

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
**Report No.:** RFBARR-WTW-P26020165-5  
**FCC ID:** RAS-MT7928C14L  
**Product:** 2TX 11be (WiFi7) BW160+BT/BLE Combo Card  
**Brand:** MediaTek  
**Model No.:** MT7928C14L  
**Received Date:** 2026/2/21  
**Test Date:** 2026/4/23 ~ 2026/7/18  
**Issued Date:** 2026/8/19  
**Applicant:** MediaTek Inc.  
**Address:** No. 1, Dusing 1st Rd., Hsinchu Science Park, Hsinchu City, 30078 Taiwan  
**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory  
**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan  
**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan  
**FCC Registration /** 723255 / TW2022  
**Designation Number:**

Approved by: \_\_\_\_\_



, Date: \_\_\_\_\_

2026/8/19

Wen Yu / Assistant Manager

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Prepared by : Phoenix Huang / Specialist

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## Release Control Record

| Issue No.              | Description       | Date Issued |
|------------------------|-------------------|-------------|
| RFBARR-WTW-P26020165-5 | Original release. | 2026/8/19   |

## 1 Certificate

**Product:** 2TX 11be (WiFi7) BW160+BT/BLE Combo Card  
**Brand:** MediaTek  
**Test Model:** MT7928C14L  
**Sample Status:** Engineering sample  
**Applicant:** MediaTek Inc.  
**Test Date:** 2026/4/23 ~ 2026/7/18  
**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
**Measurement procedure:** ANSI C63.10-2020  
KDB 789033 D02 General UNII Test Procedure New Rules v02r01  
KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407)                                  |                                |        |                                                                                            |
|---------------------------------------------------------------------------------|--------------------------------|--------|--------------------------------------------------------------------------------------------|
| Clause                                                                          | Test Item                      | Result | Remark                                                                                     |
| 15.407(a)(2)                                                                    | 26 dB Bandwidth                | -      | For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth. |
| 15.407(a)(1)<br>15.407(a)(2)<br>15.407(a)(3)                                    | RF Output Power                | Pass   | Meet the requirement of limit.                                                             |
| 15.407(a)(1)<br>15.407(a)(2)<br>15.407(a)(3)                                    | Power Spectral Density         | Pass   | Meet the requirement of limit.                                                             |
| 15.407(e)                                                                       | 6 dB Bandwidth                 | Pass   | Meet the requirement of limit. (U-NII-3 Band only)                                         |
| ---                                                                             | Occupied Bandwidth             | -      | Reference only.                                                                            |
| 15.407(b)(9)                                                                    | AC Power Conducted Emissions   | Pass   | Minimum passing margin is -15.47 dB at 17.94141 MHz                                        |
| 15.407(b)(9)                                                                    | Unwanted Emissions below 1 GHz | Pass   | Minimum passing margin is -6.3 dB at 36.97 MHz, 37.88 MHz                                  |
| 15.407(b) (1/10)<br>15.407(b) (2/10)<br>15.407(b) (3/10)<br>15.407(b) (4(i)/10) | Unwanted Emissions above 1 GHz | Pass   | Minimum passing margin is -0.01 dB at 5149.26 MHz                                          |
| 15.203                                                                          | Antenna Requirement            | Pass   | Antenna connector is i-pex(MHF), R-SMA not a standard connector.                           |

### Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Parameter                      | Specification    | Expanded Uncertainty<br>(k=2)<br>(±) |
|--------------------------------|------------------|--------------------------------------|
| 26 dB Bandwidth                | -                | 1050.00 Hz                           |
| RF Output Power                | -                | 1.1 dB                               |
| Power Spectral Density         | -                | 1.3 dB                               |
| 6 dB Bandwidth                 | -                | 1050.00 Hz                           |
| Occupied Bandwidth             | -                | 1050.00 Hz                           |
| AC Power Conducted Emissions   | 150 kHz ~ 30 MHz | 1.9 dB                               |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz   | 3.1 dB                               |
|                                | 30 MHz ~ 1 GHz   | 5.1 dB                               |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz   | 5.1 dB                               |
|                                | 18 GHz ~ 40 GHz  | 5.3 dB                               |

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

## 2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                                                                                                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | 2TX 11be (WiFi7) BW160+BT/BLE Combo Card                                                                                                                                                                                                                                           |
| Brand                 | MediaTek                                                                                                                                                                                                                                                                           |
| Test Model            | MT7928C14L                                                                                                                                                                                                                                                                         |
| Status of EUT         | Engineering sample                                                                                                                                                                                                                                                                 |
| Power Supply Rating   | 3.3 Vdc from host equipment                                                                                                                                                                                                                                                        |
| Modulation Type       | 64QAM, 16QAM, QPSK, BPSK for OFDM<br>256QAM for OFDM in 11ac mode<br>1024QAM for OFDMA in 11ax mode<br>4096QAM for OFDMA in 11be mode                                                                                                                                              |
| Modulation Technology | OFDM, OFDMA                                                                                                                                                                                                                                                                        |
| Transfer Rate         | 802.11a: up to 54 Mbps<br>802.11n: up to 300 Mbps<br>802.11ac: up to 1733.3 Mbps<br>802.11ax: up to 2401.9 Mbps<br>802.11be: up to 2882.4 Mbps                                                                                                                                     |
| Operating Frequency   | 5.18 GHz ~ 5.25 GHz<br>5.25 GHz ~ 5.32 GHz<br>5.5 GHz ~ 5.72 GHz<br>5.745 GHz ~ 5.825 GHz                                                                                                                                                                                          |
| Number of Channel     | 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20): 25<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 12<br>802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 6<br>802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160): 2 |
| Partial RU Mode       | Single RU<br>Multi-RU(Static preamble puncturing)                                                                                                                                                                                                                                  |
| Channel Puncturing    | Not support                                                                                                                                                                                                                                                                        |
| Output Power          | 5.18 GHz ~ 5.25 GHz: 249.329 mW (23.97 dBm)<br>5.25 GHz ~ 5.32 GHz: 248.349 mW (23.95 dBm)<br>5.5 GHz ~ 5.72 GHz: 243.83 mW (23.87 dBm)<br>5.745 GHz ~ 5.825 GHz: 343.287 mW (25.36 dBm)                                                                                           |
| EUT Category          | Client device                                                                                                                                                                                                                                                                      |

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission combination.

| Combination | Technology            |                       |                       |
|-------------|-----------------------|-----------------------|-----------------------|
| 1           | WLAN (2.4 GHz)(WIFI1) |                       | WLAN (5 GHz)(WIFI0)   |
| 2           | WLAN (2.4 GHz)(WIFI1) |                       | WLAN (5.9 GHz)(WIFI0) |
| 3           | WLAN (2.4 GHz)(WIFI1) |                       | WLAN (6 GHz)(WIFI0)   |
| 4           | BT(BT0)               |                       | BT(BT1)               |
| 5           | WLAN (2.4 GHz)(2T)    |                       | BT (BT0)              |
| 6           | WLAN (2.4 GHz)(WIFI0) |                       | BT(BT0) + BT(BT1)     |
| 7           | WLAN (2.4 GHz)(WIFI0) |                       | BT(BT0)               |
| 8           | WLAN (2.4 GHz)(WIFI0) |                       | BT(BT1)               |
| 9           | WLAN (2.4 GHz)(WIFI1) |                       | BT(BT1)               |
| 10          | WLAN (5 GHz) (2T)     |                       | BT(BT0) + BT(BT1)     |
| 11          | WLAN (5 GHz) (2T)     |                       | BT (1T) <BT0 or BT1>  |
| 12          | WLAN (5 GHz) (1T)     |                       | BT(BT0) + BT(BT1)     |
| 13          | WLAN (5 GHz) (1T)     |                       | BT (1T) <BT0 or BT1>  |
| 14          | WLAN (5.9 GHz) (2T)   |                       | BT(BT0) + BT(BT1)     |
| 15          | WLAN (5.9 GHz) (2T)   |                       | BT (1T) <BT0 or BT1>  |
| 16          | WLAN (5.9 GHz) (1T)   |                       | BT(BT0) + BT(BT1)     |
| 17          | WLAN (5.9 GHz) (1T)   |                       | BT (1T) <BT0 or BT1>  |
| 18          | WLAN (6 GHz) (2T)     |                       | BT(BT0) + BT(BT1)     |
| 19          | WLAN (6 GHz) (2T)     |                       | BT (1T) <BT0 or BT1>  |
| 20          | WLAN (6 GHz) (1T)     |                       | BT(BT0) + BT(BT1)     |
| 21          | WLAN (6 GHz) (1T)     |                       | BT (1T) <BT0 or BT1>  |
| Combination | Technology            |                       |                       |
| 22          | WLAN (2.4 GHz)(WIFI1) | WLAN (5 GHz)(WIFI0)   | BT(BT1)               |
| 23          | WLAN (2.4 GHz)(WIFI1) | WLAN (5.9 GHz)(WIFI0) | BT(BT1)               |
| 24          | WLAN (2.4 GHz)(WIFI1) | WLAN (6 GHz)(WIFI0)   | BT(BT1)               |

Note:

1. The emission of the simultaneous operation has been evaluated and no non-compliance was found.
2. BT0 and BT1 cannot operate on the same frequency simultaneously.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Ant. No. | RF Chain No. | Brand  | Model              | Ant. Net Gain (dBi)                          | Frequency Range (GHz)                                                                | Ant. Type | Connector Type                  | Cable Length (mm) | Cable Loss (dB)                        | Excluding Cable Loss Ant. Gain (dBi)        |
|----------|--------------|--------|--------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-----------|---------------------------------|-------------------|----------------------------------------|---------------------------------------------|
| 1        | Chain0       | PSA    | RFMTA340718EMLB302 | 3.18<br>4.92                                 | 2.4~2.4835<br>5.15~5.895                                                             | PIFA      | i-pex(MHF)                      | 200               | -                                      | -                                           |
|          | Chain1       | PSA    | RFMTA340718EMLB302 | 3.18<br>4.92                                 | 2.4~2.4835<br>5.15~5.895                                                             | PIFA      | i-pex(MHF)                      | 200               | -                                      | -                                           |
| 2        | Chain0       | PSA    | RFMTA311020EMMB301 | 1.71<br>4.82<br>4.76<br>4.29<br>4.61<br>4.09 | 2.4~2.4835<br>5.15~5.895<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | PIFA      | i-pex(MHF)                      | 200               | -                                      | -                                           |
|          | Chain1       | PSA    | RFMTA311020EMMB301 | 1.71<br>4.82<br>4.76<br>4.29<br>4.61<br>4.09 | 2.4~2.4835<br>5.15~5.895<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | PIFA      | i-pex(MHF)                      | 200               | -                                      | -                                           |
| 3        | Chain0       | VSO    | JR2Q00340-1        | 1.62<br>3.2<br>3.93<br>3.61<br>3.61<br>3.14  | 2.4~2.4835<br>5.15~5.895<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | Dipole    | R-SMA (RF cable: R-SMA to Ipex) | 40                | 0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5 | 2.12<br>3.7<br>4.43<br>4.11<br>4.11<br>3.64 |
|          | Chain1       | VSO    | JR2Q00340-1        | 1.62<br>3.2<br>3.93<br>3.61<br>3.61<br>3.14  | 2.4~2.4835<br>5.15~5.895<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | Dipole    | R-SMA (RF cable: R-SMA to Ipex) | 40                | 0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5 | 2.12<br>3.7<br>4.43<br>4.11<br>4.11<br>3.64 |
| 4        | Chain0       | Cortec | AM2450-4902BRS     | 2.42<br>3.87                                 | 2.4~2.4835<br>5.15~5.895                                                             | Dipole    | R-SMA (RF cable: R-SMA to Ipex) | 150               | 0.5<br>0.8                             | 2.92<br>4.67                                |
|          | Chain1       | Cortec | AM2450-4902BRS     | 2.42<br>3.87                                 | 2.4~2.4835<br>5.15~5.895                                                             | Dipole    | R-SMA (RF cable: R-SMA to Ipex) | 150               | 0.5<br>0.8                             | 2.92<br>4.67                                |

\* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

| 5 GHz Band                                                                                     |                       |     |
|------------------------------------------------------------------------------------------------|-----------------------|-----|
| Modulation Mode                                                                                | TX & RX Configuration |     |
| 802.11a                                                                                        | 2Tx/1Tx Diversity     | 2RX |
| 802.11n (HT20)                                                                                 | 2Tx/1Tx Diversity     | 2RX |
| 802.11n (HT40)                                                                                 | 2Tx/1Tx Diversity     | 2RX |
| 802.11ac (VHT20)                                                                               | 2Tx/1Tx Diversity     | 2RX |
| 802.11ac (VHT40)                                                                               | 2Tx/1Tx Diversity     | 2RX |
| 802.11ac (VHT80)                                                                               | 2Tx/1Tx Diversity     | 2RX |
| 802.11ac (VHT160)                                                                              | 2Tx/1Tx Diversity     | 2RX |
| 802.11ax (HE20)                                                                                | 2Tx/1Tx Diversity     | 2RX |
| 802.11ax (HE40)                                                                                | 2Tx/1Tx Diversity     | 2RX |
| 802.11ax (HE80)                                                                                | 2Tx/1Tx Diversity     | 2RX |
| 802.11ax (HE160)                                                                               | 2Tx/1Tx Diversity     | 2RX |
| 802.11be (EHT20)                                                                               | 2Tx/1Tx Diversity     | 2RX |
| 802.11be (EHT40)                                                                               | 2Tx/1Tx Diversity     | 2RX |
| 802.11be (EHT80)                                                                               | 2Tx/1Tx Diversity     | 2RX |
| 802.11be (EHT160)                                                                              | 2Tx/1Tx Diversity     | 2RX |
| 802.11ax<br>(RU26/52/106/242/484/996/2*996)                                                    | 2Tx/1Tx Diversity     | 2RX |
| 802.11be<br>(RU26/52/106/242/484/996/2*996<br>MRU52+26/106+26/<br>484+242/996+484/996+484+242) | 2Tx/1Tx Diversity     | 2RX |

Note: After investigation, 802.11be mode 20 MHz (40 MHz, 80 MHz, 160 MHz) represents the worst mode in the report since the power setting is the same or higher than 802.11n mode 20 MHz (40 MHz) and 802.11ac/ax mode 20 MHz (40 MHz, 80 MHz, 160 MHz), and the modulation type and bandwidth are all similar.

### 3.3 MRU Configuration

| Small MRU   |                     |
|-------------|---------------------|
| Tone-plan   | EUT supported (Y/N) |
| 52+26-tone  | Yes                 |
| 106+26-tone | Yes                 |

Note: The EUT supports both 52+26-tone and 106+26-tone small MRU tone-plans across all applicable bandwidths (20/40/80/160 MHz). The detailed MRU allocations are defined in the IEEE 802.11be specification. The worst-case configuration identified during pretest is presented in this report.

| EHT PPDU Large MRU/ Preamble Puncturing Configuration |                  |           |                              |           |                          |
|-------------------------------------------------------|------------------|-----------|------------------------------|-----------|--------------------------|
| PPDU BW (MHz)                                         | Tone-plan        | MRU index | RU allocation                | MRU (Y/N) | Channel puncturing (Y/N) |
| 80                                                    | 484+242-tone     | 1         | 242@s2 + 484@s3-4            | Yes       | No                       |
|                                                       |                  | 2         | 242@s1 + 484@s3-4            | Yes       | No                       |
|                                                       |                  | 3         | 484@s1-2 + 242@s4            | Yes       | No                       |
|                                                       |                  | 4         | 484@s1-2 + 242@s3            | Yes       | No                       |
| 160                                                   | 996+484-tone     | 1         | 484@s3-4 + 996@s5-8          | Yes       | No                       |
|                                                       |                  | 2         | 484@s1-2 + 996@s5-8          | Yes       | No                       |
|                                                       |                  | 3         | 996@s1-4 + 484@s7-8          | Yes       | No                       |
|                                                       |                  | 4         | 996@s1-4 + 484@s5-6          | Yes       | No                       |
|                                                       | 996+484+242-tone | 1         | 242@s2 + 484@s3-4 + 996@s5-8 | Yes       | No                       |
|                                                       |                  | 2         | 242@s1 + 484@s3-4 + 996@s5-8 | Yes       | No                       |
|                                                       |                  | 3         | 484@s1-2 + 242@s4 + 996@s5-8 | Yes       | No                       |
|                                                       |                  | 4         | 484@s1-2 + 242@s3 + 996@s5-8 | Yes       | No                       |
|                                                       |                  | 5         | 996@s1-4 + 242@s6 + 484@s7-8 | Yes       | No                       |
|                                                       |                  | 6         | 996@s1-4 + 242@s5 + 484@s7-8 | Yes       | No                       |
|                                                       |                  | 7         | 996@s1-4 + 484@s5-6 + 242@s8 | Yes       | No                       |
|                                                       |                  | 8         | 996@s1-4 + 484@s5-6 + 242@s7 | Yes       | No                       |

Note: For an EHT PPDU with a bandwidth of 80, 160 MHz, the occupied bandwidth is divided into 20-MHz subchannels (242-tone RU slots), indexed from low frequency to high frequency as s1, s2, ..., sN, where N = 4 for 80 MHz, and N = 8 for 160 MHz. In the RU allocation column, 242 denotes a 242-tone RU, 484 denotes a 484-tone RU, and 996 denotes a 996-tone RU. A 242-tone RU corresponds to one 20-MHz subchannel, a 484-tone RU corresponds to two adjacent 20-MHz subchannels, and a 996-tone RU corresponds to four adjacent 20-MHz subchannels. The MRU index definitions are based on the IEEE 802.11be specification.

The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified. (The worst case data were presented in section 3.5)

### 3.4 Channel List

#### FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 52      | 5260 MHz  |
| 40      | 5200 MHz  | 56      | 5280 MHz  |
| 44      | 5220 MHz  | 60      | 5300 MHz  |
| 48      | 5240 MHz  | 64      | 5320 MHz  |

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 54      | 5270 MHz  |
| 46      | 5230 MHz  | 62      | 5310 MHz  |

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 42      | 5210 MHz  | 58      | 5290 MHz  |

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

| Channel | Frequency |
|---------|-----------|
| 50      | 5250 MHz  |

#### FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 124     | 5620 MHz  |
| 104     | 5520 MHz  | 128     | 5640 MHz  |
| 108     | 5540 MHz  | 132     | 5660 MHz  |
| 112     | 5560 MHz  | 136     | 5680 MHz  |
| 116     | 5580 MHz  | 140     | 5700 MHz  |
| 120     | 5600 MHz  | 144     | 5720 MHz  |

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630 MHz  |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  | 142     | 5710 MHz  |

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 138     | 5690 MHz  |
| 122     | 5610 MHz  |         |           |

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

| Channel | Frequency |
|---------|-----------|
| 114     | 5570 MHz  |

# **FOR 5745 ~ 5825 MHz:**

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 149     | 5745 MHz  | 161     | 5805 MHz  |
| 153     | 5765 MHz  | 165     | 5825 MHz  |
| 157     | 5785 MHz  |         |           |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 151     | 5755 MHz  | 159     | 5795 MHz  |

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

| Channel | Frequency |
|---------|-----------|
| 155     | 5775 MHz  |

### 3.5 Test Mode Applicability and Tested Channel Detail

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Scan: | <p>1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).</p> <p>2. The worst-case Partial RU modes across all supported bandwidth modes has been determined via pre-scan. The worst case occurs in 20 MHz bandwidth (RU 26/52/106).</p> <p>3. For 1TX diversity configuration, transmit chain 0 and chain 1 have been evaluated, the chain 0 was the worst case and chosen for representative test.</p> |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Following channel(s) was (were) selected for the final test as listed below:

| Test Item       | EUT Configure Mode | Mode                                   | Signal Mode | Tested Channel                 | Modulation | Data Rate Parameter | RU/MRU Index   |
|-----------------|--------------------|----------------------------------------|-------------|--------------------------------|------------|---------------------|----------------|
| 26 dB Bandwidth | A                  | 802.11a                                | 1Tx / 2Tx   | 52, 60, 64, 100, 116, 140, 144 | BPSK       | 6Mb/s               | NA             |
|                 |                    | 802.11be (EHT20)                       | 1S1T / 2S2T | 52, 60, 64, 100, 116, 140, 144 | BPSK       | MCS0                | NA             |
|                 |                    | 802.11be (EHT40)                       | 1S1T / 2S2T | 54, 62, 102, 118, 134, 142     | BPSK       | MCS0                | NA             |
|                 |                    | 802.11be (EHT80)                       | 1S1T / 2S2T | 58, 106, 122, 138              | BPSK       | MCS0                | NA             |
|                 |                    | 802.11be (EHT160)                      | 1S1T / 2S2T | 50, 114                        | BPSK       | MCS0                | NA             |
|                 |                    | 802.11be (EHT20) 26-tone RU            | 1S1T / 2S2T | 64, 100, 140, 144              | BPSK       | MCS0                | 8, 0, 8, 8     |
|                 |                    | 802.11be (EHT20) 52-tone RU            | 1S1T / 2S2T | 64, 100, 140, 144              | BPSK       | MCS0                | 40, 37, 40, 40 |
|                 |                    | 802.11be (EHT20) 106-tone RU           | 1S1T / 2S2T | 64, 100, 140, 144              | BPSK       | MCS0                | 54, 53, 54, 54 |
|                 |                    | 802.11be (EHT20) 52+26-tone MRU        | 1S1T / 2S2T | 64, 100, 140, 144              | BPSK       | MCS0                | 72, 70, 72, 72 |
|                 |                    | 802.11be (EHT20) 106+26-tone MRU       | 1S1T / 2S2T | 64, 100, 140, 144              | BPSK       | MCS0                | 83, 82, 83, 83 |
|                 |                    | 802.11be (EHT80) 484+242-tone MRU      | 1S1T / 2S2T | 58, 106, 122, 138              | BPSK       | MCS0                | 91, 92, 91, 91 |
|                 |                    | 802.11be (EHT160) 996+484-tone MRU     | 1S1T / 2S2T | 50, 114                        | BPSK       | MCS0                | 95-1, 94-1     |
|                 |                    | 802.11be (EHT160) 996+484+242-tone MRU | 1S1T / 2S2T | 50, 114                        | BPSK       | MCS0                | 99-1, 97-1     |

| Test Item          | EUT<br>Configure<br>Mode | Mode                            | Signal Mode | Tested Channel                                                     | Modulation | Data Rate<br>Parameter | RU/MRU<br>Index                  |
|--------------------|--------------------------|---------------------------------|-------------|--------------------------------------------------------------------|------------|------------------------|----------------------------------|
| RF Output<br>Power | A                        | 802.11a                         | 1Tx / 2Tx   | 36, 40, 48, 52,<br>60, 64, 100, 116,<br>140, 144, 149,<br>157, 165 | BPSK       | 6Mb/s                  | NA                               |
|                    |                          | 802.11ac (VHT20)                | 1S1T / 2S2T | 36, 40, 48, 52,<br>60, 64, 100, 116,<br>140, 144, 149,<br>157, 165 | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11ac (VHT40)                | 1S1T / 2S2T | 38, 46, 54, 62,<br>102, 118, 134,<br>142, 151, 159                 | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11ac (VHT80)                | 1S1T / 2S2T | 42, 58, 106, 122,<br>138, 155                                      | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11ac (VHT160)               | 1S1T / 2S2T | 50, 114                                                            | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11ax (HE20)                 | 1S1T / 2S2T | 36, 40, 48, 52,<br>60, 64, 100, 116,<br>140, 144, 149,<br>157, 165 | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11ax (HE40)                 | 1S1T / 2S2T | 38, 46, 54, 62,<br>102, 118, 134,<br>142, 151, 159                 | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11ax (HE80)                 | 1S1T / 2S2T | 42, 58, 106, 122,<br>138, 155                                      | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11ax (HE160)                | 1S1T / 2S2T | 50, 114                                                            | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11be (EHT20)                | 1S1T / 2S2T | 36, 40, 48, 52,<br>60, 64, 100, 116,<br>140, 144, 149,<br>157, 165 | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11be (EHT40)                | 1S1T / 2S2T | 38, 46, 54, 62,<br>102, 118, 134,<br>142, 151, 159                 | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11be (EHT80)                | 1S1T / 2S2T | 42, 58, 106, 122,<br>138, 155                                      | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11be (EHT160)               | 1S1T / 2S2T | 50, 114                                                            | BPSK       | MCS0                   | NA                               |
|                    |                          | 802.11ax (HE20)<br>26-tone RU   | 1S1T / 2S2T | 36, 64, 100, 140,<br>144, 149, 165                                 | BPSK       | MCS0                   | 0, 8, 0, 8, 8,<br>0, 8           |
|                    |                          | 802.11ax (HE20)<br>52-tone RU   | 1S1T / 2S2T | 36, 64, 100, 140,<br>144, 149, 165                                 | BPSK       | MCS0                   | 37, 40, 37,<br>40, 40, 37,<br>40 |
|                    |                          | 802.11ax (HE20)<br>106-tone RU  | 1S1T / 2S2T | 36, 64, 100, 140,<br>144, 149, 165                                 | BPSK       | MCS0                   | 53, 54, 53,<br>54, 54, 53,<br>54 |
|                    |                          | 802.11be (EHT20)<br>26-tone RU  | 1S1T / 2S2T | 36, 64, 100, 140,<br>144, 149, 165                                 | BPSK       | MCS0                   | 0, 8, 0, 8, 8,<br>0, 8           |
|                    |                          | 802.11be (EHT20)<br>52-tone RU  | 1S1T / 2S2T | 36, 64, 100, 140,<br>144, 149, 165                                 | BPSK       | MCS0                   | 37, 40, 37,<br>40, 40, 37,<br>40 |
|                    |                          | 802.11be (EHT20)<br>106-tone RU | 1S1T / 2S2T | 36, 64, 100, 140,<br>144, 149, 165                                 | BPSK       | MCS0                   | 53, 54, 53,<br>54, 54, 53,<br>54 |

| Test Item              | EUT Configure Mode | Mode                                      | Signal Mode | Tested Channel                                            | Modulation | Data Rate Parameter | RU/MRU Index               |
|------------------------|--------------------|-------------------------------------------|-------------|-----------------------------------------------------------|------------|---------------------|----------------------------|
| RF Output Power        | A                  | 802.11be (EHT20)<br>52+26-tone MRU        | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 70, 72, 70, 72, 72, 70, 72 |
|                        |                    | 802.11be (EHT20)<br>106+26-tone MRU       | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 82, 83, 82, 83, 83, 82, 83 |
|                        |                    | 802.11be (EHT80)<br>484+242-tone MRU      | 1S1T / 2S2T | 42, 58, 106, 122, 138, 155                                | BPSK       | MCS0                | 92, 91, 92, 91, 91, 92     |
|                        |                    | 802.11be (EHT160)<br>996+484-tone MRU     | 1S1T / 2S2T | 50, 114                                                   | BPSK       | MCS0                | 95-1, 94-1                 |
|                        |                    | 802.11be (EHT160)<br>996+484+242-tone MRU | 1S1T / 2S2T | 50, 114                                                   | BPSK       | MCS0                | 99-1, 97-1                 |
| Power Spectral Density | A                  | 802.11a                                   | 1Tx / 2Tx   | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | 6Mb/s               | NA                         |
|                        |                    | 802.11be (EHT20)                          | 1S1T / 2S2T | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | MCS0                | NA                         |
|                        |                    | 802.11be (EHT40)                          | 1S1T / 2S2T | 38, 46, 54, 62, 102, 118, 134, 142, 151, 159              | BPSK       | MCS0                | NA                         |
|                        |                    | 802.11be (EHT80)                          | 1S1T / 2S2T | 42, 58, 106, 122, 138, 155                                | BPSK       | MCS0                | NA                         |
|                        |                    | 802.11be (EHT160)                         | 1S1T / 2S2T | 50, 114                                                   | BPSK       | MCS0                | NA                         |
|                        |                    | 802.11be (EHT20)<br>26-tone RU            | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 0, 8, 0, 8, 8, 0, 8        |
|                        |                    | 802.11be (EHT20)<br>52-tone RU            | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 37, 40, 37, 40, 40, 37, 40 |
|                        |                    | 802.11be (EHT20)<br>106-tone RU           | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 53, 54, 53, 54, 54, 53, 54 |
|                        |                    | 802.11be (EHT20)<br>52+26-tone MRU        | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 70, 72, 70, 72, 72, 70, 72 |
|                        |                    | 802.11be (EHT20)<br>106+26-tone MRU       | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 82, 83, 82, 83, 83, 82, 83 |
|                        |                    | 802.11be (EHT80)<br>484+242-tone MRU      | 1S1T / 2S2T | 42, 58, 106, 122, 138, 155                                | BPSK       | MCS0                | 92, 91, 92, 91, 91, 92     |
|                        |                    | 802.11be (EHT160)<br>996+484-tone MRU     | 1S1T / 2S2T | 50, 114                                                   | BPSK       | MCS0                | 95-1, 94-1                 |
|                        |                    | 802.11be (EHT160)<br>996+484+242-tone MRU | 1S1T / 2S2T | 50, 114                                                   | BPSK       | MCS0                | 99-1, 97-1                 |

