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# FCC Test Report

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Report No.: AGC04138211201FE05

**FCC ID** : 2AAXO-SMC2035

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : MIC STAND KARAOKE SYSTEM

**BRAND NAME** : Singing Machine

**MODEL NAME** : SMC2035, SMC2035XX, SMC2030, SMC2030XX (XX means unit color, it can be A to Z or N/A)

**APPLICANT** : The Singing Machine Company, Inc.

**DATE OF ISSUE** : Jan. 06, 2022

**STANDARD(S)** : FCC Part 15.247

**TEST PROCEDURE(S)**

**REPORT VERSION** : V1.0

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**REPORT REVISE RECORD**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Jan. 06, 2022 | Valid         | Initial Release |

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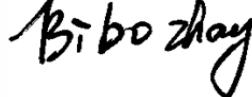
## 1. VERIFICATION OF CONFORMITY

|                                  |  |
|----------------------------------|--|
| <b>Applicant</b>                 | The Singing Machine Company, Inc.  |
| <b>Address</b>                   | 6301 NW 5th Way, Suite 2900, Fort Lauderdale, FL, 33309, U.S.A.  |
| <b>Manufacturer</b>              | ZHUHAI FULLWING ELECTRONIC CO., LTD ZHONGSHAN BRANCH   |
| <b>Address</b>                   | 4/F & 5/F, No 10, Xingye Road, Xinxu, San Xiang, Zhongshan, Guangdong, China                                 |
| <b>Factory</b>                   | ZHUHAI FULLWING ELECTRONIC CO., LTD ZHONGSHAN BRANCH   |
| <b>Address</b>                   | 4/F & 5/F, No 10, Xingye Road, Xinxu, San Xiang, Zhongshan, Guangdong, China                                 |
| <b>Product Designation</b>       | MIC STAND KARAOKE SYSTEM   |
| <b>Brand Name</b>                | Singing Machine  |
| <b>Test Model</b>                | SMC2035  |
| <b>Series Model</b>              | SMC2035XX, SMC2030, SMC2030XX (XX means unit color, it can be A to Z or N/A)                                 |
| <b>Declaration of Difference</b> | All the series models are the same as the test model except for the model names and the color of appearance. |
| <b>Date of test</b>              | Dec. 09, 2021 to Jan. 06, 2022   |
| <b>Deviation</b>                 | No any deviation from the test method  |
| <b>Condition of Test Sample</b>  | Normal   |
| <b>Test Result</b>               | Pass   |
| <b>Report Template</b>           | AGCRT-US-BGN/RF  |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By



Bibo Zhang  
(Project Engineer)

Jan. 06, 2022

Reviewed By



Calvin Liu  
(Reviewer)

Jan. 06, 2022

Approved By



Max Zhang  
(Authorized Officer)

Jan. 06, 2022

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as "MIC STAND KARAOKE SYSTEM". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

|                               |   |
|-------------------------------|---|
| <b>Operation Frequency</b>    | 2.412 GHz~2.462GHz  |
| <b>Output Power (Average)</b> | IEEE 802.11b:14.74dBm; IEEE 802.11g:10.08dBm;<br>IEEE 802.11n(20):10.35dBm; IEEE 802.11n(40): 9.08dBm |
| <b>Output Power (Peak)</b>    | IEEE 802.11b:17.47dBm; IEEE 802.11g:17.73dBm;<br>IEEE 802.11n(20):18.12dBm; IEEE 802.11n(40):16.86dBm |
| <b>Modulation</b>             | DSSS(DBPSK/DQPSK/CCK); OFDM(BPSK/QPSK/16-QAM/64-QAM)  |
| <b>Number of channels</b>     | 11  |
| <b>Hardware Version</b>       | 1.0   |
| <b>Software Version</b>       | 1.0   |
| <b>Antenna Designation</b>    | PCB Antenna (Comply with requirements of the FCC part 15.203)   |
| <b>Antenna Gain</b>           | 0dBi  |
| <b>Power Supply</b>           | DC 16.1V by adapter   |

### 2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHZ | 1              | 2412 MHZ  |
|                | 2              | 2417 MHZ  |
|                | 3              | 2422 MHZ  |
|                | 4              | 2427 MHZ  |
|                | 5              | 2432 MHZ  |
|                | 6              | 2437 MHZ  |
|                | 7              | 2442 MHZ  |
|                | 8              | 2447 MHZ  |
|                | 9              | 2452 MHZ  |
|                | 10             | 2457 MHZ  |
|                | 11             | 2462 MHZ  |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11. For 40MHZ bandwidth system use Channel 3 to Channel 9

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### 2.3. IEEE 802.11N MODULATION SCHEME

| MCS Index | Nss | Modulation | R   | NBPSC | NCBPS |       | NDBPS |       | Data rate(Mbps) |       |
|-----------|-----|------------|-----|-------|-------|-------|-------|-------|-----------------|-------|
|           |     |            |     |       | 20MHz |       | 40MHz |       | 20MHz           |       |
|           |     |            |     |       | 20MHz | 40MHz | 20MHz | 40MHz | 20MHz           | 40MHz |
| 0         | 1   | BPSK       | 1/2 | 1     | 52    | 108   | 26    | 54    | 6.5             | 13.5  |
| 1         | 1   | QPSK       | 1/2 | 2     | 104   | 216   | 52    | 108   | 13.0            | 27.0  |
| 2         | 1   | QPSK       | 3/4 | 2     | 104   | 216   | 78    | 162   | 19.5            | 40.5  |
| 3         | 1   | 16-QAM     | 1/2 | 4     | 208   | 432   | 104   | 216   | 26.0            | 54.0  |
| 4         | 1   | 16-QAM     | 3/4 | 4     | 208   | 432   | 156   | 324   | 39.0            | 81.0  |
| 5         | 1   | 64-QAM     | 2/3 | 6     | 312   | 648   | 208   | 432   | 52.0            | 108.0 |
| 6         | 1   | 64-QAM     | 3/4 | 6     | 312   | 648   | 234   | 489   | 58.5            | 121.5 |
| 7         | 1   | 64-QAM     | 5/6 | 6     | 312   | 648   | 260   | 540   | 65.0            | 135.0 |

| Symbol | Explanation                             |
|--------|---|
| NSS    | Number of spatial streams               |
| R      | Code rate                               |
| NBPSC  | Number of coded bits per single carrier |
| NCBPS  | Number of coded bits per symbol         |
| NDBPS  | Number of data bits per symbol          |
| GI     | Guard interval                          |

### 2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AAKO-SMC2035** filing to comply with the FCC Part 15 requirements.

### 2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

### 2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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## 2.8. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

| Item  | Measurement Uncertainty    |
|---|----------------------------|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 3.1 \text{ dB}$ |
| Uncertainty of Radiated Emission below 1GHz   | $U_c = \pm 4.0 \text{ dB}$ |
| Uncertainty of Radiated Emission above 1GHz   | $U_c = \pm 4.8 \text{ dB}$ |
| Uncertainty of total RF power, conducted      | $U_c = \pm 0.8 \text{ dB}$ |
| Uncertainty of RF power density, conducted    | $U_c = \pm 2.6 \text{ dB}$ |
| Uncertainty of spurious emissions, conducted  | $U_c = \pm 2 \%$           |
| Uncertainty of Occupied Channel Bandwidth     | $U_c = \pm 2 \%$           |

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**4. DESCRIPTION OF TEST MODES**

| NO. | TEST MODE DESCRIPTION            |
|-----|----------------------------------|
| 1   | Low channel transmitting (TX)    |
| 2   | Middle channel transmitting (TX) |
| 3   | High channel transmitting (TX)   |

**Note:**  
Transmit by 802.11b with Date rate (1/2/5.5/11)  
Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)  
Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)  
Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)  
The test channel for 20MHZ bandwidth system is channel 1, 6 and 11.  
The test channel for 40MHZ bandwidth system is channel 3, 6 and 9.

**Note:**

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency individually, and the EUT is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. The test software is the iwpriv which can set the EUT into the individual test modes.

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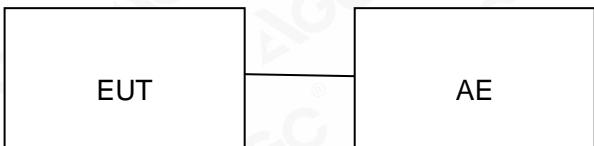
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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment                | Model No.   | ID or Specification                                 | Remark |
|------|--------------------------|-------------|---|--------|
| 1    | MIC STAND KARAOKE SYSTEM | SMC2035     | 2AAXO-SMC2035                                       | EUT    |
| 2    | Adapter                  | K65A161350U | INPUT: 100-240V~50/60Hz 1.5A<br>OUTPUT: 16.1V, 3.5A | AE     |

### 5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST                             | RESULT    |
|-----------|---|-----------|
| §15.247   | Output Power                                    | Compliant |
| §15.247   | 6 dB Bandwidth                                  | Compliant |
| §15.247   | Conducted Spurious Emission                     | Compliant |
| §15.247   | Maximum Conducted Output Power Spectral Density | Compliant |
| §15.209   | Radiated Emission                               | Compliant |
| §15.247   | Band Edges                                      | Compliant |
| §15.207   | Line Conduction Emission                        | Compliant |

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## 6. TEST FACILITY

|                                   |  |
|-----------------------------------|--|
| Test Site                         | Attestation of Global Compliance (Shenzhen) Co., Ltd   |
| Location                          | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Designation Number                | CN1259   |
| FCC Test Firm Registration Number | 975832   |
| A2LA Cert. No.                    | 5054.02  |
| Description                       | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA  |

## TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model            | S/N    | Cal. Date     | Cal. Due      |
|---------------|--------------|------------------|--------|---------------|---------------|
| TEST RECEIVER | R&S          | ESPI             | 101206 | May 15, 2021  | May 14, 2022  |
| LISN          | R&S          | ESH2-Z5          | 100086 | Jun. 09, 2021 | Jun. 08, 2022 |
| Test software | R&S          | ES-K1(Ver.V1.71) | N/A    | N/A           | N/A           |

## TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment                      | Manufacturer   | Model             | S/N        | Cal. Date     | Cal. Due      |
|--------------------------------|----------------|-------------------|------------|---------------|---------------|
| TEST RECEIVER                  | R&S            | ESCI              | 10096      | May 15, 2021  | May 14, 2022  |
| EXA Signal Analyzer            | Aglient        | N9010A            | MY53470504 | Nov. 17, 2021 | Nov. 16, 2022 |
| 2.4GHz Fliter                  | Micro-tronics  | 087               | N/A        | Nov. 17, 2021 | Nov. 16, 2022 |
| Attenuator                     | Weinachel Corp | 58-30-33          | N/A        | Mar. 23, 2020 | Mar. 22, 2022 |
| Horn antenna                   | SCHWARZBECK    | BBHA 9170         | #768       | Sep. 03, 2020 | Sep. 02, 2022 |
| Active loop antenna (9K-30MHz) | ZHINAN         | ZN30900C          | 00034609   | May 22, 2020  | May 21, 2022  |
| Double-Ridged Waveguide Horn   | ETS LINDGREN   | 3117              | 00034609   | Oct. 31, 2021 | Oct. 30, 2023 |
| Broadband Preamplifier         | ETS LINDGREN   | 3117PA            | 00225134   | May 22, 2020  | May 21, 2022  |
| ANTENNA                        | SCHWARZBECK    | VULB9168          | D69250     | Apr. 23, 2021 | Apr. 22, 2022 |
| Test software                  | Tonscend       | JS32-RE (Ver.2.5) | N/A        | N/A           | N/A           |

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## 7. OUTPUT POWER

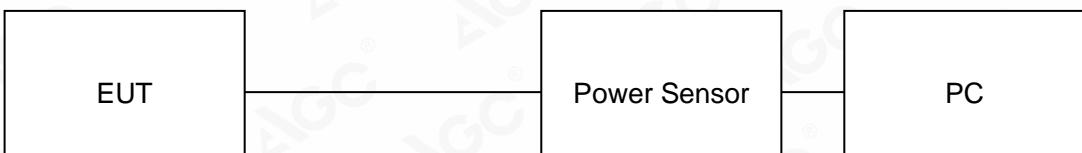
### 7.1. MEASUREMENT PROCEDURE

For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

**Note :** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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### 7.3. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power |                    |                     |                  |              |              |
|-------------------------------------|--------------------|---------------------|------------------|--------------|--------------|
| Test Mode                           | Test Channel (MHz) | Average Power (dBm) | Peak Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11b                             | 2412               | 14.74               | 17.47            | ≤30          | Pass         |
|                                     | 2437               | 13.43               | 16.13            | ≤30          | Pass         |
|                                     | 2462               | 12.37               | 15.09            | ≤30          | Pass         |
| 802.11g                             | 2412               | 10.08               | 17.73            | ≤30          | Pass         |
|                                     | 2437               | 9.20                | 16.83            | ≤30          | Pass         |
|                                     | 2462               | 9.16                | 16.80            | ≤30          | Pass         |
| 802.11n20                           | 2412               | 10.35               | 18.12            | ≤30          | Pass         |
|                                     | 2437               | 9.28                | 17.07            | ≤30          | Pass         |
|                                     | 2462               | 9.21                | 17.01            | ≤30          | Pass         |
| 802.11n40                           | 2422               | 8.46                | 16.25            | ≤30          | Pass         |
|                                     | 2437               | 8.72                | 16.52            | ≤30          | Pass         |
|                                     | 2452               | 9.08                | 16.86            | ≤30          | Pass         |

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## 8. BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

