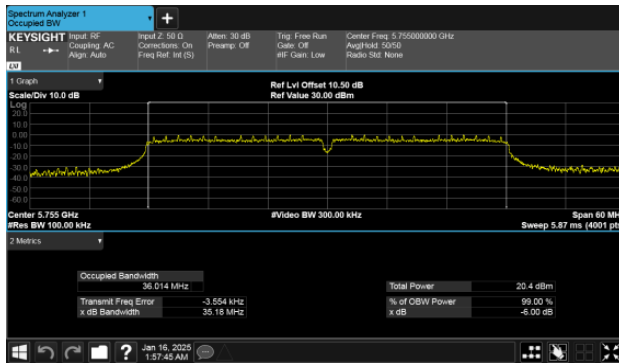


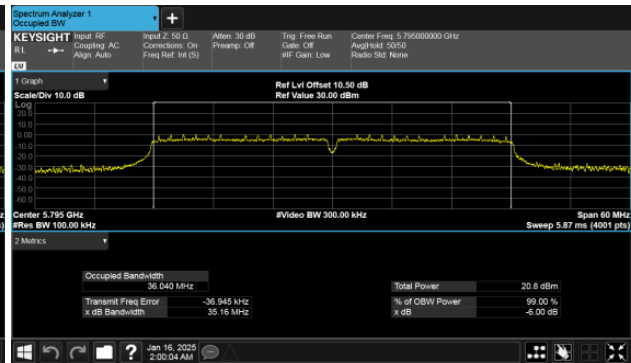


## 6dB Bandwidth

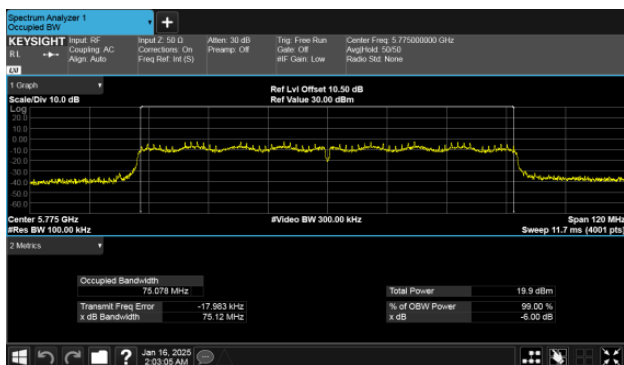
Modulation Type: 802.11ac VHT40 CH151



Modulation Type: 802.11ac VHT40 CH159



Modulation Type: 802.11ac VHT80 CH155





## 6dB Bandwidth

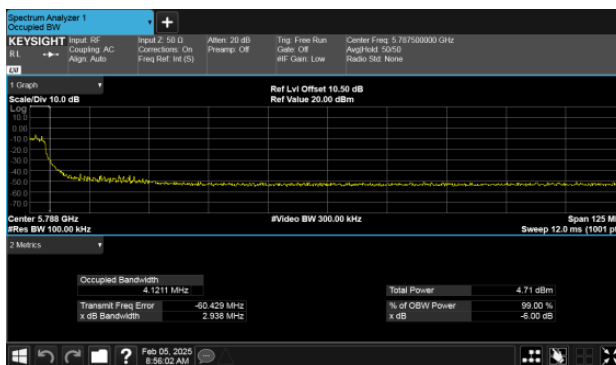
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a CH144

