



# FCC RADIO TEST REPORT

FCC ID : TX2-RTL8722DM  
Equipment : 802.11 a/b/g/n Wireless LAN+Bluetooth module  
Brand Name : REALTEK  
Model Name : RTL8722DM  
Applicant : Realtek Semiconductor Corp.  
No. 2, Innovation Road II, Hsinchu Science Park,  
Hsinchu 300, Taiwan  
Manufacturer : Realtek Semiconductor Corp.  
No. 2, Innovation Road II, Hsinchu Science Park,  
Hsinchu 300, Taiwan  
Standard : FCC Part 15 Subpart E §15.407

The product was received on Nov. 13, 2020 and testing was started from Nov. 25, 2020 and completed on Dec. 17, 2020. 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 .....  | 9         |
| 2.5 EUT Operation Test Setup .....                            | 10        |
| 2.6 Measurement Results Explanation Example.....              | 10        |
| <b>3 Test Result .....</b>                                    | <b>11</b> |
| 3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement ..... | 11        |
| 3.2 Maximum Conducted Output Power Measurement .....          | 14        |
| 3.3 Power Spectral Density Measurement .....                  | 15        |
| 3.4 Unwanted Emissions Measurement.....                       | 17        |
| 3.5 AC Conducted Emission Measurement.....                    | 21        |
| 3.6 Automatically Discontinue Transmission .....              | 23        |
| 3.7 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   |
|------------|---------|-------------------------|---------------|
| FR0N0645D  | 01      | Initial issue of report | Mar. 12, 2021 |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause     | Test Items                             | Result (PASS/FAIL) | Remark                                                    |
|---------------|---------------------|----------------------------------------|--------------------|-----------------------------------------------------------|
| 3.1           | 15.403(i)           | 6dB & 26dB Bandwidth                   | Pass               | -                                                         |
| 3.1           | 2.1049              | 99% Occupied Bandwidth                 | Reporting only     | -                                                         |
| 3.2           | 15.407(a)           | Maximum Conducted Output Power         | Pass               | -                                                         |
| 3.3           | 15.407(a)           | Power Spectral Density                 | Pass               | -                                                         |
| 3.4           | 15.407(b)           | Unwanted Emissions                     | Pass               | Under limit<br>1.41 dB at<br>62.010 MHz<br>for Quasi-Peak |
| 3.5           | 15.207              | AC Conducted Emission                  | Pass               | Under limit<br>8.93 dB at<br>0.161 MHz                    |
| 3.6           | 15.407(c)           | Automatically Discontinue Transmission | Pass               | -                                                         |
| 3.7           | 15.203<br>15.407(a) | Antenna Requirement                    | Pass               | -                                                         |

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

**Reviewed by: Wii Chang**

**Report Producer: Lucy Wu**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

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

| Product Specification subjective to this standard |                                                                                                                             |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sample 1                                          | A1-8722DM-4F4MA with Fixture 1 and Printed Antenna                                                                          |
| Sample 2                                          | A1-8722DM-4F4M1 with Fixture 1 and External Antenna                                                                         |
| Sample 3                                          | A1-8722DM-4F4MC with Fixture 2 and External Antenna                                                                         |
| Antenna Type                                      | WLAN: Printed Antenna / External Antenna (Dipole or PIFA)<br>Bluetooth: Printed Antenna / External Antenna (Dipole or PIFA) |

| Printed Antenna information |                 |     |
|-----------------------------|-----------------|-----|
| 5725 MHz ~ 5850 MHz         | Peak Gain (dBi) | 2.1 |

| Dipole Antenna information |                 |     |
|----------------------------|-----------------|-----|
| 5725 MHz ~ 5850 MHz        | Peak Gain (dBi) | 5.0 |

| PIFA Antenna information |                 |     |
|--------------------------|-----------------|-----|
| 5725 MHz ~ 5850 MHz      | Peak Gain (dBi) | 5.0 |

**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.,<br>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>TH05-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>03CH12-HY (TAF Code: 3786)                                                                                            |
| Remark             | The Radiated Spurious Emission 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 TW0007

### 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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.

## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in two antenna polarization (Horizontal and Vertical). The worst cases (Ant. Horizontal for Sample 1, Sample 2 with Dipole Antenna, Sample 3 with Dipole Antenna, Sample 3 with PIFA Antenna; Ant. Vertical for Sample 2 with PIFA Antenna) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

| Frequency Band                       | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|--------------------------------------|---------|----------------|---------|----------------|
| 5725-5850 MHz<br>Band 4<br>(U-NII-3) | 149     | 5745           | 157     | 5785           |
|                                      | 151*    | 5755           | 159*    | 5795           |
|                                      | 153     | 5765           | 161     | 5805           |
|                                      | -       | -              | 165     | 5825           |

**Note:** The above Frequency and Channel in "\*" were 802.11n HT40.

## 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      |

| Test Cases                                                                                            |                                                                                                                  |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>AC<br/>Conducted<br/>Emission</b>                                                                  | Mode 1 : Bluetooth Link + WLAN (5GHz) Link + USB Cable (Charging from Notebook) for Sample 1                     |
|                                                                                                       | Mode 2 : Bluetooth Link + WLAN (5GHz) Link + USB Cable (Charging from Notebook) for Sample 2 with Dipole Antenna |
|                                                                                                       | Mode 3 : Bluetooth Link + WLAN (5GHz) Link + USB Cable (Charging from Notebook) for Sample 2 with PIFA Antenna   |
|                                                                                                       | Mode 4 : Bluetooth Link + WLAN (5GHz) Link + USB Cable (Charging from Notebook) for Sample 3 with PIFA Antenna   |
| <b>Remark:</b> The worst case of conducted emission is mode 3; only the test data of it was reported. |                                                                                                                  |

| Ch. # |        | Band IV : 5725-5850 MHz |              |              |
|-------|--------|-------------------------|--------------|--------------|
|       |        | 802.11a                 | 802.11n HT20 | 802.11n HT40 |
| L     | Low    | 149                     | 149          | 151          |
| M     | Middle | 157                     | 157          | -            |
| H     | High   | 165                     | 165          | 159          |

**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.   | WLAN AP      | ASUS       | RT-AC66U      | MSQ-RTAC66U | N/A             | Unshielded, 1.8 m                                          |
| 2.   | iPod         | Apple      | A1285         | FCC DoC     | Shielded, 1.0 m | N/A                                                        |
| 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.   | Mobile Phone | SAMSUNG    | SM-A730F/DS   | A3LSMA730F  | N/A             | N/A                                                        |
| 5.   | USB Cable    | N/A        | N/A           | N/A         | N/A             | N/A                                                        |
| 6.   | Fixture 1    | N/A        | N/A           | N/A         | N/A             | N/A                                                        |
| 7.   | Fixture 2    | N/A        | N/A           | N/A         | N/A             | N/A                                                        |



## 2.5 EUT Operation Test Setup

The RF test items, utility “AmebaD\_mptool\_2V2” 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 10dB attenuator.

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

### 3 Test Result

#### 3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

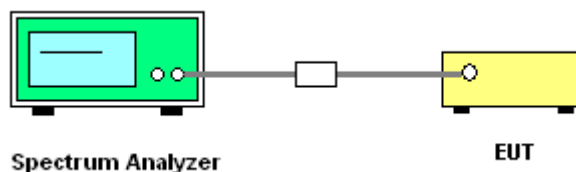
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

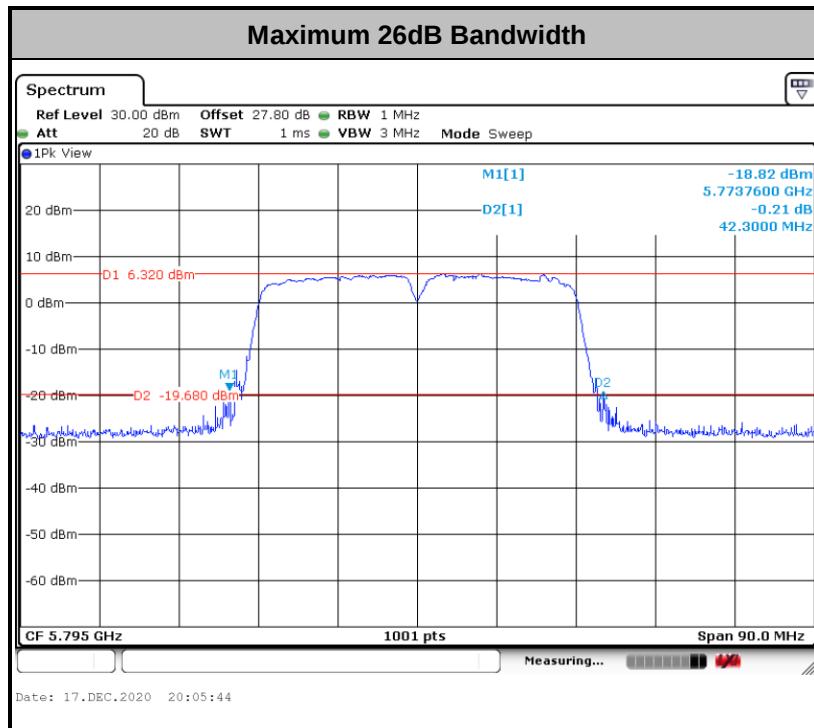
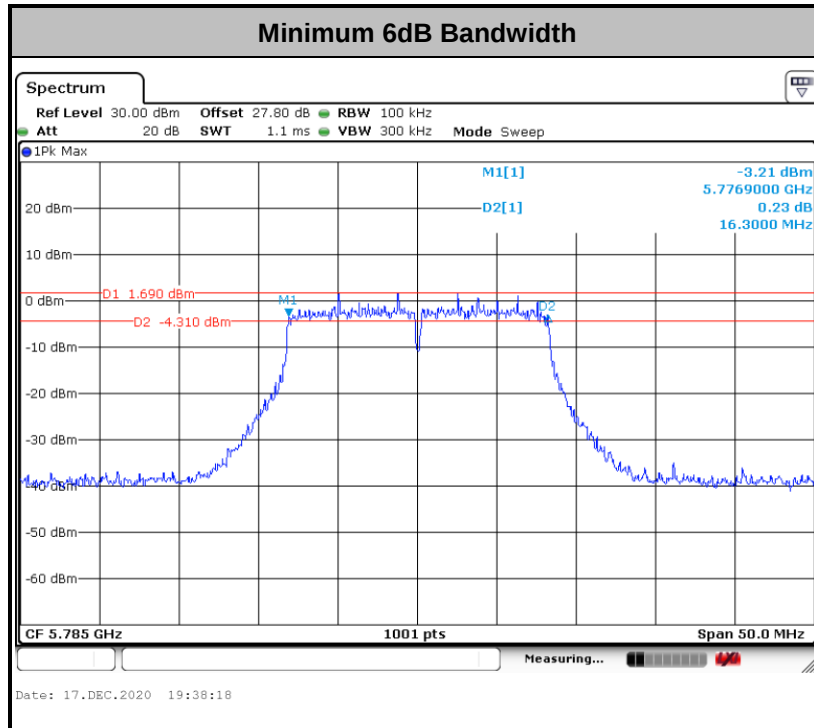
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

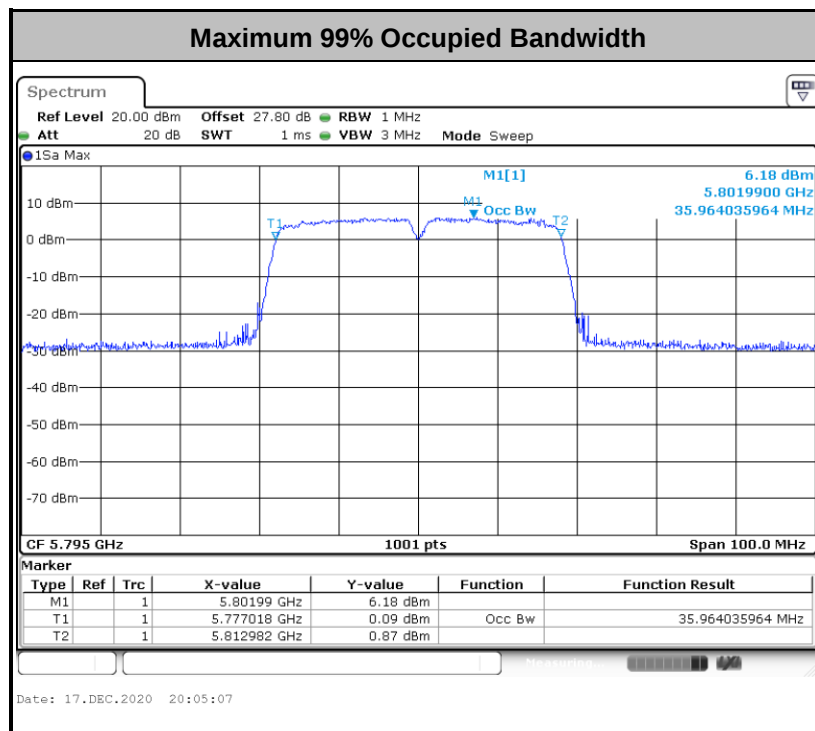
##### 3.1.4 Test Setup



##### 3.1.5 Test Result of 6dB and 26dB and 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

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

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

### 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

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

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

#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.3.3 Test Procedures

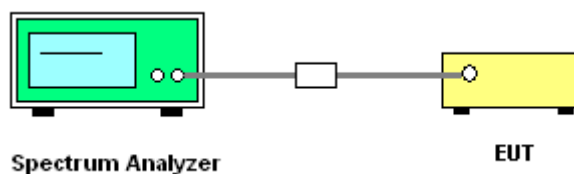
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

##### # 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.

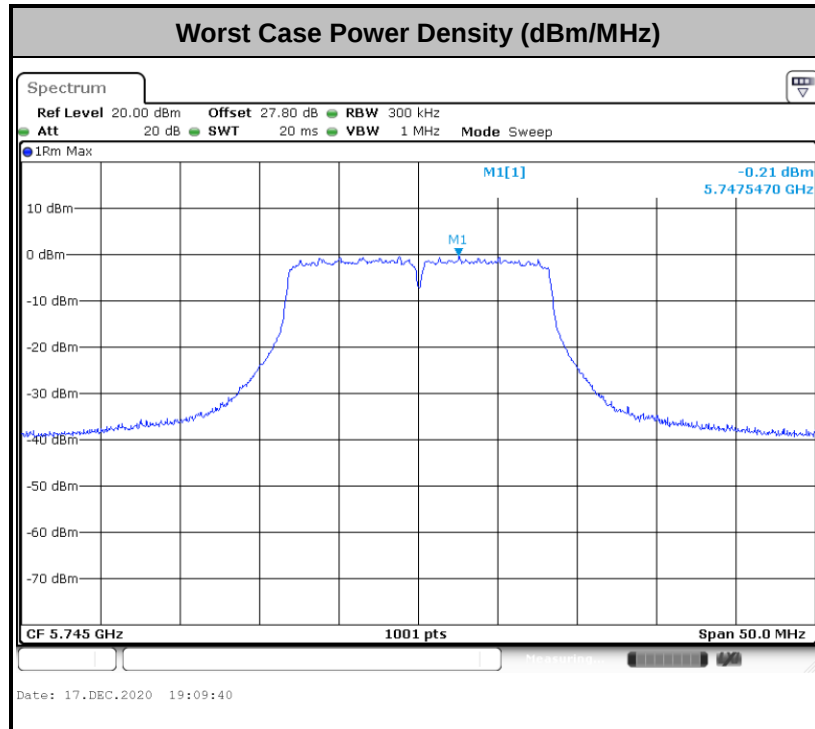
#### 3.3.4 Test Setup





### 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 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

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

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

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

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

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

(i) 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.

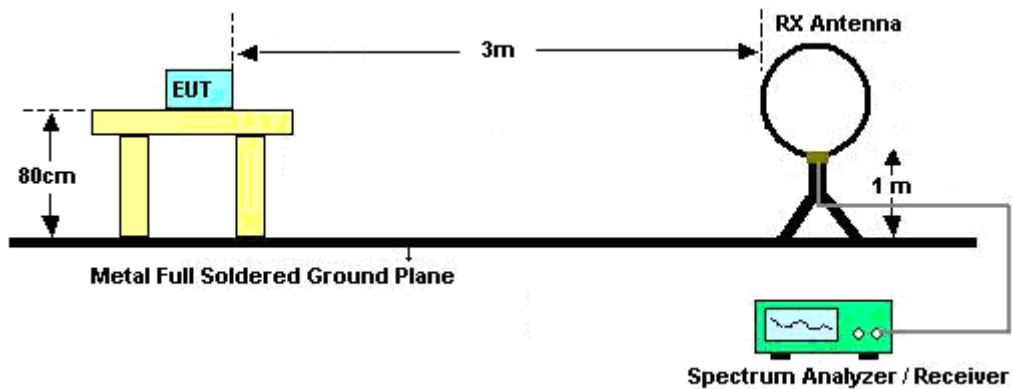
### 3.4.3 Test Procedures

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 1000MHz
  - RBW = 120 kHz
  - VBW = 300 kHz
  - Detector = Peak
  - Trace mode = max hold  
(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
  - RBW = 1 MHz
  - VBW  $\geq$  3 MHz
  - Detector = Peak
  - Sweep time = auto
  - Trace mode = max hold  
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
  - RBW = 1 MHz
  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.

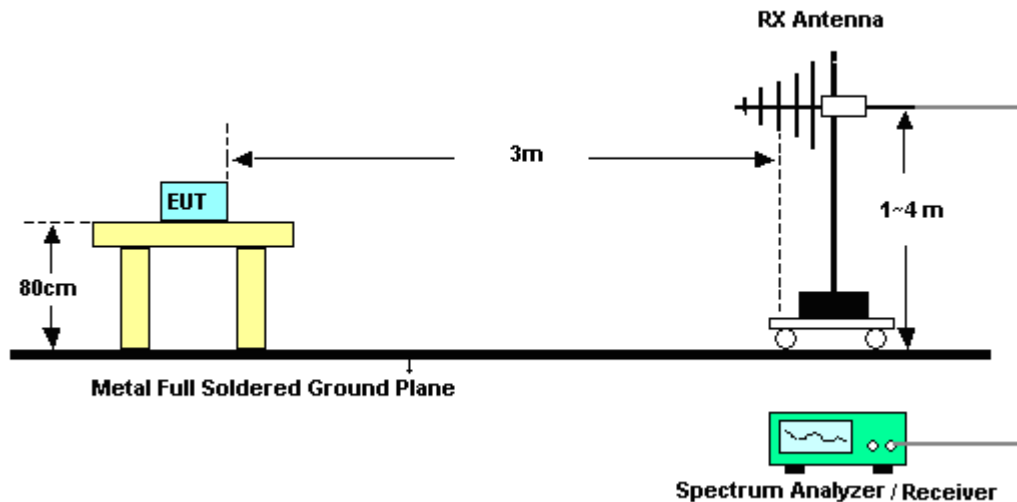
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

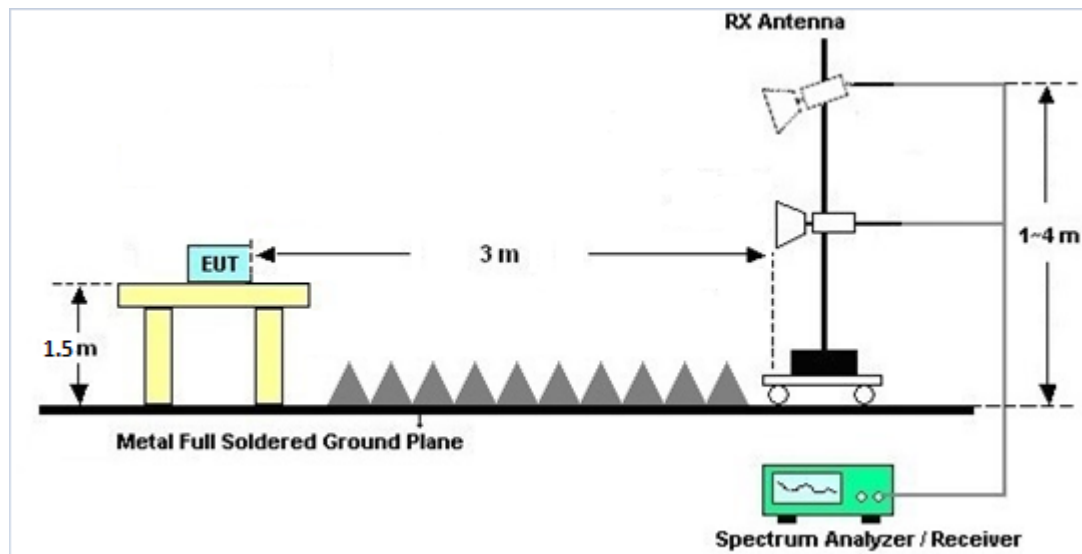
**For radiated emissions below 30MHz**



**For radiated emissions from 30MHz to 1GHz**



For radiated test above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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

Please refer to Appendix C and D.

### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

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

| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15-0.5                    | 66 to 56*                    | 56 to 46* |
| 0.5-5                       | 56                           | 46        |
| 5-30                        | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

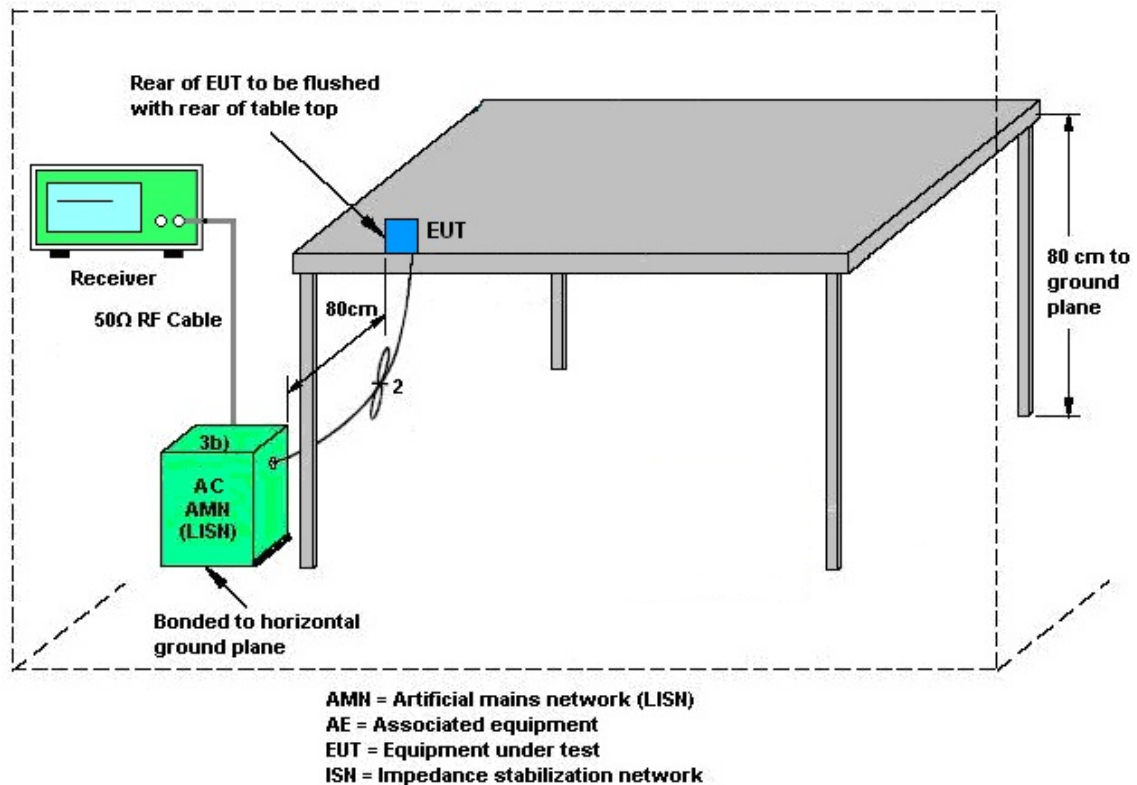
#### 3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

## **3.6 Automatically Discontinue Transmission**

### **3.6.1 Limit of Automatically Discontinue Transmission**

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

### **3.6.2 Measuring Instruments**

See list of measuring equipment of this test report.

### **3.6.3 Test Result of Automatically Discontinue Transmission**

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



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

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                   |
|-----------------------|-------------------|----------------------------------|----------------------|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Hygrometer            | Testo             | 608-H1                           | 34893241             | N/A                              | Mar. 02, 2020    | Nov. 25, 2020~<br>Dec. 17, 2020 | Mar. 01, 2021 | Conducted<br>(TH05-HY)   |
| Power Sensor          | DARE              | RPR3006W                         | 16I00054S<br>NO10    | 10MHz~6GHz                       | Dec. 23, 2019    | Nov. 25, 2020~<br>Dec. 17, 2020 | Dec. 22, 2020 | Conducted<br>(TH05-HY)   |
| Signal Analyzer       | Rohde & Schwarz   | FSV40                            | 101566               | 10Hz ~ 40GHz                     | Jul. 22, 2020    | Nov. 25, 2020~<br>Dec. 17, 2020 | Jul. 21, 2021 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer     | Rohde & Schwarz   | FSP40                            | 100055               | 9kHz-40GHz                       | Dec. 30, 2019    | Nov. 25, 2020~<br>Dec. 17, 2020 | Dec. 29, 2020 | Conducted<br>(TH05-HY)   |
| Switch Box & RF Cable | EM Electronics    | EMSW18SE                         | SW20030<br>2         | N/A                              | Mar. 17, 2020    | Nov. 25, 2020~<br>Dec. 17, 2020 | Mar. 16, 2021 | Conducted<br>(TH05-HY)   |
| Loop Antenna          | Rohde & Schwarz   | HFH2-Z2                          | 100315               | 9 kHz~30 MHz                     | Dec. 26, 2019    | Dec. 01, 2020~<br>Dec. 15, 2020 | Dec. 25, 2020 | Radiation<br>(03CH12-HY) |
| Bilog Antenna         | TESEQ             | CBL 6111D &<br>00800N1D01N-06    | 40103 &<br>07        | 30MHz~1GHz                       | Apr. 29, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Apr. 28, 2021 | Radiation<br>(03CH12-HY) |
| Horn Antenna          | SCHWARZB<br>ECK   | BBHA 9120 D                      | 9120D-13<br>28       | 1GHz~18GHz                       | Nov. 23, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Nov. 22, 2021 | Radiation<br>(03CH12-HY) |
| SHF-EHF Horn Antenna  | SCHWARZB<br>ECK   | BBHA 9170                        | BBHA917<br>0576      | 18GHz~40GHz                      | May 22, 2020     | Dec. 01, 2020~<br>Dec. 15, 2020 | May 21, 2021  | Radiation<br>(03CH12-HY) |
| Preamplifier          | COM-POWER         | PA-103                           | 161075               | 10MHz~1GHz                       | Mar. 25, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Mar. 24, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier          | Keysight          | 83017A                           | MY572801<br>20       | 1GHz~26.5GHz                     | Jul. 20, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Jul. 19, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier          | Jet-Power         | JPA0118-55-303K                  | 17100018<br>00054002 | 1GHz~18GHz                       | Feb. 07, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Feb. 06, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier          | Jet-Power         | JPA0118-55-303                   | 17100018<br>00055007 | 1GHz~18GHz                       | Mar. 31, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Mar. 30, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier          | EMEC              | EM18G40G                         | 060801               | 18GHz~40GHz                      | Jun. 15, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Jun. 14, 2021 | Radiation<br>(03CH12-HY) |
| Spectrum Analyzer     | Agilent           | N9010A                           | MY542004<br>85       | 10Hz~44GHz                       | Feb. 10, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Feb. 09, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX 104                     | MY9837/4<br>PE       | 9kHz~30MHz                       | Mar. 12, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Mar. 11, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX 126E                    | 0058/126E            | 30MHz~18GHz                      | Dec. 12, 2019    | Dec. 01, 2020~<br>Dec. 10, 2020 | Dec. 11, 2020 | Radiation<br>(03CH12-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX 126E                    | 0058/126E            | 30MHz~18GHz                      | Dec. 11, 2020    | Dec. 11, 2020~<br>Dec. 15, 2020 | Dec. 10, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX 102                     | 505134/2             | 30MHz~40GHz                      | Feb. 25, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Feb. 24, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX 102                     | 800740/2             | 30MHz~40GHz                      | Feb. 25, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Feb. 24, 2021 | Radiation<br>(03CH12-HY) |
| Hygrometer            | TECPEL            | DTM-303B                         | TP161243             | N/A                              | Jul. 27, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Jul. 26, 2021 | Radiation<br>(03CH12-HY) |
| Controller            | EMEC              | EM1000                           | N/A                  | Control Turn<br>table & Ant Mast | N/A              | Dec. 01, 2020~<br>Dec. 15, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Antenna Mast          | EMEC              | AM-BS-4500-B                     | N/A                  | 1m~4m                            | N/A              | Dec. 01, 2020~<br>Dec. 15, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Turn Table            | EMEC              | TT2000                           | N/A                  | 0~360 Degree                     | N/A              | Dec. 01, 2020~<br>Dec. 15, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Software              | Audix             | E3 6.2009-8-24                   | RK-00098<br>9        | N/A                              | N/A              | Dec. 01, 2020~<br>Dec. 15, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Filter                | Wainwright        | WLKS1200-12SS                    | SN2                  | 1.2GHz Low<br>Pass Filter        | Mar. 21, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Mar. 20, 2021 | Radiation<br>(03CH12-HY) |
| Filter                | Wainwright        | WHKX8-5872.5-6<br>750-18000-40ST | SN2                  | 6.75GHz High<br>Pass Filter      | Mar. 18, 2020    | Dec. 01, 2020~<br>Dec. 15, 2020 | Mar. 17, 2021 | Radiation<br>(03CH12-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              | Dec. 07, 2020 | N/A           | Conduction (CO05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESR3         | 102317     | 9kHz~3.6GHz     | Sep. 11, 2020    | Dec. 07, 2020 | Sep. 10, 2021 | Conduction (CO05-HY) |
| LISN              | Rohde & Schwarz | ENV216       | 100081     | 9kHz~30MHz      | Nov. 16, 2020    | Dec. 07, 2020 | Nov. 15, 2021 | Conduction (CO05-HY) |
| LISN              | TESEQ           | NNB 52       | 36122      | 9kHz~30MHz      | Feb. 04, 2020    | Dec. 07, 2020 | Feb. 03, 2021 | Conduction (CO05-HY) |
| Software          | Rohde & Schwarz | EMC32 V10.30 | N/A        | N/A             | N/A              | Dec. 07, 2020 | N/A           | Conduction (CO05-HY) |
| LF Cable          | HUBER + SUHNER  | RG-214/U     | LF01       | N/A             | Jan. 02, 2020    | Dec. 07, 2020 | Jan. 01, 2021 | Conduction (CO05-HY) |
| Pulse Limiter     | Rohde & Schwarz | ESH3-Z2      | 100851     | N/A             | Jan. 02, 2020    | Dec. 07, 2020 | Jan. 01, 2021 | Conduction (CO05-HY) |
| Hygrometer        | Testo           | 608-H1       | 34893241   | N/A             | Mar. 02, 2020    | Dec. 07, 2020 | Mar. 01, 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 |
|-------------------------------------------------------------------------|-----|