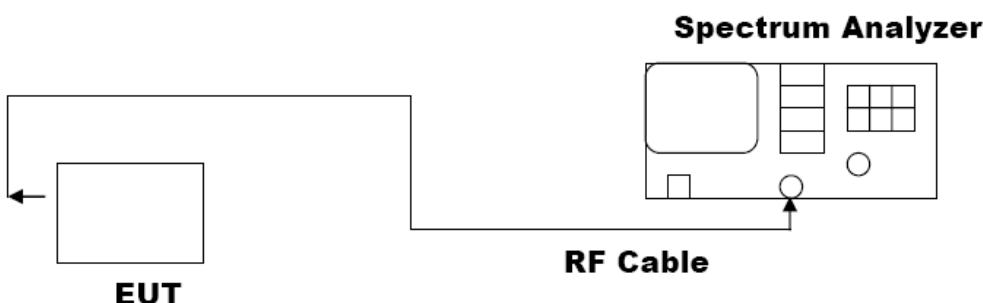
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\geq$ 3 $\times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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### 8.3. LIMITS AND MEASUREMENT RESULTS

| Test Data of Occupied Bandwidth and DTS Bandwidth |                    |                              |                      |              |              |
|---|--------------------|------------------------------|----------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -6dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11b   | 2412               | 13.277                       | 9.055                | ≥0.5         | Pass         |
|   | 2437               | 13.282                       | 9.055                | ≥0.5         | Pass         |
|   | 2462               | 13.296                       | 9.050                | ≥0.5         | Pass         |
| 802.11g   | 2412               | 16.574                       | 16.54                | ≥0.5         | Pass         |
|   | 2437               | 16.577                       | 16.53                | ≥0.5         | Pass         |
|   | 2462               | 16.594                       | 16.55                | ≥0.5         | Pass         |
| 802.11n20   | 2412               | 17.682                       | 17.69                | ≥0.5         | Pass         |
|   | 2437               | 17.683                       | 17.69                | ≥0.5         | Pass         |
|   | 2462               | 17.698                       | 17.71                | ≥0.5         | Pass         |
| 802.11n40   | 2422               | 36.138                       | 36.48                | ≥0.5         | Pass         |
|   | 2437               | 36.148                       | 36.47                | ≥0.5         | Pass         |
|   | 2452               | 36.171                       | 36.48                | ≥0.5         | Pass         |

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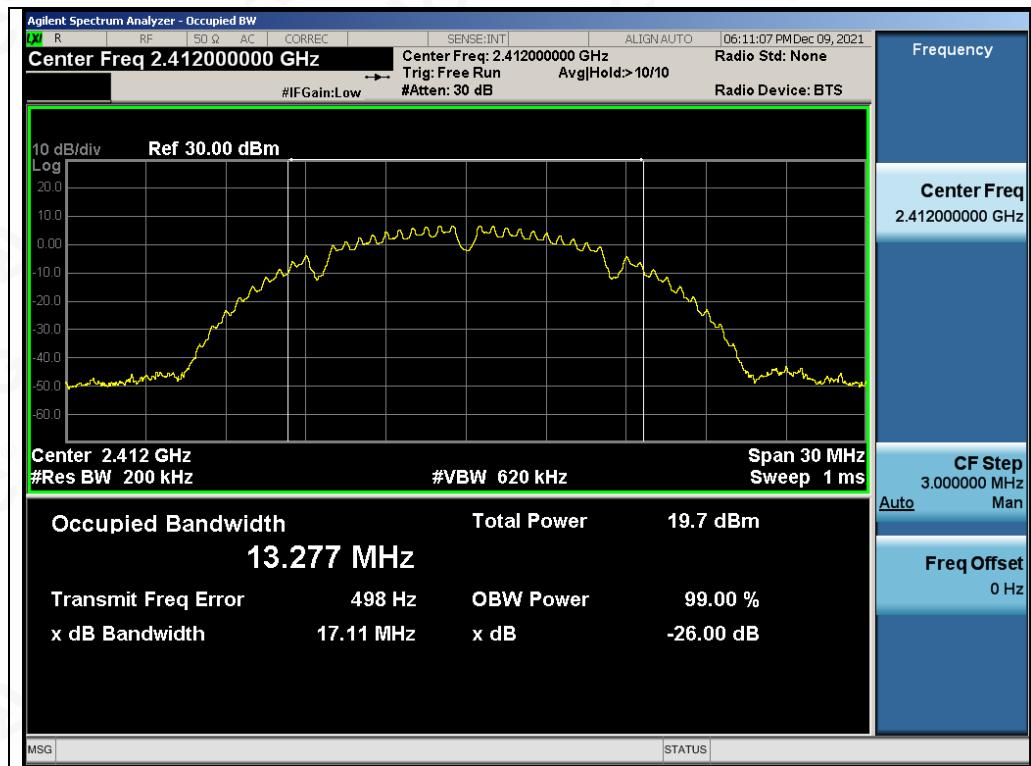
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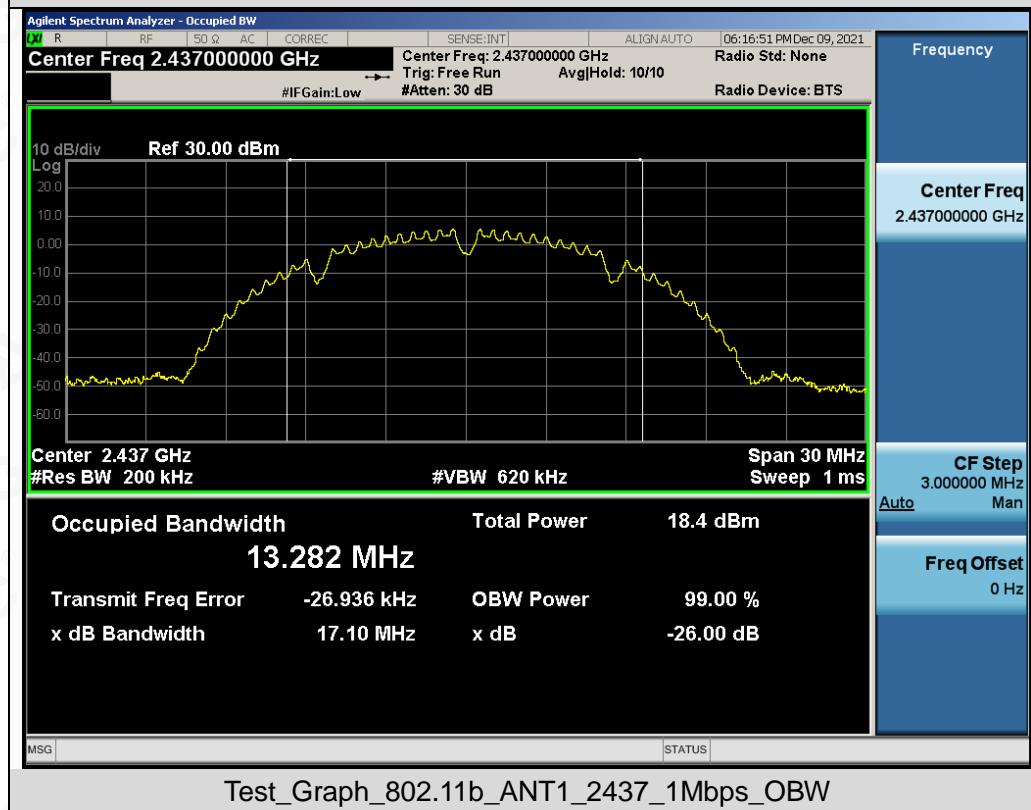
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## Test Graphs of Occupied Bandwidth



