



# FCC RADIO TEST REPORT

**FCC ID** : UZ7KC50E22  
**Equipment** : KC50E22 Kiosk Computer  
**Brand Name** : Zebra  
**Model Name** : KC50E22  
**Applicant** : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069 USA  
**Manufacturer** : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069 USA  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on May 14, 2024 and testing was performed from May 14, 2024 to Aug. 04, 2024. We, Sporton International Inc. Wensan 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

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## History of this test report

| Report No. | Version | Description             | Issue Date    |
|------------|---------|-------------------------|---------------|
| FR470121E  | 01      | Initial issue of report | Aug. 27, 2024 |
|            |         |                         |               |
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## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                     | Result (PASS/FAIL) | Remark                                 |
|---------------|-----------------|--------------------------------|--------------------|----------------------------------------|
| 3.1           | 15.403          | 6dB & 26dB Bandwidth           | Pass               | -                                      |
| 3.1           | 2.1049          | 99% Occupied Bandwidth         | Pass               | -                                      |
| 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               | 1.24 dB under the limit at 5649.25 MHz |
| 3.5           | 15.207          | AC Conducted Emission          | Pass               | 8.19 dB under the limit at 13.15 MHz   |
| 3.6           | 15.203          | Antenna Requirement            | Pass               | -                                      |

**Conformity Assessment Condition:**

1. ECR inquiry for data referencing from UZ7KC50A22 has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. UZ7KC50E22 is different from FCC ID: UZ7KC50A22 (Reference model), in the following:
  - The only difference between UZ7KC50E22 and UZ7KC50A22 are the main board schematics, key components of BOM and NFC software and hardware.
3. All the test results are referenced from UZ7KC50A22 (Sporton Test Report FR450112F), and spot check results to justify data referencing is presented in the Appendix G.
4. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
5. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Yun Huang****Report Producer: Rebecca Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature             |                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Equipment                   | KC50E22 Kiosk Computer                                                                                                  |
| Brand Name                  | Zebra                                                                                                                   |
| Model Name                  | KC50E22                                                                                                                 |
| FCC ID                      | UZ7KC50E22                                                                                                              |
| Supports Radios application | WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80/VHT160<br>WLAN 11ax HE20/HE40/HE80/HE160<br>Bluetooth BR/EDR/LE |

## 1.2 EUT Information (Referenced Model)

| Product Feature                 |                                                                                                                                |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| FCC ID                          | UZ7KC50A22                                                                                                                     |
| EUT supports Radios application | NFC<br>WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80/VHT160<br>WLAN 11ax HE20/HE40/HE80/HE160<br>Bluetooth BR/EDR/LE |
| HW Version                      | REV:PT                                                                                                                         |
| SW Version                      | 13-30-02.00-TG-U00-STD-ATH-04                                                                                                  |
| OS Version                      | Android 13                                                                                                                     |
| MFD                             | 10MAY24                                                                                                                        |
| EUT Stage                       | Identical Prototype                                                                                                            |

**Remark:** The EUT's information above is declared by manufacturer.

| Specification of Accessories |            |       |             |                     |
|------------------------------|------------|-------|-------------|---------------------|
| AC Adapter                   | Brand Name | ZEBRA | Model Name  | PS000088A01         |
| USB C-C Cable                | Brand Name | ZEBRA | Part Number | CBL-EC5X-USBC3A-01  |
| Stand                        | Brand Name | ZEBRA | Part Number | 3PTY-SC-2000-CF2-01 |
| Printer                      | Brand Name | ZEBRA | Model Name  | ZD230t              |
| 2nd display                  | Brand Name | ZEBRA | Model Name  | TD50-15F00          |
| Edge scanner                 | Brand Name | ZEBRA | Part Number | ZFLX-SCNR-E00       |
| Edge LED Light Bar           | Brand Name | ZEBRA | Part Number | ZFLX-LTBAR-200      |
| USB Cable                    | Brand Name | ZEBRA | Part Number | 300283-002          |

### 1.3 Product Specification of Equipment Under Test

| Product Specification is subject to this standard |        |                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |        |        |                      |   |   |
|---------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------|--------|----------------------|---|---|
| Tx/Rx Frequency Range                             |        | 5745 MHz ~ 5825 MHz                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |        |        |                      |   |   |
| Maximum Output Power to Antenna                   |        | MIMO <Ant. 1+2><br>802.11a: 23.77 dBm / 0.2382 W<br>802.11n HT20: 23.52 dBm / 0.2249 W<br>802.11n HT40: 23.38 dBm / 0.2178 W<br>802.11ac VHT20: 23.62 dBm / 0.2301 W<br>802.11ac VHT40: 23.48 dBm / 0.2228 W<br>802.11ac VHT80: 20.81 dBm / 0.1205 W<br>802.11ax HE20: 23.72 dBm / 0.2355 W<br>802.11ax HE40: 23.58 dBm / 0.2280 W<br>802.11ax HE80: 20.91 dBm / 0.1233 W                                                    |  |  |        |        |                      |   |   |
| 99% Occupied Bandwidth                            |        | MIMO <Ant. 1><br>802.11a: 16.73<br>802.11ac VHT20: 17.83 MHz<br>802.11ac VHT40: 36.36 MHz<br>802.11ac VHT80: 75.52 MHz<br>802.11ax HE20: 19.08 MHz<br>802.11ax HE40: 38.16 MHz<br>802.11ax HE80: 77.20 MHz<br>MIMO <Ant. 2><br>802.11a: 17.08 MHz<br>802.11ac VHT20: 18.13 MHz<br>802.11ac VHT40: 38.86 MHz<br>802.11ac VHT80: 75.52 MHz<br>802.11ax HE20: 19.28 MHz<br>802.11ax HE40: 38.46 MHz<br>802.11ax HE80: 77.32 MHz |  |  |        |        |                      |   |   |
| Antenna Type / Gain                               |        | <Ant. 1>: PIFA Antenna with gain 3.74 dBi<br><Ant. 2>: Monopole Antenna with gain 3.21 dBi                                                                                                                                                                                                                                                                                                                                   |  |  |        |        |                      |   |   |
| Type of Modulation                                |        | 802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)<br>802.11ax: OFDMA<br>(BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)                                                                                                                                                                                                                                                |  |  |        |        |                      |   |   |
| Antenna Function Description                      |        | <table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11a/n/ac/ax MIMO</td><td>V</td><td>V</td></tr></table>                                                                                                                                                                                                                                                                                                    |  |  | Ant. 1 | Ant. 2 | 802.11a/n/ac/ax MIMO | V | V |
|                                                   | Ant. 1 | Ant. 2                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |        |        |                      |   |   |
| 802.11a/n/ac/ax MIMO                              | V      | V                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |        |        |                      |   |   |

**Remark:**

1. MIMO Ant. 1+2 Directional Gain is a calculated result from MIMO Ant. 1 and MIMO Ant. 2. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 1 + Ant. 2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
3. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

### 1.3.1 Antenna Directional Gain

#### <For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

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

$G_{ANT}$  is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

As minimum  $N_{SS}=1$  is supported by EUT, the formula can be simplified as:

Directional gain =  $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$  dBi

Where  $G_1, G_2, \dots, G_N$  denote single antenna gain.

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

|                |       |       | DG<br>for | DG<br>for | Power<br>Limit | PSD<br>Limit |
|----------------|-------|-------|-----------|-----------|----------------|--------------|
|                | Ant 1 | Ant 2 | Power     | PSD       | Reduction      | Reduction    |
|                | (dBi) | (dBi) | (dBi)     | (dBi)     | (dB)           | (dB)         |
| <b>Band IV</b> | 3.74  | 3.21  | 3.74      | 6.49      | 0.00           | 0.49         |

Calculation example:

If a device has two antenna,  $G_{ANT1} = 3.74$  dBi;  $G_{ANT2} = 3.21$  dBi

Directional gain of power measurement =  $\max(3.74, 3.21) + 0 = 3.74$  dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[ 10^{(3.74 \text{ dBi} / 20)} + 10^{(3.21 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

$$= 6.49 \text{ dBi}$$

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

## 1.4 Modification of EUT

No modifications made to the EUT during the testing.

## 1.5 Testing Location

|                    |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>TH05-HY, CO07-HY, 03CH22-HY                                                                                           |

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

FCC designation No.: TW3786

## 1.6 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

### Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

| Frequency Band                       | Channel          | Freq. (MHz) | Channel | Freq. (MHz) |
|--------------------------------------|------------------|-------------|---------|-------------|
| 5725-5850 MHz<br>Band 4<br>(U-NII-3) | 149              | 5745        | 157     | 5785        |
|                                      | 151*             | 5755        | 159*    | 5795        |
|                                      | 153              | 5765        | 161     | 5805        |
|                                      | 155 <sup>#</sup> | 5775        | 165     | 5825        |

**Note:**

1. The above Frequency and Channel with "\*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "<sup>#</sup>" are 802.11ac VHT80 and 802.11ax HE80.

## 2.2 Test Mode

This device support 26/52/106/242/484/996.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted test is covered by 802.11ac mode.

**.The final test modes include the worst data rates for each modulation shown in the table below.**

### MIMO Mode

| Modulation                      | Data Rate |
|---------------------------------|-----------|
| 802.11a                         | 6 Mbps    |
| 802.11n HT20 (Covered by VHT20) | MCS0      |
| 802.11n HT40 (Covered by VHT40) | MCS0      |
| 802.11ac VHT20                  | MCS0      |
| 802.11ac VHT40                  | MCS0      |
| 802.11ac VHT80                  | MCS0      |
| 802.11ax HE20                   | MCS0      |
| 802.11ax HE40                   | MCS0      |
| 802.11ax HE80                   | MCS0      |

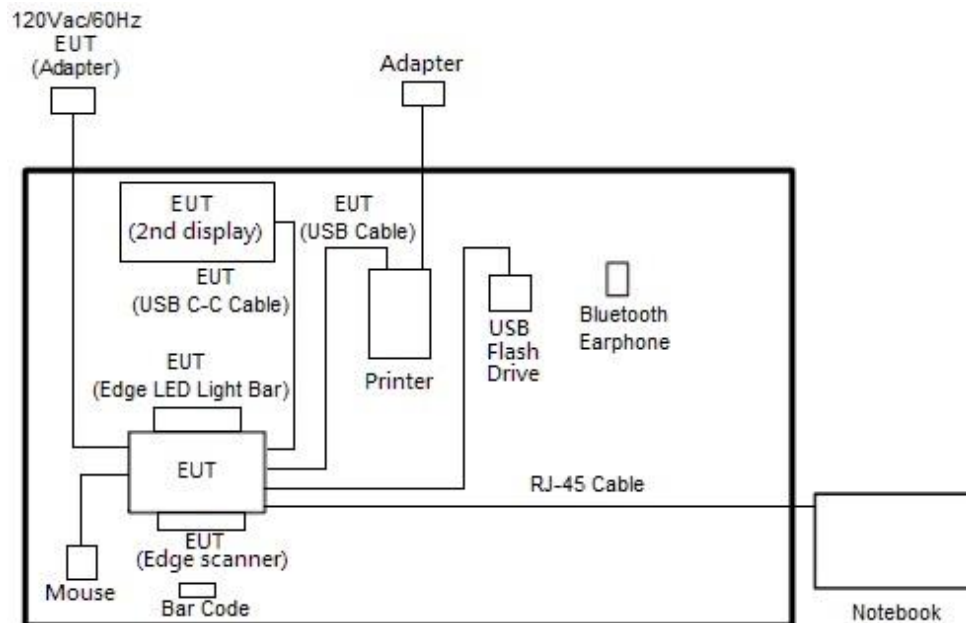
| Test Cases                                                                                                             |                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC Conducted Emission</b>                                                                                           | Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Scan Bar Code + USB C-C Cable Display with 2nd display + USB Cable with Printer + AC Adapter + LAN Link with Notebook + Edge USB-C with (Edge scanner + (Data Link with USB Flash Drive (USB to SD Card) + Edge LED Light Bar + Mouse) + Stand |
| <b>Remark:</b> Data Link with USB Flash Drive means data application transferred mode between EUT and USB Flash Drive. |                                                                                                                                                                                                                                                                                             |

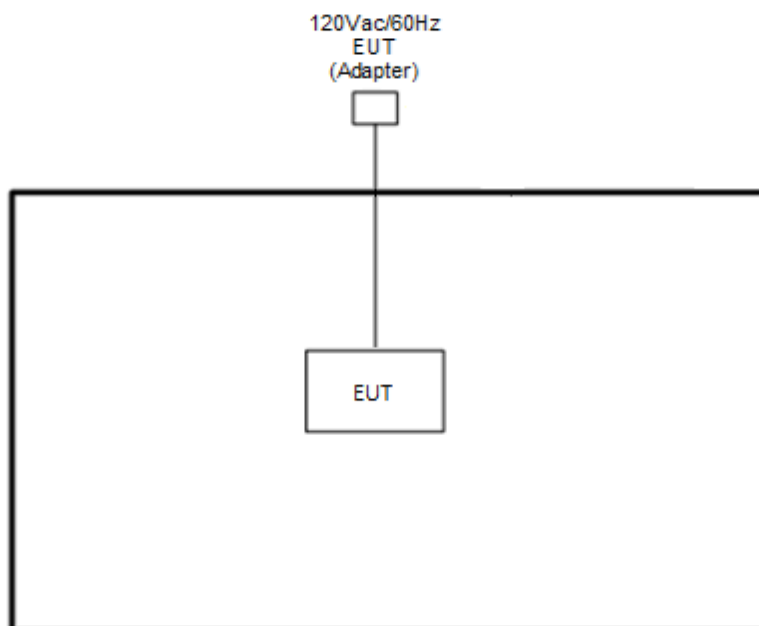
| Ch. # |        | Band IV : 5725-5850 MHz |               |               |               |
|-------|--------|-------------------------|---------------|---------------|---------------|
|       |        | 802.11a                 | 802.11ax HE20 | 802.11ax HE40 | 802.11ax HE80 |
| L     | Low    | 149                     | 149           | 151           | -             |
| M     | Middle | 157                     | 157           | -             | 155           |
| H     | High   | 165                     | 165           | 159           | -             |

**Remark:** For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

## 2.3 Connection Diagram of Test System

### <AC Conducted Emission Mode>



**<WLAN Tx Mode>**

**2.4 Support Unit used in test configuration and system**

| Item | Equipment          | Brand Name    | Model Name    | FCC ID       | Data Cable     | Power Cord                                                 |
|------|--------------------|---------------|---------------|--------------|----------------|------------------------------------------------------------|
| 1.   | Bluetooth Earphone | Sony Ericsson | MW600         | PY700A2029   | N/A            | N/A                                                        |
| 2.   | WLAN AP            | ASUS          | RT-AC52       | MSQ-RTAC4A00 | N/A            | Unshielded, 1.8m                                           |
| 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.   | Mouse              | ACER          | MOANUOA       | FCC DoC      | Shielded, 1.7m | N/A                                                        |
| 5.   | Bar Code           | N/A           | N/A           | N/A          | N/A            | N/A                                                        |
| 6.   | USB Flash Drive    | SanDisk       | E4BDC         | FCC DoC      | N/A            | N/A                                                        |
| 7.   | SD Card            | SanDisk       | MicroSD HC    | FCC DoC      | N/A            | N/A                                                        |



## 2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Version 4.0.211.0" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

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

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

### 3 Test Result

#### 3.1 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.

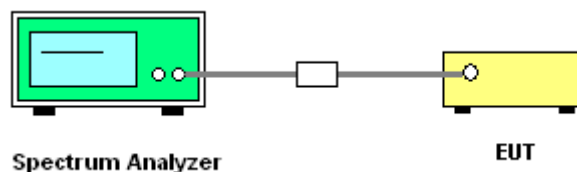
##### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in 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 5.725-5.85 GHz
2. Set RBW = 100 kHz.
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.

## 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

Please refer to the measuring equipment list in this test report.

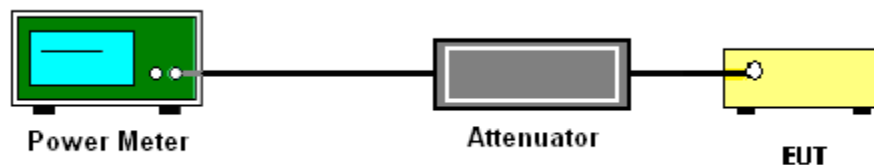
### 3.2.3 Test Procedures

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

### 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

Please refer to the measuring equipment list in this test report.

#### 3.3.3 Test Procedures

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

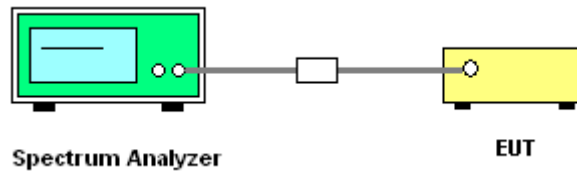
##### # Method SA-2 #

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

- Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 300kHz.
  - Set VBW  $\geq 1$  MHz.
  - Add  $10 \log(500 \text{ kHz/RBW})$  to the measured result, whereas RBW ( $< 500 \text{ kHz}$ ) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
  - Number of points in sweep  $\geq 2 \text{ Span} / \text{RBW}$ .
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging mode.
  - Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6 \text{ dB}$  if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
  2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
  3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.  
Method (c): Measure and add  $10 \log(N_{\text{ANT}})$  dB.  
With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity  $10 \log(N_{\text{ANT}})$  dB is added to each spectrum value before comparing to the emission limit. The

addition of  $10 \log(N_{\text{ANT}})$  dB serves to apportion the emission limit among the  $N_{\text{ANT}}$  outputs so that each output is permitted to contribute no more than  $1/N_{\text{ANT}}^{\text{th}}$  of the PSD limit.

### 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 falls 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

Please refer to the measuring equipment list in this test report.

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section G) Unwanted emissions measurement.  
(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
  - RBW = 120 kHz
  - VBW = 300 kHz
  - Detector = Peak
  - Trace mode = max hold  
(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
  - RBW = 1 MHz
  - VBW  $\geq$  3 MHz
  - Detector = Peak
  - Sweep time = auto
  - Trace mode = max hold  
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
  - RBW = 1 MHz
  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is 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 is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading.  
When there is no suspected emission found and the emission level is with at least 6 dB margin

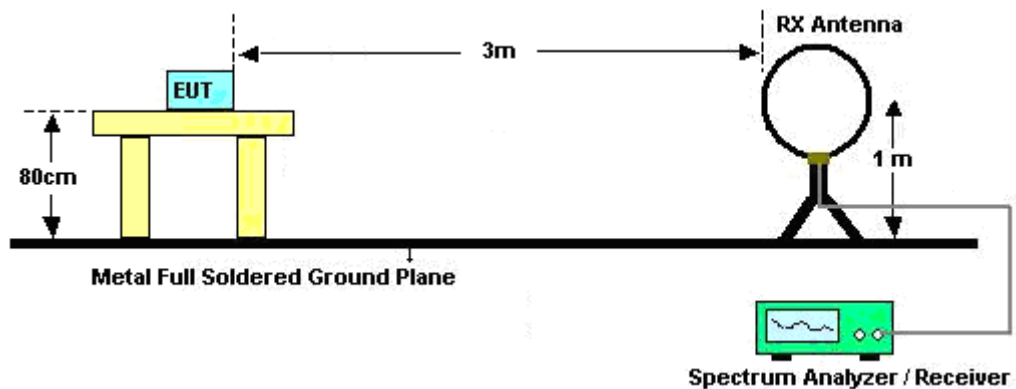
against QP limit line, the position is marked as “-”.

7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies.

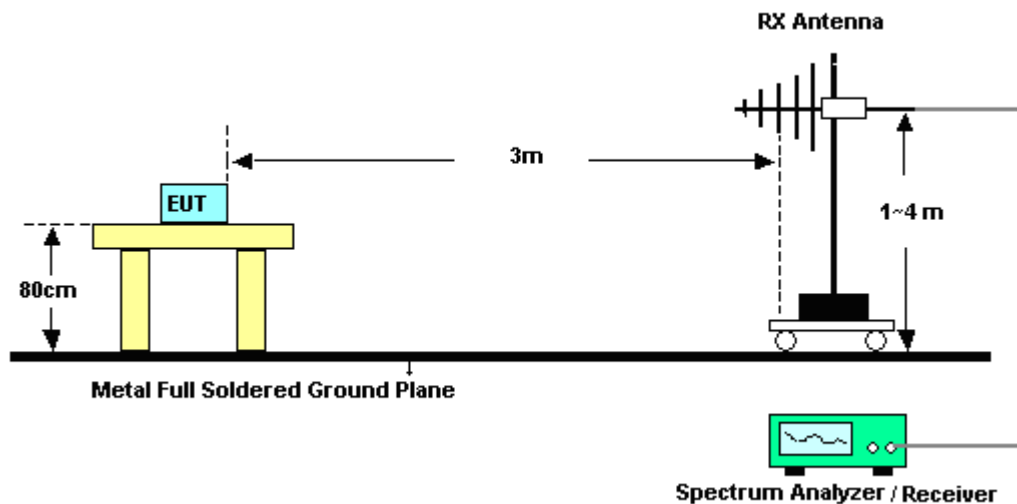
When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

### 3.4.4 Test Setup

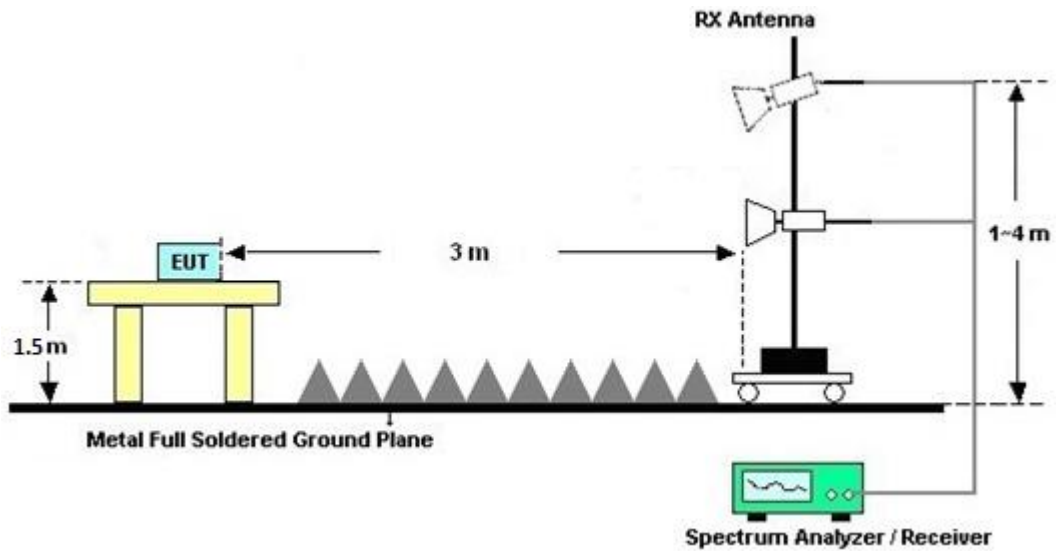
**For radiated emissions below 30MHz**



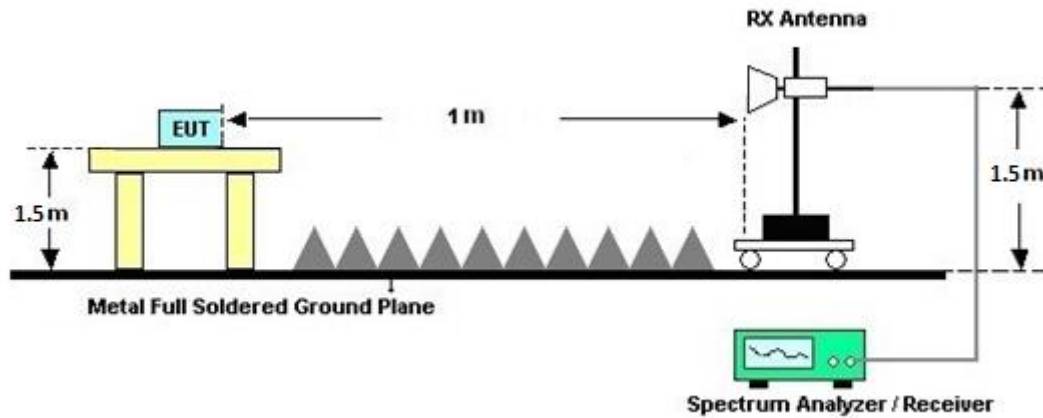
**For radiated emissions from 30MHz to 1GHz**



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





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

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

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

### **3.4.6 Test Result of Radiated 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.

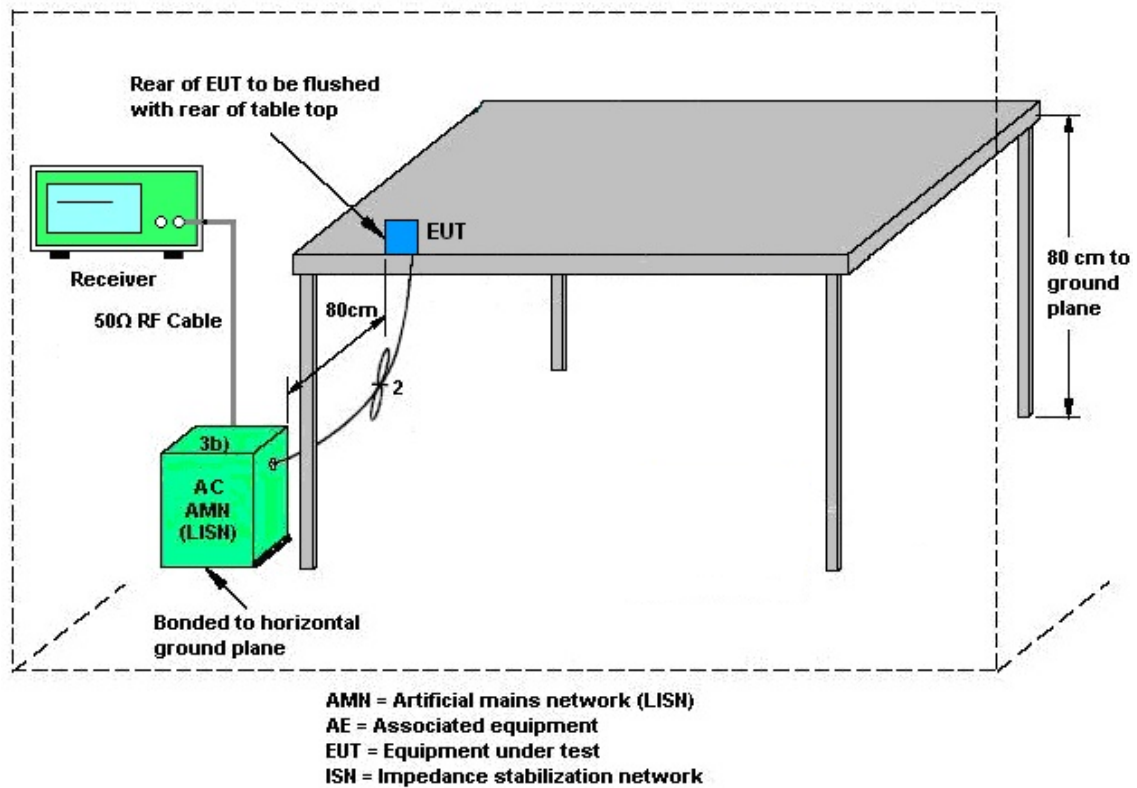
#### 3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.6 Antenna Requirements**

### **3.6.1 Standard Applicable**

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

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

An embedded-in antenna design is used.