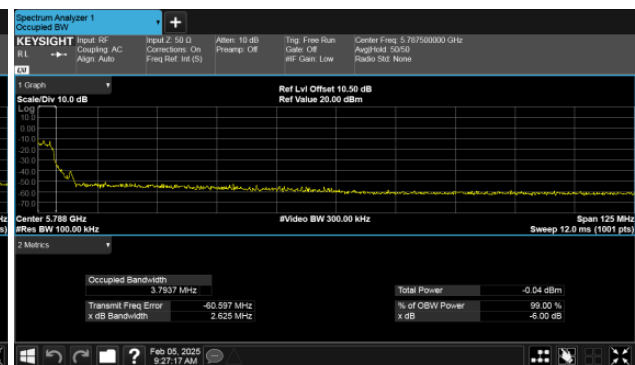
Modulation Type: 802.11ac VHT20 CH144



Modulation Type: 802.11ac VHT40 CH142



Modulation Type: 802.11ac VHT80 CH138





## 99% Bandwidth

Modulation Type: 802.11a CH149



Modulation Type: 802.11a CH157



Modulation Type: 802.11a CH165





## 99% Bandwidth

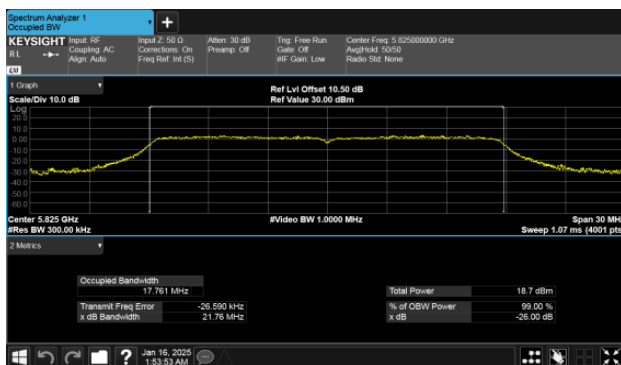
Modulation Type: 802.11ac VHT20 CH149



Modulation Type: 802.11ac VHT20 CH157



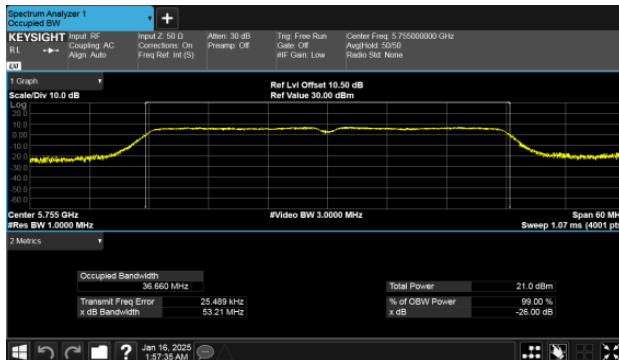
Modulation Type: 802.11ac VHT20 CH165





## 99% Bandwidth

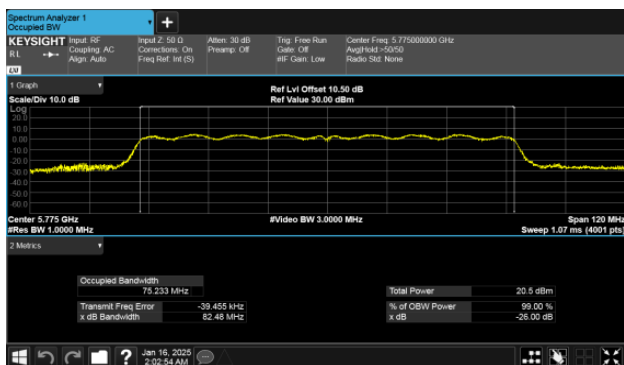
Modulation Type: 802.11ac VHT40 CH151



Modulation Type: 802.11ac VHT40 CH159



Modulation Type: 802.11ac VHT80 CH155





99% Bandwidth

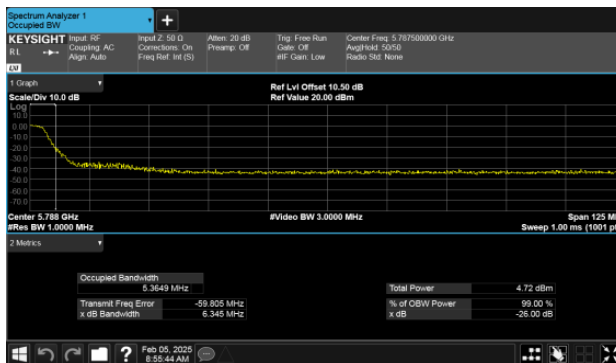
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a CH144

Modulation Type: 802.11ac VHT20 CH144



Modulation Type: 802.11ac VHT40 CH142



Modulation Type: 802.11ac VHT80 CH138





## 9. 26dB Bandwidth & 99% Occupied Bandwidth

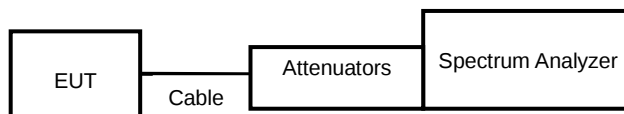
### 9.1. Test Limit

None; for reporting purposes only.