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_OBW



Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_OBW

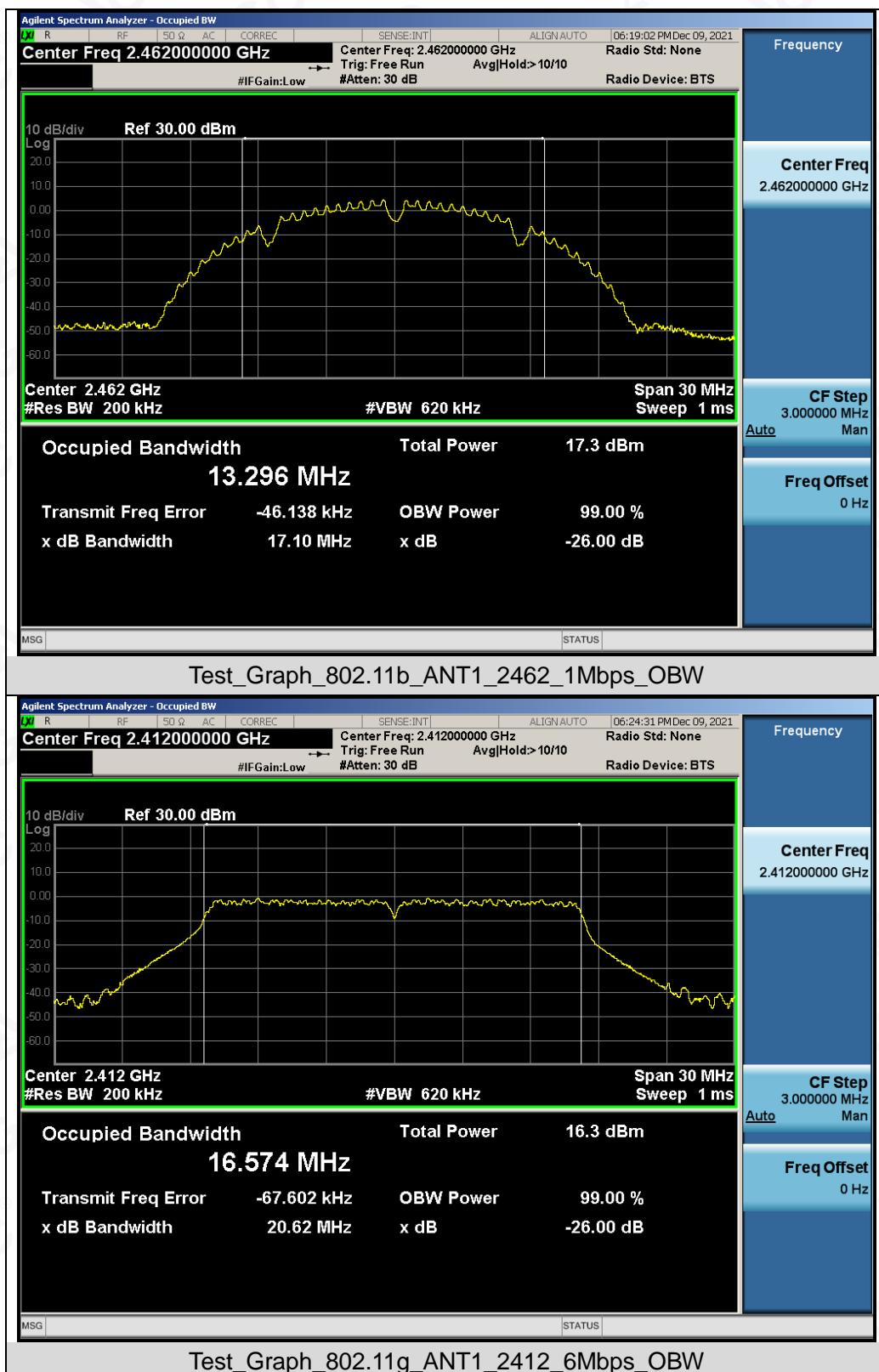
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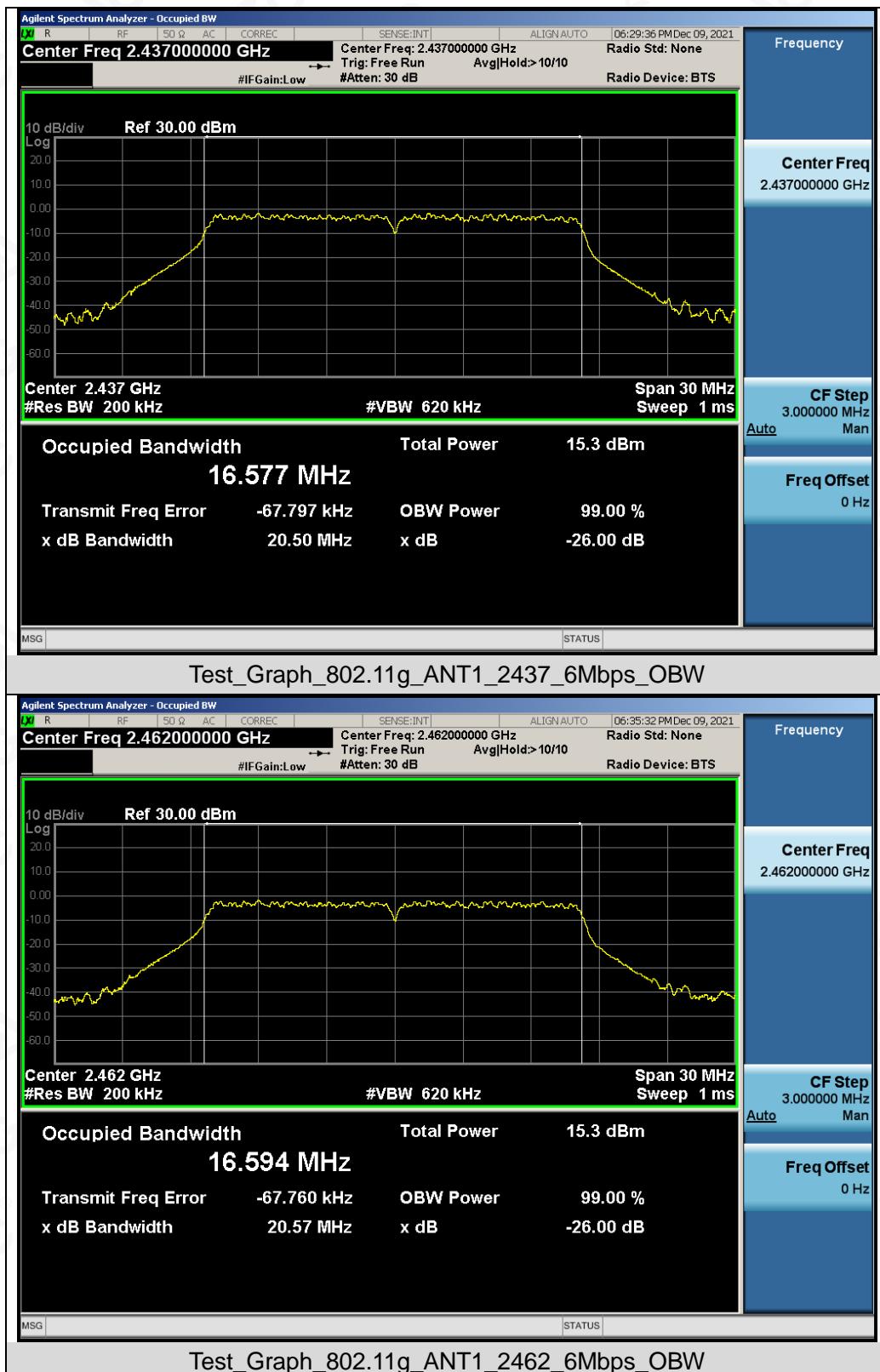
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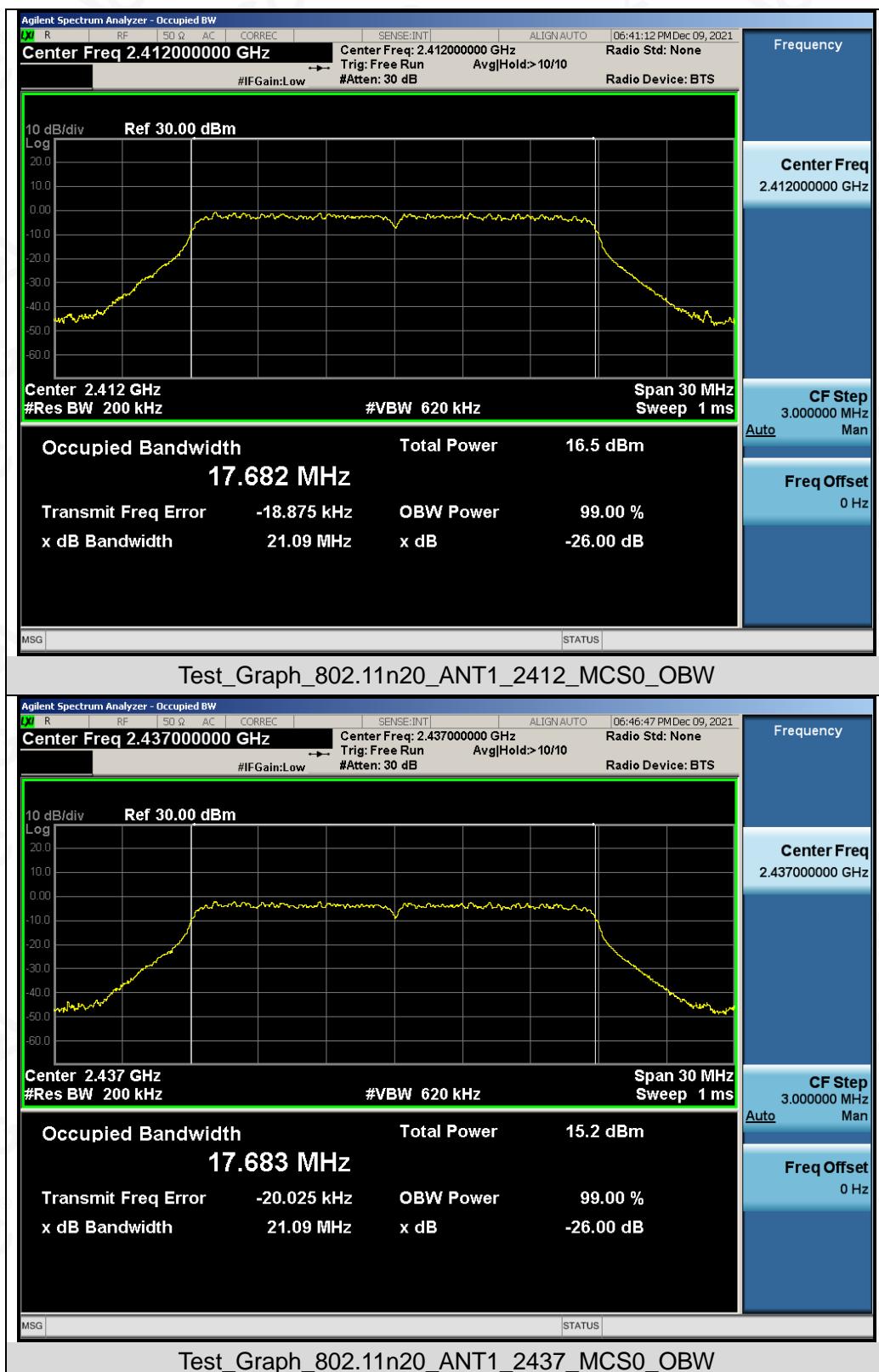
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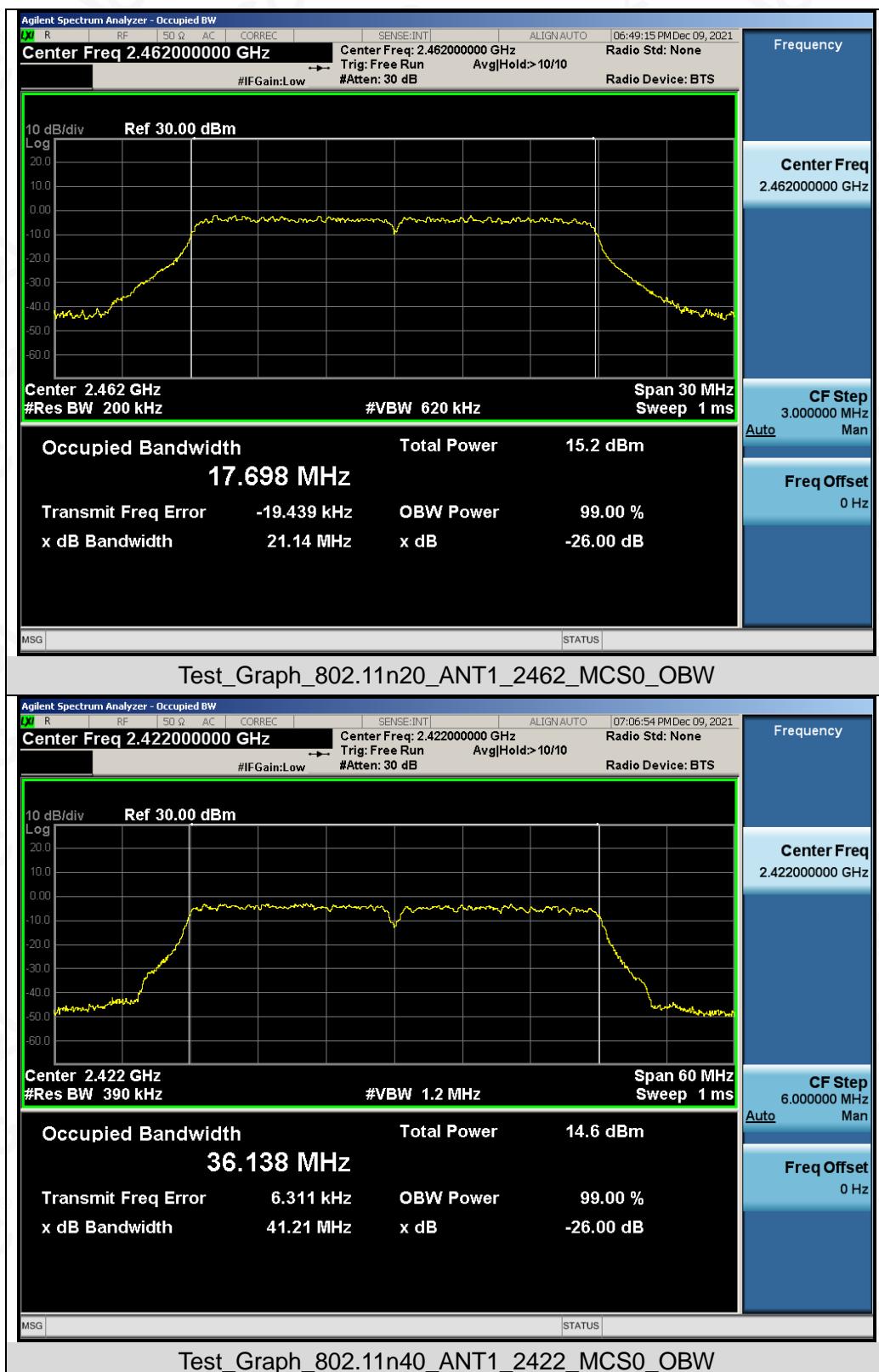
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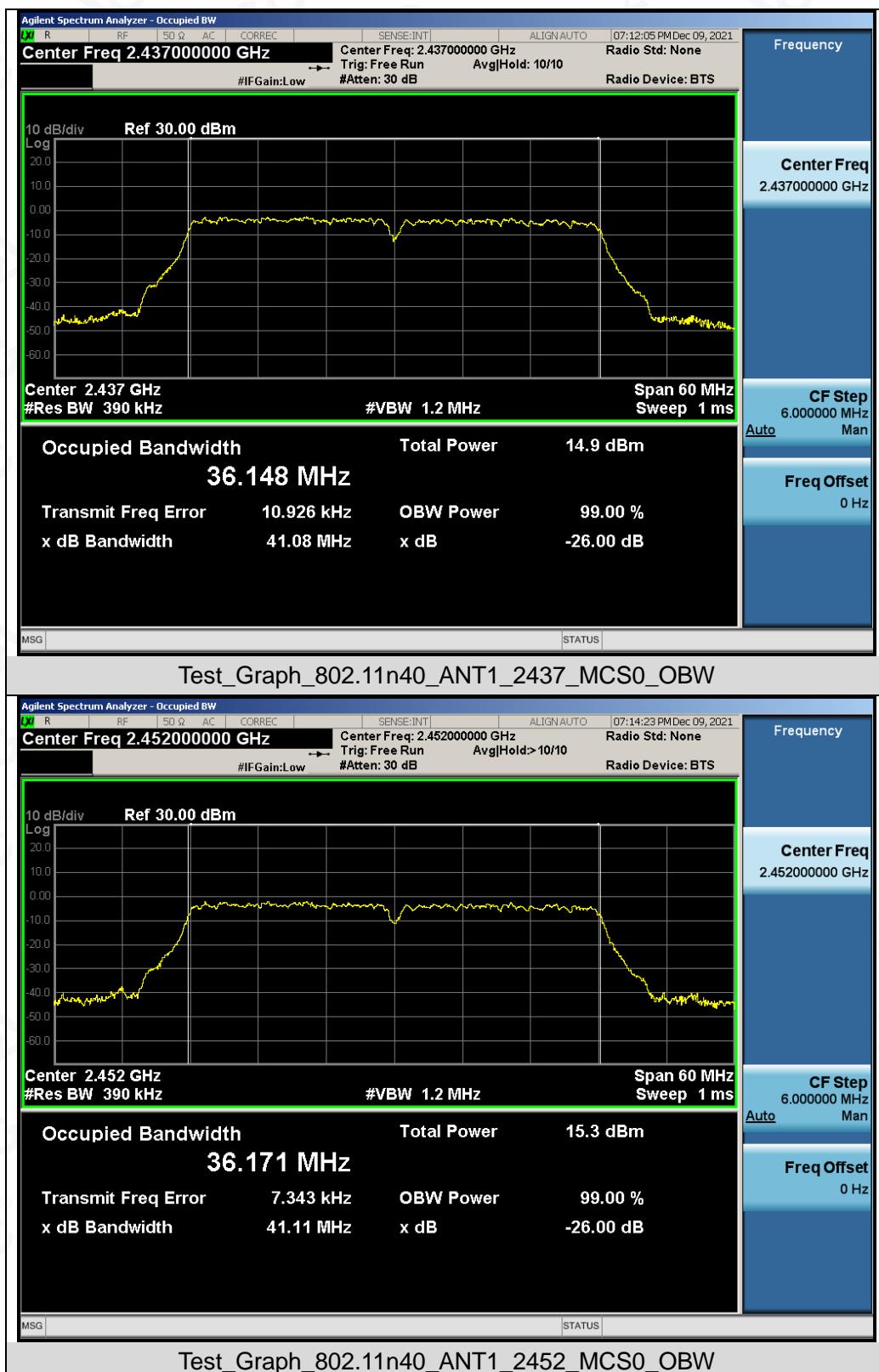
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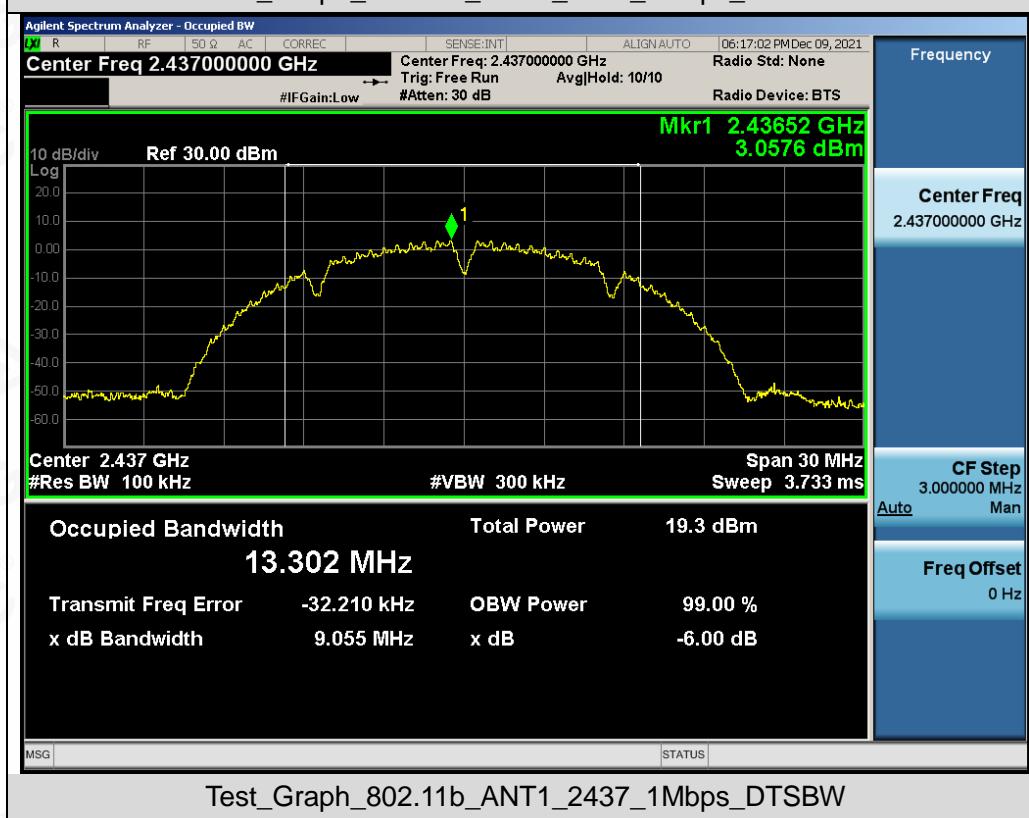
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## Test Graphs of DTS Bandwidth



