
FCC Test Report

Report No.: AGC10849210201FE06

FCC ID : 2ATXD-BS-02
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Smartphone
BRAND NAME : BlindShell
MODEL NAME : BS-02
APPLICANT : Matapo a.s.
DATE OF ISSUE : Aug. 19, 2021
STANDARD(S) : FCC Part 15.407
TEST PROCEDURE(S) : KDB 789033 D02 v02r01
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Aug. 19, 2021 | Valid | Initial Release |

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1. VERIFICATION OF CONFORMITY

| | |
|---------------------------------|--|
| Applicant | Matapo a.s. |
| Address | Branicka 26/43, Praha 4, 14700 Czech Republic |
| Manufacturer | Shenzhen Unicair Communication Technology Co., Ltd. |
| Address | 8-9/F, Block1, Wutong Island, Shunchang Rd., Xixiang, Bao'an District, Shenzhen China. |
| Factory | Shenzhen Unicair Communication Technology Co., Ltd. |
| Address | 8-9/F, Block1, Wutong Island, Shunchang Rd., Xixiang, Bao'an District, Shenzhen China. |
| Product Designation | Smartphone |
| Brand Name | BlindShell |
| Test Model | BS-02 |
| Date of test | Jul. 07, 2021~Aug. 10, 2021 |
| 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

Eddy Liu

Eddy Liu
(Project Engineer)

Aug. 10, 2021

Reviewed By

Calvin Liu

Calvin Liu
(Reviewer)

Aug. 19, 2021

Approved By

Forrest Lei

Forrest Lei
Authorized Officer

Aug. 19, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Smartphone”. 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

| | |
|----------------------------|--|
| Operation Frequency | 5150 MHz ~ 5250MHz; 5725 MHz ~ 5850MHz |
| Output Power | IEEE 802.11a20:14.91dBm; IEEE 802.11n(20):14.68dBm; IEEE802.11n(40):13.84dBm; IEEE 802.11ac(20):13.04dBm; IEEE 802.11ac(40):12.57dBm; IEEE 802.11ac(80):12.20dBm |
| Modulation | BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM, OFDM |
| Number of channels | 15 |
| Hardware Version | BS-02_Main_RevC |
| Software Version | BS-02_V04_20210623 |
| Antenna Designation | PIFA Antenna (Comply with requirements of the FCC part 15.203) |
| Antenna Gain | 2.46dBi |
| Power Supply | DC 3.85V by battery |

Note:

1. The EUT is designed as indoor access point operating without radar detection.
2. The device do not support TPC.

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2.2. TABLE OF CARRIER FREQUENCIES

| Frequency Band | Channel Number | Frequency | Frequency Band | Channel Number | Frequency |
|--------------------|----------------|-----------|--------------------|----------------|-----------|
| 5150 GHz ~ 5250GHz | 36 | 5180 MHz | 5725 GHz ~ 5850GHz | 149 | 5745 MHz |
| | 38 | 5190 MHz | | 151 | 5755 MHz |
| | 40 | 5200 MHz | | 153 | 5765 MHz |
| | 42 | 5210 MHz | | 155 | 5775MHz |
| | 44 | 5220 MHz | | 157 | 5785 MHz |
| | 46 | 5230 MHz | | 159 | 5795 MHz |
| | 48 | 5240 MHz | | 161 | 5805 MHz |
| | | | | 165 | 5825MHz |

Note: For 20MHz bandwidth system use Channel 36,40,44,48,149,153,157,161,165; For 40MHz bandwidth system use Channel 38,46,151,159. For 80MHz bandwidth system use Channel 42,155.

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

This submittal(s) (test report) is intended for **FCC ID: 2ATXD-BS-02** 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 expanded 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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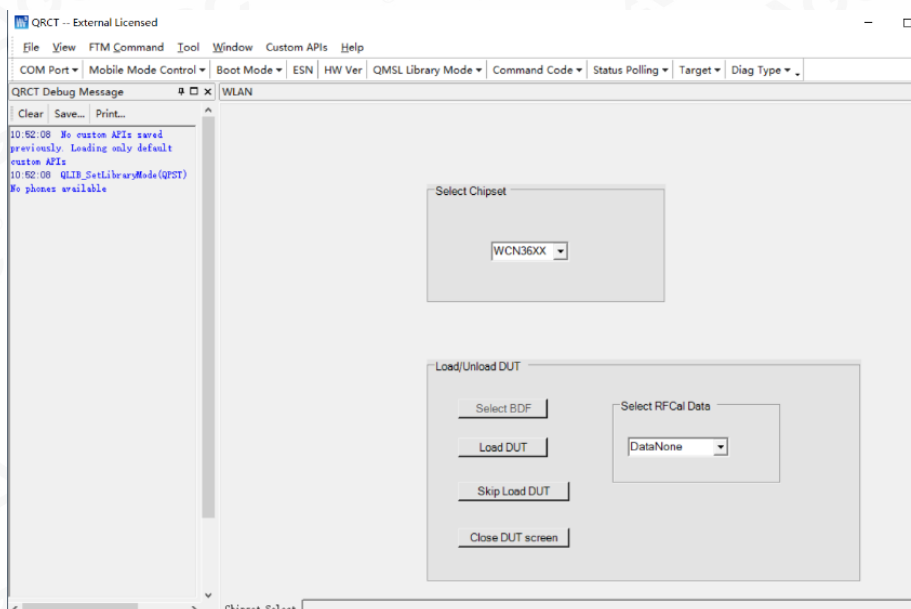
4. DESCRIPTION OF TEST MODES