### 9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW  $\geq 3 \times$  RBW, peak detector and max hold.

### 9.3. Test Setup Layout



### 9.4. Test Result and Data

In the 5.2G Band

| Mode       | Channel | Frequency (MHz) | 26dB Bandwidth(MHz) |
|------------|---------|-----------------|---------------------|
| 11a        | 36      | 5180            | 21.25               |
| 11a        | 40      | 5200            | 21.31               |
| 11a        | 48      | 5240            | 21.42               |
| 11ac VHT20 | 36      | 5180            | 21.5                |
| 11ac VHT20 | 40      | 5200            | 22.82               |
| 11ac VHT20 | 48      | 5240            | 22.89               |
| 11ac VHT40 | 38      | 5190            | 44.88               |
| 11ac VHT40 | 46      | 5230            | 51.69               |
| 11ac VHT80 | 42      | 5210            | 81.81               |



## In the 5.3G Band

| Mode       | Channel | Frequency (MHz) | 26dB Bandwidth(MHz) |
|------------|---------|-----------------|---------------------|
| 11a        | 52      | 5260            | 21.44               |
| 11a        | 60      | 5300            | 22.9                |
| 11a        | 64      | 5320            | 22.54               |
| 11ac VHT20 | 52      | 5260            | 27.45               |
| 11ac VHT20 | 60      | 5300            | 27.4                |
| 11ac VHT20 | 64      | 5320            | 26.98               |
| 11ac VHT40 | 54      | 5270            | 57.58               |
| 11ac VHT40 | 62      | 5310            | 48.37               |
| 11ac VHT80 | 58      | 5290            | 81.44               |

## In the 5.5G Band

| Mode       | Channel | Frequency (MHz) | 26dB Bandwidth(MHz) |
|------------|---------|-----------------|---------------------|
| 11a        | 100     | 5500            | 22.91               |
| 11a        | 120     | 5600            | 22.05               |
| 11a        | 140     | 5700            | 21.66               |
| 11ac VHT20 | 100     | 5500            | 27.26               |
| 11ac VHT20 | 120     | 5600            | 23.21               |
| 11ac VHT20 | 140     | 5700            | 21.92               |
| 11ac VHT40 | 102     | 5510            | 51.46               |
| 11ac VHT40 | 118     | 5590            | 57.66               |
| 11ac VHT40 | 134     | 5670            | 57.19               |
| 11ac VHT80 | 106     | 5530            | 91.32               |
| 11ac VHT80 | 122     | 5610            | 90.58               |

| UNII Emission Bandwidth Result (Within 5470-5725MHz band) |                 |                 |                     |
|-----------------------------------------------------------|-----------------|-----------------|---------------------|
| Modulation Type                                           | Data Rate / MCS | Frequency (MHz) | 26dB Bandwidth(MHz) |
| 11a                                                       | 6 Mbps          | 5720            | 15.63               |
| 11ac VHT20                                                | NSS1-MCS0       | 5720            | 15.88               |
| 11ac VHT40                                                | NSS1-MCS0       | 5710            | 36.35               |
| 11ac VHT80                                                | NSS1-MCS0       | 5690            | 75.90               |



## In the 5.2G Band

| Mode       | Channel | Frequency<br>(MHz) | 99% Bandwidth(MHz) |
|------------|---------|--------------------|--------------------|
| 11a        | 36      | 5180               | 16.76              |
| 11a        | 40      | 5200               | 16.81              |
| 11a        | 48      | 5240               | 16.82              |
| 11ac VHT20 | 36      | 5180               | 17.81              |
| 11ac VHT20 | 40      | 5200               | 17.87              |
| 11ac VHT20 | 48      | 5240               | 17.87              |
| 11ac VHT40 | 38      | 5190               | 36.46              |
| 11ac VHT40 | 46      | 5230               | 36.57              |
| 11ac VHT80 | 42      | 5210               | 75.24              |

## In the 5.3G Band

| Mode       | Channel | Frequency<br>(MHz) | 99% Bandwidth(MHz) |
|------------|---------|--------------------|--------------------|
| 11a        | 52      | 5260               | 16.79              |
| 11a        | 60      | 5300               | 16.77              |
| 11a        | 64      | 5320               | 16.72              |
| 11ac VHT20 | 52      | 5260               | 17.94              |
| 11ac VHT20 | 60      | 5300               | 17.91              |
| 11ac VHT20 | 64      | 5320               | 17.87              |
| 11ac VHT40 | 54      | 5270               | 36.68              |
| 11ac VHT40 | 62      | 5310               | 36.45              |
| 11ac VHT80 | 58      | 5290               | 75.17              |



