



# FCC RADIO TEST REPORT

**FCC ID** : G95601TX  
**Equipment** : DOCSIS 4.0 Residential Gateway  
**Brand Name** : Vantiva  
**Model Name** : CGM601TCOM, CGM601TCOX  
**Applicant** : Vantiva USA LLC  
4855 Peachtree Industrial Blvd. Suite 200  
Norcross, Georgia 30092  
**Manufacturer** : Vantiva  
4855 Peachtree Industrial Blvd, Suite 200  
Norcross GA 30092  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Nov. 01, 2024 and testing was performed from Nov. 27, 2024 to Jan. 16, 2025. 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***

*No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)*



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## History of this test report

| Report No. | Version | Description             | Issue Date    |
|------------|---------|-------------------------|---------------|
| FR4O1125E  | 01      | Initial issue of report | Jan. 23, 2025 |
|            |         |                         |               |
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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               | -      |
| 3.5           | 15.207          | AC Conducted Emission          | Pass               | -      |
| 3.6           | 15.203          | Antenna Requirement            | Pass               | -      |

**Conformity Assessment Condition:**

1. 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.
2. 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: Wei Chen**

**Report Producer: Ming Chen**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                                                                                                                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>General Specs</b><br>Bluetooth - LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11a/ax/be, and ZigBee. |  |
| <b>Antenna Type</b><br>WLAN: Monopole Antenna                                                                                                   |  |

| Antenna information        |                 |                |
|----------------------------|-----------------|----------------|
| <b>5725 MHz ~ 5850 MHz</b> | Peak Gain (dBi) | <Ant. 5> :4.66 |
|                            |                 | <Ant. 6> :5.19 |
|                            |                 | <Ant. 7> :5.18 |
|                            |                 | <Ant. 8> :4.84 |

| Antenna information for Directional Gain |                 |                                        |
|------------------------------------------|-----------------|----------------------------------------|
| <b>5725 MHz ~ 5850 MHz</b>               | Peak Gain (dBi) | <b>MIMO &lt;Ant. 5+6+7+8&gt;: 5.76</b> |

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

### 1.3 Testing Location

|                           |                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>          | Sporton International Inc. EMC & Wireless Communications Laboratory                                                       |
| <b>Test Site Location</b> | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City 333, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b><br>CO05-HY (TAF Code: 1190)                                                                       |
| <b>Remark</b>             | The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory. |

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

|                           |                                                                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>          | Sporton International Inc. Wensan Laboratory                                                                                                     |
| <b>Test Site Location</b> | 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 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b><br>TH05-HY, 03CH15-HY                                                                                                    |

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

FCC designation No.: TW1190 and TW3786

### 1.4 Applicable Standards

According to the specifications 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 and 802.11be EHT40.
2. The above Frequency and Channel with "<sup>#</sup>" are 802.11ac VHT80 and 802.11ax HE80 and 802.11be EHT80.



## 2.2 Test Mode

Only full RU is supported for 11ax and 11be.

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 power for 802.11ax mode is smaller than 802.11be mode, so all other conducted and radiated test is covered by 802.11be mode.

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



&lt;Nss = 1&gt;

**CDD 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 (Covered by EHT20) | MCS0      |
| 802.11ax HE40 (Covered by EHT40) | MCS0      |
| 802.11ax HE80 (Covered by EHT80) | MCS0      |
| 802.11be EHT20                   | MCS0      |
| 802.11be EHT40                   | MCS0      |
| 802.11be EHT80                   | MCS0      |

**TXBF Mode**

| Modulation                       | Data Rate |
|----------------------------------|-----------|
| 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 (Covered by EHT20) | MCS0      |
| 802.11ax HE40 (Covered by EHT40) | MCS0      |
| 802.11ax HE80 (Covered by EHT80) | MCS0      |
| 802.11be EHT20                   | MCS0      |
| 802.11be EHT40                   | MCS0      |
| 802.11be EHT80                   | MCS0      |

&lt;Nss = 2&gt;

**CDD 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 (Covered by EHT20) | MCS0      |
| 802.11ax HE40 (Covered by EHT40) | MCS0      |
| 802.11ax HE80 (Covered by EHT80) | MCS0      |
| 802.11be EHT20                   | MCS0      |
| 802.11be EHT40                   | MCS0      |
| 802.11be EHT80                   | MCS0      |

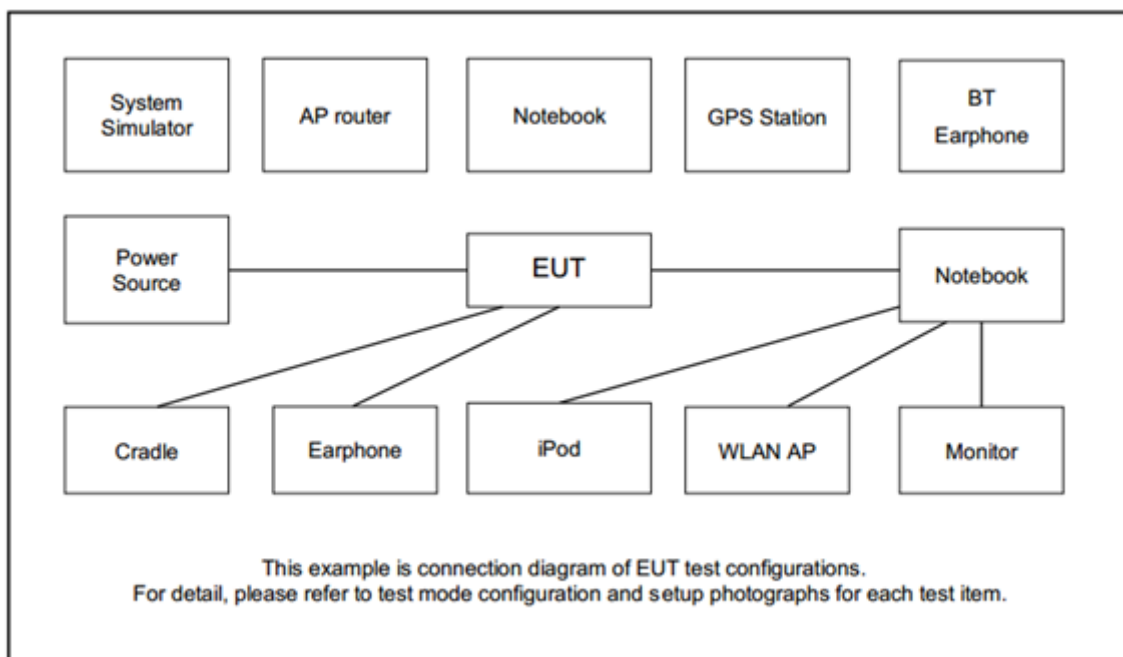
**TXBF Mode**

| Modulation                       | Data Rate |
|----------------------------------|-----------|
| 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 (Covered by EHT20) | MCS0      |
| 802.11ax HE40 (Covered by EHT40) | MCS0      |
| 802.11ax HE80 (Covered by EHT80) | MCS0      |
| 802.11be EHT20                   | MCS0      |
| 802.11be EHT40                   | MCS0      |
| 802.11be EHT80                   | MCS0      |

**Remark:** The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

| Test Cases                                                                                                                                                                                                                                                     |                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| AC<br>Conducted<br>Emission                                                                                                                                                                                                                                    | Mode 1 WLAN (5GHz) Link + LAN Link + AC Adapter |
| <b>Remark:</b> <ol style="list-style-type: none"> <li>The detailed test modes are shown in Appendix C.</li> <li>For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.</li> </ol> |                                                 |

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model Name    | FCC ID  | Data Cable | Power Cord                                                 |
|------|-----------|------------|---------------|---------|------------|------------------------------------------------------------|
| 1.   | Notebook  | DELL       | Latitude 3420 | FCC DoC | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |

## 2.5 EUT Operation Test Setup

The RF test items, utility “Access Manual Tool3.3.0.9” 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.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “Access Manual Tool3.3.0.9” software tool was used to enable the EUT to transmit signals continuously.

## 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.

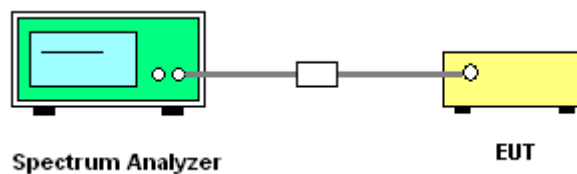
##### 3.1.2 Measuring Instruments

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**

#### **<CDD Modes>**

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

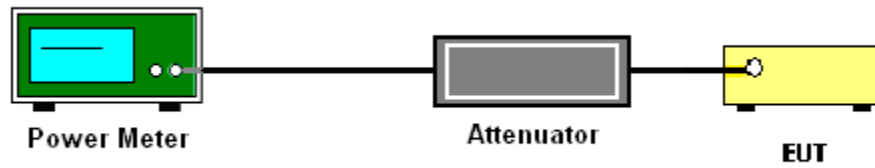
#### **<TXBF Modes>**

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

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.

##### **<CDD Modes and TxBF Modes>**

##### **# Method SA-2 #**

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

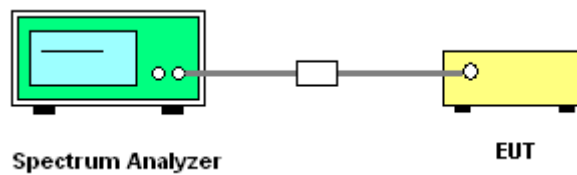
- Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 300kHz.
  - Set VBW  $\geq 1$  MHz.
  - Add  $10 \log(500 \text{ kHz/RBW})$  to the measured result, whereas RBW ( $< 500 \text{ kHz}$ ) is the reduced resolution bandwidth of the spectrum 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

#### 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.

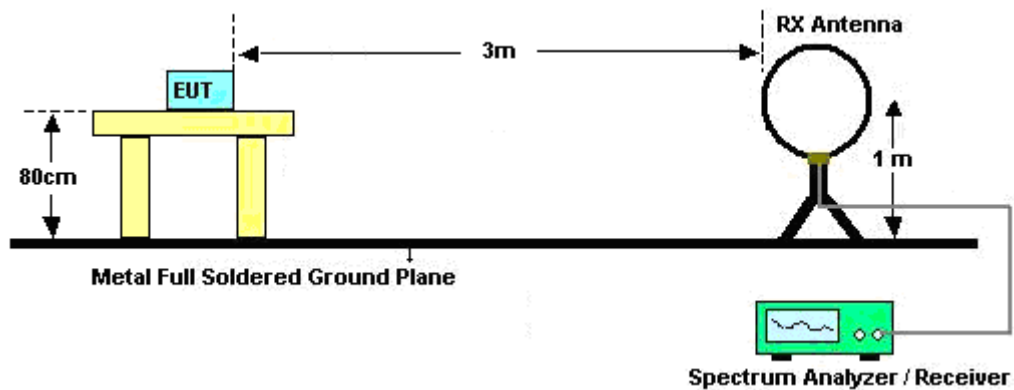
### 3.4.3 Test Procedures

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.

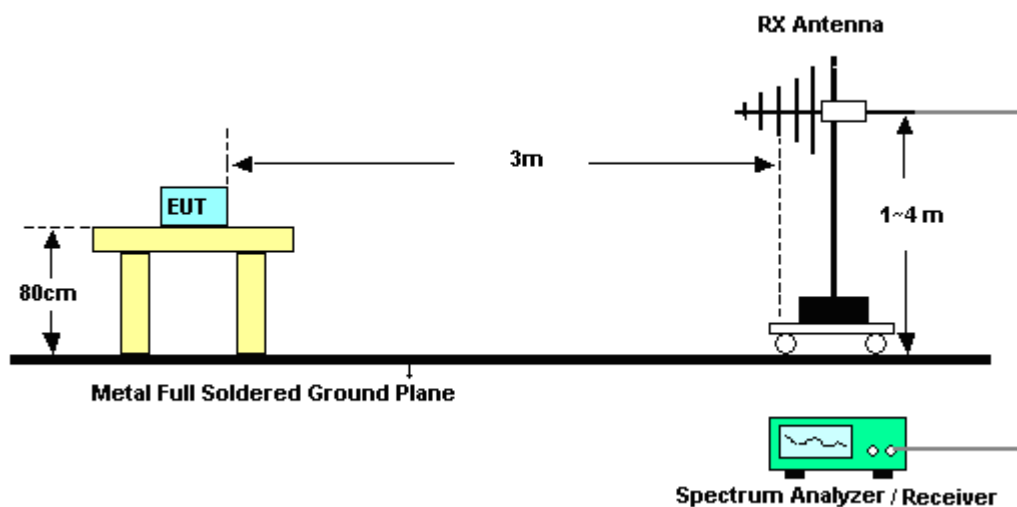
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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

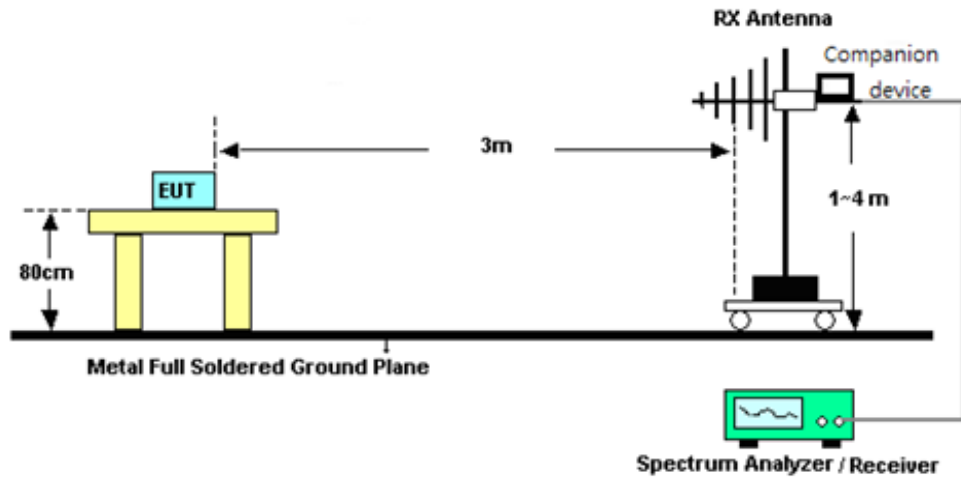
**For radiated emissions below 30MHz**



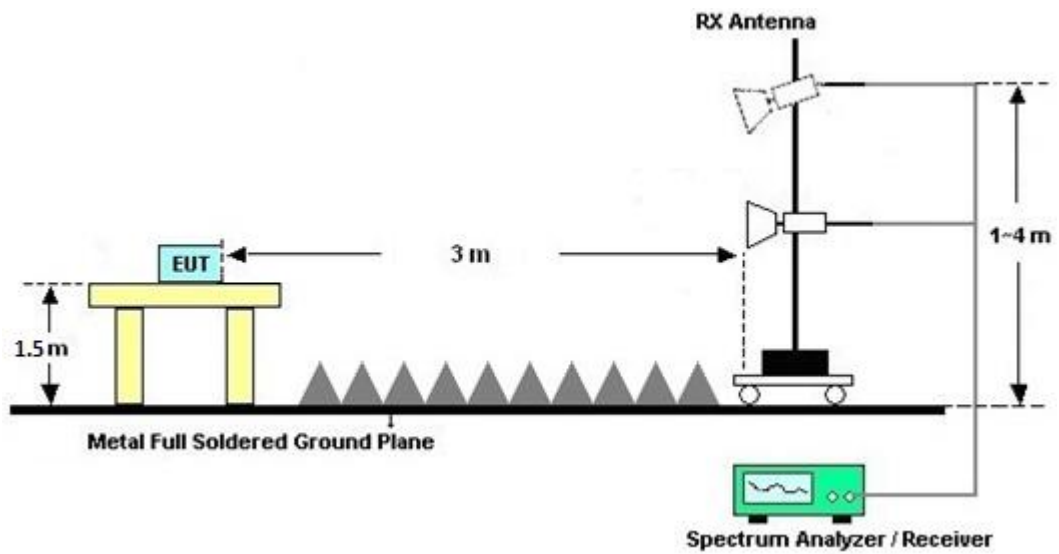
**For radiated emissions from 30MHz to 1GHz**