| Test Item          | EUT Configure Mode | Mode                                      | Signal Mode | Tested Channel                                            | Modulation | Data Rate Parameter | RU/MRU Index               |
|--------------------|--------------------|-------------------------------------------|-------------|-----------------------------------------------------------|------------|---------------------|----------------------------|
| 6 dB Bandwidth     | A                  | 802.11a                                   | 1Tx / 2Tx   | 144, 149, 157, 165                                        | BPSK       | 6Mb/s               | NA                         |
|                    |                    | 802.11be (EHT20)                          | 1S1T / 2S2T | 144, 149, 157, 165                                        | BPSK       | MCS0                | NA                         |
|                    |                    | 802.11be (EHT40)                          | 1S1T / 2S2T | 142, 151, 159                                             | BPSK       | MCS0                | NA                         |
|                    |                    | 802.11be (EHT80)                          | 1S1T / 2S2T | 138, 155                                                  | BPSK       | MCS0                | NA                         |
|                    |                    | 802.11be (EHT20)<br>26-tone RU            | 1S1T / 2S2T | 144, 149, 165                                             | BPSK       | MCS0                | 8, 0, 8                    |
|                    |                    | 802.11be (EHT20)<br>52-tone RU            | 1S1T / 2S2T | 144, 149, 165                                             | BPSK       | MCS0                | 40, 37, 40                 |
|                    |                    | 802.11be (EHT20)<br>106-tone RU           | 1S1T / 2S2T | 144, 149, 165                                             | BPSK       | MCS0                | 54, 53, 54                 |
|                    |                    | 802.11be (EHT20)<br>52+26-tone MRU        | 1S1T / 2S2T | 144, 149, 165                                             | BPSK       | MCS0                | 72, 70, 72                 |
|                    |                    | 802.11be (EHT20)<br>106+26-tone MRU       | 1S1T / 2S2T | 144, 149, 165                                             | BPSK       | MCS0                | 83, 82, 83                 |
|                    |                    | 802.11be (EHT80)<br>484+242-tone MRU      | 1S1T / 2S2T | 138, 155                                                  | BPSK       | MCS0                | 91, 92                     |
| Occupied Bandwidth | A                  | 802.11a                                   | 1Tx / 2Tx   | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | 6Mb/s               | NA                         |
|                    |                    | 802.11be (EHT20)                          | 1S1T / 2S2T | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | MCS0                | NA                         |
|                    |                    | 802.11be (EHT40)                          | 1S1T / 2S2T | 38, 46, 54, 62, 102, 118, 134, 142, 151, 159              | BPSK       | MCS0                | NA                         |
|                    |                    | 802.11be (EHT80)                          | 1S1T / 2S2T | 42, 58, 106, 122, 138, 155                                | BPSK       | MCS0                | NA                         |
|                    |                    | 802.11be (EHT160)                         | 1S1T / 2S2T | 50, 114                                                   | BPSK       | MCS0                | NA                         |
|                    |                    | 802.11be (EHT20)<br>26-tone RU            | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 0, 8, 0, 8, 8, 0, 8        |
|                    |                    | 802.11be (EHT20)<br>52-tone RU            | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 37, 40, 37, 40, 40, 37, 40 |
|                    |                    | 802.11be (EHT20)<br>106-tone RU           | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 53, 54, 53, 54, 54, 53, 54 |
|                    |                    | 802.11be (EHT20)<br>52+26-tone MRU        | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 70, 72, 70, 72, 72, 70, 72 |
|                    |                    | 802.11be (EHT20)<br>106+26-tone MRU       | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                           | BPSK       | MCS0                | 82, 83, 82, 83, 83, 82, 83 |
|                    |                    | 802.11be (EHT80)<br>484+242-tone MRU      | 1S1T / 2S2T | 42, 58, 106, 122, 138, 155                                | BPSK       | MCS0                | 92, 91, 92, 91, 91, 92     |
|                    |                    | 802.11be (EHT160)<br>996+484-tone MRU     | 1S1T / 2S2T | 50, 114                                                   | BPSK       | MCS0                | 95-1, 94-1                 |
|                    |                    | 802.11be (EHT160)<br>996+484+242-tone MRU | 1S1T / 2S2T | 50, 114                                                   | BPSK       | MCS0                | 99-1, 97-1                 |

| Test Item                                            | EUT Configure Mode                                 | Mode                                   | Signal Mode | Tested Channel                                                               | Modulation | Data Rate Parameter | RU/MRU Index               |
|------------------------------------------------------|----------------------------------------------------|----------------------------------------|-------------|------------------------------------------------------------------------------|------------|---------------------|----------------------------|
| AC Power Conducted Emissions                         | C                                                  | 802.11a                                | 2Tx         | 149                                                                          | BPSK       | 6Mb/s               | NA                         |
| Unwanted Emissions below 1 GHz                       | A, B                                               | 802.11a                                | 1Tx         | 165                                                                          | BPSK       | 6Mb/s               | NA                         |
|                                                      |                                                    | 802.11a                                | 2Tx         | 149                                                                          | BPSK       | 6Mb/s               | NA                         |
| Unwanted Emissions above 1 GHz                       | A, B                                               | 802.11a                                | 1Tx / 2Tx   | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165                    | BPSK       | 6Mb/s               | NA                         |
|                                                      |                                                    | 802.11be (EHT20)                       | 1S1T / 2S2T | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165                    | BPSK       | MCS0                | NA                         |
|                                                      |                                                    | 802.11be (EHT40)                       | 1S1T / 2S2T | 38, 46, 54, 62, 102, 118, 134, 142, 151, 159                                 | BPSK       | MCS0                | NA                         |
|                                                      |                                                    | 802.11be (EHT80)                       | 1S1T / 2S2T | 42, 58, 106, 122, 138, 155                                                   | BPSK       | MCS0                | NA                         |
|                                                      |                                                    | 802.11be (EHT160)                      | 1S1T / 2S2T | 50, 114                                                                      | BPSK       | MCS0                | NA                         |
|                                                      |                                                    | 802.11be (EHT20) 26-tone RU            | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                                              | BPSK       | MCS0                | 0, 8, 0, 8, 8, 0, 8        |
|                                                      |                                                    | 802.11be (EHT20) 52-tone RU            | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                                              | BPSK       | MCS0                | 37, 40, 37, 40, 40, 37, 40 |
|                                                      |                                                    | 802.11be (EHT20) 106-tone RU           | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                                              | BPSK       | MCS0                | 53, 54, 53, 54, 54, 53, 54 |
|                                                      |                                                    | 802.11be (EHT20) 52+26-tone MRU        | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                                              | BPSK       | MCS0                | 70, 72, 70, 72, 72, 70, 72 |
|                                                      |                                                    | 802.11be (EHT20) 106+26-tone MRU       | 1S1T / 2S2T | 36, 64, 100, 140, 144, 149, 165                                              | BPSK       | MCS0                | 82, 83, 82, 83, 83, 82, 83 |
|                                                      |                                                    | 802.11be (EHT80) 484+242-tone MRU      | 1S1T / 2S2T | 42, 58, 106, 122, 138, 155                                                   | BPSK       | MCS0                | 92, 91, 92, 91, 91, 92     |
|                                                      |                                                    | 802.11be (EHT160) 996+484-tone MRU     | 1S1T / 2S2T | 50, 114                                                                      | BPSK       | MCS0                | 95-1, 94-1                 |
|                                                      |                                                    | 802.11be (EHT160) 996+484+242-tone MRU | 1S1T / 2S2T | 50, 114                                                                      | BPSK       | MCS0                | 99-1, 97-1                 |
|                                                      |                                                    | EUT Configure Mode:                    | A           | EUT only (remove 50 ohm terminator and Connect to the appropriate equipment) |            |                     |                            |
| B                                                    | EUT with 50 ohm terminator                         |                                        |             |                                                                              |            |                     |                            |
| C                                                    | EUT with antenna set 1 (Model: RFMTA340718EMLB302) |                                        |             |                                                                              |            |                     |                            |
| Note: Channel puncturing mechanism is not supported. |                                                    |                                        |             |                                                                              |            |                     |                            |

### 3.6 Duty Cycle of Test Signal

#### 1Tx

**802.11a:** Duty cycle = 2.017 ms / 2.078 ms x 100% = 97.1%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.13 \text{ dB}$

**802.11be (EHT20):** Duty cycle = 4.63 ms / 4.72 ms x 100% = 98.1%

**802.11be (EHT40):** Duty cycle = 4.645 ms / 4.73 ms x 100% = 98.2%

**802.11be (EHT80):** Duty cycle = 2.263 ms / 2.326 ms x 100% = 97.3%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$

**802.11be (EHT160):** Duty cycle = 2.072 ms / 2.148 ms x 100% = 96.5%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.16 \text{ dB}$

**802.11be (EHT20) 26-tone RU:**

Duty cycle = 1.601 ms / 1.656 ms x 100% = 96.7%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.15 \text{ dB}$

**802.11be (EHT20) 52-tone RU:**

Duty cycle = 1.521 ms / 1.577 ms x 100% = 96.4%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.16 \text{ dB}$

**802.11be (EHT20) 106-tone RU:**

Duty cycle = 1.398 ms / 1.454 ms x 100% = 96.1%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.17 \text{ dB}$

**802.11be (EHT20) 52+26-tone MRU:**

Duty cycle = 1.492 ms / 1.549 ms x 100% = 96.3%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.16 \text{ dB}$

**802.11be (EHT20) 106+26-tone MRU:**

Duty cycle = 1.658 ms / 1.723 ms x 100% = 96.2%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.17 \text{ dB}$

**802.11be (EHT80) 484+242-tone MRU:**

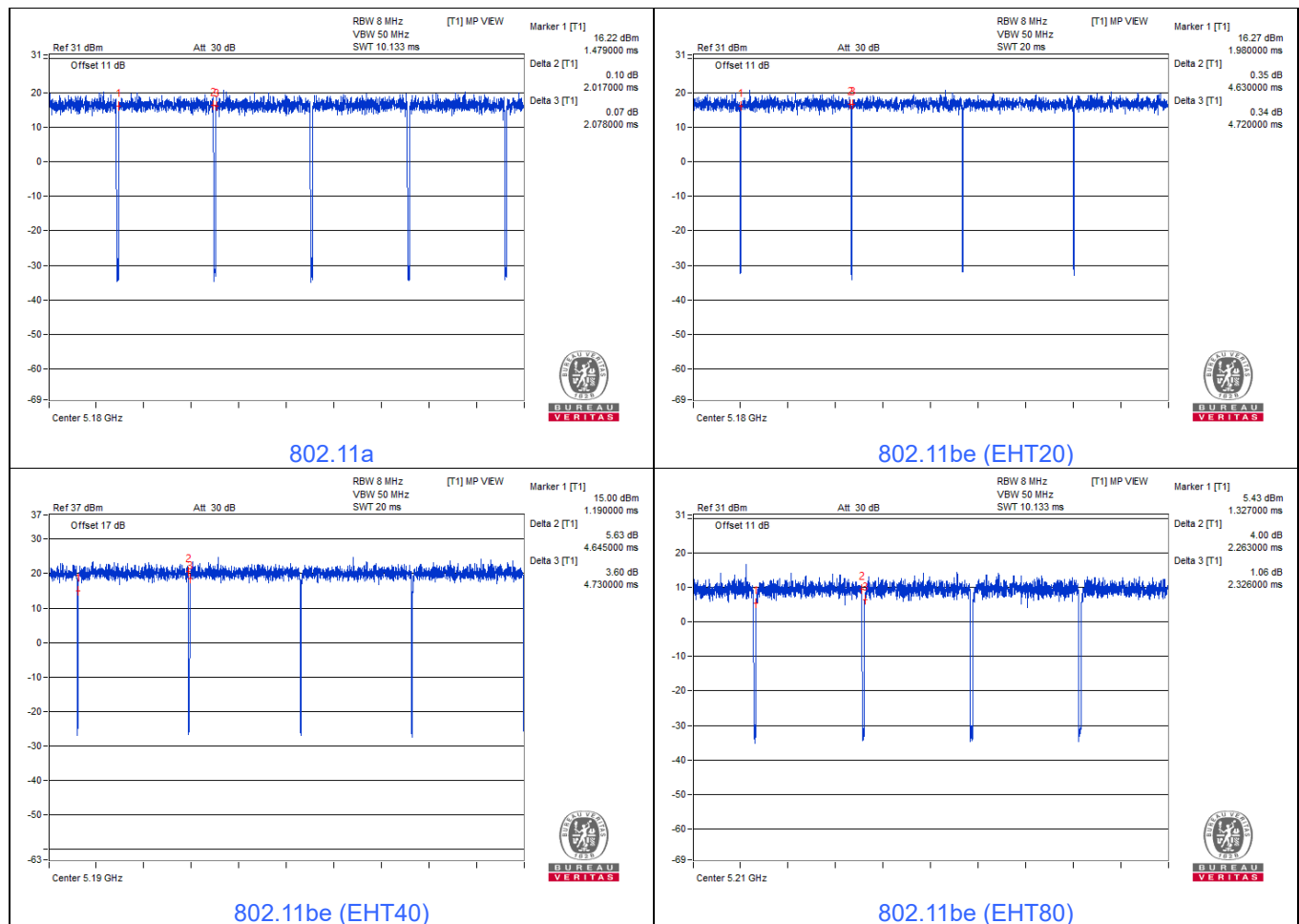
Duty cycle = 1.198 ms / 1.252 ms x 100% = 95.7%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.19 \text{ dB}$

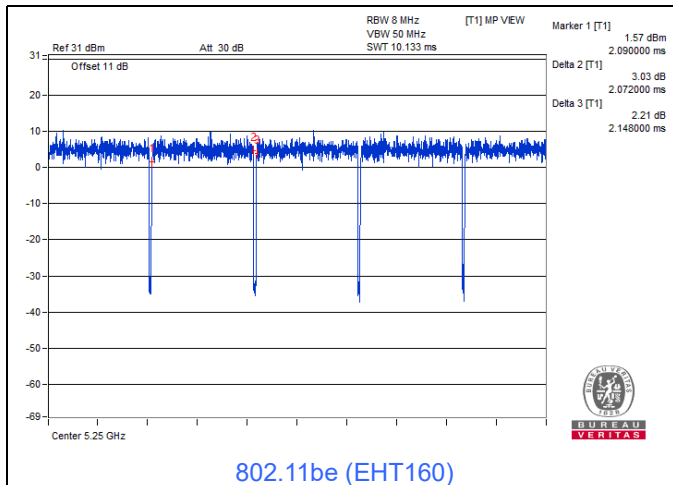
**802.11be (EHT160) 996+484-tone MRU:**

Duty cycle = 1.162 ms / 1.218 ms x 100% = 95.4%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.20 \text{ dB}$

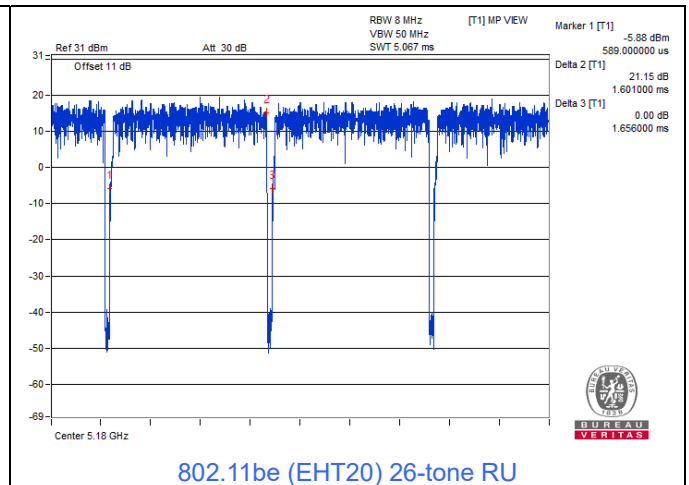
**802.11be (EHT160) 996+484+242-tone MRU:**

Duty cycle = 1.166 ms / 1.221 ms x 100% = 95.5%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.20 \text{ dB}$

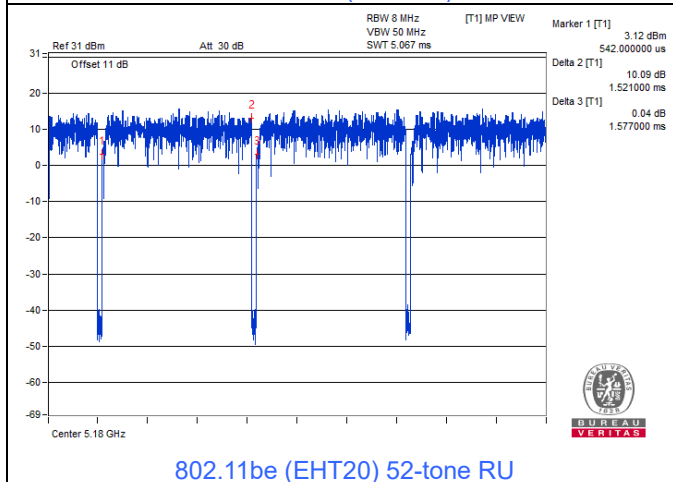




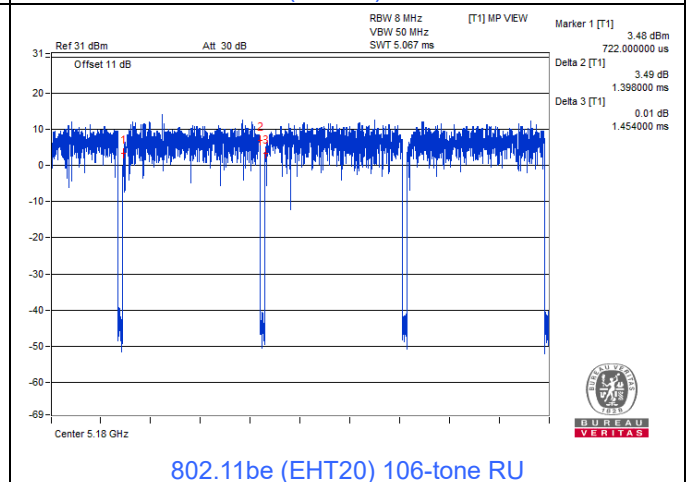
802.11be (EHT160)



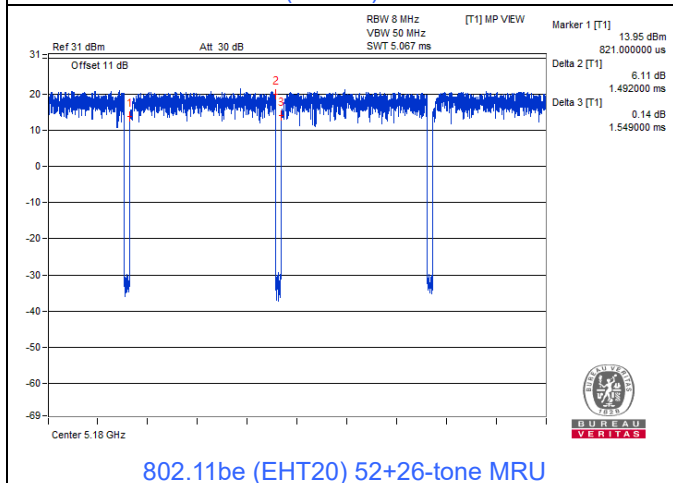
802.11be (EHT20) 26-tone RU



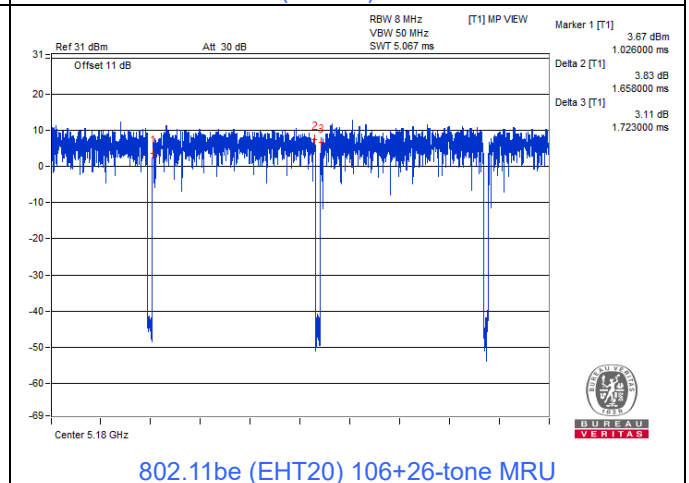
802.11be (EHT20) 52-tone RU



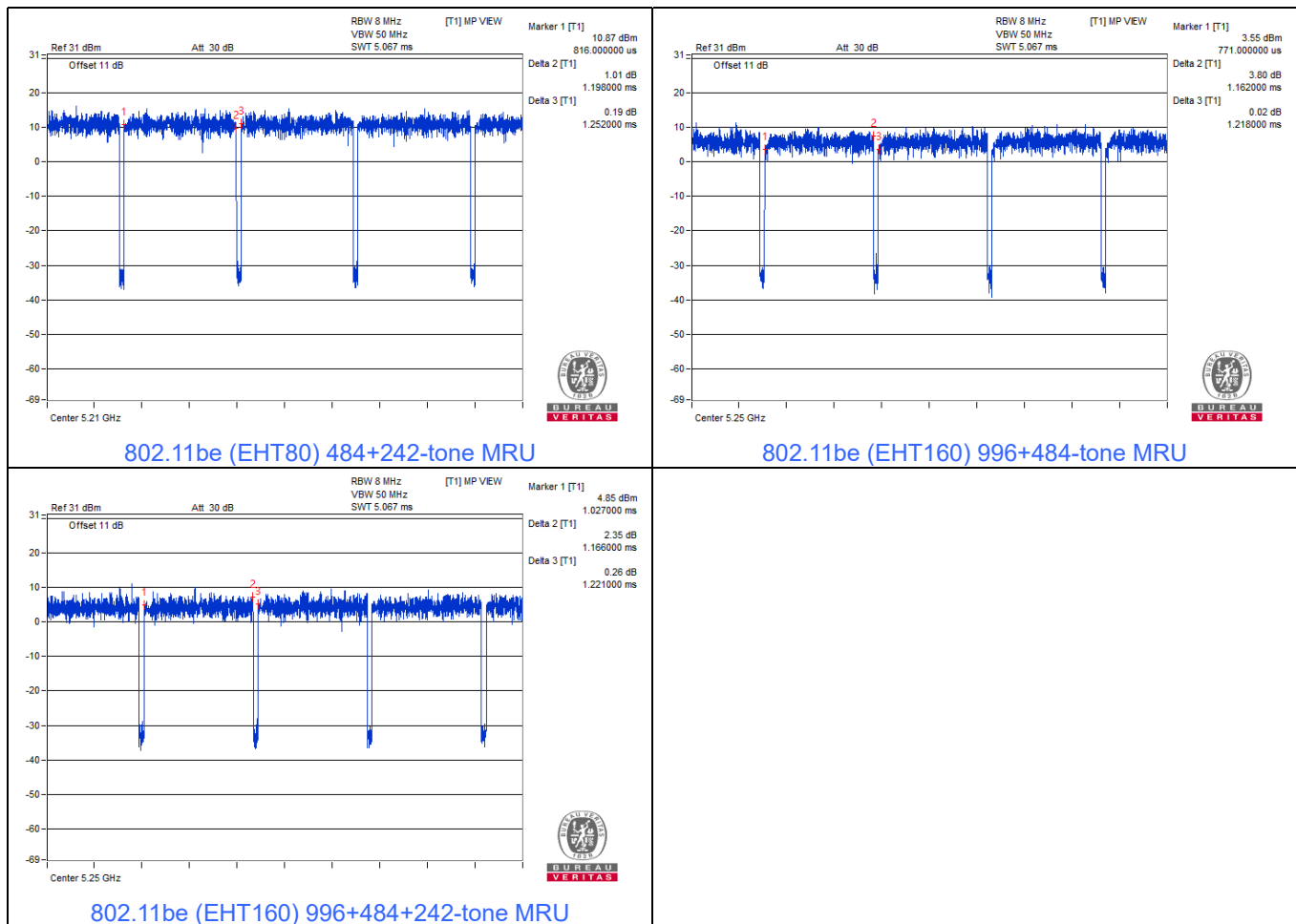
802.11be (EHT20) 106-tone RU



802.11be (EHT20) 52+26-tone MRU



802.11be (EHT20) 106+26-tone MRU



## 2Tx

**802.11a:** Duty cycle = 2.017 ms / 2.078 ms x 100% = 97.1%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.13 \text{ dB}$

**802.11be (EHT20):** Duty cycle = 2.376 ms / 2.432 ms x 100% = 97.7%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.10 \text{ dB}$

**802.11be (EHT40):** Duty cycle = 2.381 ms / 2.455 ms x 100% = 97.0%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.13 \text{ dB}$

**802.11be (EHT80):** Duty cycle = 1.185 ms / 1.241 ms x 100% = 95.5%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.20 \text{ dB}$

**802.11be (EHT160):** Duty cycle = 1.094 ms / 1.154 ms x 100% = 94.8%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.23 \text{ dB}$

**802.11be (EHT20) 26-tone RU:**

Duty cycle = 0.852 ms / 0.908 ms x 100% = 93.8%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.28 \text{ dB}$

**802.11be (EHT20) 52-tone RU:**

Duty cycle = 0.815 ms / 0.869 ms x 100% = 93.8%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.28 \text{ dB}$

**802.11be (EHT20) 106-tone RU:**

Duty cycle = 0.751 ms / 0.831 ms x 100% = 90.4%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.44 \text{ dB}$

**802.11be (EHT20) 52+26-tone MRU:**

Duty cycle = 0.8 ms / 0.857 ms x 100% = 93.3%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.30 \text{ dB}$

**802.11be (EHT20) 106+26-tone MRU:**

Duty cycle = 0.88 ms / 0.937 ms x 100% = 93.9%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.27 \text{ dB}$