In the 5.5G Band

| Mode       | Channel | Frequency<br>(MHz) | 99% Bandwidth(MHz) |
|------------|---------|--------------------|--------------------|
| 11a        | 100     | 5500               | 16.94              |
| 11a        | 120     | 5600               | 16.86              |
| 11a        | 140     | 5700               | 16.83              |
| 11ac VHT20 | 100     | 5500               | 17.86              |
| 11ac VHT20 | 120     | 5600               | 17.78              |
| 11ac VHT20 | 140     | 5700               | 17.74              |
| 11ac VHT40 | 102     | 5510               | 36.54              |
| 11ac VHT40 | 118     | 5590               | 36.66              |
| 11ac VHT40 | 134     | 5670               | 36.54              |
| 11ac VHT80 | 106     | 5530               | 75.43              |
| 11ac VHT80 | 122     | 5610               | 75.29              |

| UNII Emission Bandwidth Result (Within 5470-5725MHz band) |                    |                    |                    |
|-----------------------------------------------------------|--------------------|--------------------|--------------------|
| Modulation<br>Type                                        | Data Rate /<br>MCS | Frequency<br>(MHz) | 99% Bandwidth(MHz) |
| 11a                                                       | 6 Mbps             | 5720               | 13.31              |
| 11ac VHT20                                                | NSS1-MCS0          | 5720               | 13.84              |
| 11ac VHT40                                                | NSS1-MCS0          | 5710               | 32.95              |
| 11ac VHT80                                                | NSS1-MCS0          | 5690               | 72.13              |