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

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

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.6 |
|-------------------------------------------------------------------------|-----|

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

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

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

|                |                         |                    |           |    |
|----------------|-------------------------|--------------------|-----------|----|
| Test Engineer: | Kai Liao                | Temperature:       | 20.7~23.9 | °C |
| Test Date:     | 2020/11/25 ~ 2020/12/17 | Relative Humidity: | 53.8~55.8 | %  |

**TEST RESULTS DATA**  
**6dB and 26dB EBW and 99% OBW**

| Band IV single antenna |           |     |     |             |                     |       |                      |       |                      |       |                                 |           |
|------------------------|-----------|-----|-----|-------------|---------------------|-------|----------------------|-------|----------------------|-------|---------------------------------|-----------|
| Mod.                   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26dB Bandwidth (MHz) |       | 6 dB Bandwidth (MHz) |       | 6 dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|                        |           |     |     |             | Ant 1               | Ant 2 | Ant 1                | Ant 2 | Ant 1                | Ant 2 |                                 |           |
| 11a                    | 6Mbps     | 1   | 149 | 5745        | 16.83               | -     | 24.25                | -     | 16.35                | -     | 0.5                             | Pass      |
| 11a                    | 6Mbps     | 1   | 157 | 5785        | 16.98               | -     | 24.25                | -     | 16.30                | -     | 0.5                             | Pass      |
| 11a                    | 6Mbps     | 1   | 165 | 5825        | 16.88               | -     | 24.10                | -     | 16.30                | -     | 0.5                             | Pass      |
| HT20                   | MCS0      | 1   | 149 | 5745        | 17.93               | -     | 24.90                | -     | 17.55                | -     | 0.5                             | Pass      |
| HT20                   | MCS0      | 1   | 157 | 5785        | 17.88               | -     | 24.50                | -     | 17.50                | -     | 0.5                             | Pass      |
| HT20                   | MCS0      | 1   | 165 | 5825        | 18.03               | -     | 24.90                | -     | 17.30                | -     | 0.5                             | Pass      |
| HT40                   | MCS0      | 1   | 151 | 5755        | 35.96               | -     | 41.04                | -     | 35.19                | -     | 0.5                             | Pass      |
| HT40                   | MCS0      | 1   | 159 | 5795        | 35.96               | -     | 42.30                | -     | 35.37                | -     | 0.5                             | Pass      |

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

| Band IV single antenna |           |     |     |             |                               |       |     |                                 |       |          |       |           |
|------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|-----------|
| Mod.                   | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|                        |           |     |     |             | Ant 1                         | Ant 2 | SUM | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a                    | 6Mbps     | 1   | 149 | 5745        | 13.80                         | -     |     | 30.00                           | -     | 5.00     | -     | Pass      |
| 11a                    | 6Mbps     | 1   | 157 | 5785        | 13.80                         | -     |     | 30.00                           | -     | 5.00     | -     | Pass      |
| 11a                    | 6Mbps     | 1   | 165 | 5825        | 13.80                         | -     |     | 30.00                           | -     | 5.00     | -     | Pass      |
| HT20                   | MCS0      | 1   | 149 | 5745        | 12.70                         | -     |     | 30.00                           | -     | 5.00     | -     | Pass      |
| HT20                   | MCS0      | 1   | 157 | 5785        | 13.00                         | -     |     | 30.00                           | -     | 5.00     | -     | Pass      |
| HT20                   | MCS0      | 1   | 165 | 5825        | 12.60                         | -     |     | 30.00                           | -     | 5.00     | -     | Pass      |
| HT40                   | MCS0      | 1   | 151 | 5755        | 12.70                         | -     |     | 30.00                           | -     | 5.00     | -     | Pass      |
| HT40                   | MCS0      | 1   | 159 | 5795        | 12.60                         | -     |     | 30.00                           | -     | 5.00     | -     | Pass      |

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

| Band IV single antenna |           |     |     |             |                                 |       |                                    |       |     |                                |       |          |       |            |
|------------------------|-----------|-----|-----|-------------|---------------------------------|-------|------------------------------------|-------|-----|--------------------------------|-------|----------|-------|------------|
| Mod.                   | Data Rate | NTX | CH. | Freq. (MHz) | 10log (500kHz /RBW) Factor (dB) |       | Average Power Density (dBm/500kHz) |       |     | Average PSD Limit (dBm/500kHz) |       | DG (dBi) |       | Pass /Fail |
|                        |           |     |     |             | Ant 1                           | Ant 2 | Ant 1                              | Ant 2 | SUM | Ant 1                          | Ant 2 | Ant 1    | Ant 2 |            |
| 11a                    | 6Mbps     | 1   | 149 | 5745        | 2.22                            | -     | 2.01                               | -     |     | 30.00                          | -     | 5.00     | -     | Pass       |
| 11a                    | 6Mbps     | 1   | 157 | 5785        | 2.22                            | -     | 1.94                               | -     |     | 30.00                          | -     | 5.00     | -     | Pass       |
| 11a                    | 6Mbps     | 1   | 165 | 5825        | 2.22                            | -     | 1.81                               | -     |     | 30.00                          | -     | 5.00     | -     | Pass       |
| HT20                   | MCS0      | 1   | 149 | 5745        | 2.22                            | -     | 1.38                               | -     |     | 30.00                          | -     | 5.00     | -     | Pass       |
| HT20                   | MCS0      | 1   | 157 | 5785        | 2.22                            | -     | 1.85                               | -     |     | 30.00                          | -     | 5.00     | -     | Pass       |
| HT20                   | MCS0      | 1   | 165 | 5825        | 2.22                            | -     | 0.67                               | -     |     | 30.00                          | -     | 5.00     | -     | Pass       |
| HT40                   | MCS0      | 1   | 151 | 5755        | 2.22                            | -     | -2.03                              | -     |     | 30.00                          | -     | 5.00     | -     | Pass       |
| HT40                   | MCS0      | 1   | 159 | 5795        | 2.22                            | -     | -1.31                              | -     |     | 30.00                          | -     | 5.00     | -     | Pass       |



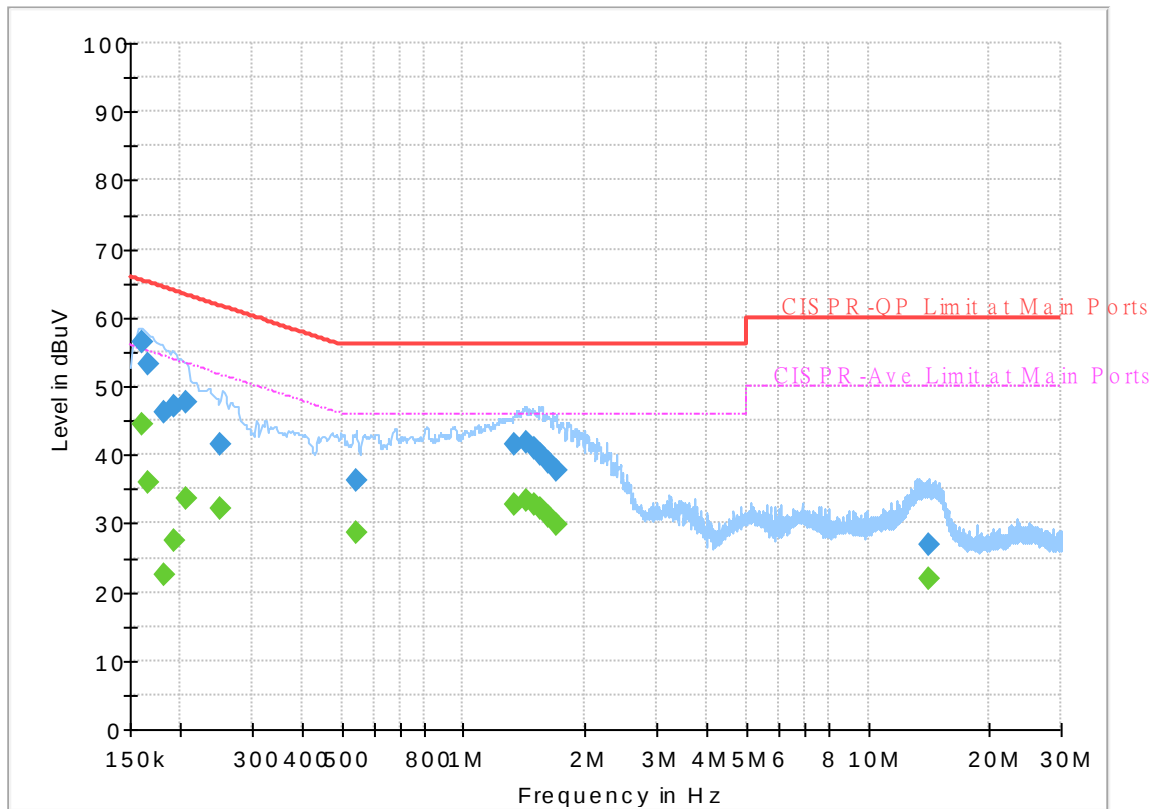
## **Appendix B. AC Conducted Emission Test Results**

|                        |                          |                            |        |
|------------------------|--------------------------|----------------------------|--------|
| <b>Test Engineer :</b> | Tom Lee and Howard Huang | <b>Temperature :</b>       | 24~26℃ |
|                        |                          | <b>Relative Humidity :</b> | 40~50% |

## EUT Information

Report NO : 0N0645  
 Test Mode : Mode 3  
 Test Voltage : Power From System  
 Phase : Line

Full Spectrum



## Final\_Result

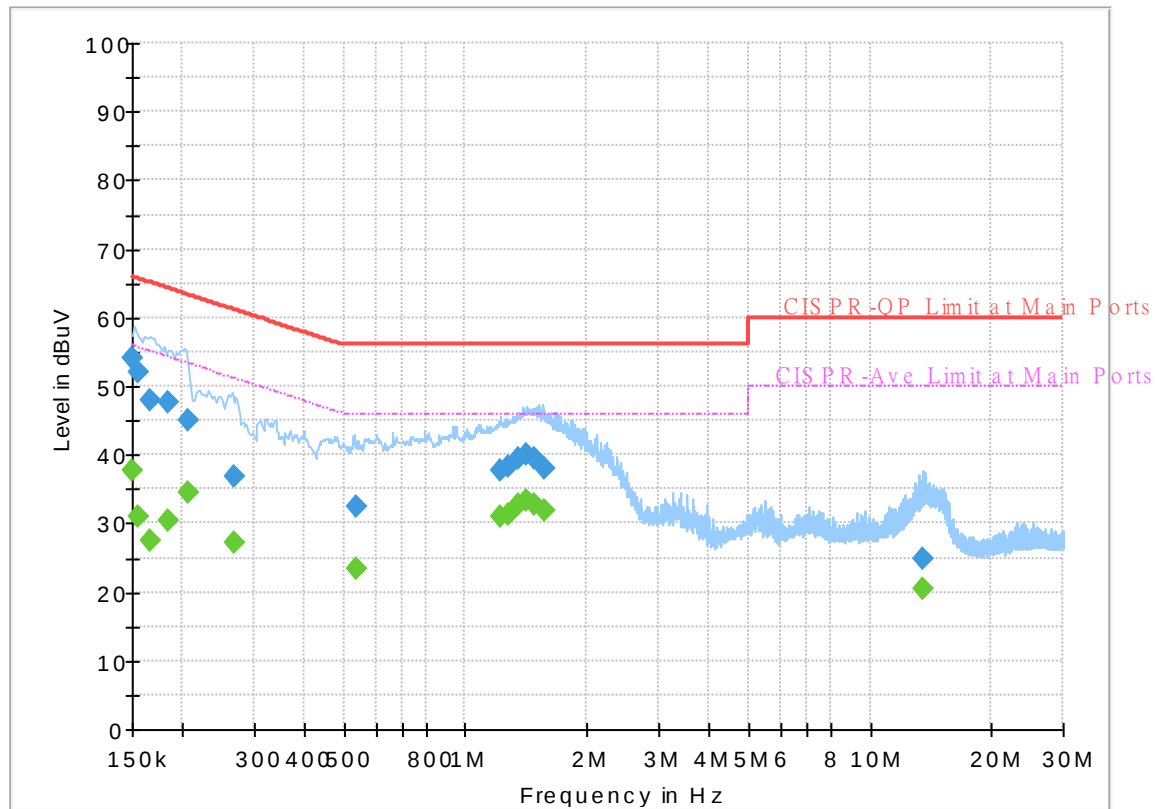
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.160890        | ---              | 44.35           | 55.42        | 11.07       | L1   | OFF    | 19.5       |
| 0.160890        | 56.49            | ---             | 65.42        | 8.93        | L1   | OFF    | 19.5       |
| 0.165750        | ---              | 35.86           | 55.17        | 19.31       | L1   | OFF    | 19.5       |
| 0.165750        | 53.14            | ---             | 65.17        | 12.03       | L1   | OFF    | 19.5       |
| 0.181500        | ---              | 22.60           | 54.42        | 31.82       | L1   | OFF    | 19.5       |
| 0.181500        | 46.19            | ---             | 64.42        | 18.23       | L1   | OFF    | 19.5       |
| 0.192120        | ---              | 27.39           | 53.94        | 26.55       | L1   | OFF    | 19.5       |
| 0.192120        | 47.01            | ---             | 63.94        | 16.93       | L1   | OFF    | 19.5       |
| 0.205800        | ---              | 33.63           | 53.37        | 19.74       | L1   | OFF    | 19.5       |
| 0.205800        | 47.56            | ---             | 63.37        | 15.81       | L1   | OFF    | 19.5       |
| 0.251250        | ---              | 32.29           | 51.72        | 19.43       | L1   | OFF    | 19.5       |
| 0.251250        | 41.43            | ---             | 61.72        | 20.29       | L1   | OFF    | 19.5       |
| 0.542760        | ---              | 28.72           | 46.00        | 17.28       | L1   | OFF    | 19.5       |
| 0.542760        | 36.11            | ---             | 56.00        | 19.89       | L1   | OFF    | 19.5       |
| 1.335750        | ---              | 32.64           | 46.00        | 13.36       | L1   | OFF    | 19.6       |
| 1.335750        | 41.66            | ---             | 56.00        | 14.34       | L1   | OFF    | 19.6       |
| 1.427100        | ---              | 33.40           | 46.00        | 12.60       | L1   | OFF    | 19.6       |
| 1.427100        | 41.87            | ---             | 56.00        | 14.13       | L1   | OFF    | 19.6       |
| 1.503060        | ---              | 32.89           | 46.00        | 13.11       | L1   | OFF    | 19.6       |
| 1.503060        | 41.07            | ---             | 56.00        | 14.93       | L1   | OFF    | 19.6       |
| 1.558500        | ---              | 32.16           | 46.00        | 13.84       | L1   | OFF    | 19.6       |

|           |       |       |       |       |    |     |      |
|-----------|-------|-------|-------|-------|----|-----|------|
| 1.558500  | 40.12 | ---   | 56.00 | 15.88 | L1 | OFF | 19.6 |
| 1.619250  | ---   | 30.86 | 46.00 | 15.14 | L1 | OFF | 19.6 |
| 1.619250  | 38.90 | ---   | 56.00 | 17.10 | L1 | OFF | 19.6 |
| 1.699530  | ---   | 29.89 | 46.00 | 16.11 | L1 | OFF | 19.6 |
| 1.699530  | 37.61 | ---   | 56.00 | 18.39 | L1 | OFF | 19.6 |
| 14.172000 | ---   | 21.87 | 50.00 | 28.13 | L1 | OFF | 19.8 |
| 14.172000 | 26.76 | ---   | 60.00 | 33.24 | L1 | OFF | 19.8 |

## EUT Information

Report NO : 0N0645  
 Test Mode : Mode 3  
 Test Voltage : Power From System  
 Phase : Neutral

Full Spectrum



## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.150000        | ---              | 37.62           | 56.00        | 18.38       | N    | OFF    | 19.6       |
| 0.150000        | 54.08            | ---             | 66.00        | 11.92       | N    | OFF    | 19.6       |
| 0.154500        | ---              | 30.96           | 55.75        | 24.79       | N    | OFF    | 19.5       |
| 0.154500        | 52.13            | ---             | 65.75        | 13.62       | N    | OFF    | 19.5       |
| 0.166200        | ---              | 27.52           | 55.15        | 27.63       | N    | OFF    | 19.5       |
| 0.166200        | 47.86            | ---             | 65.15        | 17.29       | N    | OFF    | 19.5       |
| 0.183750        | ---              | 30.29           | 54.31        | 24.02       | N    | OFF    | 19.5       |
| 0.183750        | 47.63            | ---             | 64.31        | 16.68       | N    | OFF    | 19.5       |
| 0.206700        | ---              | 34.38           | 53.34        | 18.96       | N    | OFF    | 19.5       |
| 0.206700        | 45.13            | ---             | 63.34        | 18.21       | N    | OFF    | 19.5       |
| 0.267360        | ---              | 27.05           | 51.20        | 24.15       | N    | OFF    | 19.5       |
| 0.267360        | 36.80            | ---             | 61.20        | 24.40       | N    | OFF    | 19.5       |
| 0.534750        | ---              | 23.30           | 46.00        | 22.70       | N    | OFF    | 19.5       |
| 0.534750        | 32.33            | ---             | 56.00        | 23.67       | N    | OFF    | 19.5       |
| 1.214250        | ---              | 30.92           | 46.00        | 15.08       | N    | OFF    | 19.6       |
| 1.214250        | 37.78            | ---             | 56.00        | 18.22       | N    | OFF    | 19.6       |
| 1.284810        | ---              | 31.26           | 46.00        | 14.74       | N    | OFF    | 19.6       |
| 1.284810        | 38.39            | ---             | 56.00        | 17.61       | N    | OFF    | 19.6       |
| 1.351500        | ---              | 32.64           | 46.00        | 13.36       | N    | OFF    | 19.6       |
| 1.351500        | 39.62            | ---             | 56.00        | 16.38       | N    | OFF    | 19.6       |
| 1.409370        | ---              | 33.46           | 46.00        | 12.54       | N    | OFF    | 19.6       |

|           |       |       |       |       |   |     |      |
|-----------|-------|-------|-------|-------|---|-----|------|
| 1.409370  | 40.14 | ---   | 56.00 | 15.86 | N | OFF | 19.6 |
| 1.487490  | ---   | 32.85 | 46.00 | 13.15 | N | OFF | 19.6 |
| 1.487490  | 39.36 | ---   | 56.00 | 16.64 | N | OFF | 19.6 |
| 1.562190  | ---   | 31.99 | 46.00 | 14.01 | N | OFF | 19.6 |
| 1.562190  | 38.08 | ---   | 56.00 | 17.92 | N | OFF | 19.6 |
| 13.452000 | ---   | 20.41 | 50.00 | 29.59 | N | OFF | 19.8 |
| 13.452000 | 24.86 | ---   | 60.00 | 35.14 | N | OFF | 19.8 |



## Appendix C. Radiated Spurious Emission

|                 |                                        |                     |             |
|-----------------|----------------------------------------|---------------------|-------------|
| Test Engineer : | Jack Cheng, Lance Chiang and Chuan Chu | Temperature :       | 22.3~26.4°C |
|                 |                                        | Relative Humidity : | 58~66%      |

&lt;Sample 1&gt;

## Band 4 - 5725~5850MHz

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

| WIFI Ant.                    | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|------------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 149<br>5745MHz |      | 5628.6    | 49.4       | -18.8      | 68.2       | 41.5       | 31.6           | 9.58      | 33.28         | 101     | 254       | P         | H       |
|                              |      | 5699.2    | 49.56      | -55.05     | 104.61     | 41.41      | 31.8           | 9.66      | 33.31         | 101     | 254       | P         | H       |
|                              |      | 5714.6    | 50.68      | -58.61     | 109.29     | 42.45      | 31.86          | 9.68      | 33.31         | 101     | 254       | P         | H       |
|                              |      | 5724.4    | 54.6       | -66.23     | 120.83     | 46.32      | 31.9           | 9.7       | 33.32         | 101     | 254       | P         | H       |
|                              | *    | 5745      | 106.03     | -          | -          | 97.65      | 31.98          | 9.72      | 33.32         | 101     | 254       | P         | H       |
|                              | *    | 5745      | 98.42      | -          | -          | 90.04      | 31.98          | 9.72      | 33.32         | 101     | 254       | A         | H       |
|                              |      |           |            |            |            |            |                |           |               |         |           |           | H       |
|                              |      |           |            |            |            |            |                |           |               |         |           |           | H       |
|                              |      | 5631.6    | 46.92      | -21.28     | 68.2       | 39.02      | 31.6           | 9.58      | 33.28         | 400     | 93        | P         | V       |
|                              |      | 5668.2    | 46.4       | -35.31     | 81.71      | 38.4       | 31.67          | 9.63      | 33.3          | 400     | 93        | P         | V       |
|                              |      | 5702      | 46.33      | -59.43     | 105.76     | 38.16      | 31.81          | 9.67      | 33.31         | 400     | 93        | P         | V       |
|                              |      | 5723.6    | 46.76      | -72.25     | 119.01     | 38.5       | 31.89          | 9.69      | 33.32         | 400     | 93        | P         | V       |
|                              | *    | 5745      | 100.03     | -          | -          | 91.65      | 31.98          | 9.72      | 33.32         | 400     | 93        | P         | V       |
|                              | *    | 5745      | 92.15      | -          | -          | 83.77      | 31.98          | 9.72      | 33.32         | 400     | 93        | A         | V       |
|                              |      |           |            |            |            |            |                |           |               |         |           |           | V       |
|                              |      |           |            |            |            |            |                |           |               |         |           |           | V       |