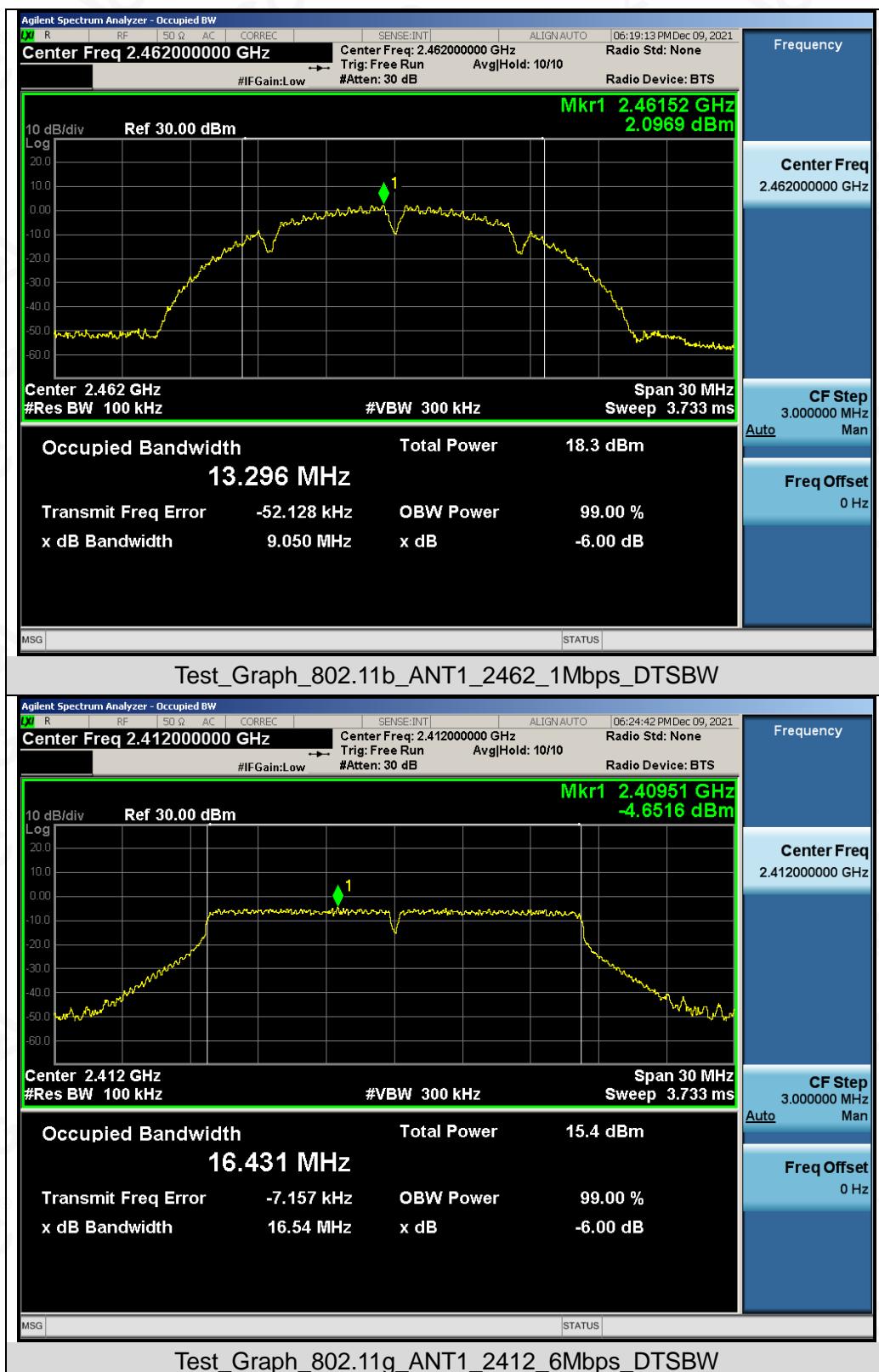
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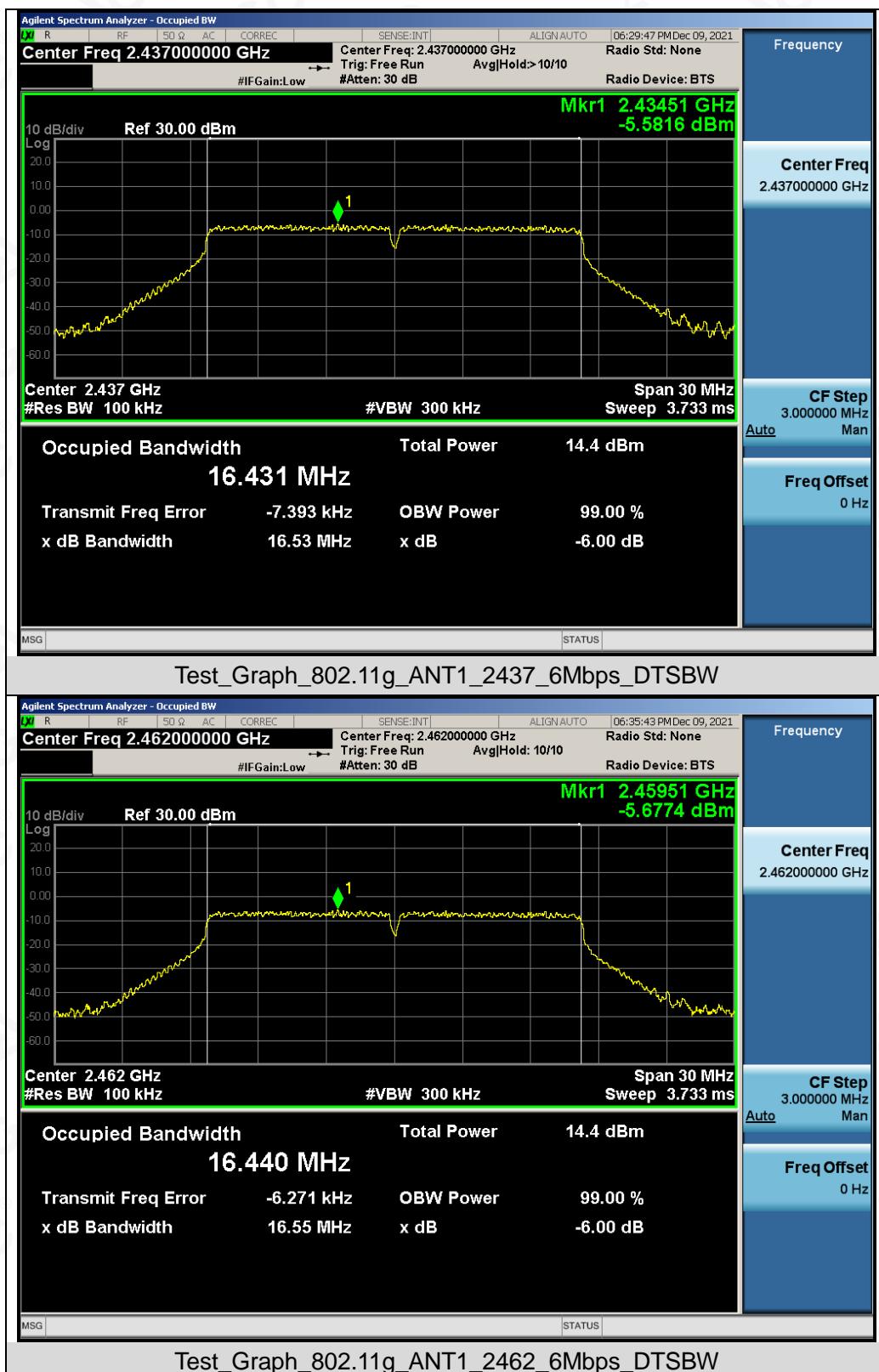
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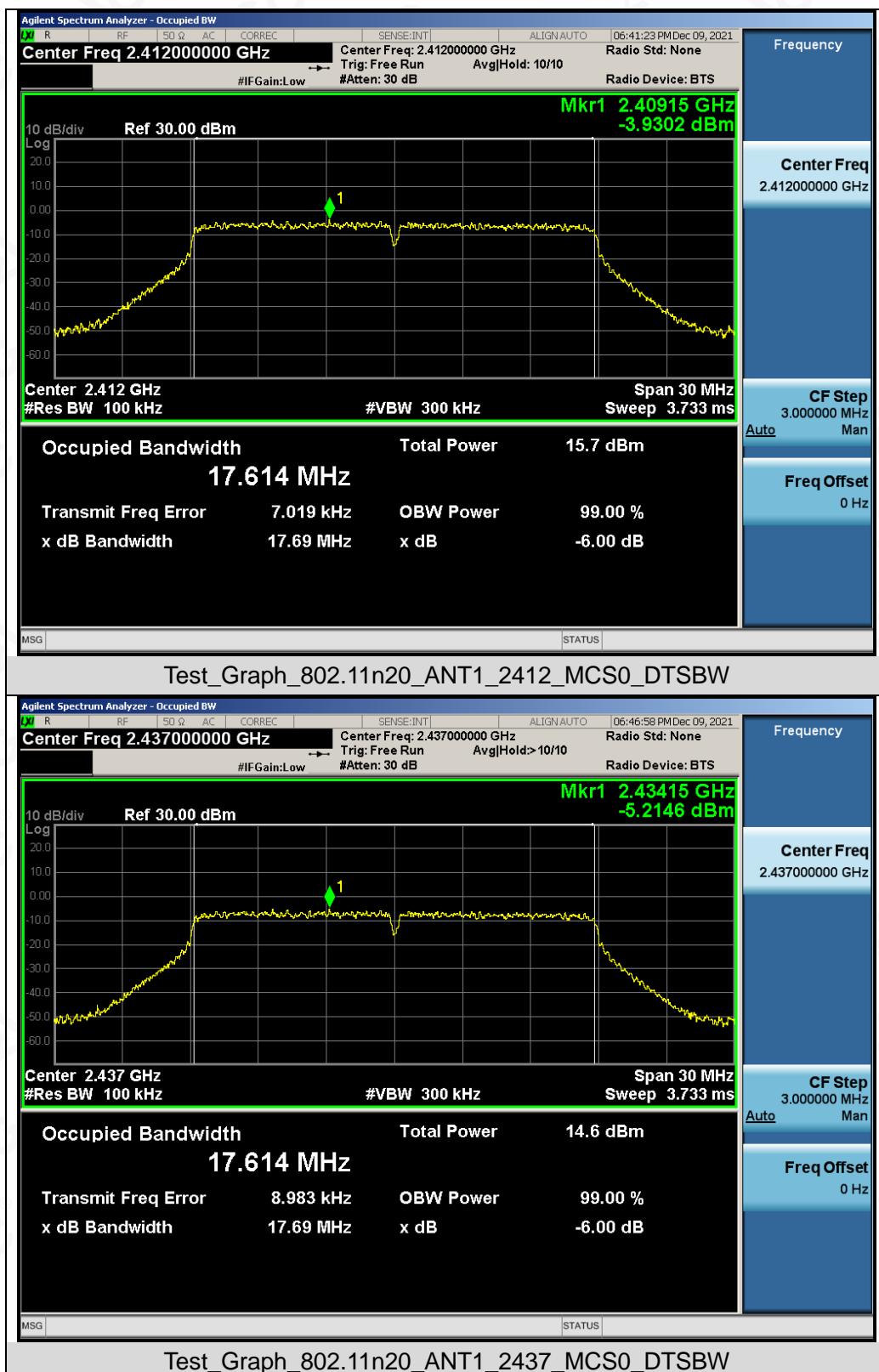
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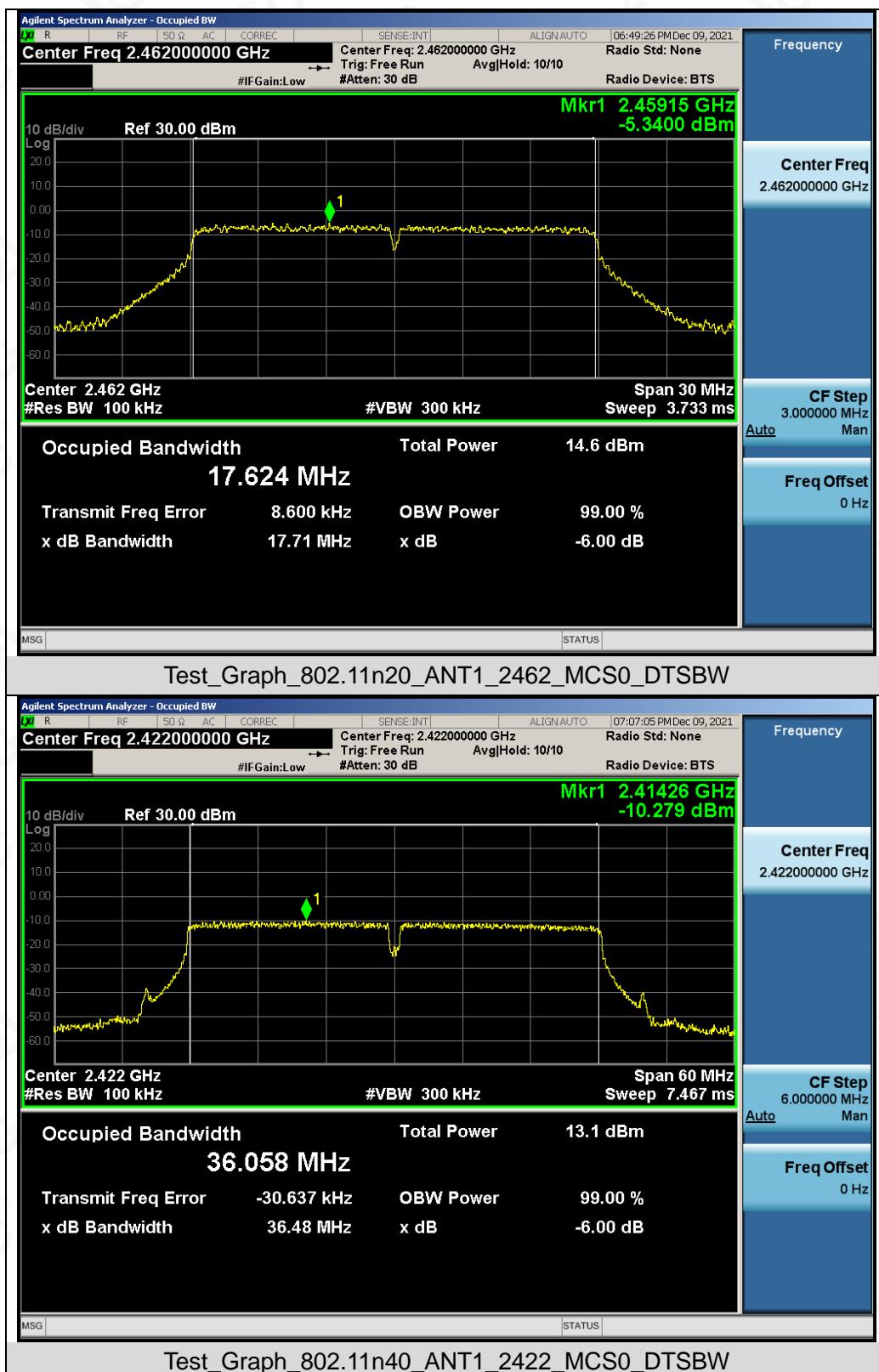
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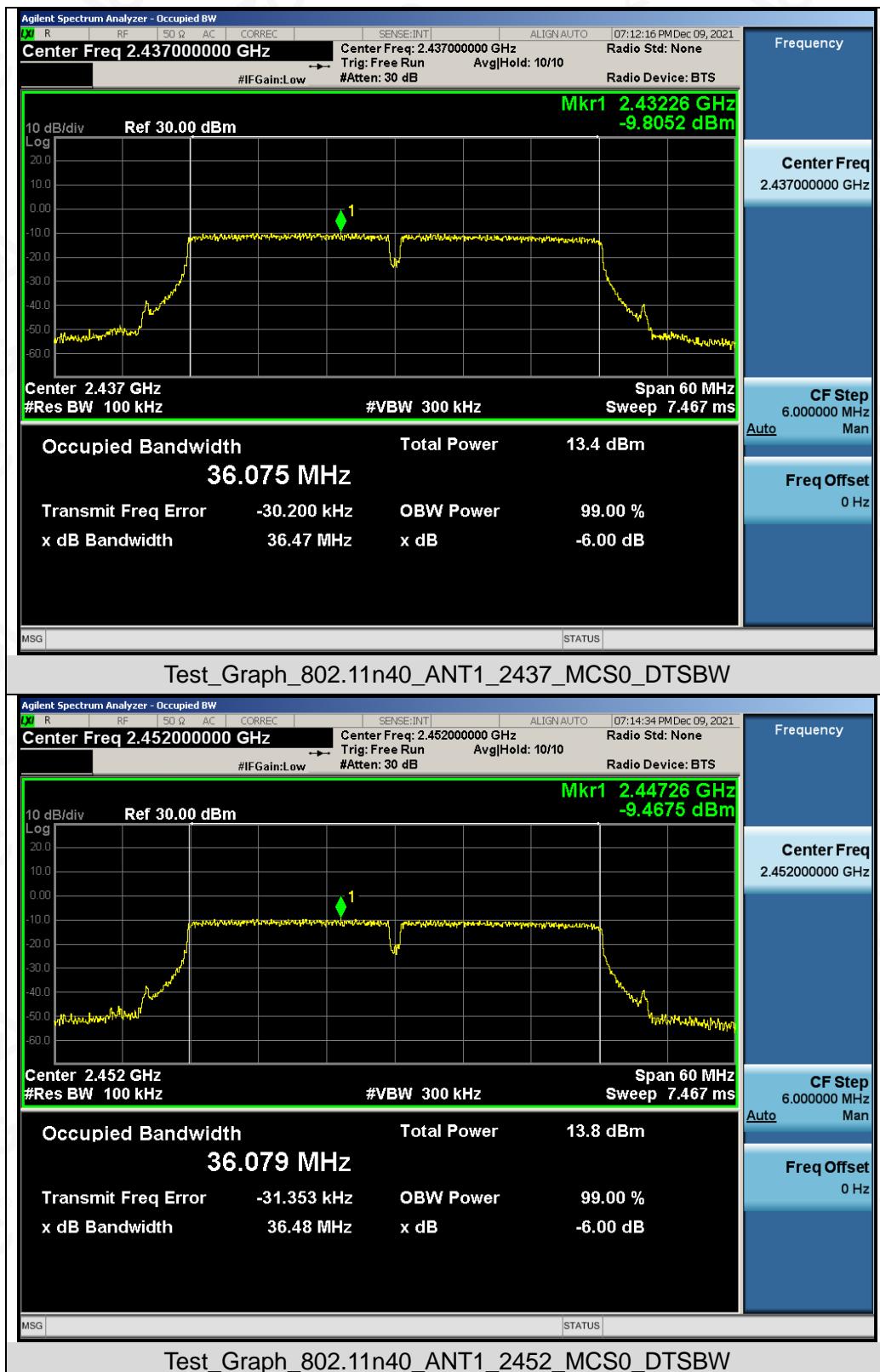
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## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT  |  |          |
|--|--|----------|
| Applicable Limits  | Measurement Result   |          |
|  | Test Data  | Criteria |
| In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. | At least -20dBc than the limit Specified on the BOTTOM Channel | PASS     |
| In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))  | At least -20dBc than the limit Specified on the TOP Channel    | PASS     |

