



## RF MEASUREMENT REPORT

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**FCC ID:** HD5-CT32X0  
**Applicant:** Honeywell International Inc  
**Product:** Mobile Computer  
**Model No.:** CT32X0  
**Brand Name:** Honeywell  
**FCC Classification:** 15E 6GHz Dual Client (6CD)  
**FCC Rule Part(s):** Part 15 Subpart E (Section 15.407)  
**Result:** Complies  
**Received Date:** 2024-12-26  
**Test Date:** 2025-01-07 ~ 2025-03-20

**Reviewed By:**

\_\_\_\_\_  
Jame Yuan

**Approved By:**

\_\_\_\_\_  
Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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**Revision History**

| Report No.    | Version | Description                                                                       | Issue Date | Note    |
|---------------|---------|-----------------------------------------------------------------------------------|------------|---------|
| 2412RSU045-U9 | V01     | Initial Report                                                                    | 2025-03-10 | Invalid |
| 2412RSU045-U9 | V02     | 1. Add test data of duty cycle for partial RU;<br>2. Add one description for CBP. | 2025-03-21 | Valid   |
|               |         |                                                                                   |            |         |

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## 1. General Information

### 1.1. Applicant

Honeywell International Inc

9680 Old Bailes Rd. Fort Mill, SC 29707 United States

## 1.2. Manufacturer

Honeywell International Inc

9680 Old Bailes Rd. Fort Mill, SC 29707 United States

### 1.3. Testing Facility

|                                     |                                                                                                                                                                                                                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <b>Test Site – MRT Suzhou Laboratory</b>                                                                                                                                                                                                                                         |
|                                     | <b>Laboratory Location (Suzhou - Wuzhong)</b><br>D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China                                                                                                                                              |
|                                     | <b>Laboratory Location (Suzhou - SIP)</b><br>4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China                                                                                                                                        |
|                                     | <b>Laboratory Location (Suzhou - Wujiang)</b><br>Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China                                                                                                                                            |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                 |
|                                     | A2LA: 3628.01 CNAS: L10551<br>FCC: CN1166 ISED: CN0001                                                                                                                                                                                                                           |
|                                     | VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020<br><input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104 |
| <input type="checkbox"/>            | <b>Test Site – MRT Shenzhen Laboratory</b>                                                                                                                                                                                                                                       |
|                                     | <b>Laboratory Location (Shenzhen)</b><br>1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China                                                                                                                                         |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                 |
|                                     | A2LA: 3628.02 CNAS: L10551<br>FCC: CN1284 ISED: CN0105                                                                                                                                                                                                                           |
| <input type="checkbox"/>            | <b>Test Site – MRT Taiwan Laboratory</b>                                                                                                                                                                                                                                         |
|                                     | <b>Laboratory Location (Taiwan)</b><br>No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)                                                                                                                                                                  |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                 |
|                                     | TAF: 3261<br>FCC: 291082, TW3261 ISED: TW3261                                                                                                                                                                                                                                    |

#### 1.4. Product Information

|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mobile Computer                                                                                                                                                                   |
| Model No.                                                                                                                                                                                                                                                                                                                                                                                                                                        | CT32X0                                                                                                                                                                            |
| Brand Name                                                                                                                                                                                                                                                                                                                                                                                                                                       | Honeywell                                                                                                                                                                         |
| EUT Identification No.                                                                                                                                                                                                                                                                                                                                                                                                                           | 20241226Sample#12 (For conducted testing)<br>20241226Sample#13 (For radiated testing with S0803FR scan engine)<br>20241226Sample#11 (For radiated testing with S0703 scan engine) |
| Wi-Fi Specification                                                                                                                                                                                                                                                                                                                                                                                                                              | 802.11a/b/g/n/ac/ax                                                                                                                                                               |
| Bluetooth Specification                                                                                                                                                                                                                                                                                                                                                                                                                          | V5.2 dual mode                                                                                                                                                                    |
| NFC                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13.56 MHz                                                                                                                                                                         |
| Antenna Information                                                                                                                                                                                                                                                                                                                                                                                                                              | Refer to Section 1.7                                                                                                                                                              |
| Power Type                                                                                                                                                                                                                                                                                                                                                                                                                                       | By Li-ion Battery                                                                                                                                                                 |
| Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                   |
| Rechargeable Li-ion Battery                                                                                                                                                                                                                                                                                                                                                                                                                      | Model No.: EDA52-BAT-US<br>Nominal Voltage: 3.8V<br>Rated Capacity: 17.1 Wh, 4500 mAh                                                                                             |
| Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                          | Model No.: ADS-12B-06 05010E<br>Input: 100-240 V ~ 50/60 Hz, Max 0.3 A<br>Output: 5 V = 2 A 10.0 W                                                                                |
| Remarks:                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                   |
| <ol style="list-style-type: none"> <li>The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.</li> <li>The Mobile Computer has two types of Scan engines (S0703 and S0803FR). The Full Radiated Spurious emission test is performed on Mobile Computer with S0803FR Scan engine, and spot check (Radiated Spurious emission) with Model S0703.</li> </ol> |                                                                                                                                                                                   |

#### 1.5. Radio Specification under Test

|                             |                                                                                                                                                   |                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Frequency Range             | For 802.11ax-HE20: 5955 ~ 7115MHz<br>For 802.11ax-HE40: 5965 ~ 7085MHz<br>For 802.11ax-HE80: 5985 ~ 7025MHz<br>For 802.11ax-HE160: 6025 ~ 6985MHz |                                                 |
| Type of Modulation          | 802.11ax: OFDMA                                                                                                                                   |                                                 |
| Data Rate                   | 802.11ax: up to 2402Mbps                                                                                                                          |                                                 |
| Channel Puncturing Function | <input type="checkbox"/> Supported                                                                                                                | <input checked="" type="checkbox"/> Unsupported |
| Support RU                  | <input checked="" type="checkbox"/> Full RU                                                                                                       | <input checked="" type="checkbox"/> Partial RU  |

## 1.6. Working Frequencies

### 802.11ax-HE20

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 1       | 5955 MHz  | 5       | 5975 MHz  | 9       | 5995 MHz  |
| 13      | 6015 MHz  | 17      | 6035 MHz  | 21      | 6055 MHz  |
| 25      | 6075 MHz  | 29      | 6095 MHz  | 33      | 6115 MHz  |
| 37      | 6135 MHz  | 41      | 6155 MHz  | 45      | 6175 MHz  |
| 49      | 6195 MHz  | 53      | 6215 MHz  | 57      | 6235 MHz  |
| 61      | 6255 MHz  | 65      | 6275 MHz  | 69      | 6295 MHz  |
| 73      | 6315 MHz  | 77      | 6335 MHz  | 81      | 6355 MHz  |
| 85      | 6375 MHz  | 89      | 6395 MHz  | 93      | 6415 MHz  |
| 97      | 6435 MHz  | 101     | 6455 MHz  | 105     | 6475 MHz  |
| 109     | 6495 MHz  | 113     | 6515 MHz  | 117     | 6535 MHz  |
| 121     | 6555 MHz  | 125     | 6575 MHz  | 129     | 6595 MHz  |
| 133     | 6615 MHz  | 137     | 6635 MHz  | 141     | 6655 MHz  |
| 145     | 6675 MHz  | 149     | 6695 MHz  | 153     | 6715 MHz  |
| 157     | 6735 MHz  | 161     | 6755 MHz  | 165     | 6775 MHz  |
| 169     | 6795 MHz  | 173     | 6815 MHz  | 177     | 6835 MHz  |
| 181     | 6855 MHz  | 185     | 6875 MHz  | 189     | 6895 MHz  |
| 193     | 6915 MHz  | 197     | 6935 MHz  | 201     | 6955 MHz  |
| 205     | 6975 MHz  | 209     | 6995 MHz  | 213     | 7015 MHz  |
| 217     | 7035 MHz  | 221     | 7055 MHz  | 225     | 7075 MHz  |
| 229     | 7095 MHz  | 233     | 7115 MHz  | --      | --        |

### 802.11ax-HE40

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 3       | 5965 MHz  | 11      | 6005 MHz  | 19      | 6045 MHz  |
| 27      | 6085 MHz  | 35      | 6125 MHz  | 43      | 6165 MHz  |
| 51      | 6205 MHz  | 59      | 6245 MHz  | 67      | 6285 MHz  |
| 75      | 6325 MHz  | 83      | 6365 MHz  | 91      | 6405 MHz  |
| 99      | 6445 MHz  | 107     | 6485 MHz  | 115     | 6525 MHz  |
| 123     | 6565 MHz  | 131     | 6605 MHz  | 139     | 6645 MHz  |
| 147     | 6685 MHz  | 155     | 6725 MHz  | 163     | 6765 MHz  |
| 171     | 6805 MHz  | 179     | 6845 MHz  | 187     | 6885 MHz  |
| 195     | 6925 MHz  | 203     | 6965 MHz  | 211     | 7005 MHz  |
| 219     | 7045 MHz  | 227     | 7085 MHz  |         | --        |



## 802.11ax-HE80

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 7       | 5985 MHz  | 23      | 6065 MHz  | 39      | 6145 MHz  |
| 55      | 6225 MHz  | 71      | 6305 MHz  | 87      | 6385 MHz  |
| 103     | 6465 MHz  | 119     | 6545 MHz  | 135     | 6625 MHz  |
| 151     | 6705 MHz  | 167     | 6785 MHz  | 183     | 6865 MHz  |
| 199     | 6945 MHz  | 215     | 7025 MHz  |         | --        |

## 802.11ax-HE160

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 15      | 6025 MHz  | 47      | 6185 MHz  | 79      | 6345 MHz  |
| 111     | 6505 MHz  | 143     | 6665 MHz  | 175     | 6825 MHz  |
| 207     | 6985 MHz  | --      | --        |         | --        |

### 1.7. Antenna Details

| Antenna Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Frequency Band (MHz) | Antenna Gain (dBi) |       | Directional Gain (dBi)   |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|-------|--------------------------|----------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | Ant 0              | Ant 1 | Uncorrelated (For Power) | Correlated (For PSD) |
| Wi-Fi Antennas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |                    |       |                          |                      |
| LDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2400 ~ 2500          | 2.71               | 2.42  | 2.71                     | 5.72                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5150 ~ 5250          | 3.42               | 3.05  | 3.42                     | 6.43                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5250 ~ 5350          | 3.38               | 3.09  | 3.38                     | 6.39                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5470 ~ 5725          | 3.41               | 3.13  | 3.41                     | 6.42                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5725 ~ 5850          | 3.54               | 3.09  | 3.54                     | 6.55                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5925 ~ 6425          | 3.82               | 2.94  | 3.82                     | 6.83                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6425 ~ 6525          | 3.74               | 2.96  | 3.74                     | 6.75                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6525 ~ 6875          | 3.68               | 3.14  | 3.68                     | 6.69                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6875 ~ 7125          | 3.72               | 3.22  | 3.72                     | 6.73                 |
| <p>Note:</p> <p>The EUT supports Cyclic Delay Diversity (CDD) mode, For CDD transmissions, directional gain is calculated as follows.</p> <p>Directional gain = <math>G_{ANT\ Max} + \text{Array Gain}</math>, where Array Gain is as follows.</p> <ul style="list-style-type: none"><li>For power spectral density (PSD) measurements on all devices,<br/>Array Gain = <math>10 \log (N_{ANT}/ N_{SS})</math> dB;</li><li>For power measurements on IEEE 802.11 devices,<br/>Array Gain = 0 dB for <math>N_{ANT} \leq 4</math>;</li></ul> |                      |                    |       |                          |                      |

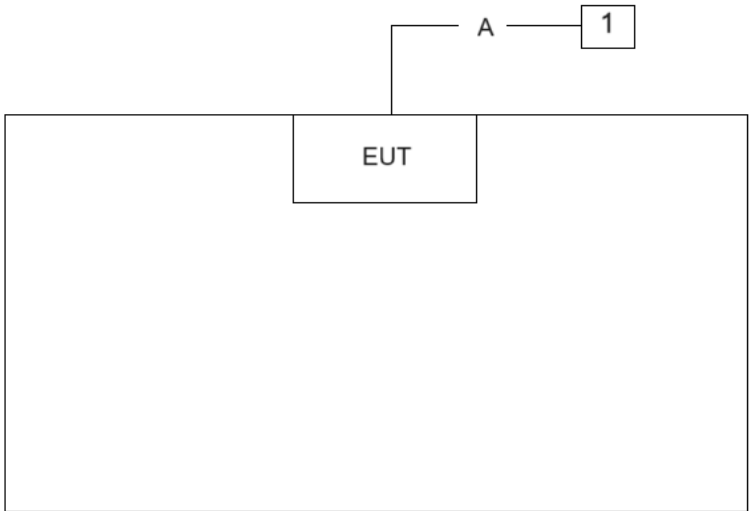
## 2. Test Configuration

### 2.1. Test Mode

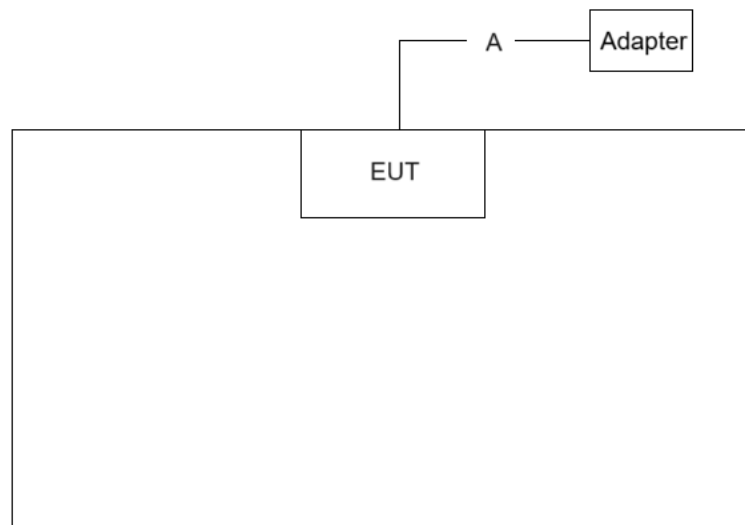
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 1: Transmit by 802.11ax-HE20_Nss=1 (MCS0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Mode 2: Transmit by 802.11ax-HE40_Nss=1 (MCS0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Mode 3: Transmit by 802.11ax-HE80_Nss=1 (MCS0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Mode 4: Transmit by 802.11 ax-HE160_Nss=1 (MCS0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Notes: <ol style="list-style-type: none"><li>1. All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate.</li><li>2. For CDD mode, this device supports 2NSS and power level is the same of spatial multiplexing. The worst case is Nss=1.</li><li>3. the EUT supports 26/52/106/242/484/996/2*996-tone RU, the PSD of the partial RU has been minimized to be less than full RU.</li><li>4. The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel, 996-tone RU is covered by 80MHz channel and 2*996-tone RU is covered by 160MHz channel.</li></ol> |

## 2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

| Connection Diagram                                                                  |           |                   |           |
|-------------------------------------------------------------------------------------|-----------|-------------------|-----------|
| Connection Diagram – Radiated Emission testing                                      |           |                   |           |
|  |           |                   |           |
| Cable Type                                                                          |           | Cable Description | Length    |
| A                                                                                   | USB Cable | Shielded          | 1.2m      |
| Product                                                                             |           | Manufacturer      | Model No. |
| 1                                                                                   | Notebook  | HP                | 445R G6   |

### Connection Diagram – AC Conducted Emissions



| Cable Type |           | Cable Description | Length |
|------------|-----------|-------------------|--------|
| A          | USB Cable | Shielded          | 1.2m   |

### 2.3. Test Software

The test utility software used during testing was “QRCT”, and the version was 4.0.209.0.

