
FCC Test Report

Report No.: AGC12845230406FE07

FCC ID : 2A3NS-SCP300
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : RoboPusher Nimbo
BRAND NAME : Sveaverken
MODEL NAME : 9WZ-1.05A(SCP300)
APPLICANT : Sveaverken Svea Agri AB
DATE OF ISSUE : May 24, 2023
STANDARD(S) : FCC Part 15.407
TEST PROCEDURE(S) : KDB 789033 D02 v02r01
REPORT VERSION : V1.0

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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0 | / | May 24, 2023 | Valid | Initial Release |

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1. VERIFICATION OF CONFORMITY

| | |
|-------------------------------------|---|
| Applicant | Sveaverken Svea Agri AB |
| Address | Hogmossevagen 11, SE-641 39 Katrineholm, Sweden |
| Manufacturer | Sveaverken Svea Agri AB |
| Address | Hogmossevagen 11, SE-641 39 Katrineholm, Sweden |
| Factory | Sveaverken Svea Agri AB |
| Address | Hogmossevagen 11, SE-641 39 Katrineholm, Sweden |
| Product Designation | RoboPusher Nimbo |
| Brand Name | Sveaverken |
| Test Model | 9WZ-1.05A(SCP300) |
| Test Model | Apr. 27. 2023 |
| Date of receipt of test item | Apr. 27. 2023 to May 24, 2023 |
| Deviation | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Report Template | 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 requirement of FCC Part 15 Rules requirement.

Prepared By



Alan Duan
(Project Engineer)

May 24, 2023

Reviewed By



Calvin Liu
(Reviewer)

May 24, 2023

Approved By



Max Zhang
(Authorized Officer)

May 24, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "RoboPusher Nimbo". It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

| | | |
|------------------------------|--|--|
| Equipment Type | <input type="checkbox"/> Outdoor access points <input type="checkbox"/> Fixed P2P access points | <input type="checkbox"/> Indoor access points <input checked="" type="checkbox"/> Client devices |
| Operation Frequency | <input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz <input type="checkbox"/> U-NII 2C:5470MHz~5725MHz | <input type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz |
| DFS Design Type | <input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection | <input checked="" type="checkbox"/> Slave without radar detection |
| TPC Function | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Hardware Version | V1.0 | |
| Software Version | V1.0 | |
| Test Frequency Range: | For 802.11a/n-HT20-VHT20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40-HE 40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80-HE80: 5210MHz, 5775MHz | |
| Output Power | IEEE 802.11a(HT20):12.80dBm; IEEE 802.11n(HT20):12.13dBm; IEEE802.11n(HT40):11.37dBm; IEEE 802.11ac(VHT20):10.91dBm; IEEE802.11ac(VHT40):9.19dBm; IEEE802.11ac(VHT80):10.86dBm | |
| Modulation | 802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM | |
| Data Rate | 802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n: up to 300Mbps; 802.11ac: up to 866.6Mbps; | |
| Number of channels | 7 channels of U-NII-1 Band 8 channels of U-NII-3 Band | |
| Antenna Designation | Rod antenna (Comply with requirements of the FCC part 15.203) | |
| Antenna Gain | 3.44dBi | |
| Power Supply | DC 48V | |

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2.2. TABLE OF CARRIER FREQUENCIES

For 5180~5240MHz:

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

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36 | 5180 MHz | 44 | 5220 MHz |
| 40 | 5200 MHz | 48 | 5240 MHz |

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

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38 | 5190 MHz | 46 | 5230 MHz |

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

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 42 | 5210 MHz | -- | -- |

For 5745~5825MHz:

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

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

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

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

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

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

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2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2A3NS-SCP300** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. 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 | $U_c = \pm 2 \text{ %}$ |
| Uncertainty of Occupied Channel Bandwidth | $U_c = \pm 2 \text{ %}$ |

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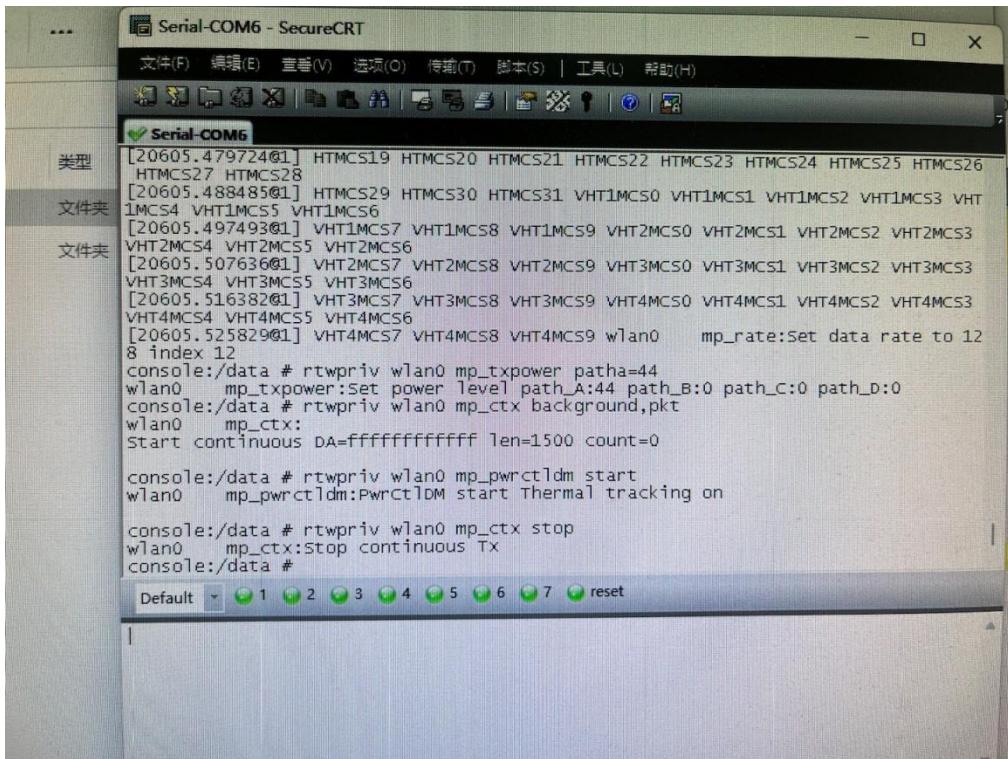
4. DESCRIPTION OF TEST MODES

| Mode | Available channel | Tested channel | Modulation | Date rate (Mbps) |
|----------------|----------------------------------|-----------------------|------------|------------------|
| 802.11a/n/ac20 | 36,40,44,48, 149,153,157,161,165 | 36,40,48, 149,157,165 | OFDM | 6Mbps/MCS0 |
| 802.11n/ac40 | 38,46,151,159 | 38,46, 151,159 | OFDM | MCS0 |
| 802.11ac80 | 42, 155 | 42, 155 | OFDM | MCS0 |

Note:

1. The EUT has been set to operate continuously on tested channel 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.

Software Setting



```

Serial-COM6 - SecureCRT
文件(F)  编辑(E)  查看(V)  选项(O)  传输(T)  脚本(S)  工具(L)  帮助(H)

Serial-COM6
类型 [20605.479724@1] HTMCS19 HTMCS20 HTMCS21 HTMCS22 HTMCS23 HTMCS24 HTMCS25 HTMCS26
HTMCS27 HTMCS28
[20605.488485@1] HTMCS29 HTMCS30 HTMCS31 VHT1MCS0 VHT1MCS1 VHT1MCS2 VHT1MCS3 VHT
1MCS4 VHT1MCS5 VHT1MCS6
[20605.497493@1] VHT1MCS7 VHT1MCS8 VHT1MCS9 VHT2MCS0 VHT2MCS1 VHT2MCS2 VHT2MCS3
VHT2MCS4 VHT2MCS5 VHT2MCS6
[20605.507636@1] VHT2MCS7 VHT2MCS8 VHT2MCS9 VHT3MCS0 VHT3MCS1 VHT3MCS2 VHT3MCS3
VHT3MCS4 VHT3MCS5 VHT3MCS6
[20605.516382@1] VHT3MCS7 VHT3MCS8 VHT3MCS9 VHT4MCS0 VHT4MCS1 VHT4MCS2 VHT4MCS3
VHT4MCS4 VHT4MCS5 VHT4MCS6
[20605.525829@1] VHT4MCS7 VHT4MCS8 VHT4MCS9 wlan0 mp_rate:set data rate to 12
8 index 12
console:/data # rtwpriv wlan0 mp_txpower patha=44
wlan0 mp_txpower:set power level path_A:44 path_B:0 path_C:0 path_D:0
console:/data # rtwpriv wlan0 mp_ctx' background,pkt
wlan0 mp_ctx:
Start continuous DA=ffffffffffff len=1500 count=0
console:/data # rtwpriv wlan0 mp_pwrctl dm start
wlan0 mp_pwrctl dm:PwrCtlDM start Thermal tracking on
console:/data # rtwpriv wlan0 mp_ctx stop
wlan0 mp_ctx:Stop continuous Tx
console:/data #
  
```

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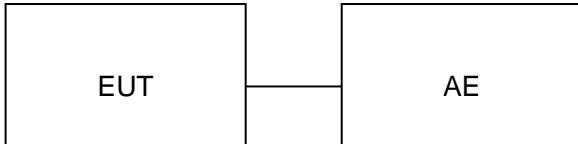
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|-------------------------|-------------------|---------------------|--------|
| 1 | RoboPusher Nimbo | 9WZ-1.05A(SCP300) | 2A3NS-SCP300 | EUT |
| 2 | Sveaverken Easy Control | EC20 | N/A | AE |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|--|-----------|
| §15.407 | 6dB Bandwidth | Compliant |
| §15.407 | Emission Bandwidth | Compliant |
| §15.407 | Maximum conducted output power | Compliant |
| §15.407 | Conducted Spurious Emission | Compliant |
| §15.407 | Maximum Conducted Output Power Density | Compliant |
| §15.209 | Radiated Emission | Compliant |
| §15.407 | 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 | Aug. 04, 2022 | Aug. 03, 2023 |
| LISN | R&S | ESH2-Z5 | 100086 | Jun. 08, 2022 | Jun. 07, 2023 |
| 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 | Feb. 18, 2023 | Feb. 17, 2024 |
| EXA Signal Analyzer | Agilent | N9010A | MY53470504 | Aug. 04, 2022 | Aug. 03, 2023 |
| EXA Signal Analyzer | KEYSIGHT | N9020B | MY56101792 | Aug. 04, 2022 | Aug. 03, 2023 |
| Power sensor | Agilent | U2021XA | MY54110007 | Mar. 03, 2023 | Mar. 02, 2024 |
| 5GHz Fliter | EM Electronics | 5150-5880MHz | N/A | N/A | N/A |
| Attenuator | ZHINAN | E-002 | N/A | Aug. 04, 2022 | Aug. 03, 2024 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Oct. 31, 2021 | Oct. 30, 2023 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | Mar. 12, 2022 | Mar. 21, 2024 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | Apr. 23, 2023 | Apr. 22, 2024 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Aug. 04, 2022 | Aug. 03, 2024 |
| ANTENNA | SCHWARZBECK | VULB9168 | VULB9168-494 | Jan. 05, 2023 | Jan. 04, 2025 |
| Test software | FARA | EZ-EMC (Ver RA-03A) | Ver.2.5 | N/A | N/A |

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

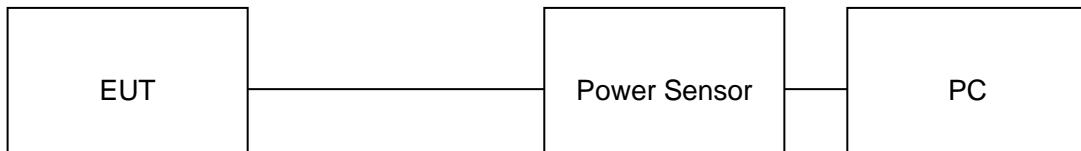
For average power test:

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 KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

7.2. TEST SET-UP

AVERAGE POWER SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power for band 5.15-5.25 GHz | | | | |
|--|--------------------|---------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a | 5180 | 12.03 | 23.98 | Pass |
| | 5200 | 12.80 | 23.98 | Pass |
| | 5240 | 12.25 | 23.98 | Pass |
| 802.11n20 | 5180 | 11.89 | 23.98 | Pass |
| | 5200 | 11.21 | 23.98 | Pass |
| | 5240 | 12.13 | 23.98 | Pass |
| 802.11n40 | 5190 | 11.06 | 23.98 | Pass |
| | 5230 | 11.37 | 23.98 | Pass |
| 802.11ac20 | 5180 | 10.91 | 23.98 | Pass |
| | 5200 | 10.19 | 23.98 | Pass |
| | 5240 | 10.64 | 23.98 | Pass |
| 802.11ac40 | 5190 | 7.58 | 23.98 | Pass |
| | 5230 | 8.43 | 23.98 | Pass |
| 802.11ac80 | 5210 | 9.62 | 23.98 | Pass |

| Test Data of Conducted Output Power for band 5.725-5.85 GHz | | | | |
|---|--------------------|---------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a | 5745 | 10.19 | 30 | Pass |
| | 5785 | 10.08 | 30 | Pass |
| | 5825 | 10.70 | 30 | Pass |
| 802.11n20 | 5745 | 10.31 | 30 | Pass |
| | 5785 | 10.01 | 30 | Pass |
| | 5825 | 10.63 | 30 | Pass |
| 802.11n40 | 5755 | 10.13 | 30 | Pass |
| | 5795 | 9.79 | 30 | Pass |
| 802.11ac20 | 5745 | 10.33 | 30 | Pass |
| | 5785 | 8.97 | 30 | Pass |
| | 5825 | 9.64 | 30 | Pass |
| 802.11ac40 | 5755 | 9.19 | 30 | Pass |
| | 5795 | 8.77 | 30 | Pass |
| 802.11ac80 | 5775 | 10.86 | 30 | Pass |

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

-6dB bandwidth (DTS bandwidth):

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

99% occupied bandwidth:

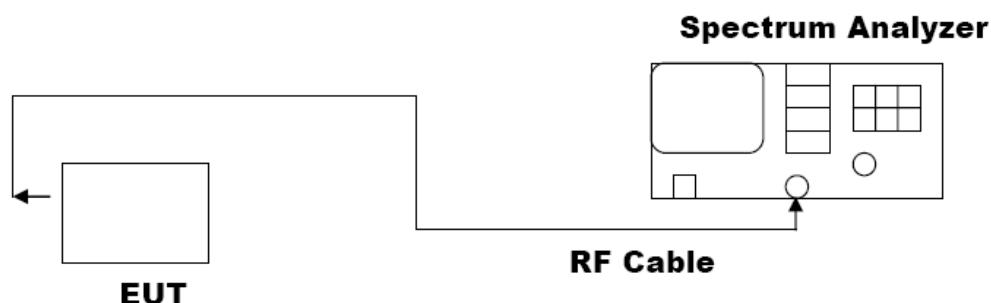
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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.

-26dB Bandwidth:

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 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 -26dB Bandwidth for band 5.15-5.25 GHz | | | | | |
|--|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a | 5180 | 16.498 | 20.79 | N/A | Pass |
| | 5200 | 16.556 | 24.25 | N/A | Pass |
| | 5240 | 16.532 | 24.09 | N/A | Pass |
| 802.11n20 | 5180 | 17.583 | 20.43 | N/A | Pass |
| | 5200 | 17.582 | 20.46 | N/A | Pass |
| | 5240 | 17.649 | 23.04 | N/A | Pass |
| 802.11n40 | 5190 | 36.111 | 53.68 | N/A | Pass |
| | 5230 | 36.098 | 53.31 | N/A | Pass |
| 802.11ac20 | 5180 | 17.577 | 19.94 | N/A | Pass |
| | 5200 | 17.572 | 23.26 | N/A | Pass |
| | 5240 | 17.659 | 23.89 | N/A | Pass |
| 802.11ac40 | 5190 | 35.953 | 39.63 | N/A | Pass |
| | 5230 | 35.907 | 39.82 | N/A | Pass |
| 802.11ac80 | 5210 | 75.863 | 80.95 | N/A | Pass |

| Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz | | | | | |
|---|--------------------|------------------------------|---------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | DTS Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a | 5745 | 16.482 | 15.02 | 0.5 | Pass |
| | 5785 | 16.501 | 15.07 | 0.5 | Pass |
| | 5825 | 16.443 | 15.06 | 0.5 | Pass |
| 802.11n20 | 5745 | 17.544 | 15.07 | 0.5 | Pass |
| | 5785 | 17.538 | 15.06 | 0.5 | Pass |
| | 5825 | 17.547 | 15.06 | 0.5 | Pass |
| 802.11n40 | 5755 | 35.938 | 35.09 | 0.5 | Pass |
| | 5795 | 35.975 | 35.07 | 0.5 | Pass |
| 802.11ac20 | 5745 | 17.539 | 13.85 | 0.5 | Pass |
| | 5785 | 17.549 | 15.09 | 0.5 | Pass |
| | 5825 | 17.537 | 15.09 | 0.5 | Pass |
| 802.11ac40 | 5755 | 35.917 | 35.09 | 0.5 | Pass |
| | 5795 | 36.017 | 35.11 | 0.5 | Pass |
| 802.11ac80 | 5775 | 75.797 | 75.78 | 0.5 | Pass |

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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



