

## RF MEASUREMENT REPORT

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**FCC ID** : 2BCGWBE65V2  
**Applicant** : TP-LINK CORPORATION PTE. LTD.  
**Application Type** : Certification  
**Product** : BE11000 Whole Home Mesh Wi-Fi 7 System  
**Model No.** : Deco BE65, Deco BE63, Deco BE11000, HB610,  
Hexagon PB60, Deco BE65 Pro  
**Brand Name** : tp-link  
**FCC Classification** : 15E 6GHz Low Power Indoor Access Point (6ID)  
15E 6GHz Subordinate Indoor Device (6PP)  
**FCC Rule Part(s)** : Part 15 Subpart E (Section 15.407)  
**Received Date** : November 13, 2023  
**Test Date** : November 17, 2023 ~ January 4, 2024

**Tested By** : Owen Tsai

( Owen Tsai )

**Reviewed By** : Paddy Chen

( Paddy Chen )

**Approved By** : Chenz Ker

( Chenz Ker )



The test results relate only to the samples tested.

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

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

### Revision History

| Report No.    | Version | Description          | Issue Date | Note    |
|---------------|---------|----------------------|------------|---------|
| 2311TW0113-U5 | 1.0     | Original Report      | 2024-01-18 | Invalid |
| 2311TW0113-U5 | 2.0     | Add a new model name | 2024-01-26 | Valid   |

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## General Information

|                                 |  |
|---------------------------------|--|
| <b>Applicant</b>                | TP-LINK CORPORATION PTE. LTD.  |
| <b>Applicant Address</b>        | 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987              |
| <b>Manufacturer</b>             | TP-LINK CORPORATION PTE. LTD.  |
| <b>Manufacturer Address</b>     | 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987              |
| <b>Test Site</b>                | MRT Technology (Taiwan) Co., Ltd   |
| <b>Test Site Address</b>        | No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C) |
| <b>MRT FCC Registration No.</b> | 291082   |
| <b>FCC Rule Part(s)</b>         | Part 15.407  |

## Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

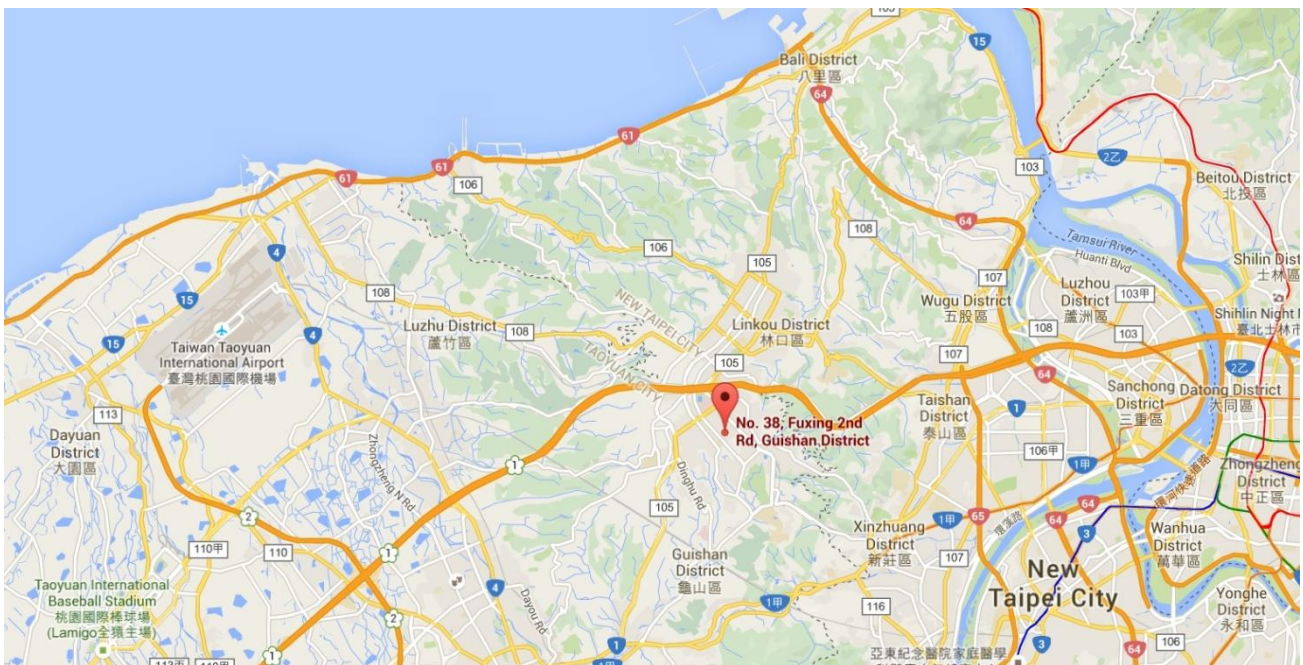
## 1. INTRODUCTION

### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



## 2. Product Information

### 2.1. Equipment Description

|                         |  |
|-------------------------|--|
| Product Name            | BE11000 Whole Home Mesh Wi-Fi 7 System   |
| Model No.               | Deco BE65, Deco BE63, Deco BE11000, HB610, Hexagon PB60, Deco BE65 Pro   |
| Brand Name              | tp-link  |
| Wi-Fi Specification     | 802.11a/b/g/n/ac/ax/be   |
| EUT Identification No.: | #1-1 (Conducted)<br>#1-2 (Radiated)  |
| Accessories             |  |
| Power Adapter           | BRAND: tp-link<br>MODEL: T120250-2B4<br>INPUT: 100 - 240V ~ 50/60Hz 0.8A.<br>OUTPUT: DC 12.0V 2.5A<br>Cable Out: Non-shielding, 1.5m |

Note 1: Models Difference:

- a) The Deco BE63 and Deco BE11000 are exactly the same as the Deco BE65 except for the model.
- b) The HB610 is exactly the same as the Deco BE65 except for the model, the silkscreen on enclosure.
- c) Hexagon PB60 remove the USB port and related circuits based on HB610. Other software and hardware designs are consistent with HB610.
- d) The Deco BE65 Pro has the different USB port, PHY/Switch solutions and the power for FEM from the Deco BE65, but the RF circuit (including the schematic, layout, antenna, antenna position and RF parameters) is exactly the same as the Deco BE65.

Note 2: Some validation tests are evaluated in the EMC report as per the differences as above, only Deco BE65 was evaluated in this report.



## 2.2. Radio Specification

|                    |   |
|--------------------|---|
| Frequency Range    | For 802.11ax-HE20/be-EHT20: 6115 ~ 7095MHz<br>For 802.11ax-HE40/be-EHT40: 6125 ~ 7085MHz<br>For 802.11ax-HE80/be-EHT80: 6145 ~ 7025MHz<br>For 802.11ax-HE160/be-EHT160: 6185 ~ 6985MHz<br>For 802.11be-EHT320: 6265 ~ 6905MHz |
| Type of Modulation | 802.11ax/be: OFDMA  |
| Data Rate          | 802.11ax: up to 2402Mbps<br>802.11be: up to 5764Mbps  |

Note: For other features of this EUT, test report will be issued separately.

## 2.3. Working Frequencies

802.11ax-HE20/be-EHT20

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 33      | 6115 MHz  | 37      | 6135 MHz  | 41      | 6155 MHz  |
| 45      | 6175 MHz  | 49      | 6195 MHz  | 53      | 6215 MHz  |
| 57      | 6235 MHz  | 61      | 6255 MHz  | 65      | 6275 MHz  |
| 69      | 6295 MHz  | 73      | 6315 MHz  | 77      | 6335 MHz  |
| 81      | 6355 MHz  | 85      | 6375 MHz  | 89      | 6395 MHz  |
| 93      | 6415 MHz  | 97      | 6435 MHz  | 101     | 6455 MHz  |
| 105     | 6475 MHz  | 109     | 5495 MHz  | 113     | 6515 MHz  |
| 117     | 6535 MHz  | 121     | 6555 MHz  | 125     | 6575 MHz  |
| 129     | 6595 MHz  | 133     | 6615 MHz  | 137     | 6635 MHz  |
| 141     | 6655 MHz  | 145     | 6675 MHz  | 149     | 6695 MHz  |
| 153     | 6715 MHz  | 157     | 6735 MHz  | 161     | 6755 MHz  |
| 165     | 6775 MHz  | 169     | 6795 MHz  | 173     | 6815 MHz  |
| 177     | 6835 MHz  | 181     | 6855 MHz  | 185     | 6875 MHz  |
| 189     | 6895 MHz  | 193     | 6915 MHz  | 197     | 6935 MHz  |
| 201     | 6955 MHz  | 205     | 6975 MHz  | 209     | 6995 MHz  |
| 213     | 7015 MHz  | 217     | 7035 MHz  | 221     | 7055 MHz  |
| 225     | 7075 MHz  | 229     | 7095 MHz  | --      | --        |

## 802.11ax-HE40/be-EHT40

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

## 802.11ax-HE80/be-EHT80

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

## 802.11ax-HE160/be-EHT160

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

## 802.11be-EHT320

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 63      | 6265 MHz  | 95      | 6425 MHz  | 127     | 6585 MHz  |
| 159     | 6745 MHz  | 191     | 6905 MHz  | --      | --        |

## 2.4. Antenna Details

| Antenna Type | Frequency Band (MHz) | T <sub>x</sub> Paths | Number of spatial streams | Antenna Gain (dBi) |       | Beamforming Directional Gain (dBi) | CDD Directional Gain (dBi) |         |
|--------------|----------------------|----------------------|---------------------------|--------------------|-------|------------------------------------|----------------------------|---------|
|              |                      |                      |                           | Ant 0              | Ant 1 |                                    | For Power                  | For PSD |
| Dipole       | 2400 ~ 2483.5        | 2                    | 1                         | 1.98               | 1.85  | 4.37                               | 1.98                       | 4.37    |
| Dipole       | 5150 ~ 5350          | 2                    | 1                         | 3.00               | 3.00  | 5.51                               | 3.00                       | 5.51    |
|              | 5470 ~ 5850          | 2                    | 1                         | 3.00               | 3.00  | 5.78                               | 3.00                       | 5.78    |
| Franklin     | 5925 ~ 6425          | 2                    | 1                         | 3.00               | 3.00  | 5.45                               | 3.00                       | 5.45    |
|              |                      |                      | 2                         | 3.00               | 3.00  | --                                 | 3.00                       | 3.00    |
|              | 6425 ~ 7125          | 2                    | 1                         | 3.00               | 3.00  | 5.51                               | 3.00                       | 5.51    |
|              |                      |                      | 2                         | 3.00               | 3.00  | --                                 | 3.00                       | 3.00    |

- The device supports CDD Mode and Beamforming mode, details refer to the table as below.
- CDD signals are correlated, the directional gain as follows,  
 When  $N_{SS}=1$ , for power measurements: Array Gain = 0 dB for  $N_{ANT} \leq 4$ , the directional gain = max antenna gain + array gain  
 For power spectral density (PSD) measurements: the max directional gain (each angle) =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$   
 When  $N_{SS}=4$ , the Directional Gain =  $G_{ANT MAX} + 10 \log(N_{ANT}/N_{SS})$  dBi
- Beamforming signals are correlated, the directional gain as follows,  
 the max directional gain (each angle) =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
- The information as above is from the antenna report.

| Test Mode               | T <sub>x</sub> Paths | CDD Mode | Beamforming Mode |
|-------------------------|----------------------|----------|------------------|
| 802.11b/g (DTS)         | 2                    | √        | X                |
| 802.11nax/be (DTS)      | 2                    | √        | √                |
| 802.11a (NII)           | 2                    | √        | X                |
| 802.11n/ac/ax/be (NII)  | 2                    | √        | √                |
| 802.11ax/be (6ID & 6PP) | 2                    | √        | √                |