**802.11be (EHT80) 484+242-tone MRU:**

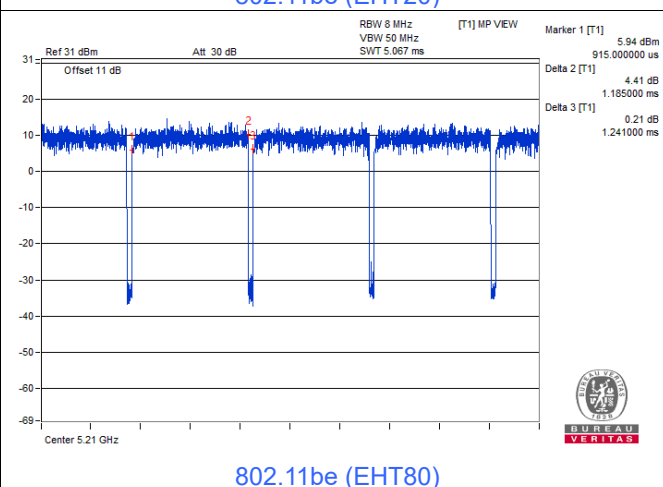
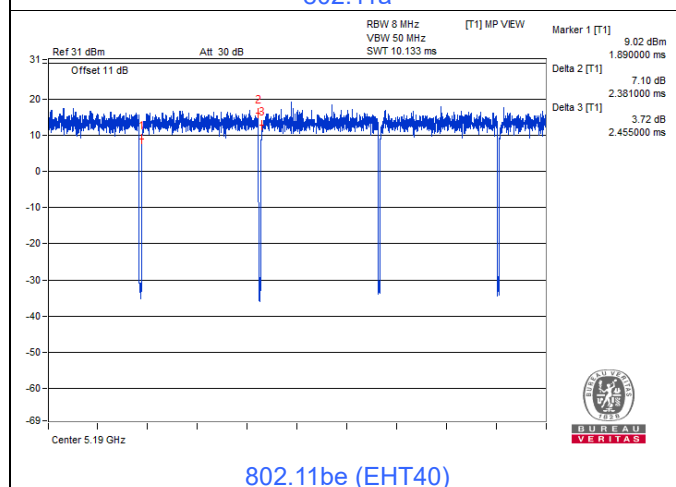
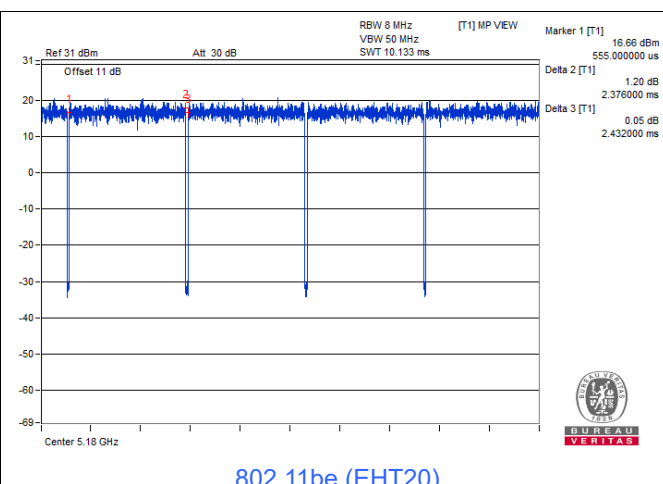
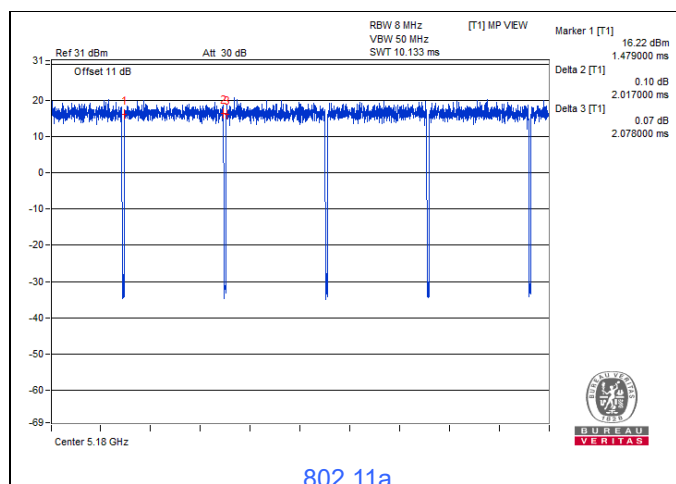
Duty cycle = 0.651 ms / 0.704 ms x 100% = 92.5%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.34 \text{ dB}$

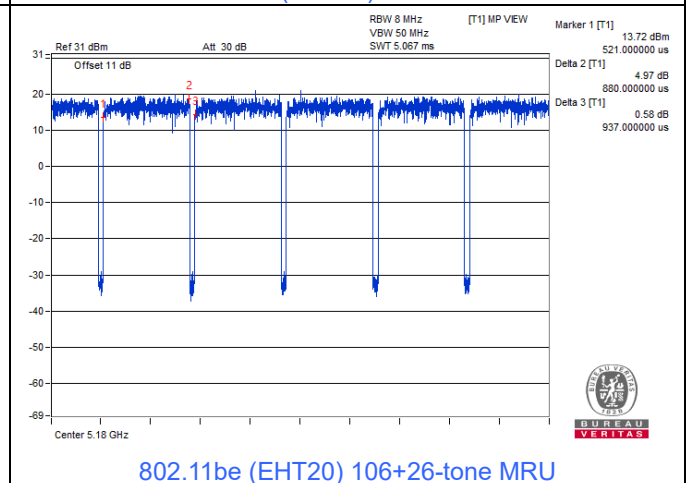
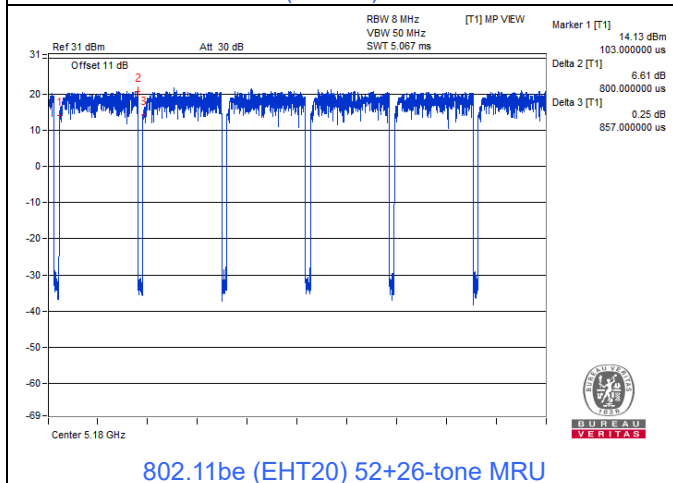
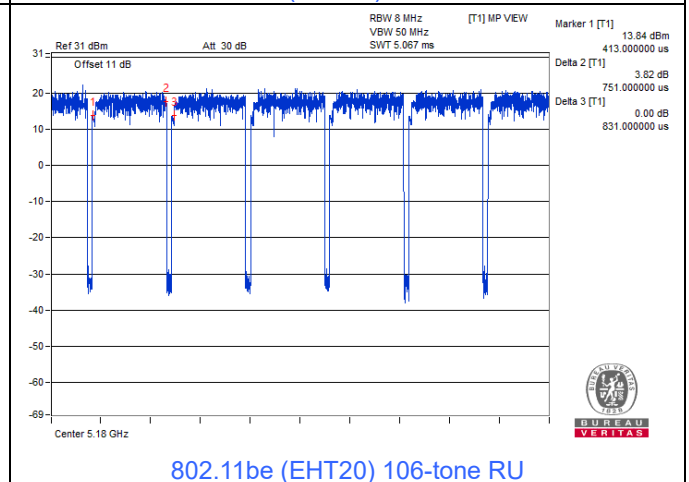
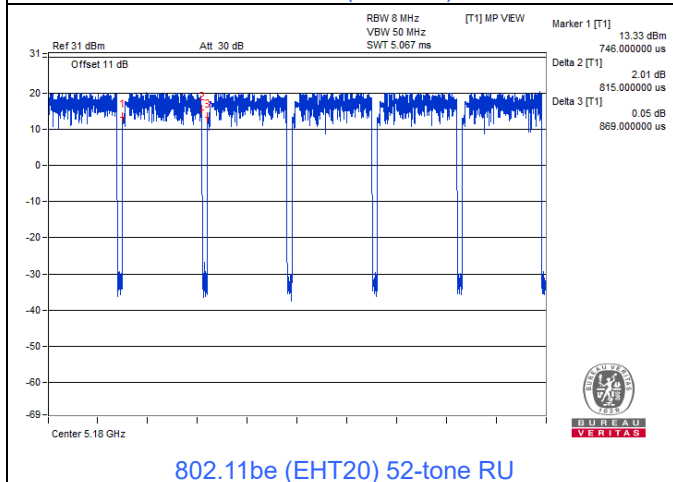
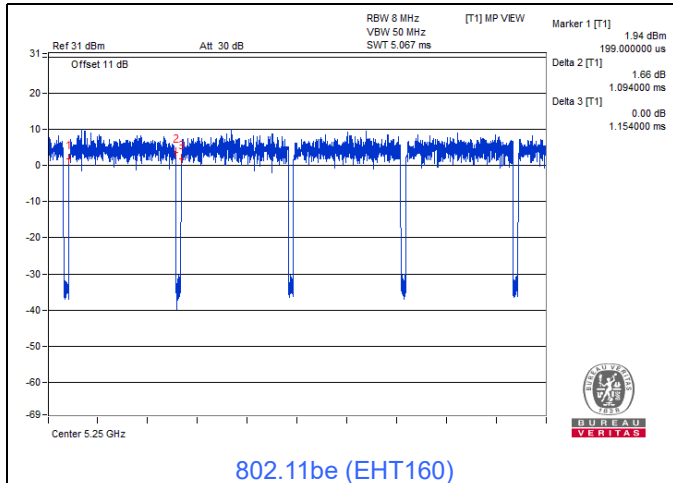
**802.11be (EHT160) 996+484-tone MRU:**

Duty cycle = 0.634 ms / 0.69 ms x 100% = 91.9%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.37 \text{ dB}$

**802.11be (EHT160) 996+484+242-tone MRU:**

Duty cycle = 0.632 ms / 0.695 ms x 100% = 90.9%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.41 \text{ dB}$







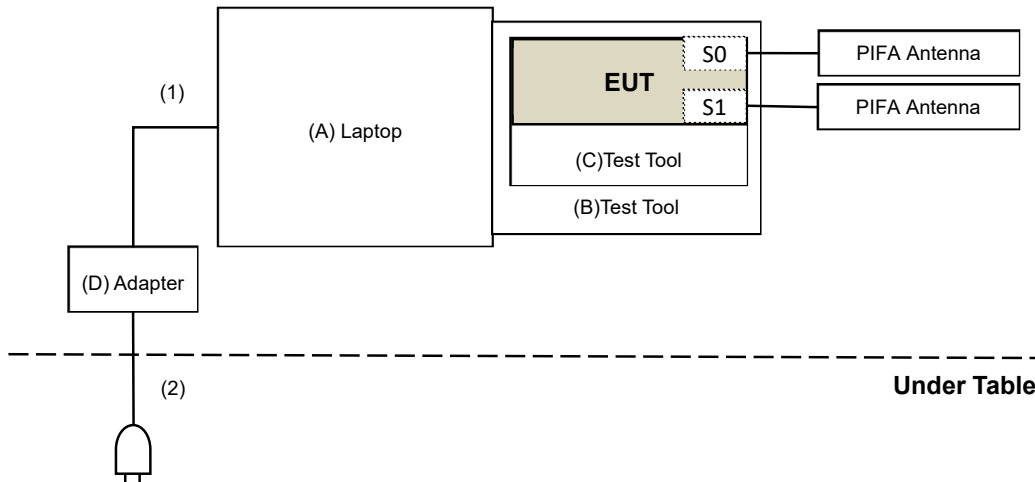
### 3.7 Test Program Used and Operation Descriptions

Controlling software QA UI(MT7935) V0.0.2.118 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.8 Connection Diagram of EUT and Peripheral Devices

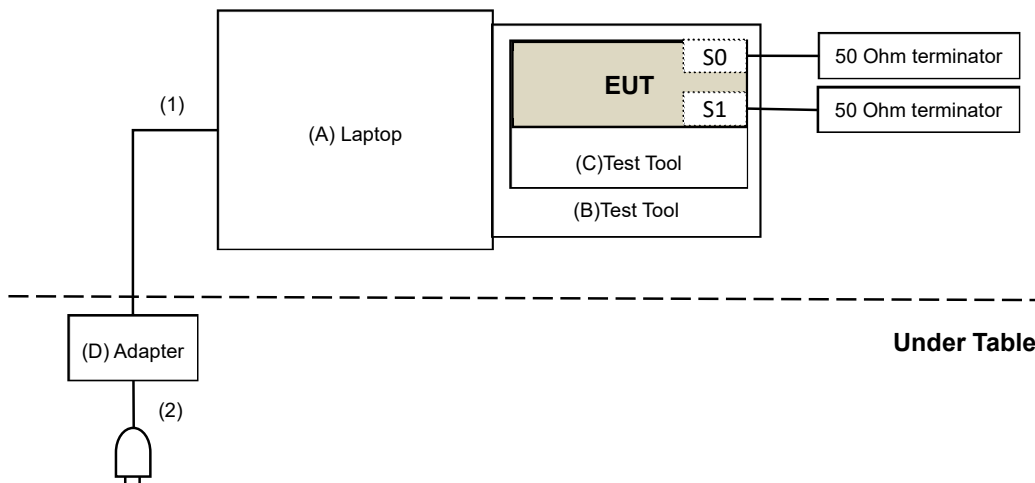
#### For AC Power Conducted Emission Test

##### Mode C



#### For Unwanted Emissions test

##### Mode B



### 3.9 Configuration of Peripheral Devices and Cable Connections

| ID | Product   | Brand    | Model No. | Serial No. | FCC ID | Remarks               |
|----|-----------|----------|-----------|------------|--------|-----------------------|
| A  | Laptop    | DELL     | E6230     | H148YW1    | N/A    | Provided by Lab       |
| B  | Test Tool | Mediatek | MTK1849   | N/A        | N/A    | Supplied by applicant |
| C  | Test Tool | Mediatek | MTK5917   | N/A        | N/A    | Supplied by applicant |
| D  | Adapter   | DELL     | LA65NM130 | N/A        | N/A    | Provided by Lab       |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks         |
|----|--------------------|------|------------|--------------------|--------------|-----------------|
| 1  | DC Cable           | 1    | 1.8        | No                 | 0            | Provided by Lab |
| 2  | AC Cable           | 1    | 1          | No                 | 0            | Provided by Lab |

## 4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.1 26 dB Bandwidth

| Description<br>Manufacturer     | Model No.                        | Serial No.        | Calibrated<br>Date     | Calibrated<br>Until    |
|---------------------------------|----------------------------------|-------------------|------------------------|------------------------|
| Fixed Attenuator<br>Woken       | 00800A1K01A-10                   | 00800A1K01A-10-01 | 2025/5/23<br>2026/5/21 | 2026/5/22<br>2027/5/20 |
| PXA Signal Analyzer<br>Keysight | N9030B                           | MY57142938        | 2026/4/17              | 2027/4/16              |
| Software                        | ADT_RF Test Software<br>v8.5.6.4 | N/A               | N/A                    | N/A                    |

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/5/20 ~ 2026/7/14

### 4.2 RF Output Power

| Description<br>Manufacturer     | Model No.                        | Serial No.        | Calibrated<br>Date     | Calibrated<br>Until    |
|---------------------------------|----------------------------------|-------------------|------------------------|------------------------|
| Fixed Attenuator<br>Woken       | 00800A1K01A-10                   | 00800A1K01A-10-01 | 2025/5/23<br>2026/5/21 | 2026/5/22<br>2027/5/20 |
|                                 | 00800A1K01A-20                   | 00800A1K01A-20-02 | 2025/5/23<br>2026/5/21 | 2026/5/22<br>2027/5/20 |
| Pulse Power Sensor<br>Anritsu   | MA2411B                          | 1726433           | 2026/5/8               | 2027/5/7               |
| PXA Signal Analyzer<br>Keysight | N9030B                           | MY57142938        | 2026/4/17              | 2027/4/16              |
| RF Power Meter<br>Anritsu       | ML2496A                          | 1529003           | 2025/8/13<br>2026/6/15 | 2026/8/12<br>2027/6/14 |
| Software                        | ADT_RF Test Software<br>v8.5.6.4 | N/A               | N/A                    | N/A                    |

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/5/20 ~ 2026/7/14

### 4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

### 4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

### 4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

#### 4.6 AC Power Conducted Emissions

| Description<br>Manufacturer               | Model No.           | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|-------------------------------------------|---------------------|------------|--------------------|---------------------|
| 50 ohm terminal resistance<br>Telegartner | 50 ohm              | 3          | 2025/10/29         | 2026/10/28          |
| EMI Test Receiver<br>R&S                  | ESCS 30             | 100375     | 2026/5/20          | 2027/5/19           |
| Fixed Attenuator<br>STI                   | STI02-2200-10       | 005        | 2026/2/9           | 2027/2/8            |
| LISN<br>R&S                               | ESH3-Z5             | 835239/001 | 2026/3/30          | 2027/3/29           |
|                                           |                     | 848773/004 | 2025/10/3          | 2026/10/2           |
| RF Coaxial Cable<br>JYEBAO                | 5D-FB               | COCCAB-001 | 2026/2/9           | 2027/2/8            |
| Software<br>BVADT                         | BVADT_Cond_V7.4.1.0 | N/A        | N/A                | N/A                 |

Notes:

1. The test was performed in HC - Conduction 1(Hsinchu).
2. Tested Date: 2026/5/28

#### 4.7 Unwanted Emissions below 1 GHz

##### Mode A

| Description<br>Manufacturer     | Model No.                        | Serial No.        | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------|----------------------------------|-------------------|--------------------|---------------------|
| Fixed Attenuator<br>Woken       | 00800A1K01A-10                   | 00800A1K01A-10-01 | 2026/5/21          | 2027/5/20           |
| PXA Signal Analyzer<br>Keysight | N9030B                           | MY57142938        | 2026/4/17          | 2027/4/16           |
| Software                        | ADT_RF Test Software<br>v8.5.6.4 | N/A               | N/A                | N/A                 |

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/7/14

##### Mode B

| Description<br>Manufacturer                      | Model No.            | Serial No.  | Calibrated<br>Date | Calibrated<br>Until |
|--------------------------------------------------|----------------------|-------------|--------------------|---------------------|
| Bi_Log Antenna<br>Schwarzbeck                    | VULB 9168            | 9168-0842   | 2025/9/16          | 2026/9/15           |
| Boresight Antenna Tower & Turn Table<br>Max-Full | MF-7802BS            | MF780208530 | N/A                | N/A                 |
| Fixed Attenuator<br>Mini-Circuits                | UNAT-5+              | PAD-ATT5-02 | 2026/3/15          | 2027/3/14           |
| Loop Antenna<br>TESEQ                            | HLA 6121             | 63620       | 2025/10/20         | 2026/10/19          |
| MXE EMI Receiver<br>Keysight                     | N9038A               | MY59050100  | 2025/6/25          | 2026/6/24           |
| Preamplifier<br>EMCI                             | EMC330N              | 980538      | 2026/3/15          | 2027/3/14           |
| PXA Signal Analyzer<br>Keysight                  | N9030B               | MY57141948  | 2025/5/20          | 2026/5/19           |
| RF Coaxial Cable<br>PEWC                         | 8D                   | 966-5-1     | 2026/3/15          | 2027/3/14           |
|                                                  |                      | 966-5-2     | 2026/3/15          | 2027/3/14           |
|                                                  |                      | 966-5-3     | 2026/3/15          | 2027/3/14           |
| Software                                         | ADT_Radiated_V8.7.08 | N/A         | N/A                | N/A                 |

Notes:

1. The test was performed in HC - 966 Chamber No. 5(Hsinchu).
2. Tested Date: 2026/4/23

#### 4.8 Unwanted Emissions above 1 GHz

##### Mode A

| Description<br>Manufacturer     | Model No.                        | Serial No.        | Calibrated<br>Date     | Calibrated<br>Until    |
|---------------------------------|----------------------------------|-------------------|------------------------|------------------------|
| Fixed Attenuator<br>Woken       | 00800A1K01A-10                   | 00800A1K01A-10-01 | 2025/5/23<br>2026/5/21 | 2026/5/22<br>2027/5/20 |
| PXA Signal Analyzer<br>Keysight | N9030B                           | MY57142938        | 2026/4/17              | 2027/4/16              |
| Software                        | ADT_RF Test Software<br>v8.5.6.4 | N/A               | N/A                    | N/A                    |

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/5/16 ~ 2026/7/18

##### Mode B

| Description<br>Manufacturer                         | Model No.            | Serial No.  | Calibrated<br>Date     | Calibrated<br>Until    |
|-----------------------------------------------------|----------------------|-------------|------------------------|------------------------|
| Boresight Antenna Tower & Turn<br>Table<br>Max-Full | MF-7802BS            | MF780208530 | N/A                    | N/A                    |
| Horn Antenna<br>Schwarzbeck                         | BBHA 9120D           | 9120D-1819  | 2025/11/9              | 2026/11/8              |
|                                                     | BBHA 9170            | 9170-739    | 2025/11/9              | 2026/11/8              |
| MXE EMI Receiver<br>Keysight                        | N9038A               | MY54450088  | 2026/4/1               | 2027/3/31              |
| Preamplifier<br>EMCI                                | EMC12630SE           | 980509      | 2026/1/17              | 2027/1/16              |
|                                                     | EMC184045SE          | 980387      | 2025/8/7               | 2026/8/6               |
| PXA Signal Analyzer<br>Keysight                     | N9030B               | MY57141948  | 2025/5/20<br>2026/5/25 | 2026/5/19<br>2027/5/24 |
| RF Coaxial Cable<br>EMCI                            | EMC102-KM-KM-1200    | 160924      | 2026/1/15              | 2027/1/14              |
|                                                     | EMC102-KM-KM-4000    | 200214      | 2026/1/15              | 2027/1/14              |
|                                                     | EMC104-SM-SM-1500    | 180503      | 2026/3/7               | 2027/3/6               |
|                                                     | EMC104-SM-SM-2000    | 180501      | 2026/3/7               | 2027/3/6               |
|                                                     | EMC104-SM-SM-6000    | 180506      | 2026/3/7               | 2027/3/6               |
| Software                                            | ADT_Radiated_V8.7.08 | N/A         | N/A                    | N/A                    |

Notes:

1. The test was performed in HC - 966 Chamber No. 5(Hsinchu).
2. Tested Date: 2026/5/12 ~ 2026/6/30

## 5 Limits of Test Items

### 5.1 26 dB Bandwidth

The results are for reference only.

### 5.2 RF Output Power

| Operation Band | EUT Category                       | Limit                                                                                                                       |
|----------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| U-NII-1        | Outdoor Access Point               | 1 Watt (30 dBm)<br>(Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
|                | Fixed point-to-point Access Points | 1 Watt (30 dBm)                                                                                                             |
|                | Indoor Access Point                | 1 Watt (30 dBm)                                                                                                             |
|                | Client devices                     | 250mW (24 dBm)                                                                                                              |

| Operation Band | Limit                               |
|----------------|-------------------------------------|
| U-NII-2A       | 250 mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-2C       | 250 mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-3        | 1 Watt (30 dBm)                     |

\*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

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

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

Array Gain = 5 log( $N_{ANT}/N_{SS}$ ) dB or 3 dB, whichever is less, for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

For power measurements on all other devices: Array Gain = 10 log( $N_{ANT}/N_{SS}$ ) dB.

### 5.3 Power Spectral Density

| Operation Band | EUT Category                       | Limit      |
|----------------|------------------------------------|------------|
| U-NII-1        | Outdoor Access Point               | 17 dBm/MHz |
|                | Fixed point-to-point Access Points |            |
|                | Indoor Access Point                |            |
|                | Client devices                     | 11 dBm/MHz |

| Operation Band | Limit          |
|----------------|----------------|
| U-NII-2A       | 11 dBm/MHz     |
| U-NII-2C       | 11 dBm/MHz     |
| U-NII-3        | 30 dBm/500 kHz |

### 5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 5.5 Occupied Bandwidth

The results are for reference only.

## 5.6 AC Power Conducted Emissions

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Notes:

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

## 5.7 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

## 5.8 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Applicable To                                              | Limit                 |                 |
|------------------------------------------------------------|-----------------------|-----------------|
| 789033 D02 General UNII Test Procedure New Rules<br>v02r01 | Field Strength at 3 m |                 |
|                                                            | PK: 74 (dBuV/m)       | AV: 54 (dBuV/m) |

For transmitters operating in the 5.15-5.25 GHz band:

| Applicable To                                                                                                                                                                                                      | EIRP Limit        | Equivalent Field Strength at 3 m |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------|
| 15.407(b)(1)                                                                                                                                                                                                       | PK: -27 (dBm/MHz) | PK: 68.2 (dBuV/m) *              |
| * Conducted Unwanted Emission Convert Formula:<br>Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8, d = measurement distance in 3 meters.<br>Emission Level (dBuV/m) = -27 – 20log(3) + 104.8 = 68.26 |                   |                                  |

For transmitters operating in the 5.25-5.35 GHz band:

| Applicable To                                                                                                                                                                                                      | EIRP Limit        | Equivalent Field Strength at 3 m |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------|
| 15.407(b)(2)                                                                                                                                                                                                       | PK: -27 (dBm/MHz) | PK: 68.2 (dBuV/m) *              |
| * Conducted Unwanted Emission Convert Formula:<br>Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8, d = measurement distance in 3 meters.<br>Emission Level (dBuV/m) = -27 – 20log(3) + 104.8 = 68.26 |                   |                                  |

For transmitters operating in the 5.47-5.725 GHz band:

| Applicable To                                                                                                                                                                                                      | EIRP Limit        | Equivalent Field Strength at 3 m |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------|
| 15.407(b)(3)                                                                                                                                                                                                       | PK: -27 (dBm/MHz) | PK: 68.2 (dBuV/m) *              |
| * Conducted Unwanted Emission Convert Formula:<br>Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8, d = measurement distance in 3 meters.<br>Emission Level (dBuV/m) = -27 – 20log(3) + 104.8 = 68.26 |                   |                                  |

For transmitters operating in the 5.725-5.850 GHz band:

| Applicable To                                                                                                                                                                                                                                                                                                                                                                   | EIRP Limit                                                                                                                              | Equivalent Field Strength at 3 m                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 15.407(b)(4)(i)                                                                                                                                                                                                                                                                                                                                                                 | PK: -27 (dBm/MHz) <sup>*1</sup><br>PK: 10 (dBm/MHz) <sup>*2</sup><br>PK: 15.6 (dBm/MHz) <sup>*3</sup><br>PK: 27 (dBm/MHz) <sup>*4</sup> | PK: 68.2 (dBuV/m) <sup>*1</sup><br>PK: 105.2 (dBuV/m) <sup>*2</sup><br>PK: 110.8 (dBuV/m) <sup>*3</sup><br>PK: 122.2 (dBuV/m) <sup>*4</sup> |
| <sup>*1</sup> beyond 75 MHz or more above of the band edge.<br><sup>*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.<br><sup>*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.<br><sup>*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |                                                                                                                                         |                                                                                                                                             |

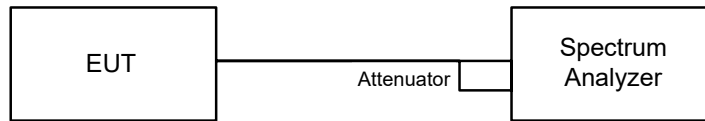
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 6 Test Arrangements

### 6.1 26 dB Bandwidth

#### 6.1.1 Test Setup



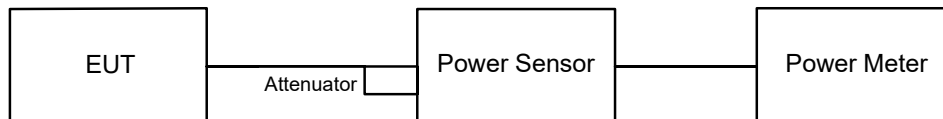
Note: The correction factor has already been compensated by the instrument.