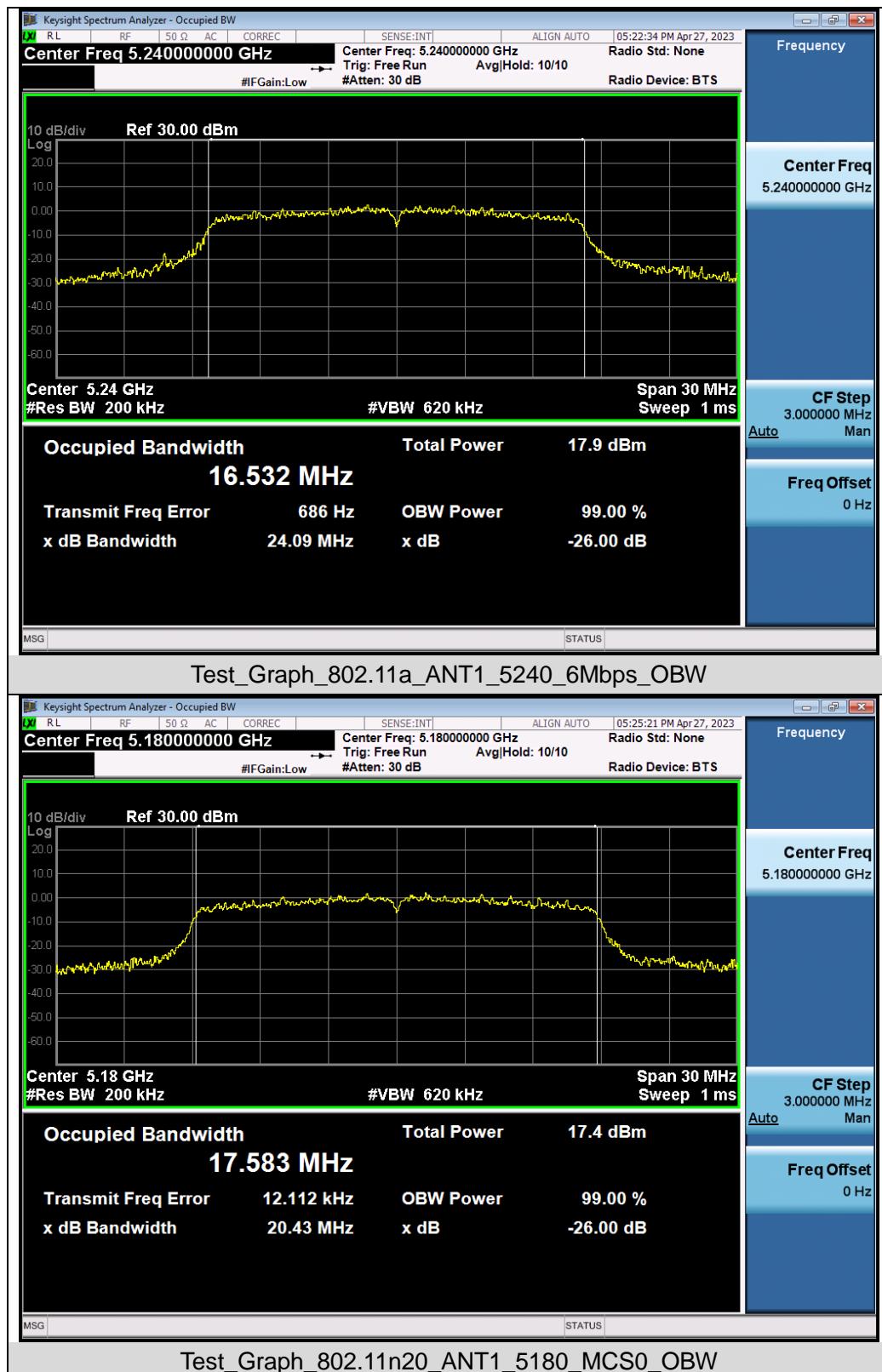
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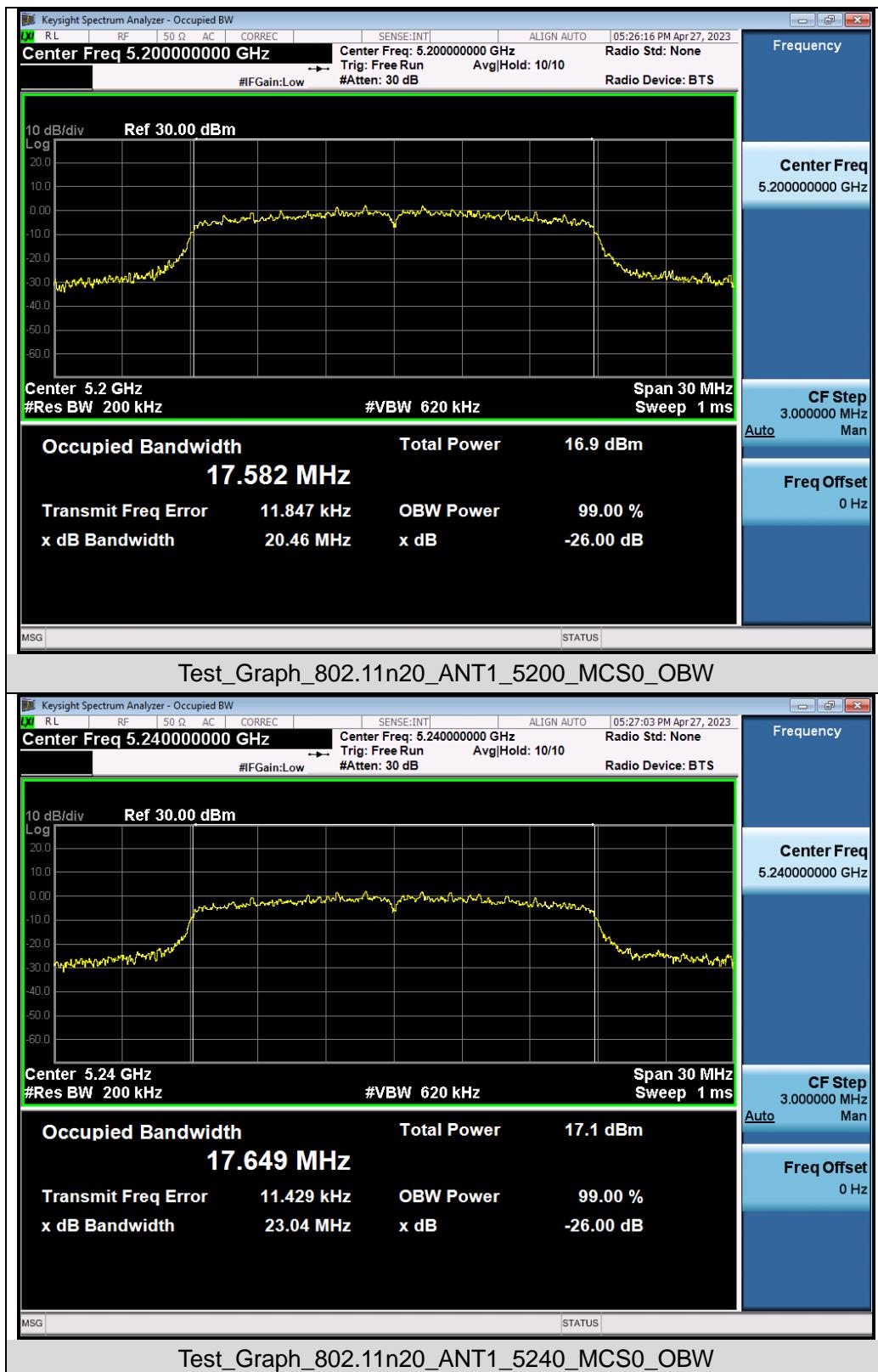


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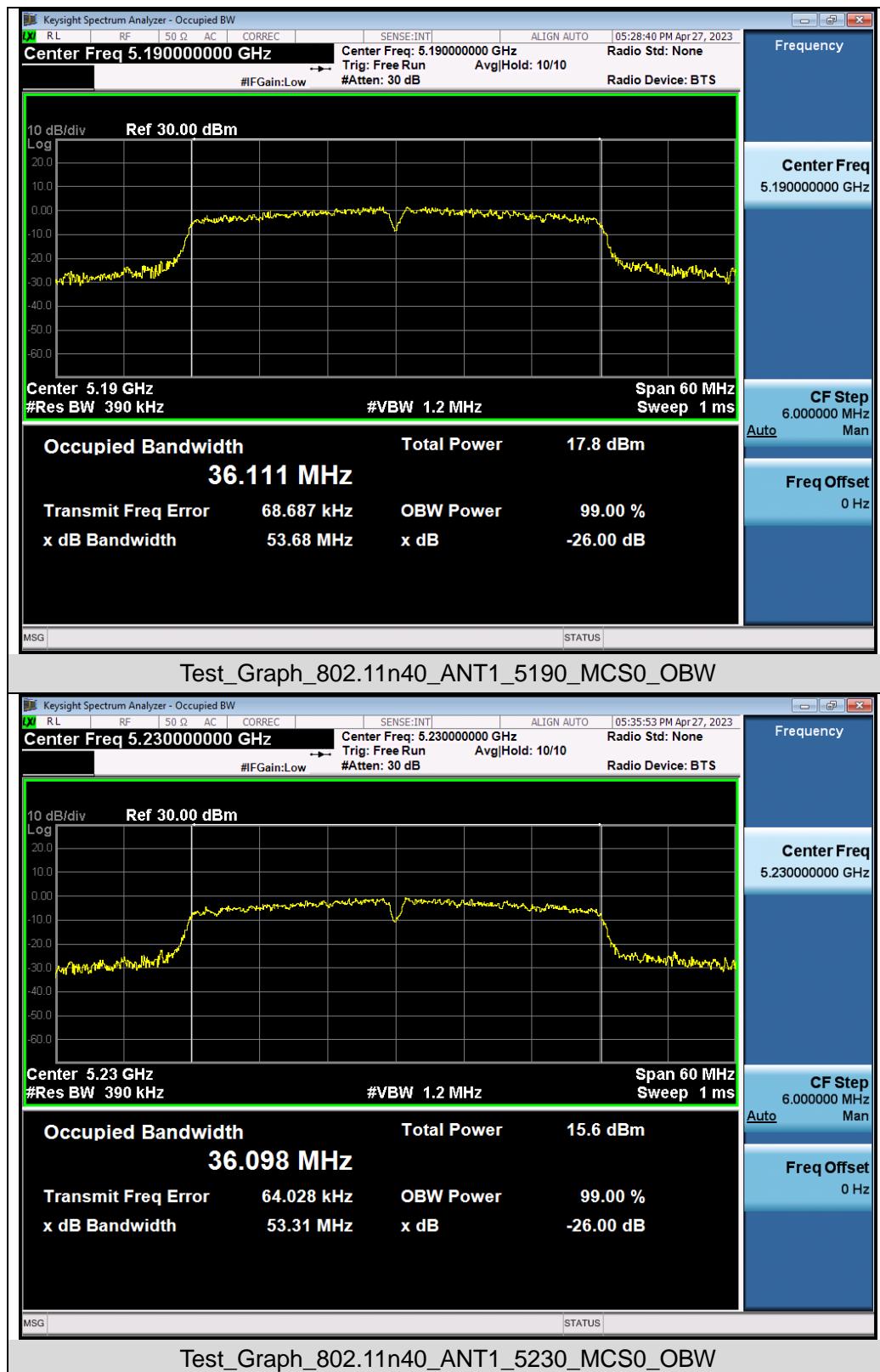


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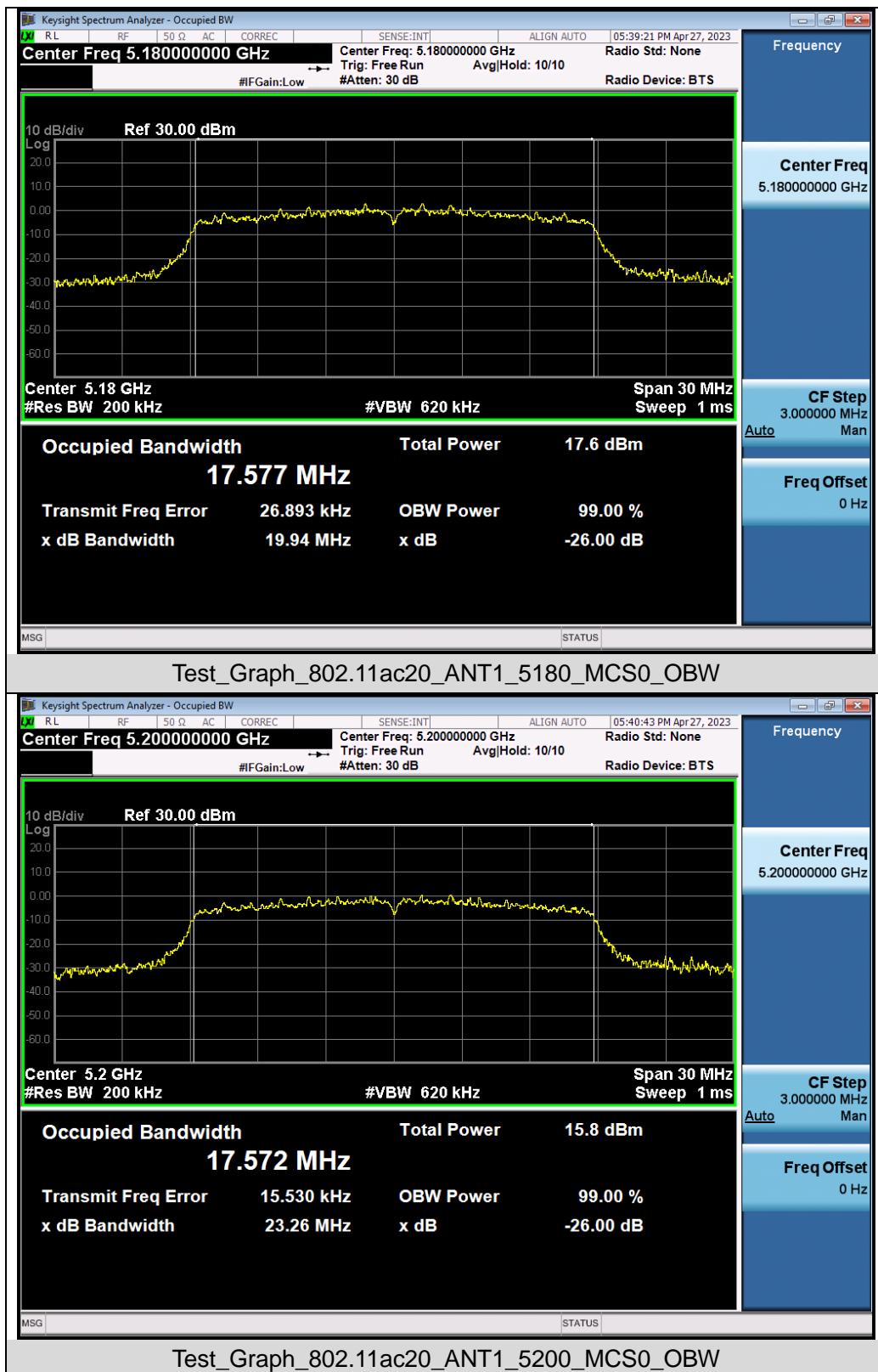


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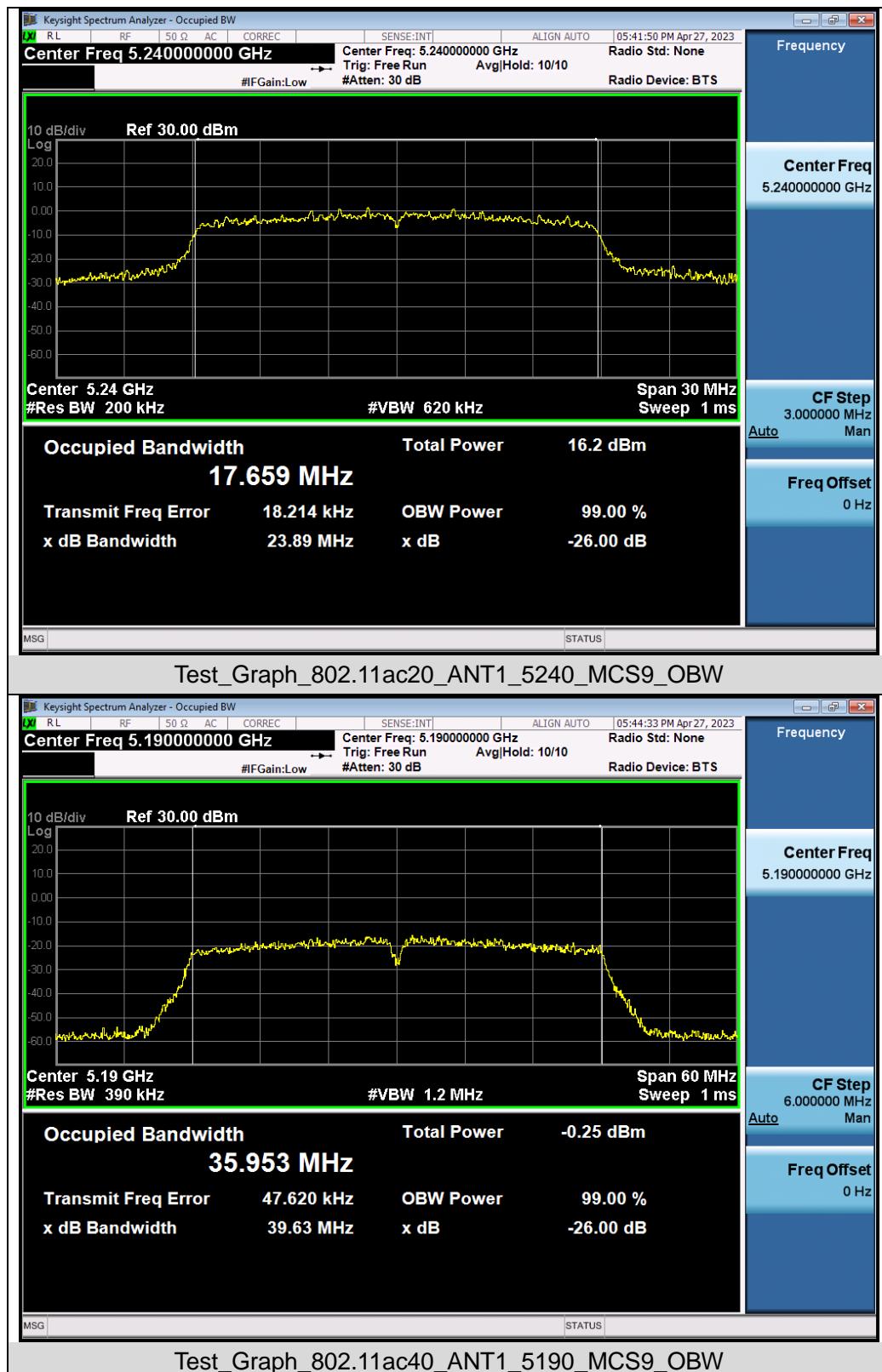


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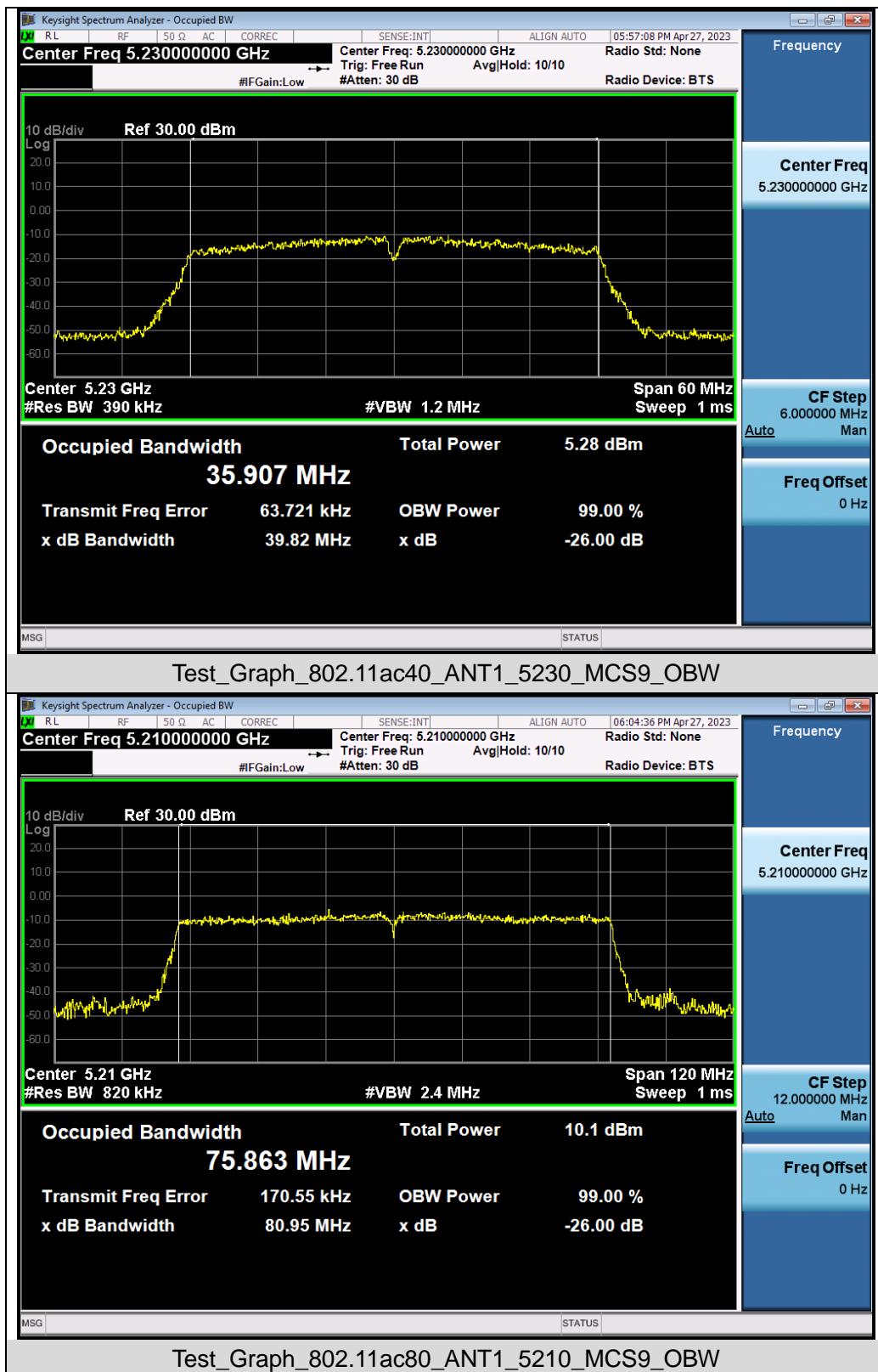