## 2.4. Applied Standards

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

- ANSI C63.10-2013
- FCC KDB 789033 D02v02r01
- FCC KDB 987594 D02v03
- FCC KDB 987594 D04v03
- FCC KDB 662911 D01v02r01
- FCC KDB 414788 D01v01r01
- FCC KDB 412172 D01v01r01

## 2.5. Test Environment Condition

|                     |            |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C  |
| Relative Humidity   | 20 ~ 75%RH |

### 3. Antenna Requirements

#### Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

#### **Conclusion:**

The unit complies with the requirement of §15.203.

#### 4. Measuring Instrument

| Instrument                                      | Manufacturer | Model No.      | Asset No.   | Cali. Interval | Cali. Due Date | Test Site |
|-------------------------------------------------|--------------|----------------|-------------|----------------|----------------|-----------|
| EMI Test Receiver                               | R&S          | ESR3           | MRTSUE06185 | 1 year         | 2025-12-05     | SIP-AC3   |
| Thermohygrometer                                | testo        | 608-H1         | MRTSUE06619 | 1 year         | 2025-10-16     | SIP-AC3   |
| TRILOG Antenna                                  | Schwarzbeck  | VULB 9168      | MRTSUE06646 | 1 year         | 2025-07-29     | SIP-AC3   |
| Signal Analyzer                                 | Keysight     | N9010B         | MRTSUE06603 | 1 year         | 2025-09-05     | SIP-AC3   |
| Preamplifier                                    | EMCI         | EMC012645SE    | MRTSUE06642 | 1 year         | 2026-01-05     | SIP-AC3   |
| Horn Antenna                                    | Schwarzbeck  | BBHA 9170      | MRTSUE06599 | 1 year         | 2025-09-08     | SIP-AC3   |
| Preamplifier                                    | EMCI         | EMC184045SE    | MRTSUE06602 | 1 year         | 2025-10-08     | SIP-AC3   |
| Active Loop Antenna                             | Schwarzbeck  | FMZB 1519-60 D | MRTSUE07075 | 1 year         | 2025-11-19     | SIP-AC3   |
| Horn Antenna                                    | R&S          | HF907          | MRTSUE06611 | 1 year         | 2025-07-07     | SIP-AC3   |
| Anechoic Chamber                                | RIKEN        | SIP-AC3        | MRTSUE06782 | 1 year         | 2025-12-19     | SIP-AC3   |
| Two-Line V-Network                              | R&S          | ENV216         | MRTSUE06003 | 1 year         | 2025-05-08     | SIP-SR2   |
| EMI Test Receiver                               | R&S          | ESR3           | MRTSUE06612 | 1 year         | 2025-05-08     | SIP-SR2   |
| Thermohygrometer                                | testo        | 608-H1         | MRTSUE06621 | 1 year         | 2025-10-29     | SIP-SR2   |
| Shielding Room                                  | MIX-BEP      | SIP-SR2        | MRTSUE06949 | 5 years        | 2029-10-13     | SIP-SR2   |
| USB Power Sensor                                | Keysight     | U2021XA        | MRTSUE06596 | 1 year         | 2025-07-23     | SIP-TR1   |
| Pxle Microwave Vector<br>Signal Source test set | Keysight     | M9384B         | MRTSUE06994 | 1 year         | 2025-12-23     | SIP-TR1   |
| Temperature Chamber                             | BAOYT        | BYG-408CS      | MRTSUE06847 | 1 year         | 2025-02-03     | SIP-TR1   |
|                                                 |              |                |             | 1 year         | 2026-01-21     | SIP-TR1   |
| Signal Analyzer                                 | Keysight     | N9030B         | MRTSUE06395 | 1 year         | 2025-06-21     | SIP-TR1   |
| Thermohygrometer                                | testo        | 608-H1         | MRTSUE11022 | 1 year         | 2025-10-16     | SIP-TR1   |
| Thermohygrometer                                | testo        | 608-H1         | MRTSUE06402 | 1 year         | 2025-05-12     | WZ-SR5    |
| Shielding Room                                  | HUAMING      | WZ-SR5         | MRTSUE06442 | N/A            | N/A            | WZ-SR5    |
| Signal Analyzer                                 | Keysight     | N9010B         | MRTSUE06457 | 1 year         | 2025-05-08     | WZ-SR5    |
| Signal Generator                                | Keysight     | N5182B         | MRTSUE06993 | 1 year         | 2025-07-18     | WZ-SR5    |
| Frequency extender for<br>EXG or MXG            | Keysight     | N5182BX07      | MRTSUE06984 | 1 year         | 2025-02-03     | WZ-SR5    |
|                                                 |              |                |             | 1 year         | 2026-01-21     | WZ-SR5    |

| Software                                   | Version     | Function               |
|--------------------------------------------|-------------|------------------------|
| e3                                         | 230711      | EMI Test Software      |
| Agilent Power Analyzer/Agilent Power Panel | V R03.09.00 | Power                  |
| Controller_MF 7802BS                       | 1.02        | RE Antenna & Turntable |



## 5. Decision Rules and Measurement Uncertainty

### 5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.  
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

|                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC Conducted Emission Measurement</b>                                                                                                                                                                                                                                                                                   |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>9kHz~150kHz: 3.58dB</p> <p>150kHz~30MHz: 3.20dB</p>                                                                                                                                                                                                         |
| <b>Radiated Emission Measurement</b>                                                                                                                                                                                                                                                                                       |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>Coaxial: 9kHz~30MHz: 2.61dB</p> <p>Coplanar: 9kHz~30MHz: 2.62dB</p> <p>Horizontal: 30MHz~200MHz: 3.79dB</p> <p>200MHz~1GHz: 3.91dB</p> <p>1GHz~40GHz: 4.99dB</p> <p>Vertical: 30MHz~200MHz: 4.06dB</p> <p>200MHz~1GHz: 5.21dB</p> <p>1GHz~40GHz: 4.90dB</p> |
| <b>Spurious Emissions, Conducted</b>                                                                                                                                                                                                                                                                                       |
| <p>Measuring Uncertainty for a Level of Confidence of 95% (<math>U=2U_c(y)</math>):</p> <p>2.2dB</p>                                                                                                                                                                                                                       |
| <b>Output Power</b>                                                                                                                                                                                                                                                                                                        |
| <p>Measuring Uncertainty for a Level of Confidence of 95% (<math>U=2U_c(y)</math>):</p> <p>1.4dB</p>                                                                                                                                                                                                                       |
| <b>Power Spectrum Density</b>                                                                                                                                                                                                                                                                                              |
| <p>Measuring Uncertainty for a Level of Confidence of 95% (<math>U=2U_c(y)</math>):</p> <p>2.2dB</p>                                                                                                                                                                                                                       |
| <b>Occupied Bandwidth</b>                                                                                                                                                                                                                                                                                                  |
| <p>Measuring Uncertainty for a Level of Confidence of 95% (<math>U=2U_c(y)</math>):</p> <p>2.7%</p>                                                                                                                                                                                                                        |

## 6. Test Result

### 6.1. Summary

| FCC Section(s)                            | Test Description                                                                         | Test Condition | Verdict |
|-------------------------------------------|------------------------------------------------------------------------------------------|----------------|---------|
| 15.407(a)                                 | 26dB Bandwidth                                                                           | Conducted      | Pass    |
| 15.407(a)(7), (a)(8)                      | Maximum Equivalent Isotropically Radiated Power (EIRP)                                   |                | Pass    |
| 15.407(a)(7), (a)(8)                      | Maximum Power Spectral Density (EIRP)                                                    |                | Pass    |
| 15.407(g)                                 | Frequency Stability                                                                      |                | Pass    |
| 15.407(b)(7)                              | In-Band Emission                                                                         |                | Pass    |
| 15.407(d)(6)                              | Contention-Based Protocol                                                                |                | Pass    |
| 15.407(a)(7)                              | Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point (APC) |                | Pass    |
| 15.407(a)(7)                              | Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP        |                | Pass    |
| 15.407(b)(6)                              | Unwanted Emissions                                                                       | Radiated       | Pass    |
| 15.205, 15.209<br>15.407(b)(8), (9), (10) | General Field Strength (Restricted Bands and Radiated Emission)                          |                | Pass    |
| 15.207                                    | AC Conducted Emissions<br>150kHz - 30MHz                                                 | Line Conducted | Pass    |

#### Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
- The full RU has higher power levels than partial RU, therefore full test was performed for full RU. For partial RU, we do some spot check testing on partial items "Maximum Equivalent Isotropically Radiated Power (EIRP)" and "Maximum Power Spectral Density (EIRP)".
- The Mobile Computer has two types of scan engines (S0703 and S0803FR), these differences don't involve PCB board. So we do the full test with engine S0803FR and spot check "Radiated Spurious Emission" with engine S0703.

## **6.2. 26dB Bandwidth Measurement**

### **6.2.1. Test Limit**

The maximum transmitter channel bandwidth for U–NII devices in the 5.925–7.125 GHz band is 320 megahertz.

### **6.2.2. Test Procedure**

KDB 789033 D02v02r01- Section II)C)1) (26dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

### **6.2.3. Test Setting**

#### **26dB Bandwidth**

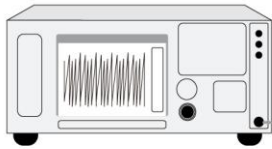
1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.  
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### **99% Bandwidth**

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 1% to 5% of the OBW
3.  $VBW \geq 3 \times RBW$
4. Span = 1.5 times to 5 times the OBW
5. Detector = peak
6. Trace mode = max hold
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument.

#### 6.2.4. Test Setup

Spectrum Analyzer



DC Block  
&  
Attenuator



EUT



#### 6.2.5. Test Result

Refer to Appendix A.2.

### 6.3. Output Power Measurement

#### 6.3.1. Test Limit

For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

#### 6.3.2. Test Procedure

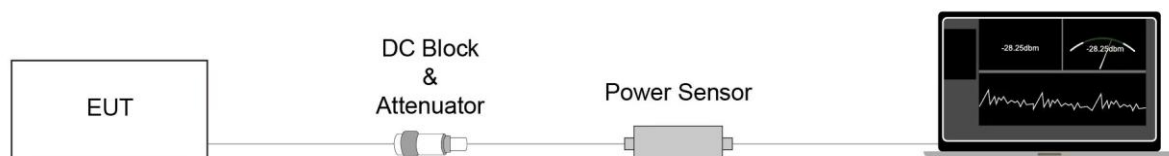
KDB 789033D02v02r01- Section II(E)3)b) Method PM-G

#### 6.3.3. Test Setting

##### Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

#### 6.3.4. Test Setup



#### 6.3.5. Test Result

Refer to Appendix A.3.

## **6.4. Power Spectral Density Measurement**

### **6.4.1. Test Limit**

For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band.

For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed –1 dBm e.i.r.p. in any 1-megahertz band.

### **6.4.2. Test Procedure**

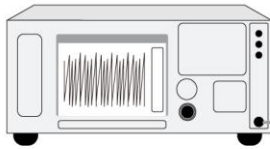
KDB 789033 D02v02r01-Section II)F)

### **6.4.3. Test Setting**

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points  $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add  $10 \cdot \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add  $10 \cdot \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

#### 6.4.4. Test Setup

Spectrum Analyzer



DC Block  
&  
Attenuator



EUT



#### 6.4.5. Test Result

Refer to Appendix A.4.

## **6.5. In-Band Emission Measurement**

### **6.5.1. Test Limit**

Suppressed by 20 dB at 1 MHz outside of the channel edge.

(The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)

Suppressed by 28 dB at one channel bandwidth from the channel center.

Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

### **6.5.2. Test Procedure**

KDB 987594 D02v03- Section II)J

### **6.5.3. Test Setting**

#### Emissions Mask Reference Level Measurement

1. Set the span to encompass the entire 26 dB EBW of the signal.
2. Set RBW = same RBW used for 26 dB EBW measurement.
3. Set VBW  $\geq 3 \times$  RBW.
4. Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.

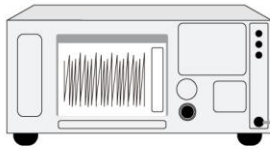
#### In-Band Emission

1. Using the measuring equipment limit line function, develop the emissions mask based on rule.
2. Adjust the span to encompass the entire mask as necessary.
3. Clear trace.
4. Trace average at least 100 traces in power averaging (rms) mode.
5. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.



#### 6.5.4. Test Setup

Spectrum Analyzer



DC Block  
&  
Attenuator



EUT



#### 6.5.5. Test Result

Refer to Appendix A.5.

## 6.6. Frequency Stability Measurement

### 6.6.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 6.6.2. Test Procedure

#### Frequency Stability Under Temperature Variations:

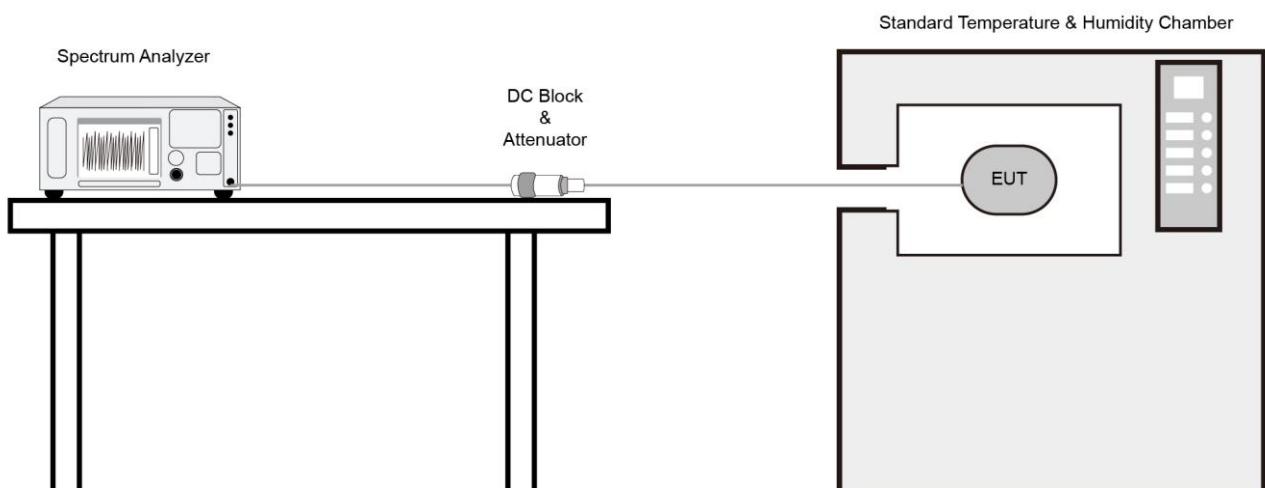
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

#### Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

### 6.6.3. Test Setup



#### **6.6.4. Test Result**

Refer to Appendix A.6.

## **6.7. Contention Based Protocol Measurement**

### **6.7.1. Test Limit**

Unlicensed indoor low power device must detect co-channel radio frequency power that is at least -62dBm (The threshold is referenced to a 0dBi antenna gain.) or low.