## 4 List of Measuring Equipment

| Instrument                       | Brand Name      | Model No.               | Serial No.                 | Characteristics               | Calibration Date | Test Date                       | Due Date      | Remark                |
|----------------------------------|-----------------|-------------------------|----------------------------|-------------------------------|------------------|---------------------------------|---------------|-----------------------|
| AC Power Source                  | ACPOWER         | AFC-11003G              | F317040033                 | N/A                           | N/A              | Jun. 26, 2024                   | N/A           | Conduction (CO07-HY)  |
| Software                         | Rohde & Schwarz | EMC32 V10.30            | N/A                        | N/A                           | N/A              | Jun. 26, 2024                   | N/A           | Conduction (CO07-HY)  |
| Pulse Limiter                    | SCHWARZBECK     | VTSD 9561-F N           | 9561-F N00373              | 9kHz-200MHz                   | Oct. 20, 2023    | Jun. 26, 2024                   | Oct. 19, 2024 | Conduction (CO07-HY)  |
| RF Cable                         | HUBER + SUHNER  | RG 214/U                | 1358175                    | 9kHz~30MHz                    | Mar. 14, 2024    | Jun. 26, 2024                   | Mar. 13, 2025 | Conduction (CO07-HY)  |
| Two-Line V-Network               | TESEQ           | NNB 51                  | 45051                      | N/A                           | Mar. 10, 2024    | Jun. 26, 2024                   | Mar. 09, 2025 | Conduction (CO07-HY)  |
| Four-Line V-Network              | TESEQ           | NNB 52                  | 36122                      | N/A                           | Mar. 07, 2024    | Jun. 26, 2024                   | Mar. 06, 2025 | Conduction (CO07-HY)  |
| EMI Test Receiver                | Rohde & Schwarz | ESR3                    | 102317                     | 9kHz~3.6GHz                   | Sep. 20, 2023    | Jun. 26, 2024                   | Sep. 19, 2024 | Conduction (CO07-HY)  |
| Loop Antenna                     | Rohde & Schwarz | HFH2-Z2                 | 100488                     | 9kHz~30MHz                    | Sep. 12, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Sep. 11, 2024 | Radiation (03CH22-HY) |
| Bilog Antenna with 6dB           | TESEQ & WOKEN   | CBL 6111D & 00802N1D-06 | 63304 & 002                | 30MHz~1GHz                    | Oct. 15, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Oct. 14, 2024 | Radiation (03CH22-HY) |
| Amplifier                        | SONOMA          | 310N                    | 421581                     | N/A                           | Jul. 15, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Jul. 14, 2024 | Radiation (03CH22-HY) |
| Double Ridged Guide Horn Antenna | RFSPIN          | DRH18-E                 | LE2C04A18E N               | 1GHz~18GHz                    | Jul. 12, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Jul. 11, 2024 | Radiation (03CH22-HY) |
| SHF-EHF Horn Antenna             | SCHWARZBECK     | BBHA 9170               | 1224                       | 18GHz-40GHz                   | Jul. 10, 2023    | May 14, 2024~<br>Jun. 17, 2024  | Jul. 09, 2024 | Radiation (03CH22-HY) |
| SHF-EHF Horn Antenna             | SCHWARZBECK     | BBHA 9170               | 1224                       | 18GHz-40GHz                   | Jun. 24, 2024    | Jun. 25, 2024~<br>Jul. 10, 2024 | Jun. 23, 2025 | Radiation (03CH22-HY) |
| SHF-EHF Horn Antenna             | SCHWARZBECK     | BBHA 9170               | BBHA9170576                | 18GHz-40GHz                   | May. 18, 2024    | Jun. 17, 2024~<br>Jun. 25, 2024 | May. 17, 2025 | Radiation (03CH22-HY) |
| Amplifier                        | EMEC            | EM01G18GA               | 060877                     | N/A                           | Sep. 28, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Sep. 27, 2024 | Radiation (03CH22-HY) |
| Preamplifier                     | EMEC            | EM18G40G                | 060872                     | 18-40GHz                      | Sep. 06, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Sep. 05, 2024 | Radiation (03CH22-HY) |
| Signal Analyzer                  | Keysight        | N9010B                  | MY62170278                 | 10Hz~44GHz                    | Aug. 31, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Aug. 30, 2024 | Radiation (03CH22-HY) |
| EMI Test Receiver                | Keysight        | N9038B                  | MY62210111                 | 20Hz~8.4GHz                   | Aug. 23, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Aug. 22, 2024 | Radiation (03CH22-HY) |
| Hygrometer                       | TECPEL          | DTM-303A                | TP211469                   | N/A                           | Jan. 03, 2024    | May 14, 2024~<br>Jul. 10, 2024  | Jan. 02, 2025 | Radiation (03CH22-HY) |
| Controller                       | EMEC            | EM1000                  | N/A                        | Control Turn table & Ant Mast | N/A              | May 14, 2024~<br>Jul. 10, 2024  | N/A           | Radiation (03CH22-HY) |
| Antenna Mast                     | ChainTek        | MBS-520-1               | N/A                        | 1m~4m                         | N/A              | May 14, 2024~<br>Jul. 10, 2024  | N/A           | Radiation (03CH22-HY) |
| Turn Table                       | ChainTek        | T-200-S-1               | N/A                        | 0~360 Degree                  | N/A              | May 14, 2024~<br>Jul. 10, 2024  | N/A           | Radiation (03CH22-HY) |
| Software                         | Audix           | E3<br>6.09824_2019122   | RK-002347                  | N/A                           | N/A              | May 14, 2024~<br>Jul. 10, 2024  | N/A           | Radiation (03CH22-HY) |
| RF Cable                         | HUBER + SUHNER  | SUCOFLEX 102            | 803951/2                   | 9kHz~30MHz                    | Mar. 06, 2024    | May 14, 2024~<br>Jul. 10, 2024  | Mar. 05, 2025 | Radiation (03CH22-HY) |
| RF Cable                         | HUBER + SUHNER  | SUCOFLEX 102            | 804390/2,804611/2,804615/2 | N/A                           | Oct. 24, 2023    | May 14, 2024~<br>Jul. 10, 2024  | Oct. 23, 2024 | Radiation (03CH22-HY) |



| Instrument                  | Brand Name         | Model No.                           | Serial No.                 | Characteristics              | Calibration Date | Test Date                      | Due Date      | Remark                 |
|-----------------------------|--------------------|-------------------------------------|----------------------------|------------------------------|------------------|--------------------------------|---------------|------------------------|
| Hygrometer                  | TECPEL             | DTM-303A                            | TP201996                   | N/A                          | Nov. 07, 2023    | May 14, 2024~<br>Jul. 14, 2024 | Nov. 06, 2024 | Conducted<br>(TH05-HY) |
| Power Sensor                | DARE               | RPR3006W                            | 15I00041SNO<br>10 (NO:248) | 10MHz~6GHz                   | Jan. 10, 2024    | May 14, 2024~<br>Jul. 14, 2024 | Jan. 09, 2025 | Conducted<br>(TH05-HY) |
| Switch Control<br>Mainframe | Burgeon            | ETF-058                             | EC1300485<br>(BOX4)        | N/A                          | Apr. 08, 2024    | May 14, 2024~<br>Jul. 14, 2024 | Apr. 07, 2025 | Conducted<br>(TH05-HY) |
| Signal<br>Analyzer          | Rohde &<br>Schwarz | FSV40                               | 101564                     | 10Hz ~ 40GHz                 | Sep. 12, 2023    | May 14, 2024~<br>Jul. 14, 2024 | Sep. 11, 2024 | Conducted<br>(TH05-HY) |
| Software                    | Sporton            | BTWIFI_Final_<br>version_24041<br>1 | N/A                        | Conducted<br>Other Test Item | N/A              | May 14, 2024~<br>Jul. 14, 2024 | N/A           | Conducted<br>(TH05-HY) |

## 5 Measurement Uncertainty

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.44 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.50 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.50 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.50 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.40 dB |
|-------------------------------------------------------------------------|---------|

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

|                |                          |                    |       |    |
|----------------|--------------------------|--------------------|-------|----|
| Test Engineer: | Sylvia Li and Kevin Xiao | Temperature:       | 21~25 | °C |
| Test Date:     | 2024/05/14~2024/07/11    | Relative Humidity: | 51~54 | %  |

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

| U-NII-3 MIMO |           |                 |     |             |                     |       |                      |       |                      |       |                                 |           |
|--------------|-----------|-----------------|-----|-------------|---------------------|-------|----------------------|-------|----------------------|-------|---------------------------------|-----------|
| Mod.         | Data Rate | N <sub>TX</sub> | 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     | 2               | 149 | 5745        | 16.73               | 16.83 | 25.90                | 31.32 | 16.30                | 16.33 | 0.5                             | Pass      |
| 11a          | 6Mbps     | 2               | 157 | 5785        | 16.63               | 16.98 | 22.30                | 32.76 | 16.32                | 16.30 | 0.5                             | Pass      |
| 11a          | 6Mbps     | 2               | 165 | 5825        | 16.63               | 17.08 | 24.08                | 34.10 | 16.33                | 16.33 | 0.5                             | Pass      |
| VHT20        | MCS0      | 2               | 149 | 5745        | 17.83               | 17.88 | 27.12                | 28.89 | 16.91                | 17.00 | 0.5                             | Pass      |
| VHT20        | MCS0      | 2               | 157 | 5785        | 17.73               | 18.08 | 22.16                | 33.01 | 16.88                | 16.55 | 0.5                             | Pass      |
| VHT20        | MCS0      | 2               | 165 | 5825        | 17.73               | 18.13 | 21.51                | 33.89 | 17.26                | 16.93 | 0.5                             | Pass      |
| VHT40        | MCS0      | 2               | 151 | 5755        | 36.36               | 36.66 | 41.73                | 51.58 | 35.43                | 36.31 | 0.5                             | Pass      |
| VHT40        | MCS0      | 2               | 159 | 5795        | 36.26               | 36.86 | 40.82                | 67.87 | 35.47                | 35.67 | 0.5                             | Pass      |
| VHT80        | MCS0      | 2               | 155 | 5775        | 75.52               | 75.52 | 82.66                | 82.69 | 75.18                | 75.17 | 0.5                             | Pass      |

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

| U-NII-3 MIMO |           |     |     |             |                               |       |       |                                 |       |          |       |           |
|--------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| 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     | 2   | 149 | 5745        | 21.00                         | 20.10 | 23.58 | 30.00                           |       | 3.74     |       | Pass      |
| 11a          | 6Mbps     | 2   | 157 | 5785        | 20.90                         | 20.30 | 23.62 | 30.00                           |       | 3.74     |       | Pass      |
| 11a          | 6Mbps     | 2   | 165 | 5825        | 21.00                         | 20.50 | 23.77 | 30.00                           |       | 3.74     |       | Pass      |
| HT20         | MCS0      | 2   | 149 | 5745        | 20.80                         | 19.90 | 23.38 | 30.00                           |       | 3.74     |       | Pass      |
| HT20         | MCS0      | 2   | 157 | 5785        | 20.60                         | 20.00 | 23.32 | 30.00                           |       | 3.74     |       | Pass      |
| HT20         | MCS0      | 2   | 165 | 5825        | 20.80                         | 20.20 | 23.52 | 30.00                           |       | 3.74     |       | Pass      |
| HT40         | MCS0      | 2   | 151 | 5755        | 20.80                         | 19.90 | 23.38 | 30.00                           |       | 3.74     |       | Pass      |
| HT40         | MCS0      | 2   | 159 | 5795        | 20.50                         | 20.20 | 23.36 | 30.00                           |       | 3.74     |       | Pass      |
| VHT20        | MCS0      | 2   | 149 | 5745        | 20.90                         | 20.00 | 23.48 | 30.00                           |       | 3.74     |       | Pass      |
| VHT20        | MCS0      | 2   | 157 | 5785        | 20.70                         | 20.20 | 23.47 | 30.00                           |       | 3.74     |       | Pass      |
| VHT20        | MCS0      | 2   | 165 | 5825        | 20.90                         | 20.30 | 23.62 | 30.00                           |       | 3.74     |       | Pass      |
| VHT40        | MCS0      | 2   | 151 | 5755        | 20.90                         | 20.00 | 23.48 | 30.00                           |       | 3.74     |       | Pass      |
| VHT40        | MCS0      | 2   | 159 | 5795        | 20.60                         | 20.30 | 23.46 | 30.00                           |       | 3.74     |       | Pass      |
| VHT80        | MCS0      | 2   | 155 | 5775        | 17.70                         | 17.90 | 20.81 | 30.00                           |       | 3.74     |       | Pass      |

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

| U-NII-3 MIMO |           |     |     |             |                                 |       |                                                     |       |       |                                |       |          |       |            |
|--------------|-----------|-----|-----|-------------|---------------------------------|-------|-----------------------------------------------------|-------|-------|--------------------------------|-------|----------|-------|------------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | 10log (500kHz /RBW) Factor (dB) |       | Average Power Density with Duty Factor (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     | 2   | 149 | 5745        | 2.22                            |       | 6.25                                                | 4.94  | 9.26  | 29.51                          |       | 6.49     |       | Pass       |
| 11a          | 6Mbps     | 2   | 157 | 5785        | 2.22                            |       | 5.54                                                | 4.95  | 8.55  | 29.51                          |       | 6.49     |       | Pass       |
| 11a          | 6Mbps     | 2   | 165 | 5825        | 2.22                            |       | 6.13                                                | 5.40  | 9.14  | 29.51                          |       | 6.49     |       | Pass       |
| VHT20        | MCS0      | 2   | 149 | 5745        | 2.22                            |       | 5.66                                                | 4.63  | 8.67  | 29.51                          |       | 6.49     |       | Pass       |
| VHT20        | MCS0      | 2   | 157 | 5785        | 2.22                            |       | 5.26                                                | 4.48  | 8.27  | 29.51                          |       | 6.49     |       | Pass       |
| VHT20        | MCS0      | 2   | 165 | 5825        | 2.22                            |       | 5.78                                                | 5.04  | 8.79  | 29.51                          |       | 6.49     |       | Pass       |
| VHT40        | MCS0      | 2   | 151 | 5755        | 2.22                            |       | 2.39                                                | 1.42  | 5.40  | 29.51                          |       | 6.49     |       | Pass       |
| VHT40        | MCS0      | 2   | 159 | 5795        | 2.22                            |       | 2.20                                                | 1.63  | 5.21  | 29.51                          |       | 6.49     |       | Pass       |
| VHT80        | MCS0      | 2   | 155 | 5775        | 2.22                            |       | -4.00                                               | -3.82 | -0.81 | 29.51                          |       | 6.49     |       | Pass       |

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

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

| U-NII-3 MIMO |           |     |     |             |           |                     |       |                      |       |                      |       |                                 |           |
|--------------|-----------|-----|-----|-------------|-----------|---------------------|-------|----------------------|-------|----------------------|-------|---------------------------------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config | 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 |                                 |           |
| HE20         | MCS0      | 2   | 149 | 5745        | Full      | 19.08               | 19.18 | 30.13                | 32.14 | 18.55                | 18.57 | 0.5                             | Pass      |
| HE20         | MCS0      | 2   | 157 | 5785        | Full      | 18.98               | 19.28 | 26.42                | 35.49 | 18.81                | 18.84 | 0.5                             | Pass      |
| HE20         | MCS0      | 2   | 165 | 5825        | Full      | 19.03               | 19.28 | 28.30                | 38.21 | 18.87                | 18.62 | 0.5                             | Pass      |
| HE40         | MCS0      | 2   | 151 | 5755        | Full      | 38.16               | 38.36 | 54.74                | 77.02 | 37.64                | 37.49 | 0.5                             | Pass      |
| HE40         | MCS0      | 2   | 159 | 5795        | Full      | 37.96               | 38.46 | 41.92                | 65.42 | 37.42                | 37.33 | 0.5                             | Pass      |
| HE80         | MCS0      | 2   | 155 | 5775        | Full      | 77.20               | 77.32 | 82.43                | 82.69 | 76.27                | 76.34 | 0.5                             | Pass      |

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

| U-NII-3 MIMO |           |     |     |             |           |                               |       |       |                                 |       |          |       |           |
|--------------|-----------|-----|-----|-------------|-----------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config | 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 |           |
| HE20         | MCS0      | 2   | 149 | 5745        | Full      | 21.00                         | 20.10 | 23.58 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 149 | 5745        | 26/0      | 11.70                         | 11.10 | 14.42 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 149 | 5745        | 52/37     | 14.30                         | 13.70 | 17.02 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 149 | 5745        | 106/53    | 17.00                         | 16.40 | 19.72 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 157 | 5785        | Full      | 20.80                         | 20.30 | 23.57 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 157 | 5785        | 26/4      | 11.00                         | 11.30 | 14.16 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 157 | 5785        | 52/38     | 14.50                         | 14.30 | 17.41 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 157 | 5785        | 106/53    | 17.10                         | 16.70 | 19.91 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 165 | 5825        | Full      | 21.00                         | 20.40 | 23.72 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 165 | 5825        | 26/8      | 11.10                         | 11.30 | 14.21 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 165 | 5825        | 52/40     | 14.10                         | 14.10 | 17.11 | 30.00                           |       | 3.74     |       | Pass      |
| HE20         | MCS0      | 2   | 165 | 5825        | 106/54    | 16.90                         | 16.90 | 19.91 | 30.00                           |       | 3.74     |       | Pass      |
| HE40         | MCS0      | 2   | 151 | 5755        | Full      | 21.00                         | 20.10 | 23.58 | 30.00                           |       | 3.74     |       | Pass      |
| HE40         | MCS0      | 2   | 151 | 5755        | 242/61    | 18.00                         | 17.50 | 20.77 | 30.00                           |       | 3.74     |       | Pass      |
| HE40         | MCS0      | 2   | 159 | 5795        | Full      | 20.70                         | 20.40 | 23.56 | 30.00                           |       | 3.74     |       | Pass      |
| HE40         | MCS0      | 2   | 159 | 5795        | 242/62    | 17.10                         | 17.30 | 20.21 | 30.00                           |       | 3.74     |       | Pass      |
| HE80         | MCS0      | 2   | 155 | 5775        | Full      | 17.80                         | 18.00 | 20.91 | 30.00                           |       | 3.74     |       | Pass      |
| HE80         | MCS0      | 2   | 155 | 5775        | 484/65    | 15.00                         | 14.60 | 17.81 | 30.00                           |       | 3.74     |       | Pass      |
| HE80         | MCS0      | 2   | 155 | 5775        | 484/66    | 14.60                         | 14.60 | 17.61 | 30.00                           |       | 3.74     |       | Pass      |

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

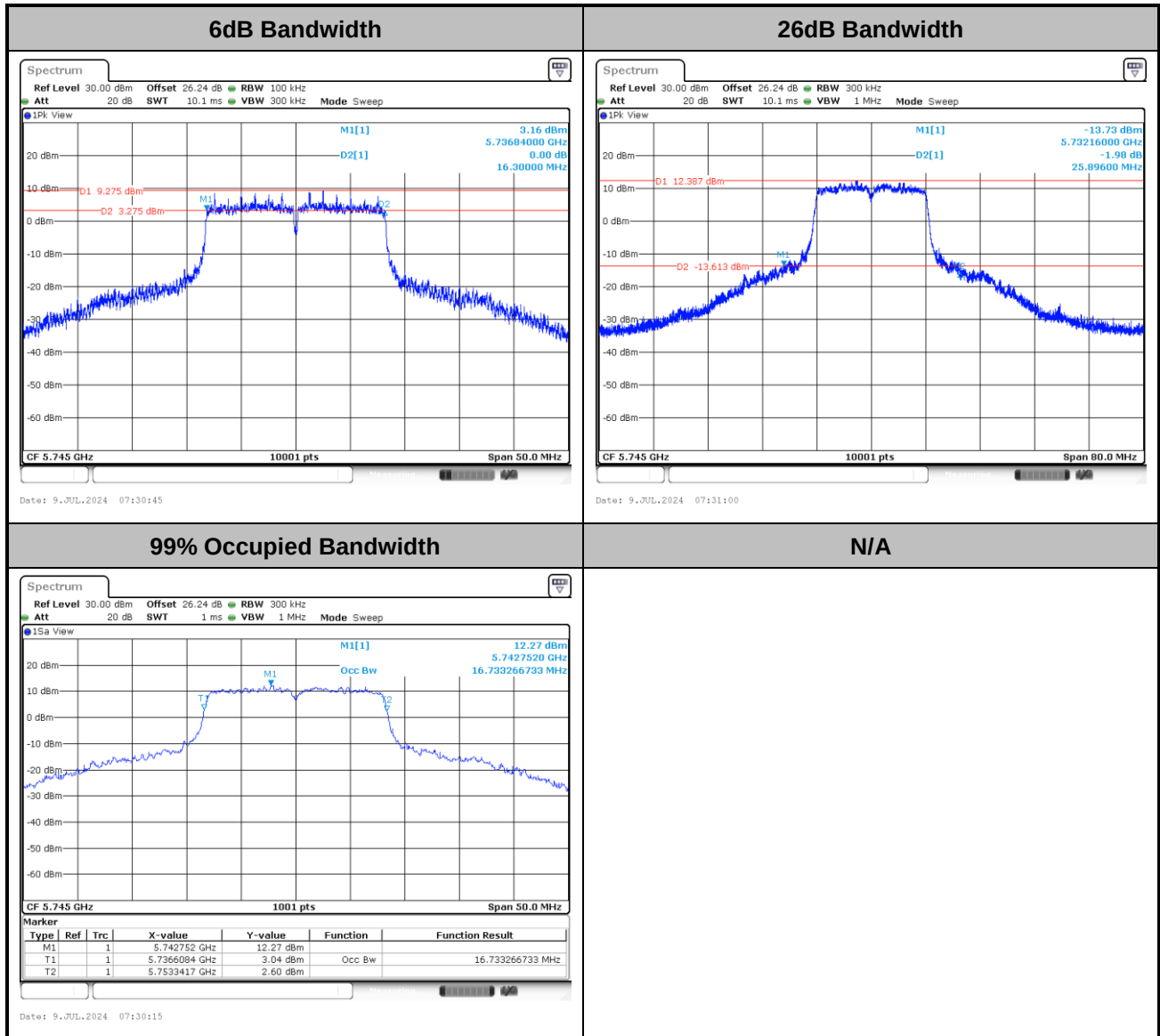
| U-NII-3 MIMO |           |     |     |             |           |                                 |       |                                                     |       |       |                                |       |          |       |            |
|--------------|-----------|-----|-----|-------------|-----------|---------------------------------|-------|-----------------------------------------------------|-------|-------|--------------------------------|-------|----------|-------|------------|
| Mod.         | Data Rate | NTx | CH. | Freq. (MHz) | RU Config | 10log (500kHz /RBW) Factor (dB) |       | Average Power Density with Duty Factor (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 |            |
| HE20         | MCS0      | 2   | 149 | 5745        | Full      | 2.22                            |       | 5.35                                                | 4.12  | 8.36  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 149 | 5745        | 26/0      | 2.22                            |       | 5.33                                                | 4.55  | 8.34  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 149 | 5745        | 52/37     | 2.22                            |       | 5.07                                                | 4.20  | 8.08  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 149 | 5745        | 106/53    | 2.22                            |       | 4.90                                                | 3.97  | 7.91  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 157 | 5785        | Full      | 2.22                            |       | 4.82                                                | 4.18  | 7.83  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 157 | 5785        | 26/4      | 2.22                            |       | 4.44                                                | 4.34  | 7.45  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 157 | 5785        | 52/38     | 2.22                            |       | 4.62                                                | 4.33  | 7.63  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 157 | 5785        | 106/53    | 2.22                            |       | 4.49                                                | 4.02  | 7.50  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 165 | 5825        | Full      | 2.22                            |       | 5.38                                                | 4.65  | 8.39  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 165 | 5825        | 26/8      | 2.22                            |       | 5.07                                                | 4.92  | 8.08  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 165 | 5825        | 52/40     | 2.22                            |       | 4.98                                                | 4.85  | 7.99  | 29.51                          |       | 6.49     |       | Pass       |
| HE20         | MCS0      | 2   | 165 | 5825        | 106/54    | 2.22                            |       | 4.91                                                | 4.56  | 7.92  | 29.51                          |       | 6.49     |       | Pass       |
| HE40         | MCS0      | 2   | 151 | 5755        | Full      | 2.22                            |       | 2.26                                                | 1.00  | 5.27  | 29.51                          |       | 6.49     |       | Pass       |
| HE40         | MCS0      | 2   | 151 | 5755        | 242/61    | 2.22                            |       | 2.22                                                | 1.24  | 5.23  | 29.51                          |       | 6.49     |       | Pass       |
| HE40         | MCS0      | 2   | 159 | 5795        | Full      | 2.22                            |       | 1.91                                                | 1.50  | 4.92  | 29.51                          |       | 6.49     |       | Pass       |
| HE40         | MCS0      | 2   | 159 | 5795        | 242/62    | 2.22                            |       | 1.45                                                | 1.41  | 4.46  | 29.51                          |       | 6.49     |       | Pass       |
| HE80         | MCS0      | 2   | 155 | 5775        | Full      | 2.22                            |       | -3.92                                               | -3.78 | -0.77 | 29.51                          |       | 6.49     |       | Pass       |
| HE80         | MCS0      | 2   | 155 | 5775        | 484/65    | 2.22                            |       | -4.18                                               | -4.93 | -1.17 | 29.51                          |       | 6.49     |       | Pass       |
| HE80         | MCS0      | 2   | 155 | 5775        | 484/66    | 2.22                            |       | -4.36                                               | -4.30 | -1.29 | 29.51                          |       | 6.49     |       | Pass       |

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

**Test Result of 6dB and 26dB and 99% Occupied Bandwidth**

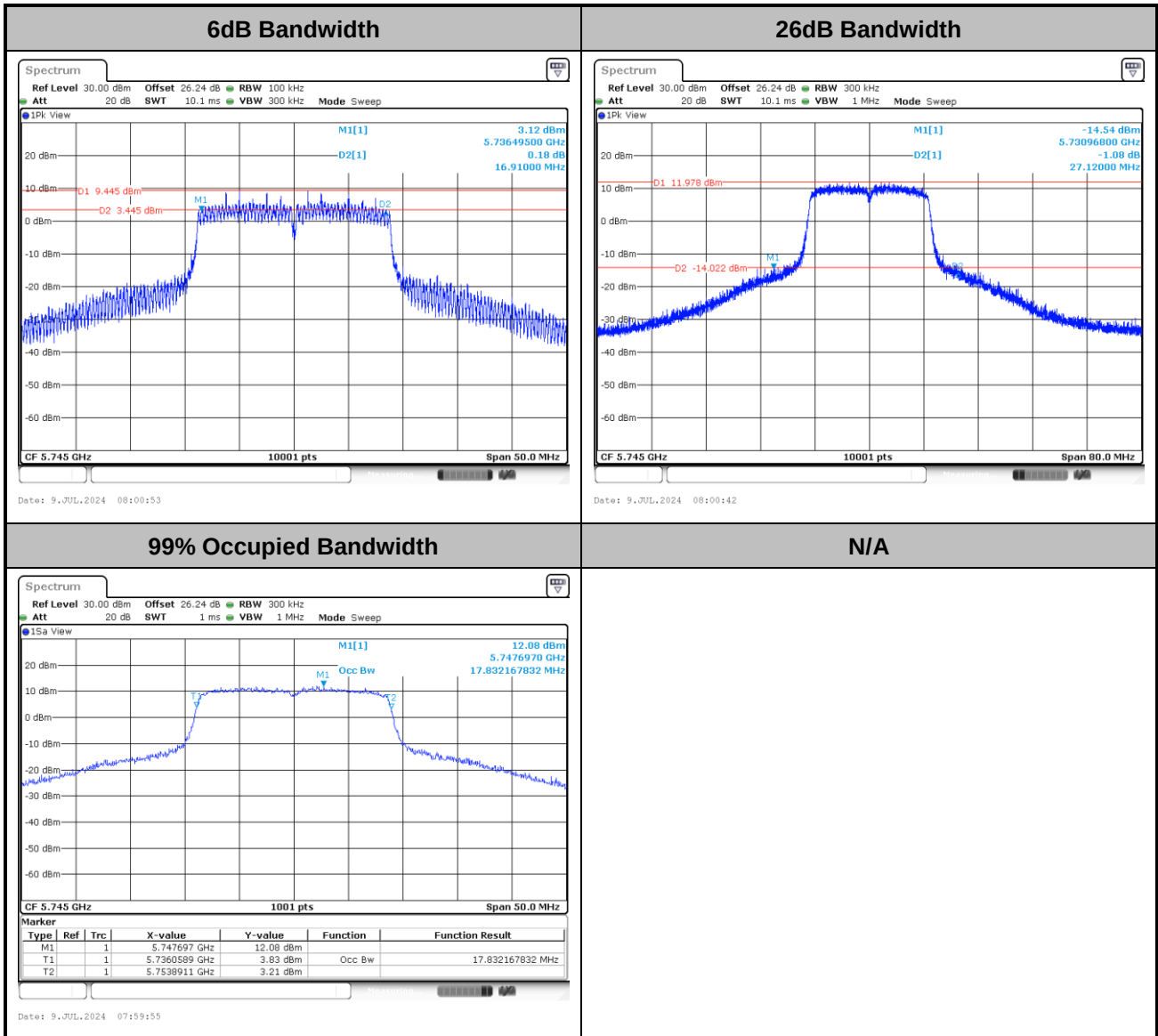
MIMO &lt;Ant. 1+2&gt;

&lt;802.11a&gt;