## 2.5. Test Mode

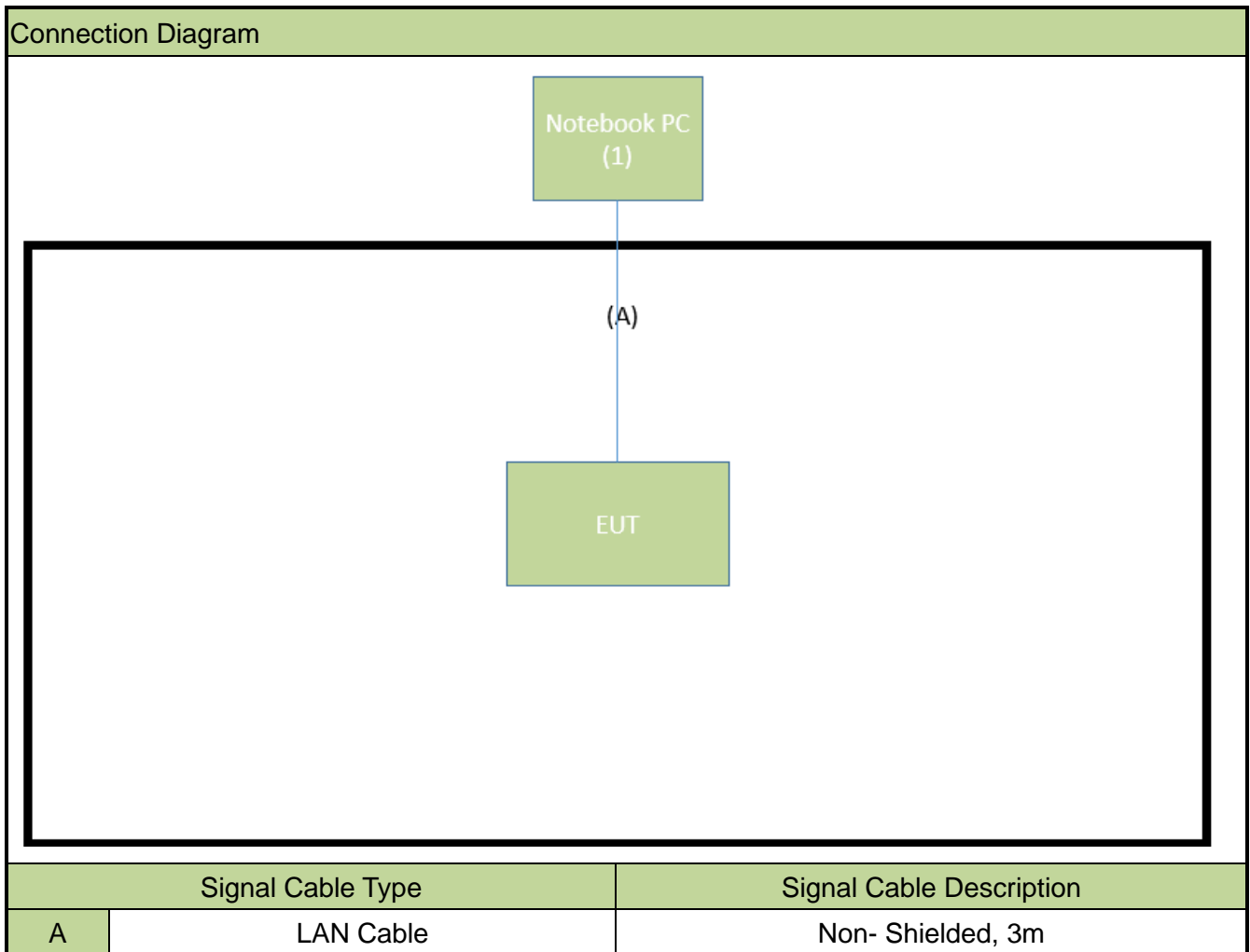
| CDD Mode  |
|---|
| Mode 1: Transmit by 802.11ax-HE20_Nss=1 (MCS0) (CDD mode)   |
| Mode 2: Transmit by 802.11ax-HE40_Nss=1 (MCS0) (CDD mode)   |
| Mode 3: Transmit by 802.11ax-HE80_Nss=1 (MCS0) (CDD mode)   |
| Mode 4: Transmit by 802.11ax-HE160_Nss=1 (MCS0) (CDD mode)  |
| Mode 5: Transmit by 802.11be-EHT20_Nss=1 (MCS0) (CDD mode)  |
| Mode 6: Transmit by 802.11be-EHT40_Nss=1 (MCS0) (CDD mode)  |
| Mode 7: Transmit by 802.11be-EHT80_Nss=1 (MCS0) (CDD mode)  |
| Mode 8: Transmit by 802.11be-EHT160_Nss=1 (MCS0) (CDD mode)   |
| Mode 9: Transmit by 802.11be-EHT320_Nss=1 (MCS0) (CDD mode)   |
| Mode 10: Transmit by 802.11ax-HE20_Nss=2 (MCS0) (CDD mode)  |
| Mode 11: Transmit by 802.11ax-HE40_Nss=2 (MCS0) (CDD mode)  |
| Mode 12: Transmit by 802.11ax-HE80_Nss=2 (MCS0) (CDD mode)  |
| Mode 13: Transmit by 802.11ax-HE160_Nss=2 (MCS0) (CDD mode)   |
| Mode 14: Transmit by 802.11be-EHT20_Nss=2 (MCS0) (CDD mode)   |
| Mode 15: Transmit by 802.11be-EHT40_Nss=2 (MCS0) (CDD mode)   |
| Mode 16: Transmit by 802.11be-EHT80_Nss=2 (MCS0) (CDD mode)   |
| Mode 17: Transmit by 802.11be-EHT160_Nss=2 (MCS0) (CDD mode)  |
| Mode 18: Transmit by 802.11be-EHT320_Nss=2 (MCS0) (CDD mode)  |
| Beamforming Mode  |
| Mode 19: Transmit by 802.11ax-HE20_Nss=1 (MCS0) (Beam-Forming mode)   |
| Mode 20: Transmit by 802.11ax-HE40_Nss=1 (MCS0) (Beam-Forming mode)   |
| Mode 21: Transmit by 802.11ax-HE80_Nss=1 (MCS0) (Beam-Forming mode)   |
| Mode 22: Transmit by 802.11ax-HE160_Nss=1 (MCS0) (Beam-Forming mode)  |
| Mode 23: Transmit by 802.11be-EHT20_Nss=1 (MCS0) (Beam-Forming mode)  |
| Mode 24: Transmit by 802.11be-EHT40_Nss=1 (MCS0) (Beam-Forming mode)  |
| Mode 25: Transmit by 802.11be-EHT80_Nss=1 (MCS0) (Beam-Forming mode)  |
| Mode 26: Transmit by 802.11be-EHT160_Nss=1 (MCS0) (Beam-Forming mode)   |
| Mode 27: Transmit by 802.11be-EHT320_Nss=1 (MCS0) (Beam-Forming mode)   |
| Remark:   |
| <ol style="list-style-type: none"> <li>For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.</li> <li>For CDD mode, this device supports 2 N<sub>SS</sub> and the worst case is N<sub>SS</sub>=1. Meanwhile, N<sub>SS</sub>=2 at 802.11ax-HE20/be-EHT20/be-ETH320 was tested in this report. The power level of N<sub>SS</sub>=2 at other modes is the same as the N<sub>SS</sub>=1.</li> <li>Due to CDD mode was the worst mode, so all test items were evaluated in this report. The</li> </ol> |

beamforming mode only evaluated the RF output power.

4. EUT supports one configuration only in 802.11ax/be full RU mode.

## 2.6. Test System Connection Diagram

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



## 2.7. Test System Details

|   | Product     | Manufacturer | Model No.   | Serial No. | Power Cord         |
|---|-------------|--------------|-------------|------------|--------------------|
| 1 | Notebook PC | Lenovo       | 20Y7-006KTW | N/A        | Non-shielded, 0.8m |

## 2.8. Test Software

The test utility software used during testing was “accessMTool”, and the version was 3.2.1.2.

Note: Final power setting please refer to operational description.

## 2.9. Applied Standards

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

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

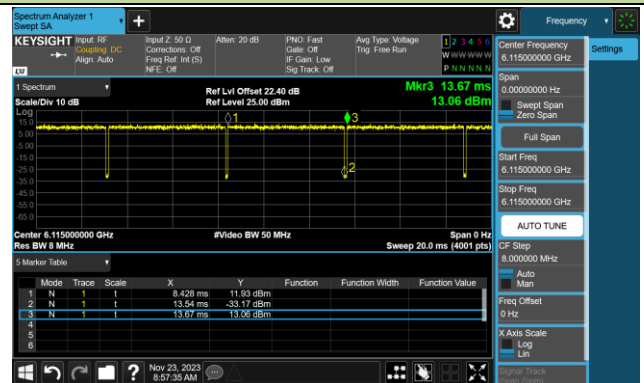
## 2.10. Duty Cycle

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than  $50/T$ , where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

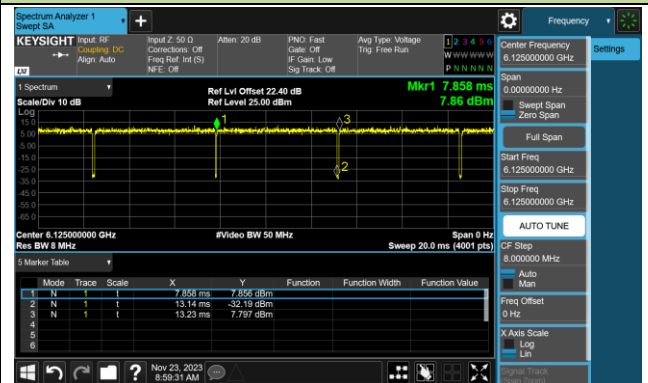
| Test Mode       | Duty Cycle |
|-----------------|------------|
| 802.11ax-HE20   | 97.52%     |
| 802.11ax-HE40   | 98.32%     |
| 802.11ax-HE80   | 98.16%     |
| 802.11ax-HE160  | 97.55%     |
| 802.11be-EHT20  | 98.47%     |
| 802.11be-EHT40  | 97.79%     |
| 802.11be-EHT80  | 96.90%     |
| 802.11be-EHT160 | 97.73%     |
| 802.11be-EHT320 | 96.53%     |

Duty Cycle (T = Transmission Duration)