Indoor low power device must detect an AWGN signal with 90% (or better) level of certainty.

### **6.7.2. Test Procedure**

KDB 987594 D02v03- Section II)

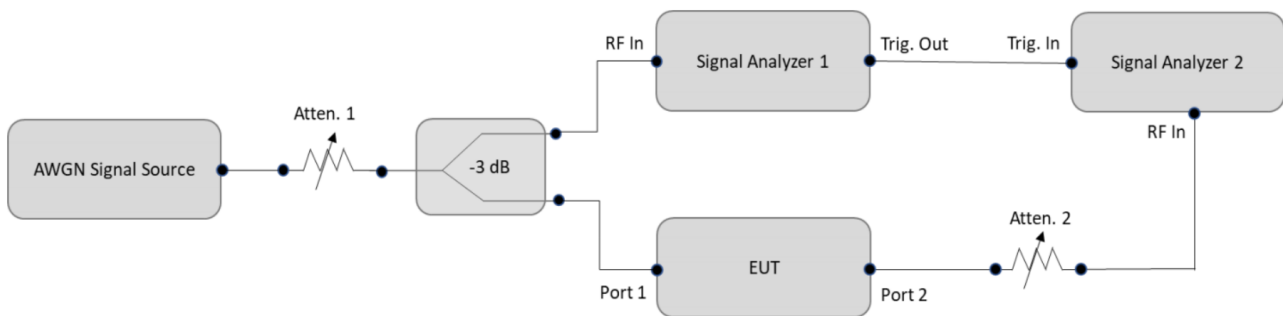
### **6.7.3. Test Setting**

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.  
Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate a 10 MHz-wide AWGN signal. Use Table 1 of KDB 987594 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level. Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in below figure.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If

testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Note: The EUT does not support channel puncturing or bandwidth reduction for the purposes of incumbent avoidance, with the whole channel shutting down when an incumbent signal is present.

#### 6.7.4. Test Setup



#### 6.7.5. Test Result

Refer to Appendix A.7.

## 6.8. Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point (APC)

### 6.8.1. Test Limit

The device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

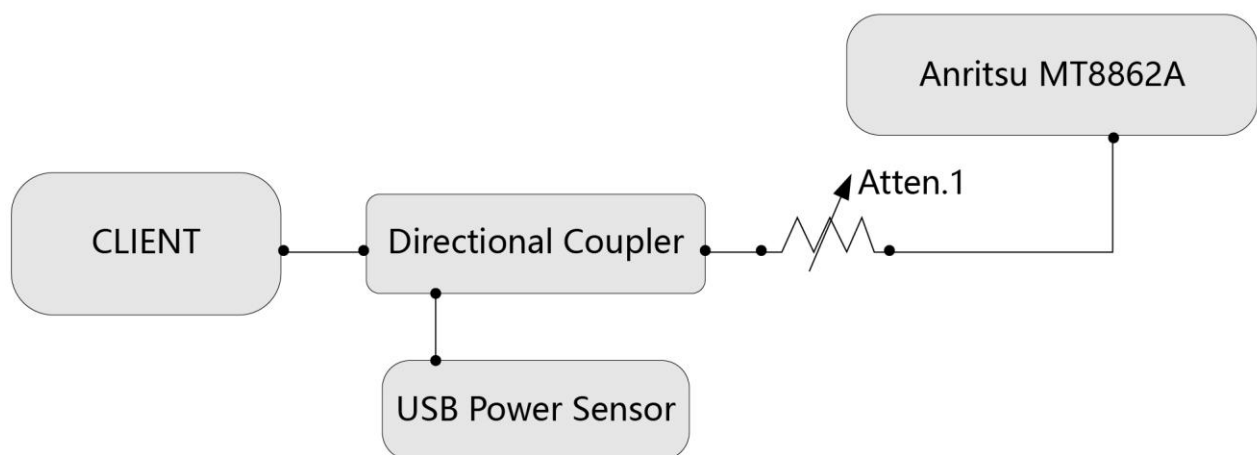
### 6.8.2. Test Procedure

KDB 987594 D02v03- Section II)L

### 6.8.3. Test Setting

1. Connect equipment as shown in test setup below.
2. Adjust Atten 1 to Std Power AP (Anritsu MT8862A) so as to facilitate error free communication with the Client but protect the Client receiver from overload or damage.
3. Configure the Client in SISO Mode.
4. Configure the Client and AP (Anritsu MT8862A) to associate and send data (stream data). The AP (Anritsu MT8862A) should be configured so its registered power is 36 dBm EIRP.
5. Verify transmission between the Client and Std Power AP (Anritsu MT8862A). Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices. Use this power, along with its antenna gain, to calculate the Client EIRP.
6. The Client EIRP should be minimally 6 dB lower than the instrument.
7. Repeat Steps 2 through 5 at two other selected measurement points—the first at the midpoint and the second at the lowest rated power of the client as declared by the manufacturer.

### 6.8.4. Test Setup



#### **6.8.5. Test Result**

Refer to Appendix A.8.

## **6.9. Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP**

### **6.9.1. Test Limit**

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP.

### **6.9.2. Test Procedure**

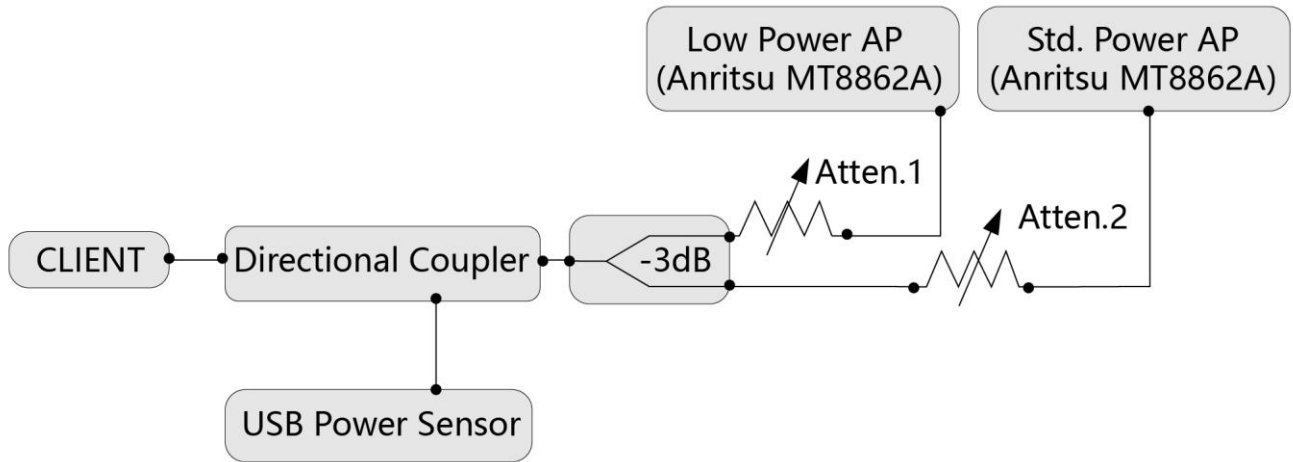
KDB 987594 D02v03- Section II)K

### **6.9.3. Test Setting**

1. Connect equipment as shown in test setup below.
2. Adjust Atten 2 to Std Power AP (Anritsu MT8862A) so as to facilitate error free communication with the Client (Atten 1 should be set to High on the RF path to the Low Power AP)
3. Configure the Client in SISO Mode.
4. Configure the Client and APs (Anritsu MT8862A) so that they associate and start sending data (stream data). It is important that the client is configured to transmit at its highest power level. Initially, because the attenuation on Atten 1 is set high, the Client will only associate with the Std Power AP (Anritsu MT8862A).
5. Verify transmission between Client and Std Power AP (Anritsu MT8862A). Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices.
6. Gradually increase Atten 2 while at the same time decreasing Atten 1. This simulates the Client moving from outdoors to indoors. At some level of attenuation the Client should associate with the Low Power indoor AP (Anritsu MT8862A).
7. Verify transmission between Client and Low Power AP (Anritsu MT8862A).
8. Measure the RF power of the Client device using the same method as in step 4. Verify the power is no more than 24 dBm EIRP



#### 6.9.4. Test Setup



#### 6.9.5. Test Result

Refer to Appendix A.9.

## 6.10. Radiated Spurious Emission Measurement

### 6.10.1. Test Limit

For 15.407(b)(5) requirement

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an EIRP. of -27 dBm/MHz.

Refer to 987594 D02 U-NII 6GHz EMC Measurement v03 clause G

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 |                          |                               |
|----------------------------------------|--------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[uV/m] | Measured Distance<br>[Meters] |
| 0.009 - 0.490                          | 2400/F (kHz)             | 300                           |
| 0.490 - 1.705                          | 24000/F (kHz)            | 30                            |
| 1.705 - 30                             | 30                       | 30                            |
| 30 - 88                                | 100                      | 3                             |
| 88 - 216                               | 150                      | 3                             |
| 216 - 960                              | 200                      | 3                             |
| Above 960                              | 500                      | 3                             |

### 6.10.2. Test Procedure

KDB 789033 D02v02r01-Section II)G)

### 6.10.3. Test Setting

**Table 1 - RBW as a function of frequency**

| Frequency     | RBW           |
|---------------|---------------|
| 9 ~ 150 kHz   | 200 ~ 300 Hz  |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz    |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000MHz     | 1MHz          |

#### **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

#### **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

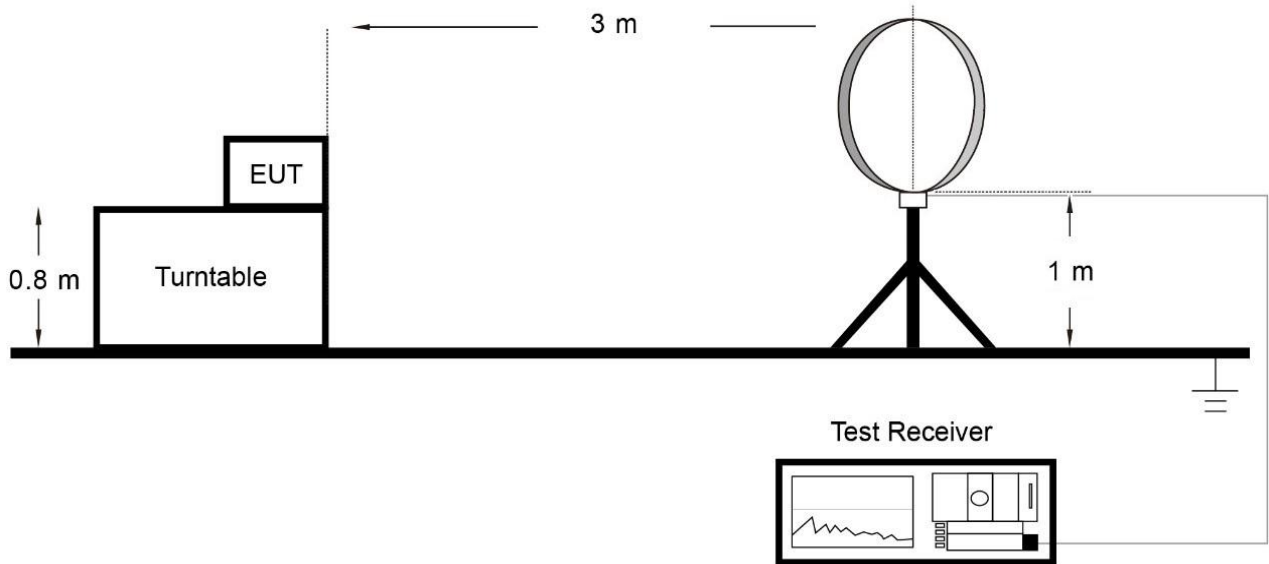
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.

If the EUT duty cycle is  $< 98\%$ , set  $\text{VBW} \geq 1/T$ . T is the minimum transmission duration.

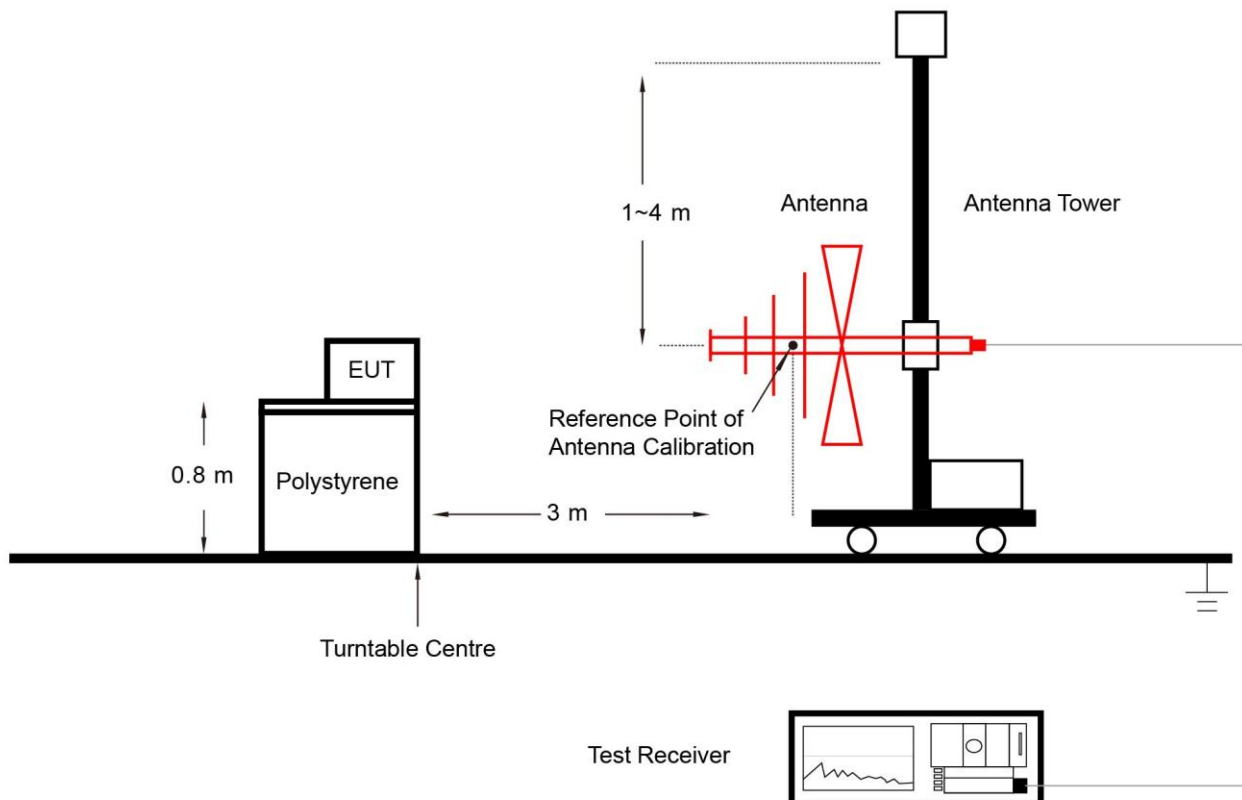
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