| 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



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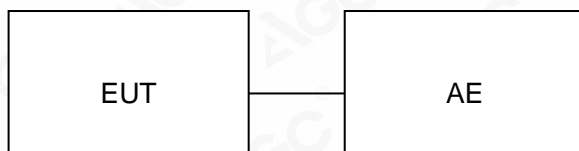
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|------------|-----------|---|--------|
| 1 | Smartphone | BS-02 | 2ATXD-BS-02 | EUT |
| 2 | Adapter | N/A | Input: AC 100~240V 50/60Hz,0.4A Output: DC 5.0V 2A | AE |
| 3 | Charger | 634071PLN | Input: DC 5V 2A | AE |
| 4 | Earphone | N/A | N/A | AE |
| 5 | USB Cable | N/A | 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 | May 11, 2021 | May 10, 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 | Apr. 14, 2021 | Apr. 13, 2022 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 07, 2020 | Dec. 06, 2021 |
| Power sensor | Aglient | U2021XA | MY54110007 | Jun. 08, 2020 | Jun. 07, 2021 |
| 5GHz Fliter | EM Electronics | 5150-5880MHz | N/A | Mar. 23, 2020 | Mar. 22, 2022 |
| Attenuator | ZHINAN | E-002 | N/A | Sep. 03, 2020 | Sep. 02, 2022 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep.21, 2019 | Sep. 20, 2021 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | May 22, 2020 | May 21, 2022 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | Apr. 23, 2021 | Apr. 22, 2023 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 08, 2021 | Jan. 07, 2023 |
| Test software | Tonscend | JS32-RE (Ver.2.5) | N/A | N/A | N/A |

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

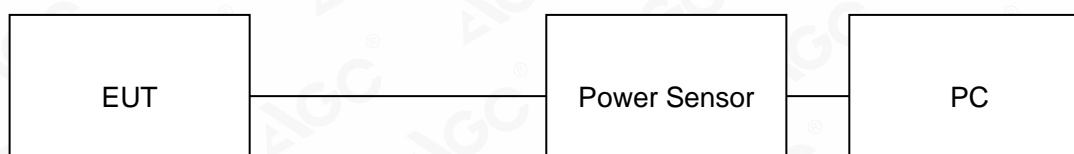
For average power test:

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 | 14.69 | 24 | Pass |
| | 5200 | 14.91 | 24 | Pass |
| | 5240 | 14.67 | 24 | Pass |
| 802.11n20 | 5180 | 14.68 | 24 | Pass |
| | 5200 | 13.95 | 24 | Pass |
| | 5240 | 13.66 | 24 | Pass |
| 802.11n40 | 5190 | 12.19 | 24 | Pass |
| | 5230 | 12.57 | 24 | Pass |
| 802.11ac20 | 5180 | 12.45 | 24 | Pass |
| | 5200 | 12.67 | 24 | Pass |
| | 5240 | 12.36 | 24 | Pass |
| 802.11ac40 | 5190 | 12.43 | 24 | Pass |
| | 5230 | 12.28 | 24 | Pass |
| 802.11ac80 | 5210 | 12.20 | 24 | 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 | 13.98 | 30 | Pass |
| | 5785 | 14.43 | 30 | Pass |
| | 5825 | 14.29 | 30 | Pass |
| 802.11n20 | 5745 | 14.07 | 30 | Pass |
| | 5785 | 13.59 | 30 | Pass |
| | 5825 | 13.35 | 30 | Pass |
| 802.11n40 | 5755 | 13.84 | 30 | Pass |
| | 5795 | 13.10 | 30 | Pass |
| 802.11ac20 | 5745 | 12.68 | 30 | Pass |
| | 5785 | 12.27 | 30 | Pass |
| | 5825 | 13.04 | 30 | Pass |
| 802.11ac40 | 5755 | 12.57 | 30 | Pass |
| | 5795 | 12.18 | 30 | Pass |
| 802.11ac80 | 5775 | 11.43 | 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:

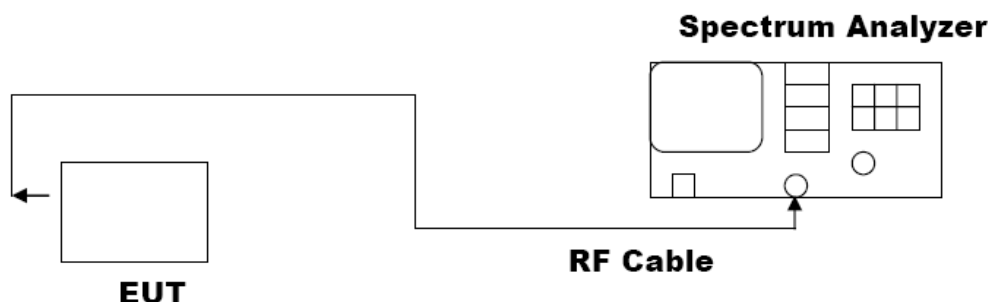
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall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

