

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT**

**Applicant:** Raytac Corp.  
8F, No.788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei  
City, 235, Taiwan

**Manufacturer:** Raytac Corp.  
8F, No.788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei  
City, 235, Taiwan

**Product Name:** WiFi Low Energy & IEEE 802.11 a/b/g/n/ac/ax Module

**Brand Name:** Raytac

**Model No.:** AN7002Q-U  
**/ISED HVIN:**

**Family Model No.:** AN7002Q-P, AN7002Q  
**/ Family ISED HVIN:**

**Model Difference:** Refer to section1.2

**ISED PMN:** AN7002Q-U

**Report Number:** TERF2409002669ER

**FCC ID** SH6AN7002Q

**IC:** 8017A-AN7002Q

**Date of EUT Received:** September 5, 2024

**Date of Test:** September 6, 2024 ~ February 19, 2025

**Issue Date:** September 25, 2025

**Approved By****Arno Hsieh****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-247.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description              | Issue Date         | Revised By | Remark |
|------------------|----------|--------------------------|--------------------|------------|--------|
| TERF2409002669ER | 00       | Original                 | April 14, 2025     | Yuri Tsai  |        |
| TERF2409002669ER | 01       | Update EUT received date | September 25, 2025 | Yuri Tsai  |        |
|                  |          |                          |                    |            |        |
|                  |          |                          |                    |            |        |
|                  |          |                          |                    |            |        |
|                  |          |                          |                    |            |        |
|                  |          |                          |                    |            |        |

### Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
- 3、Please be noted that the report **TR\_TERF2409002669ER\_Revision 01** will replace the previous **TR\_TERF2409002669ER\_Revision 00** as the new version. Also be pay attention that **TR\_TERF2409002669ER\_Revision 00** is ineffective anymore from now on.

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## Contents

|    |                                                  |      |
|----|--------------------------------------------------|------|
| 1  | GENERAL INFORMATION .....                        | 4    |
| 2  | SYSTEM TEST CONFIGURATION .....                  | 8    |
| 3  | SUMMARY OF TEST RESULT .....                     | 11   |
| 4  | DESCRIPTION OF TEST MODES .....                  | 12   |
| 5  | MEASUREMENT UNCERTAINTY .....                    | 15   |
| 6  | MEASUREMENT EQUIPMENT USED .....                 | 16   |
| 7  | CONDUCTED EMISSION TEST .....                    | 18   |
| 8  | EMISSION BANDWIDTH MEASUREMENT .....             | 21   |
| 9  | MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT ..... | 44   |
| 10 | MAXIMUM POWER SPECTRAL DENSITY .....             | 60   |
| 11 | UNDESIRABLE RADIATED EMISSION MEASUREMENT .....  | 79   |
| 12 | TRANSMISSION IN THE ABSENCE OF DATA.....         | 1060 |
| 13 | ANTENNA REQUIREMENT .....                        | 1061 |
| 14 | PHOTOGRAPHS OF SET UP .....                      | 1062 |
| 15 | PHOTOGRAPHS OF EUT.....                          | 1062 |

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                                          |                                                    |
|------------------------------------------|----------------------------------------------------|
| Product Name:                            | WiFi Low Energy & IEEE 802.11 a/b/g/n/ac/ax Module |
| Brand Name:                              | Raytac                                             |
| Model No.:<br>/ISED HVIN:                | AN7002Q-U                                          |
| Family Model No.:<br>/ Family ISED HVIN: | AN7002Q-P, AN7002Q                                 |
| Hardware Version:                        | v0.9                                               |
| Firmware Version:                        | v2.5.2                                             |
| EUT Series No.:                          | DUT11                                              |
| Power Supply:                            | 3.6 Vdc                                            |
| Test Software<br>(Name/Version)          | PuTTY Version 0.79                                 |

### 1.2 Model Difference

| Diversity Description | Original Model                         | Series Model               | Series Model                   |
|-----------------------|----------------------------------------|----------------------------|--------------------------------|
|                       | AN7002Q-U                              | AN7002Q-P                  | AN7002Q                        |
| Components            | External Antenna<br>(Dipole, Monopole) | On board Antenna<br>(PIFA) | On board Antenna<br>(Monopole) |
| Size                  | 16.4 x10.8x2.1mm                       | 17.1x10.8x2.1mm            | 17.1x10.8x2.1mm                |

### 1.3 Modulation & Data Rate

|                  |                                                                    |
|------------------|--------------------------------------------------------------------|
| Modulation type: | 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n                  |
|                  | 256QAM, 64QAM, 16QAM, QPSK, BPSK<br>for OFDM in 802.11ac           |
|                  | 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK<br>for OFDMA in 802.11ax |
| Transition Rate: | 802.11 a: 6 - 54 Mbps                                              |
|                  | 802.11 n_HT20: up to 72.2 Mbps                                     |
|                  | 802.11 ac_VHT20: up to 86.7 Mbps                                   |
|                  | 802.11 ax_HE20: up to 143.4 Mbps                                   |

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## 1.4 Antenna Designation

### External Antenna:

| Antenna Type | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|-------------|-------------------------|
| Dipole       | 5150~5895   | 5.2                     |
| Dipole       | 5150~5895   | 3.8                     |
| Dipole       | 5150~5895   | 4.5                     |
| Monopole     | 5150~5895   | 3.7                     |

### On Board Antenna:

| Antenna Type | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|-------------|-------------------------|
| Monopole     | 5150~5895   | 4.68                    |
| PIFA         | 5150~5895   | 4.84                    |

### Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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## 1.5 FCC

| Wi-Fi                                                         | Frequency Range | Channels | EIRP/Avg | Rated Power(EIRP/Avg)<br>(dBm) (Worst Case) | Modulation<br>Technology |
|---------------------------------------------------------------|-----------------|----------|----------|---------------------------------------------|--------------------------|
| 802.11a/<br>802.11n_HT20/<br>802.11ac_VHT20/<br>802.11ax_HE20 | 5180~5240       | 4        | Avg      | 14.96 dBm                                   | OFDMA                    |
|                                                               | 5260~5320       | 4        | Avg      | 14.95 dBm                                   | OFDM                     |
|                                                               | 5500~5720       | 12       | Avg      | 14.94 dBm                                   | OFDM                     |
|                                                               | 5745-5825       | 5        | Avg      | 14.93 dBm                                   | OFDM                     |
|                                                               | 5845~5885       | 3        | EIRP     | 20.11 dBm                                   | OFDMA                    |

## 1.6 ISED

### WLAN 5 GHz for ISED (Slave)

| Wi-Fi                                                         | Frequency Range | Channels | EIRP/Avg | Rated Power(EIRP/Avg)<br>(dBm) (Worst Case) | Modulation<br>Technology |
|---------------------------------------------------------------|-----------------|----------|----------|---------------------------------------------|--------------------------|
| 802.11a/<br>802.11n_HT20/<br>802.11ac_VHT20/<br>802.11ax_HE20 | 5180~5240       | 4        | EIRP     | 20.16 dBm                                   | OFDMA                    |
|                                                               | 5260~5320       | 4        | Avg      | 14.95 dBm                                   | OFDM                     |
|                                                               | 5500~5700       | 11       | Avg      | 14.94 dBm                                   | OFDM                     |
|                                                               | 5720 (U-NII 2C) | 1        | Avg      | 13.66 dBm                                   | OFDM                     |
|                                                               | 5720 (U-NII 3)  | 1        | Avg      | 9.38 dBm                                    | OFDM                     |
|                                                               | 5745-5825       | 5        | Avg      | 14.93 dBm                                   | OFDM                     |
|                                                               | 5845 (U-NII 3)  | 1        | Avg      | 14.27 dBm                                   | OFDM                     |
|                                                               | 5845 (U-NII 4)  | 1        | EIRP     | 13.73 dBm                                   | OFDMA                    |
|                                                               | 5865~5885       | 2        | EIRP     | 20.11 dBm                                   | OFDMA                    |

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## 1.7 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 291074 D02 EMC Measurement v01

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

## 1.8 Test Facility

| Laboratory                                                                                                                                                                   | Test Site Address                                                                         | Test Site Name | FCC Designation number | IC CAB identifier |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702)                                                                                                                        | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1          | TW0027                 | TW3702            |
|                                                                                                                                                                              |                                                                                           | SAC 2          |                        |                   |
|                                                                                                                                                                              |                                                                                           | SAC 3          |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conduction 1   |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 1    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 2    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 3    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 4    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 5    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 6    |                        |                   |
|                                                                                                                                                                              | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | Conduction C   | TW0028                 |                   |
|                                                                                                                                                                              |                                                                                           | SAC C          |                        |                   |
|                                                                                                                                                                              |                                                                                           | SAC D          |                        |                   |
|                                                                                                                                                                              |                                                                                           | SAC G          |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted A    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted B    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted C    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted D    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted E    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted F    |                        |                   |
| Conducted G                                                                                                                                                                  |                                                                                           |                |                        |                   |
| <b>Note:</b> Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address. |                                                                                           |                |                        |                   |

## 1.9 Special Accessories

There are no special accessories used while test was conducted.

## 1.10 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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## 2.4 Measurement Results Explanation Example

### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

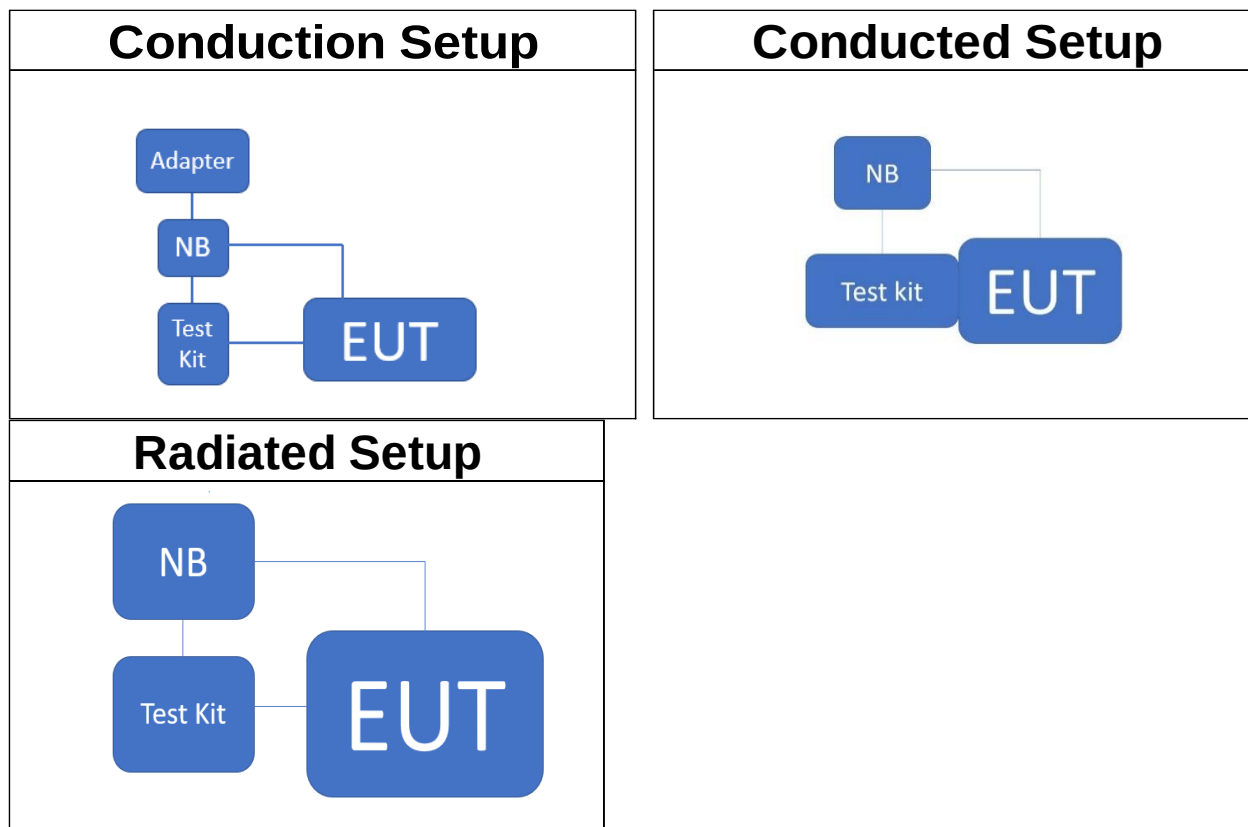
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### 2.4.2 For all conducted test items:

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

## 2.5 Test Configuration



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## 2.6 Control Unit(s)

| AC Power-Line Conducted Emission Test Site: Conduction C |             |              |                             |                           |                          |
|----------------------------------------------------------|-------------|--------------|-----------------------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                                           | MFR         | MODEL NUMBER | SERIAL NUMBER               | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| USB Cable                                                | FONG HUA    | USB-C18      | 128342                      | N/A                       | N/A                      |
| Test Kit                                                 | Waveshare   | FT232        | N/A                         | N/A                       | N/A                      |
| Notebook                                                 | Lenovo      | L440         | P0000367                    | N/A                       | N/A                      |
| NB Adapter                                               | Lenovo      | ADLX45DLC3A  | 8SSA10E75791L1CZ<br>76P12D3 | N/A                       | N/A                      |
| Conducted Emission Test Site: Conducted F                |             |              |                             |                           |                          |
| EQUIPMENT TYPE                                           | MFR         | MODEL NUMBER | SERIAL NUMBER               | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Notebook                                                 | Lenovo      | T14          | P0003332                    | N/A                       | N/A                      |
| Type C Cable                                             | MI          | SJX10ZM      | N/A                         | N/A                       | N/A                      |
| TestKit                                                  | Silicon Lab | CP2102       | N/A                         | N/A                       | N/A                      |
| Radiated Emission Test Site: SAC G                       |             |              |                             |                           |                          |
| EQUIPMENT TYPE                                           | MFR         | MODEL NUMBER | SERIAL NUMBER               | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| USB Cable                                                | FONG HUA    | USB-C18      | 128342                      | N/A                       | N/A                      |
| Test Kit                                                 | Waveshare   | FT232        | N/A                         | N/A                       | N/A                      |
| Notebook                                                 | Lenovo      | L440         | P0000367                    | N/A                       | N/A                      |

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### 3 SUMMARY OF TEST RESULT

| FCC Rules                        | ISED Rules                                                               | Description Of Test                            | Result    |
|----------------------------------|--------------------------------------------------------------------------|------------------------------------------------|-----------|
| §15.207                          | RSS-Gen §8.8                                                             | AC Power Line Conducted Emission               | Compliant |
| §15.407(e)                       | RSS-Gen §6.7                                                             | Emission Bandwidth                             | Compliant |
| §15.407(a)                       | RSS-247 §6.2.1~4 (1)<br>RSS-247 §6.2.5 (2)                               | Maximum Conducted Output Power                 | Compliant |
| §15.407(a)                       | RSS-247 §6.2.1~ 4 (1)<br>RSS-247 §6.2.5 (2)                              | Power Spectral Density                         | Compliant |
| §15.205<br>§15.209<br>§15.407(b) | RSS-Gen 8.10<br>RSS-247 §6.2.1~3 (2)<br>§6.2.4 (3)<br>RSS-247 §6.2.5 (3) | Undesirable Radiated Emissions                 | Compliant |
| §15.407(c)                       | RSS-247 §6.4                                                             | Transmission in case of Absence of Information | Compliant |
| §15.203                          | N/A                                                                      | Antenna Requirement                            | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