#### 6.1.2 Test Procedure

- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max-hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

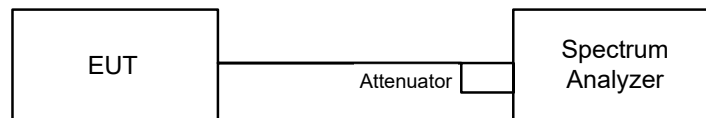
### 6.2 RF Output Power

#### 6.2.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

**For channel straddling:**



Note: The correction factor has already been compensated by the instrument.

## 6.2.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

### For channel straddling:

#### Method SA-1

- a. Set span to encompass the entire 99% OBW of the signal.
- b. Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS.
- c. Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging (rms) mode.
- f. Compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.
- g. Record the max value.

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the 99% OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.

### For channel straddling:

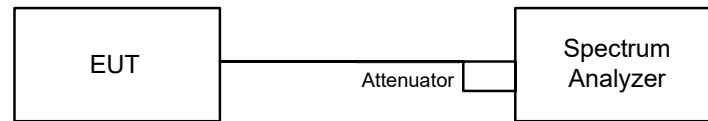
#### Method SA-2

- a. Measure the duty cycle of the transmitter output signal.
- b. Set span to encompass the entire 99% OBW of the signal.
- c. Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- d. Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- e. Sweep time = auto, trigger set to "free run".
- f. Detector = Power averaging (rms), if available. Otherwise, use sample detector mode.
- g. Do not use sweep triggering. Allow the sweep to "free run."
- h. Trace average at least 100 traces in power averaging mode.
- i. Compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function with band limits set equal to the EBW or OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.
- j. Record the max value and add  $10 \log (1/\text{duty cycle})$ .

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the 99% OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.

## 6.3 Power Spectral Density

### 6.3.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

### 6.3.2 Test Procedure

#### For specified measurement bandwidth 1 MHz:

##### Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS.
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

#### For specified measurement bandwidth 1 MHz:

##### Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS.
- Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add  $10 \log (1/\text{duty cycle})$ .

#### For specified measurement bandwidth 500 kHz:

##### Method SA-1

- Set span to encompass the entire 99% OBW of the signal
- Set RBW = 300 kHz, Set VBW  $\geq$  1 MHz, Detector = RMS.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where  $\text{BWCF} = 10 \log(500 \text{ kHz}/300 \text{ kHz})$ .
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value.

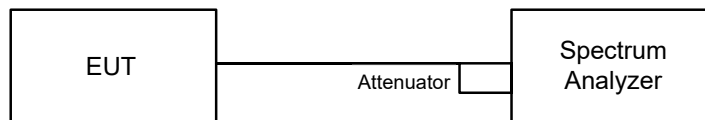
## For specified measurement bandwidth 500 kHz:

### Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 300 kHz, Set VBW  $\geq$  1 MHz, Detector = RMS.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where  $BWCF = 10\log(500 \text{ kHz}/300 \text{ kHz})$ .
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add  $10 \log (1/\text{duty cycle})$ .

## 6 dB Bandwidth

### 6.3.3 Test Setup



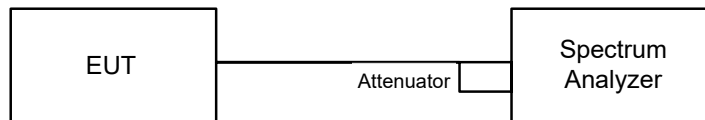
Note: The correction factor has already been compensated by the instrument.

### 6.3.4 Test Procedure

- Set RBW = 100 kHz.
- Set the VBW  $\geq [3 \times \text{RBW}]$ .
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 6.4 Occupied Bandwidth

### 6.4.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

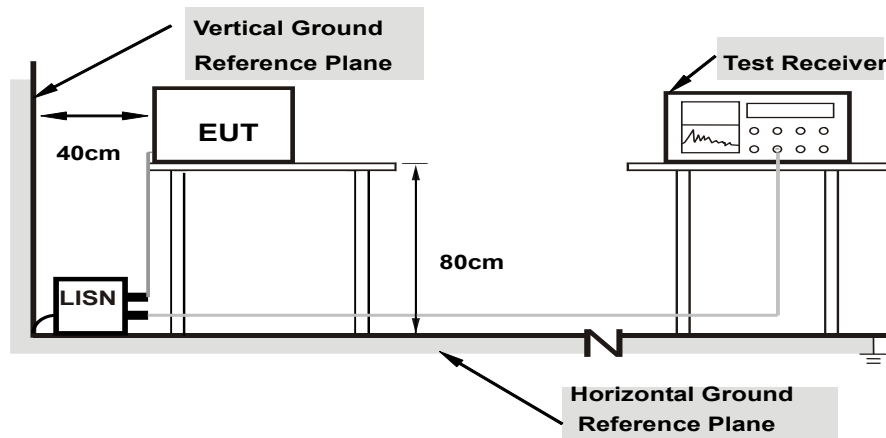
### 6.4.2 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a. The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b. The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c. Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level.
- d. Step a) through step c) might require iteration to adjust within the specified range.
- e. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

## 6.5 AC Power Conducted Emissions

### 6.5.1 Test Setup



**Note: 1.Support units were connected to second LISN.**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.5.2 Test Procedure

- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

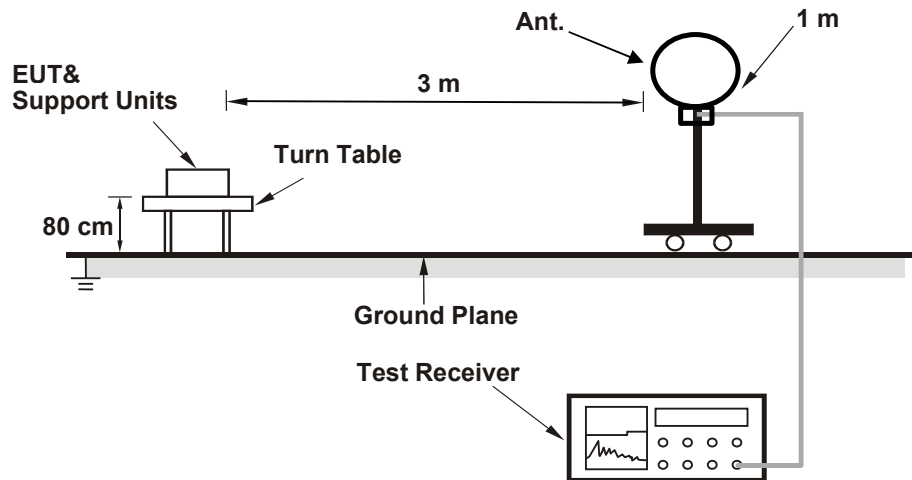
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

## 6.6 Unwanted Emissions below 1 GHz

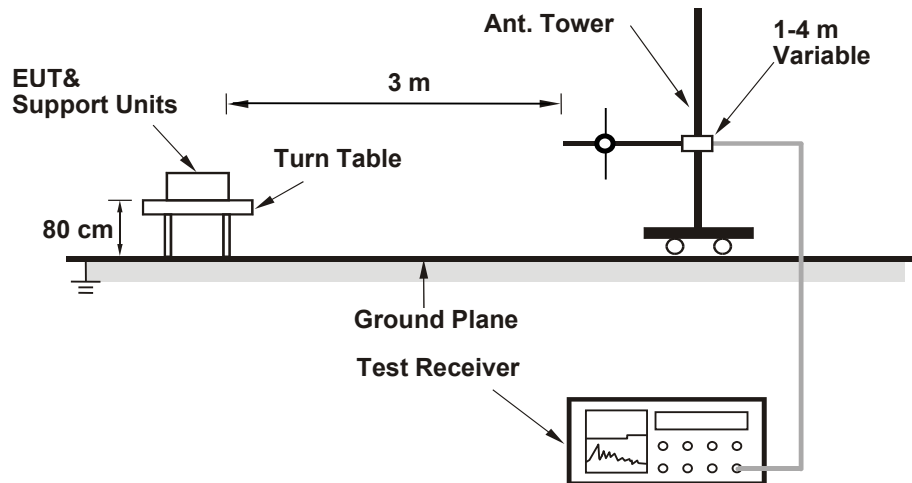
### 6.6.1 Test Setup

**For Radiated Configuration:**

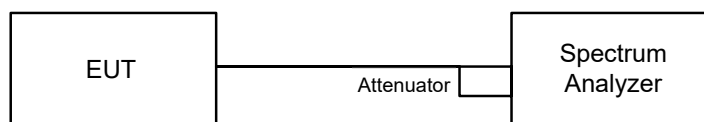
**For Radiated emission below 30 MHz**



**For Radiated emission above 30 MHz**



**For Conducted Configuration:**



Note: The correction factor has already been compensated by the instrument.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 6.6.2 Test Procedure

### Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test

#### **For Radiated emission below 30 MHz**

- e-1.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e-1.4. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-1.5. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

#### **For Radiated emission above 30 MHz**

- e-2.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-2.3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e-2.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-2.5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequencies less than or equal to 1 GHz (however, peak detector measurements may be used to determine compliance with QP requirements).
2. All modes of operation were investigated and the worst-case emissions are reported.

### Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

### Conducted Unwanted Emission Convert Formula

- a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8  
d = measurement distance in 3 meters.
- b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB)
- c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.  
For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.  
For the band edge the gain for the specific band may have been used.

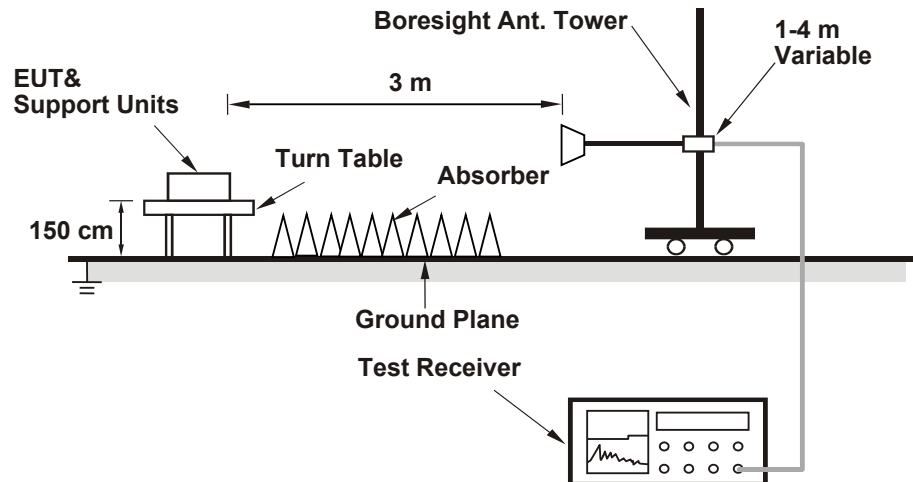
Notes:

1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:  
For frequencies between 30 MHz and 1000 MHz, add 4.7 dB.
2. The conducted emission test was considered some factor to compute test result.

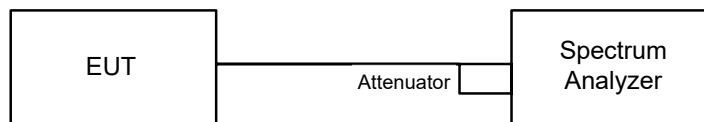
## 6.7 Unwanted Emissions above 1 GHz

### 6.7.1 Test Setup

#### For Radiated Configuration:



#### For Conducted Configuration:



Note: The correction factor has already been compensated by the instrument.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.7.2 Test Procedure

#### Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test
  - e-1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
  - e-2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

- e-3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e-4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-5. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

**Notes:**

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

| Radiated versus Conducted Measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><u>For Radiated measurement:</u></p> <p>The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).</p> <p><u>For Conducted measurement:</u></p> <p>The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).</p> <p><u>For Verified radiated measurement:</u></p> <p>The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).</p> |  |
| Conducted Unwanted Emission Convert Formula                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| <p>a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8<br/>d = measurement distance in 3 meters.</p> <p>b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB).</p> <p>c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.<br/>For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.<br/>For the band edge the gain for the specific band may have been used.</p> <p>Note: The conducted emission test was considered some factor to compute test result.</p>                              |  |

## 7 Test Results of Test Item

### 7.1 26 dB Bandwidth

|              |         |                           |              |            |           |
|--------------|---------|---------------------------|--------------|------------|-----------|
| Input Power: | 3.3 Vdc | Environmental Conditions: | 25°C, 60% RH | Tested By: | Henry Hsu |
|--------------|---------|---------------------------|--------------|------------|-----------|

1Tx

802.11a

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 52             | 5260            | 23.91                 |
| 60             | 5300            | 18.88                 |
| 64             | 5320            | 24.31                 |
| 100            | 5500            | 24.79                 |
| 116            | 5580            | 28.94                 |
| 140            | 5700            | 25.96                 |
| 144 (U-NII-2C) | 5720            | 21.69                 |
| 144 (U-NII-3)  | 5720            | 11.92                 |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 52                            | 5260       | 23.91       | 24.78                                  | > | 24 |
| 60                            | 5300       | 18.88       | 23.76                                  | < | 24 |
| 64                            | 5320       | 24.31       | 24.85                                  | > | 24 |
| 100                           | 5500       | 24.79       | 24.94                                  | > | 24 |
| 116                           | 5580       | 28.94       | 25.61                                  | > | 24 |
| 140                           | 5700       | 25.96       | 25.14                                  | > | 24 |
| 144 (U-NII-2C)                | 5720       | 21.69       | 24.36                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 52             | 5260            | 30.33                 |
| 60             | 5300            | 26.67                 |
| 64             | 5320            | 26.05                 |
| 100            | 5500            | 19.77                 |
| 116            | 5580            | 27.57                 |
| 140            | 5700            | 21.55                 |
| 144 (U-NII-2C) | 5720            | 19.82                 |
| 144 (U-NII-3)  | 5720            | 8.87                  |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 52                            | 5260       | 30.33       | 25.81                                  | > | 24 |
| 60                            | 5300       | 26.67       | 25.26                                  | > | 24 |
| 64                            | 5320       | 26.05       | 25.15                                  | > | 24 |
| 100                           | 5500       | 19.77       | 23.96                                  | < | 24 |
| 116                           | 5580       | 27.57       | 25.4                                   | > | 24 |
| 140                           | 5700       | 21.55       | 24.33                                  | > | 24 |
| 144 (U-NII-2C)                | 5720       | 19.82       | 23.97                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT40)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 54             | 5270            | 57.68                 |
| 62             | 5310            | 39.44                 |
| 102            | 5510            | 39.56                 |
| 118            | 5590            | 52.86                 |
| 134            | 5670            | 39.64                 |
| 142 (U-NII-2C) | 5710            | 40.26                 |
| 142 (U-NII-3)  | 5710            | 12.98                 |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 54                            | 5270       | 57.68       | 28.61                                  | > | 24 |
| 62                            | 5310       | 39.44       | 26.95                                  | > | 24 |
| 102                           | 5510       | 39.56       | 26.97                                  | > | 24 |
| 118                           | 5590       | 52.86       | 28.23                                  | > | 24 |
| 134                           | 5670       | 39.64       | 26.98                                  | > | 24 |
| 142 (U-NII-2C)                | 5710       | 40.26       | 27.04                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT80)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 58             | 5290            | 79.89                 |
| 106            | 5530            | 79.76                 |
| 122            | 5610            | 99.9                  |
| 138 (U-NII-2C) | 5690            | 89.73                 |
| 138 (U-NII-3)  | 5690            | 20.78                 |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 58                            | 5290       | 79.89       | 30.02                                  | > | 24 |
| 106                           | 5530       | 79.76       | 30.01                                  | > | 24 |
| 122                           | 5610       | 99.90       | 30.99                                  | > | 24 |
| 138 (U-NII-2C)                | 5690       | 89.73       | 30.52                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT160)

| Channel       | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------------|-----------------|-----------------------|
| 50 (U-NII-1)  | 5250            | 81.02                 |
| 50 (U-NII-2A) | 5250            | 80.79                 |
| 114           | 5570            | 161.86                |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 50 (U-NII-2A)                 | 5250       | 80.79       | 30.07                                  | > | 24 |
| 114                           | 5570       | 161.86      | 33.09                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 26-tone RU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 64             | 5320            | 19.87                 |
| 100            | 5500            | 19.86                 |
| 140            | 5700            | 19.92                 |
| 144 (U-NII-2C) | 5720            | 14.1                  |
| 144 (U-NII-3)  | 5720            | 5.41                  |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 19.87       | 23.98                                  | < | 24 |
| 100                           | 5500       | 19.86       | 23.97                                  | < | 24 |
| 140                           | 5700       | 19.92       | 23.99                                  | < | 24 |
| 144 (U-NII-2C)                | 5720       | 14.10       | 22.49                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 52-tone RU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 64             | 5320            | 21.34                 |
| 100            | 5500            | 21.65                 |
| 140            | 5700            | 21.22                 |
| 144 (U-NII-2C) | 5720            | 14.47                 |
| 144 (U-NII-3)  | 5720            | 5.94                  |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 21.34       | 24.29                                  | > | 24 |
| 100                           | 5500       | 21.65       | 24.35                                  | > | 24 |
| 140                           | 5700       | 21.22       | 24.26                                  | > | 24 |
| 144 (U-NII-2C)                | 5720       | 14.47       | 22.6                                   | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 106-tone RU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 64             | 5320            | 24.31                 |
| 100            | 5500            | 23.43                 |
| 140            | 5700            | 21.21                 |
| 144 (U-NII-2C) | 5720            | 14.55                 |
| 144 (U-NII-3)  | 5720            | 8.41                  |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 24.31       | 24.85                                  | > | 24 |
| 100                           | 5500       | 23.43       | 24.69                                  | > | 24 |
| 140                           | 5700       | 21.21       | 24.26                                  | > | 24 |
| 144 (U-NII-2C)                | 5720       | 14.55       | 22.62                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 52+26-tone MRU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 64             | 5320            | 21.6                  |
| 100            | 5500            | 21.43                 |
| 140            | 5700            | 19.69                 |
| 144 (U-NII-2C) | 5720            | 14.21                 |
| 144 (U-NII-3)  | 5720            | 5.63                  |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 21.60       | 24.34                                  | > | 24 |
| 100                           | 5500       | 21.43       | 24.31                                  | > | 24 |
| 140                           | 5700       | 19.69       | 23.94                                  | < | 24 |
| 144 (U-NII-2C)                | 5720       | 14.21       | 22.52                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 106+26-tone MRU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 64             | 5320            | 19.03                 |
| 100            | 5500            | 19.09                 |
| 140            | 5700            | 21.56                 |
| 144 (U-NII-2C) | 5720            | 16.52                 |
| 144 (U-NII-3)  | 5720            | 11.09                 |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 19.03       | 23.79                                  | < | 24 |
| 100                           | 5500       | 19.09       | 23.8                                   | < | 24 |
| 140                           | 5700       | 21.56       | 24.33                                  | > | 24 |
| 144 (U-NII-2C)                | 5720       | 16.52       | 23.18                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT80) 484+242-tone MRU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|----------------|-----------------|-----------------------|
| 58             | 5290            | 79.98                 |
| 106            | 5530            | 80.11                 |
| 122            | 5610            | 139.03                |
| 138 (U-NII-2C) | 5690            | 96.25                 |
| 138 (U-NII-3)  | 5690            | 45.18                 |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 58                            | 5290       | 79.98       | 30.02                                  | > | 24 |
| 106                           | 5530       | 80.11       | 30.03                                  | > | 24 |
| 122                           | 5610       | 139.03      | 32.43                                  | > | 24 |
| 138 (U-NII-2C)                | 5690       | 96.25       | 30.83                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT160) 996+484-tone MRU

| Channel       | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------------|-----------------|-----------------------|
| 50 (U-NII-1)  | 5250            | 80.82                 |
| 50 (U-NII-2A) | 5250            | 40.96                 |
| 114           | 5570            | 162.01                |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 50 (U-NII-2A)                 | 5250       | 40.96       | 27.12                                  | > | 24 |
| 114                           | 5570       | 162.01      | 33.09                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

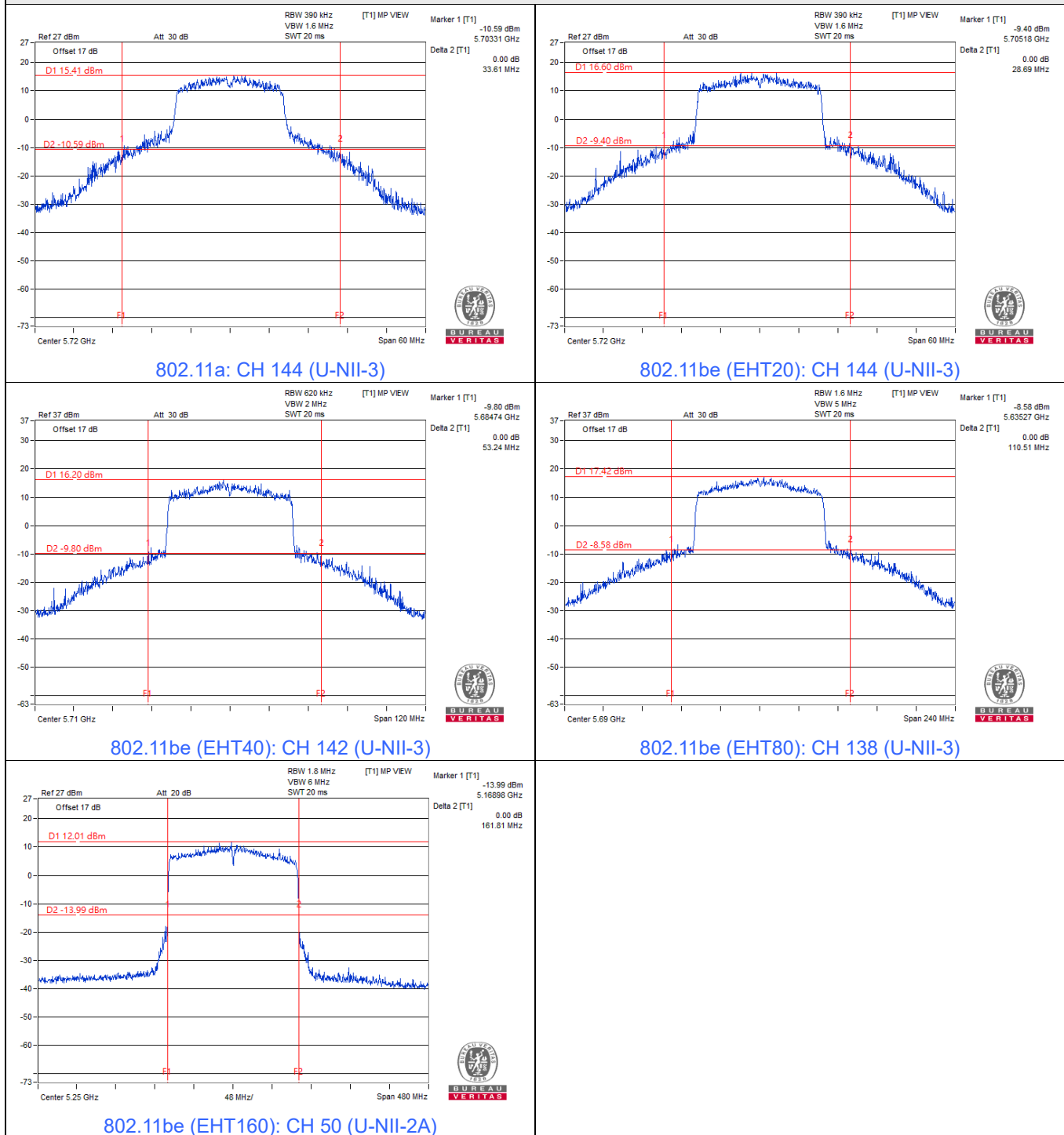
802.11be (EHT160) 996+484+242-tone MRU

| Channel       | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------------|-----------------|-----------------------|
| 50 (U-NII-1)  | 5250            | 80.79                 |
| 50 (U-NII-2A) | 5250            | 61.36                 |
| 114           | 5570            | 161.78                |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 50 (U-NII-2A)                 | 5250       | 61.36       | 28.87                                  | > | 24 |
| 114                           | 5570       | 161.78      | 33.08                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