Note: The limits reference level is according to the test plot of -6dB bandwidth.

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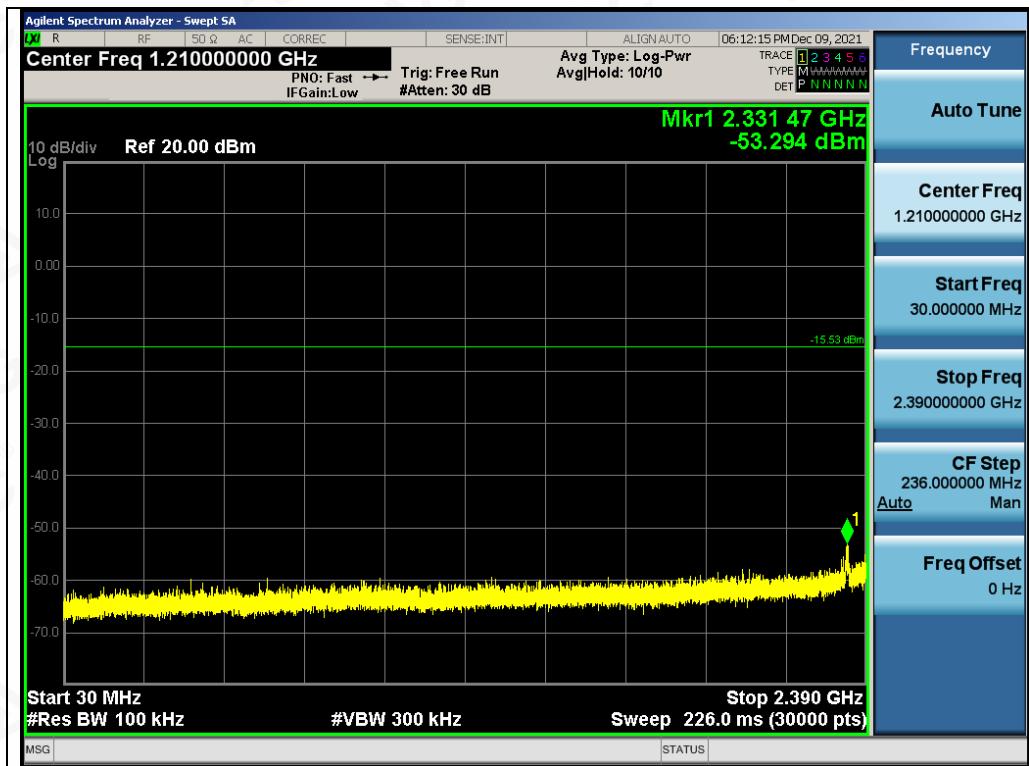
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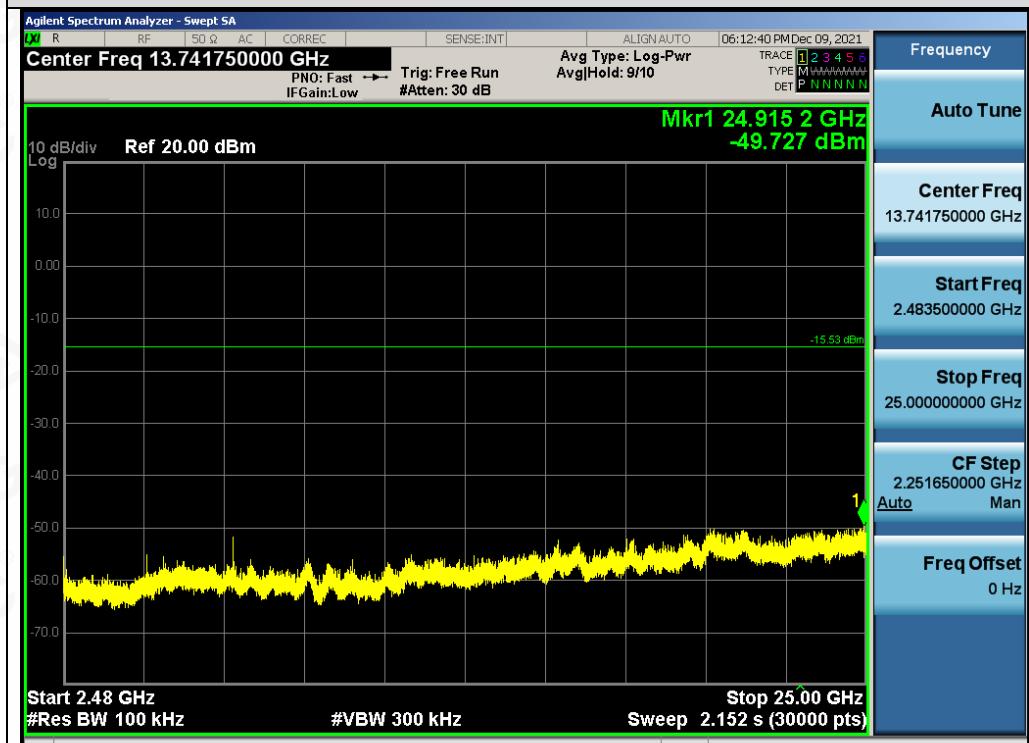
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## Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Lower Band Emissions