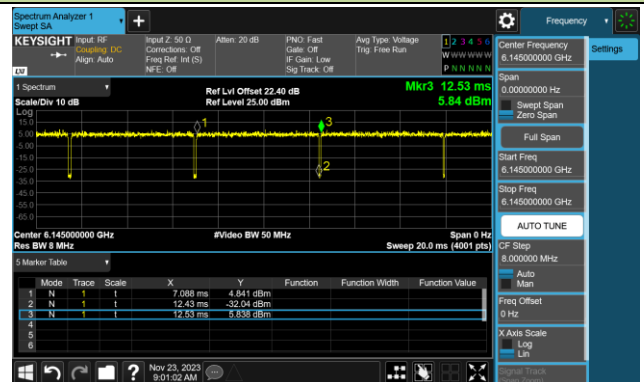
802.11ax-HE20



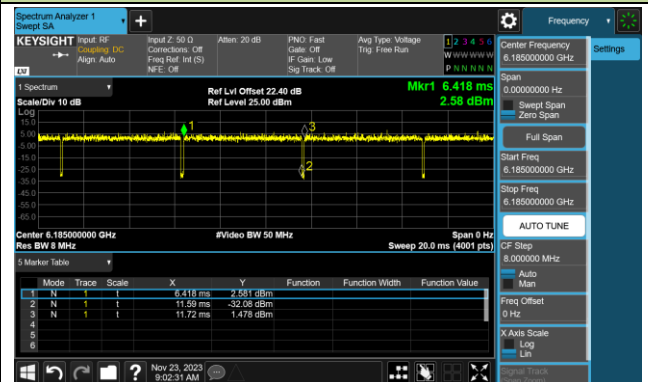
802.11ax-HE40



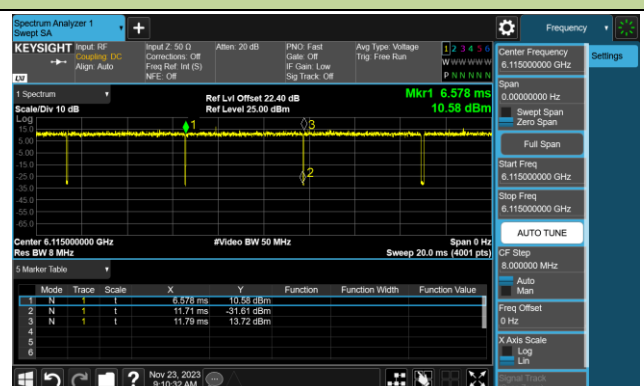
802.11ax-HE80



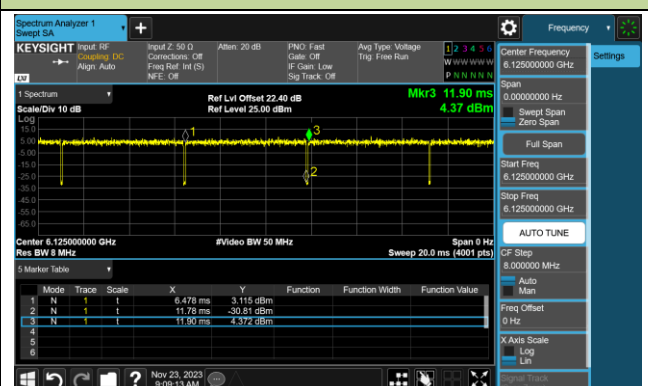
802.11ax-HE160



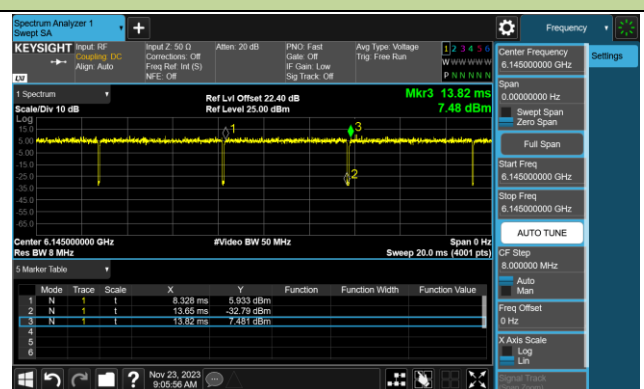
802.11be-EHT20



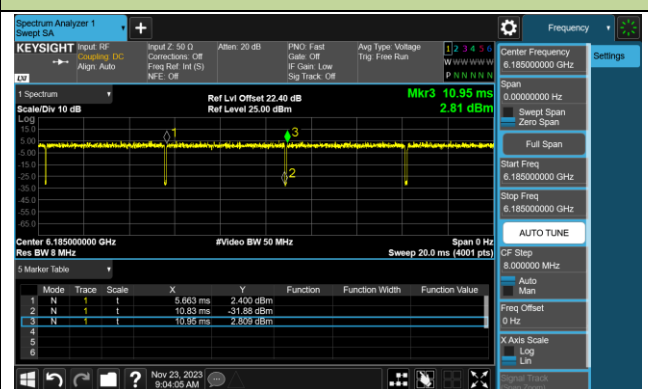
802.11be-EHT40

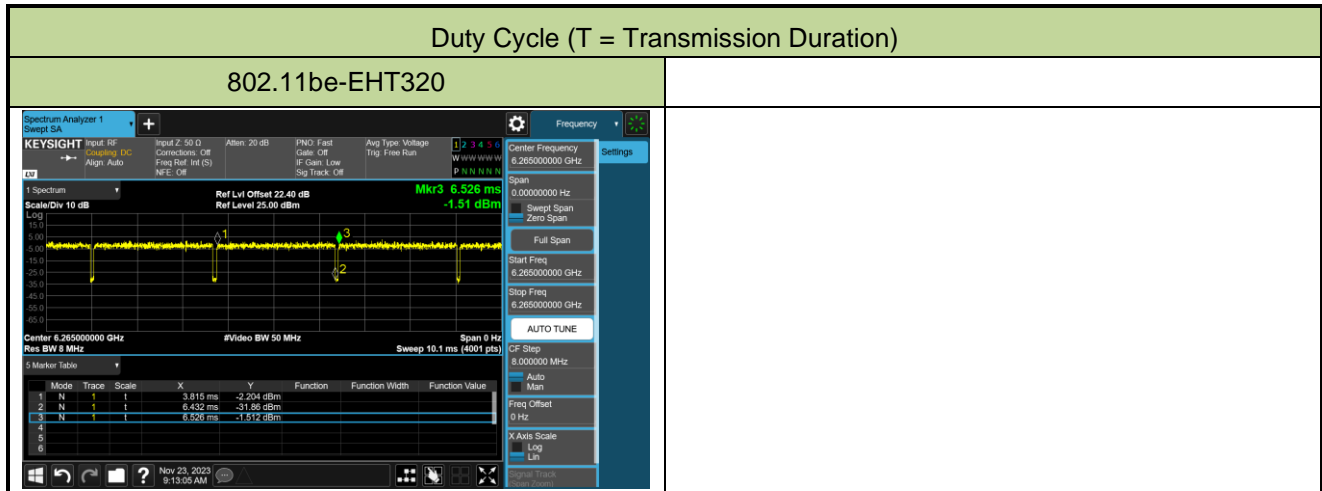


802.11be-EHT80



802.11be-EHT160





## 2.11. Test Environment Condition

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



### 3. Antenna Requirements

Excerpt from §15.407(a)(9) of the FCC Rules/Regulations:

Access points operating under the provisions of paragraphs (a)(5) and (a)(6) of this section must employ a permanently attached integrated antenna.

The antenna of the device is built in and locked inside the enclosure.

Conclusion:

The device complies with the requirement of §15.407(a)(9).

## 4. Measuring Instrument

### Conducted Emissions

| Instrument                   | Manufacturer | Type No. | Asset No.   | Cali. Interval | Cali. Due Date |
|------------------------------|--------------|----------|-------------|----------------|----------------|
| Two-Line V-Network           | R&S          | ENV216   | MRTTWA00019 | 1 year         | 2024/3/7       |
| Two-Line V-Network           | R&S          | ENV216   | MRTTWA00020 | 1 year         | 2024/4/17      |
| EMI Test Receiver            | R&S          | ESR3     | MRTTWA00045 | 1 year         | 2024/5/10      |
| DIVA PLUS Funk-Wetterstation | TFA          | 35.1083  | MRTTWA00050 | 1 year         | 2024/6/15      |

### Radiated Emissions

| Instrument                 | Manufacturer                | Type No.              | Asset No.   | Cali. Interval | Cali. Due Date |
|----------------------------|-----------------------------|-----------------------|-------------|----------------|----------------|
| Active Loop Antenna        | SCHWARZBECK                 | FMZB 1519B            | MRTTWA00002 | 1 year         | 2024/5/22      |
| Broadband TRILOG Antenna   | SCHWARZBECK                 | VULB 9162             | MRTTWA00001 | 1 year         | 2024/10/31     |
| Broadband Hornantenna      | RFSPIN                      | DRH18-E               | MRTTWA00087 | 1 year         | 2024/5/17      |
| Broadband Preamplifier     | EMC Instruments corporation | EMC118A45SE           | MRTTWA00088 | 1 year         | 2024/5/17      |
| Breitband Hornantenna      | SCHWARZBECK                 | BBHA 9170             | MRTTWA00004 | 1 year         | 2024/3/20      |
| Broadband Amplifier        | SCHWARZBECK                 | BBV 9721              | MRTTWA00006 | 1 year         | 2024/3/27      |
| EMI Test Receiver          | R&S                         | ESR3                  | MRTTWA00009 | 1 year         | 2024/3/8       |
| Signal Analyzer            | R&S                         | FSVA3044              | MRTTWA00092 | 1 year         | 2024/6/29      |
| Antenna Cable              | HUBERSUHNER                 | SF106                 | MRTTWE00034 | 1 year         | 2024/6/26      |
| Cable                      | HUBERSUHNER                 | EMC105-NM-N<br>M-3000 | MRTTWE00035 | 1 year         | 2024/6/26      |
| Temperature/Humidity Meter | TFA                         | 35.1078.10.IT         | MRTTWA00032 | 1 year         | 2024/6/4       |

### Conducted Test Equipment

| Instrument                                 | Manufacturer | Type No. | Asset No.   | Cali. Interval | Cali. Due Date |
|--|--------------|----------|-------------|----------------|----------------|
| X-Series USB Peak and Average Power Sensor | KEYSIGHT     | U2021XA  | MRTTWA00014 | 1 year         | 2024/4/19      |
| EXA Signal Analyzer                        | KEYSIGHT     | N9010A   | MRTTWA00012 | 1 year         | 2024/10/17     |
| EXA Signal Analyzer                        | KEYSIGHT     | N9010B   | MRTTWA00074 | 1 year         | 2024/7/19      |
| Attenuator                                 | WTI          | 218FS-20 | MRTTWE00026 | 1 year         | 2024/11/1      |
| Attenuator                                 | WTI          | 218FS-10 | MRTTWE00027 | 1 year         | 2024/6/14      |
| Temperature & Humidity Chamber             | TEN BILLION  | TTH-B3UP | MRTTWA00036 | 1 year         | 2024/6/11      |
| DIVA PLUS Funk-Wetterstation               | TFA          | 35.1083  | MRTTWA00050 | 1 year         | 2024/6/15      |

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| Software | Version   | Function          |
|----------|-----------|-------------------|
| e3       | 9.160520a | EMI Test Software |

## 5. Measurement Uncertainty

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

|   |
|---|
| <b>AC Conducted Emission Measurement</b>  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ):<br>150kHz~30MHz: $\pm 2.53\text{dB}$                                     |
| <b>Radiated Emission Measurement</b>  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ):<br>9kHz ~ 1GHz: $\pm 4.25\text{dB}$<br>1GHz ~ 40GHz: $\pm 4.45\text{dB}$ |
| <b>Conducted Power (Carrier Power / Power Density)</b>  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 0.84\text{dB}$  |
| <b>Conducted Spurious Emission</b>  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 2.65\text{ dB}$   |
| <b>Occupied Bandwidth</b>   |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 3.3\%$  |
| <b>Temp. / Humidity</b>   |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 0.82^\circ\text{C} / \pm 3\%$                                       |
| <b>Frequency Error</b>  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 78.4\text{Hz}$  |

## 6. Test Result

### 6.1. Summary

| FCC Section(s)         | Test Description  | Test Condition | Verdict |
|------------------------|---|----------------|---------|
| 15.407(a)              | 26dB Bandwidth  | Conducted      | Pass    |
| 15.407(a)(5), (a)(6)   | Maximum Equivalent Isotropically Radiated Power (E.I.R.P)       |                | Pass    |
| 15.407(a)(5), (a)(6)   | Peak Power Spectral Density (E.I.R.P)                           |                | Pass    |
| 15.407(b)(6)           | In-Band Emission  |                | Pass    |
| 15.407(d)(6)           | Contention-Based Protocol                                       |                | Pass    |
| 15.407(b)(5)           | Unwanted Emissions  |                | Pass    |
| 15.407(b)(7), (8), (9) | General Field Strength (Restricted Bands and Radiated Emission) | Radiated       | Pass    |
| 15.207                 | AC Conducted Emissions<br>150kHz - 30MHz                        | Line Conducted | Pass    |

Notes:

- Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- For radiated emission test, the test results shown in the following sections represent the worst-case emissions.

## 6.2. 26dB Bandwidth

### 6.2.1. Test Limit

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

### 6.2.2. Test Procedure used

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

KDB 789033 D02v02r01- Section D (99% Bandwidth)

### 6.2.3. Test Setting

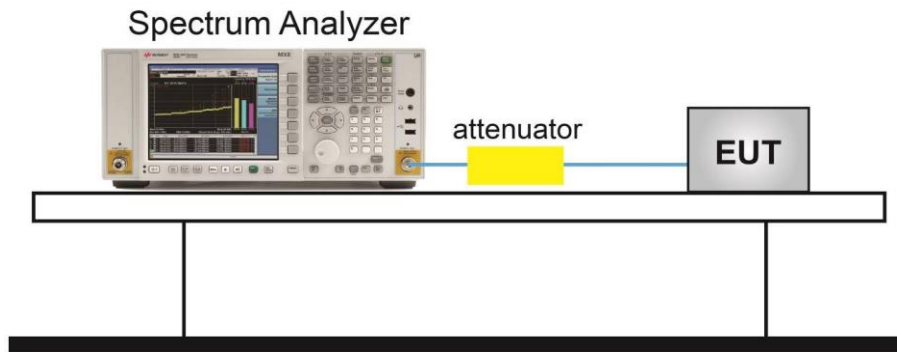
#### 26dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 26$ . The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold.

#### 99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW  $\geq 3 \times$  RBW
5. Detector = Peak.
6. Use the 99% power bandwidth function of the instrument.