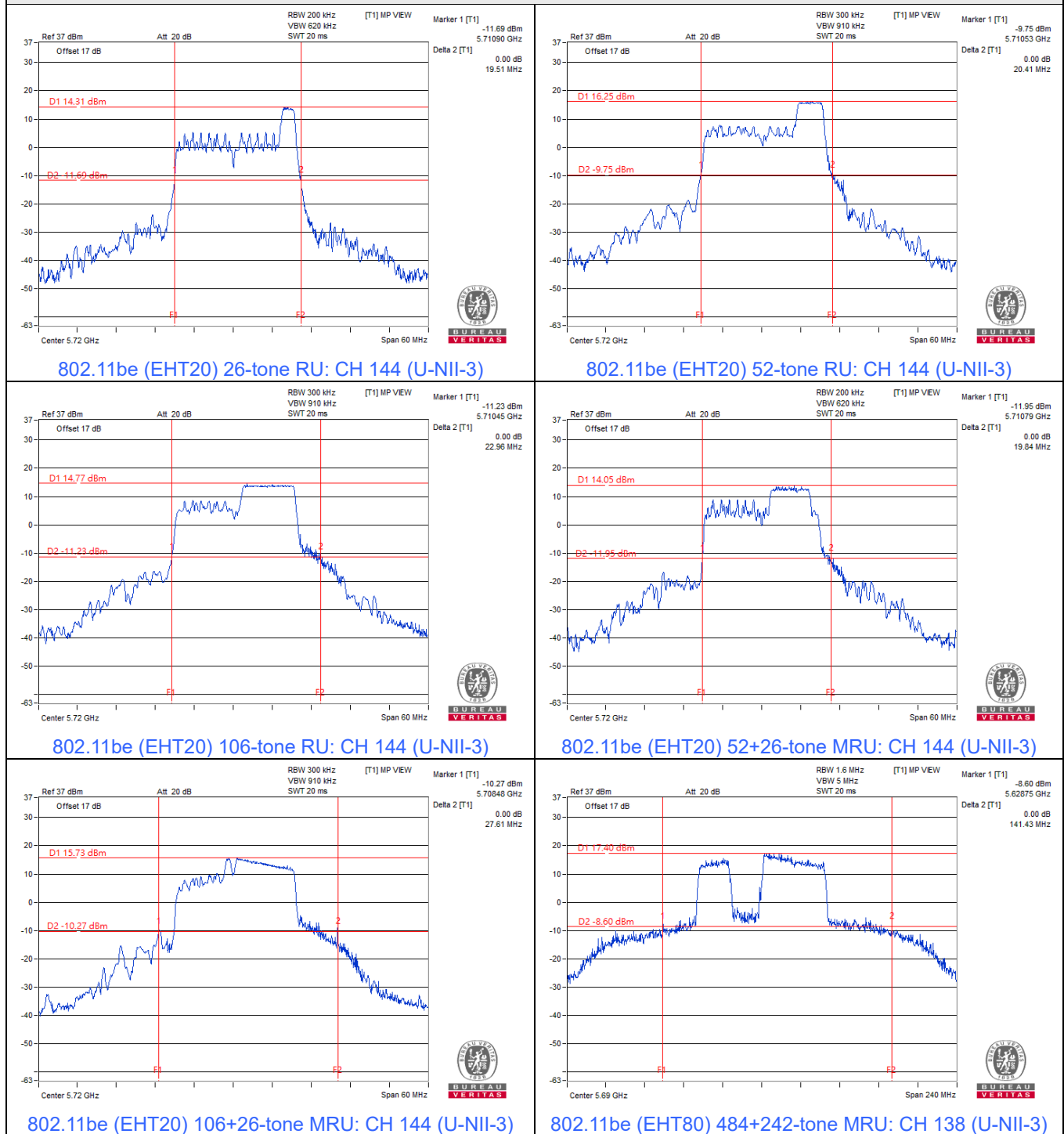
## Spectrum Plot of Minimum Value



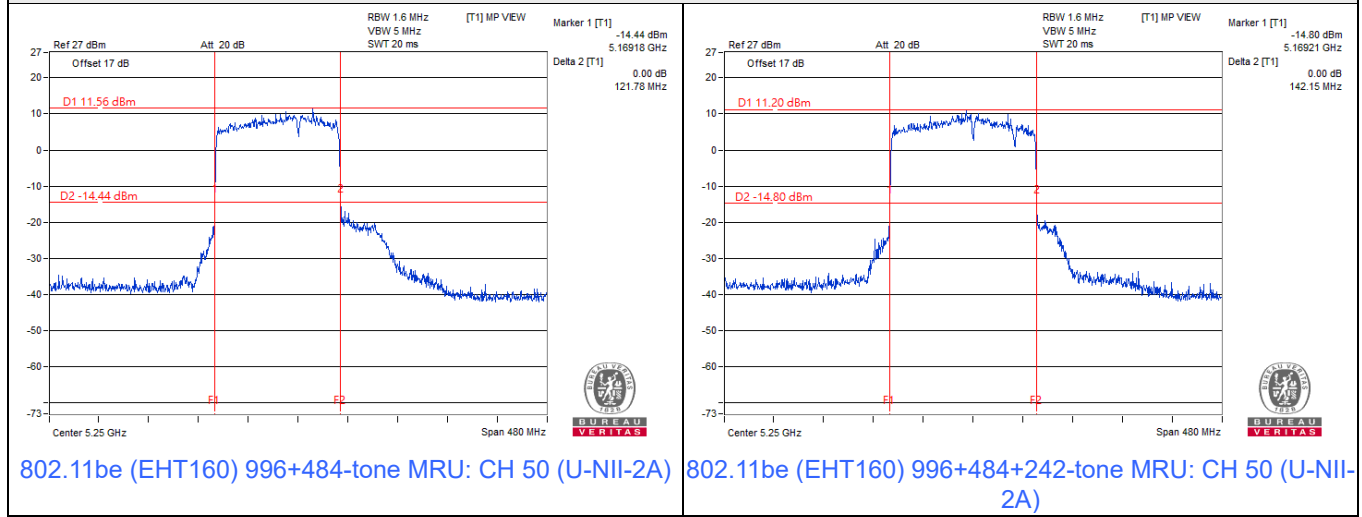
### Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

## Spectrum Plot of Minimum Value



# Spectrum Plot of Minimum Value



## Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

|              |         |                           |              |            |           |
|--------------|---------|---------------------------|--------------|------------|-----------|
| Input Power: | 3.3 Vdc | Environmental Conditions: | 25°C, 60% RH | Tested By: | Henry Hsu |
|--------------|---------|---------------------------|--------------|------------|-----------|

## 2Tx

### 802.11a

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 52             | 5260            | 18.38                 | 18.08   |
| 60             | 5300            | 18.47                 | 18.55   |
| 64             | 5320            | 19.48                 | 18.13   |
| 100            | 5500            | 19.63                 | 18.10   |
| 116            | 5580            | 18.13                 | 18.07   |
| 140            | 5700            | 18.29                 | 19.28   |
| 144 (U-NII-2C) | 5720            | 14.17                 | 14.26   |
| 144 (U-NII-3)  | 5720            | 4.00                  | 4.09    |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 52                            | 5260       | 18.08       | 23.57                                  | < | 24 |
| 60                            | 5300       | 18.47       | 23.66                                  | < | 24 |
| 64                            | 5320       | 18.13       | 23.58                                  | < | 24 |
| 100                           | 5500       | 18.10       | 23.57                                  | < | 24 |
| 116                           | 5580       | 18.07       | 23.56                                  | < | 24 |
| 140                           | 5700       | 18.29       | 23.62                                  | < | 24 |
| 144 (U-NII-2C)                | 5720       | 14.17       | 22.51                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 52             | 5260            | 20.08                 | 23.34   |
| 60             | 5300            | 19.78                 | 19.79   |
| 64             | 5320            | 19.76                 | 19.79   |
| 100            | 5500            | 19.76                 | 19.83   |
| 116            | 5580            | 22.05                 | 22.87   |
| 140            | 5700            | 20.65                 | 19.78   |
| 144 (U-NII-2C) | 5720            | 17.19                 | 17.12   |
| 144 (U-NII-3)  | 5720            | 5.09                  | 7.12    |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 52                            | 5260       | 20.08       | 24.02                                  | > | 24 |
| 60                            | 5300       | 19.78       | 23.96                                  | < | 24 |
| 64                            | 5320       | 19.76       | 23.95                                  | < | 24 |
| 100                           | 5500       | 19.76       | 23.95                                  | < | 24 |
| 116                           | 5580       | 22.05       | 24.43                                  | > | 24 |
| 140                           | 5700       | 19.78       | 23.96                                  | < | 24 |
| 144 (U-NII-2C)                | 5720       | 17.12       | 23.33                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT40)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 54             | 5270            | 58.12                 | 56.78   |
| 62             | 5310            | 39.53                 | 39.71   |
| 102            | 5510            | 39.62                 | 39.57   |
| 118            | 5590            | 56.80                 | 51.93   |
| 134            | 5670            | 39.60                 | 39.48   |
| 142 (U-NII-2C) | 5710            | 40.60                 | 45.39   |
| 142 (U-NII-3)  | 5710            | 13.35                 | 19.71   |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 54                            | 5270       | 56.78       | 28.54                                  | > | 24 |
| 62                            | 5310       | 39.53       | 26.96                                  | > | 24 |
| 102                           | 5510       | 39.57       | 26.97                                  | > | 24 |
| 118                           | 5590       | 51.93       | 28.15                                  | > | 24 |
| 134                           | 5670       | 39.48       | 26.96                                  | > | 24 |
| 142 (U-NII-2C)                | 5710       | 40.60       | 27.08                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT80)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 58             | 5290            | 79.83                 | 79.89   |
| 106            | 5530            | 79.90                 | 80.01   |
| 122            | 5610            | 79.98                 | 102.77  |
| 138 (U-NII-2C) | 5690            | 90.74                 | 87.09   |
| 138 (U-NII-3)  | 5690            | 28.00                 | 22.26   |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 58                            | 5290       | 79.83       | 30.02                                  | > | 24 |
| 106                           | 5530       | 79.90       | 30.02                                  | > | 24 |
| 122                           | 5610       | 79.98       | 30.02                                  | > | 24 |
| 138 (U-NII-2C)                | 5690       | 87.09       | 30.39                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT160)

| Channel       | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|---------------|-----------------|-----------------------|---------|
|               |                 | Chain 0               | Chain 1 |
| 50 (U-NII-1)  | 5250            | 81.08                 | 81.29   |
| 50 (U-NII-2A) | 5250            | 80.77                 | 80.88   |
| 114           | 5570            | 162.01                | 162.14  |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 50 (U-NII-2A)                 | 5250       | 80.77       | 30.07                                  | > | 24 |
| 114                           | 5570       | 162.01      | 33.09                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 26-tone RU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 64             | 5320            | 19.74                 | 19.50   |
| 100            | 5500            | 19.99                 | 19.62   |
| 140            | 5700            | 19.84                 | 19.70   |
| 144 (U-NII-2C) | 5720            | 14.13                 | 14.13   |
| 144 (U-NII-3)  | 5720            | 5.29                  | 5.28    |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 19.50       | 23.9                                   | < | 24 |
| 100                           | 5500       | 19.62       | 23.92                                  | < | 24 |
| 140                           | 5700       | 19.70       | 23.94                                  | < | 24 |
| 144 (U-NII-2C)                | 5720       | 14.13       | 22.5                                   | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 52-tone RU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 64             | 5320            | 19.63                 | 20.61   |
| 100            | 5500            | 20.48                 | 21.09   |
| 140            | 5700            | 21.79                 | 21.40   |
| 144 (U-NII-2C) | 5720            | 14.36                 | 14.13   |
| 144 (U-NII-3)  | 5720            | 5.28                  | 5.25    |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 19.63       | 23.92                                  | < | 24 |
| 100                           | 5500       | 20.48       | 24.11                                  | > | 24 |
| 140                           | 5700       | 21.40       | 24.3                                   | > | 24 |
| 144 (U-NII-2C)                | 5720       | 14.13       | 22.5                                   | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 106-tone RU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 64             | 5320            | 22.83                 | 20.71   |
| 100            | 5500            | 20.96                 | 20.46   |
| 140            | 5700            | 21.80                 | 21.07   |
| 144 (U-NII-2C) | 5720            | 14.52                 | 14.28   |
| 144 (U-NII-3)  | 5720            | 6.31                  | 5.26    |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 20.71       | 24.16                                  | > | 24 |
| 100                           | 5500       | 20.46       | 24.1                                   | > | 24 |
| 140                           | 5700       | 21.07       | 24.23                                  | > | 24 |
| 144 (U-NII-2C)                | 5720       | 14.28       | 22.54                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 52+26-tone MRU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 64             | 5320            | 19.53                 | 19.78   |
| 100            | 5500            | 19.07                 | 18.73   |
| 140            | 5700            | 19.65                 | 19.58   |
| 144 (U-NII-2C) | 5720            | 14.48                 | 14.38   |
| 144 (U-NII-3)  | 5720            | 4.83                  | 4.29    |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 19.53       | 23.9                                   | < | 24 |
| 100                           | 5500       | 18.73       | 23.72                                  | < | 24 |
| 140                           | 5700       | 19.58       | 23.91                                  | < | 24 |
| 144 (U-NII-2C)                | 5720       | 14.38       | 22.57                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT20) 106+26-tone MRU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 64             | 5320            | 18.80                 | 18.97   |
| 100            | 5500            | 19.08                 | 18.98   |
| 140            | 5700            | 18.97                 | 19.00   |
| 144 (U-NII-2C) | 5720            | 14.10                 | 14.13   |
| 144 (U-NII-3)  | 5720            | 5.88                  | 4.84    |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 64                            | 5320       | 18.80       | 23.74                                  | < | 24 |
| 100                           | 5500       | 18.98       | 23.78                                  | < | 24 |
| 140                           | 5700       | 18.97       | 23.78                                  | < | 24 |
| 144 (U-NII-2C)                | 5720       | 14.10       | 22.49                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT80) 484+242-tone MRU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 58             | 5290            | 80.12                 | 79.90   |
| 106            | 5530            | 79.89                 | 80.00   |
| 122            | 5610            | 88.54                 | 80.16   |
| 138 (U-NII-2C) | 5690            | 75.14                 | 76.56   |
| 138 (U-NII-3)  | 5690            | 10.88                 | 15.93   |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 58                            | 5290       | 79.90       | 30.02                                  | > | 24 |
| 106                           | 5530       | 79.89       | 30.02                                  | > | 24 |
| 122                           | 5610       | 80.16       | 30.03                                  | > | 24 |
| 138 (U-NII-2C)                | 5690       | 75.14       | 29.75                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11be (EHT160) 996+484-tone MRU

| Channel       | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|---------------|-----------------|-----------------------|---------|
|               |                 | Chain 0               | Chain 1 |
| 50 (U-NII-1)  | 5250            | 80.95                 | 80.98   |
| 50 (U-NII-2A) | 5250            | 40.97                 | 40.95   |
| 114           | 5570            | 161.90                | 161.90  |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 50 (U-NII-2A)                 | 5250       | 40.95       | 27.12                                  | > | 24 |
| 114                           | 5570       | 161.90      | 33.09                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

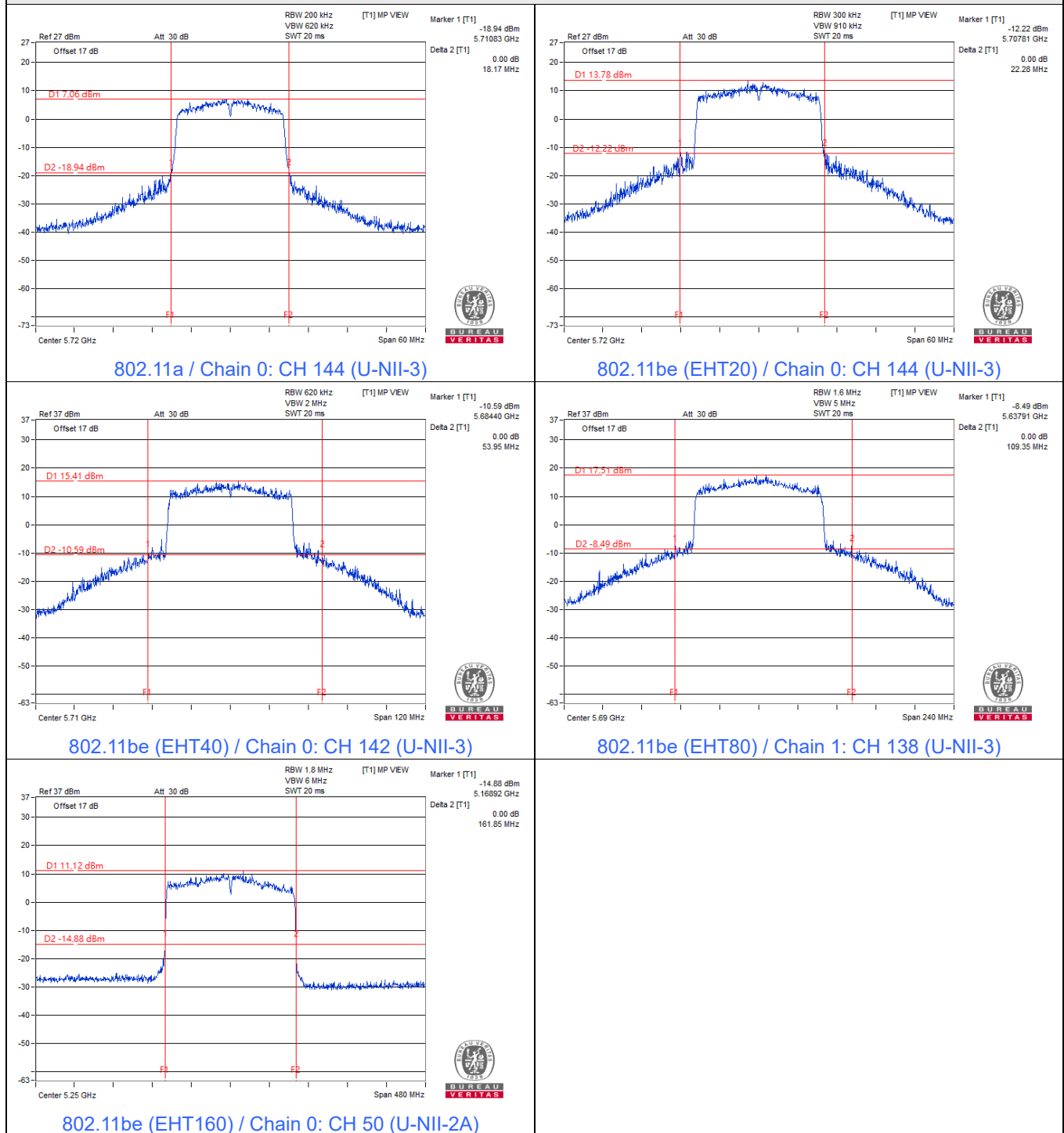
### 802.11be (EHT160) 996+484+242-tone MRU

| Channel       | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|---------------|-----------------|-----------------------|---------|
|               |                 | Chain 0               | Chain 1 |
| 50 (U-NII-1)  | 5250            | 80.89                 | 80.87   |
| 50 (U-NII-2A) | 5250            | 61.31                 | 61.34   |
| 114           | 5570            | 161.83                | 161.87  |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 50 (U-NII-2A)                 | 5250       | 61.31       | 28.87                                  | > | 24 |
| 114                           | 5570       | 161.83      | 33.09                                  | > | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

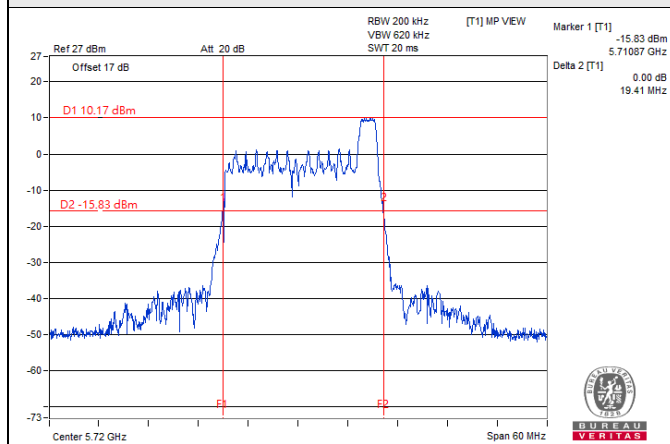
## Spectrum Plot of Minimum Value



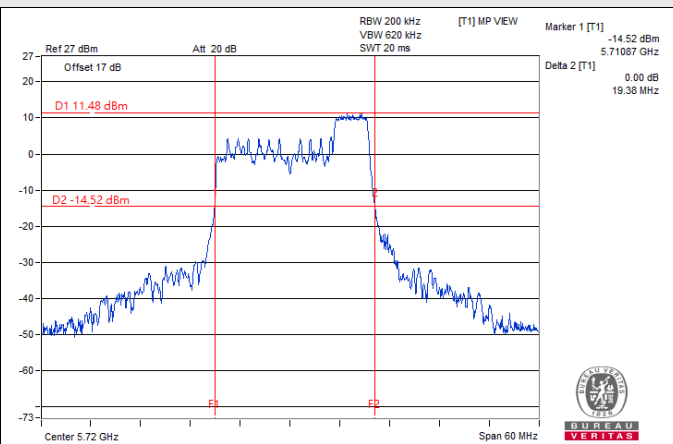
### Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

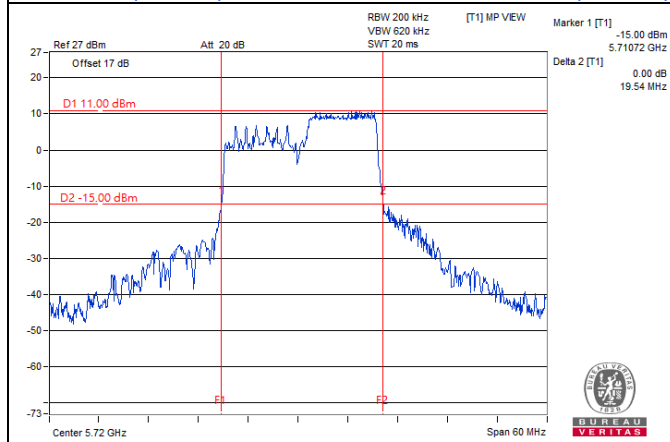
## Spectrum Plot of Minimum Value



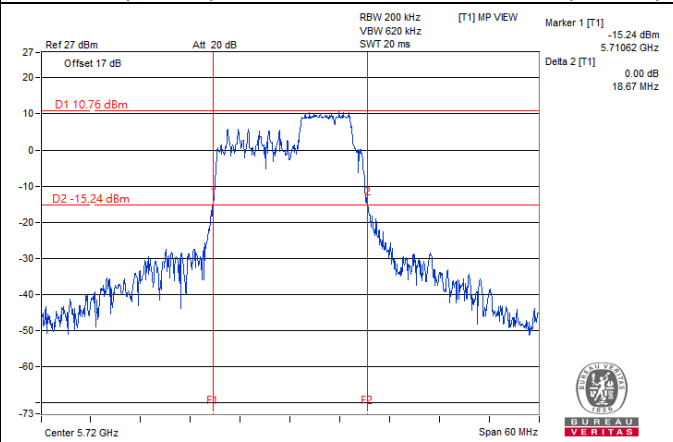
802.11be (EHT20) 26-tone RU / Chain 1: CH 144 (U-NII-3)



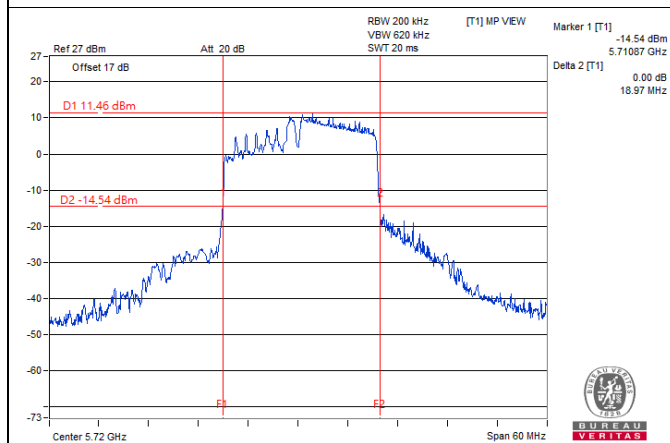
802.11be (EHT20) 52-tone RU / Chain 1: CH 144 (U-NII-3)



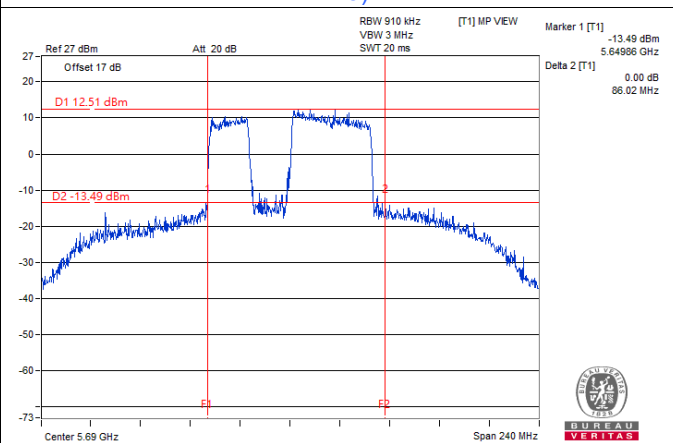
802.11be (EHT20) 106-tone RU / Chain 1: CH 144 (U-NII-3)



802.11be (EHT20) 52+26-tone MRU / Chain 1: CH 144 (U-NII-3)

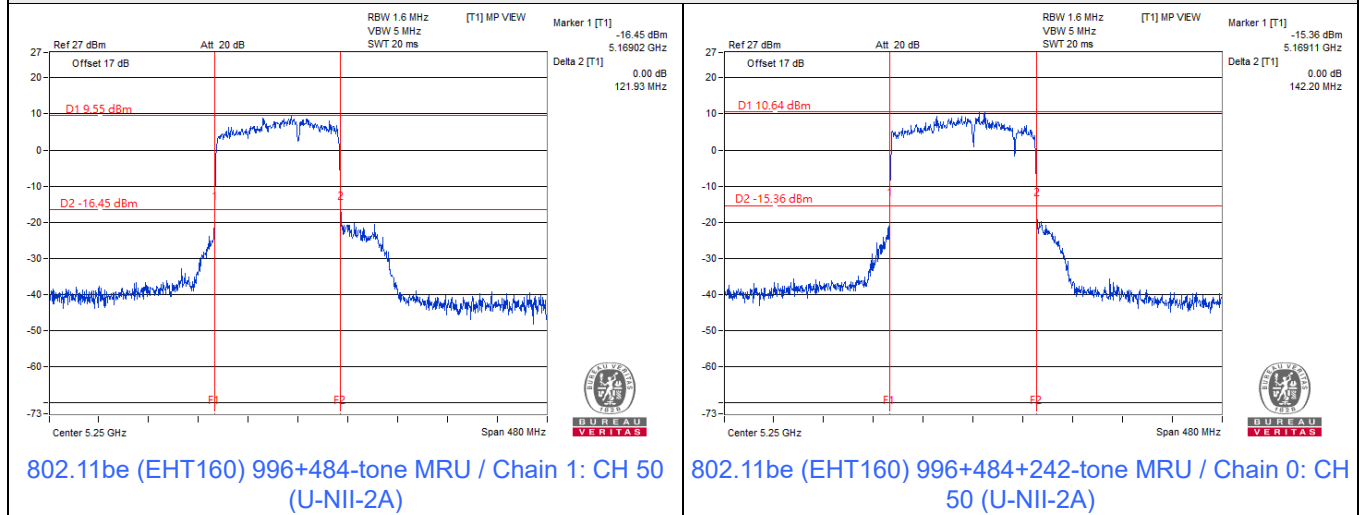


802.11be (EHT20) 106+26-tone MRU / Chain 1: CH 144 (U-NII-3)



802.11be (EHT80) 484+242-tone MRU / Chain 0: CH 138 (U-NII-3)

# Spectrum Plot of Minimum Value



## Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

## 7.2 RF Output Power

|              |         |                           |              |            |           |
|--------------|---------|---------------------------|--------------|------------|-----------|
| Input Power: | 3.3 Vdc | Environmental Conditions: | 25°C, 60% RH | Tested By: | Henry Hsu |
|--------------|---------|---------------------------|--------------|------------|-----------|

1Tx

802.11a

| Chan.           | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|--------------------|---------------------|-------------------|-------------|
| 36              | 5180              | 126.474            | 21.02               | 24                | Pass        |
| 40              | 5200              | 147.571            | 21.69               | 24                | Pass        |
| 48              | 5240              | 147.911            | 21.70               | 24                | Pass        |
| 52              | 5260              | 146.218            | 21.65               | 24                | Pass        |
| 60              | 5300              | 142.561            | 21.54               | 23.76             | Pass        |
| 64              | 5320              | 132.13             | 21.21               | 24                | Pass        |
| 100             | 5500              | 130.617            | 21.16               | 24                | Pass        |
| 116             | 5580              | 144.544            | 21.60               | 24                | Pass        |
| 140             | 5700              | 128.233            | 21.08               | 24                | Pass        |
| *144 (U-NII-2C) | 5720              | 116.934            | 20.68               | 24                | Pass        |
| *144 (U-NII-3)  | 5720              | 20.134             | 13.04               | 30                | Pass        |
| 149             | 5745              | 167.88             | 22.25               | 30                | Pass        |
| 157             | 5785              | 166.725            | 22.22               | 30                | Pass        |
| 165             | 5825              | 171.791            | 22.35               | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi <= 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi <= 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi <= 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi <= 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT20)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 130.617               | 21.16                  | 24                   | Pass        |
| 40              | 5200                 | 141.579               | 21.51                  | 24                   | Pass        |
| 48              | 5240                 | 141.906               | 21.52                  | 24                   | Pass        |
| 52              | 5260                 | 141.254               | 21.50                  | 24                   | Pass        |
| 60              | 5300                 | 142.233               | 21.53                  | 24                   | Pass        |
| 64              | 5320                 | 143.88                | 21.58                  | 24                   | Pass        |
| 100             | 5500                 | 142.561               | 21.54                  | 23.96                | Pass        |
| 120             | 5600                 | 141.579               | 21.51                  | 24                   | Pass        |
| 140             | 5700                 | 126.474               | 21.02                  | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 108.393               | 20.35                  | 23.97                | Pass        |
| *144 (U-NII-3)  | 5720                 | 21.627                | 13.35                  | 30                   | Pass        |
| 149             | 5745                 | 159.588               | 22.03                  | 30                   | Pass        |
| 157             | 5785                 | 158.855               | 22.01                  | 30                   | Pass        |
| 165             | 5825                 | 161.808               | 22.09                  | 30                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