26dB Bandwidth  
Modulation Type: 802.11a CH36



Modulation Type: 802.11a CH40



Modulation Type: 802.11a CH48



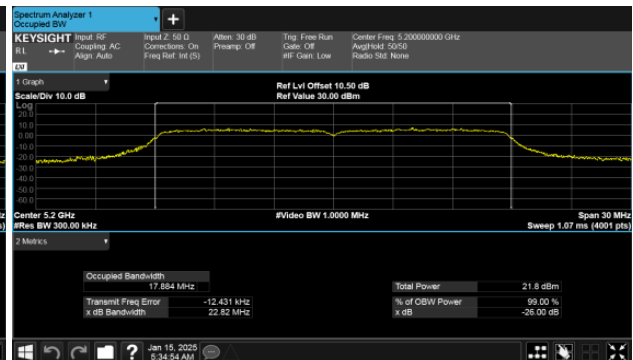


## 26dB Bandwidth

Modulation Type: 802.11ac VHT20 CH36



Modulation Type: 802.11ac VHT20 CH40



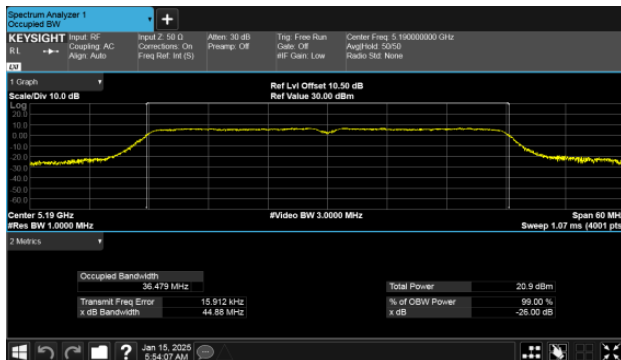
Modulation Type: 802.11ac VHT20 CH48



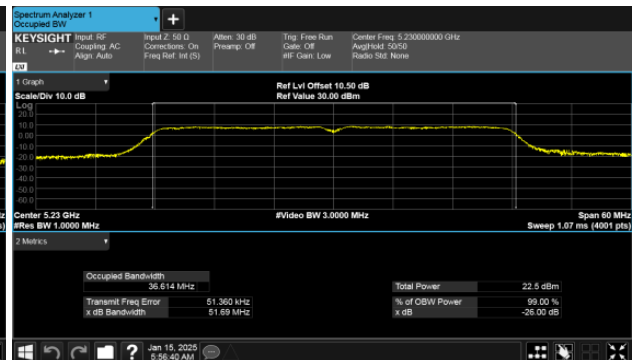


## 26dB Bandwidth

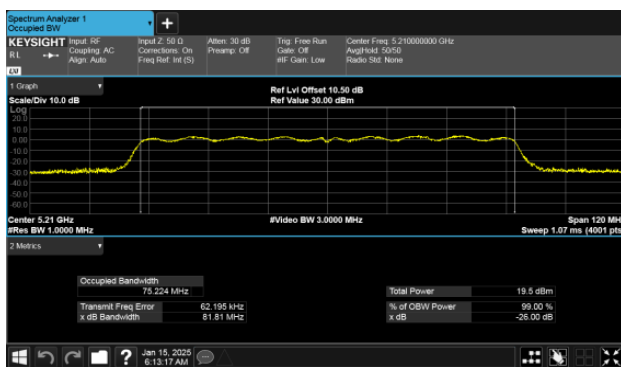
Modulation Type: 802.11ac VHT40 CH38



Modulation Type: 802.11ac VHT40 CH46



Modulation Type: 802.11ac VHT80 CH42





26dB Bandwidth  
Modulation Type: 802.11a CH52



Modulation Type: 802.11a CH60



Modulation Type: 802.11a CH64





## 26dB Bandwidth

Modulation Type: 802.11ac VHT20 CH52



Modulation Type: 802.11ac VHT20 CH60



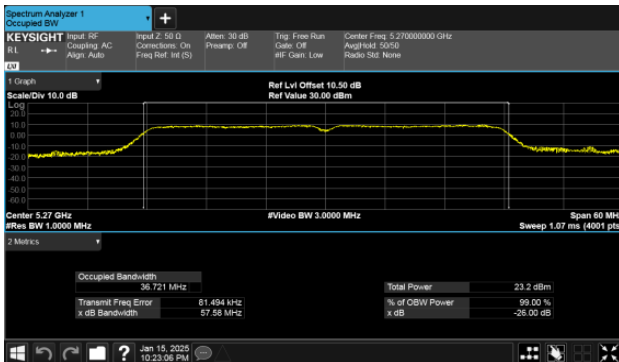
Modulation Type: 802.11ac VHT20 CH64





## 26dB Bandwidth

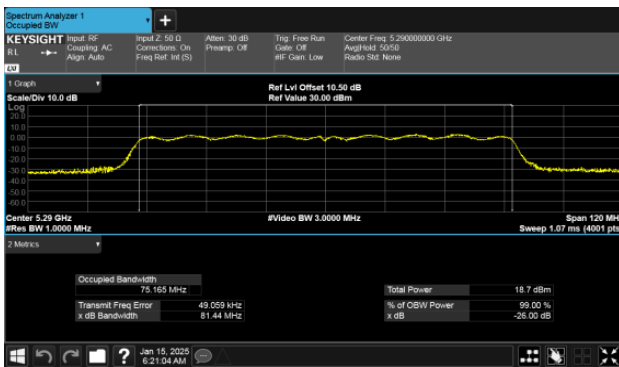
Modulation Type: 802.11ac VHT40 CH54



Modulation Type: 802.11ac VHT40 CH62

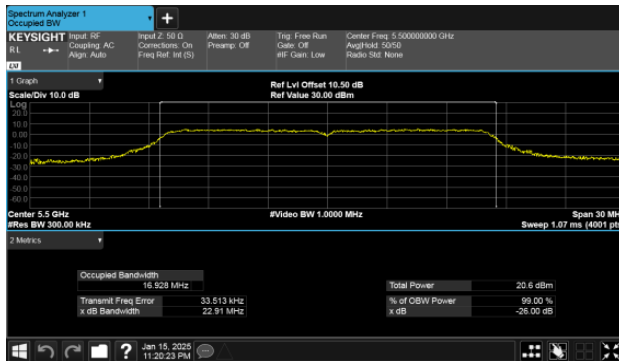


Modulation Type: 802.11ac VHT80 CH58

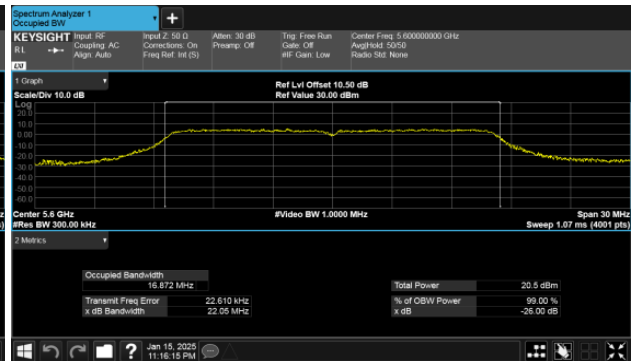




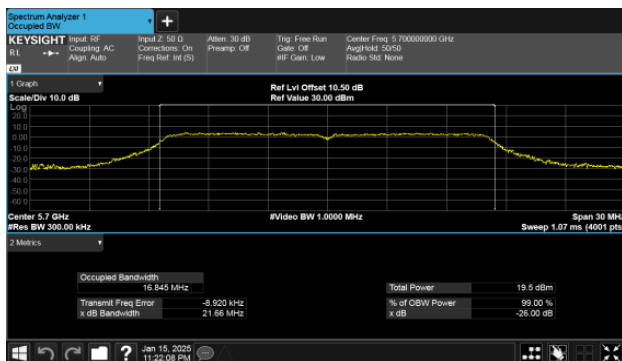
26dB Bandwidth  
Modulation Type: 802.11a CH100