### 6.2.4. Test Setup



### 6.2.5. Test Result

|           |           |               |      |
|-----------|-----------|---------------|------|
| Test Site | SR6       | Test Engineer | Xuan |
| Test Date | 2023/12/8 |               |      |

| Test Mode     | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | Limit<br>(MHz) |
|---------------|-------------------|-------------|--------------------|-------------------------|------------------------|----------------|
| 802.11ax-HE20 | MCS0              | 33          | 6115               | 23.37                   | 19.073                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 61          | 6255               | 22.50                   | 19.104                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 93          | 6415               | 22.77                   | 19.120                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 97          | 6435               | 22.42                   | 19.106                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 105         | 6475               | 22.06                   | 19.066                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 113         | 6515               | 22.19                   | 19.074                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 117         | 6535               | 21.70                   | 19.111                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 149         | 6695               | 22.45                   | 19.089                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 181         | 6855               | 22.06                   | 19.077                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 185         | 6875               | 22.01                   | 19.040                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 189         | 6895               | 22.05                   | 19.124                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 213         | 7015               | 22.18                   | 19.031                 | ≤ 320          |
| 802.11ax-HE20 | MCS0              | 229         | 7095               | 22.90                   | 19.036                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 35          | 6125               | 43.15                   | 38.012                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 59          | 6245               | 44.71                   | 37.973                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 91          | 6405               | 42.87                   | 37.953                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 99          | 6445               | 43.12                   | 37.998                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 107         | 6485               | 42.95                   | 37.983                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 115         | 6525               | 43.57                   | 38.007                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 123         | 6565               | 42.36                   | 37.969                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 147         | 6685               | 43.13                   | 37.910                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 179         | 6845               | 42.81                   | 38.006                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 187         | 6885               | 43.17                   | 37.987                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 195         | 6925               | 43.59                   | 38.031                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 211         | 7005               | 43.17                   | 37.979                 | ≤ 320          |
| 802.11ax-HE40 | MCS0              | 227         | 7085               | 42.79                   | 37.971                 | ≤ 320          |



| Test Mode      | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | Limit<br>(MHz) |
|----------------|-------------------|-------------|--------------------|-------------------------|------------------------|----------------|
| 802.11ax-HE80  | MCS0              | 39          | 6145               | 89.17                   | 77.866                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 55          | 6225               | 85.56                   | 77.736                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 87          | 6385               | 85.63                   | 77.673                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 103         | 6465               | 86.21                   | 77.824                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 119         | 6545               | 88.11                   | 77.879                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 135         | 6625               | 87.30                   | 77.703                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 151         | 6705               | 86.21                   | 77.635                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 167         | 6785               | 88.49                   | 77.938                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 183         | 6865               | 86.52                   | 77.723                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 199         | 6945               | 88.23                   | 77.667                 | ≤ 320          |
| 802.11ax-HE80  | MCS0              | 215         | 7025               | 84.59                   | 77.680                 | ≤ 320          |
| 802.11ax-HE160 | MCS0              | 47          | 6185               | 169.1                   | 157.27                 | ≤ 320          |
| 802.11ax-HE160 | MCS0              | 79          | 6345               | 166.3                   | 157.13                 | ≤ 320          |
| 802.11ax-HE160 | MCS0              | 111         | 6505               | 165.2                   | 157.39                 | ≤ 320          |
| 802.11ax-HE160 | MCS0              | 143         | 6665               | 166.8                   | 157.34                 | ≤ 320          |
| 802.11ax-HE160 | MCS0              | 175         | 6825               | 167.1                   | 157.19                 | ≤ 320          |
| 802.11ax-HE160 | MCS0              | 207         | 6985               | 167.2                   | 157.20                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 33          | 6115               | 23.02                   | 19.070                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 61          | 6255               | 22.58                   | 19.075                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 93          | 6415               | 22.18                   | 19.131                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 97          | 6435               | 22.46                   | 19.078                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 105         | 6475               | 23.25                   | 19.065                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 113         | 6515               | 22.56                   | 19.068                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 117         | 6535               | 22.75                   | 19.133                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 149         | 6695               | 21.65                   | 19.080                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 181         | 6855               | 22.38                   | 19.089                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 185         | 6875               | 22.62                   | 19.078                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 189         | 6895               | 22.58                   | 19.070                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 213         | 7015               | 23.30                   | 19.085                 | ≤ 320          |
| 802.11be-EHT20 | MCS0              | 229         | 7095               | 22.19                   | 19.066                 | ≤ 320          |

| Test Mode       | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | Limit<br>(MHz) |
|-----------------|-------------------|-------------|--------------------|-------------------------|------------------------|----------------|
| 802.11be-EHT40  | MCS0              | 35          | 6125               | 43.62                   | 37.973                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 59          | 6245               | 42.73                   | 37.971                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 91          | 6405               | 42.91                   | 38.050                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 99          | 6445               | 43.90                   | 38.050                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 107         | 6485               | 43.54                   | 37.988                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 115         | 6525               | 43.24                   | 38.037                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 123         | 6565               | 42.21                   | 37.983                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 147         | 6685               | 43.43                   | 37.996                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 179         | 6845               | 43.02                   | 38.024                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 187         | 6885               | 42.07                   | 38.128                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 195         | 6925               | 43.59                   | 38.000                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 211         | 7005               | 43.16                   | 37.943                 | ≤ 320          |
| 802.11be-EHT40  | MCS0              | 227         | 7085               | 42.41                   | 38.036                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 39          | 6145               | 85.73                   | 77.799                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 55          | 6225               | 85.95                   | 77.736                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 87          | 6385               | 87.17                   | 77.686                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 103         | 6465               | 86.83                   | 77.765                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 119         | 6545               | 85.79                   | 77.700                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 135         | 6625               | 87.22                   | 77.845                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 151         | 6705               | 87.08                   | 77.812                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 167         | 6785               | 86.42                   | 77.682                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 183         | 6865               | 88.36                   | 77.613                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 199         | 6945               | 85.28                   | 77.731                 | ≤ 320          |
| 802.11be-EHT80  | MCS0              | 215         | 7025               | 85.20                   | 77.722                 | ≤ 320          |
| 802.11be-EHT160 | MCS0              | 47          | 6185               | 169.3                   | 157.23                 | ≤ 320          |
| 802.11be-EHT160 | MCS0              | 79          | 6345               | 164.9                   | 157.02                 | ≤ 320          |
| 802.11be-EHT160 | MCS0              | 111         | 6505               | 168.3                   | 157.40                 | ≤ 320          |
| 802.11be-EHT160 | MCS0              | 143         | 6665               | 170.1                   | 157.22                 | ≤ 320          |
| 802.11be-EHT160 | MCS0              | 175         | 6825               | 167.6                   | 157.16                 | ≤ 320          |
| 802.11be-EHT160 | MCS0              | 207         | 6985               | 167.6                   | 157.15                 | ≤ 320          |
| 802.11be-EHT320 | MCS0              | 63          | 6265               | 329.7                   | 315.75                 | ≤ 320          |
| 802.11be-EHT320 | MCS0              | 95          | 6425               | 329.6                   | 316.42                 | ≤ 320          |
| 802.11be-EHT320 | MCS0              | 127         | 6585               | 331.5                   | 316.05                 | ≤ 320          |
| 802.11be-EHT320 | MCS0              | 159         | 6745               | 329.3                   | 316.59                 | ≤ 320          |
| 802.11be-EHT320 | MCS0              | 191         | 6905               | 329.5                   | 316.11                 | ≤ 320          |

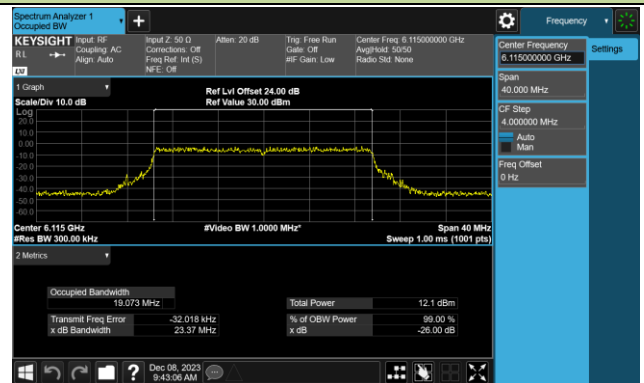
Note:

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

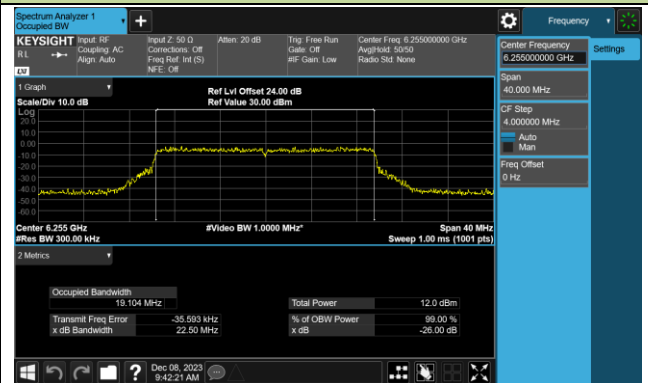
For channels with a nominal bandwidth of 320 MHz compliance is demonstrated by way of the 99% BW.

802.11ax-HE20 26dB Bandwidth & 99% Bandwidth

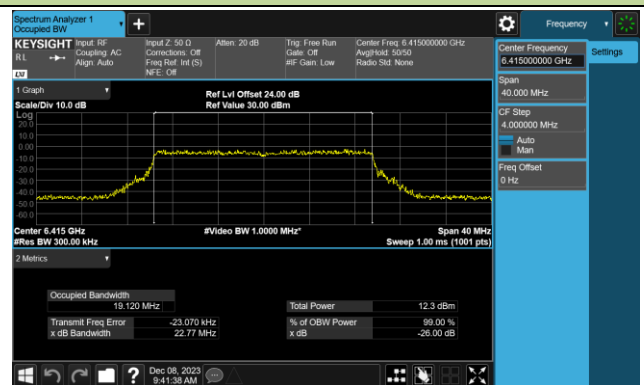
Channel 33 (6115MHz)



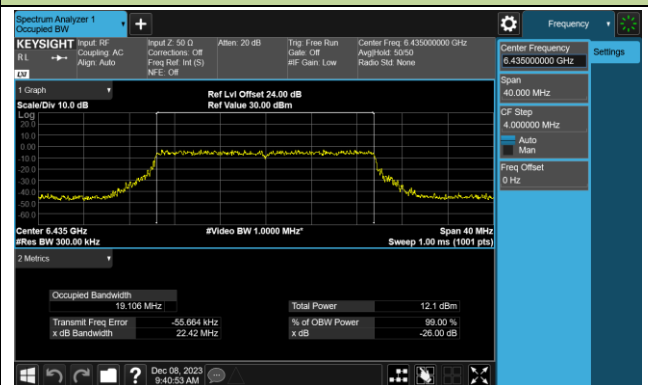
Channel 61 (6255MHz)



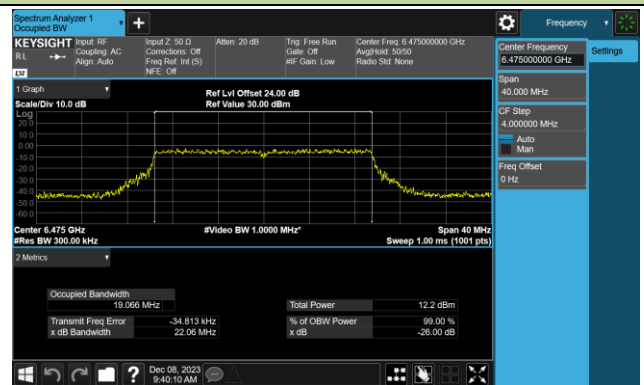
Channel 93 (6415MHz)



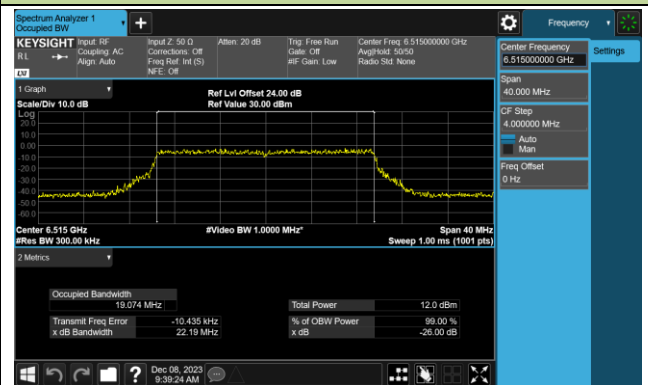
Channel 97 (6435MHz)



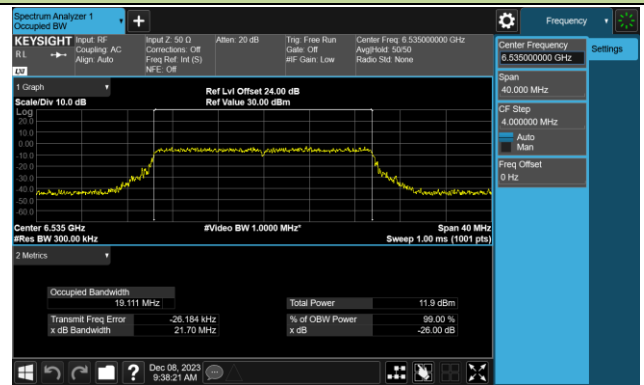
Channel 105 (6475MHz)



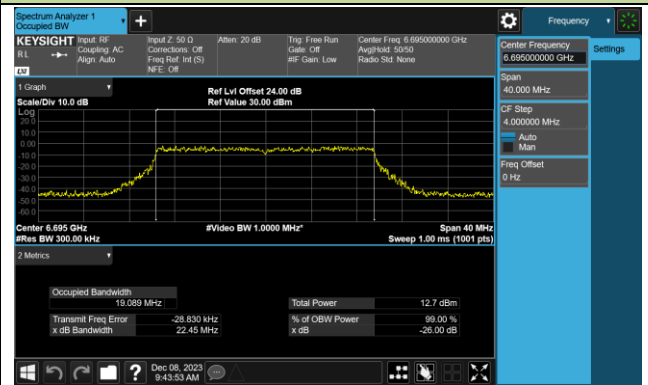
Channel 113 (6515MHz)



