



## FCC TEST REPORT

**FCC ID: 2A6CJ-BDX4UB**

On Behalf of

**BirdDog Australia Pty Ltd**

**X4 Ultra**

**Model No.: BDX4UB, BDX4UW**

Prepared for : BirdDog Australia Pty Ltd  
Address : Lvl 4, 1-9 Sackville St Collingwood, VIC, 3066, Australia

Prepared By : Shenzhen PSI Testing Co., Ltd.  
1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West  
Address : Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2411066-C02-R02  
Date of Receipt : November 15, 2024  
Date of Test : November 15- December 29, 2024  
Date of Report : December 29, 2024  
Version Number : V0

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## TEST REPORT DECLARATION

Applicant : BirdDog Australia Pty Ltd  
Address : Lvl 4, 1-9 Sackville St Collingwood, VIC, 3066, Australia  
Manufacturer : BirdDog Australia Pty Ltd  
Address : Lvl 4, 1-9 Sackville St Collingwood, VIC, 3066, Australia  
EUT Description : X4 Ultra  
(A) Model No. : BDX4UB, BDX4UW  
(B) Trademark : N/A

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart E**

**RSS-247 Issue 2, ANSI C63.4:2014, ANSI C63.10:2013**

**Test Result: PASS**

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E&RSS-247 limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Jensen Wang  
Test Engineer

*Jensen Wang*

Approved by (name + signature).....:

Simple Guan  
Project Manager

*Simple Guan*

Date of issue.....:

December 29, 2024

Revision History

| Revision | Issue Date        | Revisions              | Revised By  |
|----------|-------------------|------------------------|-------------|
| V0       | December 29, 2024 | Initial released Issue | Jensen Wang |



# 1 Test Summary

| Test Item                        | Section in CFR 47                                                               | Result |
|----------------------------------|---------------------------------------------------------------------------------|--------|
| Antenna requirement              | Section 15.203 Section 7.1.4<br>RSS-Gen Issue 5                                 | PASS   |
| AC Power Line Conducted Emission | Section 15.207 Section 7.2.4<br>RSS-GEN(8.8), ANSI C63.10                       | PASS   |
| occupied bandwidth               | Section 15.407 (e)                                                              | PASS   |
| Peak Transmit Power              | Section 15.407(a), RSS-247 5.4(2)                                               | PASS   |
| Power Spectral Density           | Section 15.407(a), RSS-247 5.2(2)                                               | PASS   |
| Undesirable Emission             | Section 15.407(b), RSS-247 5.5                                                  | PASS   |
| Radiated Emission                | Section 15.407(b)&15.209 Section 5.5<br>RSS-Gen(8.9), RSS-247(5.5), ANSI C63.10 | PASS   |
| Band Edge                        | 15.205, RSS-247 Issue 2, ANSI C63.10                                            | PASS   |
| Frequency Stability              | 15.407(f), RSS-GEN(6.11)                                                        | PASS   |

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.
4. Measurement-method usage KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

## 1.1 Measurement Uncertainty

| Item                                                                      | Uncertainty         |
|---------------------------------------------------------------------------|---------------------|
| Uncertainty for Power Line Conducted Emissions Test                       | 2.17dB              |
| Uncertainty for Radiation Emission test in 3m chamber<br>(below 30MHz)    | 3.5dB               |
| Uncertainty for Radiation Emission test in 3m chamber<br>(30MHz to 1GHz)  | 2.74dB(Polarize: V) |
|                                                                           | 2.76dB(Polarize: H) |
| Uncertainty for Radiation Emission test in 3m chamber<br>(1GHz to 18GHz)  | 4.29dB(Polarize: V) |
|                                                                           | 4.82dB(Polarize: H) |
| Uncertainty for Radiation Emission test in 3m chamber<br>(18GHz to 40GHz) | 4.31dB(Polarize: V) |
|                                                                           | 4.30dB(Polarize: H) |
| Uncertainty for radio frequency                                           | 48.24KHz            |
| Uncertainty for conducted RF Power                                        | 0.41dB              |
| Uncertainty for Power Spectral Density                                    | 0.39 dB             |
| Occupied-Bandwidth                                                        | 968Hz               |
| Conducted-Spurious Emission                                               | 1.26dB              |

## 2 General Information

### 2.1 General Description of EUT

EUT Name : X4 Ultra  
 Model : BDX4UB, BDX4UW  
 Diff : There is no difference between the models except the appearance color. So all the test were performed on the model BDX4UB.  
 Test Voltage : DC 12V from adapter, DC 7.4V from battery

|                        |                                                                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radio Technology       | : 5G WIFI                                                                                                                                                                                                                                                                                                      |
| Operation frequency    | : 802.11a/802.11ac20/802.11n(HT20)/802.11ax20: 5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz<br>802.11ac40/802.11n(HT40)/802.11ax40: 5190-5230MHz, 5270-5310MHz, 5510-5670MHz, 5755-5795MHz<br>802.11ac80/802.11ax80: 5210MHz, 5290MHz, 5530MHz, 5775MHz<br>802.11ac160/802.11ax160: 5250MHz, 5570MHz |
| Channel separation     | : 20MHz for 802.11a/802.11ac20/802.11n(HT20)/802.11ax20<br>40MHz for 802.11ac40/ 802.11n(HT40)/802.11ax40<br>80MHz for 802.11ac80/802.11ax80<br>160MHz for 802.11ac160/802.11ax160                                                                                                                             |
| Modulation technology: | : IEEE 802.11n: OFDM (64QAM,16QAM,QPSK,BPSK)<br>IEEE 802.11a: OFDM (64QAM,16QAM,QPSK,BPSK)<br>IEEE 802.11ac: OFDM (64QAM,16QAM, 256QAM,QPSK,BPSK)<br>IEEE 802.11ax: OFDMA (64QAM,16QAM,QPSK,BPSK,256QAM,1024QAM)                                                                                               |
| Antenna Type           | : External antenna, Maximum Gain is 3.23dBi.                                                                                                                                                                                                                                                                   |
| Software version       | : V1.0                                                                                                                                                                                                                                                                                                         |
| Hardware version       | : V1.0                                                                                                                                                                                                                                                                                                         |
| FVIN                   |                                                                                                                                                                                                                                                                                                                |
| Note                   | : Antenna information is provided by applicant.<br>Testing lab is not responsible for the accuracy of the information.                                                                                                                                                                                         |

## 2.2 Test mode

Transmitting mode      Keep the EUT in transmitting with modulation.  
EUT was test with 99% duty cycle at its maximum power control level.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

## 2.3 Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission  
Registration Number: 916281

September 21, 2023 Certificated by IC  
Registration Number: 31123  
CAB identifier: CN0158

## 2.4 Description of Support Units

Accessories      : AC ADAPTER  
Manufacturer    : Mass Power Electronic Limited  
Model            : S065-A1120500B3  
Rating           : Input: 100-240V~50/60Hz 1.5A  
                     : Output: DC 12.0V/5.0A

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.

## 2.7 Other Information Requested by the Customer

None.

## 2.8 Additional instructions

Software (Used for test) from client

| Channel | Power level |
|---------|-------------|
| Lowest  | Default     |
| Middle  | Default     |
| Highest | Default     |

## 2.9 Test Conditions

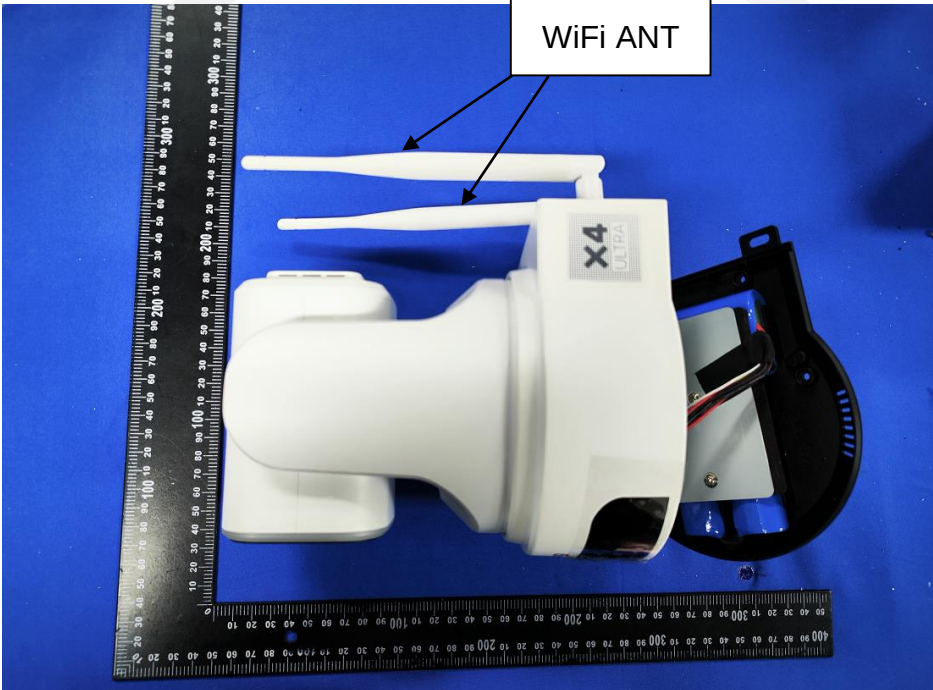
| Items              | Required  | Actual |
|--------------------|-----------|--------|
| Temperature range: | 15-35℃    | 26℃    |
| Humidity range:    | 25-75%    | 54%    |
| Pressure range:    | 86-106kPa | 98kPa  |

### 3 Test Instruments list

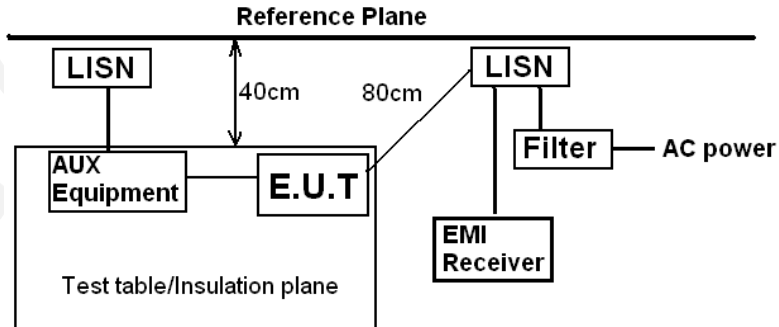
| Item                          | Equipment                 | Manufacturer  | Model No.        | Serial No.              | Firmware Version | Last Cal.  | Cal. Interval |
|-------------------------------|---------------------------|---------------|------------------|-------------------------|------------------|------------|---------------|
| 1.                            | 9*6*6 anechoic chamber    | SKET          | 9*6*6            | N/A                     | /                | 2022.12.20 | 3 Year        |
| 2.                            | Test Receiver             | Rohde&Schwarz | ESCI 7           | 101032/003              | 4.42 SP3         | 2024.12.18 | 1 Year        |
| 3.                            | L.I.S.N.#1                | Rohde&Schwarz | ENV216           | 102282                  | /                | 2024.12.18 | 1 Year        |
| 4.                            | L.I.S.N.#2                | RFT           | NNB111           | 13835240                | /                | 2024.12.18 | 1 Year        |
| 5.                            | Loop Antenna              | Schwarz beck  | FMZB 1519B       | 00128                   | /                | 2025.01.02 | 2 Year        |
| 6.                            | Bilog Antenna             | Schwarz beck  | VULB 9168        | 01448                   | /                | 2025.01.02 | 2 Year        |
| 7.                            | Spectrum Analyzer         | Rohde&Schwarz | FSV-40N          | 101648                  | 3.70             | 2024.12.18 | 1 Year        |
| 8.                            | Horn Antenna              | Schwarz beck  | BBHA 9120 D      | 02706                   | /                | 2025.01.02 | 2 Year        |
| 9.                            | Amplifier                 | SKET          | LAPA_01G18G-45dB | SK2022032901            | /                | 2024.12.18 | 1 Year        |
| 10.                           | Horn Antenna              | Schwarz beck  | BBHA 9170        | 00946                   | /                | 2024.12.31 | 2 Year        |
| 11.                           | Amplifier                 | SKET          | LNPA_0118G-45    | SK2020010801            | /                | 2024.12.18 | 1 Year        |
| 12.                           | RF Power Probe            | Rohde&Schwarz | NRP-Z11          | 1138.3004.02-1111533-Fz | /                | 2024.12.18 | 1 Year        |
| 13.                           | RF Sensor Unit            | Tachoy        | TR1029-2         | 20220428P008            | /                | 2024.12.18 | 1 Year        |
| 14.                           | Spectrum Analyzer         | Agilent       | N9020A           | MY51281067              | A.14.03          | 2024.12.18 | 1 Year        |
| 15.                           | Temp. & Humid Chamber     | Auchno        | 9606             | /                       | /                | 2024.12.18 | 1 Year        |
| 16.                           | Regulated DC Power Supply | Xinouhua      | ADC120V10A       | 202211251638            |                  | 2024.12.18 | 1 Year        |
| For Test Software Information |                           |               |                  |                         |                  |            |               |
| Item                          | Software Name             | Manufacturer  |                  |                         | Version          |            |               |
| RE                            | EZ EMC                    | Farad         |                  |                         | PSI-3A1          |            |               |
| CE                            | EZ EMC                    | Farad         |                  |                         | PSI-3A1          |            |               |
| RF                            | RTS                       | TACHOY        |                  |                         | V1.0.0           |            |               |

## 4 Test results and Measurement Data

### 4.1 Antenna requirement:

| Standard requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FCC Part15 C Section 15.203, RSS-GEN(6.8) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <p>15.203 requirement:</p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> |                                           |
| E.U.T Antenna:                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |
| <p>Internal antenna, Maximum Gain is 3.23dBi, for 5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5845MHz</p>                                                                                                                                                                                                                                                                                                                                                                         |                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |

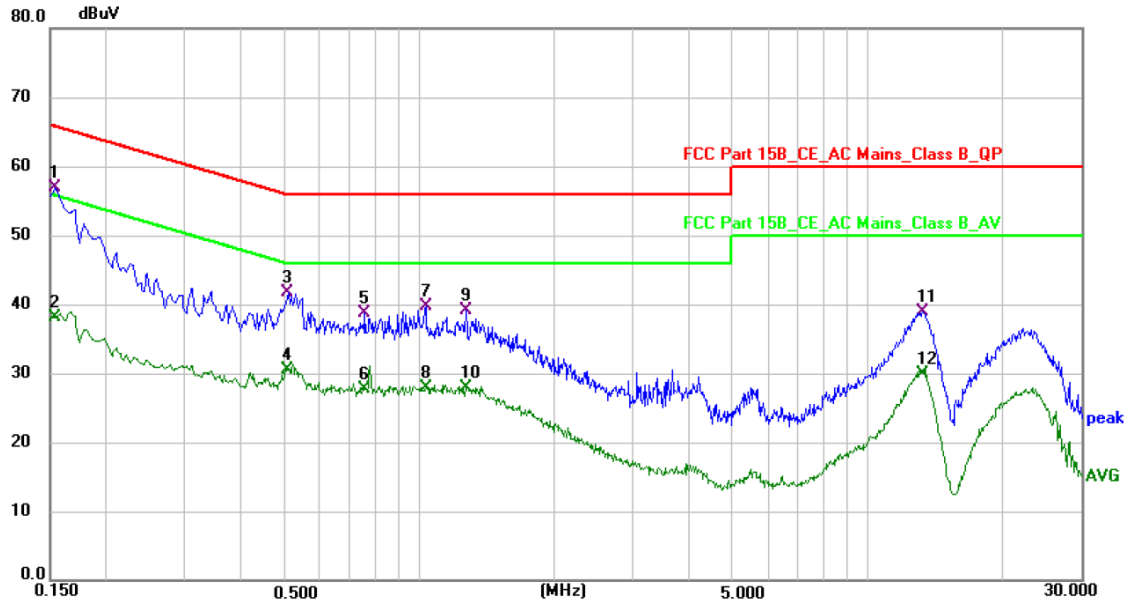
## 4.2 Conducted Emissions

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | FCC Part15 C Section 15.207, RSS-Gen §8.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
| Test Method:                                     | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |
| Test Frequency Range:                            | 150KHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
| Class Severity:                                  | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
| Class B                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
| Receiver setup:                                  | RBW=9KHz, VBW=30KHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limit (dBuV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quasi-peak   | Average   |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 66 to 56*    | 56 to 46* |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56           | 46        |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60           | 50        |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
| Test procedure                                   | The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. |              |           |
| Test setup:                                      |  <p>Remark:<br/> E.U.T: Equipment Under Test<br/> LISN: Line Impedance Stabilization Network<br/> Test table height=0.8m</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |
| Test Instruments:                                | Refer to section 3.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |
| Test mode:                                       | Refer to section 2.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |
| Test results:                                    | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |           |

### Measurement Data

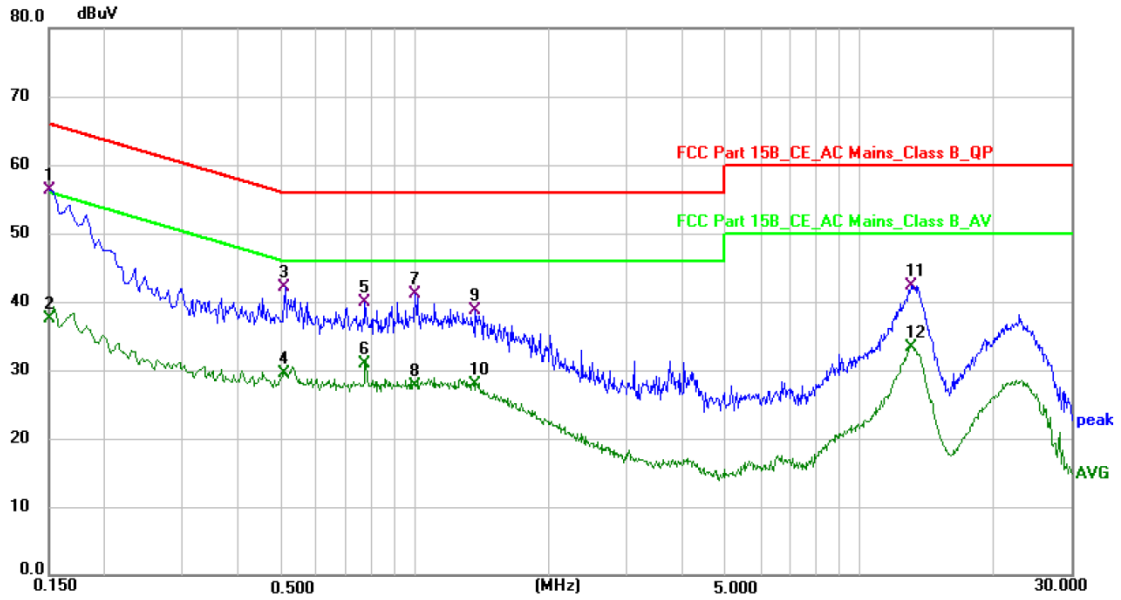
An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

## Line:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1 * | 0.1539          | 47.03          | 9.94        | 56.97        | 65.79        | -8.82       | QP       |
| 2   | 0.1539          | 28.21          | 9.94        | 38.15        | 55.79        | -17.64      | AVG      |
| 3   | 0.5100          | 31.90          | 9.89        | 41.79        | 56.00        | -14.21      | QP       |
| 4   | 0.5100          | 20.70          | 9.89        | 30.59        | 46.00        | -15.41      | AVG      |
| 5   | 0.7580          | 29.20          | 9.43        | 38.63        | 56.00        | -17.37      | QP       |
| 6   | 0.7580          | 18.27          | 9.43        | 27.70        | 46.00        | -18.30      | AVG      |
| 7   | 1.0339          | 30.22          | 9.41        | 39.63        | 56.00        | -16.37      | QP       |
| 8   | 1.0339          | 18.43          | 9.41        | 27.84        | 46.00        | -18.16      | AVG      |
| 9   | 1.2740          | 29.64          | 9.40        | 39.04        | 56.00        | -16.96      | QP       |
| 10  | 1.2740          | 18.47          | 9.40        | 27.87        | 46.00        | -18.13      | AVG      |
| 11  | 13.2780         | 29.27          | 9.55        | 38.82        | 60.00        | -21.18      | QP       |
| 12  | 13.2780         | 20.45          | 9.55        | 30.00        | 50.00        | -20.00      | AVG      |

Note: \*:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

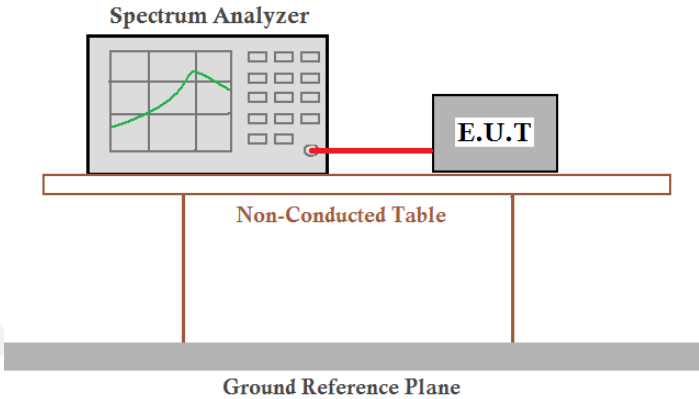
**Neutral:**

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1 * | 0.1500          | 46.60          | 9.77        | 56.37        | 66.00        | -9.63       | QP       |
| 2   | 0.1500          | 27.68          | 9.77        | 37.45        | 56.00        | -18.55      | AVG      |
| 3   | 0.5100          | 32.27          | 9.78        | 42.05        | 56.00        | -13.95      | QP       |
| 4   | 0.5100          | 19.77          | 9.78        | 29.55        | 46.00        | -16.45      | AVG      |
| 5   | 0.7740          | 30.25          | 9.71        | 39.96        | 56.00        | -16.04      | QP       |
| 6   | 0.7740          | 21.25          | 9.71        | 30.96        | 46.00        | -15.04      | AVG      |
| 7   | 1.0020          | 31.52          | 9.51        | 41.03        | 56.00        | -14.97      | QP       |
| 8   | 1.0020          | 18.21          | 9.51        | 27.72        | 46.00        | -18.28      | AVG      |
| 9   | 1.3700          | 29.29          | 9.42        | 38.71        | 56.00        | -17.29      | QP       |
| 10  | 1.3700          | 18.45          | 9.42        | 27.87        | 46.00        | -18.13      | AVG      |
| 11  | 13.0940         | 32.65          | 9.71        | 42.36        | 60.00        | -17.64      | QP       |
| 12  | 13.0940         | 23.69          | 9.71        | 33.40        | 50.00        | -16.60      | AVG      |

Note: \*:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

All modes and channels have been tested and only the A 5180MHz mode with the worst data is listed.

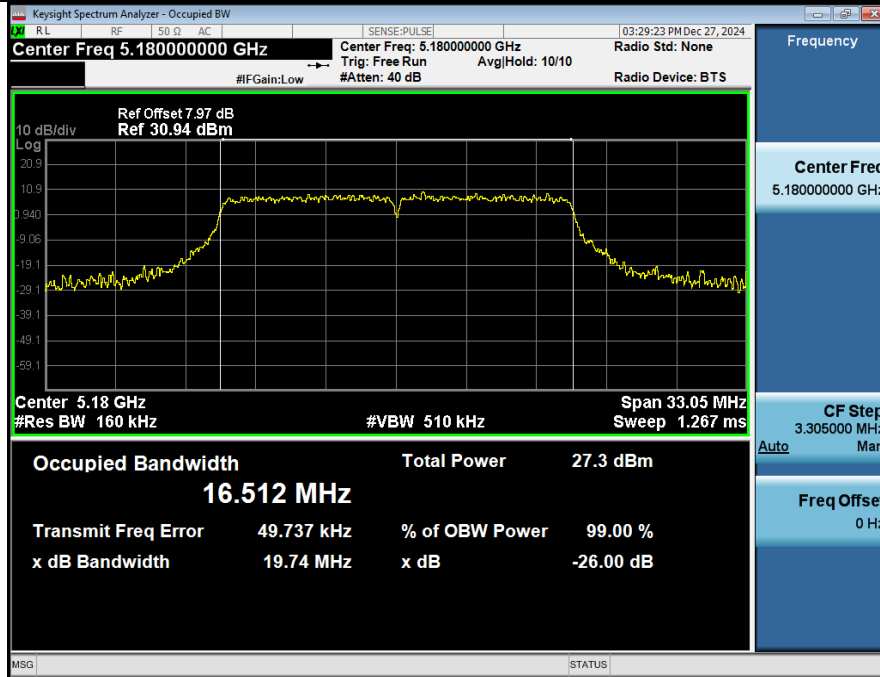
#### 4.3 Emission Bandwidth and 99% Occupied Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407, RSS-Gen §6.7; RSS-247 §6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:      | KDB 789033 D02 General UNII Test Procedures New Rules v02r01                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Limit:            | >500kHz for 6 dB bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a green trace on its screen, is connected to an E.U.T (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T are positioned on a 'Non-Conducted Table'. This table is supported by two vertical legs that rest on a 'Ground Reference Plane', which is represented by a thick grey horizontal bar at the bottom of the setup.</p> |
| Test procedure:   | According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Instruments: | Refer to section 3.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test mode:        | Refer to section 2.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

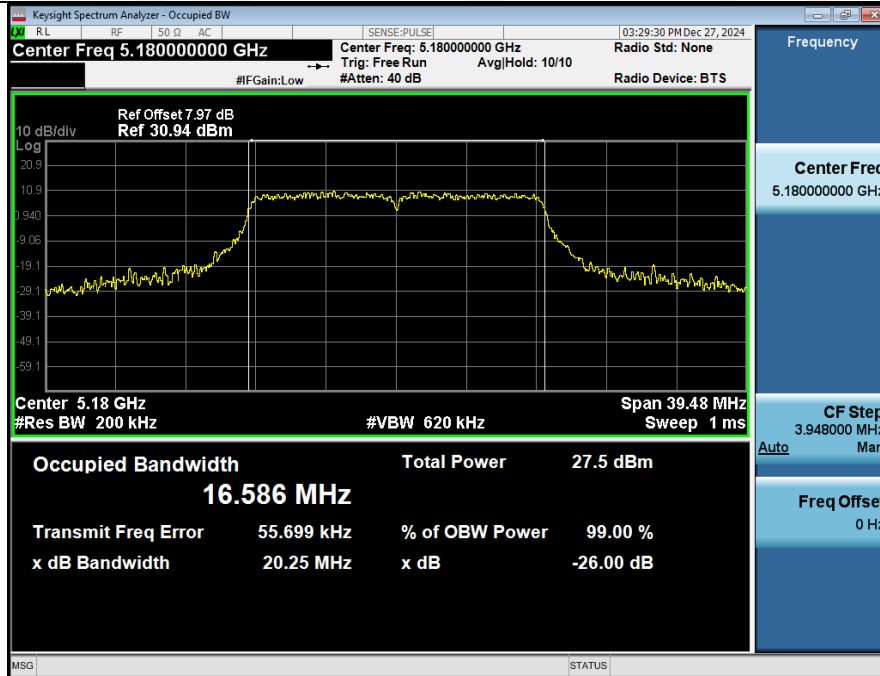
**Measurement Data:****Band 1 (5150-5250 MHz):**

| Condition | Antenna | Modulation      | Frequency(MHz) | 26dB_Emission_Bandwidth(MHz) | Occupied Bandwidth(MHz) |
|-----------|---------|-----------------|----------------|------------------------------|-------------------------|
| NVNT      | ANT1    | 802.11a         | 5180.00        | 20.25                        | 16.51                   |
| NVNT      | ANT2    | 802.11a         | 5180.00        | 20.18                        | 16.50                   |
| NVNT      | ANT1    | 802.11a         | 5200.00        | 20.52                        | 16.48                   |
| NVNT      | ANT2    | 802.11a         | 5200.00        | 20.54                        | 16.48                   |
| NVNT      | ANT1    | 802.11a         | 5240.00        | 21.23                        | 16.54                   |
| NVNT      | ANT2    | 802.11a         | 5240.00        | 20.63                        | 16.56                   |
| NVNT      | ANT1    | 802.11n(HT20)   | 5180.00        | 20.28                        | 16.49                   |
| NVNT      | ANT2    | 802.11n(HT20)   | 5180.00        | 21.12                        | 16.50                   |
| NVNT      | ANT1    | 802.11n(HT20)   | 5200.00        | 20.29                        | 16.49                   |
| NVNT      | ANT2    | 802.11n(HT20)   | 5200.00        | 20.18                        | 16.49                   |
| NVNT      | ANT1    | 802.11n(HT20)   | 5240.00        | 23.72                        | 16.53                   |
| NVNT      | ANT2    | 802.11n(HT20)   | 5240.00        | 21.12                        | 16.54                   |
| NVNT      | ANT1    | 802.11ac(VHT20) | 5180.00        | 20.37                        | 16.50                   |
| NVNT      | ANT2    | 802.11ac(VHT20) | 5180.00        | 20.37                        | 16.47                   |
| NVNT      | ANT1    | 802.11ac(VHT20) | 5200.00        | 20.44                        | 16.50                   |
| NVNT      | ANT2    | 802.11ac(VHT20) | 5200.00        | 20.65                        | 16.53                   |
| NVNT      | ANT1    | 802.11ac(VHT20) | 5240.00        | 24.77                        | 16.53                   |
| NVNT      | ANT2    | 802.11ac(VHT20) | 5240.00        | 20.71                        | 16.56                   |
| NVNT      | ANT1    | 802.11ax(HE20)  | 5180.00        | 20.50                        | 16.50                   |
| NVNT      | ANT2    | 802.11ax(HE20)  | 5180.00        | 20.20                        | 16.51                   |
| NVNT      | ANT1    | 802.11ax(HE20)  | 5200.00        | 20.53                        | 16.49                   |
| NVNT      | ANT2    | 802.11ax(HE20)  | 5200.00        | 20.69                        | 16.52                   |
| NVNT      | ANT1    | 802.11ax(HE20)  | 5240.00        | 23.72                        | 16.59                   |
| NVNT      | ANT2    | 802.11ax(HE20)  | 5240.00        | 20.92                        | 16.53                   |
| NVNT      | ANT1    | 802.11n(HT40)   | 5190.00        | 50.03                        | 36.23                   |
| NVNT      | ANT2    | 802.11n(HT40)   | 5190.00        | 65.19                        | 36.21                   |
| NVNT      | ANT1    | 802.11n(HT40)   | 5230.00        | 40.07                        | 36.27                   |
| NVNT      | ANT2    | 802.11n(HT40)   | 5230.00        | 40.52                        | 36.23                   |
| NVNT      | ANT1    | 802.11ac(VHT40) | 5190.00        | 40.33                        | 36.21                   |
| NVNT      | ANT2    | 802.11ac(VHT40) | 5190.00        | 40.57                        | 36.19                   |
| NVNT      | ANT1    | 802.11ac(VHT40) | 5230.00        | 40.15                        | 36.24                   |
| NVNT      | ANT2    | 802.11ac(VHT40) | 5230.00        | 40.52                        | 36.26                   |
| NVNT      | ANT1    | 802.11ax(HE40)  | 5190.00        | 40.51                        | 36.18                   |
| NVNT      | ANT2    | 802.11ax(HE40)  | 5190.00        | 40.01                        | 36.27                   |
| NVNT      | ANT1    | 802.11ax(HE40)  | 5230.00        | 41.87                        | 36.25                   |
| NVNT      | ANT2    | 802.11ax(HE40)  | 5230.00        | 40.12                        | 36.22                   |
| NVNT      | ANT1    | 802.11ac(VHT80) | 5210.00        | 82.88                        | 75.84                   |
| NVNT      | ANT2    | 802.11ac(VHT80) | 5210.00        | 81.72                        | 75.74                   |
| NVNT      | ANT1    | 802.11ax(HE80)  | 5210.00        | 82.12                        | 75.85                   |
| NVNT      | ANT2    | 802.11ax(HE80)  | 5210.00        | 82.10                        | 75.79                   |