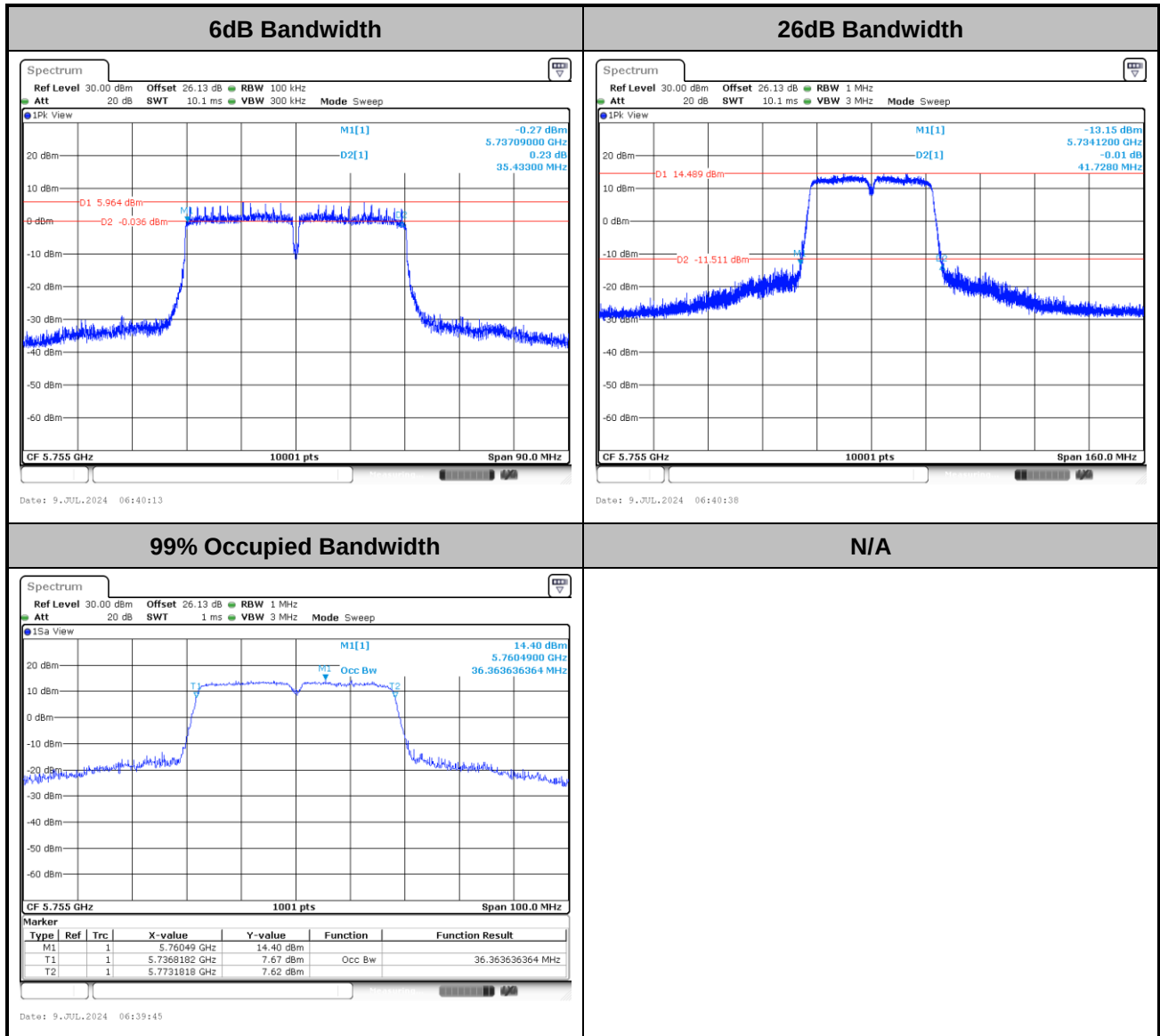


## &lt;802.11ac VHT20&gt;



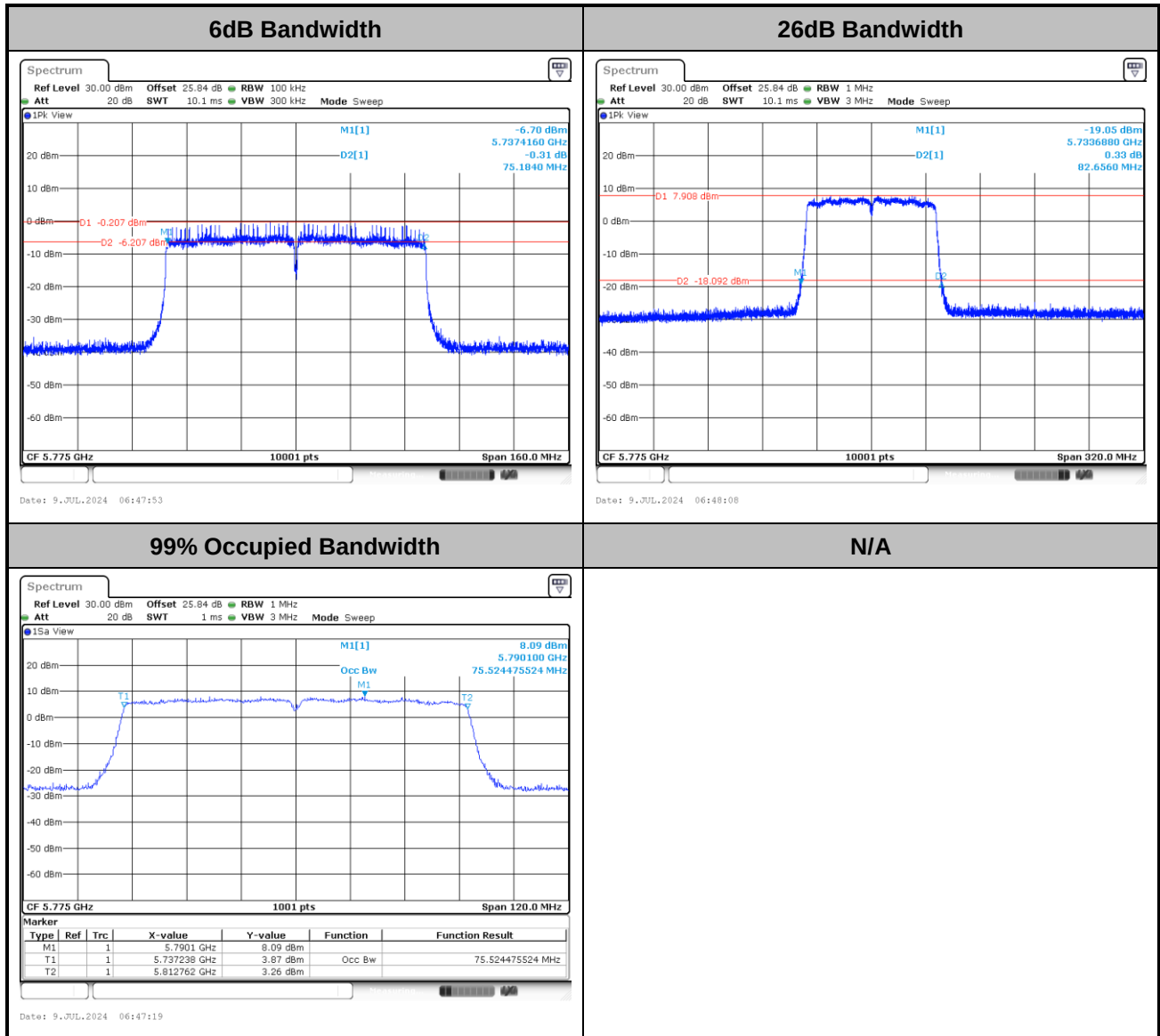


## &lt;802.11ac VHT40&gt;



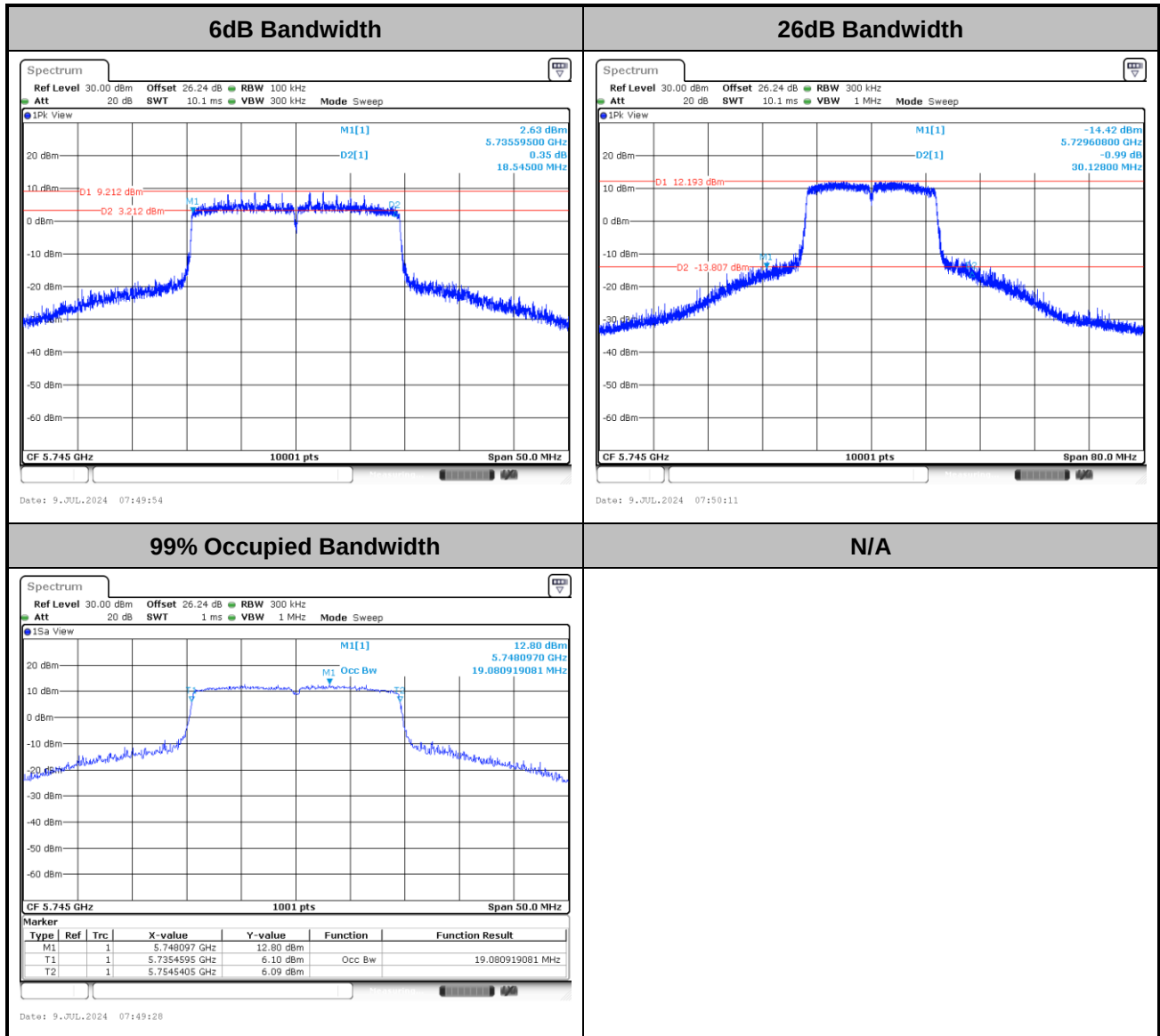


## &lt;802.11ac VHT80&gt;



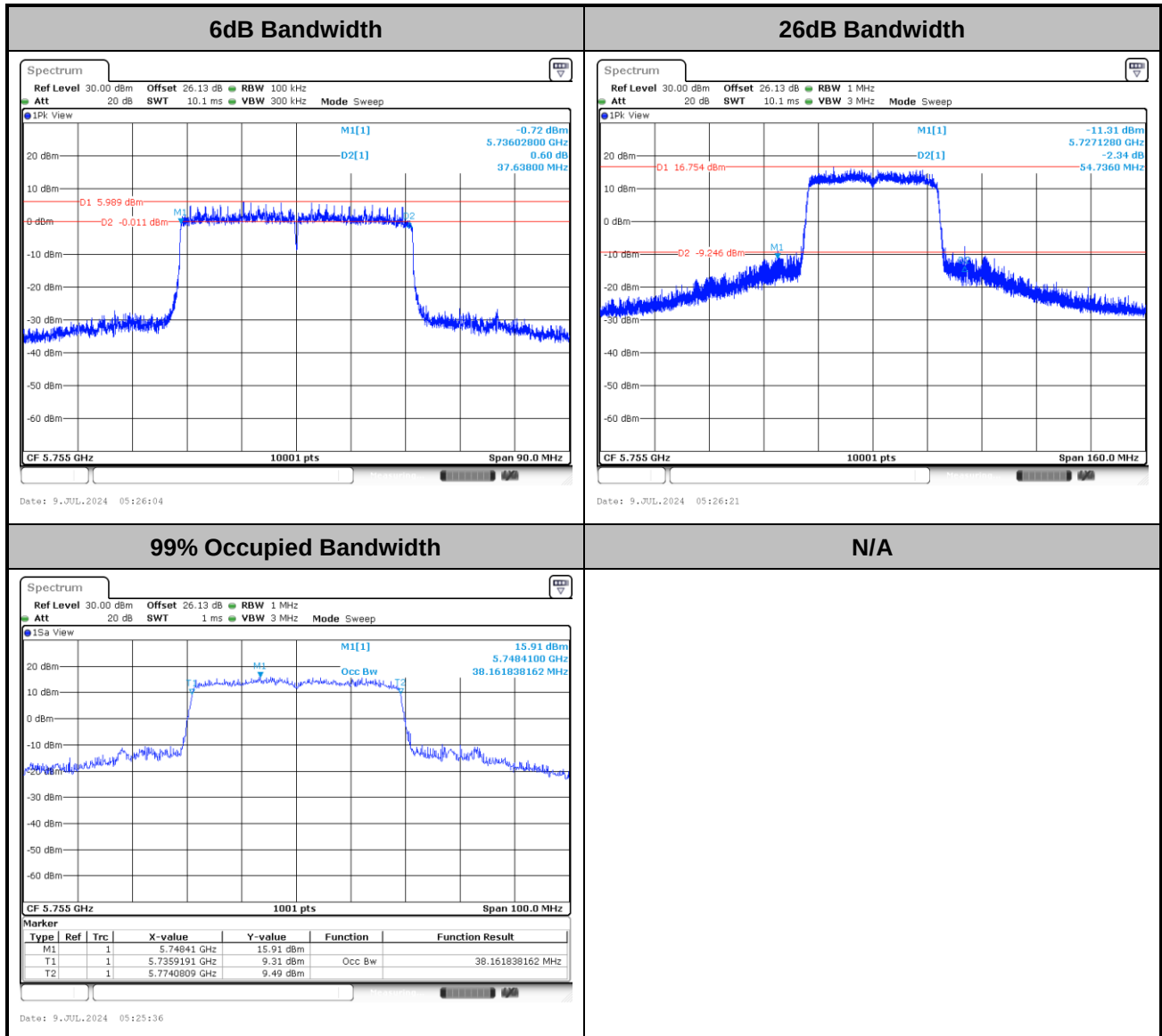


&lt;802.11ax HE20&gt;



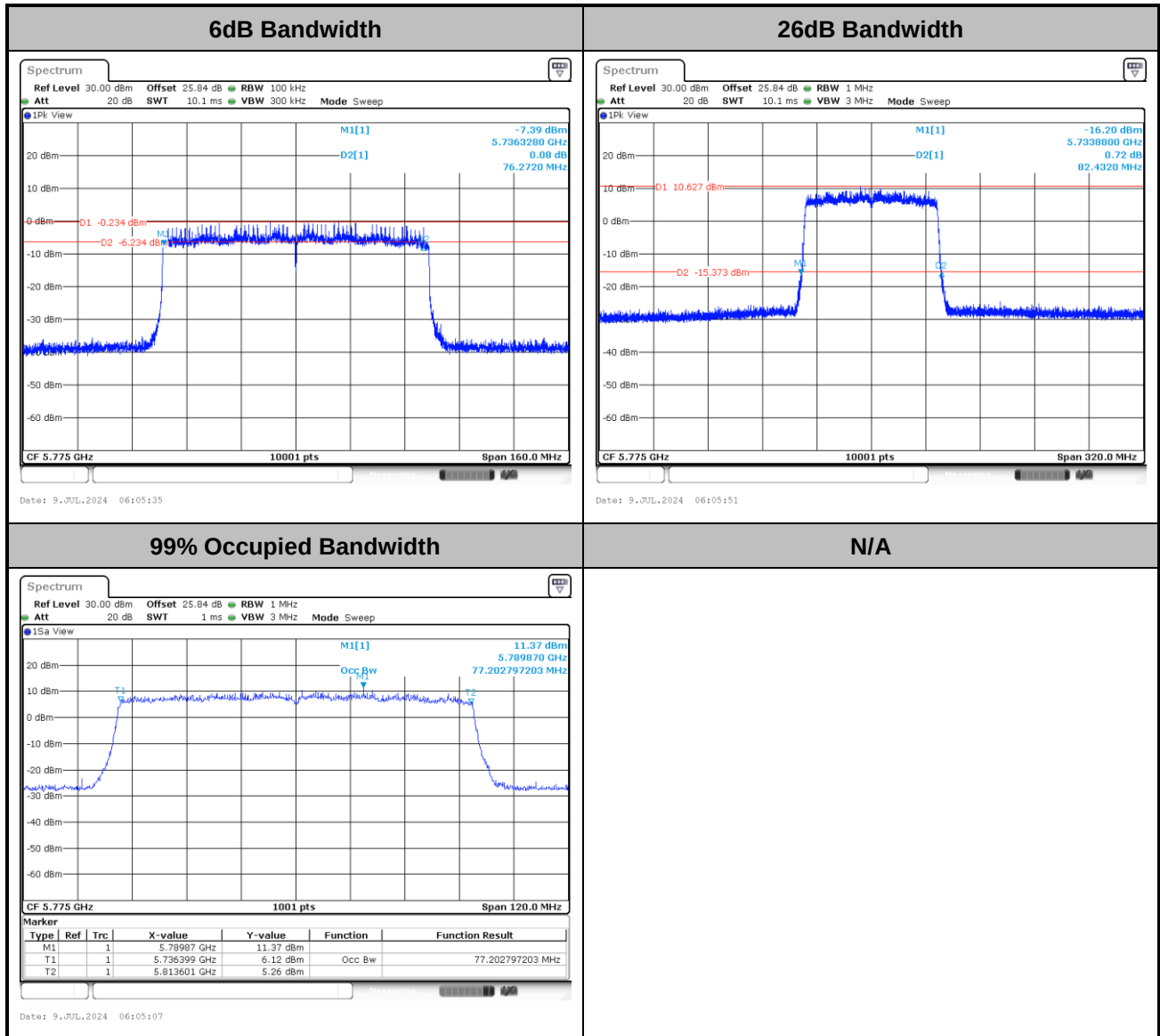


&lt;802.11ax HE40&gt;





## &lt;802.11ax HE80&gt;

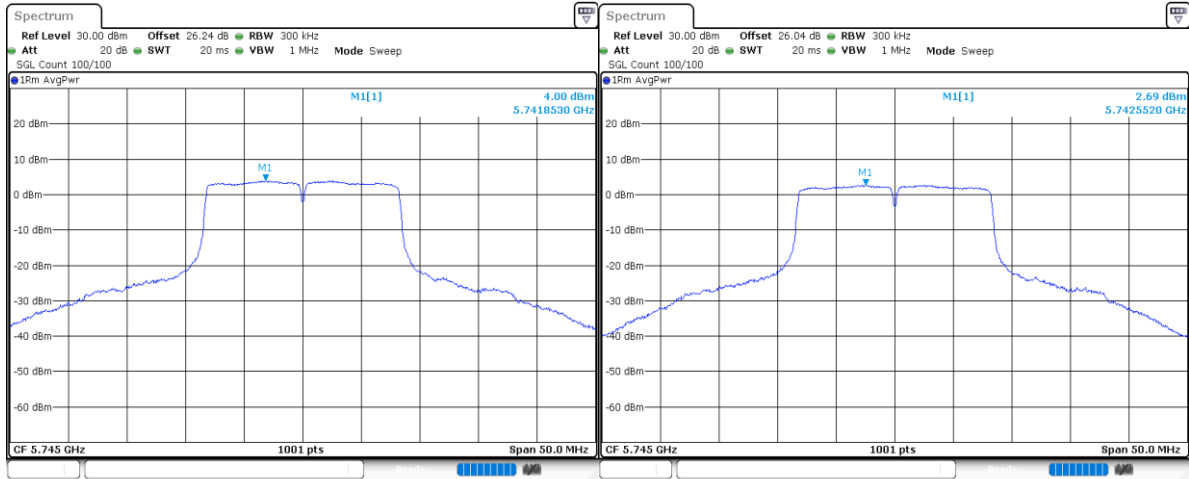




## Test Result of Power Spectral Density

&lt;802.11a&gt;

### Maximum Power Density Plot (dBm/MHz)

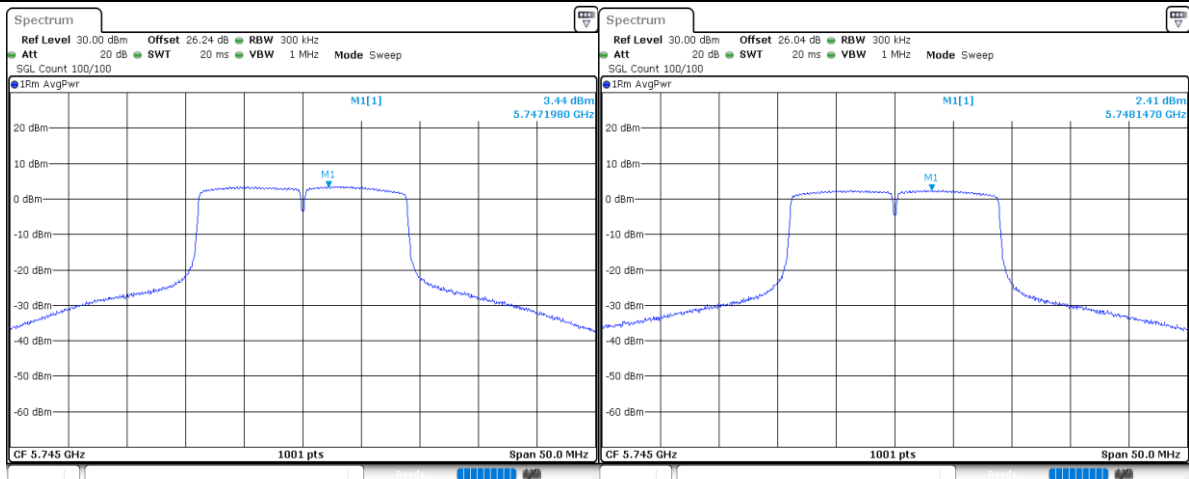


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

&lt;802.11ac VHT20&gt;

### Maximum Power Density Plot (dBm/MHz)



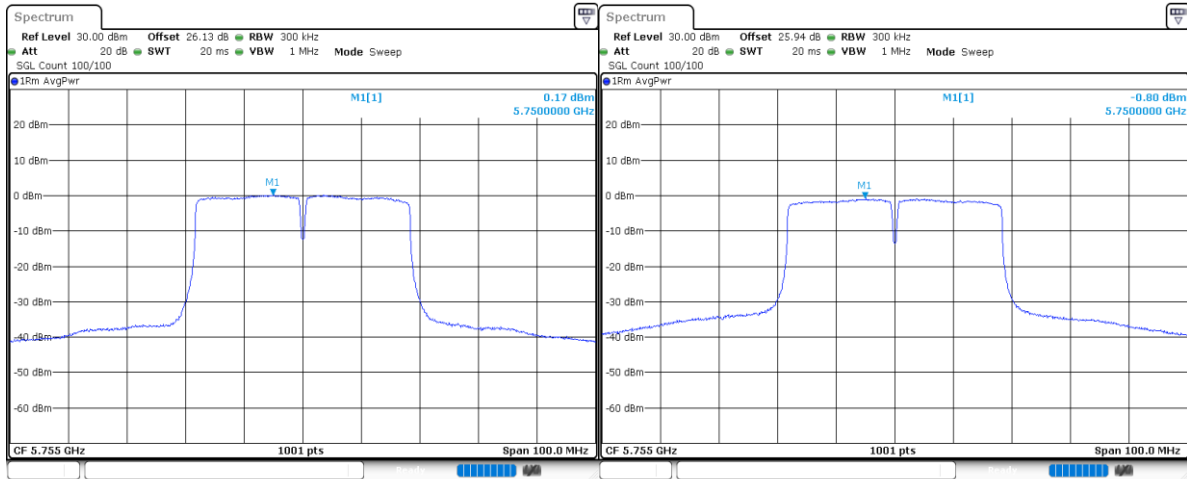
Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



## &lt;802.11ac VHT40&gt;

## Maximum Power Density Plot (dBm/MHz)

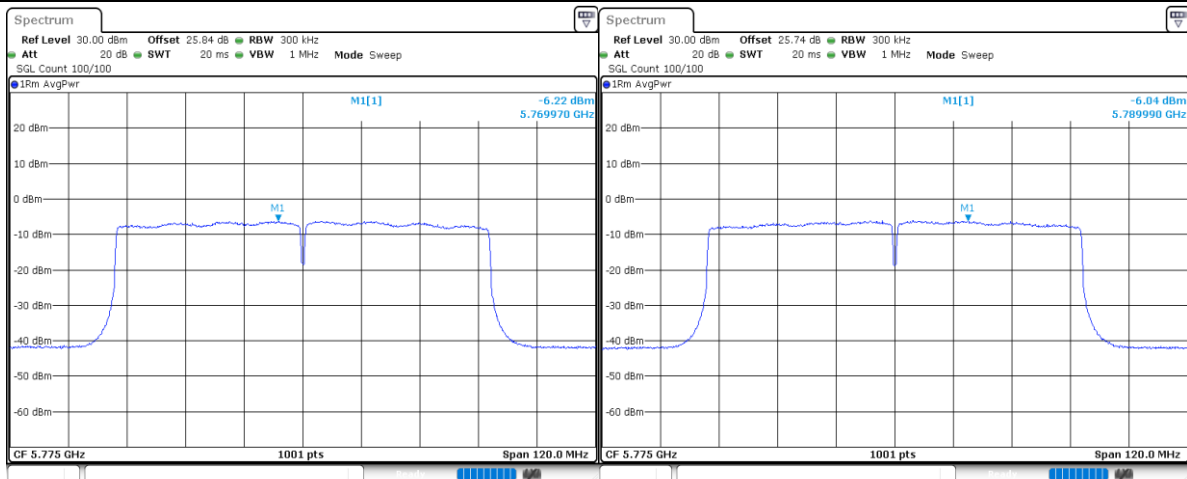


## Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

## &lt;802.11ac VHT80&gt;

## Maximum Power Density Plot (dBm/MHz)



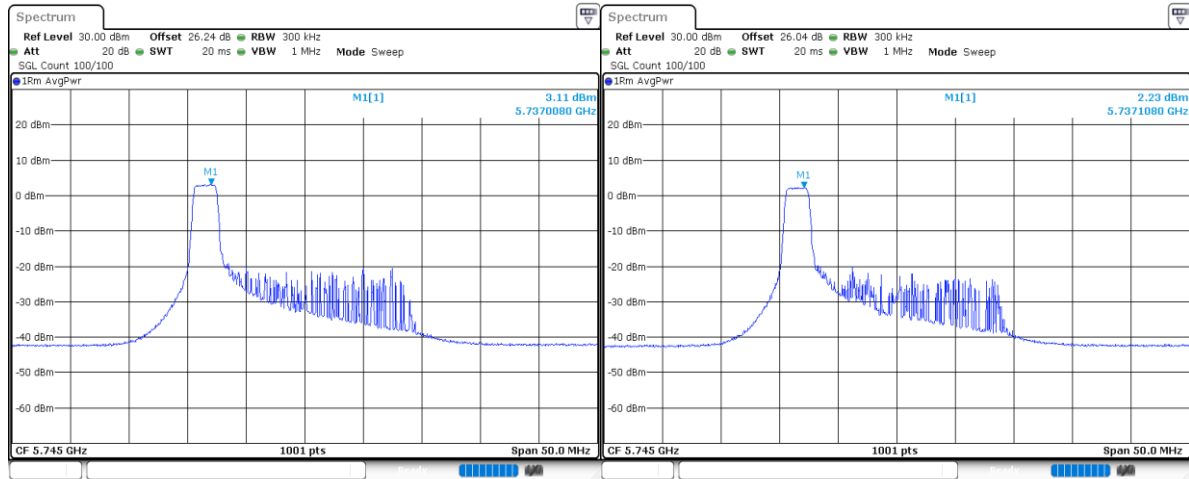
## Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



&lt;802.11ax HE20&gt;

## Maximum Power Density Plot (dBm/MHz)

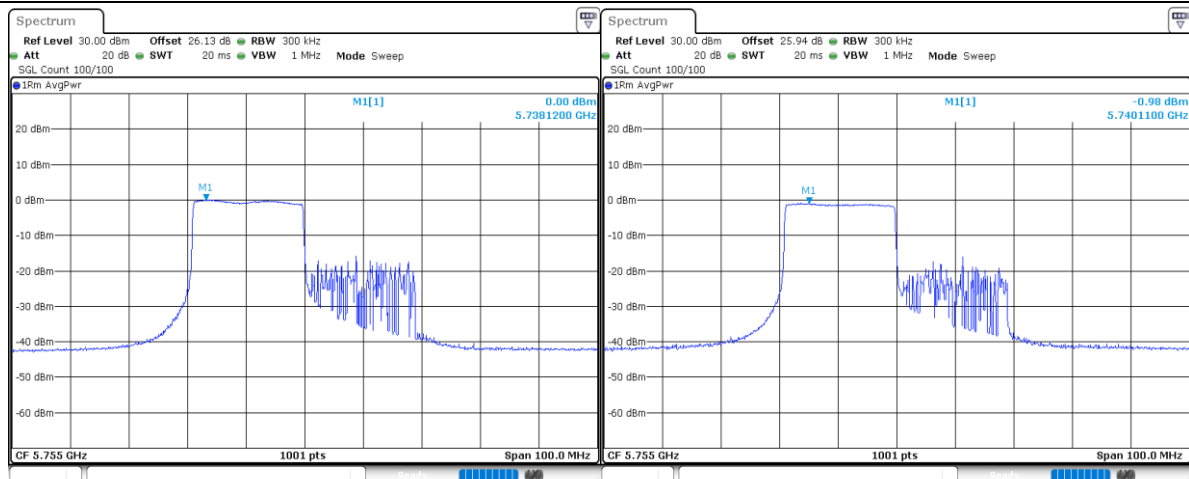


## Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

&lt;802.11ax HE40&gt;

## Maximum Power Density Plot (dBm/MHz)



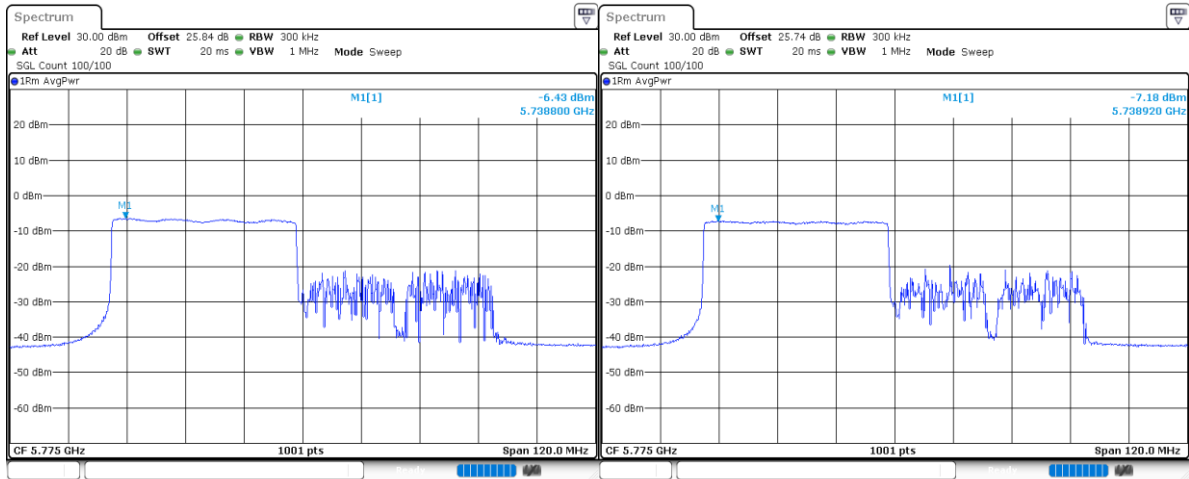
## Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



&lt;802.11ax HE80&gt;

## Maximum Power Density Plot (dBm/MHz)



## Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



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

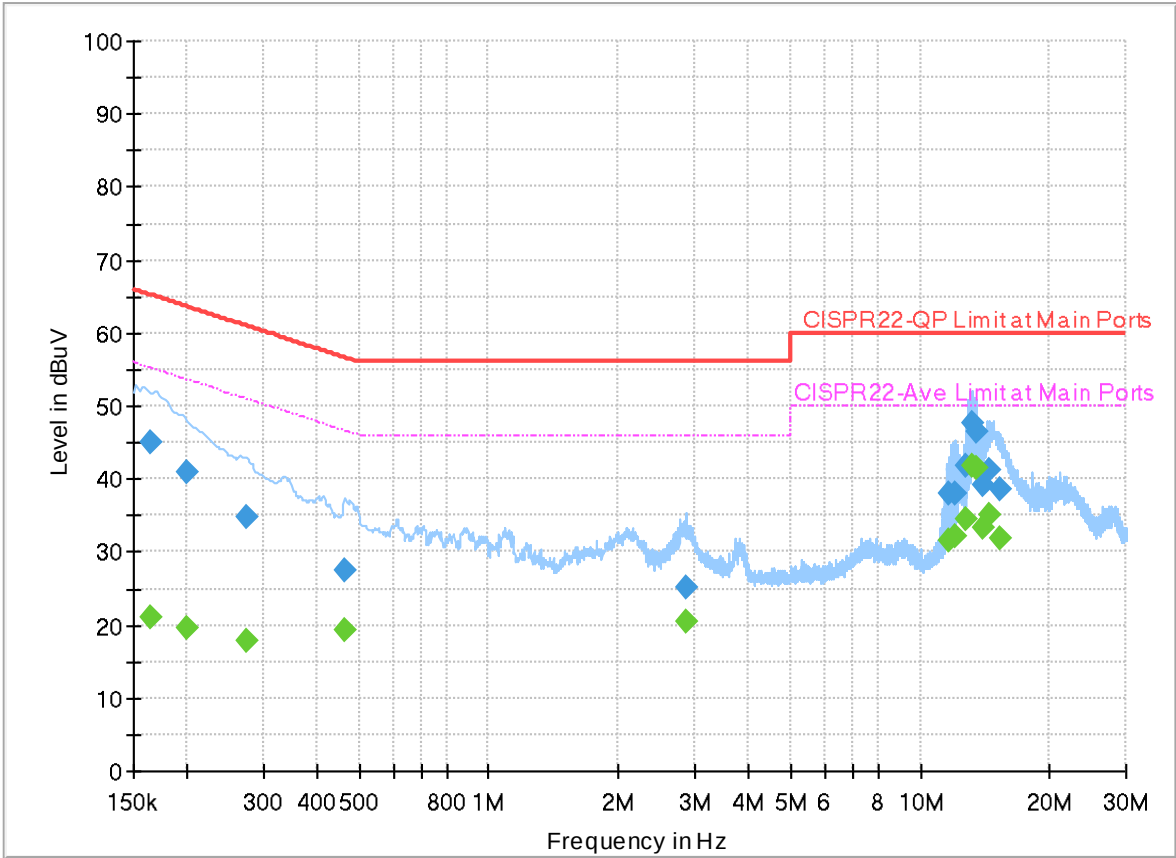
|                        |             |                            |             |
|------------------------|-------------|----------------------------|-------------|
| <b>Test Engineer :</b> | Louis Chung | <b>Temperature :</b>       | 22.3~24.7°C |
|                        |             | <b>Relative Humidity :</b> | 40.4~48.9%  |

EUT Information

Test Mode :  
Test Voltage :  
Phase :

Mode 1  
120Vac/60Hz  
Line

Full Spectrum



Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.163500        | ---              | 21.06           | 55.28        | 34.22       | L1   | OFF    | 19.9       |
| 0.163500        | 45.15            | ---             | 65.28        | 20.13       | L1   | OFF    | 19.9       |
| 0.198330        | ---              | 19.57           | 53.68        | 34.11       | L1   | OFF    | 19.9       |
| 0.198330        | 40.99            | ---             | 63.68        | 22.69       | L1   | OFF    | 19.9       |
| 0.273030        | ---              | 17.87           | 51.03        | 33.16       | L1   | OFF    | 19.9       |
| 0.273030        | 34.81            | ---             | 61.03        | 26.22       | L1   | OFF    | 19.9       |
| 0.462660        | ---              | 19.36           | 46.65        | 27.29       | L1   | OFF    | 19.9       |
| 0.462660        | 27.37            | ---             | 56.65        | 29.28       | L1   | OFF    | 19.9       |
| 2.865750        | ---              | 20.45           | 46.00        | 25.55       | L1   | OFF    | 20.0       |
| 2.865750        | 25.01            | ---             | 56.00        | 30.99       | L1   | OFF    | 20.0       |
| 11.665050       | ---              | 31.57           | 50.00        | 18.43       | L1   | OFF    | 20.1       |
| 11.665050       | 37.88            | ---             | 60.00        | 22.12       | L1   | OFF    | 20.1       |
| 12.030000       | ---              | 32.18           | 50.00        | 17.82       | L1   | OFF    | 20.1       |
| 12.030000       | 38.03            | ---             | 60.00        | 21.97       | L1   | OFF    | 20.1       |
| 12.762600       | ---              | 34.44           | 50.00        | 15.56       | L1   | OFF    | 20.1       |
| 12.762600       | 41.85            | ---             | 60.00        | 18.15       | L1   | OFF    | 20.1       |
| 13.150500       | ---              | 41.81           | 50.00        | 8.19        | L1   | OFF    | 20.1       |
| 13.150500       | 47.70            | ---             | 60.00        | 12.30       | L1   | OFF    | 20.1       |
| 13.558560       | ---              | 41.47           | 50.00        | 8.53        | L1   | OFF    | 20.1       |