Channel 117 (6535MHz)

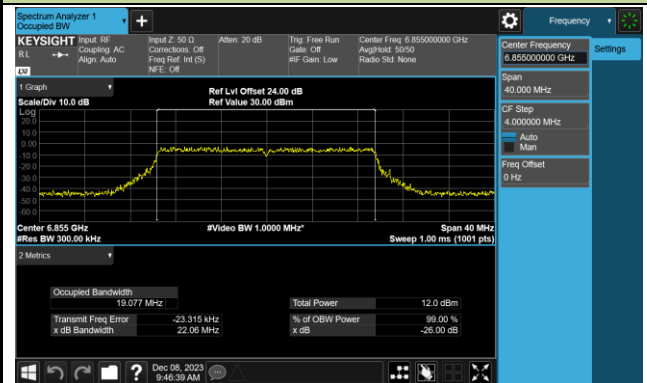


Channel 149 (6695MHz)

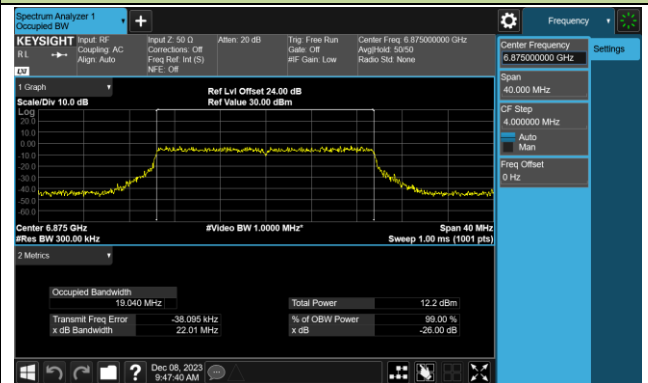


802.11ax-HE20 26dB Bandwidth & 99% Bandwidth

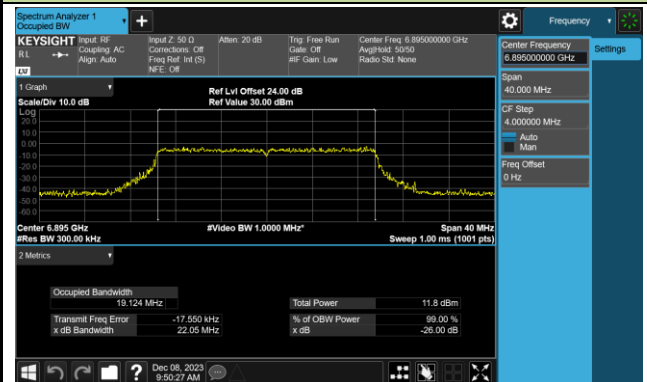
Channel 181 (6855MHz)



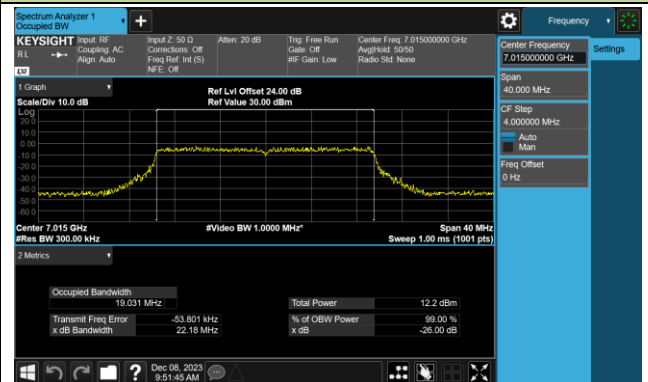
Channel 185 (6875MHz)



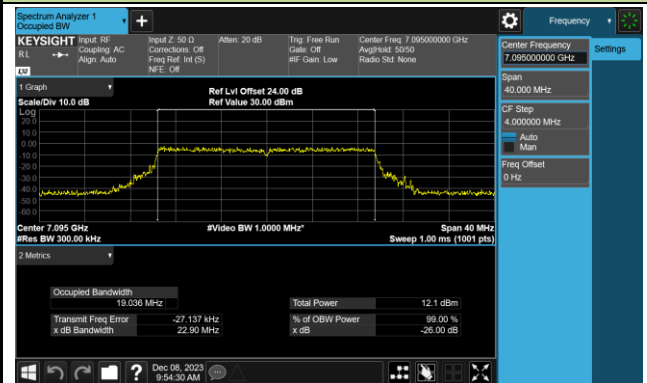
Channel 189 (6895MHz)



Channel 213 (7015MHz)

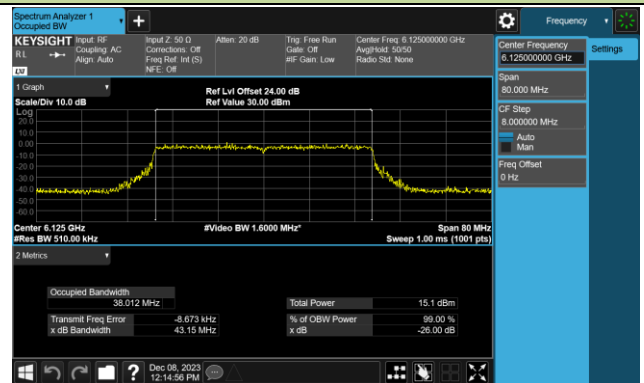


Channel 229 (7095MHz)

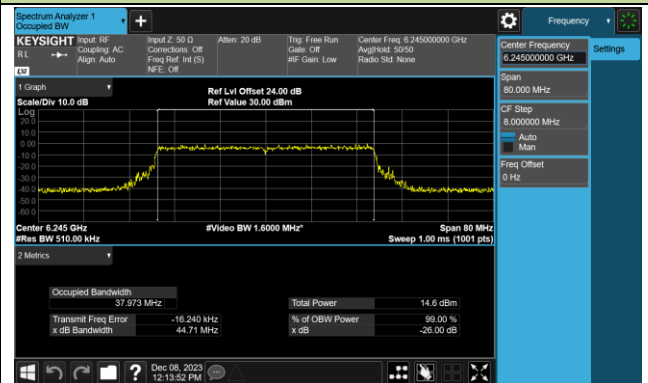


802.11ax-HE40 26dB Bandwidth & 99% Bandwidth

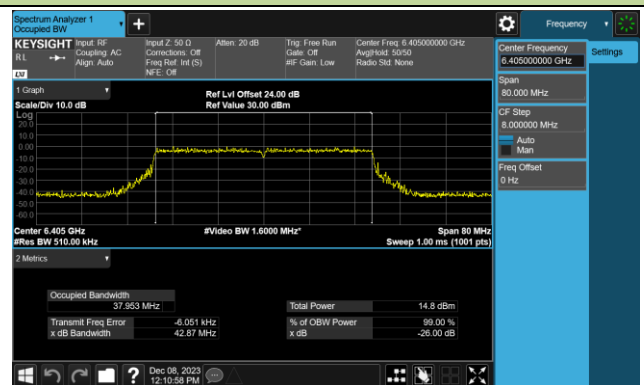
Channel 35 (6125MHz)



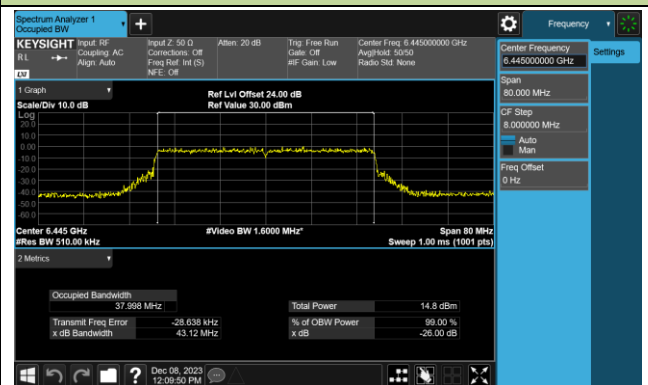
Channel 59 (6245MHz)



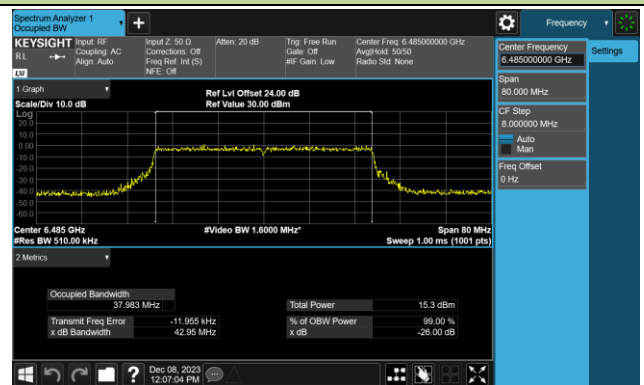
Channel 91 (6405MHz)



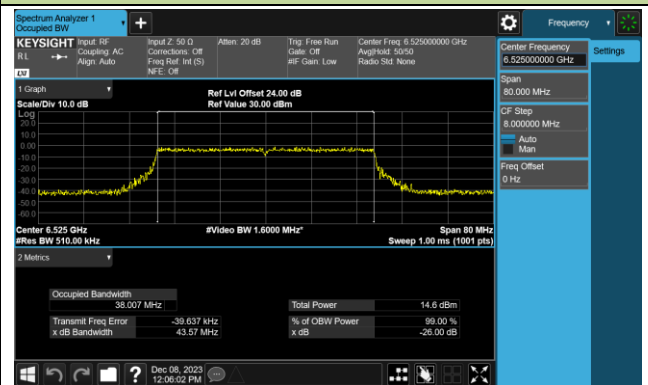
Channel 99 (6445MHz)



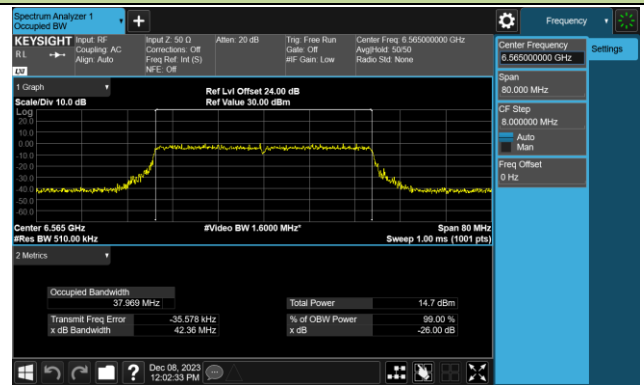
Channel 107 (6485MHz)



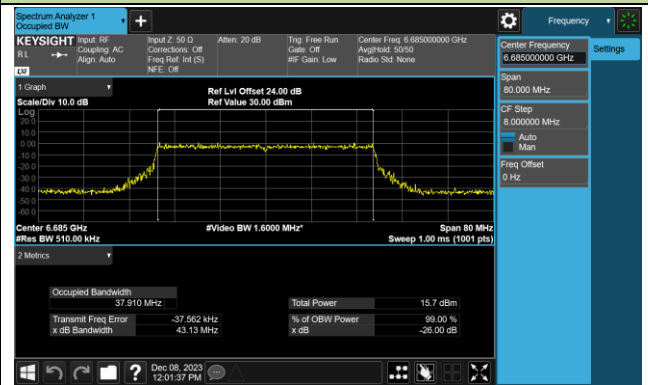
Channel 115 (6525MHz)



Channel 123 (6565MHz)

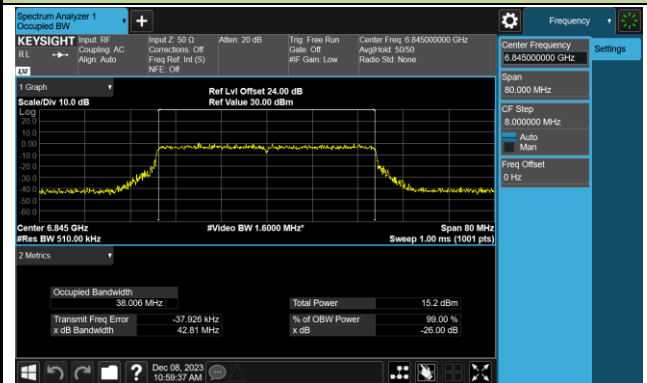


Channel 147 (6685MHz)