#### 802.11ac (VHT40)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 38              | 5190                 | 85.114                | 19.30                  | 24                   | Pass        |
| 46              | 5230                 | 128.825               | 21.10                  | 24                   | Pass        |
| 54              | 5270                 | 126.474               | 21.02                  | 24                   | Pass        |
| 62              | 5310                 | 89.536                | 19.52                  | 24                   | Pass        |
| 102             | 5510                 | 102.329               | 20.10                  | 24                   | Pass        |
| 118             | 5590                 | 126.183               | 21.01                  | 24                   | Pass        |
| 134             | 5670                 | 126.474               | 21.02                  | 24                   | Pass        |
| *142 (U-NII-2C) | 5710                 | 115.345               | 20.62                  | 24                   | Pass        |
| *142 (U-NII-3)  | 5710                 | 7.464                 | 8.73                   | 30                   | Pass        |
| 151             | 5755                 | 127.35                | 21.05                  | 30                   | Pass        |
| 159             | 5795                 | 131.826               | 21.20                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

#### 802.11ac (VHT80)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 42              | 5210                 | 83.176                | 19.20                  | 24                   | Pass        |
| 58              | 5290                 | 89.331                | 19.51                  | 24                   | Pass        |
| 106             | 5530                 | 90.991                | 19.59                  | 24                   | Pass        |
| 122             | 5610                 | 112.202               | 20.50                  | 24                   | Pass        |
| *138 (U-NII-2C) | 5690                 | 118.556               | 20.74                  | 24                   | Pass        |
| *138 (U-NII-3)  | 5690                 | 3.04                  | 4.83                   | 30                   | Pass        |
| 155             | 5775                 | 126.183               | 21.01                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT160)

| Chan.          | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| *50 (U-NII-1)  | 5250                 | 28.226                | 14.51                  | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 27.774                | 14.44                  | 24                   | Pass        |
| 114            | 5570                 | 65.464                | 18.16                  | 24                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 133.352               | 21.25                  | 24                   | Pass        |
| 40              | 5200                 | 142.233               | 21.53                  | 24                   | Pass        |
| 48              | 5240                 | 142.889               | 21.55                  | 24                   | Pass        |
| 52              | 5260                 | 143.219               | 21.56                  | 24                   | Pass        |
| 60              | 5300                 | 144.212               | 21.59                  | 24                   | Pass        |
| 64              | 5320                 | 146.555               | 21.66                  | 24                   | Pass        |
| 100             | 5500                 | 144.544               | 21.60                  | 23.96                | Pass        |
| 120             | 5600                 | 143.549               | 21.57                  | 24                   | Pass        |
| 140             | 5700                 | 127.938               | 21.07                  | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 110.154               | 20.42                  | 23.97                | Pass        |
| *144 (U-NII-3)  | 5720                 | 22.131                | 13.45                  | 30                   | Pass        |
| 149             | 5745                 | 161.808               | 22.09                  | 30                   | Pass        |
| 157             | 5785                 | 160.694               | 22.06                  | 30                   | Pass        |
| 165             | 5825                 | 163.682               | 22.14                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE40)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 38              | 5190                 | 86.099                | 19.35                  | 24                   | Pass        |
| 46              | 5230                 | 130.918               | 21.17                  | 24                   | Pass        |
| 54              | 5270                 | 127.644               | 21.06                  | 24                   | Pass        |
| 62              | 5310                 | 91.201                | 19.60                  | 24                   | Pass        |
| 102             | 5510                 | 103.992               | 20.17                  | 24                   | Pass        |
| 118             | 5590                 | 127.35                | 21.05                  | 24                   | Pass        |
| 134             | 5670                 | 127.938               | 21.07                  | 24                   | Pass        |
| *142 (U-NII-2C) | 5710                 | 117.49                | 20.70                  | 24                   | Pass        |
| *142 (U-NII-3)  | 5710                 | 7.674                 | 8.85                   | 30                   | Pass        |
| 151             | 5755                 | 131.22                | 21.18                  | 30                   | Pass        |
| 159             | 5795                 | 133.352               | 21.25                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE80)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 42              | 5210                 | 84.14                 | 19.25                  | 24                   | Pass        |
| 58              | 5290                 | 90.157                | 19.55                  | 24                   | Pass        |
| 106             | 5530                 | 92.897                | 19.68                  | 24                   | Pass        |
| 122             | 5610                 | 112.72                | 20.52                  | 24                   | Pass        |
| *138 (U-NII-2C) | 5690                 | 119.653               | 20.78                  | 24                   | Pass        |
| *138 (U-NII-3)  | 5690                 | 3.14                  | 4.97                   | 30                   | Pass        |
| 155             | 5775                 | 127.057               | 21.04                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE160)

| Chan.          | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| *50 (U-NII-1)  | 5250                 | 28.883                | 14.61                  | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 28.291                | 14.52                  | 24                   | Pass        |
| 114            | 5570                 | 67.298                | 18.28                  | 24                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 135.207               | 21.31                  | 24                   | Pass        |
| 40              | 5200                 | 143.88                | 21.58                  | 24                   | Pass        |
| 48              | 5240                 | 144.212               | 21.59                  | 24                   | Pass        |
| 52              | 5260                 | 144.877               | 21.61                  | 24                   | Pass        |
| 60              | 5300                 | 145.881               | 21.64                  | 24                   | Pass        |
| 64              | 5320                 | 148.594               | 21.72                  | 24                   | Pass        |
| 100             | 5500                 | 147.231               | 21.68                  | 23.96                | Pass        |
| 116             | 5580                 | 145.211               | 21.62                  | 24                   | Pass        |
| 140             | 5700                 | 130.317               | 21.15                  | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 111.944               | 20.49                  | 23.97                | Pass        |
| *144 (U-NII-3)  | 5720                 | 22.439                | 13.51                  | 30                   | Pass        |
| 149             | 5745                 | 163.682               | 22.14                  | 30                   | Pass        |
| 157             | 5785                 | 162.181               | 22.10                  | 30                   | Pass        |
| 165             | 5825                 | 165.196               | 22.18                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT40)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 38              | 5190                 | 87.096                | 19.40                  | 24                   | Pass        |
| 46              | 5230                 | 133.045               | 21.24                  | 24                   | Pass        |
| 54              | 5270                 | 128.825               | 21.10                  | 24                   | Pass        |
| 62              | 5310                 | 92.683                | 19.67                  | 24                   | Pass        |
| 102             | 5510                 | 105.439               | 20.23                  | 24                   | Pass        |
| 118             | 5590                 | 128.529               | 21.09                  | 24                   | Pass        |
| 134             | 5670                 | 130.017               | 21.14                  | 24                   | Pass        |
| *142 (U-NII-2C) | 5710                 | 119.674               | 20.78                  | 24                   | Pass        |
| *142 (U-NII-3)  | 5710                 | 7.852                 | 8.95                   | 30                   | Pass        |
| 151             | 5755                 | 133.352               | 21.25                  | 30                   | Pass        |
| 159             | 5795                 | 135.831               | 21.33                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT80)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 42              | 5210                 | 85.507                | 19.32                  | 24                   | Pass        |
| 58              | 5290                 | 91.201                | 19.60                  | 24                   | Pass        |
| 106             | 5530                 | 94.189                | 19.74                  | 24                   | Pass        |
| 122             | 5610                 | 114.815               | 20.60                  | 24                   | Pass        |
| *138 (U-NII-2C) | 5690                 | 124.43                | 20.95                  | 24                   | Pass        |
| *138 (U-NII-3)  | 5690                 | 3.169                 | 5.01                   | 30                   | Pass        |
| 155             | 5775                 | 128.529               | 21.09                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT160)

| Chan.          | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| *50 (U-NII-1)  | 5250                 | 29.42                 | 14.69                  | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 28.684                | 14.58                  | 24                   | Pass        |
| 114            | 5570                 | 68.391                | 18.35                  | 24                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) 26-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 33.189                | 15.21                  | 24                   | Pass        |
| 64              | 5320                 | 32.734                | 15.15                  | 23.98                | Pass        |
| 100             | 5500                 | 32.063                | 15.06                  | 23.97                | Pass        |
| 140             | 5700                 | 33.497                | 15.25                  | 23.99                | Pass        |
| *144 (U-NII-2C) | 5720                 | 0.5555                | -2.55                  | 22.49                | Pass        |
| *144 (U-NII-3)  | 5720                 | 32.709                | 15.15                  | 30                   | Pass        |
| 149             | 5745                 | 159.956               | 22.04                  | 30                   | Pass        |
| 165             | 5825                 | 158.855               | 22.01                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) 52-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 65.313                | 18.15                  | 24                   | Pass        |
| 64              | 5320                 | 64.714                | 18.11                  | 24                   | Pass        |
| 100             | 5500                 | 65.464                | 18.16                  | 24                   | Pass        |
| 140             | 5700                 | 66.834                | 18.25                  | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 1.865                 | 2.71                   | 22.6                 | Pass        |
| *144 (U-NII-3)  | 5720                 | 64.077                | 18.07                  | 30                   | Pass        |
| 149             | 5745                 | 159.588               | 22.03                  | 30                   | Pass        |
| 165             | 5825                 | 160.694               | 22.06                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) 106-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 131.826               | 21.20                  | 24                   | Pass        |
| 64              | 5320                 | 138.357               | 21.41                  | 24                   | Pass        |
| 100             | 5500                 | 136.458               | 21.35                  | 24                   | Pass        |
| 140             | 5700                 | 133.66                | 21.26                  | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 37.589                | 15.75                  | 22.62                | Pass        |
| *144 (U-NII-3)  | 5720                 | 43.058                | 16.34                  | 30                   | Pass        |
| 149             | 5745                 | 159.588               | 22.03                  | 30                   | Pass        |
| 165             | 5825                 | 160.694               | 22.06                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 26-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 33.574                | 15.26                  | 24                   | Pass        |
| 64              | 5320                 | 32.961                | 15.18                  | 23.98                | Pass        |
| 100             | 5500                 | 32.434                | 15.11                  | 23.97                | Pass        |
| 140             | 5700                 | 34.198                | 15.34                  | 23.99                | Pass        |
| *144 (U-NII-2C) | 5720                 | 0.5453                | -2.63                  | 22.49                | Pass        |
| *144 (U-NII-3)  | 5720                 | 33.012                | 15.19                  | 30                   | Pass        |
| 149             | 5745                 | 161.436               | 22.08                  | 30                   | Pass        |
| 165             | 5825                 | 160.325               | 22.05                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 52-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 65.917                | 18.19                  | 24                   | Pass        |
| 64              | 5320                 | 65.313                | 18.15                  | 24                   | Pass        |
| 100             | 5500                 | 66.069                | 18.20                  | 24                   | Pass        |
| 140             | 5700                 | 68.549                | 18.36                  | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 1.887                 | 2.76                   | 22.6                 | Pass        |
| *144 (U-NII-3)  | 5720                 | 65.268                | 18.15                  | 30                   | Pass        |
| 149             | 5745                 | 161.808               | 22.09                  | 30                   | Pass        |
| 165             | 5825                 | 162.93                | 22.12                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 106-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 132.739               | 21.23                  | 24                   | Pass        |
| 64              | 5320                 | 140.929               | 21.49                  | 24                   | Pass        |
| 100             | 5500                 | 138.995               | 21.43                  | 24                   | Pass        |
| 140             | 5700                 | 135.207               | 21.31                  | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 38.112                | 15.81                  | 22.62                | Pass        |
| *144 (U-NII-3)  | 5720                 | 43.557                | 16.39                  | 30                   | Pass        |
| 149             | 5745                 | 161.436               | 22.08                  | 30                   | Pass        |
| 165             | 5825                 | 162.93                | 22.12                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 52+26-tone MRU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 93.756                | 19.72                  | 24                   | Pass        |
| 64              | 5320                 | 91.411                | 19.61                  | 24                   | Pass        |
| 100             | 5500                 | 92.045                | 19.64                  | 24                   | Pass        |
| 140             | 5700                 | 38.107                | 15.81                  | 23.94                | Pass        |
| *144 (U-NII-2C) | 5720                 | 57.449                | 17.59                  | 22.52                | Pass        |
| *144 (U-NII-3)  | 5720                 | 35.833                | 15.54                  | 30                   | Pass        |
| 149             | 5745                 | 161.808               | 22.09                  | 30                   | Pass        |
| 165             | 5825                 | 164.437               | 22.16                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 106+26-tone MRU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 36              | 5180                 | 128.233               | 21.08                  | 24                   | Pass        |
| 64              | 5320                 | 127.35                | 21.05                  | 23.79                | Pass        |
| 100             | 5500                 | 126.474               | 21.02                  | 23.8                 | Pass        |
| 140             | 5700                 | 133.968               | 21.27                  | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 71.895                | 18.57                  | 23.18                | Pass        |
| *144 (U-NII-3)  | 5720                 | 30.882                | 14.90                  | 30                   | Pass        |
| 149             | 5745                 | 160.325               | 22.05                  | 30                   | Pass        |
| 165             | 5825                 | 163.305               | 22.13                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT80) 484+242-tone MRU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| 42              | 5210                 | 62.806                | 17.98                  | 24                   | Pass        |
| 58              | 5290                 | 46.026                | 16.63                  | 24                   | Pass        |
| 106             | 5530                 | 56.364                | 17.51                  | 24                   | Pass        |
| 122             | 5610                 | 95.499                | 19.80                  | 24                   | Pass        |
| *138 (U-NII-2C) | 5690                 | 94.004                | 19.73                  | 24                   | Pass        |
| *138 (U-NII-3)  | 5690                 | 4.788                 | 6.80                   | 30                   | Pass        |
| 155             | 5775                 | 85.114                | 19.30                  | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

#### 802.11be (EHT160) 996+484-tone MRU

| Chan.          | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| *50 (U-NII-1)  | 5250                 | 37.277                | 15.71                  | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 18.597                | 12.69                  | 24                   | Pass        |
| 114            | 5570                 | 65.013                | 18.13                  | 24                   | Pass        |

Notes:

1. \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

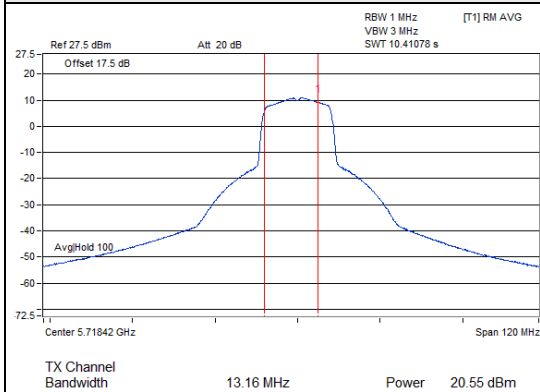
#### 802.11be (EHT160) 996+484+242-tone MRU

| Chan.          | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|-----------------------|------------------------|----------------------|-------------|
| *50 (U-NII-1)  | 5250                 | 23.606                | 13.73                  | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 17.14                 | 12.34                  | 24                   | Pass        |
| 114            | 5570                 | 50.234                | 17.01                  | 24                   | Pass        |

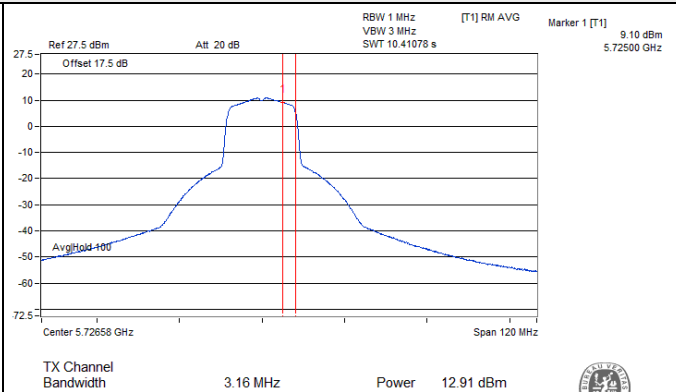
Notes:

1. \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the antenna gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

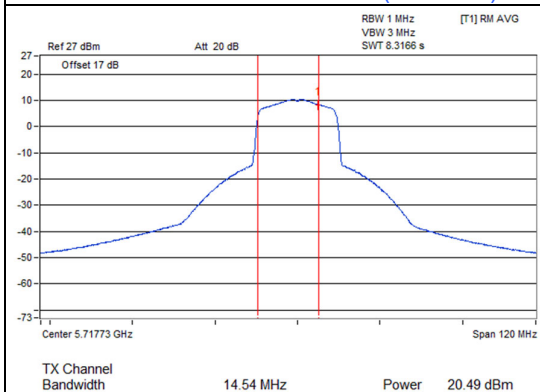
## Spectrum Plot for channel straddling



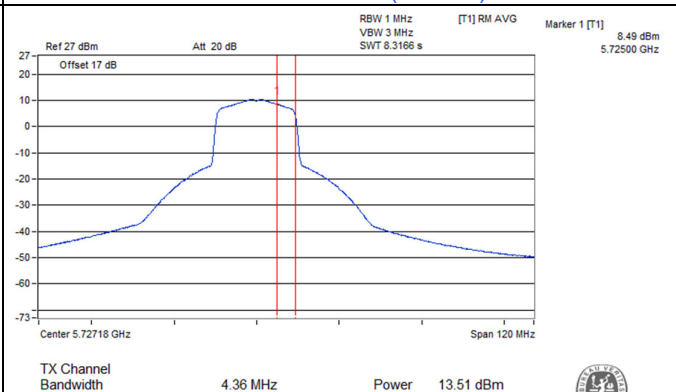
802.11a: CH 144 (U-NII-2C)



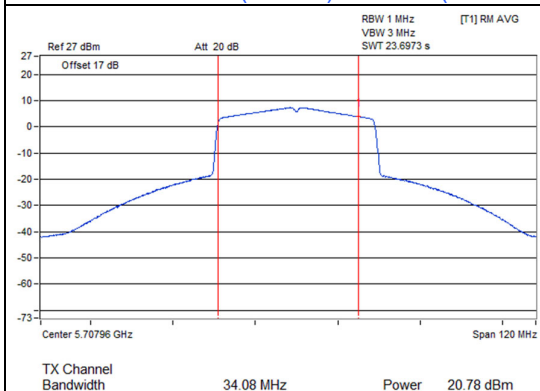
802.11a: CH 144 (U-NII-3)



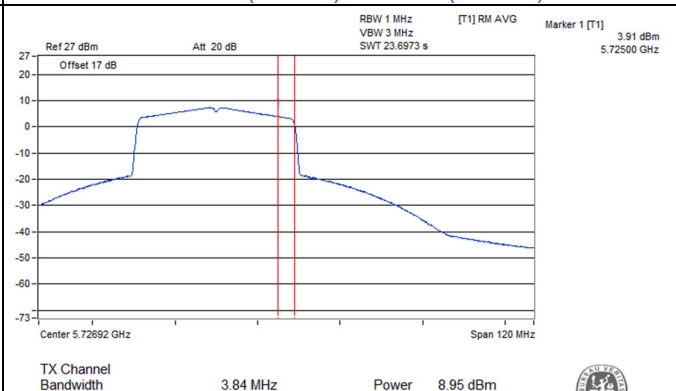
802.11be (EHT20): CH 144 (U-NII-2C)



802.11be (EHT20): CH 144 (U-NII-3)

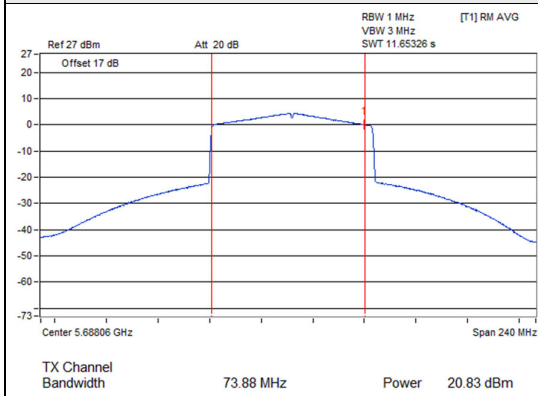


802.11be (EHT40): CH 142 (U-NII-2C)

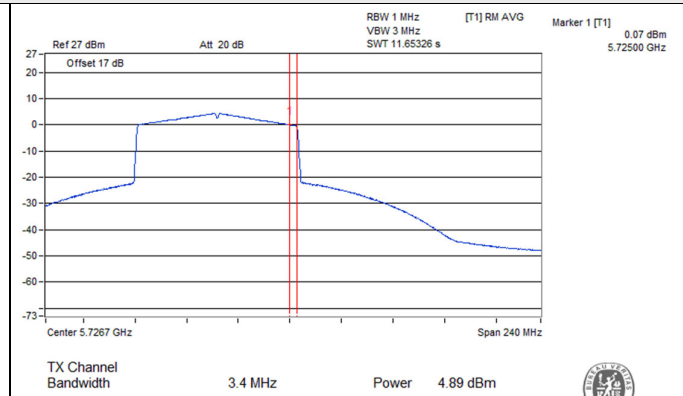


802.11be (EHT40): CH 142 (U-NII-3)

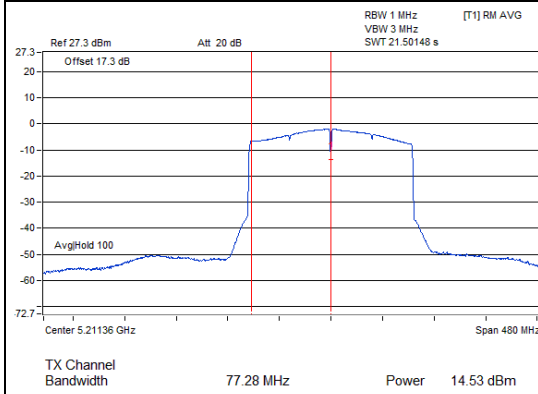
## Spectrum Plot for channel straddling



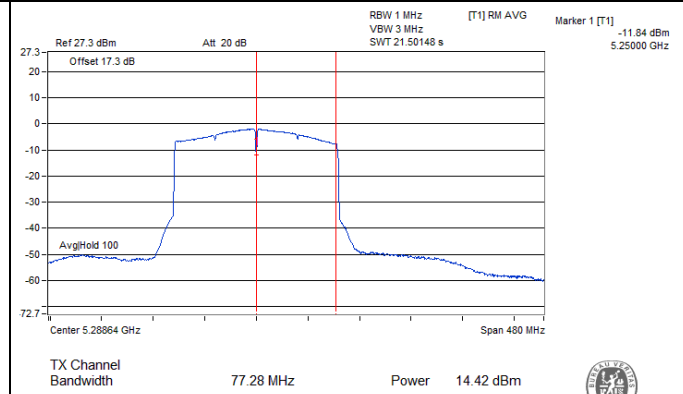
802.11be (EHT80): CH 138 (U-NII-2C)



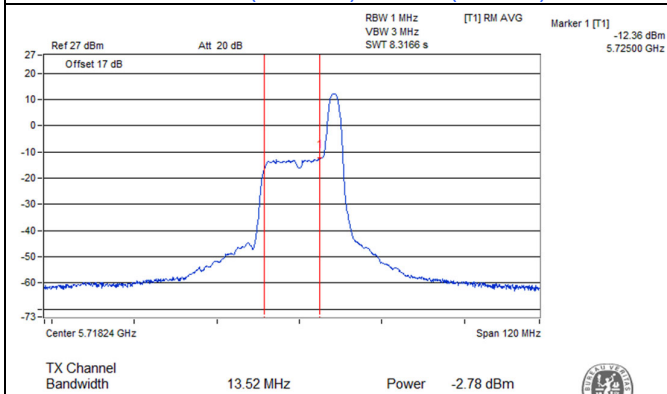
802.11be (EHT80): CH 138 (U-NII-3)



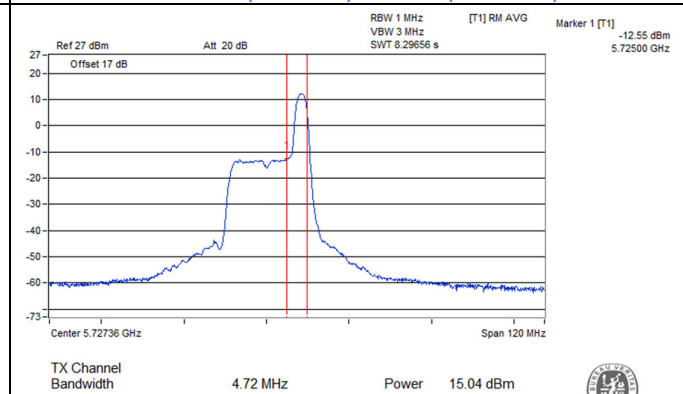
802.11be (EHT160): CH 50 (U-NII-1)



802.11be (EHT160): CH 50 (U-NII-2A)