#### 6.10.4. Test Setup

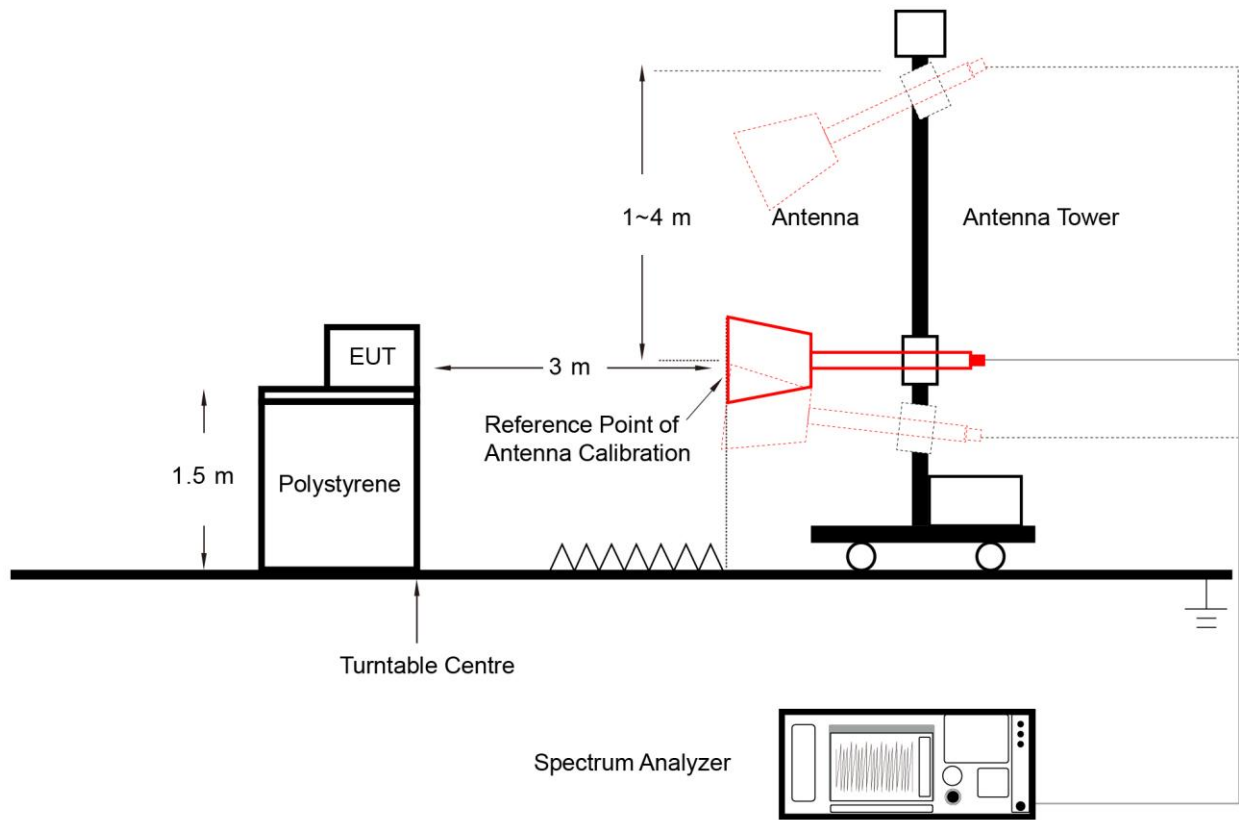
##### Below 30MHz Test Setup:



##### Below 1GHz Test Setup:



### Above 1GHz Test Setup:



### 6.10.5. Test Result

Refer to Appendix A.10.

## 6.11. Radiated Restricted Band Edge Measurement

### 6.11.1. Test Limit

#### For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| Frequency<br>(MHz)         | Frequency<br>(MHz)    | Frequency<br>(MHz) | Frequency<br>(GHz) |
|----------------------------|-----------------------|--------------------|--------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410        | 4.5 - 5.15         |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614          | 5.35 - 5.46        |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240         | 7.25 - 7.75        |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427        | 8.025 - 8.5        |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5      | 9.0 - 9.2          |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5    | 9.3 - 9.5          |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710        | 10.6 - 12.7        |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2    | 13.25 - 13.4       |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300        | 14.47 - 14.5       |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390        | 15.35 - 16.2       |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500      | 17.7 - 21.4        |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900        | 22.01 - 23.12      |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267        | 23.6 - 24.0        |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339        | 31.2 - 31.8        |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358      | 36.43 - 36.5       |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400        | ( <sup>2</sup> )   |
| 13.36 - 13.41              | --                    | --                 | --                 |

**For 15.407(b)(5) requirement:**

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an EIRP. of -27 dBm/MHz.

Refer to 987594 D02 U-NII 6GHz EMC Measurement v03 clause G - Unwanted Emission Measurement

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 |                          |                               |
|----------------------------------------|--------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[uV/m] | Measured Distance<br>[Meters] |
| 0.009 - 0.490                          | 2400/F (kHz)             | 300                           |
| 0.490 - 1.705                          | 24000/F (kHz)            | 30                            |
| 1.705 - 30                             | 30                       | 30                            |
| 30 - 88                                | 100                      | 3                             |
| 88 - 216                               | 150                      | 3                             |
| 216 - 960                              | 200                      | 3                             |
| Above 960                              | 500                      | 3                             |



### 6.11.2. Test Procedure

KDB 789033 D02v02r01-Section II)G)

### 6.11.3. Test Setting

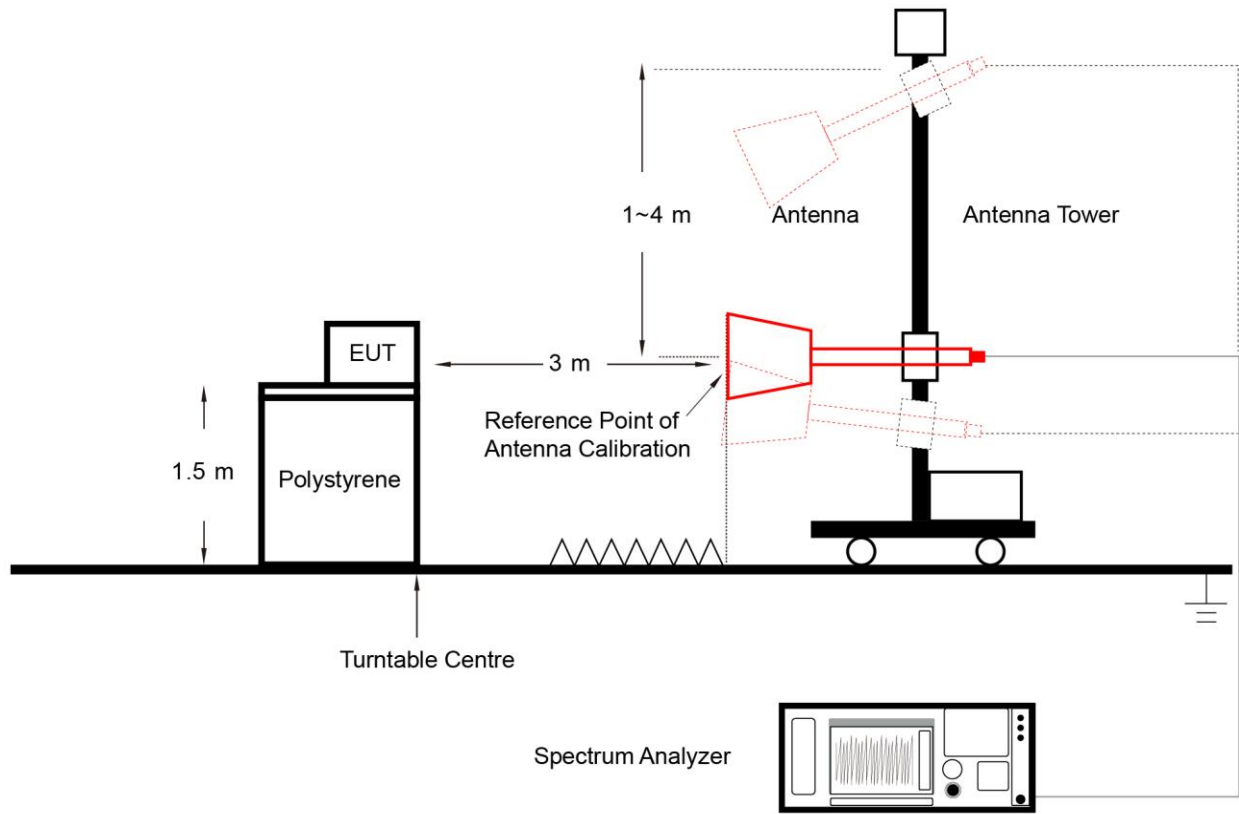
#### **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

#### **Average Measurements above 1GHz (Method VB)**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set  $\text{VBW} \geq 1/T$ . T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

#### 6.11.4. Test Setup



#### 6.11.5. Test Result

Refer to Appendix A.11.

## 6.12. AC Conducted Emissions Measurement

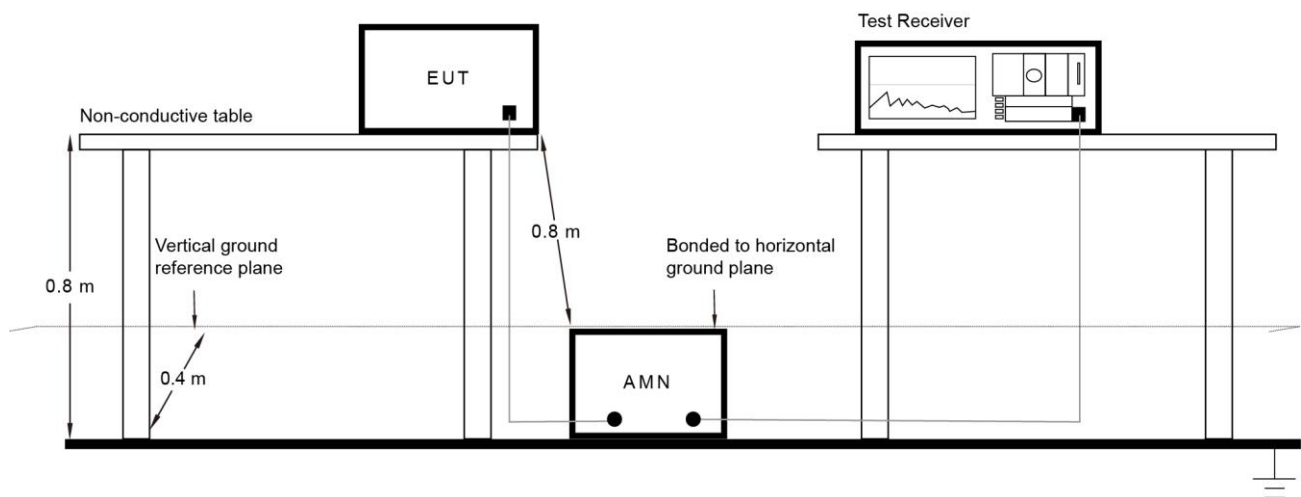
### 6.12.1. Test Limit

| FCC Part 15.207 Limits |           |           |
|------------------------|-----------|-----------|
| Frequency (MHz)        | QP (dBuV) | AV (dBuV) |
| 0.15 - 0.50            | 66 - 56   | 56 - 46   |
| 0.50 - 5.0             | 56        | 46        |
| 5.0 - 30               | 60        | 50        |

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 6.12.2. Test Setup



### 6.12.3. Test Result

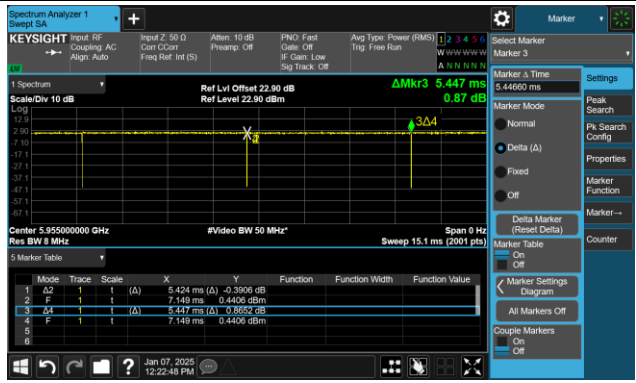
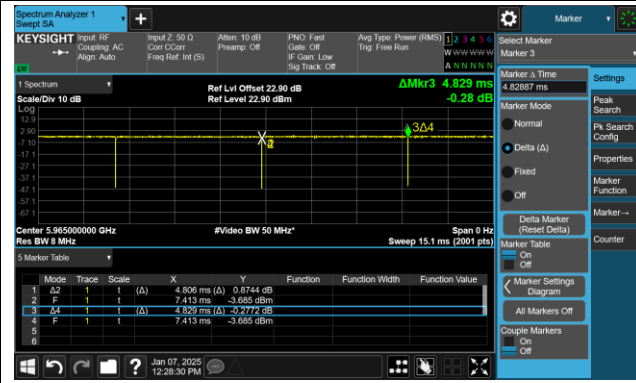
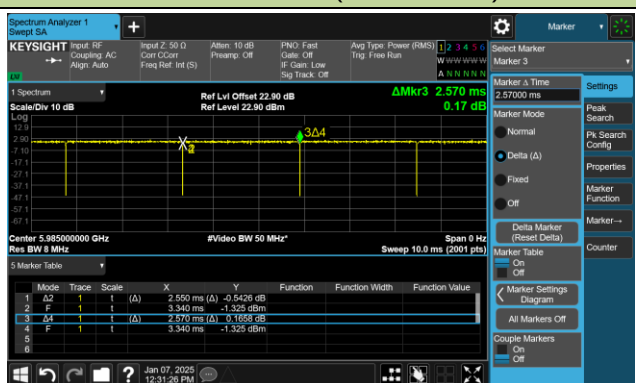
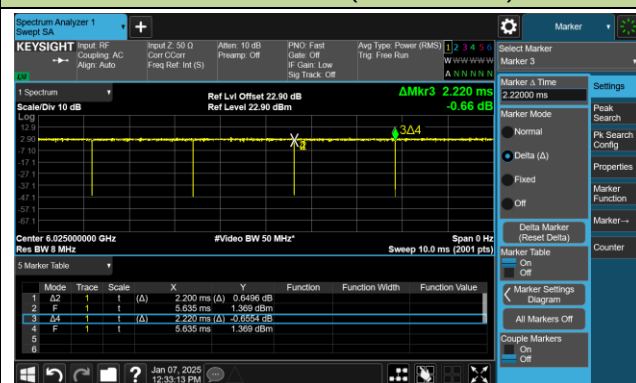
Refer to Appendix A.12.

