | 39.94    | 10.15  | 56.46  | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        | 15540     | 46.21      | -27.79 | 74         | 50.92  | 39.44    | 12.03  | 56.18  | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| i802.11n<br>HT20<br>CH 44<br>5220MHz |                                                                                                                                                                                                                                        | 10440     | 50.25      | -17.95 | 68.2       | 56.3   | 40.22    | 10.19  | 56.46  | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        | 15660     | 45.74      | -28.26 | 74         | 50.73  | 38.9     | 12.04  | 55.93  | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        | 10440     | 50.8       | -17.4  | 68.2       | 56.85  | 40.22    | 10.19  | 56.46  | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        | 15660     | 45.45      | -28.55 | 74         | 50.44  | 38.9     | 12.04  | 55.93  | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 48<br>5240MHz  |                                                                                                                                                                                                                                        | 10480     | 50.24      | -17.96 | 68.2       | 56.15  | 40.34    | 10.21  | 56.46  | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        | 15720     | 45.94      | -28.06 | 74         | 51.01  | 38.68    | 12.05  | 55.8   | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        | 10480     | 51.32      | -16.88 | 68.2       | 57.23  | 40.34    | 10.21  | 56.46  | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        | 15720     | 46.07      | -27.93 | 74         | 51.14  | 38.68    | 12.05  | 55.8   | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (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.    |         |
| 4                                                                                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz                                                         |      | 5146.38   | 53.02      | -20.98 | 74         | 41.96    | 32.19    | 6.28   | 27.41  | 273    | 114     | P       | H       |
|                                                                                             |      | 5149.5    | 46.19      | -7.81  | 54         | 35.12    | 32.2     | 6.28   | 27.41  | 273    | 114     | A       | H       |
|                                                                                             | *    | 5190      | 96.39      | -      | -          | 85.46    | 32.04    | 6.29   | 27.4   | 273    | 114     | P       | H       |
|                                                                                             | *    | 5190      | 88.45      | -      | -          | 77.52    | 32.04    | 6.29   | 27.4   | 273    | 114     | A       | H       |
|                                                                                             |      | 5381.04   | 50.23      | -23.77 | 74         | 39.41    | 31.79    | 6.38   | 27.35  | 273    | 114     | P       | H       |
|                                                                                             |      | 5449.64   | 42.21      | -11.79 | 54         | 31.24    | 31.9     | 6.4    | 27.33  | 273    | 114     | A       | H       |
|                                                                                             |      | 5149.24   | 57.47      | -16.53 | 74         | 46.4     | 32.2     | 6.28   | 27.41  | 100    | 346     | P       | V       |
|                                                                                             |      | 5149.76   | 51.22      | -2.78  | 54         | 40.15    | 32.2     | 6.28   | 27.41  | 100    | 346     | A       | V       |
|                                                                                             | *    | 5190      | 102.5      | -      | -          | 91.57    | 32.04    | 6.29   | 27.4   | 100    | 346     | P       | V       |
|                                                                                             | *    | 5190      | 94.61      | -      | -          | 83.68    | 32.04    | 6.29   | 27.4   | 100    | 346     | A       | V       |
|                                                                                             |      | 5431.44   | 50.84      | -23.16 | 74         | 39.88    | 31.9     | 6.4    | 27.34  | 100    | 346     | P       | V       |
|                                                                                             |      | 5451.88   | 42.36      | -11.64 | 54         | 31.37    | 31.91    | 6.41   | 27.33  | 100    | 346     | A       | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz                                                         |      | 5099.06   | 51.77      | -22.23 | 74         | 40.83    | 32.1     | 6.26   | 27.42  | 272    | 116     | P       | H       |
|                                                                                             |      | 5144.56   | 44         | -10    | 54         | 32.94    | 32.19    | 6.28   | 27.41  | 272    | 116     | A       | H       |
|                                                                                             | *    | 5230      | 99.55      | -      | -          | 88.76    | 31.88    | 6.3    | 27.39  | 272    | 116     | P       | H       |
|                                                                                             | *    | 5230      | 91.62      | -      | -          | 80.83    | 31.88    | 6.3    | 27.39  | 272    | 116     | A       | H       |
|                                                                                             |      | 5402.6    | 50.24      | -23.76 | 74         | 39.3     | 31.9     | 6.39   | 27.35  | 272    | 116     | P       | H       |
|                                                                                             |      | 5455.24   | 42.12      | -11.88 | 54         | 31.12    | 31.92    | 6.41   | 27.33  | 272    | 116     | A       | H       |
|                                                                                             |      | 5147.94   | 55.15      | -18.85 | 74         | 44.08    | 32.2     | 6.28   | 27.41  | 105    | 345     | P       | V       |
|                                                                                             |      | 5149.24   | 45.69      | -8.31  | 54         | 34.62    | 32.2     | 6.28   | 27.41  | 105    | 345     | A       | V       |
|                                                                                             | *    | 5230      | 105.66     | -      | -          | 94.87    | 31.88    | 6.3    | 27.39  | 105    | 345     | P       | V       |
|                                                                                             | *    | 5230      | 97.86      | -      | -          | 87.07    | 31.88    | 6.3    | 27.39  | 105    | 345     | A       | V       |
| Remark                                                                                      |      | 5375.72   | 50.22      | -23.78 | 74         | 39.44    | 31.75    | 6.38   | 27.35  | 105    | 345     | P       | V       |
|                                                                                             |      | 5454.12   | 42.2       | -11.8  | 54         | 31.2     | 31.92    | 6.41   | 27.33  | 105    | 345     | A       | V       |
| 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                                | Note                                                                                                                                                                                                                                   | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak       | Pol.  |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|------------|-------|
| Ant.                                |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | Avg. (P/A) | (H/V) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz |                                                                                                                                                                                                                                        | 10380     | 47.36      | -20.84 | 68.2       | 53.64  | 40.02    | 10.16  | 56.46  | -      | -       | P          | H     |
|                                     |                                                                                                                                                                                                                                        | 15570     | 45.72      | -28.28 | 74         | 50.49  | 39.32    | 12.03  | 56.12  | -      | -       | P          | H     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |                                                                                                                                                                                                                                        | 10380     | 48.52      | -19.68 | 68.2       | 54.8   | 40.02    | 10.16  | 56.46  | -      | -       | P          | V     |
|                                     |                                                                                                                                                                                                                                        | 15570     | 46.36      | -27.64 | 74         | 51.13  | 39.32    | 12.03  | 56.12  | -      | -       | P          | V     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | V     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | V     |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                                                                                                                                                                        | 10460     | 49.07      | -19.13 | 68.2       | 55.05  | 40.28    | 10.2   | 56.46  | -      | -       | P          | H     |
|                                     |                                                                                                                                                                                                                                        | 15690     | 45.21      | -28.79 | 74         | 50.28  | 38.75    | 12.04  | 55.86  | -      | -       | P          | H     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |                                                                                                                                                                                                                                        | 10460     | 49.84      | -18.36 | 68.2       | 55.82  | 40.28    | 10.2   | 56.46  | -      | -       | P          | V     |
|                                     |                                                                                                                                                                                                                                        | 15690     | 44.68      | -29.32 | 74         | 49.75  | 38.75    | 12.04  | 55.86  | -      | -       | P          | V     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | V     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | V     |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |            |       |





## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (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.    |         |
| 4                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 5139.62   | 53.6       | -20.4  | 74         | 42.56    | 32.18    | 6.27   | 27.41  | 265    | 107     | P       | H       |
|                                       |                                                                                             | 5149.5    | 46.37      | -7.63  | 54         | 35.3     | 32.2     | 6.28   | 27.41  | 265    | 107     | A       | H       |
|                                       | *                                                                                           | 5210      | 93.18      | -      | -          | 82.32    | 31.96    | 6.3    | 27.4   | 265    | 107     | P       | H       |
|                                       | *                                                                                           | 5210      | 85.37      | -      | -          | 74.51    | 31.96    | 6.3    | 27.4   | 265    | 107     | A       | H       |
|                                       |                                                                                             | 5451.04   | 49.85      | -24.15 | 74         | 38.87    | 31.9     | 6.41   | 27.33  | 265    | 107     | P       | H       |
|                                       |                                                                                             | 5453.84   | 42.17      | -11.83 | 54         | 31.17    | 31.92    | 6.41   | 27.33  | 265    | 107     | A       | H       |
|                                       |                                                                                             | 5147.16   | 58.53      | -15.47 | 74         | 47.47    | 32.19    | 6.28   | 27.41  | 107    | 345     | P       | V       |
|                                       |                                                                                             | 5149.76   | 52.22      | -1.78  | 54         | 41.15    | 32.2     | 6.28   | 27.41  | 107    | 345     | A       | V       |
|                                       | *                                                                                           | 5210      | 98.87      | -      | -          | 88.01    | 31.96    | 6.3    | 27.4   | 107    | 345     | P       | V       |
|                                       | *                                                                                           | 5210      | 91.44      | -      | -          | 80.58    | 31.96    | 6.3    | 27.4   | 107    | 345     | A       | V       |
|                                       |                                                                                             | 5413.24   | 49.98      | -24.02 | 74         | 39.03    | 31.9     | 6.39   | 27.34  | 107    | 345     | P       | V       |
|                                       |                                                                                             | 5458.6    | 42.09      | -11.91 | 54         | 31.08    | 31.93    | 6.41   | 27.33  | 107    | 345     | A       | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |

## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 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.    |         |
| 4                                     |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                                                                                                                                                                        | 10420     | 47.65      | -20.55 | 68.2       | 53.77    | 40.16    | 10.18  | 56.46  | -      | -       | P       | H       |
|                                       |                                                                                                                                                                                                                                        | 15630     | 45.87      | -28.13 | 74         | 50.78    | 39.05    | 12.03  | 55.99  | -      | -       | P       | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        | 10420     | 47.02      | -21.18 | 68.2       | 53.14    | 40.16    | 10.18  | 56.46  | -      | -       | P       | V       |
|                                       |                                                                                                                                                                                                                                        | 15630     | 45.9       | -28.1  | 74         | 50.81    | 39.05    | 12.03  | 55.99  | -      | -       | P       | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |          |          |        |        |        |         |         |         |



## 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.    |         |
| 4                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5092.14   | 52.46      | -21.54 | 74         | 41.53    | 32.1     | 6.26   | 27.43  | 245    | 106     | P       | H       |
|                             |      | 5071.06   | 42.15      | -11.85 | 54         | 31.22    | 32.1     | 6.26   | 27.43  | 245    | 106     | A       | H       |
|                             | *    | 5260      | 102.15     | -      | -          | 91.43    | 31.78    | 6.32   | 27.38  | 245    | 106     | P       | H       |
|                             | *    | 5260      | 94.35      | -      | -          | 83.63    | 31.78    | 6.32   | 27.38  | 245    | 106     | A       | H       |
|                             |      | 5454.48   | 50.72      | -23.28 | 74         | 39.72    | 31.92    | 6.41   | 27.33  | 245    | 106     | P       | H       |
|                             |      | 5459.04   | 40.79      | -13.21 | 54         | 29.77    | 31.94    | 6.41   | 27.33  | 245    | 106     | A       | H       |
|                             |      | 5093.16   | 52.86      | -21.14 | 74         | 41.93    | 32.1     | 6.26   | 27.43  | 100    | 323     | P       | V       |
|                             |      | 5056.1    | 42.14      | -11.86 | 54         | 31.23    | 32.1     | 6.25   | 27.44  | 100    | 323     | A       | V       |
|                             | *    | 5260      | 107.76     | -      | -          | 97.04    | 31.78    | 6.32   | 27.38  | 100    | 323     | P       | V       |
|                             | *    | 5260      | 100.13     | -      | -          | 89.41    | 31.78    | 6.32   | 27.38  | 100    | 323     | A       | V       |
|                             |      | 5394      | 50.35      | -23.65 | 74         | 39.45    | 31.86    | 6.39   | 27.35  | 100    | 323     | P       | V       |
|                             |      | 5460      | 40.82      | -13.18 | 54         | 29.8     | 31.94    | 6.41   | 27.33  | 100    | 323     | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5047.6    | 52.38      | -21.62 | 74         | 41.48    | 32.09    | 6.25   | 27.44  | 261    | 106     | P       | H       |
|                             |      | 5055.76   | 42.12      | -11.88 | 54         | 31.21    | 32.1     | 6.25   | 27.44  | 261    | 106     | A       | H       |
|                             | *    | 5300      | 102.67     | -      | -          | 92       | 31.7     | 6.34   | 27.37  | 261    | 106     | P       | H       |
|                             | *    | 5300      | 95.08      | -      | -          | 84.41    | 31.7     | 6.34   | 27.37  | 261    | 106     | A       | H       |
|                             |      | 5380.08   | 50.16      | -23.84 | 74         | 39.35    | 31.78    | 6.38   | 27.35  | 261    | 106     | P       | H       |
|                             |      | 5459.52   | 40.8       | -13.2  | 54         | 29.78    | 31.94    | 6.41   | 27.33  | 261    | 106     | A       | H       |
|                             |      | 5046.92   | 52.85      | -21.15 | 74         | 41.96    | 32.08    | 6.25   | 27.44  | 101    | 318     | P       | V       |
|                             |      | 5050.32   | 42.14      | -11.86 | 54         | 31.23    | 32.1     | 6.25   | 27.44  | 101    | 318     | A       | V       |
|                             | *    | 5300      | 107.83     | -      | -          | 97.16    | 31.7     | 6.34   | 27.37  | 101    | 318     | P       | V       |
|                             | *    | 5300      | 100.1      | -      | -          | 89.43    | 31.7     | 6.34   | 27.37  | 101    | 318     | A       | V       |
|                             |      | 5357.28   | 51.01      | -22.99 | 74         | 40.36    | 31.64    | 6.37   | 27.36  | 101    | 318     | P       | V       |
|                             |      | 5350.08   | 41.97      | -12.03 | 54         | 31.36    | 31.6     | 6.37   | 27.36  | 101    | 318     | A       | V       |



|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 102.66 | -      | -  | 92.02 | 31.66 | 6.35 | 27.37 | 262 | 106 | P | H |
|                                                  | *                                                                                           | 5320    | 95.06  | -      | -  | 84.42 | 31.66 | 6.35 | 27.37 | 262 | 106 | A | H |
|                                                  |                                                                                             | 5351.68 | 53.12  | -20.88 | 74 | 42.5  | 31.61 | 6.37 | 27.36 | 262 | 106 | P | H |
|                                                  |                                                                                             | 5350.08 | 46.88  | -7.12  | 54 | 36.27 | 31.6  | 6.37 | 27.36 | 262 | 106 | A | H |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                  | *                                                                                           | 5320    | 107.03 | -      | -  | 96.39 | 31.66 | 6.35 | 27.37 | 100 | 340 | P | V |
|                                                  | *                                                                                           | 5320    | 99.47  | -      | -  | 88.83 | 31.66 | 6.35 | 27.37 | 100 | 340 | A | V |
|                                                  |                                                                                             | 5350.72 | 56.68  | -17.32 | 74 | 46.07 | 31.6  | 6.37 | 27.36 | 100 | 340 | P | V |
|                                                  |                                                                                             | 5350.24 | 50.09  | -3.91  | 54 | 39.48 | 31.6  | 6.37 | 27.36 | 100 | 340 | A | V |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                                  |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 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.  |       |
| 4                            |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 52<br>5260MHz  |                                                                                                                                                                                                                                        | 10520     | 49.78      | -18.42 | 68.2       | 55.62  | 40.36    | 10.23  | 56.43  | -      | -       | P     | H     |
|                              |                                                                                                                                                                                                                                        | 15780     | 46.53      | -27.47 | 74         | 51.53  | 38.62    | 12.05  | 55.67  | -      | -       | P     | H     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                                                                                                                                                                                                        | 10520     | 52.28      | -15.92 | 68.2       | 58.12  | 40.36    | 10.23  | 56.43  | 100    | 0       | P     | V     |
|                              |                                                                                                                                                                                                                                        | 15780     | 45.53      | -28.47 | 74         | 50.53  | 38.62    | 12.05  | 55.67  | 100    | 0       | P     | V     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| i802.11a<br>CH 60<br>5300MHz |                                                                                                                                                                                                                                        | 10600     | 52.22      | -21.78 | 74         | 58.07  | 40.2     | 10.27  | 56.32  | 219    | 326     | P     | H     |
|                              |                                                                                                                                                                                                                                        | 10600     | 41.81      | -12.19 | 54         | 47.66  | 40.2     | 10.27  | 56.32  | 219    | 326     | A     | H     |
|                              |                                                                                                                                                                                                                                        | 15900     | 45.71      | -28.29 | 74         | 50.35  | 38.7     | 12.07  | 55.41  | -      | -       | P     | H     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                                                                                                                                                                                                        | 10600     | 53.17      | -20.83 | 74         | 59.02  | 40.2     | 10.27  | 56.32  | 376    | 11      | P     | V     |
|                              |                                                                                                                                                                                                                                        | 10600     | 43.87      | -10.13 | 54         | 49.72  | 40.2     | 10.27  | 56.32  | 376    | 11      | A     | V     |
|                              |                                                                                                                                                                                                                                        | 15900     | 46.18      | -27.82 | 74         | 50.82  | 38.7     | 12.07  | 55.41  | -      | -       | P     | V     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11a<br>CH 64<br>5320MHz  |                                                                                                                                                                                                                                        | 10640     | 52.88      | -21.12 | 74         | 58.54  | 40.32    | 10.29  | 56.27  | 209    | 344     | P     | H     |
|                              |                                                                                                                                                                                                                                        | 10640     | 41.75      | -12.25 | 54         | 47.41  | 40.32    | 10.29  | 56.27  | 209    | 344     | A     | H     |
|                              |                                                                                                                                                                                                                                        | 15960     | 45.58      | -28.42 | 74         | 50.28  | 38.52    | 12.07  | 55.29  | -      | -       | P     | H     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                                                                                                                                                                                                        | 10640     | 54.42      | -19.58 | 74         | 60.08  | 40.32    | 10.29  | 56.27  | 383    | 10      | P     | V     |
|                              |                                                                                                                                                                                                                                        | 10640     | 43.44      | -10.56 | 54         | 49.1   | 40.32    | 10.29  | 56.27  | 383    | 10      | A     | V     |
|                              |                                                                                                                                                                                                                                        | 15960     | 45.95      | -28.05 | 74         | 50.65  | 38.52    | 12.07  | 55.29  | -      | -       | P     | V     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (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.    |         |
| 4                                   |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5025.16   | 52.67      | -21.33 | 74         | 41.91    | 31.95    | 6.25   | 27.44  | 247    | 107     | P       | H       |
|                                     |      | 5053.04   | 42.2       | -11.8  | 54         | 31.29    | 32.1     | 6.25   | 27.44  | 247    | 107     | A       | H       |
|                                     | *    | 5260      | 102.37     | -      | -          | 91.65    | 31.78    | 6.32   | 27.38  | 247    | 107     | P       | H       |
|                                     | *    | 5260      | 94.48      | -      | -          | 83.76    | 31.78    | 6.32   | 27.38  | 247    | 107     | A       | H       |
|                                     |      | 5407.68   | 49.67      | -24.33 | 74         | 38.72    | 31.9     | 6.39   | 27.34  | 247    | 107     | P       | H       |
|                                     |      | 5458.56   | 40.94      | -13.06 | 54         | 29.93    | 31.93    | 6.41   | 27.33  | 247    | 107     | A       | H       |
|                                     |      | 5040.12   | 52         | -22    | 74         | 41.15    | 32.04    | 6.25   | 27.44  | 100    | 323     | P       | V       |
|                                     |      | 5048.62   | 42.23      | -11.77 | 54         | 31.33    | 32.09    | 6.25   | 27.44  | 100    | 323     | A       | V       |
|                                     | *    | 5260      | 108.5      | -      | -          | 97.78    | 31.78    | 6.32   | 27.38  | 100    | 323     | P       | V       |
|                                     | *    | 5260      | 100.5      | -      | -          | 89.78    | 31.78    | 6.32   | 27.38  | 100    | 323     | A       | V       |
|                                     |      | 5420.16   | 50.27      | -23.73 | 74         | 39.31    | 31.9     | 6.4    | 27.34  | 100    | 323     | P       | V       |
|                                     |      | 5459.28   | 40.97      | -13.03 | 54         | 29.95    | 31.94    | 6.41   | 27.33  | 100    | 323     | A       | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5031.28   | 52.11      | -21.89 | 74         | 41.31    | 31.99    | 6.25   | 27.44  | 261    | 107     | P       | H       |
|                                     |      | 5060.86   | 42.19      | -11.81 | 54         | 31.26    | 32.1     | 6.26   | 27.43  | 261    | 107     | A       | H       |
|                                     | *    | 5300      | 103.2      | -      | -          | 92.53    | 31.7     | 6.34   | 27.37  | 261    | 107     | P       | H       |
|                                     | *    | 5300      | 95.15      | -      | -          | 84.48    | 31.7     | 6.34   | 27.37  | 261    | 107     | A       | H       |
|                                     |      | 5371.92   | 50.22      | -23.78 | 74         | 39.46    | 31.73    | 6.38   | 27.35  | 261    | 107     | P       | H       |
|                                     |      | 5459.28   | 40.95      | -13.05 | 54         | 29.93    | 31.94    | 6.41   | 27.33  | 261    | 107     | A       | H       |
|                                     |      | 5049.98   | 53.28      | -20.72 | 74         | 42.37    | 32.1     | 6.25   | 27.44  | 100    | 323     | P       | V       |
|                                     |      | 5049.98   | 42.24      | -11.76 | 54         | 31.33    | 32.1     | 6.25   | 27.44  | 100    | 323     | A       | V       |
|                                     | *    | 5300      | 107.87     | -      | -          | 97.2     | 31.7     | 6.34   | 27.37  | 100    | 323     | P       | V       |
|                                     | *    | 5300      | 100.25     | -      | -          | 89.58    | 31.7     | 6.34   | 27.37  | 100    | 323     | A       | V       |
|                                     |      | 5376.96   | 52.16      | -21.84 | 74         | 41.37    | 31.76    | 6.38   | 27.35  | 100    | 323     | P       | V       |
|                                     |      | 5350.08   | 42.5       | -11.5  | 54         | 31.89    | 31.6     | 6.37   | 27.36  | 100    | 323     | A       | V       |