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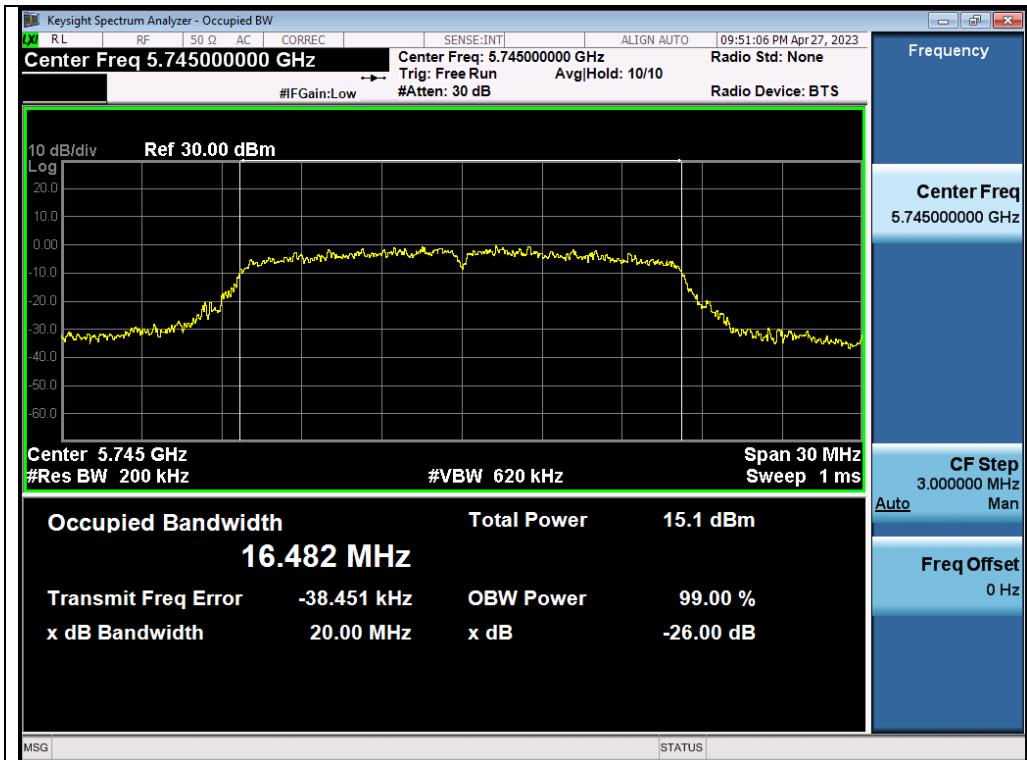
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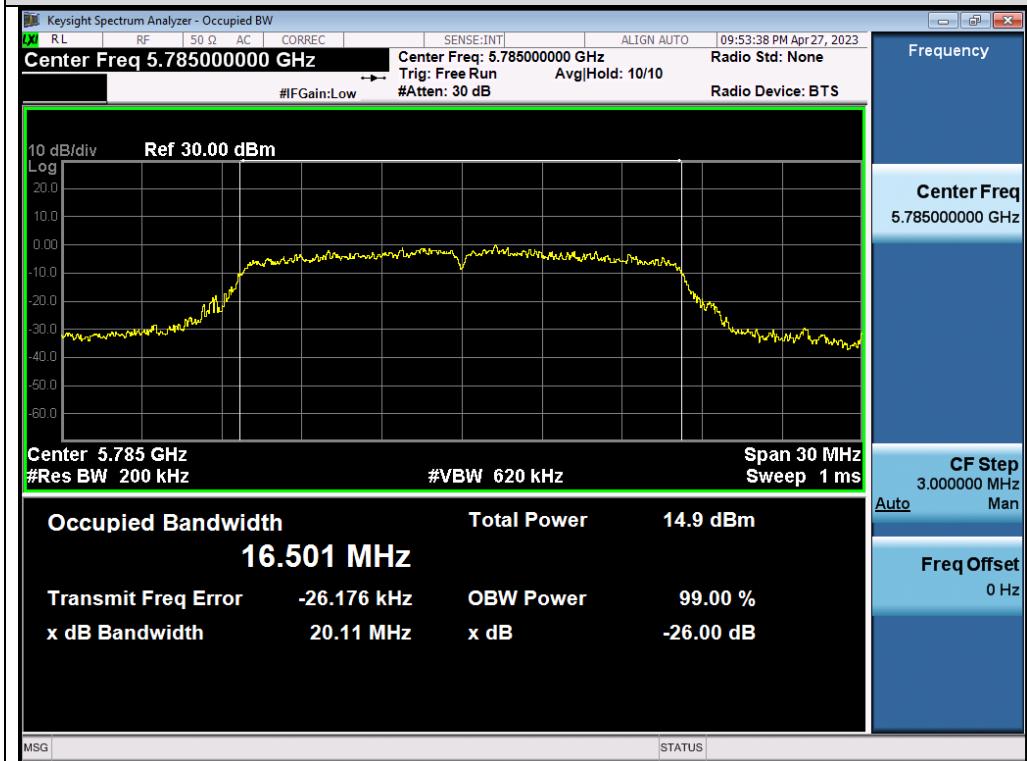
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



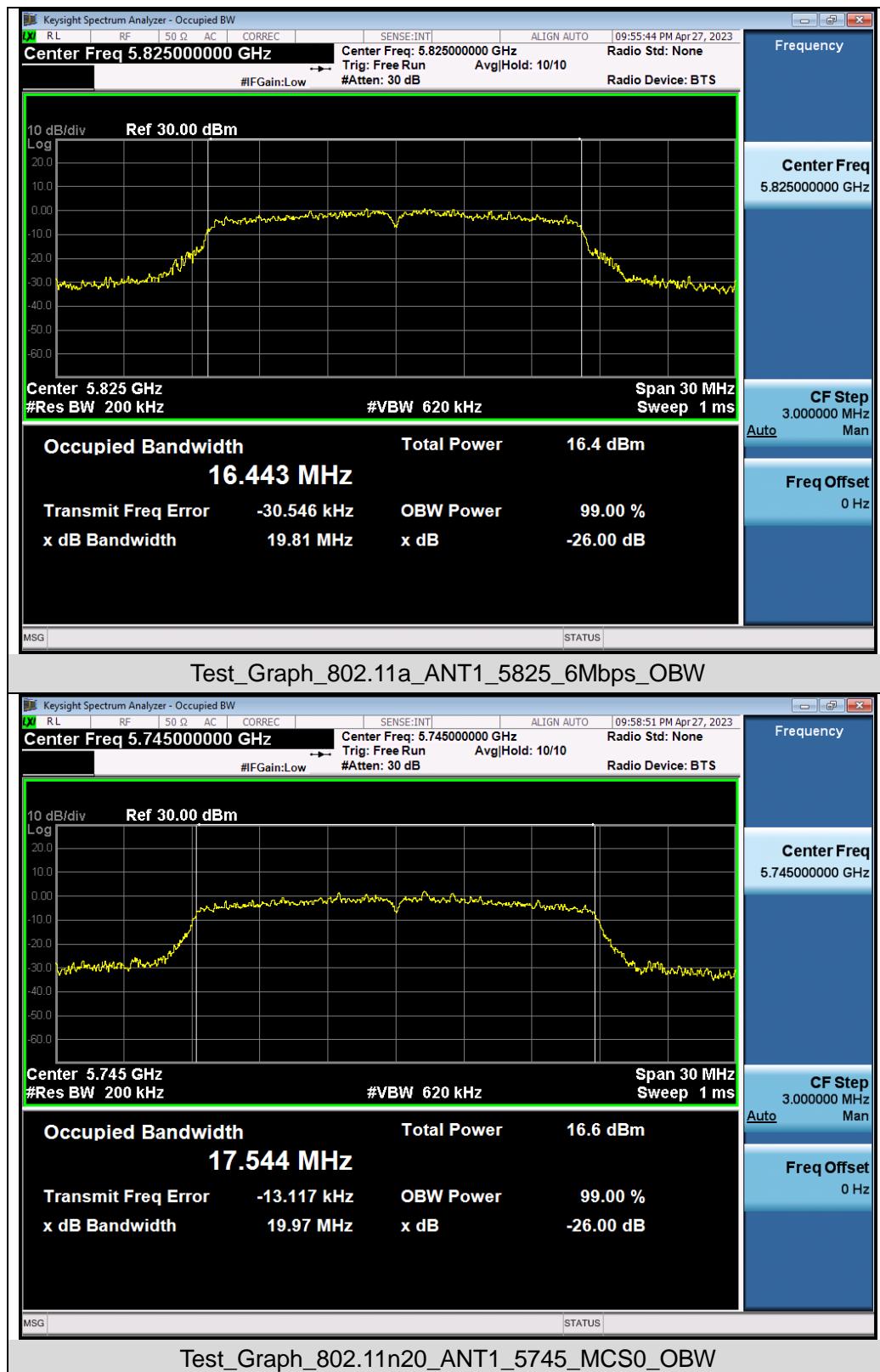
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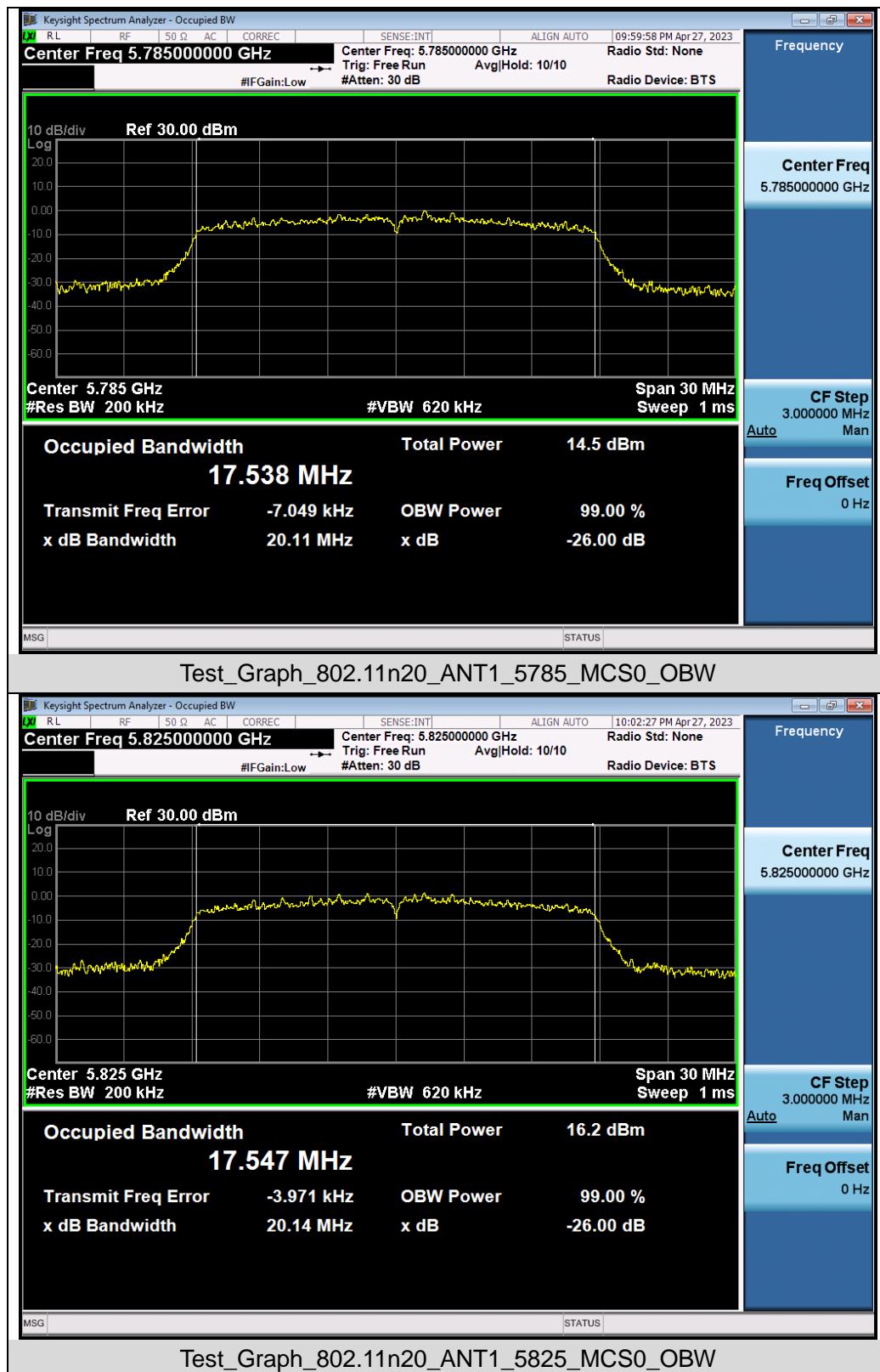


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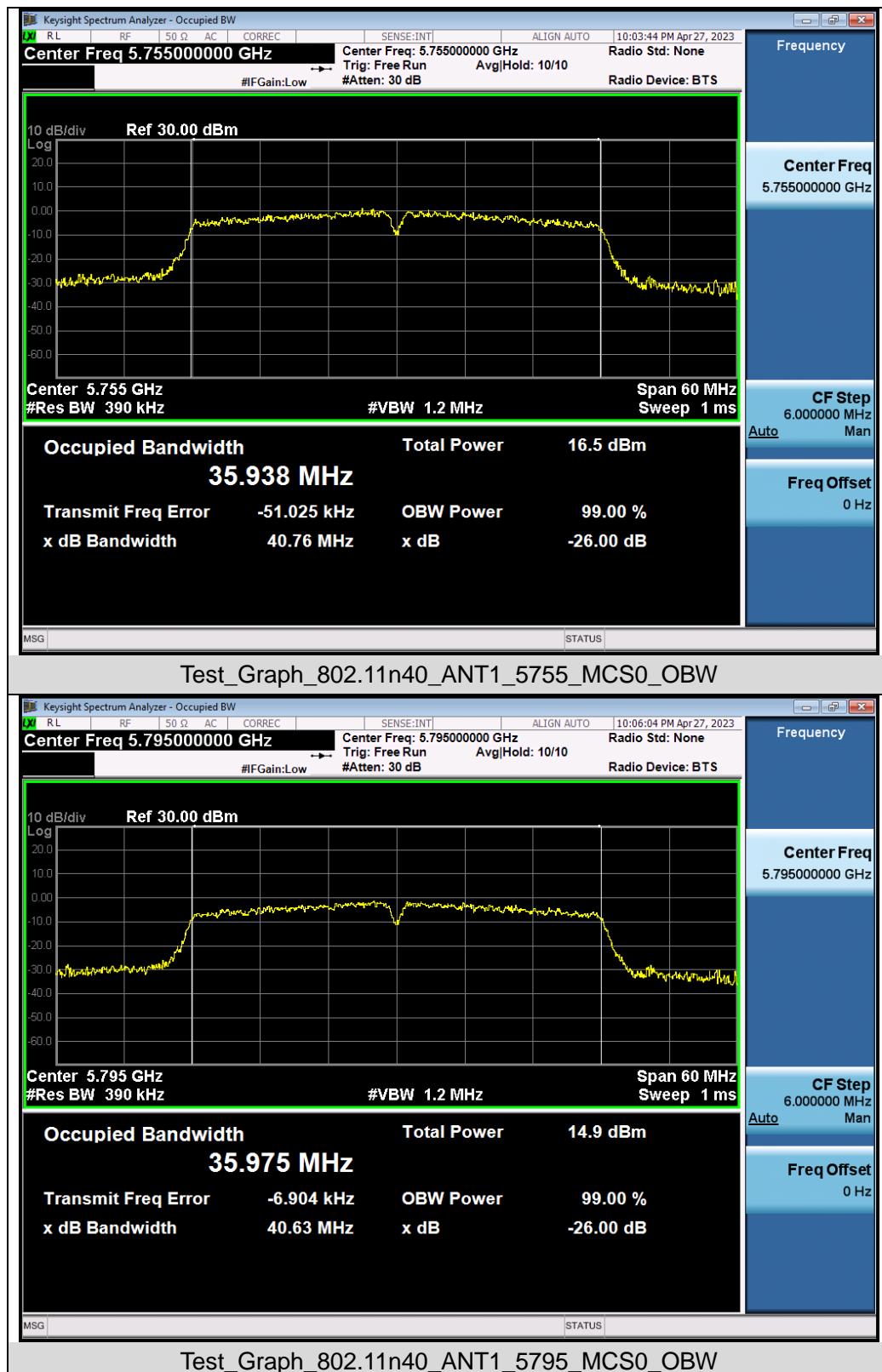


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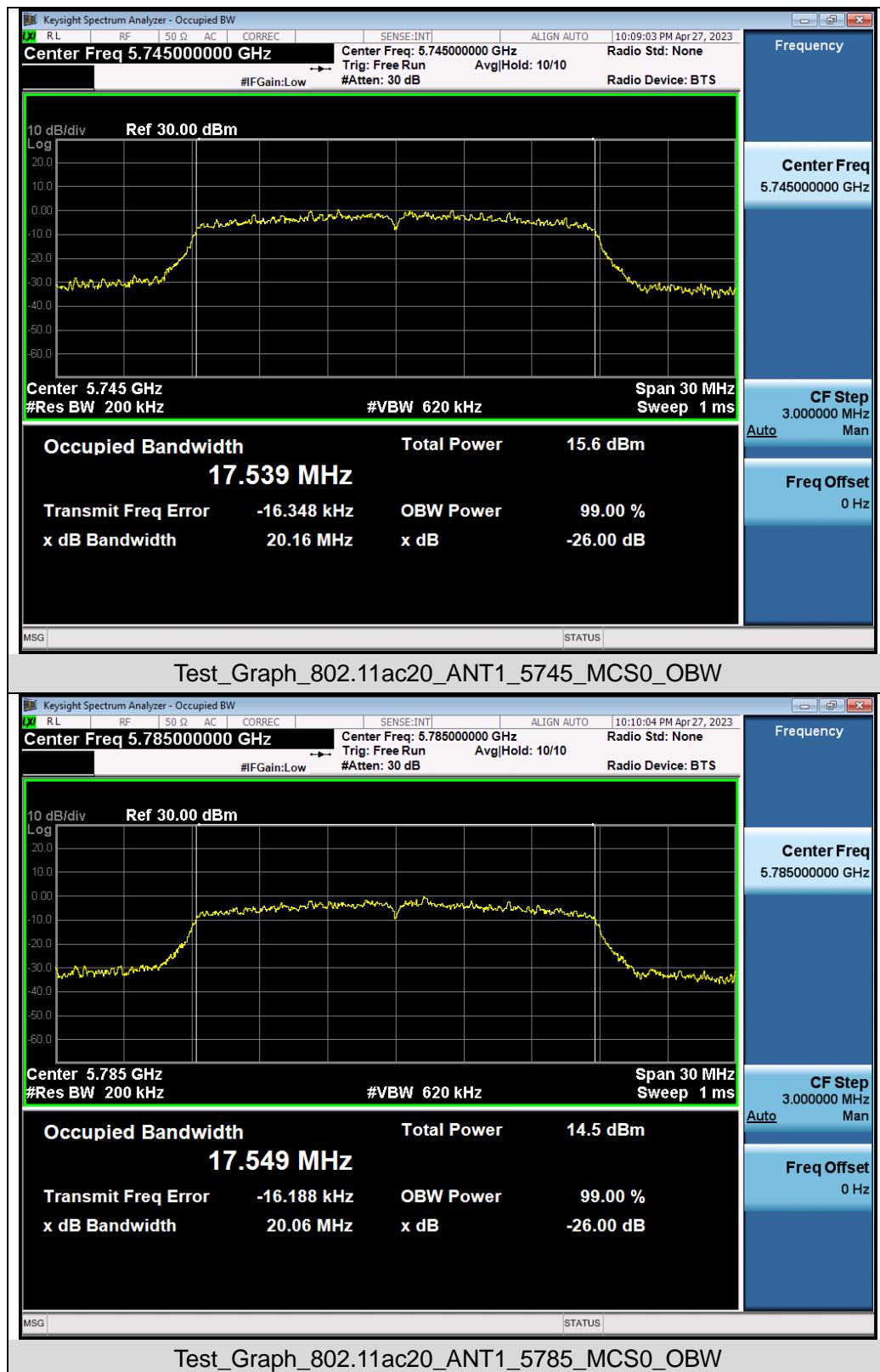