| WIFI<br>Ant.<br>1            | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 157<br>5785MHz |      | 5643                 | 48.78               | -19.42                  | 68.2                        | 40.88                     | 31.6                          | 9.59                   | 33.29                      | 106                  | 240                     | P                       | H               |
|                              |      | 5698                 | 47.5                | -56.23                  | 103.73                      | 39.36                     | 31.79                         | 9.66                   | 33.31                      | 106                  | 240                     | P                       | H               |
|                              |      | 5714.2               | 48.07               | -61.11                  | 109.18                      | 39.84                     | 31.86                         | 9.68                   | 33.31                      | 106                  | 240                     | P                       | H               |
|                              |      | 5724.2               | 48.53               | -71.85                  | 120.38                      | 40.25                     | 31.9                          | 9.7                    | 33.32                      | 106                  | 240                     | P                       | H               |
|                              | *    | 5785                 | 107.21              | -                       | -                           | 98.71                     | 32.07                         | 9.77                   | 33.34                      | 106                  | 240                     | P                       | H               |
|                              | *    | 5785                 | 99.54               | -                       | -                           | 91.04                     | 32.07                         | 9.77                   | 33.34                      | 106                  | 240                     | A                       | H               |
|                              |      | 5851.8               | 49.23               | -68.86                  | 118.09                      | 40.53                     | 32.21                         | 9.85                   | 33.36                      | 106                  | 240                     | P                       | H               |
|                              |      | 5862.6               | 49.52               | -59.15                  | 108.67                      | 40.77                     | 32.25                         | 9.86                   | 33.36                      | 106                  | 240                     | P                       | H               |
|                              |      | 5908                 | 51.53               | -29.21                  | 80.74                       | 42.6                      | 32.4                          | 9.91                   | 33.38                      | 106                  | 240                     | P                       | H               |
|                              |      | 5943                 | 49.81               | -18.39                  | 68.2                        | 40.85                     | 32.4                          | 9.95                   | 33.39                      | 106                  | 240                     | P                       | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      | 5620.6               | 46.74               | -21.46                  | 68.2                        | 38.85                     | 31.6                          | 9.57                   | 33.28                      | 400                  | 60                      | P                       | V               |
|                              |      | 5669.4               | 46.25               | -36.34                  | 82.59                       | 38.24                     | 31.68                         | 9.63                   | 33.3                       | 400                  | 60                      | P                       | V               |
|                              |      | 5707                 | 46.82               | -60.34                  | 107.16                      | 38.63                     | 31.83                         | 9.67                   | 33.31                      | 400                  | 60                      | P                       | V               |
|                              |      | 5721.6               | 45.58               | -68.87                  | 114.45                      | 37.32                     | 31.89                         | 9.69                   | 33.32                      | 400                  | 60                      | P                       | V               |
|                              | *    | 5785                 | 102.77              | -                       | -                           | 94.27                     | 32.07                         | 9.77                   | 33.34                      | 400                  | 60                      | P                       | V               |
|                              | *    | 5785                 | 95.07               | -                       | -                           | 86.57                     | 32.07                         | 9.77                   | 33.34                      | 400                  | 60                      | A                       | V               |
|                              |      | 5853                 | 47.31               | -68.05                  | 115.36                      | 38.61                     | 32.21                         | 9.85                   | 33.36                      | 400                  | 60                      | P                       | V               |
|                              |      | 5859.4               | 48.18               | -61.39                  | 109.57                      | 39.44                     | 32.24                         | 9.86                   | 33.36                      | 400                  | 60                      | P                       | V               |
|                              |      | 5923.8               | 49.45               | -19.63                  | 69.08                       | 40.5                      | 32.4                          | 9.93                   | 33.38                      | 400                  | 60                      | P                       | V               |
|                              |      | 5942.6               | 49.66               | -18.54                  | 68.2                        | 40.7                      | 32.4                          | 9.95                   | 33.39                      | 400                  | 60                      | P                       | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 165<br>5825MHz | *                                                                                           | 5825                 | 106.88              | -                       | -                           | 98.26                     | 32.15                         | 9.82                   | 33.35                      | 100                  | 239                     | P                       | H               |
|                              | *                                                                                           | 5825                 | 99.46               | -                       | -                           | 90.84                     | 32.15                         | 9.82                   | 33.35                      | 100                  | 239                     | A                       | H               |
|                              |                                                                                             | 5850.6               | 54.37               | -66.46                  | 120.83                      | 45.68                     | 32.2                          | 9.85                   | 33.36                      | 100                  | 239                     | P                       | H               |
|                              |                                                                                             | 5862                 | 51.91               | -56.93                  | 108.84                      | 43.16                     | 32.25                         | 9.86                   | 33.36                      | 100                  | 239                     | P                       | H               |
|                              |                                                                                             | 5893                 | 51.01               | -40.83                  | 91.84                       | 42.12                     | 32.37                         | 9.89                   | 33.37                      | 100                  | 239                     | P                       | H               |
|                              |                                                                                             | 5947                 | 52.02               | -16.18                  | 68.2                        | 43.06                     | 32.4                          | 9.95                   | 33.39                      | 100                  | 239                     | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              | *                                                                                           | 5825                 | 102.95              | -                       | -                           | 94.33                     | 32.15                         | 9.82                   | 33.35                      | 396                  | 46                      | P                       | V               |
|                              | *                                                                                           | 5825                 | 95.4                | -                       | -                           | 86.78                     | 32.15                         | 9.82                   | 33.35                      | 396                  | 46                      | A                       | V               |
|                              |                                                                                             | 5852                 | 51.88               | -65.76                  | 117.64                      | 43.18                     | 32.21                         | 9.85                   | 33.36                      | 396                  | 46                      | P                       | V               |
|                              |                                                                                             | 5858                 | 49.42               | -60.54                  | 109.96                      | 40.7                      | 32.23                         | 9.85                   | 33.36                      | 396                  | 46                      | P                       | V               |
|                              |                                                                                             | 5904.6               | 48.33               | -34.93                  | 83.26                       | 39.4                      | 32.4                          | 9.91                   | 33.38                      | 396                  | 46                      | P                       | V               |
|                              |                                                                                             | 5948.6               | 49.24               | -18.96                  | 68.2                        | 40.28                     | 32.4                          | 9.95                   | 33.39                      | 396                  | 46                      | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 149<br>5745MHz |                                                                                             | 11490                | 49.62               | -24.38                  | 74                          | 54.49                     | 39.98                         | 17.46                  | 62.31                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17235                | 49.62               | -18.58                  | 68.2                        | 46.47                     | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11490                | 49.69               | -24.31                  | 74                          | 54.56                     | 39.98                         | 17.46                  | 62.31                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17235                | 48.1                | -20.1                   | 68.2                        | 44.95                     | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11a<br>CH 157<br>5785MHz |                                                                                             | 11570                | 47.85               | -26.15                  | 74                          | 52.9                      | 39.72                         | 17.54                  | 62.31                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17355                | 49.23               | -18.97                  | 68.2                        | 44.91                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11570                | 56.12               | -17.88                  | 74                          | 61.17                     | 39.72                         | 17.54                  | 62.31                      | 373                  | 181                     | P                       | V               |
|                              |                                                                                             | 11570                | 44.72               | -9.28                   | 54                          | 49.77                     | 39.72                         | 17.54                  | 62.31                      | 373                  | 181                     | A                       | V               |
|                              |                                                                                             | 17355                | 49.27               | -18.93                  | 68.2                        | 44.95                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11a<br>CH 165<br>5825MHz |                                                                                             | 11650                | 48.29               | -25.71                  | 74                          | 53.7                      | 39.3                          | 17.62                  | 62.33                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17475                | 49.96               | -18.24                  | 68.2                        | 44.54                     | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11650                | 49.63               | -24.37                  | 74                          | 55.04                     | 39.3                          | 17.62                  | 62.33                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17475                | 50.37               | -17.83                  | 68.2                        | 44.95                     | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                              | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT20<br/>CH 149<br/>5745MHz</b> |      | 5617                 | 48.17               | -20.03                  | 68.2                        | 40.29                     | 31.6                          | 9.56                   | 33.28                      | 125                  | 237                     | P                       | H               |
|                                                |      | 5665.4               | 48.57               | -31.06                  | 79.63                       | 40.59                     | 31.66                         | 9.62                   | 33.3                       | 125                  | 237                     | P                       | H               |
|                                                |      | 5712.6               | 50.02               | -58.71                  | 108.73                      | 41.8                      | 31.85                         | 9.68                   | 33.31                      | 125                  | 237                     | P                       | H               |
|                                                |      | 5724.6               | 54.6                | -66.69                  | 121.29                      | 46.32                     | 31.9                          | 9.7                    | 33.32                      | 125                  | 237                     | P                       | H               |
|                                                | *    | 5745                 | 105.67              | -                       | -                           | 97.29                     | 31.98                         | 9.72                   | 33.32                      | 125                  | 237                     | P                       | H               |
|                                                | *    | 5745                 | 98.11               | -                       | -                           | 89.73                     | 31.98                         | 9.72                   | 33.32                      | 125                  | 237                     | A                       | H               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                |      | 5639.2               | 48.56               | -19.64                  | 68.2                        | 40.66                     | 31.6                          | 9.59                   | 33.29                      | 388                  | 260                     | P                       | V               |
|                                                |      | 5692.2               | 47.64               | -51.81                  | 99.45                       | 39.52                     | 31.77                         | 9.66                   | 33.31                      | 388                  | 260                     | P                       | V               |
|                                                |      | 5718.6               | 48.62               | -61.79                  | 110.41                      | 40.37                     | 31.87                         | 9.69                   | 33.31                      | 388                  | 260                     | P                       | V               |
|                                                |      | 5725                 | 51.39               | -70.81                  | 122.2                       | 43.11                     | 31.9                          | 9.7                    | 33.32                      | 388                  | 260                     | P                       | V               |
|                                                | *    | 5745                 | 100.18              | -                       | -                           | 91.8                      | 31.98                         | 9.72                   | 33.32                      | 388                  | 260                     | P                       | V               |
|                                                | *    | 5745                 | 92.66               | -                       | -                           | 84.28                     | 31.98                         | 9.72                   | 33.32                      | 388                  | 260                     | A                       | V               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                              | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT20<br/>CH 157<br/>5785MHz</b> |      | 5610                 | 48.04               | -20.16                  | 68.2                        | 40.17                     | 31.6                          | 9.55                   | 33.28                      | 105                  | 240                     | P                       | H               |
|                                                |      | 5662.6               | 48.49               | -29.06                  | 77.55                       | 40.52                     | 31.65                         | 9.62                   | 33.3                       | 105                  | 240                     | P                       | H               |
|                                                |      | 5707.4               | 47.81               | -59.46                  | 107.27                      | 39.62                     | 31.83                         | 9.67                   | 33.31                      | 105                  | 240                     | P                       | H               |
|                                                |      | 5722.2               | 46.78               | -69.04                  | 115.82                      | 38.52                     | 31.89                         | 9.69                   | 33.32                      | 105                  | 240                     | P                       | H               |
|                                                | *    | 5785                 | 106.43              | -                       | -                           | 97.93                     | 32.07                         | 9.77                   | 33.34                      | 105                  | 240                     | P                       | H               |
|                                                | *    | 5785                 | 98.79               | -                       | -                           | 90.29                     | 32.07                         | 9.77                   | 33.34                      | 105                  | 240                     | A                       | H               |
|                                                |      | 5853                 | 48.78               | -66.58                  | 115.36                      | 40.08                     | 32.21                         | 9.85                   | 33.36                      | 105                  | 240                     | P                       | H               |
|                                                |      | 5858.4               | 50.06               | -59.79                  | 109.85                      | 41.34                     | 32.23                         | 9.85                   | 33.36                      | 105                  | 240                     | P                       | H               |
|                                                |      | 5903.8               | 51.87               | -31.98                  | 83.85                       | 42.95                     | 32.4                          | 9.9                    | 33.38                      | 105                  | 240                     | P                       | H               |
|                                                |      | 5941.8               | 51.48               | -16.72                  | 68.2                        | 42.52                     | 32.4                          | 9.95                   | 33.39                      | 105                  | 240                     | P                       | H               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                |      | 5615                 | 46.66               | -21.54                  | 68.2                        | 38.78                     | 31.6                          | 9.56                   | 33.28                      | 332                  | 294                     | P                       | V               |
|                                                |      | 5680.6               | 47.62               | -43.26                  | 90.88                       | 39.56                     | 31.72                         | 9.64                   | 33.3                       | 332                  | 294                     | P                       | V               |
|                                                |      | 5700.6               | 47.45               | -57.92                  | 105.37                      | 39.29                     | 31.8                          | 9.67                   | 33.31                      | 332                  | 294                     | P                       | V               |
|                                                |      | 5723.8               | 45.62               | -73.84                  | 119.46                      | 37.35                     | 31.9                          | 9.69                   | 33.32                      | 332                  | 294                     | P                       | V               |
|                                                | *    | 5785                 | 100.84              | -                       | -                           | 92.34                     | 32.07                         | 9.77                   | 33.34                      | 332                  | 294                     | P                       | V               |
|                                                | *    | 5785                 | 93                  | -                       | -                           | 84.5                      | 32.07                         | 9.77                   | 33.34                      | 332                  | 294                     | A                       | V               |
|                                                |      | 5854.8               | 48.93               | -62.33                  | 111.26                      | 40.22                     | 32.22                         | 9.85                   | 33.36                      | 332                  | 294                     | P                       | V               |
|                                                |      | 5860.8               | 48.21               | -60.96                  | 109.17                      | 39.47                     | 32.24                         | 9.86                   | 33.36                      | 332                  | 294                     | P                       | V               |
|                                                |      | 5922.4               | 51.26               | -18.86                  | 70.12                       | 42.32                     | 32.4                          | 9.92                   | 33.38                      | 332                  | 294                     | P                       | V               |
|                                                |      | 5941                 | 49.19               | -19.01                  | 68.2                        | 40.23                     | 32.4                          | 9.95                   | 33.39                      | 332                  | 294                     | P                       | V               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 165<br>5825MHz | *                                                                                           | 5825                 | 105.87              | -                       | -                           | 97.25                     | 32.15                         | 9.82                   | 33.35                      | 101                  | 239                     | P                       | H               |
|                                      | *                                                                                           | 5825                 | 98.09               | -                       | -                           | 89.47                     | 32.15                         | 9.82                   | 33.35                      | 101                  | 239                     | A                       | H               |
|                                      |                                                                                             | 5853.8               | 52.08               | -61.46                  | 113.54                      | 43.37                     | 32.22                         | 9.85                   | 33.36                      | 101                  | 239                     | P                       | H               |
|                                      |                                                                                             | 5857.6               | 52.29               | -57.78                  | 110.07                      | 43.57                     | 32.23                         | 9.85                   | 33.36                      | 101                  | 239                     | P                       | H               |
|                                      |                                                                                             | 5886.8               | 52.29               | -44.15                  | 96.44                       | 43.42                     | 32.35                         | 9.89                   | 33.37                      | 101                  | 239                     | P                       | H               |
|                                      |                                                                                             | 5939.2               | 52.22               | -15.98                  | 68.2                        | 43.27                     | 32.4                          | 9.94                   | 33.39                      | 101                  | 239                     | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      | *                                                                                           | 5825                 | 101.35              | -                       | -                           | 92.73                     | 32.15                         | 9.82                   | 33.35                      | 397                  | 295                     | P                       | V               |
|                                      | *                                                                                           | 5825                 | 93.96               | -                       | -                           | 85.34                     | 32.15                         | 9.82                   | 33.35                      | 397                  | 295                     | A                       | V               |
|                                      |                                                                                             | 5852.6               | 49.19               | -67.08                  | 116.27                      | 40.49                     | 32.21                         | 9.85                   | 33.36                      | 397                  | 295                     | P                       | V               |
|                                      |                                                                                             | 5861.4               | 48.51               | -60.5                   | 109.01                      | 39.76                     | 32.25                         | 9.86                   | 33.36                      | 397                  | 295                     | P                       | V               |
|                                      |                                                                                             | 5891.8               | 48.86               | -43.87                  | 92.73                       | 39.97                     | 32.37                         | 9.89                   | 33.37                      | 397                  | 295                     | P                       | V               |
|                                      |                                                                                             | 5928.8               | 48.91               | -19.29                  | 68.2                        | 39.97                     | 32.4                          | 9.93                   | 33.39                      | 397                  | 295                     | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 149<br>5745MHz |                                                                                             | 11490                | 47.64               | -26.36                  | 74                          | 52.51                     | 39.98                         | 17.46                  | 62.31                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17235                | 47                  | -21.2                   | 68.2                        | 43.85                     | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11490                | 49.1                | -24.9                   | 74                          | 53.97                     | 39.98                         | 17.46                  | 62.31                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17235                | 48.05               | -20.15                  | 68.2                        | 44.9                      | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 157<br>5785MHz |                                                                                             | 11570                | 48.26               | -25.74                  | 74                          | 53.31                     | 39.72                         | 17.54                  | 62.31                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17355                | 49.58               | -18.62                  | 68.2                        | 45.26                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11570                | 49.62               | -24.38                  | 74                          | 54.67                     | 39.72                         | 17.54                  | 62.31                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17355                | 49.24               | -18.96                  | 68.2                        | 44.92                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 165<br>5825MHz |                                                                                             | 11650                | 48.32               | -25.68                  | 74                          | 53.73                     | 39.3                          | 17.62                  | 62.33                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17475                | 49.61               | -18.59                  | 68.2                        | 44.19                     | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11650                | 48.37               | -25.63                  | 74                          | 53.78                     | 39.3                          | 17.62                  | 62.33                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17475                | 50.32               | -17.88                  | 68.2                        | 44.9                      | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |      | 5624.6               | 49.03               | -19.17                  | 68.2                        | 41.14                     | 31.6                          | 9.57                   | 33.28                      | 108                  | 239                     | P                       | H               |
|                                      |      | 5699.2               | 48.26               | -56.35                  | 104.61                      | 40.11                     | 31.8                          | 9.66                   | 33.31                      | 108                  | 239                     | P                       | H               |
|                                      |      | 5717.6               | 53.86               | -56.27                  | 110.13                      | 45.61                     | 31.87                         | 9.69                   | 33.31                      | 108                  | 239                     | P                       | H               |
|                                      |      | 5723.6               | 56.31               | -62.7                   | 119.01                      | 48.05                     | 31.89                         | 9.69                   | 33.32                      | 108                  | 239                     | P                       | H               |
|                                      | *    | 5755                 | 103.03              | -                       | -                           | 94.62                     | 32.01                         | 9.73                   | 33.33                      | 108                  | 239                     | P                       | H               |
|                                      | *    | 5755                 | 95.39               | -                       | -                           | 86.98                     | 32.01                         | 9.73                   | 33.33                      | 108                  | 239                     | A                       | H               |
|                                      |      | 5851.4               | 50.4                | -68.61                  | 119.01                      | 41.7                      | 32.21                         | 9.85                   | 33.36                      | 108                  | 239                     | P                       | H               |
|                                      |      | 5870.8               | 49.99               | -56.38                  | 106.37                      | 41.21                     | 32.28                         | 9.87                   | 33.37                      | 108                  | 239                     | P                       | H               |
|                                      |      | 5924.8               | 49.85               | -18.5                   | 68.35                       | 40.9                      | 32.4                          | 9.93                   | 33.38                      | 108                  | 239                     | P                       | H               |
|                                      |      | 5942.4               | 49.99               | -18.21                  | 68.2                        | 41.03                     | 32.4                          | 9.95                   | 33.39                      | 108                  | 239                     | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 5633.2               | 46.52               | -21.68                  | 68.2                        | 38.63                     | 31.6                          | 9.58                   | 33.29                      | 400                  | 92                      | P                       | V               |
|                                      |      | 5660.2               | 47.65               | -28.12                  | 75.77                       | 39.68                     | 31.64                         | 9.62                   | 33.29                      | 400                  | 92                      | P                       | V               |
|                                      |      | 5718                 | 46.8                | -63.44                  | 110.24                      | 38.55                     | 31.87                         | 9.69                   | 33.31                      | 400                  | 92                      | P                       | V               |
|                                      |      | 5720                 | 48.48               | -62.32                  | 110.8                       | 40.22                     | 31.88                         | 9.69                   | 33.31                      | 400                  | 92                      | P                       | V               |
|                                      | *    | 5755                 | 96.3                | -                       | -                           | 87.89                     | 32.01                         | 9.73                   | 33.33                      | 400                  | 92                      | P                       | V               |
|                                      | *    | 5755                 | 89.48               | -                       | -                           | 81.07                     | 32.01                         | 9.73                   | 33.33                      | 400                  | 92                      | A                       | V               |
|                                      |      | 5852.8               | 46.23               | -69.59                  | 115.82                      | 37.53                     | 32.21                         | 9.85                   | 33.36                      | 400                  | 92                      | P                       | V               |
|                                      |      | 5873                 | 46.93               | -58.83                  | 105.76                      | 38.14                     | 32.29                         | 9.87                   | 33.37                      | 400                  | 92                      | P                       | V               |
|                                      |      | 5920.4               | 49.73               | -21.86                  | 71.59                       | 40.79                     | 32.4                          | 9.92                   | 33.38                      | 400                  | 92                      | P                       | V               |
|                                      |      | 5938.4               | 48.59               | -19.61                  | 68.2                        | 39.64                     | 32.4                          | 9.94                   | 33.39                      | 400                  | 92                      | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 5647.4               | 46.97               | -21.23                  | 68.2                        | 39.06                     | 31.6                          | 9.6                    | 33.29                      | 119                  | 240                     | P                       | H               |
|                                      |                                                                                             | 5681.2               | 47.41               | -43.92                  | 91.33                       | 39.35                     | 31.72                         | 9.64                   | 33.3                       | 119                  | 240                     | P                       | H               |
|                                      |                                                                                             | 5716.2               | 47.58               | -62.16                  | 109.74                      | 39.34                     | 31.86                         | 9.69                   | 33.31                      | 119                  | 240                     | P                       | H               |
|                                      |                                                                                             | 5724.4               | 47.92               | -72.91                  | 120.83                      | 39.64                     | 31.9                          | 9.7                    | 33.32                      | 119                  | 240                     | P                       | H               |
|                                      | *                                                                                           | 5795                 | 102.37              | -                       | -                           | 93.84                     | 32.09                         | 9.78                   | 33.34                      | 119                  | 240                     | P                       | H               |
|                                      | *                                                                                           | 5795                 | 95.36               | -                       | -                           | 86.83                     | 32.09                         | 9.78                   | 33.34                      | 119                  | 240                     | A                       | H               |
|                                      |                                                                                             | 5854.4               | 49.93               | -62.24                  | 112.17                      | 41.22                     | 32.22                         | 9.85                   | 33.36                      | 119                  | 240                     | P                       | H               |
|                                      |                                                                                             | 5855.8               | 51.23               | -59.35                  | 110.58                      | 42.52                     | 32.22                         | 9.85                   | 33.36                      | 119                  | 240                     | P                       | H               |
|                                      |                                                                                             | 5881.4               | 50.61               | -49.84                  | 100.45                      | 41.77                     | 32.33                         | 9.88                   | 33.37                      | 119                  | 240                     | P                       | H               |
|                                      |                                                                                             | 5941.4               | 50.87               | -17.33                  | 68.2                        | 41.91                     | 32.4                          | 9.95                   | 33.39                      | 119                  | 240                     | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 5605.8               | 46.66               | -21.54                  | 68.2                        | 38.79                     | 31.6                          | 9.55                   | 33.28                      | 399                  | 59                      | P                       | V               |
|                                      |                                                                                             | 5688.6               | 46.86               | -49.93                  | 96.79                       | 38.76                     | 31.75                         | 9.65                   | 33.3                       | 399                  | 59                      | P                       | V               |
|                                      |                                                                                             | 5704.6               | 45.64               | -60.85                  | 106.49                      | 37.46                     | 31.82                         | 9.67                   | 33.31                      | 399                  | 59                      | P                       | V               |
|                                      |                                                                                             | 5721.8               | 45.99               | -68.91                  | 114.9                       | 37.73                     | 31.89                         | 9.69                   | 33.32                      | 399                  | 59                      | P                       | V               |
|                                      | *                                                                                           | 5795                 | 98.08               | -                       | -                           | 89.55                     | 32.09                         | 9.78                   | 33.34                      | 399                  | 59                      | P                       | V               |
|                                      | *                                                                                           | 5795                 | 91.46               | -                       | -                           | 82.93                     | 32.09                         | 9.78                   | 33.34                      | 399                  | 59                      | A                       | V               |
|                                      |                                                                                             | 5851.6               | 46.82               | -71.73                  | 118.55                      | 38.12                     | 32.21                         | 9.85                   | 33.36                      | 399                  | 59                      | P                       | V               |
|                                      |                                                                                             | 5874.6               | 47.15               | -58.16                  | 105.31                      | 38.35                     | 32.3                          | 9.87                   | 33.37                      | 399                  | 59                      | P                       | V               |
|                                      |                                                                                             | 5921.4               | 48.86               | -21.99                  | 70.85                       | 39.92                     | 32.4                          | 9.92                   | 33.38                      | 399                  | 59                      | P                       | V               |
|                                      |                                                                                             | 5939.4               | 49.3                | -18.9                   | 68.2                        | 40.35                     | 32.4                          | 9.94                   | 33.39                      | 399                  | 59                      | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |                                                                                             | 11510                | 47.81               | -26.19                  | 74                          | 52.68                     | 39.96                         | 17.47                  | 62.3                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17265                | 47.63               | -20.57                  | 68.2                        | 44.25                     | 40.36                         | 21.44                  | 58.42                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11510                | 48.92               | -25.08                  | 74                          | 53.79                     | 39.96                         | 17.47                  | 62.3                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17265                | 47.68               | -20.52                  | 68.2                        | 44.3                      | 40.36                         | 21.44                  | 58.42                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 11590                | 48.69               | -25.31                  | 74                          | 53.81                     | 39.64                         | 17.56                  | 62.32                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17385                | 49.68               | -18.52                  | 68.2                        | 45.01                     | 41.26                         | 21.62                  | 58.21                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11590                | 47.79               | -26.21                  | 74                          | 52.91                     | 39.64                         | 17.56                  | 62.32                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17385                | 48.83               | -19.37                  | 68.2                        | 44.16                     | 41.26                         | 21.62                  | 58.21                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Emission below 1GHz

## WIFI 802.11a (LF @ 3m)

| WIFI          | Note                                                                       | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.          |                                                                            |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>LF |                                                                            | 71.71     | 26.67      | -13.33 | 40         | 43.11    | 12.38    | 0.85   | 29.67  | -      | -       | P       | H       |
|               |                                                                            | 174.53    | 31.83      | -11.67 | 43.5       | 44.65    | 15.36    | 1.36   | 29.54  | -      | -       | P       | H       |
|               |                                                                            | 360.77    | 35.35      | -10.65 | 46         | 41.7     | 20.86    | 2.03   | 29.24  | -      | -       | P       | H       |
|               |                                                                            | 664.38    | 38.46      | -7.54  | 46         | 37.88    | 26.4     | 2.87   | 28.69  | -      | -       | P       | H       |
|               |                                                                            | 746.83    | 39.18      | -6.82  | 46         | 36.29    | 28.29    | 3.21   | 28.61  | 100    | 0       | P       | H       |
|               |                                                                            | 954.41    | 36.57      | -9.43  | 46         | 30.22    | 30.77    | 3.71   | 28.13  | -      | -       | P       | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            | 31.94     | 28.92      | -11.08 | 40         | 34.58    | 23.43    | 0.56   | 29.65  | -      | -       | P       | V       |
|               |                                                                            | 111.48    | 29.79      | -13.71 | 43.5       | 41.32    | 16.99    | 1.11   | 29.63  | -      | -       | P       | V       |
|               |                                                                            | 173.56    | 31.85      | -11.65 | 43.5       | 44.59    | 15.44    | 1.36   | 29.54  | -      | -       | P       | V       |
|               |                                                                            | 666.32    | 38.36      | -7.64  | 46         | 37.75    | 26.41    | 2.88   | 28.68  | 100    | 0       | P       | V       |
|               |                                                                            | 871.96    | 35.42      | -10.58 | 46         | 31       | 29.09    | 3.63   | 28.3   | -      | -       | P       | V       |
|               |                                                                            | 954.41    | 36.3       | -9.7   | 46         | 29.95    | 30.77    | 3.71   | 28.13  | -      | -       | P       | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark        | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



&lt;Sample 2&gt;

&lt;Dipole Antenna&gt;

## Band 4 - 5725~5850MHz

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

| WIFI<br>Ant.                 | Note | Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Path<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Peak<br>Avg. | Pol.    |
|------------------------------|------|-----------|------------|---------------|---------------|---------------|-------------------|--------------|------------------|------------|--------------|--------------|---------|
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB )        | ( dBμV/m )    | ( dBμV )      | ( dB/m )          | ( dB )       | ( dB )           | ( cm )     | ( deg )      | ( P/A )      | ( H/V ) |
| 802.11a<br>CH 149<br>5745MHz |      | 5630.8    | 50.42      | -17.78        | 68.2          | 42.52         | 31.6              | 9.58         | 33.28            | 100        | 192          | P            | H       |
|                              |      | 5668.6    | 49.12      | -32.88        | 82            | 41.12         | 31.67             | 9.63         | 33.3             | 100        | 192          | P            | H       |
|                              |      | 5719      | 57.54      | -52.98        | 110.52        | 49.28         | 31.88             | 9.69         | 33.31            | 100        | 192          | P            | H       |
|                              |      | 5725      | 63.63      | -58.57        | 122.2         | 55.35         | 31.9              | 9.7          | 33.32            | 100        | 192          | P            | H       |
|                              | *    | 5745      | 109.15     | -             | -             | 100.77        | 31.98             | 9.72         | 33.32            | 100        | 192          | P            | H       |
|                              | *    | 5745      | 101.35     | -             | -             | 92.97         | 31.98             | 9.72         | 33.32            | 100        | 192          | A            | H       |
|                              |      |           |            |               |               |               |                   |              |                  |            |              |              | H       |
|                              |      |           |            |               |               |               |                   |              |                  |            |              |              | H       |
|                              |      | 5603.6    | 46.85      | -21.35        | 68.2          | 38.99         | 31.6              | 9.54         | 33.28            | 299        | 272          | P            | V       |
|                              |      | 5670      | 46.1       | -36.94        | 83.04         | 38.09         | 31.68             | 9.63         | 33.3             | 299        | 272          | P            | V       |
|                              |      | 5717      | 49.45      | -60.51        | 109.96        | 41.2          | 31.87             | 9.69         | 33.31            | 299        | 272          | P            | V       |
|                              |      | 5724.8    | 51.55      | -70.19        | 121.74        | 43.27         | 31.9              | 9.7          | 33.32            | 299        | 272          | P            | V       |
|                              | *    | 5745      | 99.01      | -             | -             | 90.63         | 31.98             | 9.72         | 33.32            | 299        | 272          | P            | V       |
|                              | *    | 5745      | 91.68      | -             | -             | 83.3          | 31.98             | 9.72         | 33.32            | 299        | 272          | A            | V       |
|                              |      |           |            |               |               |               |                   |              |                  |            |              |              | V       |
|                              |      |           |            |               |               |               |                   |              |                  |            |              |              | V       |