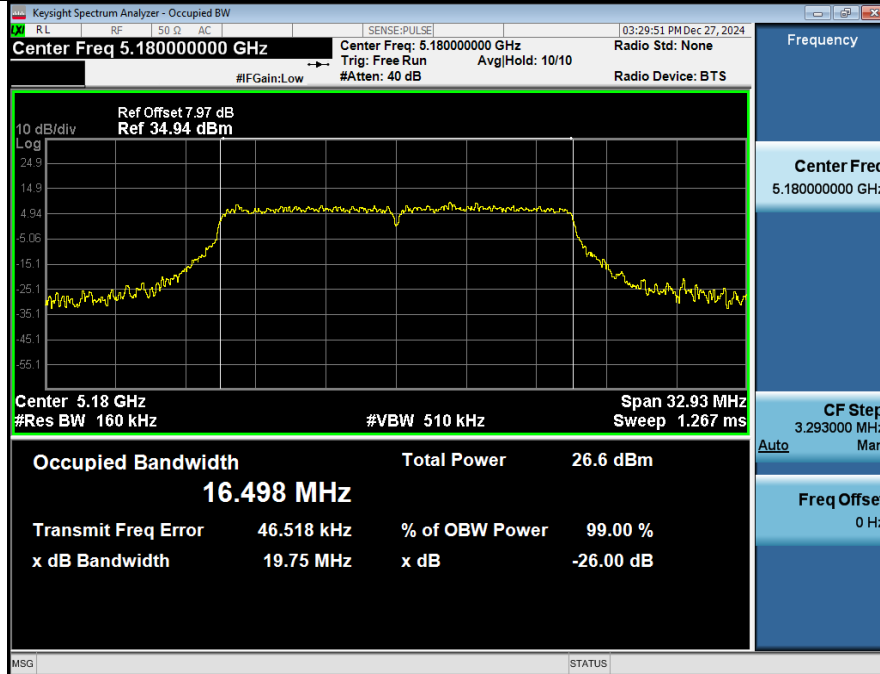
## 99%\_OCB\_NVNT\_ANT1\_802\_11a\_5180



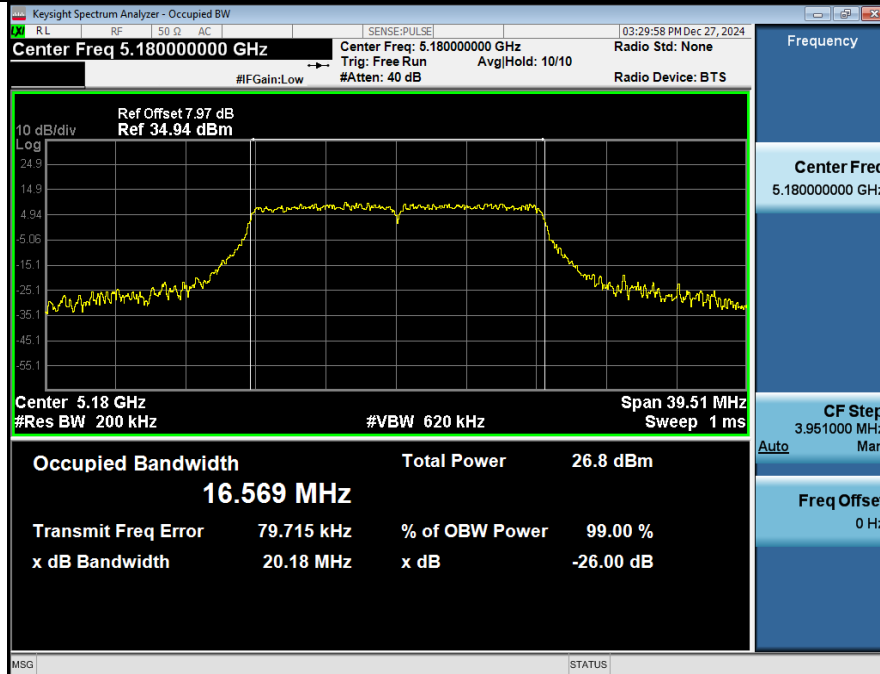
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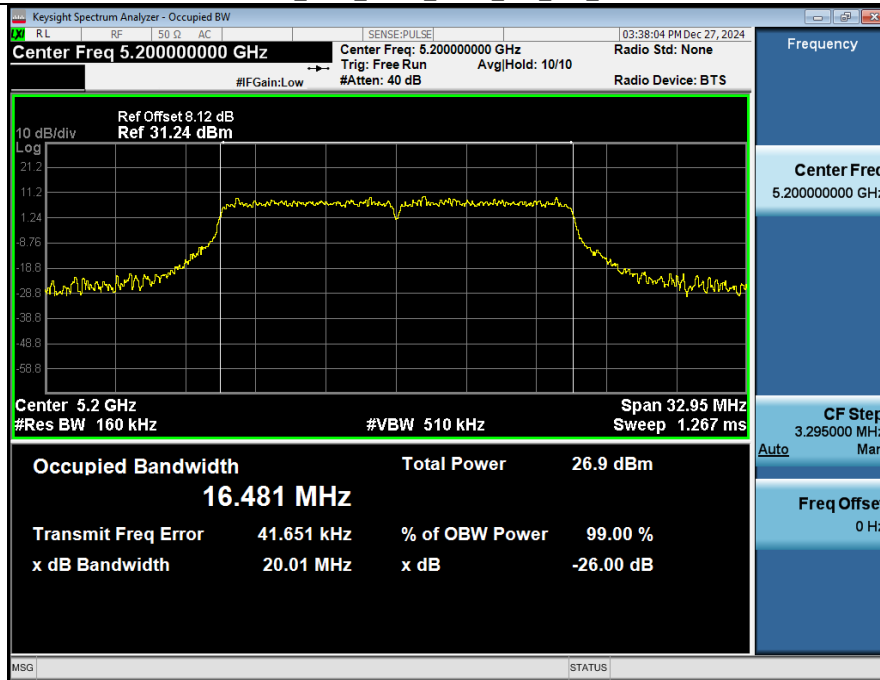
## 99%\_OCB\_NVNT\_ANT2\_802\_11a\_5180



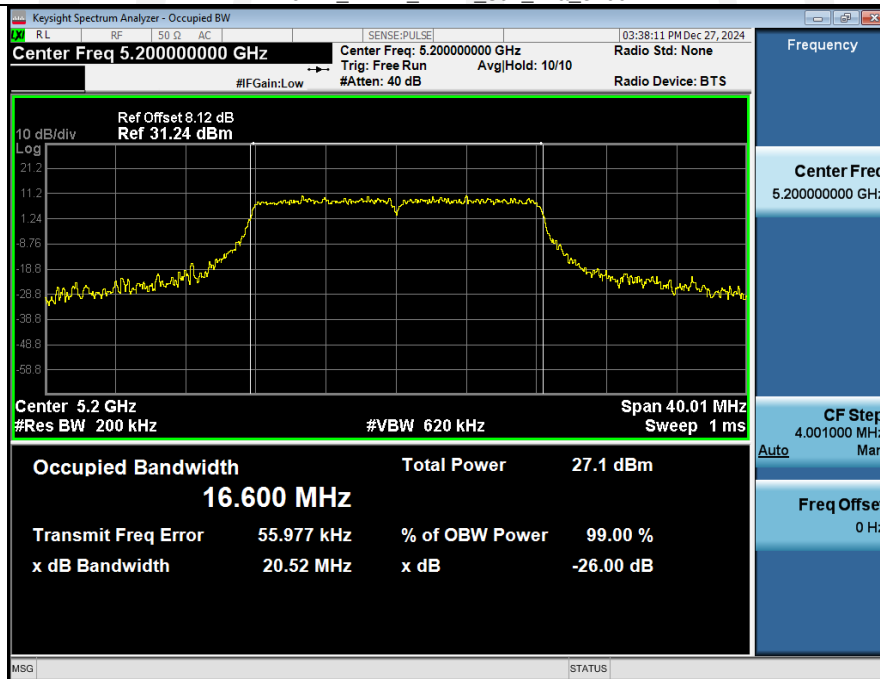
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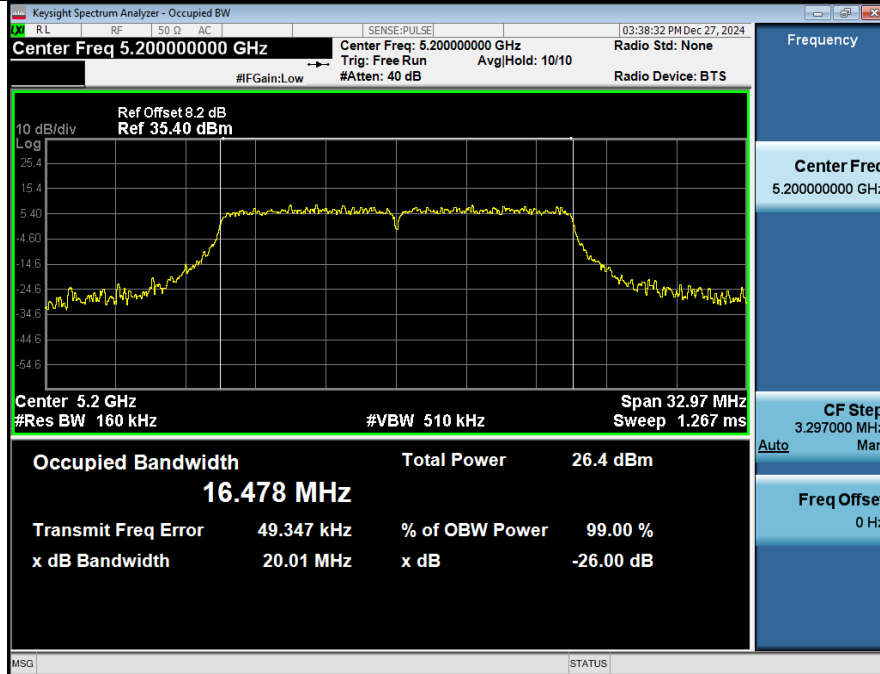
## 99%\_OCB\_NVNT\_ANT1\_802\_11a\_5200



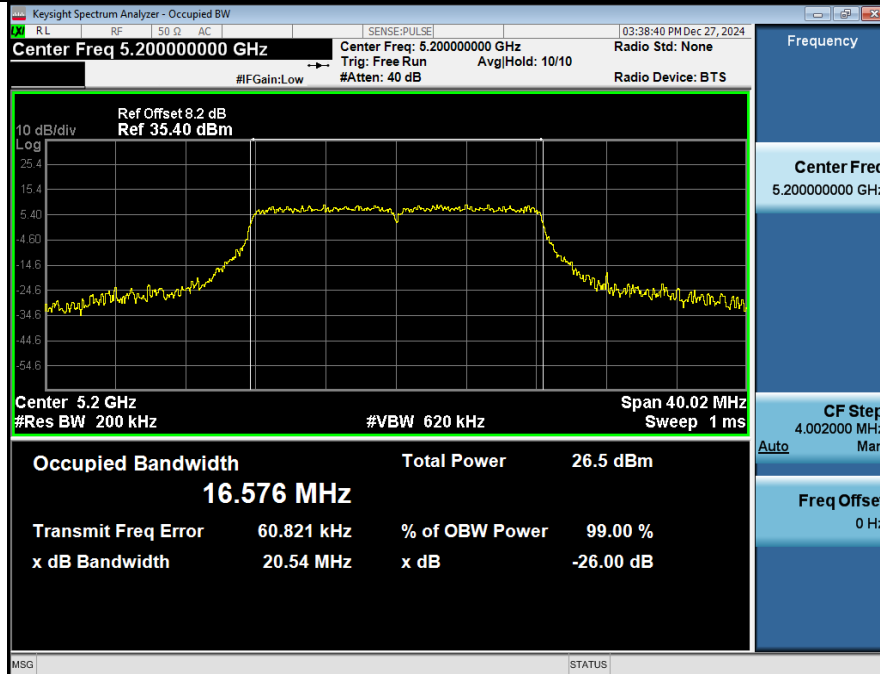
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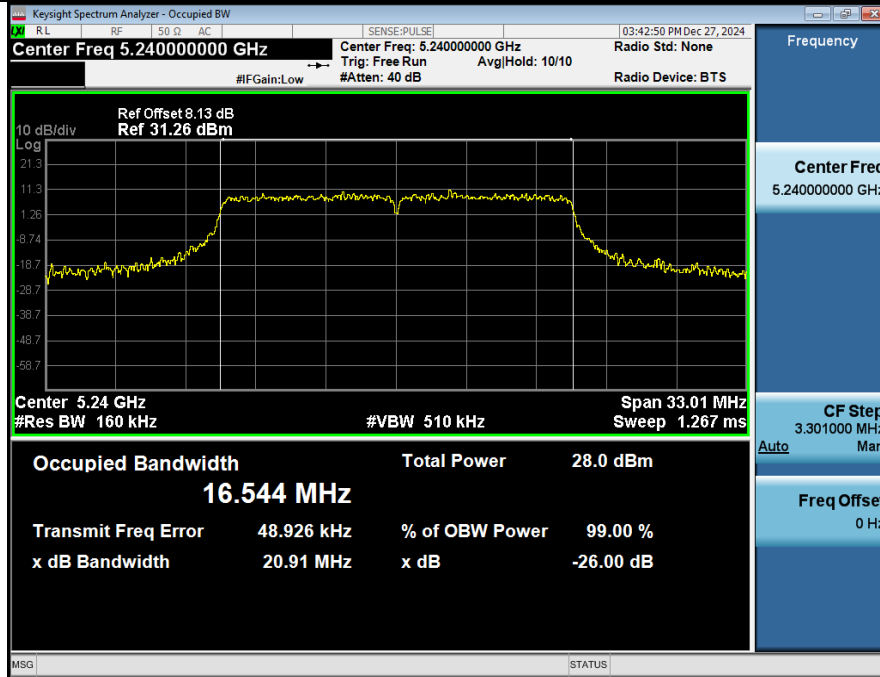
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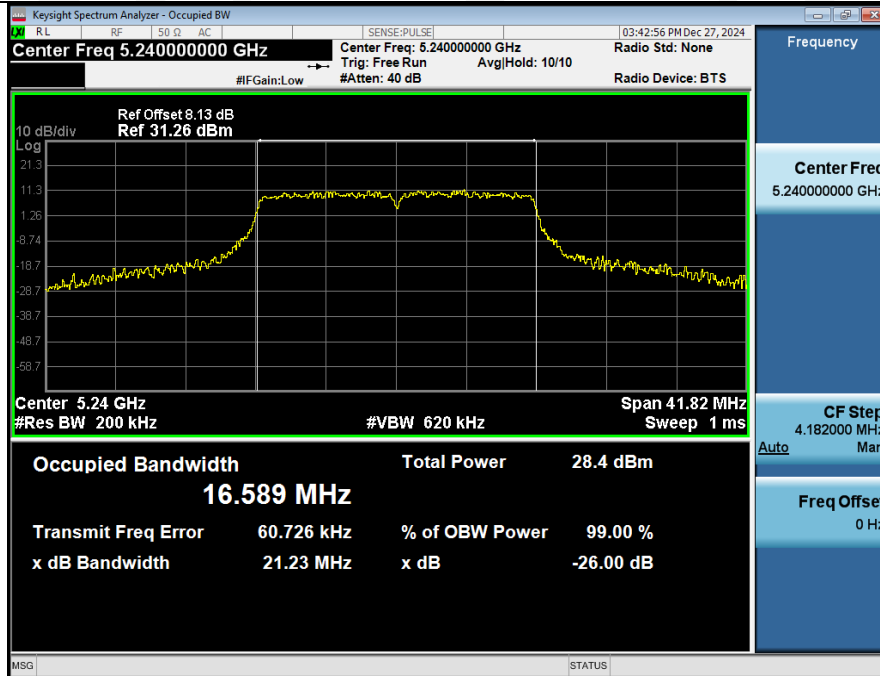
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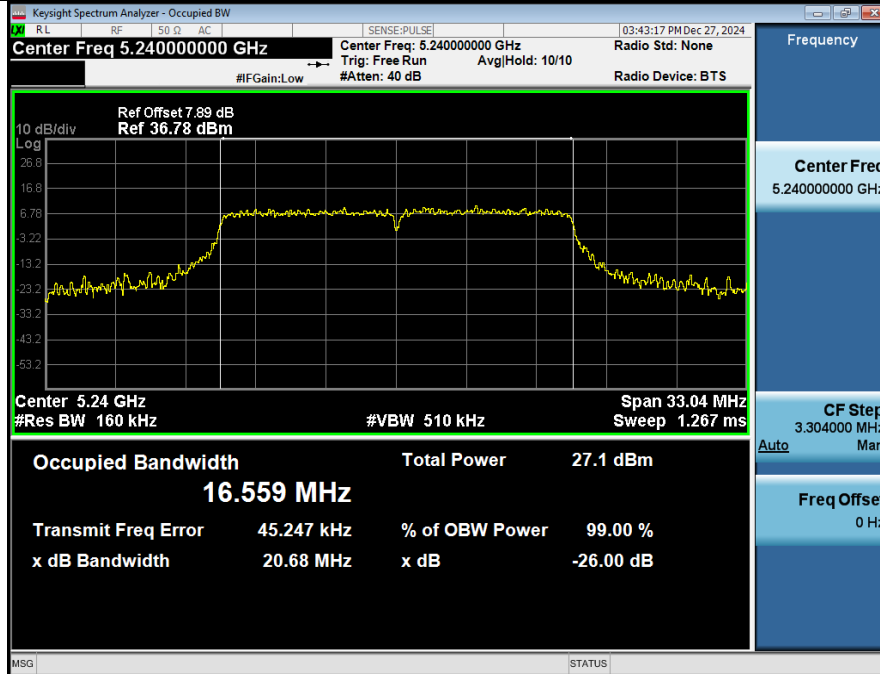
## 99%\_OCB\_NVNT\_ANT1\_802\_11a\_5240



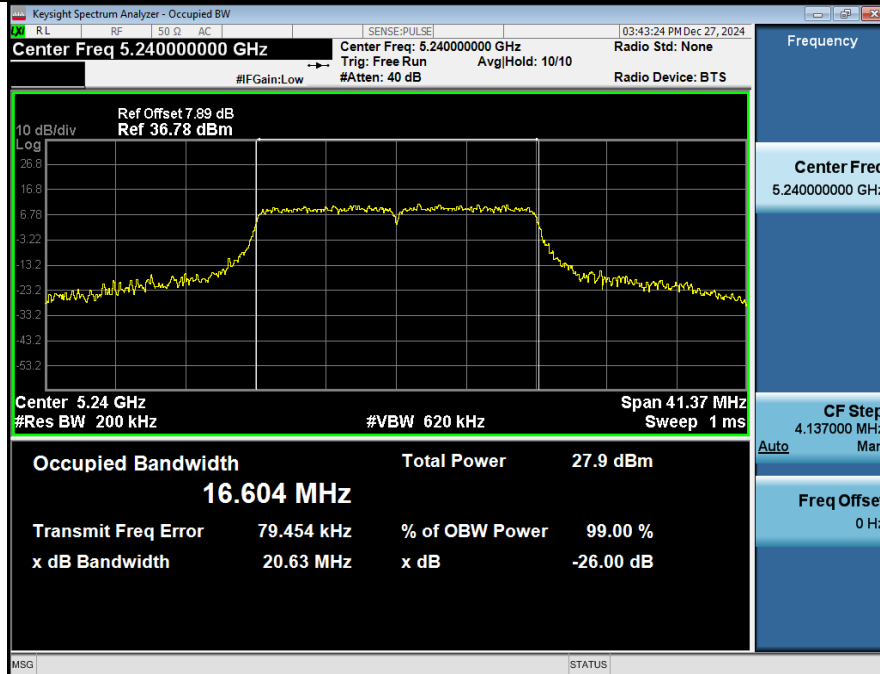
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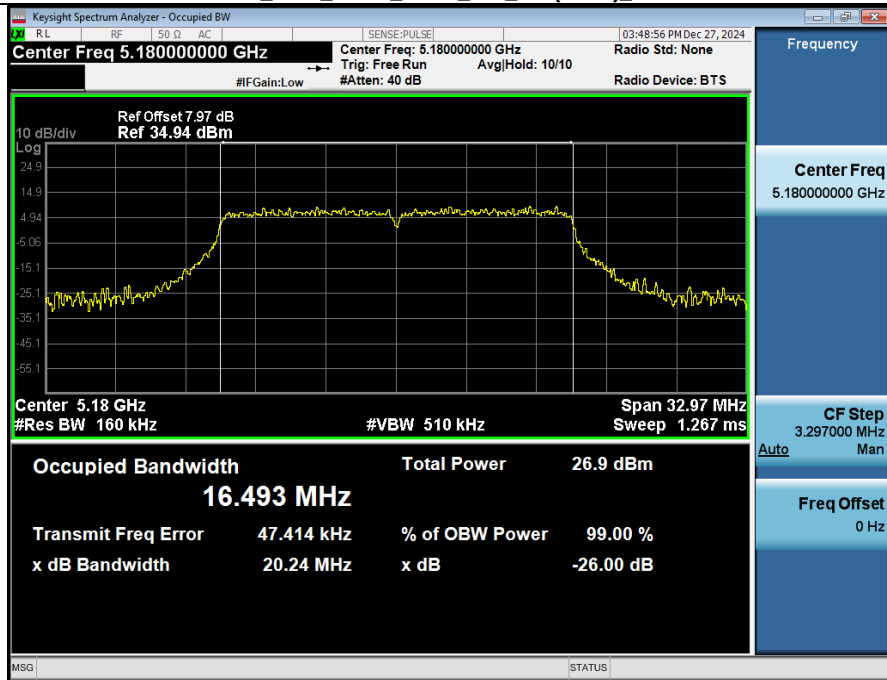
## 99%\_OCB\_NVNT\_ANT2\_802\_11a\_5240



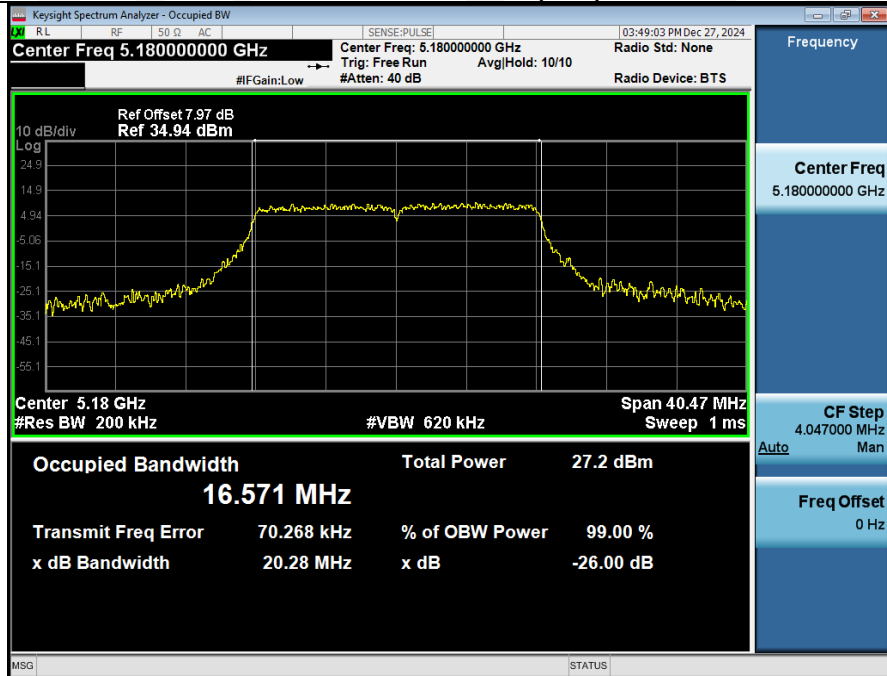
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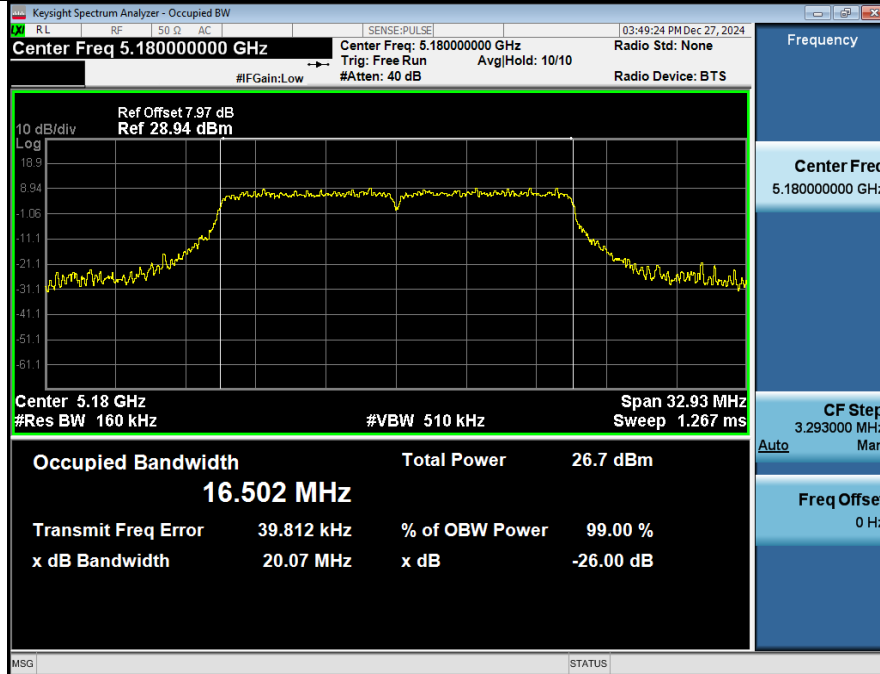
## 99%\_OCB\_NVNT\_ANT1\_802\_11n(HT20)\_5180