## Appendix A – Test Result

### A.1 Duty Cycle Test Result

Full RU:

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | SIP-TR1    | Test Engineer | Ryan Wang |
| Test Date | 2025-01-07 |               |           |

| Test Mode                                                                           | Duty Cycle                                                                           |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 802.11ax-HE20                                                                       | 99.58%                                                                               |
| 802.11ax-HE40                                                                       | 99.52%                                                                               |
| 802.11ax-HE80                                                                       | 99.22%                                                                               |
| 802.11ax-HE160                                                                      | 99.10%                                                                               |
| Duty Cycle (T = Transmission Duration)                                              |                                                                                      |
| 802.11ax-HE20 (T = 5.424ms)                                                         | 802.11ax-HE40 (T = 4.806ms)                                                          |
|   |   |
| 802.11ax-HE80 (T = 2.550ms)                                                         | 802.11ax-HE160 (T = 2.200ms)                                                         |
|  |  |

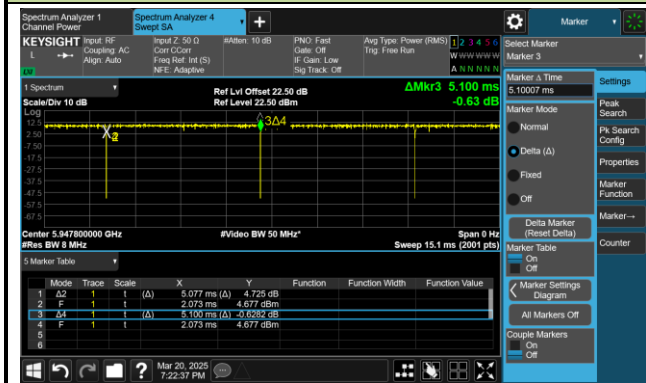
# Partial RU:

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | SIP-TR1    | Test Engineer | Ryan Wang |
| Test Date | 2025-03-20 |               |           |

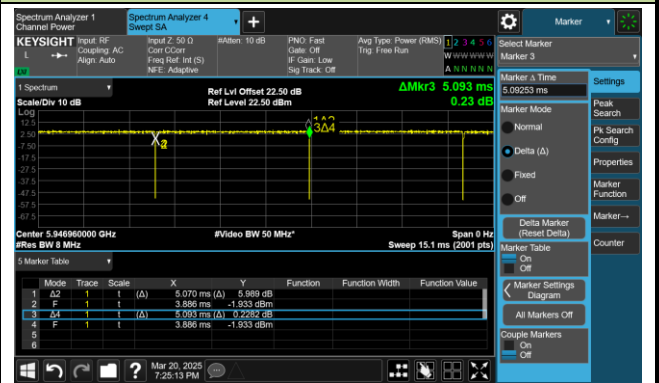
| Test Mode                | Duty Cycle |
|--------------------------|------------|
| 802.11ax-HE20 – 26Tone   | 99.55%     |
| 802.11ax-HE20 – 52Tone   | 99.55%     |
| 802.11ax-HE20 – 106Tone  | 99.52%     |
| 802.11ax-HE40 – 242Tone  | 99.55%     |
| 802.11ax-HE80 – 484Tone  | 99.16%     |
| 802.11ax-HE160 – 996Tone | 98.40%     |

## Duty Cycle (T = Transmission Duration)

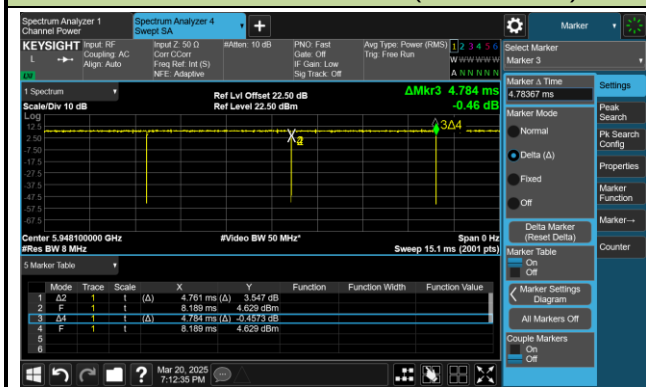
### 802.11ax-HE20 – 26Tone (T = 5.077ms)



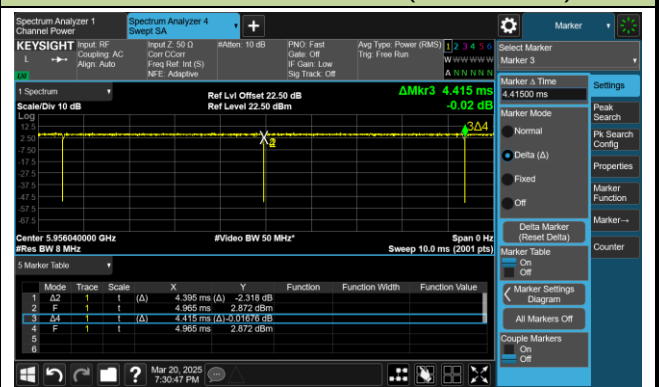
### 802.11ax-HE20 – 52Tone (T = 5.070ms)

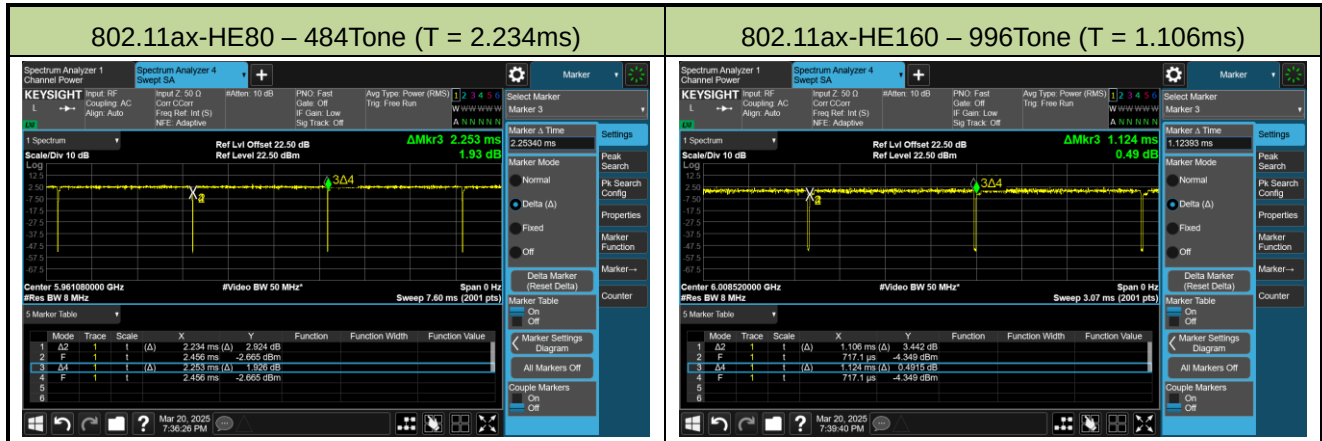


### 802.11ax-HE20 – 106Tone (T = 4.761ms)



### 802.11ax-HE40 – 242Tone (T = 4.395ms)





## A.2 26dB Bandwidth Test Result

### Client operating under the control of an indoor access point

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | SIP-TR1    | Test Engineer | Ryan Wang |
| Test Date | 2025-02-13 |               |           |

| Test Mode     | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 26dB<br>Bandwidth<br>(MHz) | 99%<br>Bandwidth<br>(MHz) | Test Limit<br>(MHz) |
|---------------|-------------------|-------------|--------------------|----------------------------|---------------------------|---------------------|
| 802.11ax-HE20 | MCS0              | 1           | 5955               | 20.51                      | 18.941                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 49          | 6195               | 20.75                      | 18.932                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 93          | 6415               | 20.81                      | 18.916                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 97          | 6435               | 20.81                      | 18.930                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 105         | 6475               | 20.85                      | 18.986                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 113         | 6515               | 20.63                      | 18.963                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 117         | 6535               | 20.61                      | 18.944                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 149         | 6695               | 20.83                      | 18.907                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 181         | 6855               | 20.66                      | 18.947                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 185         | 6875               | 20.86                      | 18.918                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 189         | 6895               | 20.79                      | 18.985                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 209         | 6995               | 20.75                      | 18.906                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 229         | 7095               | 20.91                      | 18.929                    | ≤ 320               |
| 802.11ax-HE20 | MCS0              | 233         | 7115               | 21.13                      | 18.946                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 3           | 5965               | 40.21                      | 37.723                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 51          | 6205               | 40.20                      | 37.786                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 91          | 6405               | 40.28                      | 37.778                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 99          | 6445               | 40.36                      | 37.754                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 107         | 6485               | 40.10                      | 37.836                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 115         | 6525               | 39.85                      | 37.754                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 123         | 6565               | 40.08                      | 37.735                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 147         | 6685               | 40.90                      | 37.825                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 179         | 6845               | 40.31                      | 37.775                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 187         | 6885               | 40.21                      | 37.722                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 195         | 6925               | 40.25                      | 37.721                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 211         | 7005               | 39.79                      | 37.734                    | ≤ 320               |
| 802.11ax-HE40 | MCS0              | 227         | 7085               | 40.57                      | 37.781                    | ≤ 320               |

| Test Mode      | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 26dB<br>Bandwidth<br>(MHz) | 99%<br>Bandwidth<br>(MHz) | Test Limit<br>(MHz) |
|----------------|-------------------|-------------|--------------------|----------------------------|---------------------------|---------------------|
| 802.11ax-HE80  | MCS0              | 7           | 5985               | 81.40                      | 77.204                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 55          | 6225               | 81.63                      | 77.081                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 87          | 6385               | 81.20                      | 77.305                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 103         | 6465               | 81.67                      | 77.111                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 119         | 6545               | 81.51                      | 77.170                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 135         | 6625               | 82.17                      | 77.275                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 151         | 6705               | 81.96                      | 77.147                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 167         | 6785               | 82.08                      | 77.221                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 183         | 6865               | 82.00                      | 77.086                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 199         | 6945               | 81.52                      | 77.109                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 215         | 7025               | 81.49                      | 77.055                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 15          | 6025               | 165.4                      | 155.77                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 47          | 6185               | 166.2                      | 156.22                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 79          | 6345               | 164.6                      | 156.04                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 111         | 6505               | 164.7                      | 155.73                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 143         | 6665               | 165.8                      | 155.98                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 175         | 6825               | 164.6                      | 156.07                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 207         | 6985               | 163.8                      | 156.02                    | ≤ 320               |

Note:

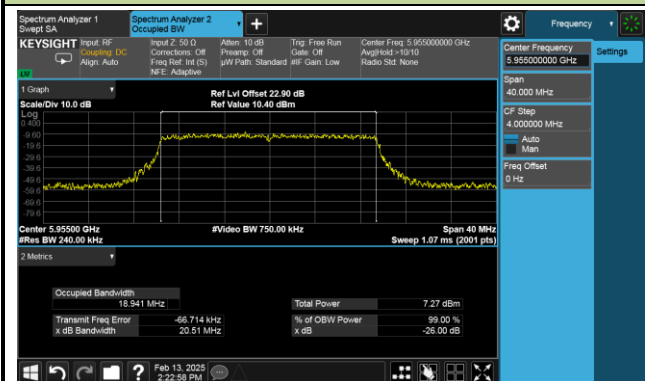
For channels with a nominal bandwidth less than 320 MHz compliance is demonstrated by way of the 26 dB EBW.

For channels with a nominal bandwidth of 320 MHz compliance is demonstrated by way of the 99% BW.

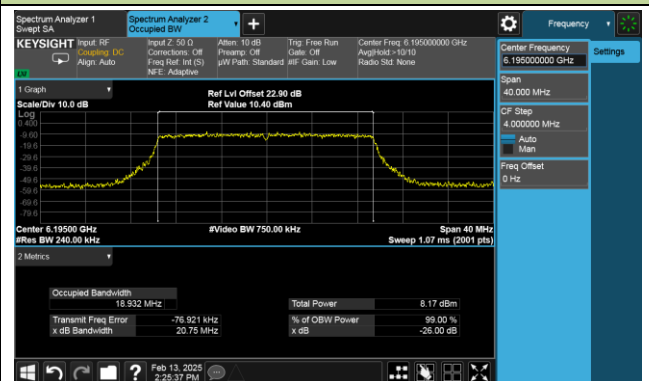


## 802.11ax-HE20 26dB Bandwidth

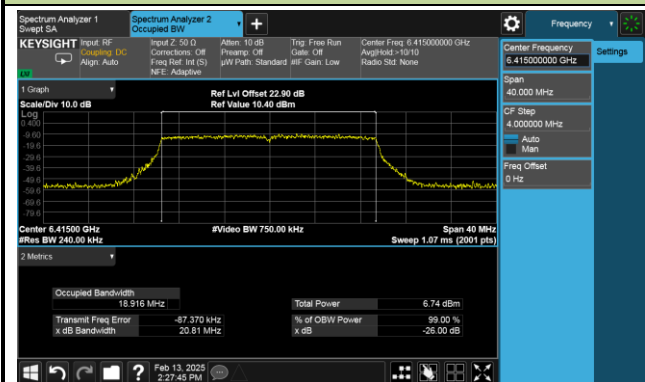
## Channel 1 (5955MHz)



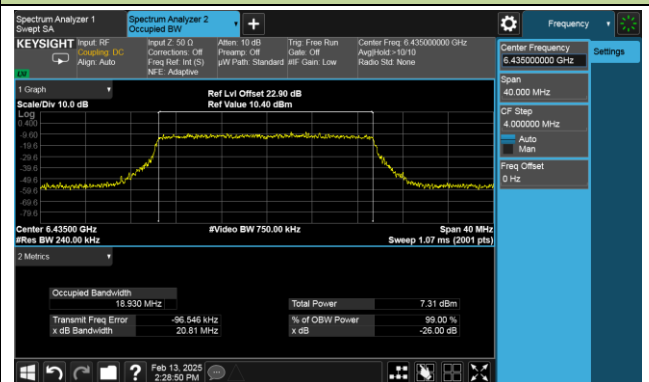
## Channel 49 (6195MHz)



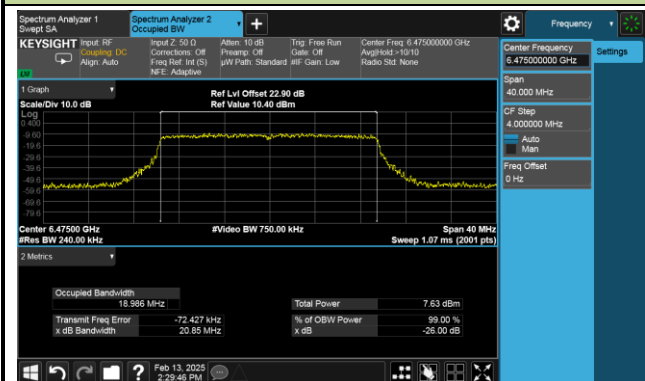
## Channel 93 (6415MHz)



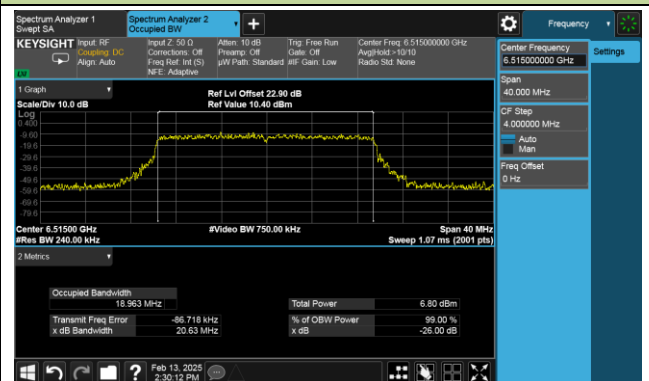
## Channel 97 (6435MHz)