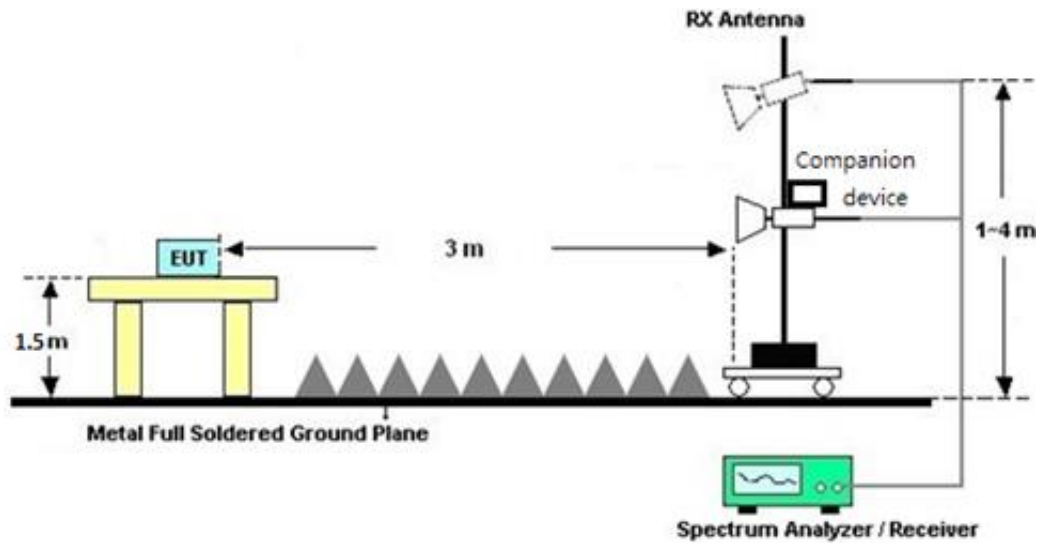


### <TXBF Modes>

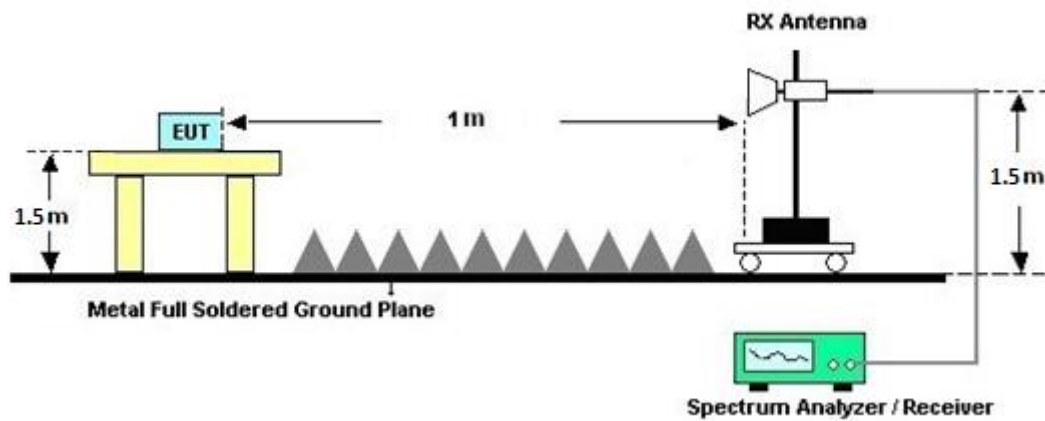


For radiated test from 1GHz to 18GHz

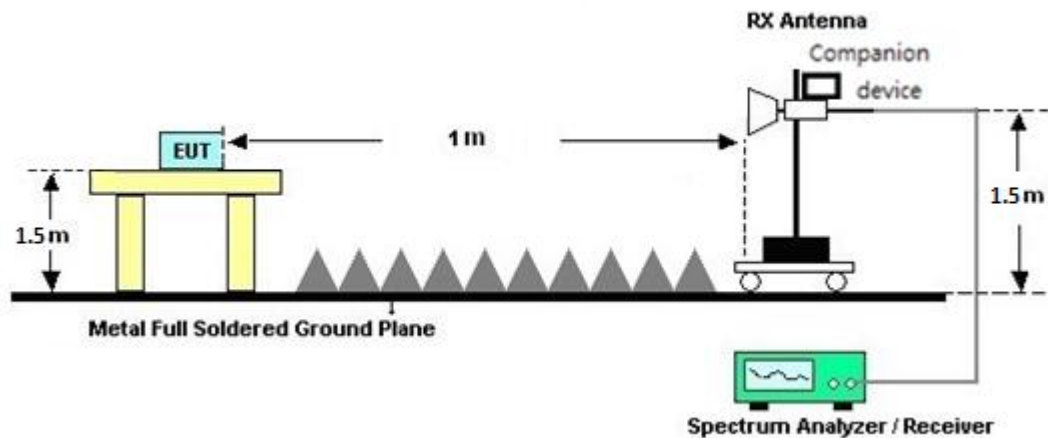


**<TXBF Modes>**


For radiated test above 18GHz



<TXBF Modes>



### 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.

### 3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C and.

### 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.

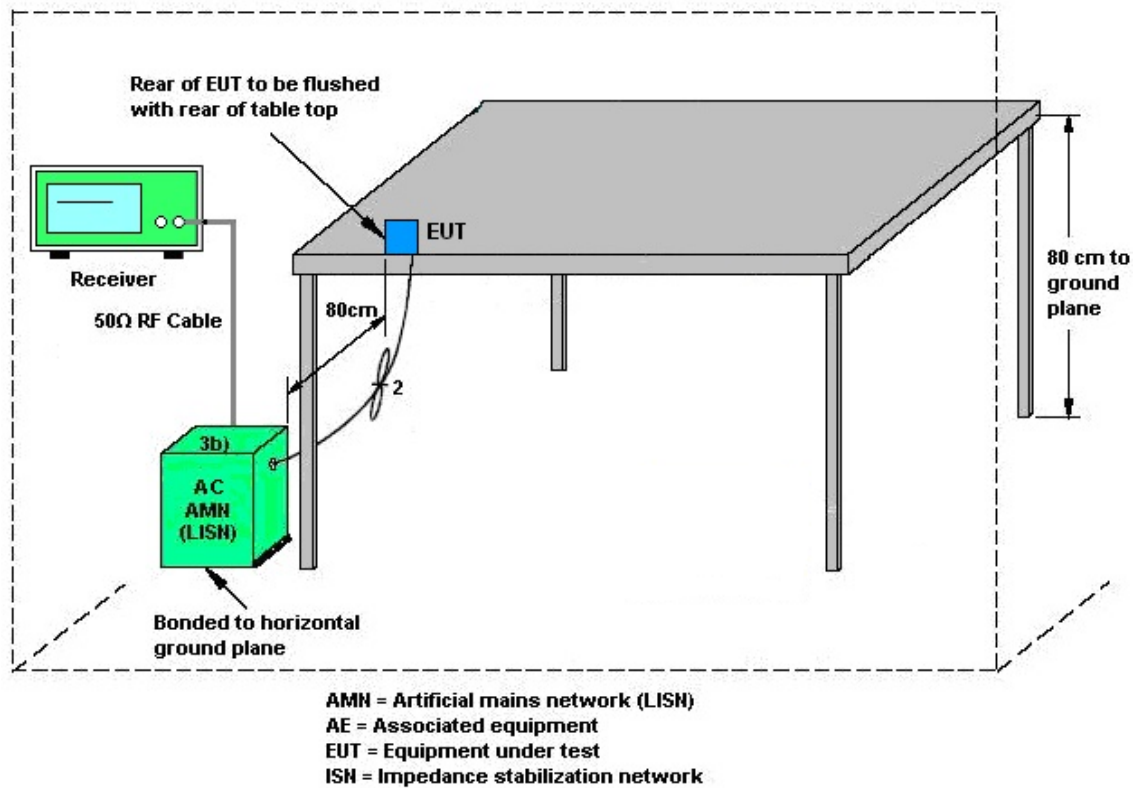
#### 3.5.2 Measuring Instruments

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**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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

Antenna permanently attached.



## 4 List of Measuring Equipment

| Instrument           | Brand Name      | Model No.                     | Serial No.                      | Characteristics          | Calibration Date | Test Date                   | Due Date      | Remark                |
|----------------------|-----------------|-------------------------------|---------------------------------|--------------------------|------------------|-----------------------------|---------------|-----------------------|
| AC Power Source      | ChainTek        | APC-1000W                     | N/A                             | N/A                      | N/A              | Nov. 27, 2024               | N/A           | Conduction (CO05-HY)  |
| EMI Test Receiver    | Rohde & Schwarz | ESR3                          | 102388                          | 9kHz~3.6GHz              | Dec. 06, 2023    | Nov. 27, 2024               | Dec. 05, 2024 | Conduction (CO05-HY)  |
| Hygrometer           | Testo           | 608-H1                        | 34913912                        | N/A                      | Oct. 14, 2024    | Nov. 27, 2024               | Oct. 13, 2025 | Conduction (CO05-HY)  |
| LISN                 | Rohde & Schwarz | ENV216                        | 100081                          | 9kHz~30MHz               | Nov. 14, 2024    | Nov. 27, 2024               | Nov. 13, 2025 | Conduction (CO05-HY)  |
| Software             | Rohde & Schwarz | EMC32                         | N/A                             | N/A                      | N/A              | Nov. 27, 2024               | N/A           | Conduction (CO05-HY)  |
| Pulse Limiter        | SCHWARZBECK     | VTSD 9561-F N                 | 00691                           | N/A                      | Jul. 30, 2024    | Nov. 27, 2024               | Jul. 29, 2025 | Conduction (CO05-HY)  |
| LISN Cable           | MVE             | RG-400                        | MQT24082501                     | N/A                      | Oct. 15, 2024    | Nov. 27, 2024               | Oct. 14, 2025 | Conduction (CO05-HY)  |
| Loop Antenna         | Rohde & Schwarz | HFH2-Z2                       | 100488                          | 9 kHz~30 MHz             | Aug. 29, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Aug. 28, 2025 | Radiation (03CH15-HY) |
| Bilog Antenna        | TESEQ           | CBL 6111D & 00800N1D01N-06    | 41912 & 05                      | 30MHz~1GHz               | Feb. 04, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Feb. 03, 2025 | Radiation (03CH15-HY) |
| Horn Antenna         | SCHWARZBECK     | BBHA 9120 D                   | 9120D-02294                     | 1GHz~18GHz               | Jun. 20, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Jun. 19, 2025 | Radiation (03CH15-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK     | BBHA 9170                     | 1220                            | 18GHz~40GHz              | Oct. 25, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Oct. 24, 2025 | Radiation (03CH15-HY) |
| Amplifier            | SONOMA          | 310N                          | 363440                          | 9kHz~1GHz                | Dec. 25, 2023    | Dec. 04, 2024~Dec. 23, 2024 | Dec. 24, 2024 | Radiation (03CH15-HY) |
| Amplifier            | SONOMA          | 310N                          | 363440                          | 9kHz~1GHz                | Dec. 24, 2024    | Dec. 24, 2024~Jan. 14, 2025 | Dec. 23, 2025 | Radiation (03CH15-HY) |
| Preamplifier         | EMEC            | EM01G18G                      | 060837                          | 1GHz~18GHz               | Feb. 15, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Feb. 14, 2025 | Radiation (03CH15-HY) |
| Preamplifier         | EM Electronics  | EM01G18G                      | 060802                          | 1GHz~18GHz               | Feb. 29, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Feb. 28, 2025 | Radiation (03CH15-HY) |
| Preamplifier         | EMEC            | EM18G40G                      | 060801                          | 18GHz~40GHz              | May 27, 2024     | Dec. 04, 2024~Jan. 14, 2025 | May 26, 2025  | Radiation (03CH15-HY) |
| Spectrum Analyzer    | Keysight        | N9010B                        | MY60241058                      | 10Hz~44GHz               | Jul. 11, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Jul. 10, 2025 | Radiation (03CH15-HY) |
| EMI Test Receiver    | Keysight        | N9038A(MXE)                   | MY54130085                      | 20MHz~8.4GHz             | Oct. 16, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Oct. 15, 2025 | Radiation (03CH15-HY) |
| Antenna Mast         | ChainTek        | MBS-520-1                     | N/A                             | 1m~4m                    | N/A              | Dec. 04, 2024~Jan. 14, 2025 | N/A           | Radiation (03CH15-HY) |
| Turn Table           | ChainTek        | T-200-S-1                     | N/A                             | 0~360 Degree             | N/A              | Dec. 04, 2024~Jan. 14, 2025 | N/A           | Radiation (03CH15-HY) |
| Software             | Audix           | E3_V9_230621                  | RK-002394                       | N/A                      | N/A              | Dec. 04, 2024~Jan. 14, 2025 | N/A           | Radiation (03CH15-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 104, 102E            | MY582185/4, 519228/2, 803 950/2 | N/A                      | Jun. 11, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Jun. 10, 2025 | Radiation (03CH15-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                  | 804011/2, 804 012/2             | 18-40G                   | Jan. 02, 2024    | Dec. 04, 2024~Dec. 30, 2024 | Jan. 01, 2025 | Radiation (03CH15-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                  | 804011/2, 804 012/2             | 18-40G                   | Dec. 31, 2024    | Dec. 31, 2024~Jan. 14, 2025 | Dec. 30, 2025 | Radiation (03CH15-HY) |
| Filter               | Wainwright      | WLJ4-1000-15 30-6000-40ST     | SN4                             | 1.53GHz Low Pass Filter  | Jun. 05, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Jun. 04, 2025 | Radiation (03CH15-HY) |
| Filter               | Wainwright      | HKK12-2700-3 000-18000-60 ST  | SN4                             | 3GHz High Pass Filter    | Jun. 05, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Jun. 04, 2025 | Radiation (03CH15-HY) |
| Filter               | Wainwright      | WHKX8-5872. 5-6750-18000-40ST | SN6                             | 6.75GHz High Pass Filter | Jun. 05, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Jun. 04, 2025 | Radiation (03CH15-HY) |
| Hygrometer           | TECPEL          | DTM-302                       | SN4                             | N/A                      | Aug. 29, 2024    | Dec. 04, 2024~Jan. 14, 2025 | Aug. 28, 2025 | Radiation (03CH15-HY) |



| Instrument               | Brand Name      | Model No.                          | Serial No.                       | Characteristics              | Calibration Date | Test Date                       | Due Date      | Remark                 |
|--------------------------|-----------------|------------------------------------|----------------------------------|------------------------------|------------------|---------------------------------|---------------|------------------------|
| Hygrometer               | TECPEL          | DTM-303A                           | TP201996                         | N/A                          | Nov. 01, 2024    | Nov. 11, 2024~<br>Jan. 16, 2025 | Oct. 30, 2025 | Conducted<br>(TH05-HY) |
| Power Sensor             | DARE            | RPR3006W                           | 17I00015SNO<br>36 (NO:35<br>144) | 10MHz~6GHz                   | Aug. 20, 2024    | Nov. 11, 2024~<br>Jan. 16, 2025 | Aug. 19, 2025 | Conducted<br>(TH05-HY) |
| Signal Analyzer          | Rohde & Schwarz | FSV3044                            | 101466                           | 10HZ~44GHZ                   | Jan. 24, 2024    | Nov. 11, 2024~<br>Jan. 16, 2025 | Jan. 23, 2025 | Conducted<br>(TH05-HY) |
| Switch Control Mainframe | Burgeon         | ETF-058                            | EC1300484<br>(BOX3)              | N/A                          | May 20, 2024     | Nov. 11, 2024~<br>Jan. 16, 2025 | May 19, 2025  | Conducted<br>(TH05-HY) |
| Software                 | Sporton         | BTWIFI_Final<br>version_24121<br>1 | N/A                              | Conducted<br>Other Test Item | N/A              | Nov. 11, 2024~<br>Jan. 16, 2025 | 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% ( $U = 2Uc(y)$ ) | 3.7 dB |
|-------------------------------------------------------------------------|--------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.30 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.40 dB |
|-------------------------------------------------------------------------|---------|

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

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

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

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

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

|               |                          |                   |       |    |
|---------------|--------------------------|-------------------|-------|----|
| Test Engineer | Eason Huang and Ju Chang | Temperature       | 21~25 | °C |
| Test Date     | 2024/11/11-2025/1/16     | Relative Humidity | 51~54 | %  |

<CDD Mode>

<Nss = 1>

Report Number :