|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 64<br/>5320MHz</b> | *                                                                                           | 5320    | 102.73 | -      | -  | 92.09 | 31.66 | 6.35 | 27.37 | 265 | 106 | P | H |
|                                               | *                                                                                           | 5320    | 94.86  | -      | -  | 84.22 | 31.66 | 6.35 | 27.37 | 265 | 106 | A | H |
|                                               |                                                                                             | 5351.52 | 54.95  | -19.05 | 74 | 44.33 | 31.61 | 6.37 | 27.36 | 265 | 106 | P | H |
|                                               |                                                                                             | 5350.08 | 46.97  | -7.03  | 54 | 36.36 | 31.6  | 6.37 | 27.36 | 265 | 106 | A | H |
|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                               | *                                                                                           | 5320    | 107.92 | -      | -  | 97.28 | 31.66 | 6.35 | 27.37 | 100 | 323 | P | V |
|                                               | *                                                                                           | 5320    | 100.04 | -      | -  | 89.4  | 31.66 | 6.35 | 27.37 | 100 | 323 | A | V |
|                                               |                                                                                             | 5351.36 | 58.99  | -15.01 | 74 | 48.37 | 31.61 | 6.37 | 27.36 | 100 | 323 | P | V |
|                                               |                                                                                             | 5350.08 | 51.73  | -2.27  | 54 | 41.12 | 31.6  | 6.37 | 27.36 | 100 | 323 | A | V |
|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



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

| WIFI                                | Note | Frequency                                                                                                                                                                                                                              | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak       | Pol.  |
|-------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|------------|--------|----------|--------|--------|--------|---------|------------|-------|
| Ant.                                |      | ( MHz )                                                                                                                                                                                                                                | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | Avg. (P/A) | (H/V) |
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 10520                                                                                                                                                                                                                                  | 49.86      | -18.34 | 68.2       | 55.7   | 40.36    | 10.23  | 56.43  | -      | -       | P          | H     |
|                                     |      | 15780                                                                                                                                                                                                                                  | 46.19      | -27.81 | 74         | 51.19  | 38.62    | 12.05  | 55.67  | -      | -       | P          | H     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |      | 10520                                                                                                                                                                                                                                  | 51.38      | -16.82 | 68.2       | 57.22  | 40.36    | 10.23  | 56.43  | -      | -       | P          | V     |
|                                     |      | 15780                                                                                                                                                                                                                                  | 46.28      | -27.72 | 74         | 51.28  | 38.62    | 12.05  | 55.67  | -      | -       | P          | V     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | V     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | V     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            |       |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            |       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 10600                                                                                                                                                                                                                                  | 52.63      | -21.37 | 74         | 58.48  | 40.2     | 10.27  | 56.32  | 199    | 338     | P          | H     |
|                                     |      | 10600                                                                                                                                                                                                                                  | 41.52      | -12.48 | 54         | 47.37  | 40.2     | 10.27  | 56.32  | 199    | 338     | A          | H     |
|                                     |      | 15900                                                                                                                                                                                                                                  | 45.7       | -28.3  | 74         | 50.34  | 38.7     | 12.07  | 55.41  | -      | -       | P          | H     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |      | 10600                                                                                                                                                                                                                                  | 52.84      | -21.16 | 74         | 58.69  | 40.2     | 10.27  | 56.32  | 300    | 19      | P          | V     |
|                                     |      | 10600                                                                                                                                                                                                                                  | 42.59      | -11.41 | 54         | 48.44  | 40.2     | 10.27  | 56.32  | 300    | 19      | A          | V     |
|                                     |      | 15900                                                                                                                                                                                                                                  | 45.63      | -28.37 | 74         | 50.27  | 38.7     | 12.07  | 55.41  | -      | -       | P          | V     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | V     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | V     |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |      | 10640                                                                                                                                                                                                                                  | 52.29      | -21.71 | 74         | 57.95  | 40.32    | 10.29  | 56.27  | 206    | 331     | P          | H     |
|                                     |      | 10640                                                                                                                                                                                                                                  | 41.45      | -12.55 | 54         | 47.11  | 40.32    | 10.29  | 56.27  | 206    | 331     | A          | H     |
|                                     |      | 15960                                                                                                                                                                                                                                  | 45.72      | -28.28 | 74         | 50.42  | 38.52    | 12.07  | 55.29  | -      | -       | P          | H     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |      | 10640                                                                                                                                                                                                                                  | 54.28      | -19.72 | 74         | 59.94  | 40.32    | 10.29  | 56.27  | 308    | 19      | P          | V     |
|                                     |      | 10640                                                                                                                                                                                                                                  | 42.59      | -11.41 | 54         | 48.25  | 40.32    | 10.29  | 56.27  | 308    | 19      | A          | V     |
|                                     |      | 15960                                                                                                                                                                                                                                  | 46.04      | -27.96 | 74         | 50.74  | 38.52    | 12.07  | 55.29  | -      | -       | P          | V     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | V     |
|                                     |      |                                                                                                                                                                                                                                        |            |        |            |        |          |        |        |        |         |            | V     |
| Remark                              |      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |            |        |            |        |          |        |        |        |         |            |       |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (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.    |         |
| 4                                   |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |                                                                                             | 5055.76   | 52.32      | -21.68 | 74         | 41.41    | 32.1     | 6.25   | 27.44  | 267    | 107     | P       | H       |
|                                     |                                                                                             | 5046.58   | 43.86      | -10.14 | 54         | 32.97    | 32.08    | 6.25   | 27.44  | 267    | 107     | A       | H       |
|                                     | *                                                                                           | 5270      | 99.75      | -      | -          | 89.05    | 31.76    | 6.32   | 27.38  | 267    | 107     | P       | H       |
|                                     | *                                                                                           | 5270      | 91.83      | -      | -          | 81.13    | 31.76    | 6.32   | 27.38  | 267    | 107     | A       | H       |
|                                     |                                                                                             | 5445.84   | 50.29      | -23.71 | 74         | 39.32    | 31.9     | 6.4    | 27.33  | 267    | 107     | P       | H       |
|                                     |                                                                                             | 5350.56   | 42.47      | -11.53 | 54         | 31.86    | 31.6     | 6.37   | 27.36  | 267    | 107     | A       | H       |
|                                     |                                                                                             | 5045.9    | 51.7       | -22.3  | 74         | 40.81    | 32.08    | 6.25   | 27.44  | 100    | 345     | P       | V       |
|                                     |                                                                                             | 5096.56   | 43.92      | -10.08 | 54         | 32.98    | 32.1     | 6.26   | 27.42  | 100    | 345     | A       | V       |
|                                     | *                                                                                           | 5270      | 104.96     | -      | -          | 94.26    | 31.76    | 6.32   | 27.38  | 100    | 345     | P       | V       |
|                                     | *                                                                                           | 5270      | 97.12      | -      | -          | 86.42    | 31.76    | 6.32   | 27.38  | 100    | 345     | A       | V       |
|                                     |                                                                                             | 5456.16   | 51.6       | -22.4  | 74         | 40.6     | 31.92    | 6.41   | 27.33  | 100    | 345     | P       | V       |
|                                     |                                                                                             | 5351.28   | 44.23      | -9.77  | 54         | 33.61    | 31.61    | 6.37   | 27.36  | 100    | 345     | A       | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 5106.08   | 52.02      | -21.98 | 74         | 41.06    | 32.11    | 6.27   | 27.42  | 255    | 106     | P       | H       |
|                                     |                                                                                             | 5044.88   | 44.07      | -9.93  | 54         | 33.19    | 32.07    | 6.25   | 27.44  | 255    | 106     | A       | H       |
|                                     | *                                                                                           | 5310      | 95.79      | -      | -          | 85.14    | 31.68    | 6.34   | 27.37  | 255    | 106     | P       | H       |
|                                     | *                                                                                           | 5310      | 87.85      | -      | -          | 77.2     | 31.68    | 6.34   | 27.37  | 255    | 106     | A       | H       |
|                                     |                                                                                             | 5351.76   | 55.05      | -18.95 | 74         | 44.43    | 31.61    | 6.37   | 27.36  | 255    | 106     | P       | H       |
|                                     |                                                                                             | 5350.08   | 47.73      | -6.27  | 54         | 37.12    | 31.6     | 6.37   | 27.36  | 255    | 106     | A       | H       |
|                                     |                                                                                             | 5021.08   | 52.24      | -21.76 | 74         | 41.5     | 31.93    | 6.25   | 27.44  | 104    | 346     | P       | V       |
|                                     |                                                                                             | 5078.2    | 43.88      | -10.12 | 54         | 32.95    | 32.1     | 6.26   | 27.43  | 104    | 346     | A       | V       |
|                                     | *                                                                                           | 5310      | 100.73     | -      | -          | 90.08    | 31.68    | 6.34   | 27.37  | 104    | 346     | P       | V       |
|                                     | *                                                                                           | 5310      | 92.53      | -      | -          | 81.88    | 31.68    | 6.34   | 27.37  | 104    | 346     | A       | V       |
|                                     |                                                                                             | 5350.08   | 58.26      | -15.74 | 74         | 47.65    | 31.6     | 6.37   | 27.36  | 104    | 346     | P       | V       |
|                                     |                                                                                             | 5350.08   | 51.86      | -2.14  | 54         | 41.25    | 31.6     | 6.37   | 27.36  | 104    | 346     | 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                                | Note                                                                                                                                                                                                                                   | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak       | Pol.  |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|------------|-------|
| Ant.                                |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | Avg. (P/A) | (H/V) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |                                                                                                                                                                                                                                        | 10540     | 48.66      | -19.54 | 68.2       | 54.5   | 40.32    | 10.24  | 56.4   | -      | -       | P          | H     |
|                                     |                                                                                                                                                                                                                                        | 15810     | 44.64      | -29.36 | 74         | 49.58  | 38.61    | 12.06  | 55.61  | -      | -       | P          | H     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |                                                                                                                                                                                                                                        | 10540     | 49.35      | -18.85 | 68.2       | 55.19  | 40.32    | 10.24  | 56.4   | -      | -       | P          | V     |
|                                     |                                                                                                                                                                                                                                        | 15810     | 45.1       | -28.9  | 74         | 50.04  | 38.61    | 12.06  | 55.61  | -      | -       | P          | V     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | V     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | V     |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                                                                                                                                                                        | 10620     | 47.73      | -26.27 | 74         | 53.48  | 40.26    | 10.28  | 56.29  | -      | -       | P          | H     |
|                                     |                                                                                                                                                                                                                                        | 15930     | 46.36      | -27.64 | 74         | 51.03  | 38.61    | 12.07  | 55.35  | -      | -       | P          | H     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | H     |
|                                     |                                                                                                                                                                                                                                        | 10620     | 47.81      | -26.19 | 74         | 53.56  | 40.26    | 10.28  | 56.29  | -      | -       | P          | V     |
|                                     |                                                                                                                                                                                                                                        | 15930     | 45.89      | -28.11 | 74         | 50.56  | 38.61    | 12.07  | 55.35  | -      | -       | P          | V     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | V     |
|                                     |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |            | V     |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |            |       |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (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.    |         |
| 4                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 5112.88   | 52.02      | -21.98 | 74         | 41.04    | 32.13    | 6.27   | 27.42  | 258    | 106     | P       | H       |
|                                       |                                                                                             | 5126.14   | 43.73      | -10.27 | 54         | 32.73    | 32.15    | 6.27   | 27.42  | 258    | 106     | A       | H       |
|                                       | *                                                                                           | 5290      | 91.78      | -      | -          | 81.09    | 31.72    | 6.34   | 27.37  | 258    | 106     | P       | H       |
|                                       | *                                                                                           | 5290      | 84.27      | -      | -          | 73.58    | 31.72    | 6.34   | 27.37  | 258    | 106     | A       | H       |
|                                       |                                                                                             | 5355.12   | 56.36      | -17.64 | 74         | 45.72    | 31.63    | 6.37   | 27.36  | 258    | 106     | P       | H       |
|                                       |                                                                                             | 5350.8    | 49.02      | -4.98  | 54         | 38.41    | 31.6     | 6.37   | 27.36  | 258    | 106     | A       | H       |
|                                       |                                                                                             | 5032.64   | 51.7       | -22.3  | 74         | 40.89    | 32       | 6.25   | 27.44  | 103    | 347     | P       | V       |
|                                       |                                                                                             | 5147.22   | 43.71      | -10.29 | 54         | 32.65    | 32.19    | 6.28   | 27.41  | 103    | 347     | A       | V       |
|                                       | *                                                                                           | 5290      | 96.72      | -      | -          | 86.03    | 31.72    | 6.34   | 27.37  | 103    | 347     | P       | V       |
|                                       | *                                                                                           | 5290      | 89.17      | -      | -          | 78.48    | 31.72    | 6.34   | 27.37  | 103    | 347     | A       | V       |
|                                       |                                                                                             | 5358      | 59.4       | -14.6  | 74         | 48.74    | 31.65    | 6.37   | 27.36  | 103    | 347     | P       | V       |
|                                       |                                                                                             | 5350.32   | 53.07      | -0.93  | 54         | 42.46    | 31.6     | 6.37   | 27.36  | 103    | 347     | 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                                  | Note                                                                                                                                                                                                                                   | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                  |                                                                                                                                                                                                                                        |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 4                                     |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                                                                                                                                                                        | 10580     | 47.9       | -20.3  | 68.2       | 53.75    | 40.24    | 10.26  | 56.35  | -      | -       | P       | H       |
|                                       |                                                                                                                                                                                                                                        | 15870     | 45.96      | -28.04 | 74         | 50.7     | 38.67    | 12.07  | 55.48  | -      | -       | P       | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        | 10580     | 47.81      | -20.39 | 68.2       | 53.66    | 40.24    | 10.26  | 56.35  | -      | -       | P       | V       |
|                                       |                                                                                                                                                                                                                                        | 15870     | 44.97      | -29.03 | 74         | 49.71    | 38.67    | 12.07  | 55.48  | -      | -       | P       | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |          |          |        |        |        |         |         |         |