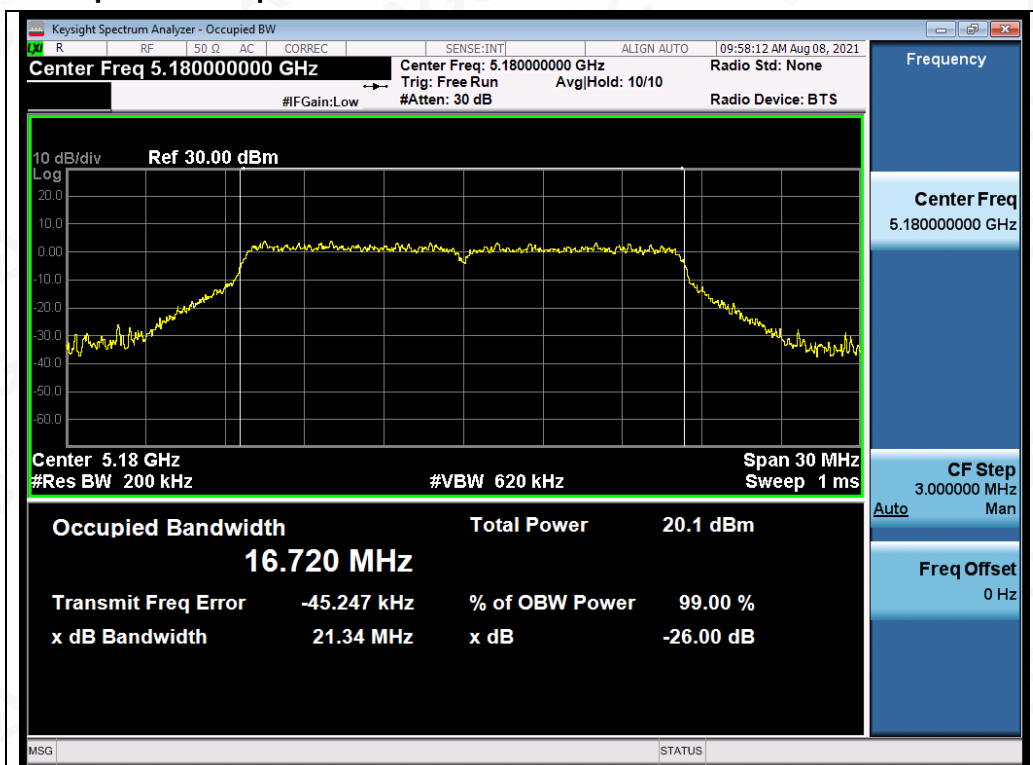
| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz | | | | | |
|--|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a | 5180 | 16.720 | 21.337 | N/A | Pass |
| | 5200 | 16.565 | 21.186 | N/A | Pass |
| | 5240 | 16.585 | 21.183 | N/A | Pass |
| 802.11n20 | 5180 | 16.614 | 20.701 | N/A | Pass |
| | 5200 | 16.580 | 21.035 | N/A | Pass |
| | 5240 | 16.563 | 20.815 | N/A | Pass |
| 802.11n40 | 5190 | 36.054 | 42.751 | N/A | Pass |
| | 5230 | 36.107 | 43.042 | N/A | Pass |
| 802.11ac20 | 5180 | 17.797 | 21.623 | N/A | Pass |
| | 5200 | 17.795 | 21.375 | N/A | Pass |
| | 5240 | 17.811 | 21.503 | N/A | Pass |
| 802.11ac40 | 5190 | 36.092 | 42.173 | N/A | Pass |
| | 5230 | 36.146 | 42.063 | N/A | Pass |
| 802.11ac80 | 5210 | 74.680 | 81.677 | 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 | 16.684 | 16.406 | 0.5 | Pass |
| | 5785 | 16.706 | 16.409 | 0.5 | Pass |
| | 5825 | 16.711 | 16.386 | 0.5 | Pass |
| 802.11n20 | 5745 | 17.787 | 17.617 | 0.5 | Pass |
| | 5785 | 17.803 | 17.633 | 0.5 | Pass |
| | 5825 | 17.800 | 17.610 | 0.5 | Pass |
| 802.11n40 | 5755 | 36.047 | 35.447 | 0.5 | Pass |
| | 5795 | 36.029 | 35.339 | 0.5 | Pass |
| 802.11ac20 | 5745 | 17.797 | 17.621 | 0.5 | Pass |
| | 5785 | 17.805 | 17.596 | 0.5 | Pass |
| | 5825 | 17.794 | 17.593 | 0.5 | Pass |
| 802.11ac40 | 5755 | 36.075 | 35.180 | 0.5 | Pass |
| | 5795 | 36.088 | 35.449 | 0.5 | Pass |
| 802.11ac80 | 5775 | 74.353 | 72.489 | 0.5 | Pass |