| WIFI<br>Ant.<br>1            | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 157<br>5785MHz |      | 5609.6               | 48.49               | -19.71                  | 68.2                        | 40.62                     | 31.6                          | 9.55                   | 33.28                      | 125                  | 190                     | P                       | H               |
|                              |      | 5662.6               | 50.06               | -27.49                  | 77.55                       | 42.09                     | 31.65                         | 9.62                   | 33.3                       | 125                  | 190                     | P                       | H               |
|                              |      | 5719.2               | 48.62               | -61.96                  | 110.58                      | 40.36                     | 31.88                         | 9.69                   | 33.31                      | 125                  | 190                     | P                       | H               |
|                              |      | 5725                 | 49.48               | -72.72                  | 122.2                       | 41.2                      | 31.9                          | 9.7                    | 33.32                      | 125                  | 190                     | P                       | H               |
|                              | *    | 5785                 | 110.14              | -                       | -                           | 101.64                    | 32.07                         | 9.77                   | 33.34                      | 125                  | 190                     | P                       | H               |
|                              | *    | 5785                 | 101.91              | -                       | -                           | 93.41                     | 32.07                         | 9.77                   | 33.34                      | 125                  | 190                     | A                       | H               |
|                              |      | 5850.8               | 51.57               | -68.81                  | 120.38                      | 42.88                     | 32.2                          | 9.85                   | 33.36                      | 125                  | 190                     | P                       | H               |
|                              |      | 5869                 | 52.87               | -54.01                  | 106.88                      | 44.09                     | 32.28                         | 9.87                   | 33.37                      | 125                  | 190                     | P                       | H               |
|                              |      | 5904                 | 53.38               | -30.32                  | 83.7                        | 44.46                     | 32.4                          | 9.9                    | 33.38                      | 125                  | 190                     | P                       | H               |
|                              |      | 5947                 | 51.76               | -16.44                  | 68.2                        | 42.8                      | 32.4                          | 9.95                   | 33.39                      | 125                  | 190                     | P                       | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      | 5606.2               | 47.68               | -20.52                  | 68.2                        | 39.81                     | 31.6                          | 9.55                   | 33.28                      | 400                  | 25                      | P                       | V               |
|                              |      | 5671.6               | 46.52               | -37.7                   | 84.22                       | 38.5                      | 31.69                         | 9.63                   | 33.3                       | 400                  | 25                      | P                       | V               |
|                              |      | 5708.2               | 45.76               | -61.74                  | 107.5                       | 37.56                     | 31.83                         | 9.68                   | 33.31                      | 400                  | 25                      | P                       | V               |
|                              |      | 5720.8               | 45.37               | -67.25                  | 112.62                      | 37.12                     | 31.88                         | 9.69                   | 33.32                      | 400                  | 25                      | P                       | V               |
|                              | *    | 5785                 | 100.48              | -                       | -                           | 91.98                     | 32.07                         | 9.77                   | 33.34                      | 400                  | 25                      | P                       | V               |
|                              | *    | 5785                 | 92.41               | -                       | -                           | 83.91                     | 32.07                         | 9.77                   | 33.34                      | 400                  | 25                      | A                       | V               |
|                              |      | 5851.8               | 46.65               | -71.45                  | 118.1                       | 37.95                     | 32.21                         | 9.85                   | 33.36                      | 400                  | 25                      | P                       | V               |
|                              |      | 5863.4               | 47.91               | -60.54                  | 108.45                      | 39.16                     | 32.25                         | 9.86                   | 33.36                      | 400                  | 25                      | P                       | V               |
|                              |      | 5907.2               | 48.48               | -32.86                  | 81.34                       | 39.55                     | 32.4                          | 9.91                   | 33.38                      | 400                  | 25                      | P                       | V               |
|                              |      | 5930.6               | 47.61               | -20.59                  | 68.2                        | 38.67                     | 32.4                          | 9.93                   | 33.39                      | 400                  | 25                      | P                       | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                     | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11a<br/>CH 165<br/>5825MHz</b> | *                                                                                           | 5825                 | 110.68              | -                       | -                           | 102.06                    | 32.15                         | 9.82                   | 33.35                      | 121                  | 191                     | P                       | H               |
|                                       | *                                                                                           | 5825                 | 102.43              | -                       | -                           | 93.81                     | 32.15                         | 9.82                   | 33.35                      | 121                  | 191                     | A                       | H               |
|                                       |                                                                                             | 5850                 | 60.17               | -62.03                  | 122.2                       | 51.48                     | 32.2                          | 9.85                   | 33.36                      | 121                  | 191                     | P                       | H               |
|                                       |                                                                                             | 5856.6               | 56.09               | -54.26                  | 110.35                      | 47.37                     | 32.23                         | 9.85                   | 33.36                      | 121                  | 191                     | P                       | H               |
|                                       |                                                                                             | 5884.2               | 52.24               | -46.13                  | 98.37                       | 43.39                     | 32.34                         | 9.88                   | 33.37                      | 121                  | 191                     | P                       | H               |
|                                       |                                                                                             | 5940.4               | 53.1                | -15.1                   | 68.2                        | 44.15                     | 32.4                          | 9.94                   | 33.39                      | 121                  | 191                     | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       | *                                                                                           | 5825                 | 100.9               | -                       | -                           | 92.28                     | 32.15                         | 9.82                   | 33.35                      | 395                  | 24                      | P                       | V               |
|                                       | *                                                                                           | 5825                 | 92.68               | -                       | -                           | 84.06                     | 32.15                         | 9.82                   | 33.35                      | 395                  | 24                      | A                       | V               |
|                                       |                                                                                             | 5850.2               | 52.91               | -68.83                  | 121.74                      | 44.22                     | 32.2                          | 9.85                   | 33.36                      | 395                  | 24                      | P                       | V               |
|                                       |                                                                                             | 5859.4               | 49.31               | -60.26                  | 109.57                      | 40.57                     | 32.24                         | 9.86                   | 33.36                      | 395                  | 24                      | P                       | V               |
|                                       |                                                                                             | 5903.6               | 49.42               | -34.58                  | 84                          | 40.5                      | 32.4                          | 9.9                    | 33.38                      | 395                  | 24                      | P                       | V               |
|                                       |                                                                                             | 5927.6               | 49.07               | -19.13                  | 68.2                        | 40.13                     | 32.4                          | 9.93                   | 33.39                      | 395                  | 24                      | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI Ant. 1                  | Note                                                                                        | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11a<br>CH 149<br>5745MHz |                                                                                             | 11490             | 54.22            | -19.78            | 74                    | 59.09               | 39.98                   | 17.46            | 62.31                | 126            | 243               | P                 | H            |
|                              |                                                                                             | 11490             | 46.62            | -7.38             | 54                    | 51.49               | 39.98                   | 17.46            | 62.31                | 126            | 243               | A                 | H            |
|                              |                                                                                             | 17235             | 48.98            | -19.22            | 68.2                  | 45.83               | 40.24                   | 21.39            | 58.48                | 100            | 0                 | P                 | H            |
|                              |                                                                                             |                   |                  |                   |                       |                     |                         |                  |                      |                |                   |                   | H            |
|                              |                                                                                             | 11490             | 55.44            | -18.56            | 74                    | 60.31               | 39.98                   | 17.46            | 62.31                | 251            | 276               | P                 | V            |
|                              |                                                                                             | 11490             | 47.15            | -6.85             | 54                    | 52.02               | 39.98                   | 17.46            | 62.31                | 251            | 276               | A                 | V            |
|                              |                                                                                             | 17235             | 49.3             | -18.9             | 68.2                  | 46.15               | 40.24                   | 21.39            | 58.48                | 100            | 0                 | P                 | V            |
|                              |                                                                                             |                   |                  |                   |                       |                     |                         |                  |                      |                |                   |                   | V            |
| 802.11a<br>CH 157<br>5785MHz |                                                                                             | 11570             | 55.97            | -18.03            | 74                    | 61.02               | 39.72                   | 17.54            | 62.31                | 119            | 242               | P                 | H            |
|                              |                                                                                             | 11570             | 48.1             | -5.9              | 54                    | 53.15               | 39.72                   | 17.54            | 62.31                | 119            | 242               | A                 | H            |
|                              |                                                                                             | 17355             | 49.79            | -18.41            | 68.2                  | 45.47               | 41                      | 21.58            | 58.26                | 100            | 0                 | P                 | H            |
|                              |                                                                                             |                   |                  |                   |                       |                     |                         |                  |                      |                |                   |                   | H            |
|                              |                                                                                             | 11570             | 58.15            | -15.85            | 74                    | 63.2                | 39.72                   | 17.54            | 62.31                | 249            | 275               | P                 | V            |
|                              |                                                                                             | 11570             | 49.19            | -4.81             | 54                    | 54.24               | 39.72                   | 17.54            | 62.31                | 249            | 275               | A                 | V            |
|                              |                                                                                             | 17355             | 50.61            | -17.59            | 68.2                  | 46.29               | 41                      | 21.58            | 58.26                | 100            | 0                 | P                 | V            |
|                              |                                                                                             |                   |                  |                   |                       |                     |                         |                  |                      |                |                   |                   | V            |
| 802.11a<br>CH 165<br>5825MHz |                                                                                             | 11650             | 56.15            | -17.85            | 74                    | 61.56               | 39.3                    | 17.62            | 62.33                | 100            | 311               | P                 | H            |
|                              |                                                                                             | 11650             | 46.38            | -7.62             | 54                    | 51.79               | 39.3                    | 17.62            | 62.33                | 100            | 311               | A                 | H            |
|                              |                                                                                             | 17475             | 50.87            | -17.33            | 68.2                  | 45.45               | 41.7                    | 21.76            | 58.04                | 100            | 0                 | P                 | H            |
|                              |                                                                                             |                   |                  |                   |                       |                     |                         |                  |                      |                |                   |                   | H            |
|                              |                                                                                             | 11650             | 58.29            | -15.71            | 74                    | 63.7                | 39.3                    | 17.62            | 62.33                | 350            | 286               | P                 | V            |
|                              |                                                                                             | 11650             | 48.64            | -5.36             | 54                    | 54.05               | 39.3                    | 17.62            | 62.33                | 350            | 286               | A                 | V            |
|                              |                                                                                             | 17475             | 51.32            | -16.88            | 68.2                  | 45.9                | 41.7                    | 21.76            | 58.04                | 100            | 0                 | P                 | V            |
|                              |                                                                                             |                   |                  |                   |                       |                     |                         |                  |                      |                |                   |                   | V            |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                   |                  |                   |                       |                     |                         |                  |                      |                |                   |                   |              |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 149<br>5745MHz |      | 5628                 | 49.67               | -18.53                  | 68.2                        | 41.78                     | 31.6                          | 9.57                   | 33.28                      | 100                  | 180                     | P                       | H               |
|                                      |      | 5695.4               | 49.85               | -51.96                  | 101.81                      | 41.72                     | 31.78                         | 9.66                   | 33.31                      | 100                  | 180                     | P                       | H               |
|                                      |      | 5720                 | 59.85               | -50.95                  | 110.8                       | 51.59                     | 31.88                         | 9.69                   | 33.31                      | 100                  | 180                     | P                       | H               |
|                                      |      | 5723.8               | 62.39               | -57.07                  | 119.46                      | 54.12                     | 31.9                          | 9.69                   | 33.32                      | 100                  | 180                     | P                       | H               |
|                                      | *    | 5745                 | 108                 | -                       | -                           | 99.62                     | 31.98                         | 9.72                   | 33.32                      | 100                  | 180                     | P                       | H               |
|                                      | *    | 5745                 | 100.46              | -                       | -                           | 92.08                     | 31.98                         | 9.72                   | 33.32                      | 100                  | 180                     | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 5646.4               | 47.13               | -21.07                  | 68.2                        | 39.22                     | 31.6                          | 9.6                    | 33.29                      | 299                  | 273                     | P                       | V               |
|                                      |      | 5693.8               | 46.75               | -53.88                  | 100.63                      | 38.62                     | 31.78                         | 9.66                   | 33.31                      | 299                  | 273                     | P                       | V               |
|                                      |      | 5719.8               | 48.01               | -62.73                  | 110.74                      | 39.75                     | 31.88                         | 9.69                   | 33.31                      | 299                  | 273                     | P                       | V               |
|                                      |      | 5723.8               | 51.99               | -67.47                  | 119.46                      | 43.72                     | 31.9                          | 9.69                   | 33.32                      | 299                  | 273                     | P                       | V               |
|                                      | *    | 5745                 | 98.33               | -                       | -                           | 89.95                     | 31.98                         | 9.72                   | 33.32                      | 299                  | 273                     | P                       | V               |
|                                      | *    | 5745                 | 90.98               | -                       | -                           | 82.6                      | 31.98                         | 9.72                   | 33.32                      | 299                  | 273                     | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 157<br>5785MHz |      | 5608                 | 47.21               | -20.99                  | 68.2                        | 39.34                     | 31.6                          | 9.55                   | 33.28                      | 113                  | 191                     | P                       | H               |
|                                      |      | 5668                 | 48.66               | -32.9                   | 81.56                       | 40.67                     | 31.67                         | 9.62                   | 33.3                       | 113                  | 191                     | P                       | H               |
|                                      |      | 5706.4               | 49.36               | -57.63                  | 106.99                      | 41.17                     | 31.83                         | 9.67                   | 33.31                      | 113                  | 191                     | P                       | H               |
|                                      |      | 5720.8               | 47.13               | -65.49                  | 112.62                      | 38.88                     | 31.88                         | 9.69                   | 33.32                      | 113                  | 191                     | P                       | H               |
|                                      | *    | 5785                 | 109.56              | -                       | -                           | 101.06                    | 32.07                         | 9.77                   | 33.34                      | 113                  | 191                     | P                       | H               |
|                                      | *    | 5785                 | 101.4               | -                       | -                           | 92.9                      | 32.07                         | 9.77                   | 33.34                      | 113                  | 191                     | A                       | H               |
|                                      |      | 5852                 | 49.74               | -67.9                   | 117.64                      | 41.04                     | 32.21                         | 9.85                   | 33.36                      | 113                  | 191                     | P                       | H               |
|                                      |      | 5860                 | 50.32               | -59.08                  | 109.4                       | 41.58                     | 32.24                         | 9.86                   | 33.36                      | 113                  | 191                     | P                       | H               |
|                                      |      | 5908.6               | 52.43               | -27.87                  | 80.3                        | 43.5                      | 32.4                          | 9.91                   | 33.38                      | 113                  | 191                     | P                       | H               |
|                                      |      | 5949                 | 50.58               | -17.62                  | 68.2                        | 41.62                     | 32.4                          | 9.95                   | 33.39                      | 113                  | 191                     | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 5647.8               | 46.25               | -21.95                  | 68.2                        | 38.34                     | 31.6                          | 9.6                    | 33.29                      | 380                  | 23                      | P                       | V               |
|                                      |      | 5664.6               | 46.32               | -32.72                  | 79.04                       | 38.34                     | 31.66                         | 9.62                   | 33.3                       | 380                  | 23                      | P                       | V               |
|                                      |      | 5711.8               | 46.07               | -62.44                  | 108.51                      | 37.85                     | 31.85                         | 9.68                   | 33.31                      | 380                  | 23                      | P                       | V               |
|                                      |      | 5722.4               | 45.74               | -70.53                  | 116.27                      | 37.48                     | 31.89                         | 9.69                   | 33.32                      | 380                  | 23                      | P                       | V               |
|                                      | *    | 5785                 | 99.55               | -                       | -                           | 91.05                     | 32.07                         | 9.77                   | 33.34                      | 380                  | 23                      | P                       | V               |
|                                      | *    | 5785                 | 91.92               | -                       | -                           | 83.42                     | 32.07                         | 9.77                   | 33.34                      | 380                  | 23                      | A                       | V               |
|                                      |      | 5853.4               | 46.95               | -67.5                   | 114.45                      | 38.25                     | 32.21                         | 9.85                   | 33.36                      | 380                  | 23                      | P                       | V               |
|                                      |      | 5867.8               | 47.01               | -60.2                   | 107.21                      | 38.25                     | 32.27                         | 9.86                   | 33.37                      | 380                  | 23                      | P                       | V               |
|                                      |      | 5902.4               | 48.79               | -36.1                   | 84.89                       | 39.87                     | 32.4                          | 9.9                    | 33.38                      | 380                  | 23                      | P                       | V               |
|                                      |      | 5947.8               | 48.48               | -19.72                  | 68.2                        | 39.52                     | 32.4                          | 9.95                   | 33.39                      | 380                  | 23                      | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 165<br>5825MHz | *                                                                                           | 5825                 | 108.63              | -                       | -                           | 100.01                    | 32.15                         | 9.82                   | 33.35                      | 116                  | 181                     | P                       | H               |
|                                      | *                                                                                           | 5825                 | 100.94              | -                       | -                           | 92.32                     | 32.15                         | 9.82                   | 33.35                      | 116                  | 181                     | A                       | H               |
|                                      |                                                                                             | 5850.4               | 55.24               | -66.05                  | 121.29                      | 46.55                     | 32.2                          | 9.85                   | 33.36                      | 116                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5856.8               | 52.51               | -57.79                  | 110.3                       | 43.79                     | 32.23                         | 9.85                   | 33.36                      | 116                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5903.6               | 51.46               | -32.54                  | 84                          | 42.54                     | 32.4                          | 9.9                    | 33.38                      | 116                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5939.2               | 52.14               | -16.06                  | 68.2                        | 43.19                     | 32.4                          | 9.94                   | 33.39                      | 116                  | 181                     | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      | *                                                                                           | 5825                 | 99.45               | -                       | -                           | 90.83                     | 32.15                         | 9.82                   | 33.35                      | 375                  | 23                      | P                       | V               |
|                                      | *                                                                                           | 5825                 | 91.8                | -                       | -                           | 83.18                     | 32.15                         | 9.82                   | 33.35                      | 375                  | 23                      | A                       | V               |
|                                      |                                                                                             | 5850.4               | 47.72               | -73.57                  | 121.29                      | 39.03                     | 32.2                          | 9.85                   | 33.36                      | 375                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5863.4               | 47.48               | -60.97                  | 108.45                      | 38.73                     | 32.25                         | 9.86                   | 33.36                      | 375                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5906.6               | 48.27               | -33.51                  | 81.78                       | 39.34                     | 32.4                          | 9.91                   | 33.38                      | 375                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5949.4               | 49.29               | -18.91                  | 68.2                        | 40.33                     | 32.4                          | 9.95                   | 33.39                      | 375                  | 23                      | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 149<br>5745MHz |                                                                                             | 11490                | 52.54               | -21.46                  | 74                          | 57.41                     | 39.98                         | 17.46                  | 62.31                      | 100                  | 311                     | P                       | H               |
|                                      |                                                                                             | 11490                | 44.85               | -9.15                   | 54                          | 49.72                     | 39.98                         | 17.46                  | 62.31                      | 100                  | 311                     | A                       | H               |
|                                      |                                                                                             | 17235                | 49.21               | -18.99                  | 68.2                        | 46.06                     | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11490                | 55.54               | -18.46                  | 74                          | 60.41                     | 39.98                         | 17.46                  | 62.31                      | 269                  | 280                     | P                       | V               |
|                                      |                                                                                             | 11490                | 47.44               | -6.56                   | 54                          | 52.31                     | 39.98                         | 17.46                  | 62.31                      | 269                  | 280                     | A                       | V               |
|                                      |                                                                                             | 17235                | 48.39               | -19.81                  | 68.2                        | 45.24                     | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 157<br>5785MHz |                                                                                             | 11570                | 55.83               | -18.17                  | 74                          | 60.88                     | 39.72                         | 17.54                  | 62.31                      | 106                  | 312                     | P                       | H               |
|                                      |                                                                                             | 11570                | 47.34               | -6.66                   | 54                          | 52.39                     | 39.72                         | 17.54                  | 62.31                      | 106                  | 312                     | A                       | H               |
|                                      |                                                                                             | 17355                | 49.49               | -18.71                  | 68.2                        | 45.17                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11570                | 57.48               | -16.52                  | 74                          | 62.53                     | 39.72                         | 17.54                  | 62.31                      | 254                  | 280                     | P                       | V               |
|                                      |                                                                                             | 11570                | 48.69               | -5.31                   | 54                          | 53.74                     | 39.72                         | 17.54                  | 62.31                      | 254                  | 280                     | A                       | V               |
|                                      |                                                                                             | 17355                | 50.77               | -17.43                  | 68.2                        | 46.45                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 165<br>5825MHz |                                                                                             | 11650                | 52.33               | -21.67                  | 74                          | 57.74                     | 39.3                          | 17.62                  | 62.33                      | 118                  | 313                     | P                       | H               |
|                                      |                                                                                             | 11650                | 43.93               | -10.07                  | 54                          | 49.34                     | 39.3                          | 17.62                  | 62.33                      | 118                  | 313                     | A                       | H               |
|                                      |                                                                                             | 17475                | 52.62               | -15.58                  | 68.2                        | 47.2                      | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11650                | 55.85               | -18.15                  | 74                          | 61.26                     | 39.3                          | 17.62                  | 62.33                      | 270                  | 280                     | P                       | V               |
|                                      |                                                                                             | 11650                | 47.05               | -6.95                   | 54                          | 52.46                     | 39.3                          | 17.62                  | 62.33                      | 270                  | 280                     | A                       | V               |
|                                      |                                                                                             | 17475                | 51.97               | -16.23                  | 68.2                        | 46.55                     | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |      | 5602.6               | 48.7                | -19.5                   | 68.2                        | 40.83                     | 31.6                          | 9.54                   | 33.27                      | 100                  | 182                     | P                       | H               |
|                                      |      | 5681.2               | 49.82               | -41.51                  | 91.33                       | 41.76                     | 31.72                         | 9.64                   | 33.3                       | 100                  | 182                     | P                       | H               |
|                                      |      | 5706.4               | 56.41               | -50.58                  | 106.99                      | 48.22                     | 31.83                         | 9.67                   | 33.31                      | 100                  | 182                     | P                       | H               |
|                                      |      | 5723.4               | 61.02               | -57.53                  | 118.55                      | 52.76                     | 31.89                         | 9.69                   | 33.32                      | 100                  | 182                     | P                       | H               |
|                                      | *    | 5755                 | 105.43              | -                       | -                           | 97.02                     | 32.01                         | 9.73                   | 33.33                      | 100                  | 182                     | P                       | H               |
|                                      | *    | 5755                 | 98.21               | -                       | -                           | 89.8                      | 32.01                         | 9.73                   | 33.33                      | 100                  | 182                     | A                       | H               |
|                                      |      | 5853.8               | 49.92               | -63.62                  | 113.54                      | 41.21                     | 32.22                         | 9.85                   | 33.36                      | 100                  | 182                     | P                       | H               |
|                                      |      | 5863.6               | 51.48               | -56.91                  | 108.39                      | 42.73                     | 32.25                         | 9.86                   | 33.36                      | 100                  | 182                     | P                       | H               |
|                                      |      | 5897.4               | 51.05               | -37.54                  | 88.59                       | 42.14                     | 32.39                         | 9.9                    | 33.38                      | 100                  | 182                     | P                       | H               |
|                                      |      | 5941                 | 49.49               | -18.71                  | 68.2                        | 40.53                     | 32.4                          | 9.95                   | 33.39                      | 100                  | 182                     | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 5626.8               | 46.03               | -22.17                  | 68.2                        | 38.14                     | 31.6                          | 9.57                   | 33.28                      | 314                  | 278                     | P                       | V               |
|                                      |      | 5685                 | 47.32               | -46.81                  | 94.13                       | 39.23                     | 31.74                         | 9.65                   | 33.3                       | 314                  | 278                     | P                       | V               |
|                                      |      | 5719                 | 50.37               | -60.15                  | 110.52                      | 42.11                     | 31.88                         | 9.69                   | 33.31                      | 314                  | 278                     | P                       | V               |
|                                      |      | 5723.4               | 50.17               | -68.38                  | 118.55                      | 41.91                     | 31.89                         | 9.69                   | 33.32                      | 314                  | 278                     | P                       | V               |
|                                      | *    | 5755                 | 95.1                | -                       | -                           | 86.69                     | 32.01                         | 9.73                   | 33.33                      | 314                  | 278                     | P                       | V               |
|                                      | *    | 5755                 | 88.11               | -                       | -                           | 79.7                      | 32.01                         | 9.73                   | 33.33                      | 314                  | 278                     | A                       | V               |
|                                      |      | 5851.2               | 46.51               | -72.95                  | 119.46                      | 37.82                     | 32.2                          | 9.85                   | 33.36                      | 314                  | 278                     | P                       | V               |
|                                      |      | 5865.4               | 47.36               | -60.53                  | 107.89                      | 38.6                      | 32.26                         | 9.86                   | 33.36                      | 314                  | 278                     | P                       | V               |
|                                      |      | 5918.6               | 49.12               | -23.8                   | 72.92                       | 40.18                     | 32.4                          | 9.92                   | 33.38                      | 314                  | 278                     | P                       | V               |
|                                      |      | 5926.8               | 48.04               | -20.16                  | 68.2                        | 39.1                      | 32.4                          | 9.93                   | 33.39                      | 314                  | 278                     | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 5600.8               | 47.39               | -20.81                  | 68.2                        | 39.52                     | 31.6                          | 9.54                   | 33.27                      | 106                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5688.6               | 48.82               | -47.97                  | 96.79                       | 40.72                     | 31.75                         | 9.65                   | 33.3                       | 106                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5704                 | 48.84               | -57.48                  | 106.32                      | 40.66                     | 31.82                         | 9.67                   | 33.31                      | 106                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5721.6               | 48.36               | -66.09                  | 114.45                      | 40.1                      | 31.89                         | 9.69                   | 33.32                      | 106                  | 181                     | P                       | H               |
|                                      | *                                                                                           | 5795                 | 105.67              | -                       | -                           | 97.14                     | 32.09                         | 9.78                   | 33.34                      | 106                  | 181                     | P                       | H               |
|                                      | *                                                                                           | 5795                 | 98.24               | -                       | -                           | 89.71                     | 32.09                         | 9.78                   | 33.34                      | 106                  | 181                     | A                       | H               |
|                                      |                                                                                             | 5851                 | 55.78               | -64.14                  | 119.92                      | 47.09                     | 32.2                          | 9.85                   | 33.36                      | 106                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5857.4               | 52.36               | -57.77                  | 110.13                      | 43.64                     | 32.23                         | 9.85                   | 33.36                      | 106                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5907.6               | 51.77               | -29.27                  | 81.04                       | 42.84                     | 32.4                          | 9.91                   | 33.38                      | 106                  | 181                     | P                       | H               |
|                                      |                                                                                             | 5947.8               | 50.93               | -17.27                  | 68.2                        | 41.97                     | 32.4                          | 9.95                   | 33.39                      | 106                  | 181                     | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 5635.2               | 46.17               | -22.03                  | 68.2                        | 38.28                     | 31.6                          | 9.58                   | 33.29                      | 400                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5668.4               | 46.63               | -35.22                  | 81.85                       | 38.63                     | 31.67                         | 9.63                   | 33.3                       | 400                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5713.8               | 45.93               | -63.14                  | 109.07                      | 37.7                      | 31.86                         | 9.68                   | 33.31                      | 400                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5720.8               | 46.12               | -66.5                   | 112.62                      | 37.87                     | 31.88                         | 9.69                   | 33.32                      | 400                  | 23                      | P                       | V               |
|                                      | *                                                                                           | 5795                 | 96.54               | -                       | -                           | 88.01                     | 32.09                         | 9.78                   | 33.34                      | 400                  | 23                      | P                       | V               |
|                                      | *                                                                                           | 5795                 | 88.9                | -                       | -                           | 80.37                     | 32.09                         | 9.78                   | 33.34                      | 400                  | 23                      | A                       | V               |
|                                      |                                                                                             | 5853                 | 47.91               | -67.45                  | 115.36                      | 39.21                     | 32.21                         | 9.85                   | 33.36                      | 400                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5862.2               | 48.91               | -59.87                  | 108.78                      | 40.16                     | 32.25                         | 9.86                   | 33.36                      | 400                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5878.8               | 48.2                | -54.18                  | 102.38                      | 39.37                     | 32.32                         | 9.88                   | 33.37                      | 400                  | 23                      | P                       | V               |
|                                      |                                                                                             | 5931.8               | 49.23               | -18.97                  | 68.2                        | 40.29                     | 32.4                          | 9.93                   | 33.39                      | 400                  | 23                      | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |                                                                                             | 11510                | 49.61               | -24.39                  | 74                          | 54.48                     | 39.96                         | 17.47                  | 62.3                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17265                | 48.89               | -19.31                  | 68.2                        | 45.51                     | 40.36                         | 21.44                  | 58.42                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11510                | 49.47               | -24.53                  | 74                          | 54.34                     | 39.96                         | 17.47                  | 62.3                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17265                | 49.07               | -19.13                  | 68.2                        | 45.69                     | 40.36                         | 21.44                  | 58.42                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 11590                | 52.47               | -21.53                  | 74                          | 57.59                     | 39.64                         | 17.56                  | 62.32                      | 100                  | 312                     | P                       | H               |
|                                      |                                                                                             | 11590                | 44.87               | -9.13                   | 54                          | 49.99                     | 39.64                         | 17.56                  | 62.32                      | 100                  | 312                     | A                       | H               |
|                                      |                                                                                             | 17385                | 50.12               | -18.08                  | 68.2                        | 45.45                     | 41.26                         | 21.62                  | 58.21                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11590                | 54.42               | -19.58                  | 74                          | 59.54                     | 39.64                         | 17.56                  | 62.32                      | 269                  | 282                     | P                       | V               |
|                                      |                                                                                             | 11590                | 45.17               | -8.83                   | 54                          | 50.29                     | 39.64                         | 17.56                  | 62.32                      | 269                  | 282                     | A                       | V               |
|                                      |                                                                                             | 17385                | 50.43               | -17.77                  | 68.2                        | 45.76                     | 41.26                         | 21.62                  | 58.21                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Emission below 1GHz

## WIFI 802.11a (LF @ 3m)

| WIFI          | Note                                                                       | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.          |                                                                            |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>LF |                                                                            | 62.01     | 37.71      | -2.29  | 40         | 54.81    | 11.82    | 0.74   | 29.66  | 313    | 349     | Q       | H       |
|               |                                                                            | 159.98    | 31.74      | -11.76 | 43.5       | 43.44    | 16.56    | 1.29   | 29.55  | -      | -       | P       | H       |
|               |                                                                            | 462.62    | 34.95      | -11.05 | 46         | 38.09    | 23.51    | 2.42   | 29.07  | -      | -       | P       | H       |
|               |                                                                            | 664.38    | 37.64      | -8.36  | 46         | 37.06    | 26.4     | 2.87   | 28.69  | -      | -       | P       | H       |
|               |                                                                            | 905.91    | 35.82      | -10.18 | 46         | 31.11    | 29.1     | 3.79   | 28.18  | -      | -       | P       | H       |
|               |                                                                            | 977.69    | 36.99      | -17.01 | 54         | 30.47    | 30.75    | 3.84   | 28.07  | -      | -       | P       | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            | 62.01     | 35.12      | -4.88  | 40         | 52.22    | 11.82    | 0.74   | 29.66  | 100    | 73      | Q       | V       |
|               |                                                                            | 160.95    | 25.84      | -17.66 | 43.5       | 37.54    | 16.56    | 1.29   | 29.55  | -      | -       | P       | V       |
|               |                                                                            | 455.83    | 33.49      | -12.51 | 46         | 36.81    | 23.37    | 2.4    | 29.09  | -      | -       | P       | V       |
|               |                                                                            | 664.38    | 37.63      | -8.37  | 46         | 37.05    | 26.4     | 2.87   | 28.69  | -      | -       | P       | V       |
|               |                                                                            | 873.9     | 35.45      | -10.55 | 46         | 31.02    | 29.08    | 3.64   | 28.29  | -      | -       | P       | V       |
|               |                                                                            | 998.06    | 39.8       | -14.2  | 54         | 33.57    | 30.29    | 3.96   | 28.02  | -      | -       | P       | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark        | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



&lt;PIFA Antenna&gt;