#### UNII-1 5150 MHz ~ 5250MHz

| 20MHz |                |
|-------|----------------|
| CH    | Freq.<br>(MHz) |
| 36    | 5180           |
| 40    | 5200           |
| 44    | 5220           |
| 48    | 5240           |

#### UNII-2A 5250 MHz ~ 5350MHz

| 20MHz |                |
|-------|----------------|
| CH    | Freq.<br>(MHz) |
| 52    | 5260           |
| 56    | 5280           |
| 60    | 5300           |
| 64    | 5320           |

#### UNII-2C 5470 MHz ~ 5725MHz

| 20MHz |                |
|-------|----------------|
| CH    | Freq.<br>(MHz) |
| 100   | 5500           |
| 104   | 5520           |
| 108   | 5540           |
| 112   | 5560           |
| 116   | 5580           |
| 120   | 5600           |
| 124   | 5620           |
| 128   | 5640           |
| 132   | 5660           |
| 136   | 5680           |
| 140   | 5700           |
| 144   | 5720           |

#### UNII-3 5725 MHz ~ 5850MHz

| 20MHz |                |
|-------|----------------|
| CH    | Freq.<br>(MHz) |
| 149   | 5745           |
| 153   | 5765           |
| 157   | 5785           |
| 161   | 5805           |
| 165   | 5825           |

#### UNII-4 5850 MHz ~ 5925MHz

| 20MHz |                |
|-------|----------------|
| CH    | Freq.<br>(MHz) |
| 169   | 5845           |
| 173   | 5865           |
| 177   | 5885           |

**Note: Operating in 5600~5650MHz is prohibited in Canada.**

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## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

| Modulation |           | Transmission Chain |     |  |     |  |     |  |     | Single Transmission Spatial |     | Multiple Transmission Spatial |     |
|------------|-----------|--------------------|-----|--|-----|--|-----|--|-----|-----------------------------|-----|-------------------------------|-----|
| V          | 802.11 a  | V                  | Ch0 |  | Ch1 |  | Ch2 |  | Ch3 | V                           | 1TX |                               | 1TX |
| V          | 802.11 n  | V                  | Ch0 |  | Ch1 |  | Ch2 |  | Ch3 | V                           | 1TX |                               | 1TX |
| V          | 802.11 ac | V                  | Ch0 |  | Ch1 |  | Ch2 |  | Ch3 | V                           | 1TX |                               | 1TX |
| V          | 802.11 ax | V                  | Ch0 |  | Ch1 |  | Ch2 |  | Ch3 | V                           | 1TX |                               | 1TX |
|            | 802.11 be |                    | Ch0 |  | Ch1 |  | Ch2 |  | Ch3 |                             | 1TX |                               | 1TX |

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

| CONDUCTED TEST |                      |                   |                 |            |                                                      |                  |              |
|----------------|----------------------|-------------------|-----------------|------------|------------------------------------------------------|------------------|--------------|
| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | DATA RATE (Mbps)                                     | ANTENNA PORT     |              |
| 802.11a        | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | 6                                                    | Ch0              |              |
|                | 5260~5320            | 52 to 64          | 52,60,64        |            |                                                      |                  |              |
|                | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                                                      |                  |              |
|                | 5745~5825            | 149 to 165        | 149,157,165     |            |                                                      |                  |              |
|                | 5845~5885            | 169 to 177        | 169,173,177     |            |                                                      |                  |              |
| 802.11n_HT20   | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | MCS0                                                 | Ch0              |              |
|                | 5260~5320            | 52 to 64          | 52,60,64        |            |                                                      |                  |              |
|                | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                                                      |                  |              |
|                | 5745~5825            | 149 to 165        | 149,157,165     |            |                                                      |                  |              |
|                | 5845~5885            | 169 to 177        | 169,173,177     |            |                                                      |                  |              |
| CONDUCTED TEST |                      |                   |                 |            |                                                      |                  |              |
| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | RU CONFIGURATION                                     | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11ax_HE20  | 5180~5240            | 36 to 48          | 36,44,48        | OFDMA      | FULL RU<br>26/0,26/8<br>52/37,52/40<br>106/53,106/54 | MCS0             | Ch0          |
|                | 5260~5320            | 52 to 64          | 52,60,64        |            |                                                      |                  |              |
|                | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                                                      |                  |              |
|                | 5745~5825            | 149 to 165        | 149,157,165     |            |                                                      |                  |              |
|                | 5845~5885            | 169 to 177        | 169,173,177     |            |                                                      |                  |              |

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| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) |                      |                   |                 |            |                                                      |                  |              |
|-----------------------------------------------|----------------------|-------------------|-----------------|------------|------------------------------------------------------|------------------|--------------|
| MODE                                          | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | DATA RATE (Mbps)                                     | ANTENNA PORT     |              |
| 802.11a                                       | 5180~5240            | 36 to 48          | 44              | OFDM       | 6                                                    | ch0              |              |
|                                               | 5260~5320            | 52 to 64          | 60              |            |                                                      |                  |              |
|                                               | 5500~5720            | 100 to 144        | 116             |            |                                                      |                  |              |
|                                               | 5745~5825            | 149 to 165        | 157             |            |                                                      |                  |              |
|                                               | 5845~5885            | 169 to 177        | 173             |            |                                                      |                  |              |
| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) |                      |                   |                 |            |                                                      |                  |              |
| MODE                                          | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | DATA RATE (Mbps)                                     | ANTENNA PORT     |              |
| 802.11a                                       | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | 6                                                    | ch0              |              |
|                                               | 5260~5320            | 52 to 64          | 52,60,64        |            |                                                      |                  |              |
|                                               | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                                                      |                  |              |
|                                               | 5745~5825            | 149 to 165        | 149,157,165     |            |                                                      |                  |              |
|                                               | 5845~5885            | 169 to 177        | 169,173,177     |            |                                                      |                  |              |
| 802.11n_HT20                                  | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | MCS0                                                 | ch0              |              |
|                                               | 5260~5320            | 52 to 64          | 52,60,64        |            |                                                      |                  |              |
|                                               | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                                                      |                  |              |
|                                               | 5745~5825            | 149 to 165        | 149,157,165     |            |                                                      |                  |              |
|                                               | 5845~5885            | 169 to 177        | 169,173,177     |            |                                                      |                  |              |
| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) |                      |                   |                 |            |                                                      |                  |              |
| MODE                                          | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | RU CONFIGURATION                                     | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11ax_HE20                                 | 5180~5240            | 36 to 48          | 36,44,48        | OFDMA      | FULL RU<br>26/0,26/8<br>52/37,52/40<br>106/53,106/54 | MCS0             | ch0          |
|                                               | 5260~5320            | 52 to 64          | 52,60,64        |            |                                                      |                  |              |
|                                               | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                                                      |                  |              |
|                                               | 5745~5825            | 149 to 165        | 149,157,165     |            |                                                      |                  |              |
|                                               | 5845~5885            | 169 to 177        | 169,173,177     |            |                                                      |                  |              |

# Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                       | Uncertainty |
|----------------------------------|-------------|
| AC Power Line Conducted Emission | +/- 1.54 dB |
| Output Power measurement         | +/- 0.97 dB |
| Emission Bandwidth               | +/- 1.38 Hz |
| Conducted emission measurement   | +/- 0.77 dB |
| Peak Power Density               | +/- 0.61 dB |
| Temperature                      | +/- 0.6 °C  |
| Humidity                         | +/- 3 %     |
| DC / AC Power Source             | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |     |         |                 |
|----------------------------------------------------|-----|---------|-----------------|
| Polarization: Vertical                             | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.15 dB | 30MHz - 1000MHz |
|                                                    | +/- | 3.43 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.86 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.02 dB | 30MHz - 1000MHz |
|                                                    | +/- | 3.43 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.86 dB | 18GHz - 40GHz   |
| Radiated Spurious Emission                         | +/- | 2 dB    | 33GHz-50GHz     |
|                                                    | +/- | 1.59 dB | 50GHz-60GHz     |
|                                                    | +/- | 1.7 dB  | 60GHz-90GHz     |
|                                                    | +/- | 1.64 dB | 90GHz-140GHz    |
|                                                    | +/- | 3.83 dB | 140GHz-220GHz   |

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction C |                                |               |                           |                           |                          |
|----------------------------------------------------------|--------------------------------|---------------|---------------------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                                           | MFR                            | MODEL NUMBER  | SERIAL NUMBER             | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Coaxial Cable                                            | EC Lab                         | RF-HY-CAB-250 | RF-HY-CAB-250-01          | 03/27/2024                | 03/26/2025               |
| EMI Test Receiver                                        | R&S                            | ESCI          | 101342                    | 04/29/2024                | 04/28/2025               |
| LISN                                                     | SCHWARZBECK<br>Mess-Elektronik | NSLK8127      | 973                       | 04/22/2024                | 04/21/2025               |
| Pulse Limiter                                            | EC Lab                         | VTSD 9561F-N  | 485                       | 03/27/2024                | 03/26/2025               |
| Test Software                                            | audix                          | e3            | E3 20923 SGS Ver.9<br>(C) | N.C.R                     | N.C.R                    |

### 6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted F |            |                        |               |                           |                          |
|-------------------------------------------|------------|------------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR        | MODEL NUMBER           | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Attenuator                                | Woken      | WATT-218FS-10          | RF12          | 11/14/2024                | 11/13/2025               |
| Attenuator                                | Woken      | WATT-218FS-10          | RF24          | 11/14/2024                | 11/13/2025               |
| DC Block                                  | Marvelous  | MVE6114                | RF41          | 11/14/2024                | 11/13/2025               |
| Power Meter                               | Anritsu    | ML2496A                | 2138002       | 08/28/2024                | 08/27/2025               |
| Power Sensor                              | Anritsu    | MA2411B                | 1911390       | 08/28/2024                | 08/27/2025               |
| Power Sensor                              | Anritsu    | MA2411B                | 1911398       | 08/28/2024                | 08/27/2025               |
| Spectrum Analyzer                         | KEYSIGHT   | N9010B                 | MY59071574    | 06/28/2024                | 06/27/2025               |
| Test Software                             | SGS Taiwan | Radio Test<br>Software | Ver.21        | N.C.R                     | N.C.R                    |

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### 6.3 Radiated Measurement

| Radiated Emission Test Site: SAC G |                      |                                                                                                                                             |                                                        |                           |                          |
|------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------|--------------------------|
| MENT TYPE                          | MFR                  | MODEL NUMBER                                                                                                                                | SERIAL NUMBER                                          | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| ite NSA                            | SGS                  | 966 chamber C                                                                                                                               | N/A                                                    | 03/02/2024                | 03/01/2025               |
| ite NSA                            | SGS                  | 966 chamber G                                                                                                                               | N/A                                                    | 03/30/2024                | 03/29/2025               |
| Active Loop<br>Antenna             | COM-POWER            | AL-130R                                                                                                                                     | 10160105                                               | 12/11/2024                | 12/10/2025               |
| Broadband<br>Antenna               | SCHWARZBECK          | VULB 9168                                                                                                                                   | 9168-300                                               | 11/06/2024                | 11/05/2025               |
| ial Cable                          | EMCI+Huber<br>Suhner | EMCCFD400-NM-<br>NM-<br>8000+EMCCFD400-<br>NM-NM-<br>5000+SUCOFLEX100<br>+EMC104-SM-SM-<br>2000+EMC104-SM-<br>SM-8000+EMC104-<br>SM-SM-5000 | 210216+210217+84<br>103701/15+160105+<br>210217+210220 | 11/14/2024                | 11/13/2025               |
| lass Filter                        | WI                   | WHKX7.0/18G-8SS-<br>SN46                                                                                                                    | RF183                                                  | 11/14/2024                | 11/13/2025               |
| Antenna                            | RF SPIN              | DRH18-E                                                                                                                                     | 210105A18E                                             | 04/12/2024                | 04/11/2025               |
| Antenna                            | Schwarzbeck          | BBHA9170                                                                                                                                    | 184                                                    | 12/20/2024                | 12/19/2025               |
| .mplifier                          | EMC Instruments      | EMC118A45SE                                                                                                                                 | 980815                                                 | 05/08/2024                | 05/07/2025               |
| .mplifier                          | EMC Instruments      | EMC184945SEE                                                                                                                                | 980938                                                 | 11/14/2024                | 11/13/2025               |
| .mplifier                          | EMC Instruments      | EMC330N                                                                                                                                     | 980781                                                 | 03/13/2024                | 03/12/2025               |
| m Analyzer                         | KEYSIGHT             | N9010B                                                                                                                                      | MY59071574                                             | 06/28/2024                | 06/27/2025               |
| oftware                            | audix                | e3                                                                                                                                          | E3 20923 SGS Ver.9<br>( C )                            | N.C.R                     | N.C.R                    |

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

| Frequency range<br>MHz | Limits<br>(dBuV) |          |
|------------------------|------------------|----------|
|                        | Quasi-peak       | Average  |
| 0.15 to 0.50           | 66 to 56         | 56 to 46 |
| 0.50 to 5              | 56               | 46       |
| 5 to 30                | 60               | 50       |

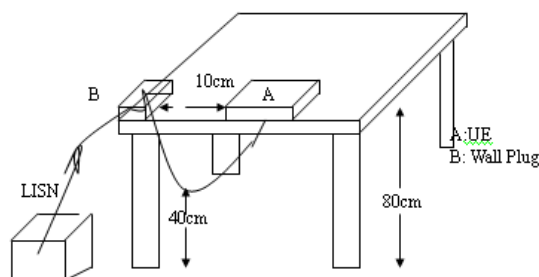
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