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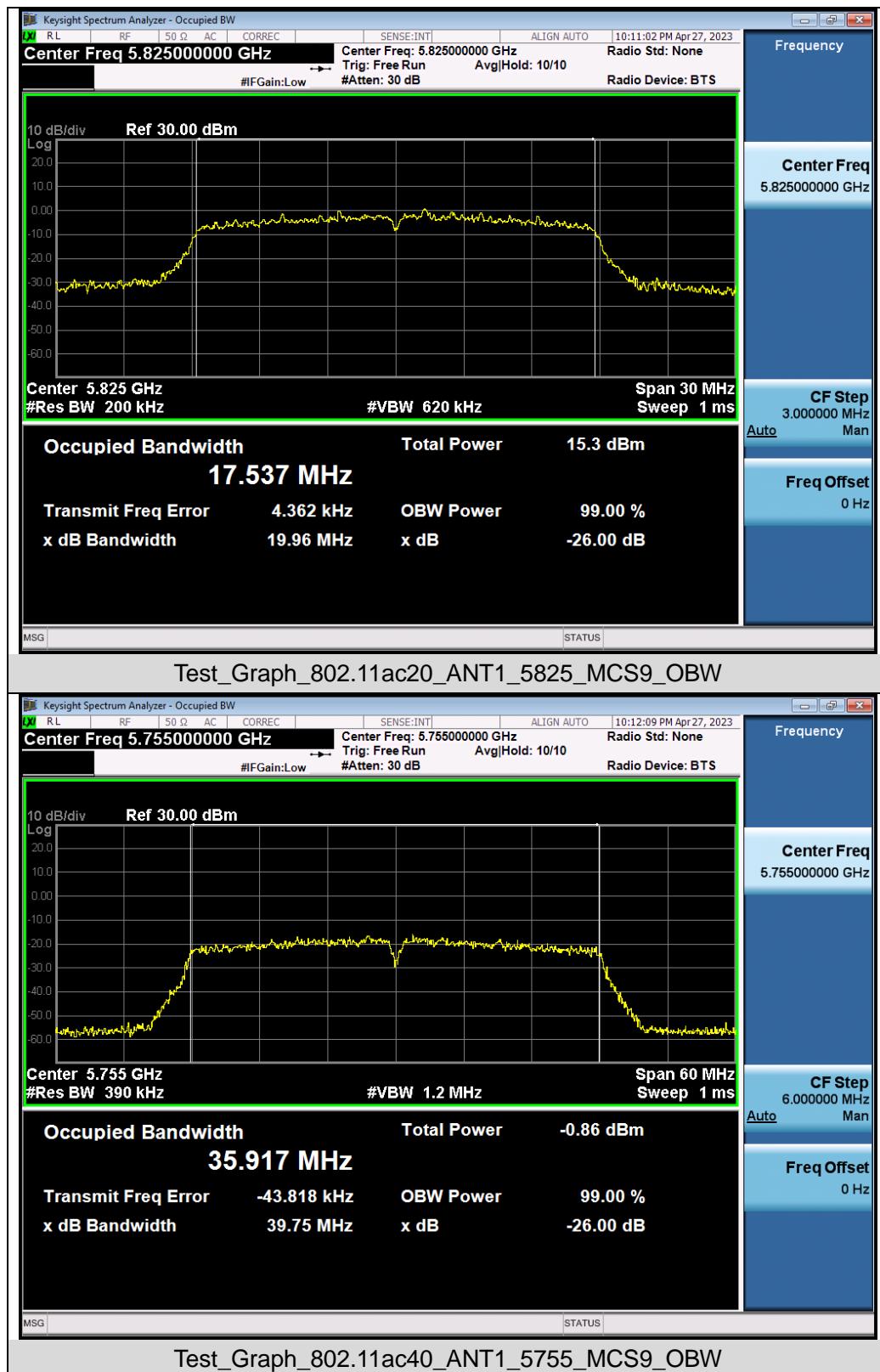


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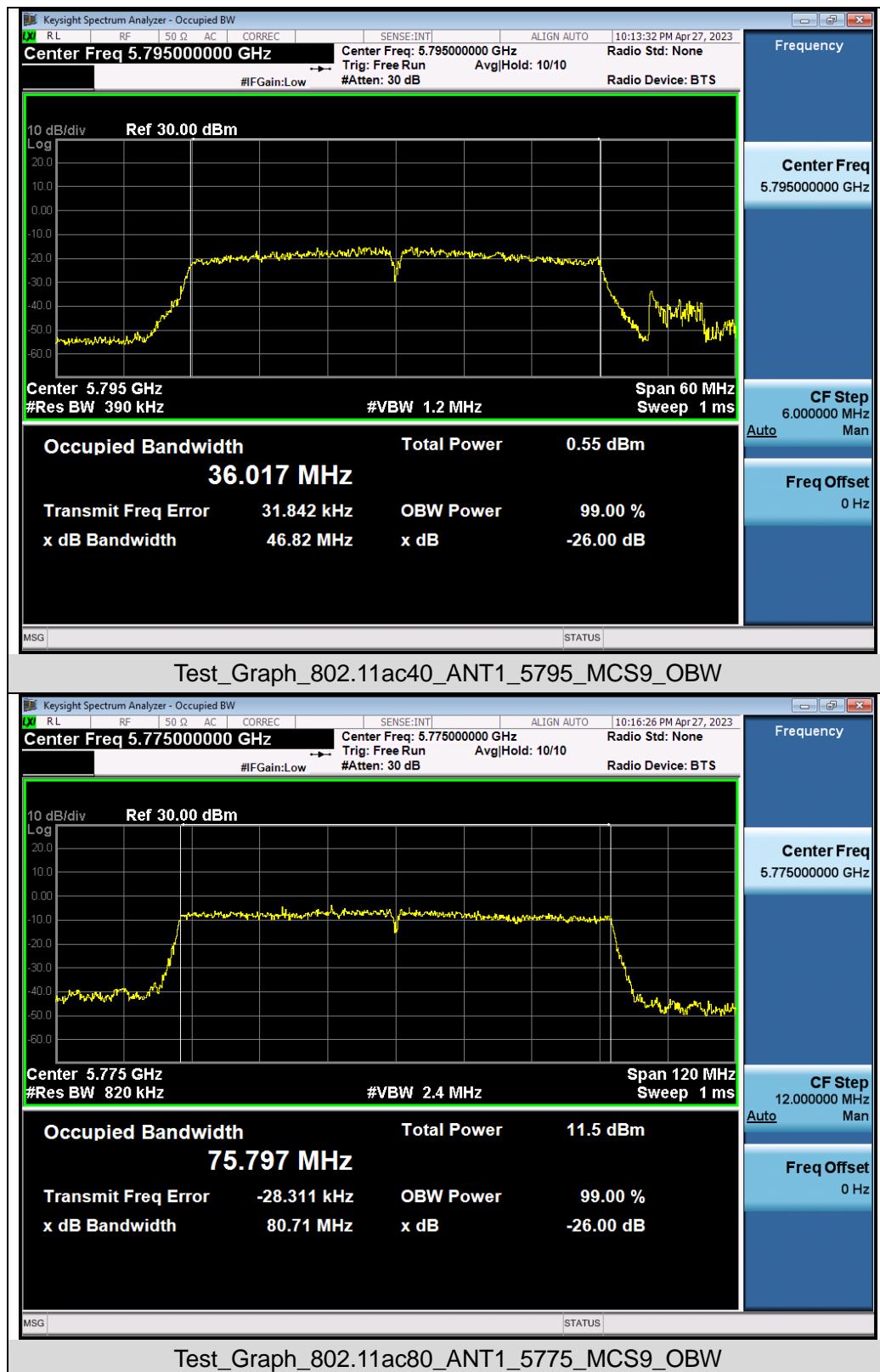


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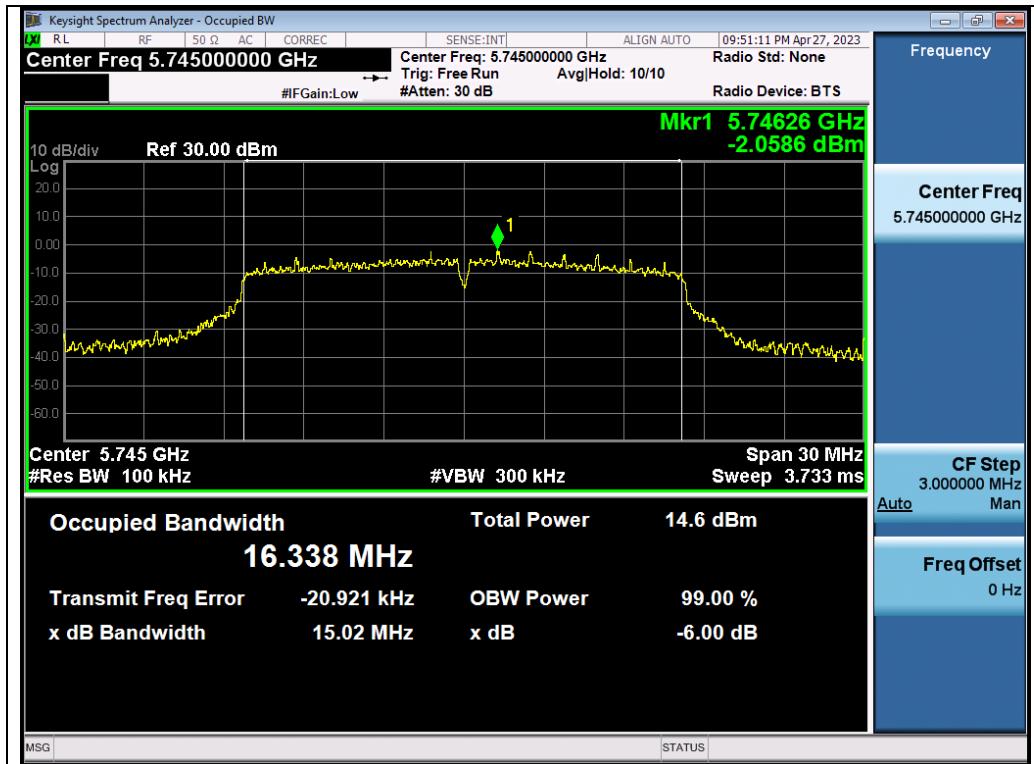
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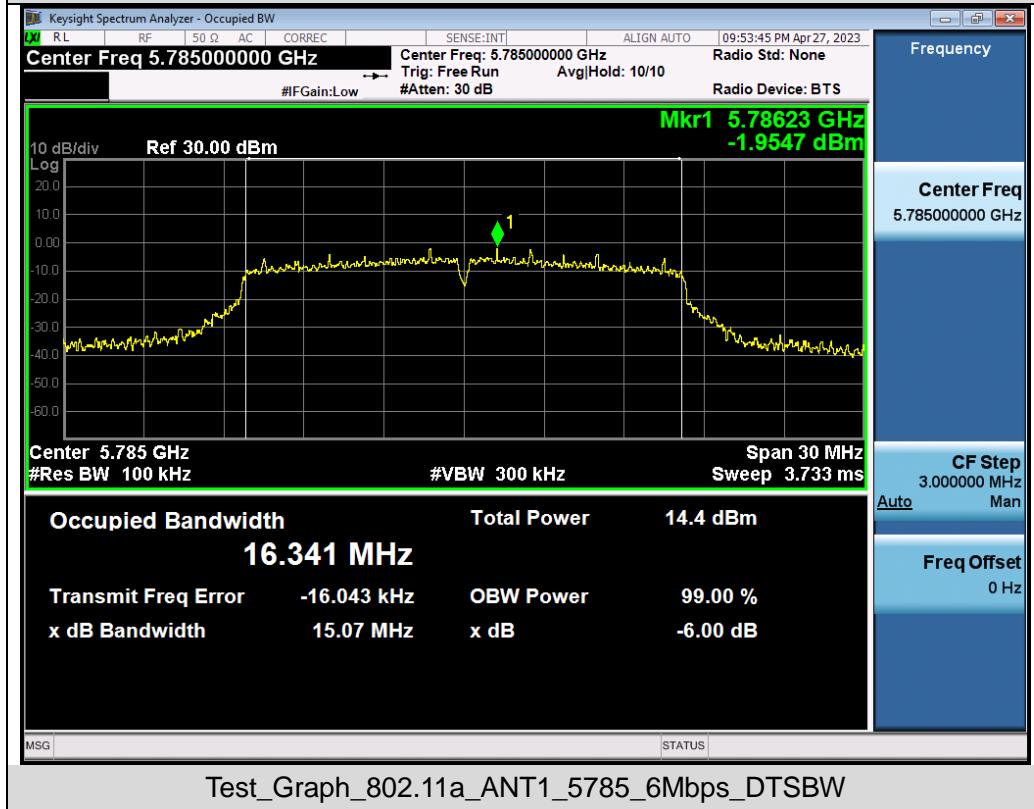
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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



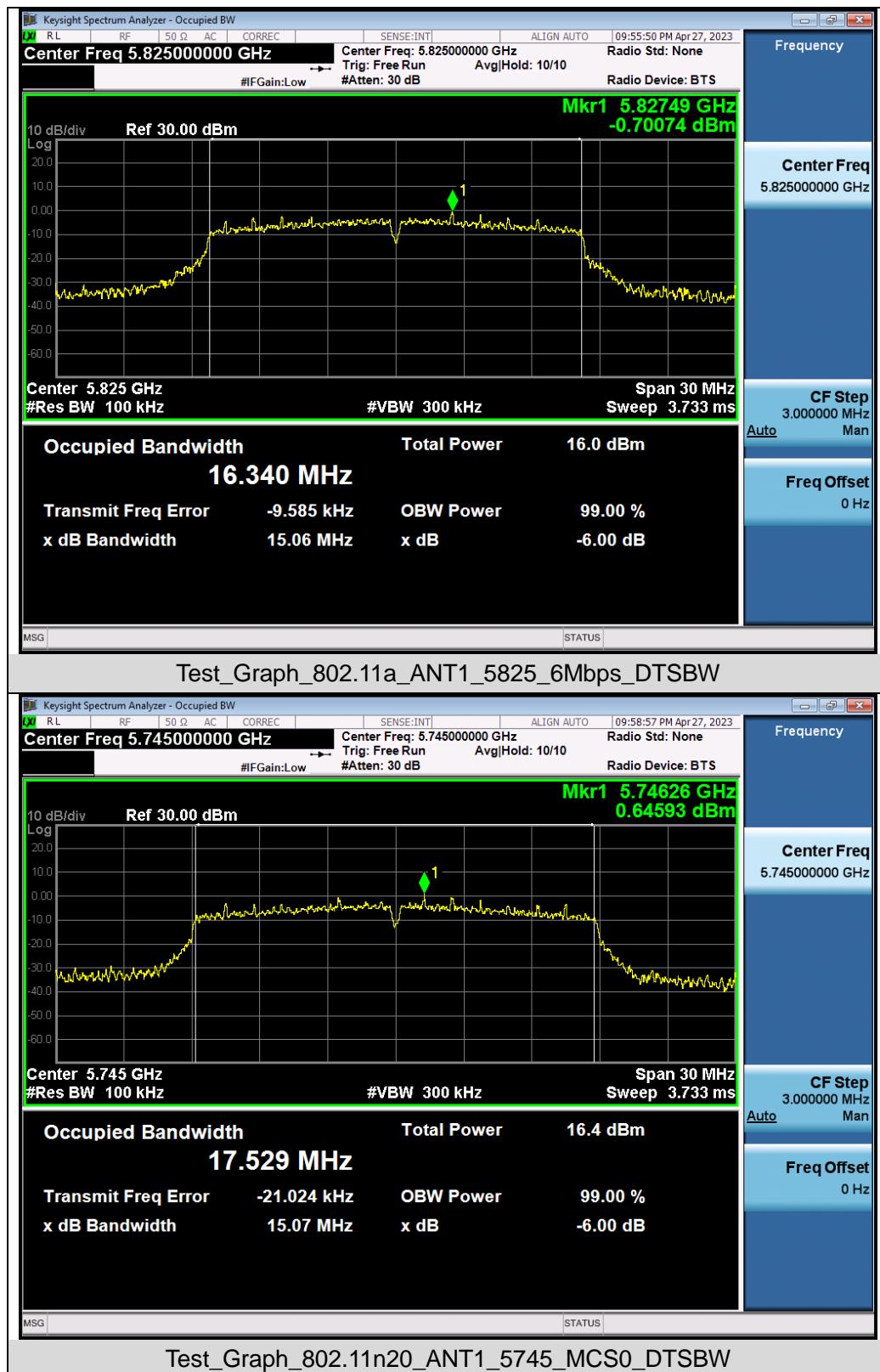
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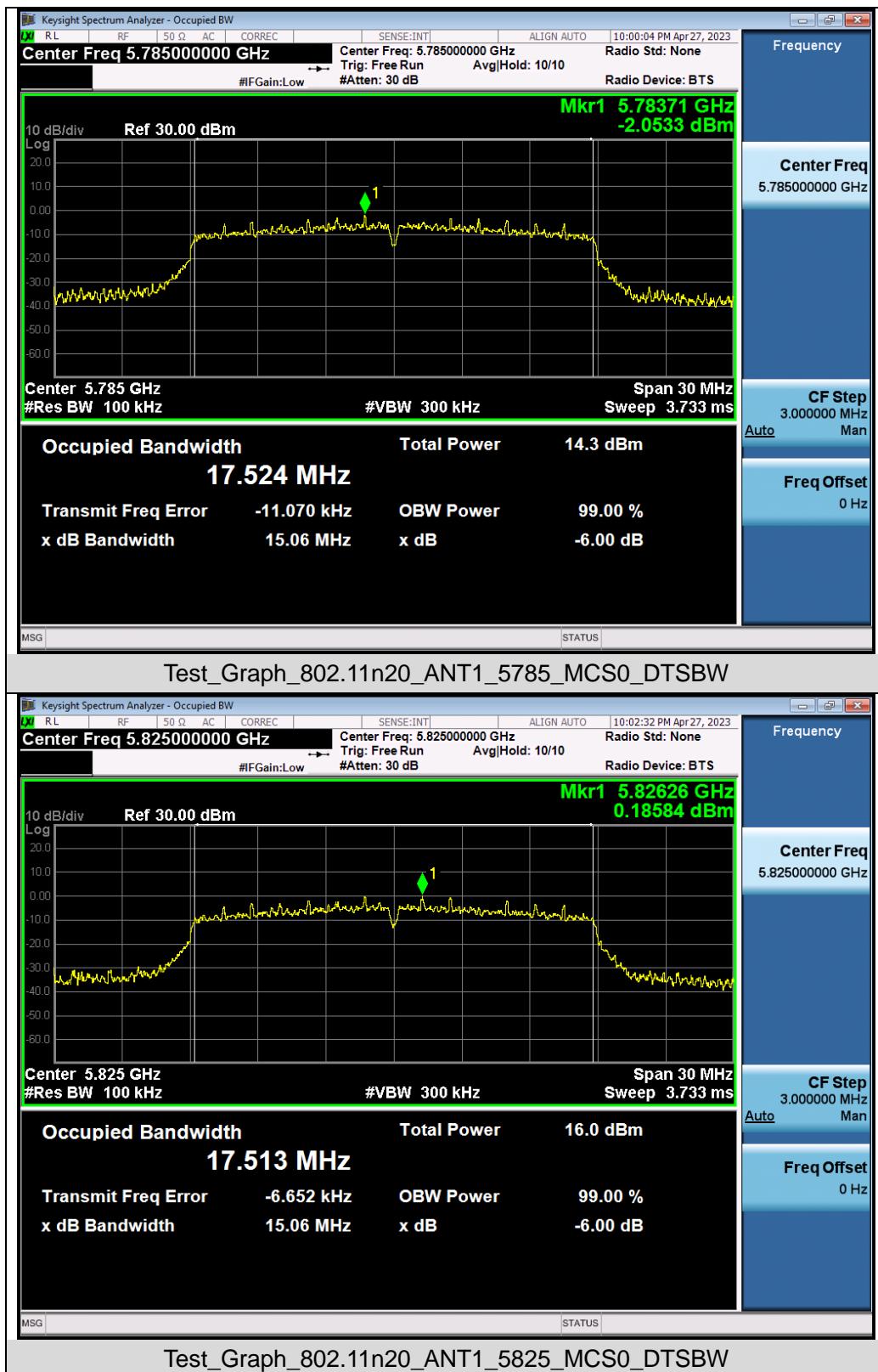