## 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.    |         |
| 4                            |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5394.8    | 51.73      | -22.27 | 74         | 40.82    | 31.87    | 6.39   | 27.35  | 260    | 105     | P       | H       |
|                              |      | 5467.12   | 53.26      | -14.94 | 68.2       | 42.21    | 31.97    | 6.41   | 27.33  | 260    | 105     | P       | H       |
|                              |      | 5460      | 42.22      | -11.78 | 54         | 31.2     | 31.94    | 6.41   | 27.33  | 260    | 105     | A       | H       |
|                              | *    | 5500      | 102.8      | -      | -          | 91.6     | 32.1     | 6.42   | 27.32  | 260    | 105     | P       | H       |
|                              | *    | 5500      | 95.24      | -      | -          | 84.04    | 32.1     | 6.42   | 27.32  | 260    | 105     | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5456.72   | 53.33      | -20.67 | 74         | 42.32    | 31.93    | 6.41   | 27.33  | 187    | 331     | P       | V       |
|                              |      | 5469.52   | 56.67      | -11.53 | 68.2       | 45.61    | 31.98    | 6.41   | 27.33  | 187    | 331     | P       | V       |
|                              |      | 5460      | 44.11      | -9.89  | 54         | 33.09    | 31.94    | 6.41   | 27.33  | 187    | 331     | A       | V       |
|                              | *    | 5500      | 107.43     | -      | -          | 96.23    | 32.1     | 6.42   | 27.32  | 187    | 331     | P       | V       |
|                              | *    | 5500      | 99.86      | -      | -          | 88.66    | 32.1     | 6.42   | 27.32  | 187    | 331     | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5442.64   | 50.47      | -23.53 | 74         | 39.5     | 31.9     | 6.4    | 27.33  | 243    | 106     | P       | H       |
|                              |      | 5466.64   | 50.41      | -17.79 | 68.2       | 39.36    | 31.97    | 6.41   | 27.33  | 243    | 106     | P       | H       |
|                              |      | 5459.44   | 40.9       | -13.1  | 54         | 29.88    | 31.94    | 6.41   | 27.33  | 243    | 106     | A       | H       |
|                              | *    | 5580      | 103.15     | -      | -          | 92.09    | 32       | 6.44   | 27.38  | 243    | 106     | P       | H       |
|                              | *    | 5580      | 95.43      | -      | -          | 84.37    | 32       | 6.44   | 27.38  | 243    | 106     | A       | H       |
|                              |      | 5756.81   | 50.81      | -17.39 | 68.2       | 39.51    | 32.4     | 6.4    | 27.5   | 243    | 106     | P       | H       |
|                              |      | 5456.8    | 50.93      | -23.07 | 74         | 39.92    | 31.93    | 6.41   | 27.33  | 100    | 336     | P       | V       |
|                              |      | 5470      | 50.4       | -17.8  | 68.2       | 39.34    | 31.98    | 6.41   | 27.33  | 100    | 336     | P       | V       |
|                              |      | 5459.44   | 41.07      | -12.93 | 54         | 30.05    | 31.94    | 6.41   | 27.33  | 100    | 336     | A       | V       |
|                              | *    | 5580      | 106.45     | -      | -          | 95.39    | 32       | 6.44   | 27.38  | 100    | 336     | P       | V       |
|                              | *    | 5580      | 98.81      | -      | -          | 87.75    | 32       | 6.44   | 27.38  | 100    | 336     | A       | V       |
|                              |      | 5739.8    | 51.73      | -16.47 | 68.2       | 40.45    | 32.36    | 6.41   | 27.49  | 100    | 336     | P       | V       |



|                                                                                                                                                             |   |         |        |        |      |       |       |      |       |     |     |   |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------|--------|--------|------|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b>                                                                                                                       | * | 5700    | 100.31 | -      | -    | 89.15 | 32.2  | 6.42 | 27.46 | 247 | 105 | P | H |
|                                                                                                                                                             | * | 5700    | 92.5   | -      | -    | 81.34 | 32.2  | 6.42 | 27.46 | 247 | 105 | A | H |
|                                                                                                                                                             |   | 5725.96 | 53.96  | -14.24 | 68.2 | 42.73 | 32.3  | 6.41 | 27.48 | 247 | 105 | P | H |
|                                                                                                                                                             |   |         |        |        |      |       |       |      |       |     |     |   | H |
|                                                                                                                                                             |   |         |        |        |      |       |       |      |       |     |     |   | H |
|                                                                                                                                                             |   |         |        |        |      |       |       |      |       |     |     |   | H |
|                                                                                                                                                             | * | 5700    | 108.1  | -      | -    | 96.94 | 32.2  | 6.42 | 27.46 | 105 | 343 | P | V |
|                                                                                                                                                             | * | 5700    | 100.52 | -      | -    | 89.36 | 32.2  | 6.42 | 27.46 | 105 | 343 | A | V |
|                                                                                                                                                             |   | 5727.08 | 60.1   | -8.1   | 68.2 | 48.86 | 32.31 | 6.41 | 27.48 | 105 | 343 | P | V |
|                                                                                                                                                             |   |         |        |        |      |       |       |      |       |     |     |   | V |
|                                                                                                                                                             |   |         |        |        |      |       |       |      |       |     |     |   | V |
|                                                                                                                                                             |   |         |        |        |      |       |       |      |       |     |     |   | V |
| <b>Remark</b> <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |   |         |        |        |      |       |       |      |       |     |     |   |   |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Harmonic @ 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.  |       |
| 4                                     |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| <b>802.11a<br/>CH 100<br/>5500MHz</b> |                                                                                                                                                                                                                                        | 11000     | 52.42      | -21.58 | 74         | 57.02  | 40.7     | 10.47  | 55.77  | 100    | 336     | P     | H     |
|                                       |                                                                                                                                                                                                                                        | 11000     | 40.11      | -13.89 | 54         | 44.71  | 40.7     | 10.47  | 55.77  | 100    | 336     | A     | H     |
|                                       |                                                                                                                                                                                                                                        | 16500     | 46.37      | -21.83 | 68.2       | 49.52  | 39.9     | 12.26  | 55.31  | -      | -       | P     | H     |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                                                                                                                                                                        | 11000     | 53.91      | -20.09 | 74         | 58.51  | 40.7     | 10.47  | 55.77  | 208    | 13      | P     | V     |
|                                       |                                                                                                                                                                                                                                        | 11000     | 42.56      | -11.44 | 54         | 47.16  | 40.7     | 10.47  | 55.77  | 208    | 13      | A     | V     |
|                                       |                                                                                                                                                                                                                                        | 16500     | 47.59      | -20.61 | 68.2       | 50.74  | 39.9     | 12.26  | 55.31  | -      | -       | P     | V     |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| <b>802.11a<br/>CH 116<br/>5580MHz</b> |                                                                                                                                                                                                                                        | 11160     | 51.84      | -22.16 | 74         | 57.11  | 39.96    | 10.54  | 55.77  | 190    | 353     | P     | H     |
|                                       |                                                                                                                                                                                                                                        | 11160     | 40.03      | -13.97 | 54         | 45.3   | 39.96    | 10.54  | 55.77  | 190    | 353     | A     | H     |
|                                       |                                                                                                                                                                                                                                        | 16740     | 47.48      | -20.72 | 68.2       | 50.4   | 40.26    | 12.35  | 55.53  | -      | -       | P     | H     |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                                                                                                                                                                        | 11160     | 54.15      | -19.85 | 74         | 59.42  | 39.96    | 10.54  | 55.77  | 203    | 359     | P     | V     |
|                                       |                                                                                                                                                                                                                                        | 11160     | 42.6       | -11.4  | 54         | 47.87  | 39.96    | 10.54  | 55.77  | 203    | 359     | A     | V     |
|                                       |                                                                                                                                                                                                                                        | 16740     | 47.07      | -21.13 | 68.2       | 49.99  | 40.26    | 12.35  | 55.53  | -      | -       | P     | V     |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| <b>802.11a<br/>CH 140<br/>5700MHz</b> |                                                                                                                                                                                                                                        | 11400     | 51.22      | -22.78 | 74         | 56.46  | 39.9     | 10.64  | 55.78  | 219    | 350     | P     | H     |
|                                       |                                                                                                                                                                                                                                        | 11400     | 39.34      | -14.66 | 54         | 44.58  | 39.9     | 10.64  | 55.78  | 219    | 350     | A     | H     |
|                                       |                                                                                                                                                                                                                                        | 17100     | 47.55      | -20.65 | 68.2       | 50.58  | 40.4     | 12.52  | 55.95  | -      | -       | P     | H     |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                                                                                                                                                                        | 11400     | 54.38      | -19.62 | 74         | 59.62  | 39.9     | 10.64  | 55.78  | 204    | 360     | P     | V     |
|                                       |                                                                                                                                                                                                                                        | 11400     | 42.74      | -11.26 | 54         | 47.98  | 39.9     | 10.64  | 55.78  | 204    | 360     | A     | V     |
|                                       |                                                                                                                                                                                                                                        | 17100     | 48.62      | -19.58 | 68.2       | 51.65  | 40.4     | 12.52  | 55.95  | -      | -       | P     | V     |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (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.    |         |
| 4                                    |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5456.24   | 51.35      | -22.65 | 74         | 40.35    | 31.92    | 6.41   | 27.33  | 256    | 106     | P       | H       |
|                                      |      | 5468.56   | 54.74      | -13.46 | 68.2       | 43.69    | 31.97    | 6.41   | 27.33  | 256    | 106     | P       | H       |
|                                      |      | 5460      | 42.4       | -11.6  | 54         | 31.38    | 31.94    | 6.41   | 27.33  | 256    | 106     | A       | H       |
|                                      | *    | 5500      | 104.03     | -      | -          | 92.83    | 32.1     | 6.42   | 27.32  | 256    | 106     | P       | H       |
|                                      | *    | 5500      | 95.38      | -      | -          | 84.18    | 32.1     | 6.42   | 27.32  | 256    | 106     | A       | H       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |      | 5459.92   | 53.8       | -20.2  | 74         | 42.78    | 31.94    | 6.41   | 27.33  | 226    | 325     | P       | V       |
|                                      |      | 5467.12   | 57.85      | -10.35 | 68.2       | 46.8     | 31.97    | 6.41   | 27.33  | 226    | 325     | P       | V       |
|                                      |      | 5460      | 43.95      | -10.05 | 54         | 32.93    | 31.94    | 6.41   | 27.33  | 226    | 325     | A       | V       |
|                                      | *    | 5500      | 107.43     | -      | -          | 96.23    | 32.1     | 6.42   | 27.32  | 226    | 325     | P       | V       |
|                                      | *    | 5500      | 99.32      | -      | -          | 88.12    | 32.1     | 6.42   | 27.32  | 226    | 325     | A       | V       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5396.32   | 52.07      | -21.93 | 74         | 41.15    | 31.88    | 6.39   | 27.35  | 244    | 106     | P       | H       |
|                                      |      | 5460.16   | 50.38      | -17.82 | 68.2       | 39.36    | 31.94    | 6.41   | 27.33  | 244    | 106     | P       | H       |
|                                      |      | 5459.92   | 41.27      | -12.73 | 54         | 30.25    | 31.94    | 6.41   | 27.33  | 244    | 106     | A       | H       |
|                                      | *    | 5580      | 103.53     | -      | -          | 92.47    | 32       | 6.44   | 27.38  | 244    | 106     | P       | H       |
|                                      | *    | 5580      | 95.55      | -      | -          | 84.49    | 32       | 6.44   | 27.38  | 244    | 106     | A       | H       |
|                                      |      | 5730.665  | 51.9       | -16.3  | 68.2       | 40.66    | 32.32    | 6.41   | 27.49  | 244    | 106     | P       | H       |
|                                      |      | 5440.24   | 52.08      | -21.92 | 74         | 41.12    | 31.9     | 6.4    | 27.34  | 232    | 325     | P       | V       |
|                                      |      | 5460.4    | 50         | -18.2  | 68.2       | 38.98    | 31.94    | 6.41   | 27.33  | 232    | 325     | P       | V       |
|                                      |      | 5459.44   | 41.56      | -12.44 | 54         | 30.54    | 31.94    | 6.41   | 27.33  | 232    | 325     | A       | V       |
|                                      | *    | 5580      | 107.96     | -      | -          | 96.9     | 32       | 6.44   | 27.38  | 232    | 325     | P       | V       |
|                                      | *    | 5580      | 100.01     | -      | -          | 88.95    | 32       | 6.44   | 27.38  | 232    | 325     | A       | V       |
|                                      |      | 5747.99   | 51.43      | -16.77 | 68.2       | 40.13    | 32.39    | 6.41   | 27.5   | 232    | 325     | P       | V       |



|                                                                                                                                                             |   |         |        |        |      |       |      |      |       |     |     |   |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------|--------|--------|------|-------|------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 140</b><br><b>5700MHz</b>                                                                                            | * | 5700    | 100.44 | -      | -    | 89.28 | 32.2 | 6.42 | 27.46 | 242 | 104 | P | H |
|                                                                                                                                                             | * | 5700    | 92.41  | -      | -    | 81.25 | 32.2 | 6.42 | 27.46 | 242 | 104 | A | H |
|                                                                                                                                                             |   | 5725    | 55.52  | -12.68 | 68.2 | 44.29 | 32.3 | 6.41 | 27.48 | 242 | 104 | P | H |
|                                                                                                                                                             |   |         |        |        |      |       |      |      |       |     |     |   | H |
|                                                                                                                                                             |   |         |        |        |      |       |      |      |       |     |     |   | H |
|                                                                                                                                                             |   |         |        |        |      |       |      |      |       |     |     |   | H |
|                                                                                                                                                             | * | 5700    | 107.73 | -      | -    | 96.57 | 32.2 | 6.42 | 27.46 | 100 | 332 | P | V |
|                                                                                                                                                             | * | 5700    | 100.07 | -      | -    | 88.91 | 32.2 | 6.42 | 27.46 | 100 | 332 | A | V |
|                                                                                                                                                             |   | 5726.04 | 62.64  | -5.56  | 68.2 | 51.41 | 32.3 | 6.41 | 27.48 | 100 | 332 | P | V |
|                                                                                                                                                             |   |         |        |        |      |       |      |      |       |     |     |   | V |
|                                                                                                                                                             |   |         |        |        |      |       |      |      |       |     |     |   | V |
|                                                                                                                                                             |   |         |        |        |      |       |      |      |       |     |     |   | V |
| <b>Remark</b> <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |   |         |        |        |      |       |      |      |       |     |     |   |   |



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

| WIFI                                 | Note                                                                                                                                                                                                                                   | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                 |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT20<br>CH 100<br>5500MHz |                                                                                                                                                                                                                                        | 11000     | 51.33      | -22.67 | 74         | 55.93  | 40.7     | 10.47  | 55.77  | 213    | 344     | P     | H     |
|                                      |                                                                                                                                                                                                                                        | 11000     | 40.55      | -13.45 | 54         | 45.15  | 40.7     | 10.47  | 55.77  | 213    | 344     | A     | H     |
|                                      |                                                                                                                                                                                                                                        | 16500     | 46.89      | -21.31 | 68.2       | 50.04  | 39.9     | 12.26  | 55.31  | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        | 11000     | 52.57      | -21.43 | 74         | 57.17  | 40.7     | 10.47  | 55.77  | 292    | 20      | P     | V     |
|                                      |                                                                                                                                                                                                                                        | 11000     | 41.75      | -12.25 | 54         | 46.35  | 40.7     | 10.47  | 55.77  | 292    | 20      | A     | V     |
|                                      |                                                                                                                                                                                                                                        | 16500     | 47.06      | -21.14 | 68.2       | 50.21  | 39.9     | 12.26  | 55.31  | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |                                                                                                                                                                                                                                        | 11160     | 49.88      | -24.12 | 74         | 55.15  | 39.96    | 10.54  | 55.77  | 204    | 350     | P     | H     |
|                                      |                                                                                                                                                                                                                                        | 11160     | 39.52      | -14.48 | 54         | 44.79  | 39.96    | 10.54  | 55.77  | 204    | 350     | A     | H     |
|                                      |                                                                                                                                                                                                                                        | 16740     | 46.95      | -21.25 | 68.2       | 49.87  | 40.26    | 12.35  | 55.53  | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        | 11160     | 52.36      | -21.64 | 74         | 57.63  | 39.96    | 10.54  | 55.77  | 296    | 20      | P     | V     |
|                                      |                                                                                                                                                                                                                                        | 11160     | 41.04      | -12.96 | 54         | 46.31  | 39.96    | 10.54  | 55.77  | 296    | 20      | A     | V     |
|                                      |                                                                                                                                                                                                                                        | 16740     | 46.83      | -21.37 | 68.2       | 49.75  | 40.26    | 12.35  | 55.53  | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |                                                                                                                                                                                                                                        | 11400     | 49.62      | -24.38 | 74         | 54.86  | 39.9     | 10.64  | 55.78  | 211    | 348     | P     | H     |
|                                      |                                                                                                                                                                                                                                        | 11400     | 39.19      | -14.81 | 54         | 44.43  | 39.9     | 10.64  | 55.78  | 211    | 348     | A     | H     |
|                                      |                                                                                                                                                                                                                                        | 17100     | 48.01      | -20.19 | 68.2       | 51.04  | 40.4     | 12.52  | 55.95  | -      | -       | P     | H     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                                                                                                                                                                        | 11400     | 54.07      | -19.93 | 74         | 59.31  | 39.9     | 10.64  | 55.78  | 213    | 6       | P     | V     |
|                                      |                                                                                                                                                                                                                                        | 11400     | 43.07      | -10.93 | 54         | 48.31  | 39.9     | 10.64  | 55.78  | 213    | 6       | A     | V     |
|                                      |                                                                                                                                                                                                                                        | 17100     | 47.86      | -20.34 | 68.2       | 50.89  | 40.4     | 12.52  | 55.95  | -      | -       | P     | V     |
|                                      |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |





**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT40 (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.    |         |
| 4                                    |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5458.96   | 53.76      | -20.24 | 74         | 42.74    | 31.94    | 6.41   | 27.33  | 246    | 104     | P       | H       |
|                                      |      | 5468.08   | 60.78      | -7.42  | 68.2       | 49.73    | 31.97    | 6.41   | 27.33  | 246    | 104     | P       | H       |
|                                      |      | 5459.92   | 46.4       | -7.6   | 54         | 35.38    | 31.94    | 6.41   | 27.33  | 246    | 104     | A       | H       |
|                                      | *    | 5510      | 99.82      | -      | -          | 88.65    | 32.08    | 6.42   | 27.33  | 246    | 104     | P       | H       |
|                                      | *    | 5510      | 91.44      | -      | -          | 80.27    | 32.08    | 6.42   | 27.33  | 246    | 104     | A       | H       |
|                                      |      | 5740.745  | 51.57      | -16.63 | 68.2       | 40.29    | 32.36    | 6.41   | 27.49  | 246    | 104     | P       | H       |
|                                      |      | 5459.68   | 61.27      | -12.73 | 74         | 50.25    | 31.94    | 6.41   | 27.33  | 188    | 332     | P       | V       |
|                                      |      | 5466.88   | 66.78      | -1.42  | 68.2       | 55.73    | 31.97    | 6.41   | 27.33  | 188    | 332     | P       | V       |
|                                      |      | 5459.92   | 50.6       | -3.4   | 54         | 39.58    | 31.94    | 6.41   | 27.33  | 188    | 332     | A       | V       |
|                                      | *    | 5510      | 104.25     | -      | -          | 93.08    | 32.08    | 6.42   | 27.33  | 188    | 332     | P       | V       |
|                                      | *    | 5510      | 95.12      | -      | -          | 83.95    | 32.08    | 6.42   | 27.33  | 188    | 332     | A       | V       |
|                                      |      | 5753.66   | 51.7       | -16.5  | 68.2       | 40.4     | 32.4     | 6.4    | 27.5   | 188    | 332     | P       | V       |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5398.72   | 51.33      | -22.67 | 74         | 40.4     | 31.89    | 6.39   | 27.35  | 255    | 107     | P       | H       |
|                                      |      | 5467.12   | 51.34      | -16.86 | 68.2       | 40.29    | 31.97    | 6.41   | 27.33  | 255    | 107     | P       | H       |
|                                      |      | 5458.72   | 42.91      | -11.09 | 54         | 31.9     | 31.93    | 6.41   | 27.33  | 255    | 107     | A       | H       |
|                                      | *    | 5550      | 102.07     | -      | -          | 91       | 32       | 6.43   | 27.36  | 255    | 107     | P       | H       |
|                                      | *    | 5550      | 93.36      | -      | -          | 82.29    | 32       | 6.43   | 27.36  | 255    | 107     | A       | H       |
|                                      |      | 5752.4    | 51.29      | -16.91 | 68.2       | 39.99    | 32.4     | 6.4    | 27.5   | 255    | 107     | P       | H       |
|                                      |      | 5448.64   | 51.14      | -22.86 | 74         | 40.17    | 31.9     | 6.4    | 27.33  | 100    | 330     | P       | V       |
|                                      |      | 5461.36   | 52.65      | -15.55 | 68.2       | 41.62    | 31.95    | 6.41   | 27.33  | 100    | 330     | P       | V       |
|                                      |      | 5459.44   | 43.75      | -10.25 | 54         | 32.73    | 31.94    | 6.41   | 27.33  | 100    | 330     | A       | V       |
|                                      | *    | 5550      | 105.59     | -      | -          | 94.52    | 32       | 6.43   | 27.36  | 100    | 330     | P       | V       |
|                                      | *    | 5550      | 97         | -      | -          | 85.93    | 32       | 6.43   | 27.36  | 100    | 330     | A       | V       |
|                                      |      | 5752.715  | 51.49      | -16.71 | 68.2       | 40.19    | 32.4     | 6.4    | 27.5   | 100    | 330     | P       | V       |