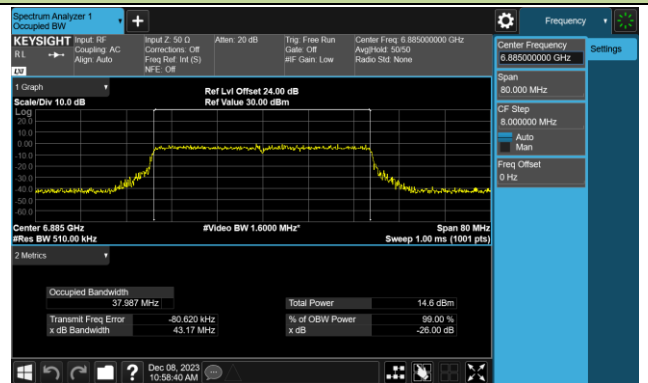


802.11ax-HE40 26dB Bandwidth & 99% Bandwidth

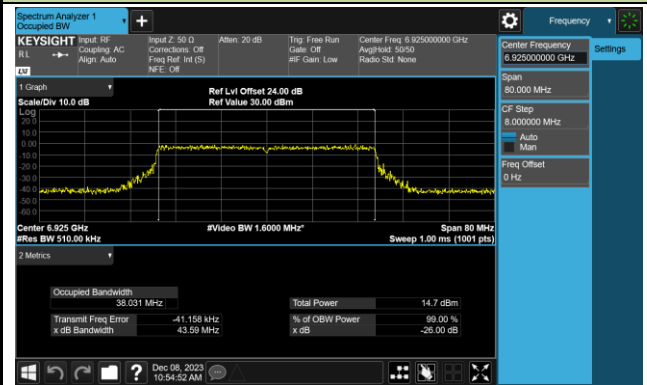
Channel 179 (6845MHz)



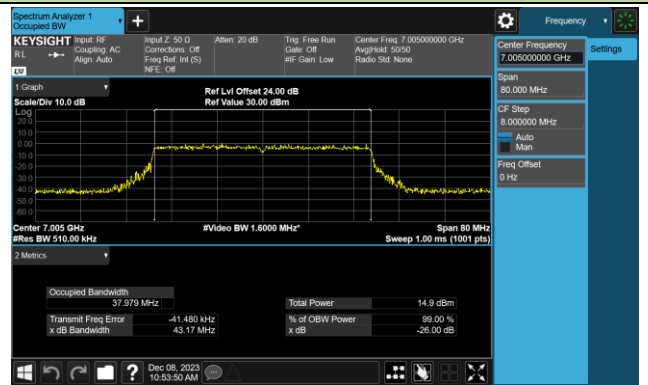
Channel 187 (6885MHz)



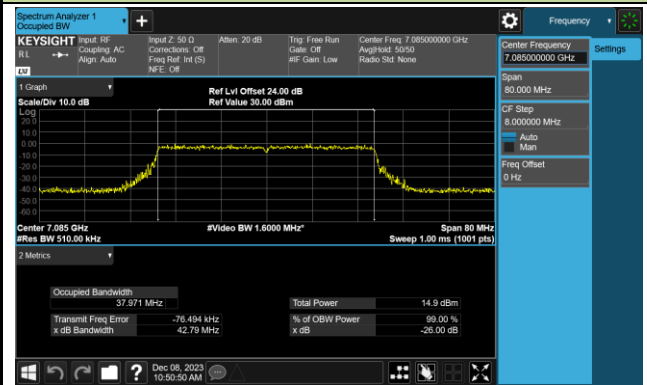
Channel 195 (6925MHz)



Channel 211 (7005MHz)

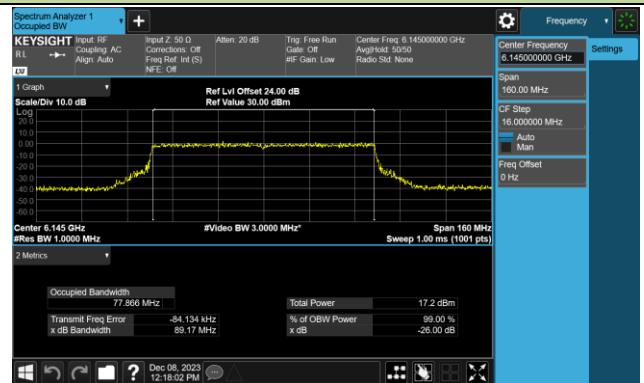


Channel 227 (7085MHz)

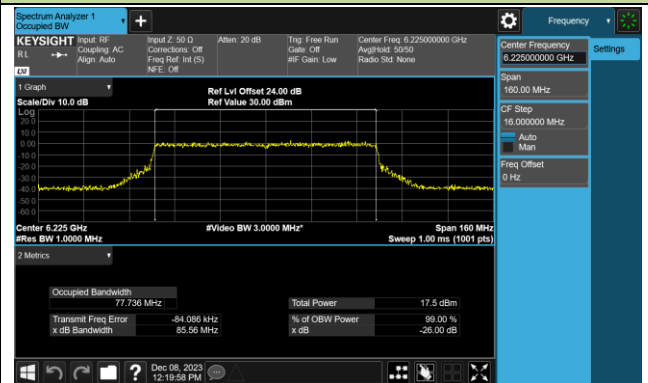


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

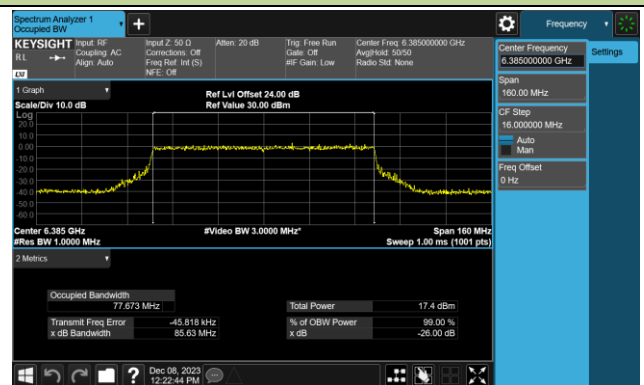
Channel 39 (6145MHz)



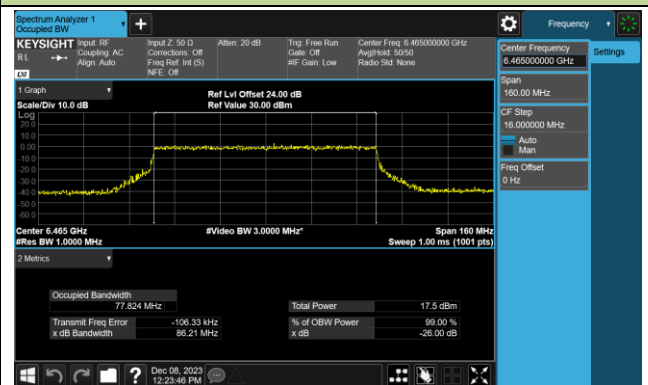
Channel 55 (6225MHz)



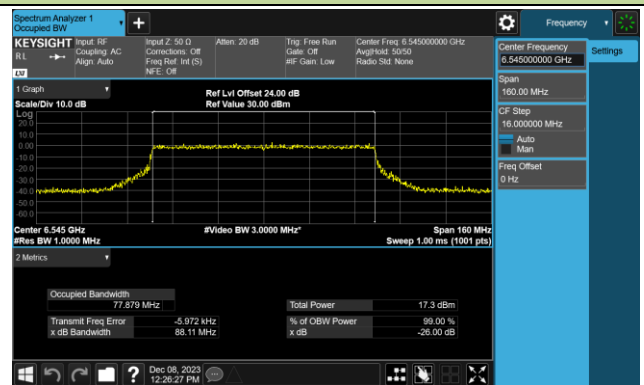
Channel 87 (6385MHz)



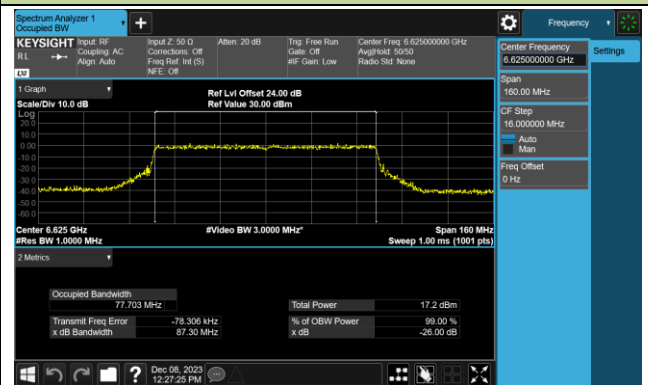
Channel 103 (6465MHz)



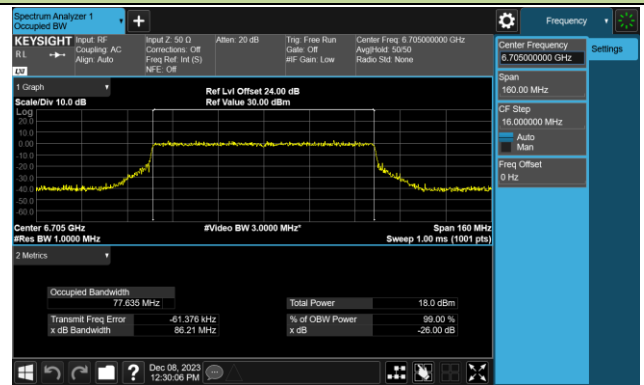
Channel 119 (6545MHz)



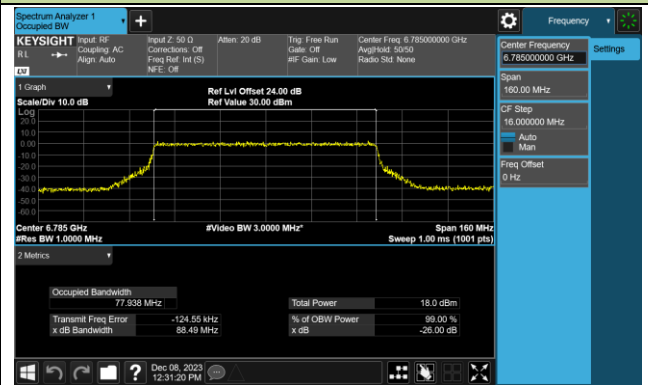
Channel 135 (6625MHz)



Channel 151 (6705MHz)



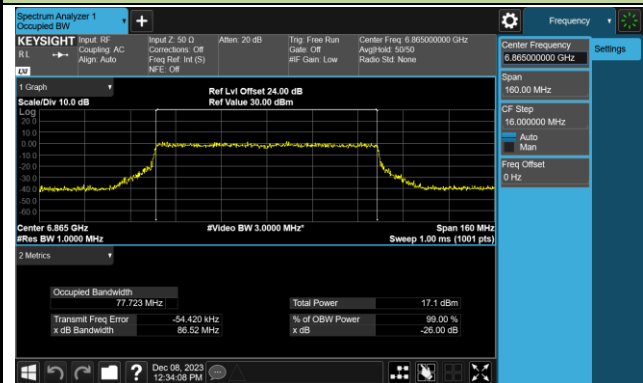
Channel 167 (6785MHz)



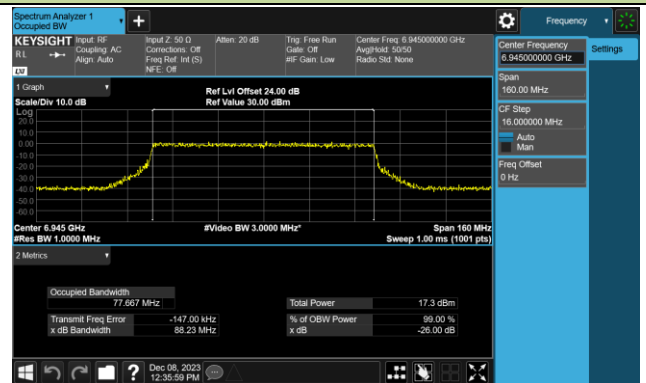


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

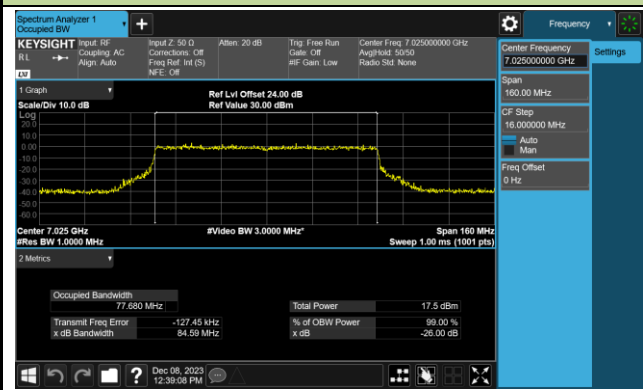
Channel 183 (6865MHz)



Channel 199 (6945MHz)