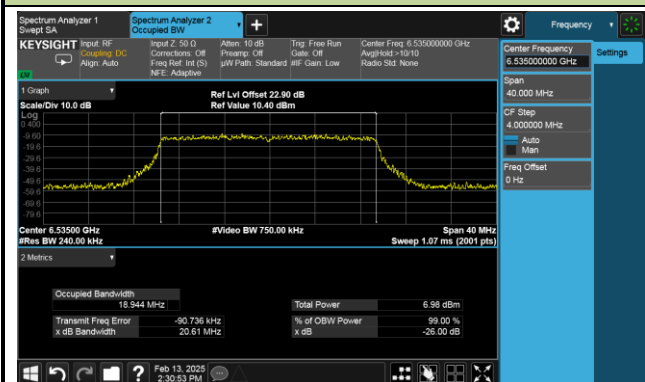
## Channel 105 (6475MHz)



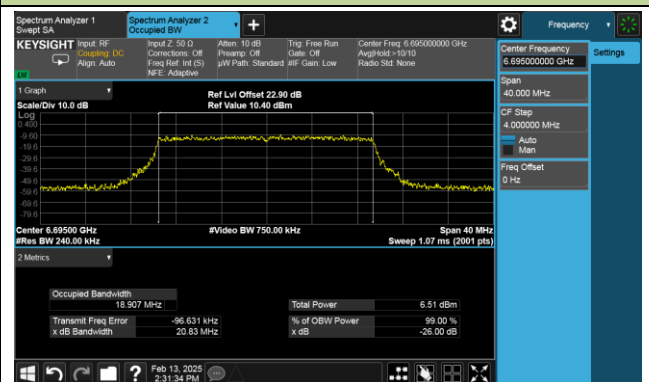
## Channel 113 (6515MHz)



## Channel 117 (6535MHz)

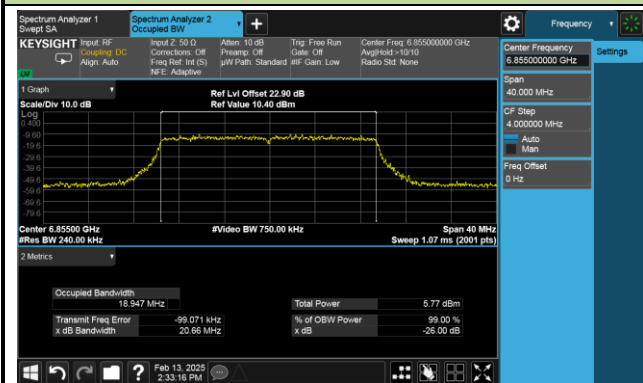


## Channel 149 (6695MHz)

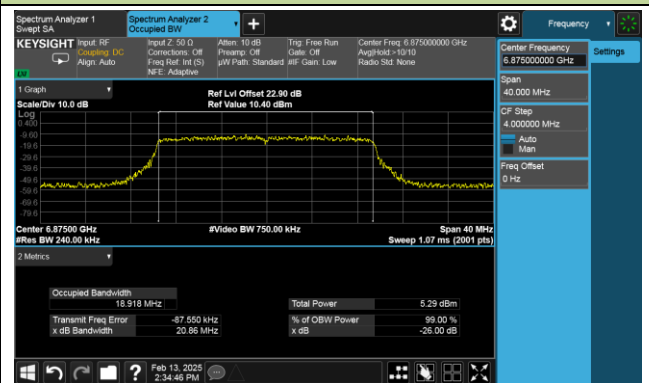


## 802.11ax-HE20 26dB Bandwidth

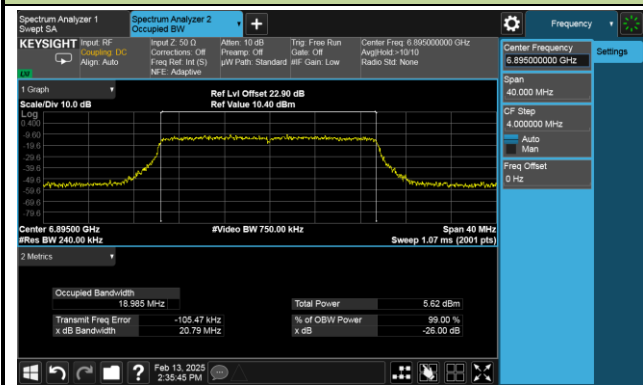
## Channel 181 (6855MHz)



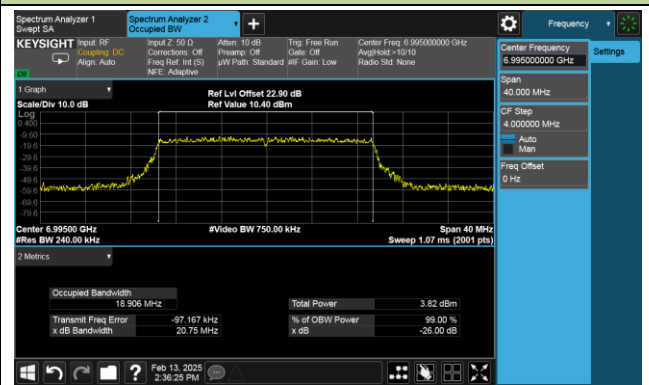
## Channel 185 (6875MHz)



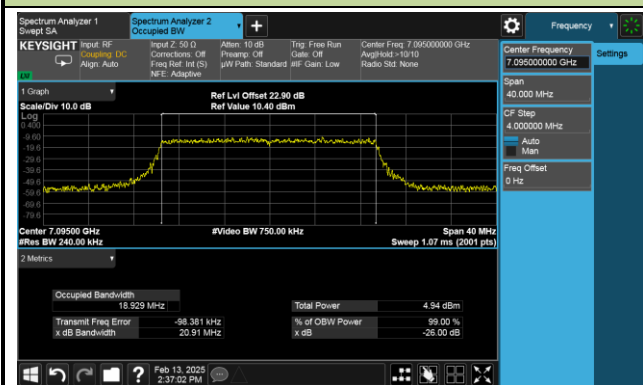
## Channel 189 (6895MHz)



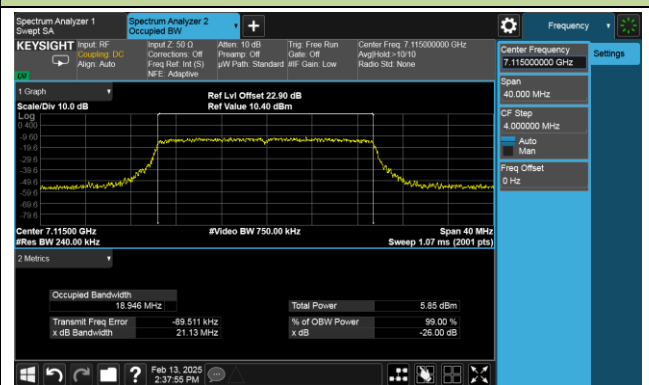
## Channel 209 (6995MHz)



## Channel 229 (7095MHz)

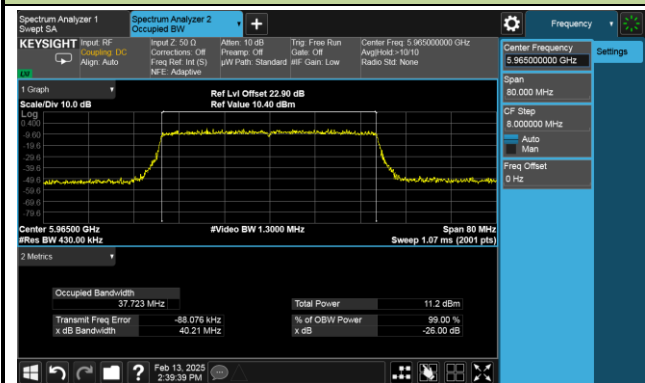


## Channel 223 (7115MHz)

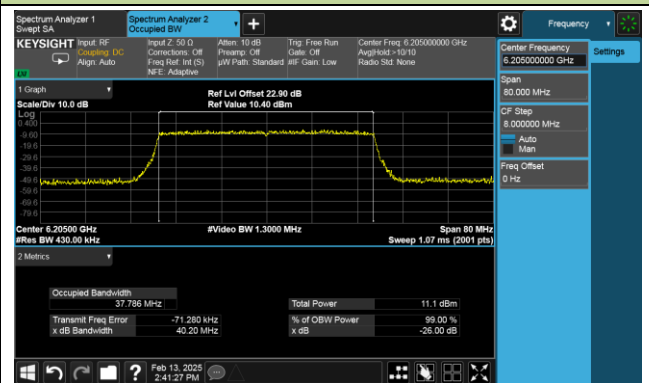


## 802.11ax-HE40 26dB Bandwidth

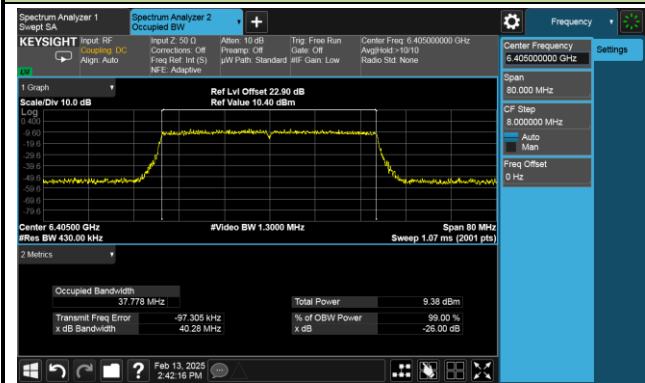
## Channel 3 (5965MHz)



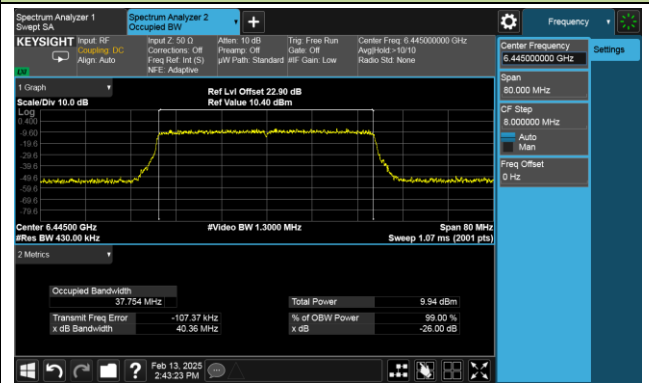
## Channel 51 (6205MHz)



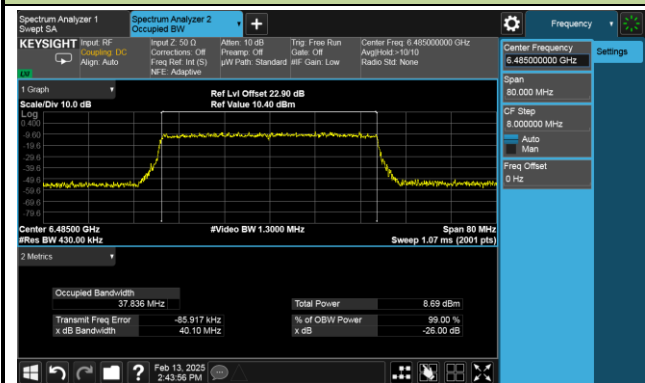
## Channel 91 (6405MHz)



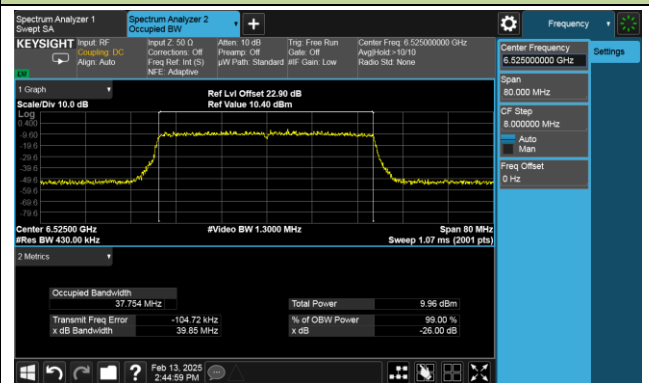
## Channel 99 (6445MHz)



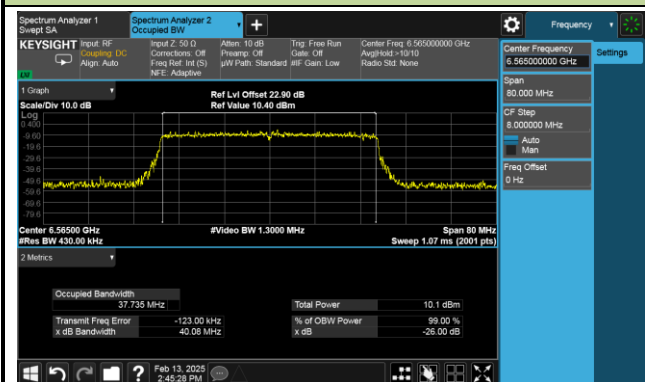
## Channel 107 (6485MHz)



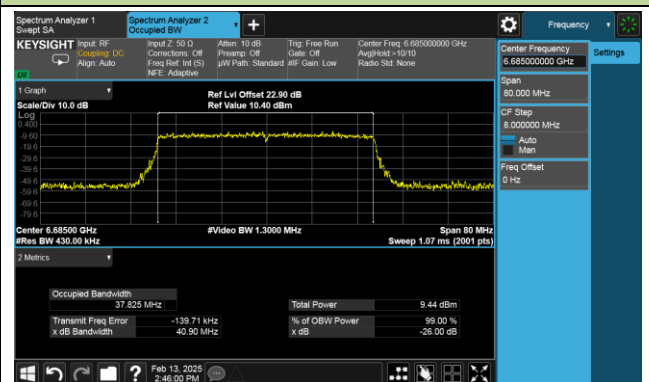
## Channel 115 (6525MHz)



## Channel 123 (6565MHz)

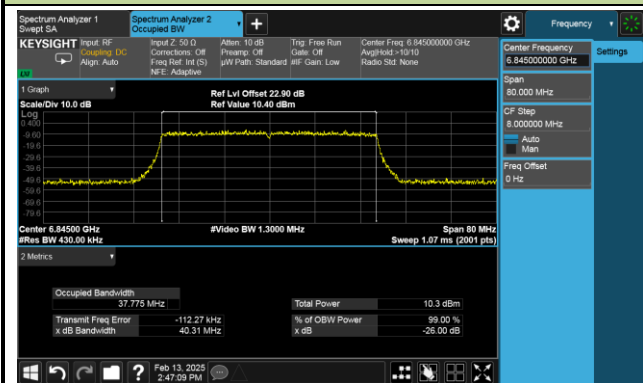


## Channel 147 (6685MHz)

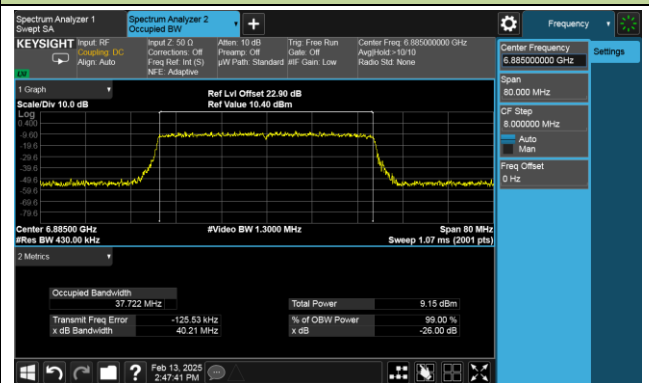


## 802.11ax-HE40 26dB Bandwidth

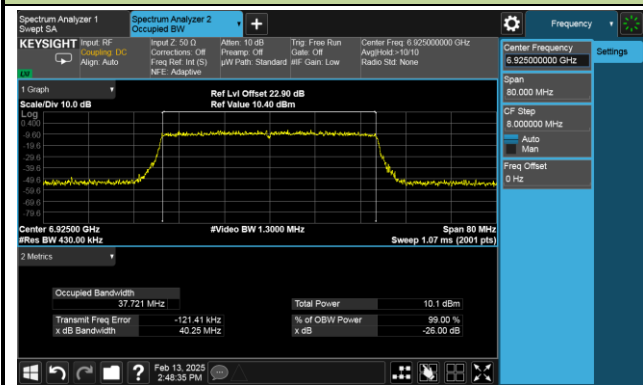
## Channel 179 (6845MHz)