|                                                                  |                                                                                             |          |        |        |      |       |       |      |       |     |     |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|--------|--------|------|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5401.1   | 49.48  | -24.52 | 74   | 38.54 | 31.9  | 6.39 | 27.35 | 274 | 112 | P | H |
|                                                                  |                                                                                             | 5470     | 49.99  | -18.21 | 68.2 | 38.93 | 31.98 | 6.41 | 27.33 | 274 | 112 | P | H |
|                                                                  |                                                                                             | 5444.85  | 42.2   | -11.8  | 54   | 31.23 | 31.9  | 6.4  | 27.33 | 274 | 112 | A | H |
|                                                                  | *                                                                                           | 5670     | 96.65  | -      | -    | 85.64 | 32.02 | 6.43 | 27.44 | 274 | 112 | P | H |
|                                                                  | *                                                                                           | 5670     | 89.4   | -      | -    | 78.39 | 32.02 | 6.43 | 27.44 | 274 | 112 | A | H |
|                                                                  |                                                                                             | 5727.83  | 50.37  | -17.83 | 68.2 | 39.13 | 32.31 | 6.41 | 27.48 | 274 | 112 | P | H |
|                                                                  |                                                                                             | 5429.1   | 49.68  | -24.32 | 74   | 38.72 | 31.9  | 6.4  | 27.34 | 100 | 337 | P | V |
|                                                                  |                                                                                             | 5461.65  | 49.06  | -19.14 | 68.2 | 38.03 | 31.95 | 6.41 | 27.33 | 100 | 337 | P | V |
|                                                                  |                                                                                             | 5395.5   | 42.39  | -11.61 | 54   | 31.48 | 31.87 | 6.39 | 27.35 | 100 | 337 | A | V |
|                                                                  | *                                                                                           | 5670     | 105.33 | -      | -    | 94.32 | 32.02 | 6.43 | 27.44 | 100 | 337 | P | V |
|                                                                  | *                                                                                           | 5670     | 97.28  | -      | -    | 86.27 | 32.02 | 6.43 | 27.44 | 100 | 337 | A | V |
|                                                                  |                                                                                             | 5732.555 | 56.79  | -11.41 | 68.2 | 45.54 | 32.33 | 6.41 | 27.49 | 100 | 337 | 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                                  | Note                                                                                                                                                                                                                                   | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                  |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 4                                     |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         |         |
| 802.11n<br>HT40<br>CH 102<br>5510MHz  |                                                                                                                                                                                                                                        | 11020     | 50.44      | -23.56 | 74         | 55.13    | 40.6     | 10.48  | 55.77  | 198    | 348     | P       | H       |
|                                       |                                                                                                                                                                                                                                        | 11020     | 40.7       | -13.3  | 54         | 45.39    | 40.6     | 10.48  | 55.77  | 198    | 348     | A       | H       |
|                                       |                                                                                                                                                                                                                                        | 16530     | 46.9       | -21.3  | 68.2       | 50.1     | 39.87    | 12.27  | 55.34  | -      | -       | P       | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        | 11020     | 50.54      | -23.46 | 74         | 55.23    | 40.6     | 10.48  | 55.77  | 301    | 23      | P       | V       |
|                                       |                                                                                                                                                                                                                                        | 11020     | 41.39      | -12.61 | 54         | 46.08    | 40.6     | 10.48  | 55.77  | 301    | 23      | A       | V       |
|                                       |                                                                                                                                                                                                                                        | 16530     | 46.56      | -21.64 | 68.2       | 49.76    | 39.87    | 12.27  | 55.34  | -      | -       | P       | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 110<br>5550MHz  |                                                                                                                                                                                                                                        | 11100     | 50.13      | -23.87 | 74         | 55.19    | 40.2     | 10.51  | 55.77  | 197    | 344     | P       | H       |
|                                       |                                                                                                                                                                                                                                        | 11100     | 40.35      | -13.65 | 54         | 45.41    | 40.2     | 10.51  | 55.77  | 197    | 344     | A       | H       |
|                                       |                                                                                                                                                                                                                                        | 16650     | 46.97      | -21.23 | 68.2       | 50.16    | 39.95    | 12.31  | 55.45  | -      | -       | P       | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        | 11100     | 50.69      | -23.31 | 74         | 55.75    | 40.2     | 10.51  | 55.77  | 265    | 17      | P       | V       |
|                                       |                                                                                                                                                                                                                                        | 11100     | 41.72      | -12.28 | 54         | 46.78    | 40.2     | 10.51  | 55.77  | 265    | 17      | A       | V       |
|                                       |                                                                                                                                                                                                                                        | 16650     | 47.28      | -20.92 | 68.2       | 50.47    | 39.95    | 12.31  | 55.45  | -      | -       | P       | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
| i802.11n<br>HT40<br>CH 134<br>5670MHz |                                                                                                                                                                                                                                        | 11340     | 47.79      | -26.21 | 74         | 53.18    | 39.78    | 10.61  | 55.78  | -      | -       | P       | H       |
|                                       |                                                                                                                                                                                                                                        | 17010     | 47.83      | -20.37 | 68.2       | 50.68    | 40.49    | 12.45  | 55.79  | -      | -       | P       | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                                                                                                                                                                        | 11340     | 47.94      | -26.06 | 74         | 53.33    | 39.78    | 10.61  | 55.78  | -      | -       | P       | V       |
|                                       |                                                                                                                                                                                                                                        | 17010     | 47.71      | -20.49 | 68.2       | 50.56    | 40.49    | 12.45  | 55.79  | -      | -       | P       | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                                                                                                                                                                        |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |          |          |        |        |        |         |         |         |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT80 (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.    |         |
| 4                                      |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 5454.4    | 56.96      | -17.04 | 74         | 45.96    | 31.92    | 6.41   | 27.33  | 249    | 105     | P       | H       |
|                                        |                                                                                             | 5468.32   | 58.38      | -9.82  | 68.2       | 47.33    | 31.97    | 6.41   | 27.33  | 249    | 105     | P       | H       |
|                                        |                                                                                             | 5459.68   | 49.65      | -4.35  | 54         | 38.63    | 31.94    | 6.41   | 27.33  | 249    | 105     | A       | H       |
|                                        | *                                                                                           | 5530      | 94.65      | -      | -          | 83.52    | 32.04    | 6.43   | 27.34  | 249    | 105     | P       | H       |
|                                        | *                                                                                           | 5530      | 86.27      | -      | -          | 75.14    | 32.04    | 6.43   | 27.34  | 249    | 105     | A       | H       |
|                                        |                                                                                             | 5759.645  | 51.2       | -17    | 68.2       | 39.91    | 32.4     | 6.4    | 27.51  | 249    | 105     | P       | H       |
|                                        |                                                                                             | 5449.84   | 60.38      | -13.62 | 74         | 49.41    | 31.9     | 6.4    | 27.33  | 105    | 337     | P       | V       |
|                                        |                                                                                             | 5464.72   | 62.93      | -5.27  | 68.2       | 51.89    | 31.96    | 6.41   | 27.33  | 105    | 337     | P       | V       |
|                                        |                                                                                             | 5459.68   | 53.42      | -0.58  | 54         | 42.4     | 31.94    | 6.41   | 27.33  | 105    | 337     | A       | V       |
|                                        | *                                                                                           | 5530      | 99.4       | -      | -          | 88.27    | 32.04    | 6.43   | 27.34  | 105    | 337     | P       | V       |
|                                        | *                                                                                           | 5530      | 91.08      | -      | -          | 79.95    | 32.04    | 6.43   | 27.34  | 105    | 337     | A       | V       |
|                                        |                                                                                             | 5743.58   | 50.84      | -17.36 | 68.2       | 39.56    | 32.37    | 6.41   | 27.5   | 105    | 337     | P       | V       |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5353.15   | 49.9       | -24.1  | 74         | 39.27    | 31.62    | 6.37   | 27.36  | 241    | 106     | P       | H       |
|                                        |                                                                                             | 5460.6    | 49.59      | -18.61 | 68.2       | 38.57    | 31.94    | 6.41   | 27.33  | 241    | 106     | P       | H       |
|                                        |                                                                                             | 5458.85   | 42.94      | -11.06 | 54         | 31.92    | 31.94    | 6.41   | 27.33  | 241    | 106     | A       | H       |
|                                        | *                                                                                           | 5610      | 97.76      | -      | -          | 86.73    | 31.98    | 6.45   | 27.4   | 241    | 106     | P       | H       |
|                                        | *                                                                                           | 5610      | 89.21      | -      | -          | 78.18    | 31.98    | 6.45   | 27.4   | 241    | 106     | A       | H       |
|                                        |                                                                                             | 5739.17   | 53         | -15.2  | 68.2       | 41.72    | 32.36    | 6.41   | 27.49  | 241    | 106     | P       | H       |
|                                        |                                                                                             | 5432.95   | 50.16      | -23.84 | 74         | 39.2     | 31.9     | 6.4    | 27.34  | 100    | 336     | P       | V       |
|                                        |                                                                                             | 5465.15   | 49.28      | -18.92 | 68.2       | 38.24    | 31.96    | 6.41   | 27.33  | 100    | 336     | P       | V       |
|                                        |                                                                                             | 5459.9    | 43.16      | -10.84 | 54         | 32.14    | 31.94    | 6.41   | 27.33  | 100    | 336     | A       | V       |
|                                        | *                                                                                           | 5610      | 101.66     | -      | -          | 90.63    | 31.98    | 6.45   | 27.4   | 100    | 336     | P       | V       |
|                                        | *                                                                                           | 5610      | 93.51      | -      | -          | 82.48    | 31.98    | 6.45   | 27.4   | 100    | 336     | A       | V       |
|                                        |                                                                                             | 5737.91   | 53.46      | -14.74 | 68.2       | 42.19    | 32.35    | 6.41   | 27.49  | 100    | 336     | 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                                   | Note                                                                                                                                                                                                                                   | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                   |                                                                                                                                                                                                                                        |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 4                                      |                                                                                                                                                                                                                                        | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                                                                                                                                                                        | 11060     | 47.72      | -26.28 | 74         | 52.59  | 40.4     | 10.5   | 55.77  | -      | -       | P     | H     |
|                                        |                                                                                                                                                                                                                                        | 16590     | 47.25      | -20.95 | 68.2       | 50.54  | 39.81    | 12.29  | 55.39  | -      | -       | P     | H     |
|                                        |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                                                                                                                                                                        | 11060     | 47.6       | -26.4  | 74         | 52.47  | 40.4     | 10.5   | 55.77  | -      | -       | P     | V     |
|                                        |                                                                                                                                                                                                                                        | 16590     | 47.53      | -20.67 | 68.2       | 50.82  | 39.81    | 12.29  | 55.39  | -      | -       | P     | V     |
|                                        |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                                                                                                                                                                        | 11220     | 47.53      | -26.47 | 74         | 52.96  | 39.78    | 10.56  | 55.77  | -      | -       | P     | H     |
|                                        |                                                                                                                                                                                                                                        | 16830     | 46.67      | -21.53 | 68.2       | 49.37  | 40.53    | 12.38  | 55.61  | -      | -       | P     | H     |
|                                        |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                                                                                                                                                                        | 11220     | 47.66      | -26.34 | 74         | 53.09  | 39.78    | 10.56  | 55.77  | -      | -       | P     | V     |
|                                        |                                                                                                                                                                                                                                        | 16830     | 46.98      | -21.22 | 68.2       | 49.68  | 40.53    | 12.38  | 55.61  | -      | -       | P     | V     |
|                                        |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                                                                                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |



## Emission below 1GHz

## 5GHz WIFI 802.11ac VHT80 (LF @ 3m)

| WIFI<br>Ant.<br>4               | 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 ) |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 5GHz<br>802.11ac<br>VHT80<br>LF |                                                                                                                                                                                                                                        | 35.82                | 22.46               | -17.54                  | 40                          | 32.44                     | 21.5                          | 0.76                   | 32.24                      | -                    | -                       | P                       | H               |
|                                 |                                                                                                                                                                                                                                        | 125.06               | 20.82               | -22.68                  | 43.5                        | 34.38                     | 17.52                         | 1.16                   | 32.24                      | -                    | -                       | P                       | H               |
|                                 |                                                                                                                                                                                                                                        | 316.15               | 23.11               | -22.89                  | 46                          | 33.88                     | 19.38                         | 1.66                   | 31.81                      | -                    | -                       | P                       | H               |
|                                 |                                                                                                                                                                                                                                        | 564.47               | 27.07               | -18.93                  | 46                          | 31.35                     | 25.92                         | 2.16                   | 32.36                      | -                    | -                       | P                       | H               |
|                                 |                                                                                                                                                                                                                                        | 869.05               | 31.69               | -14.31                  | 46                          | 31.49                     | 28.78                         | 2.55                   | 31.13                      | -                    | -                       | P                       | H               |
|                                 |                                                                                                                                                                                                                                        | 941.8                | 32.1                | -13.9                   | 46                          | 30.55                     | 29.79                         | 2.59                   | 30.83                      | -                    | -                       | P                       | H               |
|                                 |                                                                                                                                                                                                                                        |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                 |                                                                                                                                                                                                                                        |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                 |                                                                                                                                                                                                                                        |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                 |                                                                                                                                                                                                                                        | 120.21               | 28.78               | -14.72                  | 43.5                        | 42.37                     | 17.5                          | 1.15                   | 32.24                      | -                    | -                       | P                       | V               |
|                                 |                                                                                                                                                                                                                                        | 127                  | 25.96               | -17.54                  | 43.5                        | 39.44                     | 17.61                         | 1.15                   | 32.24                      | -                    | -                       | P                       | V               |
|                                 |                                                                                                                                                                                                                                        | 439.34               | 25.79               | -20.21                  | 46                          | 32.62                     | 22.95                         | 1.92                   | 31.7                       | -                    | -                       | P                       | V               |
|                                 |                                                                                                                                                                                                                                        | 764.29               | 29.73               | -16.27                  | 46                          | 31.16                     | 27.73                         | 2.43                   | 31.59                      | -                    | -                       | P                       | V               |
|                                 |                                                                                                                                                                                                                                        | 861.29               | 30.92               | -15.08                  | 46                          | 30.66                     | 28.86                         | 2.55                   | 31.15                      | -                    | -                       | P                       | V               |
|                                 |                                                                                                                                                                                                                                        | 956.35               | 32.94               | -13.06                  | 46                          | 30.47                     | 30.62                         | 2.61                   | 30.76                      | -                    | -                       | P                       | V               |
|                                 |                                                                                                                                                                                                                                        |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                 |                                                                                                                                                                                                                                        |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                 |                                                                                                                                                                                                                                        |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**Note symbol**

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



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

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 4       |      | ( 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> | Yuan Lee, Jacky Hong, and Wilson Wu | <b>Temperature :</b>       | 20~25°C |
|                        |                                     | <b>Relative Humidity :</b> | 50~60%  |

### Note symbol

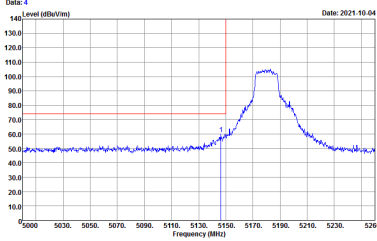
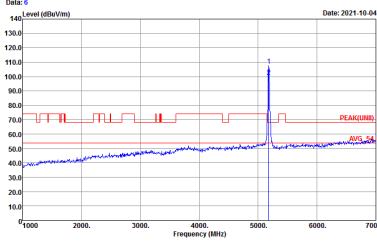
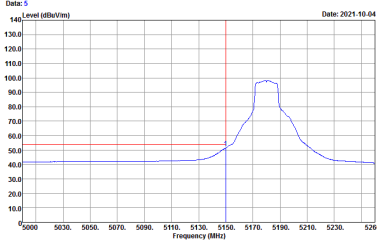
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |



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

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                 |                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                               |                                                                                                                    |
| 4    | Horizontal                                                                                                         | Fundamental                                                                                                        |
| Peak | <p>Date: 1<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                                                         |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                              |                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                          | Fundamental                                                                                                                                                       |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                                                        |

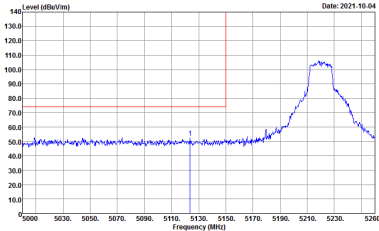
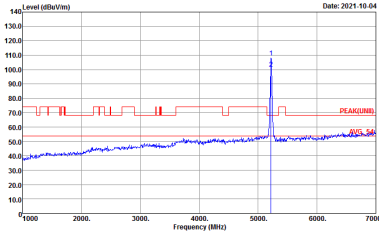
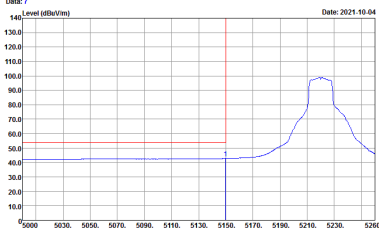


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                 |                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                           |                                                                                                                    |
| 4    | Horizontal                                                                                                         | Fundamental                                                                                                        |
| Peak | <p>Date: 1<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                         |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                               |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                                                                         |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                                       | Fundamental |
| Peak | <p>Graph 4: Peak measurement at 5220 MHz. The y-axis is Level (dBuV/m) from 10.0 to 140.0. The x-axis is Frequency (MHz) from 5180 to 5460. A peak is visible at 5220 MHz. The peak level is 100.0 dBuV/m. The peak is labeled PEAK_BE_74.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank  |
| Avg. | <p>Graph 5: Average measurement at 5220 MHz. The y-axis is Level (dBuV/m) from 10.0 to 140.0. The x-axis is Frequency (MHz) from 5180 to 5460. A peak is visible at 5220 MHz. The peak level is 100.0 dBuV/m. The peak is labeled AVG_BE_54.</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p> | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                                 |                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                              |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p>  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                               |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                               |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                         |             |
| 4    | Vertical                                                                                                                                         | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