Modulation Type: 802.11a CH120



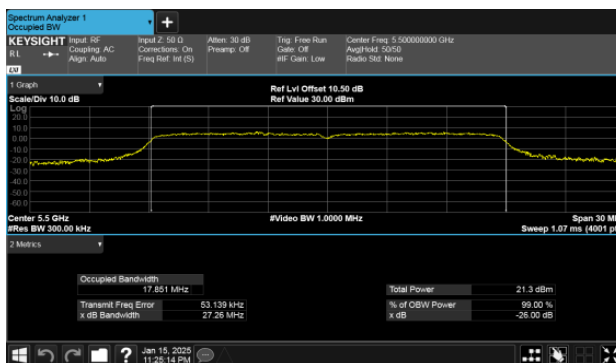
Modulation Type: 802.11a CH140



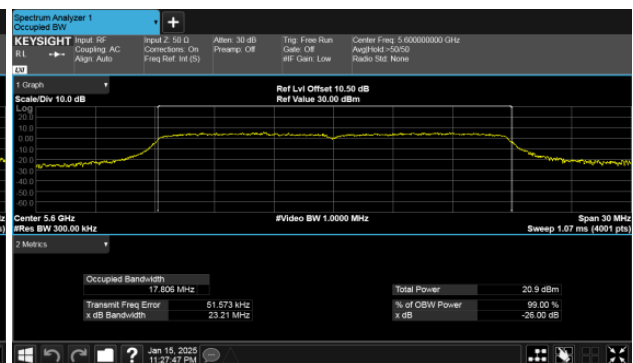


## 26dB Bandwidth

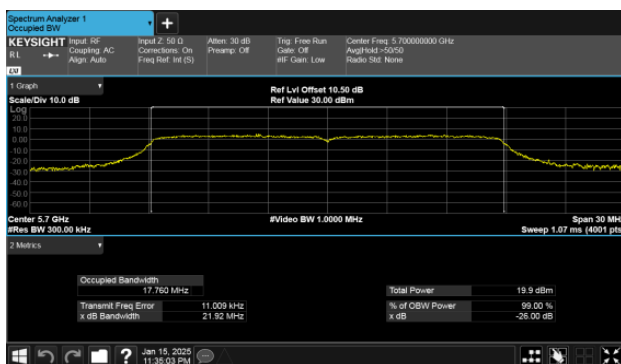
Modulation Type: 802.11ac VHT20 CH100



Modulation Type: 802.11ac VHT20 CH120



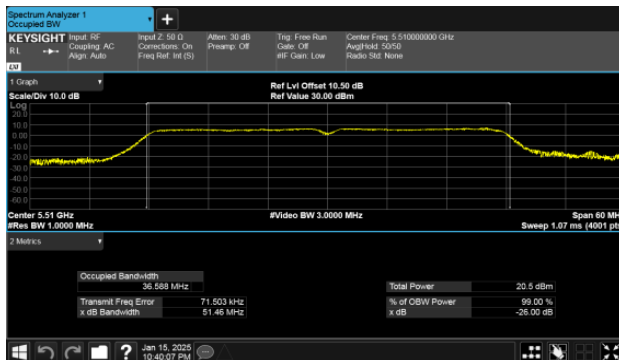
Modulation Type: 802.11ac VHT20 CH140



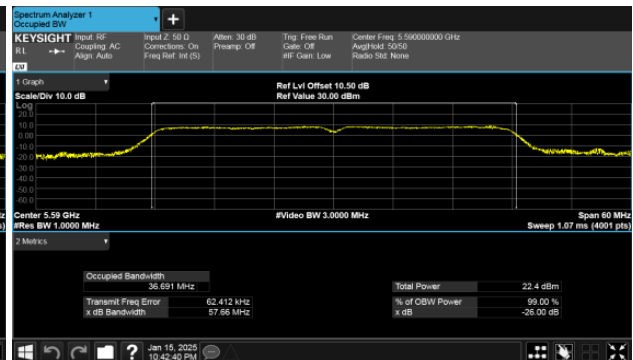