FR401125E

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                      |        |        |        |                      |        |        |        |                     |        |        |        |                       |            |
|-----------------------------------------|-----------|-----|-----|-------------|----------------------|--------|--------|--------|----------------------|--------|--------|--------|---------------------|--------|--------|--------|-----------------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | 26dB Bandwidth (MHz) |        |        |        | 6 dB Bandwidth (MHz) |        |        |        | 99% Bandwidth (MHz) |        |        |        | 6 dB Min. Limit (MHz) | Pass /Fail |
|                                         |           |     |     |             | Ant 5                | Ant 6  | Ant 7  | Ant 8  | Ant 5                | Ant 6  | Ant 7  | Ant 8  | Ant 5               | Ant 6  | Ant 7  | Ant 8  |                       |            |
| 11a                                     | 6Mbps     | 4   | 149 | 5745        | 23.760               | 22.160 | 22.088 | 23.360 | 16.345               | 16.360 | 16.380 | 16.350 | 17.702              | 17.371 | 17.287 | 17.306 | 0.5                   | Pass       |
| 11a                                     | 6Mbps     | 4   | 157 | 5785        | 22.424               | 22.112 | 21.968 | 24.184 | 16.370               | 16.355 | 16.365 | 16.350 | 17.532              | 17.321 | 17.222 | 17.475 | 0.5                   | Pass       |
| 11a                                     | 6Mbps     | 4   | 165 | 5825        | 23.040               | 24.656 | 22.088 | 25.224 | 16.350               | 16.360 | 16.345 | 16.360 | 17.535              | 17.473 | 17.258 | 17.550 | 0.5                   | Pass       |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 23.328               | 22.232 | 23.296 | 25.040 | 17.580               | 17.605 | 17.590 | 17.605 | 18.376              | 18.169 | 18.237 | 18.318 | 0.5                   | Pass       |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 27.608               | 22.560 | 22.216 | 27.256 | 17.585               | 17.610 | 17.590 | 17.605 | 18.516              | 18.221 | 18.250 | 18.363 | 0.5                   | Pass       |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 26.736               | 23.872 | 23.624 | 28.976 | 17.580               | 17.600 | 17.580 | 17.600 | 18.484              | 18.228 | 18.277 | 18.392 | 0.5                   | Pass       |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 59.920               | 52.832 | 64.000 | 41.648 | 36.351               | 36.387 | 36.369 | 36.369 | 37.090              | 36.982 | 37.113 | 36.911 | 0.5                   | Pass       |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 58.448               | 52.576 | 53.568 | 51.360 | 36.333               | 36.369 | 36.351 | 36.360 | 37.109              | 36.952 | 36.971 | 37.028 | 0.5                   | Pass       |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 86.176               | 86.592 | 83.392 | 85.216 | 75.488               | 76.320 | 75.744 | 75.712 | 75.907              | 75.878 | 75.908 | 75.941 | 0.5                   | Pass       |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                               |       |       |       |       |                                 |                   |           |
|-----------------------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|-------|-------|---------------------------------|-------------------|-----------|
| Mod.                                    | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi)          | Pass/Fail |
|                                         |           |     |     |             | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8               | Ant 5 + 6 + 7 + 8 |           |
| 11a                                     | 6Mbps     | 4   | 149 | 5745        | 23.50                         | 24.80 | 23.4  | 24.00 | 29.98 | 30.00                           | 5.19              | Pass      |
| 11a                                     | 6Mbps     | 4   | 157 | 5785        | 23.60                         | 24.30 | 23.3  | 23.80 | 29.79 | 30.00                           | 5.19              | Pass      |
| 11a                                     | 6Mbps     | 4   | 165 | 5825        | 23.60                         | 24.50 | 23.4  | 23.80 | 29.87 | 30.00                           | 5.19              | Pass      |
| HT20                                    | MCS0      | 4   | 149 | 5745        | 23.10                         | 24.10 | 22.9  | 23.60 | 29.47 | 30.00                           | 5.19              | Pass      |
| HT20                                    | MCS0      | 4   | 157 | 5785        | 23.40                         | 23.70 | 22.9  | 23.10 | 29.31 | 30.00                           | 5.19              | Pass      |
| HT20                                    | MCS0      | 4   | 165 | 5825        | 23.00                         | 24.00 | 22.6  | 23.40 | 29.30 | 30.00                           | 5.19              | Pass      |
| HT40                                    | MCS0      | 4   | 151 | 5755        | 23.40                         | 24.10 | 22.3  | 23.60 | 29.42 | 30.00                           | 5.19              | Pass      |
| HT40                                    | MCS0      | 4   | 159 | 5795        | 23.60                         | 24.10 | 22.3  | 23.30 | 29.39 | 30.00                           | 5.19              | Pass      |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 23.20                         | 24.20 | 23    | 23.70 | 29.57 | 30.00                           | 5.19              | Pass      |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 23.50                         | 23.80 | 23    | 23.20 | 29.41 | 30.00                           | 5.19              | Pass      |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 23.10                         | 24.10 | 22.7  | 23.50 | 29.40 | 30.00                           | 5.19              | Pass      |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 23.50                         | 24.20 | 22.4  | 23.70 | 29.52 | 30.00                           | 5.19              | Pass      |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 23.70                         | 24.20 | 22.4  | 23.40 | 29.49 | 30.00                           | 5.19              | Pass      |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 23.80                         | 24.50 | 22.9  | 23.60 | 29.76 | 30.00                           | 5.19              | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                  |       |       |       |                                    |       |       |       |       |                                |             |            |
|-----------------------------------------|-----------|-----|-----|-------------|------------------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|--------------------------------|-------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor(dBm) |       |       |       | Average Power Density (dBm/500kHz) |       |       |       |       | Average PSD Limit (dBm/500kHz) | DG (dBi)    | Pass /Fail |
|                                         |           |     |     |             | Ant 5            | Ant 6 | Ant 7 | Ant 8 | Ant 5                              | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5+6+7+8                    | Ant 5+6+7+8 |            |
| 11a                                     | 6Mbps     | 4   | 149 | 5745        | 0.23             | 0.23  | 0.23  | 0.23  | 8.41                               | 9.43  | 7.99  | 8.57  | 15.45 | 30.00                          | 5.74        | Pass       |
| 11a                                     | 6Mbps     | 4   | 157 | 5785        | 0.23             | 0.23  | 0.23  | 0.23  | 8.45                               | 8.95  | 7.80  | 8.21  | 14.97 | 30.00                          | 5.74        | Pass       |
| 11a                                     | 6Mbps     | 4   | 165 | 5825        | 0.23             | 0.23  | 0.23  | 0.23  | 8.48                               | 9.36  | 8.15  | 8.65  | 15.38 | 30.00                          | 5.74        | Pass       |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 0.08             | 0.08  | 0.08  | 0.08  | 7.57                               | 8.77  | 7.42  | 8.07  | 14.79 | 30.00                          | 5.74        | Pass       |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 0.08             | 0.08  | 0.08  | 0.08  | 7.82                               | 8.22  | 7.25  | 7.69  | 14.24 | 30.00                          | 5.74        | Pass       |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 0.08             | 0.08  | 0.08  | 0.08  | 7.33                               | 8.32  | 7.05  | 7.65  | 14.34 | 30.00                          | 5.74        | Pass       |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 0.16             | 0.16  | 0.16  | 0.16  | 5.18                               | 6.17  | 4.29  | 5.32  | 12.19 | 30.00                          | 5.74        | Pass       |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 0.16             | 0.16  | 0.16  | 0.16  | 5.39                               | 5.83  | 4.14  | 5.37  | 11.85 | 30.00                          | 5.74        | Pass       |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 0.32             | 0.32  | 0.32  | 0.32  | 2.41                               | 3.20  | 1.69  | 2.19  | 9.22  | 30.00                          | 5.74        | Pass       |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |           |                               |       |       |       |       |                                 |                   |           |
|-----------------------------------------|-----------|-----|-----|-------------|-----------|-------------------------------|-------|-------|-------|-------|---------------------------------|-------------------|-----------|
| Mod.                                    | Data Rate | Ntx | CH. | Freq. (MHz) | RU Config | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi)          | Pass/Fail |
|                                         |           |     |     |             |           | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |                   |           |
| HE20                                    | MCS0      | 4   | 149 | 5745        | Full      | 23.60                         | 24.50 | 23.20 | 24.00 | 29.87 | Ant 5 + 6 + 7 + 8               | Ant 5 + 6 + 7 + 8 | Pass      |
| HE20                                    | MCS0      | 4   | 157 | 5785        | Full      | 23.80                         | 24.10 | 23.10 | 23.80 | 29.74 | 30.00                           | 5.19              | Pass      |
| HE20                                    | MCS0      | 4   | 165 | 5825        | Full      | 23.40                         | 24.50 | 23.20 | 23.80 | 29.77 | 30.00                           | 5.19              | Pass      |
| HE40                                    | MCS0      | 4   | 151 | 5755        | Full      | 23.90                         | 24.50 | 22.80 | 23.90 | 29.84 | 30.00                           | 5.19              | Pass      |
| HE40                                    | MCS0      | 4   | 159 | 5795        | Full      | 23.90                         | 24.60 | 22.70 | 23.80 | 29.82 | 30.00                           | 5.19              | Pass      |
| HE80                                    | MCS0      | 4   | 155 | 5775        | Full      | 23.80                         | 24.50 | 22.90 | 23.60 | 29.76 | 30.00                           | 5.19              | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |           |                      |        |        |        |                      |        |        |        |                     |        |        |        |                       |            |
|-----------------------------------------|-----------|-----|-----|-------------|-----------|----------------------|--------|--------|--------|----------------------|--------|--------|--------|---------------------|--------|--------|--------|-----------------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | RU Config | 26dB Bandwidth (MHz) |        |        |        | 6 dB Bandwidth (MHz) |        |        |        | 99% Bandwidth (MHz) |        |        |        | 6 dB Min. Limit (MHz) | Pass /Fail |
|                                         |           |     |     |             |           | Ant 5                | Ant 6  | Ant 7  | Ant 8  | Ant 5                | Ant 6  | Ant 7  | Ant 8  | Ant 5               | Ant 6  | Ant 7  | Ant 8  |                       |            |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full      | 22.216               | 25.568 | 22.064 | 22.304 | 18.995               | 18.965 | 18.975 | 18.990 | 19.240              | 19.338 | 19.249 | 19.270 | 0.5                   | Pass       |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full      | 25.976               | 23.560 | 22.176 | 22.272 | 18.985               | 18.975 | 18.960 | 18.960 | 19.320              | 19.286 | 19.249 | 19.316 | 0.5                   | Pass       |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full      | 25.760               | 25.800 | 22.016 | 27.528 | 19.000               | 19.010 | 18.980 | 18.930 | 19.285              | 19.262 | 19.251 | 19.337 | 0.5                   | Pass       |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full      | 49.296               | 47.104 | 49.616 | 45.072 | 37.881               | 37.809 | 37.782 | 37.953 | 38.233              | 38.249 | 38.292 | 38.209 | 0.5                   | Pass       |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full      | 46.848               | 46.672 | 48.560 | 48.640 | 37.287               | 37.656 | 37.782 | 37.791 | 38.229              | 38.238 | 38.190 | 38.224 | 0.5                   | Pass       |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full      | 83.744               | 82.496 | 82.560 | 83.840 | 76.144               | 76.624 | 77.440 | 76.496 | 77.269              | 77.313 | 77.228 | 77.369 | 0.5                   | Pass       |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |            |                               |       |       |       |       |                                 |          |           |
|-----------------------------------------|-----------|-----|-----|-------------|------------|-------------------------------|-------|-------|-------|-------|---------------------------------|----------|-----------|
| Mod.                                    | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
|                                         |           |     |     |             |            | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |          |           |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full       | 23.70                         | 24.60 | 23.30 | 24.10 | 29.97 | 30.00                           | 5.19     | Pass      |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full       | 23.90                         | 24.20 | 23.20 | 23.90 | 29.84 | 30.00                           | 5.19     | Pass      |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full       | 23.50                         | 24.60 | 23.30 | 23.90 | 29.87 | 30.00                           | 5.19     | Pass      |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full       | 24.00                         | 24.60 | 22.90 | 24.00 | 29.94 | 30.00                           | 5.19     | Pass      |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full       | 24.00                         | 24.70 | 22.80 | 23.90 | 29.92 | 30.00                           | 5.19     | Pass      |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full       | 23.90                         | 24.60 | 23.00 | 23.70 | 29.86 | 30.00                           | 5.19     | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |            |                  |       |       |       |                                    |       |       |       |       |                                |                   |            |
|-----------------------------------------|-----------|-----|-----|-------------|------------|------------------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|--------------------------------|-------------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | Duty Factor(dBm) |       |       |       | Average Power Density (dBm/500kHz) |       |       |       |       | Average PSD Limit (dBm/500kHz) | DG (dBi)          | Pass /Fail |
|                                         |           |     |     |             |            | Ant 5            | Ant 6 | Ant 7 | Ant 8 | Ant 5                              | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8              | Ant 5 + 6 + 7 + 8 |            |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full       | 0.10             | 0.10  | 0.10  | 0.10  | 7.62                               | 9.01  | 7.44  | 8.37  | 15.03 | 30.00                          | 5.74              | Pass       |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full       | 0.10             | 0.10  | 0.10  | 0.10  | 7.97                               | 8.34  | 7.29  | 7.85  | 14.36 | 30.00                          | 5.74              | Pass       |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full       | 0.10             | 0.10  | 0.10  | 0.10  | 7.41                               | 8.57  | 7.40  | 7.89  | 14.59 | 30.00                          | 5.74              | Pass       |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full       | 0.19             | 0.19  | 0.19  | 0.19  | 5.31                               | 6.22  | 4.49  | 5.48  | 12.24 | 30.00                          | 5.74              | Pass       |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full       | 0.19             | 0.19  | 0.19  | 0.19  | 5.59                               | 6.07  | 4.30  | 5.41  | 12.09 | 30.00                          | 5.74              | Pass       |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full       | 0.35             | 0.35  | 0.35  | 0.35  | 2.57                               | 3.41  | 1.83  | 2.45  | 9.43  | 30.00                          | 5.74              | Pass       |

Note: PSD Sum = Max PSD(Ant. 5, Ant. 6, Ant. 7, Ant. 8) + 10 log (n)

&lt;Nss = 2&gt;

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                               |       |       |       |       |                                 |          |           |
|-----------------------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|-------|-------|---------------------------------|----------|-----------|
| Mod.                                    | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
|                                         |           |     |     |             | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |          |           |
| HT20                                    | MCS0      | 4   | 149 | 5745        | 23.10                         | 24.10 | 22.9  | 23.60 | 29.47 | 30.00                           | 5.19     | Pass      |
| HT20                                    | MCS0      | 4   | 157 | 5785        | 23.40                         | 23.70 | 22.9  | 23.10 | 29.31 | 30.00                           | 5.19     | Pass      |
| HT20                                    | MCS0      | 4   | 165 | 5825        | 23.00                         | 24.00 | 22.6  | 23.40 | 29.30 | 30.00                           | 5.19     | Pass      |
| HT40                                    | MCS0      | 4   | 151 | 5755        | 23.40                         | 24.10 | 22.3  | 23.60 | 29.42 | 30.00                           | 5.19     | Pass      |
| HT40                                    | MCS0      | 4   | 159 | 5795        | 23.60                         | 24.10 | 22.3  | 23.30 | 29.39 | 30.00                           | 5.19     | Pass      |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 23.20                         | 24.20 | 23    | 23.70 | 29.57 | 30.00                           | 5.19     | Pass      |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 23.50                         | 23.80 | 23    | 23.20 | 29.41 | 30.00                           | 5.19     | Pass      |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 23.10                         | 24.10 | 22.7  | 23.50 | 29.40 | 30.00                           | 5.19     | Pass      |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 23.50                         | 24.20 | 22.4  | 23.70 | 29.52 | 30.00                           | 5.19     | Pass      |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 23.70                         | 24.20 | 22.4  | 23.40 | 29.49 | 30.00                           | 5.19     | Pass      |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 23.80                         | 24.50 | 22.9  | 23.60 | 29.76 | 30.00                           | 5.19     | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                  |       |       |       |                                    |       |       |       |       |                                |                   |            |
|-----------------------------------------|-----------|-----|-----|-------------|------------------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|--------------------------------|-------------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor(dBm) |       |       |       | Average Power Density (dBm/500kHz) |       |       |       |       | Average PSD Limit (dBm/500kHz) | DG (dBi)          | Pass /Fail |
|                                         |           |     |     |             | Ant 5            | Ant 6 | Ant 7 | Ant 8 | Ant 5                              | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8              | Ant 5 + 6 + 7 + 8 |            |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 0.08             | 0.08  | 0.08  | 0.08  | 7.57                               | 8.77  | 7.42  | 8.07  | 14.79 | 30.00                          | 5.74              | Pass       |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 0.08             | 0.08  | 0.08  | 0.08  | 7.82                               | 8.22  | 7.25  | 7.69  | 14.24 | 30.00                          | 5.74              | Pass       |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 0.08             | 0.08  | 0.08  | 0.08  | 7.33                               | 8.32  | 7.05  | 7.65  | 14.34 | 30.00                          | 5.74              | Pass       |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 0.16             | 0.16  | 0.16  | 0.16  | 5.18                               | 6.17  | 4.29  | 5.32  | 12.19 | 30.00                          | 5.74              | Pass       |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 0.16             | 0.16  | 0.16  | 0.16  | 5.39                               | 5.83  | 4.14  | 5.37  | 11.85 | 30.00                          | 5.74              | Pass       |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 0.32             | 0.32  | 0.32  | 0.32  | 2.41                               | 3.20  | 1.69  | 2.19  | 9.22  | 30.00                          | 5.74              | Pass       |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |           |                               |       |       |       |       |                                 |          |           |
|-----------------------------------------|-----------|-----|-----|-------------|-----------|-------------------------------|-------|-------|-------|-------|---------------------------------|----------|-----------|
| Mod.                                    | Data Rate | Ntx | CH. | Freq. (MHz) | RU Config | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
|                                         |           |     |     |             |           | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |          |           |
| HE20                                    | MCS0      | 4   | 149 | 5745        | Full      | 23.60                         | 24.50 | 23.20 | 24.00 | 29.87 | 30.00                           | 5.19     | Pass      |
| HE20                                    | MCS0      | 4   | 157 | 5785        | Full      | 23.80                         | 24.10 | 23.10 | 23.80 | 29.74 | 30.00                           | 5.19     | Pass      |
| HE20                                    | MCS0      | 4   | 165 | 5825        | Full      | 23.40                         | 24.50 | 23.20 | 23.80 | 29.77 | 30.00                           | 5.19     | Pass      |
| HE40                                    | MCS0      | 4   | 151 | 5755        | Full      | 23.90                         | 24.50 | 22.80 | 23.90 | 29.84 | 30.00                           | 5.19     | Pass      |
| HE40                                    | MCS0      | 4   | 159 | 5795        | Full      | 23.90                         | 24.60 | 22.70 | 23.80 | 29.82 | 30.00                           | 5.19     | Pass      |
| HE80                                    | MCS0      | 4   | 155 | 5775        | Full      | 23.80                         | 24.50 | 22.90 | 23.60 | 29.76 | 30.00                           | 5.19     | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |            |                               |       |       |       |       |                                 |          |           |
|-----------------------------------------|-----------|-----|-----|-------------|------------|-------------------------------|-------|-------|-------|-------|---------------------------------|----------|-----------|
| Mod.                                    | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
|                                         |           |     |     |             |            | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |          |           |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full       | 23.70                         | 24.60 | 23.30 | 24.10 | 29.97 | 30.00                           | 5.19     | Pass      |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full       | 23.90                         | 24.20 | 23.20 | 23.90 | 29.84 | 30.00                           | 5.19     | Pass      |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full       | 23.50                         | 24.60 | 23.30 | 23.90 | 29.87 | 30.00                           | 5.19     | Pass      |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full       | 24.00                         | 24.60 | 22.90 | 24.00 | 29.94 | 30.00                           | 5.19     | Pass      |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full       | 24.00                         | 24.70 | 22.80 | 23.90 | 29.92 | 30.00                           | 5.19     | Pass      |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full       | 23.90                         | 24.60 | 23.00 | 23.70 | 29.86 | 30.00                           | 5.19     | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |            |                  |       |       |       |                                    |       |       |       |       |                                |                   |            |
|-----------------------------------------|-----------|-----|-----|-------------|------------|------------------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|--------------------------------|-------------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | Duty Factor(dBm) |       |       |       | Average Power Density (dBm/500kHz) |       |       |       |       | Average PSD Limit (dBm/500kHz) | DG (dBi)          | Pass /Fail |
|                                         |           |     |     |             |            | Ant 5            | Ant 6 | Ant 7 | Ant 8 | Ant 5                              | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8              | Ant 5 + 6 + 7 + 8 |            |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full       | 0.10             | 0.10  | 0.10  | 0.10  | 7.62                               | 9.01  | 7.44  | 8.37  | 15.03 | 30.00                          | 5.74              | Pass       |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full       | 0.10             | 0.10  | 0.10  | 0.10  | 7.97                               | 8.34  | 7.29  | 7.85  | 14.36 | 30.00                          | 5.74              | Pass       |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full       | 0.10             | 0.10  | 0.10  | 0.10  | 7.41                               | 8.57  | 7.40  | 7.89  | 14.59 | 30.00                          | 5.74              | Pass       |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full       | 0.19             | 0.19  | 0.19  | 0.19  | 5.31                               | 6.22  | 4.49  | 5.48  | 12.24 | 30.00                          | 5.74              | Pass       |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full       | 0.19             | 0.19  | 0.19  | 0.19  | 5.59                               | 6.07  | 4.30  | 5.41  | 12.09 | 30.00                          | 5.74              | Pass       |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full       | 0.35             | 0.35  | 0.35  | 0.35  | 2.57                               | 3.41  | 1.83  | 2.45  | 9.43  | 30.00                          | 5.74              | Pass       |