### 7.3 Test SET-UP



### 7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

### 7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closest to the limit.

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2409002669ER

Test Site :Conduction C

Test Mode :5G

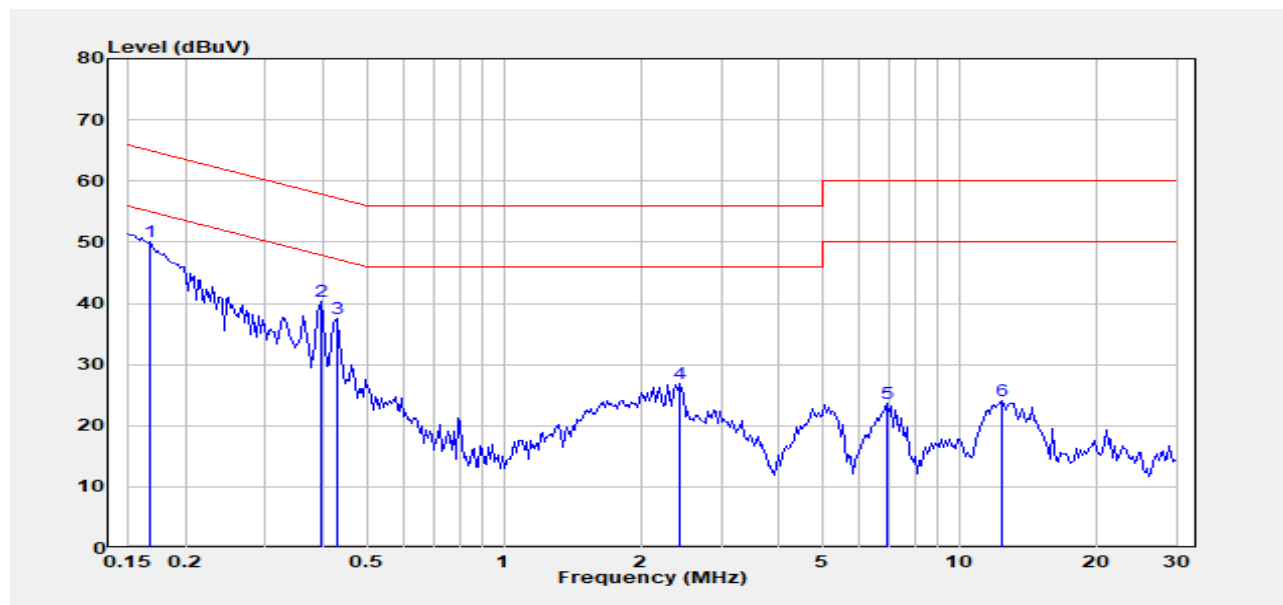
Test Date :2025-02-18

Power :120V/60Hz

Temp./Humi :21.5°C/53%

Probe :L1

Engineer :Temo Chen



| Freq.  | Detector | Spectrum      | Factor | Actual | Limit | Margin |
|--------|----------|---------------|--------|--------|-------|--------|
| MHz    | Mode     | Reading Level |        | FS     |       |        |
|        | PK/QP/AV | dBμV          | dB     | dBμV   | dBμV  | dB     |
| 0.167  | Peak     | 39.45         | 10.65  | 50.10  | 65.12 | -15.02 |
| 0.398  | Peak     | 29.74         | 10.62  | 40.36  | 57.90 | -17.54 |
| 0.433  | Peak     | 26.94         | 10.62  | 37.55  | 57.20 | -19.64 |
| 2.435  | Peak     | 15.97         | 10.81  | 26.78  | 56.00 | -29.22 |
| 6.951  | Peak     | 12.65         | 10.96  | 23.61  | 60.00 | -36.39 |
| 12.449 | Peak     | 13.10         | 11.02  | 24.13  | 60.00 | -35.87 |

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Report Number :TERF2409002669ER

Test Site :Conduction C

Test Mode :5G

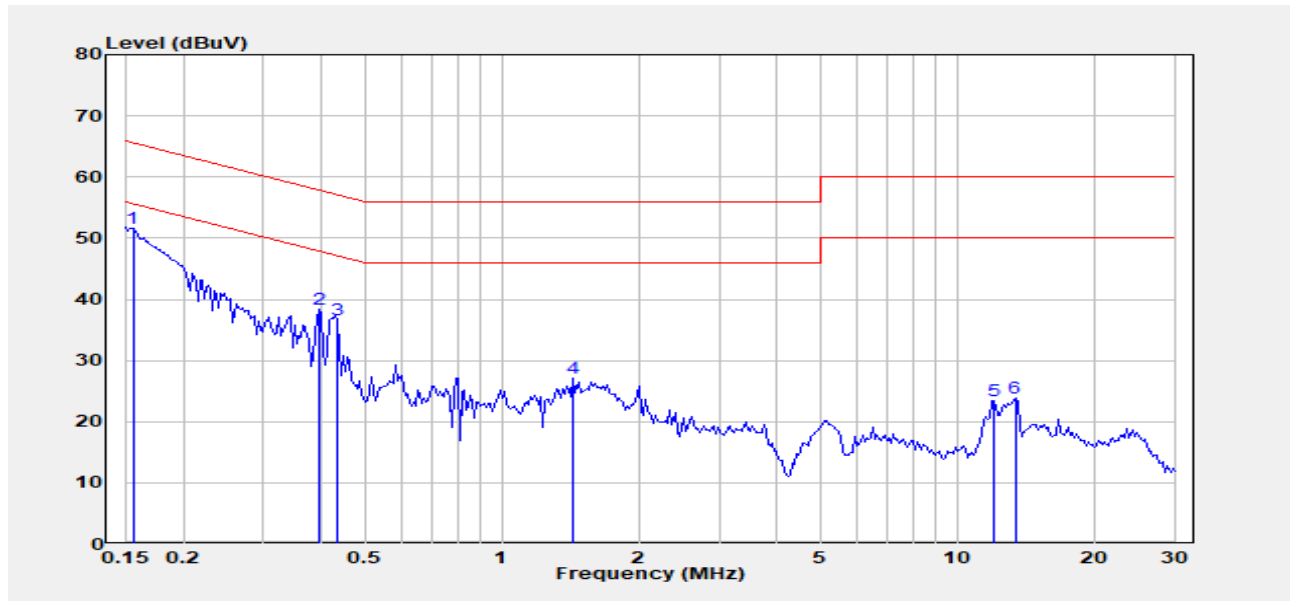
Test Date :2025-02-18

Power :120V/60Hz

Temp./Humi :21.5°C/53%

Probe :N

Engineer :Temo Chen



| Freq.  | Detector | Spectrum      | Factor | Actual     | Limit      | Margin |
|--------|----------|---------------|--------|------------|------------|--------|
| MHz    | Mode     | Reading Level |        | FS         |            |        |
|        | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V | dB $\mu$ V | dB     |
| 0.155  | Peak     | 40.92         | 10.66  | 51.58      | 65.74      | -14.16 |
| 0.398  | Peak     | 27.68         | 10.61  | 38.29      | 57.90      | -19.61 |
| 0.437  | Peak     | 26.06         | 10.61  | 36.66      | 57.11      | -20.45 |
| 1.433  | Peak     | 16.33         | 10.71  | 27.04      | 56.00      | -28.96 |
| 12.060 | Peak     | 12.41         | 11.01  | 23.42      | 60.00      | -36.58 |
| 13.408 | Peak     | 12.72         | 11.04  | 23.76      | 60.00      | -36.24 |

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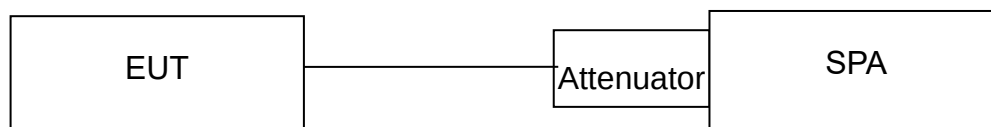
## 8 EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3 & UNII-4.

### 8.2 Test Setup



### 8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
  - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.& 5.850~5.895GHz
  - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3\*RBW, Span = large enough to capture all products of the modulation process, Detector=Peak, Sweep=auto
  - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth: Set the spectrum analyzer as RBW = 1%, VBW = 3\*RBW, Span = large enough to capture all products of the modulation process, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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## 8.4 Measurement Result

### 8.4.1 FCC Occupied Bandwidth

#### 802.11a\_Ch0

| Freq.<br>(MHz) | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|---------------------|--------------------|
| 5180           | 22.04               | 13.430             |
| 5220           | 21.96               | 13.420             |
| 5240           | 20.45               | 13.110             |
| 5260           | 20.57               | 13.130             |
| 5300           | 19.92               | 12.990             |
| 5320           | 22.49               | 13.520             |
| 5500           | 20.58               | 13.130             |
| 5580           | 20.05               | 13.020             |
| 5700           | 22.51               | 13.520             |
| 5720(U-NII 2C) | 15.08               | 11.780             |
| 5720(U-NII 3)  | 5.08                | 7.060              |

#### 802.11a\_Ch0

| Freq.<br>(MHz) | 6dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|--------------------|--------------------|
| 5745           | 14.66              | 11.660             |
| 5785           | 16.36              | 12.140             |
| 5825           | 10.73              | 10.310             |
| 5845(U-NII 3)  | 11.46              | 10.590             |
| 5845(U-NII 4)  | 1.46               | 1.640              |
| 5865           | 13.04              | 11.150             |
| 5885           | 13.54              | 11.320             |

#### 802.11a\_Ch0

| Freq.<br>(MHz) | Measured<br>Freq.<br>(MHz) | Limit<br>(MHz) |
|----------------|----------------------------|----------------|
| 5240           | 5248.291235                | < 5250         |
| 5745           | 5736.827810                | > 5725         |

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## 802.11n\_HT20\_Ch0

| Freq.<br>(MHz) | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|---------------------|--------------------|
| 5180           | 24.63               | 13.910             |
| 5220           | 21.78               | 13.380             |
| 5240           | 23.72               | 13.750             |
| 5260           | 22.89               | 13.600             |
| 5300           | 21.36               | 13.300             |
| 5320           | 23.98               | 13.800             |
| 5500           | 22.34               | 13.490             |
| 5580           | 22.70               | 13.560             |
| 5700           | 22.49               | 13.520             |
| 5720(U-NII 2C) | 16.40               | 12.150             |
| 5720(U-NII 3)  | 6.40                | 8.060              |

## 802.11n\_HT20\_Ch0

| Freq.<br>(MHz) | 6dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|--------------------|--------------------|
| 5745           | 17.60              | 12.460             |
| 5785           | 14.70              | 11.670             |
| 5825           | 17.61              | 12.460             |
| 5845(U-NII 3)  | 13.80              | 11.400             |
| 5845(U-NII 4)  | 3.80               | 5.790              |
| 5865           | 17.53              | 12.440             |
| 5885           | 16.60              | 12.200             |

## 802.11n\_HT20\_Ch0

| Freq.<br>(MHz) | Measured<br>Freq.<br>(MHz) | Limit<br>(MHz) |
|----------------|----------------------------|----------------|
| 5240           | 5248.84197                 | < 5250         |
| 5745           | 5736.19831                 | > 5725         |

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## 802.11ax\_HE20\_Ch0

| Freq.<br>(MHz)     | RU config | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|-----------|---------------------|--------------------|
| 5180               | full      | 22.53               | 13.530             |
| 5220               | full      | 21.53               | 13.330             |
| 5240               | full      | 22.27               | 13.480             |
| 5260               | full      | 22.04               | 13.430             |
| 5300               | full      | 22.06               | 13.440             |
| 5320               | full      | 22.88               | 13.590             |
| 5500               | full      | 22.00               | 13.420             |
| 5580               | full      | 22.05               | 13.430             |
| 5700               | full      | 21.70               | 13.360             |
| 5720<br>(U-NII 2C) | full      | 16.31               | 12.120             |
| 5720<br>(U-NII 3)  | full      | 6.31                | 8.000              |

## 802.11ax\_HE20\_Ch0

| Freq.<br>(MHz)    | RU config | 6dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|-------------------|-----------|--------------------|--------------------|
| 5745              | full      | 18.89              | 12.760             |
| 5785              | full      | 18.14              | 12.590             |
| 5825              | full      | 18.18              | 12.600             |
| 5845<br>(U-NII 3) | full      | 14.36              | 11.570             |
| 5845<br>(U-NII 4) | full      | 4.36               | 6.390              |
| 5865              | full      | 17.35              | 12.390             |
| 5885              | full      | 17.98              | 12.550             |

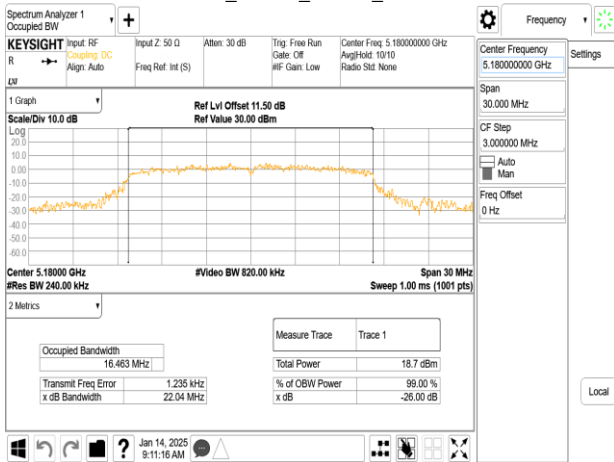
## 802.11ax\_HE20\_Ch0

| Freq.<br>(MHz) | Measured<br>Freq.<br>(MHz) | Limit<br>(MHz) |
|----------------|----------------------------|----------------|
| 5240           | 5249.42089                 | < 5250         |
| 5745           | 5735.60235                 | > 5725         |

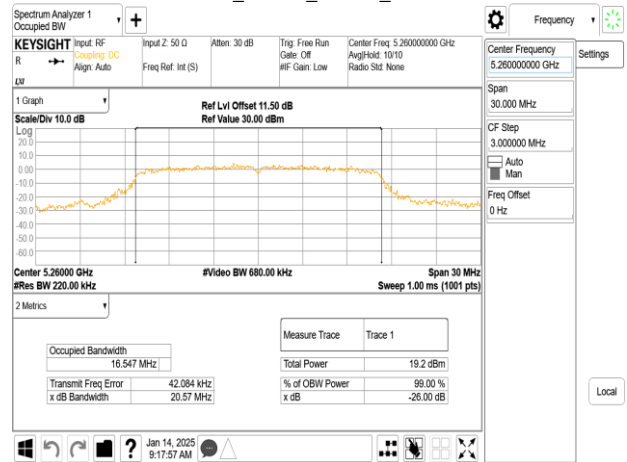
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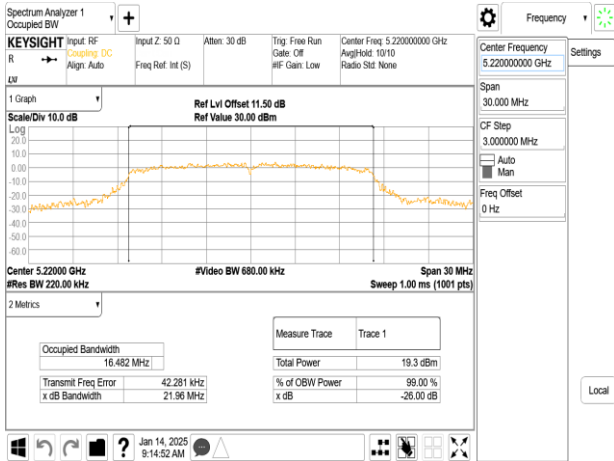
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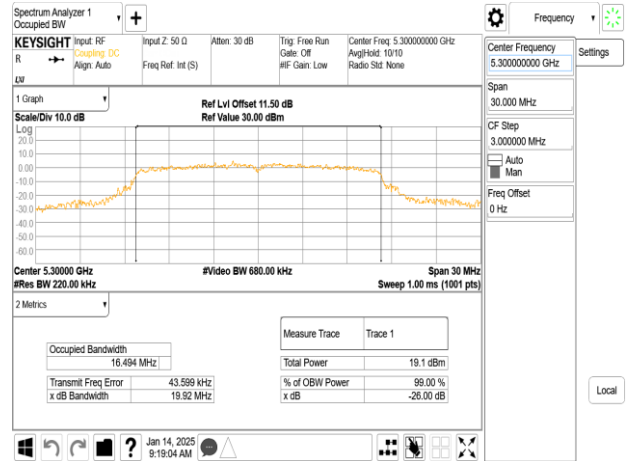
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802.11a\_20MHz\_Chain0\_5220MHz