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Higher Band Emissions

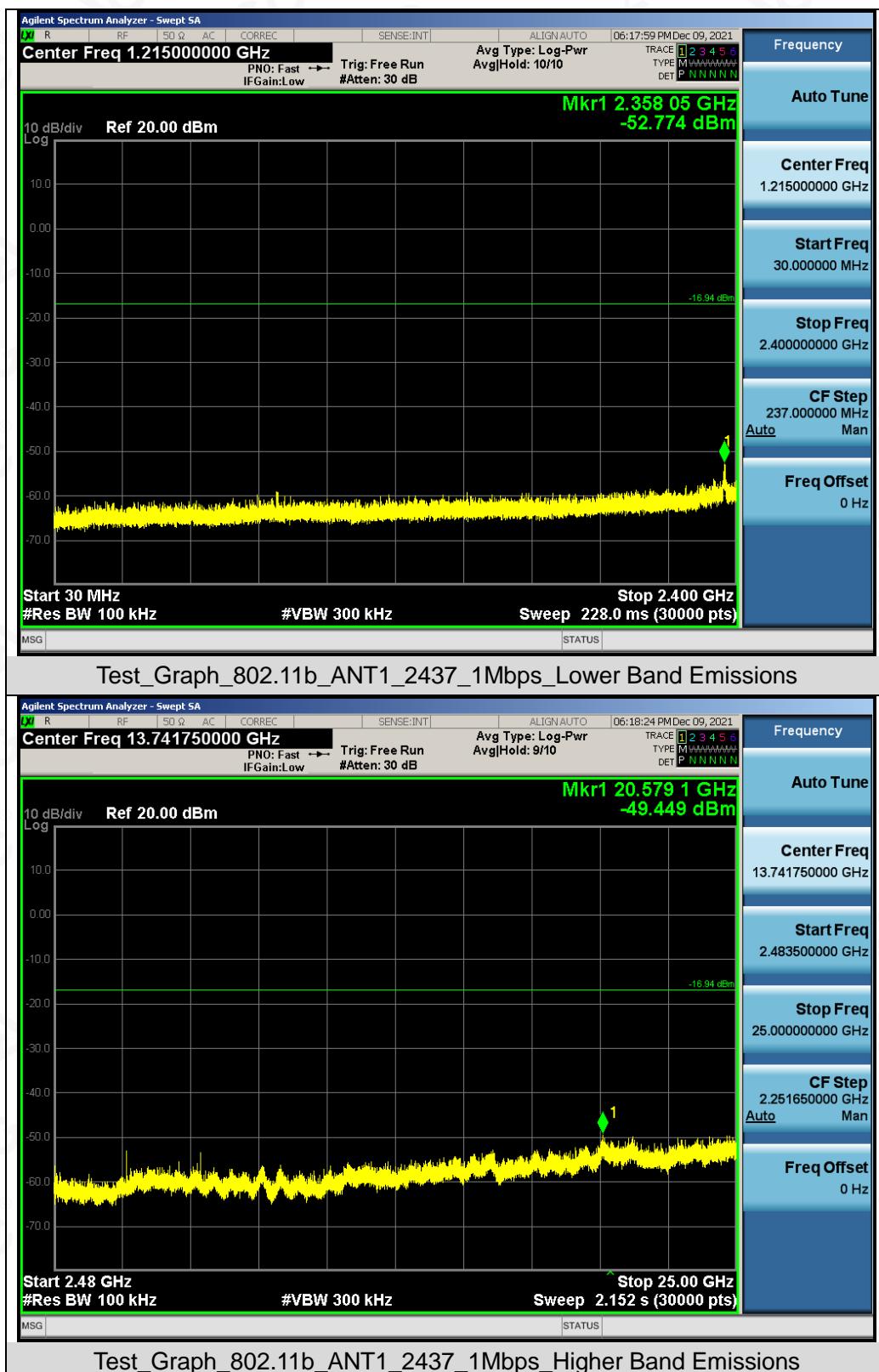
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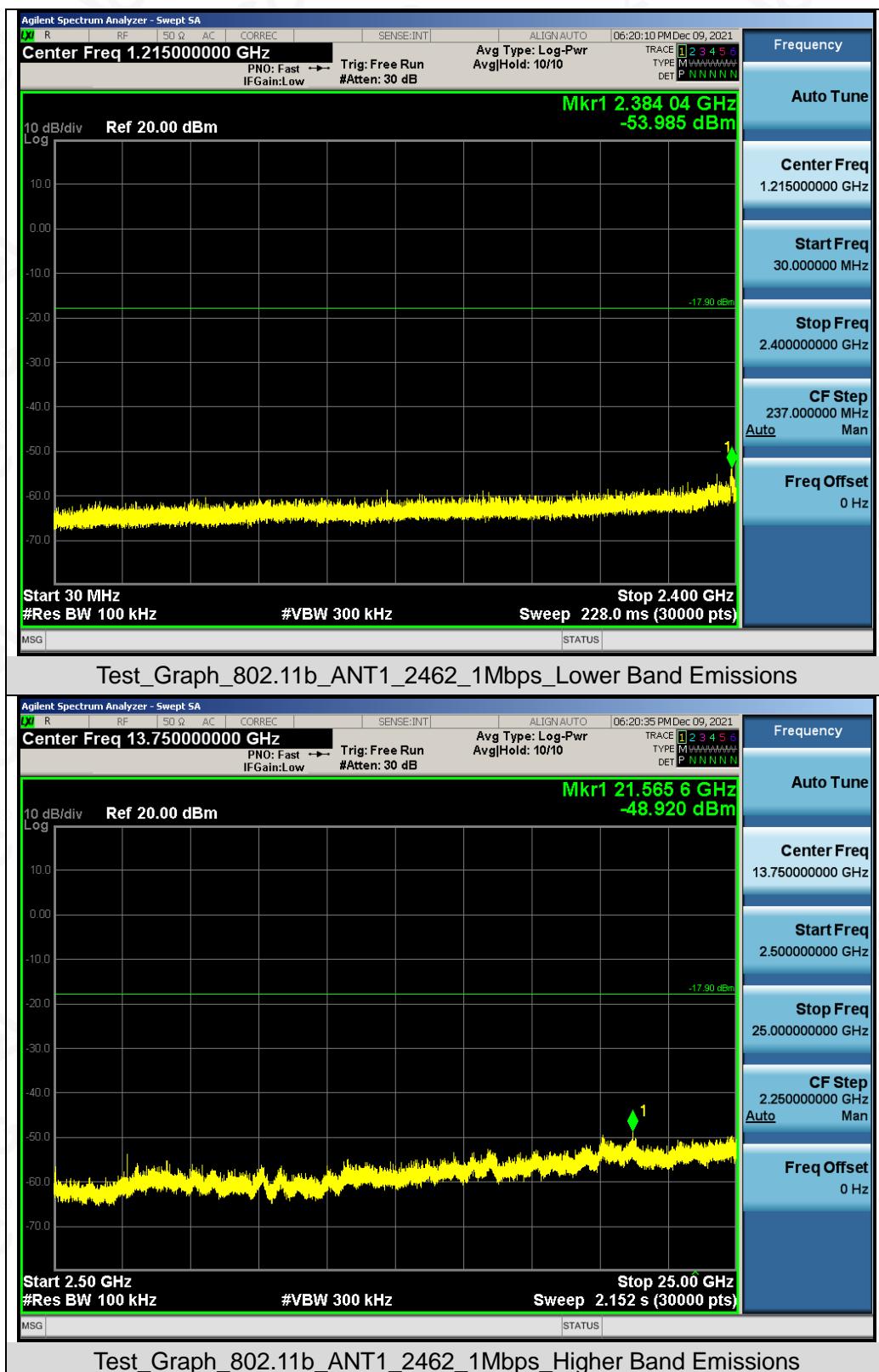
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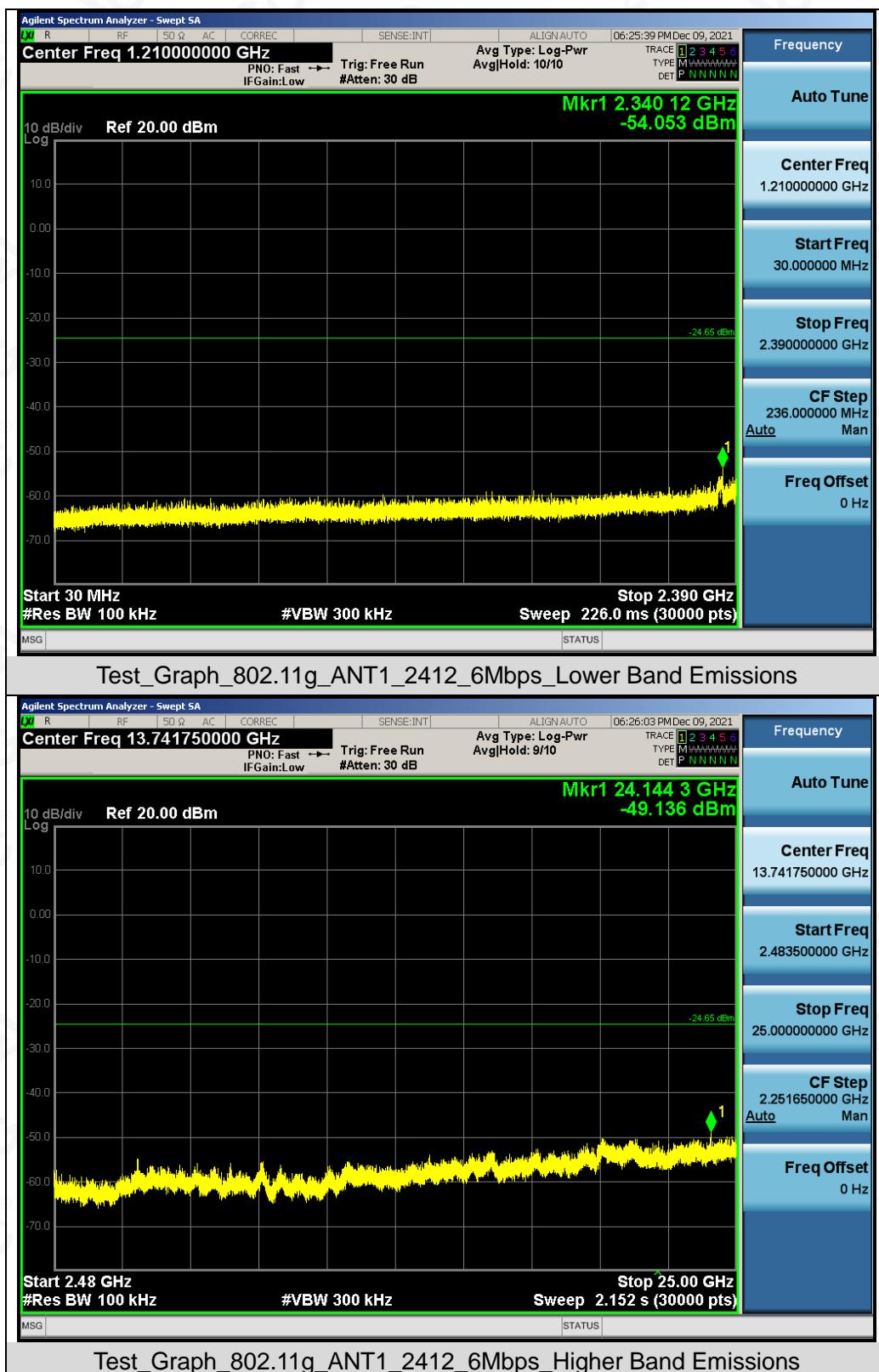
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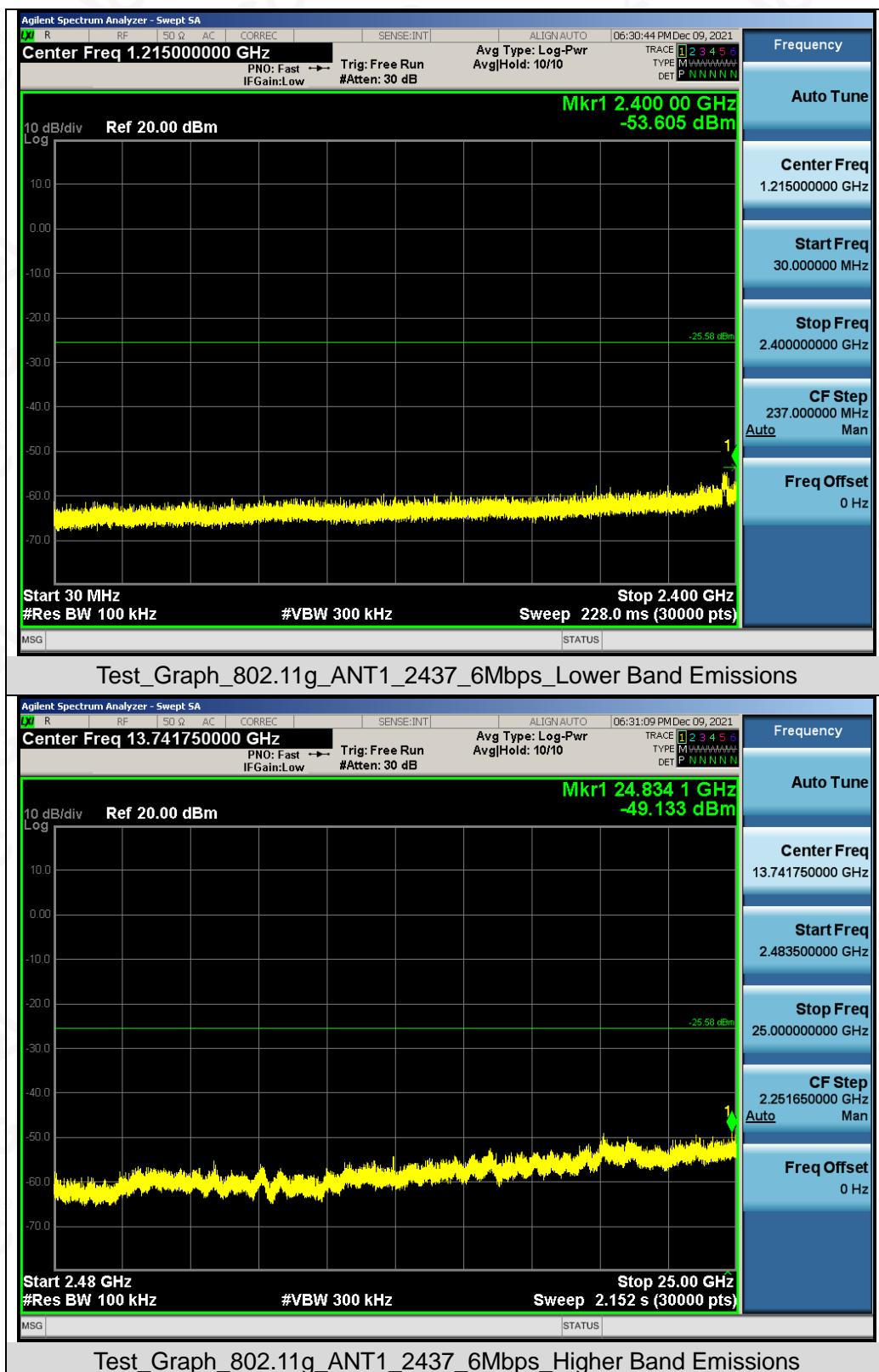
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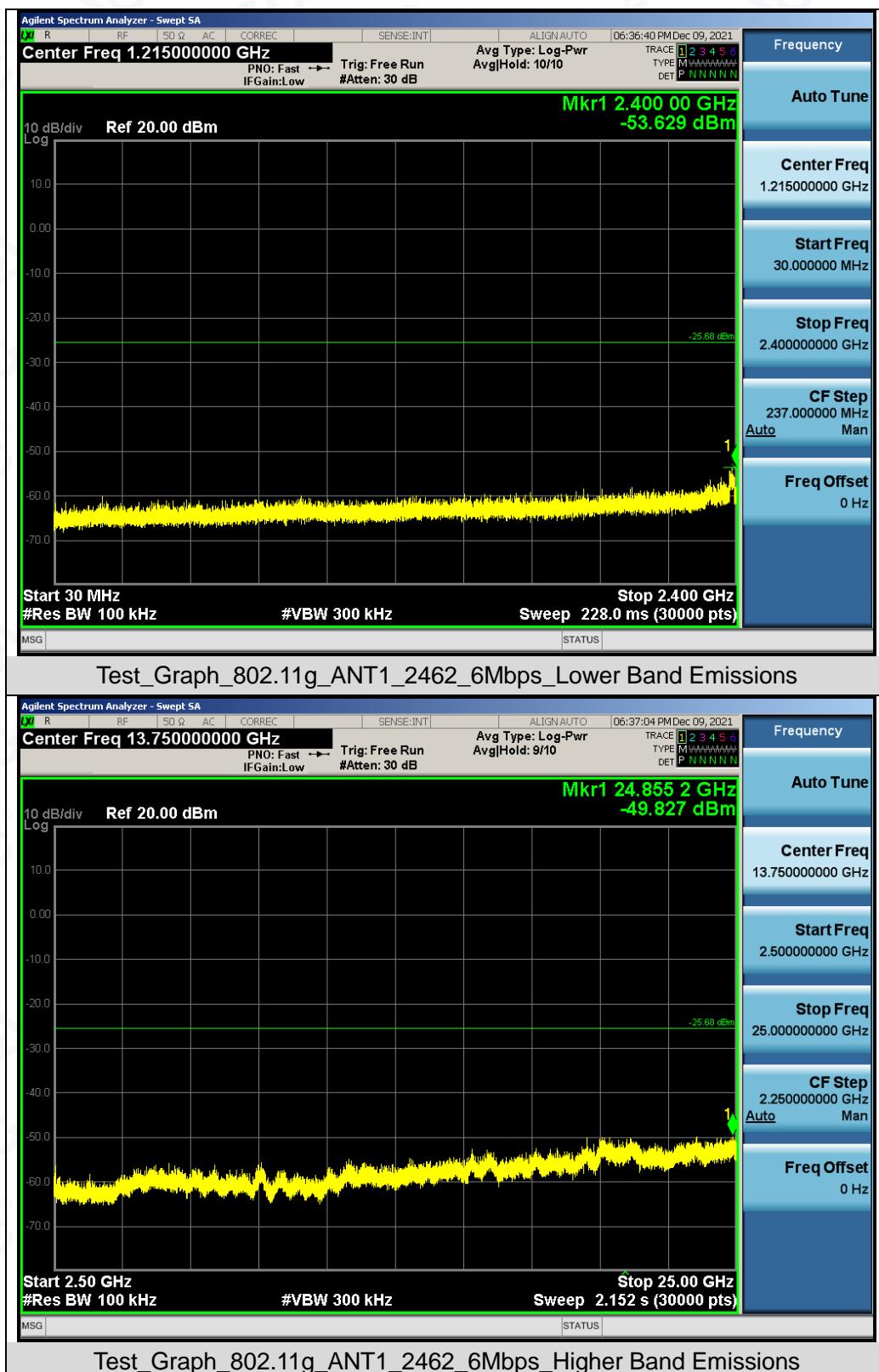