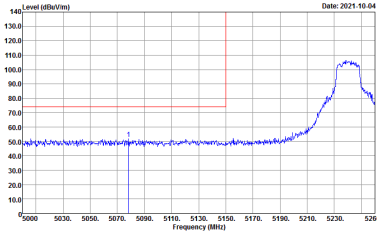
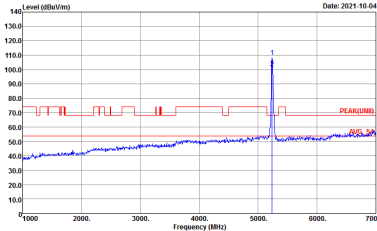
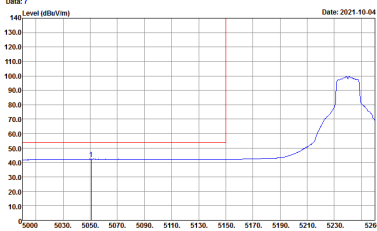
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                      |                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                |                                                                                                                                         |
| 4    | Horizontal                                                                                                                              | Fundamental                                                                                                                             |
| Peak | <p>Date: 1<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                              |



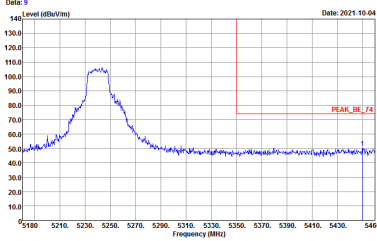
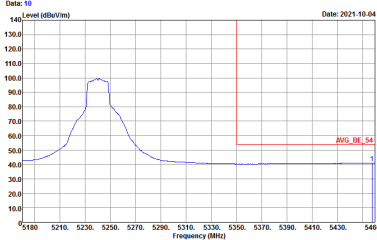


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                      |             |
| 4    | Horizontal                                                                                                                                                                                                    | Fundamental |
| Peak | <p>Graph showing Peak level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The peak is labeled PEAK_BE_74.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | Left blank  |
| Avg. | <p>Graph showing Avg. level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The peak is labeled AVG_BE_54.</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>   | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                 |                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                              |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p>  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                               |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                                             |             |
| 4    | Vertical                                                                                                                                                                                                                                                                             | Fundamental |
| Peak | <p>Graph showing Peak level (dBm) vs Frequency (MHz) for Vertical polarization. The peak is labeled PEAK_BE_74.</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p> | Left blank  |
| Avg. | <p>Graph showing Avg. level (dBm) vs Frequency (MHz) for Vertical polarization. The peak is labeled AVG_BE_54.</p>  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</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                                                                       |                                                                                                 |
| 4    | Horizontal                                                                                      | Fundamental                                                                                     |
| Peak | <p>Data: 1</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p> | <p>Data: 3</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> |
| Avg. | <p>Data: 2</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                                      |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                              |                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH36 5180MHz                                                                                                                       |                                                                                                                                                 |
| 4    | Vertical                                                                                                                                        | Fundamental                                                                                                                                     |
| Peak | <div><p>Date: 4<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | <div><p>Date: 6<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p></div> |
| Avg. | <div><p>Date: 5<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div>  | Left blank                                                                                                                                      |

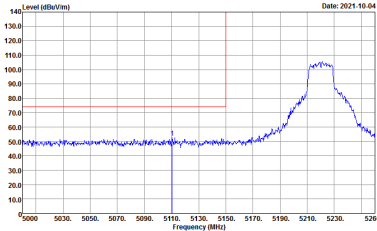
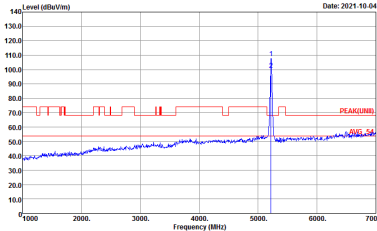
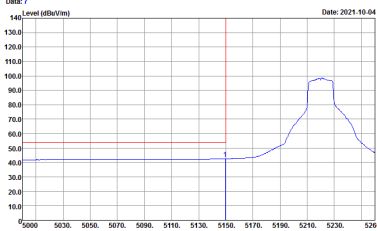


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                      |                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - L                                                                                                           |                                                                                                                                         |
| 4    | Horizontal                                                                                                                              | Fundamental                                                                                                                             |
| Peak | <p>Date: 1<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                              |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                   |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH44 5220MHz - R                                                                                                                                                                                                                                        |             |
| 4    | Horizontal                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <p>Graph 4: Level (dBuV/m) vs Frequency (MHz). The graph shows a peak at approximately 5220 MHz. The peak level is approximately 100 dBuV/m. The graph is labeled 'PEAK_BE_74'.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | Left blank  |
| Avg. | <p>Graph 5: Level (dBuV/m) vs Frequency (MHz). The graph shows a peak at approximately 5220 MHz. The peak level is approximately 100 dBuV/m. The graph is labeled 'AVG_BE_54'.</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>   | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - L                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                                                                                                                                                        |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5110 5130 5150 5170 5190 5210 5230 5260</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5110 5130 5150 5170 5190 5210 5230 5260</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                         |



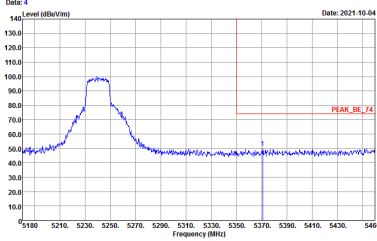
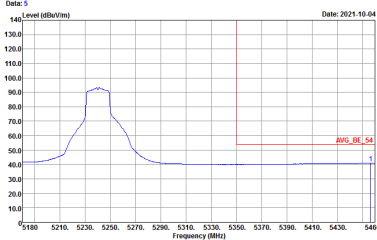


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                               |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH44 5220MHz - R                                                                                                                    |             |
| 4    | Vertical                                                                                                                                         | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |

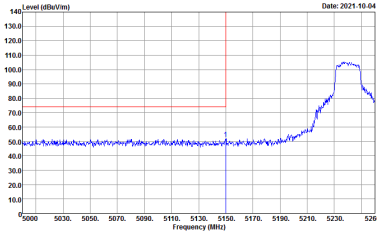
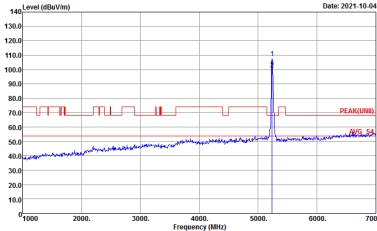
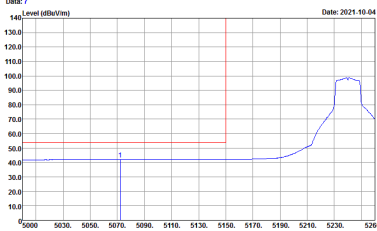


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                      |                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                           |                                                                                                                                         |
| 4    | Horizontal                                                                                                                              | Fundamental                                                                                                                             |
| Peak | <p>Date: 1<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                              |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                  |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                                                       |             |
| 4    | Horizontal                                                                                                                                                          | Fundamental |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>   | Left blank  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank  |



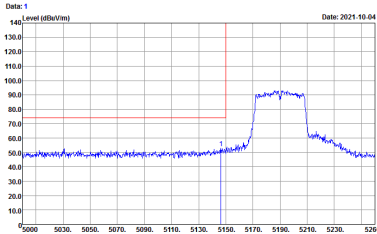
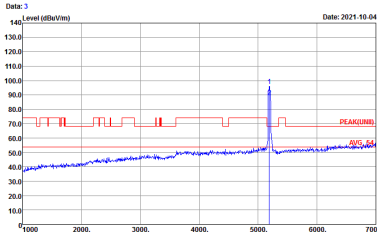
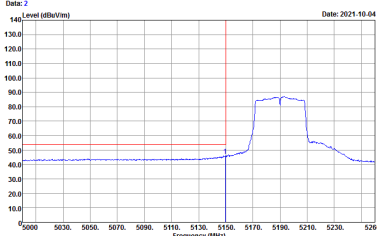
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5110 5130 5150 5170 5190 5210 5230 5260</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5110 5130 5150 5170 5190 5210 5230 5260</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                               |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                         |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                              |             |
| 4    | Vertical                                                                                                                                   | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBu/m)</p><p>PEAK_BE_74</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBu/m)</p><p>AVG_BE_54</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div>  | Left blank  |



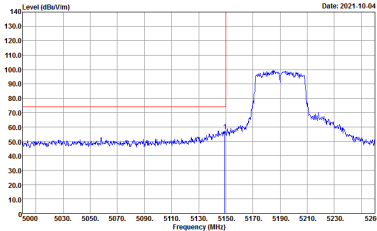
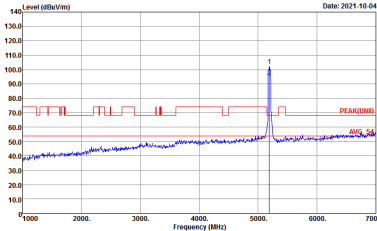
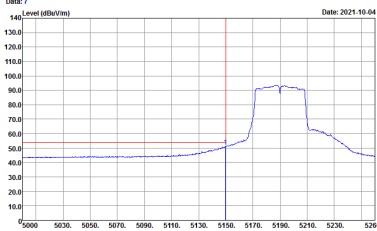
**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                  |                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH38 5190MHz - L                                                                                                                                       |                                                                                                                                                                     |
| 4    | Horizontal                                                                                                                                                          | Fundamental                                                                                                                                                         |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                                                                                                          |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                   |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH38 5190MHz - R                                                                                                                                                                                                                                                                                                                                        |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <p>Graph 4: Peak level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The graph shows a sharp drop in signal level around 5200 MHz, followed by a relatively flat line. A red vertical line marks the peak level at approximately 5380 MHz, labeled 'PEAK_BE_74'.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>     | Left blank  |
| Avg. | <p>Graph 5: Average level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The graph shows a sharp drop in signal level around 5200 MHz, followed by a relatively flat line. A red vertical line marks the average level at approximately 5380 MHz, labeled 'AVG_BE_54'.</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p> | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH38 5190MHz - L                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                                                                                                                                                        |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5110 5130 5150 5170 5190 5210 5230 5260</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5110 5130 5150 5170 5190 5210 5230 5260</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                         |





| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                               |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH38 5190MHz - R                                                                                                                    |             |
| 4    | Vertical                                                                                                                                         | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |

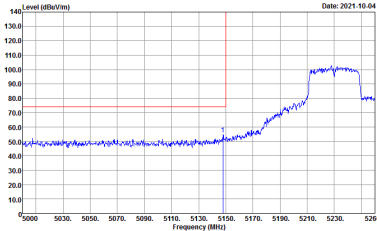
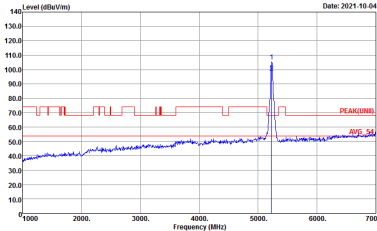
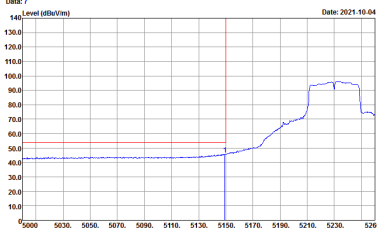


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                 |                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - L                                                                                      |                                                                                                                    |
| 4    | Horizontal                                                                                                         | Fundamental                                                                                                        |
| Peak | <p>Date: 1<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                         |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH46 5230MHz - R                                                                                                                                                                                                                                                |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                   | Fundamental |
| Peak | <p>Graph 4: Level (dBuV/m) vs Frequency (MHz). The graph shows a signal profile with a peak at 5230 MHz. The peak level is approximately 100 dBuV/m. The graph is labeled 'PEAK_BE_74'.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | Left blank  |
| Avg. | <p>Graph 5: Level (dBuV/m) vs Frequency (MHz). The graph shows a signal profile with a peak at 5230 MHz. The peak level is approximately 100 dBuV/m. The graph is labeled 'AVG_BE_54'.</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>   | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - L                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                                                                                                                        |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5190 5230 5260</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5190 5230 5260</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                         |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                              |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH46 5230MHz - R                                                                                                                   |             |
| 4    | Vertical                                                                                                                                        | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | 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                                                  |                                                                                  |
| 4    | Horizontal                                                                       | Fundamental                                                                      |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p> | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                       |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The graph displays a blue line representing the signal level, which drops sharply around 5210 MHz. A red vertical line marks the peak level at approximately 5210 MHz, labeled 'PEAK_BE_74'. The y-axis ranges from 10.0 to 140.0 dBm/100MHz, and the x-axis ranges from 5180 to 5460 MHz.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>             | Left blank  |
| Avg. | <p>Graph showing Average Level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The graph displays a blue line representing the average signal level, which drops sharply around 5210 MHz. A red vertical line marks the average level at approximately 5210 MHz, labeled 'AVG_BE_54'. The y-axis ranges from 10.0 to 140.0 dBm/100MHz, and the x-axis ranges from 5180 to 5460 MHz.</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p> | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                    |                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                       |                                                                                                                                       |
| 4    | Vertical                                                                                                                              | Fundamental                                                                                                                           |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p> | <p>Date: 8<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                            |

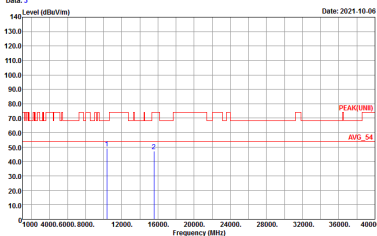
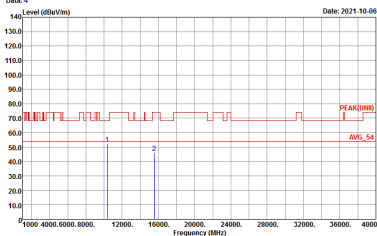




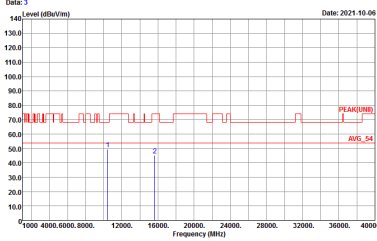
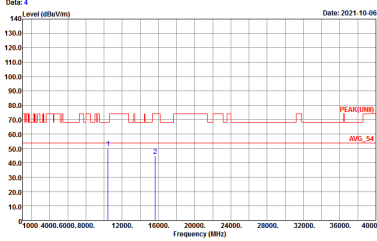
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                  |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                                                                                                                                                                     |             |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                            | Fundamental |
| Peak | <p>Graph 9: Level (dBuV/m) vs Frequency (MHz). The graph shows a signal level starting around 90 dBuV/m at 5180 MHz, dropping sharply to about 60 dBuV/m at 5250 MHz, and then remaining relatively flat around 50 dBuV/m up to 5460 MHz. A red line indicates the peak level at 54.0 dBuV/m.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>    | Left blank  |
| Avg. | <p>Graph 10: Level (dBuV/m) vs Frequency (MHz). The graph shows a signal level starting around 90 dBuV/m at 5180 MHz, dropping sharply to about 60 dBuV/m at 5250 MHz, and then remaining relatively flat around 50 dBuV/m up to 5460 MHz. A red line indicates the average level at 54.0 dBuV/m.</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank  |



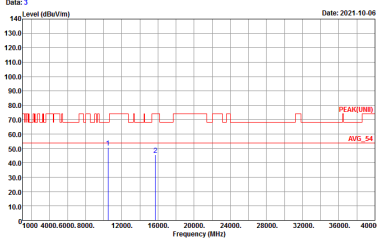
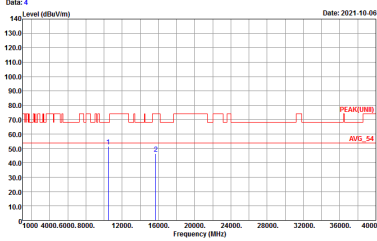
Band 1 - 5150~5250MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                               |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |



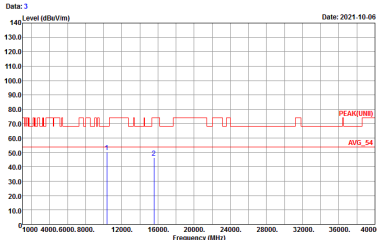
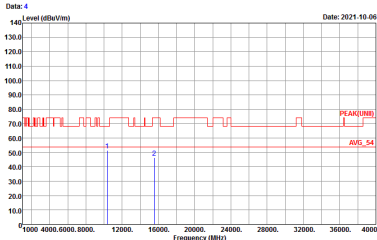
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH44 5220MHz                                                                                                                                               |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |



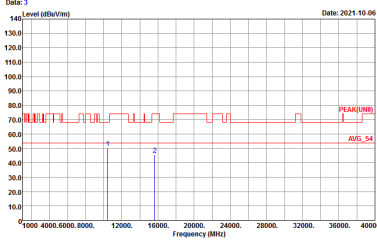
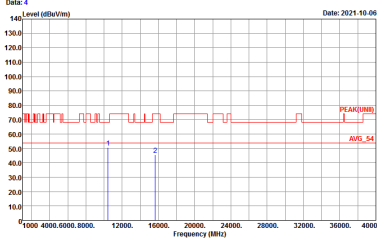
|              |                                                                                                                                                                    |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
| ANT          | 802.11a CH48 5240MHz                                                                                                                                               |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |



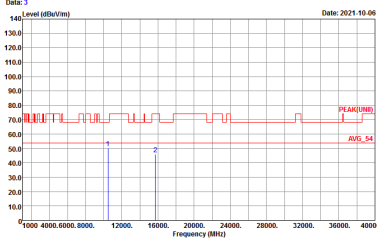
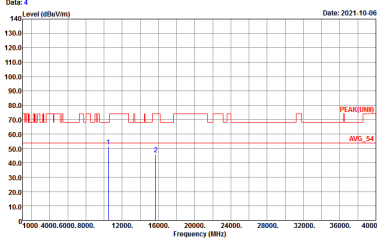
Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH36 5180MHz                                                                                                                                          |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL</p>  |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                  |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH44 5220MHz                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                  |
| 4            | Horizontal                                                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                                                         |
| Peak<br>Avg. | <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
|              |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                  |



|              |                                                                                                                                                                    |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
| ANT          | 802.11n HT20 CH48 5240MHz                                                                                                                                          |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |

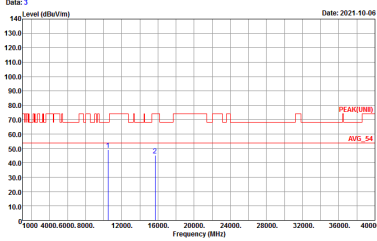
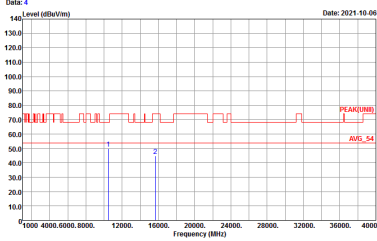


Band 1 5150~5250MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                    |                                                                                                                                    |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH38 5190MHz                                                                                                            |                                                                                                                                    |
| 4            | Horizontal                                                                                                                           | Vertical                                                                                                                           |
| Peak<br>Avg. | <p>Data: 3<br/>Level (dBm/100) Date: 2021-10-06</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> | <p>Data: 4<br/>Level (dBm/100) Date: 2021-10-06</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL</p> |