Note: PSD Sum = Max PSD(Ant. 5, Ant. 6, Ant. 7, Ant. 8) + 10 log (n)

<TXBF Mode>

<Nss = 1>

Report Number :

FR4O1125E

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |                 |     |             |                      |                      |                     |                       |            |
|-----------------------------------------|-----------|-----------------|-----|-------------|----------------------|----------------------|---------------------|-----------------------|------------|
| Mod.                                    | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | 26dB Bandwidth (MHz) | 6 dB Bandwidth (MHz) | 99% Bandwidth (MHz) | 6 dB Min. Limit (MHz) | Pass /Fail |
|                                         |           |                 |     |             | Ant 5 + 6 + 7 + 8    | Ant 5 + 6 + 7 + 8    | Ant 5 + 6 + 7 + 8   |                       |            |
| VHT20                                   | MCS0      | 4               | 149 | 5745        | 30.096               | 17.580               | 18.619              | 0.5                   | Pass       |
| VHT20                                   | MCS0      | 4               | 157 | 5785        | 25.576               | 17.595               | 18.782              | 0.5                   | Pass       |
| VHT20                                   | MCS0      | 4               | 165 | 5825        | 29.952               | 16.340               | 18.632              | 0.5                   | Pass       |
| VHT40                                   | MCS0      | 4               | 151 | 5755        | 52.256               | 32.355               | 37.150              | 0.5                   | Pass       |
| VHT40                                   | MCS0      | 4               | 159 | 5795        | 52.368               | 34.452               | 36.463              | 0.5                   | Pass       |
| VHT80                                   | MCS0      | 4               | 155 | 5775        | 82.720               | 67.008               | 75.607              | 0.5                   | Pass       |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                               |       |       |       |       |                                 |                   |           |
|-----------------------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|-------|-------|---------------------------------|-------------------|-----------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi)          | Pass/Fail |
|                                         |           |     |     |             | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8               | Ant 5 + 6 + 7 + 8 |           |
| HT20                                    | MCS0      | 4   | 149 | 5745        | 23.30                         | 24.40 | 23.35 | 23.90 | 29.78 | 30.00                           | 5.74              | Pass      |
| HT20                                    | MCS0      | 4   | 157 | 5785        | 23.60                         | 24.00 | 23.2  | 23.60 | 29.63 | 30.00                           | 5.74              | Pass      |
| HT20                                    | MCS0      | 4   | 165 | 5825        | 23.30                         | 24.00 | 23.5  | 23.90 | 29.70 | 30.00                           | 5.74              | Pass      |
| HT40                                    | MCS0      | 4   | 151 | 5755        | 23.80                         | 24.40 | 22.8  | 23.50 | 29.68 | 30.00                           | 5.74              | Pass      |
| HT40                                    | MCS0      | 4   | 159 | 5795        | 23.90                         | 24.20 | 22.6  | 23.30 | 29.56 | 30.00                           | 5.74              | Pass      |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 23.40                         | 24.50 | 23.45 | 24.00 | 29.88 | 30.00                           | 5.74              | Pass      |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 23.70                         | 24.10 | 23.3  | 23.70 | 29.73 | 30.00                           | 5.74              | Pass      |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 23.40                         | 24.10 | 23.6  | 24.00 | 29.80 | 30.00                           | 5.74              | Pass      |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 23.90                         | 24.50 | 22.9  | 23.60 | 29.78 | 30.00                           | 5.74              | Pass      |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 24.00                         | 24.30 | 22.7  | 23.40 | 29.66 | 30.00                           | 5.74              | Pass      |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 23.80                         | 24.45 | 23    | 23.70 | 29.79 | 30.00                           | 5.74              | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                                    |       |       |       |       |                                |                   |            |
|-----------------------------------------|-----------|-----|-----|-------------|------------------------------------|-------|-------|-------|-------|--------------------------------|-------------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | Average Power Density (dBm/500kHz) |       |       |       |       | Average PSD Limit (dBm/500kHz) | DG (dBi)          | Pass /Fail |
|                                         |           |     |     |             | Ant 5                              | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8              | Ant 5 + 6 + 7 + 8 |            |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 10.54                              | 11.67 | 10.12 | 10.77 | 17.69 | 30.00                          | 5.74              | Pass       |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 10.65                              | 11.72 | 10.56 | 10.91 | 17.74 | 30.00                          | 5.74              | Pass       |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 10.38                              | 11.58 | 11.19 | 11.98 | 18.00 | 30.00                          | 5.74              | Pass       |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 9.63                               | 10.71 | 10.33 | 9.33  | 16.73 | 30.00                          | 5.74              | Pass       |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 10.45                              | 10.13 | 8.53  | 9.06  | 16.47 | 30.00                          | 5.74              | Pass       |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 9.42                               | 10.01 | 9.11  | 9.68  | 16.03 | 30.00                          | 5.74              | Pass       |

Note: PSD Sum = Max PSD(Ant. 5, Ant. 6, Ant. 7, Ant. 8) + 10 log (n)

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |           |                               |       |       |       |       |                                 |          |           |
|-----------------------------------------|-----------|-----|-----|-------------|-----------|-------------------------------|-------|-------|-------|-------|---------------------------------|----------|-----------|
| Mod.                                    | Data Rate | Ntx | CH. | Freq. (MHz) | RU Config | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
|                                         |           |     |     |             |           | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |          |           |
| HE20                                    | MCS0      | 4   | 149 | 5745        | Full      | 23.40                         | 24.50 | 23.40 | 24.00 | 29.87 | 30.00                           | 5.74     | Pass      |
| HE20                                    | MCS0      | 4   | 157 | 5785        | Full      | 23.70                         | 24.10 | 23.30 | 23.80 | 29.75 | 30.00                           | 5.74     | Pass      |
| HE20                                    | MCS0      | 4   | 165 | 5825        | Full      | 23.60                         | 24.10 | 23.60 | 24.00 | 29.85 | 30.00                           | 5.74     | Pass      |
| HE40                                    | MCS0      | 4   | 151 | 5755        | Full      | 24.00                         | 24.50 | 22.90 | 23.60 | 29.81 | 30.00                           | 5.74     | Pass      |
| HE40                                    | MCS0      | 4   | 159 | 5795        | Full      | 24.10                         | 24.30 | 22.70 | 23.50 | 29.71 | 30.00                           | 5.74     | Pass      |
| HE80                                    | MCS0      | 4   | 155 | 5775        | Full      | 23.90                         | 24.50 | 23.00 | 23.70 | 29.83 | 30.00                           | 5.74     | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |           |                      |                      |                     |                       |            |
|-----------------------------------------|-----------|-----|-----|-------------|-----------|----------------------|----------------------|---------------------|-----------------------|------------|
| Mod.                                    | Data Rate | Ntx | CH. | Freq. (MHz) | RU Config | 26dB Bandwidth (MHz) | 6 dB Bandwidth (MHz) | 99% Bandwidth (MHz) | 6 dB Min. Limit (MHz) | Pass /Fail |
|                                         |           |     |     |             |           | Ant 5 + 6 + 7 + 8    | Ant 5 + 6 + 7 + 8    | Ant 5 + 6 + 7 + 8   |                       |            |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full      | 26.096               | 19.110               | 19.246              | 0.5                   | Pass       |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full      | 29.864               | 19.450               | 19.278              | 0.5                   | Pass       |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full      | 26.944               | 19.085               | 19.239              | 0.5                   | Pass       |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full      | 60.368               | 37.278               | 38.070              | 0.5                   | Pass       |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full      | 41.328               | 37.143               | 37.828              | 0.5                   | Pass       |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full      | 83.808               | 76.832               | 77.253              | 0.5                   | Pass       |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |            |                               |       |       |       |       |                                 |          |           |
|-----------------------------------------|-----------|-----|-----|-------------|------------|-------------------------------|-------|-------|-------|-------|---------------------------------|----------|-----------|
| Mod.                                    | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
|                                         |           |     |     |             |            | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |          |           |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full       | 23.50                         | 24.60 | 23.50 | 24.10 | 29.97 | 30.00                           | 5.74     | Pass      |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full       | 23.80                         | 24.20 | 23.40 | 23.90 | 29.85 | 30.00                           | 5.74     | Pass      |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full       | 23.70                         | 24.20 | 23.70 | 24.10 | 29.95 | 30.00                           | 5.74     | Pass      |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full       | 24.10                         | 24.60 | 23.00 | 23.70 | 29.91 | 30.00                           | 5.74     | Pass      |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full       | 24.20                         | 24.40 | 22.80 | 23.60 | 29.81 | 30.00                           | 5.74     | Pass      |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full       | 24.00                         | 24.60 | 23.10 | 23.80 | 29.93 | 30.00                           | 5.74     | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |            |                                    |       |       |       |       |                                |                   |            |
|-----------------------------------------|-----------|-----|-----|-------------|------------|------------------------------------|-------|-------|-------|-------|--------------------------------|-------------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | Average Power Density (dBm/500kHz) |       |       |       |       | Average PSD Limit (dBm/500kHz) | DG (dBi)          | Pass /Fail |
|                                         |           |     |     |             |            | Ant 5                              | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8              | Ant 5 + 6 + 7 + 8 |            |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full       | 10.93                              | 11.76 | 10.17 | 10.83 | 17.78 | 30.00                          | 5.74              | Pass       |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full       | 10.86                              | 11.97 | 10.69 | 11.31 | 17.99 | 30.00                          | 5.74              | Pass       |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full       | 10.57                              | 11.80 | 11.48 | 12.05 | 18.07 | 30.00                          | 5.74              | Pass       |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full       | 9.87                               | 10.75 | 10.48 | 9.55  | 16.77 | 30.00                          | 5.74              | Pass       |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full       | 10.57                              | 10.41 | 8.74  | 9.35  | 16.59 | 30.00                          | 5.74              | Pass       |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full       | 9.50                               | 10.18 | 9.30  | 9.82  | 16.20 | 30.00                          | 5.74              | Pass       |

Note: PSD Sum = Max PSD(Ant. 5, Ant. 6, Ant. 7, Ant. 8) + 10 log (n)

<Nss = 2>

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                               |       |       |       |       |                                 |                   |           |
|-----------------------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|-------|-------|---------------------------------|-------------------|-----------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi)          | Pass/Fail |
|                                         |           |     |     |             | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8               | Ant 5 + 6 + 7 + 8 |           |
| HT20                                    | MCS0      | 4   | 149 | 5745        | 23.30                         | 24.40 | 23.35 | 23.90 | 29.78 | 30.00                           | 5.74              | Pass      |
| HT20                                    | MCS0      | 4   | 157 | 5785        | 23.60                         | 24.00 | 23.2  | 23.60 | 29.63 | 30.00                           | 5.74              | Pass      |
| HT20                                    | MCS0      | 4   | 165 | 5825        | 23.30                         | 24.00 | 23.5  | 23.90 | 29.70 | 30.00                           | 5.74              | Pass      |
| HT40                                    | MCS0      | 4   | 151 | 5755        | 23.80                         | 24.40 | 22.8  | 23.50 | 29.68 | 30.00                           | 5.74              | Pass      |
| HT40                                    | MCS0      | 4   | 159 | 5795        | 23.90                         | 24.20 | 22.6  | 23.30 | 29.56 | 30.00                           | 5.74              | Pass      |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 23.40                         | 24.50 | 23.45 | 24.00 | 29.88 | 30.00                           | 5.74              | Pass      |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 23.70                         | 24.10 | 23.3  | 23.70 | 29.73 | 30.00                           | 5.74              | Pass      |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 23.40                         | 24.10 | 23.6  | 24.00 | 29.80 | 30.00                           | 5.74              | Pass      |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 23.90                         | 24.50 | 22.9  | 23.60 | 29.78 | 30.00                           | 5.74              | Pass      |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 24.00                         | 24.30 | 22.7  | 23.40 | 29.66 | 30.00                           | 5.74              | Pass      |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 23.80                         | 24.45 | 23    | 23.70 | 29.79 | 30.00                           | 5.74              | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |                                    |       |       |       |       |                                |                   |            |
|-----------------------------------------|-----------|-----|-----|-------------|------------------------------------|-------|-------|-------|-------|--------------------------------|-------------------|------------|
| Mod.                                    | Data Rate | NTx | CH. | Freq. (MHz) | Average Power Density (dBm/500kHz) |       |       |       |       | Average PSD Limit (dBm/500kHz) | DG (dBi)          | Pass /Fail |
|                                         |           |     |     |             | Ant 5                              | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8              | Ant 5 + 6 + 7 + 8 |            |
| VHT20                                   | MCS0      | 4   | 149 | 5745        | 10.54                              | 11.67 | 10.12 | 10.77 | 17.69 | 30.00                          | 5.74              | Pass       |
| VHT20                                   | MCS0      | 4   | 157 | 5785        | 10.65                              | 11.72 | 10.56 | 10.91 | 17.74 | 30.00                          | 5.74              | Pass       |
| VHT20                                   | MCS0      | 4   | 165 | 5825        | 10.38                              | 11.58 | 11.19 | 11.98 | 18.00 | 30.00                          | 5.74              | Pass       |
| VHT40                                   | MCS0      | 4   | 151 | 5755        | 9.63                               | 10.71 | 10.33 | 9.33  | 16.73 | 30.00                          | 5.74              | Pass       |
| VHT40                                   | MCS0      | 4   | 159 | 5795        | 10.45                              | 10.13 | 8.53  | 9.06  | 16.47 | 30.00                          | 5.74              | Pass       |
| VHT80                                   | MCS0      | 4   | 155 | 5775        | 9.42                               | 10.01 | 9.11  | 9.68  | 16.03 | 30.00                          | 5.74              | Pass       |

Note: PSD Sum = Max PSD(Ant. 5, Ant. 6, Ant. 7, Ant. 8) + 10 log (n)