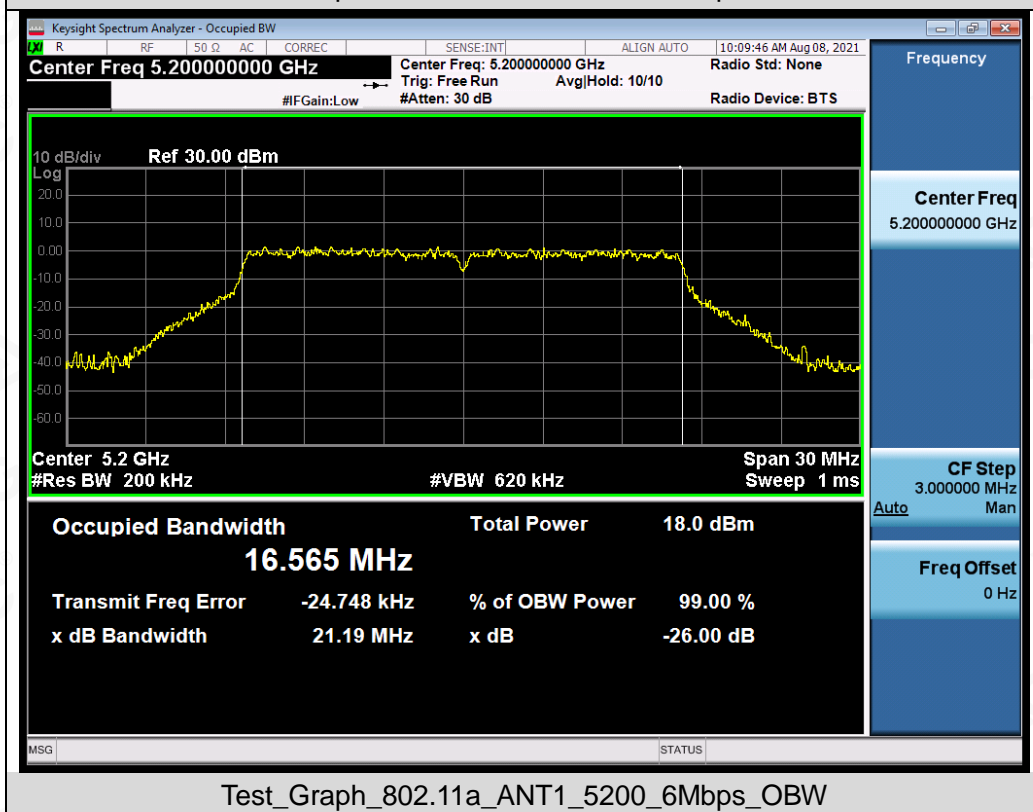
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW

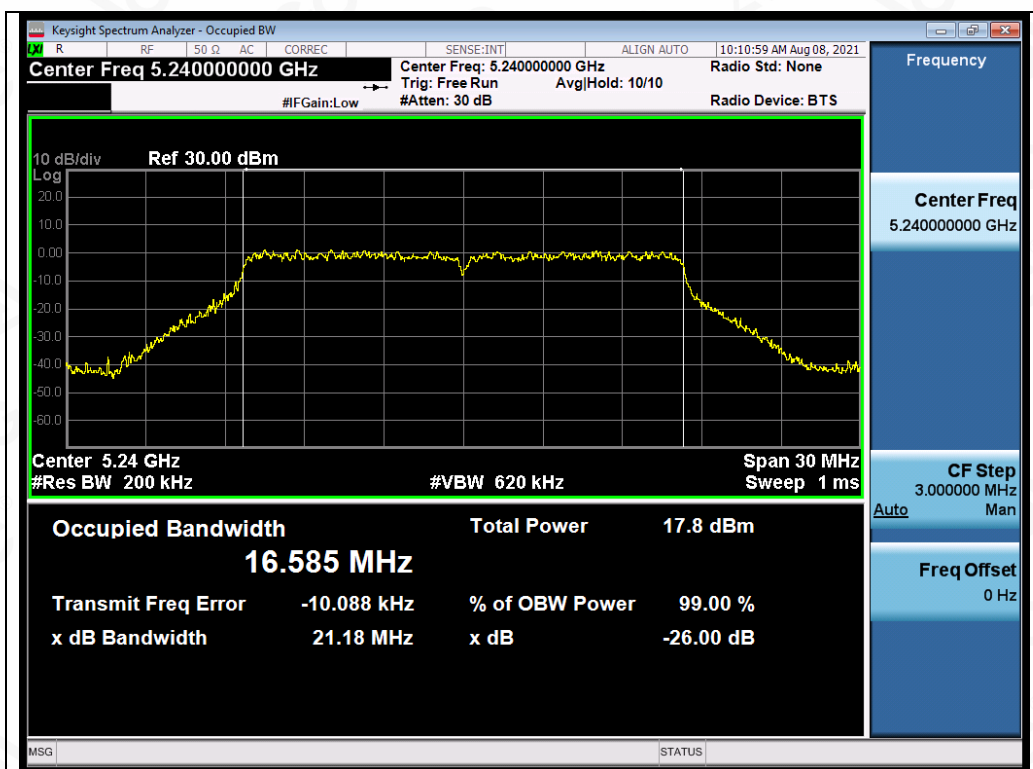


Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

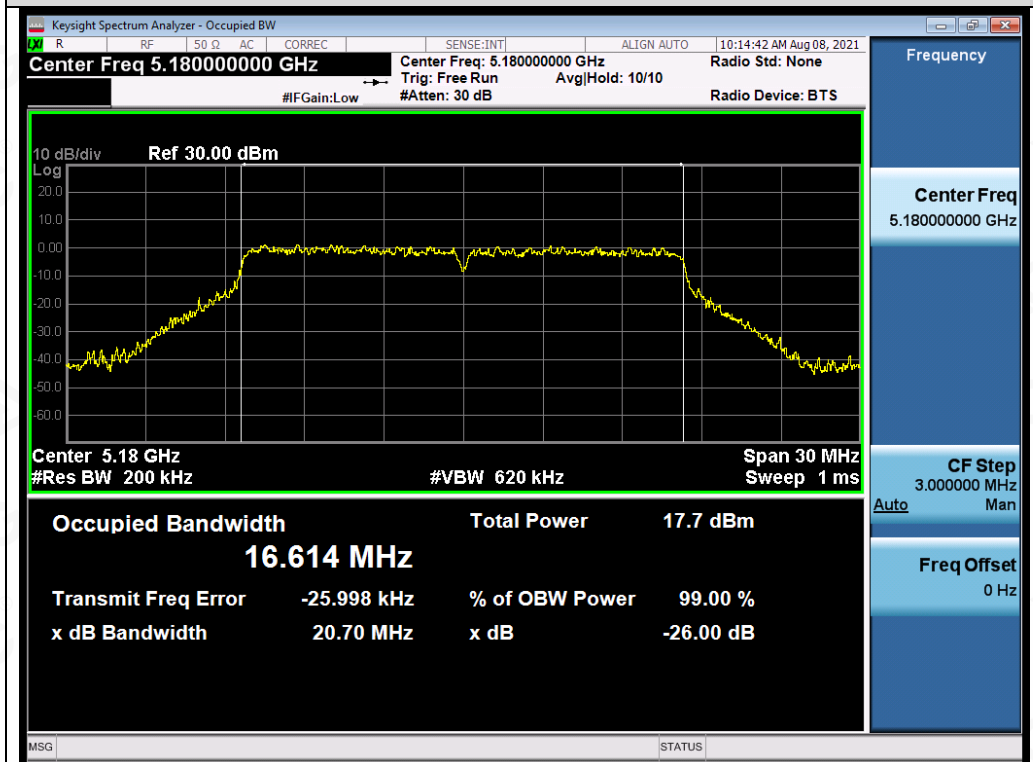
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Test_Graph_802.11a_ANT1_5240_6Mbps_OBW