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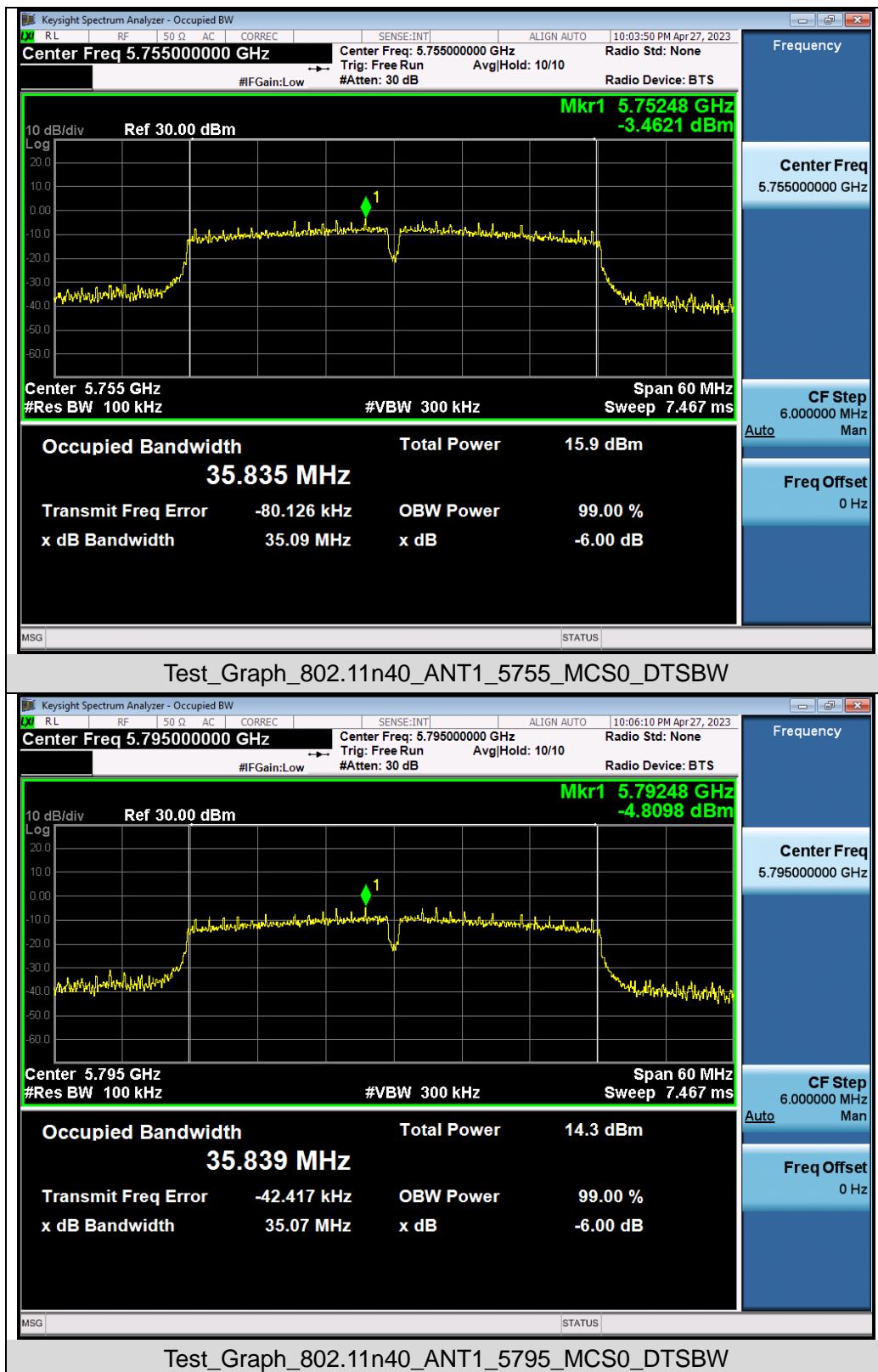


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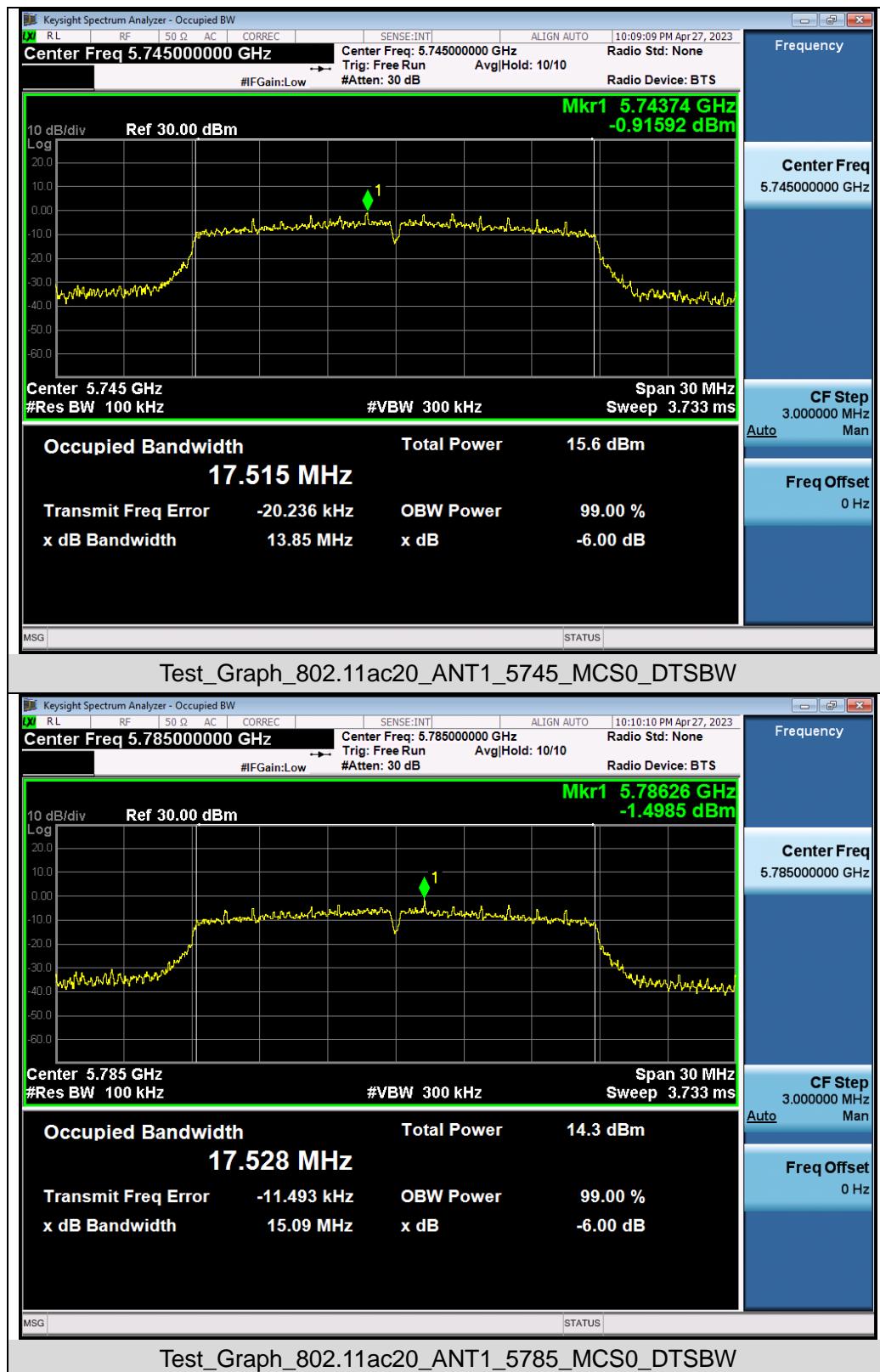


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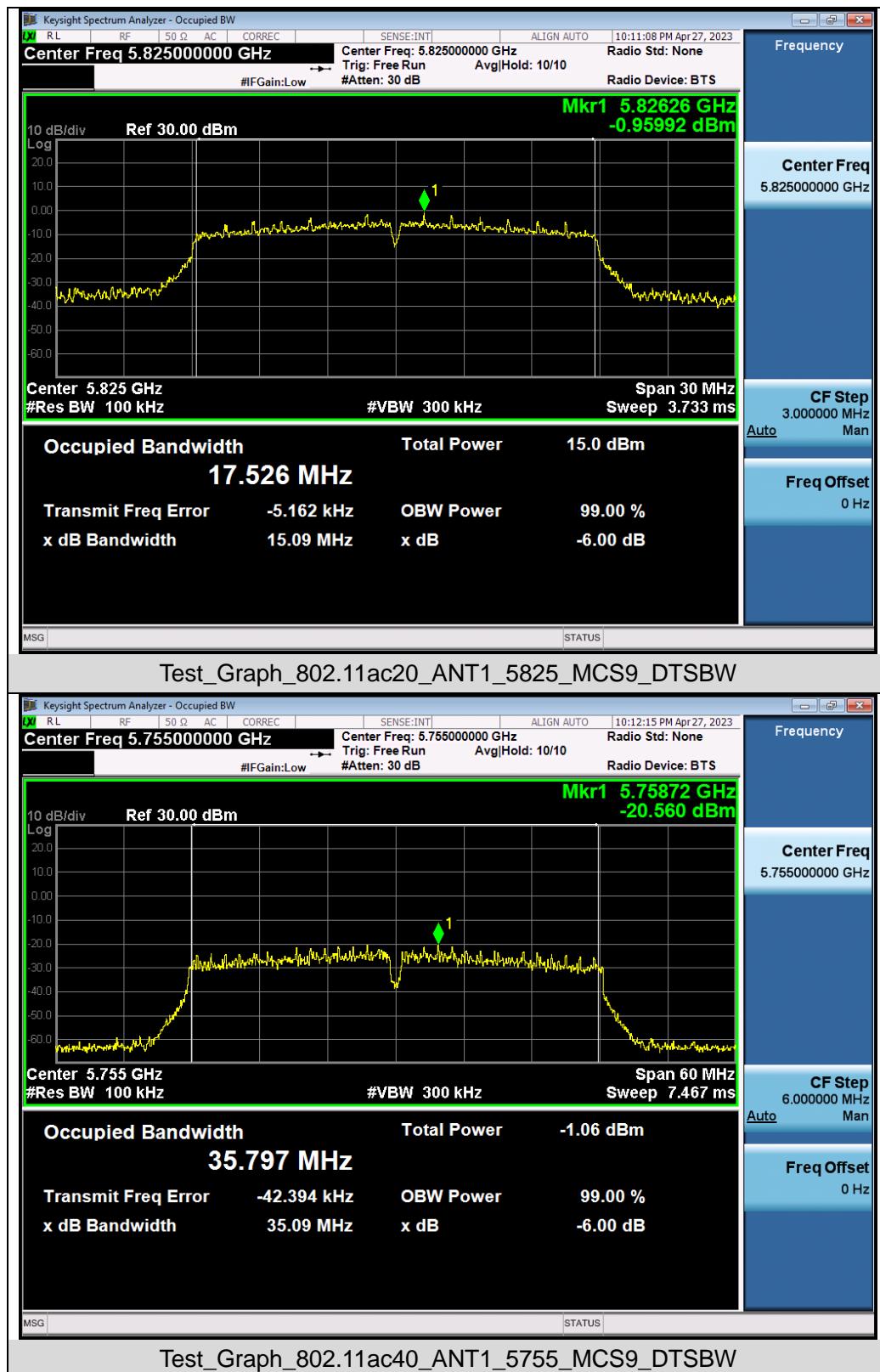


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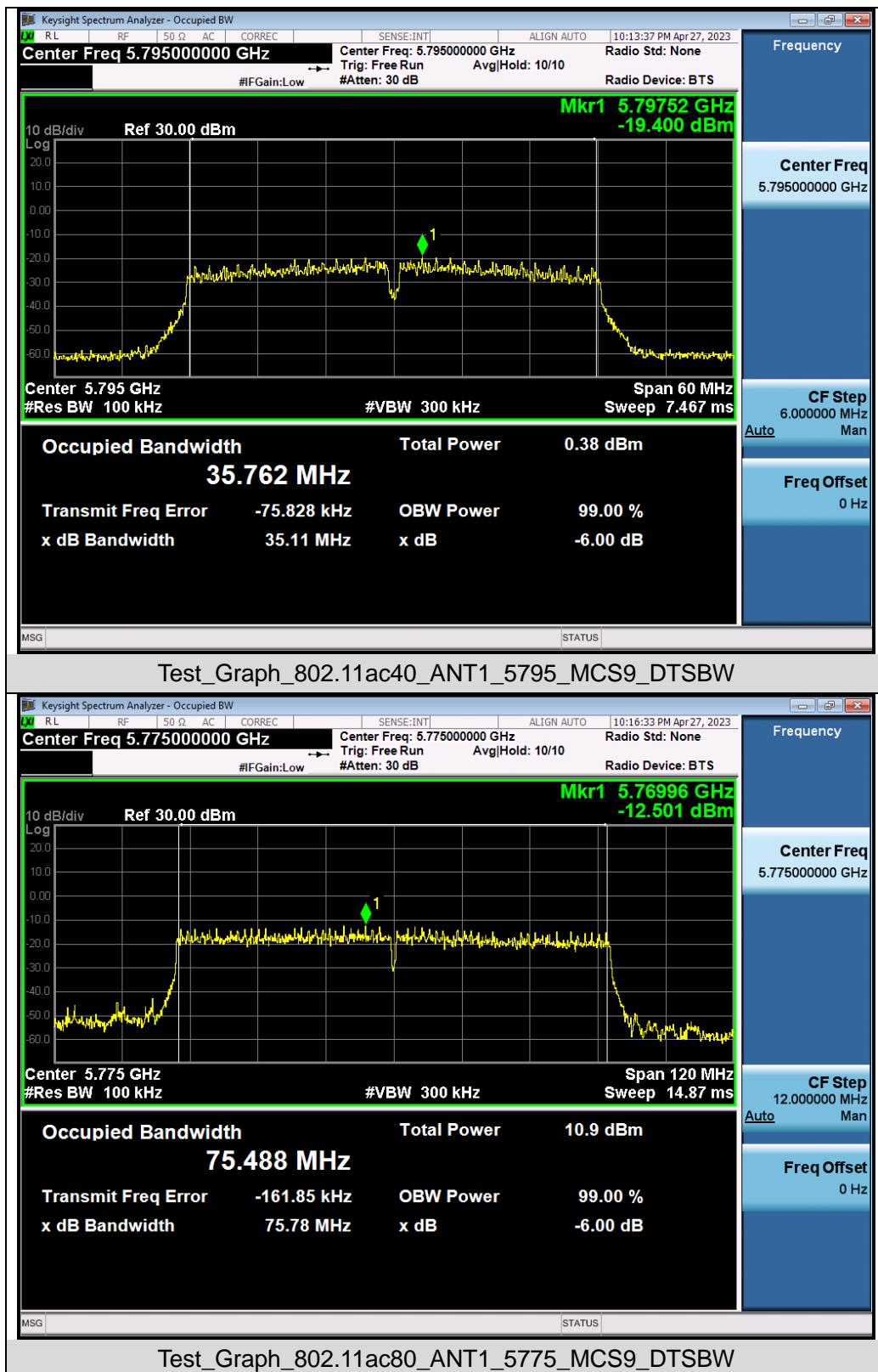


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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

9.1. MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

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

Refer to Section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

9.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power Density for band 5.15-5.25 GHz | | | | |
|--|--------------------|---------------------------------|------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a | 5180 | 1.967 | 11 | Pass |
| | 5200 | 2.683 | 11 | Pass |
| | 5240 | 2.224 | 11 | Pass |
| 802.11n20 | 5180 | 1.681 | 11 | Pass |
| | 5200 | 1.117 | 11 | Pass |
| | 5240 | 2.014 | 11 | Pass |
| 802.11n40 | 5190 | -2.078 | 11 | Pass |
| | 5230 | -1.730 | 11 | Pass |
| 802.11ac20 | 5180 | 0.807 | 11 | Pass |
| | 5200 | 0.230 | 11 | Pass |
| | 5240 | 0.291 | 11 | Pass |
| 802.11ac40 | 5190 | -5.240 | 11 | Pass |
| | 5230 | -3.827 | 11 | Pass |
| 802.11ac80 | 5210 | -6.531 | 11 | Pass |

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz

| Test Mode | Test Channel (MHz) | Average Power Density (dBm/100kHz) | Average Power Density (dBm/500kHz) | Limits (dBm/500kHz) | Pass or Fail |
|------------|--------------------|------------------------------------|------------------------------------|---------------------|--------------|
| 802.11a | 5745 | -8.524 | -1.534 | 30 | Pass |
| | 5785 | -8.703 | -1.713 | 30 | Pass |
| | 5825 | -8.131 | -1.141 | 30 | Pass |
| 802.11n20 | 5745 | -8.603 | -1.613 | 30 | Pass |
| | 5785 | -8.823 | -1.833 | 30 | Pass |
| | 5825 | -8.425 | -1.435 | 30 | Pass |
| 802.11n40 | 5755 | -12.011 | -5.021 | 30 | Pass |
| | 5795 | -12.135 | -5.145 | 30 | Pass |
| 802.11ac20 | 5745 | -8.601 | -1.611 | 30 | Pass |
| | 5785 | -9.613 | -2.623 | 30 | Pass |
| | 5825 | -9.368 | -2.378 | 30 | Pass |
| 802.11ac40 | 5755 | -10.421 | -3.431 | 30 | Pass |
| | 5795 | -10.245 | -3.255 | 30 | Pass |
| 802.11ac80 | 5775 | -11.792 | -4.802 | 30 | Pass |

Note:1. Power density(dBm/500kHz) = Power density(dBm/100kHz) +10*log(500/100).