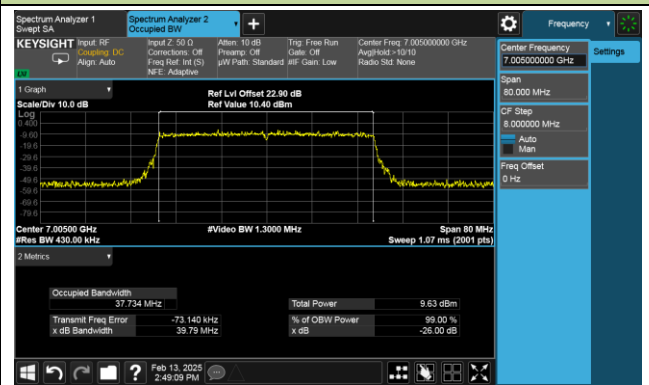
## Channel 187 (6885MHz)



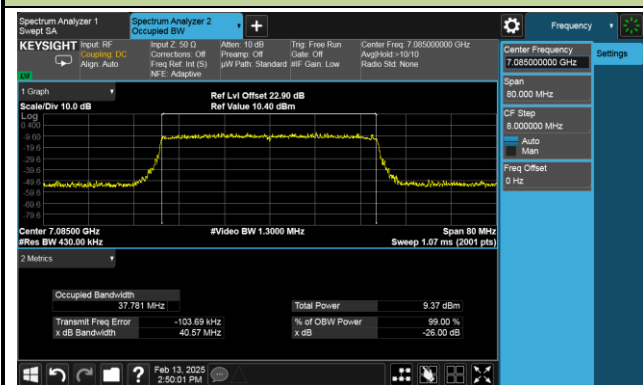
## Channel 195 (6925MHz)



## Channel 211 (7005MHz)

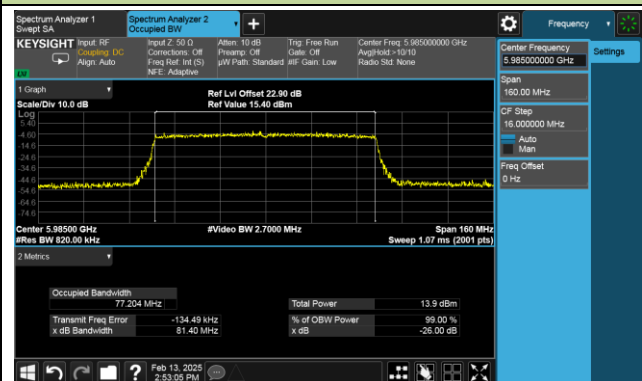


## Channel 227 (7085MHz)

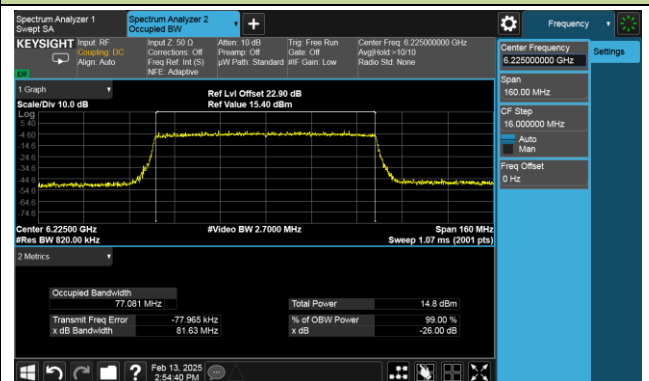


## 802.11ax-HE80 26dB Bandwidth

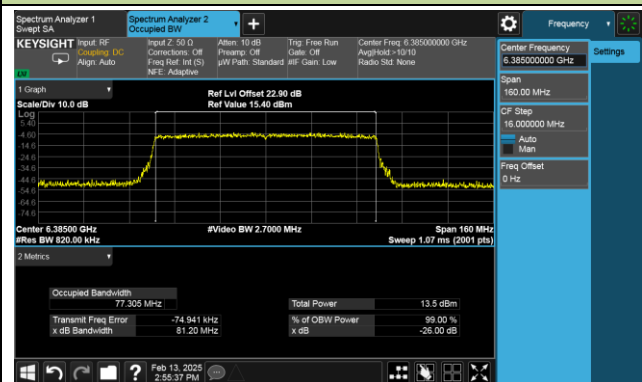
## Channel 7 (5985MHz)



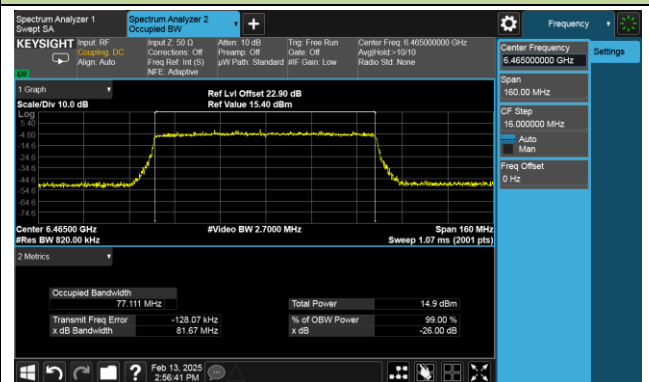
## Channel 55 (6225MHz)



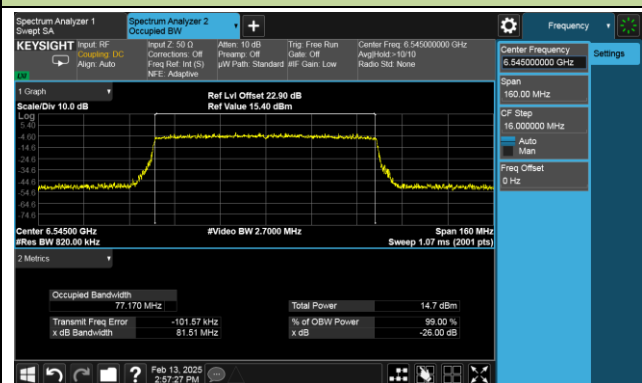
## Channel 87 (6385MHz)



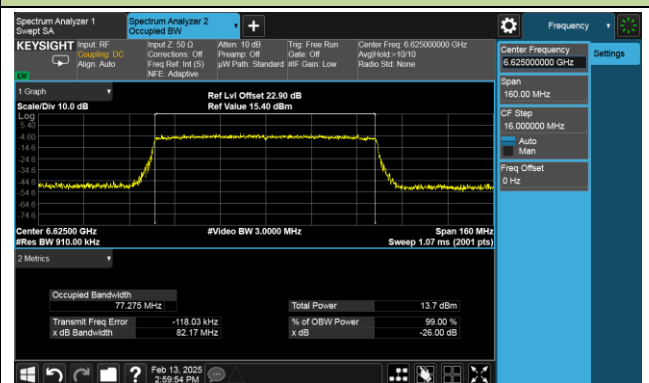
## Channel 103 (6465MHz)



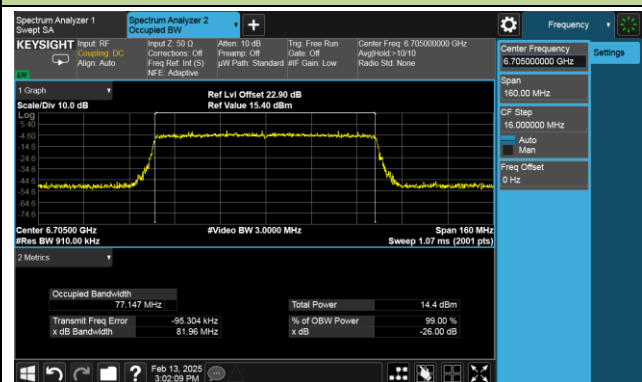
## Channel 119 (6545MHz)



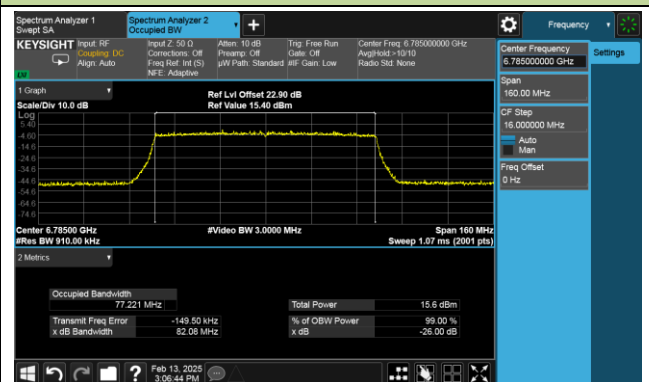
## Channel 135 (6625MHz)



## Channel 151 (6705MHz)

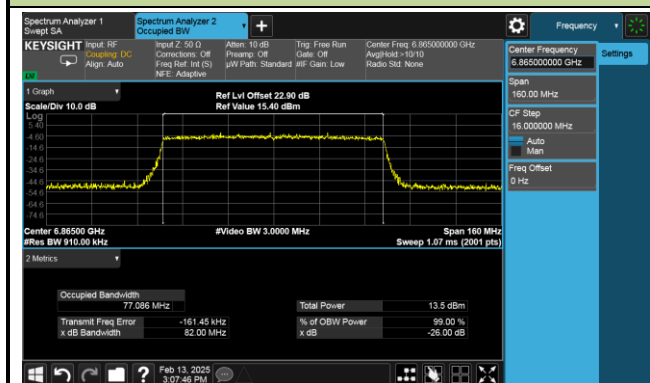


## Channel 167 (6785MHz)

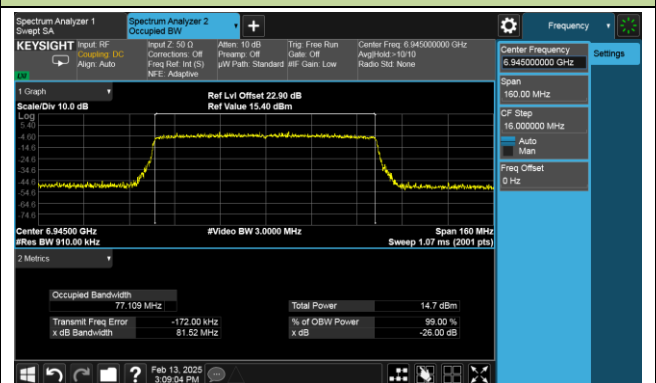


## 802.11ax-HE80 26dB Bandwidth

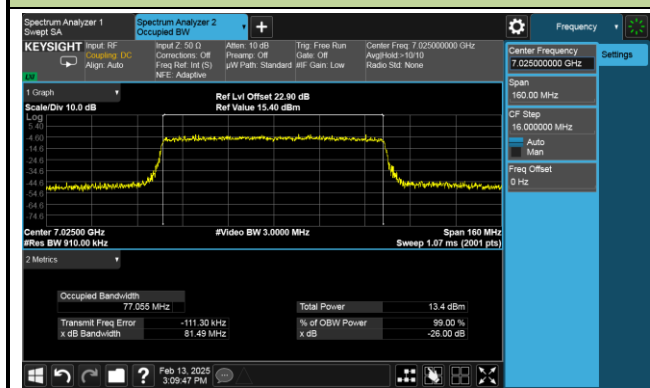
## Channel 183 (6865MHz)



## Channel 199 (6945MHz)

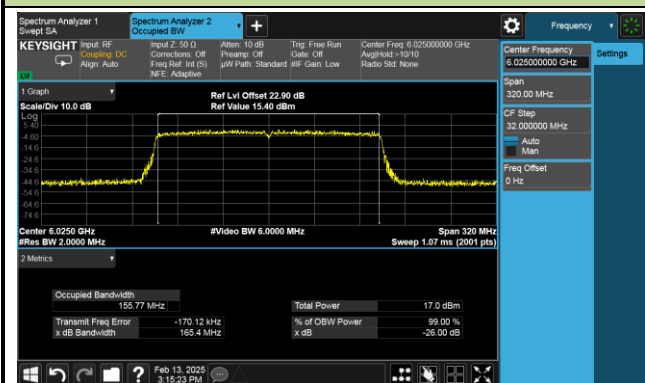


## Channel 215 (7025MHz)

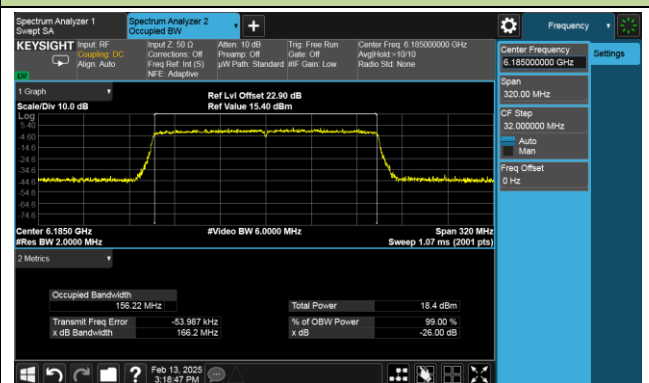


## 802.11ax-HE160 26dB Bandwidth

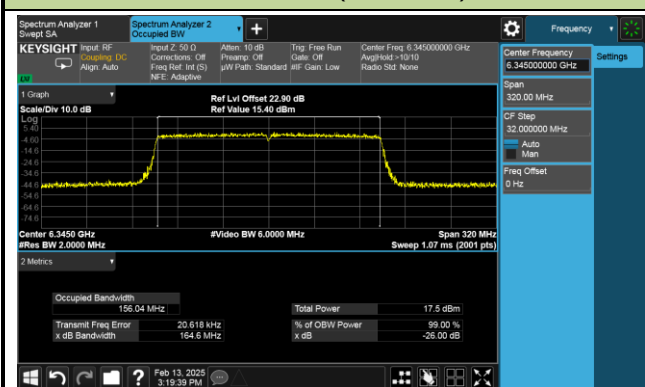
## Channel 15 (6025MHz)



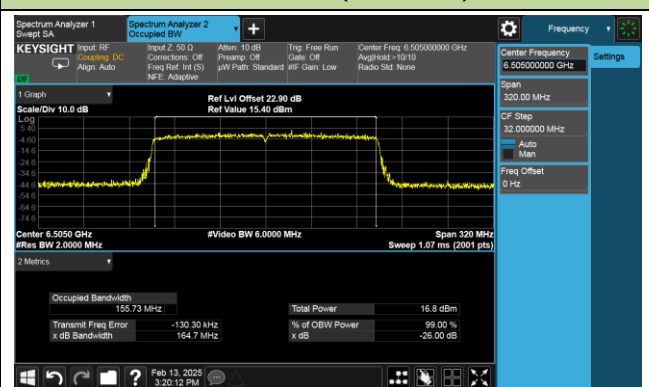
## Channel 47 (6185MHz)