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |           |                               |       |       |       |       |                                 |                   |           |
|-----------------------------------------|-----------|-----|-----|-------------|-----------|-------------------------------|-------|-------|-------|-------|---------------------------------|-------------------|-----------|
| Mod.                                    | Data Rate | Ntx | CH. | Freq. (MHz) | RU Config | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi)          | Pass/Fail |
|                                         |           |     |     |             |           | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |                   |           |
| HE20                                    | MCS0      | 4   | 149 | 5745        | Full      | 23.40                         | 24.50 | 23.40 | 24.00 | 29.87 | Ant 5 + 6 + 7 + 8               | Ant 5 + 6 + 7 + 8 | Pass      |
| HE20                                    | MCS0      | 4   | 157 | 5785        | Full      | 23.70                         | 24.10 | 23.30 | 23.80 | 29.75 | 30.00                           | 5.74              | Pass      |
| HE20                                    | MCS0      | 4   | 165 | 5825        | Full      | 23.60                         | 24.10 | 23.60 | 24.00 | 29.85 | 30.00                           | 5.74              | Pass      |
| HE40                                    | MCS0      | 4   | 151 | 5755        | Full      | 24.00                         | 24.50 | 22.90 | 23.60 | 29.81 | 30.00                           | 5.74              | Pass      |
| HE40                                    | MCS0      | 4   | 159 | 5795        | Full      | 24.10                         | 24.30 | 22.70 | 23.50 | 29.71 | 30.00                           | 5.74              | Pass      |
| HE80                                    | MCS0      | 4   | 155 | 5775        | Full      | 23.90                         | 24.50 | 23.00 | 23.70 | 29.83 | 30.00                           | 5.74              | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |     |     |             |            |                               |       |       |       |       |                                 |          |           |
|-----------------------------------------|-----------|-----|-----|-------------|------------|-------------------------------|-------|-------|-------|-------|---------------------------------|----------|-----------|
| Mod.                                    | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) |       |       |       |       | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
|                                         |           |     |     |             |            | Ant 5                         | Ant 6 | Ant 7 | Ant 8 | SUM   |                                 |          |           |
| EHT20                                   | MCS0      | 4   | 149 | 5745        | Full       | 23.50                         | 24.60 | 23.50 | 24.10 | 29.97 | 30.00                           | 5.74     | Pass      |
| EHT20                                   | MCS0      | 4   | 157 | 5785        | Full       | 23.80                         | 24.20 | 23.40 | 23.90 | 29.85 | 30.00                           | 5.74     | Pass      |
| EHT20                                   | MCS0      | 4   | 165 | 5825        | Full       | 23.70                         | 24.20 | 23.70 | 24.10 | 29.95 | 30.00                           | 5.74     | Pass      |
| EHT40                                   | MCS0      | 4   | 151 | 5755        | Full       | 24.10                         | 24.60 | 23.00 | 23.70 | 29.91 | 30.00                           | 5.74     | Pass      |
| EHT40                                   | MCS0      | 4   | 159 | 5795        | Full       | 24.20                         | 24.40 | 22.80 | 23.60 | 29.81 | 30.00                           | 5.74     | Pass      |
| EHT80                                   | MCS0      | 4   | 155 | 5775        | Full       | 24.00                         | 24.60 | 23.10 | 23.80 | 29.93 | 30.00                           | 5.74     | Pass      |

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

| Band IV MIMO 4Tx Mode Ant 5 + 6 + 7 + 8 |           |                 |     |             |            |                                    |       |       |       |       |                                |                   |            |
|-----------------------------------------|-----------|-----------------|-----|-------------|------------|------------------------------------|-------|-------|-------|-------|--------------------------------|-------------------|------------|
| Mod.                                    | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | RU Config. | Average Power Density (dBm/500kHz) |       |       |       |       | Average PSD Limit (dBm/500kHz) | DG (dBi)          | Pass /Fail |
|                                         |           |                 |     |             |            | Ant 5                              | Ant 6 | Ant 7 | Ant 8 | SUM   | Ant 5 + 6 + 7 + 8              | Ant 5 + 6 + 7 + 8 |            |
| EHT20                                   | MCS0      | 4               | 149 | 5745        | Full       | 10.93                              | 11.76 | 10.17 | 10.83 | 17.78 | 30.00                          | 5.74              | Pass       |
| EHT20                                   | MCS0      | 4               | 157 | 5785        | Full       | 10.86                              | 11.97 | 10.69 | 11.31 | 17.99 | 30.00                          | 5.74              | Pass       |
| EHT20                                   | MCS0      | 4               | 165 | 5825        | Full       | 10.57                              | 11.80 | 11.48 | 12.05 | 18.07 | 30.00                          | 5.74              | Pass       |
| EHT40                                   | MCS0      | 4               | 151 | 5755        | Full       | 9.87                               | 10.75 | 10.48 | 9.55  | 16.77 | 30.00                          | 5.74              | Pass       |
| EHT40                                   | MCS0      | 4               | 159 | 5795        | Full       | 10.57                              | 10.41 | 8.74  | 9.35  | 16.59 | 30.00                          | 5.74              | Pass       |
| EHT80                                   | MCS0      | 4               | 155 | 5775        | Full       | 9.50                               | 10.18 | 9.30  | 9.82  | 16.20 | 30.00                          | 5.74              | Pass       |

Note: PSD Sum = Max PSD(Ant. 5, Ant. 6, Ant. 7, Ant. 8) + 10 log (n)



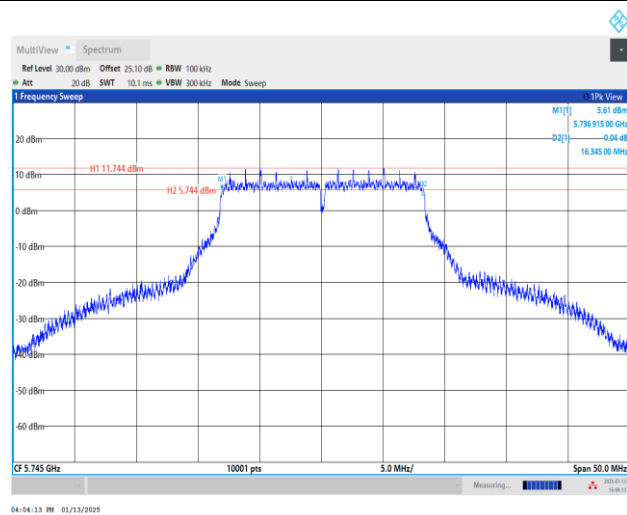
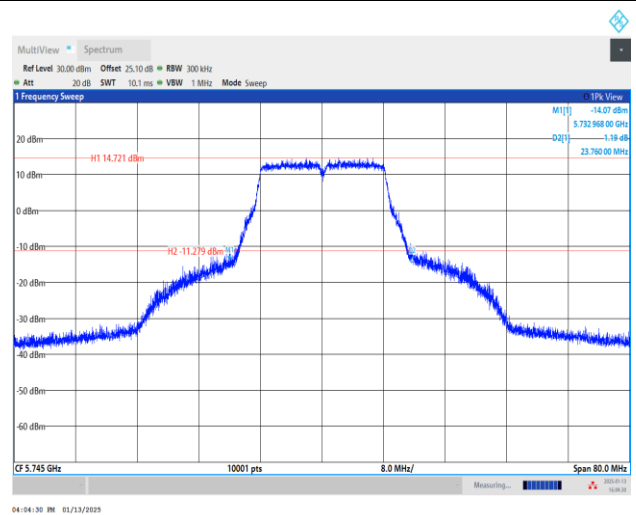
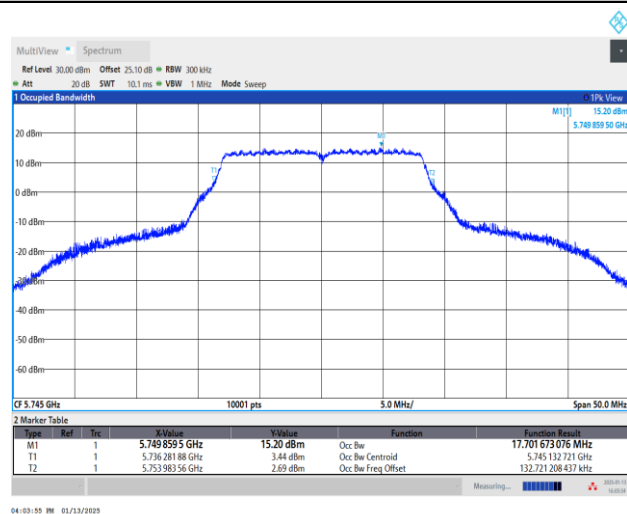
&lt;CDD Mode&gt;

&lt;Nss = 1&gt;

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

MIMO &lt;Ant. 5+6+7+8&gt;

&lt;802.11a&gt;

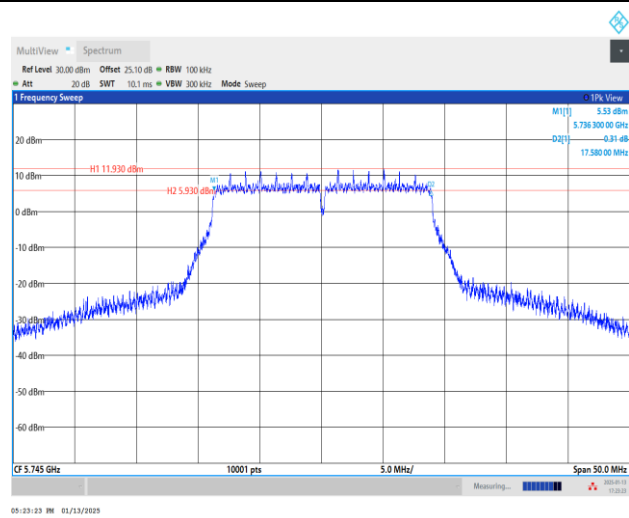
**6dB Bandwidth****26dB Bandwidth****99% Occupied Bandwidth**