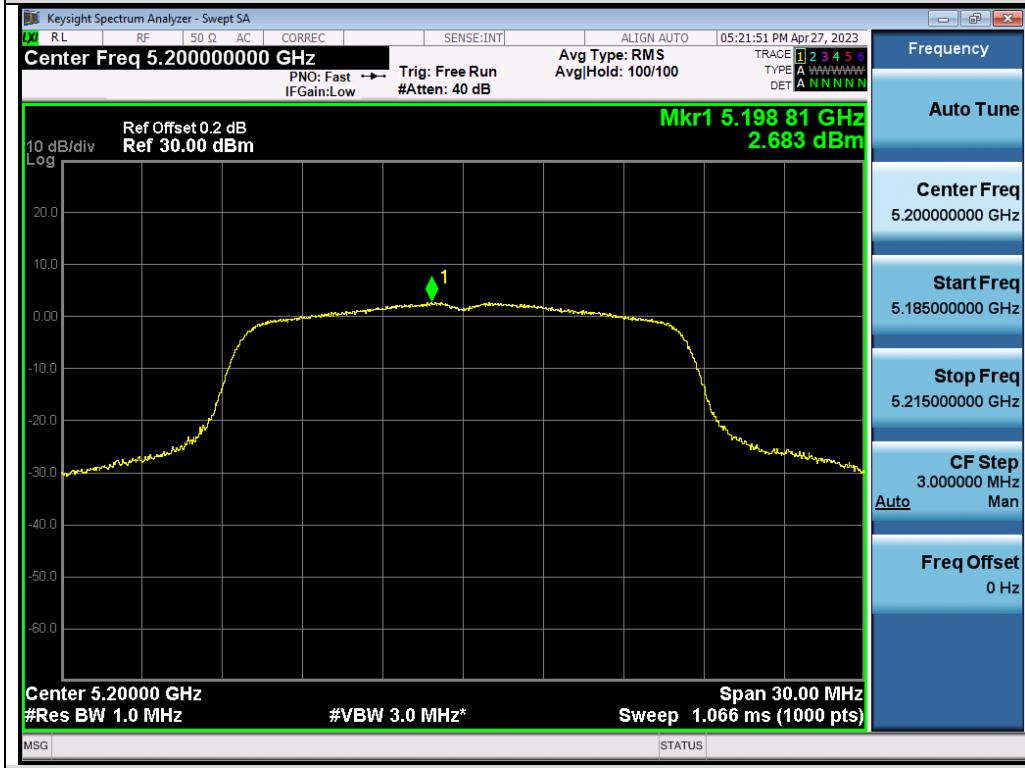
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz

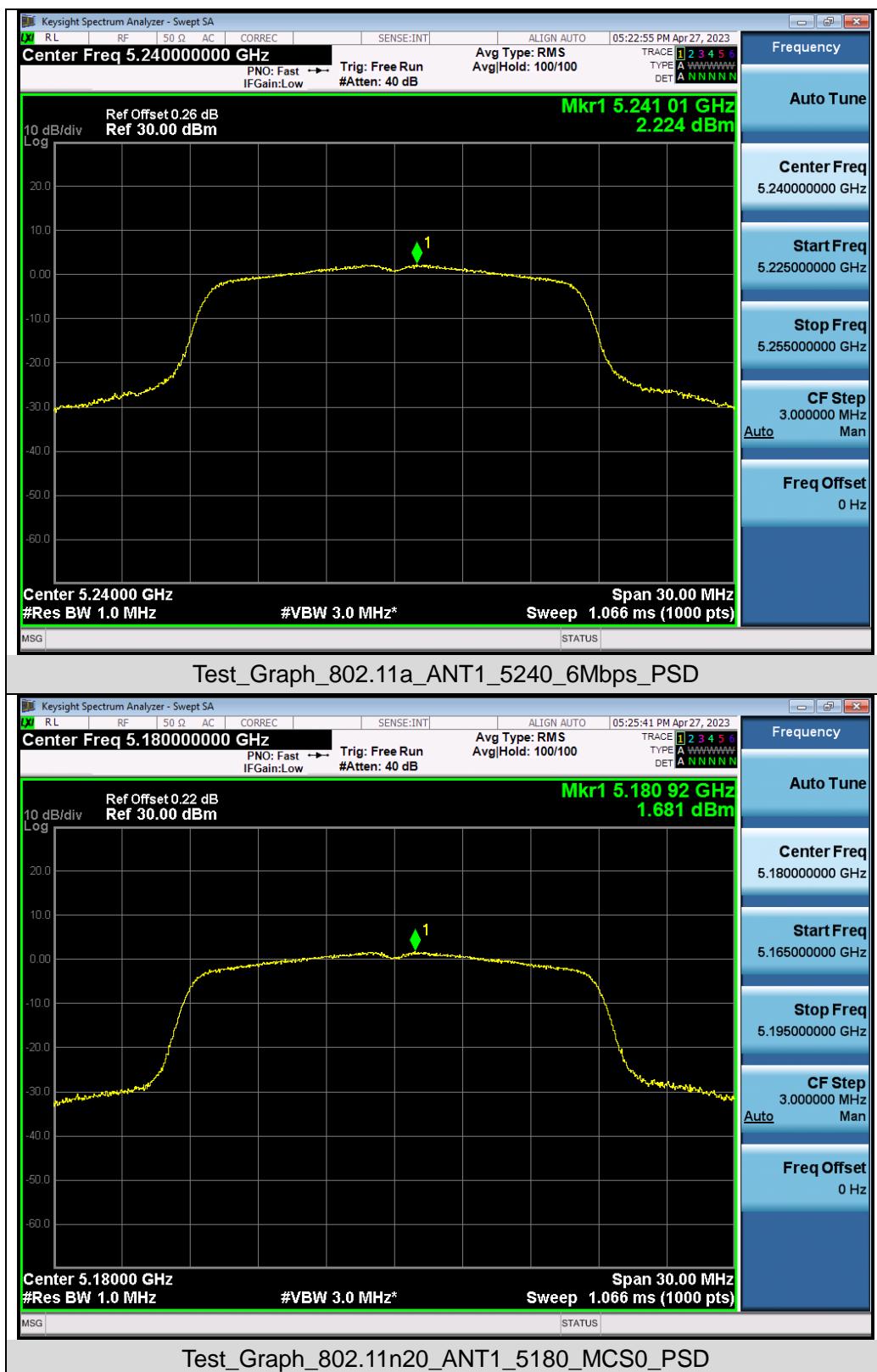
Test_Graph_802.11a_ANT1_5180_6Mbps_PSD

Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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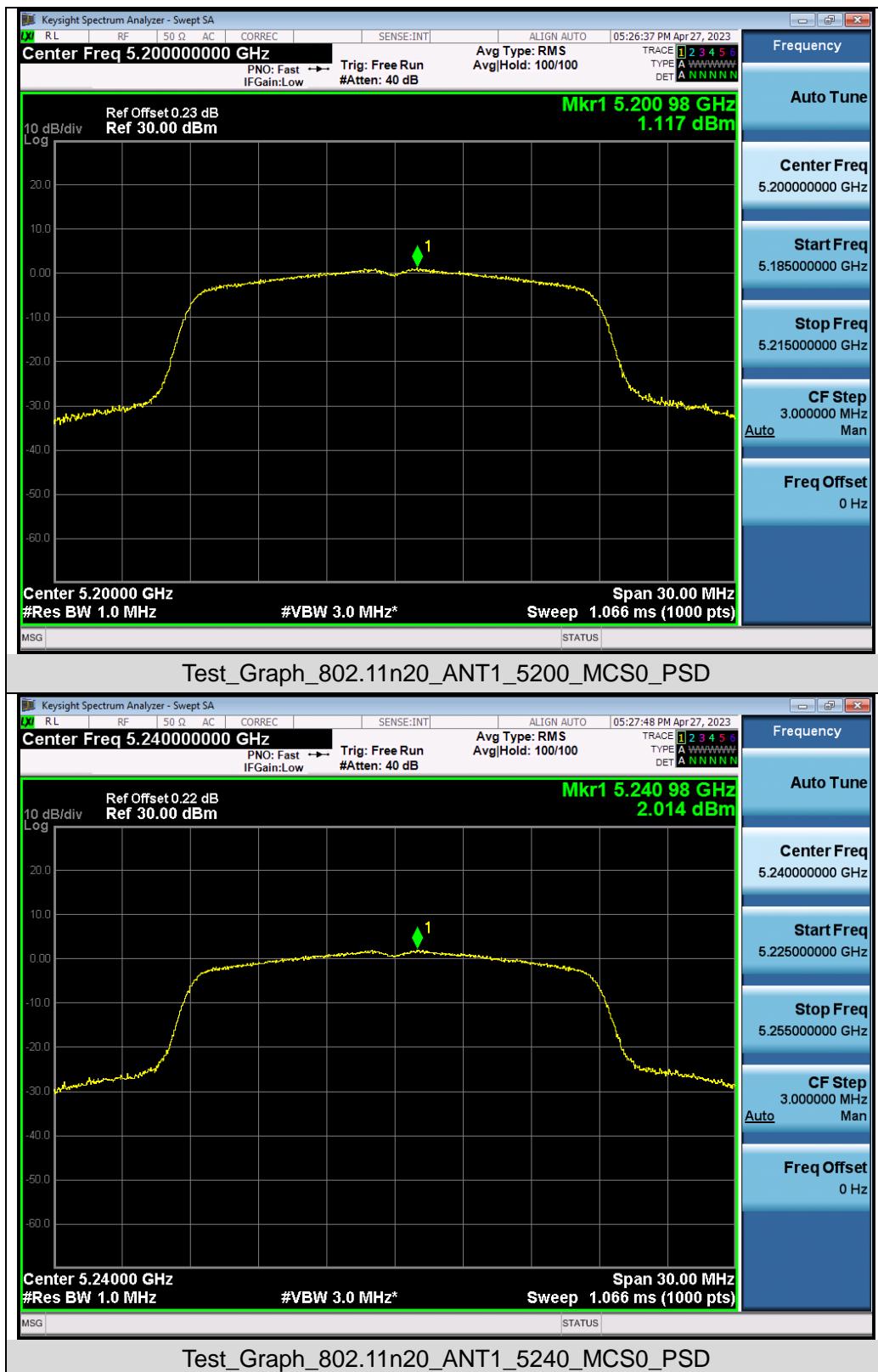


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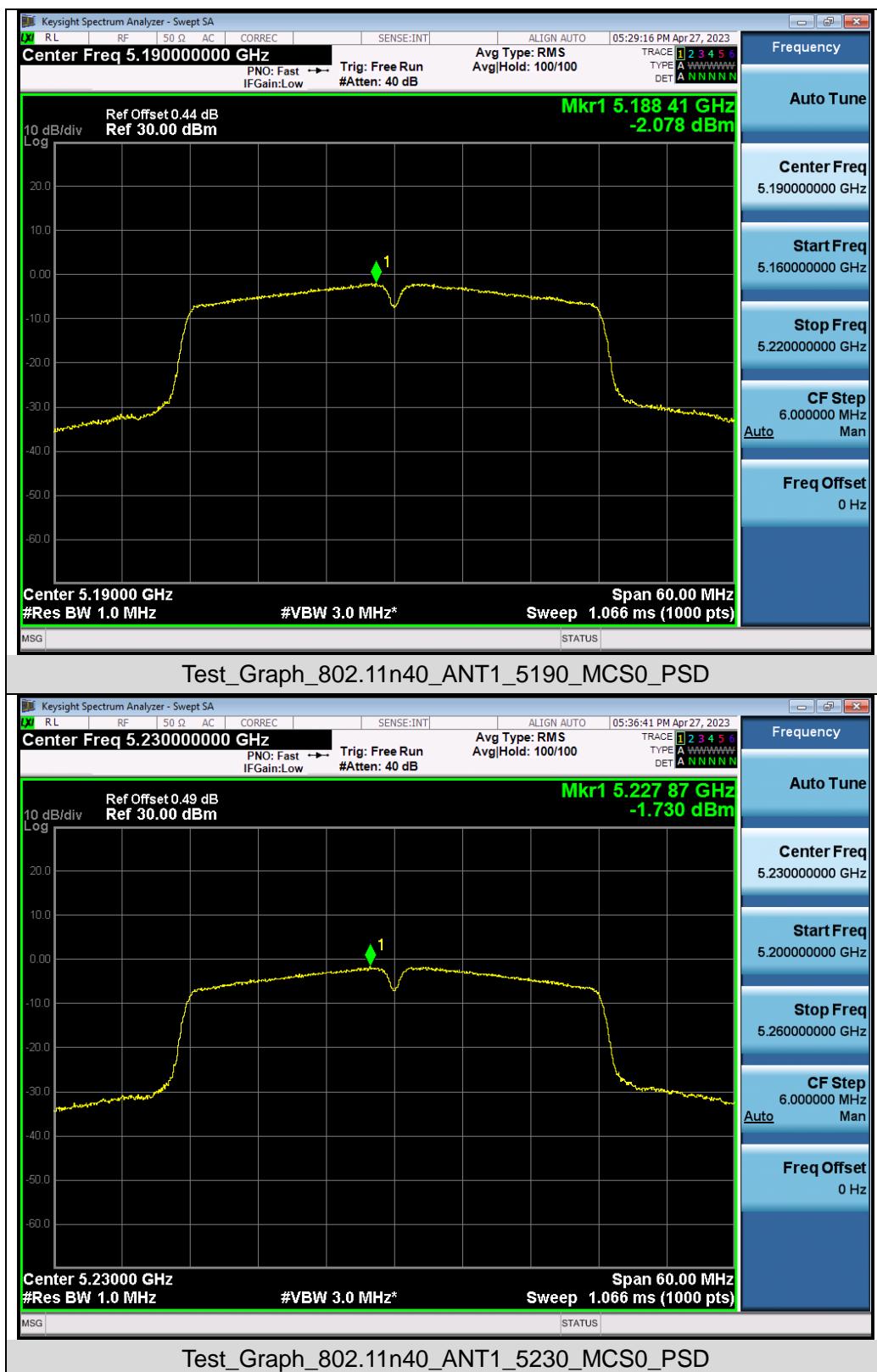


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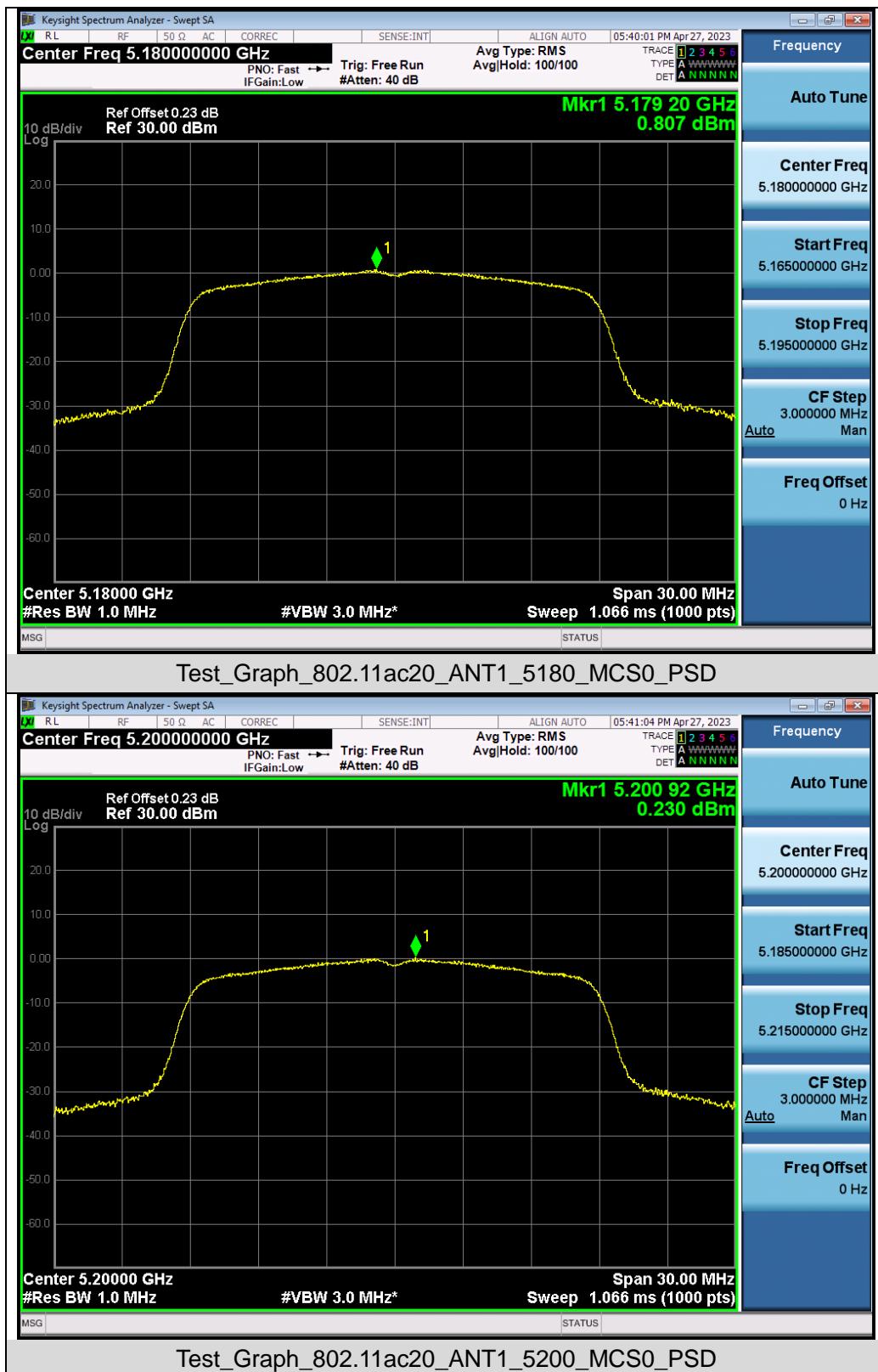


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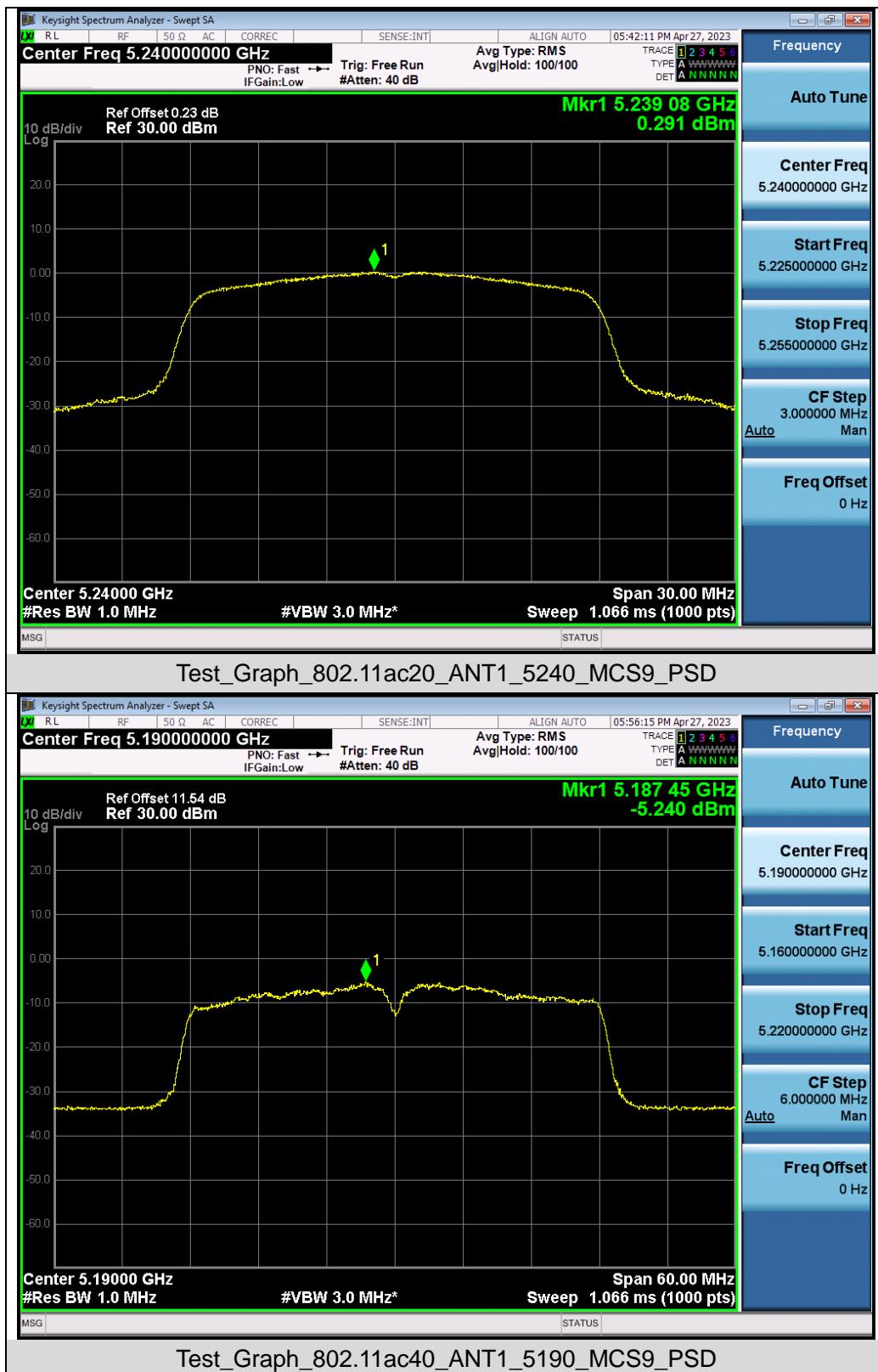