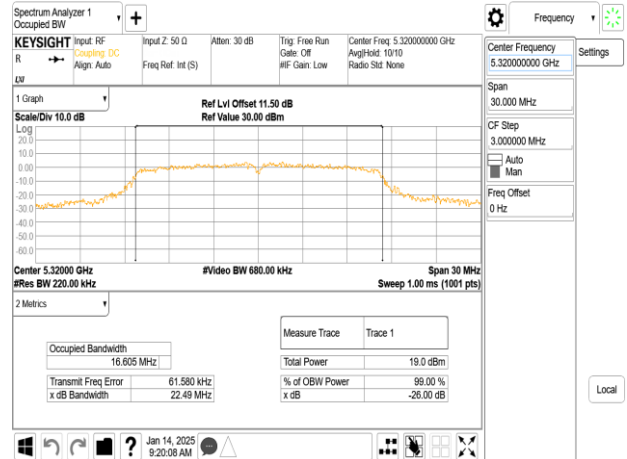
802.11a\_20MHz\_Chain0\_5300MHz



802.11a\_20MHz\_Chain0\_5240MHz



802.11a\_20MHz\_Chain0\_5320MHz

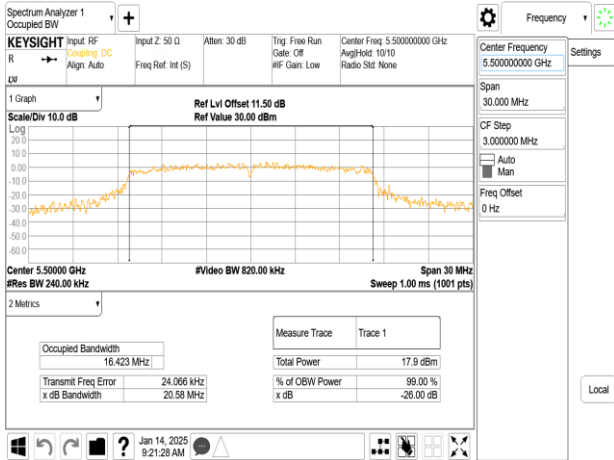


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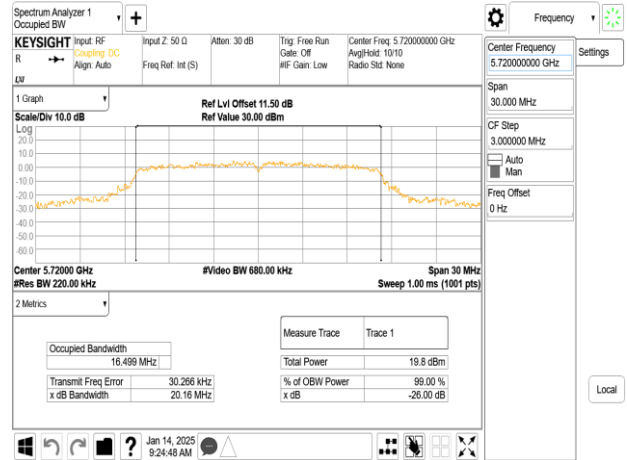
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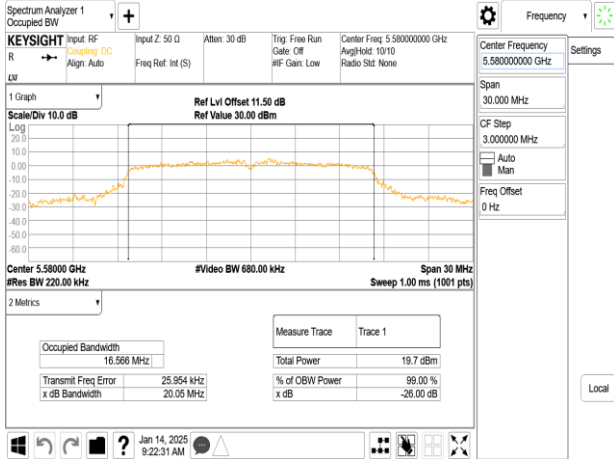
802.11a\_20MHz\_Chain0\_5500MHz



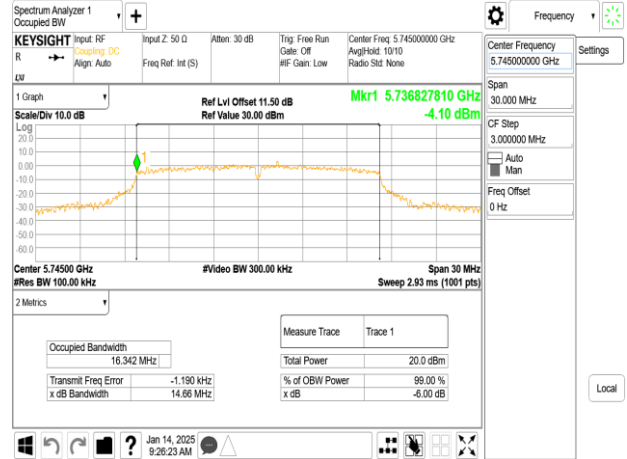
802.11a\_20MHz\_Chain0\_5720MHz



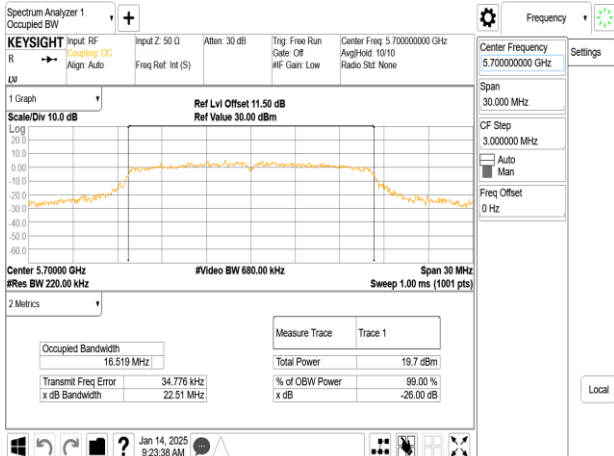
802.11a\_20MHz\_Chain0\_5580MHz



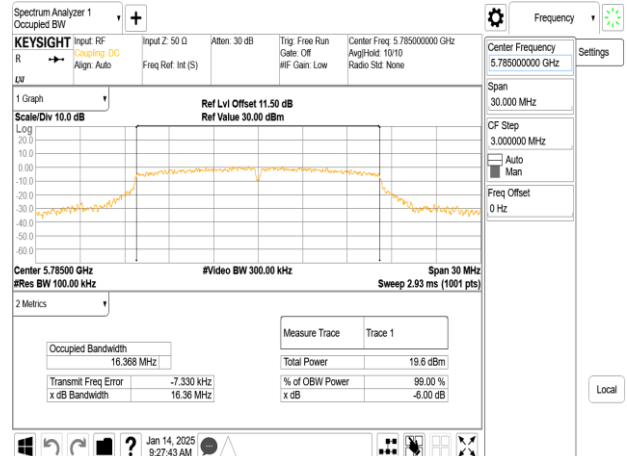
802.11a\_20MHz\_Chain0\_5745MHz



802.11a\_20MHz\_Chain0\_5700MHz



802.11a\_20MHz\_Chain0\_5785MHz

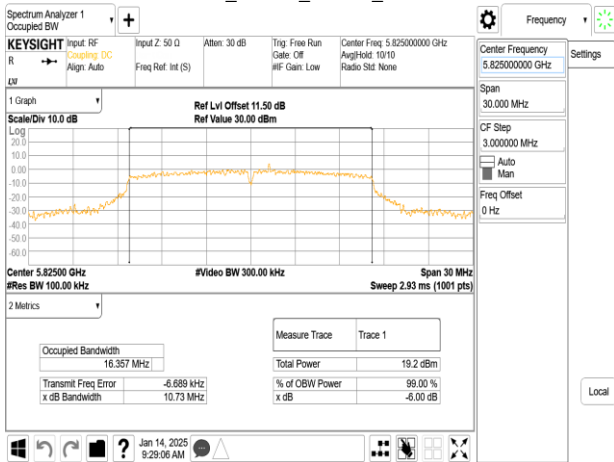


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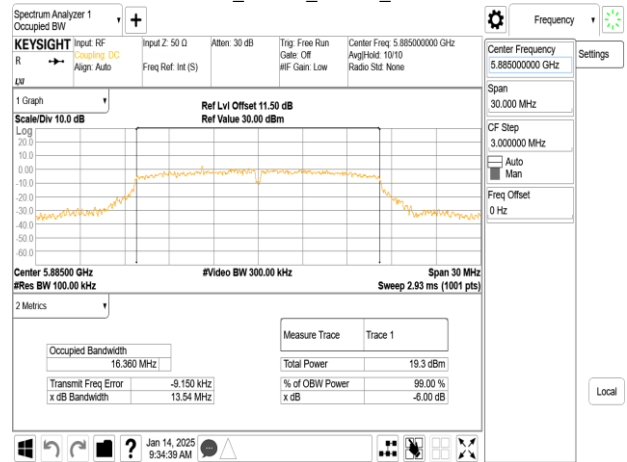
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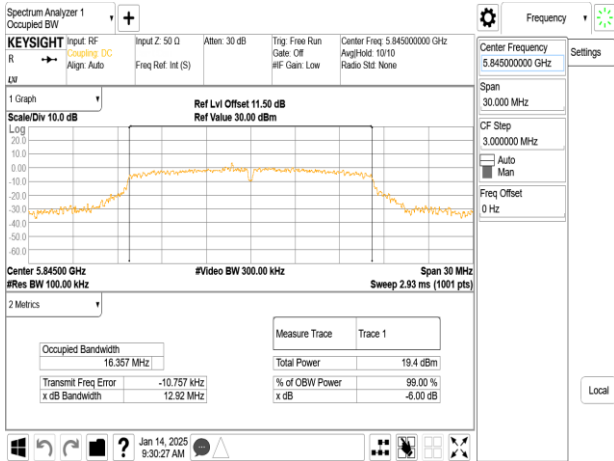
802.11a\_20MHz\_Chain0\_5825MHz



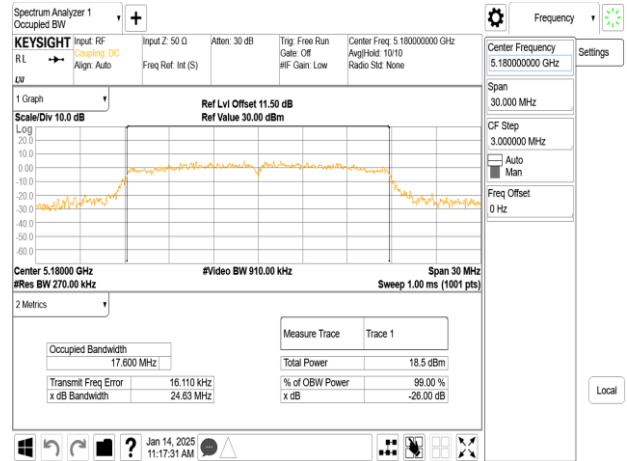
802.11a\_20MHz\_Chain0\_5885MHz



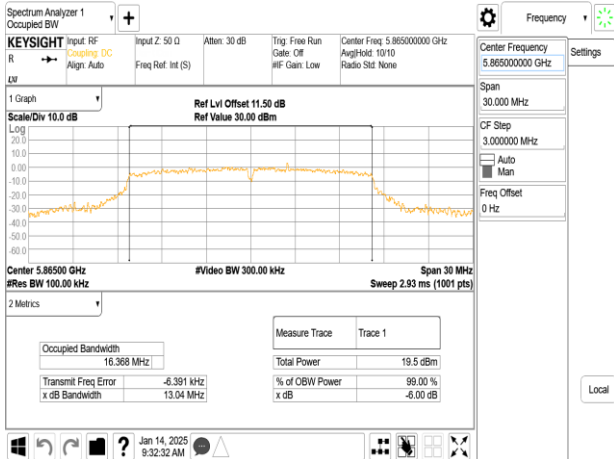
802.11a\_20MHz\_Chain0\_5845MHz



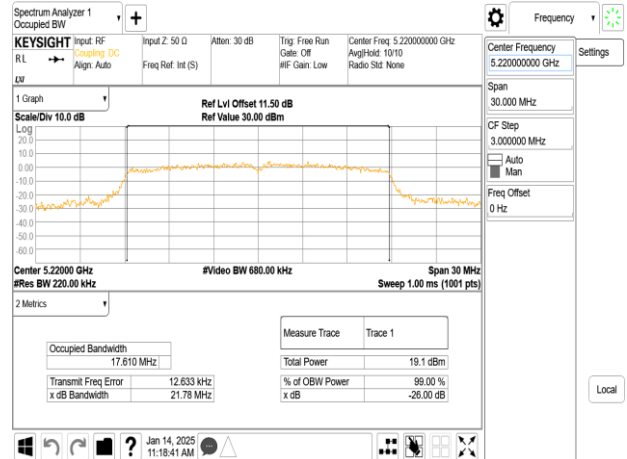
802.11n\_20MHz\_Chain0\_5180MHz



802.11a\_20MHz\_Chain0\_5865MHz



802.11n\_20MHz\_Chain0\_5220MHz



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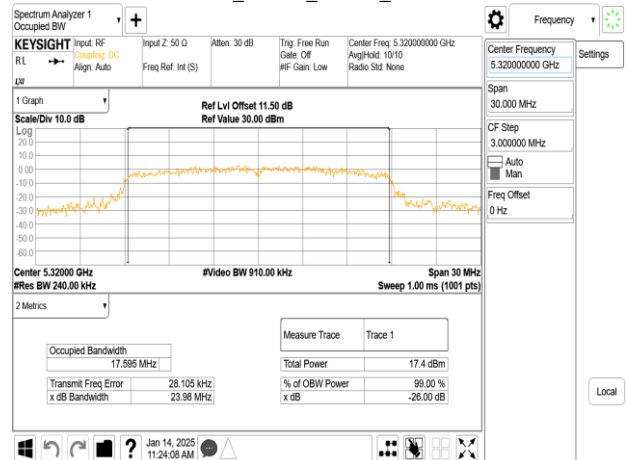
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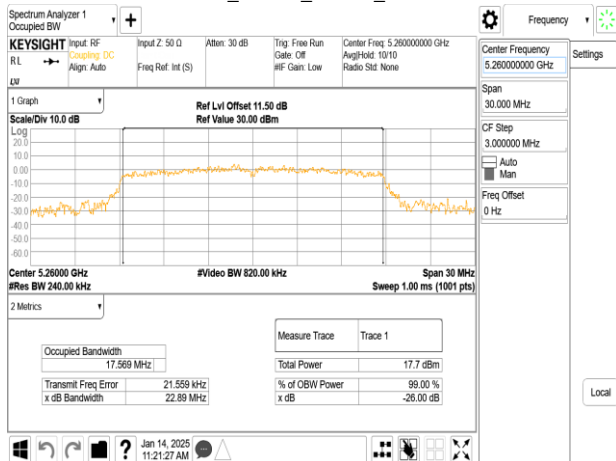
802.11n\_20MHz\_Chain0\_5240MHz