N/A

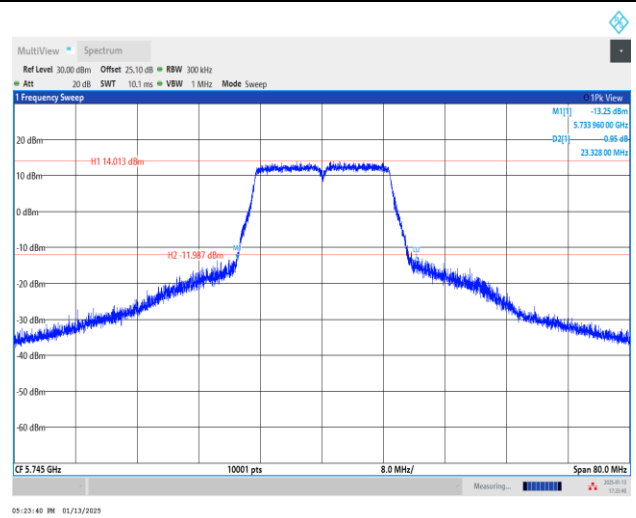


## &lt;802.11ac VHT20&gt;

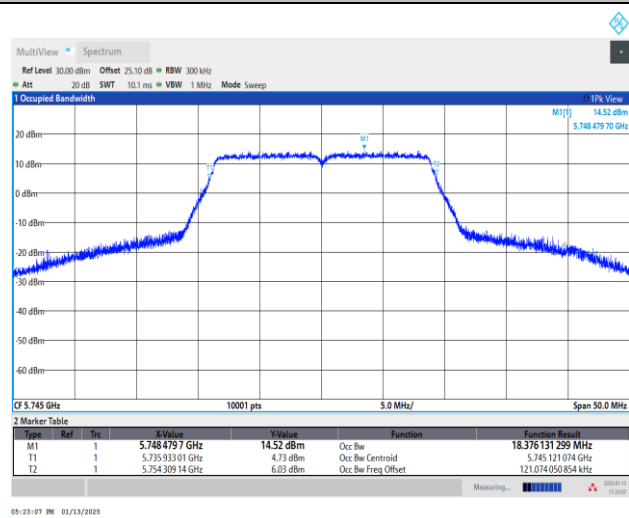
## 6dB Bandwidth



## 26dB Bandwidth



## 99% Occupied Bandwidth

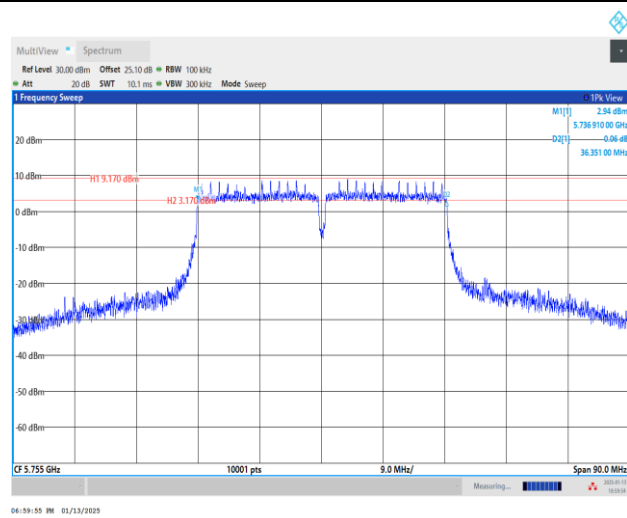


## N/A

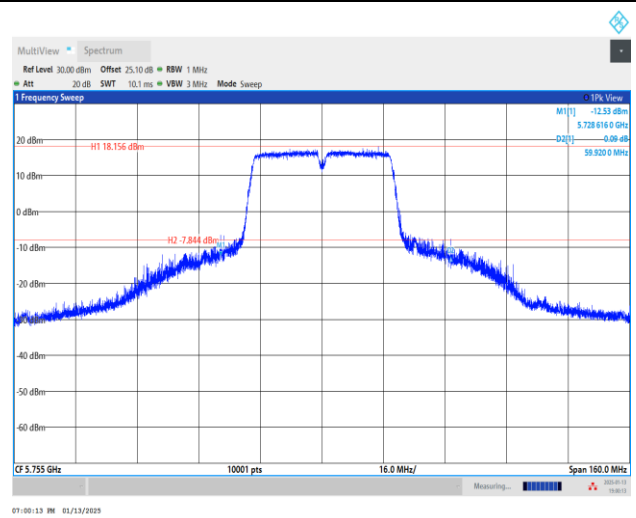


## &lt;802.11ac VHT40&gt;

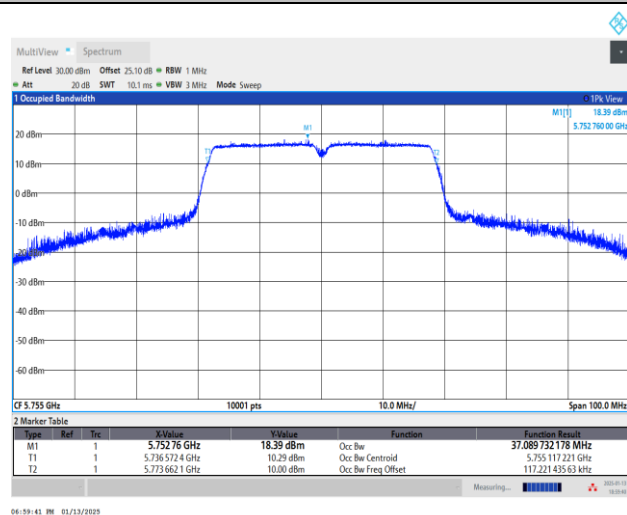
## 6dB Bandwidth



## 26dB Bandwidth



## 99% Occupied Bandwidth

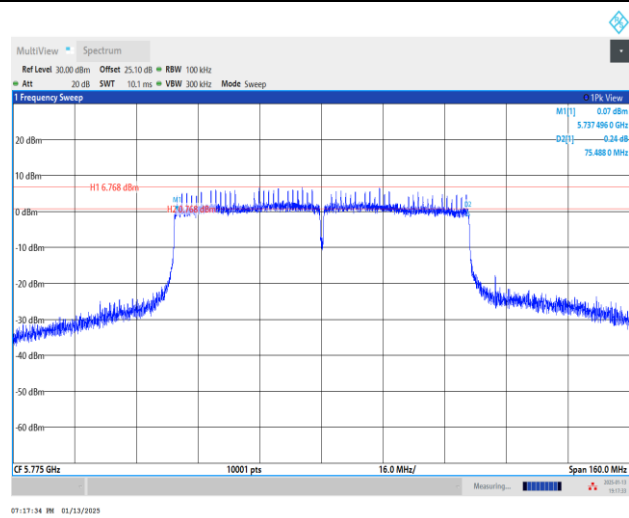


## N/A

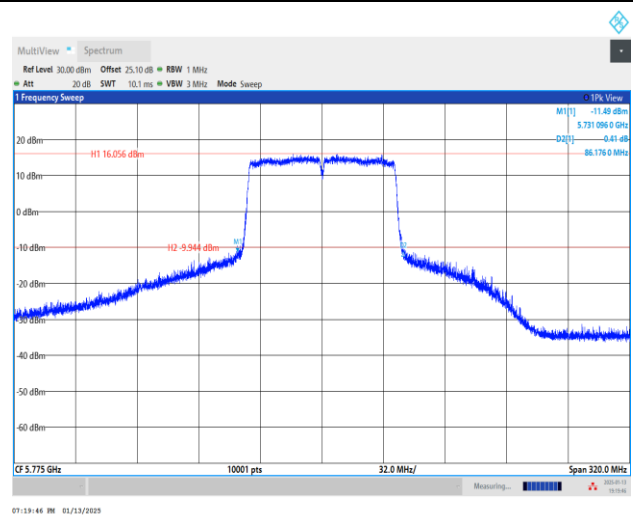


## &lt;802.11ac VHT80&gt;

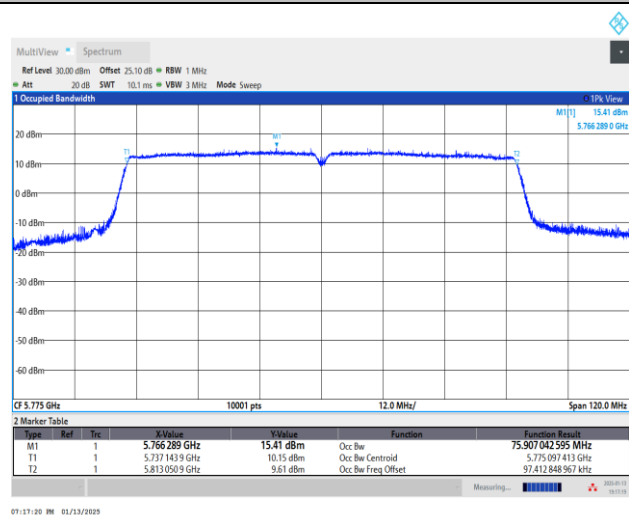
## 6dB Bandwidth



## 26dB Bandwidth



## 99% Occupied Bandwidth

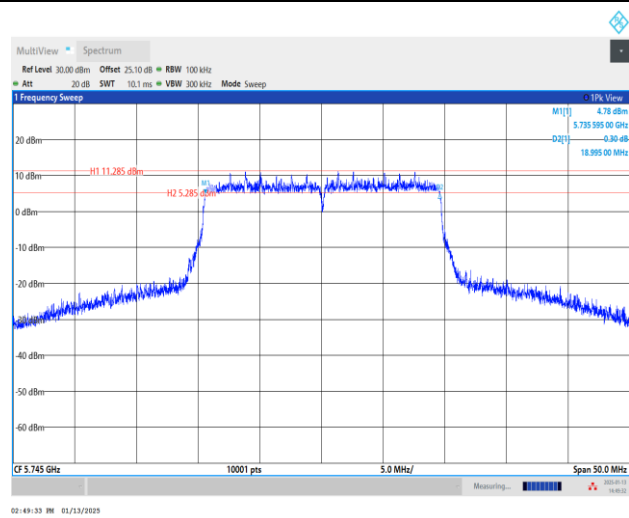


## N/A

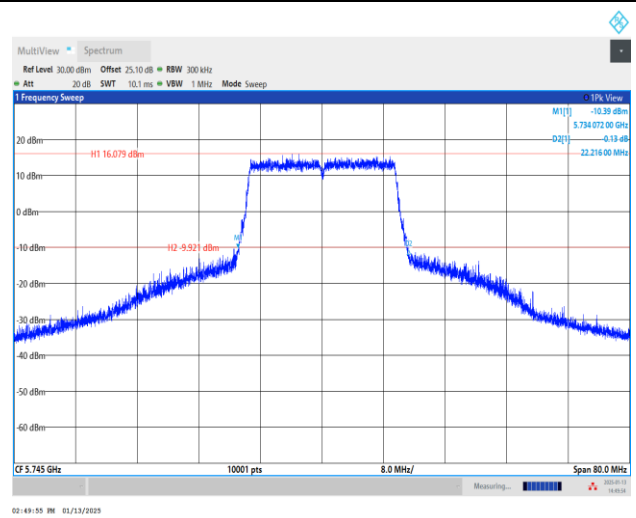


## &lt;802.11be EHT20&gt;

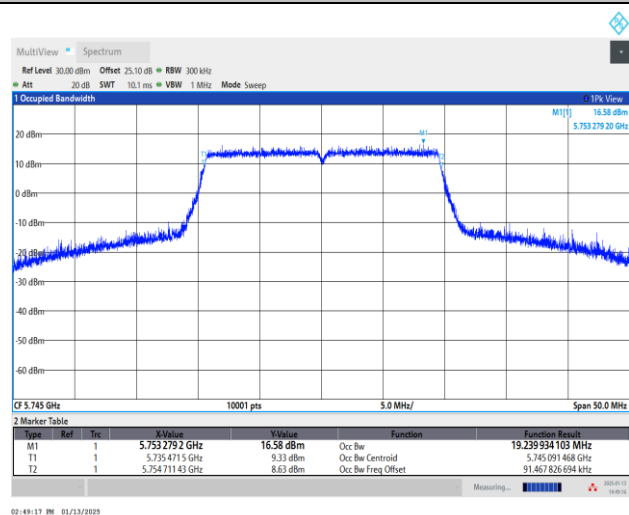
## 6dB Bandwidth



## 26dB Bandwidth



## 99% Occupied Bandwidth

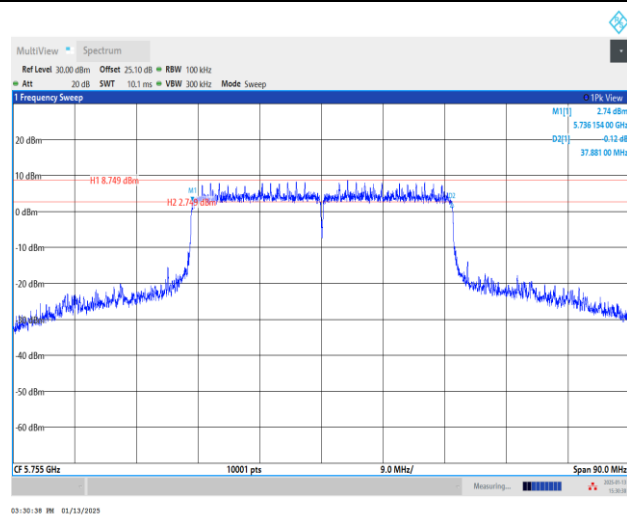


## N/A

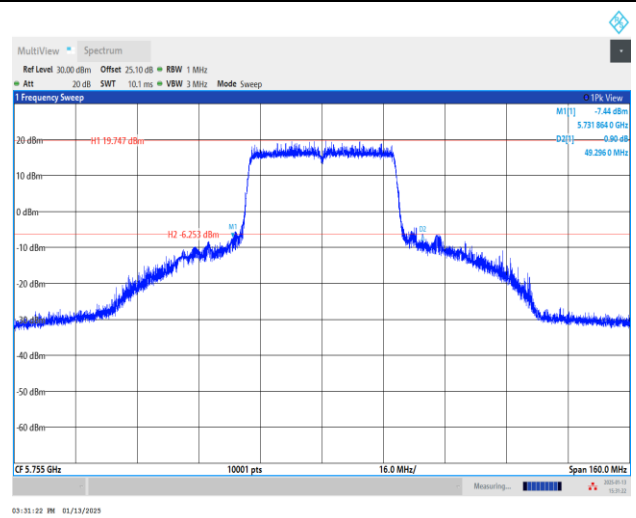


## &lt;802.11be EHT40&gt;

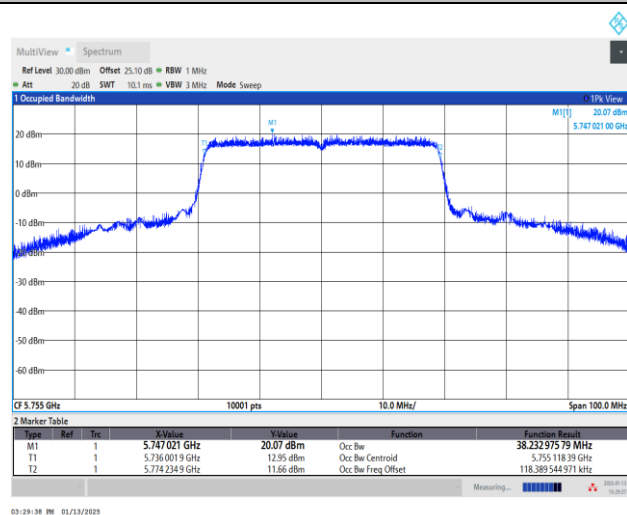
## 6dB Bandwidth



## 26dB Bandwidth



## 99% Occupied Bandwidth

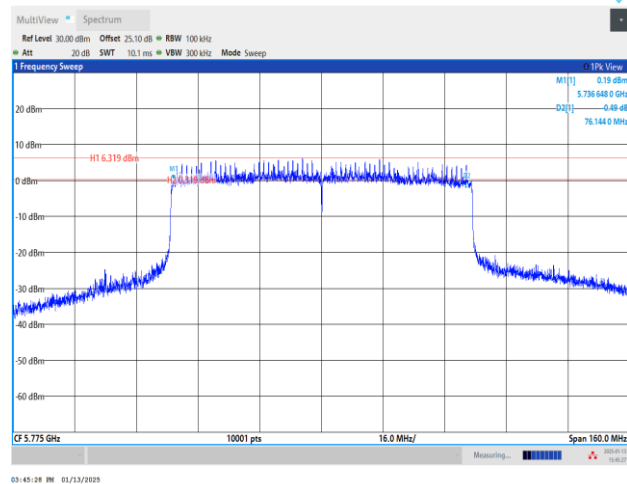


## N/A

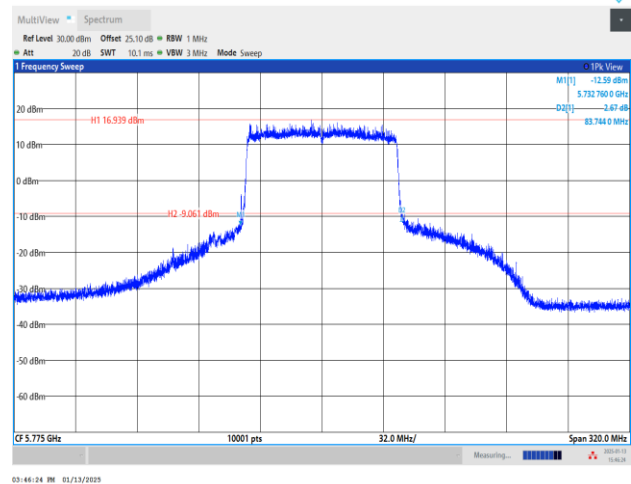


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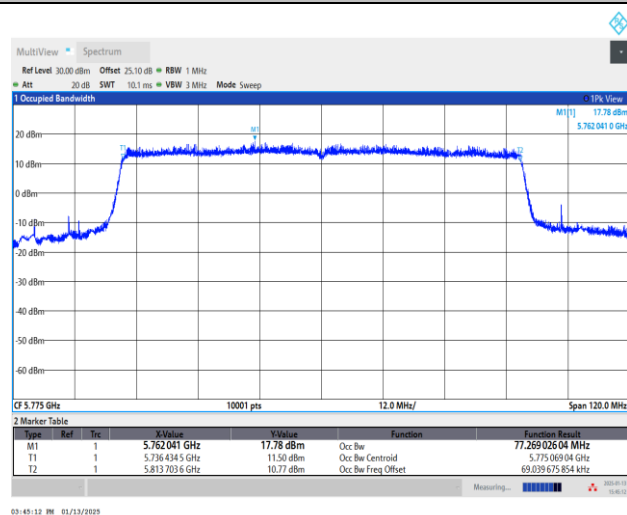
## 6dB Bandwidth



## 26dB Bandwidth



## 99% Occupied Bandwidth

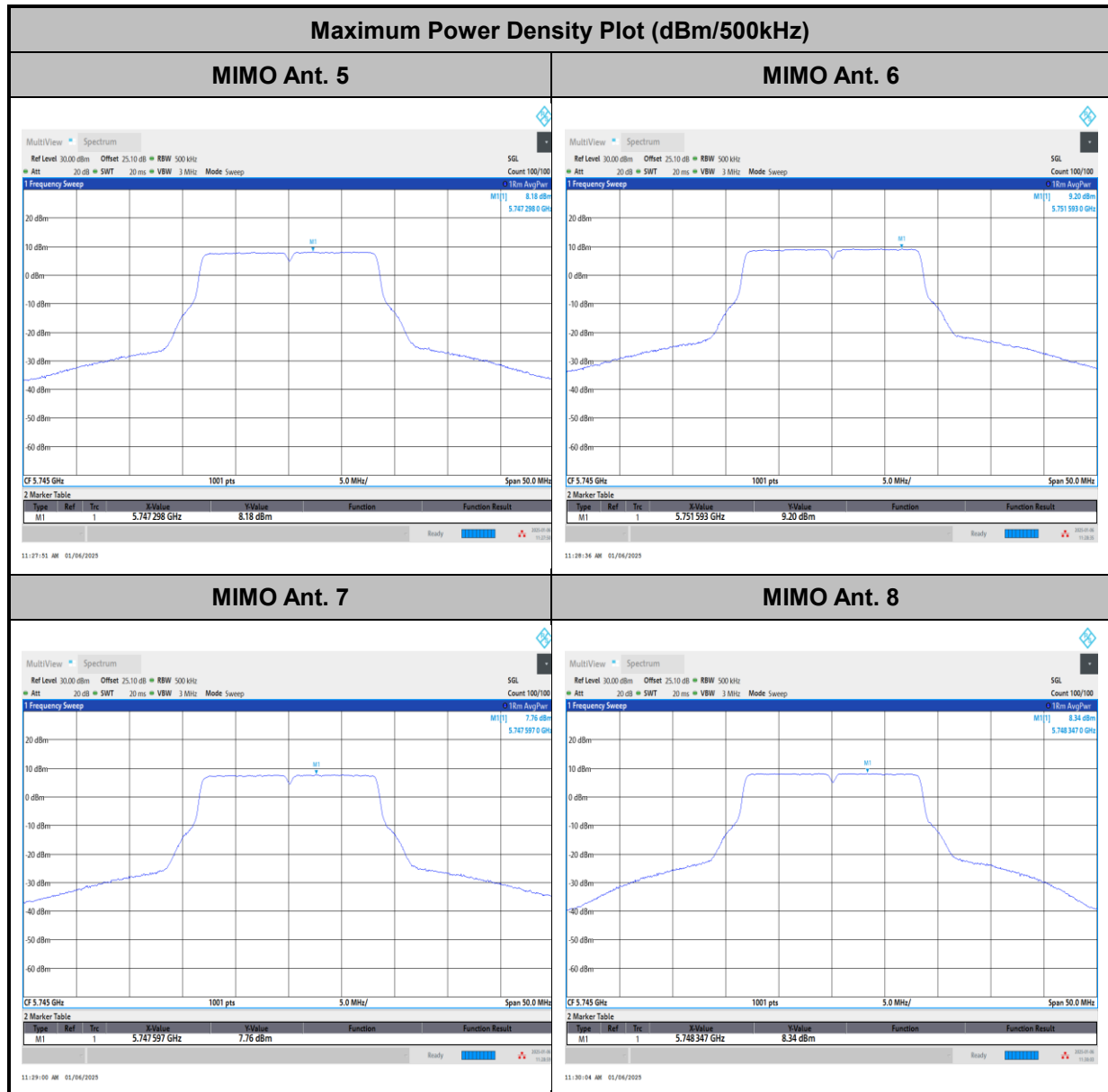


## N/A



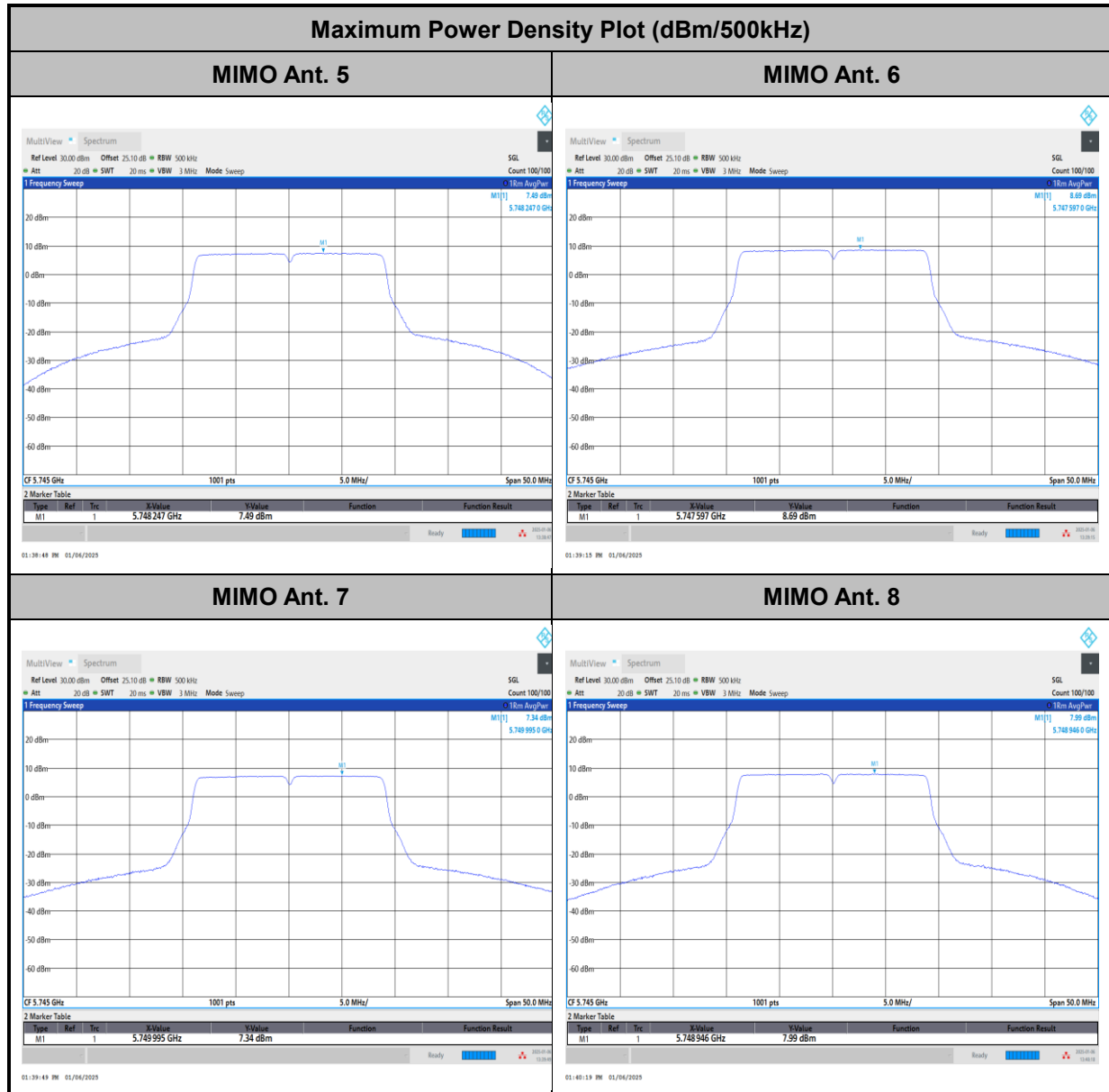
## Test Result of Power Spectral Density