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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

Test_Graph_802.11a_ANT1_5745_6Mbps_PSD

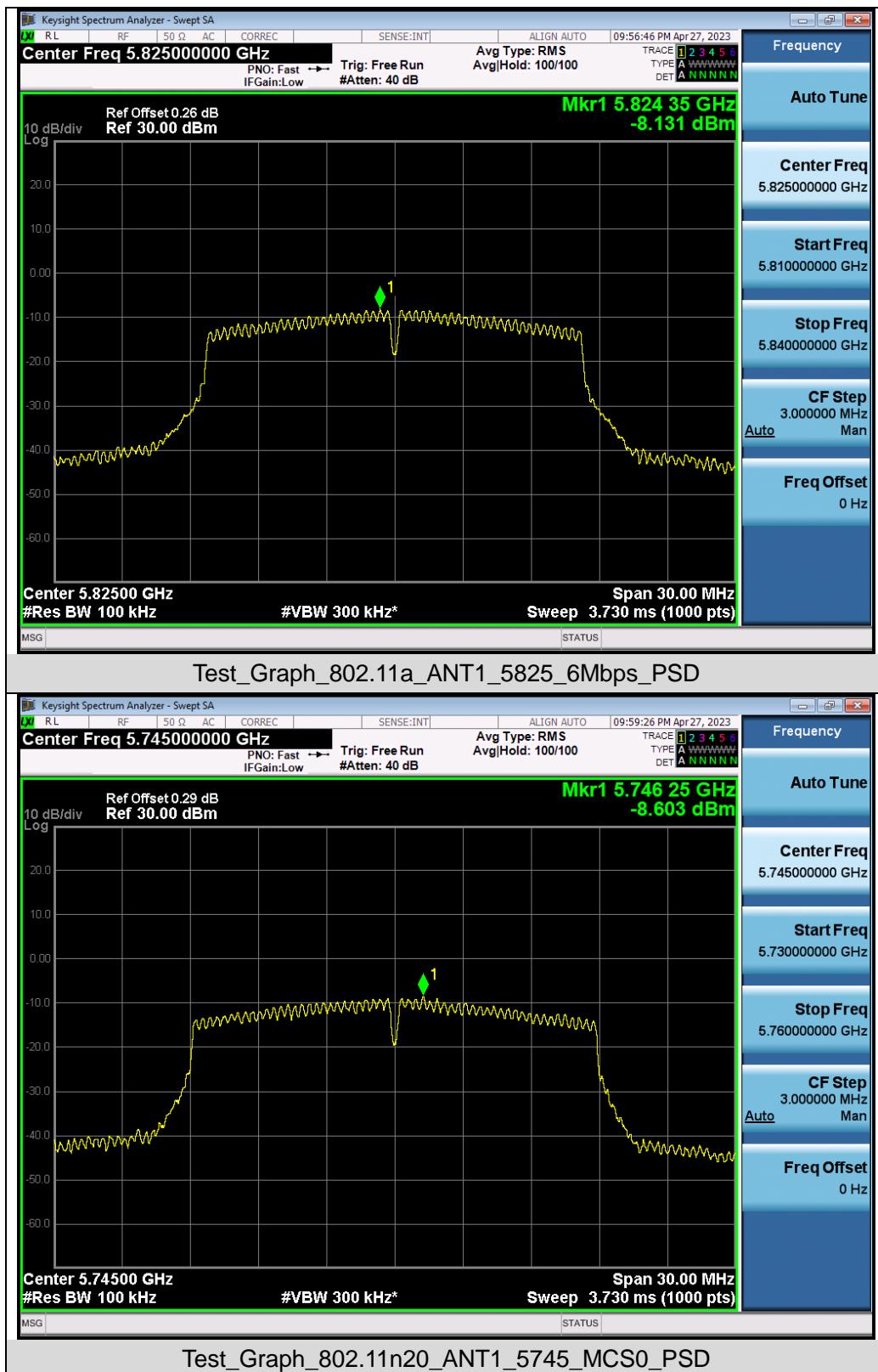
Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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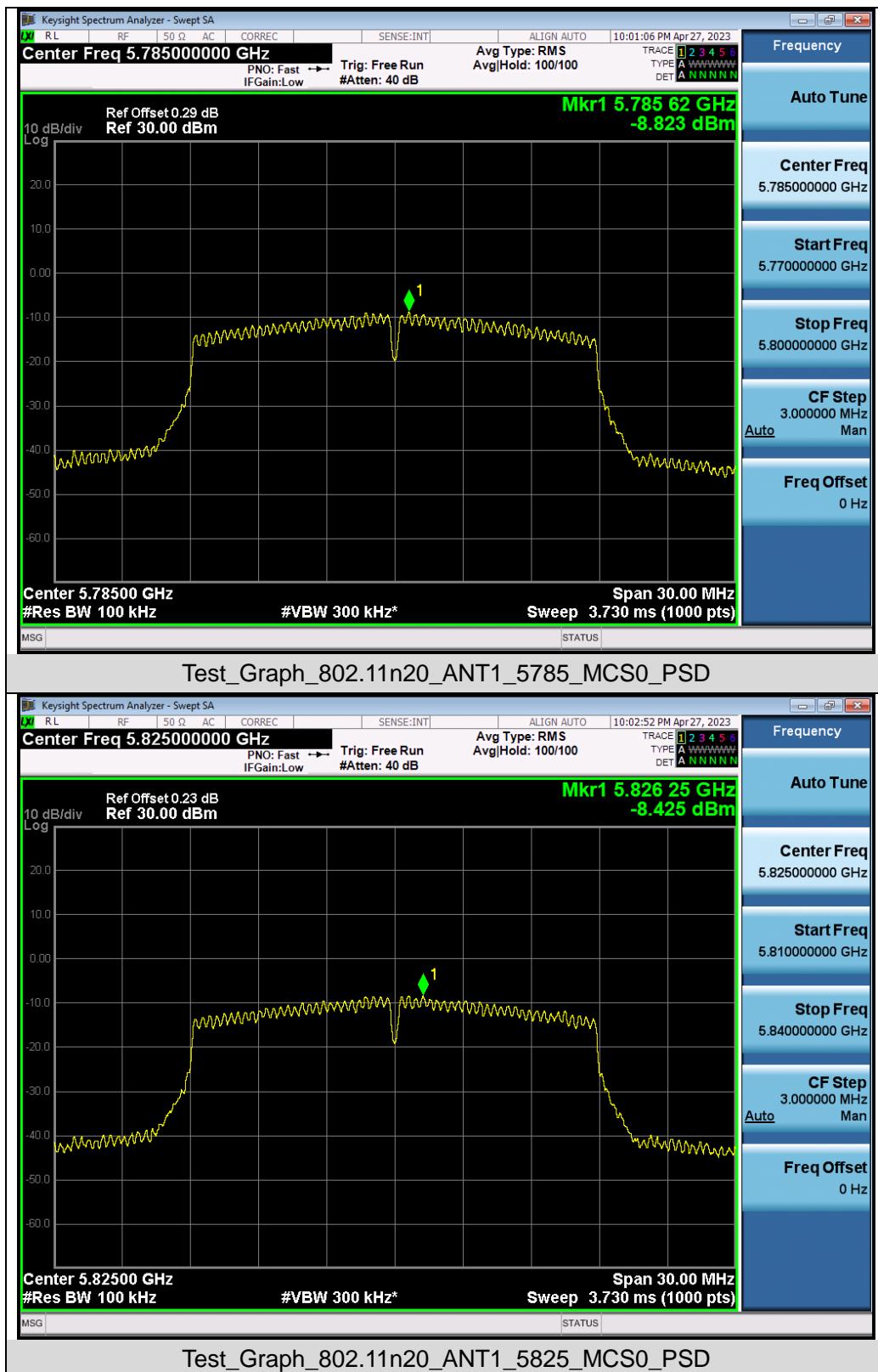


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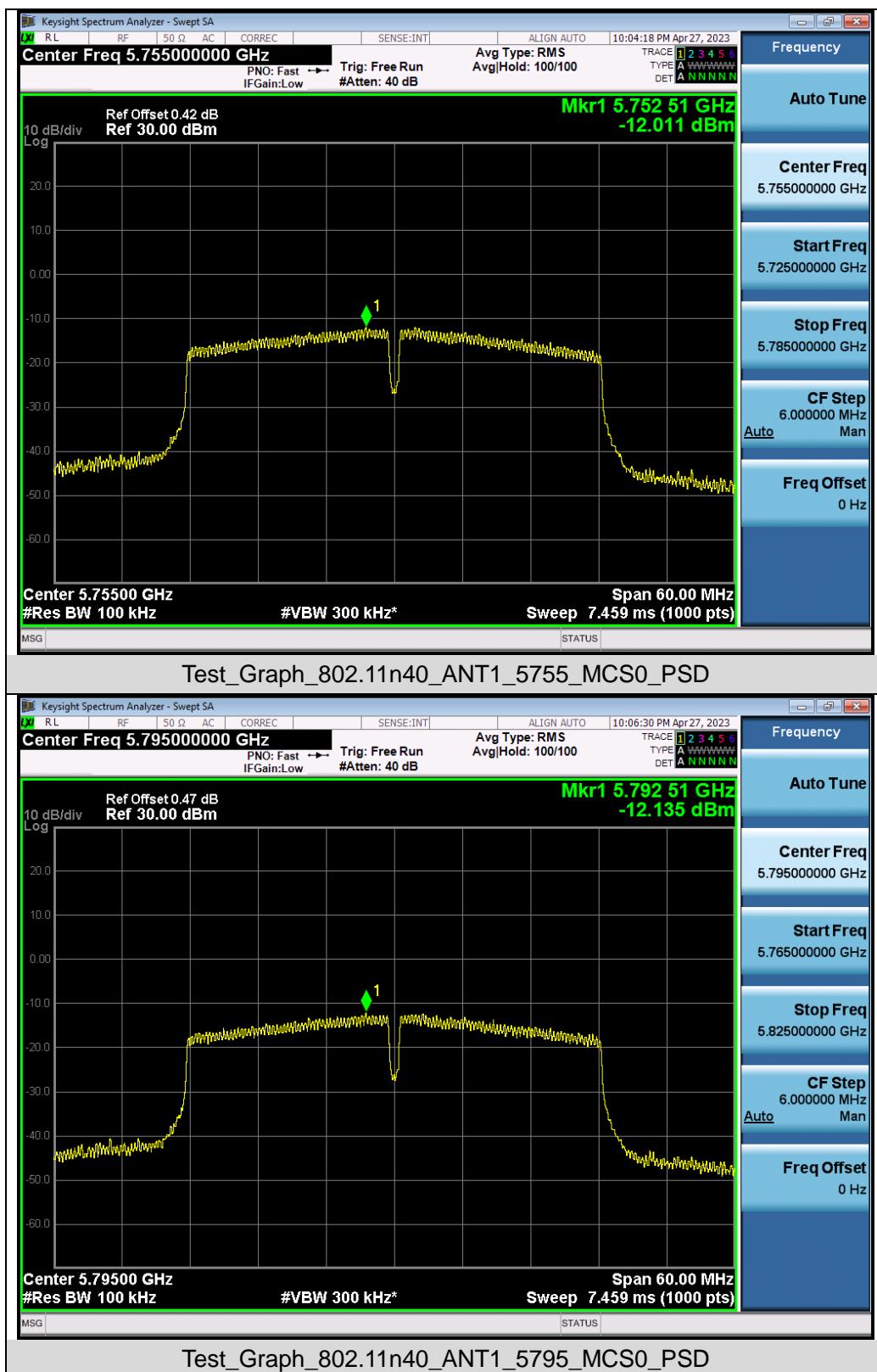


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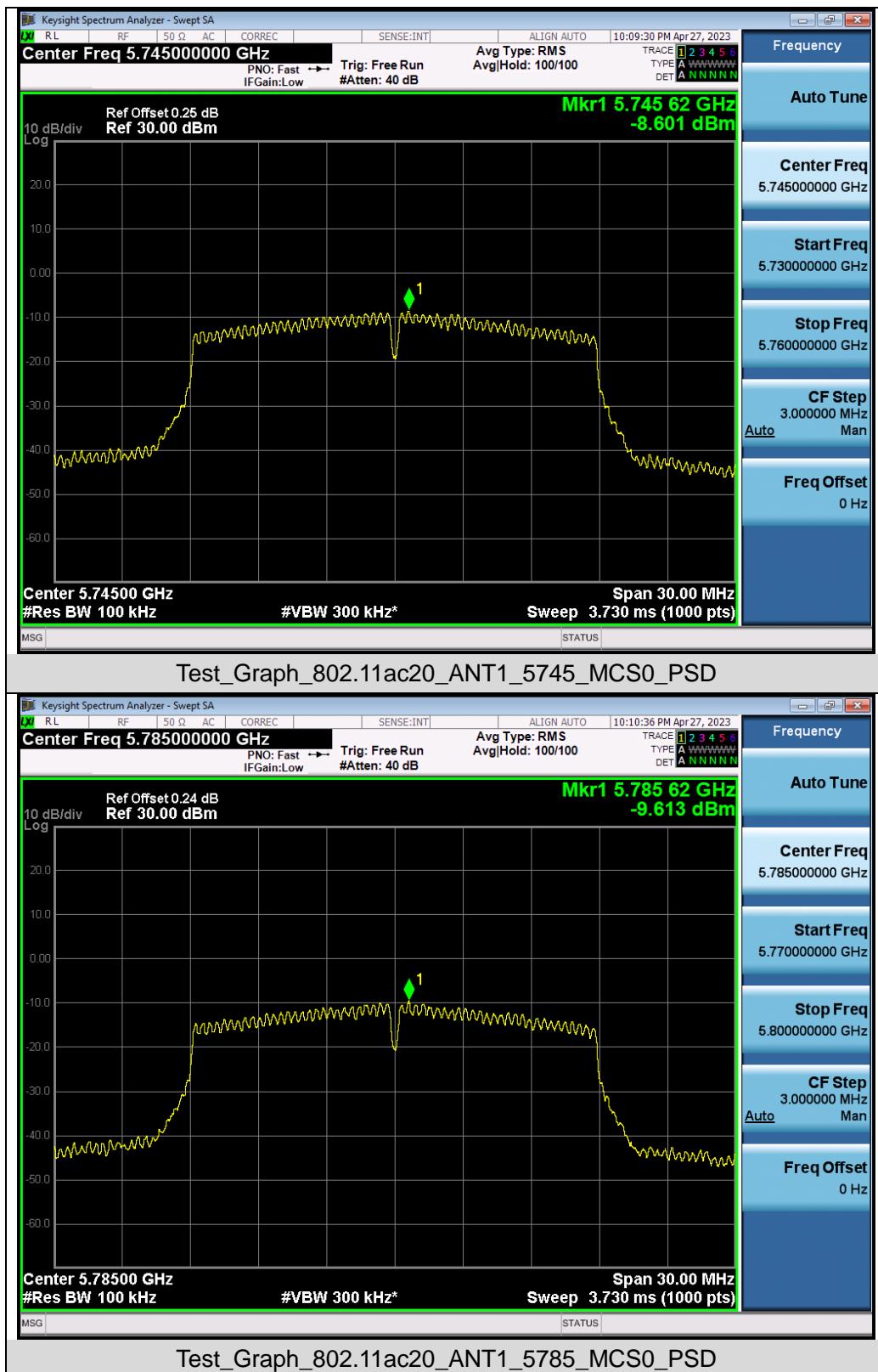


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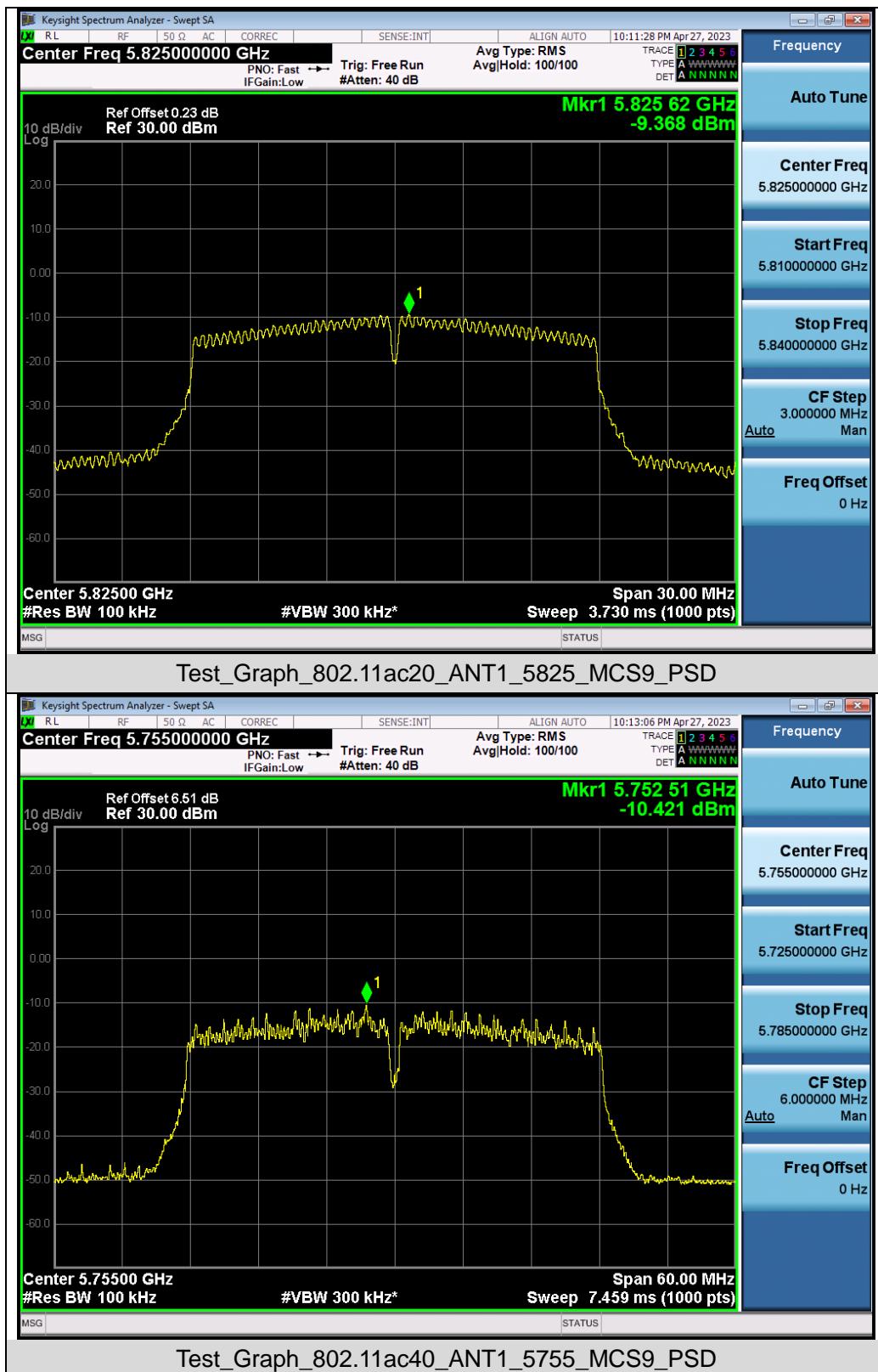