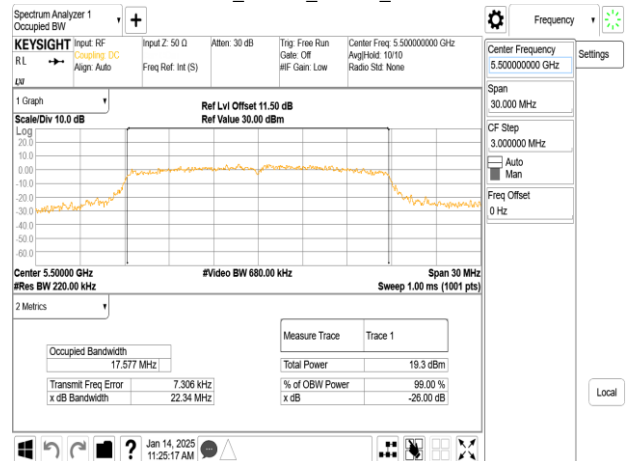
802.11n\_20MHz\_Chain0\_5320MHz



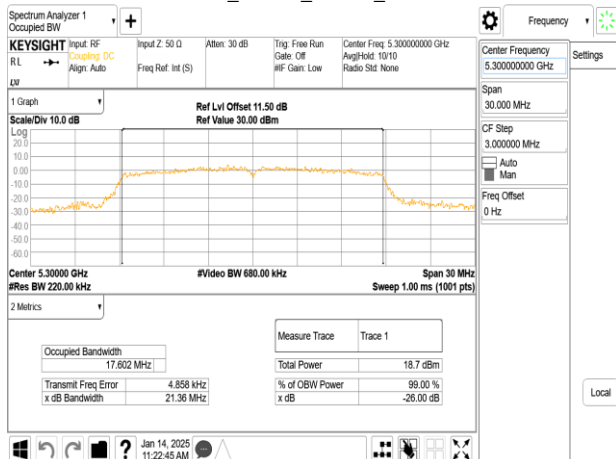
802.11n\_20MHz\_Chain0\_5260MHz



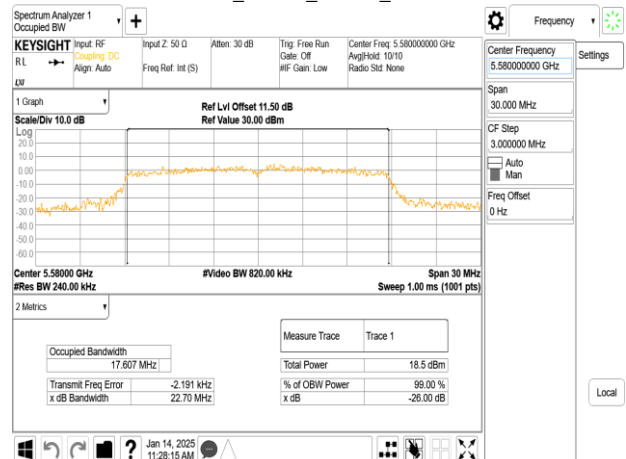
802.11n\_20MHz\_Chain0\_5500MHz



802.11n\_20MHz\_Chain0\_5300MHz



802.11n\_20MHz\_Chain0\_5580MHz

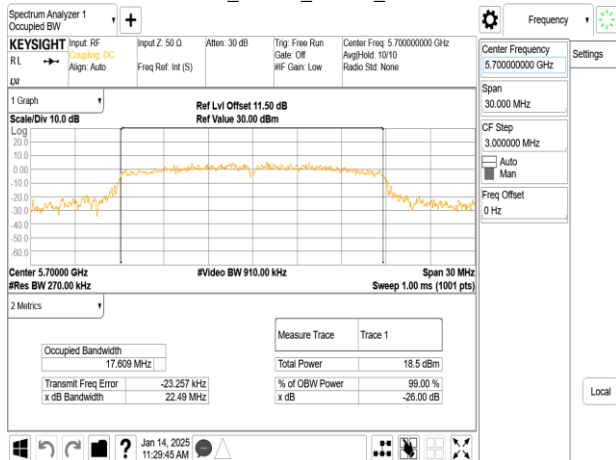


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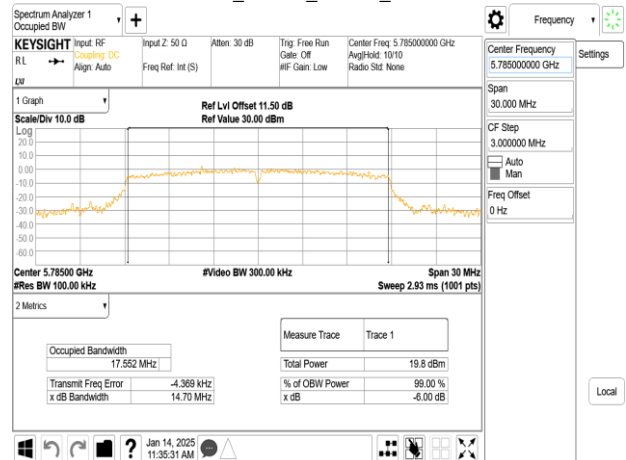
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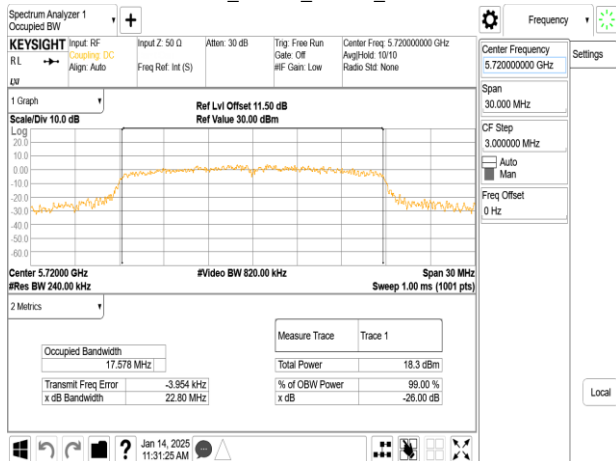
802.11n\_20MHz\_Chain0\_5700MHz



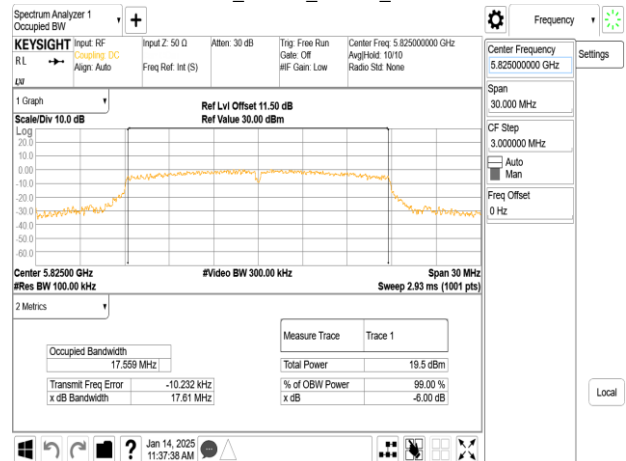
802.11n\_20MHz\_Chain0\_5785MHz



802.11n\_20MHz\_Chain0\_5720MHz



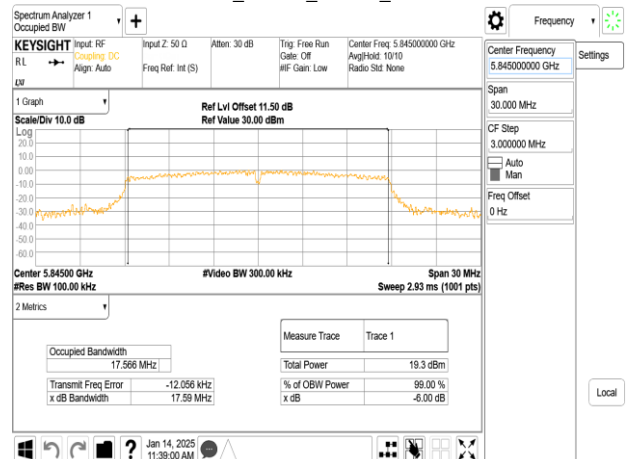
802.11n\_20MHz\_Chain0\_5825MHz



802.11n\_20MHz\_Chain0\_5745MHz



802.11n\_20MHz\_Chain0\_5845MHz

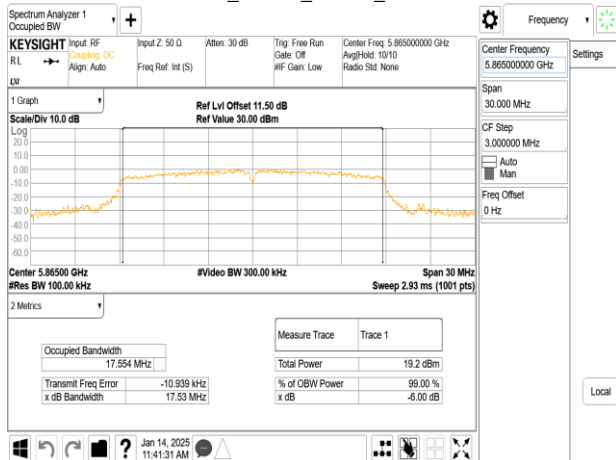


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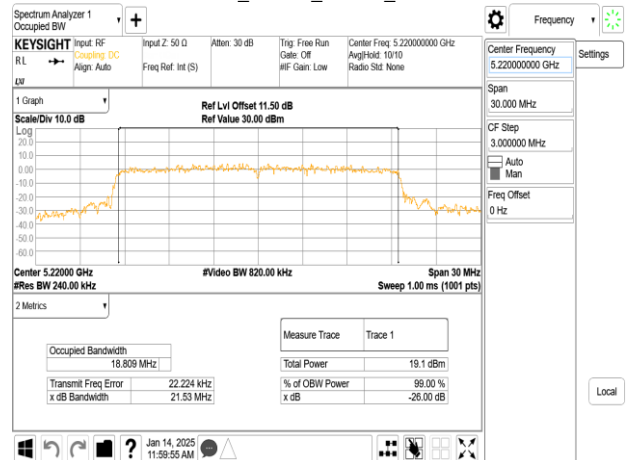
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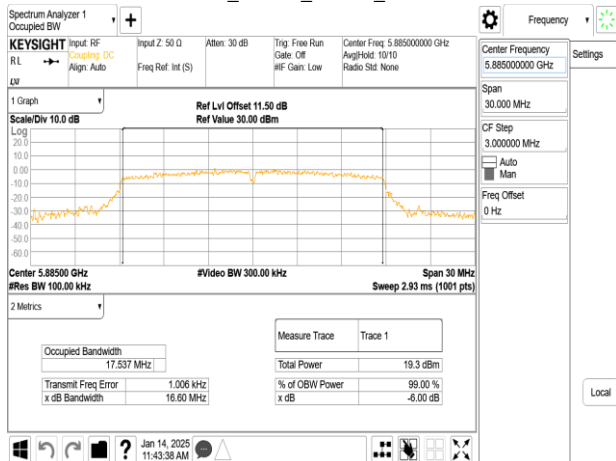
802.11n\_20MHz\_Chain0\_5865MHz