&lt;802.11a&gt;



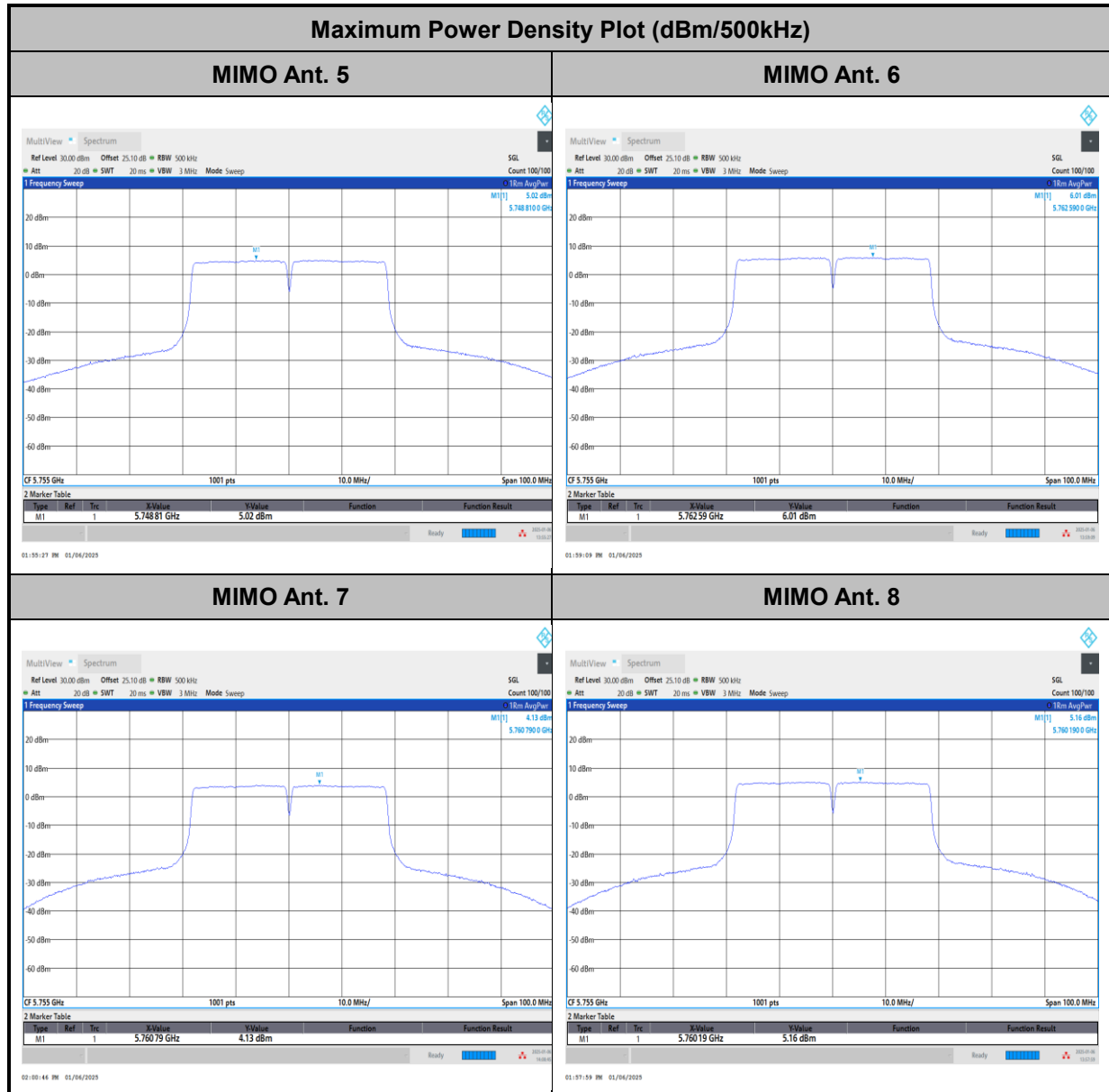


&lt;802.11ac VHT20&gt;



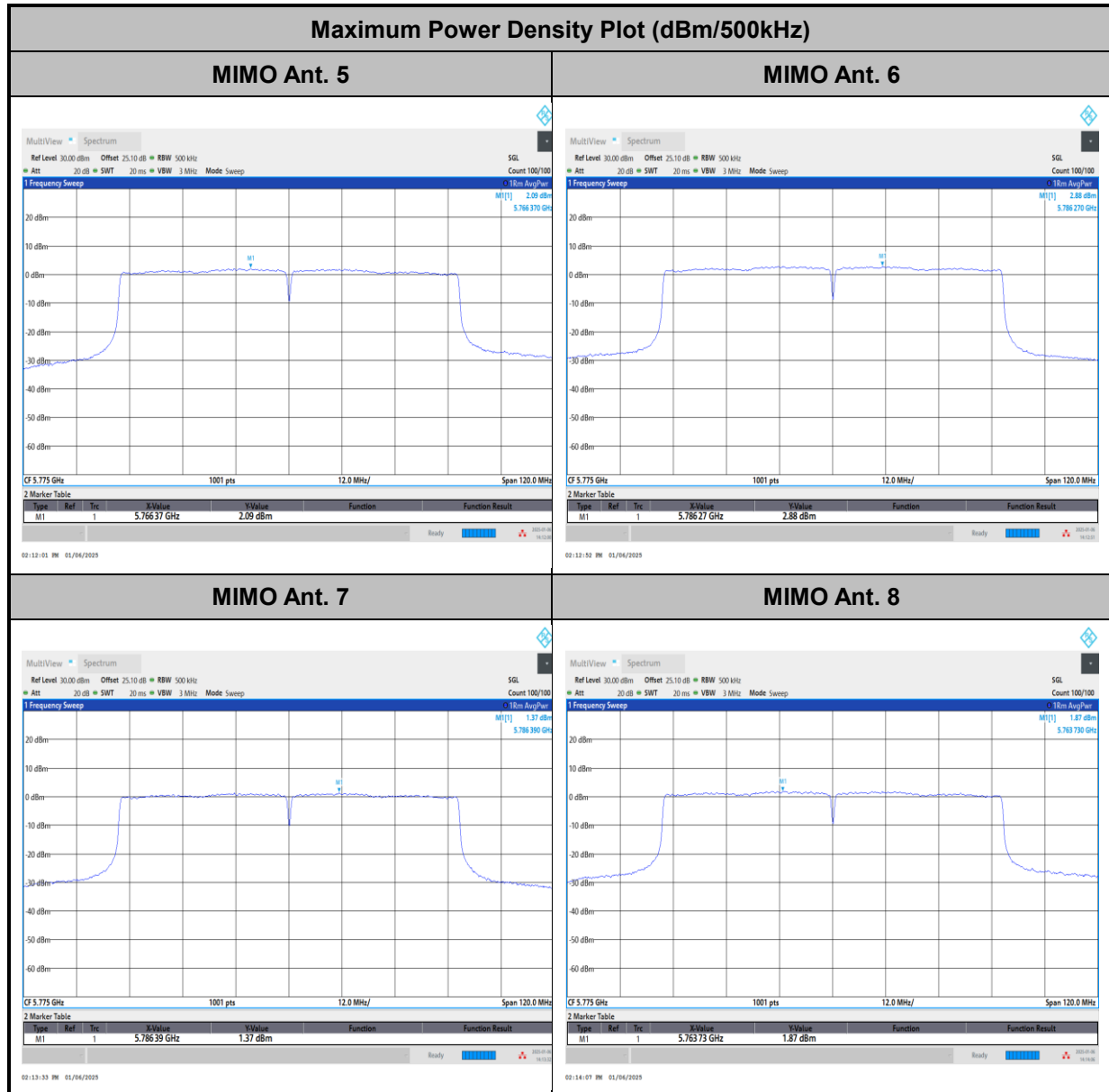


&lt;802.11ac VHT40&gt;



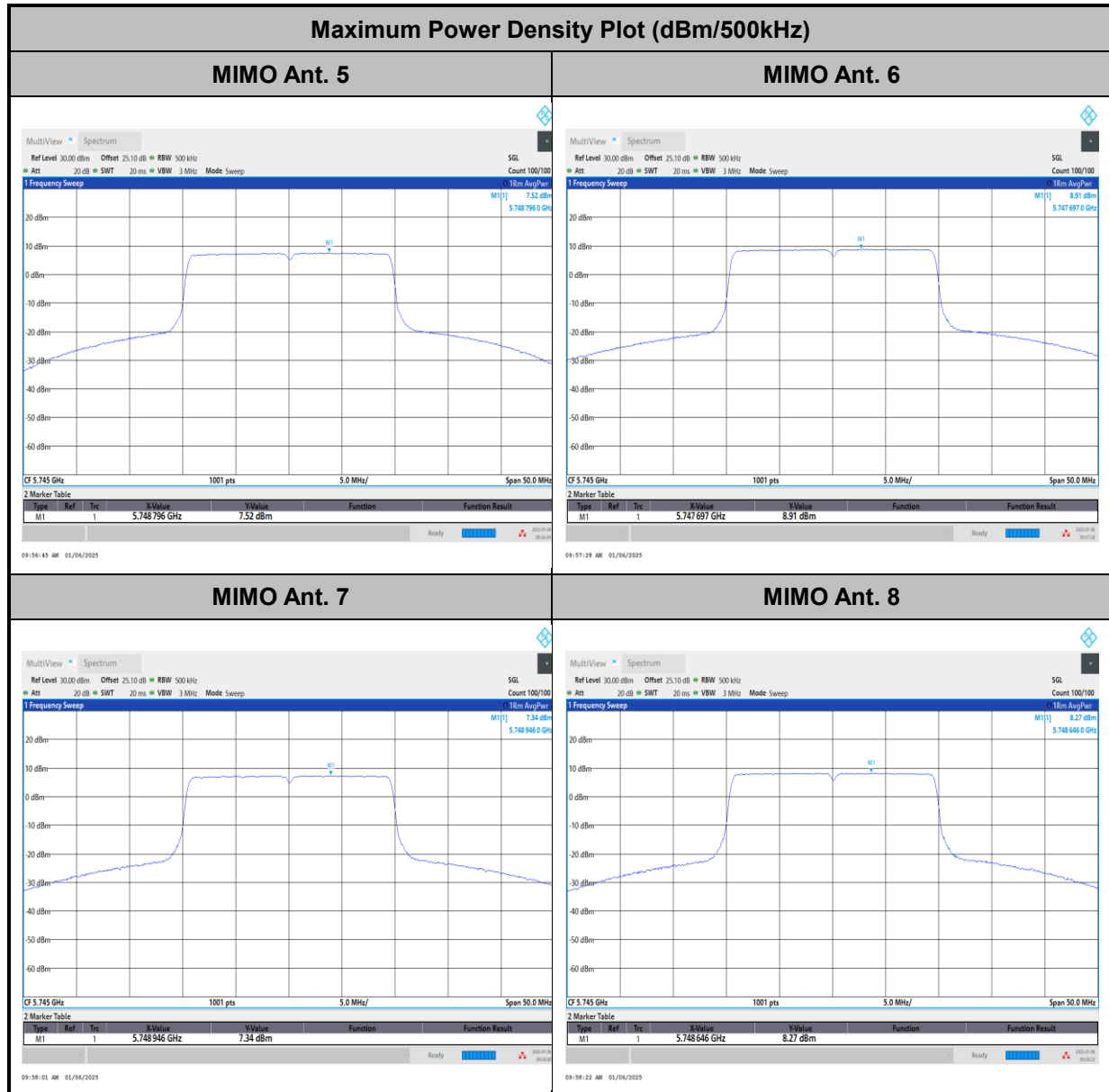


&lt;802.11ac VHT80&gt;



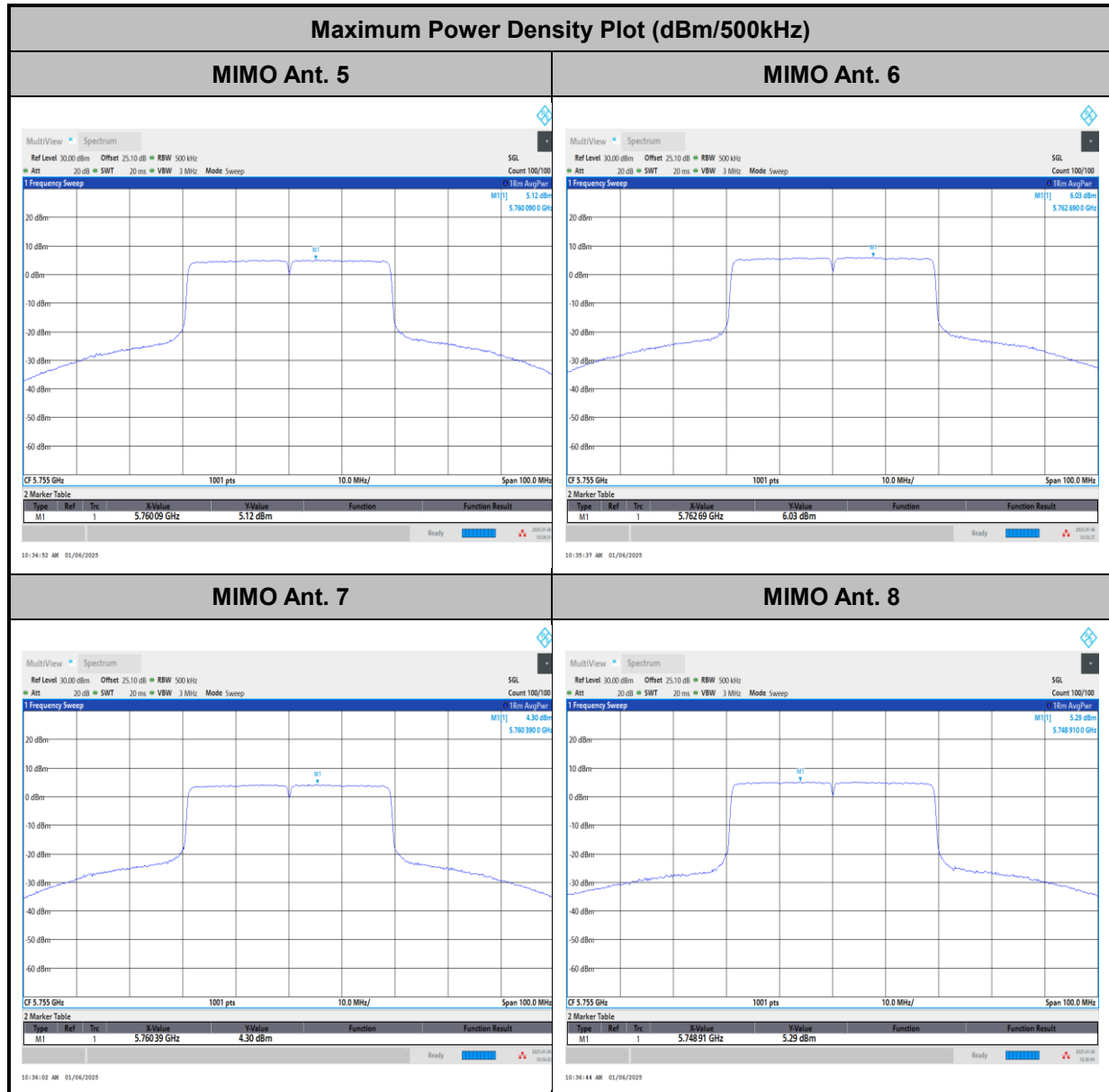


&lt;802.11be EHT20&gt;