## Band 4 - 5725~5850MHz

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

| WIFI Ant.                    | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|------------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 149<br>5745MHz |      | 5629.4    | 48.65      | -19.55     | 68.2       | 40.75      | 31.6           | 9.58      | 33.28         | 295     | 4         | P         | H       |
|                              |      | 5697.6    | 48.56      | -54.87     | 103.43     | 40.42      | 31.79          | 9.66      | 33.31         | 295     | 4         | P         | H       |
|                              |      | 5719      | 57.97      | -52.55     | 110.52     | 49.71      | 31.88          | 9.69      | 33.31         | 295     | 4         | P         | H       |
|                              |      | 5725      | 62.85      | -59.35     | 122.2      | 54.57      | 31.9           | 9.7       | 33.32         | 295     | 4         | P         | H       |
|                              | *    | 5745      | 106.58     | -          | -          | 98.2       | 31.98          | 9.72      | 33.32         | 295     | 4         | P         | H       |
|                              | *    | 5745      | 99.36      | -          | -          | 90.98      | 31.98          | 9.72      | 33.32         | 295     | 4         | A         | H       |
|                              |      |           |            |            |            |            |                |           |               |         |           |           | H       |
|                              |      |           |            |            |            |            |                |           |               |         |           |           | H       |
|                              |      | 5608.4    | 47.63      | -20.57     | 68.2       | 39.76      | 31.6           | 9.55      | 33.28         | 105     | 270       | P         | V       |
|                              |      | 5675.8    | 47.59      | -39.74     | 87.33      | 39.56      | 31.7           | 9.63      | 33.3          | 105     | 270       | P         | V       |
|                              |      | 5720      | 54.32      | -56.48     | 110.8      | 46.06      | 31.88          | 9.69      | 33.31         | 105     | 270       | P         | V       |
|                              |      | 5722      | 58.21      | -57.15     | 115.36     | 49.95      | 31.89          | 9.69      | 33.32         | 105     | 270       | P         | V       |
|                              | *    | 5745      | 103.09     | -          | -          | 94.71      | 31.98          | 9.72      | 33.32         | 105     | 270       | P         | V       |
|                              | *    | 5745      | 95.87      | -          | -          | 87.49      | 31.98          | 9.72      | 33.32         | 105     | 270       | A         | V       |
|                              |      |           |            |            |            |            |                |           |               |         |           |           | V       |
|                              |      |           |            |            |            |            |                |           |               |         |           |           | V       |



| WIFI<br>Ant.<br>1                     | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11a<br/>CH 157<br/>5785MHz</b> |      | 5613.6               | 47.12               | -21.08                  | 68.2                        | 39.24                     | 31.6                          | 9.56                   | 33.28                      | 286                  | 2                       | P                       | H               |
|                                       |      | 5663.2               | 47.5                | -30.5                   | 78                          | 39.53                     | 31.65                         | 9.62                   | 33.3                       | 286                  | 2                       | P                       | H               |
|                                       |      | 5707.4               | 49.49               | -57.78                  | 107.27                      | 41.3                      | 31.83                         | 9.67                   | 33.31                      | 286                  | 2                       | P                       | H               |
|                                       |      | 5720.8               | 48.22               | -64.4                   | 112.62                      | 39.97                     | 31.88                         | 9.69                   | 33.32                      | 286                  | 2                       | P                       | H               |
|                                       | *    | 5785                 | 107.25              | -                       | -                           | 98.75                     | 32.07                         | 9.77                   | 33.34                      | 286                  | 2                       | P                       | H               |
|                                       | *    | 5785                 | 100.03              | -                       | -                           | 91.53                     | 32.07                         | 9.77                   | 33.34                      | 286                  | 2                       | A                       | H               |
|                                       |      | 5854.6               | 48.49               | -63.22                  | 111.71                      | 39.78                     | 32.22                         | 9.85                   | 33.36                      | 286                  | 2                       | P                       | H               |
|                                       |      | 5870.2               | 50.21               | -56.33                  | 106.54                      | 41.43                     | 32.28                         | 9.87                   | 33.37                      | 286                  | 2                       | P                       | H               |
|                                       |      | 5904.4               | 51.22               | -32.19                  | 83.41                       | 42.3                      | 32.4                          | 9.9                    | 33.38                      | 286                  | 2                       | P                       | H               |
|                                       |      | 5941.4               | 49.33               | -18.87                  | 68.2                        | 40.37                     | 32.4                          | 9.95                   | 33.39                      | 286                  | 2                       | P                       | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      | 5621.8               | 46.4                | -21.8                   | 68.2                        | 38.51                     | 31.6                          | 9.57                   | 33.28                      | 100                  | 302                     | P                       | V               |
|                                       |      | 5674.6               | 47.38               | -39.06                  | 86.44                       | 39.35                     | 31.7                          | 9.63                   | 33.3                       | 100                  | 302                     | P                       | V               |
|                                       |      | 5712.6               | 47.94               | -60.79                  | 108.73                      | 39.72                     | 31.85                         | 9.68                   | 33.31                      | 100                  | 302                     | P                       | V               |
|                                       |      | 5721.2               | 46.69               | -66.85                  | 113.54                      | 38.44                     | 31.88                         | 9.69                   | 33.32                      | 100                  | 302                     | P                       | V               |
|                                       | *    | 5785                 | 103.1               | -                       | -                           | 94.6                      | 32.07                         | 9.77                   | 33.34                      | 100                  | 302                     | P                       | V               |
|                                       | *    | 5785                 | 95.85               | -                       | -                           | 87.35                     | 32.07                         | 9.77                   | 33.34                      | 100                  | 302                     | A                       | V               |
|                                       |      | 5850.4               | 46.62               | -74.67                  | 121.29                      | 37.93                     | 32.2                          | 9.85                   | 33.36                      | 100                  | 302                     | P                       | V               |
|                                       |      | 5864                 | 47.37               | -60.91                  | 108.28                      | 38.61                     | 32.26                         | 9.86                   | 33.36                      | 100                  | 302                     | P                       | V               |
|                                       |      | 5902                 | 49.42               | -35.76                  | 85.18                       | 40.5                      | 32.4                          | 9.9                    | 33.38                      | 100                  | 302                     | P                       | V               |
|                                       |      | 5931.4               | 48.88               | -19.32                  | 68.2                        | 39.94                     | 32.4                          | 9.93                   | 33.39                      | 100                  | 302                     | P                       | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                                                                                            | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------------------------------------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11a<br/>CH 165<br/>5825MHz</b>                                                                        | *    | 5825                 | 106.77              | -                       | -                           | 98.15                     | 32.15                         | 9.82                   | 33.35                      | 303                  | 2                       | P                       | H               |
|                                                                                                              | *    | 5825                 | 99.25               | -                       | -                           | 90.63                     | 32.15                         | 9.82                   | 33.35                      | 303                  | 2                       | A                       | H               |
|                                                                                                              |      | 5850.4               | 53.8                | -67.49                  | 121.29                      | 45.11                     | 32.2                          | 9.85                   | 33.36                      | 303                  | 2                       | P                       | H               |
|                                                                                                              |      | 5855.2               | 50.2                | -60.54                  | 110.74                      | 41.49                     | 32.22                         | 9.85                   | 33.36                      | 303                  | 2                       | P                       | H               |
|                                                                                                              |      | 5890.8               | 50                  | -43.47                  | 93.47                       | 41.12                     | 32.36                         | 9.89                   | 33.37                      | 303                  | 2                       | P                       | H               |
|                                                                                                              |      | 5940.6               | 51                  | -17.2                   | 68.2                        | 42.05                     | 32.4                          | 9.94                   | 33.39                      | 303                  | 2                       | P                       | H               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                                                                              | *    | 5825                 | 103.14              | -                       | -                           | 94.52                     | 32.15                         | 9.82                   | 33.35                      | 100                  | 234                     | P                       | V               |
|                                                                                                              | *    | 5825                 | 95.39               | -                       | -                           | 86.77                     | 32.15                         | 9.82                   | 33.35                      | 100                  | 234                     | A                       | V               |
|                                                                                                              |      | 5851                 | 49.1                | -70.82                  | 119.92                      | 40.41                     | 32.2                          | 9.85                   | 33.36                      | 100                  | 234                     | P                       | V               |
|                                                                                                              |      | 5855.6               | 48.94               | -61.69                  | 110.63                      | 40.23                     | 32.22                         | 9.85                   | 33.36                      | 100                  | 234                     | P                       | V               |
|                                                                                                              |      | 5908.4               | 48.59               | -31.86                  | 80.45                       | 39.66                     | 32.4                          | 9.91                   | 33.38                      | 100                  | 234                     | P                       | V               |
|                                                                                                              |      | 5931.6               | 48.16               | -20.04                  | 68.2                        | 39.22                     | 32.4                          | 9.93                   | 33.39                      | 100                  | 234                     | P                       | V               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b><br>1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 149<br>5745MHz |                                                                                             | 11490                | 57.68               | -16.32                  | 74                          | 62.55                     | 39.98                         | 17.46                  | 62.31                      | 124                  | 279                     | P                       | H               |
|                              |                                                                                             | 11490                | 48.06               | -5.94                   | 54                          | 52.93                     | 39.98                         | 17.46                  | 62.31                      | 124                  | 279                     | A                       | H               |
|                              |                                                                                             | 17235                | 49.47               | -18.73                  | 68.2                        | 46.32                     | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11490                | 59.26               | -14.74                  | 74                          | 64.13                     | 39.98                         | 17.46                  | 62.31                      | 310                  | 281                     | P                       | V               |
|                              |                                                                                             | 11490                | 48.84               | -5.16                   | 54                          | 53.71                     | 39.98                         | 17.46                  | 62.31                      | 310                  | 281                     | A                       | V               |
|                              |                                                                                             | 17235                | 49.25               | -18.95                  | 68.2                        | 46.1                      | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11a<br>CH 157<br>5785MHz |                                                                                             | 11570                | 58.35               | -15.65                  | 74                          | 63.4                      | 39.72                         | 17.54                  | 62.31                      | 126                  | 281                     | P                       | H               |
|                              |                                                                                             | 11570                | 47.89               | -6.11                   | 54                          | 52.94                     | 39.72                         | 17.54                  | 62.31                      | 126                  | 281                     | A                       | H               |
|                              |                                                                                             | 17355                | 50.45               | -17.75                  | 68.2                        | 46.13                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11570                | 60.15               | -13.85                  | 74                          | 65.2                      | 39.72                         | 17.54                  | 62.31                      | 301                  | 283                     | P                       | V               |
|                              |                                                                                             | 11570                | 49.65               | -4.35                   | 54                          | 54.7                      | 39.72                         | 17.54                  | 62.31                      | 301                  | 283                     | A                       | V               |
|                              |                                                                                             | 17355                | 50.19               | -18.01                  | 68.2                        | 45.87                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11a<br>CH 165<br>5825MHz |                                                                                             | 11650                | 56.94               | -17.06                  | 74                          | 62.35                     | 39.3                          | 17.62                  | 62.33                      | 119                  | 281                     | P                       | H               |
|                              |                                                                                             | 11650                | 46.91               | -7.09                   | 54                          | 52.32                     | 39.3                          | 17.62                  | 62.33                      | 119                  | 281                     | A                       | H               |
|                              |                                                                                             | 17475                | 50.82               | -17.38                  | 68.2                        | 45.4                      | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11650                | 58.71               | -15.29                  | 74                          | 64.12                     | 39.3                          | 17.62                  | 62.33                      | 303                  | 284                     | P                       | V               |
|                              |                                                                                             | 11650                | 48.26               | -5.74                   | 54                          | 53.67                     | 39.3                          | 17.62                  | 62.33                      | 303                  | 284                     | A                       | V               |
|                              |                                                                                             | 17475                | 52.22               | -15.98                  | 68.2                        | 46.8                      | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 149<br>5745MHz |      | 5628.6               | 48.88               | -19.32                  | 68.2                        | 40.98                     | 31.6                          | 9.58                   | 33.28                      | 291                  | 3                       | P                       | H               |
|                                      |      | 5693.2               | 48                  | -52.19                  | 100.19                      | 39.88                     | 31.77                         | 9.66                   | 33.31                      | 291                  | 3                       | P                       | H               |
|                                      |      | 5719.8               | 59.24               | -51.5                   | 110.74                      | 50.98                     | 31.88                         | 9.69                   | 33.31                      | 291                  | 3                       | P                       | H               |
|                                      |      | 5721.8               | 59.55               | -55.35                  | 114.9                       | 51.29                     | 31.89                         | 9.69                   | 33.32                      | 291                  | 3                       | P                       | H               |
|                                      | *    | 5745                 | 106.27              | -                       | -                           | 97.89                     | 31.98                         | 9.72                   | 33.32                      | 291                  | 3                       | P                       | H               |
|                                      | *    | 5745                 | 98.55               | -                       | -                           | 90.17                     | 31.98                         | 9.72                   | 33.32                      | 291                  | 3                       | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 5623                 | 47.77               | -20.43                  | 68.2                        | 39.88                     | 31.6                          | 9.57                   | 33.28                      | 100                  | 268                     | P                       | V               |
|                                      |      | 5685                 | 47.31               | -46.82                  | 94.13                       | 39.22                     | 31.74                         | 9.65                   | 33.3                       | 100                  | 268                     | P                       | V               |
|                                      |      | 5719.4               | 56.94               | -53.69                  | 110.63                      | 48.68                     | 31.88                         | 9.69                   | 33.31                      | 100                  | 268                     | P                       | V               |
|                                      |      | 5723.4               | 57.54               | -61.01                  | 118.55                      | 49.28                     | 31.89                         | 9.69                   | 33.32                      | 100                  | 268                     | P                       | V               |
|                                      | *    | 5745                 | 102.68              | -                       | -                           | 94.3                      | 31.98                         | 9.72                   | 33.32                      | 100                  | 268                     | P                       | V               |
|                                      | *    | 5745                 | 94.75               | -                       | -                           | 86.37                     | 31.98                         | 9.72                   | 33.32                      | 100                  | 268                     | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 157<br>5785MHz |      | 5638.2               | 47.81               | -20.39                  | 68.2                        | 39.91                     | 31.6                          | 9.59                   | 33.29                      | 288                  | 3                       | P                       | H               |
|                                      |      | 5661.6               | 47.26               | -29.55                  | 76.81                       | 39.28                     | 31.65                         | 9.62                   | 33.29                      | 288                  | 3                       | P                       | H               |
|                                      |      | 5710.8               | 47.26               | -60.97                  | 108.23                      | 39.05                     | 31.84                         | 9.68                   | 33.31                      | 288                  | 3                       | P                       | H               |
|                                      |      | 5724.4               | 46.71               | -74.12                  | 120.83                      | 38.43                     | 31.9                          | 9.7                    | 33.32                      | 288                  | 3                       | P                       | H               |
|                                      | *    | 5785                 | 106.1               | -                       | -                           | 97.6                      | 32.07                         | 9.77                   | 33.34                      | 288                  | 3                       | P                       | H               |
|                                      | *    | 5785                 | 98.91               | -                       | -                           | 90.41                     | 32.07                         | 9.77                   | 33.34                      | 288                  | 3                       | A                       | H               |
|                                      |      | 5854.6               | 49.45               | -62.26                  | 111.71                      | 40.74                     | 32.22                         | 9.85                   | 33.36                      | 288                  | 3                       | P                       | H               |
|                                      |      | 5855.6               | 50.44               | -60.19                  | 110.63                      | 41.73                     | 32.22                         | 9.85                   | 33.36                      | 288                  | 3                       | P                       | H               |
|                                      |      | 5907.6               | 50.46               | -30.58                  | 81.04                       | 41.53                     | 32.4                          | 9.91                   | 33.38                      | 288                  | 3                       | P                       | H               |
|                                      |      | 5950                 | 50.13               | -18.07                  | 68.2                        | 41.17                     | 32.4                          | 9.95                   | 33.39                      | 288                  | 3                       | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 5608.6               | 46.32               | -21.88                  | 68.2                        | 38.45                     | 31.6                          | 9.55                   | 33.28                      | 105                  | 266                     | P                       | V               |
|                                      |      | 5665.4               | 46.14               | -33.49                  | 79.63                       | 38.16                     | 31.66                         | 9.62                   | 33.3                       | 105                  | 266                     | P                       | V               |
|                                      |      | 5712.4               | 46.52               | -62.15                  | 108.67                      | 38.3                      | 31.85                         | 9.68                   | 33.31                      | 105                  | 266                     | P                       | V               |
|                                      |      | 5722.2               | 46.33               | -69.49                  | 115.82                      | 38.07                     | 31.89                         | 9.69                   | 33.32                      | 105                  | 266                     | P                       | V               |
|                                      | *    | 5785                 | 103.66              | -                       | -                           | 95.16                     | 32.07                         | 9.77                   | 33.34                      | 105                  | 266                     | P                       | V               |
|                                      | *    | 5785                 | 95.44               | -                       | -                           | 86.94                     | 32.07                         | 9.77                   | 33.34                      | 105                  | 266                     | A                       | V               |
|                                      |      | 5852                 | 48.2                | -69.44                  | 117.64                      | 39.5                      | 32.21                         | 9.85                   | 33.36                      | 105                  | 266                     | P                       | V               |
|                                      |      | 5865.8               | 48.13               | -59.64                  | 107.77                      | 39.37                     | 32.26                         | 9.86                   | 33.36                      | 105                  | 266                     | P                       | V               |
|                                      |      | 5884.8               | 49.55               | -48.37                  | 97.92                       | 40.7                      | 32.34                         | 9.88                   | 33.37                      | 105                  | 266                     | P                       | V               |
|                                      |      | 5948.4               | 48.23               | -19.97                  | 68.2                        | 39.27                     | 32.4                          | 9.95                   | 33.39                      | 105                  | 266                     | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 165<br>5825MHz | *                                                                                           | 5825                 | 105.31              | -                       | -                           | 96.69                     | 32.15                         | 9.82                   | 33.35                      | 281                  | 2                       | P                       | H               |
|                                      | *                                                                                           | 5825                 | 98.02               | -                       | -                           | 89.4                      | 32.15                         | 9.82                   | 33.35                      | 281                  | 2                       | A                       | H               |
|                                      |                                                                                             | 5850.2               | 51.21               | -70.53                  | 121.74                      | 42.52                     | 32.2                          | 9.85                   | 33.36                      | 281                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5873.8               | 50.75               | -54.79                  | 105.54                      | 41.95                     | 32.3                          | 9.87                   | 33.37                      | 281                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5909.2               | 49.41               | -30.45                  | 79.86                       | 40.48                     | 32.4                          | 9.91                   | 33.38                      | 281                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5941                 | 49.58               | -18.62                  | 68.2                        | 40.62                     | 32.4                          | 9.95                   | 33.39                      | 281                  | 2                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      | *                                                                                           | 5825                 | 101.22              | -                       | -                           | 92.6                      | 32.15                         | 9.82                   | 33.35                      | 100                  | 237                     | P                       | V               |
|                                      | *                                                                                           | 5825                 | 94                  | -                       | -                           | 85.38                     | 32.15                         | 9.82                   | 33.35                      | 100                  | 237                     | A                       | V               |
|                                      |                                                                                             | 5852.2               | 49.02               | -68.16                  | 117.18                      | 40.32                     | 32.21                         | 9.85                   | 33.36                      | 100                  | 237                     | P                       | V               |
|                                      |                                                                                             | 5868                 | 47.85               | -59.31                  | 107.16                      | 39.09                     | 32.27                         | 9.86                   | 33.37                      | 100                  | 237                     | P                       | V               |
|                                      |                                                                                             | 5898.8               | 48.34               | -39.21                  | 87.55                       | 39.42                     | 32.4                          | 9.9                    | 33.38                      | 100                  | 237                     | P                       | V               |
|                                      |                                                                                             | 5935.4               | 48.59               | -19.61                  | 68.2                        | 39.64                     | 32.4                          | 9.94                   | 33.39                      | 100                  | 237                     | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 149<br>5745MHz |                                                                                             | 11490                | 56.9                | -17.1                   | 74                          | 61.77                     | 39.98                         | 17.46                  | 62.31                      | 126                  | 282                     | P                       | H               |
|                                      |                                                                                             | 11490                | 47.76               | -6.24                   | 54                          | 52.63                     | 39.98                         | 17.46                  | 62.31                      | 126                  | 282                     | A                       | H               |
|                                      |                                                                                             | 17235                | 50.23               | -17.97                  | 68.2                        | 47.08                     | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11490                | 56.87               | -17.13                  | 74                          | 61.74                     | 39.98                         | 17.46                  | 62.31                      | 295                  | 284                     | P                       | V               |
|                                      |                                                                                             | 11490                | 47.79               | -6.21                   | 54                          | 52.66                     | 39.98                         | 17.46                  | 62.31                      | 295                  | 284                     | A                       | V               |
|                                      |                                                                                             | 17235                | 48.56               | -19.64                  | 68.2                        | 45.41                     | 40.24                         | 21.39                  | 58.48                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 157<br>5785MHz |                                                                                             | 11570                | 49.8                | -24.2                   | 74                          | 54.85                     | 39.72                         | 17.54                  | 62.31                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17355                | 49.9                | -18.3                   | 68.2                        | 45.58                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11570                | 58.34               | -15.66                  | 74                          | 63.39                     | 39.72                         | 17.54                  | 62.31                      | 302                  | 283                     | P                       | V               |
|                                      |                                                                                             | 11570                | 48.41               | -5.59                   | 54                          | 53.46                     | 39.72                         | 17.54                  | 62.31                      | 302                  | 283                     | A                       | V               |
|                                      |                                                                                             | 17355                | 50.06               | -18.14                  | 68.2                        | 45.74                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 165<br>5825MHz |                                                                                             | 11650                | 49.55               | -24.45                  | 74                          | 54.96                     | 39.3                          | 17.62                  | 62.33                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17475                | 50.98               | -17.22                  | 68.2                        | 45.56                     | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11650                | 57.15               | -16.85                  | 74                          | 62.56                     | 39.3                          | 17.62                  | 62.33                      | 311                  | 283                     | P                       | V               |
|                                      |                                                                                             | 11650                | 46.73               | -7.27                   | 54                          | 52.14                     | 39.3                          | 17.62                  | 62.33                      | 311                  | 283                     | A                       | V               |
|                                      |                                                                                             | 17475                | 51.52               | -16.68                  | 68.2                        | 46.1                      | 41.7                          | 21.76                  | 58.04                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |      | 5601.4               | 48.32               | -19.88                  | 68.2                        | 40.45                     | 31.6                          | 9.54                   | 33.27                      | 292                  | 2                       | P                       | H               |
|                                      |      | 5696.2               | 49.6                | -52.8                   | 102.4                       | 41.47                     | 31.78                         | 9.66                   | 33.31                      | 292                  | 2                       | P                       | H               |
|                                      |      | 5718.6               | 58.63               | -51.78                  | 110.41                      | 50.38                     | 31.87                         | 9.69                   | 33.31                      | 292                  | 2                       | P                       | H               |
|                                      |      | 5725                 | 59.06               | -63.14                  | 122.2                       | 50.78                     | 31.9                          | 9.7                    | 33.32                      | 292                  | 2                       | P                       | H               |
|                                      | *    | 5755                 | 102.73              | -                       | -                           | 94.32                     | 32.01                         | 9.73                   | 33.33                      | 292                  | 2                       | P                       | H               |
|                                      | *    | 5755                 | 95.83               | -                       | -                           | 87.42                     | 32.01                         | 9.73                   | 33.33                      | 292                  | 2                       | A                       | H               |
|                                      |      | 5854.2               | 48.39               | -64.23                  | 112.62                      | 39.68                     | 32.22                         | 9.85                   | 33.36                      | 292                  | 2                       | P                       | H               |
|                                      |      | 5863                 | 49.22               | -59.34                  | 108.56                      | 40.47                     | 32.25                         | 9.86                   | 33.36                      | 292                  | 2                       | P                       | H               |
|                                      |      | 5906.8               | 49.97               | -31.66                  | 81.63                       | 41.04                     | 32.4                          | 9.91                   | 33.38                      | 292                  | 2                       | P                       | H               |
|                                      |      | 5937.2               | 50.15               | -18.05                  | 68.2                        | 41.2                      | 32.4                          | 9.94                   | 33.39                      | 292                  | 2                       | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 5630.6               | 47.1                | -21.1                   | 68.2                        | 39.2                      | 31.6                          | 9.58                   | 33.28                      | 100                  | 272                     | P                       | V               |
|                                      |      | 5694.4               | 48.86               | -52.21                  | 101.07                      | 40.73                     | 31.78                         | 9.66                   | 33.31                      | 100                  | 272                     | P                       | V               |
|                                      |      | 5719.4               | 57.51               | -53.12                  | 110.63                      | 49.25                     | 31.88                         | 9.69                   | 33.31                      | 100                  | 272                     | P                       | V               |
|                                      |      | 5722.8               | 56.41               | -60.77                  | 117.18                      | 48.15                     | 31.89                         | 9.69                   | 33.32                      | 100                  | 272                     | P                       | V               |
|                                      | *    | 5755                 | 99.44               | -                       | -                           | 91.03                     | 32.01                         | 9.73                   | 33.33                      | 100                  | 272                     | P                       | V               |
|                                      | *    | 5755                 | 93.05               | -                       | -                           | 84.64                     | 32.01                         | 9.73                   | 33.33                      | 100                  | 272                     | A                       | V               |
|                                      |      | 5853.8               | 47.56               | -65.98                  | 113.54                      | 38.85                     | 32.22                         | 9.85                   | 33.36                      | 100                  | 272                     | P                       | V               |
|                                      |      | 5862.4               | 48.63               | -60.1                   | 108.73                      | 39.88                     | 32.25                         | 9.86                   | 33.36                      | 100                  | 272                     | P                       | V               |
|                                      |      | 5892.4               | 48.54               | -43.75                  | 92.29                       | 39.65                     | 32.37                         | 9.89                   | 33.37                      | 100                  | 272                     | P                       | V               |
|                                      |      | 5929                 | 47.44               | -20.76                  | 68.2                        | 38.5                      | 32.4                          | 9.93                   | 33.39                      | 100                  | 272                     | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 5637.8               | 47.1                | -21.1                   | 68.2                        | 39.2                      | 31.6                          | 9.59                   | 33.29                      | 274                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5676.2               | 48.86               | -38.77                  | 87.63                       | 40.82                     | 31.7                          | 9.64                   | 33.3                       | 274                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5718.8               | 48                  | -62.46                  | 110.46                      | 39.74                     | 31.88                         | 9.69                   | 33.31                      | 274                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5720.8               | 47.23               | -65.39                  | 112.62                      | 38.98                     | 31.88                         | 9.69                   | 33.32                      | 274                  | 2                       | P                       | H               |
|                                      | *                                                                                           | 5795                 | 102.94              | -                       | -                           | 94.41                     | 32.09                         | 9.78                   | 33.34                      | 274                  | 2                       | P                       | H               |
|                                      | *                                                                                           | 5795                 | 95.57               | -                       | -                           | 87.04                     | 32.09                         | 9.78                   | 33.34                      | 274                  | 2                       | A                       | H               |
|                                      |                                                                                             | 5851.4               | 48.14               | -70.87                  | 119.01                      | 39.44                     | 32.21                         | 9.85                   | 33.36                      | 274                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5858                 | 50.16               | -59.8                   | 109.96                      | 41.44                     | 32.23                         | 9.85                   | 33.36                      | 274                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5911.4               | 50.74               | -27.49                  | 78.23                       | 41.81                     | 32.4                          | 9.91                   | 33.38                      | 274                  | 2                       | P                       | H               |
|                                      |                                                                                             | 5929.2               | 51.05               | -17.15                  | 68.2                        | 42.11                     | 32.4                          | 9.93                   | 33.39                      | 274                  | 2                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 5624.6               | 47.2                | -21                     | 68.2                        | 39.31                     | 31.6                          | 9.57                   | 33.28                      | 100                  | 271                     | P                       | V               |
|                                      |                                                                                             | 5686.4               | 47.34               | -47.83                  | 95.17                       | 39.24                     | 31.75                         | 9.65                   | 33.3                       | 100                  | 271                     | P                       | V               |
|                                      |                                                                                             | 5701.4               | 48.33               | -57.26                  | 105.59                      | 40.16                     | 31.81                         | 9.67                   | 33.31                      | 100                  | 271                     | P                       | V               |
|                                      |                                                                                             | 5723.2               | 46.43               | -71.67                  | 118.1                       | 38.17                     | 31.89                         | 9.69                   | 33.32                      | 100                  | 271                     | P                       | V               |
|                                      | *                                                                                           | 5795                 | 99.25               | -                       | -                           | 90.72                     | 32.09                         | 9.78                   | 33.34                      | 100                  | 271                     | P                       | V               |
|                                      | *                                                                                           | 5795                 | 91.49               | -                       | -                           | 82.96                     | 32.09                         | 9.78                   | 33.34                      | 100                  | 271                     | A                       | V               |
|                                      |                                                                                             | 5855                 | 47.61               | -63.19                  | 110.8                       | 38.9                      | 32.22                         | 9.85                   | 33.36                      | 100                  | 271                     | P                       | V               |
|                                      |                                                                                             | 5860                 | 48.36               | -61.04                  | 109.4                       | 39.62                     | 32.24                         | 9.86                   | 33.36                      | 100                  | 271                     | P                       | V               |
|                                      |                                                                                             | 5891.6               | 48.96               | -43.92                  | 92.88                       | 40.07                     | 32.37                         | 9.89                   | 33.37                      | 100                  | 271                     | P                       | V               |
|                                      |                                                                                             | 5931.4               | 48.84               | -19.36                  | 68.2                        | 39.9                      | 32.4                          | 9.93                   | 33.39                      | 100                  | 271                     | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |                                                                                             | 11510                | 49.87               | -24.13                  | 74                          | 54.74                     | 39.96                         | 17.47                  | 62.3                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17265                | 49.68               | -18.52                  | 68.2                        | 46.3                      | 40.36                         | 21.44                  | 58.42                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11510                | 54.75               | -19.25                  | 74                          | 59.62                     | 39.96                         | 17.47                  | 62.3                       | 299                  | 283                     | P                       | V               |
|                                      |                                                                                             | 11510                | 46.02               | -7.98                   | 54                          | 50.89                     | 39.96                         | 17.47                  | 62.3                       | 299                  | 283                     | A                       | V               |
|                                      |                                                                                             | 17265                | 49.15               | -19.05                  | 68.2                        | 45.77                     | 40.36                         | 21.44                  | 58.42                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 11590                | 48.87               | -25.13                  | 74                          | 53.99                     | 39.64                         | 17.56                  | 62.32                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17385                | 51.21               | -16.99                  | 68.2                        | 46.54                     | 41.26                         | 21.62                  | 58.21                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11590                | 55.76               | -18.24                  | 74                          | 60.88                     | 39.64                         | 17.56                  | 62.32                      | 307                  | 283                     | P                       | V               |
|                                      |                                                                                             | 11590                | 45.98               | -8.02                   | 54                          | 51.1                      | 39.64                         | 17.56                  | 62.32                      | 307                  | 283                     | A                       | V               |
|                                      |                                                                                             | 17385                | 49.96               | -18.24                  | 68.2                        | 45.29                     | 41.26                         | 21.62                  | 58.21                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Emission below 1GHz