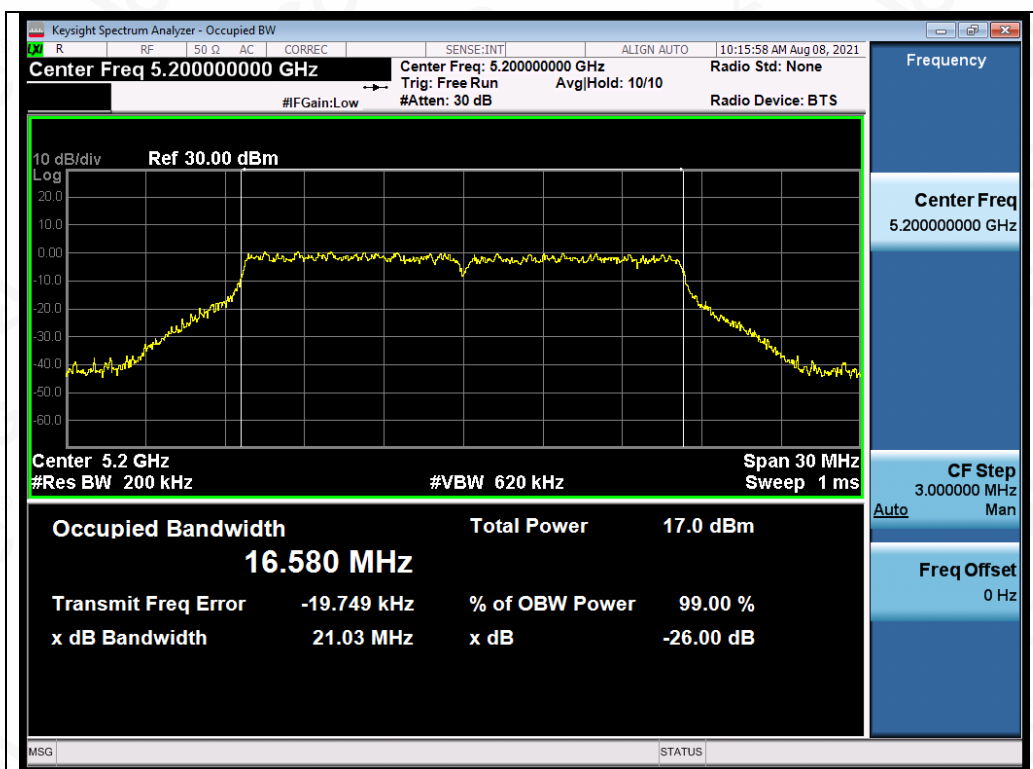


Test_Graph_802.11n20_ANT1_5180_MCS0_OBW

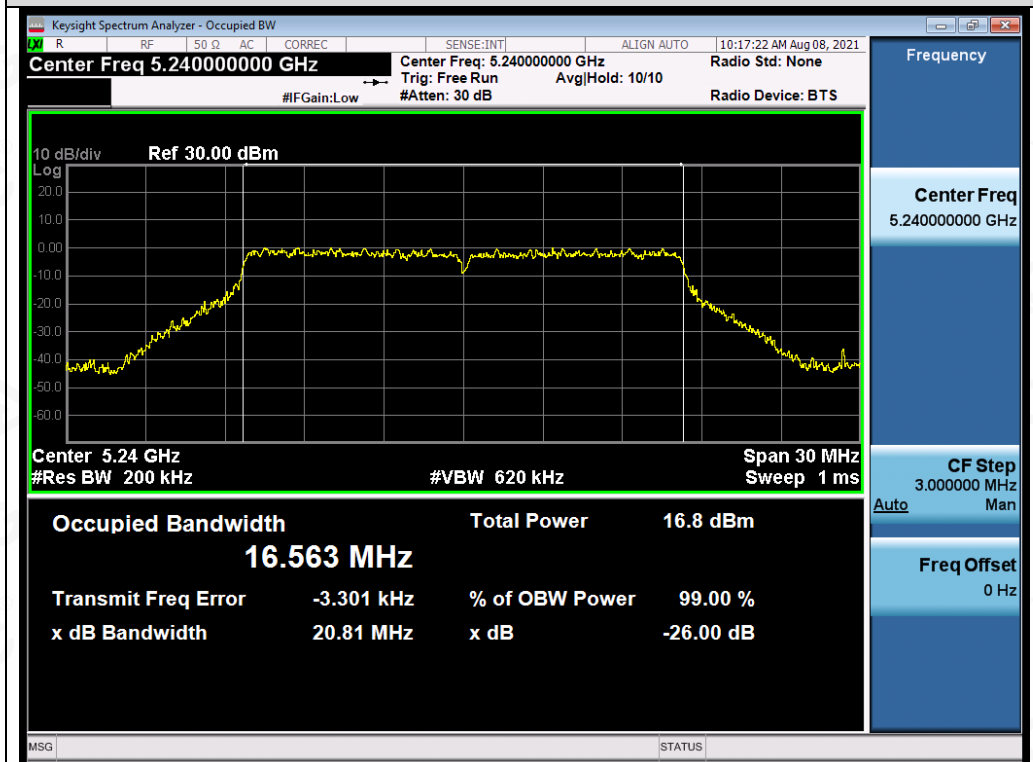
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Test_Graph_802.11n20_ANT1_5200_MCS0_OBW