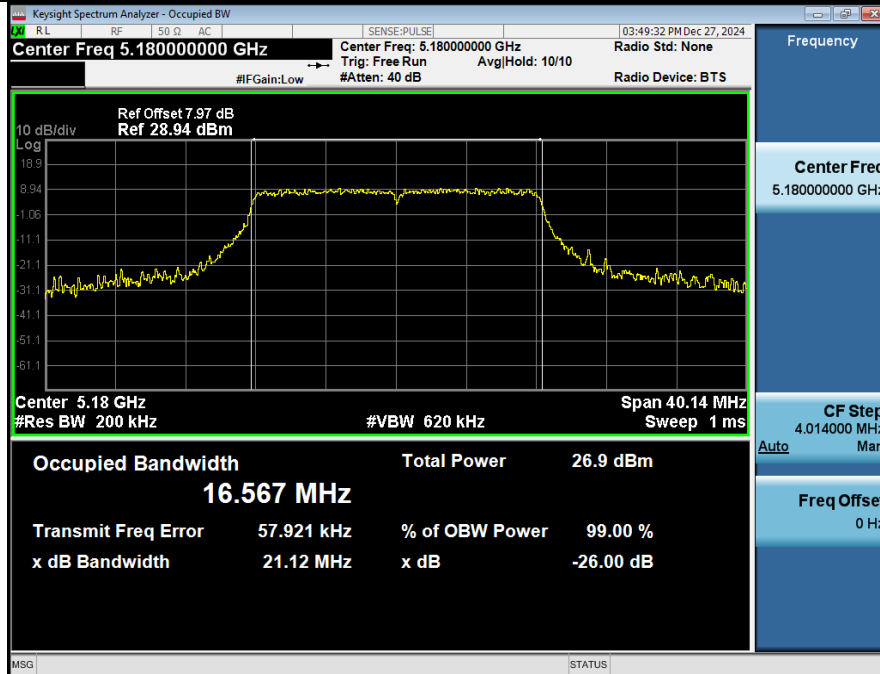
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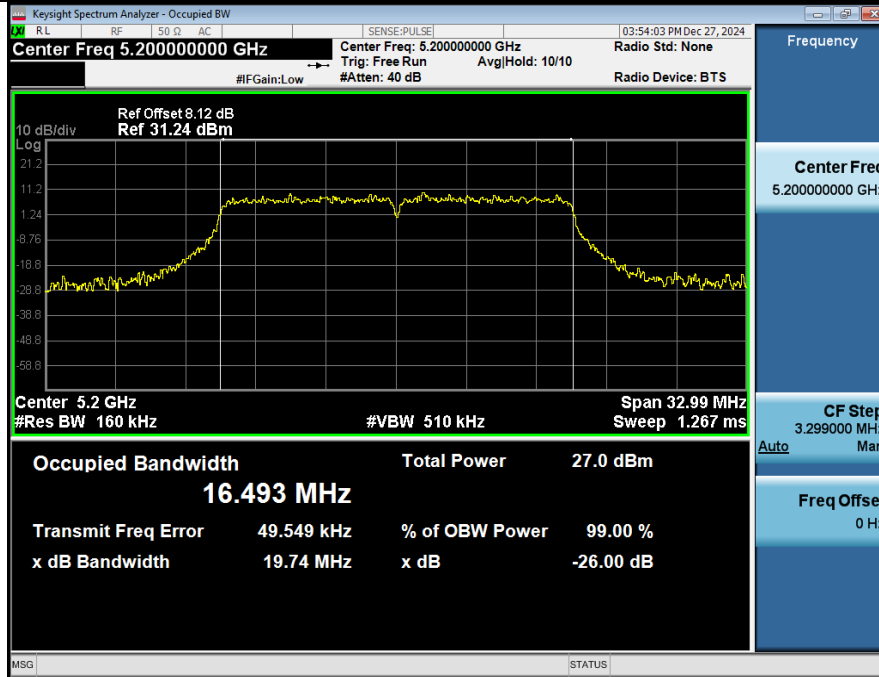
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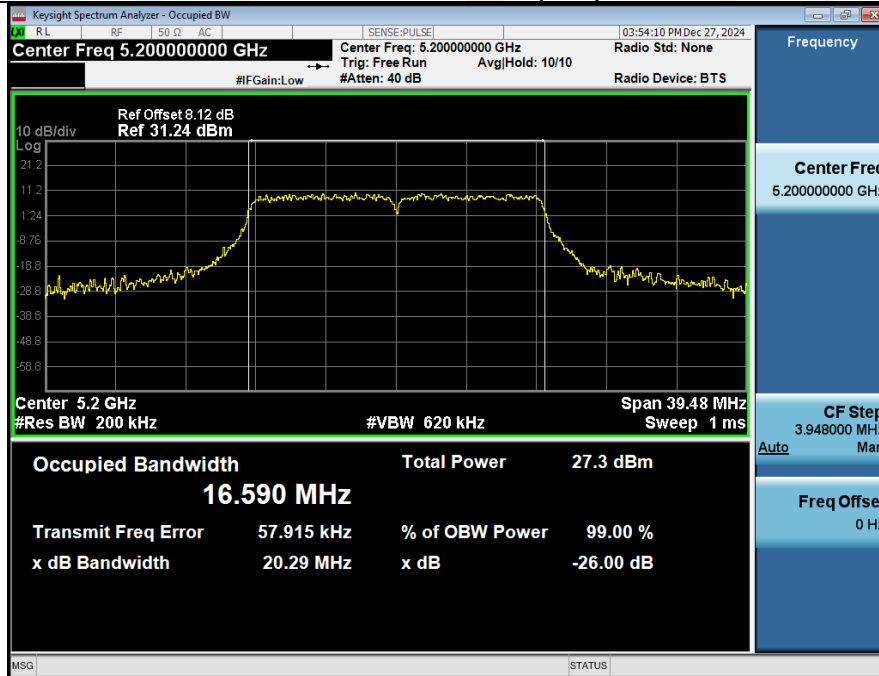
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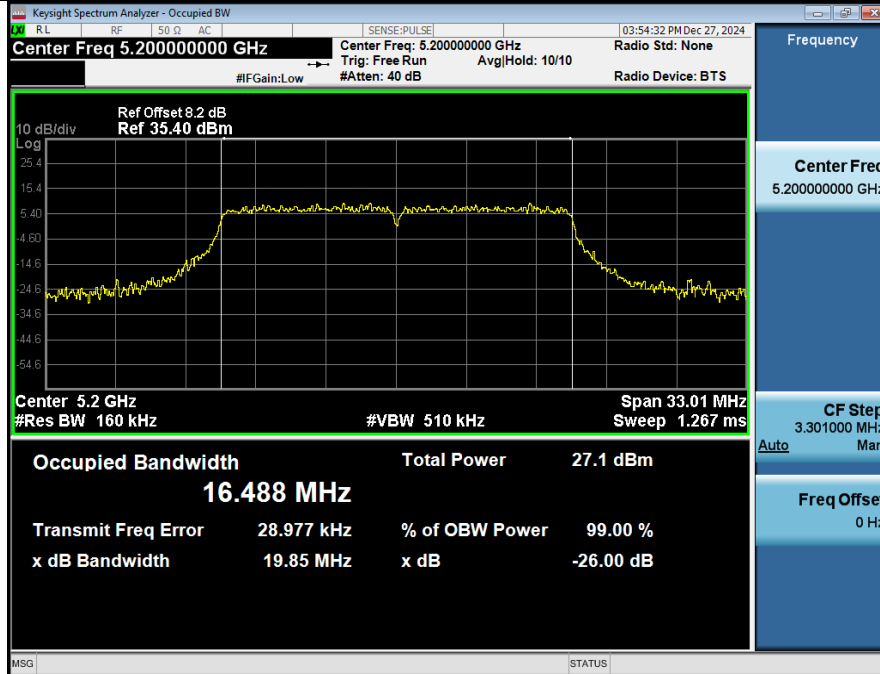
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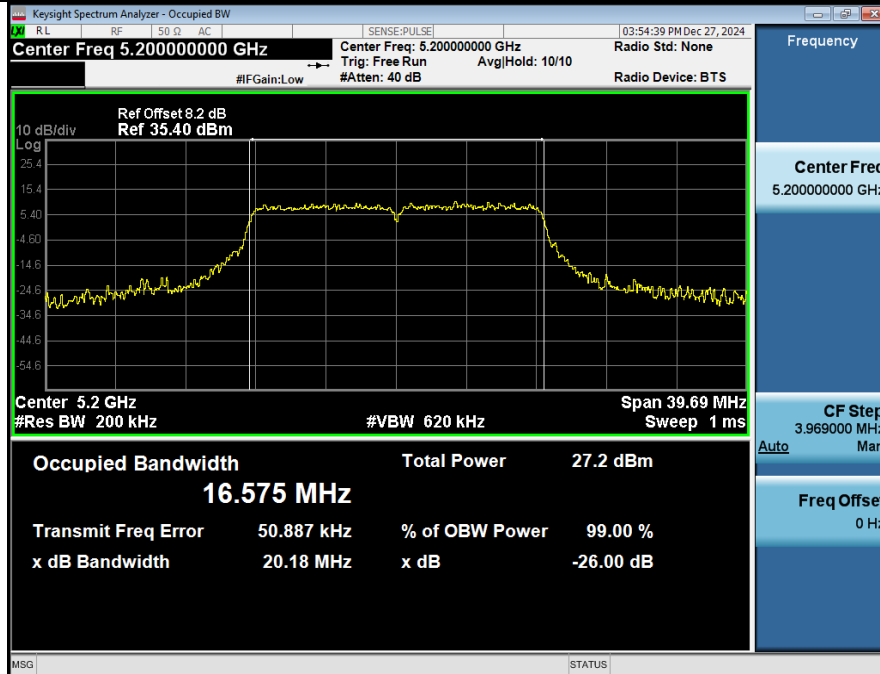
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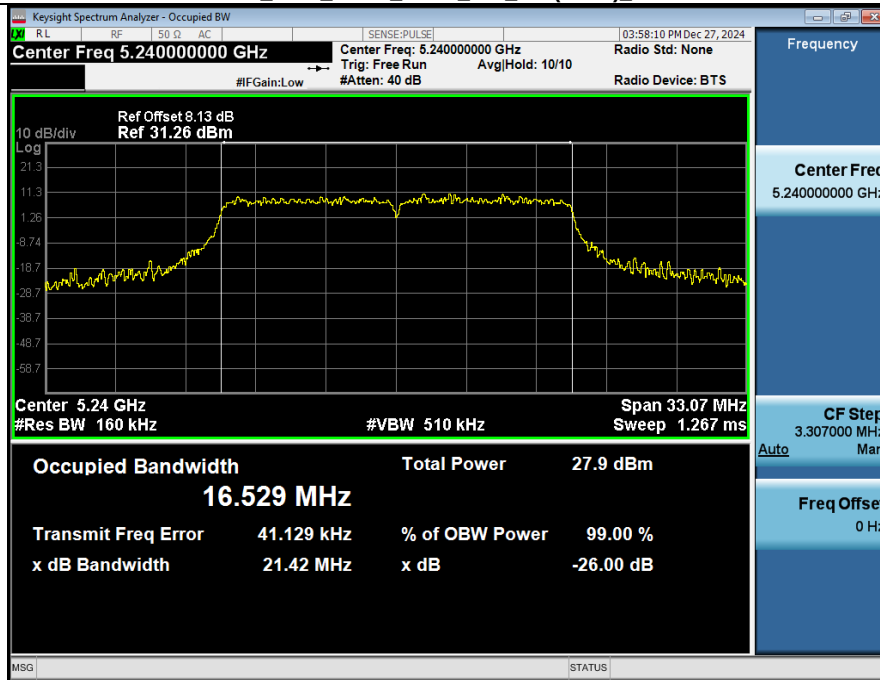
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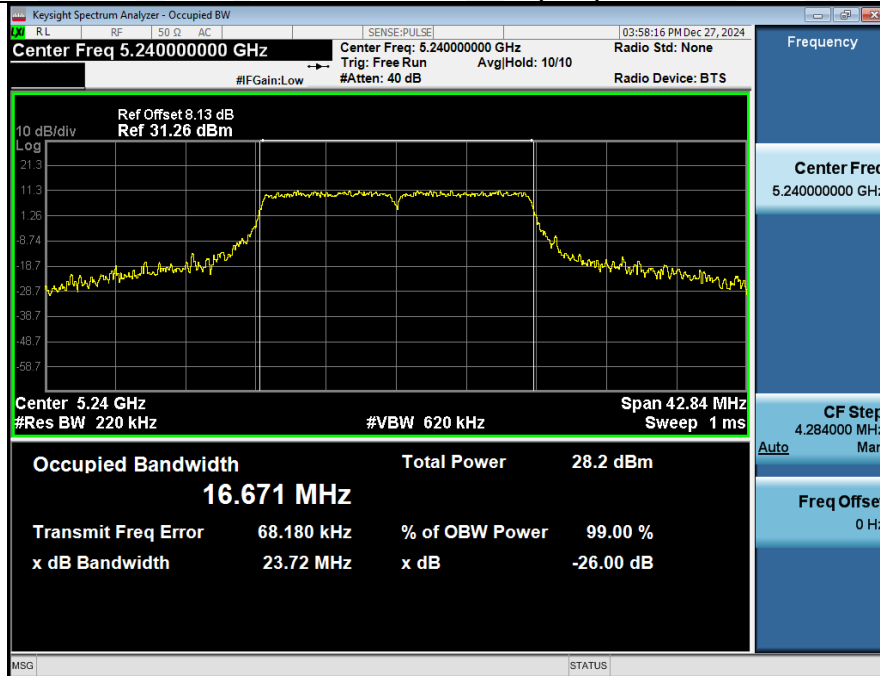
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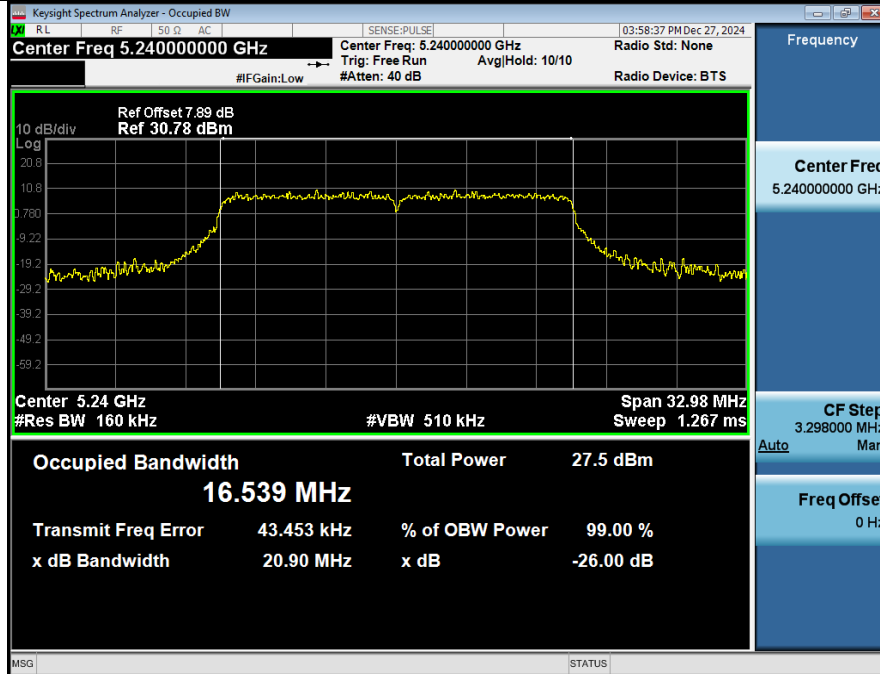
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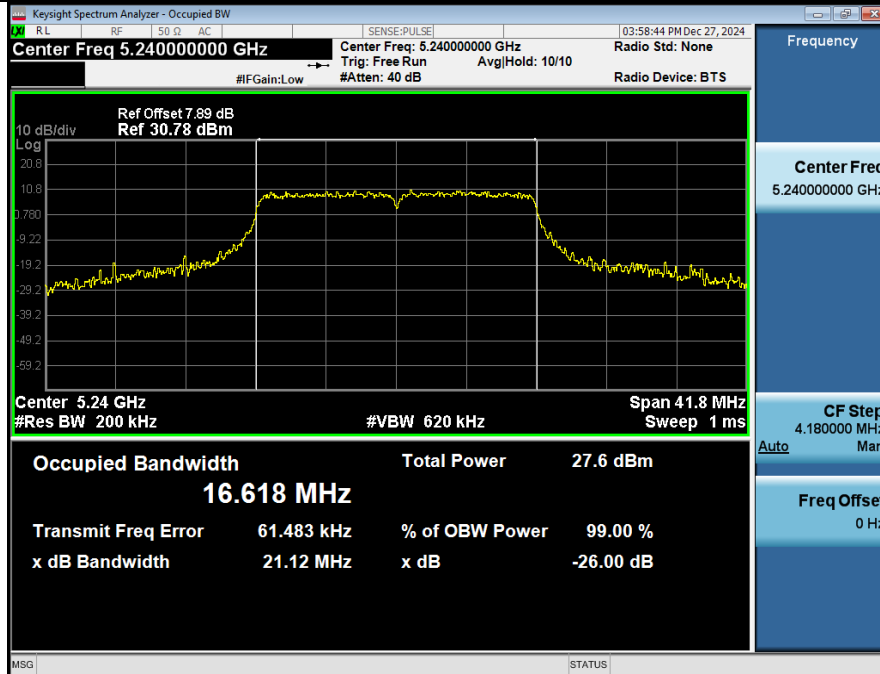
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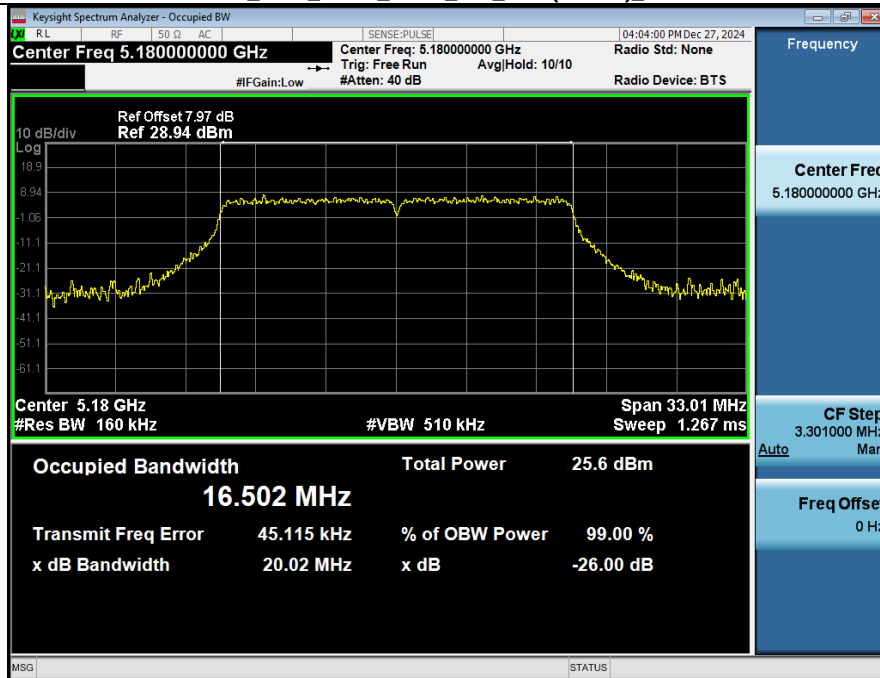
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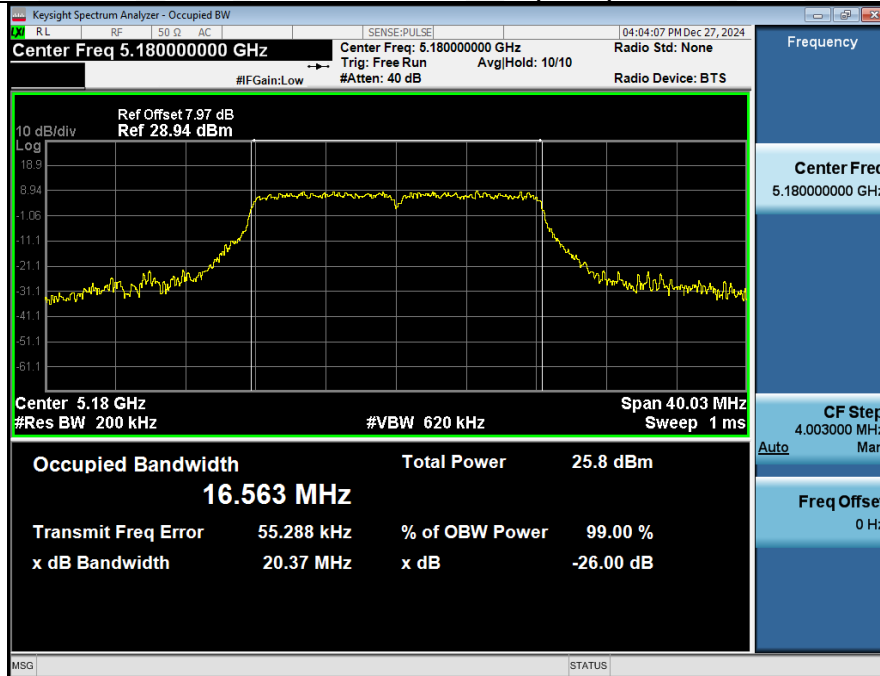
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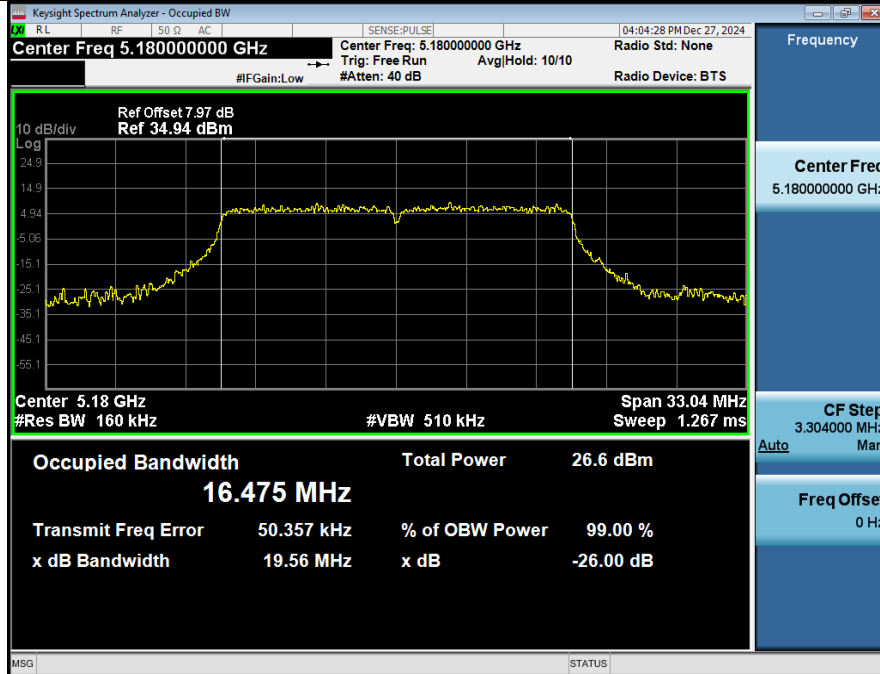
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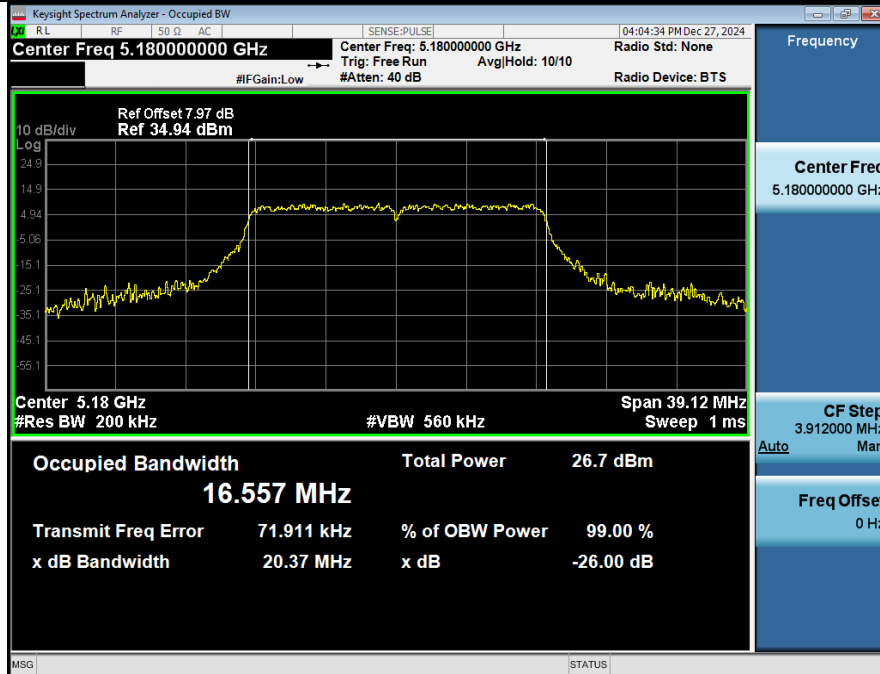
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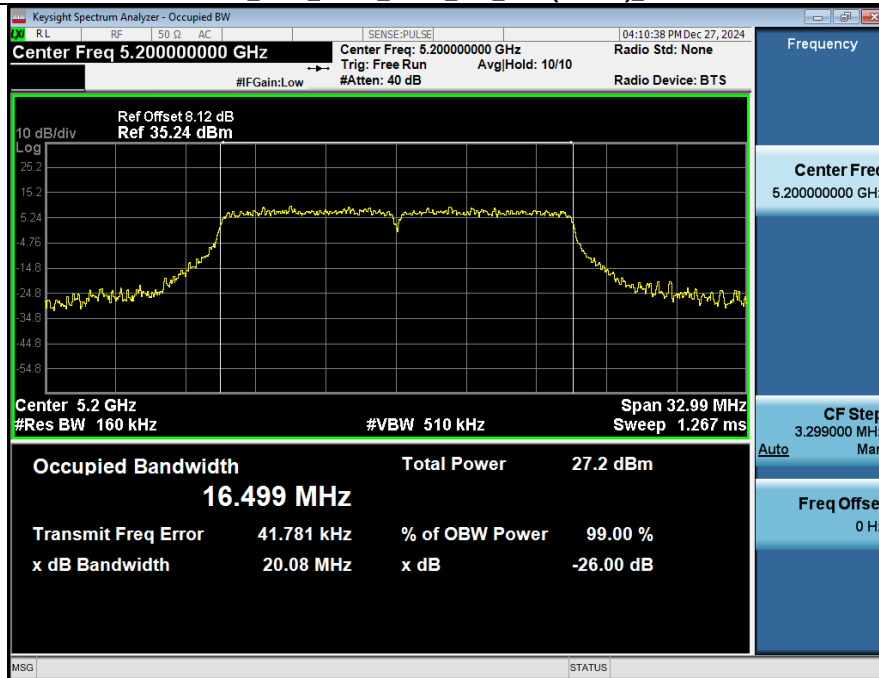
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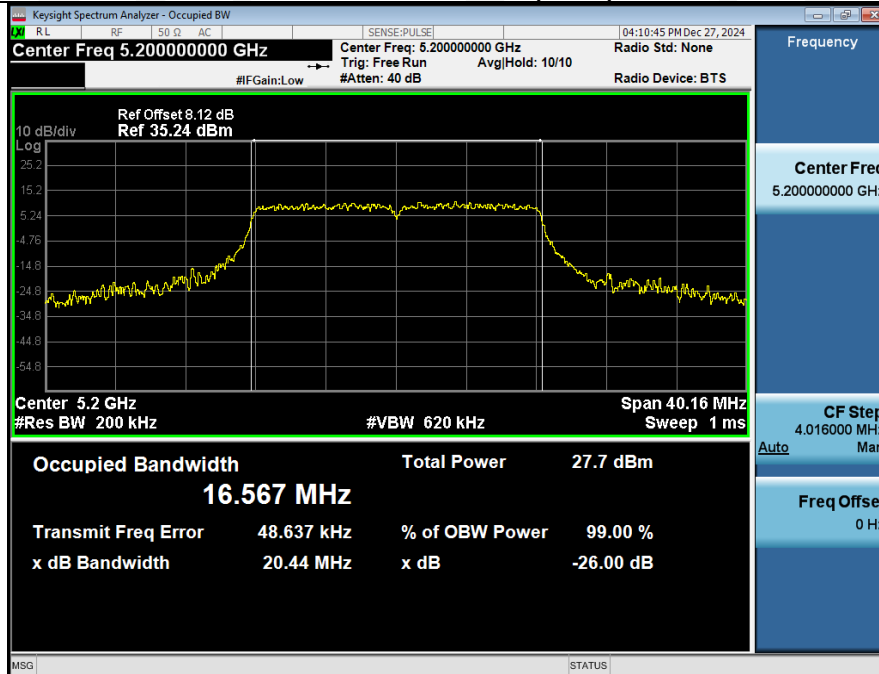
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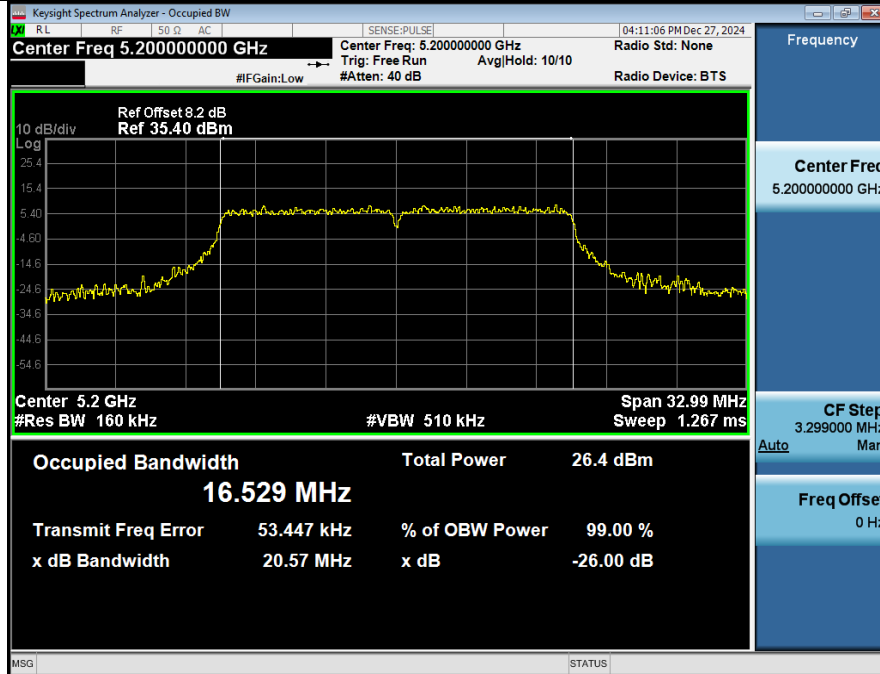
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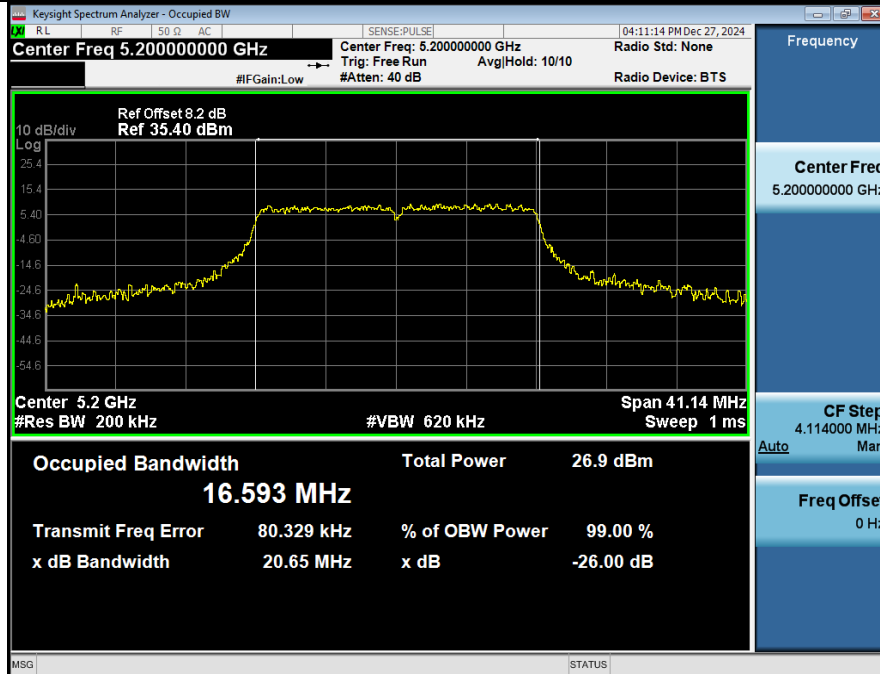
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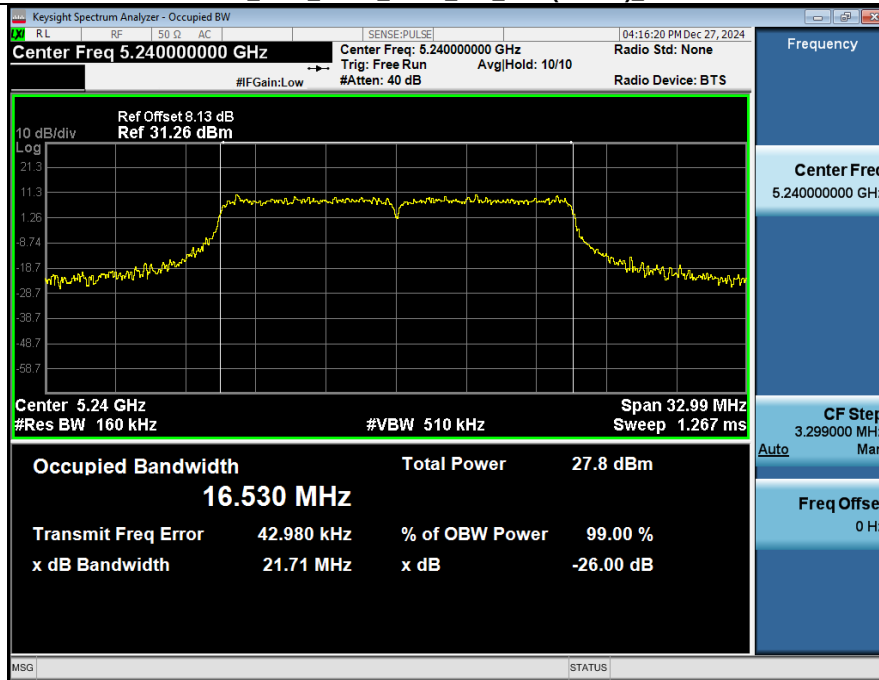
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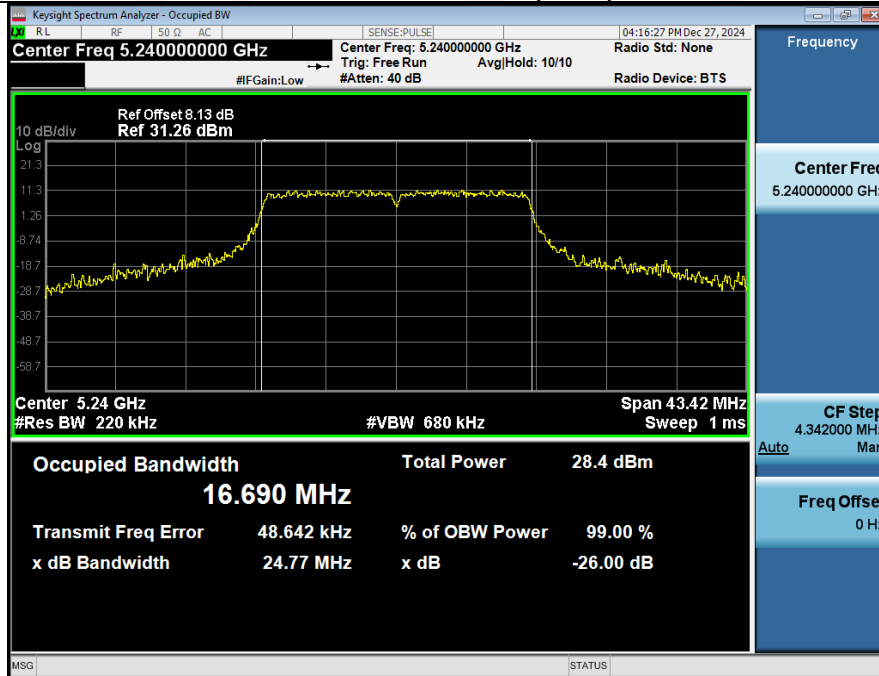
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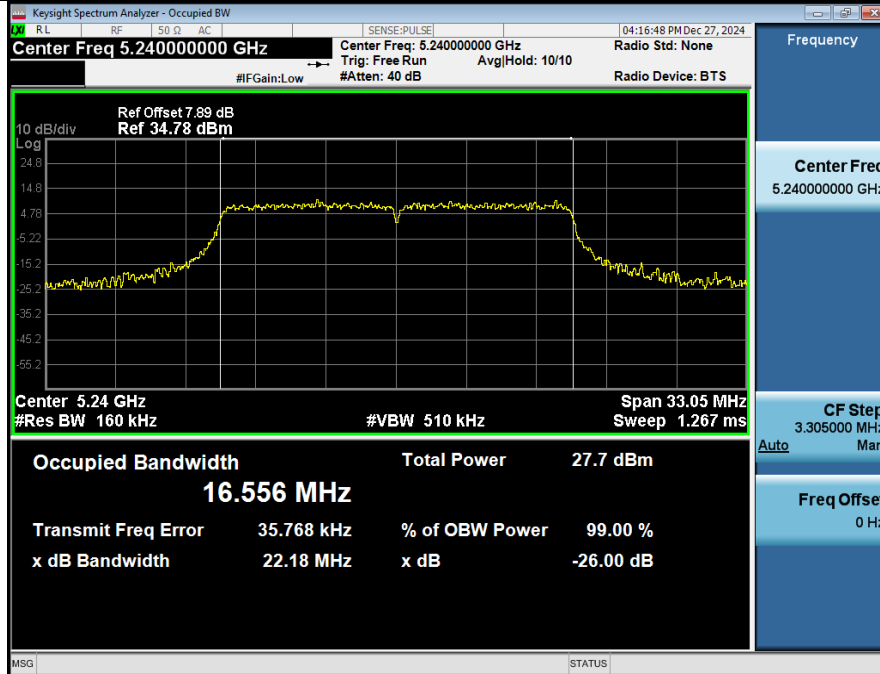
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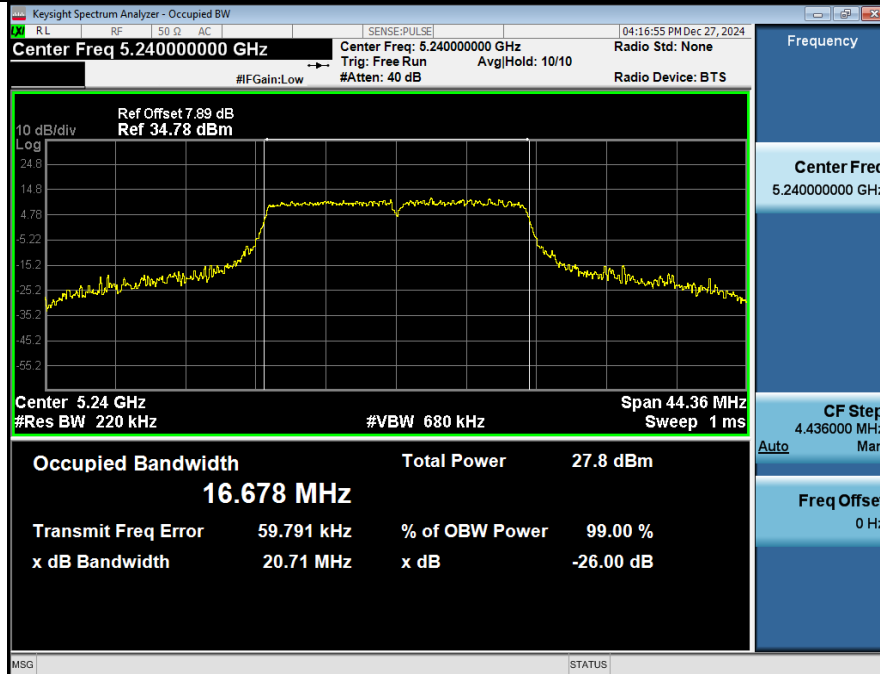
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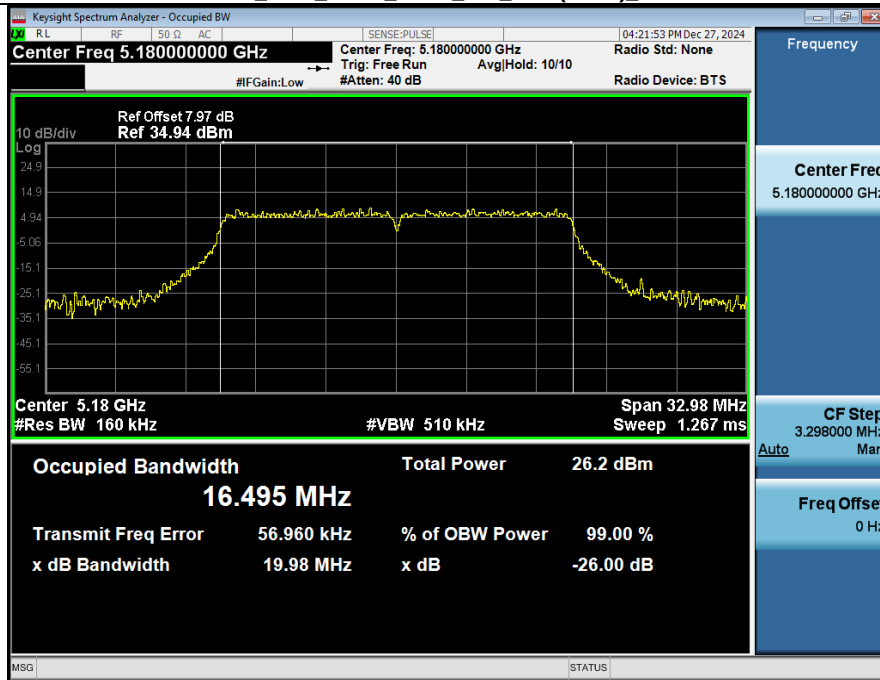
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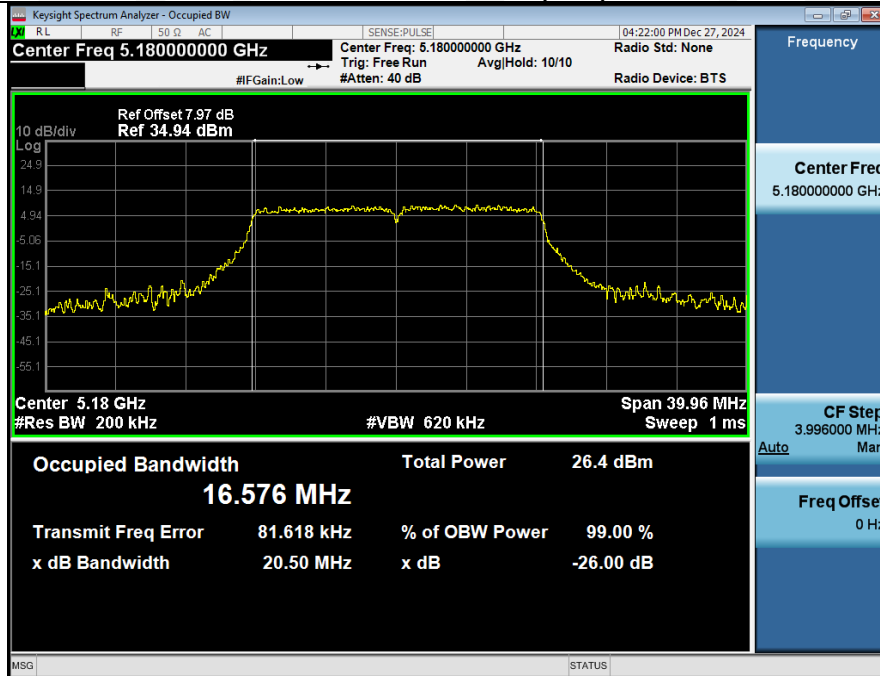
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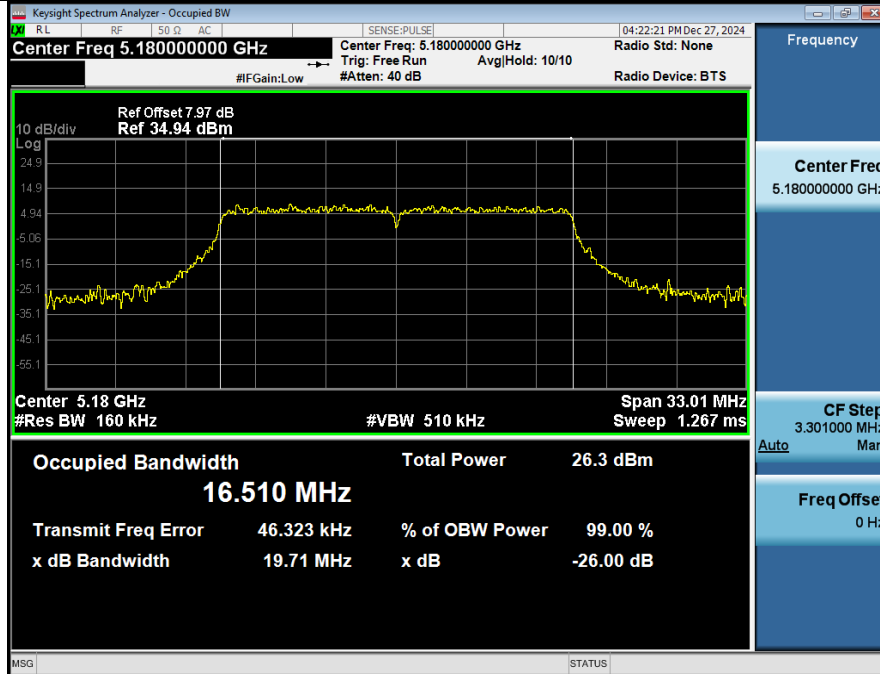
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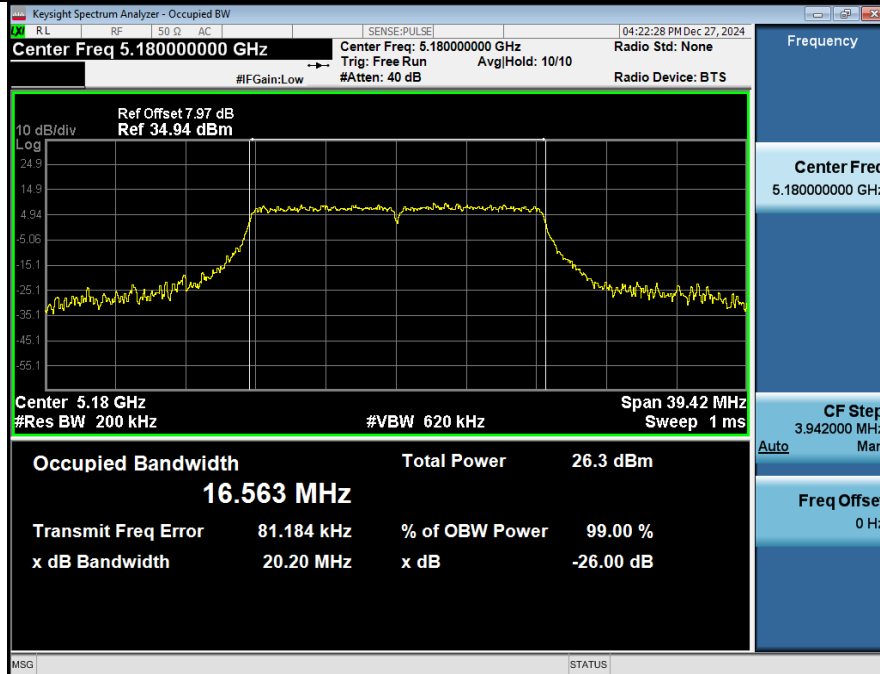
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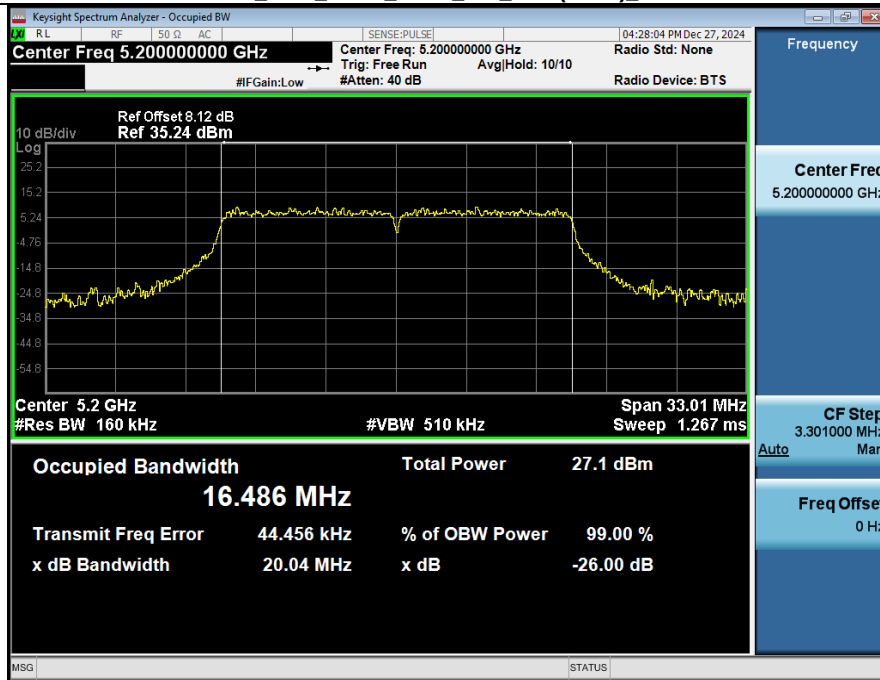
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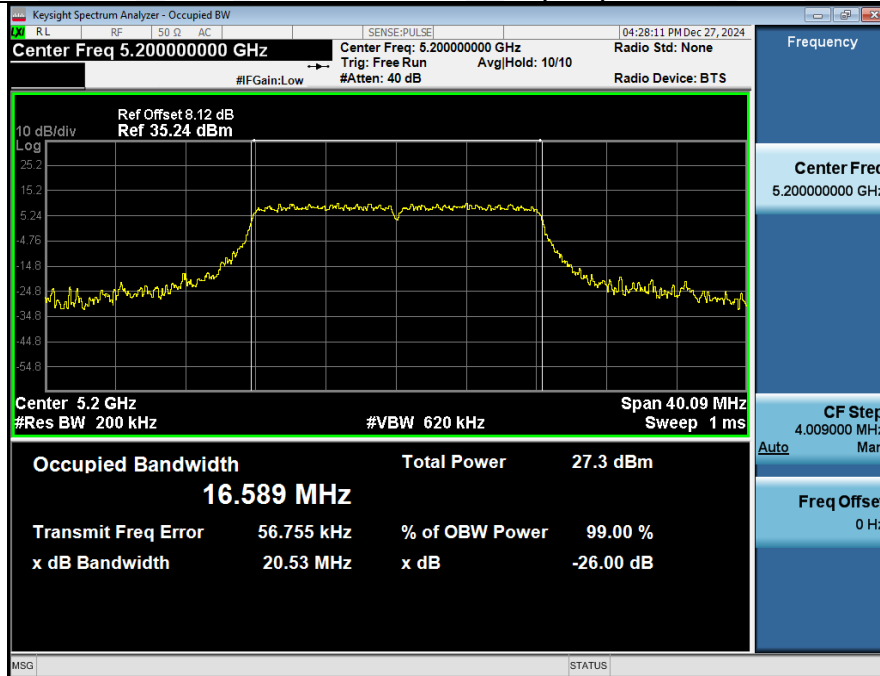
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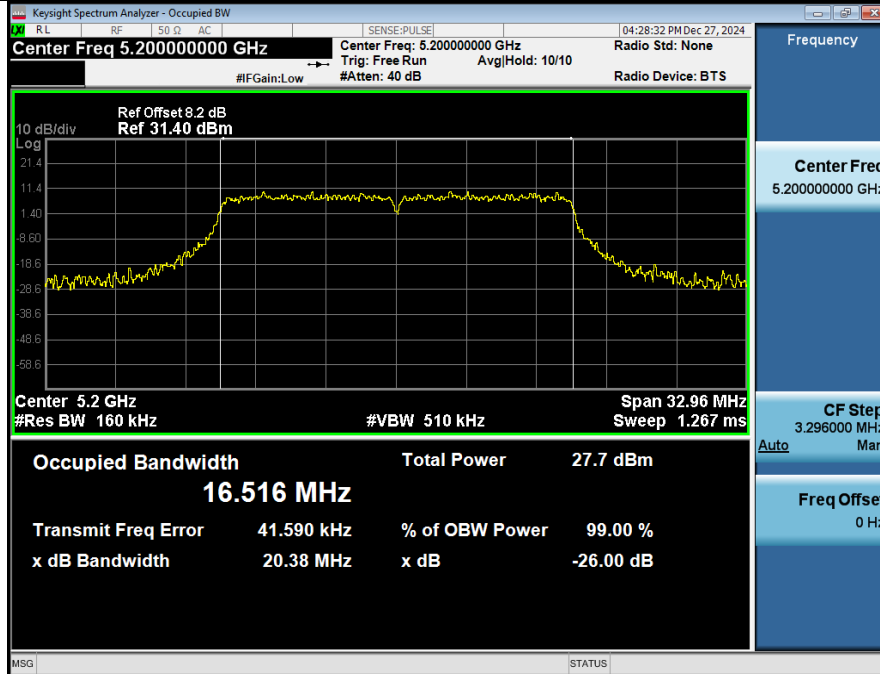
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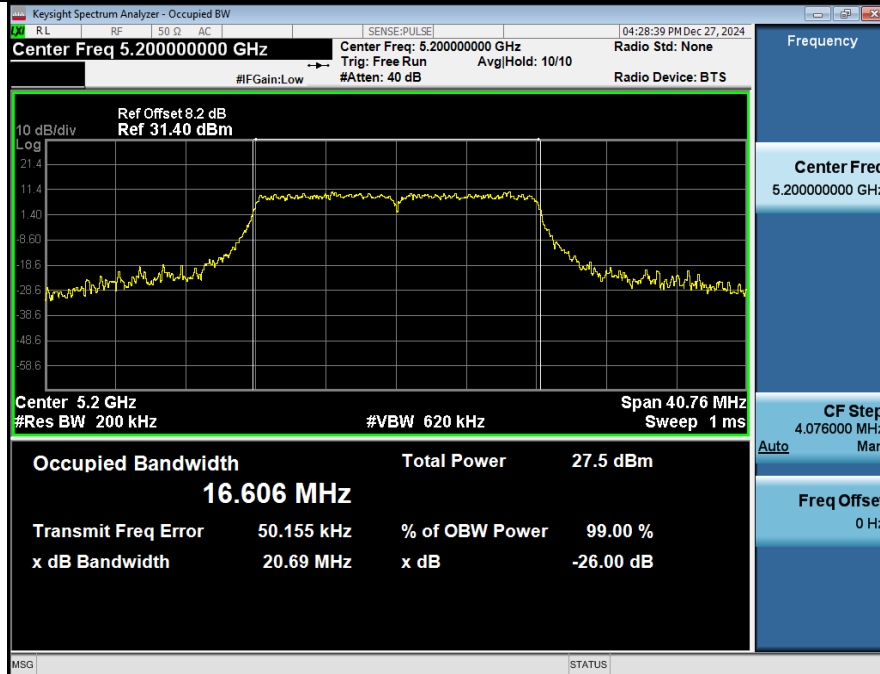
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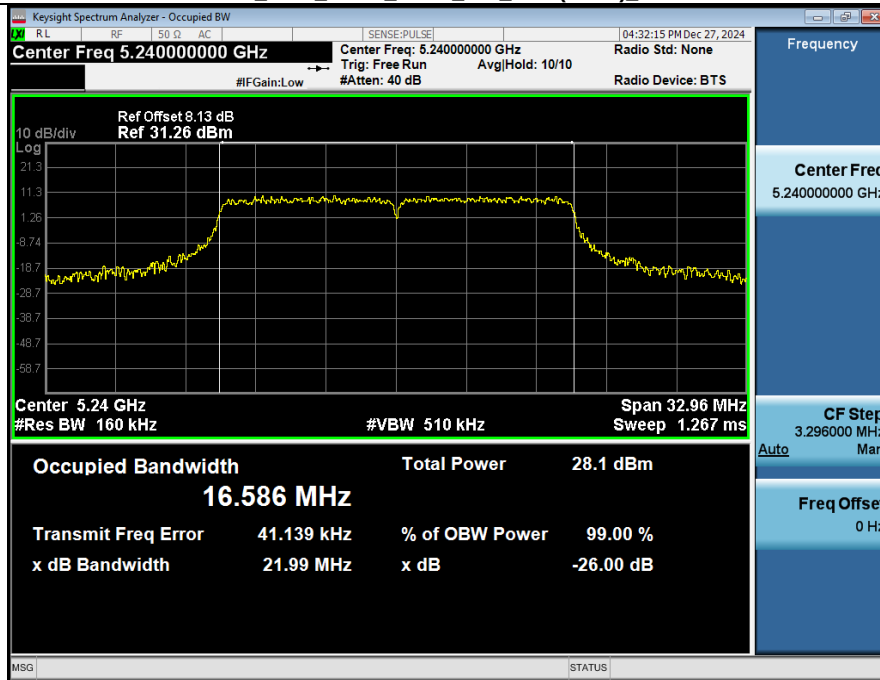
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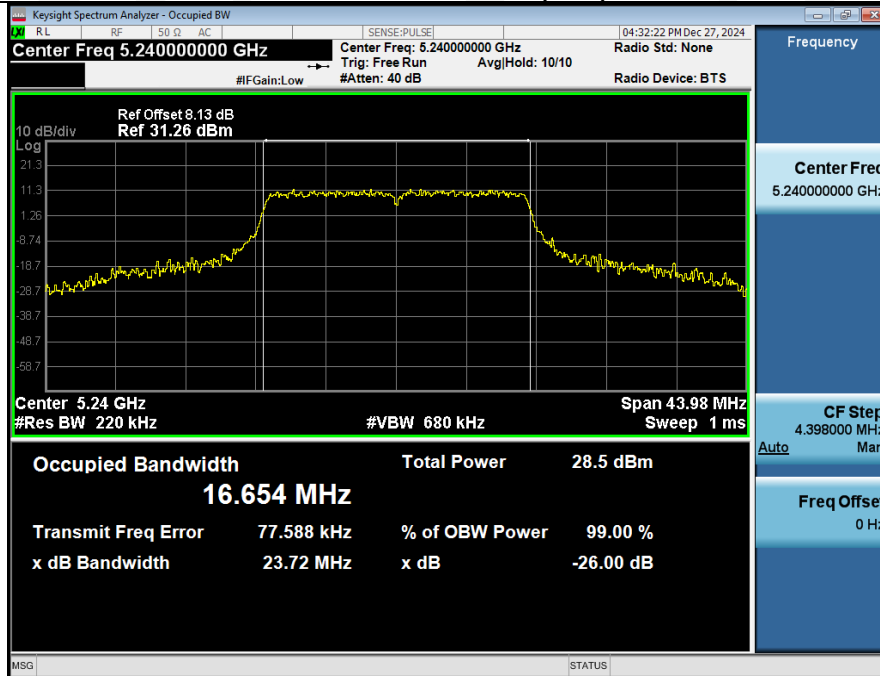
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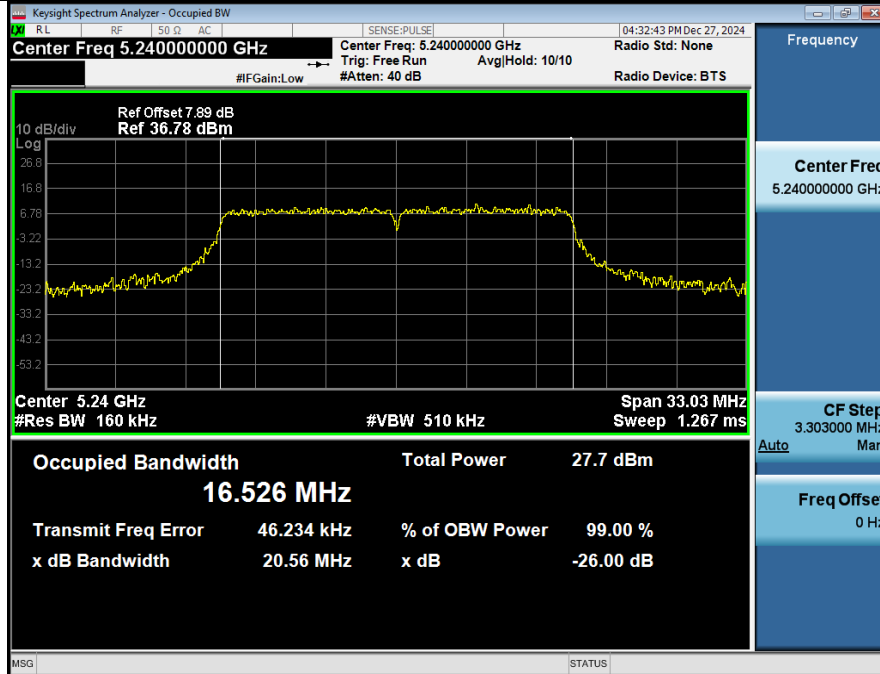
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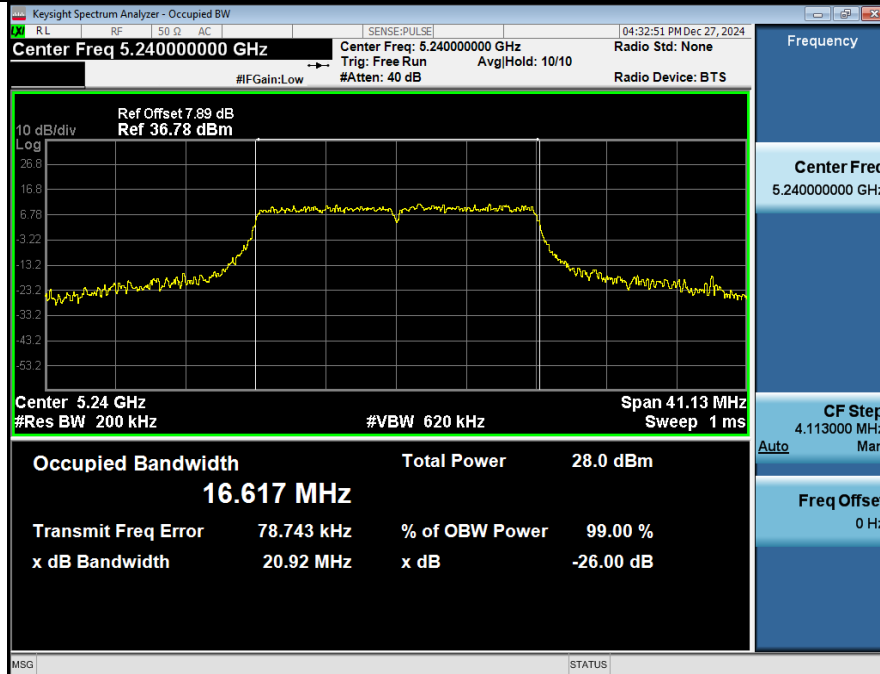
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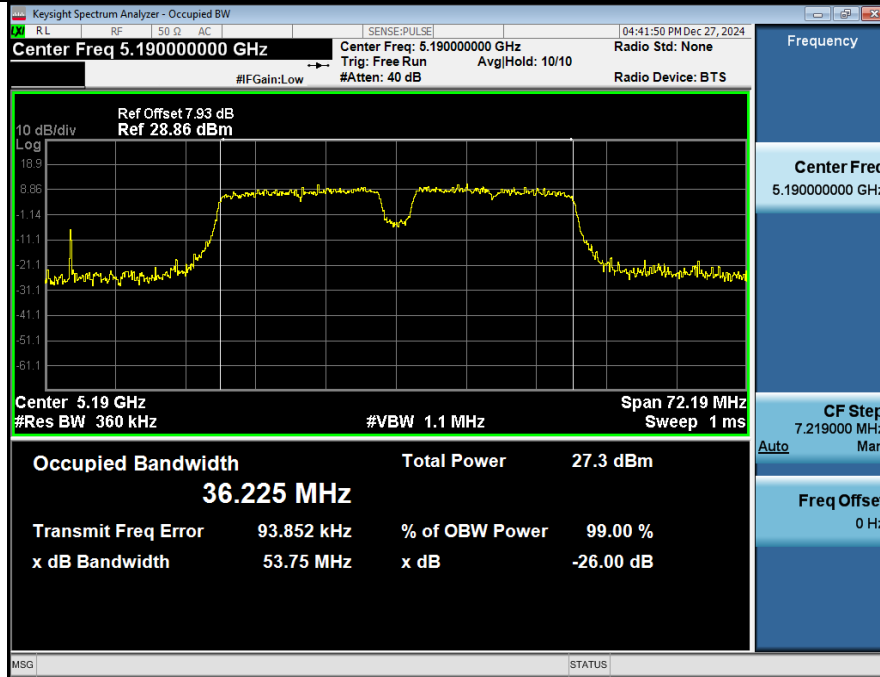
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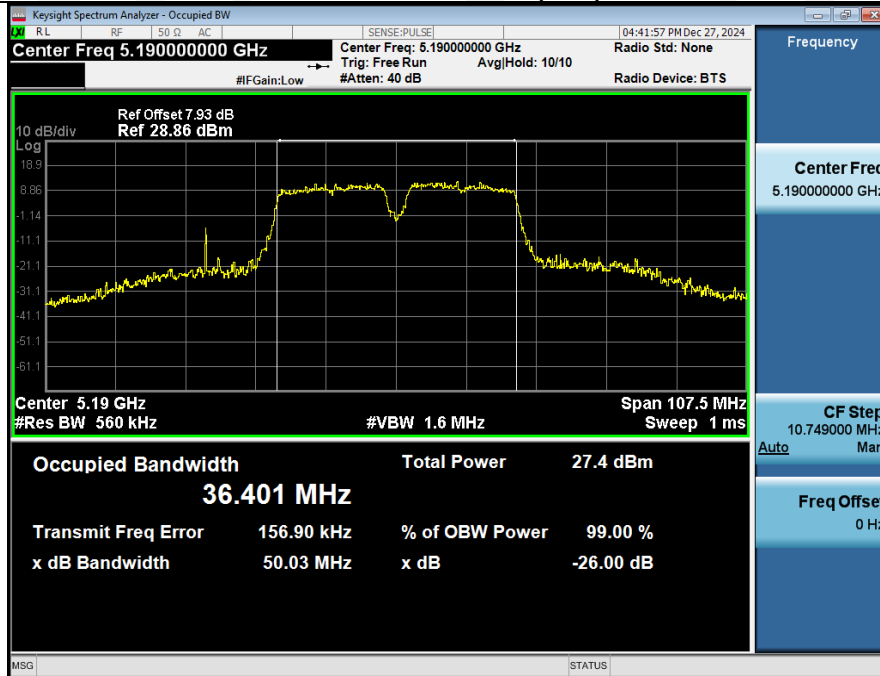
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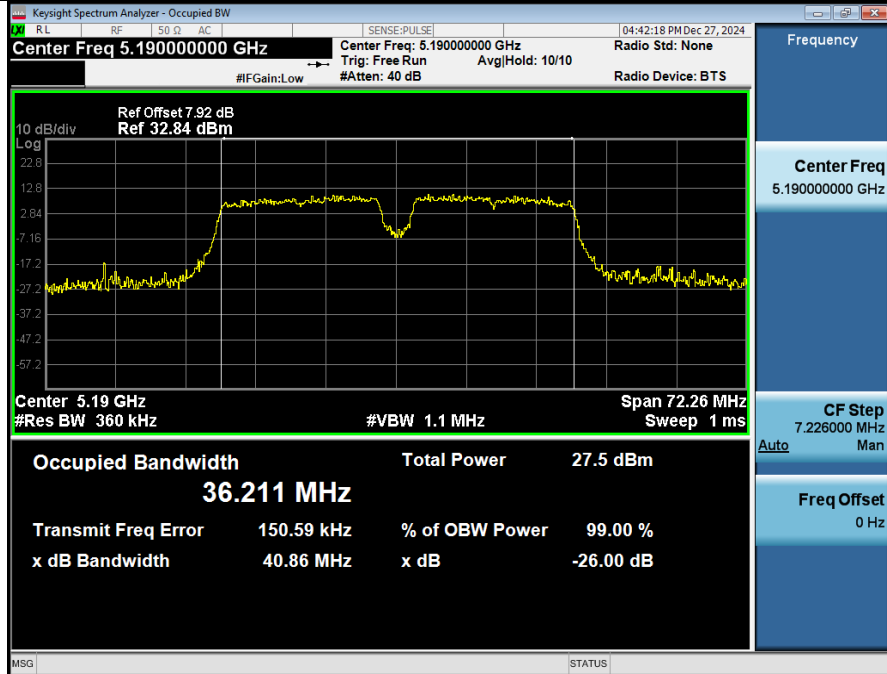
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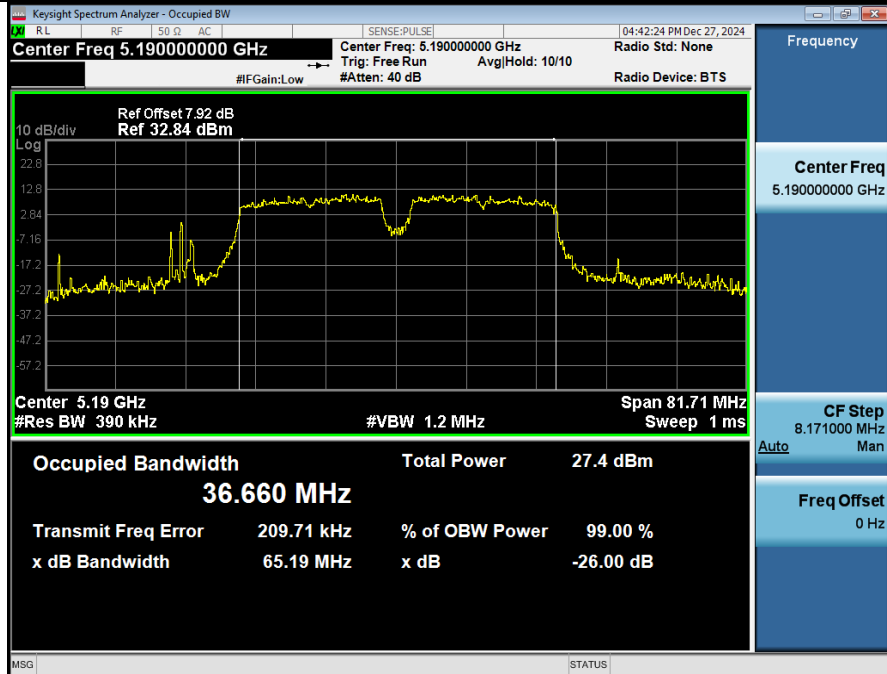
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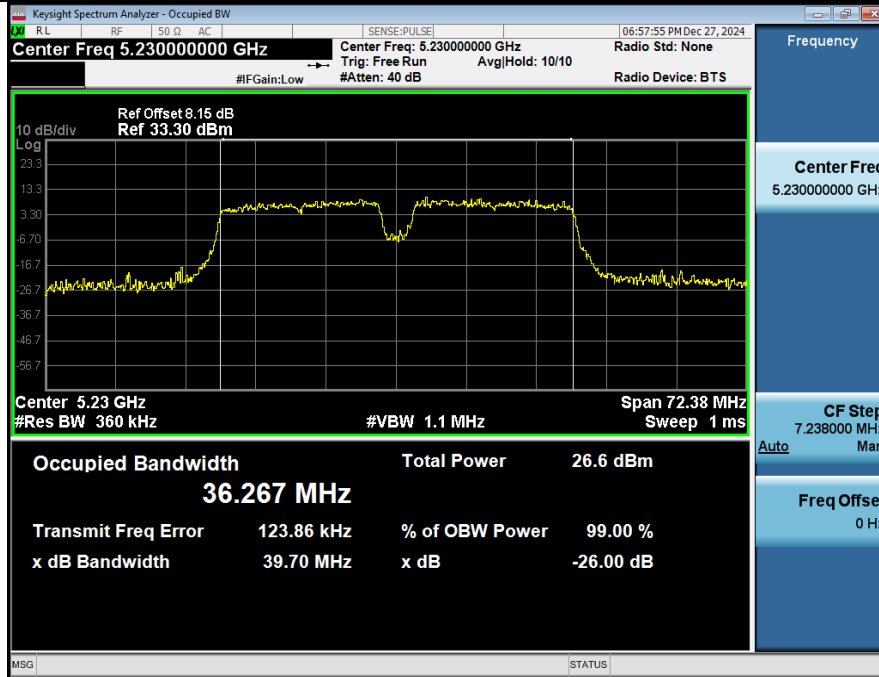
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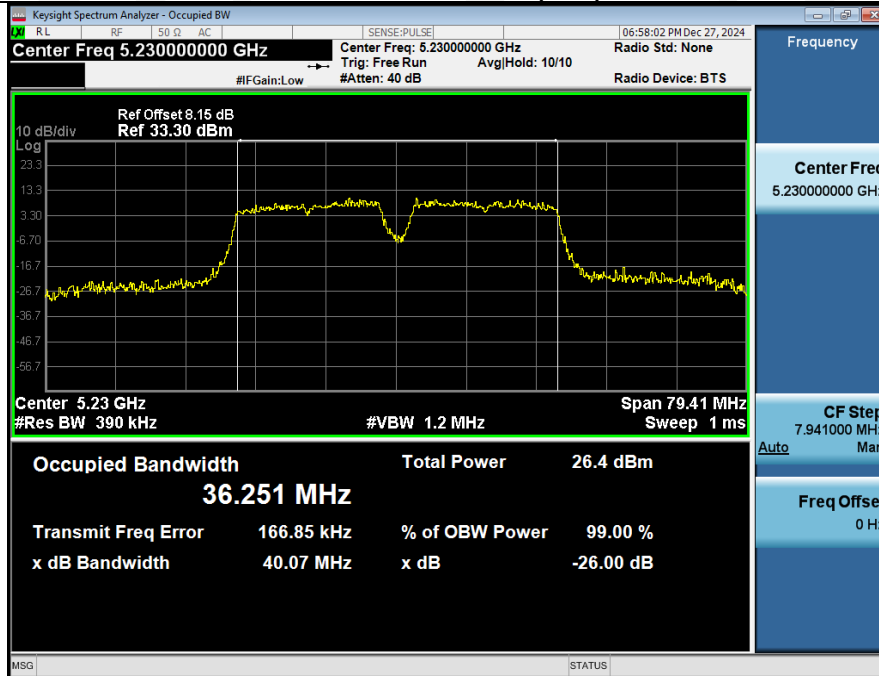
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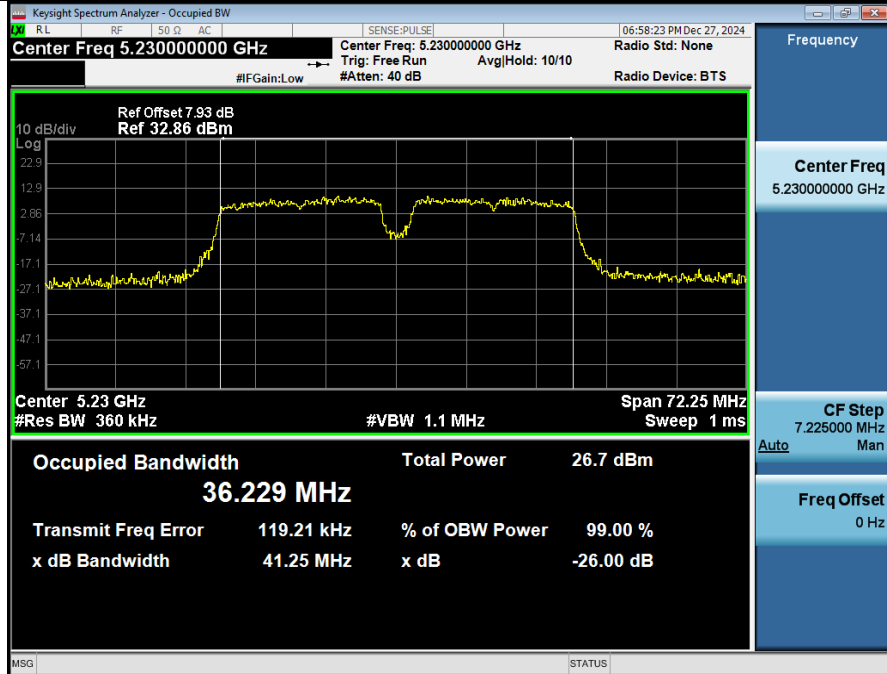
## 99%\_OCB\_NVNT\_ANT1\_802\_11n(HT40)\_5230