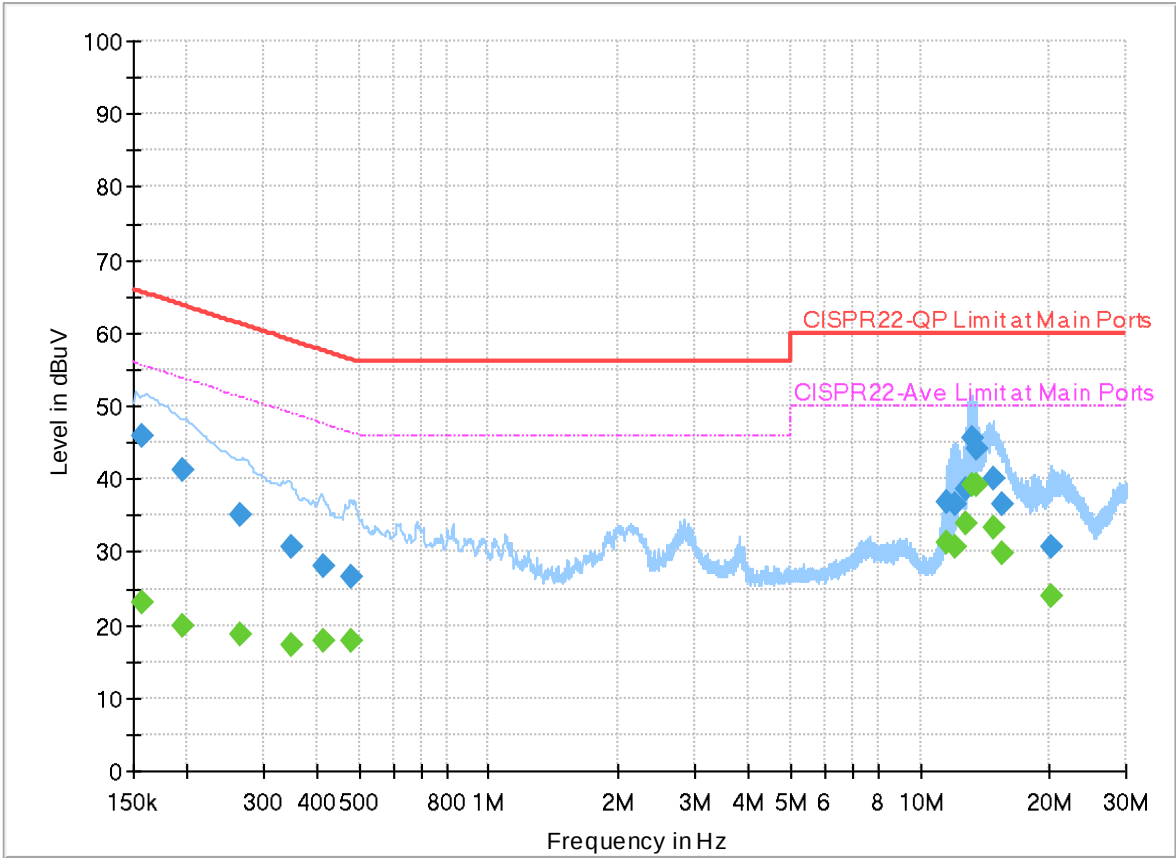
|           |       |       |       |       |    |     |      |
|-----------|-------|-------|-------|-------|----|-----|------|
| 13.558560 | 46.47 | ---   | 60.00 | 13.53 | L1 | OFF | 20.1 |
| 14.057250 | ---   | 33.28 | 50.00 | 16.72 | L1 | OFF | 20.1 |
| 14.057250 | 39.25 | ---   | 60.00 | 20.75 | L1 | OFF | 20.1 |
| 14.547750 | ---   | 34.96 | 50.00 | 15.04 | L1 | OFF | 20.1 |
| 14.547750 | 41.17 | ---   | 60.00 | 18.83 | L1 | OFF | 20.1 |
| 15.256500 | ---   | 31.99 | 50.00 | 18.01 | L1 | OFF | 20.1 |
| 15.256500 | 38.59 | ---   | 60.00 | 21.41 | L1 | OFF | 20.1 |

EUT Information

Test Mode :  
Test Voltage :  
Phase :

Mode 1  
120Vac/60Hz  
Neutral

Full Spectrum



Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.156750        | ---              | 23.10           | 55.63        | 32.53       | N    | OFF    | 19.9       |
| 0.156750        | 45.80            | ---             | 65.63        | 19.83       | N    | OFF    | 19.9       |
| 0.195000        | ---              | 19.99           | 53.82        | 33.83       | N    | OFF    | 19.9       |
| 0.195000        | 41.16            | ---             | 63.82        | 22.66       | N    | OFF    | 19.9       |
| 0.264750        | ---              | 18.62           | 51.28        | 32.66       | N    | OFF    | 19.9       |
| 0.264750        | 35.08            | ---             | 61.28        | 26.20       | N    | OFF    | 19.9       |
| 0.347730        | ---              | 17.17           | 49.02        | 31.85       | N    | OFF    | 19.9       |
| 0.347730        | 30.74            | ---             | 59.02        | 28.28       | N    | OFF    | 19.9       |
| 0.413970        | ---              | 17.96           | 47.57        | 29.61       | N    | OFF    | 19.9       |
| 0.413970        | 27.94            | ---             | 57.57        | 29.63       | N    | OFF    | 19.9       |
| 0.479580        | ---              | 17.76           | 46.35        | 28.59       | N    | OFF    | 19.9       |
| 0.479580        | 26.67            | ---             | 56.35        | 29.68       | N    | OFF    | 19.9       |
| 11.567670       | ---              | 31.25           | 50.00        | 18.75       | N    | OFF    | 20.1       |
| 11.567670       | 36.92            | ---             | 60.00        | 23.08       | N    | OFF    | 20.1       |
| 12.028020       | ---              | 30.65           | 50.00        | 19.35       | N    | OFF    | 20.1       |
| 12.028020       | 36.65            | ---             | 60.00        | 23.35       | N    | OFF    | 20.1       |
| 12.777900       | ---              | 33.96           | 50.00        | 16.04       | N    | OFF    | 20.1       |
| 12.777900       | 38.52            | ---             | 60.00        | 21.48       | N    | OFF    | 20.1       |
| 13.244640       | ---              | 39.24           | 50.00        | 10.76       | N    | OFF    | 20.1       |

|           |       |       |       |       |   |     |      |
|-----------|-------|-------|-------|-------|---|-----|------|
| 13.244640 | 45.64 | ---   | 60.00 | 14.36 | N | OFF | 20.1 |
| 13.555140 | ---   | 39.24 | 50.00 | 10.76 | N | OFF | 20.1 |
| 13.555140 | 44.27 | ---   | 60.00 | 15.73 | N | OFF | 20.1 |
| 14.756820 | ---   | 33.31 | 50.00 | 16.69 | N | OFF | 20.1 |
| 14.756820 | 39.93 | ---   | 60.00 | 20.07 | N | OFF | 20.1 |
| 15.549000 | ---   | 29.91 | 50.00 | 20.09 | N | OFF | 20.2 |
| 15.549000 | 36.65 | ---   | 60.00 | 23.35 | N | OFF | 20.2 |
| 20.188500 | ---   | 24.10 | 50.00 | 25.90 | N | OFF | 20.2 |
| 20.188500 | 30.72 | ---   | 60.00 | 29.28 | N | OFF | 20.2 |



## Appendix C. Radiated Spurious Emission

|                 |                                             |                     |             |
|-----------------|---------------------------------------------|---------------------|-------------|
| Test Engineer : | Ken Kuo, Bank Lin, Fred Tseng, and Karl Hou | Temperature :       | 20.8~24.8°C |
|                 |                                             | Relative Humidity : | 52.4~63.8%  |

## Band 4 - 5725~5850MHz

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

| WIFI                         | Note | Frequency | Level      | Margin | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                         |      |           |            |        | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                          |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 149<br>5745MHz |      | 5649.95   | 59.75      | -8.45  | 68.2       | 47.16    | 33.5     | 13.44  | 34.35  | 173    | 0       | P       | H       |
|                              |      | 5698.775  | 80.79      | -23.51 | 104.3      | 67.96    | 33.7     | 13.52  | 34.39  | 173    | 0       | P       | H       |
|                              |      | 5718.575  | 86.78      | -23.62 | 110.4      | 73.83    | 33.81    | 13.55  | 34.41  | 173    | 0       | P       | H       |
|                              |      | 5722.4    | 89.76      | -26.51 | 116.27     | 76.79    | 33.83    | 13.55  | 34.41  | 173    | 0       | P       | H       |
|                              | *    | 5745      | 120.95     | -      | -          | 107.82   | 33.97    | 13.59  | 34.43  | 173    | 0       | P       | H       |
|                              | *    | 5745      | 113.3      | -      | -          | 100.17   | 33.97    | 13.59  | 34.43  | 173    | 0       | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5644.55   | 57.43      | -10.77 | 68.2       | 44.87    | 33.47    | 13.44  | 34.35  | 101    | 0       | P       | V       |
|                              |      | 5697.65   | 74.12      | -29.35 | 103.47     | 61.3     | 33.69    | 13.52  | 34.39  | 101    | 0       | P       | V       |
|                              |      | 5719.475  | 83.23      | -27.42 | 110.65     | 70.27    | 33.82    | 13.55  | 34.41  | 101    | 0       | P       | V       |
|                              |      | 5724.425  | 86.15      | -34.74 | 120.89     | 73.15    | 33.85    | 13.56  | 34.41  | 101    | 0       | P       | V       |
|                              | *    | 5745      | 114.77     | -      | -          | 101.64   | 33.97    | 13.59  | 34.43  | 101    | 0       | P       | V       |
|                              | *    | 5745      | 107.39     | -      | -          | 94.26    | 33.97    | 13.59  | 34.43  | 101    | 0       | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |



| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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> |      | 5647                 | 52.27               | -15.93           | 68.2                        | 39.7                      | 33.48                         | 13.44                  | 34.35                      | 246                  | 0                       | P                       | H               |
|                                       |      | 5698.25              | 60.06               | -43.85           | 103.91                      | 47.24                     | 33.69                         | 13.52                  | 34.39                      | 246                  | 0                       | P                       | H               |
|                                       |      | 5719.25              | 66.6                | -43.99           | 110.59                      | 53.64                     | 33.82                         | 13.55                  | 34.41                      | 246                  | 0                       | P                       | H               |
|                                       |      | 5724.25              | 69.29               | -51.2            | 120.49                      | 56.29                     | 33.85                         | 13.56                  | 34.41                      | 246                  | 0                       | P                       | H               |
|                                       | *    | 5785                 | 120.36              | -                | -                           | 107.17                    | 34                            | 13.65                  | 34.46                      | 246                  | 0                       | P                       | H               |
|                                       | *    | 5785                 | 113.24              | -                | -                           | 100.05                    | 34                            | 13.65                  | 34.46                      | 246                  | 0                       | A                       | H               |
|                                       |      | 5853                 | 67.56               | -47.8            | 115.36                      | 54.45                     | 33.91                         | 13.71                  | 34.51                      | 246                  | 0                       | P                       | H               |
|                                       |      | 5858.25              | 65.68               | -44.21           | 109.89                      | 52.56                     | 33.92                         | 13.71                  | 34.51                      | 246                  | 0                       | P                       | H               |
|                                       |      | 5875.5               | 59.52               | -45.31           | 104.83                      | 46.38                     | 33.95                         | 13.72                  | 34.53                      | 246                  | 0                       | P                       | H               |
|                                       |      | 5928.75              | 54.64               | -13.56           | 68.2                        | 41.45                     | 34                            | 13.76                  | 34.57                      | 246                  | 0                       | P                       | H               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      | 5636.75              | 51                  | -17.2            | 68.2                        | 38.49                     | 33.42                         | 13.43                  | 34.34                      | 400                  | 98                      | P                       | V               |
|                                       |      | 5696.75              | 58.24               | -44.56           | 102.8                       | 45.42                     | 33.69                         | 13.52                  | 34.39                      | 400                  | 98                      | P                       | V               |
|                                       |      | 5720                 | 65.69               | -45.11           | 110.8                       | 52.73                     | 33.82                         | 13.55                  | 34.41                      | 400                  | 98                      | P                       | V               |
|                                       |      | 5724.25              | 67.16               | -53.33           | 120.49                      | 54.16                     | 33.85                         | 13.56                  | 34.41                      | 400                  | 98                      | P                       | V               |
|                                       | *    | 5785                 | 115.35              | -                | -                           | 102.16                    | 34                            | 13.65                  | 34.46                      | 400                  | 98                      | P                       | V               |
|                                       | *    | 5785                 | 108.27              | -                | -                           | 95.08                     | 34                            | 13.65                  | 34.46                      | 400                  | 98                      | A                       | V               |
|                                       |      | 5852.25              | 63.49               | -53.58           | 117.07                      | 50.39                     | 33.9                          | 13.71                  | 34.51                      | 400                  | 98                      | P                       | V               |
|                                       |      | 5855.5               | 60.25               | -50.41           | 110.66                      | 47.14                     | 33.91                         | 13.71                  | 34.51                      | 400                  | 98                      | P                       | V               |
|                                       |      | 5881.25              | 53.51               | -47.05           | 100.56                      | 40.35                     | 33.96                         | 13.73                  | 34.53                      | 400                  | 98                      | P                       | V               |
|                                       |      | 5929.75              | 51.99               | -16.21           | 68.2                        | 38.8                      | 34                            | 13.76                  | 34.57                      | 400                  | 98                      | P                       | V               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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                 | 118.62              | -                | -                           | 105.47                    | 33.95                         | 13.69                  | 34.49                      | 132                  | 0                       | P                       | H               |
|                                       | *                                                                                           | 5825                 | 111.84              | -                | -                           | 98.69                     | 33.95                         | 13.69                  | 34.49                      | 132                  | 0                       | A                       | H               |
|                                       |                                                                                             | 5852.2               | 74                  | -43.18           | 117.18                      | 60.9                      | 33.9                          | 13.71                  | 34.51                      | 132                  | 0                       | P                       | H               |
|                                       |                                                                                             | 5856.2               | 70.18               | -40.28           | 110.46                      | 57.07                     | 33.91                         | 13.71                  | 34.51                      | 132                  | 0                       | P                       | H               |
|                                       |                                                                                             | 5876.2               | 53.96               | -50.35           | 104.31                      | 40.82                     | 33.95                         | 13.72                  | 34.53                      | 132                  | 0                       | P                       | H               |
|                                       |                                                                                             | 5925.4               | 51.57               | -16.63           | 68.2                        | 38.37                     | 34                            | 13.76                  | 34.56                      | 132                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       | *                                                                                           | 5825                 | 114.76              | -                | -                           | 101.61                    | 33.95                         | 13.69                  | 34.49                      | 100                  | 4                       | P                       | V               |
|                                       | *                                                                                           | 5825                 | 107.66              | -                | -                           | 94.51                     | 33.95                         | 13.69                  | 34.49                      | 100                  | 4                       | A                       | V               |
|                                       |                                                                                             | 5850.2               | 70.29               | -51.45           | 121.74                      | 57.19                     | 33.9                          | 13.71                  | 34.51                      | 100                  | 4                       | P                       | V               |
|                                       |                                                                                             | 5855                 | 67.3                | -43.5            | 110.8                       | 54.19                     | 33.91                         | 13.71                  | 34.51                      | 100                  | 4                       | P                       | V               |
|                                       |                                                                                             | 5878.6               | 52.23               | -50.3            | 102.53                      | 39.07                     | 33.96                         | 13.73                  | 34.53                      | 100                  | 4                       | P                       | V               |
|                                       |                                                                                             | 5925.2               | 51.78               | -16.42           | 68.2                        | 38.58                     | 34                            | 13.76                  | 34.56                      | 100                  | 4                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2          | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 |      | 1264                 | 56.42               | -11.78           | 68.2                        | 57.73                     | 24.3                          | 6.18                   | 31.79                      | 173                  | 0                       | P                       | H               |
|                              |      | 1336                 | 54.34               | -19.66           | 74                          | 55.37                     | 24.44                         | 6.33                   | 31.8                       | 177                  | 60                      | P                       | H               |
|                              |      | 1336                 | 44.59               | -9.41            | 54                          | 45.62                     | 24.44                         | 6.33                   | 31.8                       | 177                  | 60                      | A                       | H               |
|                              |      | 1858                 | 48.39               | -19.81           | 68.2                        | 47.67                     | 25.28                         | 7.48                   | 32.04                      | 173                  | 0                       | P                       | H               |
|                              |      | 11490                | 50.2                | -23.8            | 74                          | 31.07                     | 38.98                         | 20.12                  | 39.97                      | -                    | -                       | P                       | H               |
|                              |      | 11490                | 40.82               | -13.18           | 54                          | 21.69                     | 38.98                         | 20.12                  | 39.97                      | -                    | -                       | A                       | H               |
|                              |      | 17235                | 50.59               | -17.61           | 68.2                        | 31.57                     | 40.57                         | 24.72                  | 46.27                      | -                    | -                       | P                       | H               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      | 1264                 | 52.57               | -15.63           | 68.2                        | 53.88                     | 24.3                          | 6.18                   | 31.79                      | 101                  | 0                       | P                       | V               |
|                              |      | 1336                 | 53.35               | -20.65           | 74                          | 54.38                     | 24.44                         | 6.33                   | 31.8                       | 195                  | 188                     | P                       | V               |
|                              |      | 1336                 | 47.08               | -6.92            | 54                          | 48.11                     | 24.44                         | 6.33                   | 31.8                       | 195                  | 188                     | A                       | V               |
|                              |      | 1858                 | 49.17               | -19.03           | 68.2                        | 48.45                     | 25.28                         | 7.48                   | 32.04                      | 101                  | 0                       | P                       | V               |
|                              |      | 11490                | 50.4                | -23.6            | 74                          | 31.27                     | 38.98                         | 20.12                  | 39.97                      | -                    | -                       | P                       | V               |
|                              |      | 11490                | 40.68               | -13.32           | 54                          | 21.55                     | 38.98                         | 20.12                  | 39.97                      | -                    | -                       | A                       | V               |
|                              |      | 17235                | 50.61               | -17.59           | 68.2                        | 31.59                     | 40.57                         | 24.72                  | 46.27                      | -                    | -                       | P                       | V               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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> |      | 1264                 | 51.61               | -16.59           | 68.2                        | 52.92                     | 24.3                          | 6.18                   | 31.79                      | 246                  | 0                       | P                       | H               |
|                                       |      | 1336                 | 55.07               | -18.93           | 74                          | 56.1                      | 24.44                         | 6.33                   | 31.8                       | 182                  | 57                      | P                       | H               |
|                                       |      | 1336                 | 45.07               | -8.93            | 54                          | 46.1                      | 24.44                         | 6.33                   | 31.8                       | 182                  | 57                      | A                       | H               |
|                                       |      | 1858                 | 51.57               | -16.63           | 68.2                        | 50.85                     | 25.28                         | 7.48                   | 32.04                      | 246                  | 0                       | P                       | H               |
|                                       |      | 11570                | 51.52               | -22.48           | 74                          | 32.32                     | 39.06                         | 20.19                  | 40.05                      | -                    | -                       | P                       | H               |
|                                       |      | 11570                | 40.87               | -13.13           | 54                          | 21.67                     | 39.06                         | 20.19                  | 40.05                      | -                    | -                       | A                       | H               |
|                                       |      | 17355                | 49.91               | -18.29           | 68.2                        | 30.99                     | 40.5                          | 24.82                  | 46.4                       | -                    | -                       | P                       | H               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |      | 1264                 | 47.96               | -20.24           | 68.2                        | 49.27                     | 24.3                          | 6.18                   | 31.79                      | 400                  | 98                      | P                       | V               |
|                                       |      | 1336                 | 54.16               | -19.84           | 74                          | 55.19                     | 24.44                         | 6.33                   | 31.8                       | 199                  | 189                     | P                       | V               |
|                                       |      | 1336                 | 47.85               | -6.15            | 54                          | 48.88                     | 24.44                         | 6.33                   | 31.8                       | 199                  | 189                     | A                       | V               |
|                                       |      | 1858                 | 40.07               | -28.13           | 68.2                        | 39.35                     | 25.28                         | 7.48                   | 32.04                      | 400                  | 98                      | P                       | V               |
|                                       |      | 11570                | 51.34               | -22.66           | 74                          | 32.14                     | 39.06                         | 20.19                  | 40.05                      | -                    | -                       | P                       | V               |
|                                       |      | 11570                | 40.96               | -13.04           | 54                          | 21.76                     | 39.06                         | 20.19                  | 40.05                      | -                    | -                       | A                       | V               |
|                                       |      | 17355                | 50.26               | -17.94           | 68.2                        | 31.34                     | 40.5                          | 24.82                  | 46.4                       | -                    | -                       | P                       | V               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                   | Note                                                                                                                                    | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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> |                                                                                                                                         | 1264                 | 51.82               | -16.38           | 68.2                        | 53.13                     | 24.3                          | 6.18                   | 31.79                      | 132                  | 0                       | P                       | H               |
|                                       |                                                                                                                                         | 1336                 | 54.08               | -19.92           | 74                          | 55.11                     | 24.44                         | 6.33                   | 31.8                       | 178                  | 54                      | P                       | H               |
|                                       |                                                                                                                                         | 1336                 | 44.42               | -9.58            | 54                          | 45.45                     | 24.44                         | 6.33                   | 31.8                       | 178                  | 54                      | A                       | H               |
|                                       |                                                                                                                                         | 2152                 | 47.14               | -21.06           | 68.2                        | 44.87                     | 26.4                          | 8.08                   | 32.21                      | 132                  | 0                       | P                       | H               |
|                                       |                                                                                                                                         | 11650                | 50.82               | -23.18           | 74                          | 31.69                     | 39                            | 20.27                  | 40.14                      | -                    | -                       | P                       | H               |
|                                       |                                                                                                                                         | 11650                | 40.96               | -13.04           | 54                          | 21.83                     | 39                            | 20.27                  | 40.14                      | -                    | -                       | A                       | H               |
|                                       |                                                                                                                                         | 17475                | 50.14               | -18.06           | 68.2                        | 31.15                     | 40.6                          | 24.91                  | 46.52                      | -                    | -                       | P                       | H               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                                                                         | 1264                 | 54.24               | -13.96           | 68.2                        | 55.55                     | 24.3                          | 6.18                   | 31.79                      | 100                  | 4                       | P                       | V               |
|                                       |                                                                                                                                         | 1336                 | 54.02               | -19.98           | 74                          | 55.05                     | 24.44                         | 6.33                   | 31.8                       | 201                  | 184                     | P                       | V               |
|                                       |                                                                                                                                         | 1336                 | 47.23               | -6.77            | 54                          | 48.26                     | 24.44                         | 6.33                   | 31.8                       | 201                  | 184                     | A                       | V               |
|                                       |                                                                                                                                         | 1858                 | 48.04               | -20.16           | 68.2                        | 47.32                     | 25.28                         | 7.48                   | 32.04                      | 100                  | 4                       | P                       | V               |
|                                       |                                                                                                                                         | 11650                | 50.68               | -23.32           | 74                          | 31.55                     | 39                            | 20.27                  | 40.14                      | -                    | -                       | P                       | V               |
|                                       |                                                                                                                                         | 11650                | 40.98               | -13.02           | 54                          | 21.85                     | 39                            | 20.27                  | 40.14                      | -                    | -                       | A                       | V               |
|                                       |                                                                                                                                         | 17475                | 51.47               | -16.73           | 68.2                        | 32.48                     | 40.6                          | 24.91                  | 46.52                      | -                    | -                       | P                       | V               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                                                                         |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                         | 1. No other spurious found.                                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                       | 2. All results are PASS against Peak and Average limit line.                                                                            |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                       | 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |

**Band 4 5725~5850MHz****WIFI 802.11ax HE20\_Full (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                                  | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11ax<br/>HE20 Full<br/>CH 149<br/>5745MHz</b> |      | 5648.375             | 54.46               | -13.74           | 68.2                        | 41.88                     | 33.49                         | 13.44                  | 34.35                      | 249                  | 0                       | P                       | H               |
|                                                      |      | 5699                 | 62.11               | -42.35           | 104.46                      | 49.28                     | 33.7                          | 13.52                  | 34.39                      | 249                  | 0                       | P                       | H               |
|                                                      |      | 5719.475             | 85.09               | -25.56           | 110.65                      | 72.13                     | 33.82                         | 13.55                  | 34.41                      | 249                  | 0                       | P                       | H               |
|                                                      |      | 5723.525             | 85.75               | -33.09           | 118.84                      | 72.76                     | 33.84                         | 13.56                  | 34.41                      | 249                  | 0                       | P                       | H               |
|                                                      | *    | 5745                 | 121.04              | -                | -                           | 107.91                    | 33.97                         | 13.59                  | 34.43                      | 249                  | 0                       | P                       | H               |
|                                                      | *    | 5745                 | 113.23              | -                | -                           | 100.1                     | 33.97                         | 13.59                  | 34.43                      | 249                  | 0                       | A                       | H               |
|                                                      |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                      |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                      |      | 5613.5               | 51.44               | -16.76           | 68.2                        | 39.1                      | 33.28                         | 13.39                  | 34.33                      | 100                  | 326                     | P                       | V               |
|                                                      |      | 5699.675             | 56.23               | -48.73           | 104.96                      | 43.4                      | 33.7                          | 13.52                  | 34.39                      | 100                  | 326                     | P                       | V               |
|                                                      |      | 5719.925             | 72.57               | -38.21           | 110.78                      | 59.61                     | 33.82                         | 13.55                  | 34.41                      | 100                  | 326                     | P                       | V               |
|                                                      |      | 5724.875             | 83.11               | -38.81           | 121.92                      | 70.11                     | 33.85                         | 13.56                  | 34.41                      | 100                  | 326                     | P                       | V               |
|                                                      | *    | 5745                 | 115.11              | -                | -                           | 101.98                    | 33.97                         | 13.59                  | 34.43                      | 100                  | 326                     | P                       | V               |
|                                                      | *    | 5745                 | 106.37              | -                | -                           | 93.24                     | 33.97                         | 13.59                  | 34.43                      | 100                  | 326                     | A                       | V               |
|                                                      |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                      |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                                                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11ax</b><br><b>HE20 Full</b><br><b>CH 157</b><br><b>5785MHz</b> |      | 5630.5               | 52.31               | -15.89           | 68.2                        | 39.85                     | 33.38                         | 13.42                  | 34.34                      | 155                  | 355                     | P                       | H               |
|                                                                        |      | 5692.5               | 53.34               | -46.33           | 99.67                       | 40.55                     | 33.67                         | 13.51                  | 34.39                      | 155                  | 355                     | P                       | H               |
|                                                                        |      | 5711.75              | 55.11               | -53.38           | 108.49                      | 42.2                      | 33.77                         | 13.54                  | 34.4                       | 155                  | 355                     | P                       | H               |
|                                                                        |      | 5720.75              | 54.03               | -58.48           | 112.51                      | 41.07                     | 33.82                         | 13.55                  | 34.41                      | 155                  | 355                     | P                       | H               |
|                                                                        | *    | 5785                 | 120.73              | -                | -                           | 107.54                    | 34                            | 13.65                  | 34.46                      | 155                  | 355                     | P                       | H               |
|                                                                        | *    | 5785                 | 112.11              | -                | -                           | 98.92                     | 34                            | 13.65                  | 34.46                      | 155                  | 355                     | A                       | H               |
|                                                                        |      | 5850.75              | 54.54               | -65.95           | 120.49                      | 41.44                     | 33.9                          | 13.71                  | 34.51                      | 155                  | 355                     | P                       | H               |
|                                                                        |      | 5866.5               | 53.37               | -54.21           | 107.58                      | 40.24                     | 33.93                         | 13.72                  | 34.52                      | 155                  | 355                     | P                       | H               |
|                                                                        |      | 5886.25              | 52.94               | -43.91           | 96.85                       | 39.77                     | 33.97                         | 13.73                  | 34.53                      | 155                  | 355                     | P                       | H               |
|                                                                        |      | 5941.25              | 53.42               | -14.78           | 68.2                        | 40.23                     | 34                            | 13.77                  | 34.58                      | 155                  | 355                     | P                       | H               |
|                                                                        |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                                        |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                                        |      | 5639.5               | 51.32               | -16.88           | 68.2                        | 38.8                      | 33.44                         | 13.43                  | 34.35                      | 100                  | 11                      | P                       | V               |
|                                                                        |      | 5689.25              | 51.8                | -45.47           | 97.27                       | 39.02                     | 33.66                         | 13.5                   | 34.38                      | 100                  | 11                      | P                       | V               |
|                                                                        |      | 5702.75              | 52.09               | -53.88           | 105.97                      | 39.24                     | 33.72                         | 13.52                  | 34.39                      | 100                  | 11                      | P                       | V               |
|                                                                        |      | 5724                 | 51.49               | -68.43           | 119.92                      | 38.5                      | 33.84                         | 13.56                  | 34.41                      | 100                  | 11                      | P                       | V               |
|                                                                        | *    | 5785                 | 115.75              | -                | -                           | 102.56                    | 34                            | 13.65                  | 34.46                      | 100                  | 11                      | P                       | V               |
|                                                                        | *    | 5785                 | 107.46              | -                | -                           | 94.27                     | 34                            | 13.65                  | 34.46                      | 100                  | 11                      | A                       | V               |
|                                                                        |      | 5851.25              | 52.75               | -66.6            | 119.35                      | 39.65                     | 33.9                          | 13.71                  | 34.51                      | 100                  | 11                      | P                       | V               |
|                                                                        |      | 5865.5               | 51.96               | -55.9            | 107.86                      | 38.83                     | 33.93                         | 13.72                  | 34.52                      | 100                  | 11                      | P                       | V               |
|                                                                        |      | 5906                 | 52.8                | -29.42           | 82.22                       | 39.61                     | 34                            | 13.74                  | 34.55                      | 100                  | 11                      | P                       | V               |
|                                                                        |      | 5943.25              | 52.12               | -16.08           | 68.2                        | 38.93                     | 34                            | 13.77                  | 34.58                      | 100                  | 11                      | P                       | V               |
|                                                                        |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                                        |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                        | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|--------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE20 Full<br>CH 165<br>5825MHz | *                                                                                           | 5825                 | 120.33              | -                | -                           | 107.18                    | 33.95                         | 13.69                  | 34.49                      | 246                  | 0                       | P                       | H               |
|                                            | *                                                                                           | 5825                 | 112.14              | -                | -                           | 98.99                     | 33.95                         | 13.69                  | 34.49                      | 246                  | 0                       | A                       | H               |
|                                            |                                                                                             | 5850.6               | 82.69               | -38.14           | 120.83                      | 69.59                     | 33.9                          | 13.71                  | 34.51                      | 246                  | 0                       | P                       | H               |
|                                            |                                                                                             | 5861.6               | 70.38               | -38.57           | 108.95                      | 57.26                     | 33.92                         | 13.71                  | 34.51                      | 246                  | 0                       | P                       | H               |
|                                            |                                                                                             | 5895.6               | 54.8                | -35.12           | 89.92                       | 41.61                     | 33.99                         | 13.74                  | 34.54                      | 246                  | 0                       | P                       | H               |
|                                            |                                                                                             | 5937                 | 53.59               | -14.61           | 68.2                        | 40.39                     | 34                            | 13.77                  | 34.57                      | 246                  | 0                       | P                       | H               |
|                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            | *                                                                                           | 5825                 | 115.7               | -                | -                           | 102.55                    | 33.95                         | 13.69                  | 34.49                      | 400                  | 40                      | P                       | V               |
|                                            | *                                                                                           | 5825                 | 107.39              | -                | -                           | 94.24                     | 33.95                         | 13.69                  | 34.49                      | 400                  | 40                      | A                       | V               |
|                                            |                                                                                             | 5850.2               | 71.24               | -50.5            | 121.74                      | 58.14                     | 33.9                          | 13.71                  | 34.51                      | 400                  | 40                      | P                       | V               |
|                                            |                                                                                             | 5858.4               | 65.99               | -43.86           | 109.85                      | 52.87                     | 33.92                         | 13.71                  | 34.51                      | 400                  | 40                      | P                       | V               |
|                                            |                                                                                             | 5877.2               | 52.39               | -51.18           | 103.57                      | 39.25                     | 33.95                         | 13.72                  | 34.53                      | 400                  | 40                      | P                       | V               |
|                                            |                                                                                             | 5938.6               | 51.47               | -16.73           | 68.2                        | 38.27                     | 34                            | 13.77                  | 34.57                      | 400                  | 40                      | 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 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                        | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|--------------------------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE20 Full<br>CH 149<br>5745MHz |      | 1264                 | 52.35               | -15.85           | 68.2                        | 53.66                     | 24.3                          | 6.18                   | 31.79                      | 249                  | 0                       | P                       | H               |
|                                            |      | 1336                 | 55.07               | -18.93           | 74                          | 56.1                      | 24.44                         | 6.33                   | 31.8                       | 180                  | 53                      | P                       | H               |
|                                            |      | 1336                 | 45.12               | -8.88            | 54                          | 46.15                     | 24.44                         | 6.33                   | 31.8                       | 180                  | 53                      | A                       | H               |
|                                            |      | 1858                 | 51.49               | -16.71           | 68.2                        | 50.77                     | 25.28                         | 7.48                   | 32.04                      | 249                  | 0                       | P                       | H               |
|                                            |      | 11490                | 50.74               | -23.26           | 74                          | 31.61                     | 38.98                         | 20.12                  | 39.97                      | -                    | -                       | P                       | H               |
|                                            |      | 11490                | 40.74               | -13.26           | 54                          | 21.61                     | 38.98                         | 20.12                  | 39.97                      | -                    | -                       | A                       | H               |
|                                            |      | 17235                | 51.07               | -17.13           | 68.2                        | 32.05                     | 40.57                         | 24.72                  | 46.27                      | -                    | -                       | P                       | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      | 1264                 | 45.72               | -22.48           | 68.2                        | 47.03                     | 24.3                          | 6.18                   | 31.79                      | 100                  | 326                     | P                       | V               |
|                                            |      | 1336                 | 54.2                | -19.8            | 74                          | 55.23                     | 24.44                         | 6.33                   | 31.8                       | 196                  | 183                     | P                       | V               |
|                                            |      | 1336                 | 46.66               | -7.34            | 54                          | 47.69                     | 24.44                         | 6.33                   | 31.8                       | 196                  | 183                     | A                       | V               |
|                                            |      | 1786                 | 42.84               | -25.36           | 68.2                        | 42.76                     | 24.76                         | 7.32                   | 32                         | 100                  | 326                     | P                       | V               |
|                                            |      | 11490                | 50.11               | -23.89           | 74                          | 30.98                     | 38.98                         | 20.12                  | 39.97                      | -                    | -                       | P                       | V               |
|                                            |      | 11490                | 40.83               | -13.17           | 54                          | 21.7                      | 38.98                         | 20.12                  | 39.97                      | -                    | -                       | A                       | V               |
|                                            |      | 17235                | 50.32               | -17.88           | 68.2                        | 31.3                      | 40.57                         | 24.72                  | 46.27                      | -                    | -                       | P                       | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                        | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|--------------------------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE20 Full<br>CH 157<br>5785MHz |      | 1264                 | 52.2                | -16              | 68.2                        | 53.51                     | 24.3                          | 6.18                   | 31.79                      | 155                  | 355                     | P                       | H               |
|                                            |      | 1336                 | 55.36               | -18.64           | 74                          | 56.39                     | 24.44                         | 6.33                   | 31.8                       | 179                  | 50                      | P                       | H               |
|                                            |      | 1336                 | 44.75               | -9.25            | 54                          | 45.78                     | 24.44                         | 6.33                   | 31.8                       | 179                  | 50                      | A                       | H               |
|                                            |      | 1780                 | 50.87               | -17.33           | 68.2                        | 50.85                     | 24.7                          | 7.31                   | 31.99                      | 155                  | 355                     | P                       | H               |
|                                            |      | 11570                | 50.39               | -23.61           | 74                          | 31.19                     | 39.06                         | 20.19                  | 40.05                      | -                    | -                       | P                       | H               |
|                                            |      | 11570                | 40.97               | -13.03           | 54                          | 21.77                     | 39.06                         | 20.19                  | 40.05                      | -                    | -                       | A                       | H               |
|                                            |      | 17355                | 50.53               | -17.67           | 68.2                        | 31.61                     | 40.5                          | 24.82                  | 46.4                       | -                    | -                       | P                       | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      | 1264                 | 52.65               | -15.55           | 68.2                        | 53.96                     | 24.3                          | 6.18                   | 31.79                      | 100                  | 11                      | P                       | V               |
|                                            |      | 1336                 | 53.92               | -20.08           | 74                          | 54.95                     | 24.44                         | 6.33                   | 31.8                       | 194                  | 181                     | P                       | V               |
|                                            |      | 1336                 | 47.62               | -6.38            | 54                          | 48.65                     | 24.44                         | 6.33                   | 31.8                       | 194                  | 181                     | A                       | V               |
|                                            |      | 1858                 | 49.73               | -18.47           | 68.2                        | 49.01                     | 25.28                         | 7.48                   | 32.04                      | 100                  | 11                      | P                       | V               |
|                                            |      | 11570                | 50.78               | -23.22           | 74                          | 31.58                     | 39.06                         | 20.19                  | 40.05                      | -                    | -                       | P                       | V               |
|                                            |      | 11570                | 40.88               | -13.12           | 54                          | 21.68                     | 39.06                         | 20.19                  | 40.05                      | -                    | -                       | A                       | V               |
|                                            |      | 17355                | 50.11               | -18.09           | 68.2                        | 31.19                     | 40.5                          | 24.82                  | 46.4                       | -                    | -                       | P                       | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |

| WIFI<br>Ant.<br>1+2                        | Note | Frequency<br><br>( MHz ) | Level<br><br>( dBμV/m ) | Margin<br><br>( dB ) | Limit<br>Line<br><br>( dBμV/m ) | Read<br>Level<br><br>( dBμV ) | Antenna<br>Factor<br><br>( dB/m ) | Path<br>Loss<br><br>( dB ) | Preamp<br>Factor<br><br>( dB ) | Ant<br>Pos<br><br>( cm ) | Table<br>Pos<br><br>( deg ) | Peak<br>Avg.<br><br>(P/A) | Pol.<br><br>(H/V) |
|--------------------------------------------|------|--------------------------|-------------------------|----------------------|---------------------------------|-------------------------------|-----------------------------------|----------------------------|--------------------------------|--------------------------|-----------------------------|---------------------------|-------------------|
| 802.11ax<br>HE20 Full<br>CH 165<br>5825MHz |      | 1264                     | 53                      | -15.2                | 68.2                            | 54.31                         | 24.3                              | 6.18                       | 31.79                          | 246                      | 0                           | P                         | H                 |
|                                            |      | 1336                     | 54.54                   | -19.46               | 74                              | 55.57                         | 24.44                             | 6.33                       | 31.8                           | 177                      | 57                          | P                         | H                 |
|                                            |      | 1336                     | 43.62                   | -10.38               | 54                              | 44.65                         | 24.44                             | 6.33                       | 31.8                           | 177                      | 57                          | A                         | H                 |
|                                            |      | 1858                     | 50.81                   | -17.39               | 68.2                            | 50.09                         | 25.28                             | 7.48                       | 32.04                          | 246                      | 0                           | P                         | H                 |
|                                            |      | 11650                    | 50.5                    | -23.5                | 74                              | 31.37                         | 39                                | 20.27                      | 40.14                          | -                        | -                           | P                         | H                 |
|                                            |      | 11650                    | 40.95                   | -13.05               | 54                              | 21.82                         | 39                                | 20.27                      | 40.14                          | -                        | -                           | A                         | H                 |
|                                            |      | 17475                    | 50.71                   | -17.49               | 68.2                            | 31.72                         | 40.6                              | 24.91                      | 46.52                          | -                        | -                           | P                         | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           | H                 |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             | H                         |                   |
|                                            |      |                          |                         |                      |                                 |                               |                                   |                            |                                |                          |                             |                           |                   |



## Band 4 5725~5850MHz

## WIFI 802.11ax HE20\_Partial 106 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                                        | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|------------------------------------------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE20<br>Partial<br>106/53<br>CH 149<br>5745MHz |      | 5646.35              | 61.26               | -6.94            | 68.2                        | 48.69                     | 33.48                         | 13.44                  | 34.35                      | 205                  | 360                     | P                       | H               |
|                                                            |      | 5685.95              | 80.29               | -14.55           | 94.84                       | 67.53                     | 33.64                         | 13.5                   | 34.38                      | 205                  | 360                     | P                       | H               |
|                                                            |      | 5714.975             | 91.17               | -18.22           | 109.39                      | 78.24                     | 33.79                         | 13.54                  | 34.4                       | 205                  | 360                     | P                       | H               |
|                                                            |      | 5722.85              | 86.5                | -30.8            | 117.3                       | 73.52                     | 33.84                         | 13.55                  | 34.41                      | 205                  | 360                     | P                       | H               |
|                                                            | *    | 5745                 | 118.29              | -                | -                           | 105.16                    | 33.97                         | 13.59                  | 34.43                      | 205                  | 360                     | P                       | H               |
|                                                            | *    | 5745                 | 112.39              | -                | -                           | 99.26                     | 33.97                         | 13.59                  | 34.43                      | 205                  | 360                     | A                       | H               |
|                                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                            |      | 5649.05              | 58.24               | -9.96            | 68.2                        | 45.66                     | 33.49                         | 13.44                  | 34.35                      | 400                  | 95                      | P                       | V               |
|                                                            |      | 5688.65              | 75.98               | -20.85           | 96.83                       | 63.21                     | 33.65                         | 13.5                   | 34.38                      | 400                  | 95                      | P                       | V               |
|                                                            |      | 5719.475             | 87.3                | -23.35           | 110.65                      | 74.34                     | 33.82                         | 13.55                  | 34.41                      | 400                  | 95                      | P                       | V               |
|                                                            |      | 5720.825             | 83.83               | -28.85           | 112.68                      | 70.87                     | 33.82                         | 13.55                  | 34.41                      | 400                  | 95                      | P                       | V               |
|                                                            | *    | 5745                 | 116.76              | -                | -                           | 103.63                    | 33.97                         | 13.59                  | 34.43                      | 400                  | 95                      | P                       | V               |
|                                                            | *    | 5745                 | 110.33              | -                | -                           | 97.2                      | 33.97                         | 13.59                  | 34.43                      | 400                  | 95                      | A                       | V               |
|                                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                                        | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE20<br>Partial<br>106/54<br>CH 165<br>5825MHz | *                                                                                           | 5825                 | 121.25              | -                | -                           | 108.1                     | 33.95                         | 13.69                  | 34.49                      | 191                  | 351                     | P                       | H               |
|                                                            | *                                                                                           | 5825                 | 114.6               | -                | -                           | 101.45                    | 33.95                         | 13.69                  | 34.49                      | 191                  | 351                     | A                       | H               |
|                                                            |                                                                                             | 5854                 | 69.28               | -43.8            | 113.08                      | 56.17                     | 33.91                         | 13.71                  | 34.51                      | 191                  | 351                     | P                       | H               |
|                                                            |                                                                                             | 5858.4               | 69.93               | -39.92           | 109.85                      | 56.81                     | 33.92                         | 13.71                  | 34.51                      | 191                  | 351                     | P                       | H               |
|                                                            |                                                                                             | 5908.2               | 55.17               | -25.43           | 80.6                        | 41.97                     | 34                            | 13.75                  | 34.55                      | 191                  | 351                     | P                       | H               |
|                                                            |                                                                                             | 5938                 | 51.97               | -16.23           | 68.2                        | 38.77                     | 34                            | 13.77                  | 34.57                      | 191                  | 351                     | P                       | H               |
|                                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                            | *                                                                                           | 5825                 | 119.17              | -                | -                           | 106.02                    | 33.95                         | 13.69                  | 34.49                      | 400                  | 92                      | P                       | V               |
|                                                            | *                                                                                           | 5825                 | 110.98              | -                | -                           | 97.83                     | 33.95                         | 13.69                  | 34.49                      | 400                  | 92                      | A                       | V               |
|                                                            |                                                                                             | 5850                 | 65.33               | -56.87           | 122.2                       | 52.24                     | 33.9                          | 13.7                   | 34.51                      | 400                  | 92                      | P                       | V               |
|                                                            |                                                                                             | 5866.8               | 54.02               | -53.47           | 107.49                      | 40.89                     | 33.93                         | 13.72                  | 34.52                      | 400                  | 92                      | P                       | V               |
|                                                            |                                                                                             | 5884.8               | 53.5                | -44.42           | 97.92                       | 40.33                     | 33.97                         | 13.73                  | 34.53                      | 400                  | 92                      | P                       | V               |
|                                                            |                                                                                             | 5937.2               | 53.58               | -14.62           | 68.2                        | 40.38                     | 34                            | 13.77                  | 34.57                      | 400                  | 92                      | 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 802.11ax HE40\_Full (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                        | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|--------------------------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE40 Full<br>CH 151<br>5755MHz |      | 5649.75              | 56.26               | -11.94           | 68.2                        | 43.67                     | 33.5                          | 13.44                  | 34.35                      | 239                  | 356                     | P                       | H               |
|                                            |      | 5699.75              | 76.11               | -28.91           | 105.02                      | 63.28                     | 33.7                          | 13.52                  | 34.39                      | 239                  | 356                     | P                       | H               |
|                                            |      | 5719                 | 87.6                | -22.92           | 110.52                      | 74.65                     | 33.81                         | 13.55                  | 34.41                      | 239                  | 356                     | P                       | H               |
|                                            |      | 5720.5               | 89.37               | -22.57           | 111.94                      | 76.41                     | 33.82                         | 13.55                  | 34.41                      | 239                  | 356                     | P                       | H               |
|                                            | *    | 5755                 | 119.35              | -                | -                           | 106.18                    | 34                            | 13.6                   | 34.43                      | 239                  | 356                     | P                       | H               |
|                                            | *    | 5755                 | 110.83              | -                | -                           | 97.66                     | 34                            | 13.6                   | 34.43                      | 239                  | 356                     | A                       | H               |
|                                            |      | 5850                 | 57.17               | -65.03           | 122.2                       | 44.08                     | 33.9                          | 13.7                   | 34.51                      | 239                  | 356                     | P                       | H               |
|                                            |      | 5860.5               | 54.42               | -54.84           | 109.26                      | 41.3                      | 33.92                         | 13.71                  | 34.51                      | 239                  | 356                     | P                       | H               |
|                                            |      | 5875.75              | 53.69               | -50.95           | 104.64                      | 40.55                     | 33.95                         | 13.72                  | 34.53                      | 239                  | 356                     | P                       | H               |
|                                            |      | 5942.25              | 51.77               | -16.43           | 68.2                        | 38.58                     | 34                            | 13.77                  | 34.58                      | 239                  | 356                     | P                       | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      | 5643.25              | 53.02               | -15.18           | 68.2                        | 40.48                     | 33.46                         | 13.43                  | 34.35                      | 400                  | 22                      | P                       | V               |
|                                            |      | 5696.5               | 67.85               | -34.77           | 102.62                      | 55.04                     | 33.69                         | 13.51                  | 34.39                      | 400                  | 22                      | P                       | V               |
|                                            |      | 5716                 | 83.03               | -26.65           | 109.68                      | 70.09                     | 33.8                          | 13.54                  | 34.4                       | 400                  | 22                      | P                       | V               |
|                                            |      | 5724.5               | 83.99               | -37.07           | 121.06                      | 70.99                     | 33.85                         | 13.56                  | 34.41                      | 400                  | 22                      | P                       | V               |
|                                            | *    | 5755                 | 115.95              | -                | -                           | 102.78                    | 34                            | 13.6                   | 34.43                      | 400                  | 22                      | P                       | V               |
|                                            | *    | 5755                 | 107.11              | -                | -                           | 93.94                     | 34                            | 13.6                   | 34.43                      | 400                  | 22                      | A                       | V               |
|                                            |      | 5851.75              | 53.23               | -64.98           | 118.21                      | 40.13                     | 33.9                          | 13.71                  | 34.51                      | 400                  | 22                      | P                       | V               |
|                                            |      | 5859.5               | 52.41               | -57.13           | 109.54                      | 39.29                     | 33.92                         | 13.71                  | 34.51                      | 400                  | 22                      | P                       | V               |
|                                            |      | 5875.5               | 52.61               | -52.22           | 104.83                      | 39.47                     | 33.95                         | 13.72                  | 34.53                      | 400                  | 22                      | P                       | V               |
|                                            |      | 5942.75              | 50.87               | -17.33           | 68.2                        | 37.68                     | 34                            | 13.77                  | 34.58                      | 400                  | 22                      | P                       | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                        | Note                                                         | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|--------------------------------------------|--------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE40 Full<br>CH 159<br>5795MHz |                                                              | 5640.75              | 52.2                | -16              | 68.2                        | 39.68                     | 33.44                         | 13.43                  | 34.35                      | 166                  | 360                     | P                       | H               |
|                                            |                                                              | 5699.5               | 55.93               | -48.9            | 104.83                      | 43.1                      | 33.7                          | 13.52                  | 34.39                      | 166                  | 360                     | P                       | H               |
|                                            |                                                              | 5720                 | 65.34               | -45.46           | 110.8                       | 52.38                     | 33.82                         | 13.55                  | 34.41                      | 166                  | 360                     | P                       | H               |
|                                            |                                                              | 5722.25              | 66.69               | -49.24           | 115.93                      | 53.72                     | 33.83                         | 13.55                  | 34.41                      | 166                  | 360                     | P                       | H               |
|                                            | *                                                            | 5795                 | 119.74              | -                | -                           | 106.54                    | 34                            | 13.66                  | 34.46                      | 166                  | 360                     | P                       | H               |
|                                            | *                                                            | 5795                 | 111.28              | -                | -                           | 98.08                     | 34                            | 13.66                  | 34.46                      | 166                  | 360                     | A                       | H               |
|                                            |                                                              | 5852.5               | 72.57               | -43.93           | 116.5                       | 59.46                     | 33.91                         | 13.71                  | 34.51                      | 166                  | 360                     | P                       | H               |
|                                            |                                                              | 5859.75              | 68.85               | -40.62           | 109.47                      | 55.73                     | 33.92                         | 13.71                  | 34.51                      | 166                  | 360                     | P                       | H               |
|                                            |                                                              | 5879                 | 61.79               | -40.44           | 102.23                      | 48.63                     | 33.96                         | 13.73                  | 34.53                      | 166                  | 360                     | P                       | H               |
|                                            |                                                              | 5942.25              | 54.23               | -13.97           | 68.2                        | 41.04                     | 34                            | 13.77                  | 34.58                      | 166                  | 360                     | P                       | H               |
|                                            |                                                              |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |                                                              |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |                                                              | 5647.25              | 50.76               | -17.44           | 68.2                        | 38.19                     | 33.48                         | 13.44                  | 34.35                      | 395                  | 20                      | P                       | V               |
|                                            |                                                              | 5685                 | 52.1                | -42.03           | 94.13                       | 39.34                     | 33.64                         | 13.5                   | 34.38                      | 395                  | 20                      | P                       | V               |
|                                            |                                                              | 5717.5               | 59.56               | -50.54           | 110.1                       | 46.61                     | 33.81                         | 13.55                  | 34.41                      | 395                  | 20                      | P                       | V               |
|                                            |                                                              | 5724.75              | 62.78               | -58.85           | 121.63                      | 49.78                     | 33.85                         | 13.56                  | 34.41                      | 395                  | 20                      | P                       | V               |
|                                            | *                                                            | 5795                 | 114.22              | -                | -                           | 101.02                    | 34                            | 13.66                  | 34.46                      | 395                  | 20                      | P                       | V               |
|                                            | *                                                            | 5795                 | 106.42              | -                | -                           | 93.22                     | 34                            | 13.66                  | 34.46                      | 395                  | 20                      | A                       | V               |
|                                            |                                                              | 5854.75              | 63.75               | -47.62           | 111.37                      | 50.64                     | 33.91                         | 13.71                  | 34.51                      | 395                  | 20                      | P                       | V               |
|                                            |                                                              | 5855.5               | 64.93               | -45.73           | 110.66                      | 51.82                     | 33.91                         | 13.71                  | 34.51                      | 395                  | 20                      | P                       | V               |
|                                            |                                                              | 5876.75              | 58.35               | -45.55           | 103.9                       | 45.21                     | 33.95                         | 13.72                  | 34.53                      | 395                  | 20                      | P                       | V               |
|                                            |                                                              | 5934                 | 51.41               | -16.79           | 68.2                        | 38.22                     | 34                            | 13.76                  | 34.57                      | 395                  | 20                      | 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 802.11ax HE40\_Full (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                        | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|--------------------------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE40 Full<br>CH 151<br>5755MHz |      | 1264                 | 52.52               | -15.68           | 68.2                        | 53.83                     | 24.3                          | 6.18                   | 31.79                      | 239                  | 356                     | P                       | H               |
|                                            |      | 1336                 | 55.56               | -18.44           | 74                          | 56.59                     | 24.44                         | 6.33                   | 31.8                       | 176                  | 59                      | P                       | H               |
|                                            |      | 1336                 | 44.48               | -9.52            | 54                          | 45.51                     | 24.44                         | 6.33                   | 31.8                       | 176                  | 59                      | A                       | H               |
|                                            |      | 1858                 | 50.29               | -17.91           | 68.2                        | 49.57                     | 25.28                         | 7.48                   | 32.04                      | 239                  | 356                     | P                       | H               |
|                                            |      | 11510                | 50.36               | -23.64           | 74                          | 31.2                      | 39.02                         | 20.13                  | 39.99                      | -                    | -                       | P                       | H               |
|                                            |      | 11510                | 40.8                | -13.2            | 54                          | 21.64                     | 39.02                         | 20.13                  | 39.99                      | -                    | -                       | A                       | H               |
|                                            |      | 17265                | 51.18               | -17.02           | 68.2                        | 32.14                     | 40.6                          | 24.74                  | 46.3                       | -                    | -                       | P                       | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |      | 1264                 | 50.8                | -17.4            | 68.2                        | 52.11                     | 24.3                          | 6.18                   | 31.79                      | 400                  | 22                      | P                       | V               |
|                                            |      | 1336                 | 54.38               | -19.62           | 74                          | 55.41                     | 24.44                         | 6.33                   | 31.8                       | 195                  | 181                     | P                       | V               |
|                                            |      | 1336                 | 46.72               | -7.28            | 54                          | 47.75                     | 24.44                         | 6.33                   | 31.8                       | 195                  | 181                     | A                       | V               |
|                                            |      | 1858                 | 50.72               | -17.48           | 68.2                        | 50                        | 25.28                         | 7.48                   | 32.04                      | 400                  | 22                      | P                       | V               |
|                                            |      | 11510                | 50.05               | -23.95           | 74                          | 30.89                     | 39.02                         | 20.13                  | 39.99                      | -                    | -                       | P                       | V               |
|                                            |      | 11510                | 40.9                | -13.1            | 54                          | 21.74                     | 39.02                         | 20.13                  | 39.99                      | -                    | -                       | A                       | V               |
|                                            |      | 17265                | 49.92               | -18.28           | 68.2                        | 30.88                     | 40.6                          | 24.74                  | 46.3                       | -                    | -                       | P                       | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |

[illegible]



## Band 4 5725~5850MHz

## WIFI 802.11ax HE40\_Partial 242 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                                        | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|------------------------------------------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE40<br>Partial<br>242/61<br>CH 151<br>5755MHz |      | 5642.75              | 63.58               | -4.62            | 68.2                        | 51.04                     | 33.46                         | 13.43                  | 34.35                      | 254                  | 0                       | P                       | H               |
|                                                            |      | 5696.75              | 77.7                | -25.1            | 102.8                       | 64.88                     | 33.69                         | 13.52                  | 34.39                      | 254                  | 0                       | P                       | H               |
|                                                            |      | 5717                 | 94.62               | -15.34           | 109.96                      | 81.67                     | 33.8                          | 13.55                  | 34.4                       | 254                  | 0                       | P                       | H               |
|                                                            |      | 5721.5               | 91.69               | -22.53           | 114.22                      | 78.72                     | 33.83                         | 13.55                  | 34.41                      | 254                  | 0                       | P                       | H               |
|                                                            | *    | 5755                 | 120.97              | -                | -                           | 107.8                     | 34                            | 13.6                   | 34.43                      | 254                  | 0                       | P                       | H               |
|                                                            | *    | 5755                 | 112.86              | -                | -                           | 99.69                     | 34                            | 13.6                   | 34.43                      | 254                  | 0                       | A                       | H               |
|                                                            |      | 5852.5               | 65.86               | -50.64           | 116.5                       | 52.75                     | 33.91                         | 13.71                  | 34.51                      | 254                  | 0                       | P                       | H               |
|                                                            |      | 5865.75              | 58.48               | -49.31           | 107.79                      | 45.35                     | 33.93                         | 13.72                  | 34.52                      | 254                  | 0                       | P                       | H               |
|                                                            |      | 5878.25              | 59.72               | -43.07           | 102.79                      | 46.57                     | 33.96                         | 13.72                  | 34.53                      | 254                  | 0                       | P                       | H               |
|                                                            |      | 5939                 | 53.13               | -15.07           | 68.2                        | 39.93                     | 34                            | 13.77                  | 34.57                      | 254                  | 0                       | P                       | H               |
|                                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                            |      | 5641.5               | 60.27               | -7.93            | 68.2                        | 47.74                     | 33.45                         | 13.43                  | 34.35                      | 149                  | 330                     | P                       | V               |
|                                                            |      | 5693.25              | 74.42               | -25.8            | 100.22                      | 61.63                     | 33.67                         | 13.51                  | 34.39                      | 149                  | 330                     | P                       | V               |
|                                                            |      | 5717.25              | 88.83               | -21.2            | 110.03                      | 75.89                     | 33.8                          | 13.55                  | 34.41                      | 149                  | 330                     | P                       | V               |
|                                                            |      | 5721                 | 88.46               | -24.62           | 113.08                      | 75.49                     | 33.83                         | 13.55                  | 34.41                      | 149                  | 330                     | P                       | V               |
|                                                            | *    | 5755                 | 118.01              | -                | -                           | 104.84                    | 34                            | 13.6                   | 34.43                      | 149                  | 330                     | P                       | V               |
|                                                            | *    | 5755                 | 108.69              | -                | -                           | 95.52                     | 34                            | 13.6                   | 34.43                      | 149                  | 330                     | A                       | V               |
|                                                            |      | 5852.5               | 61.93               | -54.57           | 116.5                       | 48.82                     | 33.91                         | 13.71                  | 34.51                      | 149                  | 330                     | P                       | V               |
|                                                            |      | 5862.25              | 55.66               | -53.11           | 108.77                      | 42.55                     | 33.92                         | 13.71                  | 34.52                      | 149                  | 330                     | P                       | V               |
|                                                            |      | 5878                 | 55.79               | -47.18           | 102.97                      | 42.64                     | 33.96                         | 13.72                  | 34.53                      | 149                  | 330                     | P                       | V               |
|                                                            |      | 5944                 | 52.24               | -15.96           | 68.2                        | 39.05                     | 34                            | 13.77                  | 34.58                      | 149                  | 330                     | P                       | V               |
|                                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                            |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                                                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11ax<br/>HE40<br/>Partial<br/>242/62<br/>CH 159<br/>5795MHz</b> |                                                                                             | 5627.25              | 55.87               | -12.33           | 68.2                        | 43.44                     | 33.36                         | 13.41                  | 34.34                      | 257                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5697.5               | 69.51               | -33.85           | 103.36                      | 56.69                     | 33.69                         | 13.52                  | 34.39                      | 257                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5718.25              | 69.48               | -40.83           | 110.31                      | 56.53                     | 33.81                         | 13.55                  | 34.41                      | 257                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5723.25              | 71.54               | -46.67           | 118.21                      | 58.56                     | 33.84                         | 13.55                  | 34.41                      | 257                  | 0                       | P                       | H               |
|                                                                        | *                                                                                           | 5795                 | 119.88              | -                | -                           | 106.68                    | 34                            | 13.66                  | 34.46                      | 257                  | 0                       | P                       | H               |
|                                                                        | *                                                                                           | 5795                 | 112.7               | -                | -                           | 99.5                      | 34                            | 13.66                  | 34.46                      | 257                  | 0                       | A                       | H               |
|                                                                        |                                                                                             | 5852.25              | 74.21               | -42.86           | 117.07                      | 61.11                     | 33.9                          | 13.71                  | 34.51                      | 257                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5863.75              | 71.07               | -37.28           | 108.35                      | 57.95                     | 33.93                         | 13.71                  | 34.52                      | 257                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5887.75              | 64.91               | -30.83           | 95.74                       | 51.73                     | 33.98                         | 13.73                  | 34.53                      | 257                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5927.75              | 59.17               | -9.03            | 68.2                        | 45.98                     | 34                            | 13.76                  | 34.57                      | 257                  | 0                       | P                       | H               |
|                                                                        |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                                        |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                                        |                                                                                             | 5631.5               | 51.8                | -16.4            | 68.2                        | 39.33                     | 33.39                         | 13.42                  | 34.34                      | 400                  | 90                      | P                       | V               |
|                                                                        |                                                                                             | 5696.5               | 60.65               | -41.97           | 102.62                      | 47.84                     | 33.69                         | 13.51                  | 34.39                      | 400                  | 90                      | P                       | V               |
|                                                                        |                                                                                             | 5715.75              | 65.88               | -43.73           | 109.61                      | 52.95                     | 33.79                         | 13.54                  | 34.4                       | 400                  | 90                      | P                       | V               |
|                                                                        |                                                                                             | 5724.25              | 56.42               | -64.07           | 120.49                      | 43.42                     | 33.85                         | 13.56                  | 34.41                      | 400                  | 90                      | P                       | V               |
|                                                                        | *                                                                                           | 5795                 | 118.43              | -                | -                           | 105.23                    | 34                            | 13.66                  | 34.46                      | 400                  | 90                      | P                       | V               |
|                                                                        | *                                                                                           | 5795                 | 109.64              | -                | -                           | 96.44                     | 34                            | 13.66                  | 34.46                      | 400                  | 90                      | A                       | V               |
|                                                                        |                                                                                             | 5852                 | 72.58               | -45.06           | 117.64                      | 59.48                     | 33.9                          | 13.71                  | 34.51                      | 400                  | 90                      | P                       | V               |
|                                                                        |                                                                                             | 5861                 | 69.49               | -39.63           | 109.12                      | 56.37                     | 33.92                         | 13.71                  | 34.51                      | 400                  | 90                      | P                       | V               |
|                                                                        |                                                                                             | 5877.5               | 66.34               | -37              | 103.34                      | 53.19                     | 33.96                         | 13.72                  | 34.53                      | 400                  | 90                      | P                       | V               |
|                                                                        |                                                                                             | 5947                 | 52.59               | -15.61           | 68.2                        | 39.4                      | 34                            | 13.77                  | 34.58                      | 400                  | 90                      | P                       | V               |
|                                                                        |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                                        |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                                                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11ax HE80\_Full (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                        | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|--------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE80 Full<br>CH 155<br>5775MHz |                                                                                             | 5649.25              | 66.96               | -1.24            | 68.2                        | 54.37                     | 33.5                          | 13.44                  | 34.35                      | 247                  | 358                     | P                       | H               |
|                                            |                                                                                             | 5698.5               | 72.27               | -31.82           | 104.09                      | 59.45                     | 33.69                         | 13.52                  | 34.39                      | 247                  | 358                     | P                       | H               |
|                                            |                                                                                             | 5717.75              | 76.73               | -33.44           | 110.17                      | 63.78                     | 33.81                         | 13.55                  | 34.41                      | 247                  | 358                     | P                       | H               |
|                                            |                                                                                             | 5721.25              | 76.34               | -37.31           | 113.65                      | 63.37                     | 33.83                         | 13.55                  | 34.41                      | 247                  | 358                     | P                       | H               |
|                                            | *                                                                                           | 5775                 | 113.51              | -                | -                           | 100.33                    | 34                            | 13.63                  | 34.45                      | 247                  | 358                     | P                       | H               |
|                                            | *                                                                                           | 5775                 | 104.46              | -                | -                           | 91.28                     | 34                            | 13.63                  | 34.45                      | 247                  | 358                     | A                       | H               |
|                                            |                                                                                             | 5850                 | 69.31               | -52.89           | 122.2                       | 56.22                     | 33.9                          | 13.7                   | 34.51                      | 247                  | 358                     | P                       | H               |
|                                            |                                                                                             | 5869.5               | 67                  | -39.74           | 106.74                      | 53.86                     | 33.94                         | 13.72                  | 34.52                      | 247                  | 358                     | P                       | H               |
|                                            |                                                                                             | 5880.25              | 64.74               | -36.56           | 101.3                       | 51.58                     | 33.96                         | 13.73                  | 34.53                      | 247                  | 358                     | P                       | H               |
|                                            |                                                                                             | 5929.25              | 56.95               | -11.25           | 68.2                        | 43.76                     | 34                            | 13.76                  | 34.57                      | 247                  | 358                     | P                       | H               |
|                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                            |                                                                                             | 5649                 | 62.92               | -5.28            | 68.2                        | 50.34                     | 33.49                         | 13.44                  | 34.35                      | 400                  | 343                     | P                       | V               |
|                                            |                                                                                             | 5696.25              | 67.04               | -35.4            | 102.44                      | 54.23                     | 33.69                         | 13.51                  | 34.39                      | 400                  | 343                     | P                       | V               |
|                                            |                                                                                             | 5708.25              | 69.78               | -37.73           | 107.51                      | 56.9                      | 33.75                         | 13.53                  | 34.4                       | 400                  | 343                     | P                       | V               |
|                                            |                                                                                             | 5721.5               | 65.68               | -48.54           | 114.22                      | 52.71                     | 33.83                         | 13.55                  | 34.41                      | 400                  | 343                     | P                       | V               |
|                                            | *                                                                                           | 5775                 | 109.74              | -                | -                           | 96.56                     | 34                            | 13.63                  | 34.45                      | 400                  | 343                     | P                       | V               |
|                                            | *                                                                                           | 5775                 | 100.72              | -                | -                           | 87.54                     | 34                            | 13.63                  | 34.45                      | 400                  | 343                     | A                       | V               |
|                                            |                                                                                             | 5851.5               | 63.34               | -55.44           | 118.78                      | 50.24                     | 33.9                          | 13.71                  | 34.51                      | 400                  | 343                     | P                       | V               |
|                                            |                                                                                             | 5856.5               | 64.95               | -45.43           | 110.38                      | 51.84                     | 33.91                         | 13.71                  | 34.51                      | 400                  | 343                     | P                       | V               |
|                                            |                                                                                             | 5877.25              | 61.09               | -42.44           | 103.53                      | 47.95                     | 33.95                         | 13.72                  | 34.53                      | 400                  | 343                     | P                       | V               |
|                                            |                                                                                             | 5939.25              | 53.64               | -14.56           | 68.2                        | 40.44                     | 34                            | 13.77                  | 34.57                      | 400                  | 343                     | 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 802.11ax HE80\_Full (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                                  | Note                                                                                                                                                                                                                                   | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11ax<br/>HE80 Full<br/>CH 155<br/>5775MHz</b> |                                                                                                                                                                                                                                        | 1264                 | 52.49               | -15.71           | 68.2                        | 53.8                      | 24.3                          | 6.18                   | 31.79                      | 247                  | 358                     | P                       | H               |
|                                                      |                                                                                                                                                                                                                                        | 1336                 | 53.98               | -20.02           | 74                          | 55.01                     | 24.44                         | 6.33                   | 31.8                       | 182                  | 51                      | P                       | H               |
|                                                      |                                                                                                                                                                                                                                        | 1336                 | 44.13               | -9.87            | 54                          | 45.16                     | 24.44                         | 6.33                   | 31.8                       | 182                  | 51                      | A                       | H               |
|                                                      |                                                                                                                                                                                                                                        | 1858                 | 51.32               | -16.88           | 68.2                        | 50.6                      | 25.28                         | 7.48                   | 32.04                      | 247                  | 358                     | P                       | H               |
|                                                      |                                                                                                                                                                                                                                        | 11550                | 51.36               | -22.64           | 74                          | 32.12                     | 39.1                          | 20.17                  | 40.03                      | -                    | -                       | P                       | H               |
|                                                      |                                                                                                                                                                                                                                        | 11550                | 40.97               | -13.03           | 54                          | 21.73                     | 39.1                          | 20.17                  | 40.03                      | -                    | -                       | A                       | H               |
|                                                      |                                                                                                                                                                                                                                        | 17325                | 50.25               | -17.95           | 68.2                        | 31.27                     | 40.55                         | 24.79                  | 46.36                      | -                    | -                       | P                       | H               |
|                                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                      |                                                                                                                                                                                                                                        | 1264                 | 47.07               | -21.13           | 68.2                        | 48.38                     | 24.3                          | 6.18                   | 31.79                      | 400                  | 343                     | P                       | V               |
|                                                      |                                                                                                                                                                                                                                        | 1336                 | 53.28               | -20.72           | 74                          | 54.31                     | 24.44                         | 6.33                   | 31.8                       | 199                  | 180                     | P                       | V               |
|                                                      |                                                                                                                                                                                                                                        | 1336                 | 46.61               | -7.39            | 54                          | 47.64                     | 24.44                         | 6.33                   | 31.8                       | 199                  | 180                     | A                       | V               |
|                                                      |                                                                                                                                                                                                                                        | 1858                 | 46.76               | -21.44           | 68.2                        | 46.04                     | 25.28                         | 7.48                   | 32.04                      | 400                  | 343                     | P                       | V               |
|                                                      |                                                                                                                                                                                                                                        | 11550                | 51.47               | -22.53           | 74                          | 32.23                     | 39.1                          | 20.17                  | 40.03                      | -                    | -                       | P                       | V               |
|                                                      |                                                                                                                                                                                                                                        | 11550                | 41.05               | -12.95           | 54                          | 21.81                     | 39.1                          | 20.17                  | 40.03                      | -                    | -                       | A                       | V               |
|                                                      |                                                                                                                                                                                                                                        | 17325                | 51.2                | -17              | 68.2                        | 32.22                     | 40.55                         | 24.79                  | 46.36                      | -                    | -                       | P                       | V               |
|                                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | 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.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11ax HE80\_Partial 484 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                                        | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE80<br>Partial<br>484/65<br>CH 155<br>5775MHz |                                                                                             | 5646.75              | 63.16               | -5.04            | 68.2                        | 50.59                     | 33.48                         | 13.44                  | 34.35                      | 267                  | 0                       | P                       | H               |
|                                                            |                                                                                             | 5663                 | 67.6                | -10.25           | 77.85                       | 54.95                     | 33.55                         | 13.46                  | 34.36                      | 267                  | 0                       | P                       | H               |
|                                                            |                                                                                             | 5717.75              | 70.37               | -39.8            | 110.17                      | 57.42                     | 33.81                         | 13.55                  | 34.41                      | 267                  | 0                       | P                       | H               |
|                                                            |                                                                                             | 5723.25              | 72.23               | -45.98           | 118.21                      | 59.25                     | 33.84                         | 13.55                  | 34.41                      | 267                  | 0                       | P                       | H               |
|                                                            | *                                                                                           | 5775                 | 112.59              | -                | -                           | 99.41                     | 34                            | 13.63                  | 34.45                      | 267                  | 0                       | P                       | H               |
|                                                            | *                                                                                           | 5775                 | 103.45              | -                | -                           | 90.27                     | 34                            | 13.63                  | 34.45                      | 267                  | 0                       | A                       | H               |
|                                                            |                                                                                             | 5853.5               | 72.63               | -41.59           | 114.22                      | 59.52                     | 33.91                         | 13.71                  | 34.51                      | 267                  | 0                       | P                       | H               |
|                                                            |                                                                                             | 5863                 | 69.35               | -39.21           | 108.56                      | 56.23                     | 33.93                         | 13.71                  | 34.52                      | 267                  | 0                       | P                       | H               |
|                                                            |                                                                                             | 5883.75              | 65.86               | -32.84           | 98.7                        | 52.69                     | 33.97                         | 13.73                  | 34.53                      | 267                  | 0                       | P                       | H               |
|                                                            |                                                                                             | 5935.75              | 58.85               | -9.35            | 68.2                        | 45.65                     | 34                            | 13.77                  | 34.57                      | 267                  | 0                       | P                       | H               |
|                                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                            |                                                                                             | 5648                 | 58.34               | -9.86            | 68.2                        | 45.76                     | 33.49                         | 13.44                  | 34.35                      | 150                  | 331                     | P                       | V               |
|                                                            |                                                                                             | 5667                 | 63.66               | -17.16           | 80.82                       | 50.99                     | 33.57                         | 13.47                  | 34.37                      | 150                  | 331                     | P                       | V               |
|                                                            |                                                                                             | 5718.25              | 63.78               | -46.53           | 110.31                      | 50.83                     | 33.81                         | 13.55                  | 34.41                      | 150                  | 331                     | P                       | V               |
|                                                            |                                                                                             | 5722.75              | 70.16               | -46.91           | 117.07                      | 57.18                     | 33.84                         | 13.55                  | 34.41                      | 150                  | 331                     | P                       | V               |
|                                                            | *                                                                                           | 5775                 | 108.86              | -                | -                           | 95.68                     | 34                            | 13.63                  | 34.45                      | 150                  | 331                     | P                       | V               |
|                                                            | *                                                                                           | 5775                 | 99.47               | -                | -                           | 86.29                     | 34                            | 13.63                  | 34.45                      | 150                  | 331                     | A                       | V               |
|                                                            |                                                                                             | 5852                 | 57.38               | -60.26           | 117.64                      | 44.28                     | 33.9                          | 13.71                  | 34.51                      | 150                  | 331                     | P                       | V               |
|                                                            |                                                                                             | 5862.5               | 67.69               | -41.01           | 108.7                       | 54.57                     | 33.93                         | 13.71                  | 34.52                      | 150                  | 331                     | P                       | V               |
|                                                            |                                                                                             | 5877.25              | 62.99               | -40.54           | 103.53                      | 49.85                     | 33.95                         | 13.72                  | 34.53                      | 150                  | 331                     | P                       | V               |
|                                                            |                                                                                             | 5929.5               | 52.52               | -15.68           | 68.2                        | 39.33                     | 34                            | 13.76                  | 34.57                      | 150                  | 331                     | P                       | V               |
|                                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                                            |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |