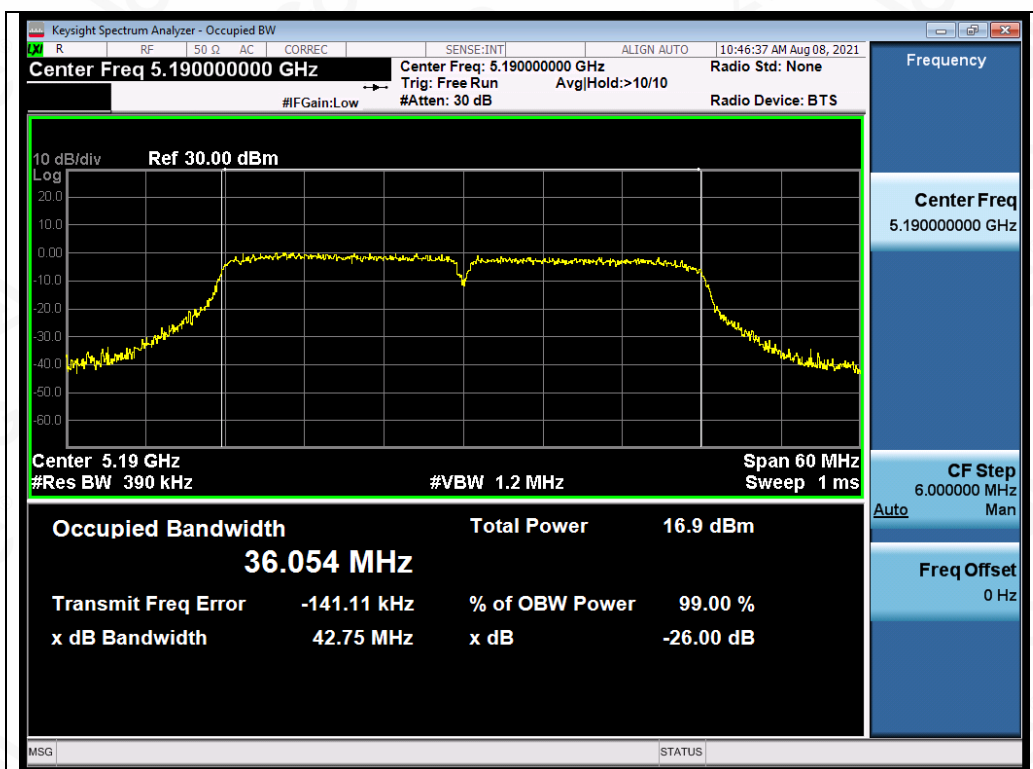


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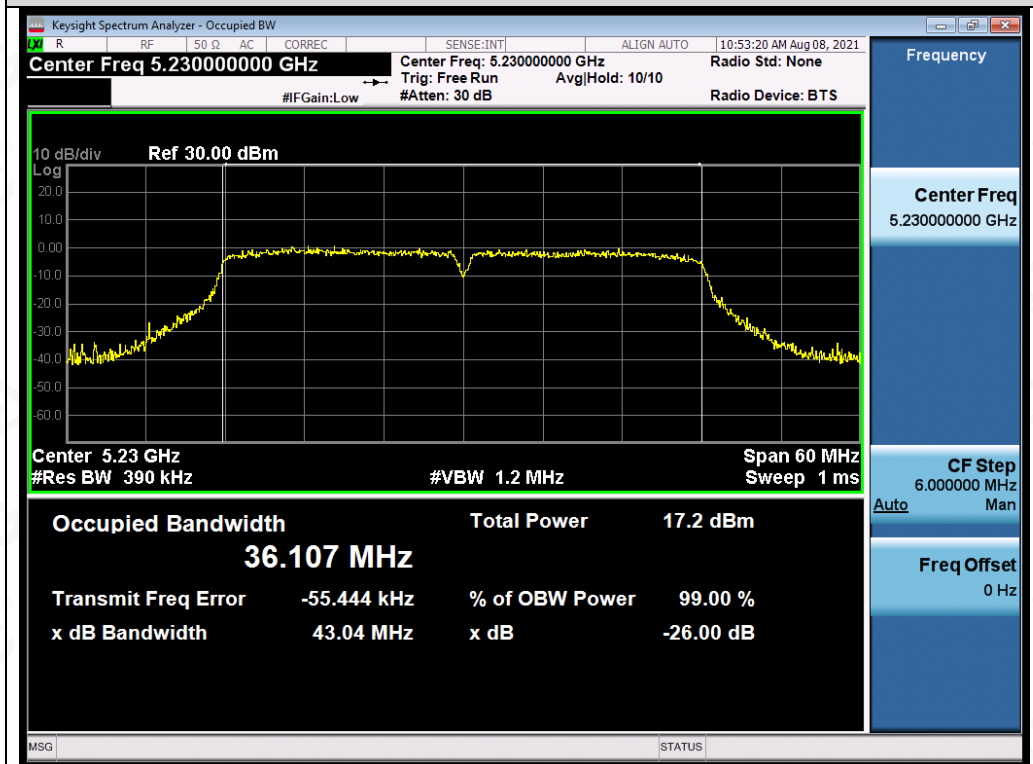
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Test_Graph_802.11n40_ANT1_5190_MCS0_OBW