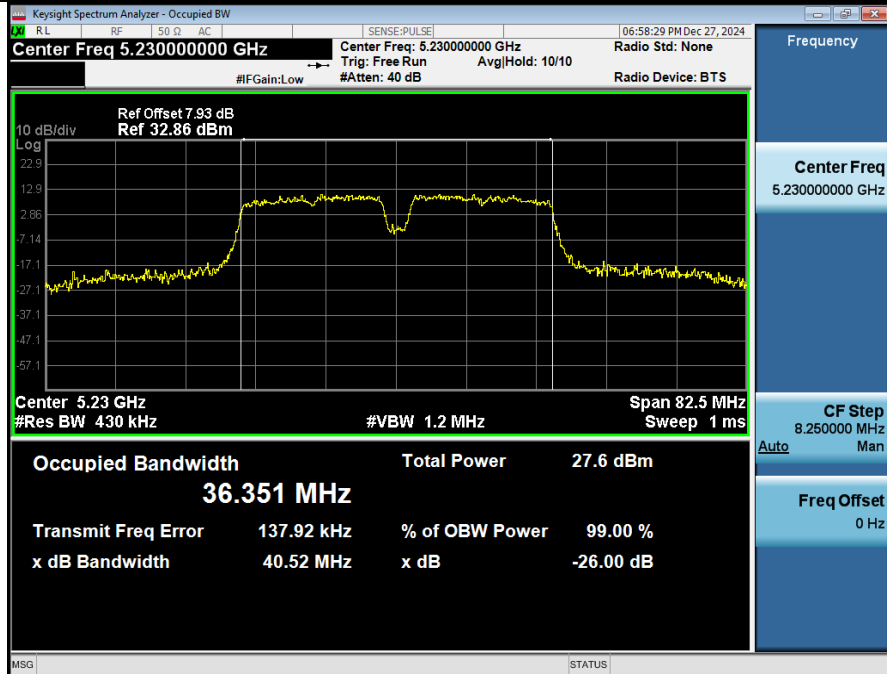
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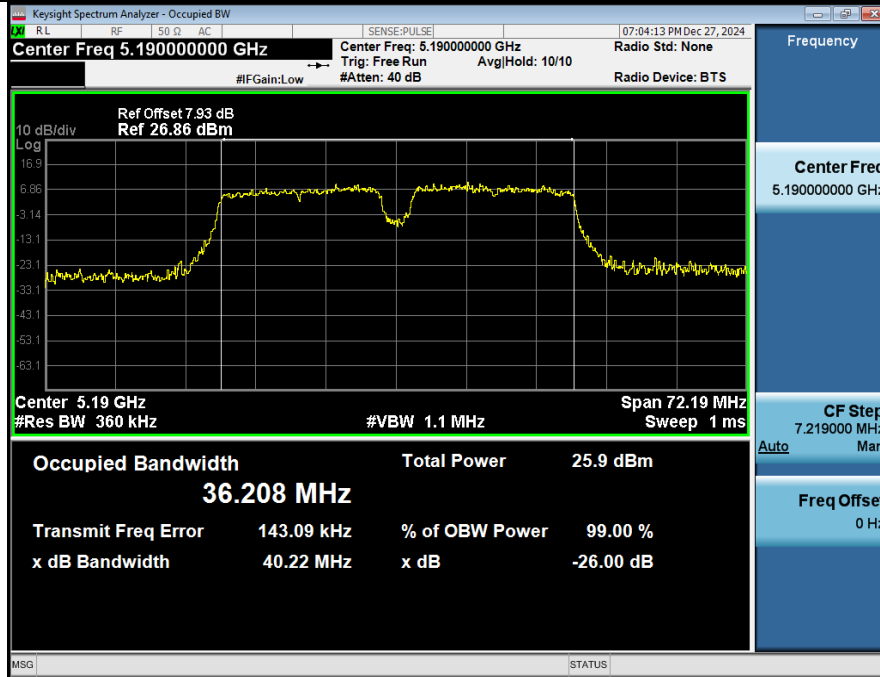
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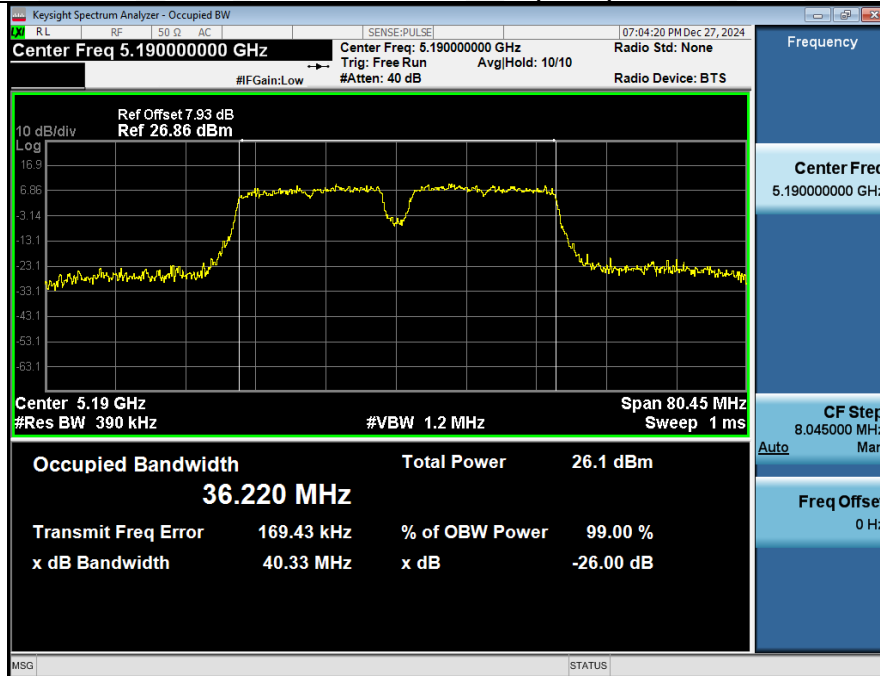
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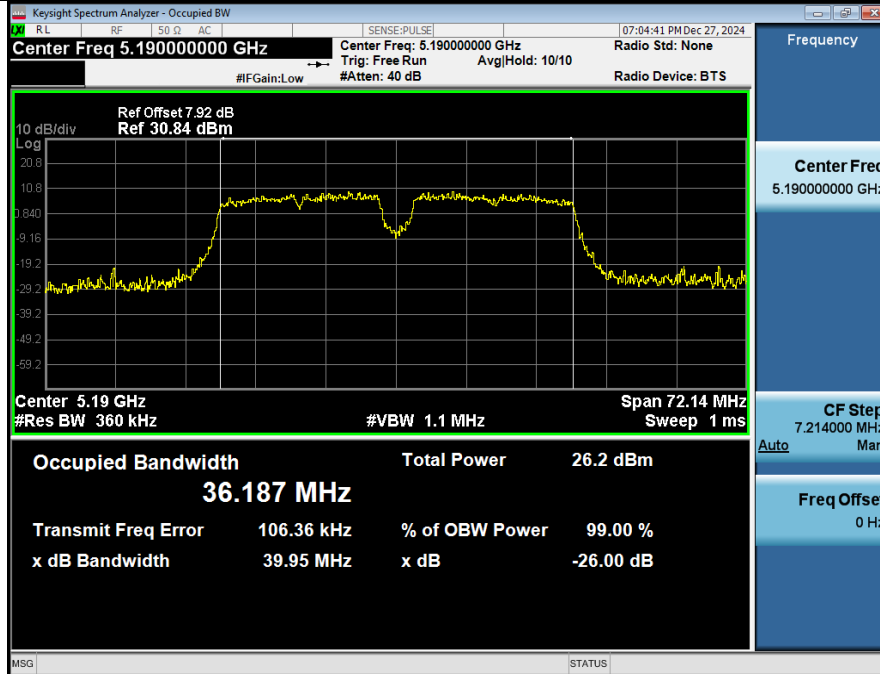
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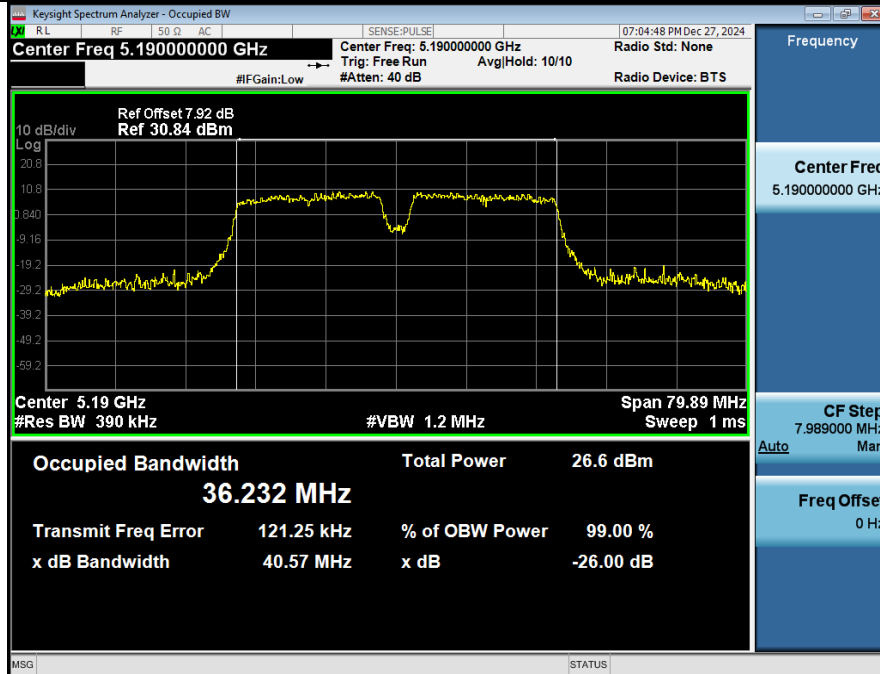
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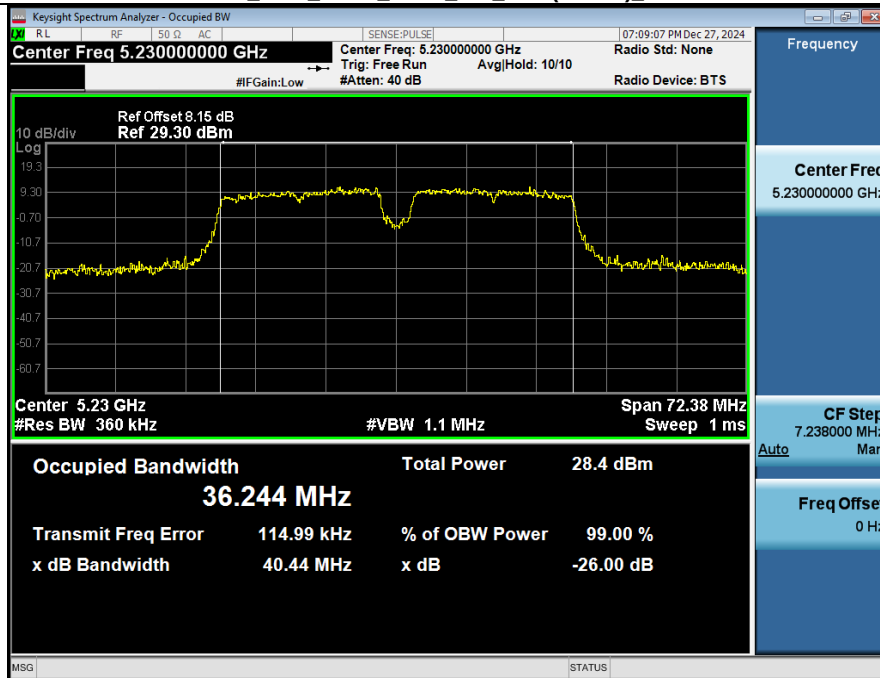
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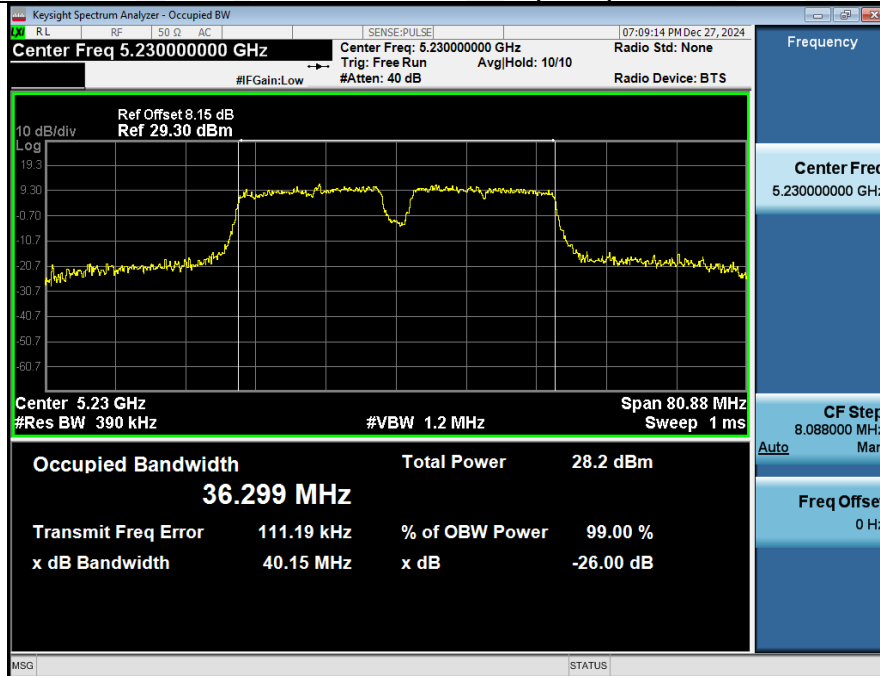
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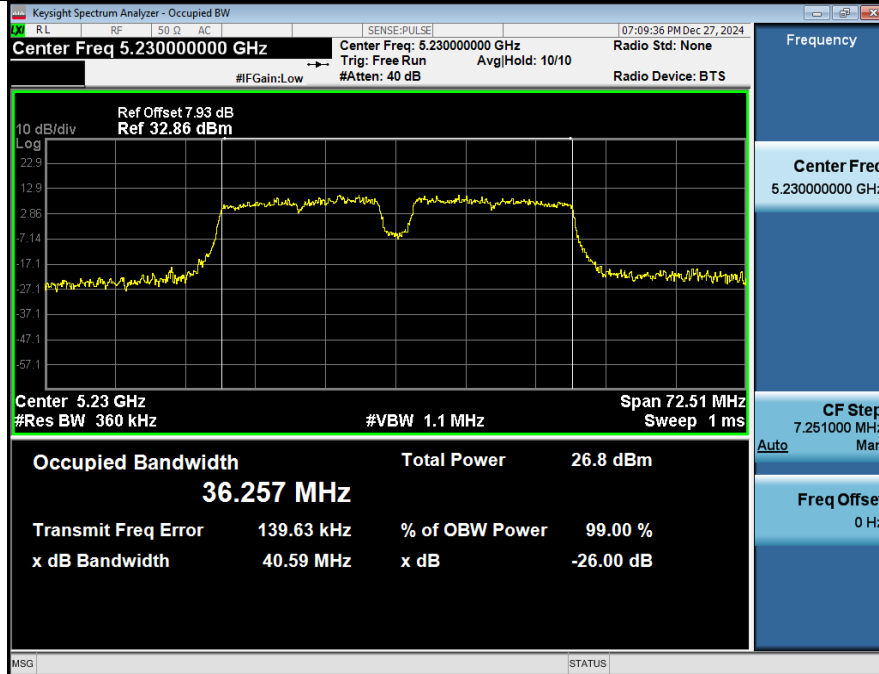
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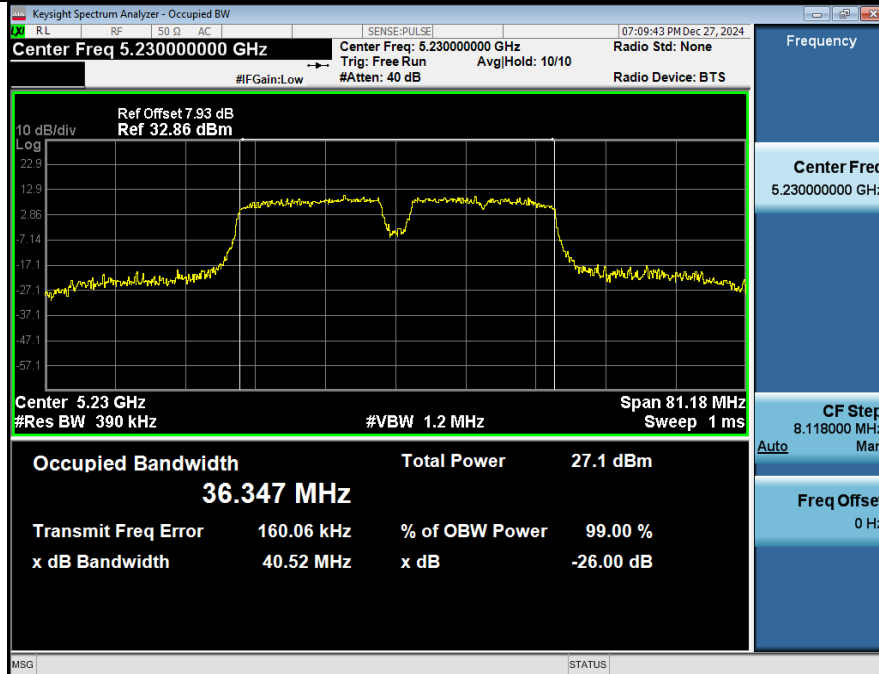
## -26BW\_NVNT\_ANT1\_802\_11ac(VHT40)\_5230