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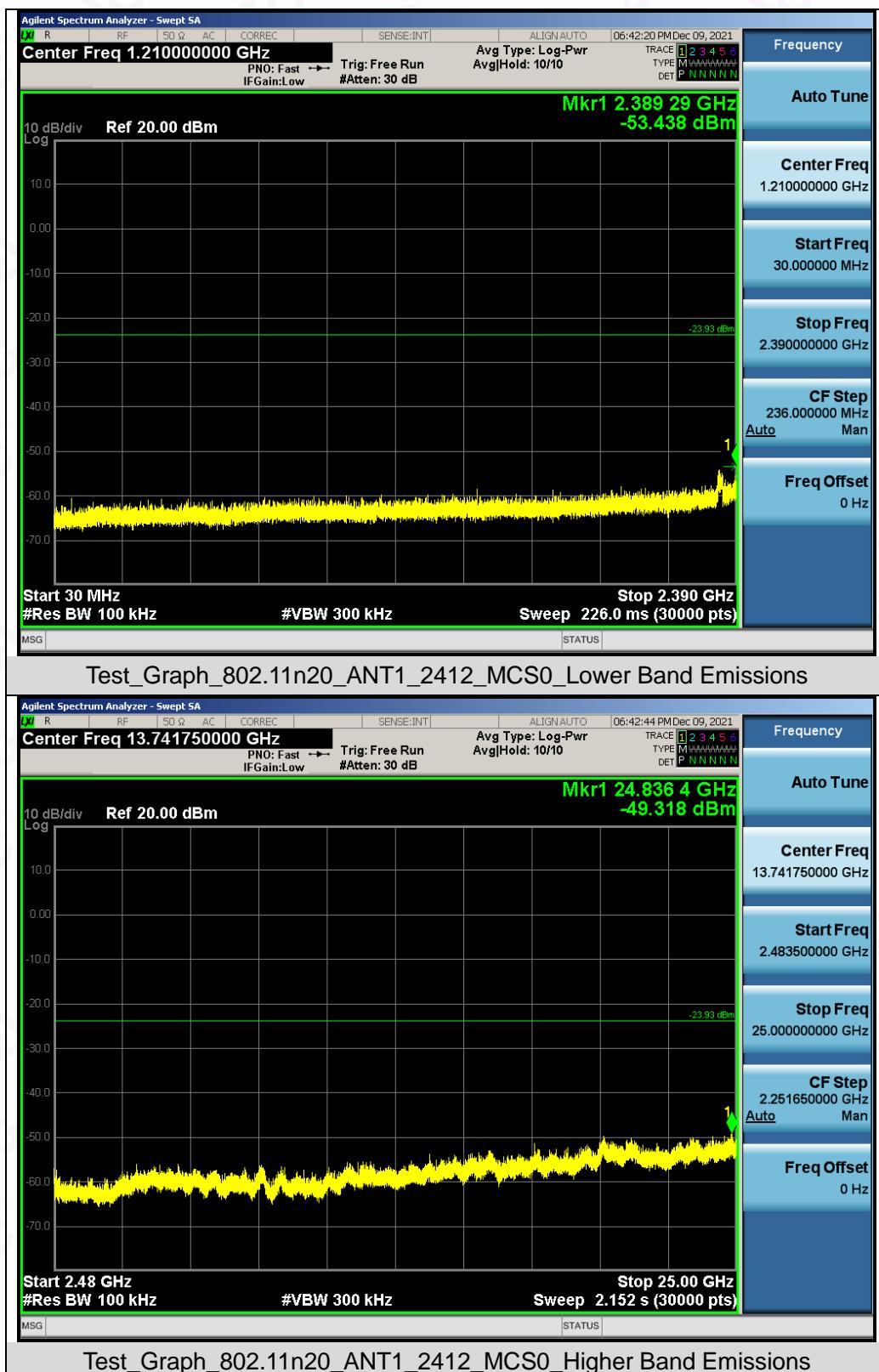
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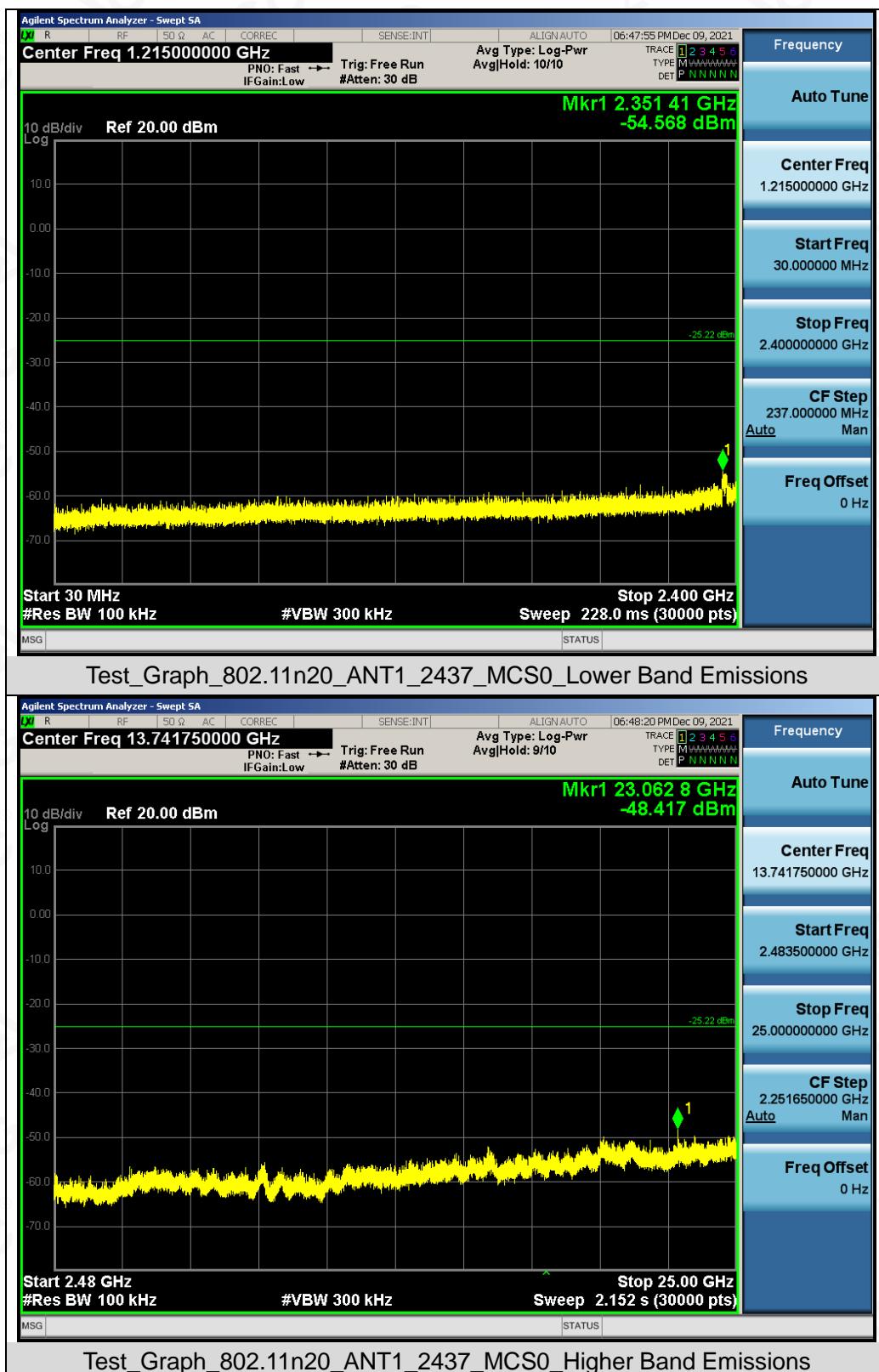
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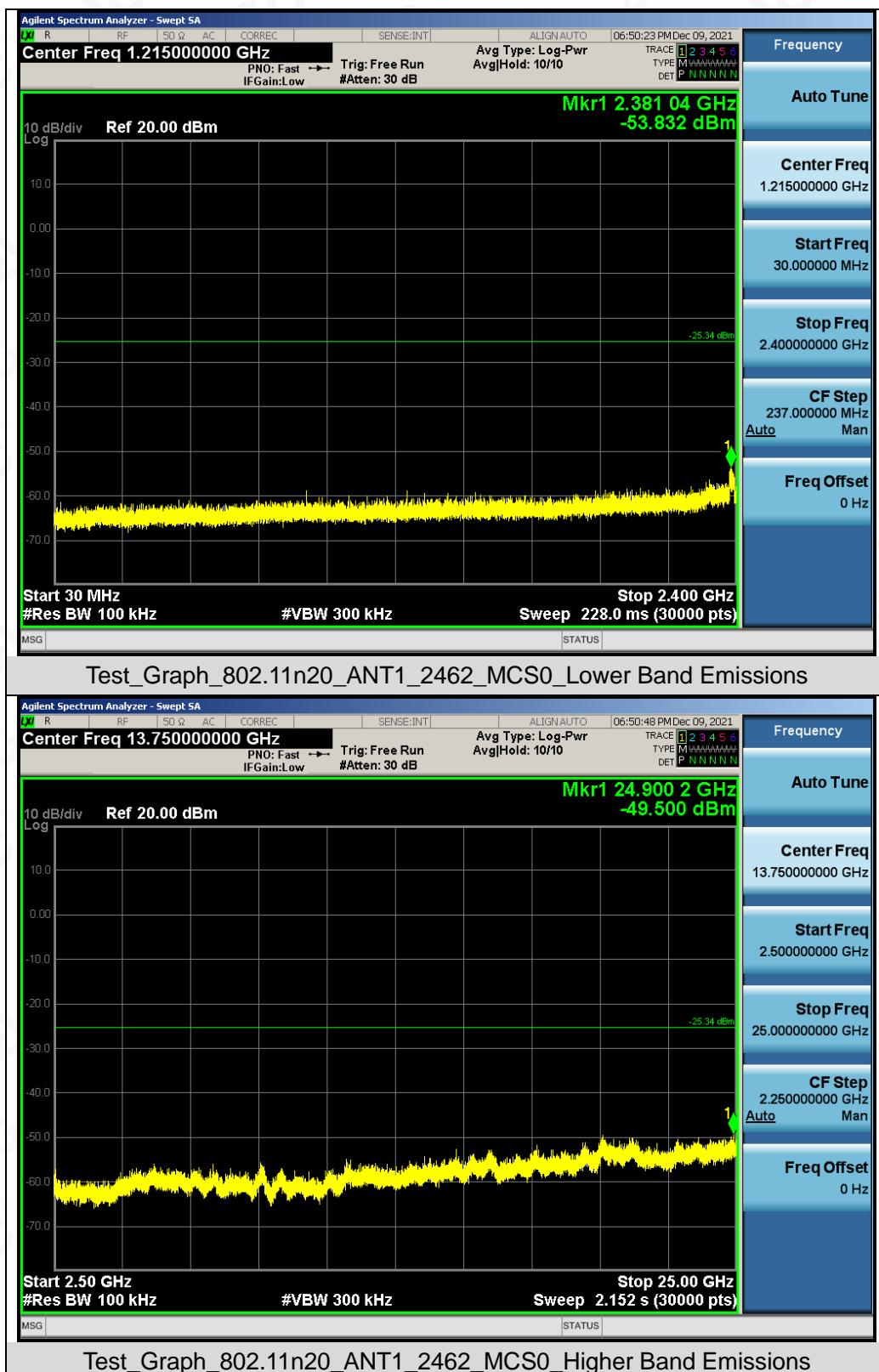
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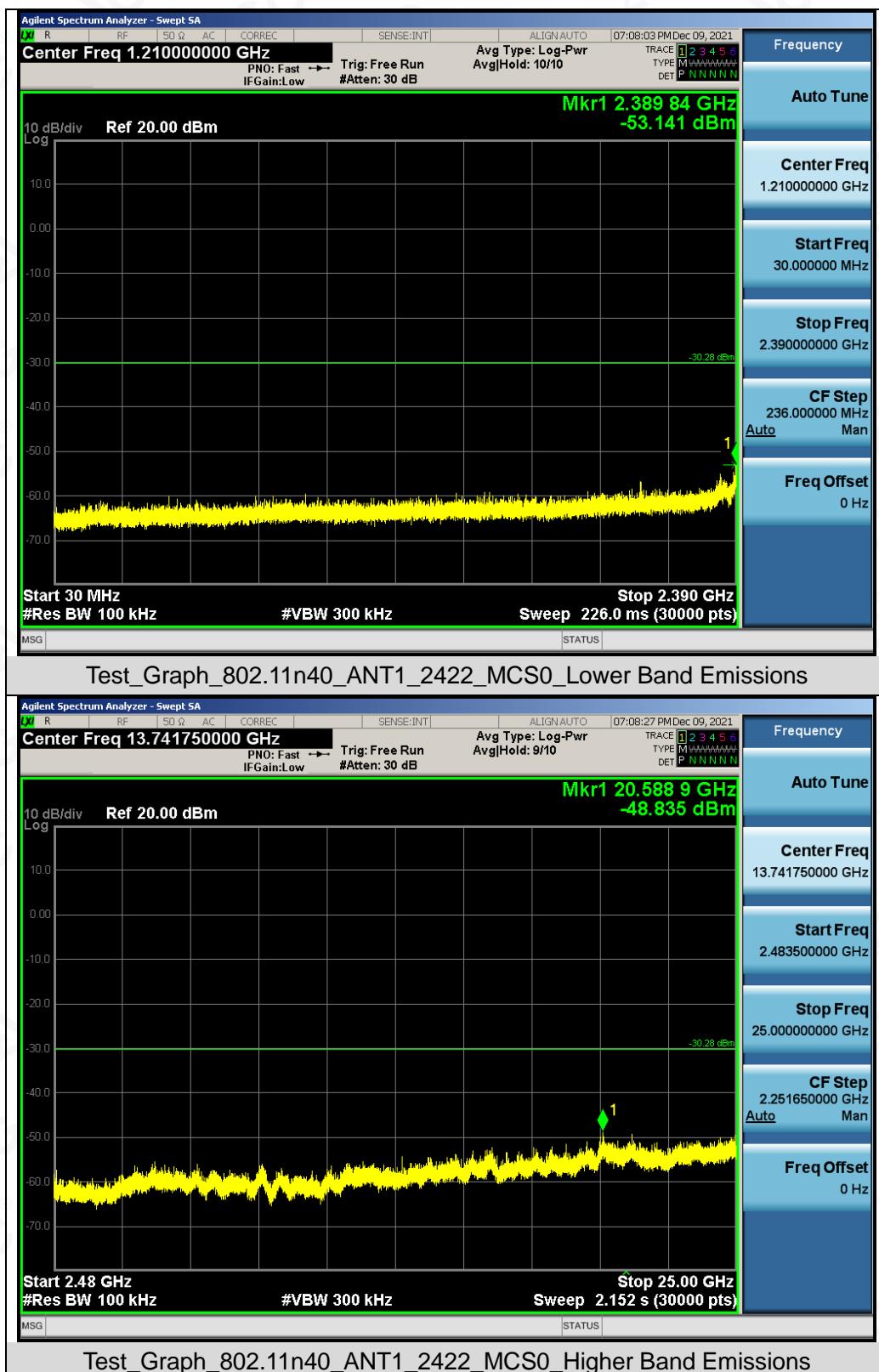
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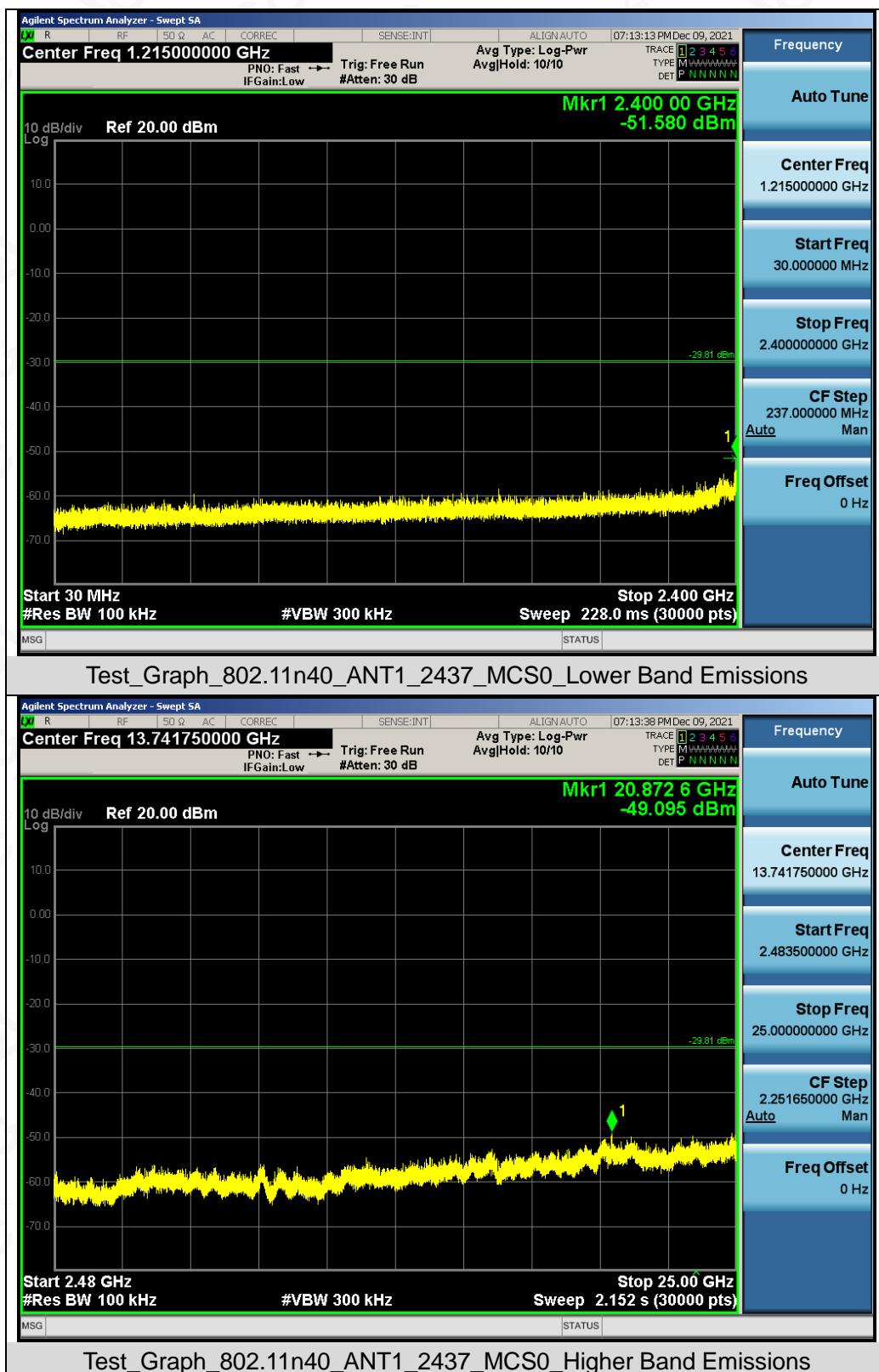
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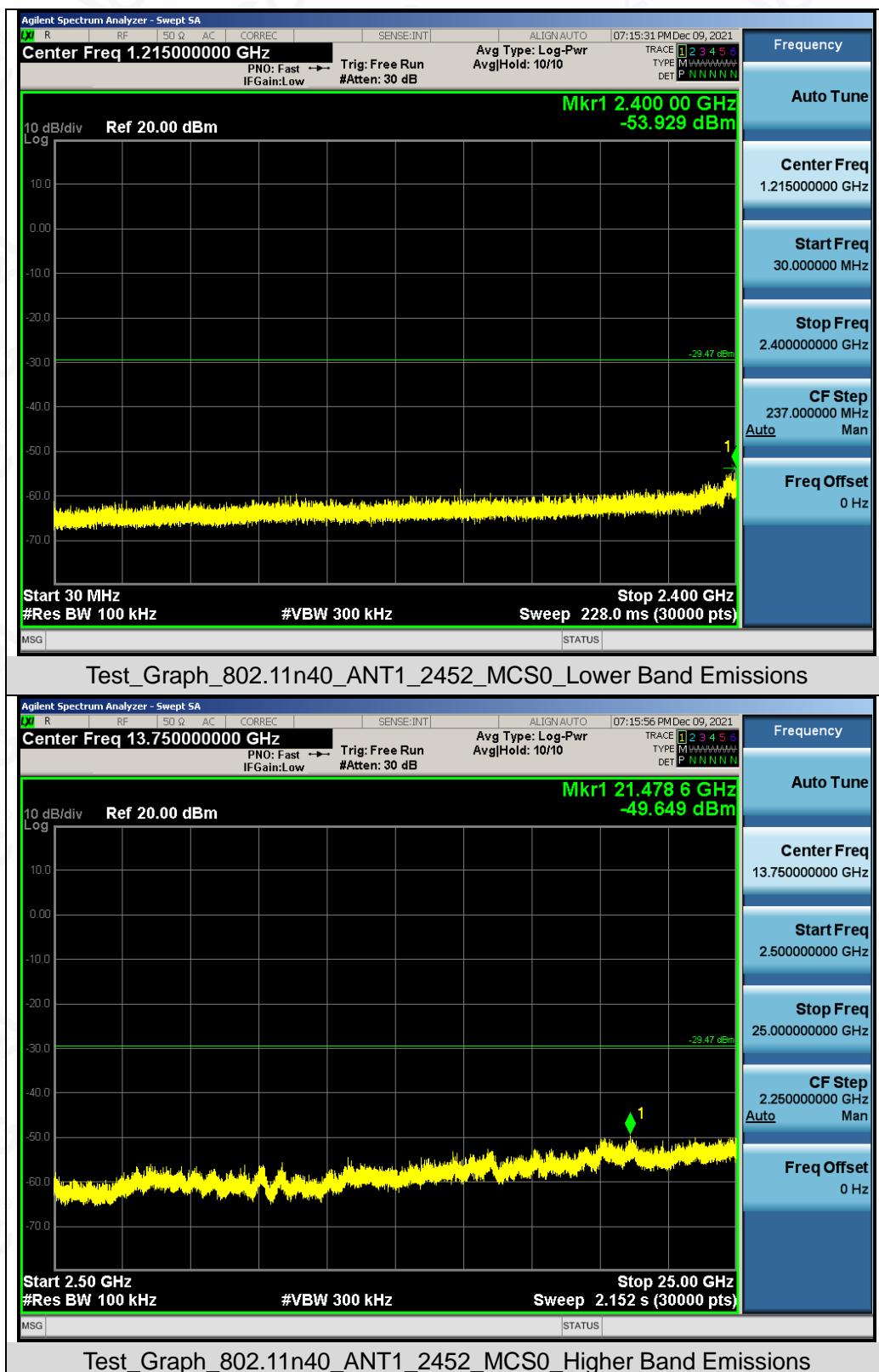