| WIFI<br>Ant.<br>1+2                                                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11ax<br/>HE80<br/>Partial<br/>484/66<br/>CH 155<br/>5775MHz</b> |                                                                                             | 5647.25              | 66.76               | -1.44            | 68.2                        | 54.19                     | 33.48                         | 13.44                  | 34.35                      | 258                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5697.25              | 71.45               | -31.72           | 103.17                      | 58.63                     | 33.69                         | 13.52                  | 34.39                      | 258                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5718.5               | 78.42               | -31.96           | 110.38                      | 65.47                     | 33.81                         | 13.55                  | 34.41                      | 258                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5722.5               | 80.19               | -36.31           | 116.5                       | 67.22                     | 33.83                         | 13.55                  | 34.41                      | 258                  | 0                       | P                       | H               |
|                                                                        | *                                                                                           | 5775                 | 112.8               | -                | -                           | 99.62                     | 34                            | 13.63                  | 34.45                      | 258                  | 0                       | P                       | H               |
|                                                                        | *                                                                                           | 5775                 | 104.72              | -                | -                           | 91.54                     | 34                            | 13.63                  | 34.45                      | 258                  | 0                       | A                       | H               |
|                                                                        |                                                                                             | 5852.5               | 74.18               | -42.32           | 116.5                       | 61.07                     | 33.91                         | 13.71                  | 34.51                      | 258                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5862.25              | 75.85               | -32.92           | 108.77                      | 62.74                     | 33.92                         | 13.71                  | 34.52                      | 258                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5882.75              | 71.27               | -28.17           | 99.44                       | 58.1                      | 33.97                         | 13.73                  | 34.53                      | 258                  | 0                       | P                       | H               |
|                                                                        |                                                                                             | 5928                 | 63.19               | -5.01            | 68.2                        | 50                        | 34                            | 13.76                  | 34.57                      | 258                  | 0                       | P                       | H               |
|                                                                        |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                                        |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                                        |                                                                                             | 5632.5               | 57.74               | -10.46           | 68.2                        | 45.26                     | 33.4                          | 13.42                  | 34.34                      | 113                  | 325                     | P                       | V               |
|                                                                        |                                                                                             | 5696                 | 66.13               | -36.12           | 102.25                      | 53.33                     | 33.68                         | 13.51                  | 34.39                      | 113                  | 325                     | P                       | V               |
|                                                                        |                                                                                             | 5712.25              | 71.46               | -37.17           | 108.63                      | 58.55                     | 33.77                         | 13.54                  | 34.4                       | 113                  | 325                     | P                       | V               |
|                                                                        | *                                                                                           | 5725                 | 72.82               | -49.38           | 122.2                       | 59.82                     | 33.85                         | 13.56                  | 34.41                      | 113                  | 325                     | P                       | V               |
|                                                                        | *                                                                                           | 5775                 | 108.54              | -                | -                           | 95.36                     | 34                            | 13.63                  | 34.45                      | 113                  | 325                     | P                       | V               |
|                                                                        |                                                                                             | 5775                 | 100.31              | -                | -                           | 87.13                     | 34                            | 13.63                  | 34.45                      | 113                  | 325                     | A                       | V               |
|                                                                        |                                                                                             | 5850.5               | 74.43               | -46.63           | 121.06                      | 61.33                     | 33.9                          | 13.71                  | 34.51                      | 113                  | 325                     | P                       | V               |
|                                                                        |                                                                                             | 5861.25              | 74.67               | -34.38           | 109.05                      | 61.55                     | 33.92                         | 13.71                  | 34.51                      | 113                  | 325                     | P                       | V               |
|                                                                        |                                                                                             | 5876                 | 68.39               | -36.07           | 104.46                      | 55.25                     | 33.95                         | 13.72                  | 34.53                      | 113                  | 325                     | P                       | V               |
|                                                                        |                                                                                             | 5939.75              | 60.95               | -7.25            | 68.2                        | 47.75                     | 34                            | 13.77                  | 34.57                      | 113                  | 325                     | 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 above 1GHz

## 5GHz WIFI 802.11ax HE80 Full (SHF @ 1m)

[illegible]

## Emission below 1GHz

## 5GHz WIFI 802.11ax HE80 Full (LF @ 3m)

| WIFI                        | Note                                                                                                                                                               | Frequency | Level      | Margin | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                        |                                                                                                                                                                    |           |            |        | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                         |                                                                                                                                                                    | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ax<br>HE80 Full<br>LF |                                                                                                                                                                    | 45.39     | 26.91      | -13.09 | 40         | 41.35  | 17.12    | 1.16   | 32.72  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 149.88    | 32.27      | -11.23 | 43.5       | 45.77  | 17.03    | 2.18   | 32.71  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 224.94    | 37.95      | -8.05  | 46         | 52.4   | 15.58    | 2.64   | 32.67  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 450.5     | 37.51      | -8.49  | 46         | 43.51  | 22.96    | 3.79   | 32.75  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 675.9     | 39.24      | -6.76  | 46         | 41.04  | 26.39    | 4.61   | 32.8   | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 889.4     | 37.97      | -8.03  | 46         | 35.68  | 28.96    | 5.25   | 31.92  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    | 45.39     | 33.61      | -6.39  | 40         | 48.05  | 17.12    | 1.16   | 32.72  | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 149.07    | 34.66      | -8.84  | 43.5       | 48.11  | 17.09    | 2.17   | 32.71  | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 225.21    | 39.31      | -6.69  | 46         | 53.71  | 15.61    | 2.66   | 32.67  | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 440.7     | 42.09      | -3.91  | 46         | 48.31  | 22.77    | 3.75   | 32.74  | 100    | 170     | Q     | V     |
|                             |                                                                                                                                                                    | 675.2     | 38.63      | -7.37  | 46         | 40.43  | 26.39    | 4.61   | 32.8   | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 881.7     | 38.78      | -7.22  | 46         | 36.41  | 29.1     | 5.25   | 31.98  | -      | -       | P     | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         | V     |       |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         | V     |       |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         | V     |       |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                      | 1. No other spurious found.                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       |       |
|                             | 2. All results are PASS against limit line.                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       |       |
|                             | 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       |       |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>Margin</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      | Margin | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                         |      |           |            |        | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                          |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 149<br>5745MHz |      | 5650      | 55.45      | -12.75 | 68.2       | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | 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. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 5650MHz:**

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. Margin(dB)  
 = Level(dBμV/m) – Limit Line(dBμV/m)  
 = 55.45(dBμV/m) – 68.2(dBμV/m)  
 = -12.75 (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> | Ken Kuo, Bank Lin, Fred Tseng, and Karl Hou | <b>Temperature :</b>       | 20.8~24.8°C |
|                        |                                             | <b>Relative Humidity :</b> | 52.4~63.8%  |

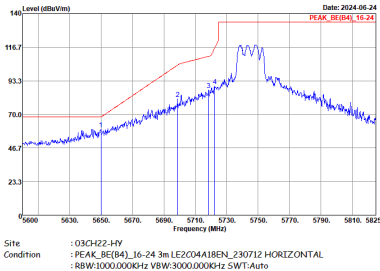
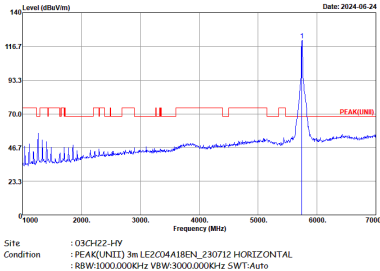
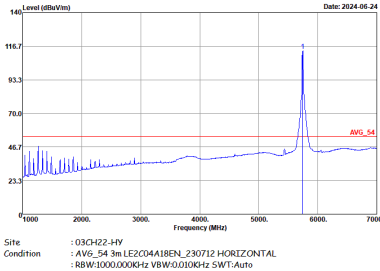
### Note symbol

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



## Band 4 - 5725~5850MHz

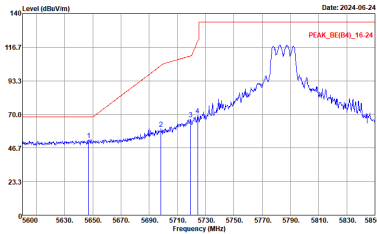
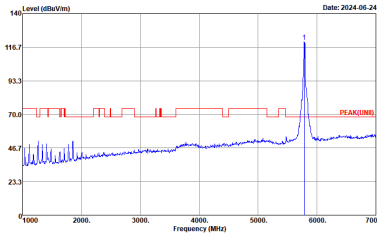
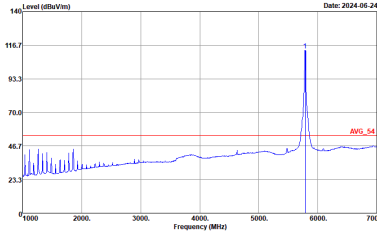
## WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH149 5745MHz                                                                                                                                                                                                       |                                                                                                                                                                                                                       |
| 1+2  | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_18(04)_16-24 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                  |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

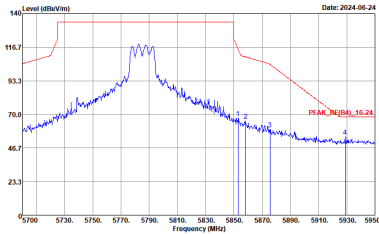


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                      |                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH149 5745MHz                                                                                                                   |                                                                                                                                  |
| 1+2  | Vertical                                                                                                                                | Fundamental                                                                                                                      |
| Peak | <p>Site : 03CH22-HY<br/>Condition : PEAK_8E(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                              | <p>Site : 03CH22-HY<br/>Condition : AV6_54 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>        |

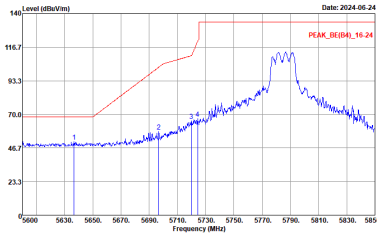
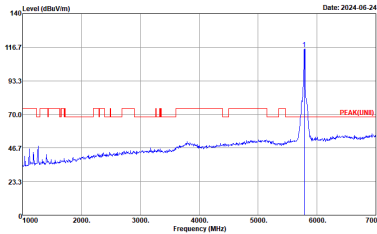
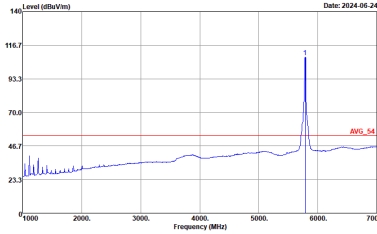


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                         |                                                                                                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18ENL_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18ENL_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                 |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |



| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                                 |             |
| 1+2  | Horizontal                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_IN (H4)_16-24 3m LE2004A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

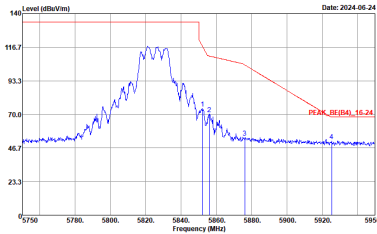
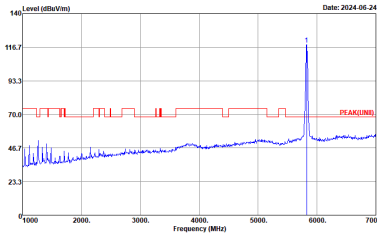
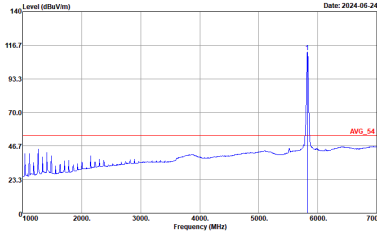


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz                                                                                                                                                                                                     |                                                                                                                                                                                                                     |
| 1+2  | Vertical                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

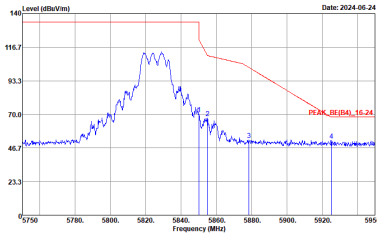
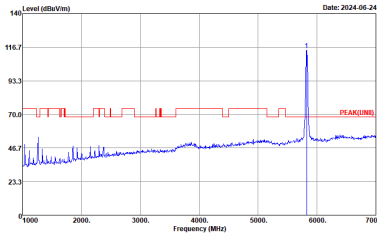
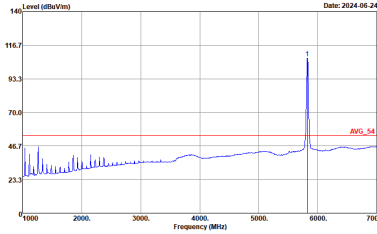


|      |                                                                                                                                                |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                             |             |
| ANT  | 802.11a CH157 5785MHz                                                                                                                          |             |
| 1+2  | Vertical                                                                                                                                       | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_IN(16-24) 3m LE2004A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |



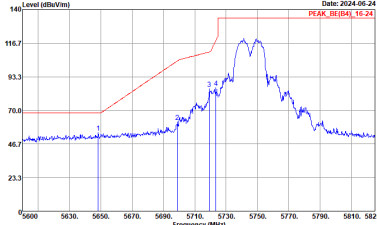
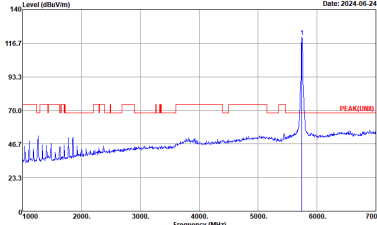
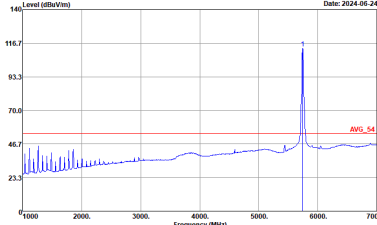
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                               |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH165 5825MHz                                                                                                                                                                                                               |                                                                                                                                                                                                                               |
| 1+2  | Horizontal                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                   |
| Peak | <div><p>Site : 03CH22-HY<br/>Condition : PEAK_80[94]_16-24 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK[LINE] 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |
| Avg  | Left blank                                                                                                                                                                                                                          | <div><p>Site : 03CH22-HY<br/>Condition : AV6_54 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p></div>      |



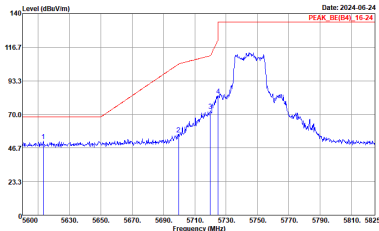
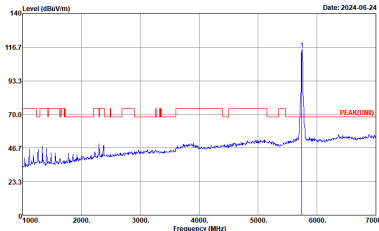
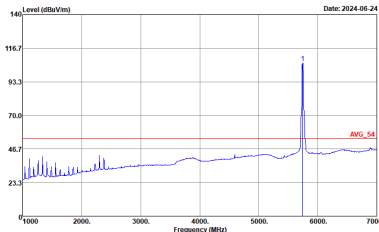
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH165 5825MHz                                                                                                                                                                                                               |                                                                                                                                                                                                                                |
| 1+2  | Vertical                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH22-HY<br/>Condition : PEAK_80[94]_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(LINE1) 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |
| Avg  | Left blank                                                                                                                                                                                                                          | <div><p>Site : 03CH22-HY<br/>Condition : AV6_54 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p></div>       |



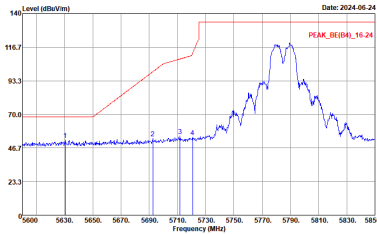
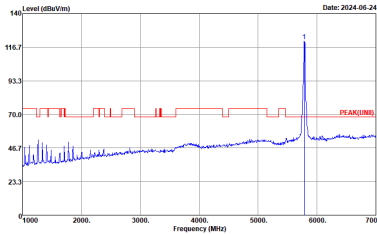
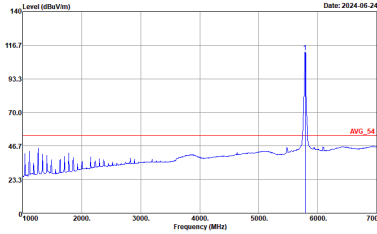
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Full (Band Edge @ 3m)**

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH149 5745MHz                                                                                                                                                                                            |                                                                                                                                                                                                                       |
| 1+2  | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(84)_16-24 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                  |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

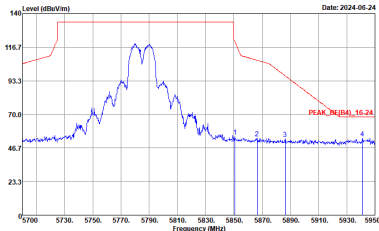


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                |                                                                                                                                                                                                                             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH149 5745MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                             |
| 1+2  | Vertical                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                 |
| Peak | <div><p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |
| Avg  | Left blank                                                                                                                                                                                                                        | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p></div>      |

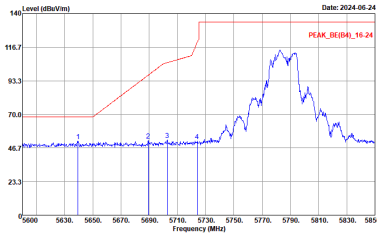
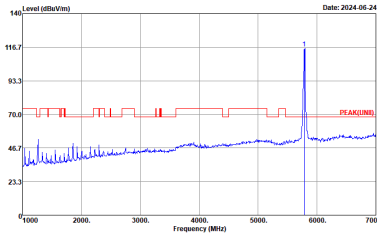
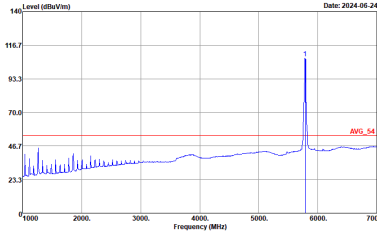


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH157 5785MHz                                                                                                                                                                                            |                                                                                                                                                                                                                       |
| 1+2  | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                  |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

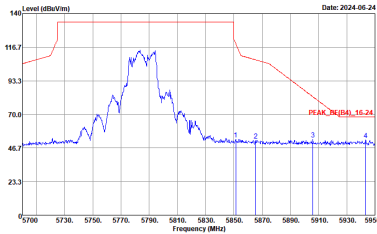


|      |                                                                                                                                                                                                                              |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                           |             |
| ANT  | 802.11ax HE20 Full CH157 5785MHz                                                                                                                                                                                             |             |
| 1+2  | Horizontal                                                                                                                                                                                                                   | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_16-24 3m LE204A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

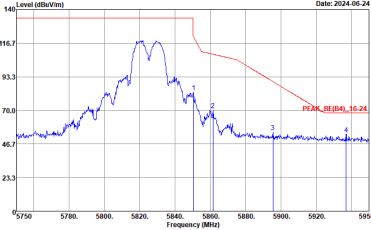
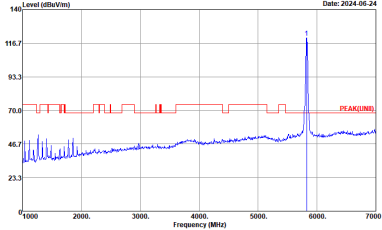
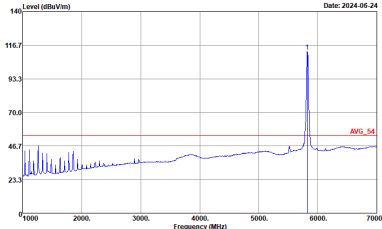


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH157 5785MHz                                                                                                                                                                                          |                                                                                                                                                                                                                     |
| 1+2  | Vertical                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

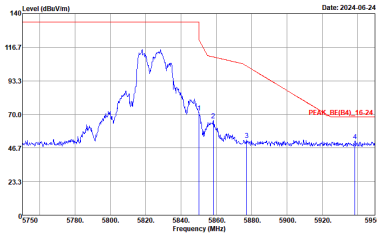
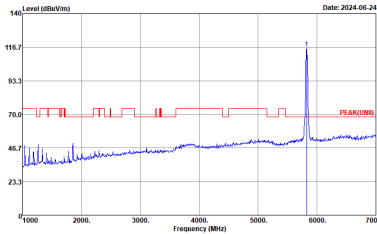
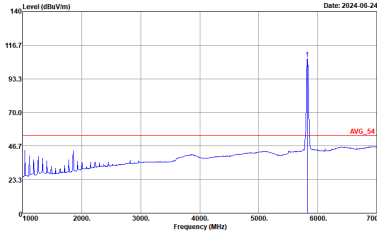


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                 |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE20 Full CH157 5785MHz                                                                                                                                                                                                   |             |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_80211ax_16-24 3m LE204A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |



| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                               |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH165 5825MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                               |
| 1+2  | Horizontal                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                   |
| Peak | <div><p>Site : 03CH22-HY<br/>Condition : PEAK_8E[94]_16-24 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |
| Avg  | Left blank                                                                                                                                                                                                                          | <div><p>Site : 03CH22-HY<br/>Condition : AV6_54 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p></div>      |

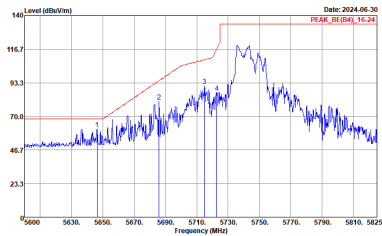
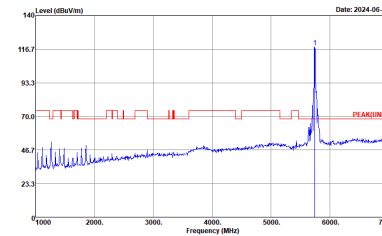
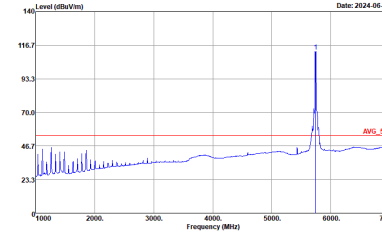


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                            |                                                                                                                                                                                                                             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH165 5825MHz                                                                                                                                                                                              |                                                                                                                                                                                                                             |
| 1+2  | Vertical                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                 |
| Peak | <div><p>Site : 03CH22-HY<br/>Condition : PEAK_B4_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(FUNB) 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |
| Avg  | Left blank                                                                                                                                                                                                                    | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p></div>      |

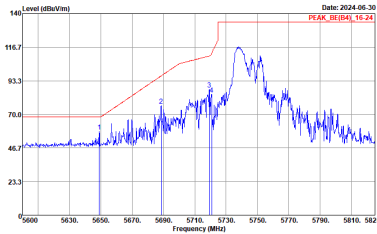
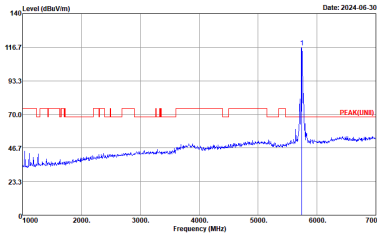
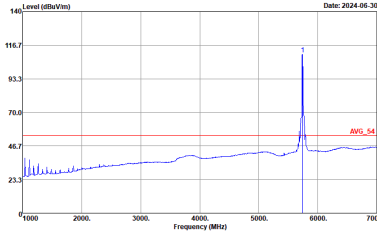