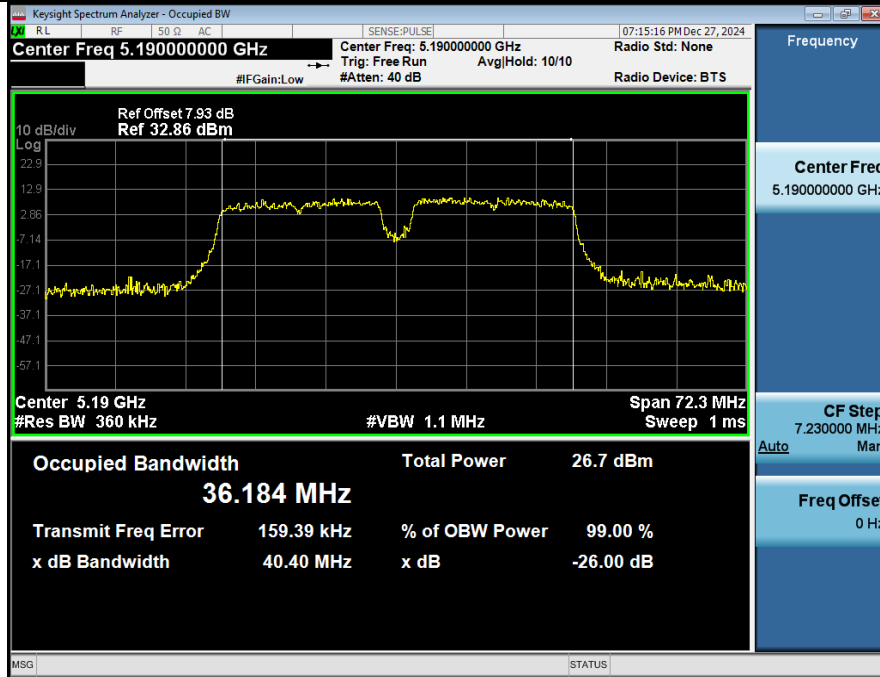
## 99%\_OCB\_NVNT\_ANT2\_802\_11ac(VHT40)\_5230