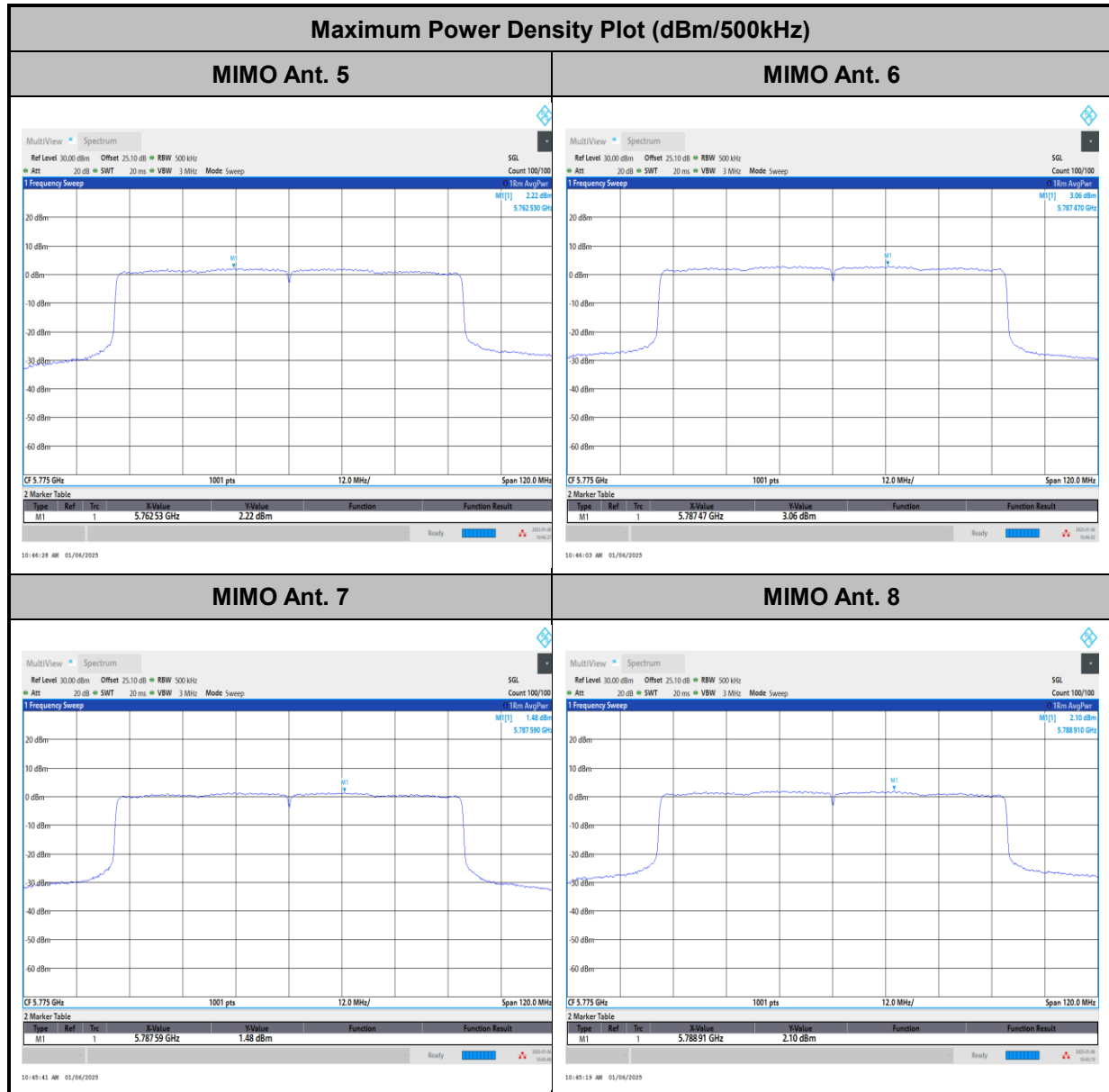


&lt;802.11be EHT40&gt;





&lt;802.11be EHT80&gt;

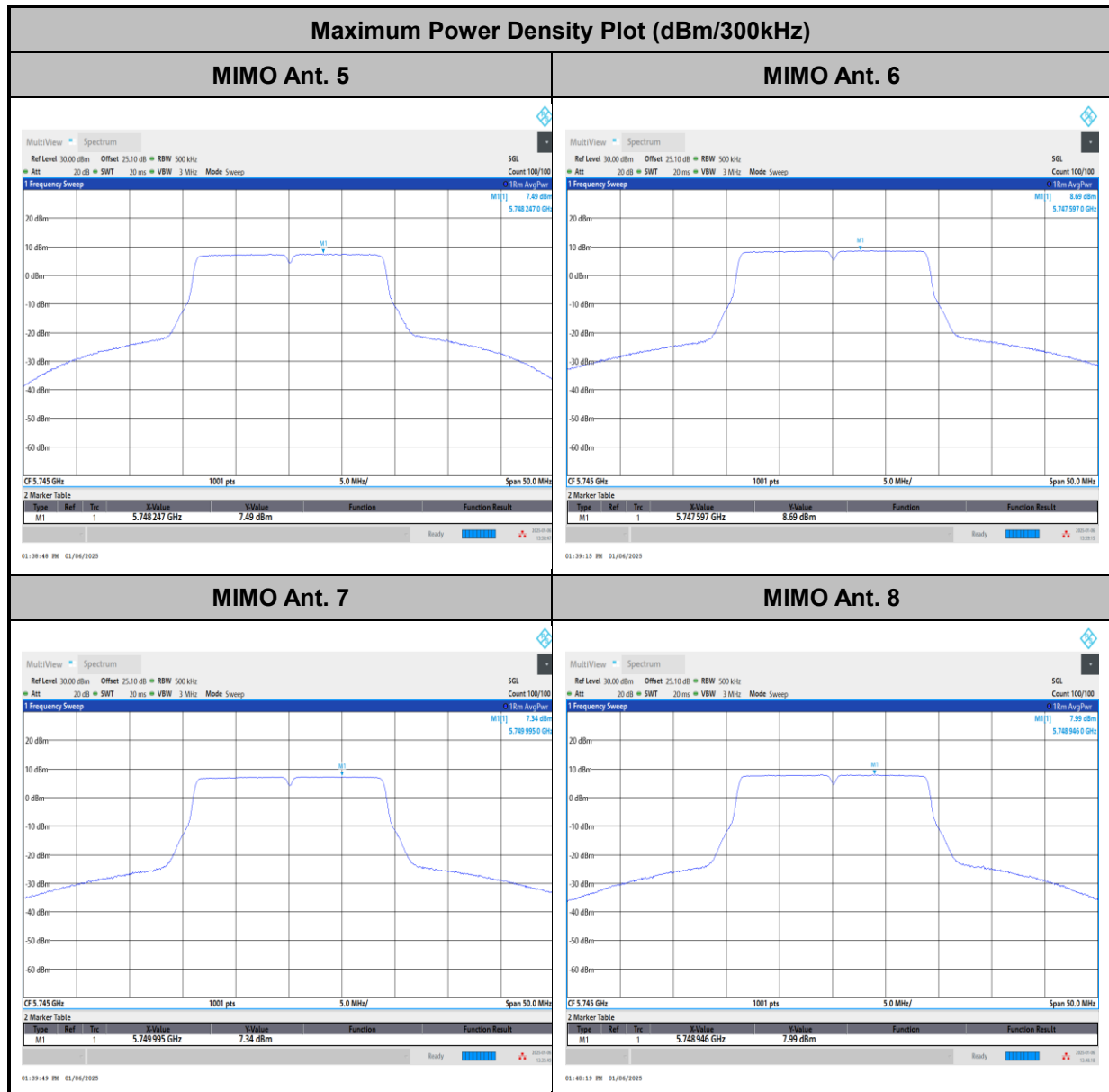




&lt;Nss = 2&gt;

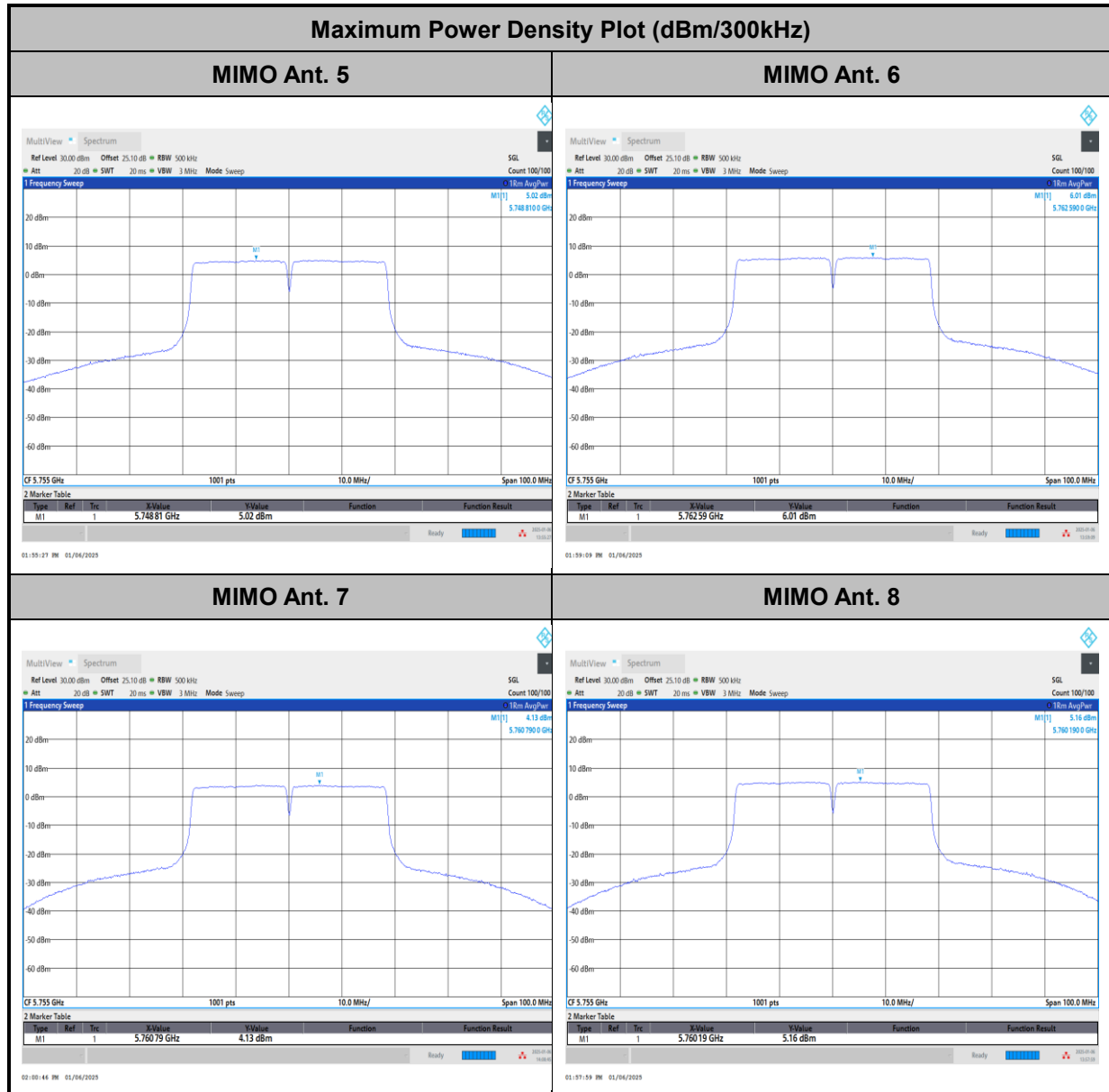
**Test Result of Power Spectral Density**

&lt;802.11ac VHT20&gt;



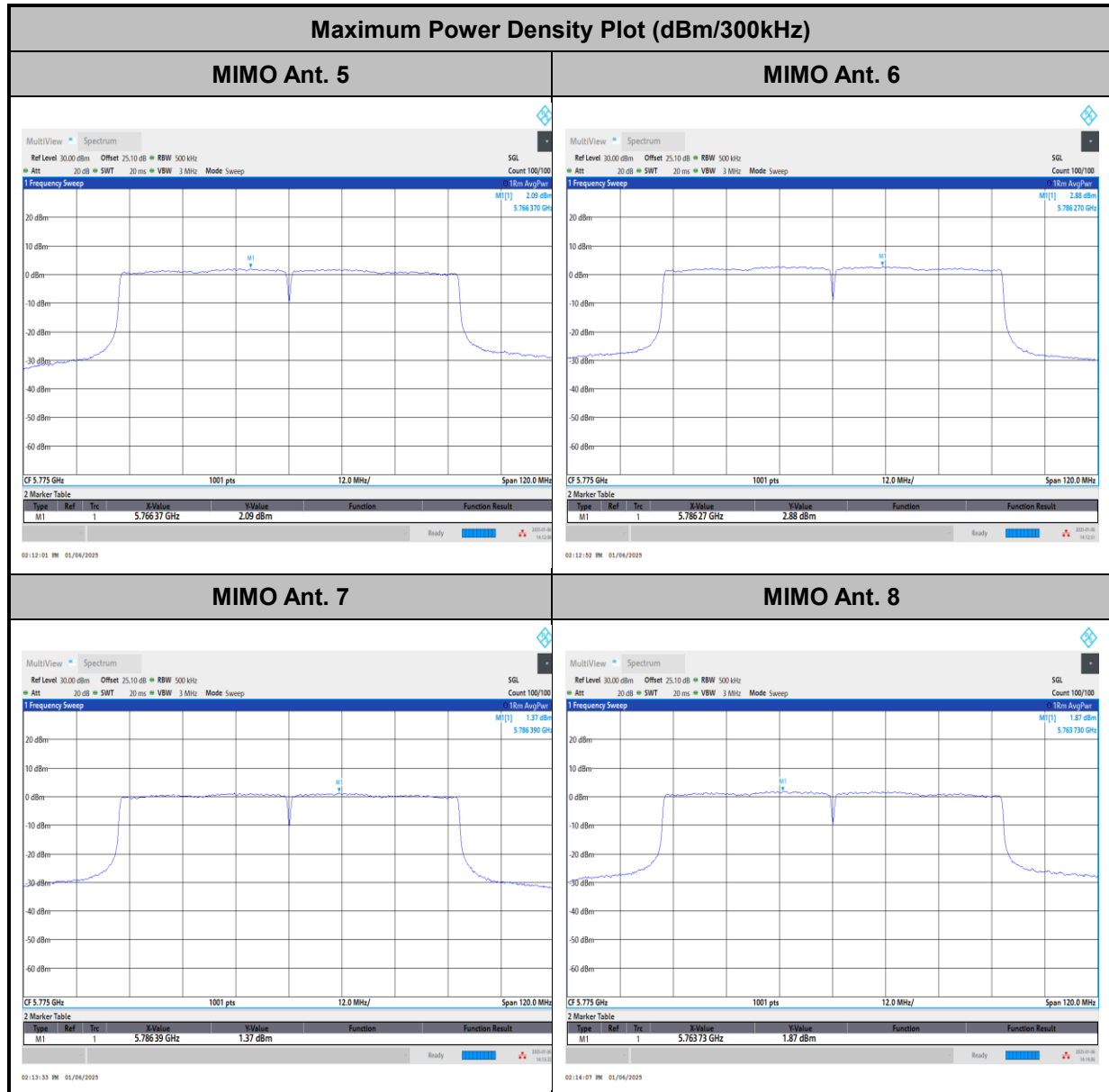


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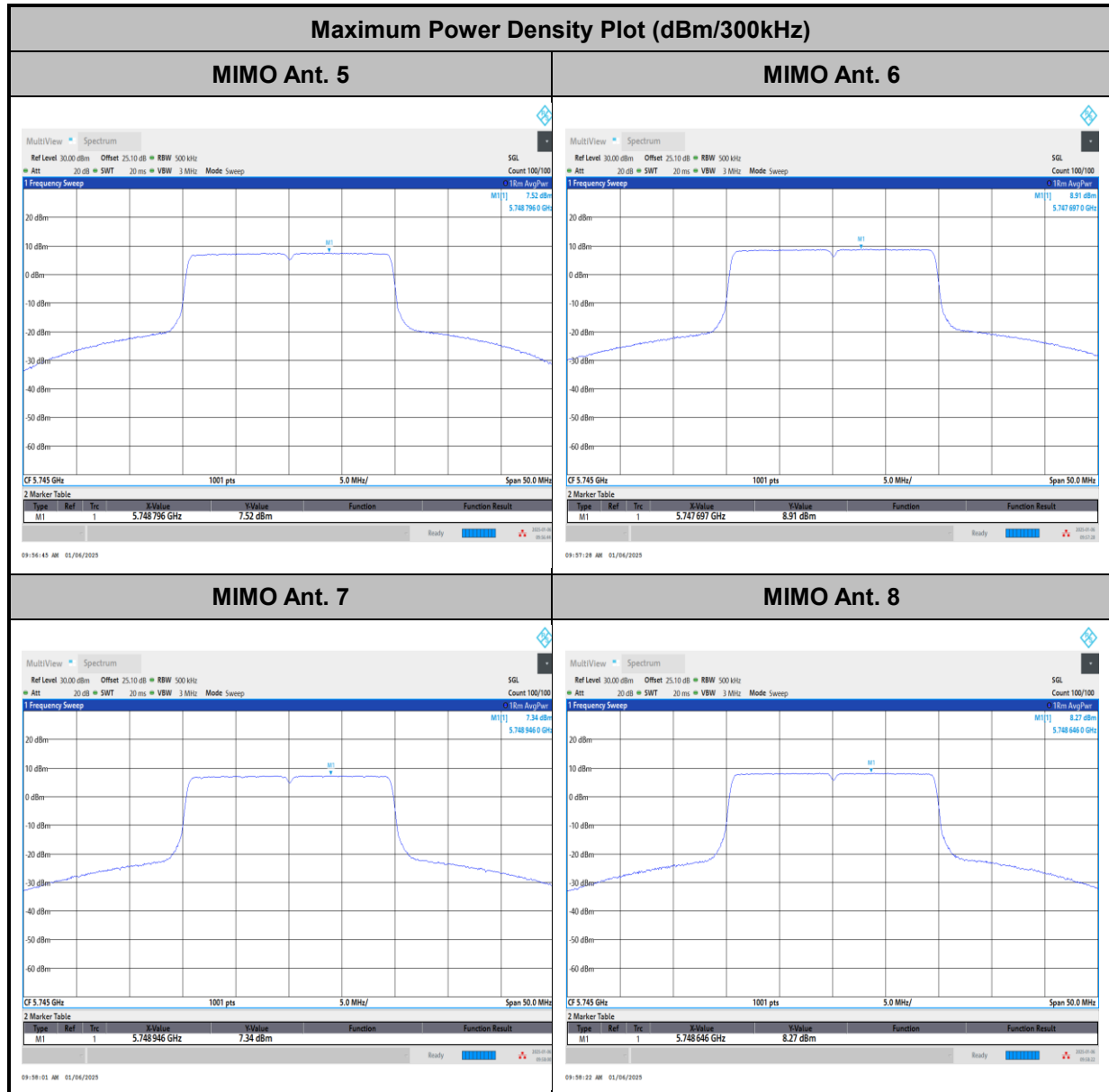


&lt;802.11ac VHT80&gt;





&lt;802.11be EHT20&gt;





&lt;802.11be EHT40&gt;