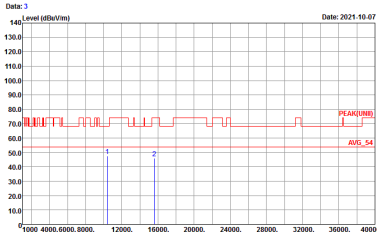
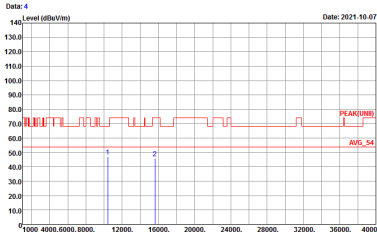




|              |                                                                                                                                                                    |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
| ANT          | 802.11n HT40 CH46 5230MHz                                                                                                                                          |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CHI3-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CHI3-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |



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

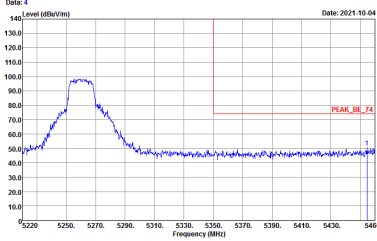
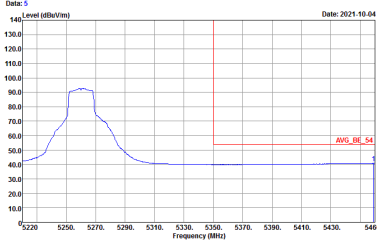
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                       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



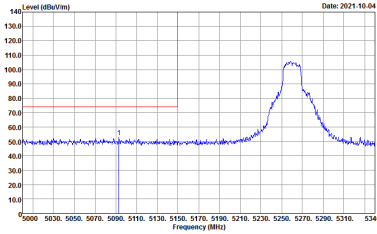
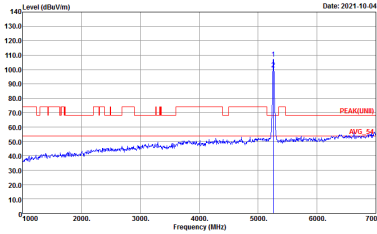
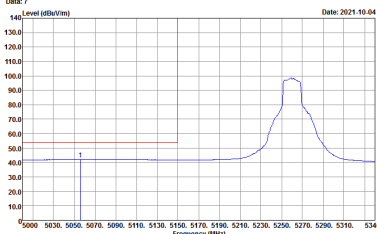
Band 2 - 5250~5350MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                          |                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                    |                                                                                                                       |
| 4    | Horizontal                                                                                                                  | Fundamental                                                                                                           |
| Peak | <p>Graph 1: Horizontal Peak Spectrum</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>   | <p>Graph 3: Fundamental Spectrum</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Graph 2: Horizontal Average Spectrum</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p> | Left blank                                                                                                            |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                  |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                            |             |
| 4    | Horizontal                                                                                                                                                          | Fundamental |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>   | Left blank  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                      |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                                                                                                                          |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                           |

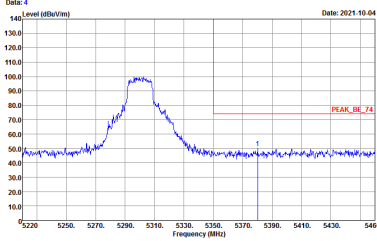
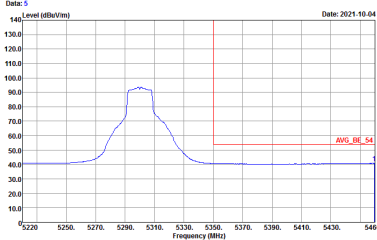


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                    |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                                                                                                              |             |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)<br/>140.0<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p><p>5220 5250 5270 5290 5310 5330 5350 5370 5390 5410 5430 5460</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)<br/>140.0<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p><p>5220 5250 5270 5290 5310 5330 5350 5370 5390 5410 5430 5460</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



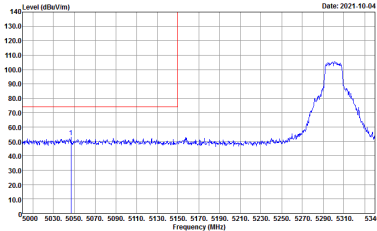
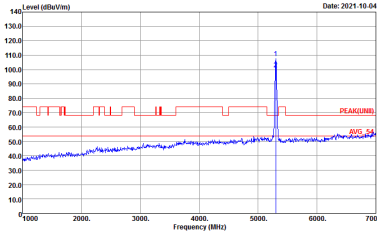
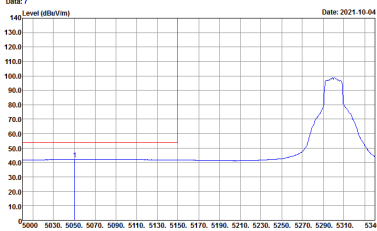
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                 |                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                           |                                                                                                                    |
| 4    | Horizontal                                                                                                         | Fundamental                                                                                                        |
| Peak | <p>Date: 1<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                         |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                  |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                            |             |
| 4    | Horizontal                                                                                                                                                          | Fundamental |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>   | Left blank  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank  |





| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5210 5250 5280 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5210 5250 5280 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                               |

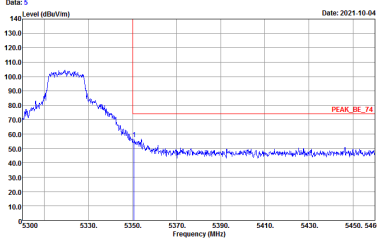
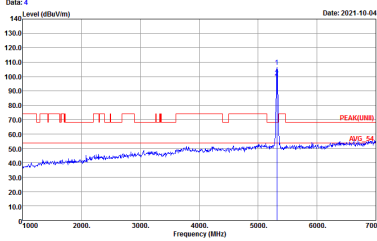
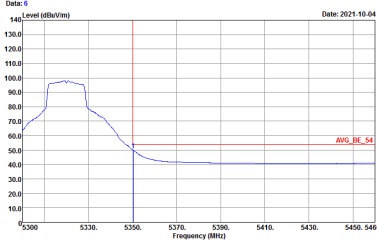


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                              |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                        |             |
| 4    | Vertical                                                                                                                                        | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL</p></div> | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                     |
| 4    | Horizontal                                                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                                                         |
| Peak | <p>Graph 2: Level (dBuV/m) vs Frequency (MHz). Date: 2021-10-04. The graph shows a peak at 5320 MHz. The peak level is approximately 100 dBuV/m. The peak is labeled PEAK_BE_74.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Graph 1: Level (dBuV/m) vs Frequency (MHz). Date: 2021-10-04. The graph shows a peak at 5320 MHz. The peak level is approximately 100 dBuV/m. The peak is labeled PEAKUNIT.</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Graph 3: Level (dBuV/m) vs Frequency (MHz). Date: 2021-10-04. The graph shows a peak at 5320 MHz. The peak level is approximately 100 dBuV/m. The peak is labeled AVG_BE_54.</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>   | Left blank                                                                                                                                                                                                                                                          |



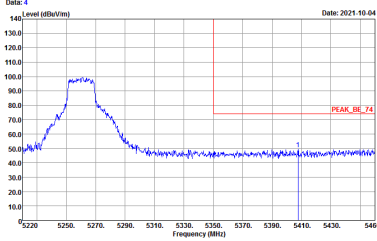
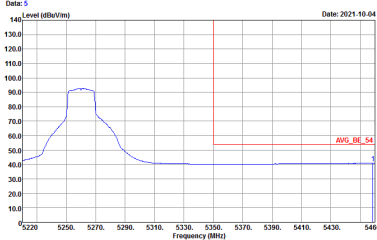
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                              |                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                          | Fundamental                                                                                                                                                       |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p>  | 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                                                                   |                                                                                                 |
| 4    | Horizontal                                                                                      | Fundamental                                                                                     |
| Peak | <p>Data: 1</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p> | <p>Data: 3</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> |
| Avg. | <p>Data: 2</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                                      |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH52 5260MHz - R                                                                                                                                                 |             |
| 4    | Horizontal                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p></div> | Left blank  |



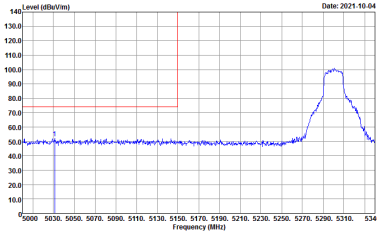
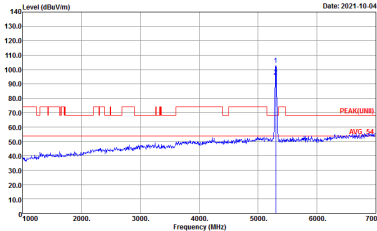
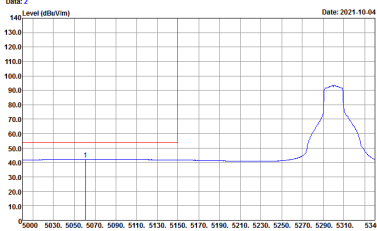
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH52 5260MHz - L                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                       |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                                                           |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5210 5230 5250 5270 5290 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p> | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5210 5230 5250 5270 5290 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                                                                                                                                                                                                            |



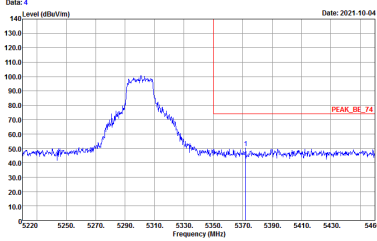
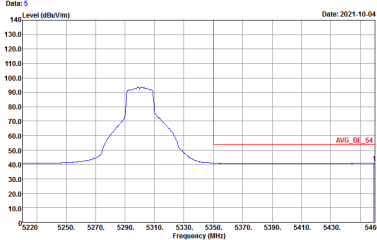
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                         |             |
|------|----------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH52 5260MHz - R                                                                                              |             |
| 4    | Vertical                                                                                                                   | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



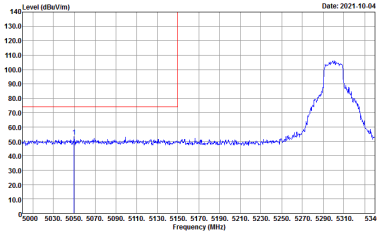
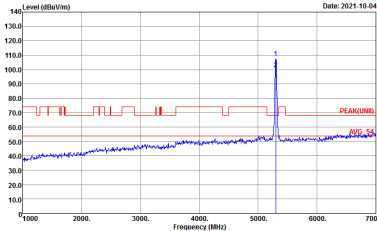
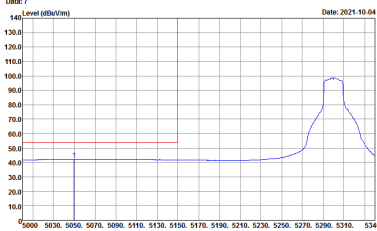


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                    |                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - L                                                                                                                                                                         |                                                                                                                                                                                                       |
| 4    | Horizontal                                                                                                                                                                                            | Fundamental                                                                                                                                                                                           |
| Peak | <p>Date: 1<br/>Level (dBuV/m)</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Date: 3<br/>Level (dBuV/m)</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)</p>  <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p> | Left blank                                                                                                                                                                                            |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                  |            |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ANT  | 802.11n HT20 CH60 5300MHz - R                                                                                                                                       |            |
| 4    | Horizontal                                                                                                                                                          | Vertical   |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>   | Left blank |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank |

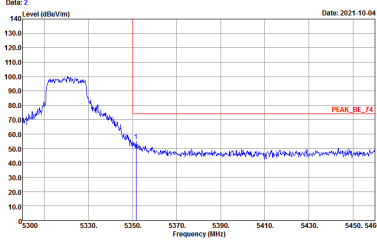
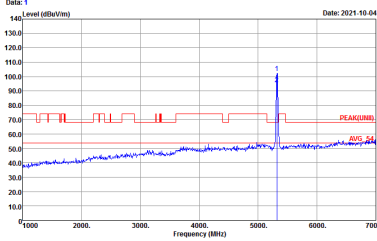
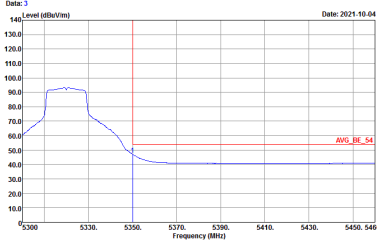


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - L                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5210 5240 5270 5300 5340</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5210 5240 5270 5300 5340</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                               |

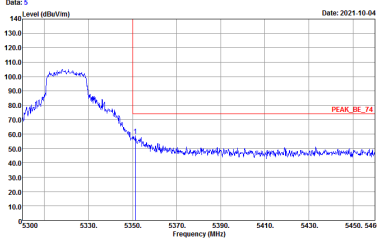
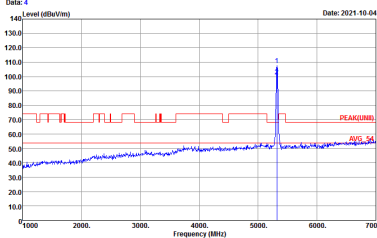
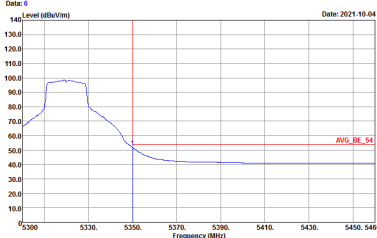


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                              |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH60 5300MHz - R                                                                                                                   |             |
| 4    | Vertical                                                                                                                                        | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)<br/>Date: 2021.10.04</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                  |                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH64 5320MHz                                                                                                                                           |                                                                                                                                                                     |
| 4    | Horizontal                                                                                                                                                          | Fundamental                                                                                                                                                         |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                                                          |



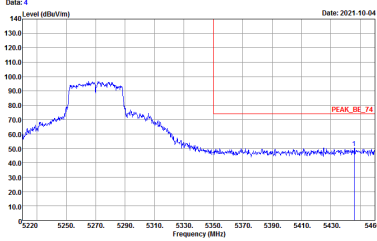
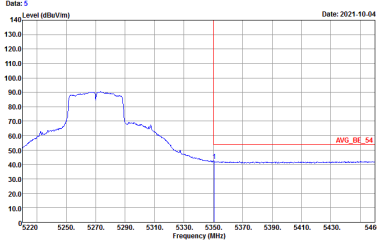
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH64 5320MHz                                                                                                                                         |                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                          | Fundamental                                                                                                                                                       |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                                                        |



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

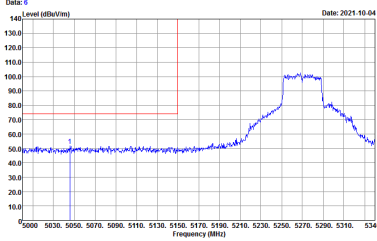
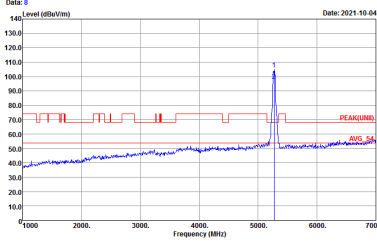
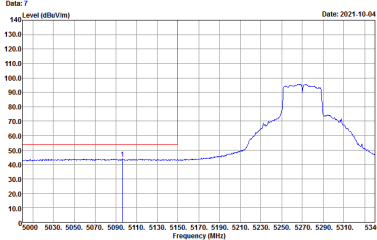
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                              |                                                                                                 |
|------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH54 5270MHz - L                                                                   |                                                                                                 |
| 4    | Horizontal                                                                                      | Fundamental                                                                                     |
| Peak | <p>Data: 1</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p> | <p>Data: 3</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> |
| Avg. | <p>Data: 2</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                                      |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH54 5270MHz - R                                                                                                                                                 |             |
| 4    | Horizontal                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p></div> | Left blank  |





| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH54 5270MHz - L                                                                                                                                     |                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                          | Vertical                                                                                                                                                          |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|      | <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                                                        |

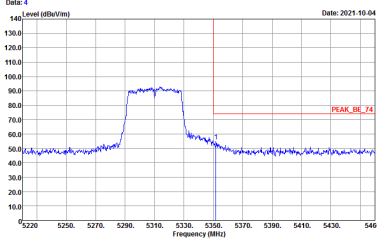
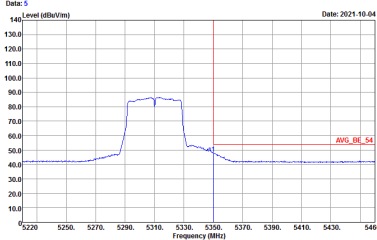


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                         |            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ANT  | 802.11n HT40 CH54 5270MHz - R                                                                                                              |            |
| 4    | Vertical                                                                                                                                   | Vertical   |
| Peak | <div><p>Date: 9<br/>Level (dBu/m)</p><p>PEAK_BE_74</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank |
| Avg. | <div><p>Date: 10<br/>Level (dBu/m)</p><p>AVG_BE_54</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div>  | Left blank |

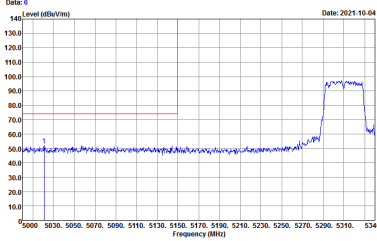
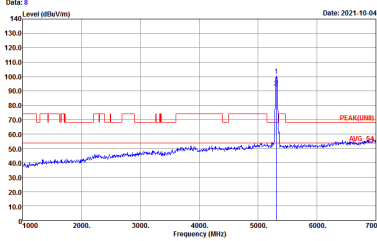
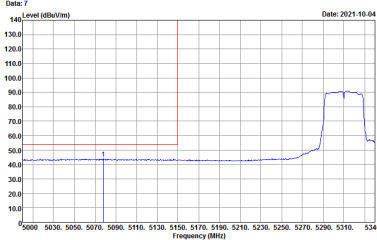


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                         |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH62 5310MHz - L                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                         |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                                                             |
| Peak | <p>Date: 1<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>5000 5030 5060 5090 5110 5130 5150 5170 5190 5210 5230 5250 5270 5290 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>5000 5030 5060 5090 5110 5130 5150 5170 5190 5210 5230 5250 5270 5290 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                                                                                                                                                                                                              |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH62 5310MHz - R                                                                                                                                                 |             |
| 4    | Horizontal                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p></div> | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH62 5310MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5070 5090 5110 5130 5150 5170 5190 5210 5230 5250 5270 5290 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5070 5090 5110 5130 5150 5170 5190 5210 5230 5250 5270 5290 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                               |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                         |             |
|------|----------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH62 5310MHz - R                                                                                              |             |
| 4    | Vertical                                                                                                                   | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