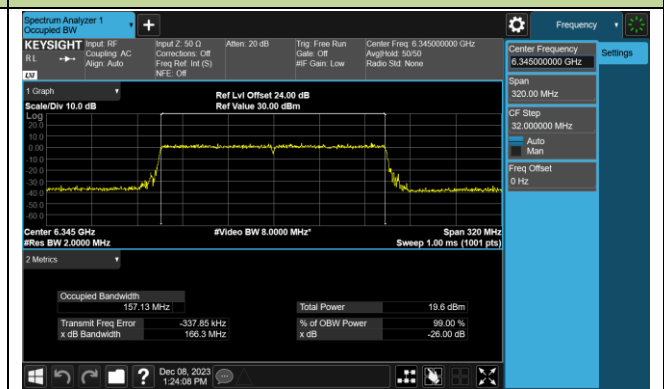
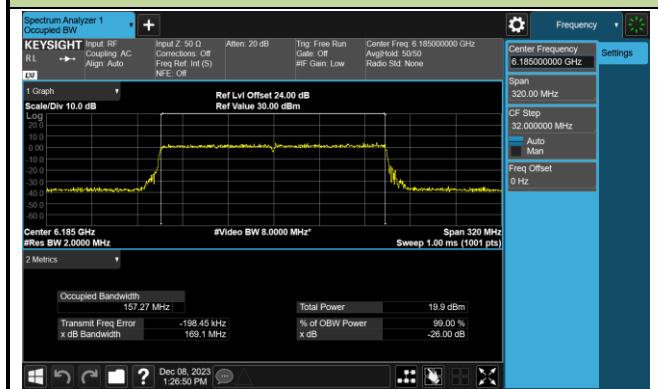


Channel 215 (7025MHz)

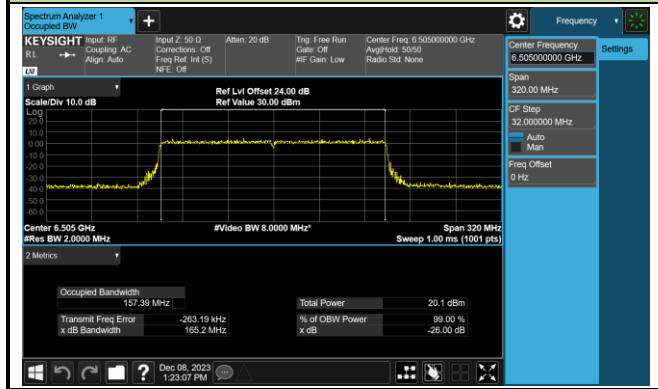


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

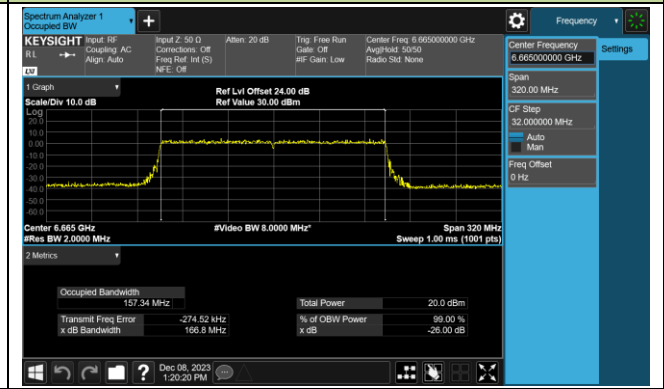
Channel 47 (6185MHz) Channel 79 (6345MHz)



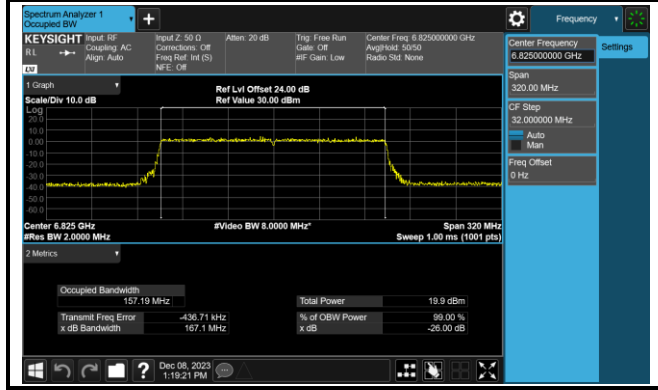
Channel 111 (6505MHz)



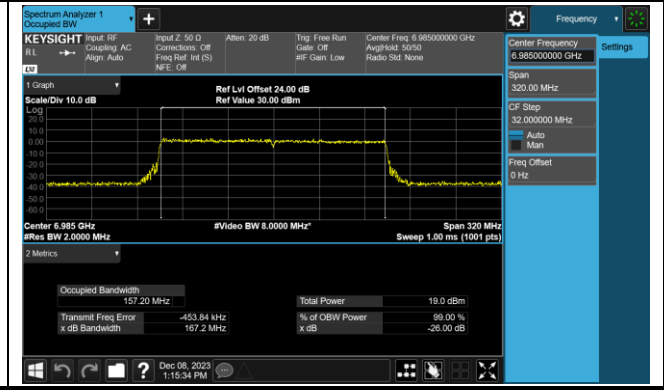
Channel 143 (6665MHz)



Channel 175 (6825MHz)

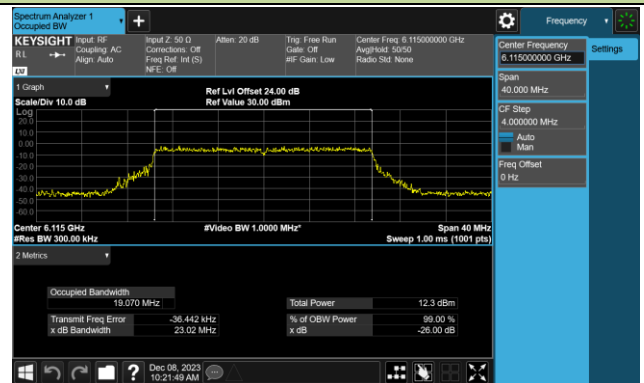


Channel 207 (6985MHz)

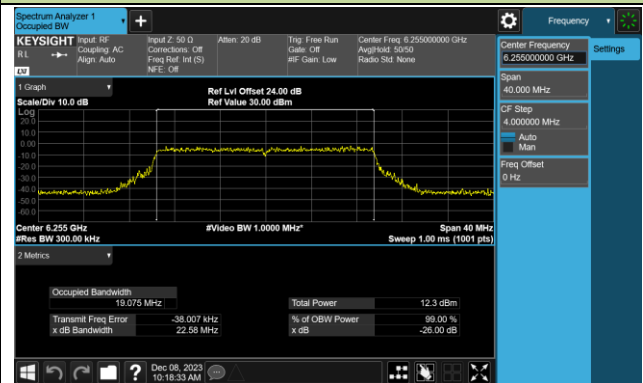


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

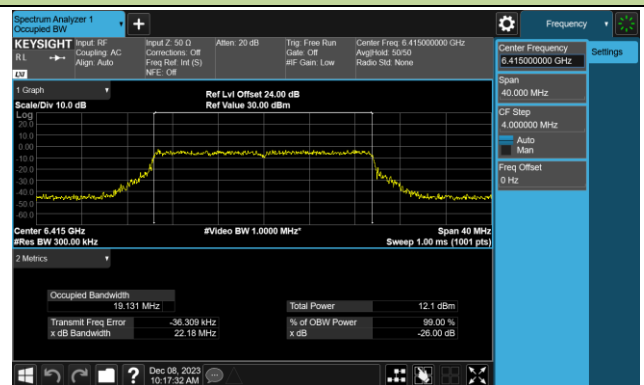
Channel 33 (6115MHz)



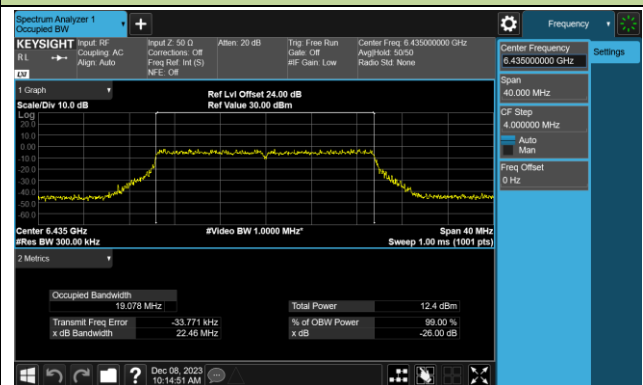
Channel 61 (6255MHz)



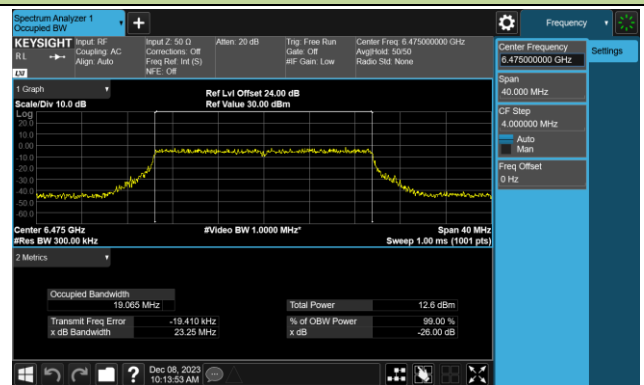
Channel 93 (6415MHz)



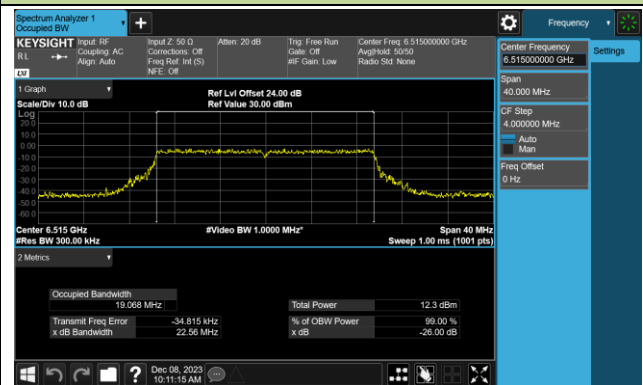
Channel 97 (6435MHz)



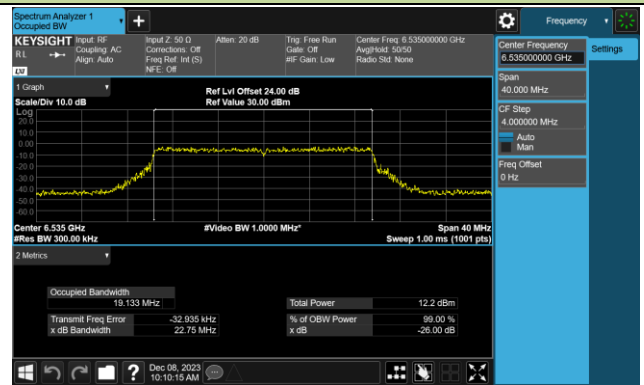
Channel 105 (6475MHz)



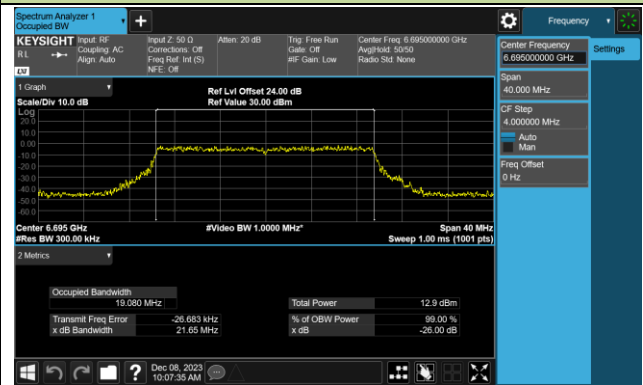
Channel 113 (6515MHz)