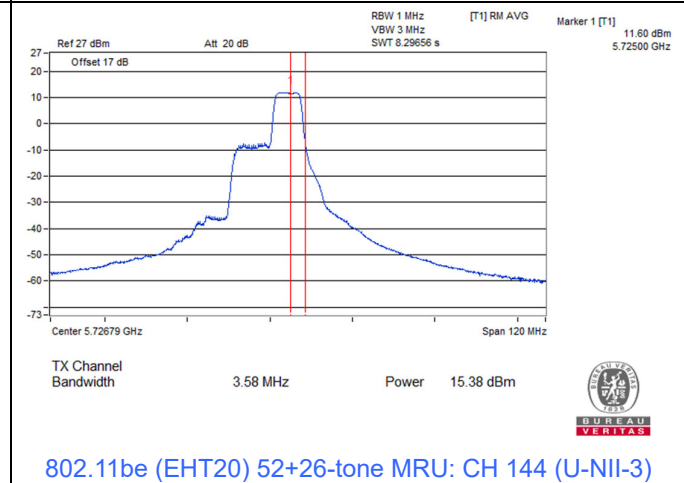
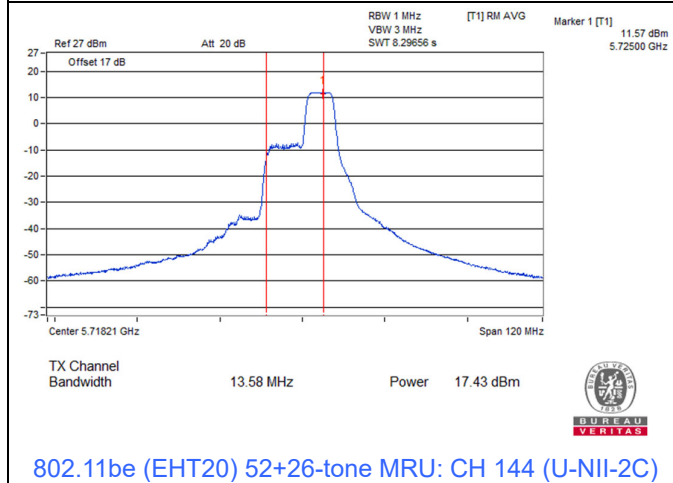
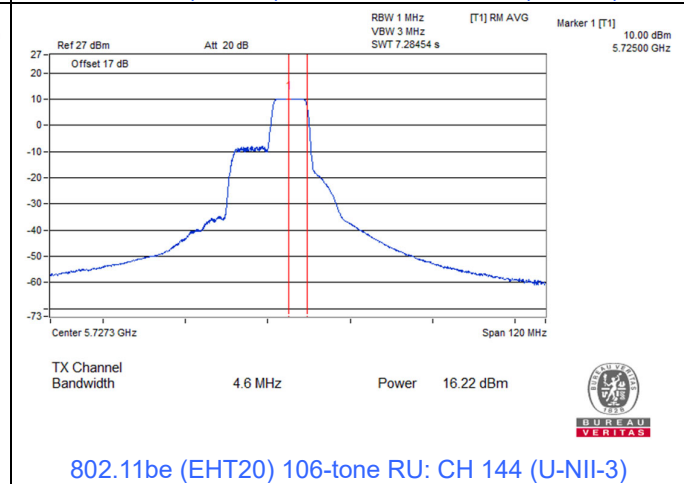
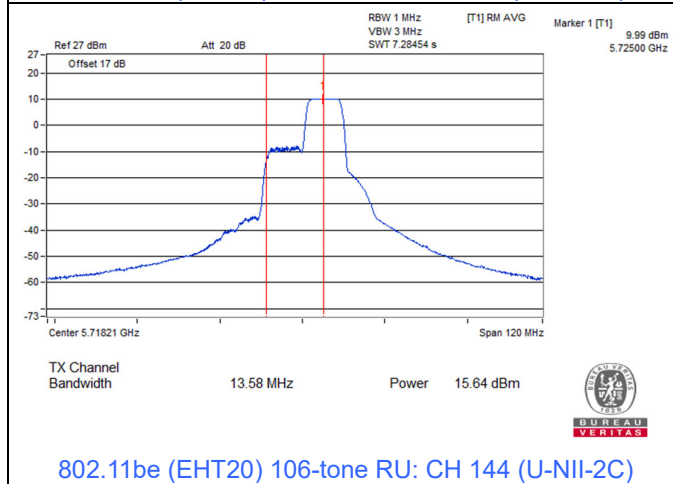
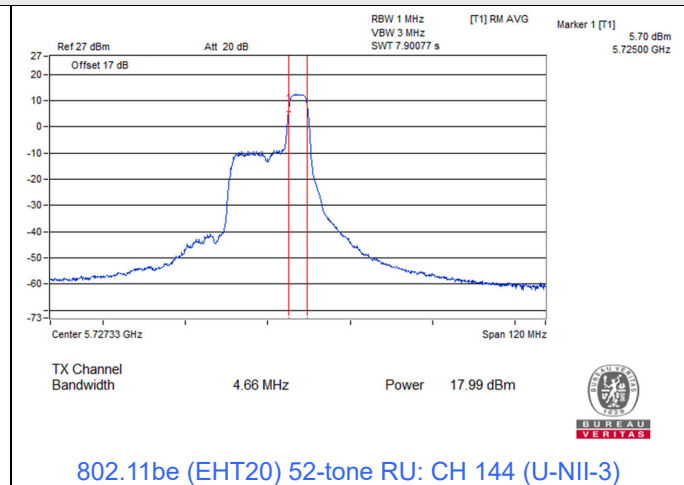
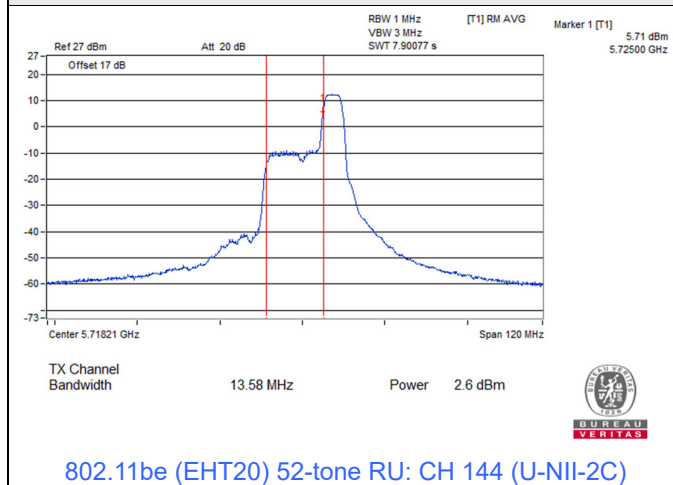


802.11be (EHT20) 26-tone RU: CH 144 (U-NII-2C)

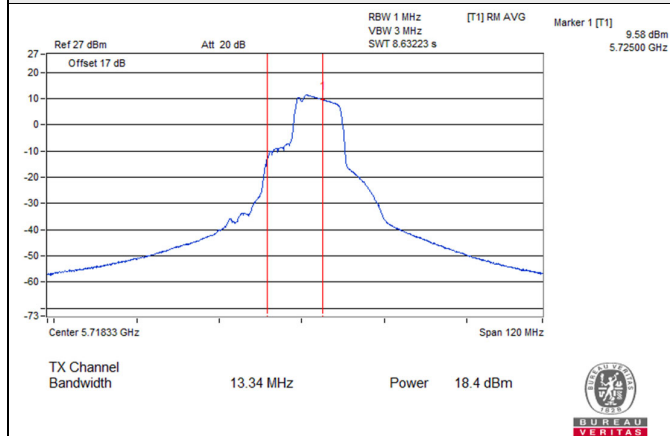


802.11be (EHT20) 26-tone RU: CH 144 (U-NII-3)

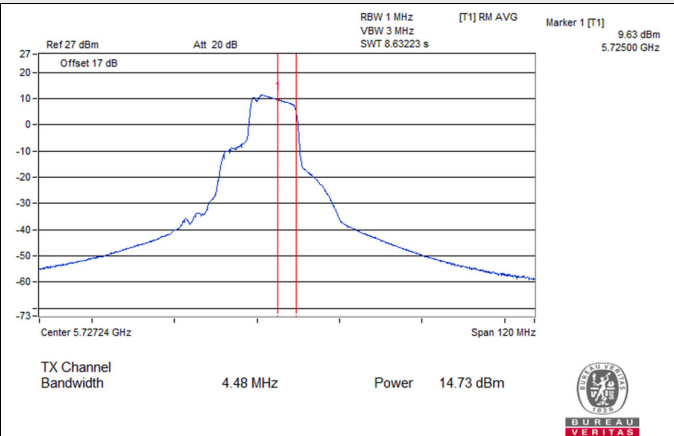
## Spectrum Plot for channel straddling



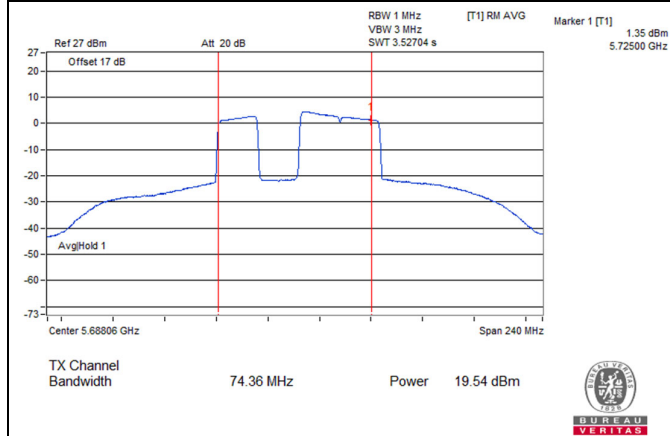
## Spectrum Plot for channel straddling



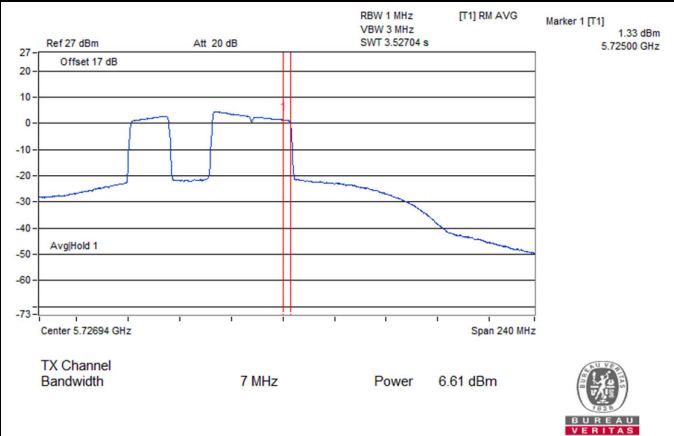
802.11be (EHT20) 106+26-tone MRU: CH 144 (U-NII-2C)



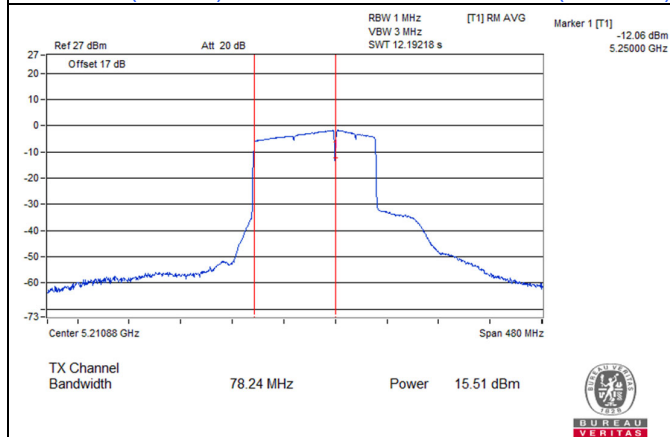
802.11be (EHT20) 106+26-tone MRU: CH 144 (U-NII-3)



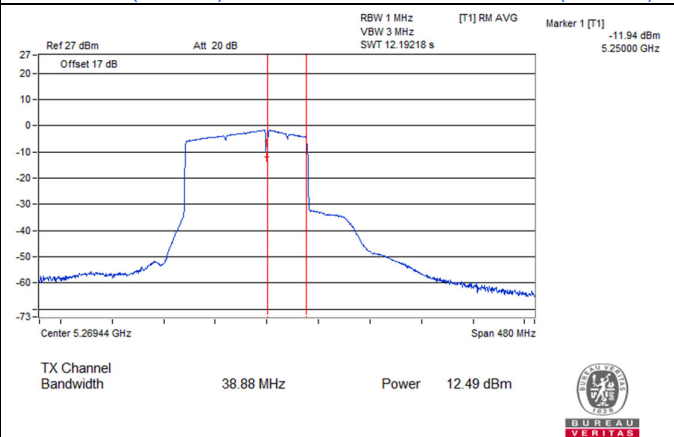
802.11be (EHT80) 484+242-tone MRU: CH 138 (U-NII-2C)



802.11be (EHT80) 484+242-tone MRU: CH 138 (U-NII-3)

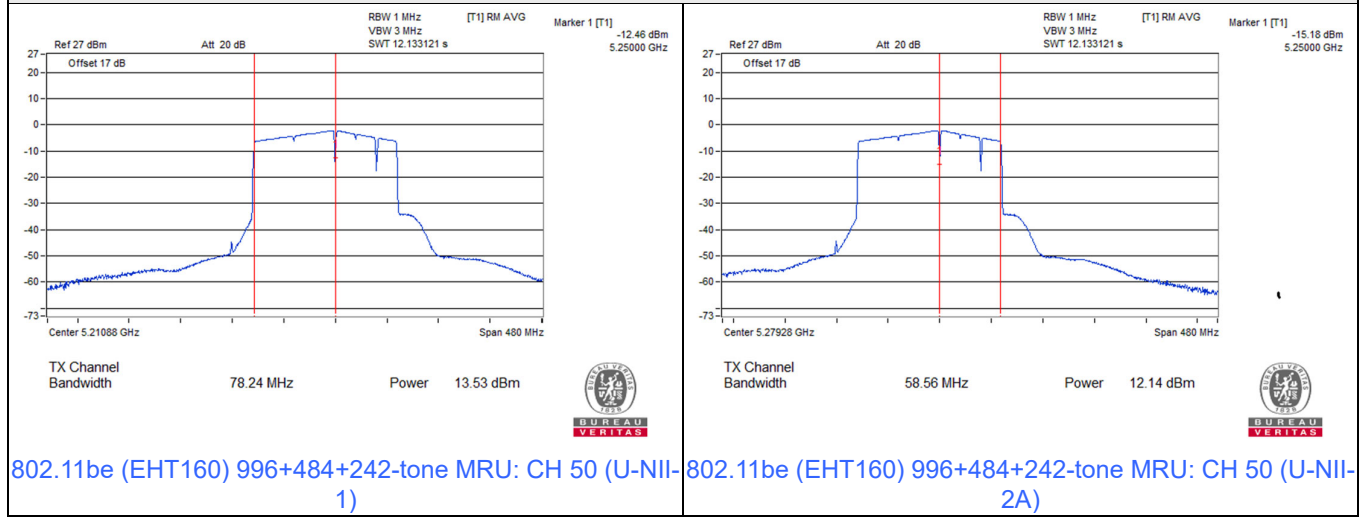


802.11be (EHT160) 996+484-tone MRU: CH 50 (U-NII-1)



802.11be (EHT160) 996+484-tone MRU: CH 50 (U-NII-2A)

# Spectrum Plot for channel straddling



|                           |              |            |           |
|---------------------------|--------------|------------|-----------|
| Environmental Conditions: | 25°C, 60% RH | Tested By: | Henry Hsu |
|---------------------------|--------------|------------|-----------|

## 2Tx

### 802.11a

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 17.92               | 17.69   | 120.693          | 20.82             | 24                | Pass        |
| 40              | 5200              | 17.71               | 17.52   | 115.514          | 20.63             | 24                | Pass        |
| 48              | 5240              | 17.83               | 17.61   | 118.35           | 20.73             | 24                | Pass        |
| 52              | 5260              | 17.81               | 17.63   | 118.338          | 20.73             | 23.57             | Pass        |
| 60              | 5300              | 17.92               | 17.74   | 121.373          | 20.84             | 23.66             | Pass        |
| 64              | 5320              | 17.79               | 17.52   | 116.611          | 20.67             | 23.58             | Pass        |
| 100             | 5500              | 17.93               | 17.62   | 119.897          | 20.79             | 23.57             | Pass        |
| 116             | 5580              | 17.79               | 17.51   | 116.481          | 20.66             | 23.56             | Pass        |
| 140             | 5700              | 17.74               | 17.52   | 115.923          | 20.64             | 23.62             | Pass        |
| *144 (U-NII-2C) | 5720              | 16.86               | 16.67   | 98.317           | 19.93             | 22.51             | Pass        |
| *144 (U-NII-3)  | 5720              | 8.68                | 8.37    | 14.75            | 11.69             | 30                | Pass        |
| 149             | 5745              | 22.45               | 22.24   | 343.287          | 25.36             | 30                | Pass        |
| 157             | 5785              | 22.32               | 22.08   | 332.044          | 25.21             | 30                | Pass        |
| 165             | 5825              | 22.05               | 22.01   | 319.179          | 25.04             | 30                | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

## 802.11ac (VHT20)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 19.50               | 19.37   | 175.622             | 22.45                | 24                   | Pass        |
| 40              | 5200                 | 19.80               | 19.54   | 185.449             | 22.68                | 24                   | Pass        |
| 48              | 5240                 | 19.77               | 19.52   | 184.378             | 22.66                | 24                   | Pass        |
| 52              | 5260                 | 19.66               | 19.50   | 181.595             | 22.59                | 24                   | Pass        |
| 60              | 5300                 | 19.54               | 19.48   | 178.665             | 22.52                | 23.96                | Pass        |
| 64              | 5320                 | 19.66               | 19.45   | 180.575             | 22.57                | 23.95                | Pass        |
| 100             | 5500                 | 19.70               | 19.42   | 180.824             | 22.57                | 23.95                | Pass        |
| 120             | 5600                 | 19.79               | 19.51   | 184.61              | 22.66                | 24                   | Pass        |
| 140             | 5700                 | 19.76               | 19.54   | 184.573             | 22.66                | 23.96                | Pass        |
| *144 (U-NII-2C) | 5720                 | 19.03               | 18.75   | 158.625             | 22.00                | 23.33                | Pass        |
| *144 (U-NII-3)  | 5720                 | 11.10               | 10.84   | 25.606              | 14.08                | 30                   | Pass        |
| 149             | 5745                 | 22.02               | 22.00   | 317.71              | 25.02                | 30                   | Pass        |
| 157             | 5785                 | 22.01               | 21.97   | 316.253             | 25.00                | 30                   | Pass        |
| 165             | 5825                 | 22.20               | 22.02   | 325.18              | 25.12                | 30                   | Pass        |

### Notes:

1. \*: Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT40)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 38              | 5190                 | 18.64               | 18.31   | 140.878             | 21.49                | 24                   | Pass        |
| 46              | 5230                 | 20.98               | 20.70   | 242.804             | 23.85                | 24                   | Pass        |
| 54              | 5270                 | 20.96               | 20.64   | 240.616             | 23.81                | 24                   | Pass        |
| 62              | 5310                 | 18.64               | 17.96   | 135.631             | 21.32                | 24                   | Pass        |
| 102             | 5510                 | 19.01               | 18.95   | 158.139             | 21.99                | 24                   | Pass        |
| 118             | 5590                 | 20.80               | 20.66   | 236.639             | 23.74                | 24                   | Pass        |
| 134             | 5670                 | 20.39               | 20.01   | 209.626             | 23.21                | 24                   | Pass        |
| *142 (U-NII-2C) | 5710                 | 20.07               | 20.13   | 211.024             | 23.24                | 24                   | Pass        |
| *142 (U-NII-3)  | 5710                 | 9.00                | 9.12    | 16.61               | 12.20                | 30                   | Pass        |
| 151             | 5755                 | 21.61               | 21.31   | 280.084             | 24.47                | 30                   | Pass        |
| 159             | 5795                 | 21.08               | 21.30   | 263.129             | 24.20                | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT80)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 42              | 5210                 | 18.30               | 18.21   | 133.83              | 21.27                | 24                   | Pass        |
| 58              | 5290                 | 18.01               | 17.88   | 124.617             | 20.96                | 24                   | Pass        |
| 106             | 5530                 | 18.07               | 17.94   | 126.351             | 21.02                | 24                   | Pass        |
| 122             | 5610                 | 20.07               | 19.90   | 199.349             | 23.00                | 24                   | Pass        |
| *138 (U-NII-2C) | 5690                 | 20.53               | 20.15   | 226.725             | 23.55                | 24                   | Pass        |
| *138 (U-NII-3)  | 5690                 | 5.15                | 4.71    | 6.526               | 8.15                 | 30                   | Pass        |
| 155             | 5775                 | 20.60               | 20.49   | 226.759             | 23.56                | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT160)

| Chan.          | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| *50 (U-NII-1)  | 5250              | 13.65               | 13.60   | 48.61            | 16.87             | 24                | Pass        |
| *50 (U-NII-2A) | 5250              | 13.56               | 13.51   | 47.613           | 16.78             | 24                | Pass        |
| 114            | 5570              | 17.31               | 16.91   | 102.918          | 20.12             | 24                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20)

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 19.60               | 19.43   | 178.901          | 22.53             | 24                | Pass        |
| 40              | 5200              | 19.88               | 19.61   | 188.686          | 22.76             | 24                | Pass        |
| 48              | 5240              | 19.87               | 19.60   | 188.252          | 22.75             | 24                | Pass        |
| 52              | 5260              | 19.74               | 19.52   | 183.725          | 22.64             | 24                | Pass        |
| 60              | 5300              | 19.62               | 19.50   | 180.747          | 22.57             | 23.96             | Pass        |
| 64              | 5320              | 19.73               | 19.48   | 182.688          | 22.62             | 23.95             | Pass        |
| 100             | 5500              | 19.80               | 19.51   | 184.83           | 22.67             | 23.95             | Pass        |
| 120             | 5600              | 19.88               | 19.55   | 187.432          | 22.73             | 24                | Pass        |
| 140             | 5700              | 19.85               | 19.62   | 188.227          | 22.75             | 23.96             | Pass        |
| *144 (U-NII-2C) | 5720              | 19.13               | 18.85   | 162.32           | 22.10             | 23.33             | Pass        |
| *144 (U-NII-3)  | 5720              | 11.20               | 10.94   | 26.202           | 14.18             | 30                | Pass        |
| 149             | 5745              | 22.05               | 22.03   | 319.912          | 25.05             | 30                | Pass        |
| 157             | 5785              | 22.04               | 22.01   | 318.81           | 25.04             | 30                | Pass        |
| 165             | 5825              | 22.26               | 22.04   | 328.223          | 25.16             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE40)

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 38              | 5190              | 18.70               | 18.31   | 141.895          | 21.52             | 24                | Pass        |
| 46              | 5230              | 21.01               | 20.75   | 245.033          | 23.89             | 24                | Pass        |
| 54              | 5270              | 21.02               | 20.69   | 243.693          | 23.87             | 24                | Pass        |
| 62              | 5310              | 18.68               | 18.01   | 137.032          | 21.37             | 24                | Pass        |
| 102             | 5510              | 19.07               | 19.01   | 160.339          | 22.05             | 24                | Pass        |
| 118             | 5590              | 20.88               | 20.72   | 240.494          | 23.81             | 24                | Pass        |
| 134             | 5670              | 20.45               | 20.06   | 212.309          | 23.27             | 24                | Pass        |
| *142 (U-NII-2C) | 5710              | 20.17               | 20.25   | 216.441          | 23.35             | 24                | Pass        |
| *142 (U-NII-3)  | 5710              | 9.02                | 9.18    | 16.765           | 12.24             | 30                | Pass        |
| 151             | 5755              | 21.66               | 21.34   | 282.699          | 24.51             | 30                | Pass        |
| 159             | 5795              | 21.14               | 21.35   | 266.475          | 24.26             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE80)

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 42              | 5210              | 18.38               | 18.25   | 135.7            | 21.33             | 24                | Pass        |
| 58              | 5290              | 18.06               | 17.95   | 126.347          | 21.02             | 24                | Pass        |
| 106             | 5530              | 18.14               | 18.02   | 128.55           | 21.09             | 24                | Pass        |
| 122             | 5610              | 20.16               | 19.97   | 203.064          | 23.08             | 24                | Pass        |
| *138 (U-NII-2C) | 5690              | 20.63               | 20.24   | 231.751          | 23.65             | 24                | Pass        |
| *138 (U-NII-3)  | 5690              | 5.31                | 4.71    | 6.655            | 8.23              | 30                | Pass        |
| 155             | 5775              | 20.70               | 20.55   | 230.991          | 23.64             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE160)

| Chan.          | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| *50 (U-NII-1)  | 5250              | 13.72               | 13.64   | 49.231           | 16.92             | 24                | Pass        |
| *50 (U-NII-2A) | 5250              | 13.61               | 13.50   | 47.836           | 16.80             | 24                | Pass        |
| 114            | 5570              | 17.38               | 16.94   | 104.133          | 20.18             | 24                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20)

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 19.70               | 19.52   | 182.862          | 22.62             | 24                | Pass        |
| 40              | 5200              | 19.98               | 19.70   | 192.866          | 22.85             | 24                | Pass        |
| 48              | 5240              | 19.97               | 19.68   | 192.208          | 22.84             | 24                | Pass        |
| 52              | 5260              | 19.84               | 19.56   | 186.748          | 22.71             | 24                | Pass        |
| 60              | 5300              | 19.71               | 19.54   | 183.49           | 22.64             | 23.96             | Pass        |
| 64              | 5320              | 19.82               | 19.52   | 185.477          | 22.68             | 23.95             | Pass        |
| 100             | 5500              | 19.90               | 19.58   | 188.506          | 22.75             | 23.95             | Pass        |
| 116             | 5580              | 19.98               | 19.62   | 191.163          | 22.81             | 24                | Pass        |
| 140             | 5700              | 19.95               | 19.70   | 192.181          | 22.84             | 23.96             | Pass        |
| *144 (U-NII-2C) | 5720              | 19.23               | 19.03   | 167.595          | 22.24             | 23.33             | Pass        |
| *144 (U-NII-3)  | 5720              | 11.30               | 11.04   | 26.813           | 14.28             | 30                | Pass        |
| 149             | 5745              | 22.11               | 22.08   | 323.991          | 25.11             | 30                | Pass        |
| 157             | 5785              | 22.09               | 22.03   | 321.396          | 25.07             | 30                | Pass        |
| 165             | 5825              | 22.35               | 22.07   | 332.855          | 25.22             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT40)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 38              | 5190                 | 18.79               | 18.37   | 144.39              | 21.60                | 24                   | Pass        |
| 46              | 5230                 | 21.10               | 20.81   | 249.329             | 23.97                | 24                   | Pass        |
| 54              | 5270                 | 21.15               | 20.72   | 248.349             | 23.95                | 24                   | Pass        |
| 62              | 5310                 | 18.74               | 18.55   | 146.431             | 21.66                | 24                   | Pass        |
| 102             | 5510                 | 19.16               | 19.06   | 162.952             | 22.12                | 24                   | Pass        |
| 118             | 5590                 | 20.93               | 20.79   | 243.83              | 23.87                | 24                   | Pass        |
| 134             | 5670                 | 20.55               | 20.16   | 217.254             | 23.37                | 24                   | Pass        |
| *142 (U-NII-2C) | 5710                 | 20.27               | 20.35   | 221.483             | 23.45                | 24                   | Pass        |
| *142 (U-NII-3)  | 5710                 | 9.10                | 9.28    | 17.117              | 12.33                | 30                   | Pass        |
| 151             | 5755                 | 21.73               | 21.44   | 288.252             | 24.60                | 30                   | Pass        |
| 159             | 5795                 | 21.22               | 21.43   | 271.429             | 24.34                | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT80)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 42              | 5210                 | 18.45               | 18.32   | 137.905             | 21.40                | 24                   | Pass        |
| 58              | 5290                 | 18.12               | 18.01   | 128.105             | 21.08                | 24                   | Pass        |
| 106             | 5530                 | 18.22               | 18.11   | 131.089             | 21.18                | 24                   | Pass        |
| 122             | 5610                 | 20.24               | 20.01   | 205.912             | 23.14                | 24                   | Pass        |
| *138 (U-NII-2C) | 5690                 | 20.73               | 20.34   | 237.149             | 23.75                | 24                   | Pass        |
| *138 (U-NII-3)  | 5690                 | 5.38                | 4.79    | 6.77                | 8.31                 | 30                   | Pass        |
| 155             | 5775                 | 20.80               | 20.64   | 236.104             | 23.73                | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT160)

| Chan.          | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| *50 (U-NII-1)  | 5250                 | 13.82               | 13.74   | 50.378              | 17.02                | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 13.71               | 13.60   | 48.95               | 16.90                | 24                   | Pass        |
| 114            | 5570                 | 17.47               | 16.94   | 105.278             | 20.22                | 24                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) 26-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 12.75               | 12.20   | 35.432              | 15.49                | 24                   | Pass        |
| 64              | 5320                 | 12.71               | 12.13   | 34.994              | 15.44                | 23.9                 | Pass        |
| 100             | 5500                 | 12.65               | 12.08   | 34.551              | 15.38                | 23.92                | Pass        |
| 140             | 5700                 | 12.55               | 12.05   | 34.021              | 15.32                | 23.94                | Pass        |
| *144 (U-NII-2C) | 5720                 | -2.98               | -3.89   | 0.9718              | -0.12                | 22.5                 | Pass        |
| *144 (U-NII-3)  | 5720                 | 12.48               | 11.70   | 34.628              | 15.39                | 30                   | Pass        |
| 149             | 5745                 | 22.25               | 22.06   | 328.575             | 25.17                | 30                   | Pass        |
| 165             | 5825                 | 22.11               | 22.01   | 321.41              | 25.07                | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) 52-tone RU