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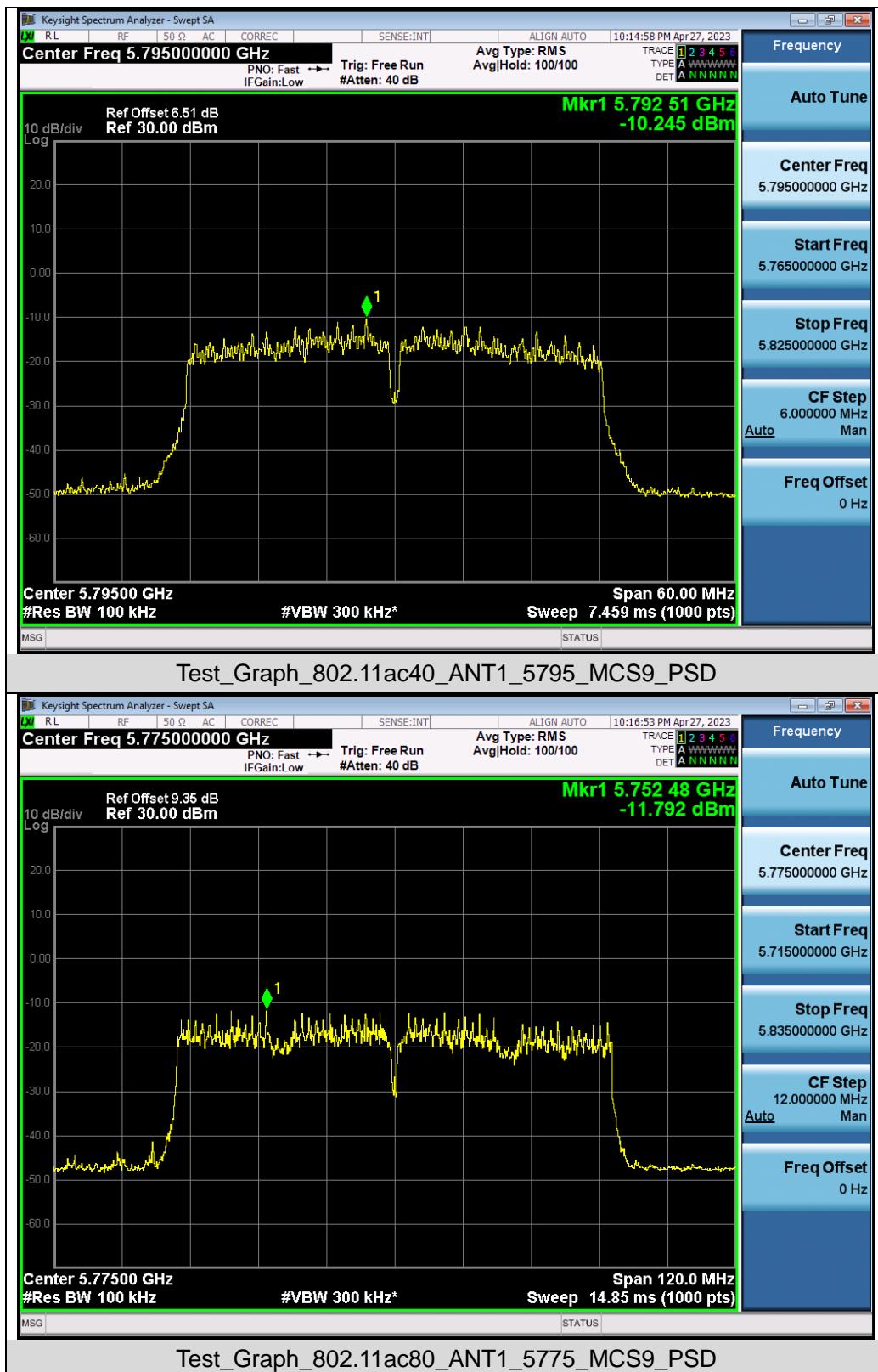


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10. CONDUCTED SPURIOUS EMISSION

10.1. 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 KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

10.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | |
|--|--------------------|-----------|
| Applicable Limits | Measurement Result | |
| | Test channel | Criteri a |
| -27dBm/MHz | 5150MHz-5250MHz | PASS |
| All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. | 5725MHz-5850MHz | PASS |

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.

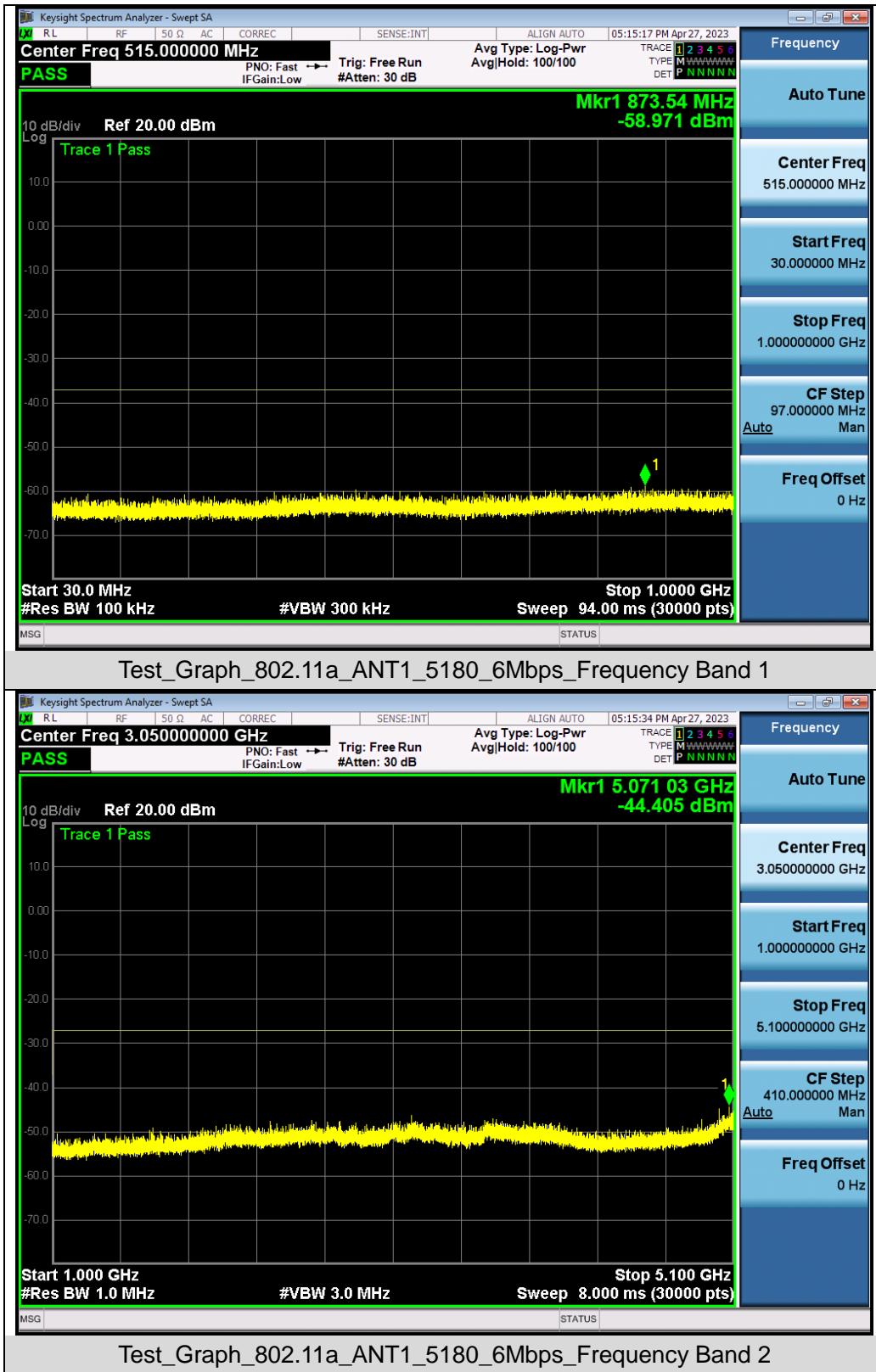
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Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band

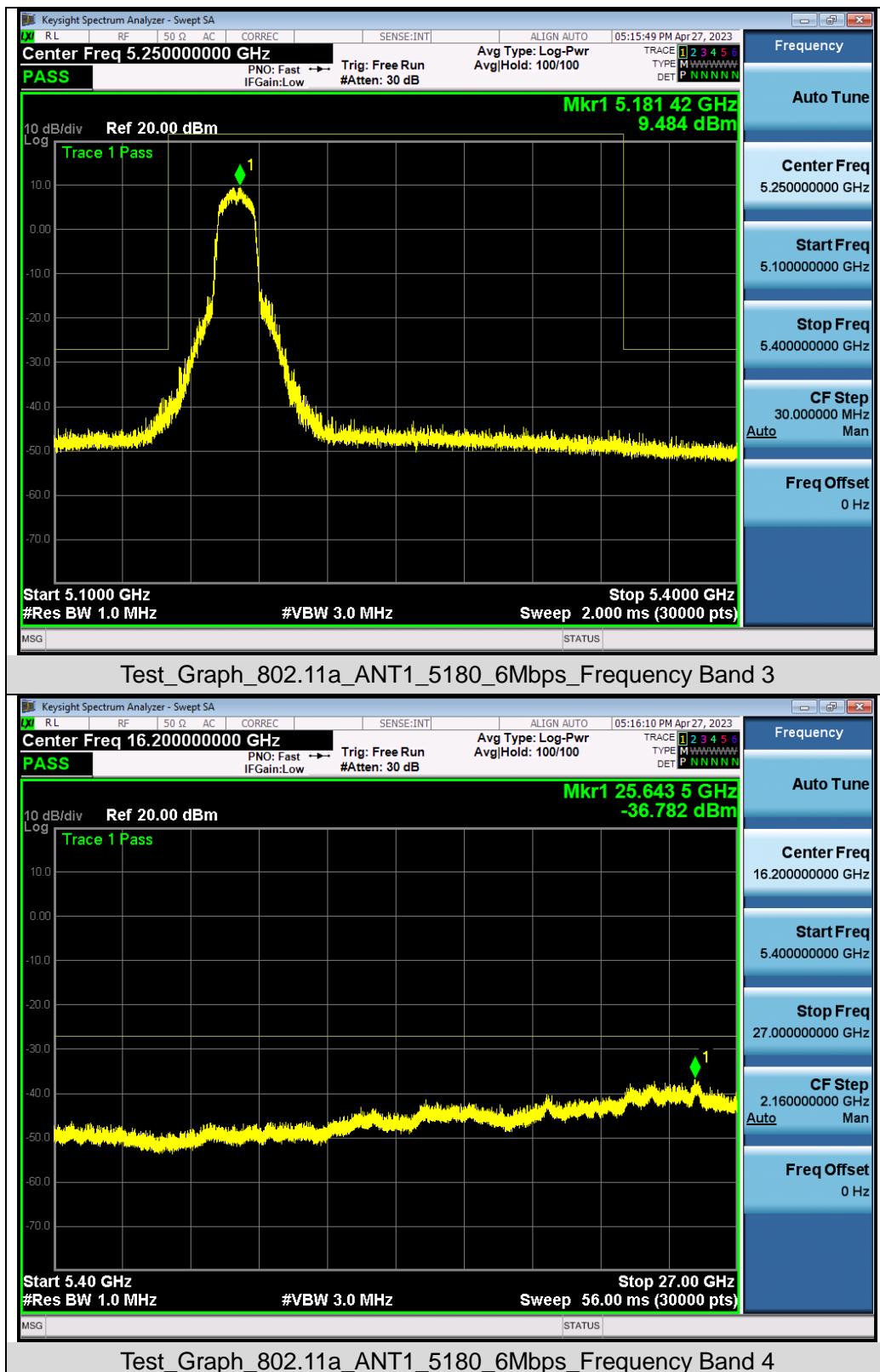


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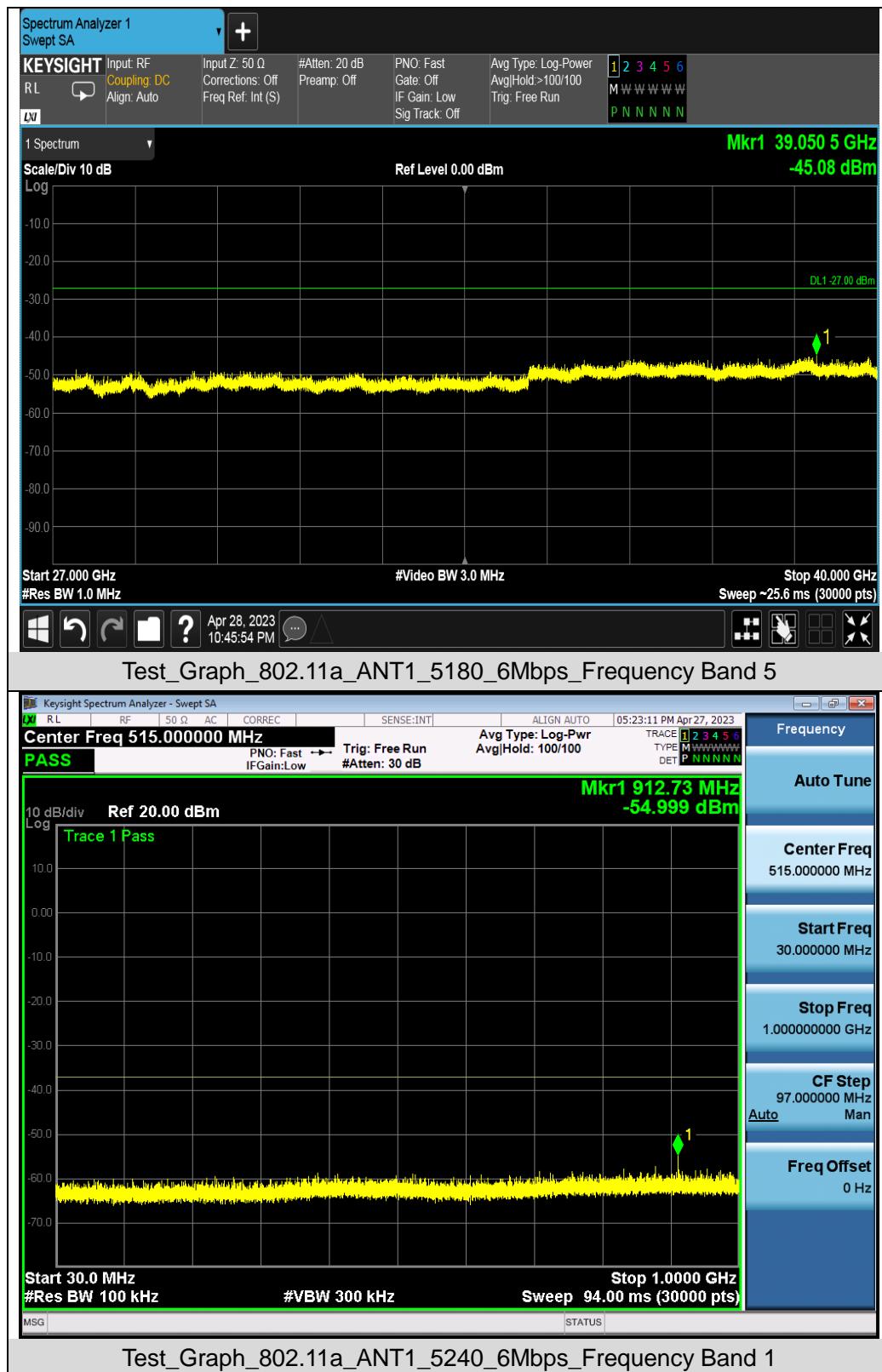


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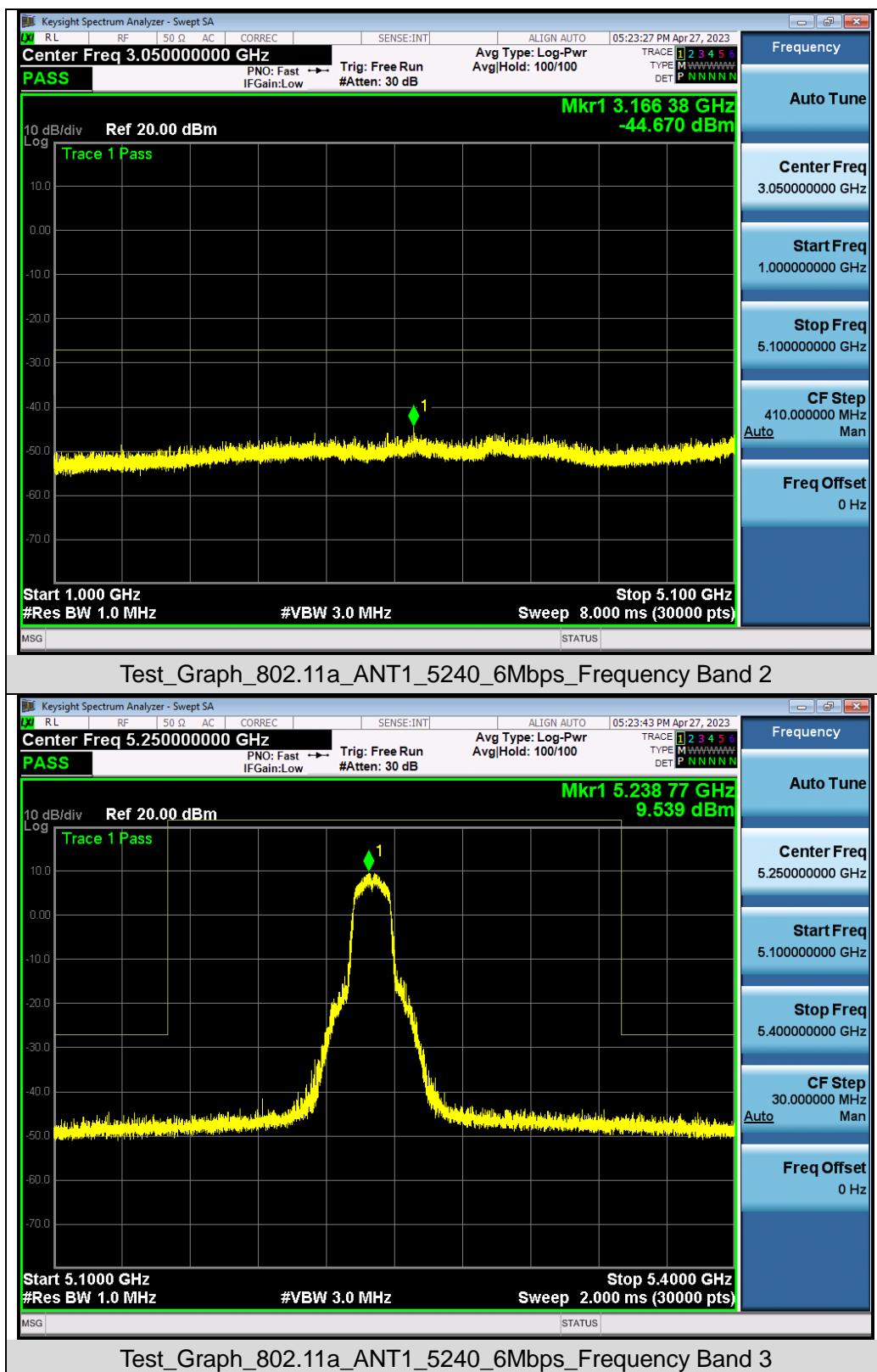


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