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

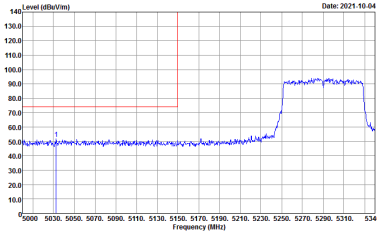
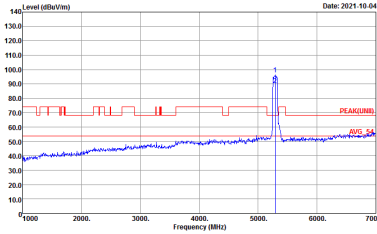
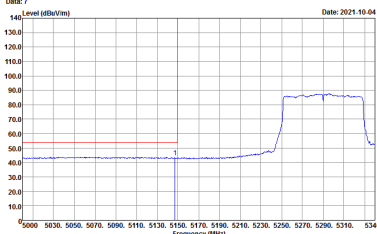
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                              |                                                                                                 |
|------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L                                                                 |                                                                                                 |
| 4    | Horizontal                                                                                      | Fundamental                                                                                     |
| Peak | <p>Data: 1</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p> | <p>Data: 3</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> |
| Avg. | <p>Data: 2</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                                      |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                      |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                         |             |
| 4    | Horizontal                                                                                                                                              | Fundamental |
| Peak | <div><p>Graph 4: Peak Level (dBm/100MHz) vs Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL</p></div>   | Left blank  |
| Avg. | <div><p>Graph 5: Average Level (dBm/100MHz) vs Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL</p></div> | Left blank  |





| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5210 5230 5250 5270 5290 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 8<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5000 5030 5060 5090 5120 5150 5180 5210 5230 5250 5270 5290 5310 5340</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                               |



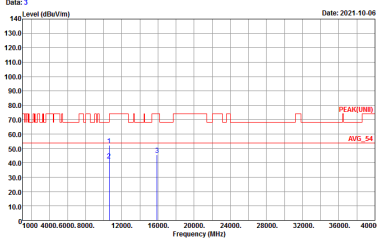
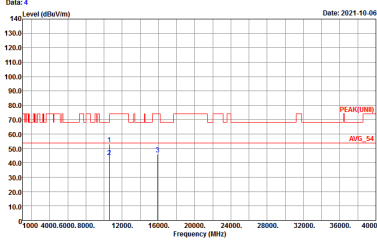
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                               |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                  |             |
| 4    | Vertical                                                                                                                                         | Fundamental |
| Peak | <div><p>Date: 9<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |
| Avg. | <div><p>Date: 10<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



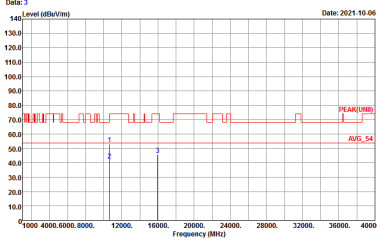
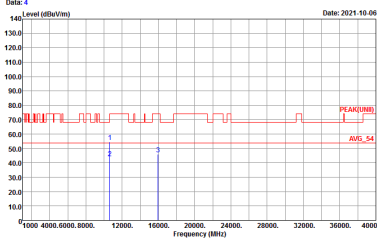
Band 2 - 5250~5350MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                |                                                                                |
|--------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| ANT          | 802.11a CH52 5260MHz                                                             |                                                                                |
| 4            | Horizontal                                                                       | Vertical                                                                       |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL</p> |
|              |                                                                                  |                                                                                |



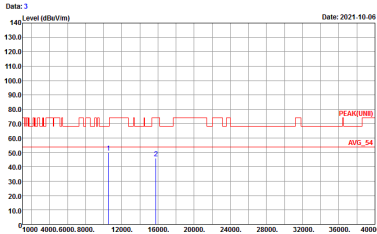
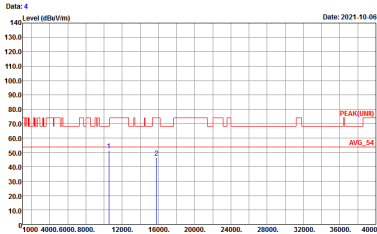
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH60 5300MHz                                                                                                                                               |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |



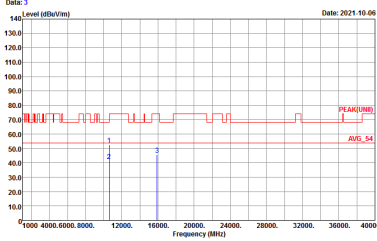
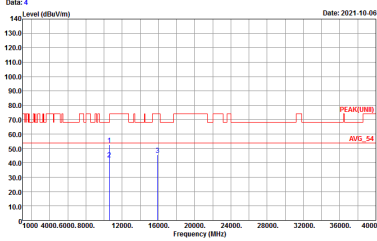
|              |                                                                                                                                                                    |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
| ANT          | 802.11a CH64 5320MHz                                                                                                                                               |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |



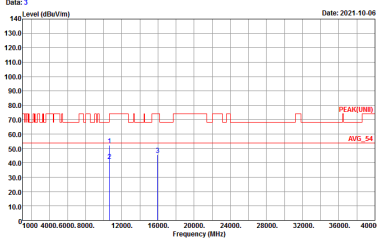
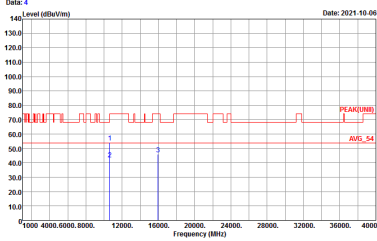
Band 2 5250~5350MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH52 5260MHz                                                                                                                                          |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL</p>  |



|              |                                                                                                                                                                    |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
| ANT          | 802.11n HT20 CH60 5300MHz                                                                                                                                          |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |

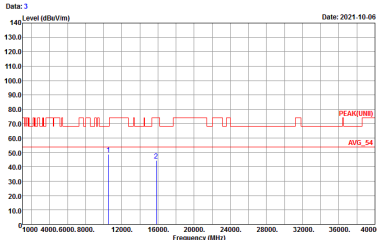
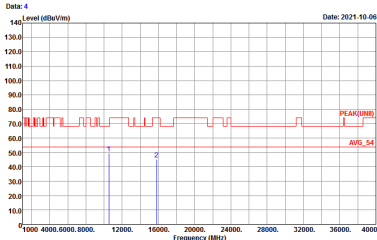


| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH64 5320MHz                                                                                                                                          |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |





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

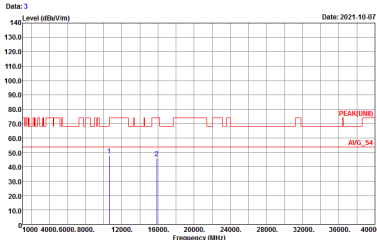
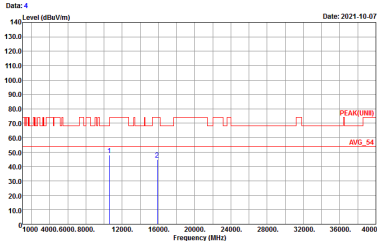
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                       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



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                |                                                                                |
|--------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH62 5310MHz                                                        |                                                                                |
| 4            | Horizontal                                                                       | Vertical                                                                       |
| Peak<br>Avg. | <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Site : 03CHI3-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
|              |                                                                                  |                                                                                |

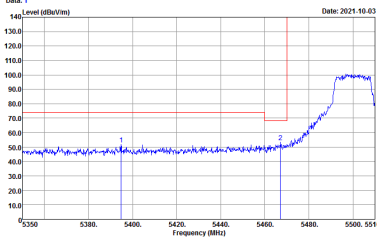
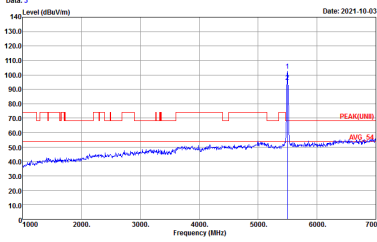
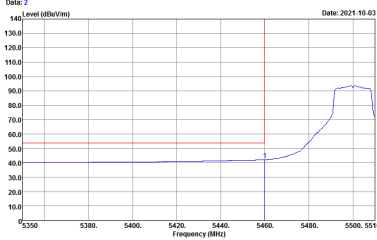


Band 2 5250~5350MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                                                                                               |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH58 5290MHz                                                                                                                                        |                                                                                                                                                                                                                                               |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                                                                                                      |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL<br/>Distractor : Peak<br/>Project : 190730<br/>Mode : 18<br/>Setting : 13.5</p>  |



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

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                        |                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                     |                                                                                                                                                                     |
| 4    | Horizontal                                                                                                                                                                | Fundamental                                                                                                                                                         |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                                                          |

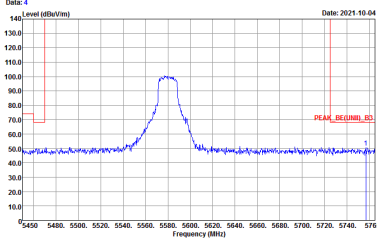


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                            |                                                                                                         |
|------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                         |                                                                                                         |
| 4    | Vertical                                                                                                      | Fundamental                                                                                             |
| Peak | <div><p>Data: 4</p><p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div> | <div><p>Data: 6</p><p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p></div> |
| Avg. | <div><p>Data: 5</p><p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div>  | Left blank                                                                                              |

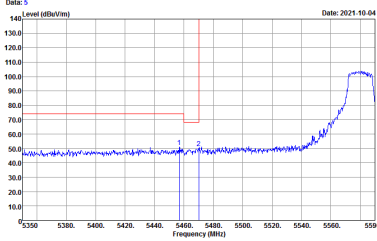
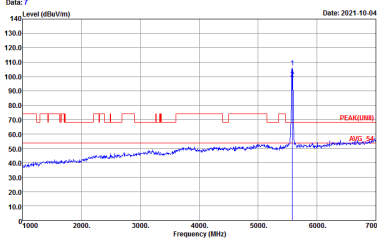
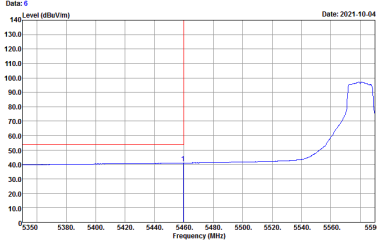


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                       |                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                |                                                                                                                    |
| 4    | Horizontal                                                                                                               | Fundamental                                                                                                        |
| Peak | <p>Date: 1<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                         |



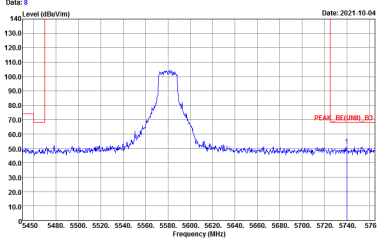
|      |                                                                                                                                                                                                                                                                                                                      |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                   |             |
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                                                                                                            |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The peak is observed around 5580 MHz.</p><p>Site : 09CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p></div> | Left blank  |



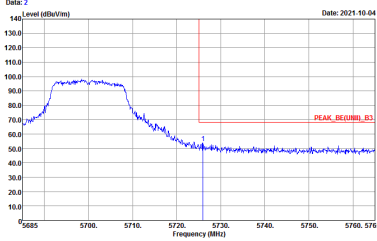
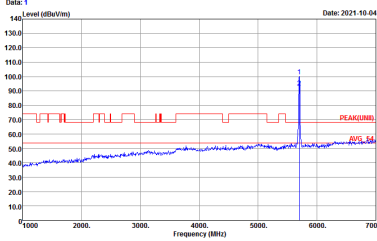
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                               |                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                                | Fundamental                                                                                                                                                       |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                                                        |



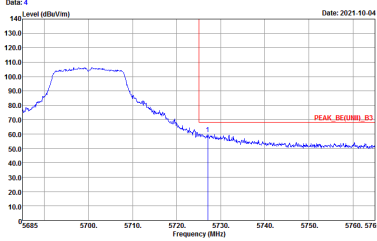
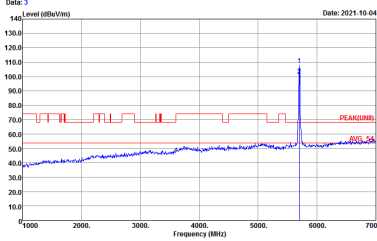


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                               |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                                                                                                        |             |
| 4    | Vertical                                                                                                                                                                                                                                                                                                         | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Vertical polarization. The peak is observed around 5580 MHz.</p><p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



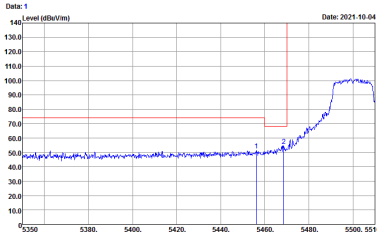
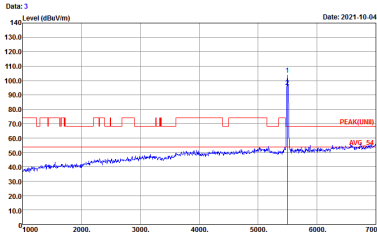
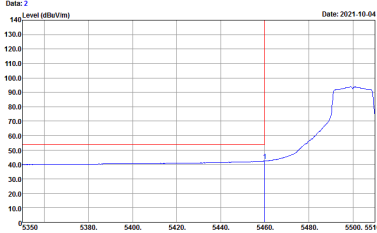
|      |                                                                                                                                                                          |                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                       |                                                                                                                                                                     |
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                    |                                                                                                                                                                     |
| 4    | Horizontal                                                                                                                                                               | Fundamental                                                                                                                                                         |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  |



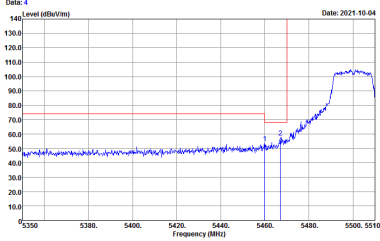
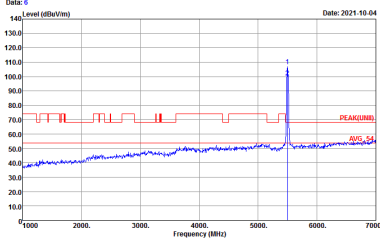
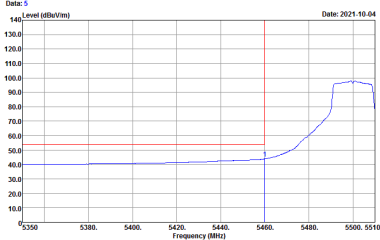
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                     |                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                  |                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                               | Fundamental                                                                                                                                                       |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</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                                                                                                                                                               |                                                                                                                                                                                    |
| 4    | Horizontal                                                                                                                                                                               | Fundamental                                                                                                                                                                        |
| Peak | <p>Data: 1</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL</p>  | <p>Data: 3</p>  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> |
| Avg. | <p>Data: 2</p>  <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL</p> | Left blank                                                                                                                                                                         |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH100 5500MHz                                                                                                                                              |                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                                | Fundamental                                                                                                                                                       |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                                                        |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - L                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                         |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                                                                                                             |
| Peak | <p>Date: 1<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580 5590</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580 5590</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                                                                                                                                                                                                              |



|      |                                                                                                                                                                                                                                     |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                  |             |
| ANT  | 802.11n HT20 CH116 5580MHz - R                                                                                                                                                                                                      |             |
| 4    | Horizontal                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The peak is observed around 5580 MHz.</p><p>Site : 09CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p></div> | Left blank  |



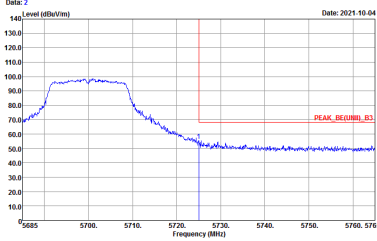
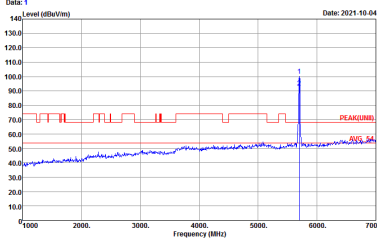
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - L                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                                       |
| Peak | <p>Date: 5<br/>Level (dBuV/m)<br/>140.0<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p> <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p> | <p>Date: 7<br/>Level (dBuV/m)<br/>140.0<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p> <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 6<br/>Level (dBuV/m)<br/>140.0<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p> <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                                                                                                                                                                                                        |



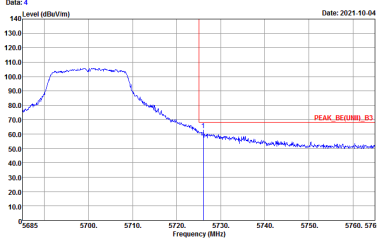
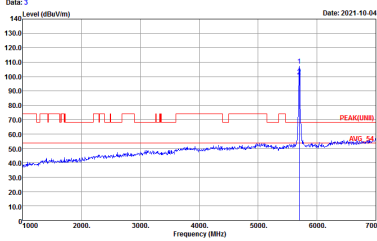


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                              |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH116 5580MHz - R                                                                                                                                                                                                  |             |
| 4    | Vertical                                                                                                                                                                                                                        | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Vertical polarization. The peak is observed around 5580 MHz.</p><p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                       |                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH140 5700MHz                                                                                                                                               |                                                                                                                                                                     |
| 4    | Horizontal                                                                                                                                                               | Fundamental                                                                                                                                                         |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  |



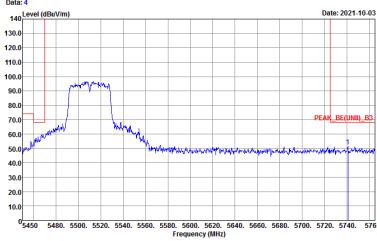
| WIFI  | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                               |                                                                                                                                                                             |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT   | 802.11n HT20 CH140 5700MHz                                                                                                                                                       |                                                                                                                                                                             |
| 4     | Vertical                                                                                                                                                                         | Fundamental                                                                                                                                                                 |
| Peak. | <div><p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div> | <div><p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p></div> |

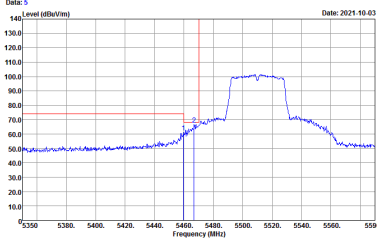
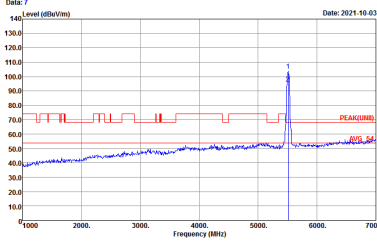
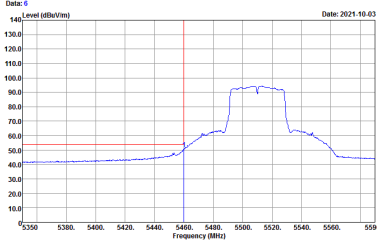


Band 3 5470~5725MHz  
WIFI 802.11n HT40 (Band Edge @ 3m)

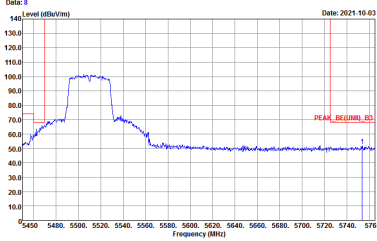
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                    |                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH102 5510MHz - L                                                                        |                                                                                                 |
| 4    | Horizontal                                                                                            | Fundamental                                                                                     |
| Peak | <p>Data: 1</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL</p> | <p>Data: 3</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p> |
| Avg. | <p>Data: 2</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                                      |



|      |                                                                                                                                                                                                                                                                                                                      |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                   |             |
| ANT  | 802.11n HT40 CH102 5510MHz - R                                                                                                                                                                                                                                                                                       |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The peak is observed around 5510 MHz.</p><p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p></div> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH102 5510MHz - L                                                                                                                                          |                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                                | Fundamental                                                                                                                                                       |
| Peak |  <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  |  <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. |  <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                        |