## WIFI 802.11a (LF @ 3m)

| WIFI          | Note                                                                       | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.          |                                                                            |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>LF |                                                                            | 62.98     | 34.96      | -5.04  | 40         | 51.99    | 11.89    | 0.75   | 29.67  | 298    | 137     | Q       | H       |
|               |                                                                            | 150.28    | 35.73      | -7.77  | 43.5       | 46.81    | 17.24    | 1.26   | 29.58  | 203    | 131     | Q       | H       |
|               |                                                                            | 408.3     | 39.01      | -6.99  | 46         | 43.66    | 22.38    | 2.15   | 29.18  | -      | -       | P       | H       |
|               |                                                                            | 564.47    | 39.26      | -6.74  | 46         | 39.09    | 26.4     | 2.62   | 28.85  | -      | -       | P       | H       |
|               |                                                                            | 666.32    | 37.74      | -8.26  | 46         | 37.13    | 26.41    | 2.88   | 28.68  | -      | -       | P       | H       |
|               |                                                                            | 886.51    | 39.11      | -6.89  | 46         | 34.66    | 28.97    | 3.72   | 28.24  | -      | -       | P       | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            | 62.98     | 35.3       | -4.7   | 40         | 52.33    | 11.89    | 0.75   | 29.67  | 100    | 78      | Q       | V       |
|               |                                                                            | 150.28    | 31.48      | -12.02 | 43.5       | 42.56    | 17.24    | 1.26   | 29.58  | -      | -       | P       | V       |
|               |                                                                            | 312.27    | 31.16      | -14.84 | 46         | 39.14    | 19.43    | 1.87   | 29.28  | -      | -       | P       | V       |
|               |                                                                            | 480.08    | 38.39      | -7.61  | 46         | 41.17    | 23.8     | 2.45   | 29.03  | -      | -       | P       | V       |
|               |                                                                            | 666.32    | 38.02      | -7.98  | 46         | 37.41    | 26.41    | 2.88   | 28.68  | -      | -       | P       | V       |
|               |                                                                            | 975.75    | 38.19      | -15.81 | 54         | 31.65    | 30.79    | 3.83   | 28.08  | -      | -       | P       | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark        | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



&lt;Sample 3&gt;

&lt;Dipole Antenna&gt;

## Band 4 - 5725~5850MHz

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

| WIFI Ant.                    | Note                                                         | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preampl Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|------------------------------|--------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|----------------|---------|-----------|-----------|---------|
| 1                            |                                                              | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )         | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 157<br>5785MHz |                                                              | 5618      | 47.25      | -20.95     | 68.2       | 39.37      | 31.6           | 9.56      | 33.28          | 100     | 185       | P         | H       |
|                              |                                                              | 5658      | 48.76      | -25.38     | 74.14      | 40.81      | 31.63          | 9.61      | 33.29          | 100     | 185       | P         | H       |
|                              |                                                              | 5719      | 47.39      | -63.13     | 110.52     | 39.13      | 31.88          | 9.69      | 33.31          | 100     | 185       | P         | H       |
|                              |                                                              | 5721.2    | 48.47      | -65.07     | 113.54     | 40.22      | 31.88          | 9.69      | 33.32          | 100     | 185       | P         | H       |
|                              | *                                                            | 5785      | 106.01     | -          | -          | 97.51      | 32.07          | 9.77      | 33.34          | 100     | 185       | P         | H       |
|                              | *                                                            | 5785      | 98.2       | -          | -          | 89.7       | 32.07          | 9.77      | 33.34          | 100     | 185       | A         | H       |
|                              |                                                              | 5851.2    | 47.42      | -72.04     | 119.46     | 38.73      | 32.2           | 9.85      | 33.36          | 100     | 185       | P         | H       |
|                              |                                                              | 5864.4    | 49.01      | -59.16     | 108.17     | 40.25      | 32.26          | 9.86      | 33.36          | 100     | 185       | P         | H       |
|                              |                                                              | 5898.4    | 52.75      | -35.1      | 87.85      | 43.84      | 32.39          | 9.9       | 33.38          | 100     | 185       | P         | H       |
|                              |                                                              | 5942      | 50.77      | -17.43     | 68.2       | 41.81      | 32.4           | 9.95      | 33.39          | 100     | 185       | P         | H       |
|                              |                                                              |           |            |            |            |            |                |           |                |         |           |           | H       |
|                              |                                                              |           |            |            |            |            |                |           |                |         |           |           | H       |
|                              |                                                              | 5613.6    | 47.3       | -20.9      | 68.2       | 39.42      | 31.6           | 9.56      | 33.28          | 400     | 326       | P         | V       |
|                              |                                                              | 5667.2    | 46.1       | -34.86     | 80.96      | 38.11      | 31.67          | 9.62      | 33.3           | 400     | 326       | P         | V       |
|                              |                                                              | 5702.8    | 47.49      | -58.5      | 105.99     | 39.32      | 31.81          | 9.67      | 33.31          | 400     | 326       | P         | V       |
|                              |                                                              | 5725      | 45.77      | -76.43     | 122.2      | 37.49      | 31.9           | 9.7       | 33.32          | 400     | 326       | P         | V       |
|                              | *                                                            | 5785      | 95.41      | -          | -          | 86.91      | 32.07          | 9.77      | 33.34          | 400     | 326       | P         | V       |
|                              | *                                                            | 5785      | 87.69      | -          | -          | 79.19      | 32.07          | 9.77      | 33.34          | 400     | 326       | A         | V       |
|                              |                                                              | 5852.2    | 47.34      | -69.84     | 117.18     | 38.64      | 32.21          | 9.85      | 33.36          | 400     | 326       | P         | V       |
|                              |                                                              | 5860      | 47.26      | -62.14     | 109.4      | 38.52      | 32.24          | 9.86      | 33.36          | 400     | 326       | P         | V       |
|                              |                                                              | 5884.2    | 48.04      | -50.33     | 98.37      | 39.19      | 32.34          | 9.88      | 33.37          | 400     | 326       | P         | V       |
|                              |                                                              | 5929.8    | 48.87      | -19.33     | 68.2       | 39.93      | 32.4           | 9.93      | 33.39          | 400     | 326       | P         | V       |
|                              |                                                              |           |            |            |            |            |                |           |                |         |           |           | V       |
|                              |                                                              |           |            |            |            |            |                |           |                |         |           |           | V       |
| Remark                       | 1. No other spurious found.                                  |           |            |            |            |            |                |           |                |         |           |           |         |
|                              | 2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |                |         |           |           |         |

**Band 4 5725~5850MHz****WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                     | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11a<br/>CH 157<br/>5785MHz</b> |                                                                                             | 11570                | 49.74               | -24.26                  | 74                          | 54.79                     | 39.72                         | 17.54                  | 62.31                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 17355                | 51.73               | -16.47                  | 68.2                        | 47.41                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 11570                | 53.79               | -20.21                  | 74                          | 58.84                     | 39.72                         | 17.54                  | 62.31                      | 312                  | 171                     | P                       | V               |
|                                       |                                                                                             | 11570                | 43.27               | -10.73                  | 54                          | 48.32                     | 39.72                         | 17.54                  | 62.31                      | 312                  | 171                     | A                       | V               |
|                                       |                                                                                             | 17355                | 50.43               | -17.77                  | 68.2                        | 46.11                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |

## Emission below 1GHz

## WIFI 802.11a (LF @ 3m)

| WIFI              | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.              |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                 |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br><br>LF |                                                                            | 62.01     | 38.59      | -1.41  | 40         | 55.69  | 11.82    | 0.74   | 29.66  | 305    | 1       | Q     | H     |
|                   |                                                                            | 158.04    | 35.36      | -8.14  | 43.5       | 46.91  | 16.73    | 1.28   | 29.56  | -      | -       | P     | H     |
|                   |                                                                            | 419.94    | 34.56      | -11.44 | 46         | 38.59  | 22.91    | 2.22   | 29.16  | -      | -       | P     | H     |
|                   |                                                                            | 666.32    | 37.33      | -8.67  | 46         | 36.72  | 26.41    | 2.88   | 28.68  | -      | -       | P     | H     |
|                   |                                                                            | 742.95    | 39.59      | -6.41  | 46         | 36.75  | 28.25    | 3.19   | 28.6   | -      | -       | P     | H     |
|                   |                                                                            | 890.39    | 37.69      | -8.31  | 46         | 33.26  | 28.91    | 3.75   | 28.23  | -      | -       | P     | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            | 62.01     | 36.93      | -3.07  | 40         | 54.03  | 11.82    | 0.74   | 29.66  | 100    | 84      | Q     | V     |
|                   |                                                                            | 149.31    | 26.05      | -17.45 | 43.5       | 37.14  | 17.24    | 1.25   | 29.58  | -      | -       | P     | V     |
|                   |                                                                            | 457.77    | 33.13      | -12.87 | 46         | 36.4   | 23.41    | 2.4    | 29.08  | -      | -       | P     | V     |
|                   |                                                                            | 666.32    | 38.71      | -7.29  | 46         | 38.1   | 26.41    | 2.88   | 28.68  | -      | -       | P     | V     |
|                   |                                                                            | 733.25    | 36.22      | -9.78  | 46         | 33.75  | 27.93    | 3.13   | 28.59  | -      | -       | P     | V     |
|                   |                                                                            | 901.06    | 37.93      | -8.07  | 46         | 33.25  | 29.06    | 3.81   | 28.19  | -      | -       | P     | V     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark            | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



&lt;PIFA Antenna&gt;

## Band 4 - 5725~5850MHz

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

| WIFI Ant.                    | Note                                                         | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|------------------------------|--------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                            |                                                              | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 157<br>5785MHz |                                                              | 5638.2    | 46.89      | -21.31     | 68.2       | 38.99      | 31.6           | 9.59      | 33.29         | 107     | 234       | P         | H       |
|                              |                                                              | 5697.4    | 48.8       | -54.48     | 103.28     | 40.66      | 31.79          | 9.66      | 33.31         | 107     | 234       | P         | H       |
|                              |                                                              | 5713      | 47.52      | -61.32     | 108.84     | 39.3       | 31.85          | 9.68      | 33.31         | 107     | 234       | P         | H       |
|                              |                                                              | 5722.6    | 48.63      | -68.1      | 116.73     | 40.37      | 31.89          | 9.69      | 33.32         | 107     | 234       | P         | H       |
|                              | *                                                            | 5785      | 104.94     | -          | -          | 96.44      | 32.07          | 9.77      | 33.34         | 107     | 234       | P         | H       |
|                              | *                                                            | 5785      | 96.88      | -          | -          | 88.38      | 32.07          | 9.77      | 33.34         | 107     | 234       | A         | H       |
|                              |                                                              | 5850.2    | 48.7       | -73.04     | 121.74     | 40.01      | 32.2           | 9.85      | 33.36         | 107     | 234       | P         | H       |
|                              |                                                              | 5856.2    | 48.93      | -61.53     | 110.46     | 40.22      | 32.22          | 9.85      | 33.36         | 107     | 234       | P         | H       |
|                              |                                                              | 5885.2    | 48.99      | -48.64     | 97.63      | 40.14      | 32.34          | 9.88      | 33.37         | 107     | 234       | P         | H       |
|                              |                                                              | 5932.8    | 49.29      | -18.91     | 68.2       | 40.34      | 32.4           | 9.94      | 33.39         | 107     | 234       | P         | H       |
|                              |                                                              |           |            |            |            |            |                |           |               |         |           |           | H       |
|                              |                                                              |           |            |            |            |            |                |           |               |         |           |           | H       |
|                              |                                                              | 5601.8    | 46.49      | -21.71     | 68.2       | 38.62      | 31.6           | 9.54      | 33.27         | 400     | 296       | P         | V       |
|                              |                                                              | 5668      | 47.4       | -34.16     | 81.56      | 39.41      | 31.67          | 9.62      | 33.3          | 400     | 296       | P         | V       |
|                              |                                                              | 5717      | 47.47      | -62.49     | 109.96     | 39.22      | 31.87          | 9.69      | 33.31         | 400     | 296       | P         | V       |
|                              |                                                              | 5721.4    | 44.72      | -69.27     | 113.99     | 36.46      | 31.89          | 9.69      | 33.32         | 400     | 296       | P         | V       |
|                              | *                                                            | 5785      | 100.93     | -          | -          | 92.43      | 32.07          | 9.77      | 33.34         | 400     | 296       | P         | V       |
|                              | *                                                            | 5785      | 92.99      | -          | -          | 84.49      | 32.07          | 9.77      | 33.34         | 400     | 296       | A         | V       |
|                              |                                                              | 5850.2    | 46.88      | -74.86     | 121.74     | 38.19      | 32.2           | 9.85      | 33.36         | 400     | 296       | P         | V       |
|                              |                                                              | 5872      | 49.41      | -56.63     | 106.04     | 40.62      | 32.29          | 9.87      | 33.37         | 400     | 296       | P         | V       |
|                              |                                                              | 5910.4    | 49.96      | -29.01     | 78.97      | 41.03      | 32.4           | 9.91      | 33.38         | 400     | 296       | P         | V       |
|                              |                                                              | 5933.2    | 49.59      | -18.61     | 68.2       | 40.64      | 32.4           | 9.94      | 33.39         | 400     | 296       | P         | V       |
|                              |                                                              |           |            |            |            |            |                |           |               |         |           |           | V       |
|                              |                                                              |           |            |            |            |            |                |           |               |         |           |           | V       |
| Remark                       | 1. No other spurious found.                                  |           |            |            |            |            |                |           |               |         |           |           |         |
|                              | 2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |               |         |           |           |         |

**Band 4 5725~5850MHz****WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                     | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11a<br/>CH 157<br/>5785MHz</b> |                                                                                             | 11570                | 48.64               | -25.36                  | 74                          | 53.69                     | 39.72                         | 17.54                  | 62.31                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 17355                | 50.53               | -17.67                  | 68.2                        | 46.21                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 11570                | 49.31               | -24.69                  | 74                          | 54.36                     | 39.72                         | 17.54                  | 62.31                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 17355                | 50.84               | -17.36                  | 68.2                        | 46.52                     | 41                            | 21.58                  | 58.26                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |

## Emission below 1GHz

## WIFI 802.11a (LF @ 3m)

| WIFI              | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.              |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                 |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br><br>LF |                                                                            | 61.04     | 38.11      | -1.89  | 40         | 55.21  | 11.82    | 0.74   | 29.66  | 301    | 3       | Q     | H     |
|                   |                                                                            | 211.39    | 35.88      | -7.62  | 43.5       | 48.71  | 15.1     | 1.55   | 29.48  | -      | -       | P     | H     |
|                   |                                                                            | 380.17    | 36.79      | -9.21  | 46         | 42.59  | 21.35    | 2.07   | 29.22  | -      | -       | P     | H     |
|                   |                                                                            | 666.32    | 35.34      | -10.66 | 46         | 34.73  | 26.41    | 2.88   | 28.68  | -      | -       | P     | H     |
|                   |                                                                            | 892.33    | 36.2       | -9.8   | 46         | 31.73  | 28.93    | 3.76   | 28.22  | -      | -       | P     | H     |
|                   |                                                                            | 979.63    | 36.97      | -17.03 | 54         | 30.48  | 30.71    | 3.85   | 28.07  | -      | -       | P     | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                   |                                                                            | 61.04     | 34.32      | -5.68  | 40         | 51.42  | 11.82    | 0.74   | 29.66  | 100    | 78      | Q     | V     |
|                   |                                                                            | 147.37    | 28.2       | -15.3  | 43.5       | 39.29  | 17.25    | 1.25   | 29.59  | -      | -       | P     | V     |
|                   |                                                                            | 371.44    | 28.45      | -17.55 | 46         | 34.59  | 21.04    | 2.05   | 29.23  | -      | -       | P     | V     |
|                   |                                                                            | 459.71    | 34.57      | -11.43 | 46         | 37.8   | 23.44    | 2.41   | 29.08  | -      | -       | P     | V     |
|                   |                                                                            | 734.22    | 39.36      | -6.64  | 46         | 36.85  | 27.97    | 3.13   | 28.59  | -      | -       | P     | V     |
|                   |                                                                            | 995.15    | 44.64      | -9.36  | 54         | 38.4   | 30.33    | 3.94   | 28.03  | -      | -       | P     | V     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                   |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark            | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



**Note symbol**

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



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

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. 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> | Jack Cheng, Lance Chiang and Chuan Chu | <b>Temperature :</b>       | 22.3~26.4°C |
|                        |                                        | <b>Relative Humidity :</b> | 58~66%      |

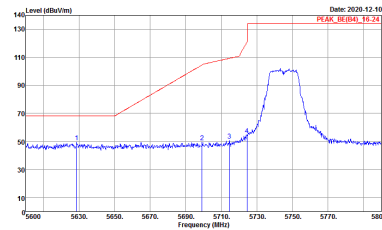
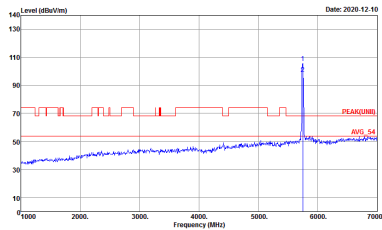
### Note symbol

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

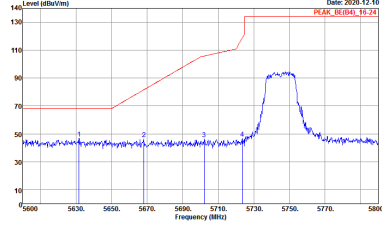
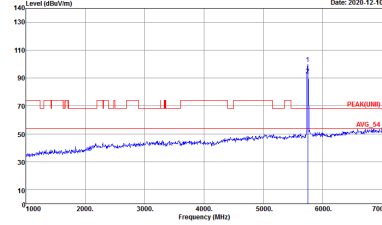


&lt;Sample 1&gt;

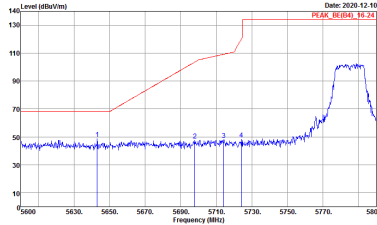
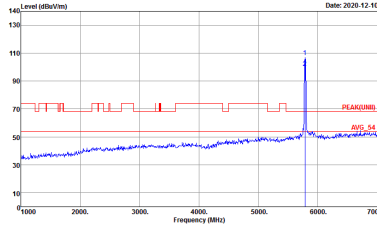
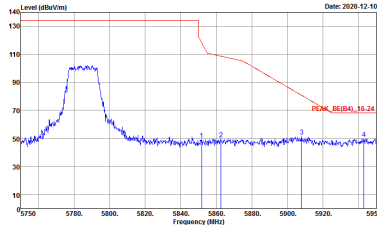
Band 4 - 5725~5850MHz  
WIFI 802.11a (Band Edge @ 3m)

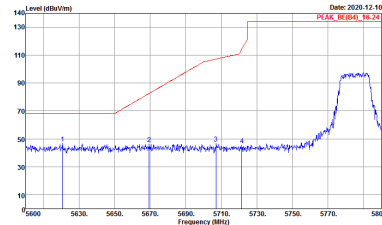
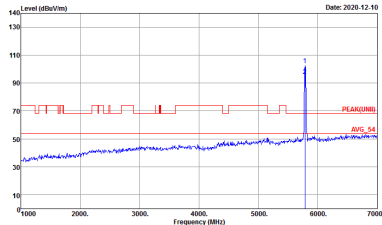
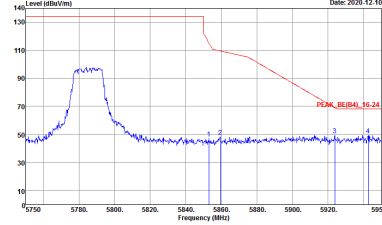
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH149 5745MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_8E(B4)_16-24 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SW1:Auto</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SW1:Auto</p> |



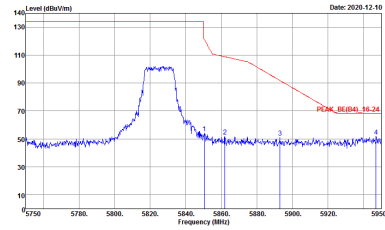
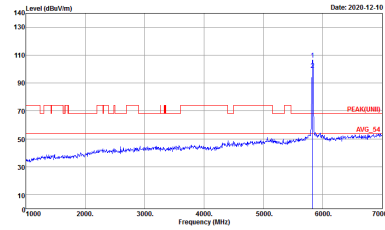
|      |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                              |                                                                                                                                                                                                                           |
| ANT  | 802.11a CH149 5745MHz                                                                                                                                                                                                           |                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |



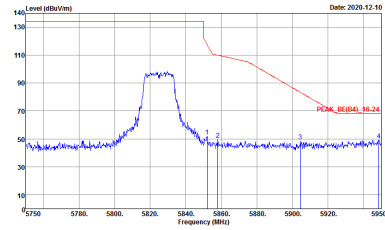
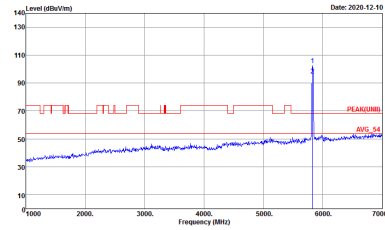
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                         |                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                         |

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                     |



|      |                                                                                                                                                                                                                          |                                                                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                    |
| ANT  | 802.11a CH165 5825MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH12-4Y<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH12-4Y<br/>Condition : PEAK(FUND) 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |



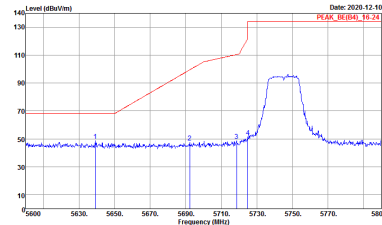
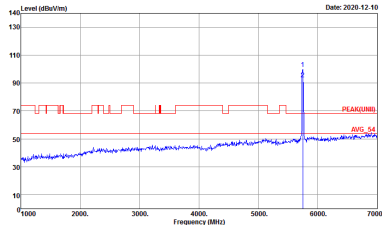
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                              |                                                                                                                                                                                                                                 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH165 5825MHz                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(FUND)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |

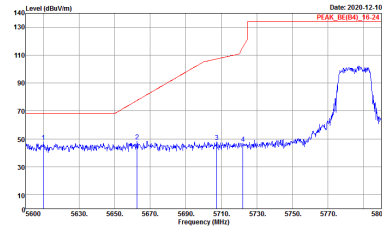
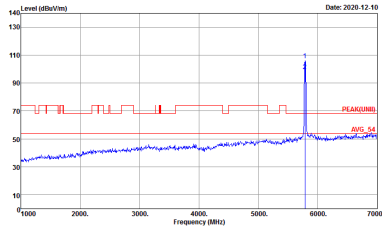
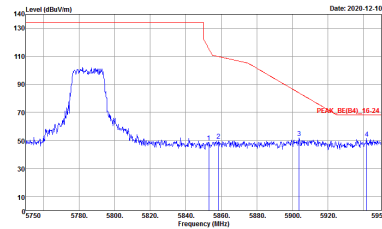


Band 4 5725~5850MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

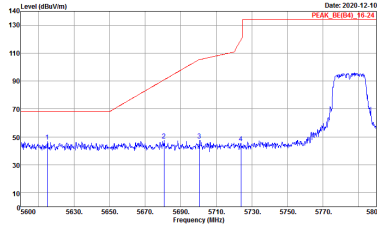
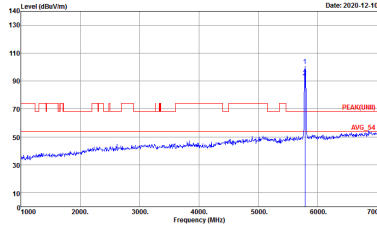
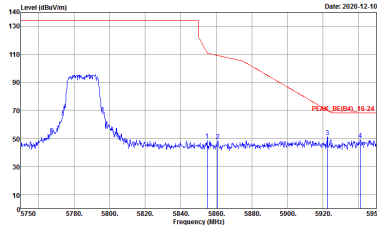
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                     |                                                                                                                                 |
|------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH149 5745MHz                                                                                                             |                                                                                                                                 |
| 1    | Horizontal                                                                                                                             | Fundamental                                                                                                                     |
| Peak | <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |



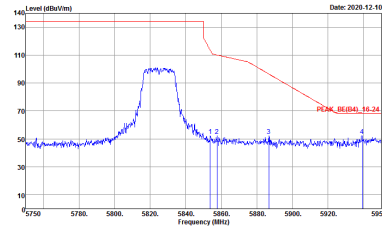
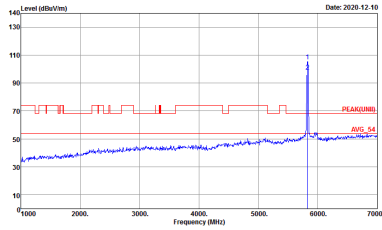
|      |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                   |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                                   |
| ANT  | 802.11n HT20 CH149 5745MHz                                                                                                                                                                                                       |                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(149)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_UN(149)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |

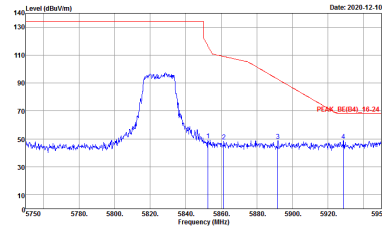
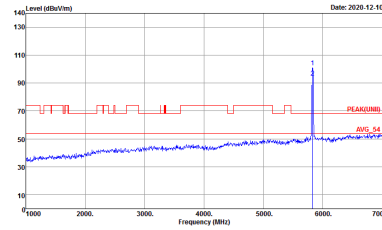
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH157 5785MHz                                                                                                                                                                                               |                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                       |



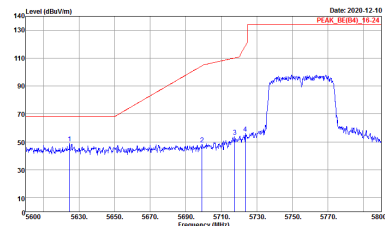
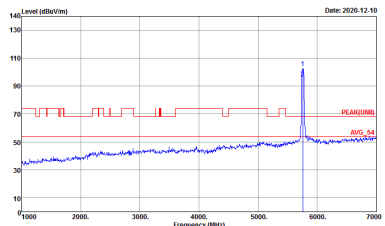
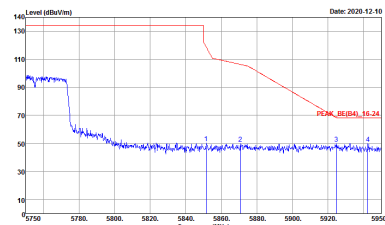
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH157 5785MHz                                                                                                                                                                                             |                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                            |

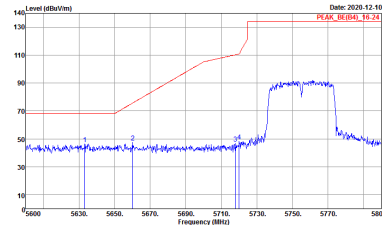
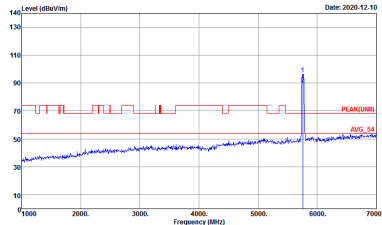
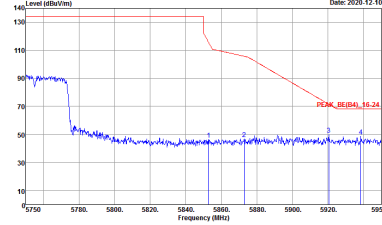