802.11ax\_20MHz\_Chain0\_5220MHz



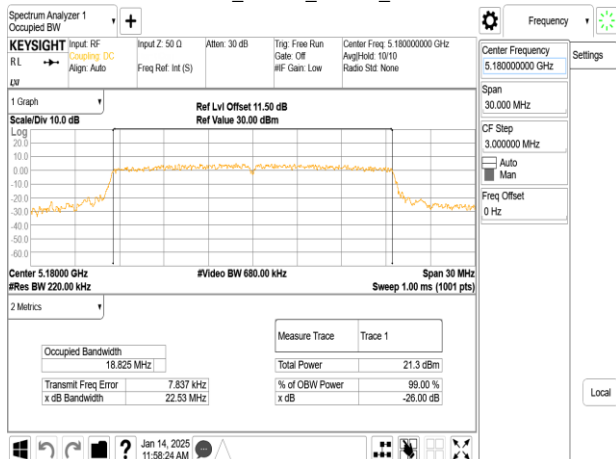
802.11n\_20MHz\_Chain0\_5885MHz



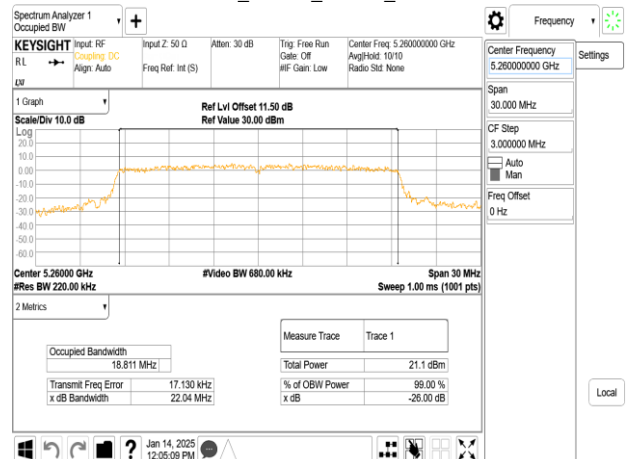
802.11ax\_20MHz\_Chain0\_5240MHz



802.11ax\_20MHz\_Chain0\_5180MHz



802.11ax\_20MHz\_Chain0\_5260MHz

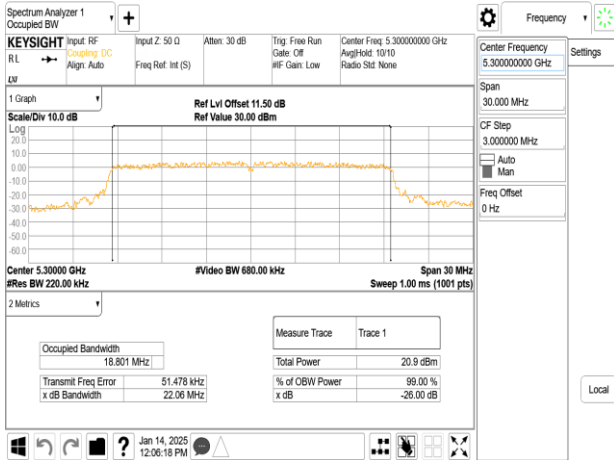


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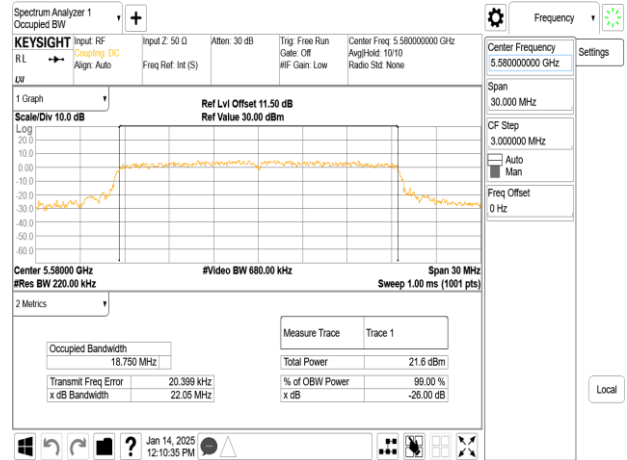
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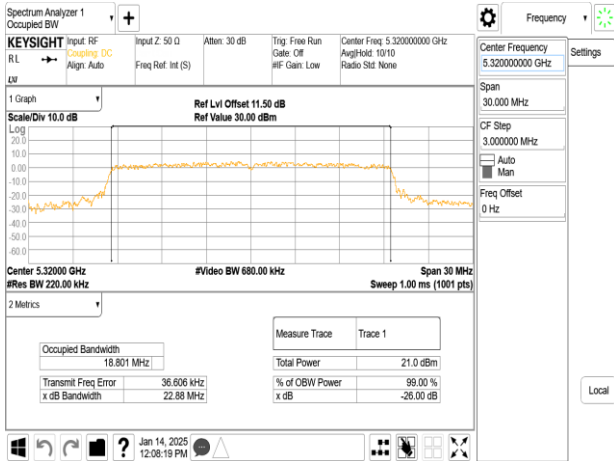
802.11ax\_20MHz\_Chain0\_5300MHz



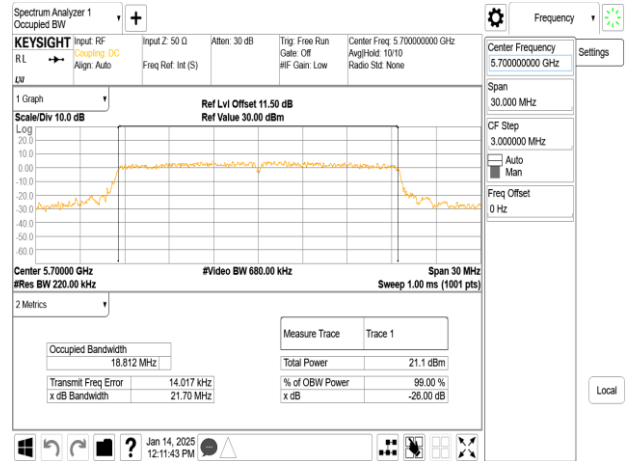
802.11ax\_20MHz\_Chain0\_5580MHz



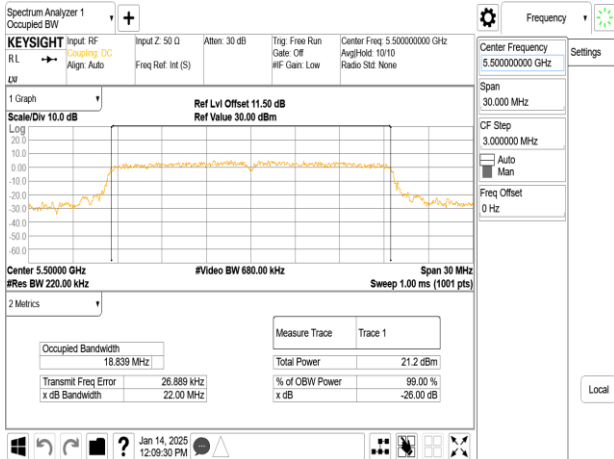
802.11ax\_20MHz\_Chain0\_5320MHz



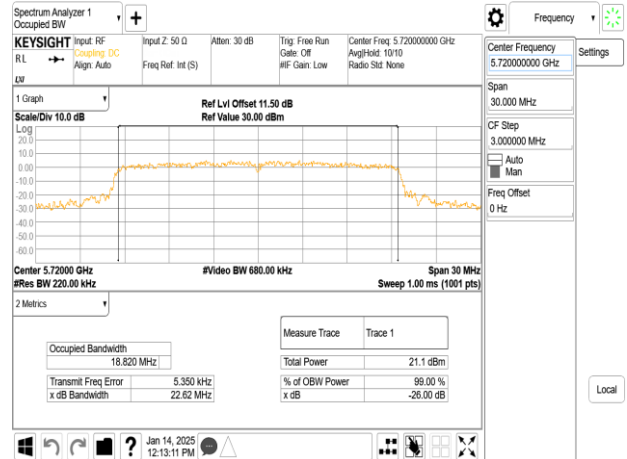
802.11ax\_20MHz\_Chain0\_5700MHz



802.11ax\_20MHz\_Chain0\_5500MHz



802.11ax\_20MHz\_Chain0\_5720MHz



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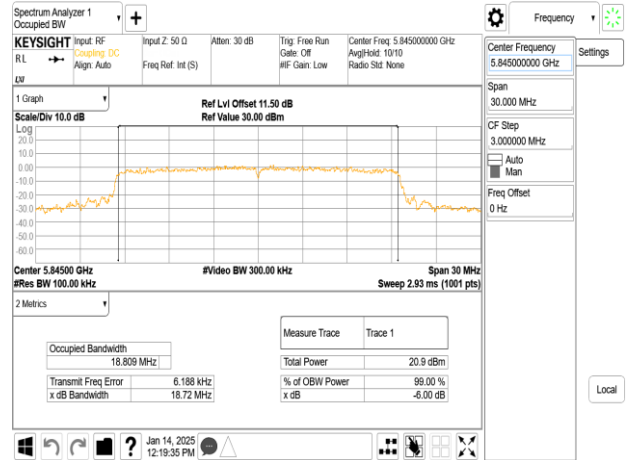
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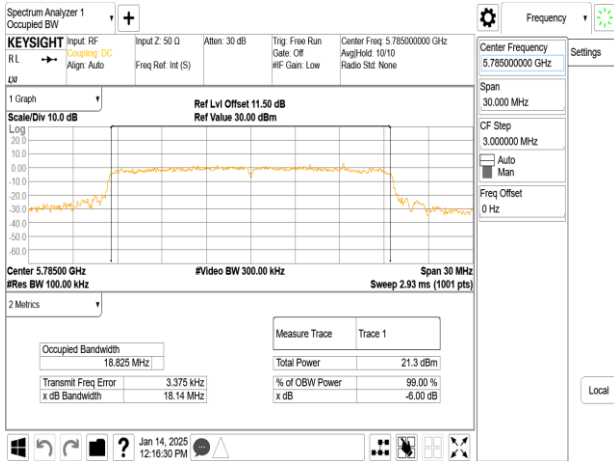
802.11ax\_20MHz\_Chain0\_5745MHz



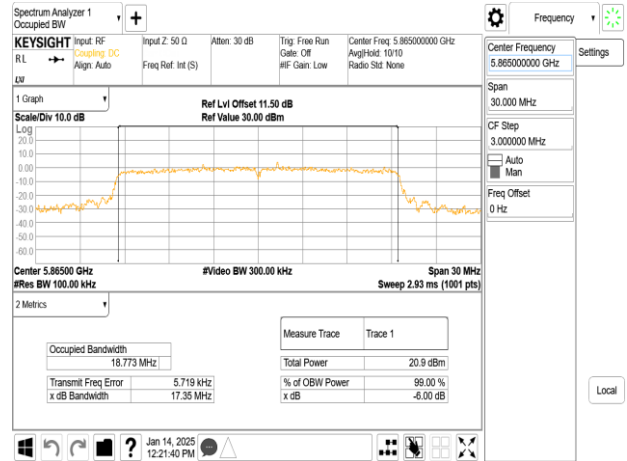
802.11ax\_20MHz\_Chain0\_5845MHz



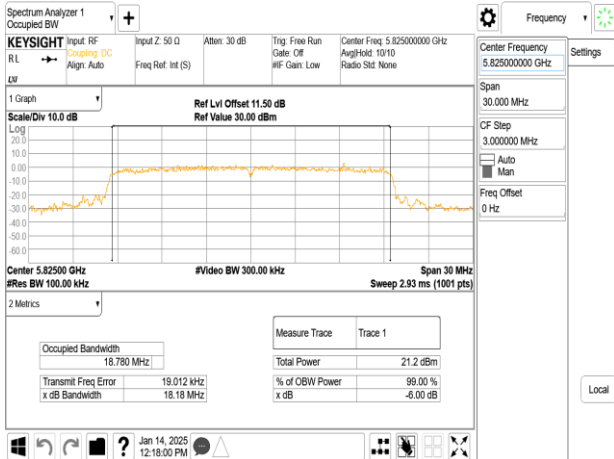
802.11ax\_20MHz\_Chain0\_5785MHz



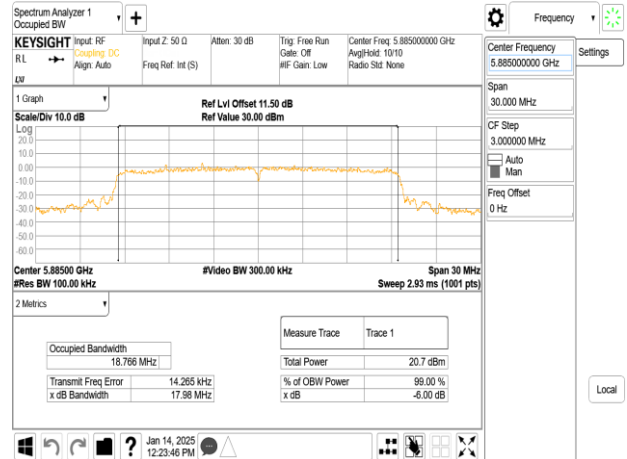
802.11ax\_20MHz\_Chain0\_5865MHz



802.11ax\_20MHz\_Chain0\_5825MHz



802.11ax\_20MHz\_Chain0\_5885MHz



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## 8.4.2 ISED Occupied Bandwidth

### 802.11a\_Ch0

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|--------------------|--------------------|
| 5180               | 16.515             | 12.180             |
| 5220               | 16.484             | 12.170             |
| 5240               | 16.459             | 12.160             |
| 5260               | 16.472             | 12.170             |
| 5300               | 16.505             | 12.180             |
| 5320               | 16.539             | 12.190             |
| 5500               | 16.484             | 12.170             |
| 5580               | 16.491             | 12.170             |
| 5700               | 16.516             | 12.180             |
| 5720(U-NII 2C)     | 13.244             | 11.220             |
| 5720(U-NII 3)      | 3.244              | 5.110              |

### 802.11a\_Ch0

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 6dB<br>BW<br>(MHz) |
|--------------------|--------------------|--------------------|
| 5745               | 16.447             | 15.740             |
| 5785               | 16.445             | 15.800             |
| 5825               | 16.451             | 15.630             |
| 5845(U-NII 3)      | 13.253             | 13.050             |
| 5845(U-NII 4)      | 3.253              | 3.050              |
| 5865               | 16.459             | 16.000             |
| 5885               | 16.418             | 15.910             |

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## 802.11n\_HT20\_Ch0

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|--------------------|--------------------|
| 5180               | 17.644             | 12.470             |
| 5220               | 17.591             | 12.450             |
| 5240               | 17.602             | 12.460             |
| 5260               | 17.601             | 12.460             |
| 5300               | 17.578             | 12.450             |
| 5320               | 17.600             | 12.460             |
| 5500               | 17.575             | 12.450             |
| 5580               | 17.615             | 12.460             |
| 5700               | 17.593             | 12.450             |
| 5720(U-NII 2C)     | 13.803             | 11.400             |
| 5720(U-NII 3)      | 3.803              | 5.800              |

## 802.11n\_HT20\_Ch0

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 6dB<br>BW<br>(MHz) |
|--------------------|--------------------|--------------------|
| 5745               | 17.549             | 17.21              |
| 5785               | 17.561             | 16.05              |
| 5825               | 17.594             | 16.93              |
| 5845(U-NII 3)      | 13.785             | 13.400             |
| 5845(U-NII 4)      | 3.785              | 3.400              |
| 5865               | 17.578             | 17.050             |
| 5885               | 17.555             | 17.110             |

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台灣檢驗科技股份有限公司

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## 802.11ax\_HE20\_Ch0

| Frequency (MHz) | RU config | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|-----------|--------------|-----------------|
| 5180            | full      | 18.821       | 12.750          |
| 5220            | full      | 18.792       | 12.740          |
| 5240            | full      | 18.818       | 12.750          |
| 5260            | full      | 18.787       | 12.740          |
| 5300            | full      | 18.806       | 12.740          |
| 5320            | full      | 18.808       | 12.740          |
| 5500            | full      | 18.790       | 12.740          |
| 5580            | full      | 18.824       | 12.750          |
| 5700            | full      | 18.790       | 12.740          |
| 5720(U-NII 2C)  | full      | 14.408       | 11.590          |
| 5720(U-NII 3)   | full      | 4.408        | 6.440           |

## 802.11ax\_HE20\_Ch0

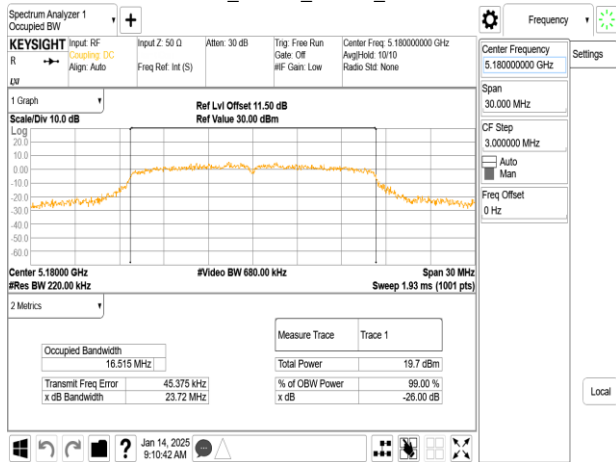
| Frequency (MHz) | RU config | 99% BW (MHz) | 6dB BW (MHz) |
|-----------------|-----------|--------------|--------------|
| 5745            | full      | 18.800       | 18.82        |
| 5785            | full      | 18.796       | 18.77        |
| 5825            | full      | 18.793       | 18.68        |
| 5845(U-NII 3)   | full      | 14.405       | 14.265       |
| 5845(U-NII 4)   | full      | 4.405        | 4.265        |
| 5865            | full      | 18.813       | 18.910       |
| 5885            | full      | 18.822       | 18.840       |