## 26dB Bandwidth

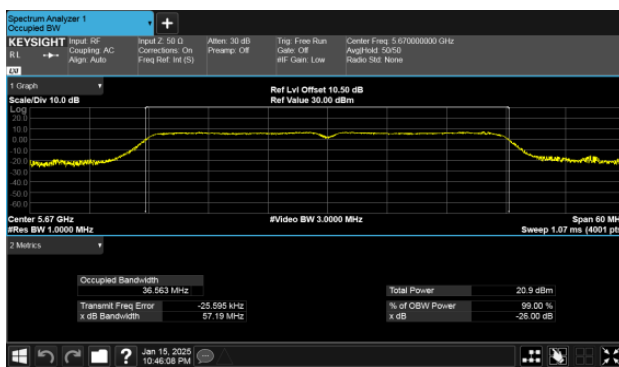
Modulation Type: 802.11ac VHT40 CH102



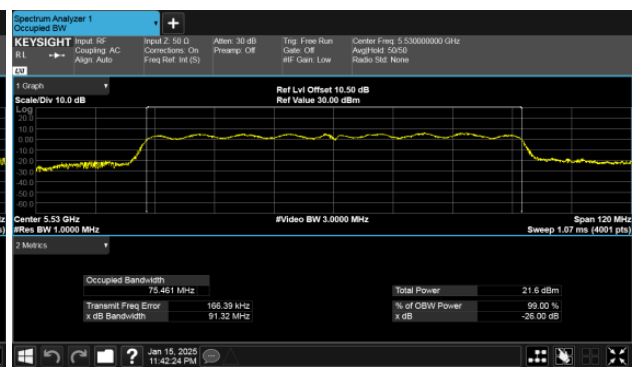
Modulation Type: 802.11ac VHT40 CH118



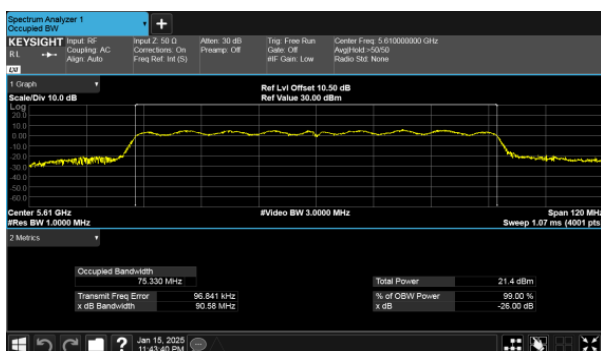
Modulation Type: 802.11ac VHT40 CH134



Modulation Type: 802.11ac VHT80 CH106



Modulation Type: 802.11ac VHT80 CH122



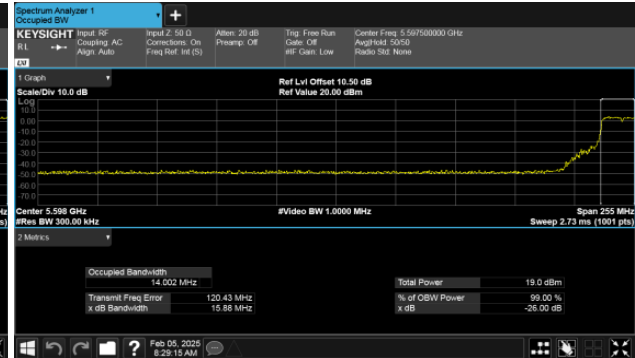
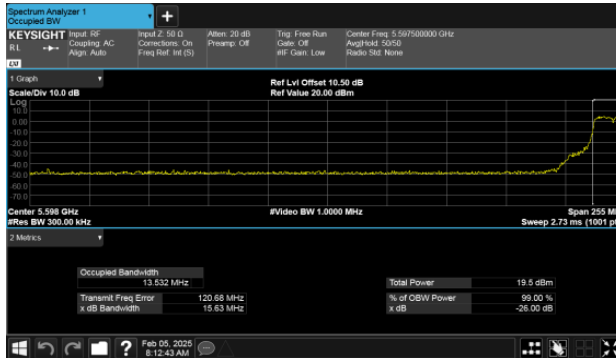