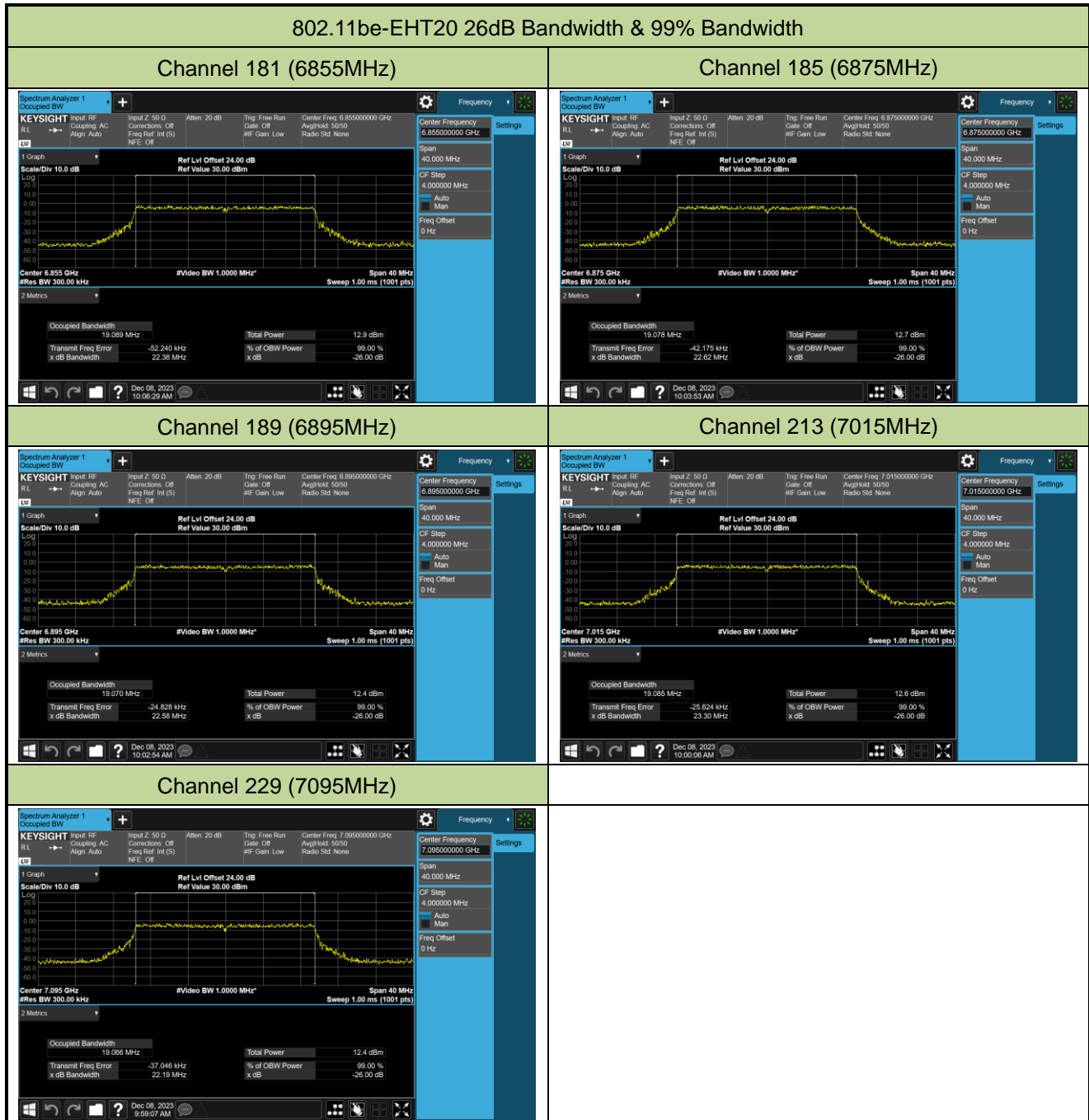


Channel 117 (6535MHz)



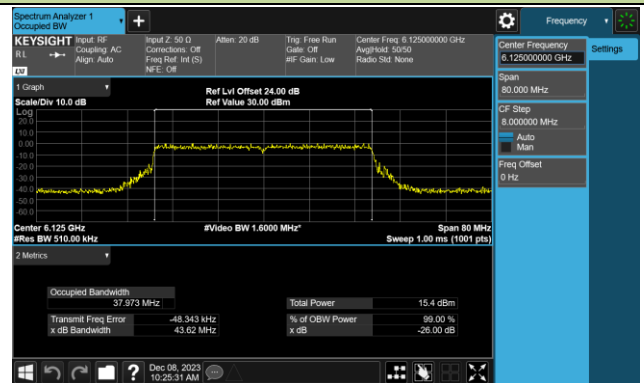
Channel 149 (6695MHz)



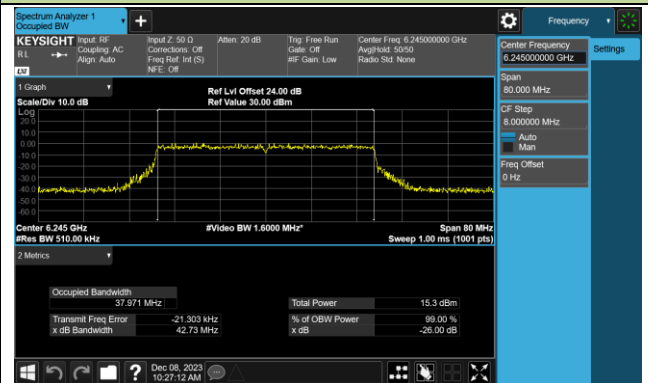


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

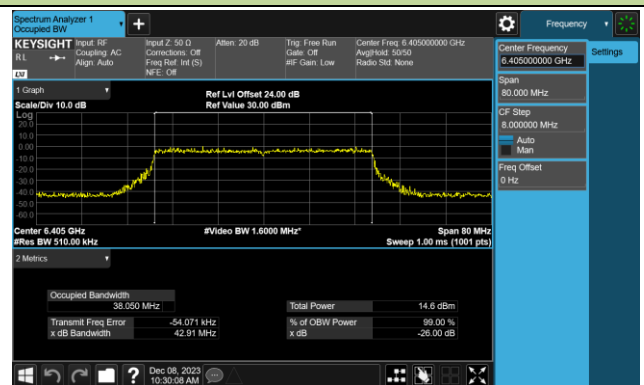
Channel 35 (6125MHz)



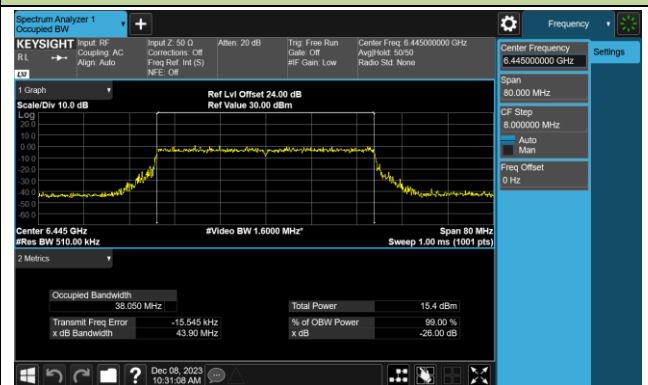
Channel 59 (6245MHz)



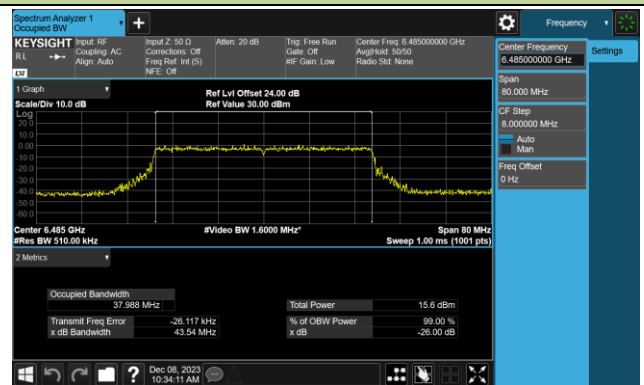
Channel 91 (6405MHz)



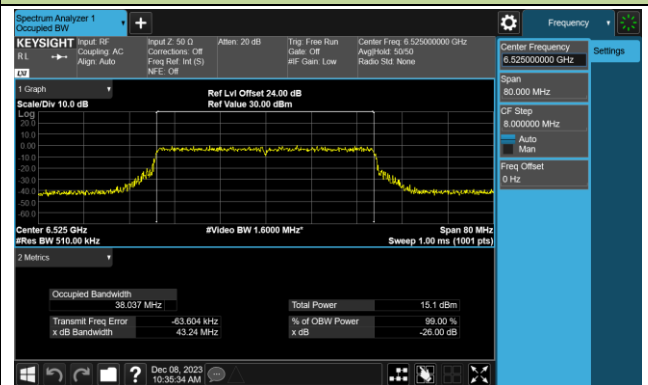
Channel 99 (6445MHz)



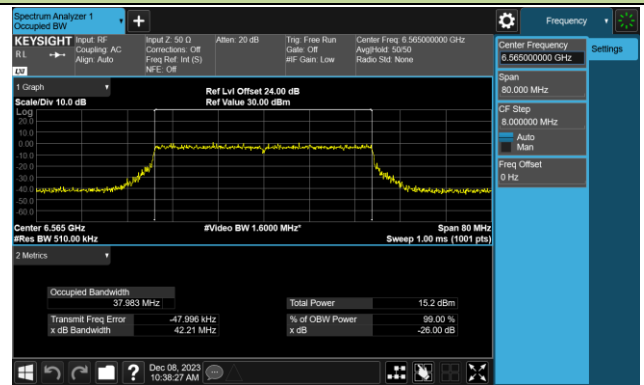
Channel 107 (6485MHz)



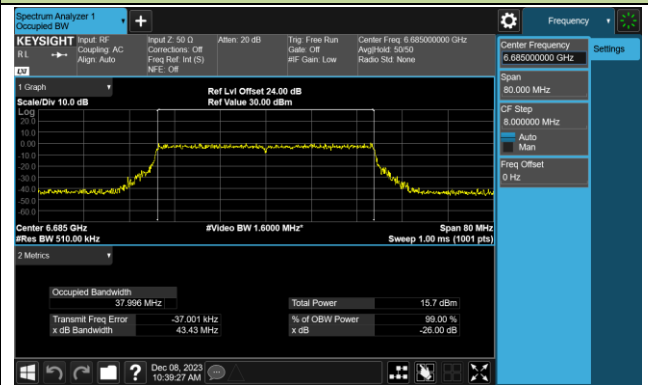
Channel 115 (6525MHz)



Channel 123 (6565MHz)

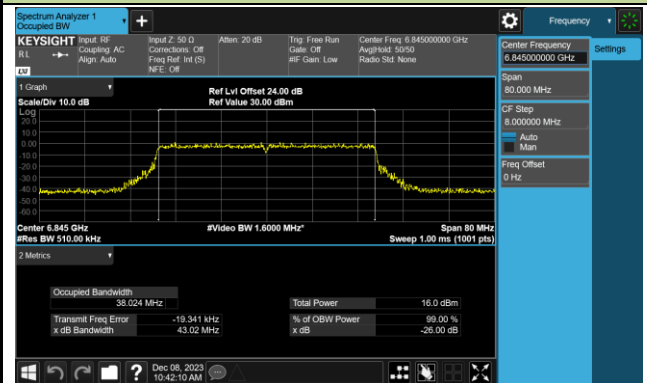


Channel 147 (6685MHz)

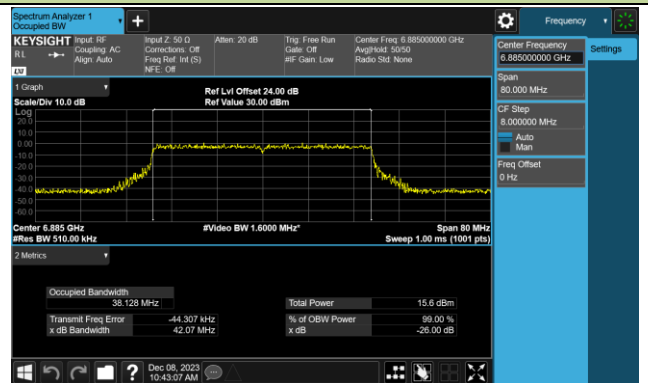


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

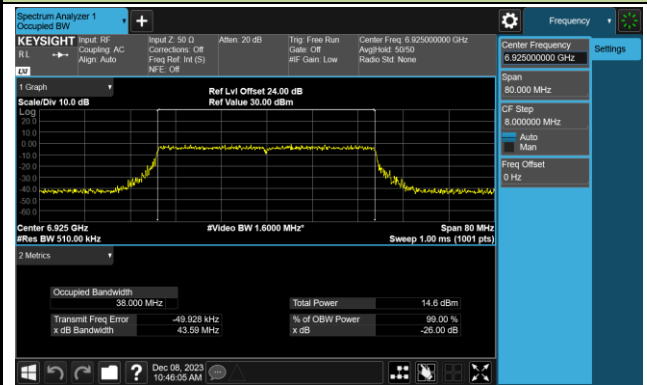
Channel 179 (6845MHz)



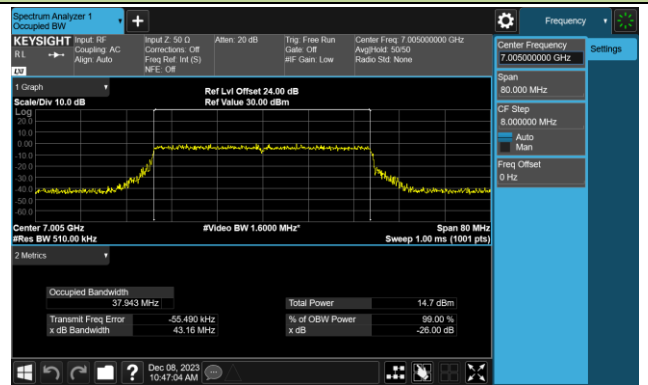
Channel 187 (6885MHz)



Channel 195 (6925MHz)



Channel 211 (7005MHz)



Channel 227 (7085MHz)