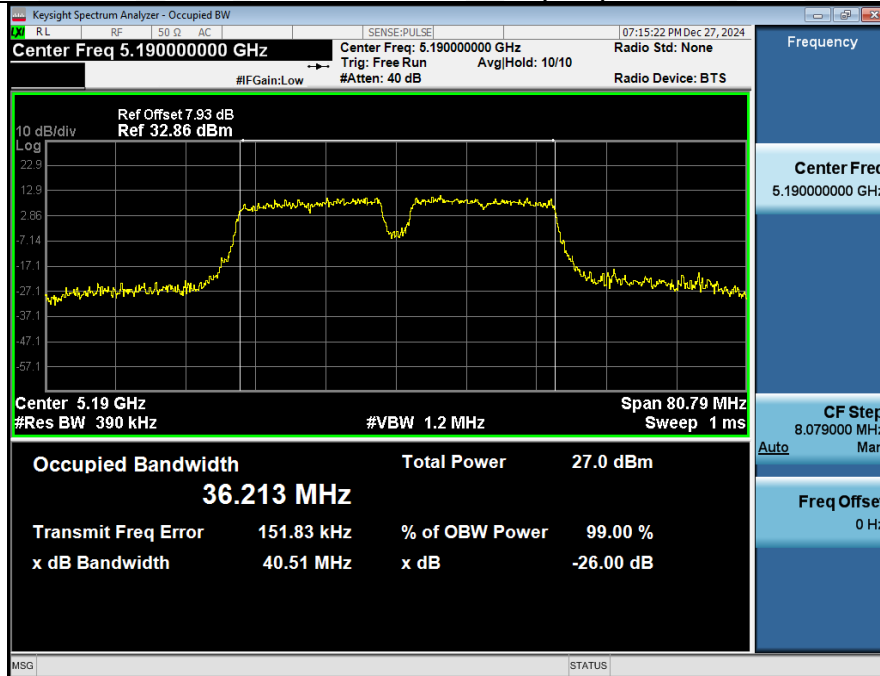
## -26BW\_NVNT\_ANT2\_802\_11ac(VHT40)\_5230



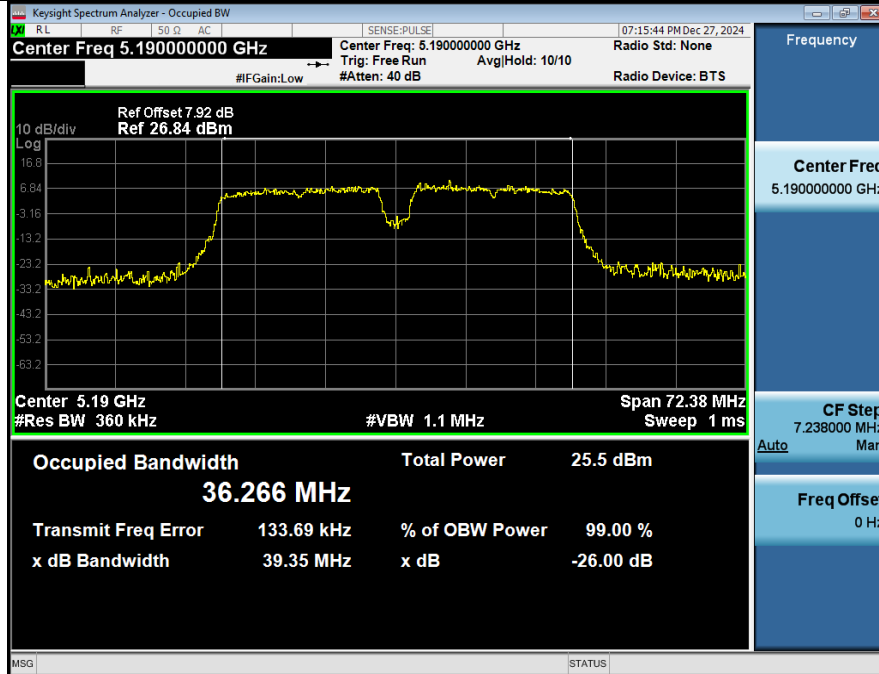
## 99%\_OCB\_NVNT\_ANT1\_802\_11ax(HE40)\_5190



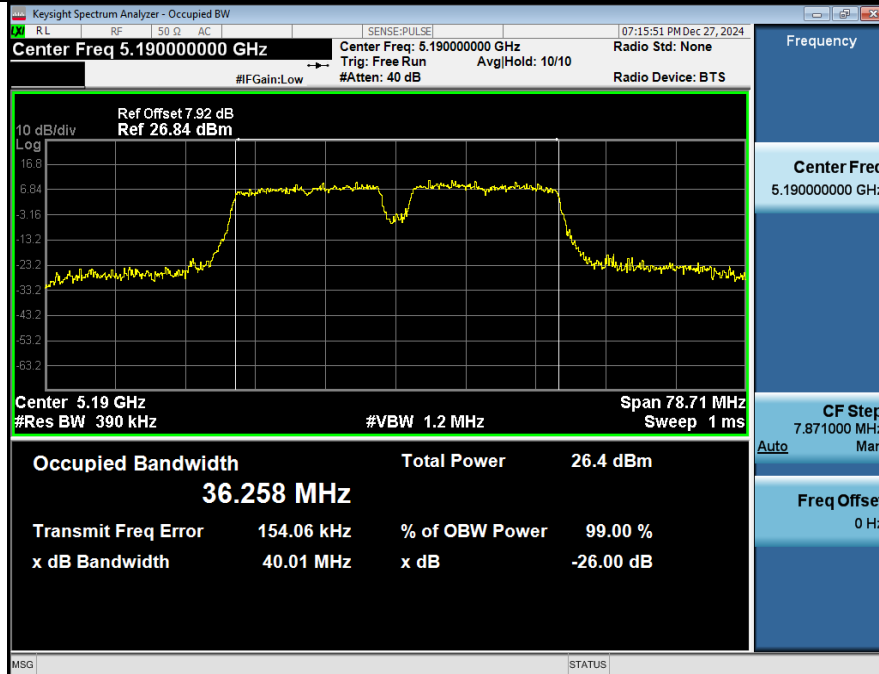
## -26BW\_NVNT\_ANT1\_802\_11ax(HE40)\_5190



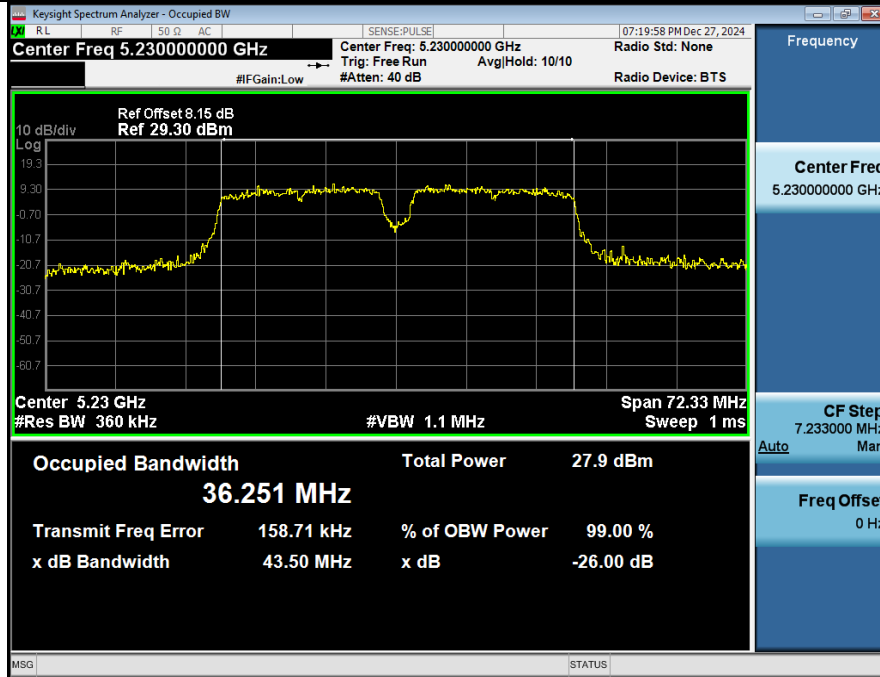
## 99%\_OCB\_NVNT\_ANT2\_802\_11ax(HE40)\_5190



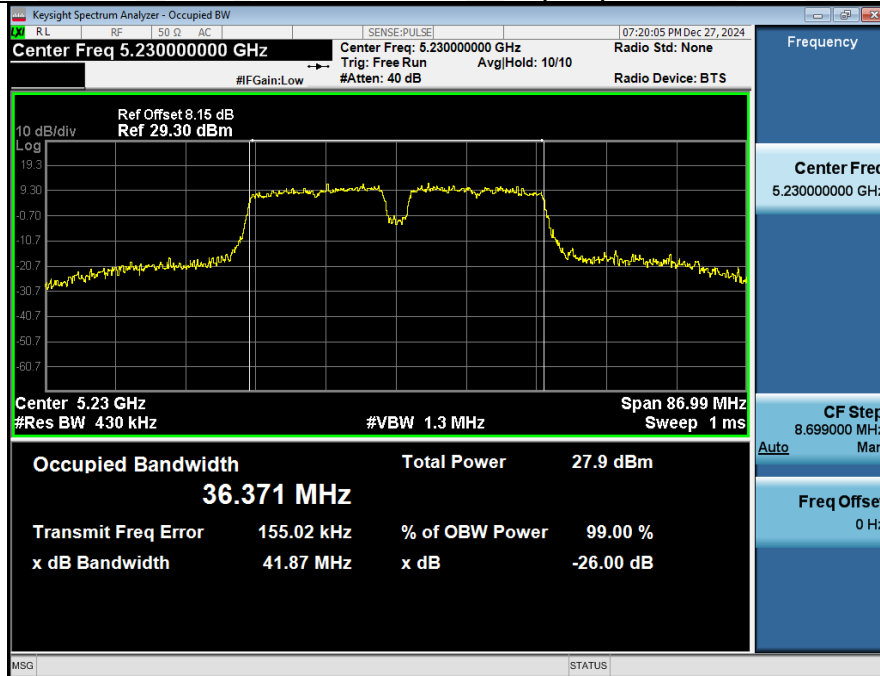
## -26BW\_NVNT\_ANT2\_802\_11ax(HE40)\_5190



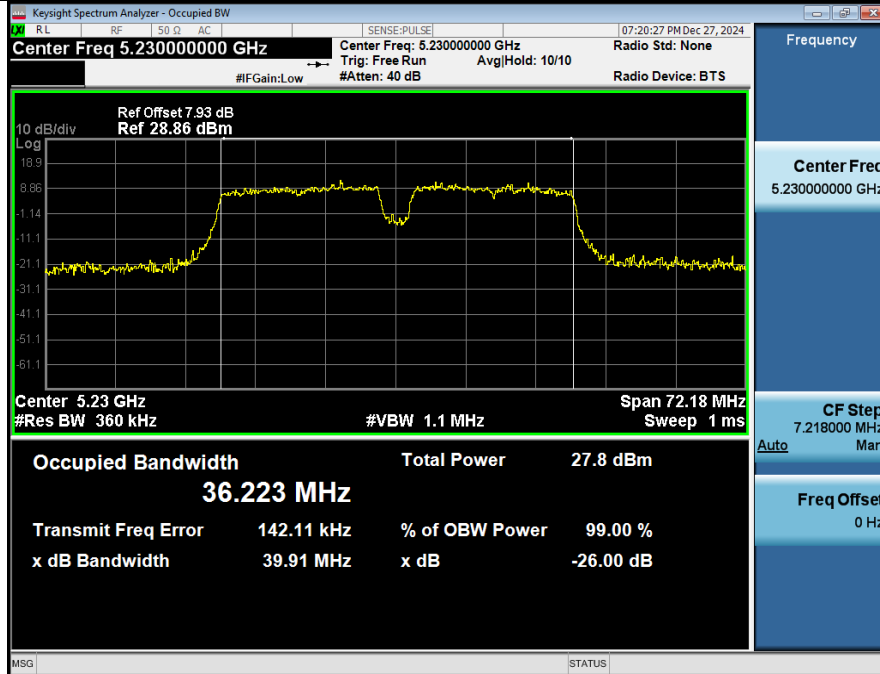
## 99%\_OCB\_NVNT\_ANT1\_802\_11ax(HE40)\_5230



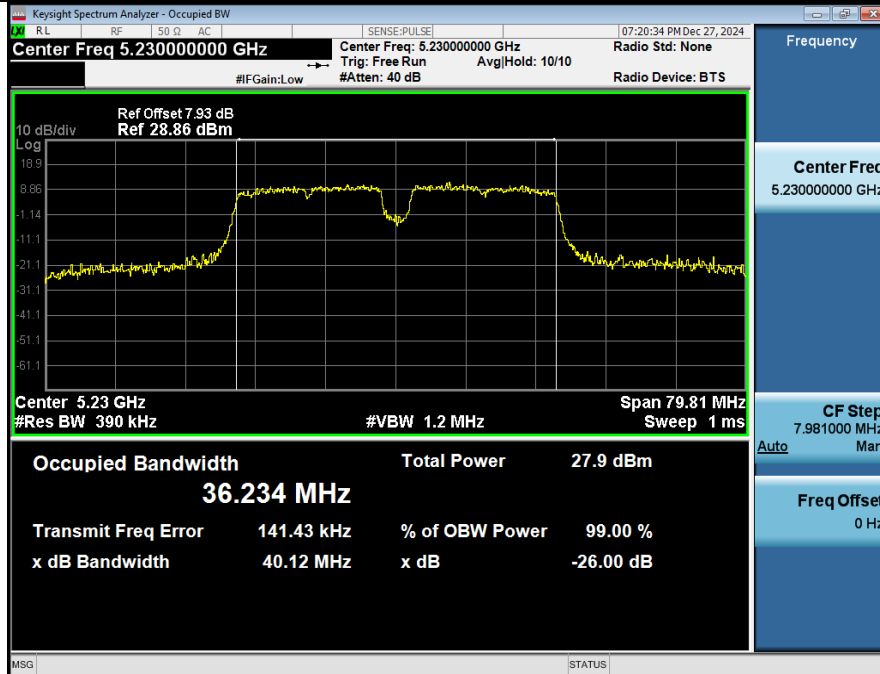
## -26BW\_NVNT\_ANT1\_802\_11ax(HE40)\_5230



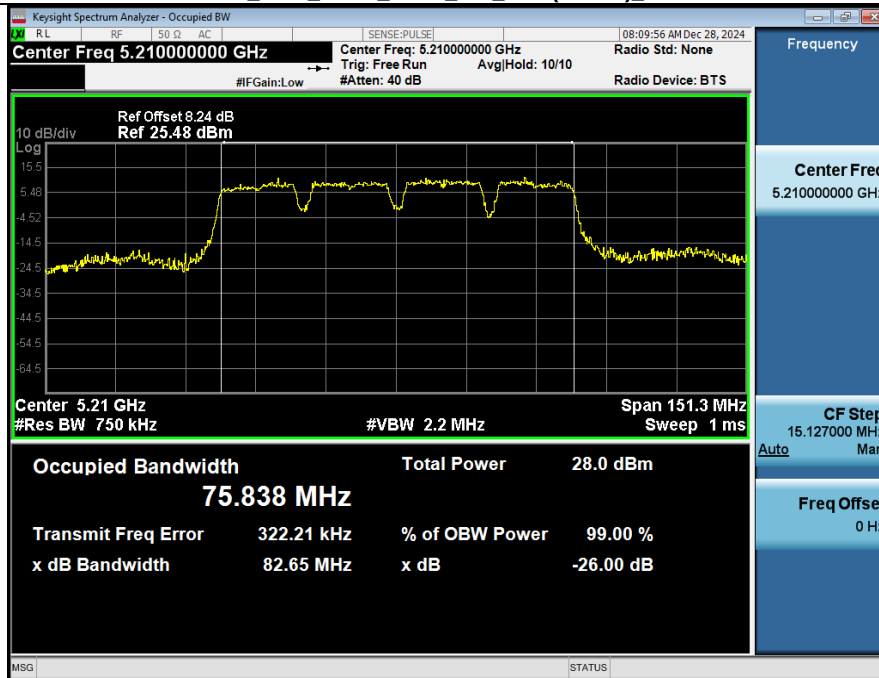
## 99%\_OCB\_NVNT\_ANT2\_802\_11ax(HE40)\_5230



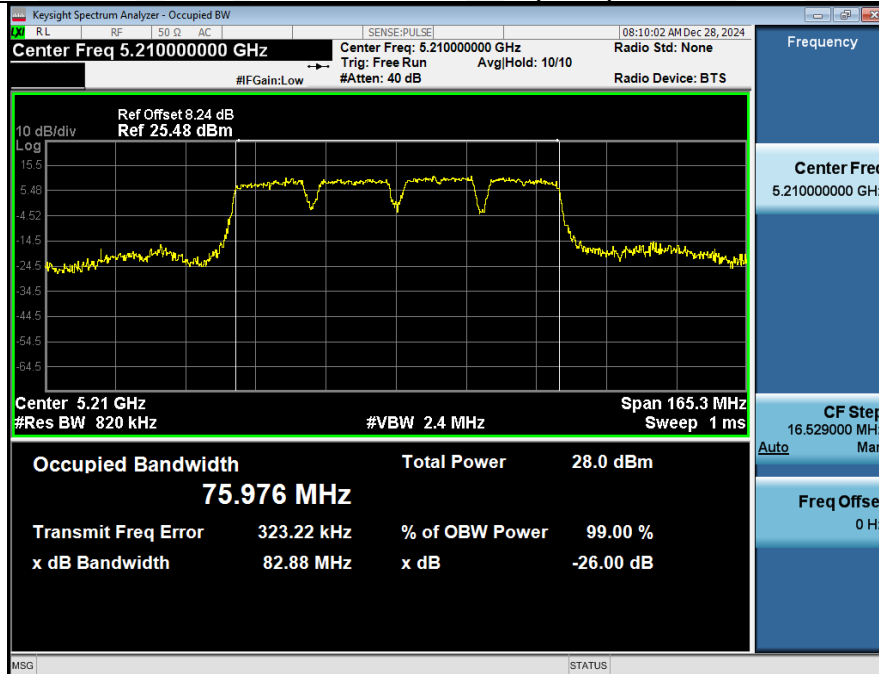
## -26BW\_NVNT\_ANT2\_802\_11ax(HE40)\_5230



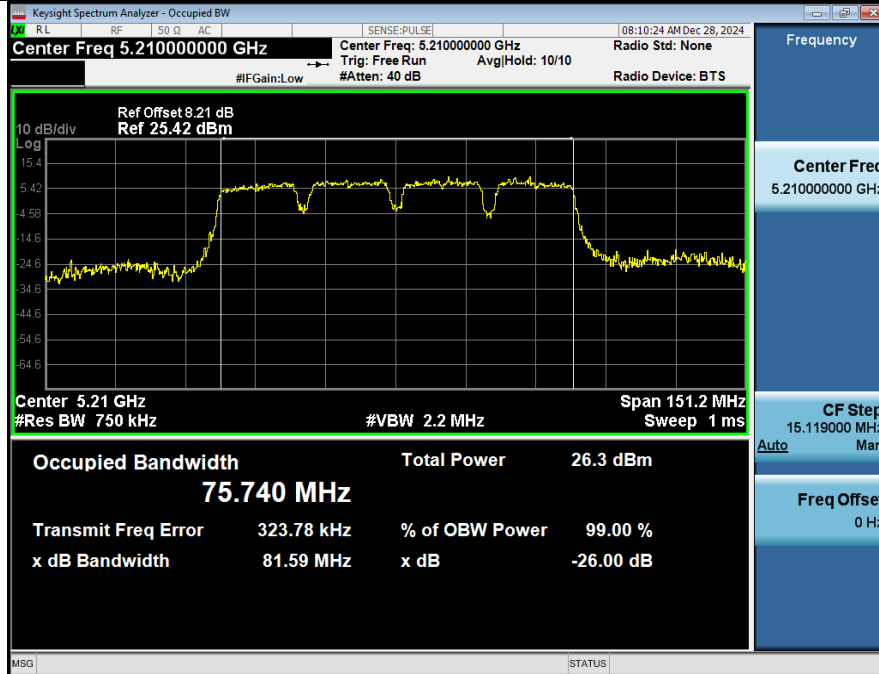
## 99%\_OCB\_NVNT\_ANT1\_802\_11ac(VHT80)\_5210



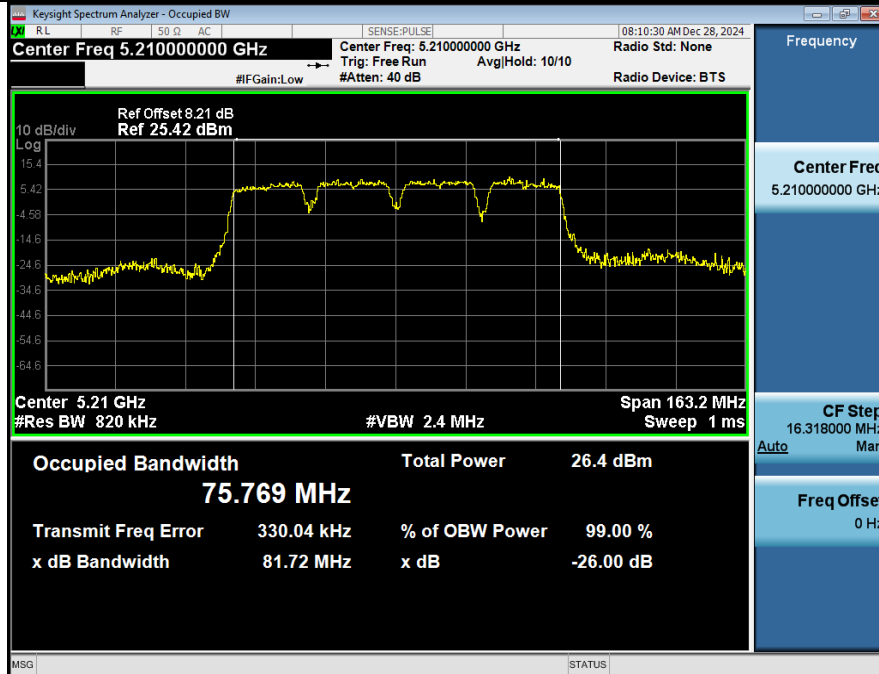
## -26BW\_NVNT\_ANT1\_802\_11ac(VHT80)\_5210