26dB Bandwidth

Within 5470-5725MHz Band, Straddle Channel

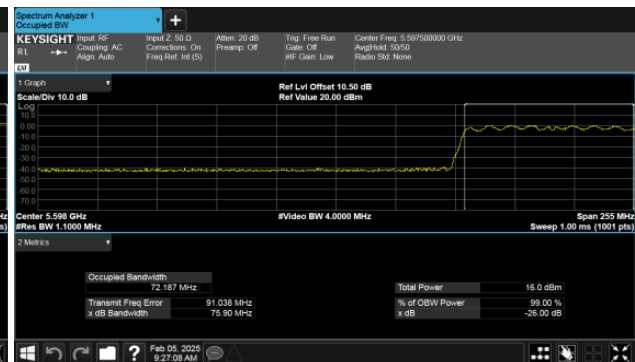
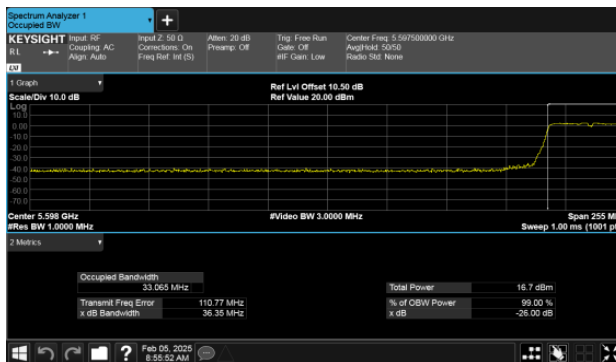
Modulation Type: 802.11a CH144

Modulation Type: 802.11ac VHT20 CH144



Modulation Type: 802.11ac VHT40 CH142

Modulation Type: 802.11ac VHT80 CH138





99% Bandwidth  
Modulation Type: 802.11a CH36



Modulation Type: 802.11a CH40



Modulation Type: 802.11a CH48





## 99% Bandwidth

Modulation Type: 802.11ac VHT20 CH36



Modulation Type: 802.11ac VHT20 CH40



Modulation Type: 802.11ac VHT20 CH48



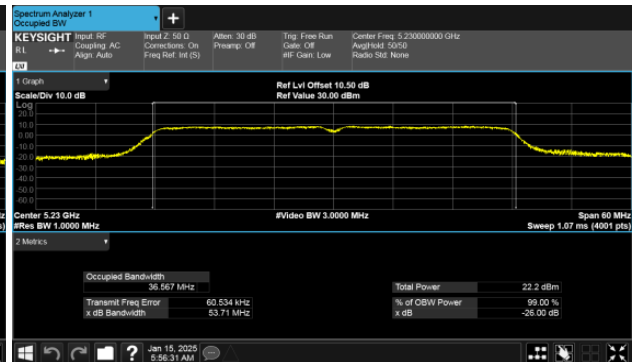


## 99% Bandwidth

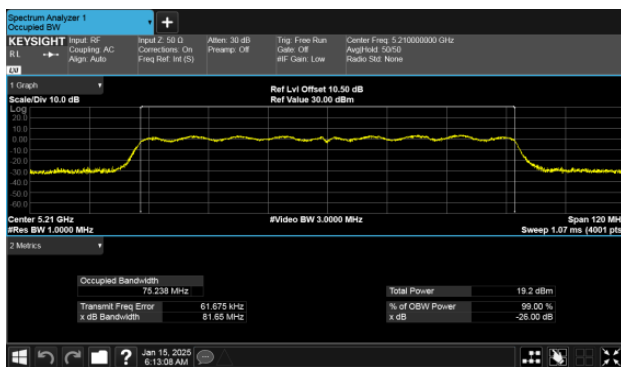
Modulation Type: 802.11ac VHT40 CH38



Modulation Type: 802.11ac VHT40 CH46



Modulation Type: 802.11ac VHT80 CH42





99% Bandwidth  
Modulation Type: 802.11a CH52



Modulation Type: 802.11a CH60



Modulation Type: 802.11a CH64





## 99% Bandwidth

Modulation Type: 802.11ac VHT20 CH52



Modulation Type: 802.11ac VHT20 CH60



Modulation Type: 802.11ac VHT20 CH64



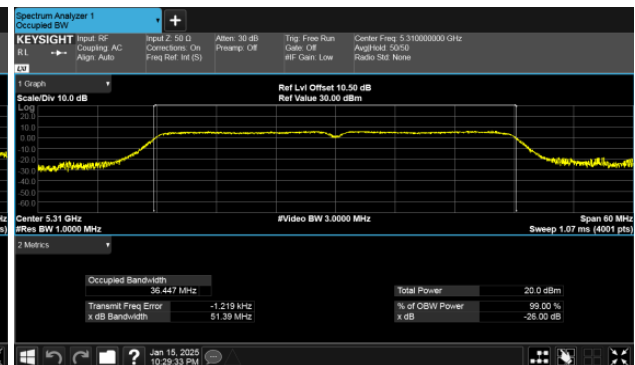


## 99% Bandwidth

Modulation Type: 802.11ac VHT40 CH54



Modulation Type: 802.11ac VHT40 CH62



Modulation Type: 802.11ac VHT80 CH58