## Band 4 5725~5850MHz

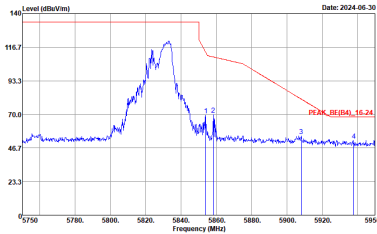
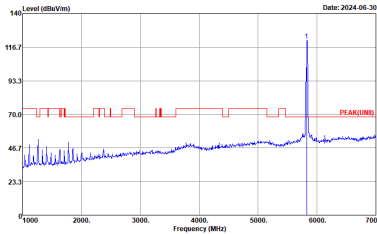
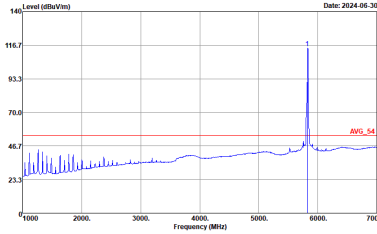
## WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Partial 106/53 CH149 5745MHz                                                                                                                                                                                  |                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(84)_16-24 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNI) 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                  |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

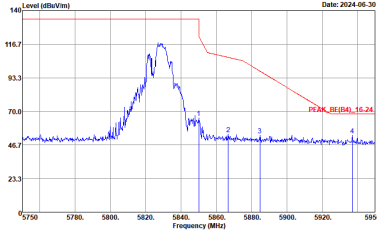
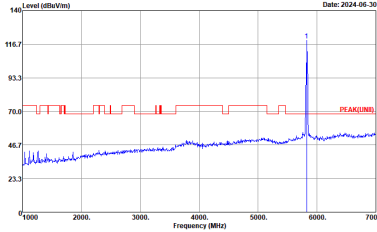
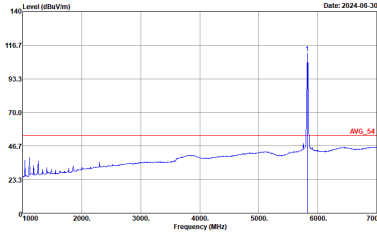


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Partial 106/53 CH149 5745MHz                                                                                                                                                                              |                                                                                                                                                                                                                   |
| 1+2  | Vertical                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                              |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |



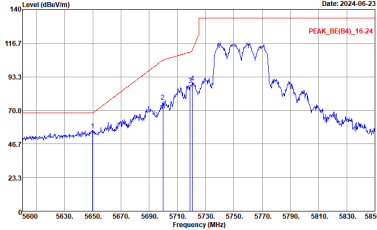
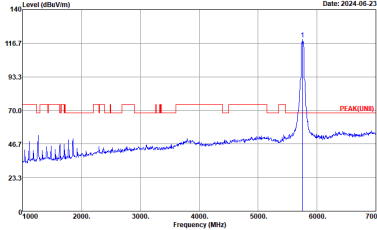
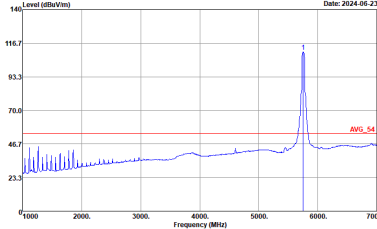
|      |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                |
| ANT  | 802.11ax HE20 Partial 106/54 CH165 5825MHz                                                                                                                                                                                          |                                                                                                                                                                                                                                |
| 1+2  | Horizontal                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH22-HY<br/>Condition : PEAK_80[94]_16-24 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK[LINE1] 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |
| Avg  | Left blank                                                                                                                                                                                                                          | <div><p>Site : 03CH22-HY<br/>Condition : AV6_54 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p></div>       |



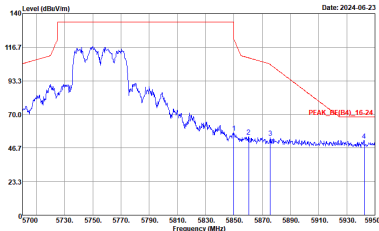
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Partial 106/54 CH165 5825MHz                                                                                                                                                                              |                                                                                                                                                                                                                    |
| 1+2  | Vertical                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_8E(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE1) 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                              |  <p>Site : 03CH22-HY<br/>Condition : AV6_54 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>       |



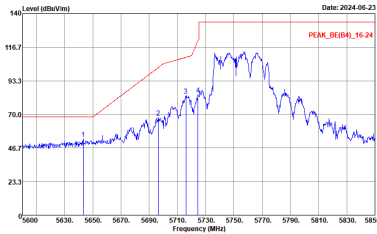
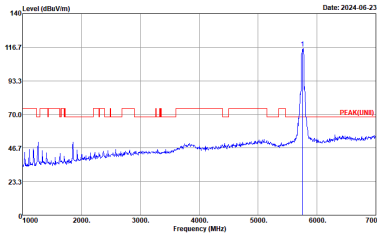
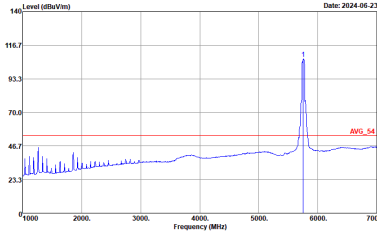
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Full (Band Edge @ 3m)**

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Full CH151 5755MHz                                                                                                                                                                                            |                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNB) 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                  |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

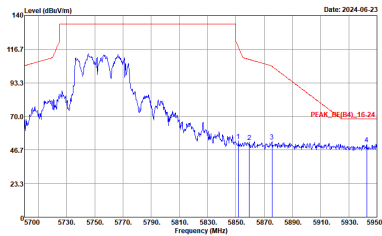


|      |                                                                                                                                                                                                                               |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                            |             |
| ANT  | 802.11ax HE40 Full CH151 5755MHz                                                                                                                                                                                              |             |
| 1+2  | Horizontal                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_16-24 3m LE2004A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

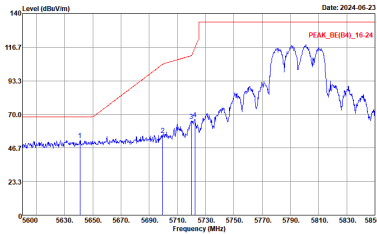
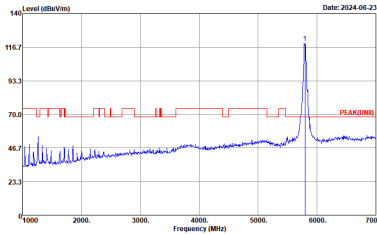
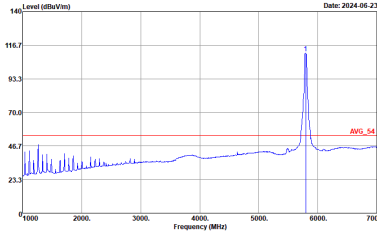


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Full CH151 5755MHz                                                                                                                                                                                          |                                                                                                                                                                                                                     |
| 1+2  | Vertical                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>   |

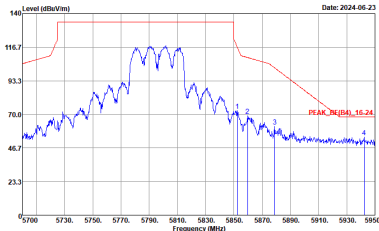


|      |                                                                                                                                                                                                                                    |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                 |             |
| ANT  | 802.11ax HE40 Full CH151 5755MHz                                                                                                                                                                                                   |             |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_IN(B4)_16-24 3m LE2004A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

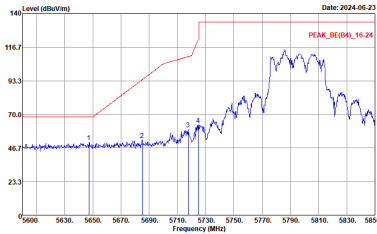
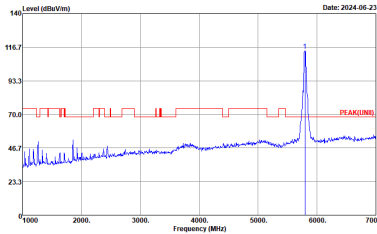
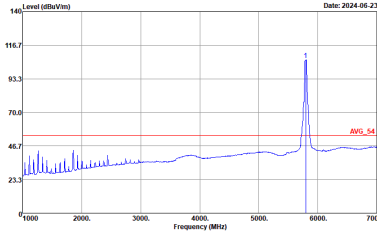


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Full HT40 CH159 5795MHz                                                                                                                                                                                     |                                                                                                                                                                                                                     |
| 1+2  | Horizontal                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

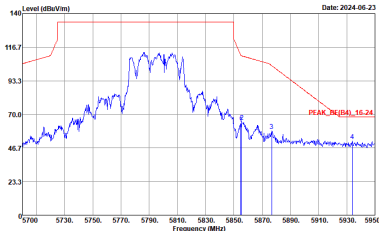


|      |                                                                                                                                                                                                                                      |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
| ANT  | 802.11ax HE40 Full HT40 CH159 5795MHz                                                                                                                                                                                                |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_IN(16)_16-24 3m LE2004A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |



| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Full CH159 5795MHz                                                                                                                                                                                          |                                                                                                                                                                                                                     |
| 1+2  | Vertical                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE[04]_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK[LINE] 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                |  <p>Site : 03CH22-HY<br/>Condition : AV6_54 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

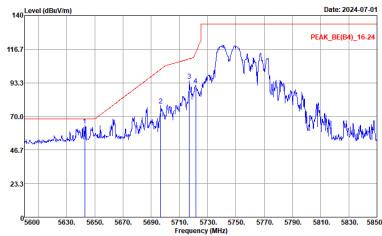
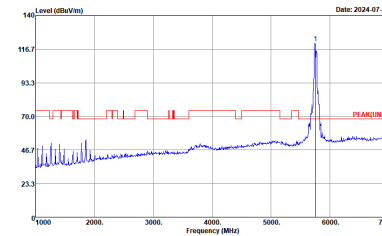
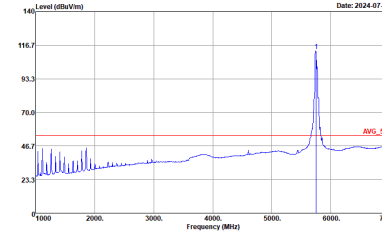


|      |                                                                                                                                                                                                                                     |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                  |             |
| ANT  | 802.11ax HE40 Full CH159 5795MHz                                                                                                                                                                                                    |             |
| 1+2  | Vertical                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_80211ax_16-24 3m LE2004A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

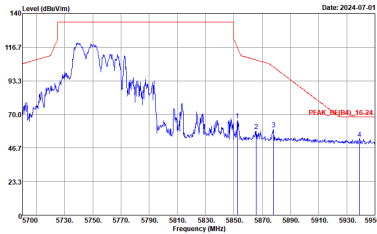


## Band 4 5725~5850MHz

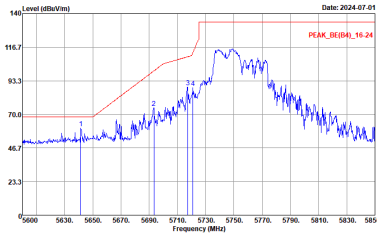
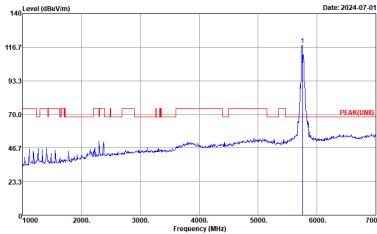
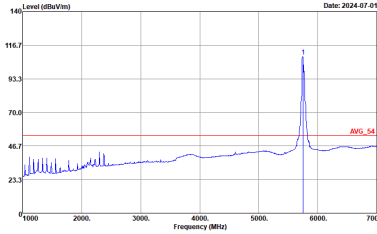
## WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Partial 242/61 CH151 5755MHz                                                                                                                                                                                  |                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNB) 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                  |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

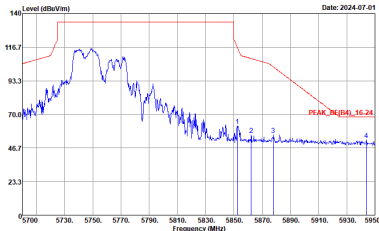


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE40 Partial 242/61 CH151 5755MHz                                                                                                                                                                                            |             |
| 1+2  | Horizontal                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_80211ax_16-24 3m LE2004A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

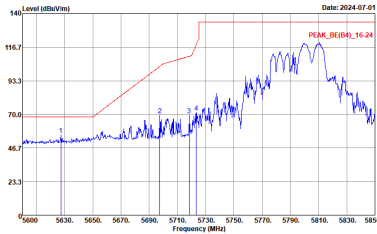
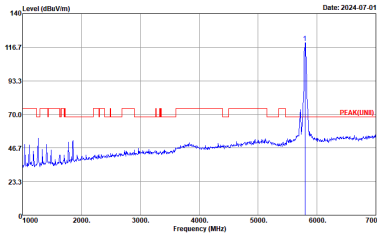
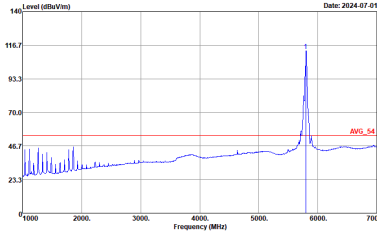


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Partial 242/61 CH151 5755MHz                                                                                                                                                                              |                                                                                                                                                                                                                   |
| 1+2  | Vertical                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(04)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                              |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

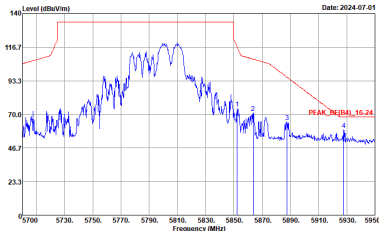


|      |                                                                                                                                                                                                                                     |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                  |             |
| ANT  | 802.11ax HE40 Partial 242/61 CH151 5755MHz                                                                                                                                                                                          |             |
| 1+2  | Vertical                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_IN (B4)_16-24 3m LE2004A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

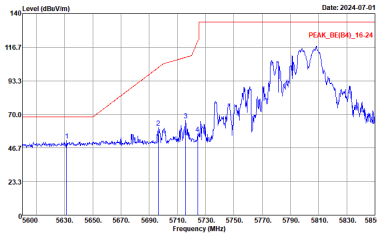
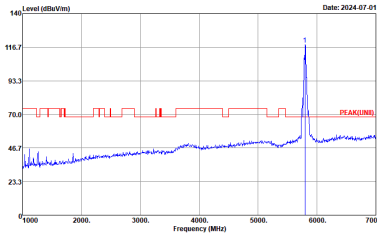
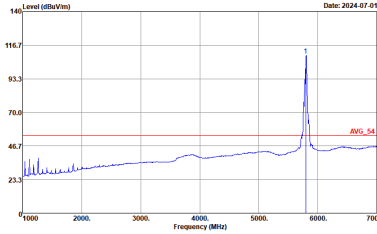


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Partial 242/62 CH159 5795MHz                                                                                                                                                                                |                                                                                                                                                                                                                     |
| 1+2  | Horizontal                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

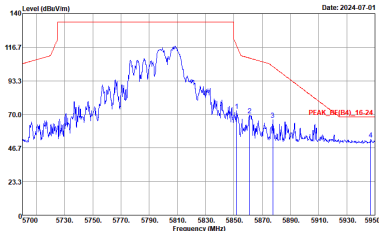


|      |                                                                                                                                                                                                                                       |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                    |             |
| ANT  | 802.11ax HE40 Partial 242/62 CH159 5795MHz                                                                                                                                                                                            |             |
| 1+2  | Horizontal                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_IN (H4)_16-24 3m LE2004A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |



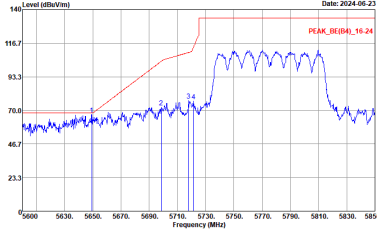
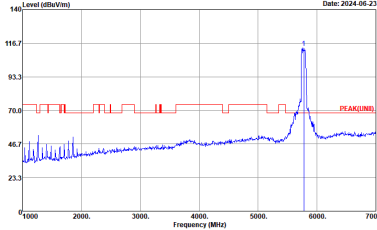
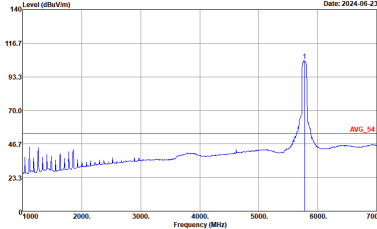
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Partial 242/62 CH159 5795MHz                                                                                                                                                                                |                                                                                                                                                                                                                     |
| 1+2  | Vertical                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |



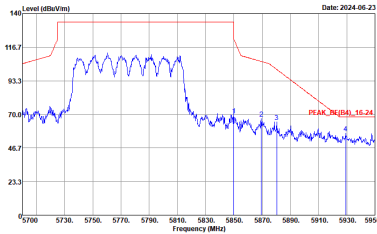
|      |                                                                                                                                                                                                                                    |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                 |             |
| ANT  | 802.11ax HE40 Partial 242/62 CH159 5795MHz                                                                                                                                                                                         |             |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_IN(04)_16-24 3m LE2004A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |



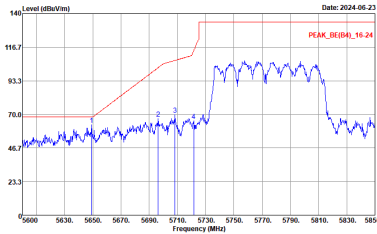
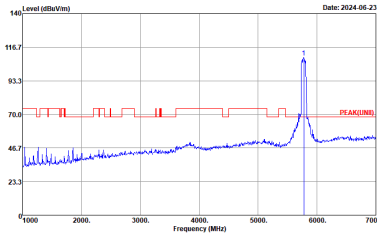
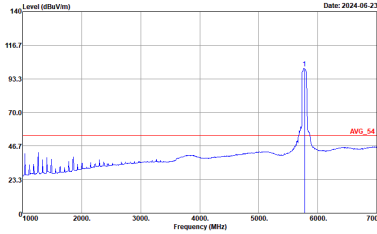
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Full (Band Edge @ 3m)**

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE80 Full CH155 5775MHz                                                                                                                                                                                            |                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                          |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNB) 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                                  |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

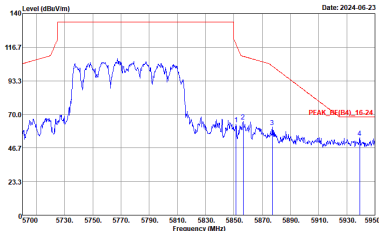


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE80 Full CH155 5775MHz                                                                                                                                                                                              |             |
| 1+2  | Horizontal                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_16-24 3m LE2004A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

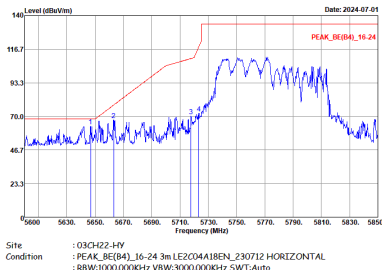
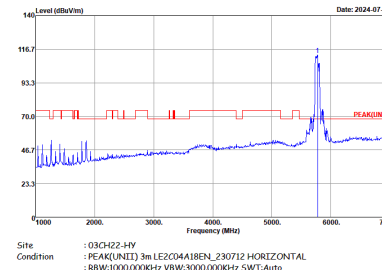
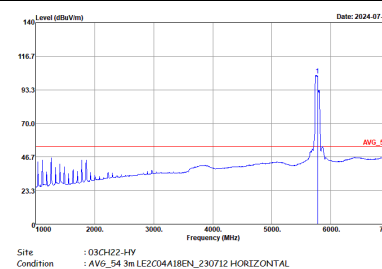


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE80 Full CH155 5775MHz                                                                                                                                                                                        |                                                                                                                                                                                                                   |
| 1+2  | Vertical                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                              |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

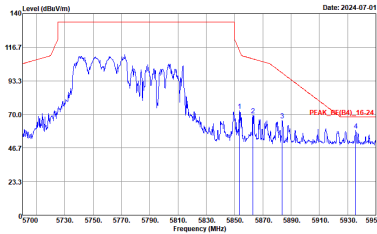


|      |                                                                                                                                                                                                                             |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |             |
| ANT  | 802.11ax HE80 Full CH155 5775MHz                                                                                                                                                                                            |             |
| 1+2  | Vertical                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 09CH22-HV<br/>Condition : PEAK_16-24 3m LE2004A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

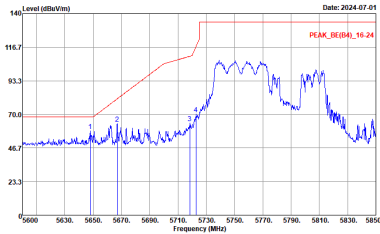
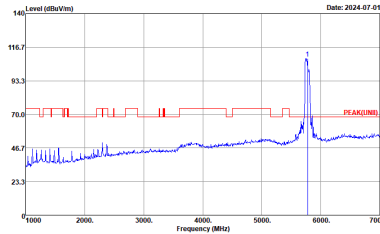
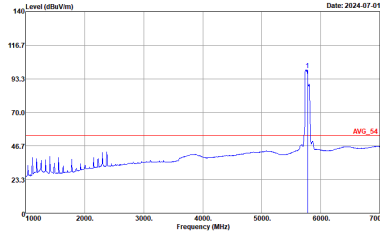
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)**

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                |                                                                                      |
|------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE80 Partial 484/65 CH155 5775MHz                                        |                                                                                      |
| 1+2  | Horizontal                                                                        | Fundamental                                                                          |
| Peak |  |    |
| Avg  | Left blank                                                                        |  |

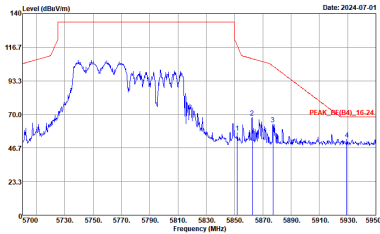


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE80 Partial 484/65 CH155 5775MHz                                                                                                                                                                                            |             |
| 1+2  | Horizontal                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 03CH22-HV<br/>Condition : PEAK_80211ax_16-24 3m LE2004A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |



| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE80 Partial 484/65 CH155 5775MHz                                                                                                                                                                              |                                                                                                                                                                                                                   |
| 1+2  | Vertical                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_RE(04)_16-24 3m LE2004A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2004A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                              |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>      |

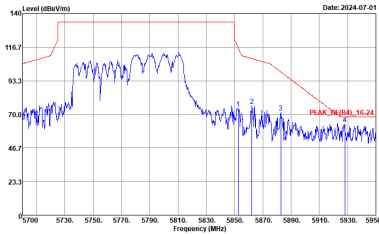


|      |                                                                                                                                                                                                                             |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                          |             |
| ANT  | 802.11ax HE80 Partial 484/65 CH155 5775MHz                                                                                                                                                                                  |             |
| 1+2  | Vertical                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH22-HV<br/>Condition : PEAK_16-24 3m LE2004A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |

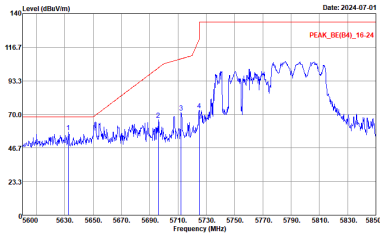
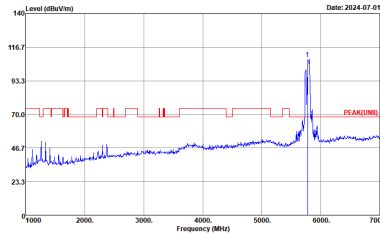
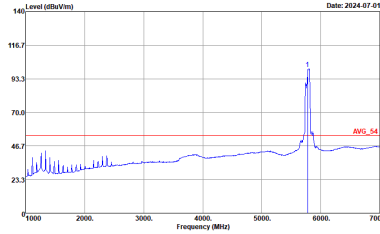


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                        |                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE80 Partial 484/66 CH155 5775MHz                                                                                                |                                                                                                                                    |
| 1+2  | Horizontal                                                                                                                                | Fundamental                                                                                                                        |
| Peak | <p>Site : 03CH22-HY<br/>Condition : PEAK_RE(04)_16-24 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                | <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>        |

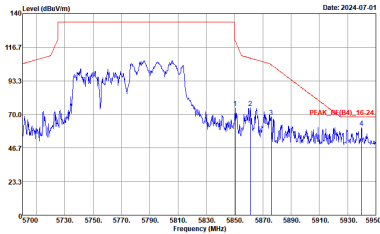


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE80 Partial 484/66 CH155 5775MHz                                                                                                                                                                                           |             |
| 1+2  | Horizontal                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 03CH22-HV<br/>Condition : PEAK_36(04)_16-24 3m LE2004A18ENL_230712 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |



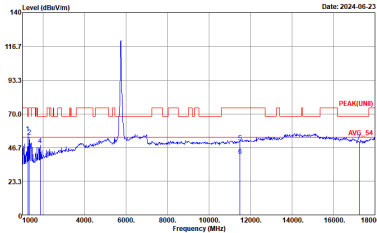
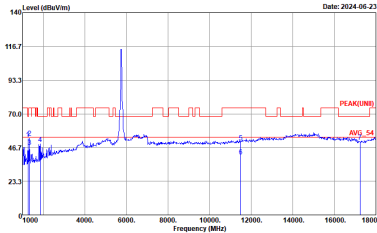
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE80 Partial 484/66 CH155 5775MHz                                                                                                                                                                              |                                                                                                                                                                                                                   |
| 1+2  | Vertical                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH22-HY<br/>Condition : PEAK_BE(04)_16-24 3m LE2004A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(LINE) 3m LE2004A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  | Left blank                                                                                                                                                                                                              |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>   |



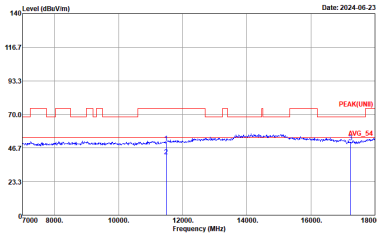
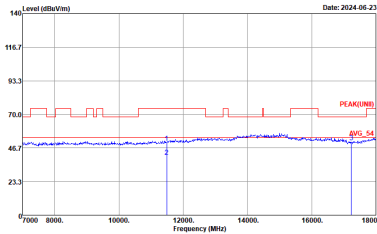
|      |                                                                                                                                                                                                                                    |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                 |             |
| ANT  | 802.11ax HE80 Partial 484/66 CH155 5775MHz                                                                                                                                                                                         |             |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 03CH22-HV<br/>Condition : PEAK_16(16)_16-24 3m LE2004A18ENL_230712 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p></div> | Left blank  |



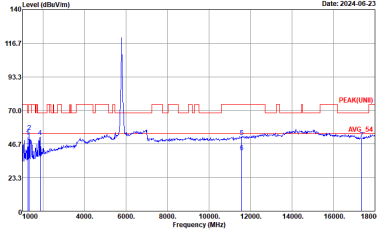
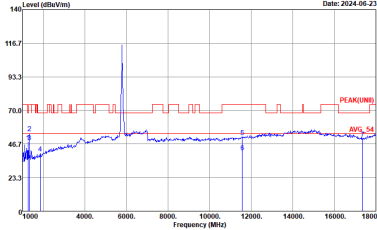
Band 4 - 5725~5850MHz  
WIFI 802.11a (Harmonic @ 3m)

|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11a CH149 5745MHz                                                                                                                                                                 |                                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL<br/>:</p></div> |

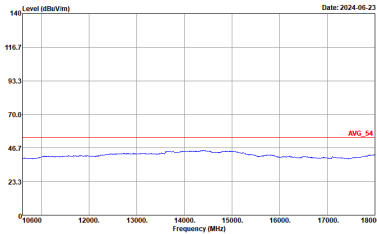
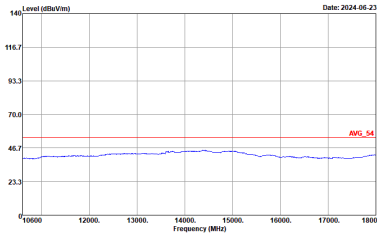


| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                      |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11a CH149 5745MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
| 1+2                      | Horizontal                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                             |
| 14.47G<br>~14.5G<br>Avg. |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2C04A18ENL_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2C04A18ENL_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|                          |                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |

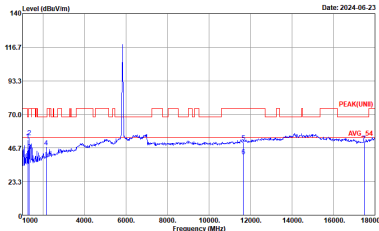
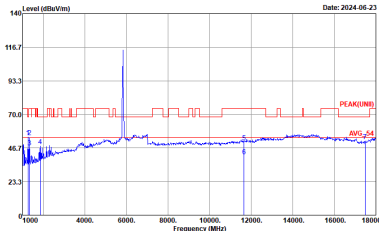


| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                           |                                                                                                                                                                            |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH157 5785MHz                                                                                                                                                       |                                                                                                                                                                            |
| 1+2          | Horizontal                                                                                                                                                                  | Vertical                                                                                                                                                                   |
| Peak<br>Avg. |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL<br/>:</p> |

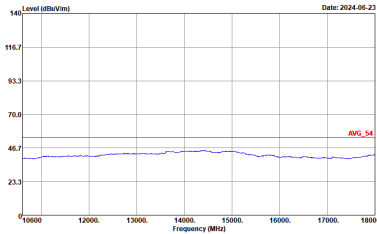
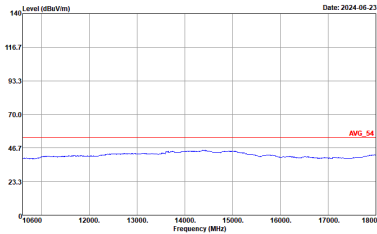


| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                         |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11a CH157 5785MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                         |
| 1+2                      | Horizontal                                                                                                                                                                                                               | Vertical                                                                                                                                                                                                                |
| 14.47G<br>~14.5G<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div> |
|                          |                                                                                                                                                                                                                          |                                                                                                                                                                                                                         |



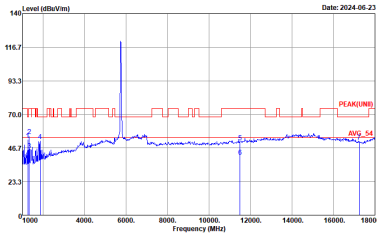
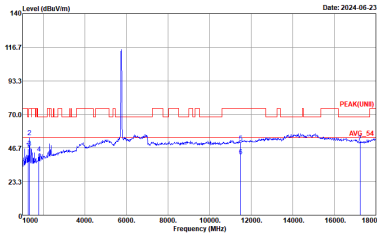
|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11a CH165 5825MHz                                                                                                                                                                 |                                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |



| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                              |                                                                                                                                                                                                               |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11a CH165 5825MHz                                                                                                                                                                                          |                                                                                                                                                                                                               |
| 1+2                      | Horizontal                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                      |
| 14.47G<br>~14.5G<br>Avg. |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> |  <p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> |
|                          |                                                                                                                                                                                                                |                                                                                                                                                                                                               |



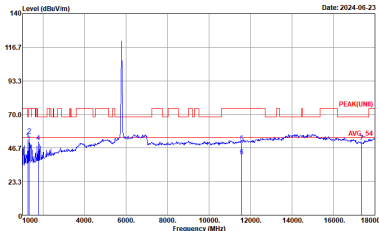
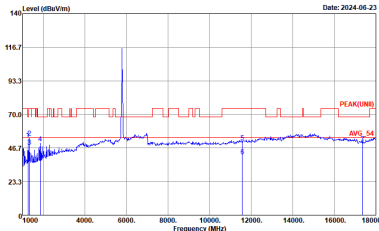
Band 4 5725~5850MHz  
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11ax HE20 Full CH149 5745MHz                                                                                                                                                      |                                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |

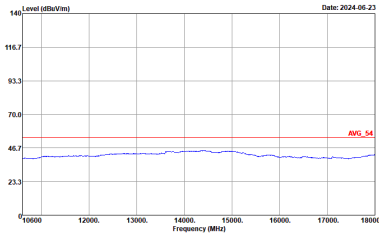
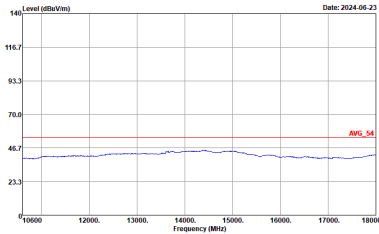


| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                   |                                                                                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE20 Full CH149 5745MHz                                                                                                                                                    |                                                                                                                                                                                   |
| 1+2                      | Horizontal                                                                                                                                                                          | Vertical                                                                                                                                                                          |
| 14.47G<br>~14.5G<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2024-06-23</p><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2024-06-23</p><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div> |
|                          |                                                                                                                                                                                     |                                                                                                                                                                                   |

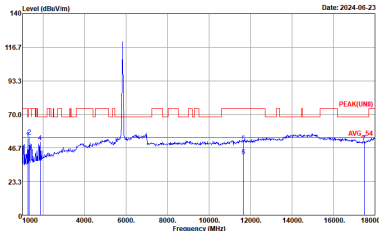
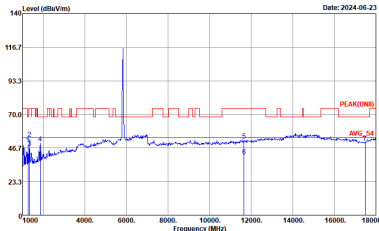


|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11ax HE20 Full CH157 5785MHz                                                                                                                                                      |                                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |

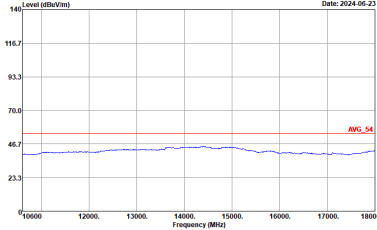
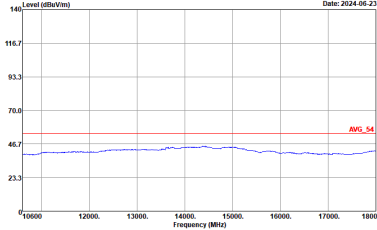


| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                         |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE20 Full CH157 5785MHz                                                                                                                                                                                         |                                                                                                                                                                                                                         |
| 1+2                      | Horizontal                                                                                                                                                                                                               | Vertical                                                                                                                                                                                                                |
| 14.47G<br>~14.5G<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div> |
|                          |                                                                                                                                                                                                                          |                                                                                                                                                                                                                         |



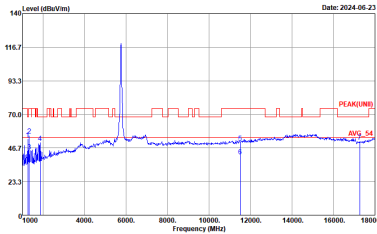
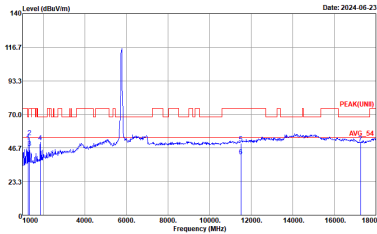
|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11ax HE20 Full CH165 5825MHz                                                                                                                                                      |                                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |



| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                         |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE20 Full CH165 5825MHz                                                                                                                                                                                         |                                                                                                                                                                                                                         |
| 1+2                      | Horizontal                                                                                                                                                                                                               | Vertical                                                                                                                                                                                                                |
| 14.47G<br>~14.5G<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2C04A18ENL_230712 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div> |
|                          |                                                                                                                                                                                                                          |                                                                                                                                                                                                                         |



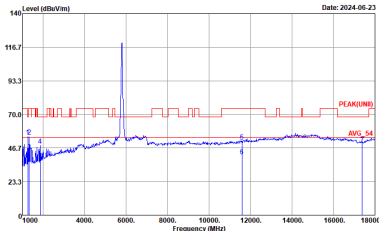
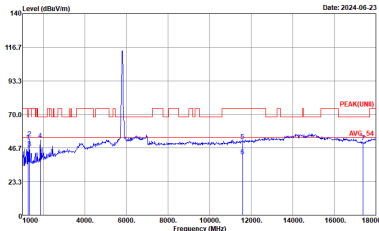
Band 4 5725~5850MHz  
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11ax HE40 Full CH151 5755MHz                                                                                                                                                      |                                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |



|                          |                                                                                            |                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                          |                                                                                          |
| ANT                      | 802.11ax HE40 Full CH151 5755MHz                                                           |                                                                                          |
| 1+2                      | Horizontal                                                                                 | Vertical                                                                                 |
| 14.47G<br>~14.5G<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL</p></div> |
|                          |                                                                                            |                                                                                          |



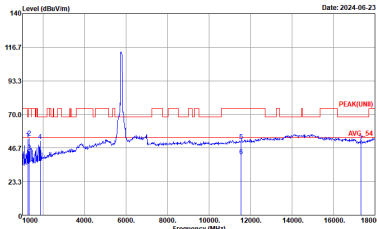
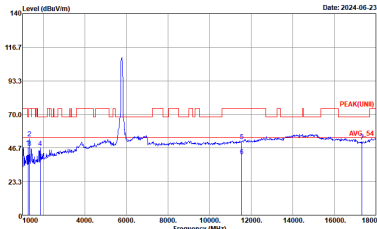
|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11ax HE40 Full CH159 5795MHz                                                                                                                                                      |                                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |



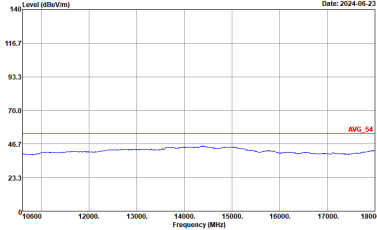
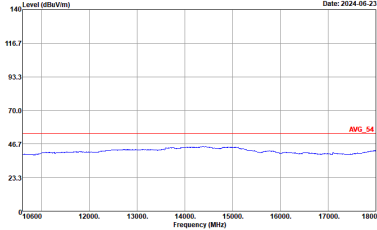
| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                            |                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE40 Full CH159 5795MHz                                                                                                             |                                                                                                                                            |
| 1+2                      | Horizontal                                                                                                                                   | Vertical                                                                                                                                   |
| 14.47G<br>~14.5G<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2024-06-23</p><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2024-06-23</p><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |
|                          |                                                                                                                                              |                                                                                                                                            |



Band 4 5725~5850MHz  
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11ax HE80 Full CH155 5775MHz                                                                                                                                                      |                                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |

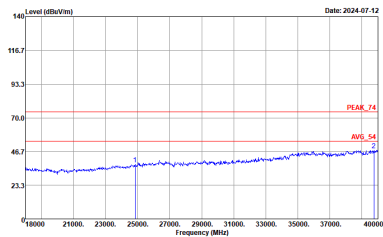
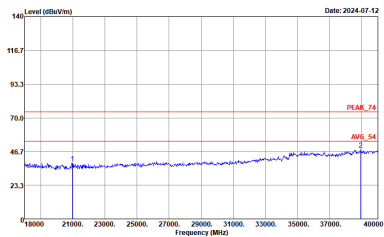


| WIFI                     | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                 |                                                                                                                                                                                  |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE80 Full CH155 5775MHz                                                                                                                                                  |                                                                                                                                                                                  |
| 1+2                      | Horizontal                                                                                                                                                                        | Vertical                                                                                                                                                                         |
| 14.47G<br>~14.5G<br>Avg. | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-HY<br/>Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL<br/>:</p></div> |
|                          |                                                                                                                                                                                   |                                                                                                                                                                                  |



## Emission above 18GHz

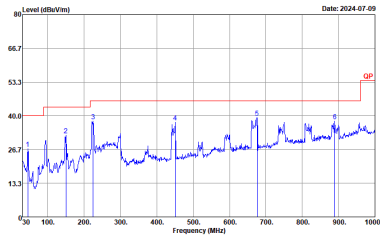
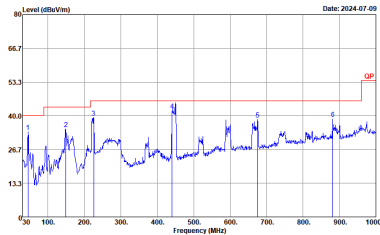
## 5GHz WIFI 802.11ax HE80 Full (SHF @ 1m)

| WIFI         | 5GHz WIFI                                                                                                                                                             |                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ax HE80 Full SHF                                                                                                                                                |                                                                                                                                                                      |
| 1+2          | Horizontal                                                                                                                                                            | Vertical                                                                                                                                                             |
| Peak<br>Avg. |  <p>Site : 03CH22-HY<br/>Condition : PEAK_74 1m SHF 1224_240624 HORIZONTAL<br/>:</p> |  <p>Site : 03CH22-HY<br/>Condition : PEAK_74 1m SHF 1224_240624 VERTICAL<br/>:</p> |



Emission below 1GHz

5GHz WIFI 802.11ax HE80 Full (LF @ 3m)

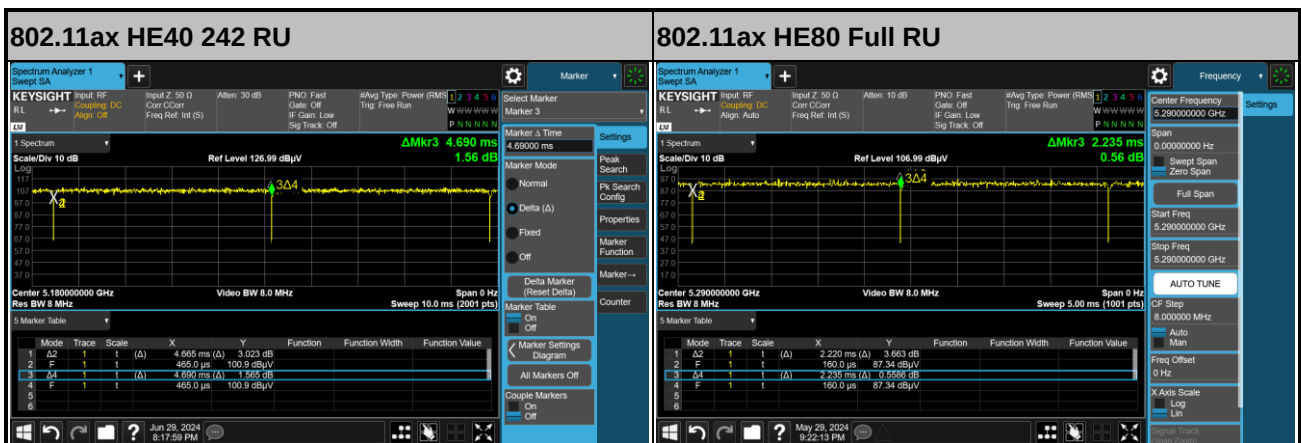
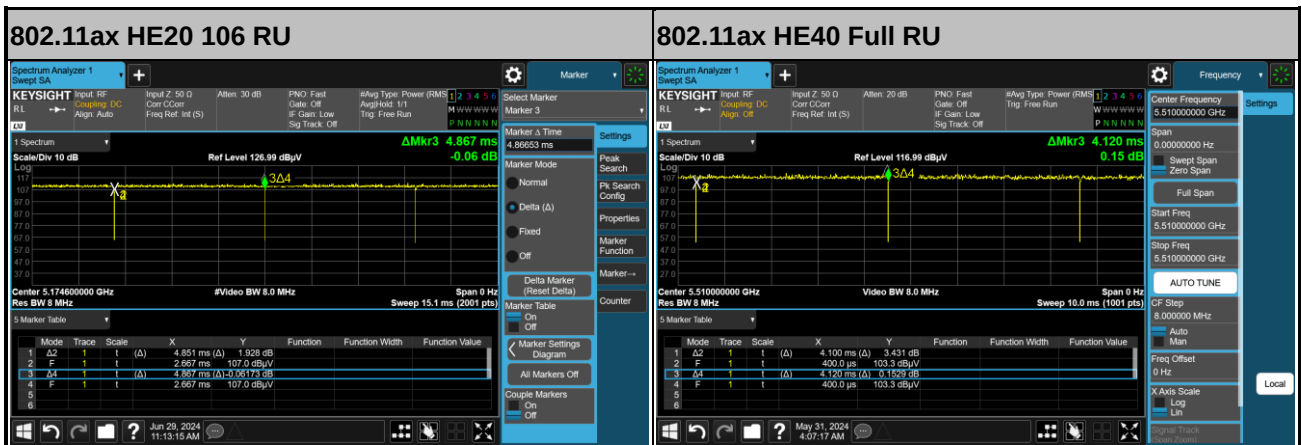
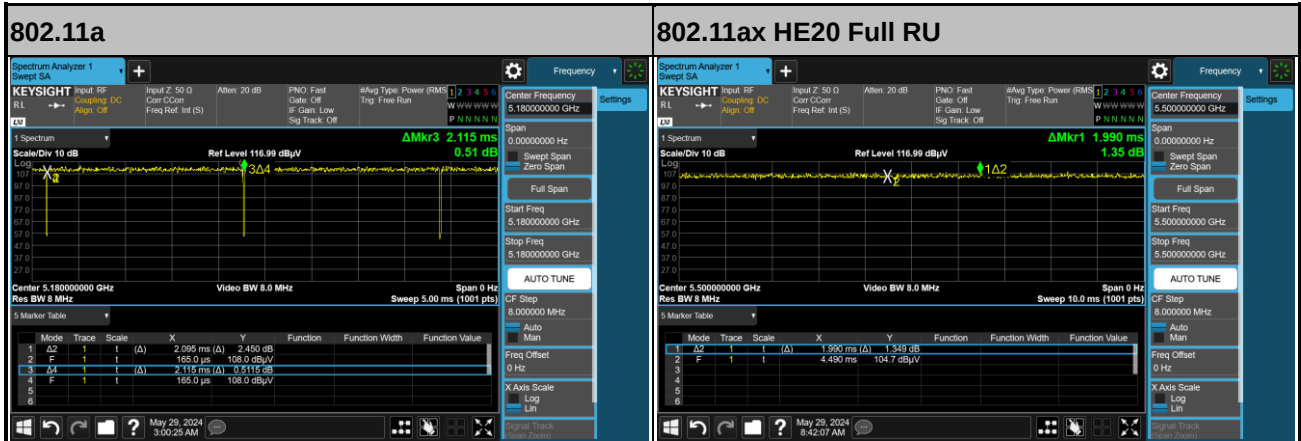
| WIFI         | 5GHz WIFI                                                                                                                                                                       |                                                                                                                                                                                |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ax HE80 Full LF                                                                                                                                                           |                                                                                                                                                                                |
| 1+2          | Horizontal                                                                                                                                                                      | Vertical                                                                                                                                                                       |
| QP /<br>Peak | <div><p>Site : 03CH22-4Y<br/>Condition : QP 3m BIL0663304_231015_16 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH22-4Y<br/>Condition : QP 3m BIL0663304_231015_16 VERTICAL<br/>:</p></div> |
|              |                                                                                                                                                                                 |                                                                                                                                                                                |

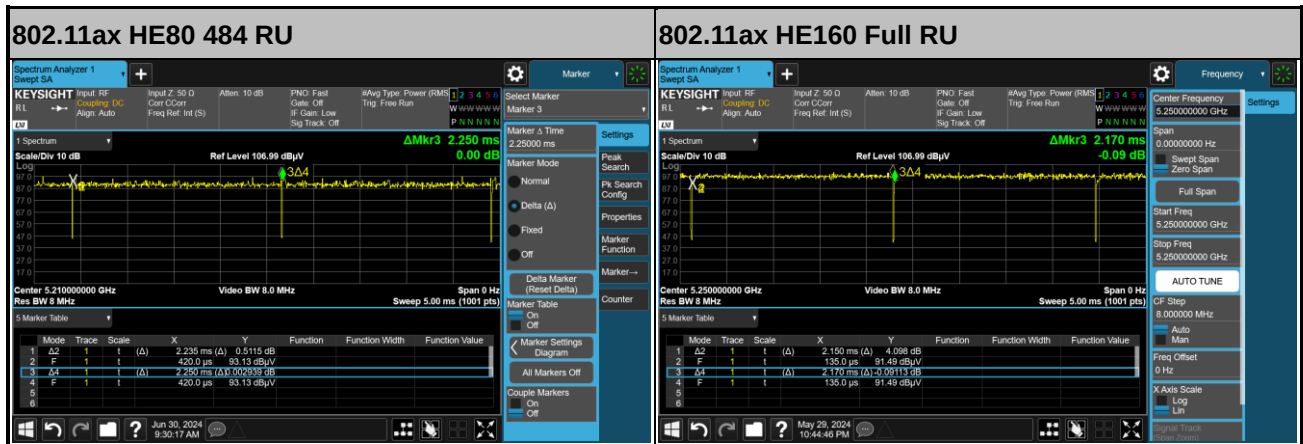
## Appendix E. Duty Cycle Plots

| Antenna | Band                   | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---------|------------------------|---------------|-------|----------|-------------|
| 1+2     | 802.11a                | 99.05         | -     | -        | 10Hz        |
| 1+2     | 802.11ax HE20 Full RU  | 100.00        | -     | -        | 10Hz        |
| 1+2     | 802.11ax HE20 106 RU   | 99.67         | -     | -        | 10Hz        |
| 1+2     | 802.11ax HE40 Full RU  | 99.51         | -     | -        | 10Hz        |
| 1+2     | 802.11ax HE40 242 RU   | 99.47         | -     | -        | 10Hz        |
| 1+2     | 802.11ax HE80 Full RU  | 99.33         | -     | -        | 10Hz        |
| 1+2     | 802.11ax HE80 484 RU   | 99.33         | -     | -        | 10Hz        |
| 1+2     | 802.11ax HE160 Full RU | 99.08         | -     | -        | 10Hz        |
| 1+2     | 802.11ax HE160 996 RU  | 97.93         | 711   | 1.41     | 1.5K        |



MIMO &lt;Ant. 1+2&gt;







## Appendix G. Spot Check Evaluation on KC50E22

Conducted power test and radiated spurious emission test configurations were selected from the worst cases identified in the reference model and tested to demonstrate the test data from reference model remains representative for the variant model.

The deviation between the spot check and the referenced values is within 3dB, therefore data referencing is justified according to the guidance in the ECR inquiry

| Mode         | Test Item                                          | UZ7KC50A22<br>Reference<br>Worst mode<br>Test Result | UZ7KC50E22<br>Variant<br>Check Test<br>Result | Deviation | Limit<br>(dB)                         |
|--------------|----------------------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------|---------------------------------------|
| Bluetooth    | Number of Channels                                 | 79                                                   | 79                                            | 0         | Within the authorized block           |
|              | Hopping Channel Separation                         | 1.003                                                | 1.007                                         | 0.004     | Within the authorized block           |
|              | Dwell Time of Each Channel                         | 0.31                                                 | 0.31                                          | 0         | Within the authorized block           |
|              | 20dB Bandwidth                                     | 0.893                                                | 0.891                                         | 0.002     | Within the authorized frequency block |
|              | 99% Bandwidth                                      | 0.827                                                | 0.827                                         | 0         | Within the authorized frequency block |
|              | Conducted Band Edges                               | -41.22                                               | -41.73                                        | 0.51      | Deviation (ddB) < 3 dB                |
|              | Conducted Spurious Emission                        | -31.93                                               | -32.30                                        | 0.37      | Deviation (ddB) < 3 dB                |
|              | Peak Output Power                                  | 5.40                                                 | 6.20                                          | 0.8       | Deviation (ddB) < 3 dB                |
|              | Radiated Band Edges and Radiated Spurious Emission | 42.16                                                | 39.94                                         | 2.22      | Deviation (ddB) < 3 dB                |
|              | AC Conducted Emission                              | 42.98                                                | 40.01                                         | 2.97      | Deviation (ddB) < 3 dB                |
| Bluetooth-LE | 6dB Bandwidth                                      | 0.674                                                | 0.668                                         | 0.006     | Within the authorized frequency block |
|              | 99% Bandwidth                                      | 1.019                                                | 1.019                                         | 0         | Within the authorized frequency block |
|              | Power Spectral Density                             | -9.55                                                | -10.09                                        | 0.54      | Deviation (ddB) < 3 dB                |
|              | Conducted Band Edges                               | -41.10                                               | -42.38                                        | 1.28      | Deviation (ddB) < 3 dB                |
|              | Conducted Spurious Emission                        | -31.69                                               | -32.23                                        | 0.54      | Deviation (ddB) < 3 dB                |
|              | Power Output Measurement                           | 4.80                                                 | 4.60                                          | 0.2       | Deviation (ddB) < 3 dB                |
|              | Radiated Band Edges and Spurious Emission          | 42.35                                                | 39.81                                         | 2.54      | Deviation (ddB) < 3 dB                |
|              | AC Conducted Emission                              | 42.98                                                | 40.01                                         | 2.97      | Deviation (ddB) < 3 dB                |
| WIFI 2.4G    | 6dB Bandwidth                                      | 8.06                                                 | 8.08                                          | 0.02      | Within the authorized frequency block |
|              | 99% Bandwidth                                      | 13.04                                                | 13.09                                         | 0.05      | Within the authorized frequency block |
|              | Power Spectral Density                             | 3.70                                                 | 3.78                                          | 0.08      | Deviation (ddB) < 3 dB                |
|              | Conducted Band Edges                               | -36.65                                               | -36.24                                        | 0.41      | Deviation (ddB) < 3 dB                |
|              | Conducted Spurious Emission                        | -42.84                                               | -41.89                                        | 0.95      | Deviation (ddB) < 3 dB                |
|              | Output Power                                       | 26.46                                                | 26.36                                         | 0.1       | Deviation (ddB) < 3 dB                |
|              | Radiated Band Edges and Spurious Emission          | 52.24                                                | 51.35                                         | 0.89      | Deviation (ddB) < 3 dB                |
|              | AC Conducted Emission                              | 42.98                                                | 40.01                                         | 2.97      | Deviation (ddB) < 3 dB                |



| Mode    | Test Item                          | UZ7KC50A22<br>Reference<br>Worst mode<br>Test Result | UZ7KC50E22<br>Variant<br>Check Test<br>Result | Deviation | Limit<br>(dB)                         |
|---------|------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------|---------------------------------------|
| WIFI 5G | 26dB Bandwidth                     | 165.98                                               | 165.94                                        | 0.04      | Within the authorized frequency block |
|         | 99% Bandwidth                      | 156.32                                               | 156.56                                        | 0.24      | Within the authorized frequency block |
|         | Power Spectral Density             | 10.52                                                | 10.38                                         | 0.14      | Deviation (ddB) < 3 dB                |
|         | Maximum Conducted Output Power     | 23.58                                                | 23.48                                         | 0.1       | Deviation (ddB) < 3 dB                |
|         | Unwanted Emissions                 | 66.96                                                | 64.84                                         | 2.12      | Deviation (ddB) < 3 dB                |
|         | AC Conducted Emission              | 41.81                                                | 40.50                                         | 1.31      | Deviation (ddB) < 3 dB                |
| WIFI 6G | 26dB Emission Bandwidth            | 165.84                                               | 166.56                                        | 0.72      | Within the authorized frequency block |
|         | 99% Occupied Bandwidth             | 156.80                                               | 157.76                                        | 0.96      | Within the authorized frequency block |
|         | Contention Based Protocol          | -66.35                                               | -68.65                                        | 2.3       | Within the authorized block           |
|         | Fundamental Maximum EIRP           | 26.54                                                | 25.96                                         | 0.58      | Deviation (ddB) < 3 dB                |
|         | Fundamental Power Spectral Density | 16.81                                                | 16.71                                         | 0.1       | Deviation (ddB) < 3 dB                |
|         | In-Band Emissions (Channel Mask)   | -42.43                                               | -41.04                                        | 1.39      | Deviation (ddB) < 3 dB                |
|         | Unwanted Emissions                 | 67.14                                                | 66.93                                         | 0.21      | Deviation (ddB) < 3 dB                |
|         | AC Conducted Emission              | 41.15                                                | 40.16                                         | 0.99      | Deviation (ddB) < 3 dB                |



## List of Measuring Equipment

| Instrument                             | Brand Name         | Model No.                           | Serial No.                         | Characteristics                  | Calibration Date | Test Date                       | Due Date      | Remark                   |
|----------------------------------------|--------------------|-------------------------------------|------------------------------------|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna                           | Rohde & Schwarz    | HFH2-Z2                             | 100488                             | 9kHz~30MHz                       | Sep. 12, 2023    | Aug. 02, 2024~<br>Aug. 04, 2024 | Sep. 11, 2024 | Radiation<br>(03CH22-HY) |
| Bilog Antenna<br>with 6dB              | TESEQ &<br>WOKEN   | CBL 6111D &<br>00802N1D-06          | 63304 & 002                        | 30MHz~1GHz                       | Oct. 15, 2023    | Aug. 02, 2024~<br>Aug. 04, 2024 | Oct. 14, 2024 | Radiation<br>(03CH22-HY) |
| Amplifier                              | SONOMA             | 310N                                | 421581                             | N/A                              | Jul. 14, 2024    | Aug. 02, 2024~<br>Aug. 04, 2024 | Jul. 13, 2025 | Radiation<br>(03CH22-HY) |
| Double Ridged<br>Guide Horn<br>Antenna | RFSPIN             | DRH18-E                             | LE2C04A18E<br>N                    | 1GHz~18GHz                       | Jul. 11, 2024    | Aug. 02, 2024~<br>Aug. 04, 2024 | Jul. 10, 2025 | Radiation<br>(03CH22-HY) |
| SHF-EHF Horn<br>Antenna                | SCHWARZBE<br>CK    | BBHA 9170                           | 1224                               | 18GHz~40GHz                      | Jun. 24, 2024    | Aug. 02, 2024~<br>Aug. 04, 2024 | Jun. 23, 2025 | Radiation<br>(03CH22-HY) |
| Amplifier                              | EMEC               | EM01G18GA                           | 060877                             | N/A                              | Sep. 28, 2023    | Aug. 02, 2024~<br>Aug. 04, 2024 | Sep. 27, 2024 | Radiation<br>(03CH22-HY) |
| Preamplifier                           | EMEC               | EM18G40G                            | 060872                             | 18-40GHz                         | Sep. 06, 2023    | Aug. 02, 2024~<br>Aug. 04, 2024 | Sep. 05, 2024 | Radiation<br>(03CH22-HY) |
| Signal<br>Analyzer                     | Keysight           | N9010B                              | MY62170278                         | 10Hz~44GHz                       | Aug. 31, 2023    | Aug. 02, 2024~<br>Aug. 04, 2024 | Aug. 30, 2024 | Radiation<br>(03CH22-HY) |
| EMI Test<br>Receiver                   | Keysight           | N9038B                              | MY62210111                         | 20Hz~8.4GHz                      | Aug. 23, 2023    | Aug. 02, 2024~<br>Aug. 04, 2024 | Aug. 22, 2024 | Radiation<br>(03CH22-HY) |
| Hygrometer                             | TECPEL             | DTM-303A                            | TP211469                           | N/A                              | Jan. 03, 2024    | Aug. 02, 2024~<br>Aug. 04, 2024 | Jan. 02, 2025 | Radiation<br>(03CH22-HY) |
| Controller                             | EMEC               | EM1000                              | N/A                                | Control Turn<br>table & Ant Mast | N/A              | Aug. 02, 2024~<br>Aug. 04, 2024 | N/A           | Radiation<br>(03CH22-HY) |
| Antenna Mast                           | ChainTek           | MBS-520-1                           | N/A                                | 1m~4m                            | N/A              | Aug. 02, 2024~<br>Aug. 04, 2024 | N/A           | Radiation<br>(03CH22-HY) |
| Turn Table                             | ChainTek           | T-200-S-1                           | N/A                                | 0~360 Degree                     | N/A              | Aug. 02, 2024~<br>Aug. 04, 2024 | N/A           | Radiation<br>(03CH22-HY) |
| Software                               | Audix              | E3<br>6.09824_2019<br>122           | RK-002347                          | N/A                              | N/A              | Aug. 02, 2024~<br>Aug. 04, 2024 | N/A           | Radiation<br>(03CH22-HY) |
| RF Cable                               | HUBER +<br>SUHNER  | SUCOFLEX<br>102                     | 803951/2                           | 9kHz~30MHz                       | Mar. 06, 2024    | Aug. 02, 2024~<br>Aug. 04, 2024 | Mar. 05, 2025 | Radiation<br>(03CH22-HY) |
| RF Cable                               | HUBER +<br>SUHNER  | SUCOFLEX<br>102                     | 804390/2,804<br>611/2,804615/<br>2 | N/A                              | Oct. 24, 2023    | Aug. 02, 2024~<br>Aug. 04, 2024 | Oct. 23, 2024 | Radiation<br>(03CH22-HY) |
| Hygrometer                             | TECPEL             | DTM-303A                            | TP201996                           | N/A                              | Nov. 07, 2023    | Jul. 23, 2024~<br>Jul. 27, 2024 | Nov. 06, 2024 | Conducted<br>(TH05-HY)   |
| Power Sensor                           | DARE               | RPR3006W                            | 15I00041SNO<br>10 (NO:248)         | 10MHz~6GHz                       | Jan. 10, 2024    | Jul. 23, 2024~<br>Jul. 27, 2024 | Jan. 09, 2025 | Conducted<br>(TH05-HY)   |
| Switch Control<br>Mainframe            | Burgeon            | ETF-058                             | EC1300485<br>(BOX4)                | N/A                              | Apr. 08, 2024    | Jul. 23, 2024~<br>Jul. 27, 2024 | Apr. 07, 2025 | Conducted<br>(TH05-HY)   |
| Signal<br>Analyzer                     | Rohde &<br>Schwarz | FSV40                               | 101564                             | 10Hz ~ 40GHz                     | Sep. 12, 2023    | Jul. 23, 2024~<br>Jul. 27, 2024 | Sep. 11, 2024 | Conducted<br>(TH05-HY)   |
| Software                               | Sporton            | BTWIFI_Final_<br>version_24041<br>1 | N/A                                | Conducted<br>Other Test Item     | N/A              | Jul. 23, 2024~<br>Jul. 27, 2024 | N/A           | Conducted<br>(TH05-HY)   |



| Instrument          | Brand Name      | Model No.    | Serial No.   | Characteristics | Calibration Date | Test Date     | Due Date      | Remark               |
|---------------------|-----------------|--------------|--------------|-----------------|------------------|---------------|---------------|----------------------|
| AC Power Source     | ACPOWER         | AFC-11003G   | F317040033   | N/A             | N/A              | Jul. 16, 2024 | N/A           | Conduction (CO07-HY) |
| Software            | Rohde & Schwarz | EMC32 V10.30 | N/A          | N/A             | N/A              | Jul. 16, 2024 | N/A           | Conduction (CO07-HY) |
| Pulse Limiter       | SCHWARZBECK     | VTSD 9561-FN | 9561-FN00373 | 9kHz-200MHz     | Oct. 20, 2023    | Jul. 16, 2024 | Oct. 19, 2024 | Conduction (CO07-HY) |
| RF Cable            | HUBER + SUHNER  | RG 214/U     | 1358175      | 9kHz~30MHz      | Mar. 14, 2024    | Jul. 16, 2024 | Mar. 13, 2025 | Conduction (CO07-HY) |
| Two-Line V-Network  | TESEQ           | NNB 51       | 45051        | N/A             | Mar. 10, 2024    | Jul. 16, 2024 | Mar. 09, 2025 | Conduction (CO07-HY) |
| Four-Line V-Network | TESEQ           | NNB 52       | 36122        | N/A             | Mar. 07, 2024    | Jul. 16, 2024 | Mar. 06, 2025 | Conduction (CO07-HY) |
| EMI Test Receiver   | Rohde & Schwarz | ESR3         | 102317       | 9kHz~3.6GHz     | Sep. 20, 2023    | Jul. 16, 2024 | Sep. 19, 2024 | Conduction (CO07-HY) |

————THE END————