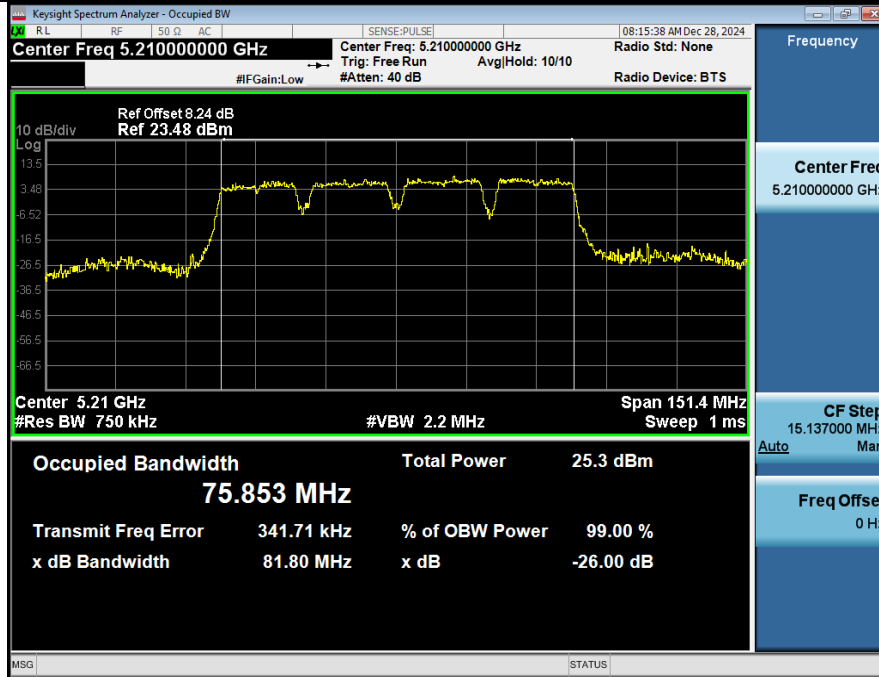
## 99%\_OCB\_NVNT\_ANT2\_802\_11ac(VHT80)\_5210



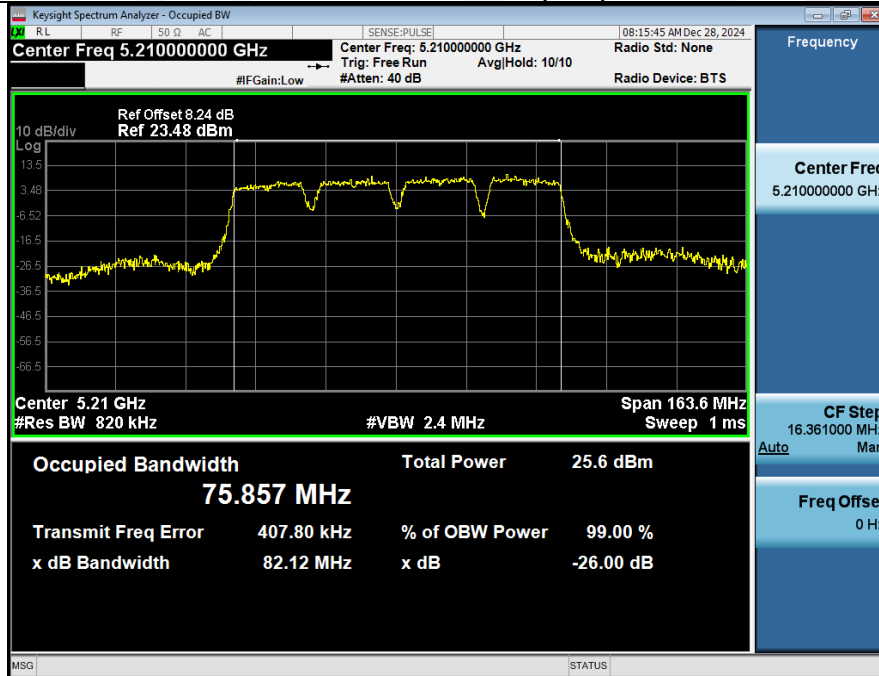
## -26BW\_NVNT\_ANT2\_802\_11ac(VHT80)\_5210



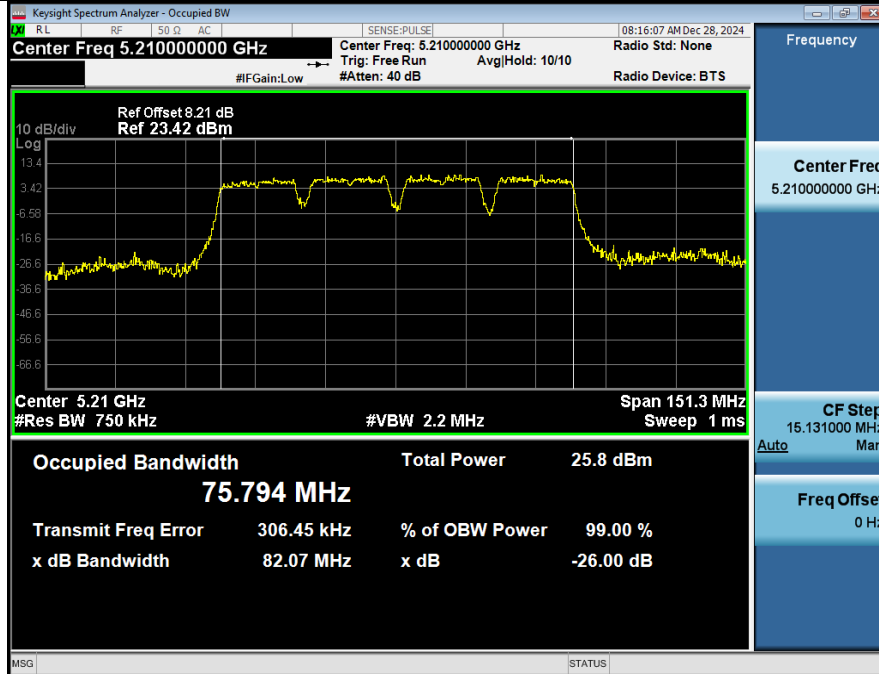
## 99%\_OCB\_NVNT\_ANT1\_802\_11ax(HE80)\_5210



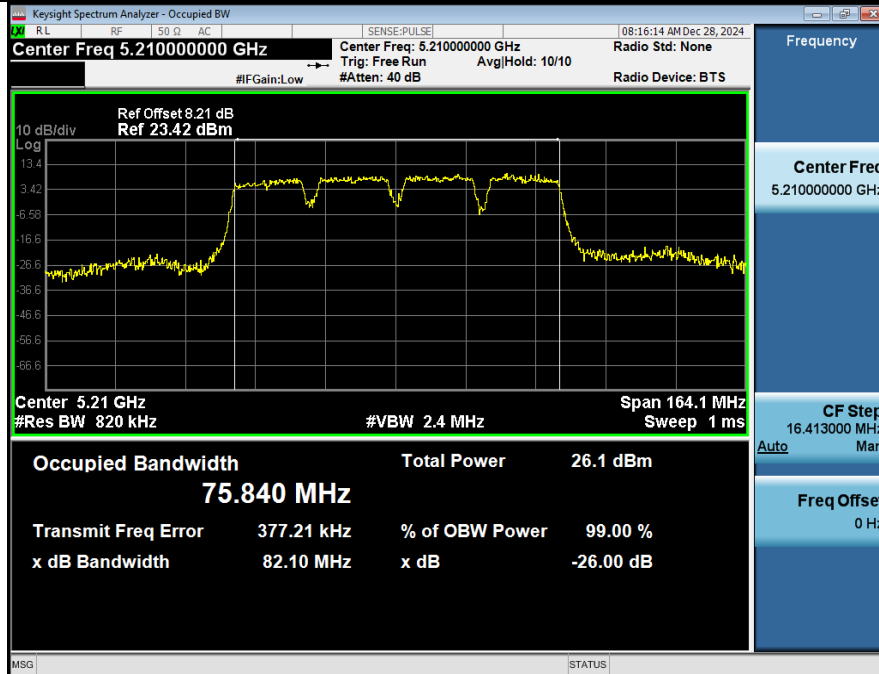
## -26BW\_NVNT\_ANT1\_802\_11ax(HE80)\_5210



## 99%\_OCB\_NVNT\_ANT2\_802\_11ax(HE80)\_5210



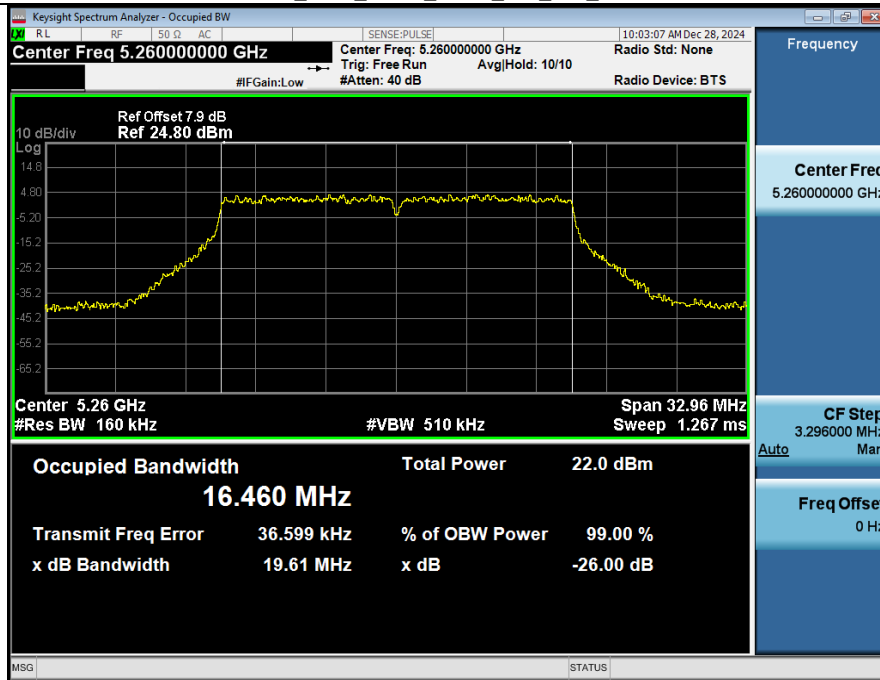
## -26BW\_NVNT\_ANT2\_802\_11ax(HE80)\_5210



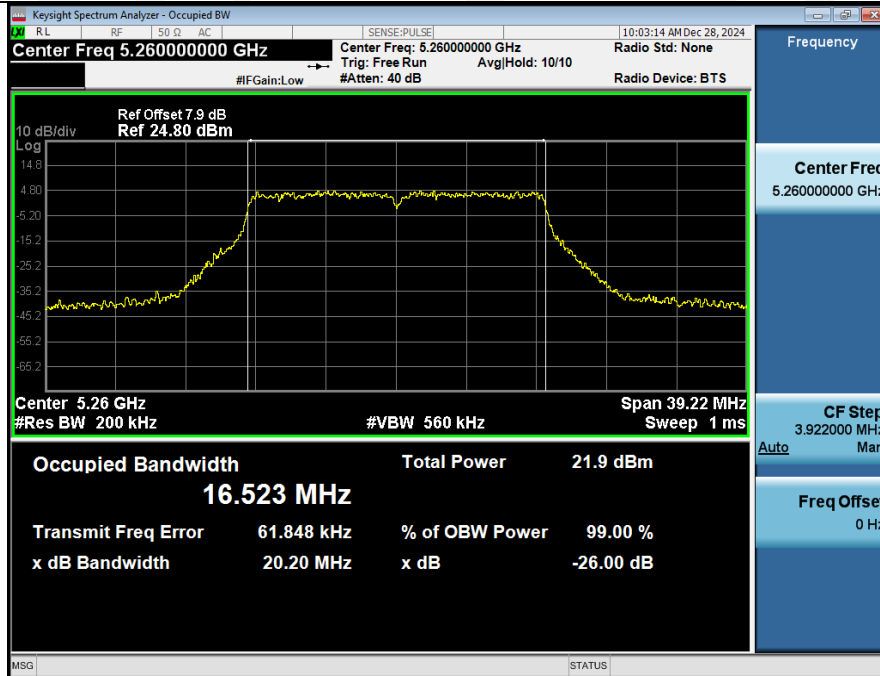
**Band 2 (5260-5320 MHz):**

| Condition | Antenna | Modulation       | Frequency(MHz) | 26dB_Emission_Bandwidth(MHz) | Occupied Bandwidth(MHz) |
|-----------|---------|------------------|----------------|------------------------------|-------------------------|
| NVNT      | ANT1    | 802.11a          | 5260.00        | 20.20                        | 16.46                   |
| NVNT      | ANT2    | 802.11a          | 5260.00        | 19.83                        | 16.48                   |
| NVNT      | ANT1    | 802.11a          | 5300.00        | 20.34                        | 16.46                   |
| NVNT      | ANT2    | 802.11a          | 5300.00        | 19.97                        | 16.46                   |
| NVNT      | ANT1    | 802.11a          | 5320.00        | 19.77                        | 16.45                   |
| NVNT      | ANT2    | 802.11a          | 5320.00        | 19.73                        | 16.47                   |
| NVNT      | ANT1    | 802.11n(HT20)    | 5260.00        | 19.62                        | 16.44                   |
| NVNT      | ANT2    | 802.11n(HT20)    | 5260.00        | 19.94                        | 16.46                   |
| NVNT      | ANT1    | 802.11n(HT20)    | 5300.00        | 19.70                        | 16.45                   |
| NVNT      | ANT2    | 802.11n(HT20)    | 5300.00        | 19.56                        | 16.46                   |
| NVNT      | ANT1    | 802.11n(HT20)    | 5320.00        | 19.54                        | 16.48                   |
| NVNT      | ANT2    | 802.11n(HT20)    | 5320.00        | 19.85                        | 16.46                   |
| NVNT      | ANT1    | 802.11ac(VHT20)  | 5260.00        | 19.90                        | 16.47                   |
| NVNT      | ANT2    | 802.11ac(VHT20)  | 5260.00        | 19.57                        | 16.46                   |
| NVNT      | ANT1    | 802.11ac(VHT20)  | 5300.00        | 19.54                        | 16.46                   |
| NVNT      | ANT2    | 802.11ac(VHT20)  | 5300.00        | 19.79                        | 16.44                   |
| NVNT      | ANT1    | 802.11ac(VHT20)  | 5320.00        | 19.73                        | 16.45                   |
| NVNT      | ANT2    | 802.11ac(VHT20)  | 5320.00        | 19.67                        | 16.46                   |
| NVNT      | ANT1    | 802.11n(HT40)    | 5270.00        | 40.83                        | 36.18                   |
| NVNT      | ANT2    | 802.11n(HT40)    | 5270.00        | 40.20                        | 36.22                   |
| NVNT      | ANT1    | 802.11n(HT40)    | 5310.00        | 39.89                        | 36.18                   |
| NVNT      | ANT2    | 802.11n(HT40)    | 5310.00        | 40.16                        | 36.20                   |
| NVNT      | ANT1    | 802.11ac(VHT40)  | 5270.00        | 40.30                        | 36.17                   |
| NVNT      | ANT2    | 802.11ac(VHT40)  | 5270.00        | 40.10                        | 36.20                   |
| NVNT      | ANT1    | 802.11ac(VHT40)  | 5310.00        | 39.80                        | 36.19                   |
| NVNT      | ANT2    | 802.11ac(VHT40)  | 5310.00        | 40.11                        | 36.22                   |
| NVNT      | ANT1    | 802.11ac(VHT80)  | 5290.00        | 81.61                        | 75.70                   |
| NVNT      | ANT2    | 802.11ac(VHT80)  | 5290.00        | 82.50                        | 75.68                   |
| NVNT      | ANT1    | 802.11ax(HE20)   | 5260.00        | 19.83                        | 16.45                   |
| NVNT      | ANT2    | 802.11ax(HE20)   | 5260.00        | 19.73                        | 16.47                   |
| NVNT      | ANT1    | 802.11ax(HE20)   | 5300.00        | 19.75                        | 16.46                   |
| NVNT      | ANT2    | 802.11ax(HE20)   | 5300.00        | 19.52                        | 16.47                   |
| NVNT      | ANT1    | 802.11ax(HE20)   | 5320.00        | 20.07                        | 16.45                   |
| NVNT      | ANT2    | 802.11ax(HE20)   | 5320.00        | 19.84                        | 16.46                   |
| NVNT      | ANT1    | 802.11ax(HE40)   | 5270.00        | 39.76                        | 36.19                   |
| NVNT      | ANT2    | 802.11ax(HE40)   | 5270.00        | 39.90                        | 36.19                   |
| NVNT      | ANT1    | 802.11ax(HE40)   | 5310.00        | 40.04                        | 36.17                   |
| NVNT      | ANT2    | 802.11ax(HE40)   | 5310.00        | 39.72                        | 36.16                   |
| NVNT      | ANT1    | 802.11ax(HE80)   | 5290.00        | 82.43                        | 75.71                   |
| NVNT      | ANT2    | 802.11ax(HE80)   | 5290.00        | 81.01                        | 75.74                   |
| NVNT      | ANT1    | 802.11ac(VHT160) | 5250.00        | 289.09                       | 155.05                  |
| NVNT      | ANT2    | 802.11ac(VHT160) | 5250.00        | 394.40                       | 156.73                  |
| NVNT      | ANT1    | 802.11ax(HE160)  | 5250.00        | 446.51                       | 155.10                  |
| NVNT      | ANT2    | 802.11ax(HE160)  | 5250.00        | 335.47                       | 156.43                  |