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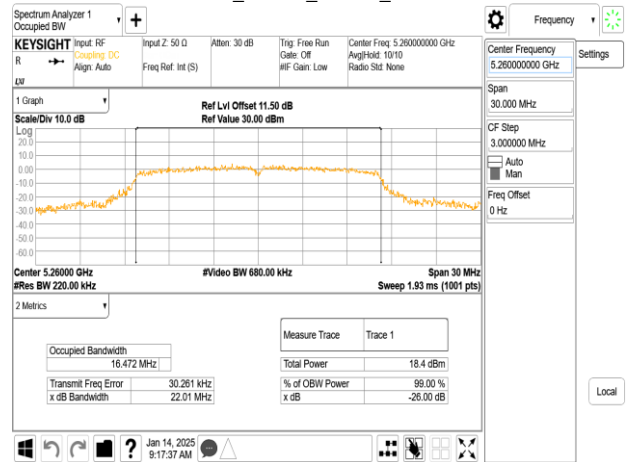
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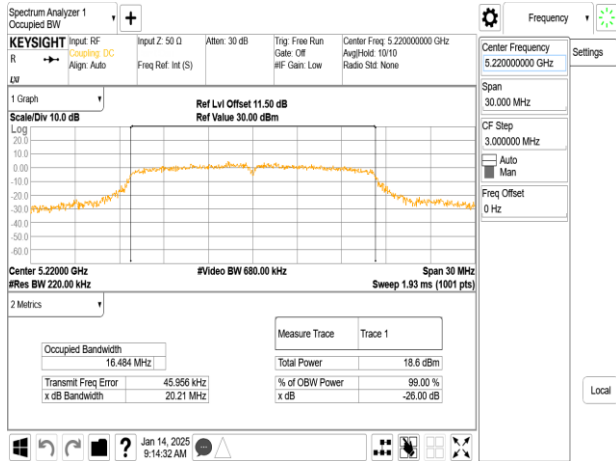
802.11a\_20MHz\_Chain0\_5180MHz



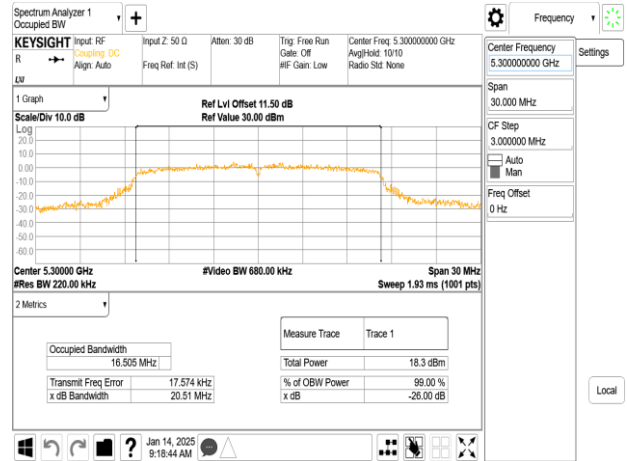
802.11a\_20MHz\_Chain0\_5260MHz



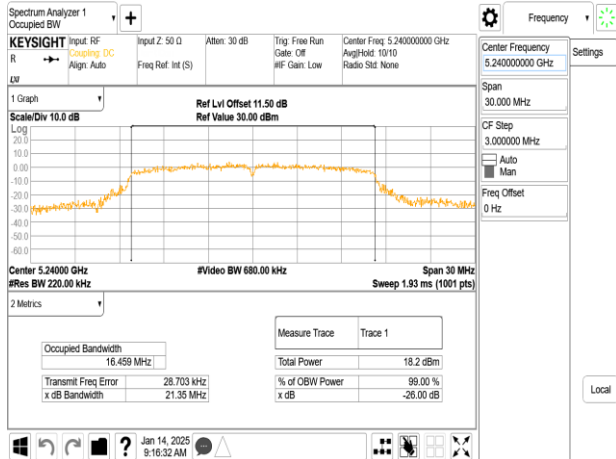
802.11a\_20MHz\_Chain0\_5220MHz



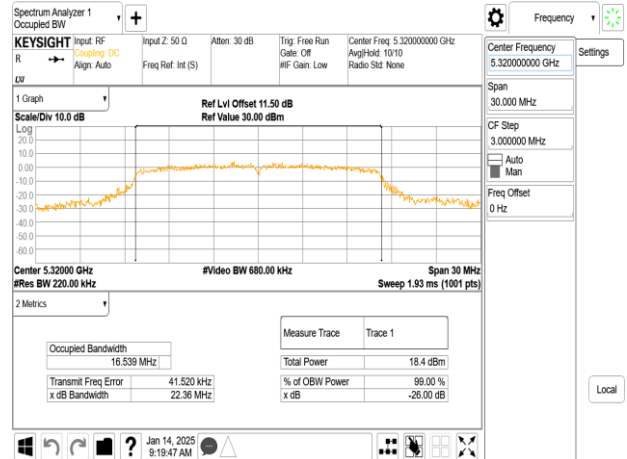
802.11a\_20MHz\_Chain0\_5300MHz



802.11a\_20MHz\_Chain0\_5240MHz



802.11a\_20MHz\_Chain0\_5320MHz

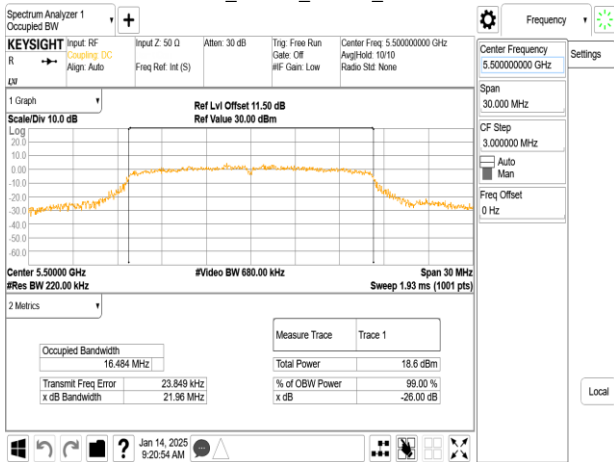


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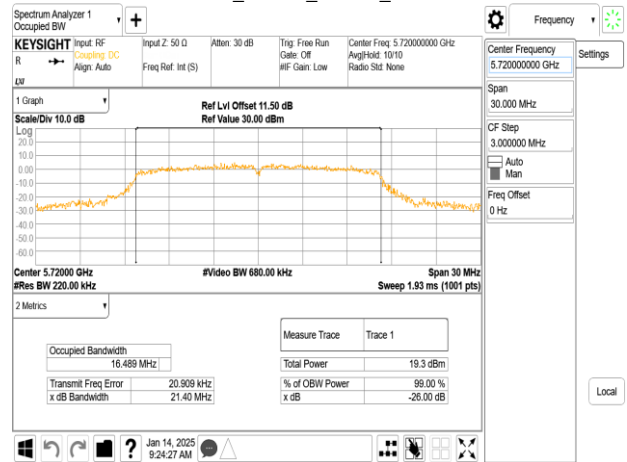
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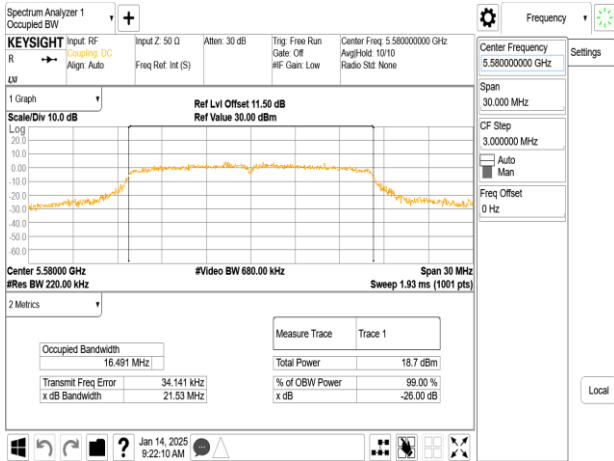
802.11a\_20MHz\_Chain0\_5500MHz



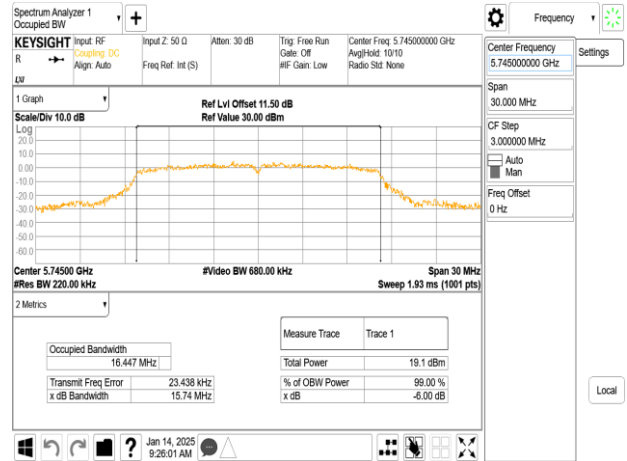
802.11a\_20MHz\_Chain0\_5720MHz



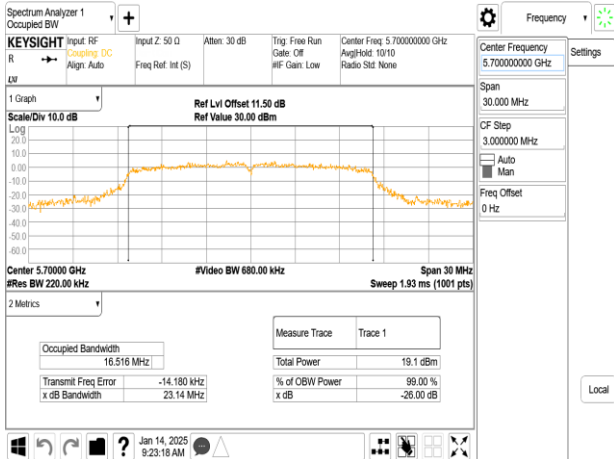
802.11a\_20MHz\_Chain0\_5580MHz



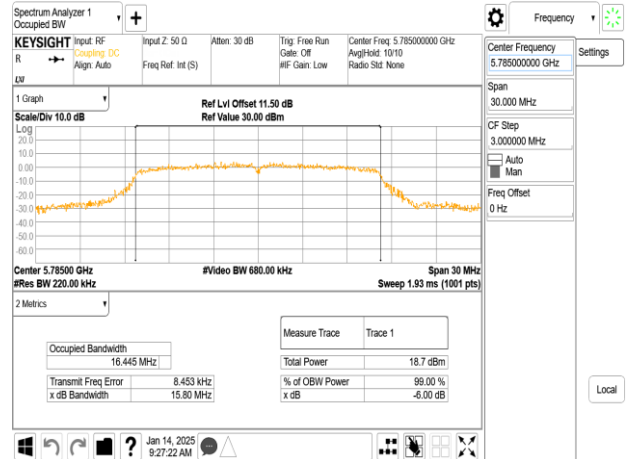
802.11a\_20MHz\_Chain0\_5745MHz



802.11a\_20MHz\_Chain0\_5700MHz



802.11a\_20MHz\_Chain0\_5785MHz

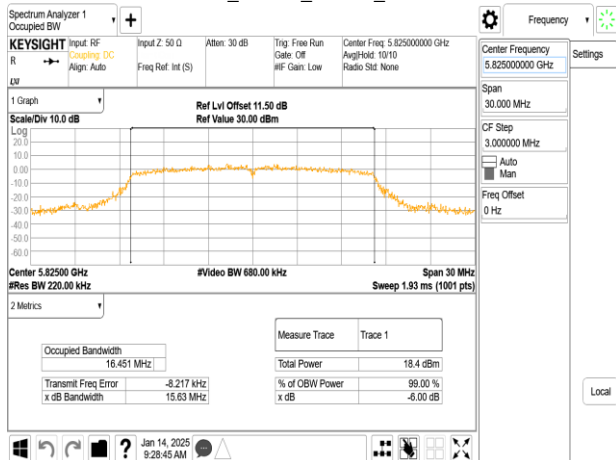


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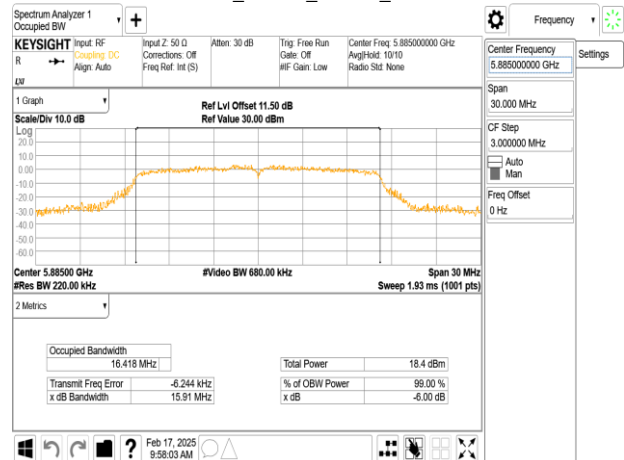
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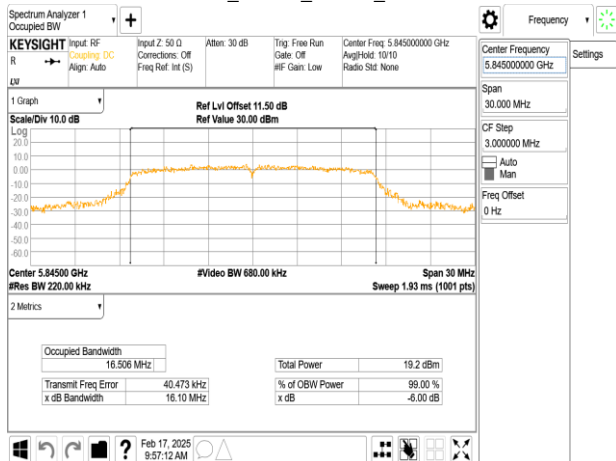
802.11a\_20MHz\_Chain0\_5825MHz