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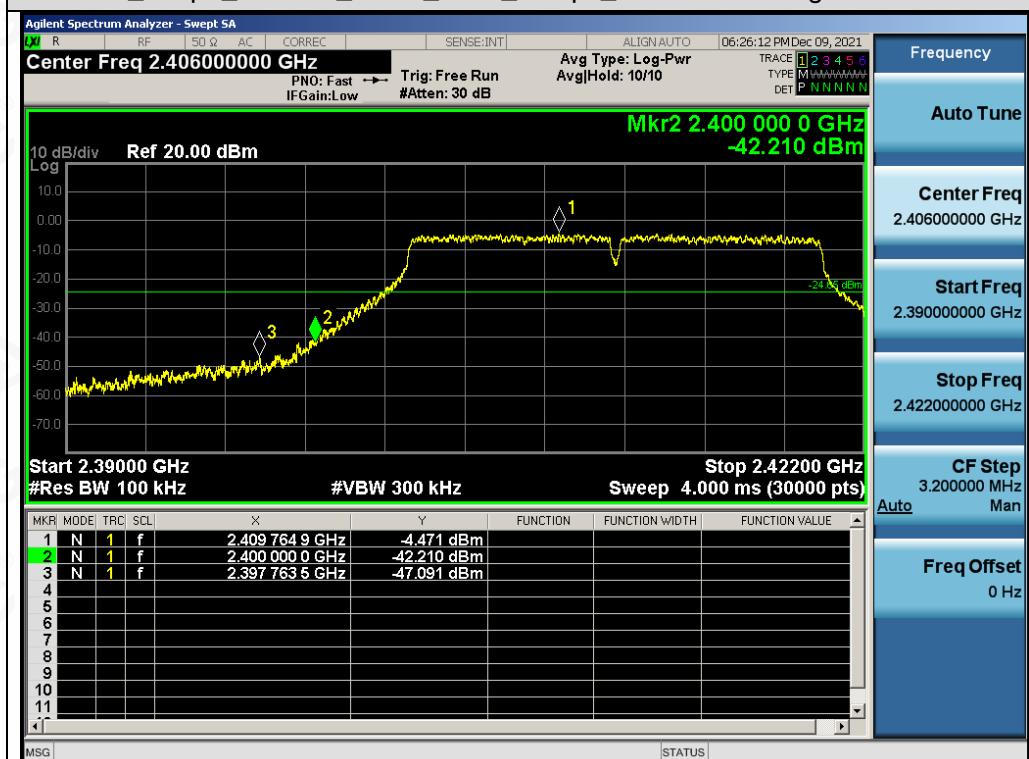
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### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Lower Band Edge Emissions



Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Lower Band Edge Emissions

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Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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