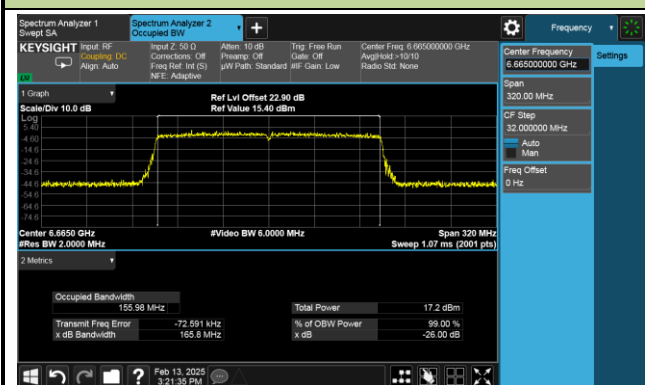
## Channel 79 (6345MHz)



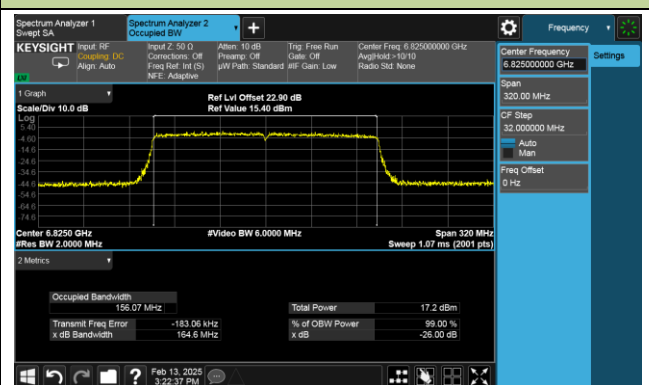
## Channel 111 (6505MHz)



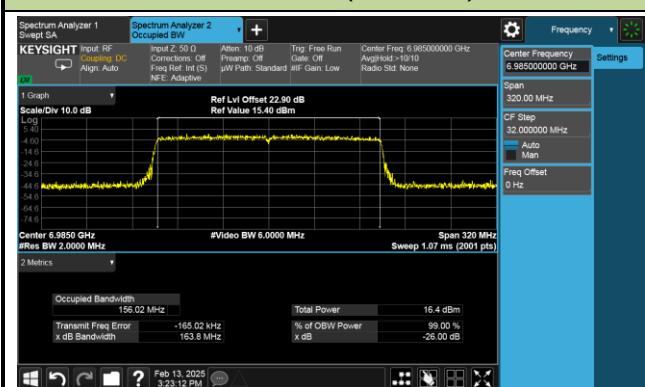
## Channel 143 (6665MHz)



## Channel 175 (6825MHz)



## Channel 207 (6985MHz)



**Client operating under the control of a standard power access point**

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | SIP-TR1    | Test Engineer | Ryan Wang |
| Test Date | 2025-03-06 |               |           |

| Test Mode      | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 26dB<br>Bandwidth<br>(MHz) | 99%<br>Bandwidth<br>(MHz) | Test Limit<br>(MHz) |
|----------------|-------------------|-------------|--------------------|----------------------------|---------------------------|---------------------|
| 802.11ax-HE20  | MCS0              | 1           | 5955               | 21.36                      | 18.911                    | ≤ 320               |
| 802.11ax-HE20  | MCS0              | 49          | 6195               | 20.92                      | 18.927                    | ≤ 320               |
| 802.11ax-HE20  | MCS0              | 93          | 6415               | 20.94                      | 18.946                    | ≤ 320               |
| 802.11ax-HE20  | MCS0              | 117         | 6535               | 20.94                      | 18.929                    | ≤ 320               |
| 802.11ax-HE20  | MCS0              | 149         | 6695               | 21.11                      | 18.935                    | ≤ 320               |
| 802.11ax-HE20  | MCS0              | 181         | 6855               | 20.98                      | 18.963                    | ≤ 320               |
| 802.11ax-HE40  | MCS0              | 3           | 5965               | 40.53                      | 37.676                    | ≤ 320               |
| 802.11ax-HE40  | MCS0              | 51          | 6205               | 40.66                      | 37.723                    | ≤ 320               |
| 802.11ax-HE40  | MCS0              | 91          | 6405               | 40.29                      | 37.754                    | ≤ 320               |
| 802.11ax-HE40  | MCS0              | 123         | 6565               | 40.55                      | 37.746                    | ≤ 320               |
| 802.11ax-HE40  | MCS0              | 147         | 6685               | 40.55                      | 37.776                    | ≤ 320               |
| 802.11ax-HE40  | MCS0              | 179         | 6845               | 40.36                      | 37.727                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 7           | 5985               | 81.65                      | 77.028                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 55          | 6225               | 81.53                      | 77.208                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 87          | 6385               | 81.20                      | 77.185                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 135         | 6625               | 81.59                      | 77.222                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 151         | 6705               | 81.05                      | 77.103                    | ≤ 320               |
| 802.11ax-HE80  | MCS0              | 167         | 6785               | 81.08                      | 77.054                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 15          | 6025               | 165.1                      | 155.96                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 47          | 6185               | 166.6                      | 156.06                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 79          | 6345               | 165.0                      | 156.03                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 111         | 6505               | 164.5                      | 155.93                    | ≤ 320               |
| 802.11ax-HE160 | MCS0              | 143         | 6665               | 164.7                      | 156.12                    | ≤ 320               |

Note:

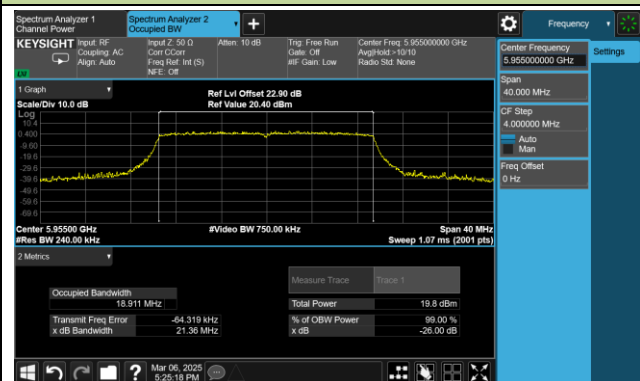
For channels with a nominal bandwidth less than 320 MHz compliance is demonstrated by way of the 26 dB EBW.

For channels with a nominal bandwidth of 320 MHz compliance is demonstrated by way of the 99% BW.

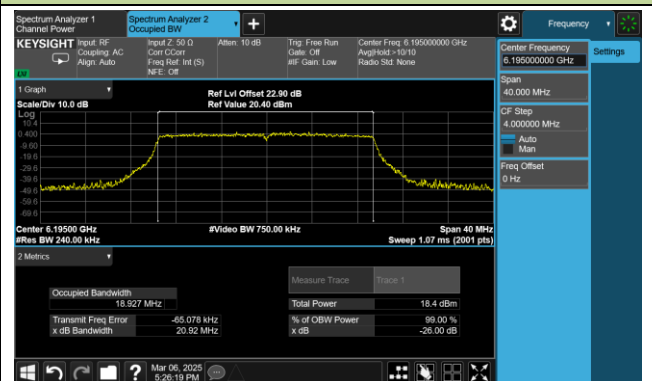


## 802.11ax-HE20 26dB Bandwidth

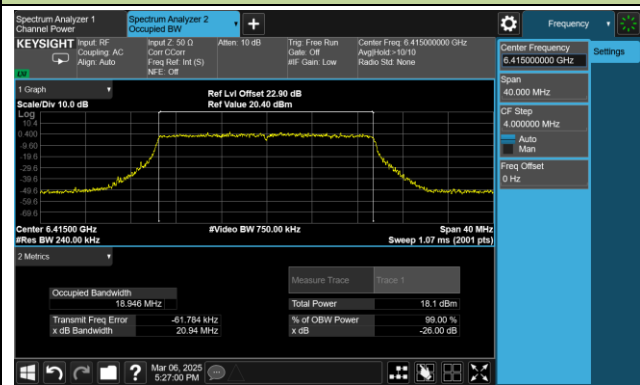
## Channel 1 (5955MHz)



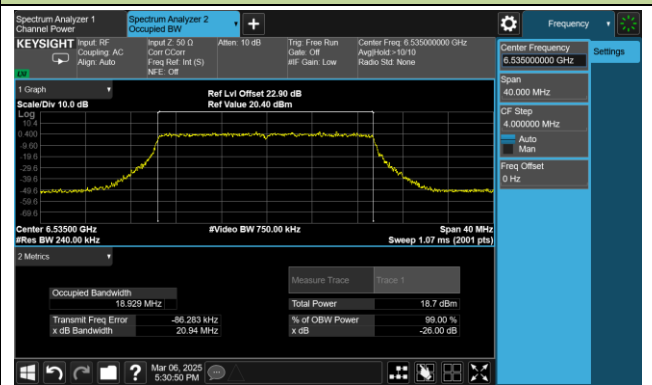
## Channel 49 (6195MHz)



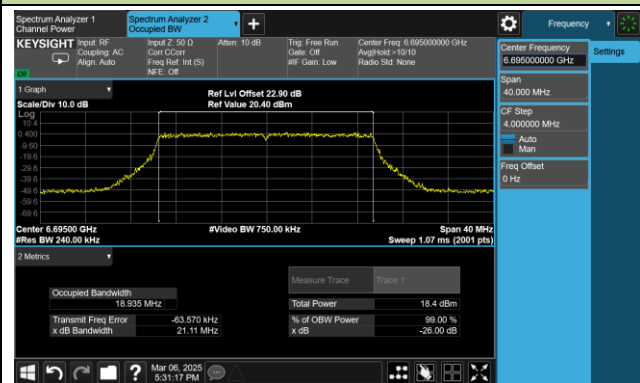
## Channel 93 (6415MHz)



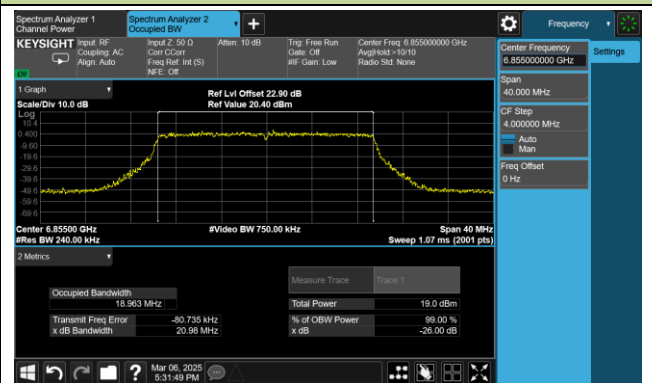
## Channel 117 (6535MHz)



## Channel 149 (6695MHz)

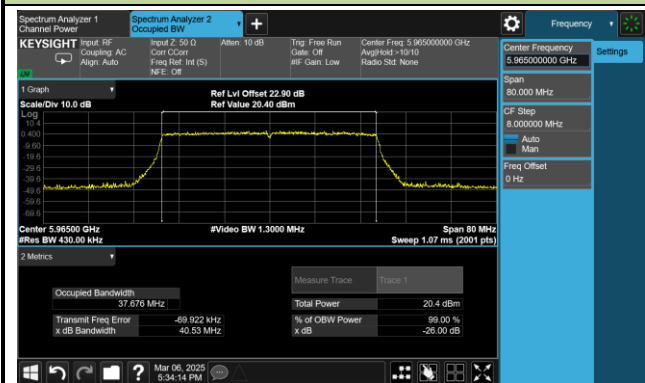


## Channel 181 (6855MHz)

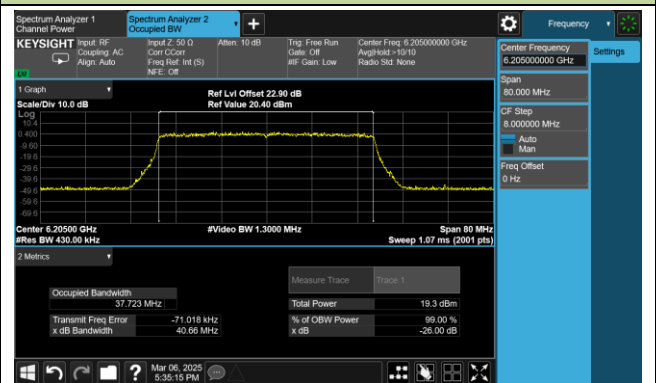


## 802.11ax-HE40 26dB Bandwidth

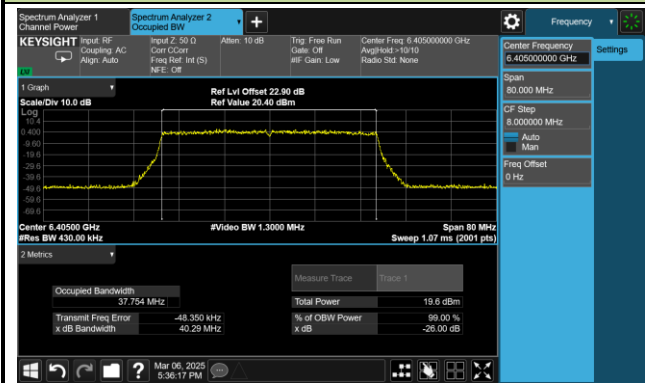
## Channel 3 (5965MHz)



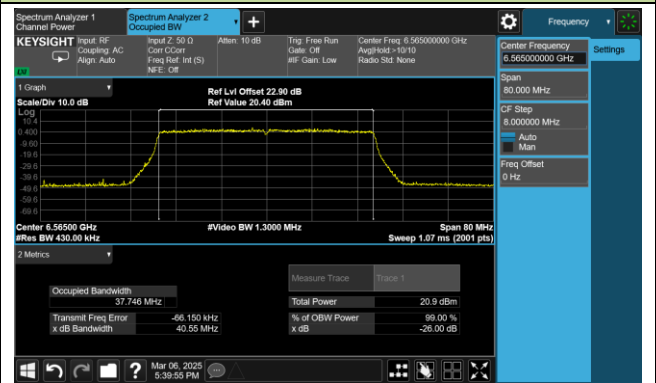
## Channel 51 (6205MHz)



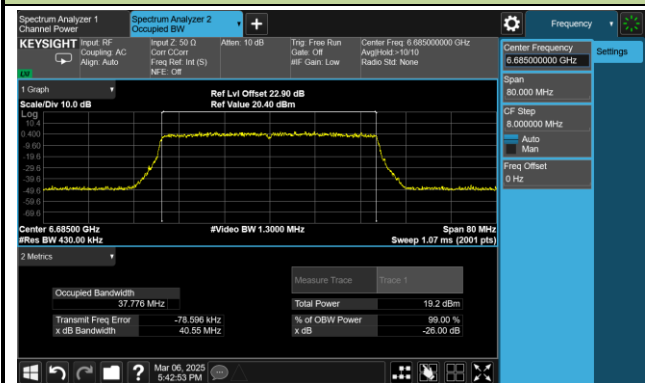
## Channel 91 (6405MHz)



## Channel 123 (6565MHz)



## Channel 147 (6685MHz)



## Channel 179 (6845MHz)