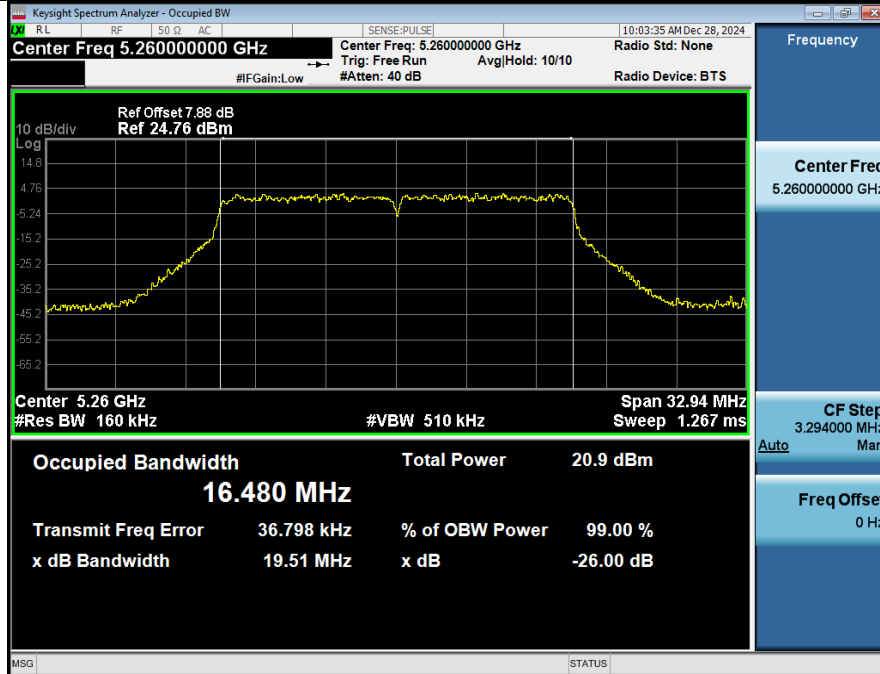
## 99%\_OCB\_NVNT\_ANT1\_802\_11a\_5260



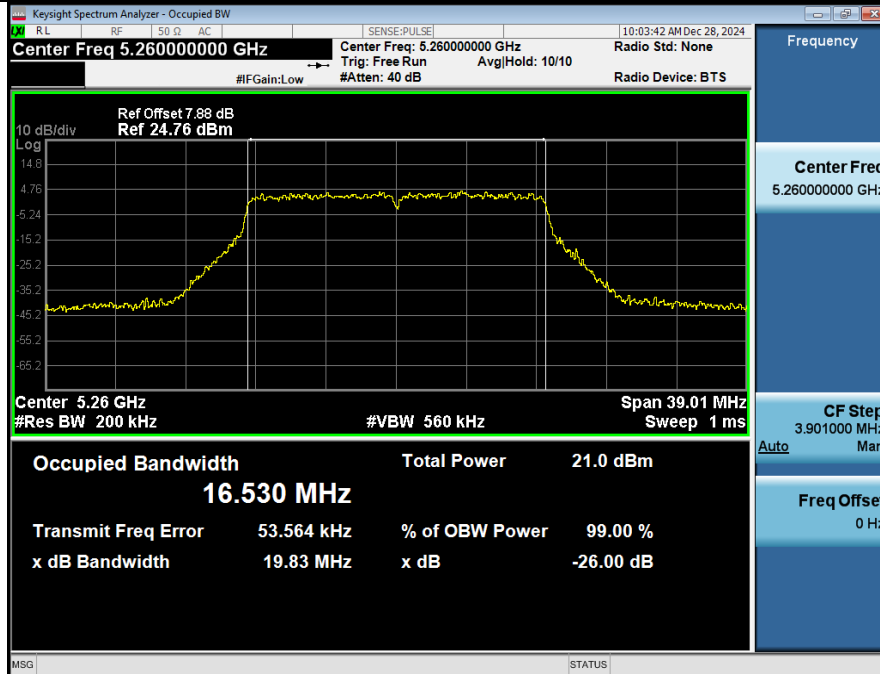
## -26BW\_NVNT\_ANT1\_802\_11a\_5260



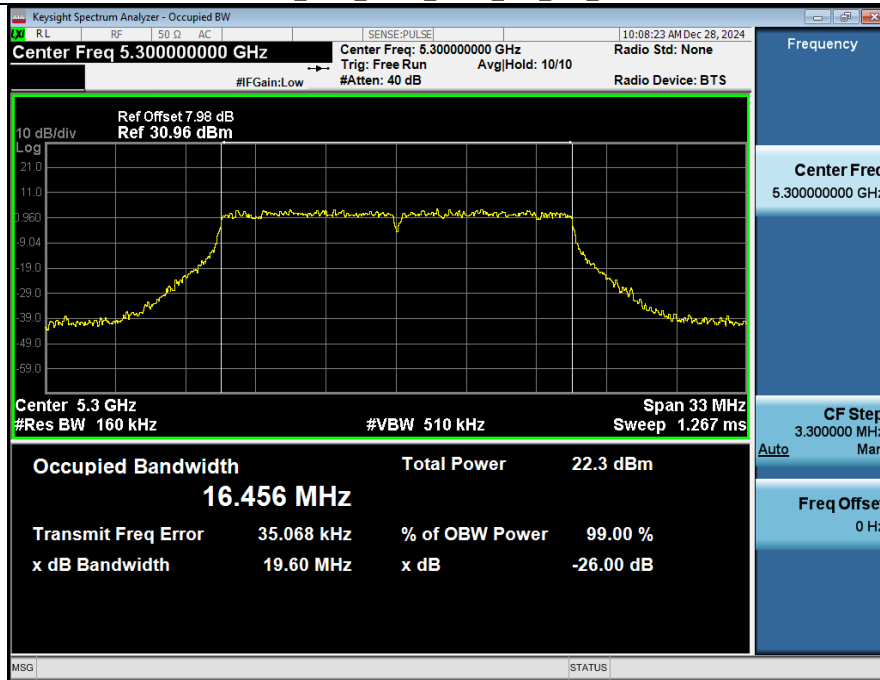
## 99%\_OCB\_NVNT\_ANT2\_802\_11a\_5260



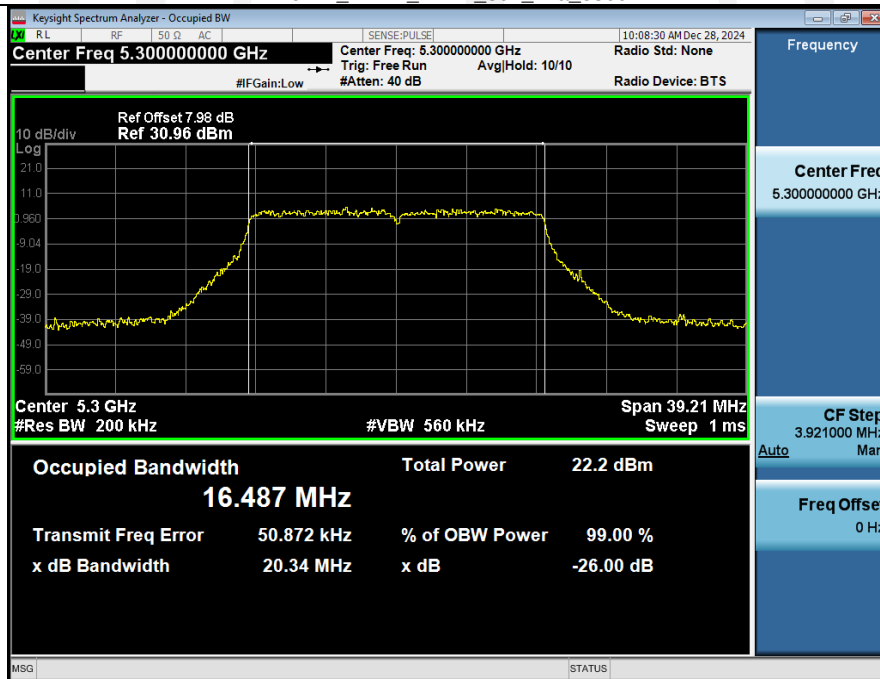
## -26BW\_NVNT\_ANT2\_802\_11a\_5260



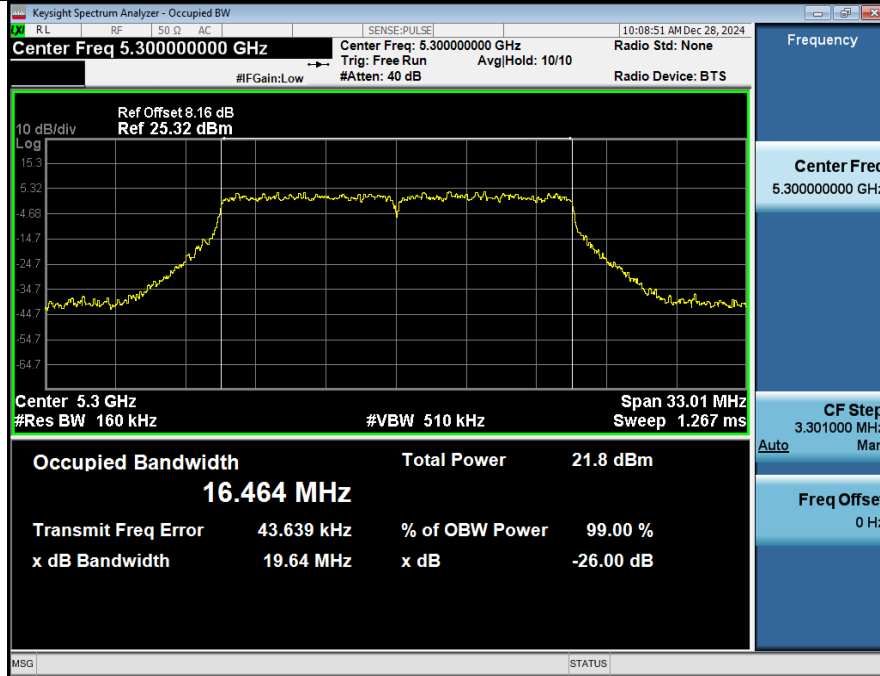
## 99%\_OCB\_NVNT\_ANT1\_802\_11a\_5300



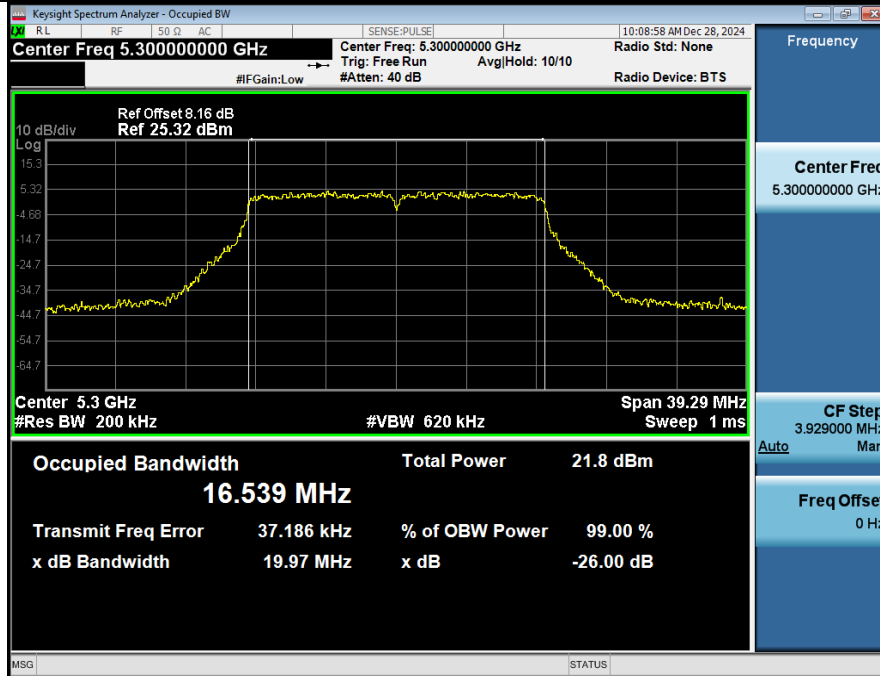
## -26BW\_NVNT\_ANT1\_802\_11a\_5300



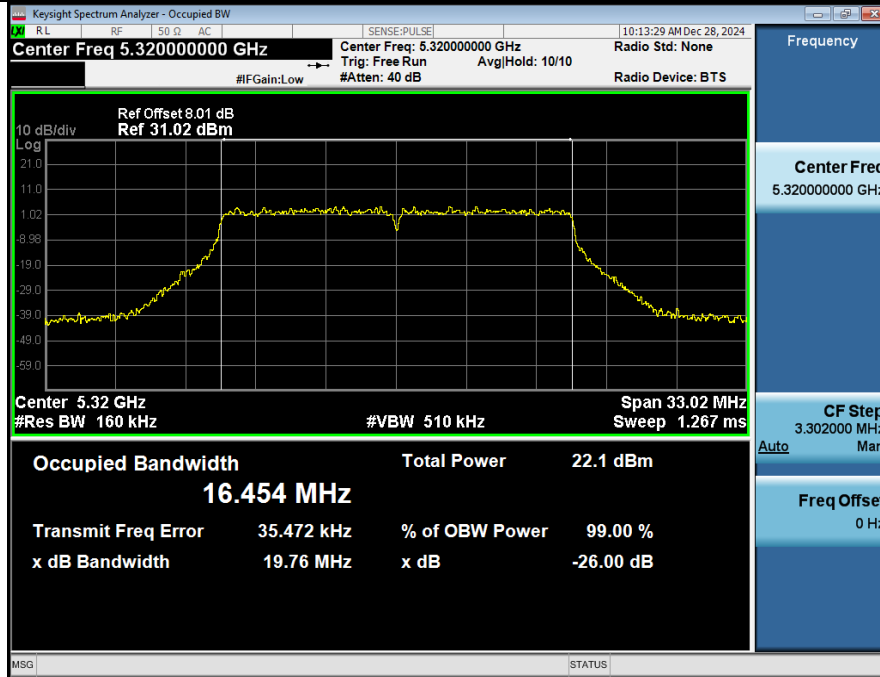
## 99%\_OCB\_NVNT\_ANT2\_802\_11a\_5300



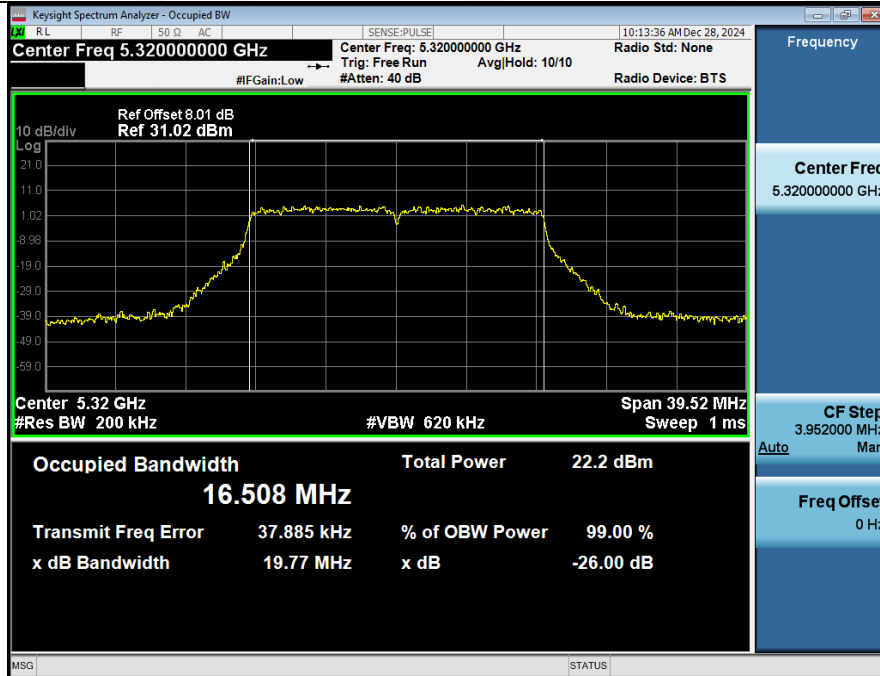
## -26BW\_NVNT\_ANT2\_802\_11a\_5300



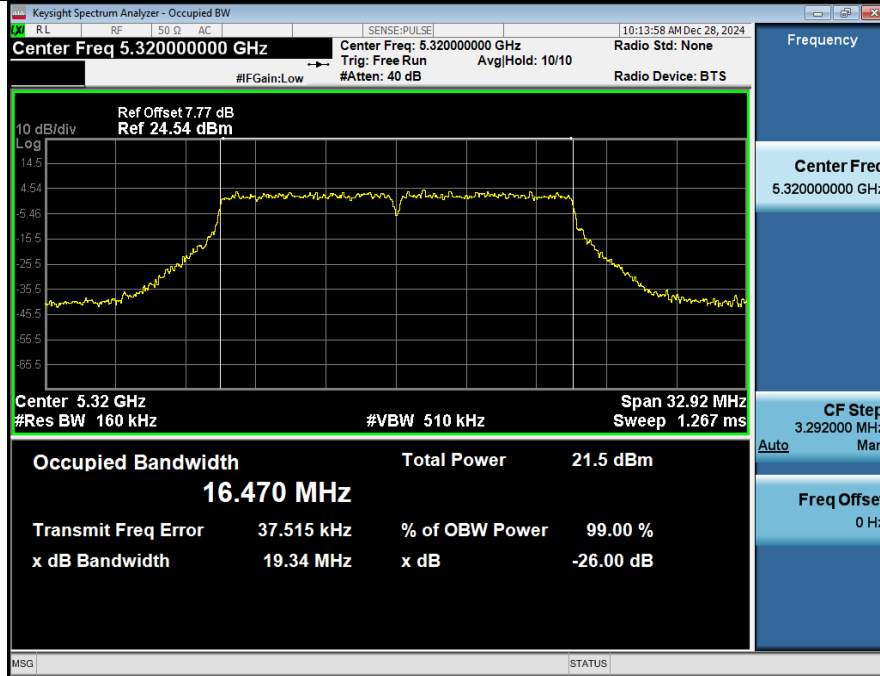
## 99%\_OCB\_NVNT\_ANT1\_802\_11a\_5320



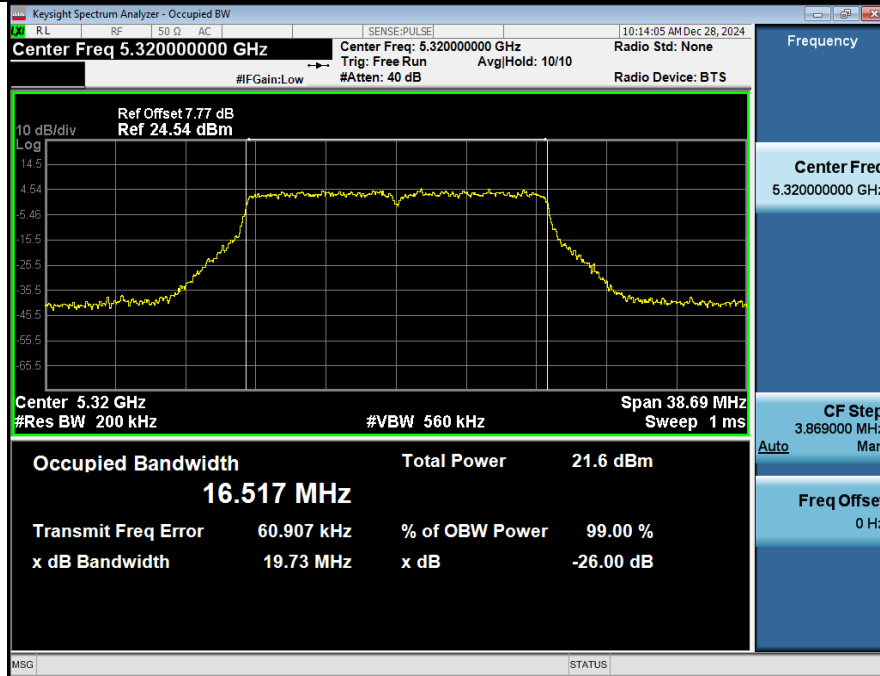
## -26BW\_NVNT\_ANT1\_802\_11a\_5320



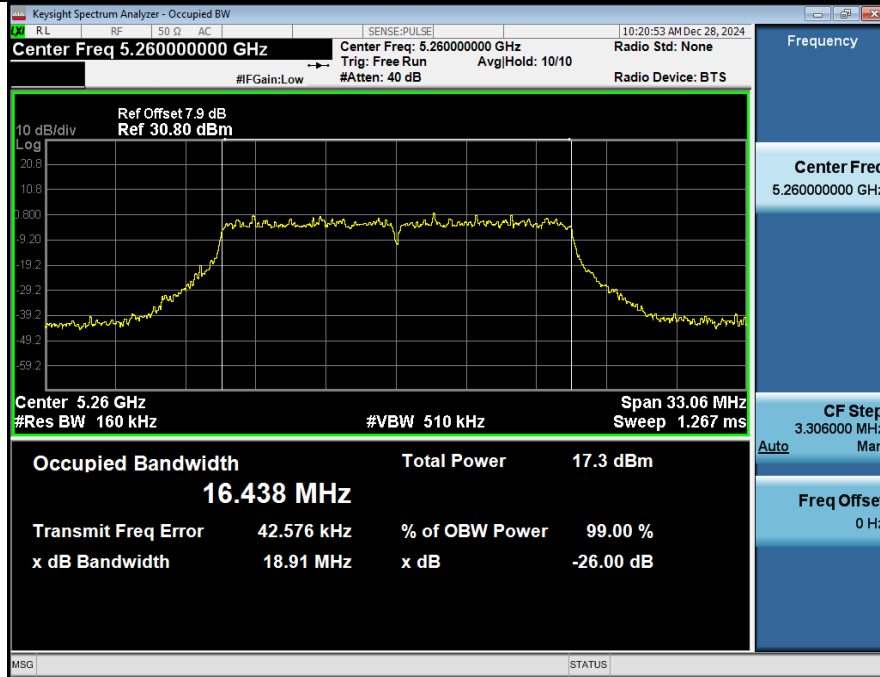
## 99%\_OCB\_NVNT\_ANT2\_802\_11a\_5320



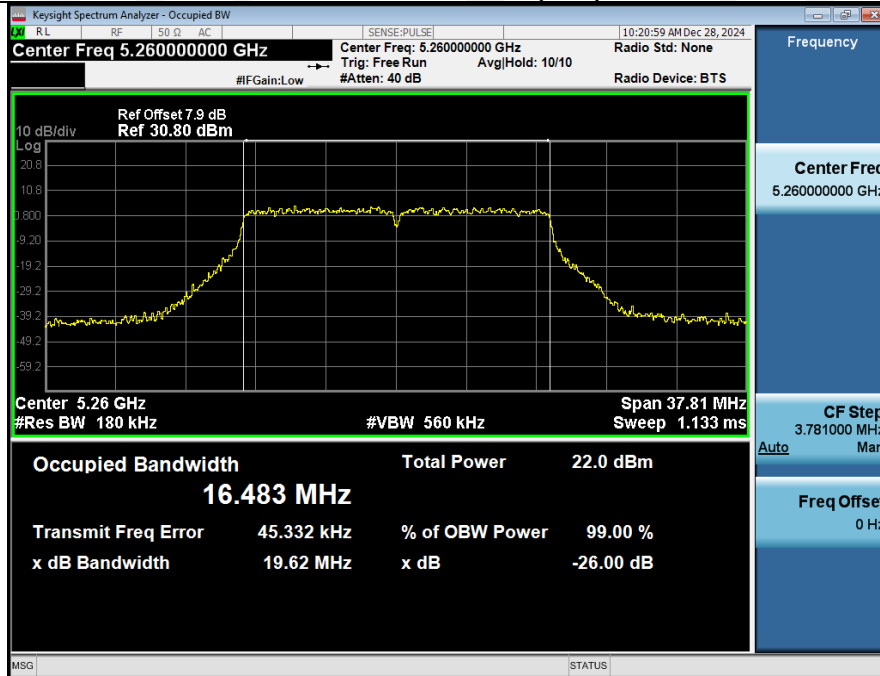
## -26BW\_NVNT\_ANT2\_802\_11a\_5320



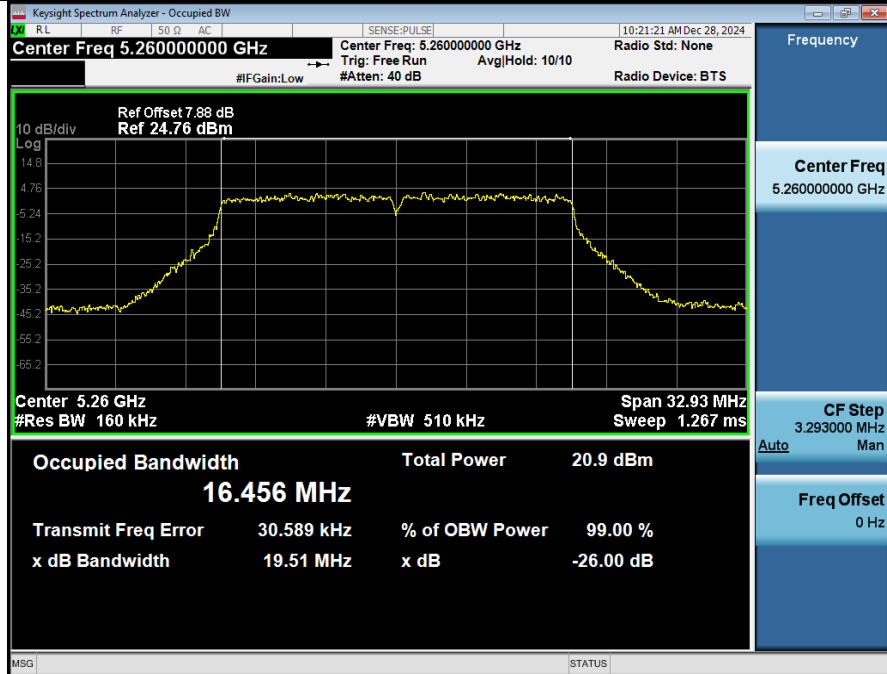
## 99%\_OCB\_NVNT\_ANT1\_802\_11n(HT20)\_5260



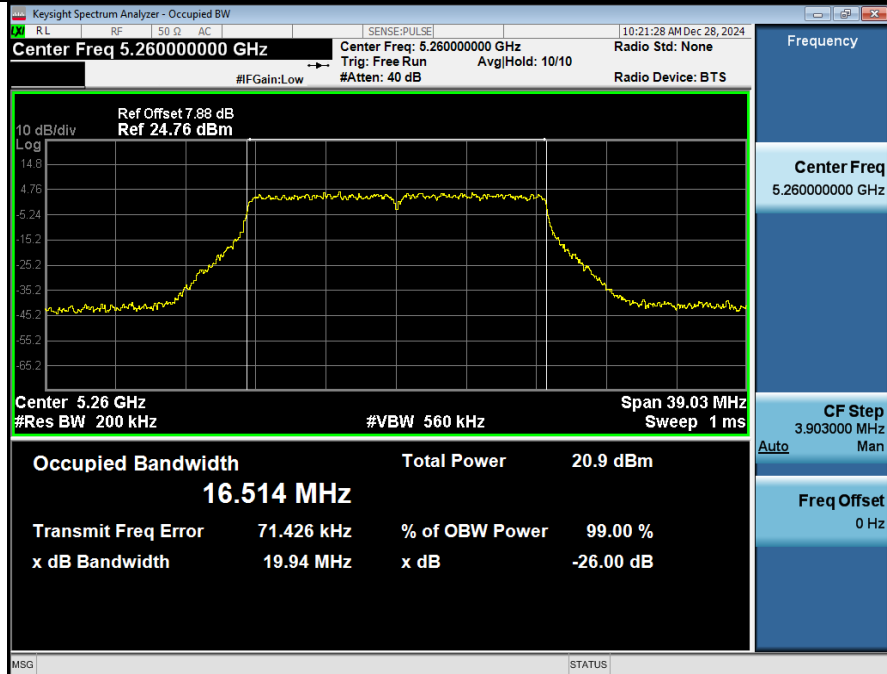
## -26BW\_NVNT\_ANT1\_802\_11n(HT20)\_5260



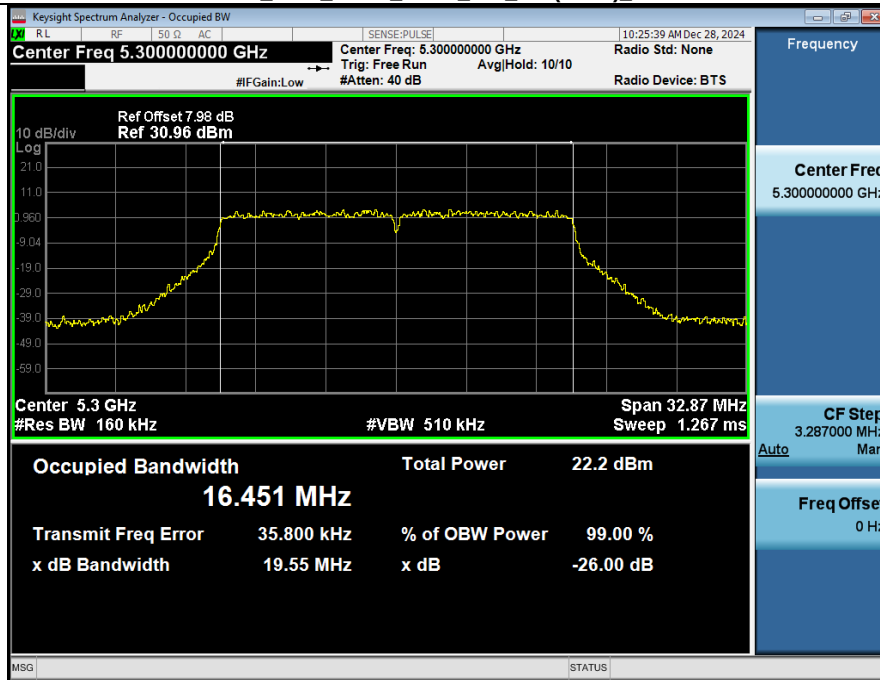
## 99%\_OCB\_NVNT\_ANT2\_802\_11n(HT20)\_5260



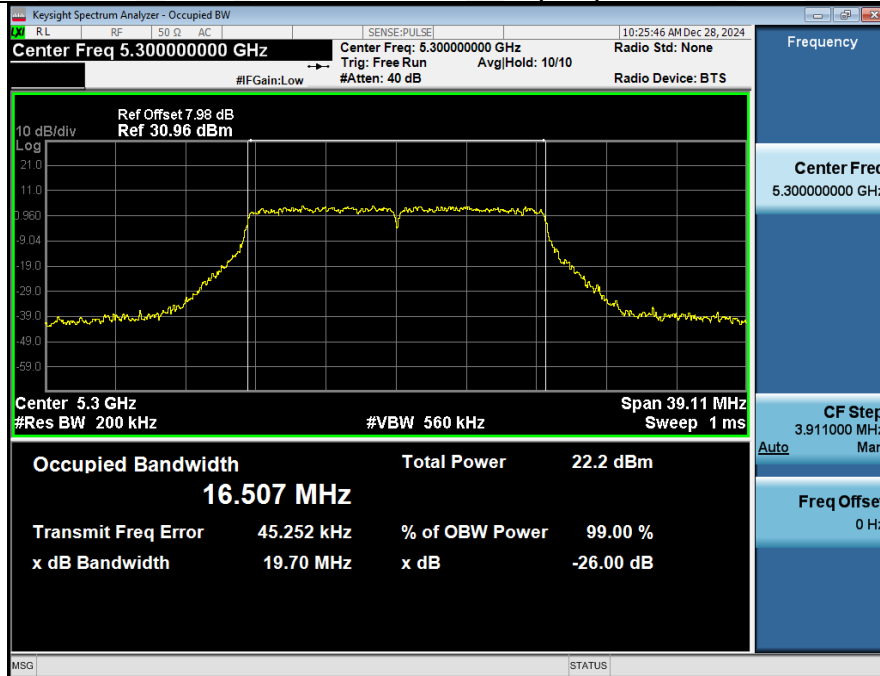
## -26BW\_NVNT\_ANT2\_802\_11n(HT20)\_5260



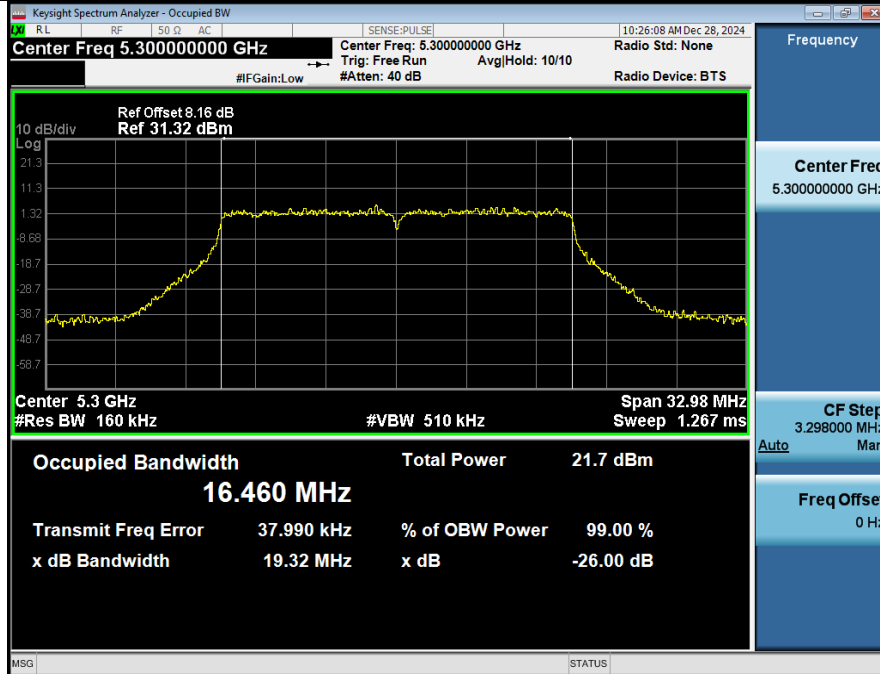
## 99%\_OCB\_NVNT\_ANT1\_802\_11n(HT20)\_5300



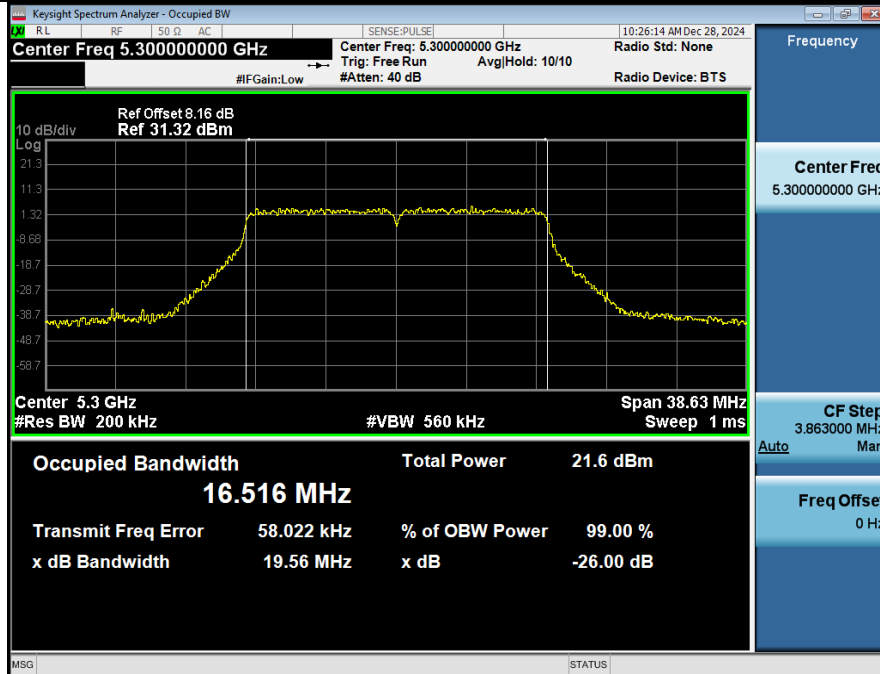
## -26BW\_NVNT\_ANT1\_802\_11n(HT20)\_5300



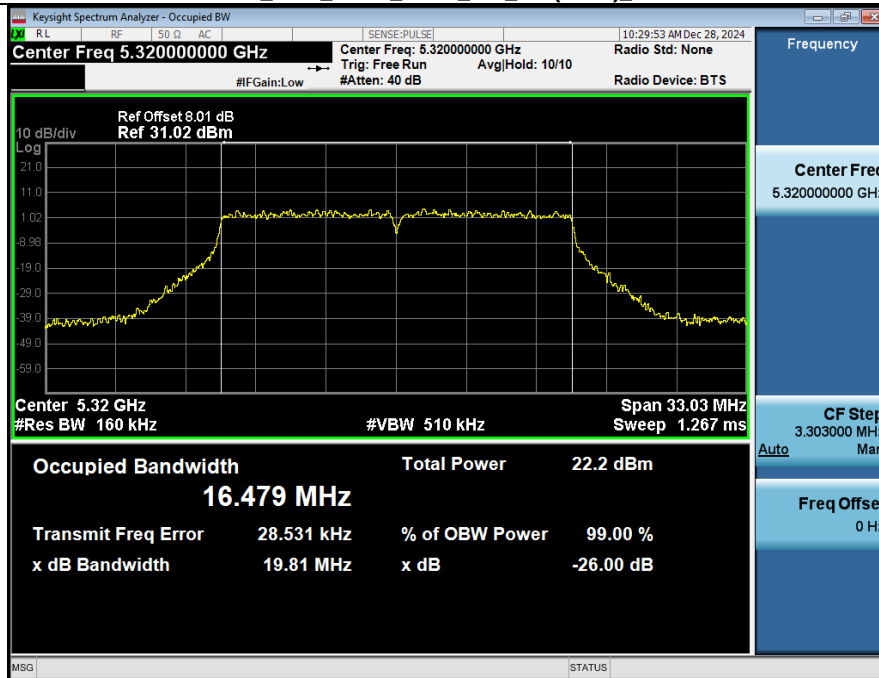
## 99%\_OCB\_NVNT\_ANT2\_802\_11n(HT20)\_5300



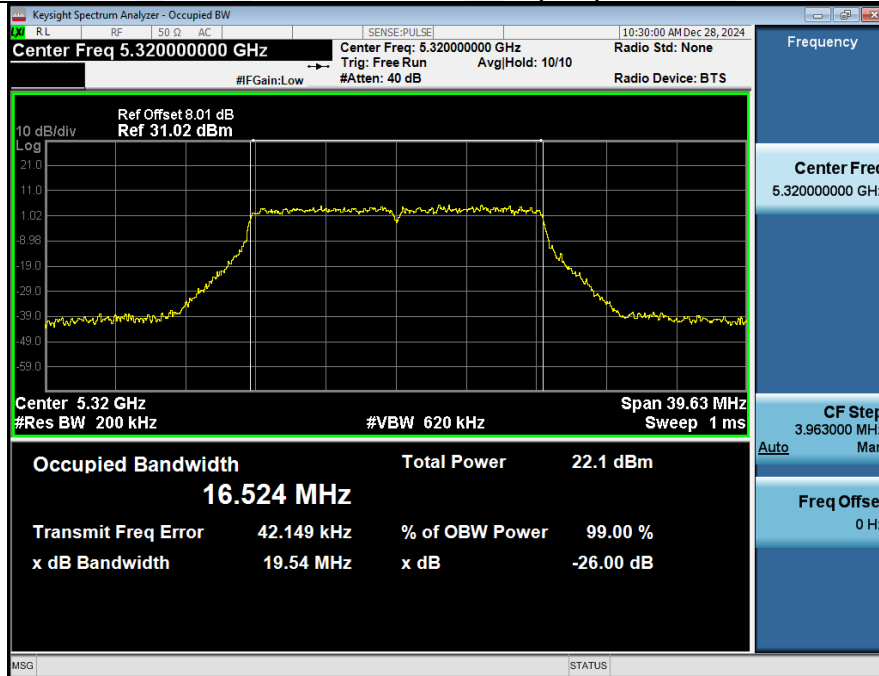
## -26BW\_NVNT\_ANT2\_802\_11n(HT20)\_5300



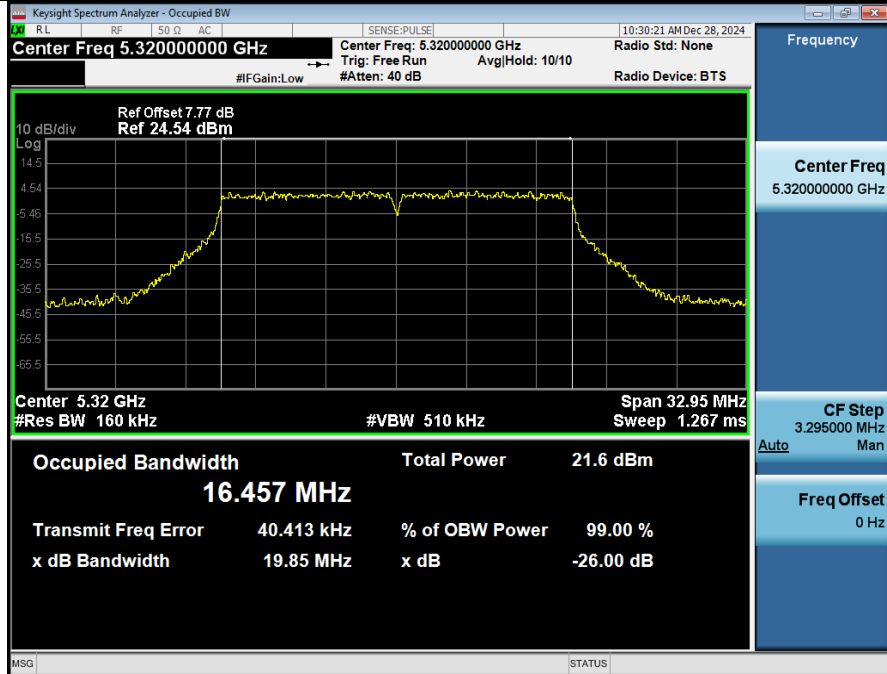
## 99%\_OCB\_NVNT\_ANT1\_802\_11n(HT20)\_5320



## -26BW\_NVNT\_ANT1\_802\_11n(HT20)\_5320



## 99%\_OCB\_NVNT\_ANT2\_802\_11n(HT20)\_5320



## -26BW\_NVNT\_ANT2\_802\_11n(HT20)\_5320