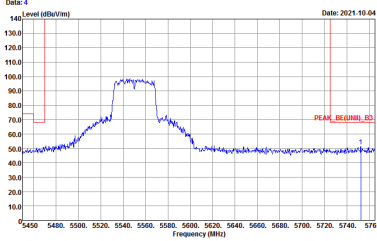
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                               |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH102 5510MHz - R                                                                                                                                                                                                                                                                                   |             |
| 4    | Vertical                                                                                                                                                                                                                                                                                                         | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Vertical polarization. The peak is observed around 5510 MHz.</p><p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH110 5550MHz - L                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                           |
| 4    | Horizontal                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                               |
| Peak | <p>Date: 1<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                                                                                                                                                |





| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                        |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH110 5550MHz - R                                                                                                                                                                            |             |
| 4    | Horizontal                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 09CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p><p>PEAK_BE(UNIT)_B3</p></div> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH110 5550MHz - L                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                                       |
| Peak | <p>Date: 5<br/>Level (dBuV/m)<br/>140.0<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p> <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p> | <p>Date: 7<br/>Level (dBuV/m)<br/>140.0<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p> <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 6<br/>Level (dBuV/m)<br/>140.0<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p> <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  | Left blank                                                                                                                                                                                                                                                                                                        |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                     |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH110 5550MHz - R                                                                                                                                                                                         |             |
| 4    | Vertical                                                                                                                                                                                                               | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Vertical polarization. The peak is around 5550 MHz.</p><p>Site : 09CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |

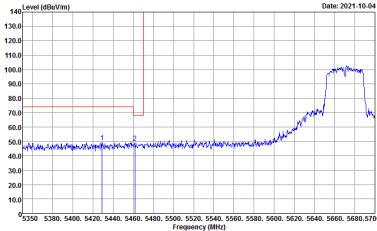
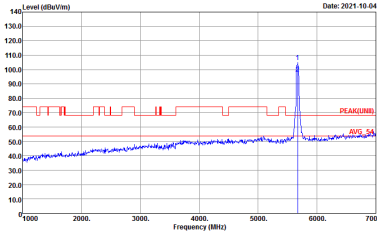
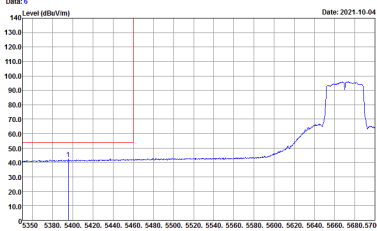


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH134 5670MHz - L                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                           |
| 4    | Horizontal                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                               |
| Peak | <p>Date: 1<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                                                                                                                                                                |



|      |                                                                                                                                                                                                                                                                                                                                                                                                               |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                            |             |
| ANT  | 802.11n HT40 CH134 5670MHz - R                                                                                                                                                                                                                                                                                                                                                                                |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Graph showing Frequency (MHz) vs Level (dBm/100MHz). The graph displays a signal peak around 5670 MHz. The Y-axis ranges from 10.0 to 140.0 dBm/100MHz. The X-axis ranges from 5420 to 5765 MHz. A red vertical line marks the peak at 5670 MHz. The text 'PEAK_BE(UNIT)_B3' is visible on the graph.</p><p>Site : 09CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p></div> | Left blank  |



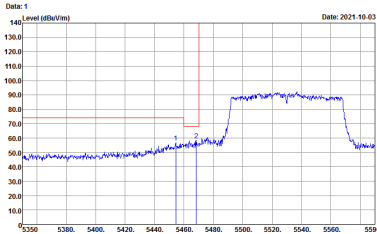
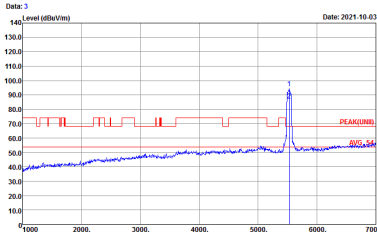
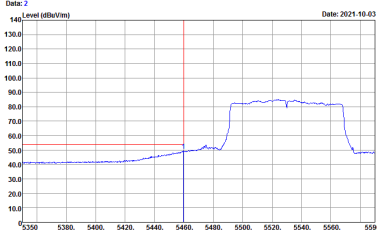
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH134 5670MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Date: 5<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580 5600 5620 5640 5660 5680 5700</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580 5600 5620 5640 5660 5680 5700</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                               |



|      |                                                                                                                                                                                                                                                                 |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                              |             |
| ANT  | 802.11n HT40 CH134 5670MHz - R                                                                                                                                                                                                                                  |             |
| 4    | Vertical                                                                                                                                                                                                                                                        | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Vertical polarization. The graph displays a peak around 5670 MHz, labeled PEAK_BE(CH134)_B3.</p><p>Site : 09CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |



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

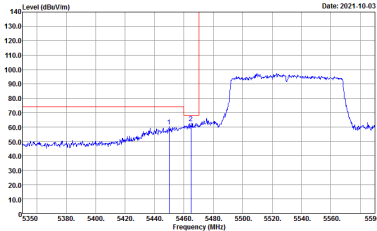
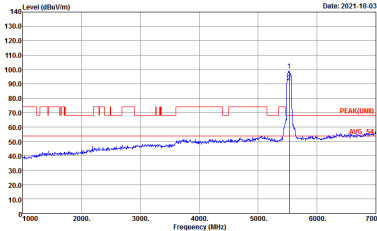
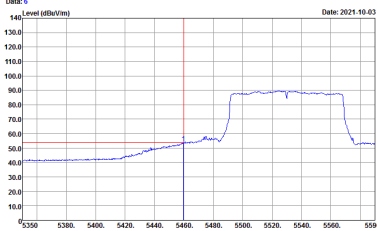
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                        |                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                          |                                                                                                                                                                     |
| 4    | Horizontal                                                                                                                                                                | Fundamental                                                                                                                                                         |
| Peak | <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL</p>   | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p>  |
| Avg. | <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL</p>  | Left blank                                                                                                                                                          |



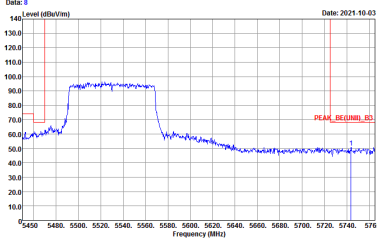


|      |                                                                                                                                                                                                                                                                                                                                                                                                                                |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                             |             |
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                                                                                                                                                                                                                                                                                                                                                               |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The graph displays a signal level around 80 dBm/100MHz, with a peak level indicated by a red line at approximately 130 dBm/100MHz. The x-axis ranges from 5420 to 5765 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100MHz.</p><p>Site : 09CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p></div> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                                                                                                                        |
| Peak | <p>Date: 5<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0</p>  <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                         |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                     |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                                                                                                                                       |             |
| 4    | Vertical                                                                                                                                                                                               | Fundamental |
| Peak | <div><p>Site : 03CH13-HV<br/>Condition : PEAR_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p><p>Frequency (MHz)</p></div> | Left blank  |

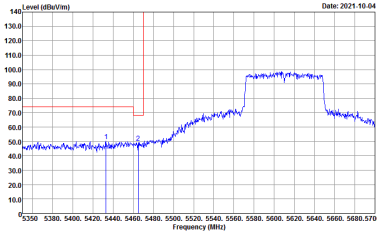
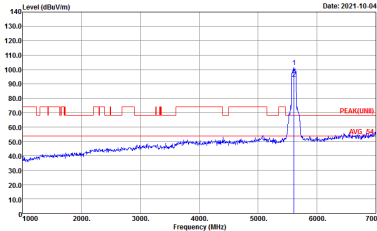
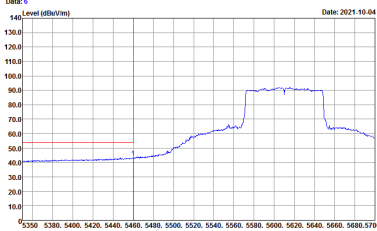


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                       |                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                         |                                                                                                                    |
| 4    | Horizontal                                                                                                               | Fundamental                                                                                                        |
| Peak | <p>Date: 1<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p> | <p>Date: 3<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p> |
| Avg. | <p>Date: 2<br/>Level (dBuV/m)</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p>  | Left blank                                                                                                         |



|      |                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                              |             |
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                                                                                                                                                                                                                                                                                                                                                                |             |
| 4    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Graph showing Peak Level (dBm/100MHz) vs Frequency (MHz) for Horizontal polarization. The graph displays a signal level around 100 dBm/100MHz, with a peak level indicated by a red line at approximately 130 dBm/100MHz. The x-axis ranges from 5420 to 5765 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100MHz.</p><p>Site : 09CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL</p></div> | Left blank  |



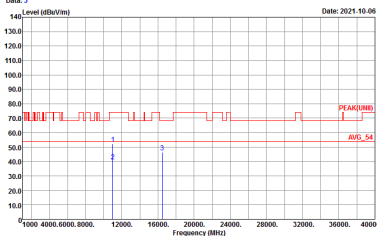
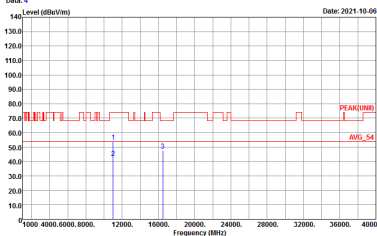
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Date: 5<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580 5600 5620 5640 5660 5680 5700</p> <p>Site : 03CH13-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p>  | <p>Date: 7<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p> |
| Avg. | <p>Date: 6<br/>Level (dBuV/m)<br/>140<br/>130.0<br/>120.0<br/>110.0<br/>100.0<br/>90.0<br/>80.0<br/>70.0<br/>60.0<br/>50.0<br/>40.0<br/>30.0<br/>20.0<br/>10.0<br/>0</p>  <p>Frequency (MHz)<br/>5350 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580 5600 5620 5640 5660 5680 5700</p> <p>Site : 03CH13-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p> | Left blank                                                                                                                                                                                                                                                                                                                                                                                               |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                   |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                                                                                                                                                                                                                                                                                                     |             |
| 4    | Vertical                                                                                                                                                                                                                                                                                                                                                             | Fundamental |
| Peak | <div><p>Graph showing Power Spectral Density (dBm/100kHz) vs Frequency (MHz) for Vertical polarization. The graph displays a signal profile with a peak around 5610 MHz. The Y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the X-axis ranges from 5420 to 5765 MHz.</p><p>Site : 03CH13-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL</p></div> | Left blank  |

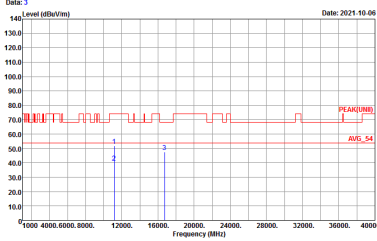
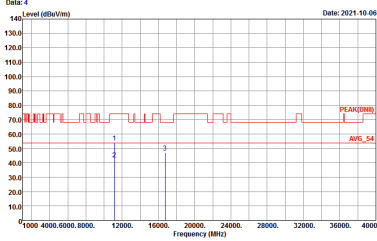


Band 3 - 5470~5725MHz  
WIFI 802.11a (Harmonic @ 3m)

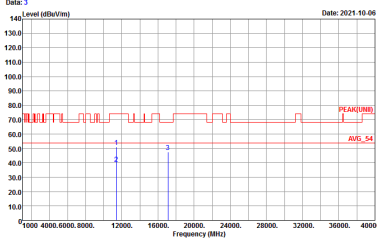
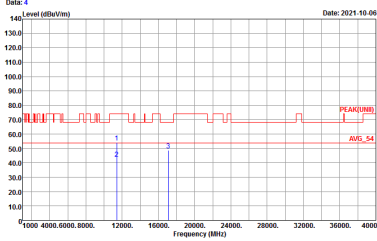
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH100 5500MHz                                                                                                                                              |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |





| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                                                                                                              |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |



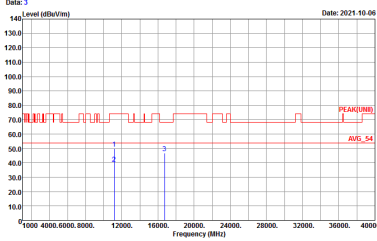
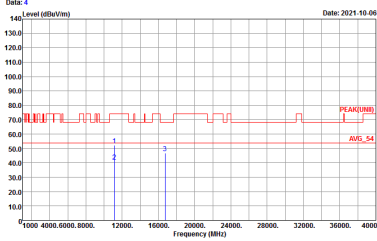
|              |                                                                                                                                                                     |                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                   |                                                                                                                                                                    |
| ANT          | 802.11a CH140 5700MHz                                                                                                                                               |                                                                                                                                                                    |
| 4            | Horizontal                                                                                                                                                          | Vertical                                                                                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEARQ(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEARQ(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |



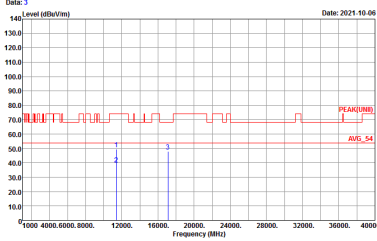
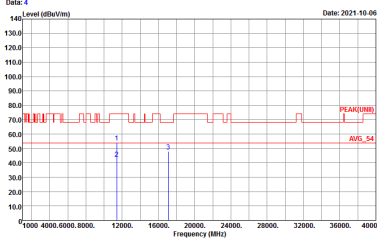
**Band 3 5470~5725MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                       |                                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH100 5500MHz                                                                                                              |                                                                                                                                       |
| 4            | Horizontal                                                                                                                              | Vertical                                                                                                                              |
| Peak<br>Avg. | <p>Data: 3<br/>Level (dBμV/m)<br/>Date: 2021-10-06</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL</p> | <p>Data: 4<br/>Level (dBμV/m)<br/>Date: 2021-10-06</p> <p>Site : 03CH13-HY<br/>Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL</p> |



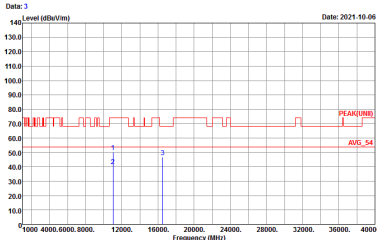
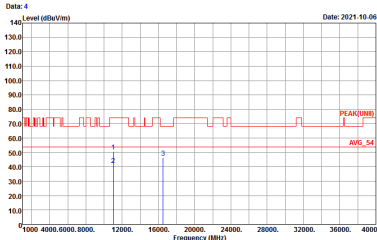
|              |                                                                                                                                                                    |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
| ANT          | 802.11n HT20 CH116 5580MHz                                                                                                                                         |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |



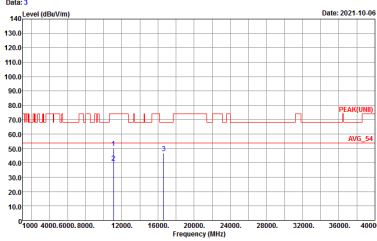
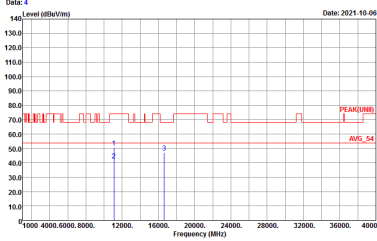
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH140 5700MHz                                                                                                                                         |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CHI3-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CHI3-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |



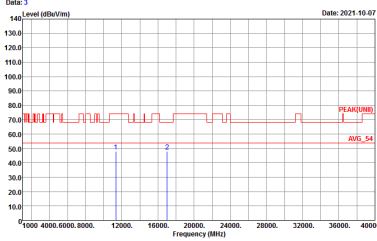
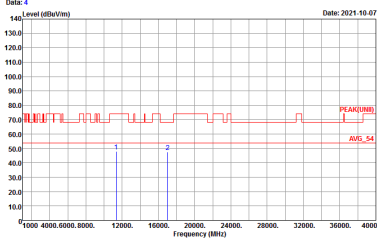
Band 3 5470~5725MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)

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



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH110 5550MHz                                                                                                                                         |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |

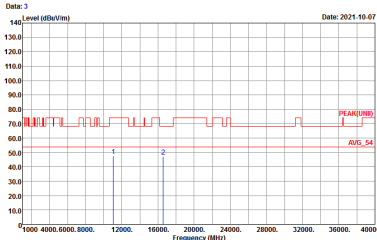
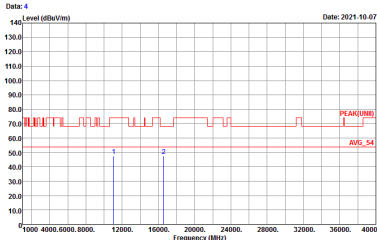


| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH134 5670MHz                                                                                                                                         |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |

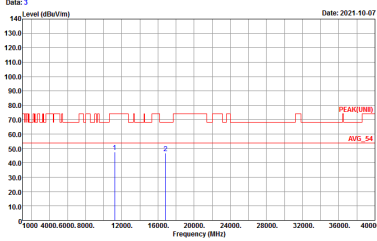
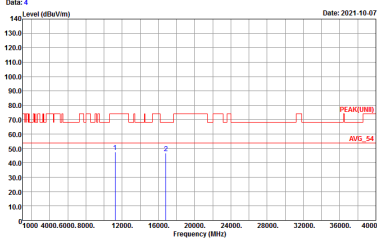




Band 3 5470~5725MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH106 5530MHz                                                                                                                                       |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL</p>  |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH122 5610MHz                                                                                                                                       |                                                                                                                                                                   |
| 4            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 HORIZONTAL</p>  | <p>Site : 03CH13-HY<br/>Condition : PEAR(UNIT) 3m HORN_9120D_1241 VERTICAL</p>  |
|              |                                                                                                                                                                    |                                                                                                                                                                   |



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

| WIFI         | 5GHz WIFI                                                                                               |                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 LF                                                                                       |                                                                                                       |
| 4            | Horizontal                                                                                              | Vertical                                                                                              |
| QP /<br>Peak | <p>Date: 1<br/>Level (dBu/V/m)</p> <p>Site : 03CH13-HY<br/>Condition : QP 3m BIL06_40103 HORIZONTAL</p> | <p>Date: 2<br/>Level (dBu/V/m)</p> <p>Site : 03CH13-HY<br/>Condition : QP 3m BIL06_40103 VERTICAL</p> |
|              |                                                                                                         |                                                                                                       |



## Appendix E. Duty Cycle Plots

| Band                | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---------------------|---------------|-------|----------|-------------|
| 802.11a             | 98.10         | -     | -        | 10Hz        |
| 5GHz 802.11n HT20   | 98.12         | -     | -        | 10Hz        |
| 5GHz 802.11n HT40   | 94.39         | 925.0 | 1.08     | 3kHz        |
| 5GHz 802.11ac VHT80 | 92.79         | 463.9 | 2.16     | 3kHz        |