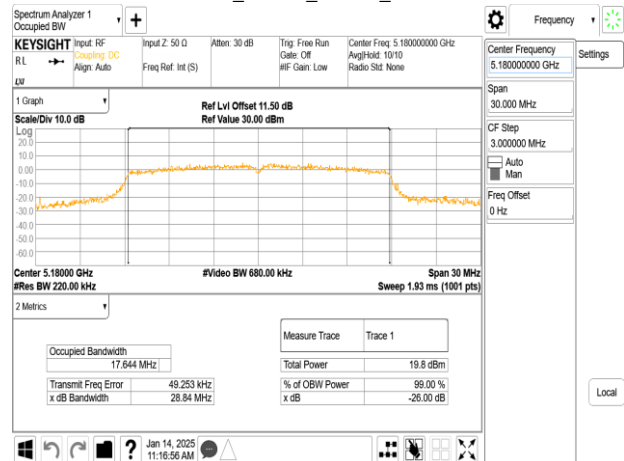
802.11a\_20MHz\_Chain0\_5885MHz



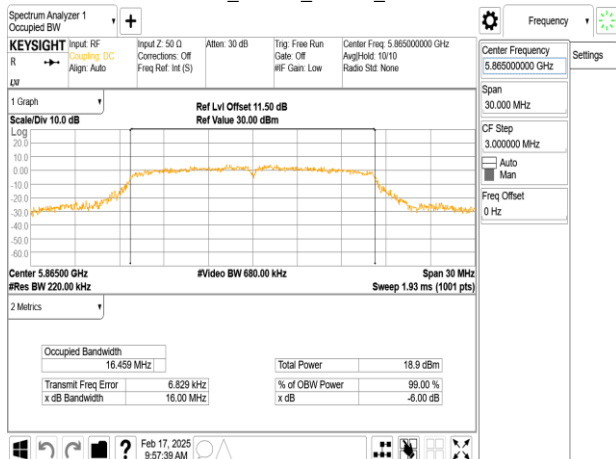
802.11a\_20MHz\_Chain0\_5845MHz



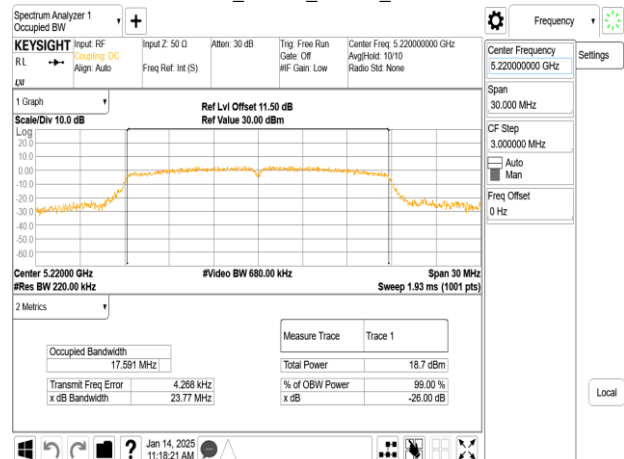
802.11n\_20MHz\_Chain0\_5180MHz



802.11a\_20MHz\_Chain0\_5865MHz



802.11n\_20MHz\_Chain0\_5220MHz

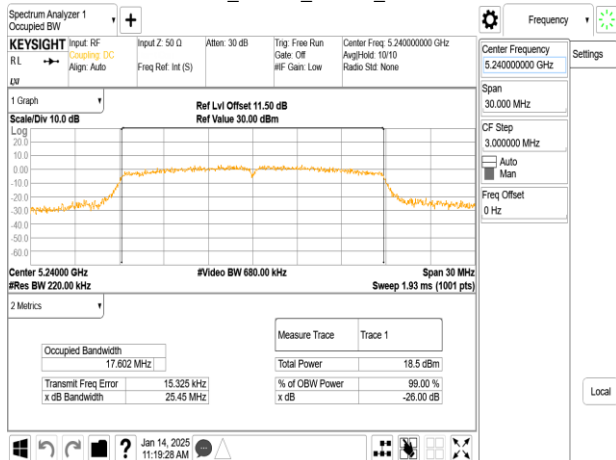


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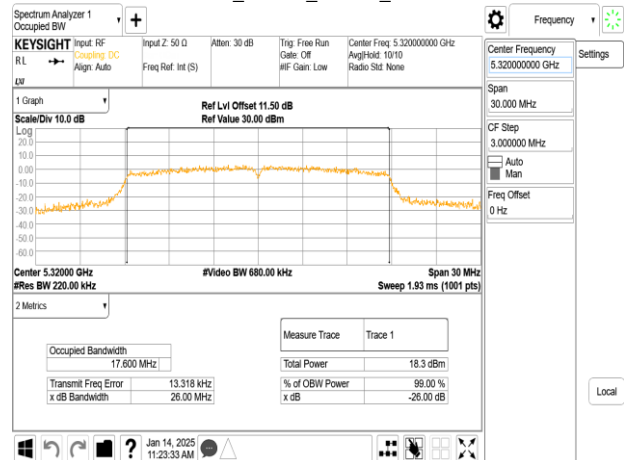
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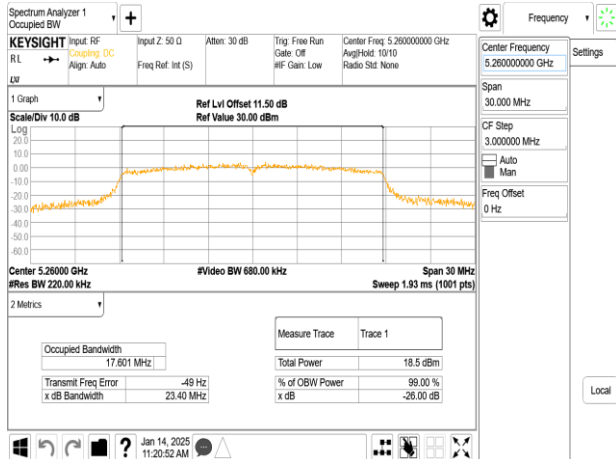
802.11n\_20MHz\_Chain0\_5240MHz



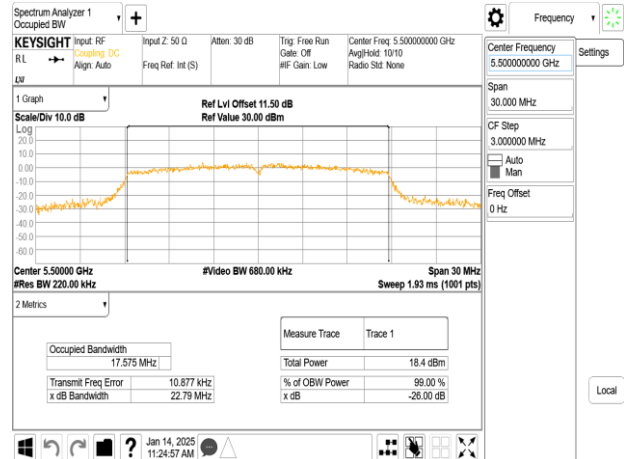
802.11n\_20MHz\_Chain0\_5320MHz



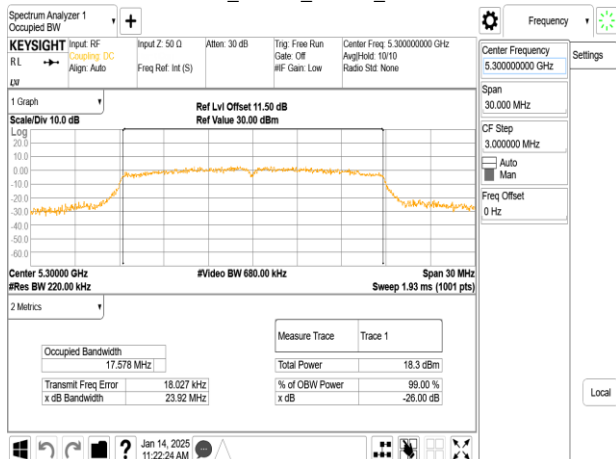
802.11n\_20MHz\_Chain0\_5260MHz



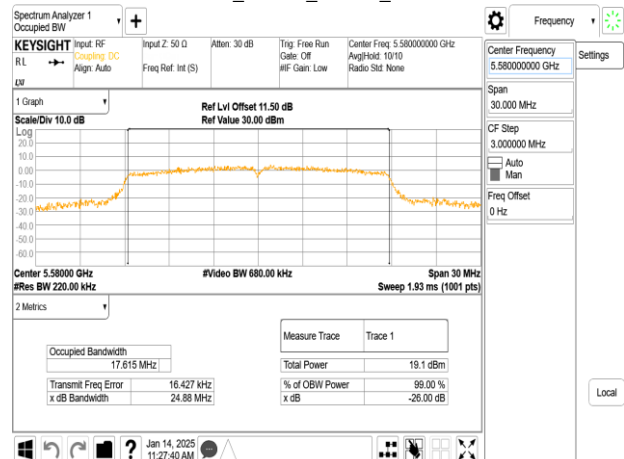
802.11n\_20MHz\_Chain0\_5500MHz



802.11n\_20MHz\_Chain0\_5300MHz



802.11n\_20MHz\_Chain0\_5580MHz

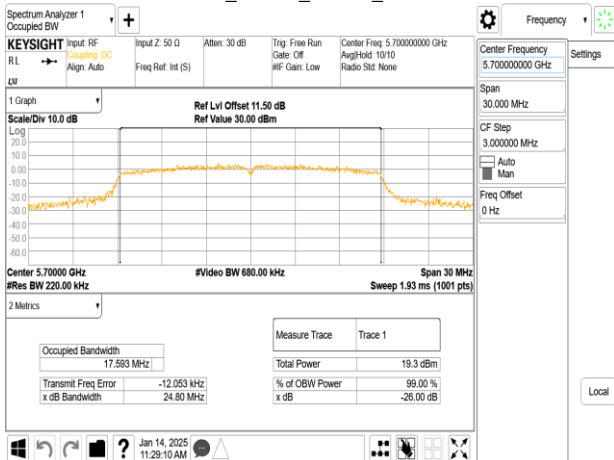


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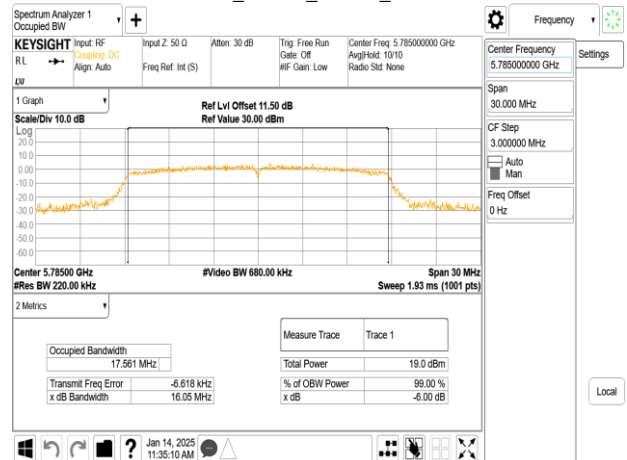
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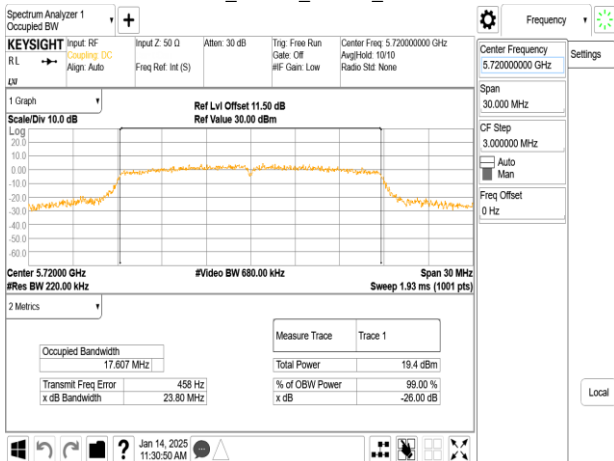
802.11n\_20MHz\_Chain0\_5700MHz



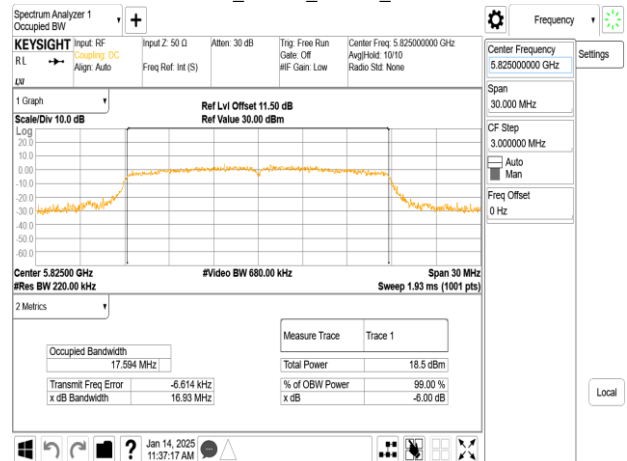
802.11n\_20MHz\_Chain0\_5785MHz



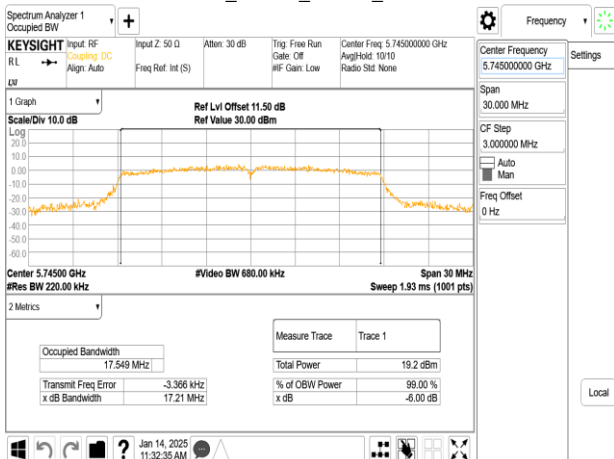
802.11n\_20MHz\_Chain0\_5720MHz



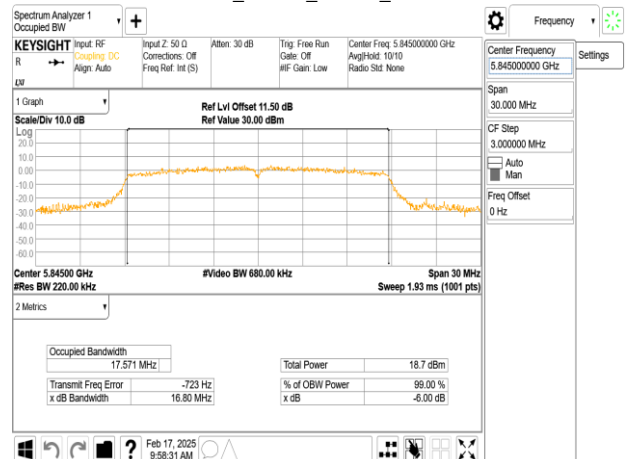
802.11n\_20MHz\_Chain0\_5825MHz



802.11n\_20MHz\_Chain0\_5745MHz



802.11n\_20MHz\_Chain0\_5845MHz



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