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 15.53               | 15.22   | 68.993           | 18.39             | 24                | Pass        |
| 64              | 5320              | 15.47               | 15.15   | 67.971           | 18.32             | 23.92             | Pass        |
| 100             | 5500              | 15.35               | 15.20   | 67.39            | 18.29             | 24                | Pass        |
| 140             | 5700              | 15.55               | 15.05   | 67.881           | 18.32             | 24                | Pass        |
| *144 (U-NII-2C) | 5720              | 1.66                | 1.02    | 2.911            | 4.64              | 22.5              | Pass        |
| *144 (U-NII-3)  | 5720              | 15.02               | 14.40   | 63.241           | 18.01             | 30                | Pass        |
| 149             | 5745              | 22.18               | 22.02   | 324.417          | 25.11             | 30                | Pass        |
| 165             | 5825              | 22.21               | 22.05   | 326.666          | 25.14             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) 106-tone RU

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 18.26               | 18.18   | 132.754          | 21.23             | 24                | Pass        |
| 64              | 5320              | 18.36               | 18.01   | 131.79           | 21.20             | 24                | Pass        |
| 100             | 5500              | 18.35               | 18.03   | 131.924          | 21.20             | 24                | Pass        |
| 140             | 5700              | 18.20               | 18.07   | 130.19           | 21.15             | 24                | Pass        |
| *144 (U-NII-2C) | 5720              | 14.66               | 14.33   | 62.345           | 17.95             | 22.54             | Pass        |
| *144 (U-NII-3)  | 5720              | 15.02               | 14.62   | 67.213           | 18.27             | 30                | Pass        |
| 149             | 5745              | 22.30               | 22.05   | 330.149          | 25.19             | 30                | Pass        |
| 165             | 5825              | 22.28               | 22.10   | 331.225          | 25.20             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 26-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 12.84               | 12.26   | 36.058              | 15.57                | 24                   | Pass        |
| 64              | 5320                 | 12.84               | 12.15   | 35.637              | 15.52                | 23.9                 | Pass        |
| 100             | 5500                 | 12.77               | 12.13   | 35.254              | 15.47                | 23.92                | Pass        |
| 140             | 5700                 | 12.63               | 12.08   | 34.467              | 15.37                | 23.94                | Pass        |
| *144 (U-NII-2C) | 5720                 | -2.91               | -3.84   | 0.9855              | -0.06                | 22.5                 | Pass        |
| *144 (U-NII-3)  | 5720                 | 12.55               | 11.77   | 35.19               | 15.46                | 30                   | Pass        |
| 149             | 5745                 | 22.32               | 22.08   | 332.044             | 25.21                | 30                   | Pass        |
| 165             | 5825                 | 22.15               | 22.04   | 324.015             | 25.11                | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 52-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 15.63               | 15.32   | 70.6                | 18.49                | 24                   | Pass        |
| 64              | 5320                 | 15.57               | 15.20   | 69.171              | 18.40                | 23.92                | Pass        |
| 100             | 5500                 | 15.49               | 15.26   | 68.973              | 18.39                | 24                   | Pass        |
| 140             | 5700                 | 15.65               | 15.09   | 69.013              | 18.39                | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 1.72                | 1.07    | 2.949               | 4.70                 | 22.5                 | Pass        |
| *144 (U-NII-3)  | 5720                 | 15.10               | 14.45   | 64.211              | 18.08                | 30                   | Pass        |
| 149             | 5745                 | 22.24               | 22.05   | 327.819             | 25.16                | 30                   | Pass        |
| 165             | 5825                 | 22.27               | 22.12   | 331.585             | 25.21                | 30                   | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 106-tone RU

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 18.34               | 18.23   | 134.761          | 21.30             | 24                | Pass        |
| 64              | 5320              | 18.46               | 18.03   | 133.679          | 21.26             | 24                | Pass        |
| 100             | 5500              | 18.45               | 18.08   | 134.253          | 21.28             | 24                | Pass        |
| 140             | 5700              | 18.28               | 18.14   | 132.461          | 21.22             | 24                | Pass        |
| *144 (U-NII-2C) | 5720              | 14.76               | 14.43   | 63.798           | 18.05             | 22.54             | Pass        |
| *144 (U-NII-3)  | 5720              | 15.13               | 14.77   | 69.241           | 18.40             | 30                | Pass        |
| 149             | 5745              | 22.40               | 22.09   | 335.588          | 25.26             | 30                | Pass        |
| 165             | 5825              | 22.34               | 22.14   | 335.077          | 25.25             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 52+26-tone MRU

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 17.35               | 16.94   | 103.756          | 20.16             | 24                | Pass        |
| 64              | 5320              | 17.41               | 16.68   | 101.639          | 20.07             | 23.9              | Pass        |
| 100             | 5500              | 17.01               | 16.59   | 95.838           | 19.82             | 23.72             | Pass        |
| 140             | 5700              | 17.12               | 16.60   | 97.232           | 19.88             | 23.91             | Pass        |
| *144 (U-NII-2C) | 5720              | 14.78               | 14.20   | 60.379           | 17.81             | 22.57             | Pass        |
| *144 (U-NII-3)  | 5720              | 12.56               | 11.99   | 36.254           | 15.59             | 30                | Pass        |
| 149             | 5745              | 22.48               | 22.08   | 338.447          | 25.29             | 30                | Pass        |
| 165             | 5825              | 22.38               | 22.04   | 332.937          | 25.22             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 106+26-tone MRU

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 18.23               | 18.04   | 130.207          | 21.15             | 24                | Pass        |
| 64              | 5320              | 18.56               | 18.08   | 136.048          | 21.34             | 23.74             | Pass        |
| 100             | 5500              | 18.63               | 18.20   | 139.015          | 21.43             | 23.78             | Pass        |
| 140             | 5700              | 18.26               | 18.12   | 131.852          | 21.20             | 23.78             | Pass        |
| *144 (U-NII-2C) | 5720              | 16.35               | 16.10   | 89.324           | 19.51             | 22.49             | Pass        |
| *144 (U-NII-3)  | 5720              | 12.49               | 12.26   | 36.808           | 15.66             | 30                | Pass        |
| 149             | 5745              | 22.41               | 22.06   | 334.875          | 25.25             | 30                | Pass        |
| 165             | 5825              | 22.38               | 22.05   | 333.306          | 25.23             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT80) 484+242-tone MRU

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 42              | 5210              | 17.66               | 17.23   | 111.189          | 20.46             | 24                | Pass        |
| 58              | 5290              | 16.91               | 16.26   | 91.358           | 19.61             | 24                | Pass        |
| 106             | 5530              | 17.05               | 16.65   | 96.937           | 19.86             | 24                | Pass        |
| 122             | 5610              | 19.55               | 19.02   | 169.957          | 22.30             | 24                | Pass        |
| *138 (U-NII-2C) | 5690              | 19.31               | 18.22   | 164.033          | 22.15             | 24                | Pass        |
| *138 (U-NII-3)  | 5690              | 6.72                | 5.72    | 9.118            | 9.60              | 30                | Pass        |
| 155             | 5775              | 18.86               | 18.53   | 148.198          | 21.71             | 30                | Pass        |

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT160) 996+484-tone MRU

| Chan.          | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| *50 (U-NII-1)  | 5250                 | 14.28               | 13.99   | 56.433              | 17.52                | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 12.76               | 12.33   | 39.158              | 15.93                | 24                   | Pass        |
| 114            | 5570                 | 16.47               | 16.05   | 84.633              | 19.28                | 24                   | Pass        |

Notes:

1. \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

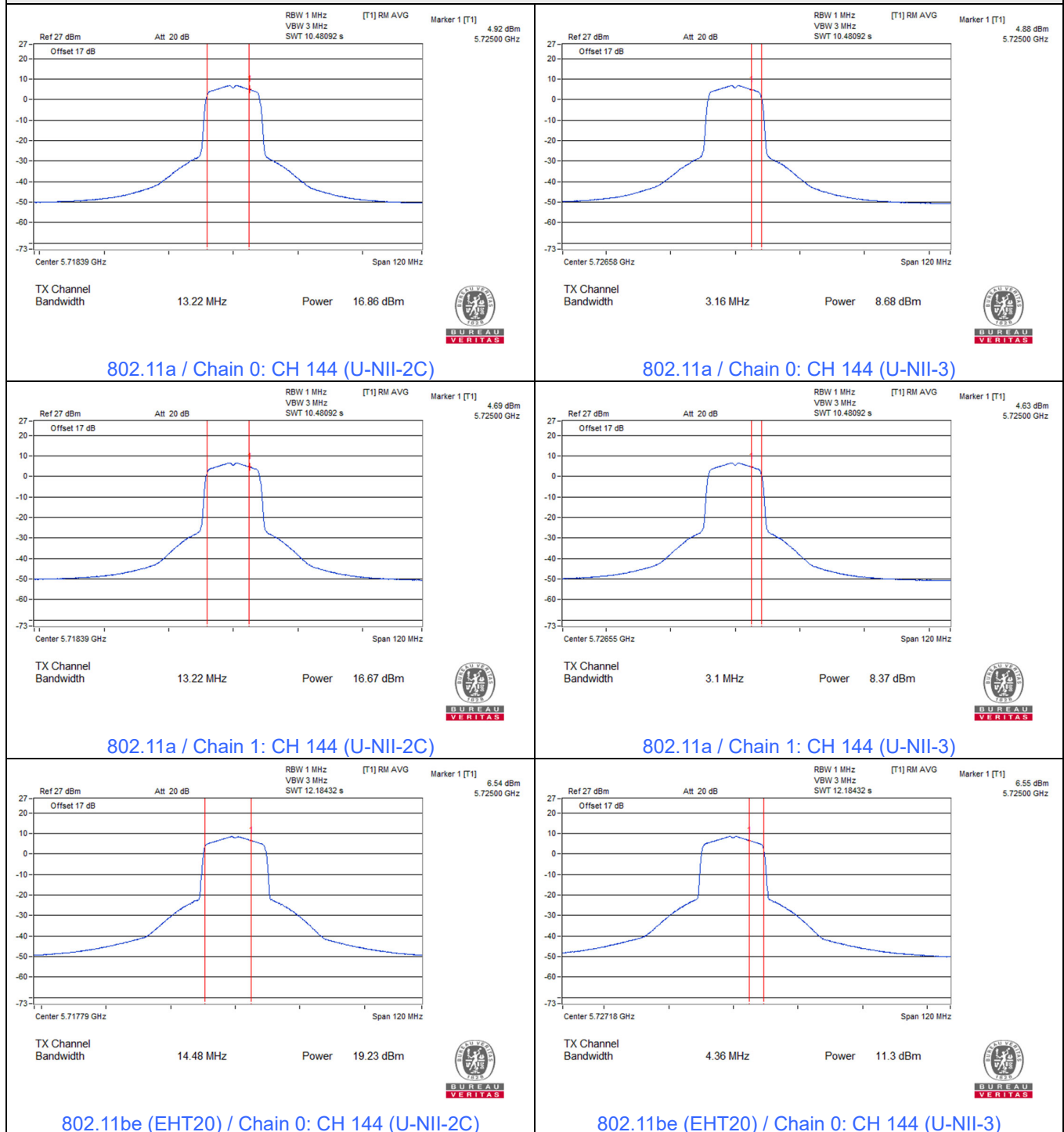
### 802.11be (EHT160) 996+484+242-tone MRU

| Chan.          | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| *50 (U-NII-1)  | 5250                 | 10.88               | 10.54   | 25.92               | 14.14                | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 10.57               | 10.01   | 23.561              | 13.72                | 24                   | Pass        |
| 114            | 5570                 | 16.36               | 16.05   | 83.523              | 19.22                | 24                   | Pass        |

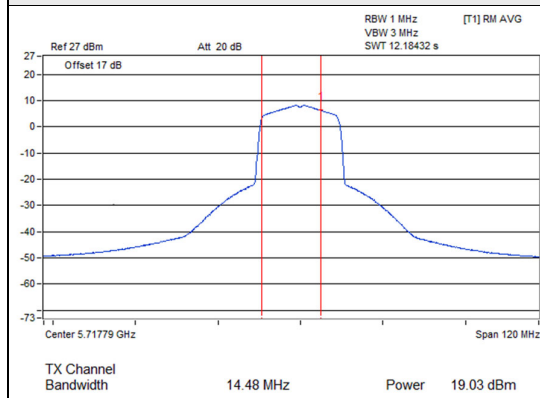
Notes:

1. \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the directional gain is 4.92 dBi  $\leq$  6 dBi, so the output power limit shall not be reduced.

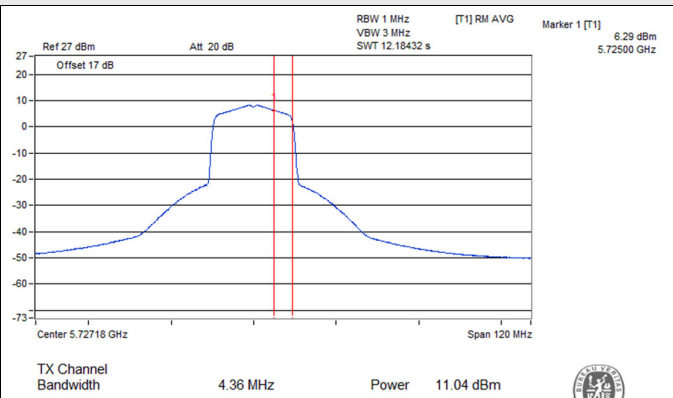
## Spectrum Plot for channel straddling



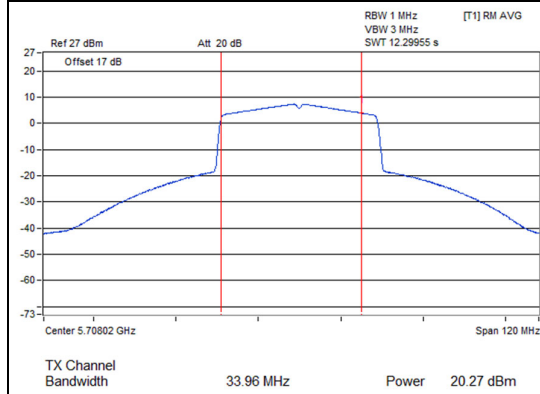
## Spectrum Plot for channel straddling



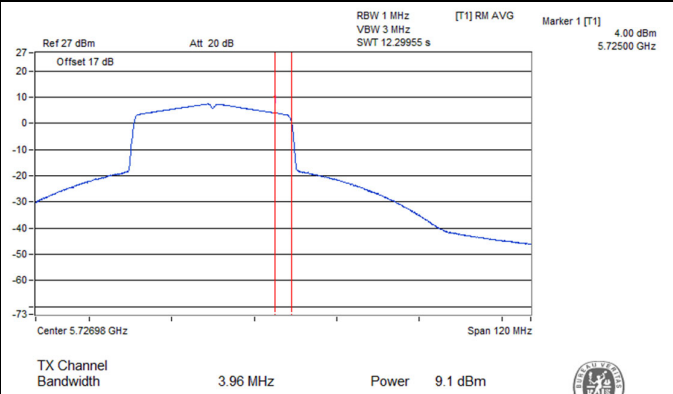
802.11be (EHT20) / Chain 1: CH 144 (U-NII-2C)



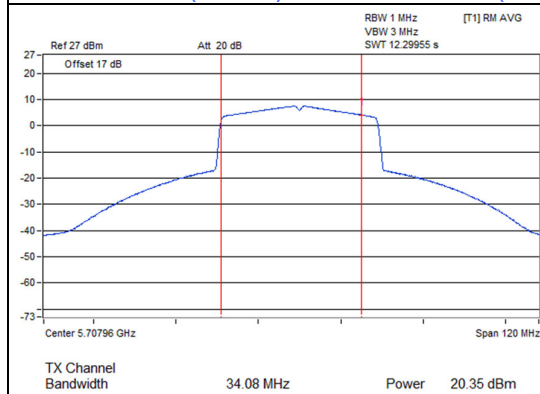
802.11be (EHT20) / Chain 1: CH 144 (U-NII-3)



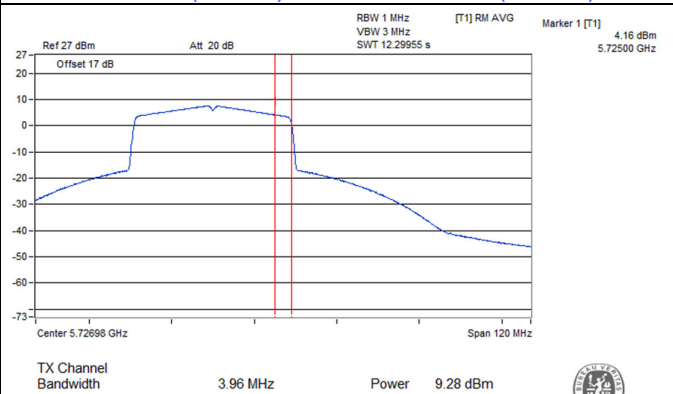
802.11be (EHT40) / Chain 0: CH 142 (U-NII-2C)



802.11be (EHT40) / Chain 0: CH 142 (U-NII-3)

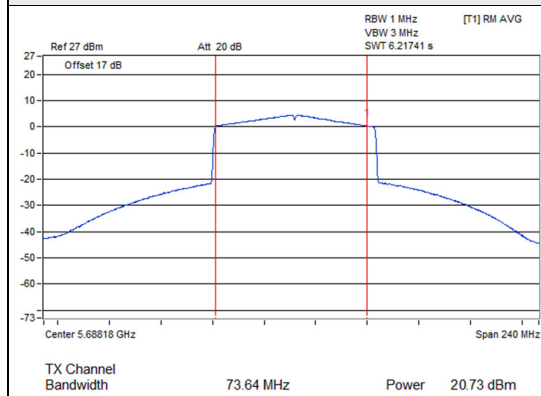


802.11be (EHT40) / Chain 1: CH 142 (U-NII-2C)

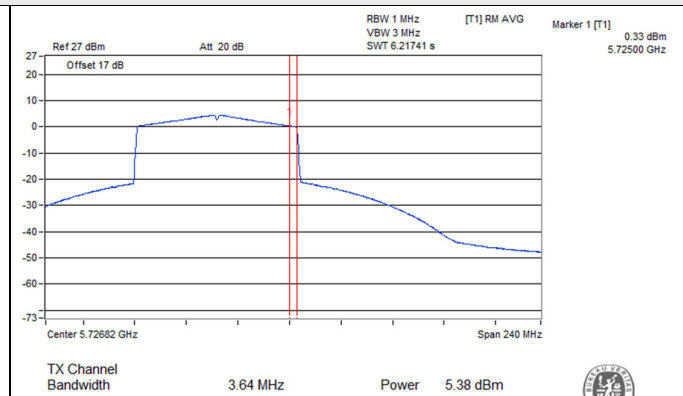


802.11be (EHT40) / Chain 1: CH 142 (U-NII-3)

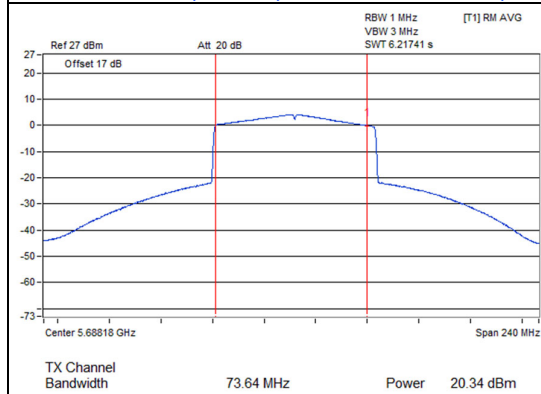
## Spectrum Plot for channel straddling



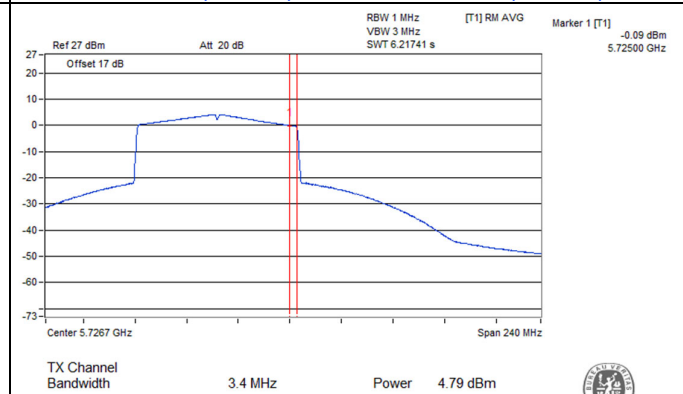
802.11be (EHT80) / Chain 0: CH 138 (U-NII-2C)



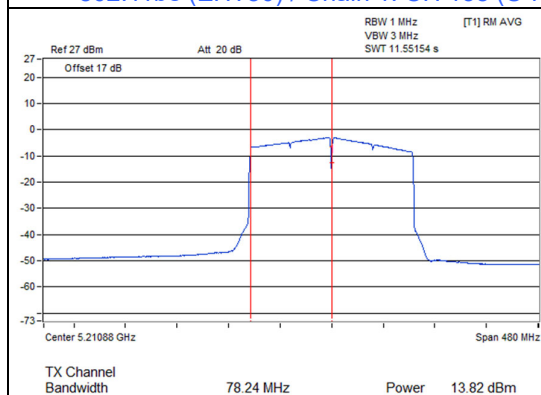
802.11be (EHT80) / Chain 0: CH 138 (U-NII-3)



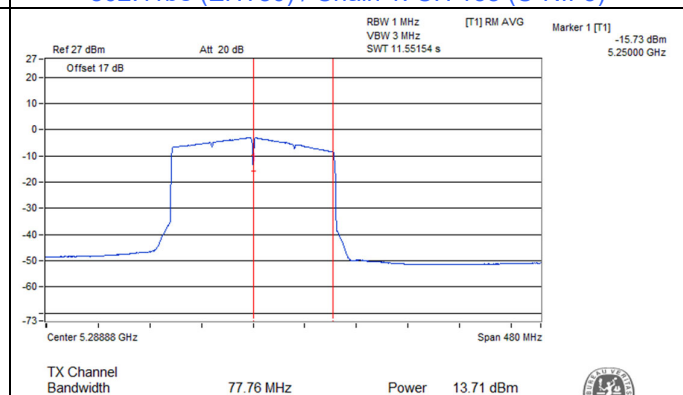
802.11be (EHT80) / Chain 1: CH 138 (U-NII-2C)



802.11be (EHT80) / Chain 1: CH 138 (U-NII-3)

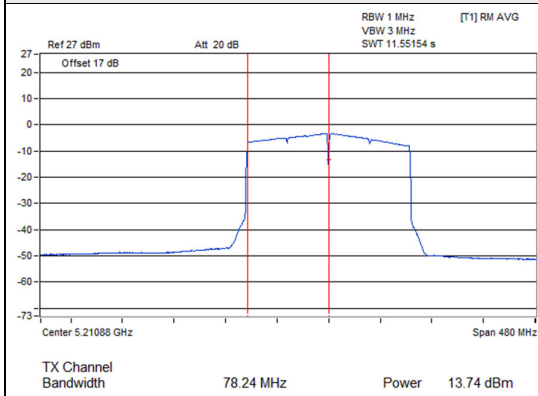


802.11be (EHT160) / Chain 0: CH 50 (U-NII-1)

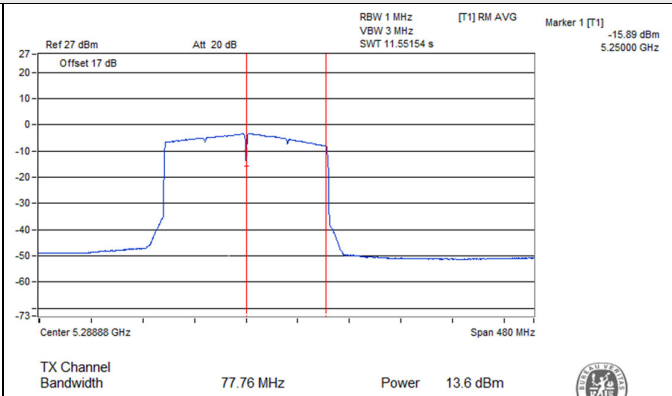


802.11be (EHT160) / Chain 0: CH 50 (U-NII-2A)

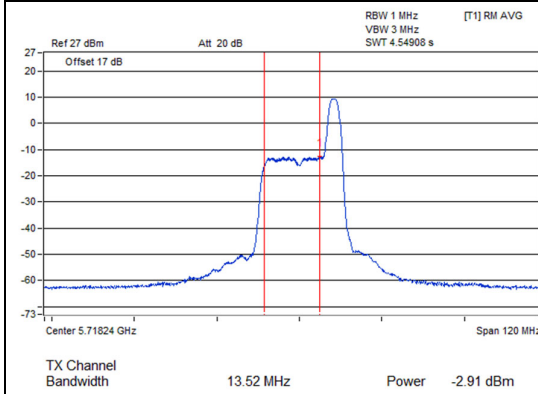
## Spectrum Plot for channel straddling



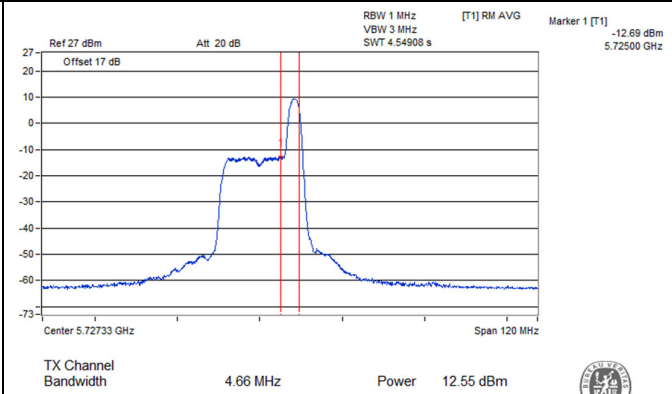
802.11be (EHT160) / Chain 1: CH 50 (U-NII-1)



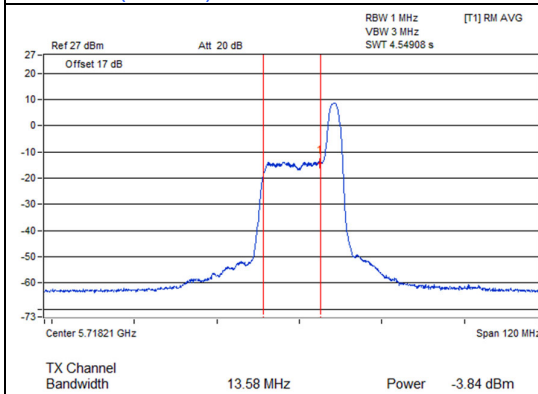
802.11be (EHT160) / Chain 1: CH 50 (U-NII-2A)



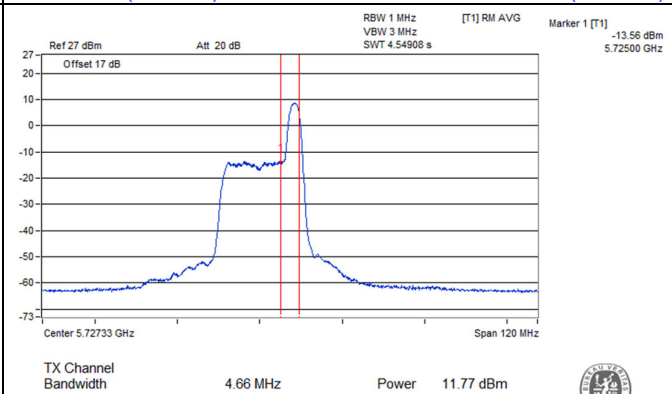
802.11be (EHT20) 26-tone RU / Chain 0: CH 144 (U-NII-2C)



802.11be (EHT20) 26-tone RU / Chain 0: CH 144 (U-NII-3)



802.11be (EHT20) 26-tone RU / Chain 1: CH 144 (U-NII-2C)



802.11be (EHT20) 26-tone RU / Chain 1: CH 144 (U-NII-3)