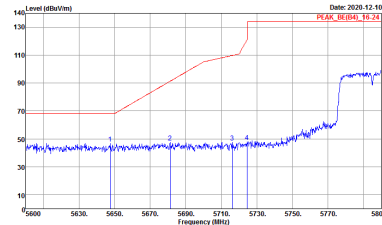
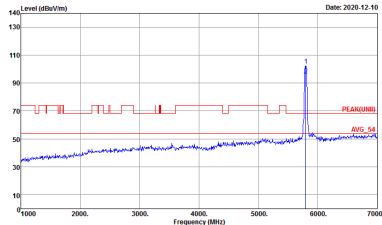
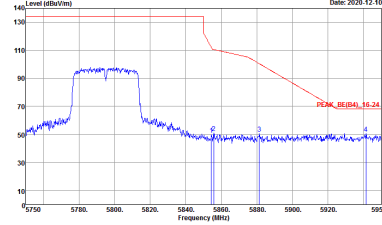
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                             |                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH12-4Y<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH12-4Y<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |

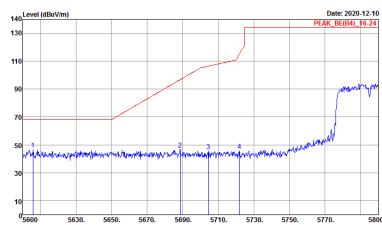
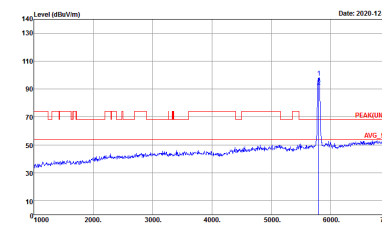
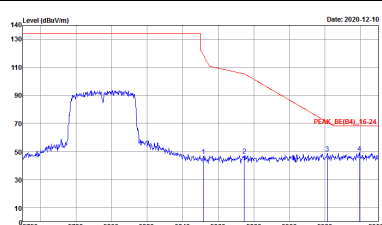
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                    |                                                                                                                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                            |                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH12-4NY<br/>Condition : PEAK(FUND)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |

**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                         |                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH151 5755MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH12-HY<br/> Condition : PEAK_BE(B4)_15-24 3m HORN_9120D_1328 HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/> Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/> Condition : PEAK_BE(B4)_15-24 3m HORN_9120D_1328 HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank                                                                                                                                                                                                         |

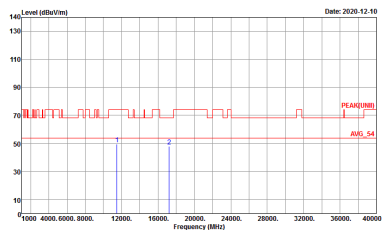
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                 |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH151 5755MHz                                                                                                                                                                                             |                                                                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK_UNI(B) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                      |

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH159 5795MHz                                                                                                                                                                                               |                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                       |

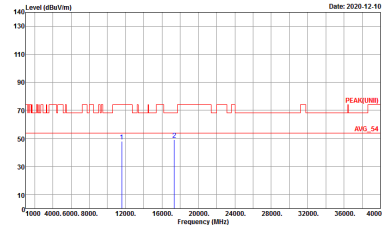
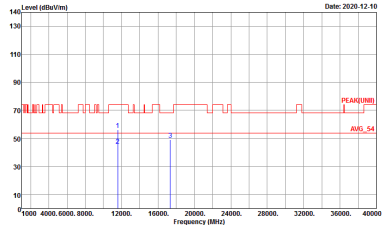
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH159 5795MHz                                                                                                                                                                                             |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                     |



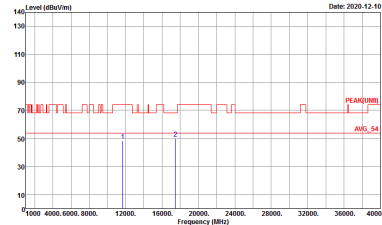
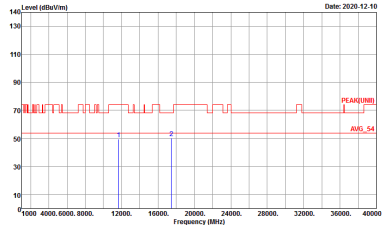
**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH149 5745MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</p> |



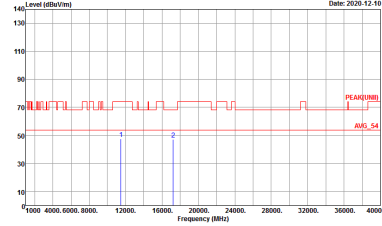
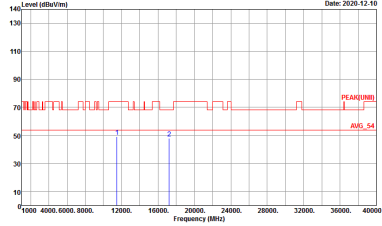
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH157 5785MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</p> |



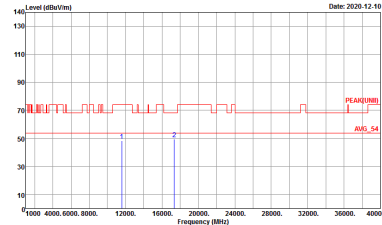
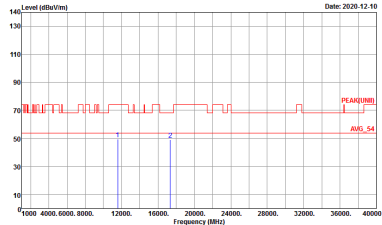
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH165 5825MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</p> |



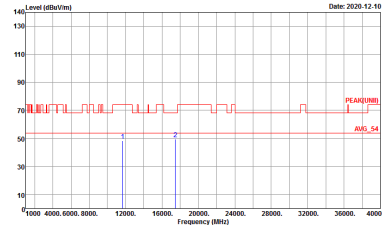
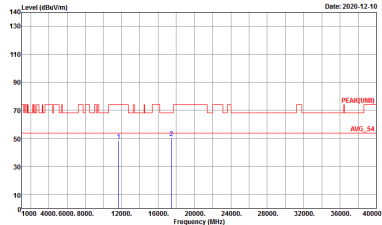
Band 4 5725~5850MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                   |                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH149 5745MHz                                                                                                                                          |                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                          | Vertical                                                                                                                                                           |
| Peak<br>Avg. |  <p>Site : 03CH12-14Y<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-14Y<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |

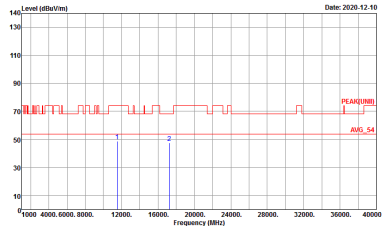


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH157 5785MHz                                                                                                                                         |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |

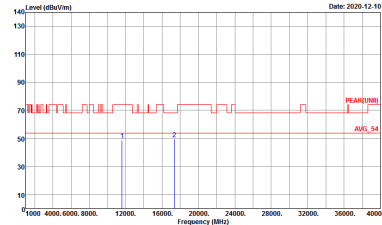
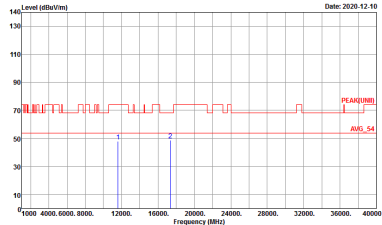


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH165 5825MHz                                                                                                                                         |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</p> |

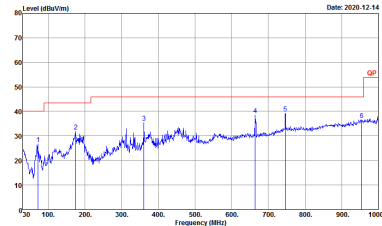
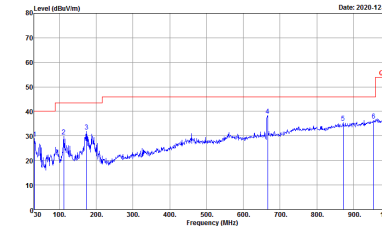
**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                    |                                                                                                                                                                     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH151 5755MHz                                                                                                                                           |                                                                                                                                                                     |
| 1            | Horizontal                                                                                                                                                           | Vertical                                                                                                                                                            |
| Peak<br>Avg. |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |



| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH159 5795MHz                                                                                                                                         |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_9120D_1328 VERTICAL</p> |

**Emission below 1GHz**  
**5GHz WIFI 802.11a (LF)**

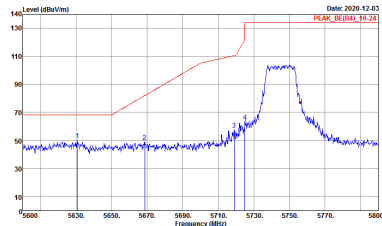
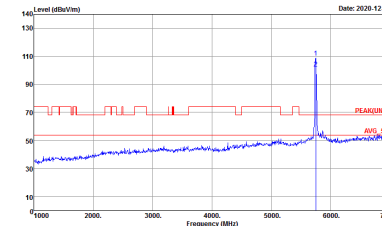
| WIFI         | 5GHz WIFI                                                                                                                                                    |                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a LF                                                                                                                                                   |                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                    |
| QP /<br>Peak |  <p>Site : 03CH12-HY<br/>Condition : QP 3m B1LO6_6111D_37059 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : QP 3m B1LO6_6111D_37059 VERTICAL</p> |



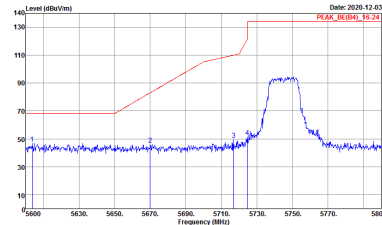
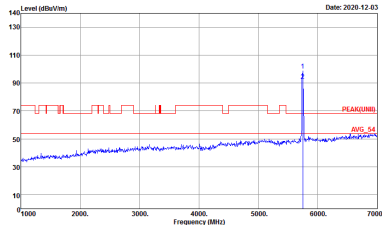
&lt;Sample 2&gt;

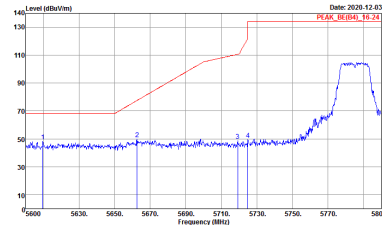
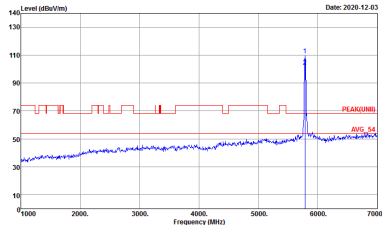
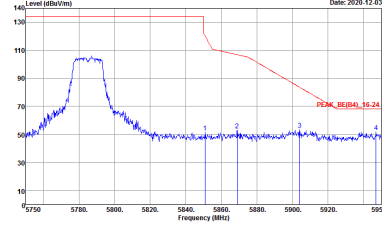
&lt;Dipole Antenna&gt;

**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

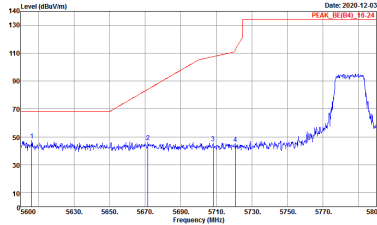
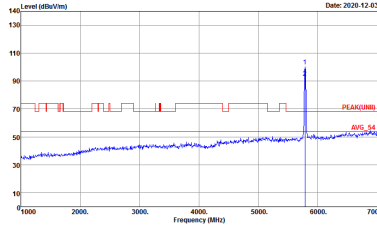
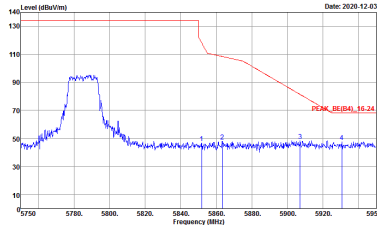
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                            |                                                                                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH149 5745MHz                                                                                                                                                                                                         |                                                                                                                                                                                                                         |
| 1    | Horizontal                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                             |
| Peak |  <p>Site<br/>Condition : 03CH12-11Y<br/>: PEAK_RE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto</p> |  <p>Site<br/>Condition : 03CH12-11Y<br/>: PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto</p> |



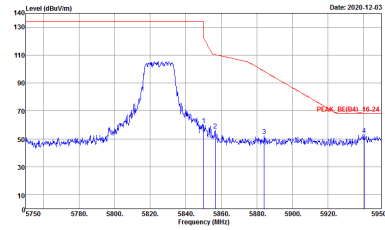
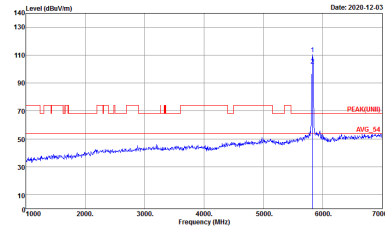
|      |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                                |
| ANT  | 802.11a CH149 5745MHz                                                                                                                                                                                                            |                                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(149)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(149)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                         |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                         |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                             |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                              |

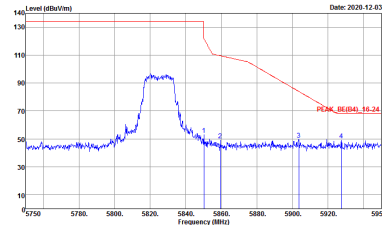
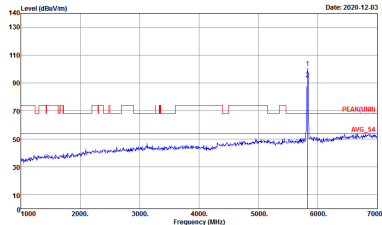


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                     |



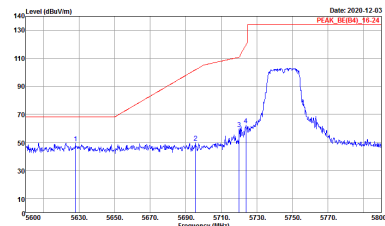
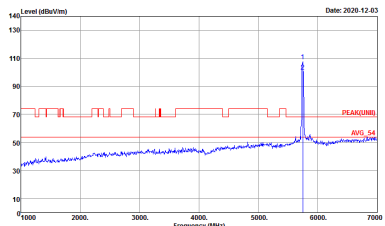
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH165 5825MHz                                                                                                                                                                                                              |                                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-4Y<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4Y<br/>Condition : PEAK(FUND)_16-24 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |



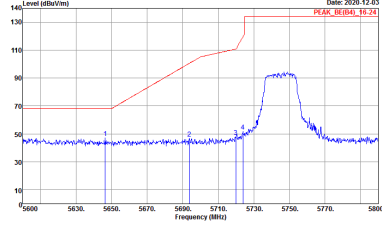
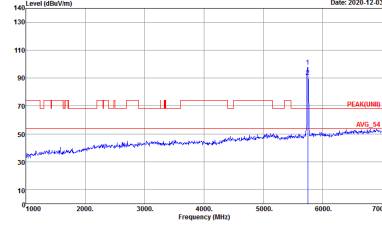
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                |                                                                                                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH165 5825MHz                                                                                                                                                                                                             |                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(FUND)_16-24 3m HORN_9120D_1328 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |



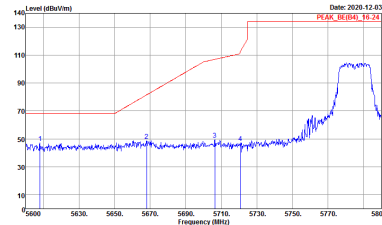
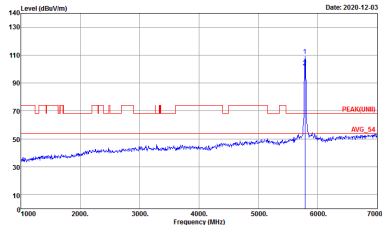
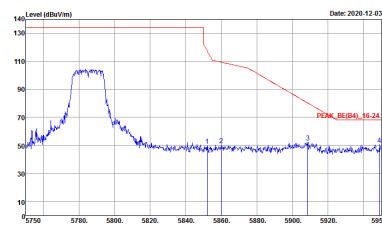
Band 4 5725~5850MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH149 5745MHz                                                                                                                                                                                               |                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p> |

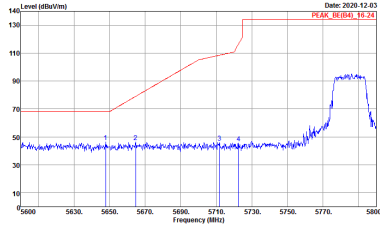
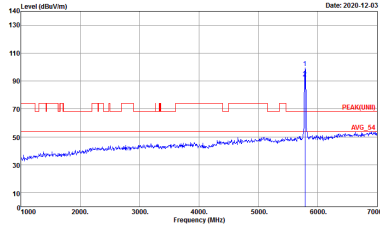
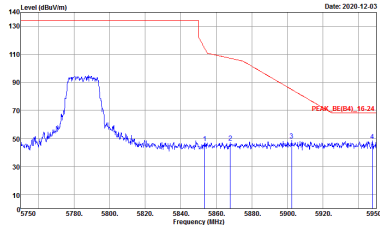


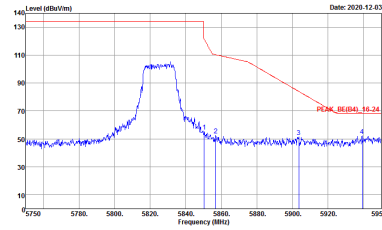
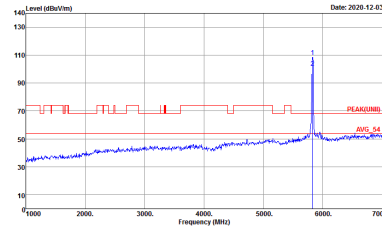
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH149 5745MHz                                                                                                                                                                                                       |                                                                                                                                                                                                                          |
| 1    | Vertical                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(149)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(149) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |



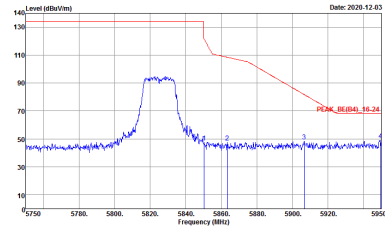
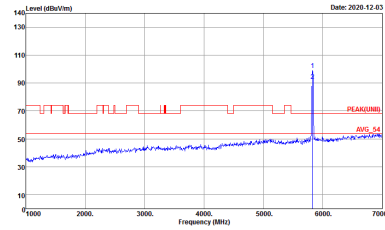
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                             |                                                                                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH157 5785MHz                                                                                                                                                                                                     |                                                                                                                                                                                                                        |
| 1    | Horizontal                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                            |
| Peak |  <p>Site<br/>Condition : 03CH12-HY<br/>: PEAK_BE(04)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site<br/>Condition : 03CH12-HY<br/>: PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site<br/>Condition : 03CH12-HY<br/>: PEAK_BE(04)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                             |



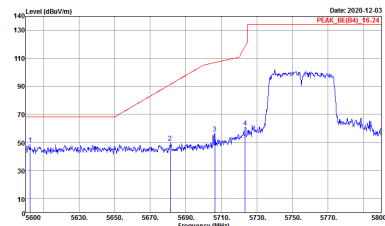
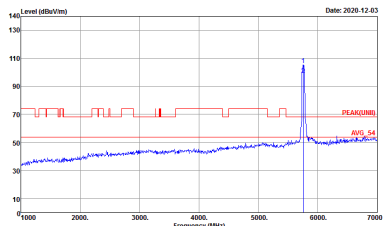
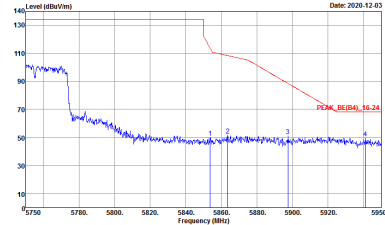
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH157 5785MHz                                                                                                                                                                                                       |                                                                                                                                                                                                                          |
| 1    | Vertical                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div>   | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank                                                                                                                                                                                                               |

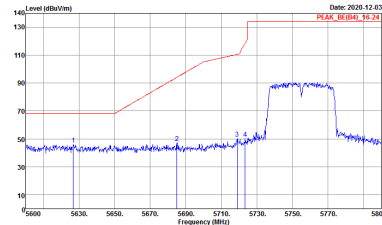
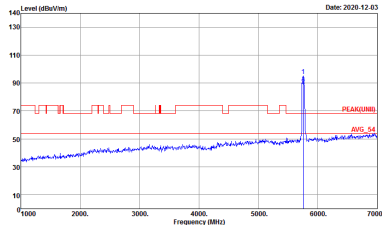
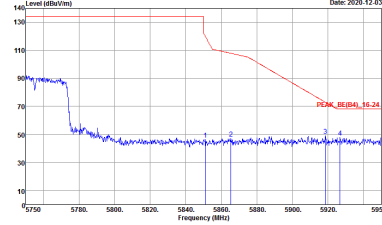
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                             |                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH12-4Y<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH12-4Y<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |



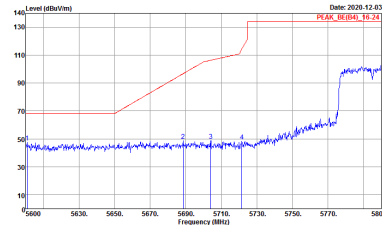
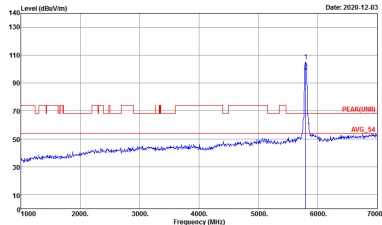
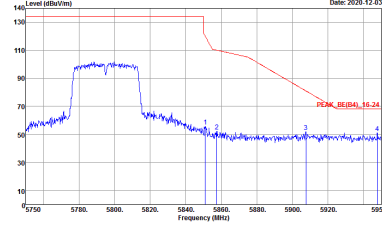
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                              |                                                                                                                                                                                                                                 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(FUND)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |

**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

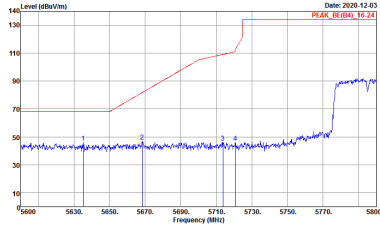
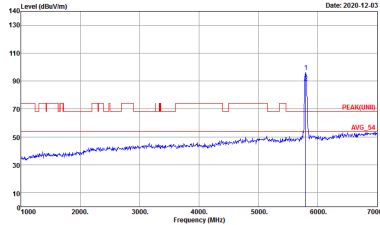
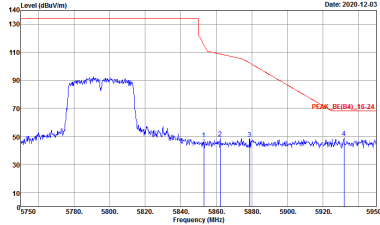
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                           |                                                                                                                                                                                                                      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH151 5755MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH12-HY<br/> Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/> : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/> Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/> : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/> Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/> : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank                                                                                                                                                                                                           |

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH151 5755MHz                                                                                                                                                                                             |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                     |



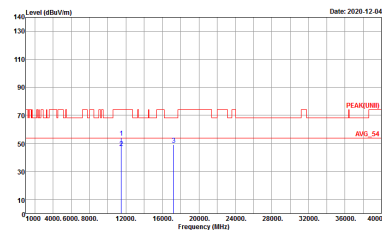
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH159 5795MHz                                                                                                                                                                                              |                                                                                                                                                                                                                        |
| 1    | Horizontal                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                            |
| Peak |  <p>Site: 03CH12-11Y<br/>Condition: PEAK_BE(04)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site: 03CH12-11Y<br/>Condition: PEAK_BE(04)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Peak |  <p>Site: 03CH12-11Y<br/>Condition: PEAK_BE(04)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                             |



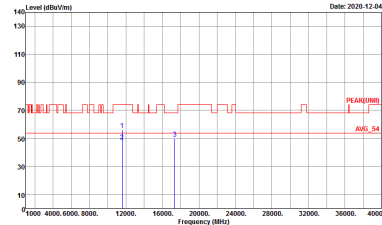
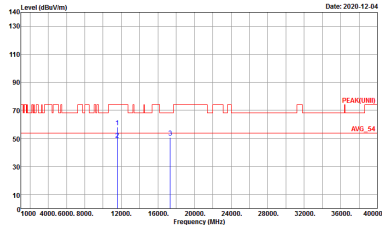
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH159 5795MHz                                                                                                                                                                                             |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank                                                                                                                                                                                                     |



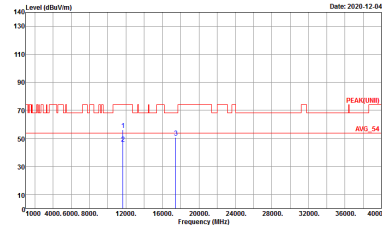
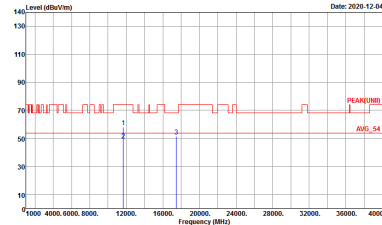
**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH149 5745MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</p> |

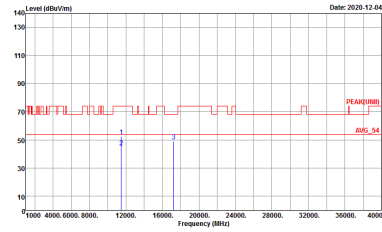
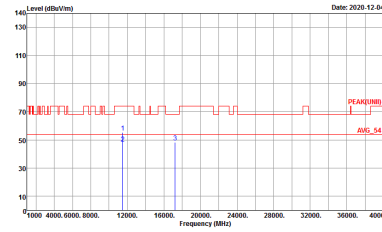


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH157 5785MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 VERTICAL</p> |

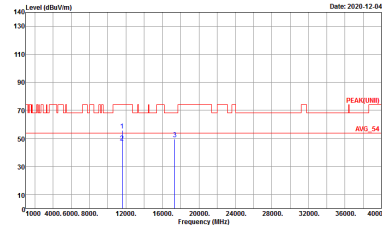
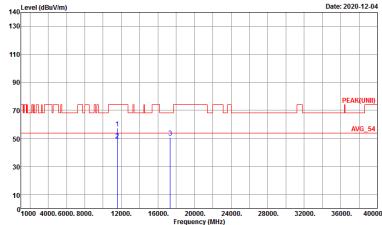


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH165 5825MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 VERTICAL</p> |

**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                    |                                                                                                                                                                     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH149 5745MHz                                                                                                                                           |                                                                                                                                                                     |
| 1            | Horizontal                                                                                                                                                           | Vertical                                                                                                                                                            |
| Peak<br>Avg. |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |

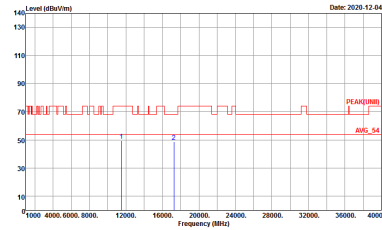
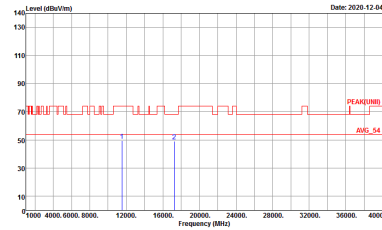


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH157 5785MHz                                                                                                                                         |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 VERTICAL</p> |

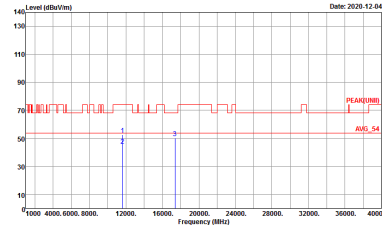
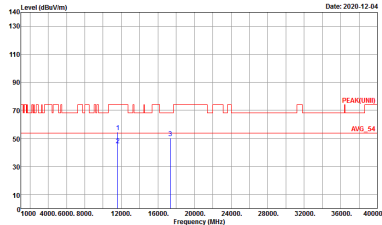


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                       |                                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH165 5825MHz                                                                                                              |                                                                                                                                       |
| 1            | Horizontal                                                                                                                              | Vertical                                                                                                                              |
| Peak<br>Avg. | <div><p>Level (dBm/1m)</p><p>Date: 2020-12-04</p><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p></div> | <div><p>Level (dBm/1m)</p><p>Date: 2020-12-04</p><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p></div> |

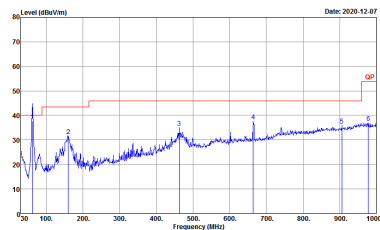
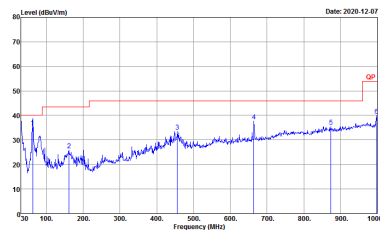
**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI                 | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                    |                                                                                                                                                                     |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | 802.11n HT40 CH151 5755MHz                                                                                                                                           |                                                                                                                                                                     |
| 1                    | Horizontal                                                                                                                                                           | Vertical                                                                                                                                                            |
| <b>Peak<br/>Avg.</b> |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |



| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                            |                                                                                                                                                                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH159 5795MHz                                                                                                                                                   |                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                   | Vertical                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p></div> |

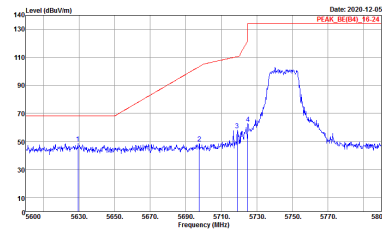
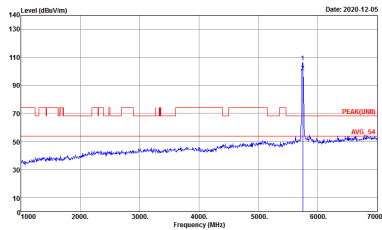
Emission below 1GHz  
5GHz WIFI 802.11a (LF)

| WIFI         | 5GHz WIFI                                                                                                                                                    |                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a LF                                                                                                                                                   |                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                    |
| QP /<br>Peak |  <p>Site : 03CH12-HY<br/>Condition : QP 3m BIL06_6111D_37059 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : QP 3m BIL06_6111D_37059 VERTICAL</p> |
|              |                                                                                                                                                              |                                                                                                                                                             |

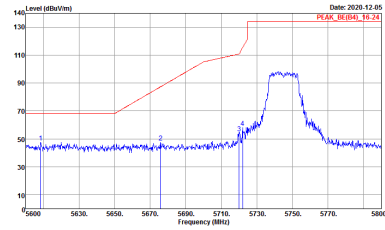
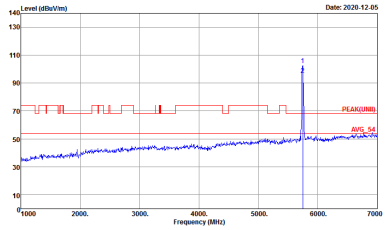


&lt;PIFA Antenna&gt;

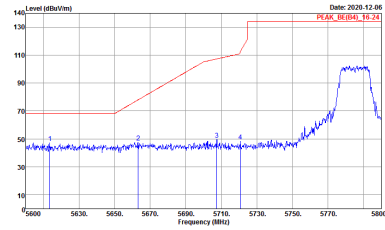
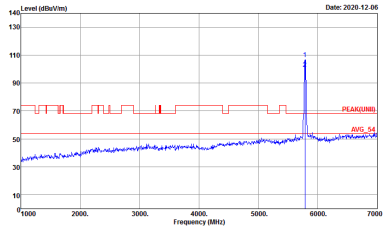
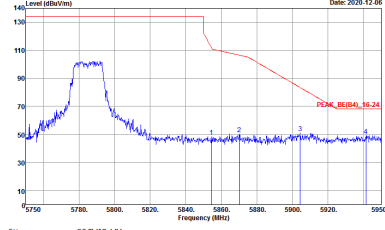
Band 4 - 5725~5850MHz  
WIFI 802.11a (Band Edge @ 3m)

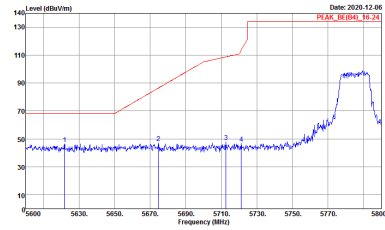
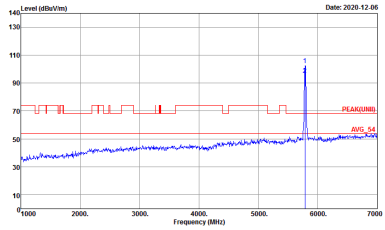
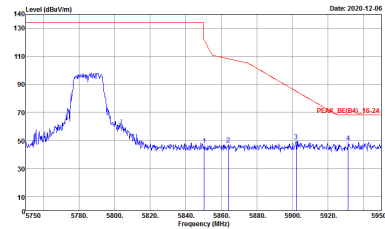
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH149 5745MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SW1:Auto</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SW1:Auto</p> |



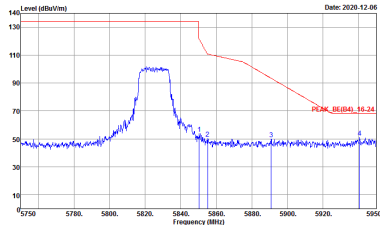
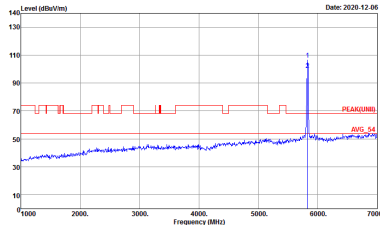
|      |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                              |                                                                                                                                                                                                                           |
| ANT  | 802.11a CH149 5745MHz                                                                                                                                                                                                           |                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |



| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site: 03CH12-HY<br/>Condition: PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site: 03CH12-HY<br/>Condition: PEAK(BB)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site: 03CH12-HY<br/>Condition: PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                         |

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                     |

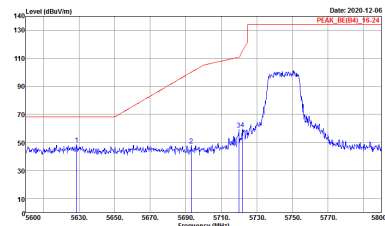
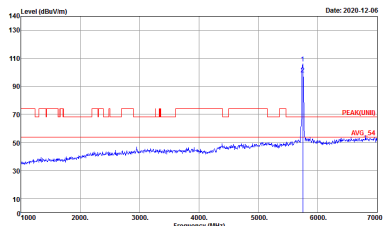


|      |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                |                                                                                                                                                                                                                             |
| ANT  | 802.11a CH165 5825MHz                                                                                                                                                                                                             |                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                 |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |

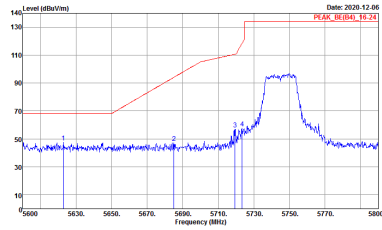
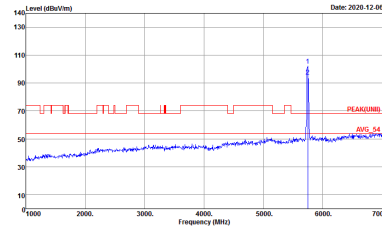


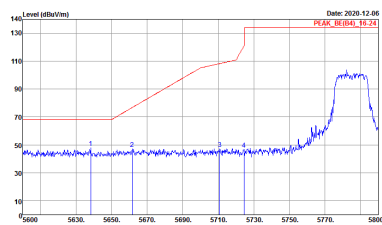
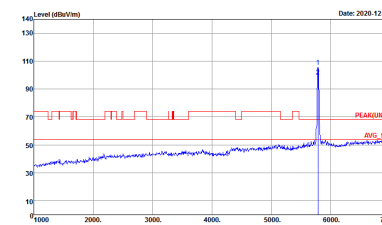
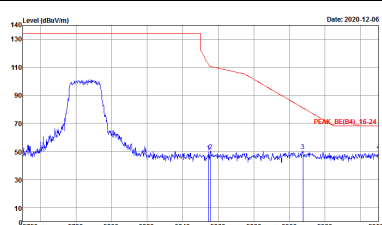
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                             |                                                                                                                                         |
|------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH165 5825MHz                                                                                                                          |                                                                                                                                         |
| 1    | Vertical                                                                                                                                       | Fundamental                                                                                                                             |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(FUND) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |

**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

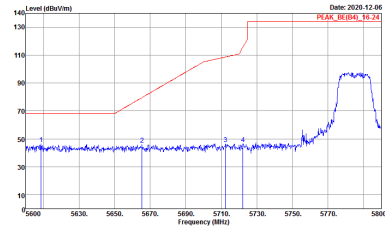
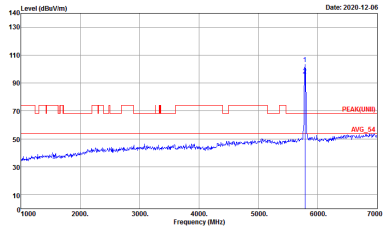
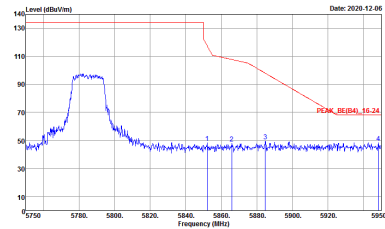
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                         |                                                                                                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH149 5745MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH12-HY<br/> Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/> : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH12-HY<br/> Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/> : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p> |



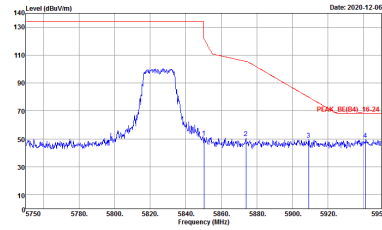
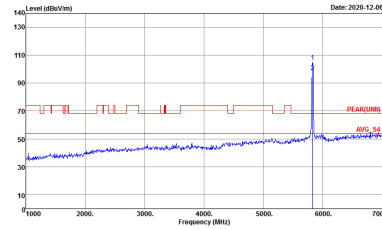
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                              |                                                                                                                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH149 5745MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> |

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH157 5785MHz                                                                                                                                                                                               |                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                       |

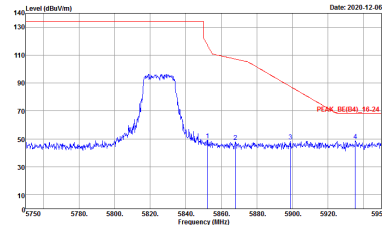
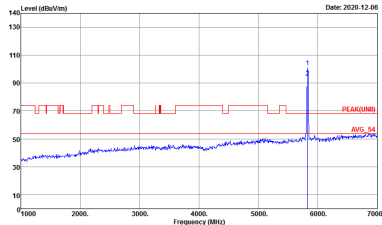


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH157 5785MHz                                                                                                                                                                                             |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                     |

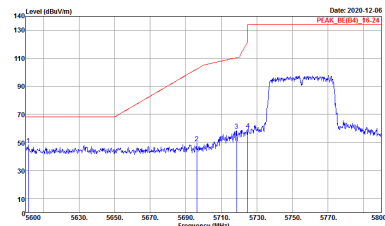
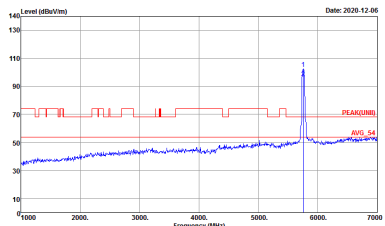
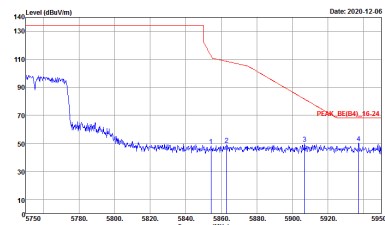


|      |                                                                                                                                                                                                                           |                                                                                                                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                           |
| ANT  | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                                |                                                                                                                                                                                                                           |
| 1    | Horizontal                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                               |
| Peak |  <p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH12-4NY<br/>Condition : PEAK(FUND)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |



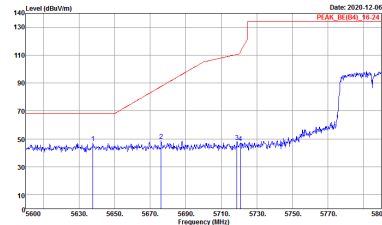
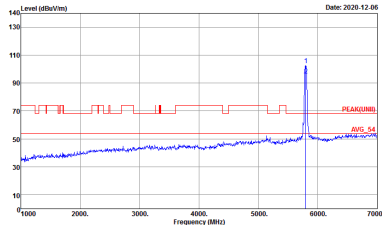
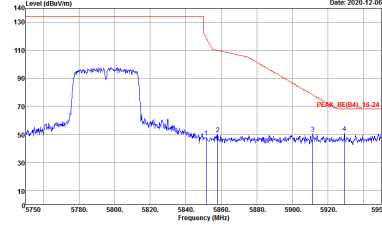
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                              |                                                                                                                                                                                                                                 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH12-4NY<br/>Condition : PEAK(FUND)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |

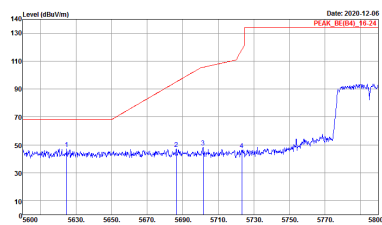
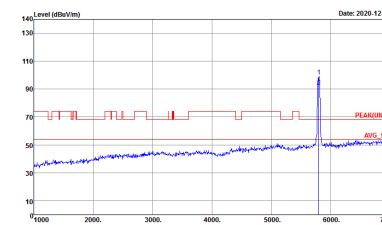
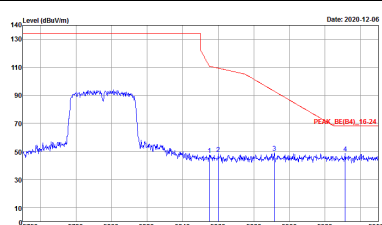
**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                           |                                                                                                                                                                                                                      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH151 5755MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH12-HY<br/> Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/> : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/> Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/> : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Peak |  <p>Site : 03CH12-HY<br/> Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/> : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank                                                                                                                                                                                                           |



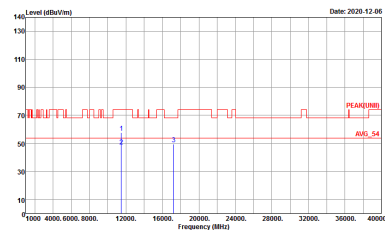
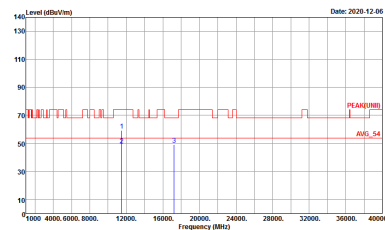
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                 |                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH151 5755MHz                                                                                                         |                                                                                                                            |
| 1    | Vertical                                                                                                                           | Fundamental                                                                                                                |
| Peak | <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK(UBB) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      | <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                 |

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH159 5795MHz                                                                                                                                                                                               |                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                       |

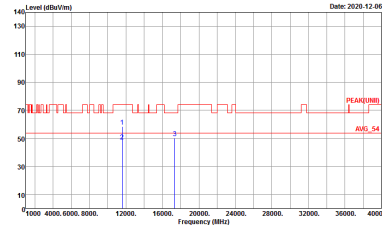
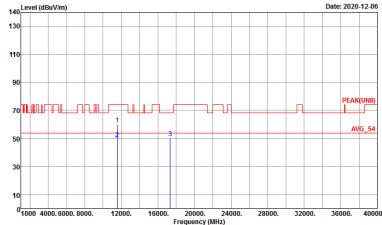
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH159 5795MHz                                                                                                                                                                                             |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                     |



**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH149 5745MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</p> |

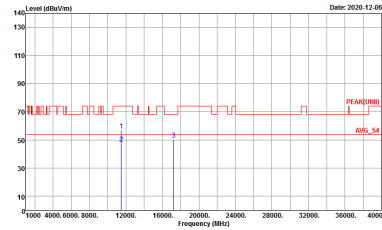
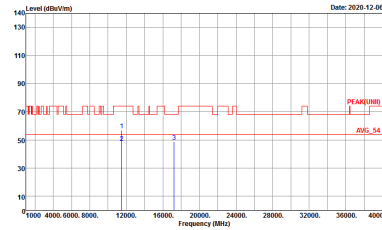


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH157 5785MHz                                                                                                                                              |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 VERTICAL</p> |

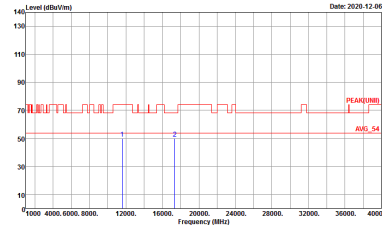
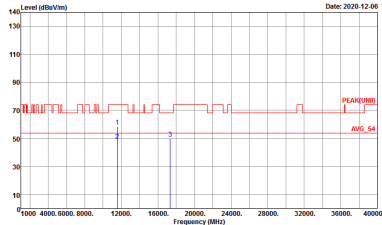


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                |                                                                                |
|--------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| ANT          | 802.11a CH165 5825MHz                                                            |                                                                                |
| 1            | Horizontal                                                                       | Vertical                                                                       |
| Peak<br>Avg. | <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |

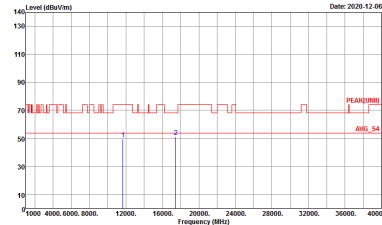
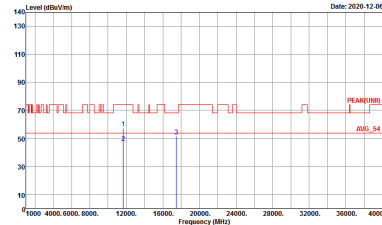
**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI                 | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                    |                                                                                                                                                                     |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | 802.11n HT20 CH149 5745MHz                                                                                                                                           |                                                                                                                                                                     |
| 1                    | Horizontal                                                                                                                                                           | Vertical                                                                                                                                                            |
| <b>Peak<br/>Avg.</b> |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |

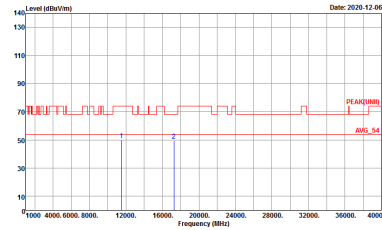
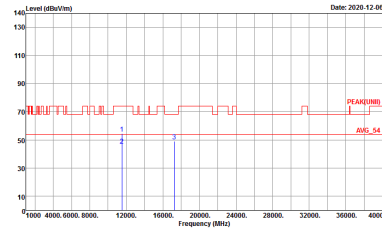


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH157 5785MHz                                                                                                                                         |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |

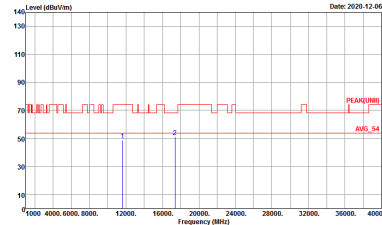
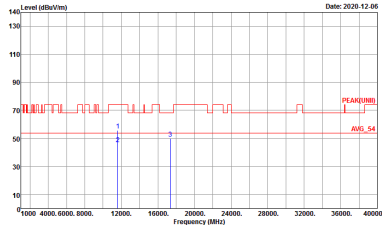


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                  |                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH165 5825MHz                                                                                                                                         |                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK[UNIT] 3m HORN_91200_1328 VERTICAL</p> |

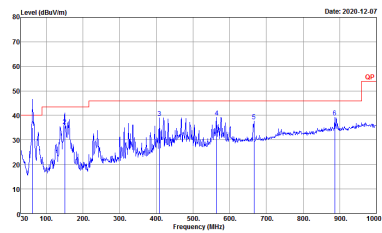
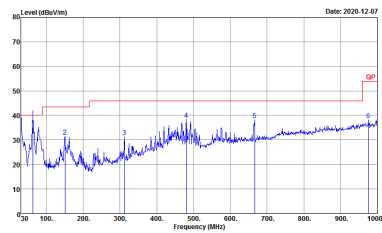
**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI                 | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                    |                                                                                                                                                                     |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | 802.11n HT40 CH151 5755MHz                                                                                                                                           |                                                                                                                                                                     |
| 1                    | Horizontal                                                                                                                                                           | Vertical                                                                                                                                                            |
| <b>Peak<br/>Avg.</b> |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p> |  <p>Site : 03CH12-14Y<br/> Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p> |



| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                            |                                                                                                                                                                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH159 5795MHz                                                                                                                                                   |                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                   | Vertical                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 HORIZONTAL</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_91200_1328 VERTICAL</p></div> |

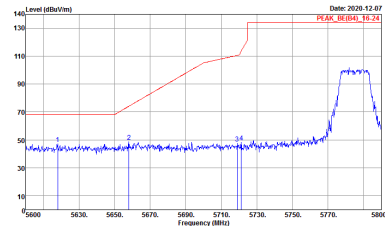
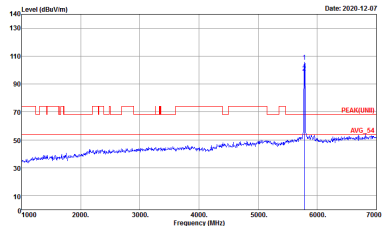
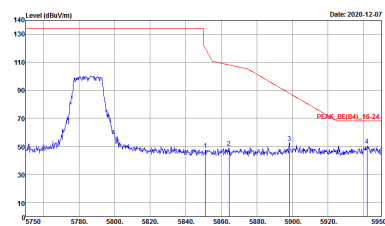
Emission below 1GHz  
5GHz WIFI 802.11a (LF)

| WIFI         | 5GHz WIFI                                                                                                                                                    |                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a LF                                                                                                                                                   |                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                    |
| QP /<br>Peak |  <p>Site : 03CH12-HY<br/>Condition : QP 3m B1LO6_6111D_37059 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : QP 3m B1LO6_6111D_37059 VERTICAL</p> |

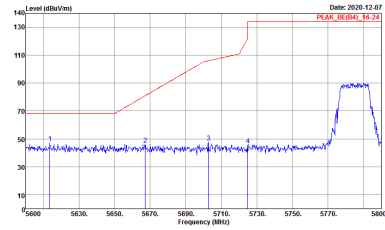
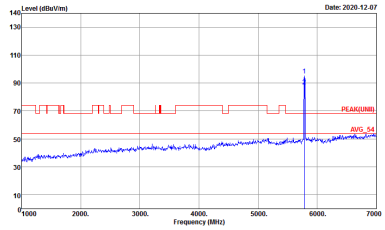
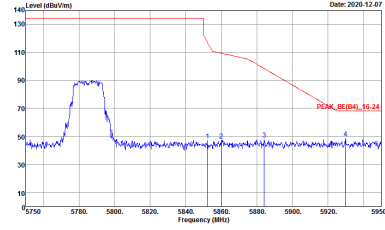


<Sample 3>  
<Dipole Antenna>

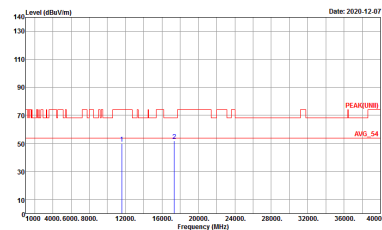
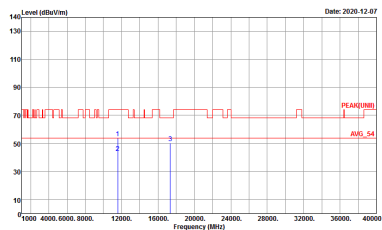
Band 4 - 5725~5850MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                       |                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site Condition : 03CH12-4HY<br/>: PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>   |  <p>Site Condition : 03CH12-4HY<br/>: PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Peak |  <p>Site Condition : 03CH12-4HY<br/>: PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank                                                                                                                                                                                                          |

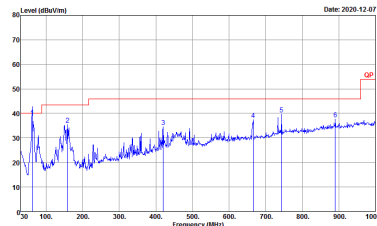
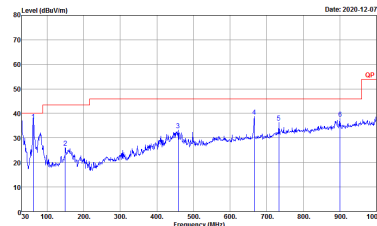


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                            |                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                         |                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site<br/>Condition : 03CH12-11Y<br/>: PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site<br/>Condition : 03CH12-11Y<br/>: PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site<br/>Condition : 03CH12-11Y<br/>: PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                            |

**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                   |                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH157 5785MHz                                                                                                                                               |                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                          | Vertical                                                                                                                                                           |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/> Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/> Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</p> |

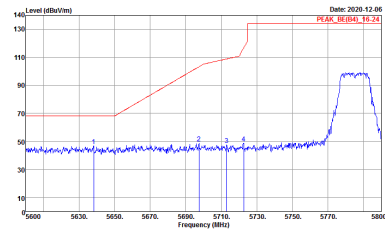
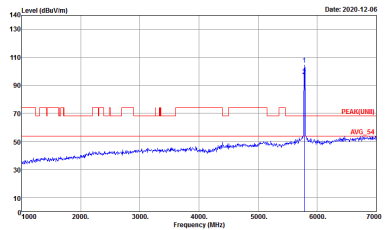
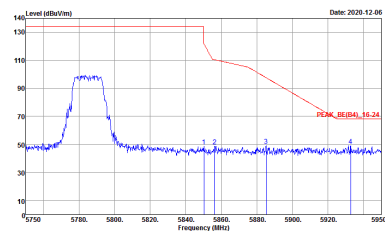
**Emission below 1GHz**  
**5GHz WIFI 802.11a (LF)**

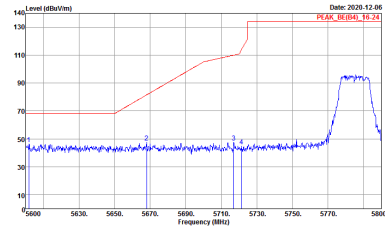
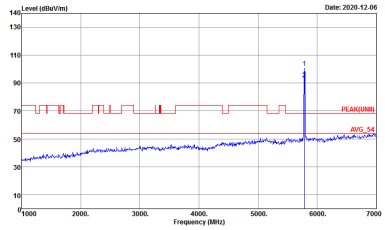
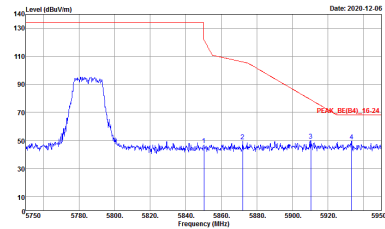
| WIFI         | 5GHz WIFI                                                                                                                                                    |                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a LF                                                                                                                                                   |                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                    |
| QP /<br>Peak |  <p>Site : 03CH12-HY<br/>Condition : QP 3m BILO6_6111D_37059 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : QP 3m BILO6_6111D_37059 VERTICAL</p> |



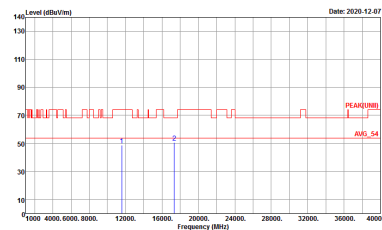
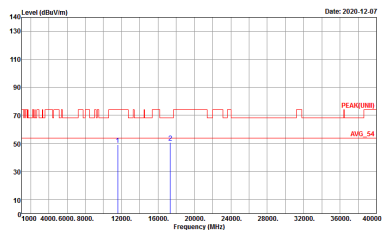
&lt;PIFA Antenna&gt;

Band 4 - 5725~5850MHz  
WIFI 802.11a (Band Edge @ 3m)

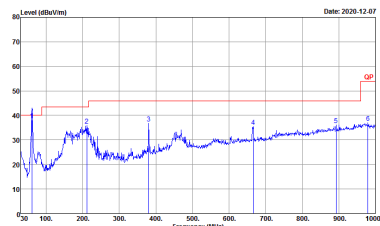
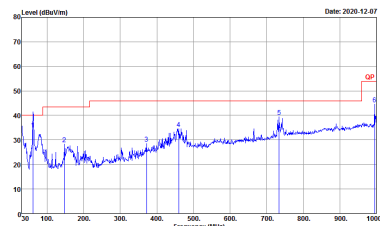
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                         |                                                                                                                                                                                                                           |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                           |
| 1    | Horizontal                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                               |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto</p> |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1328 HORIZONTAL<br/>: RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto</p> | Left blank                                                                                                                                                                                                                |

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>   |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
|      |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank                                                                                                                                                                                                            |

**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                   |                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH157 5785MHz                                                                                                                                               |                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                          | Vertical                                                                                                                                                           |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/> Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/> Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</p> |

**Emission below 1GHz**  
**5GHz WIFI 802.11a (LF)**

| WIFI         | 5GHz WIFI                                                                                                                                                    |                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a LF                                                                                                                                                   |                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                    |
| QP /<br>Peak |  <p>Site : 03CH12-HY<br/>Condition : QP 3m BILO6_6111D_37059 HORIZONTAL</p> |  <p>Site : 03CH12-HY<br/>Condition : QP 3m BILO6_6111D_37059 VERTICAL</p> |



## Appendix E. Duty Cycle Plots

| Band              | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting | Duty Factor(dB) |
|-------------------|---------------|-------|----------|-------------|-----------------|
| 802.11a           | 94.09         | 2070  | 0.48     | 1kHz        | 0.26            |
| 5GHz 802.11n HT20 | 93.66         | 1920  | 0.52     | 1kHz        | 0.28            |
| 5GHz 802.11n HT40 | 87.96         | 950   | 1.05     | 3kHz        | 0.56            |