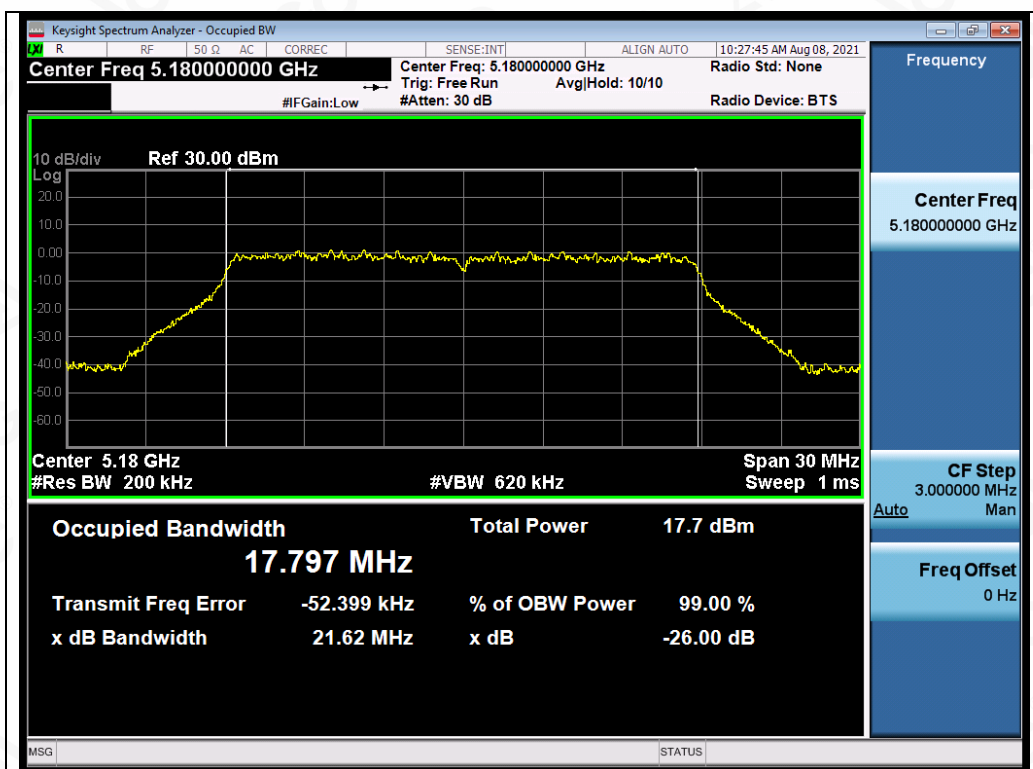


Test_Graph_802.11n40_ANT1_5230_MCS0_OBW

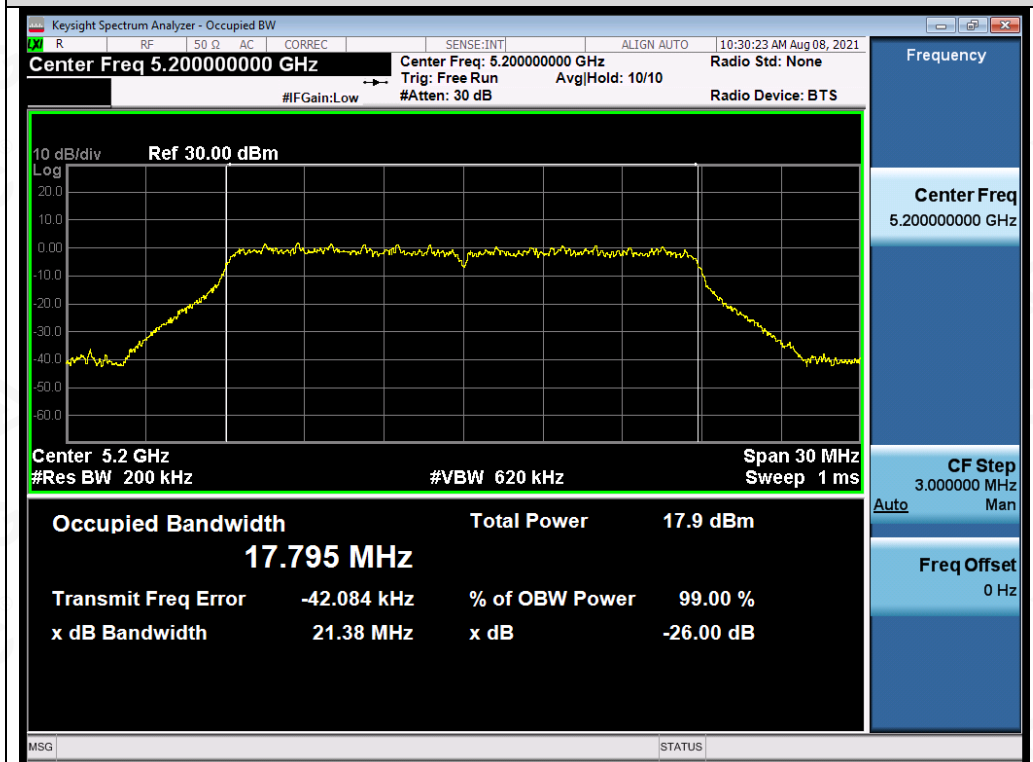
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Test_Graph_802.11ac20_ANT1_5180_MCS0_OBW

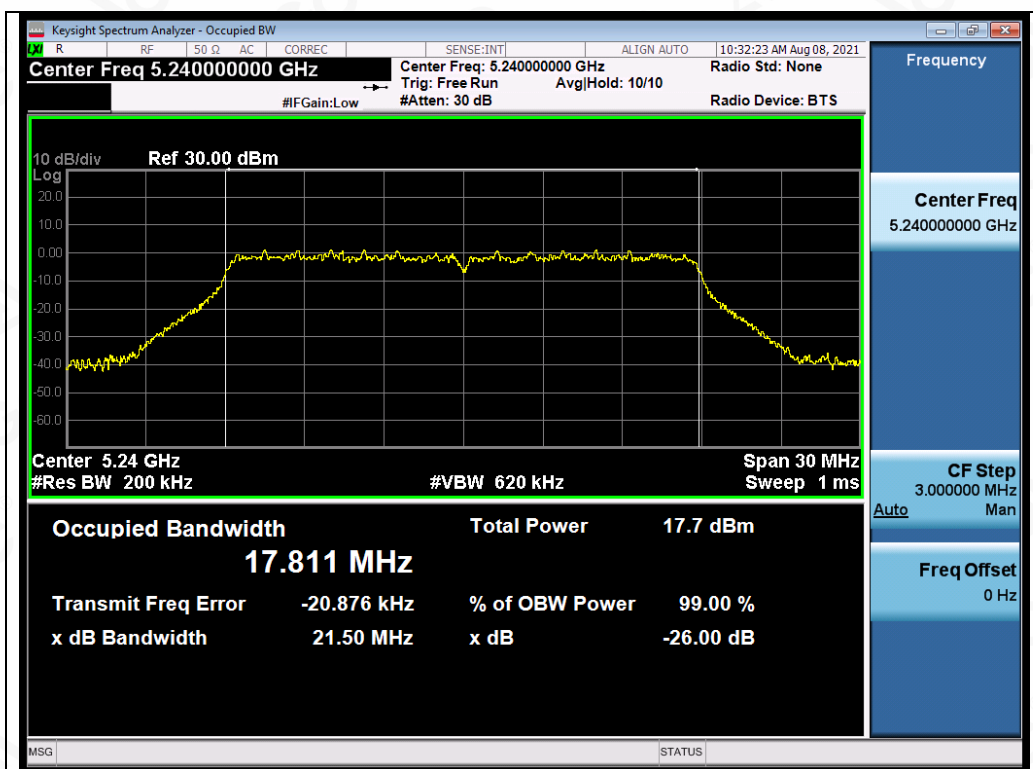


Test_Graph_802.11ac20_ANT1_5200_MCS0_OBW

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Test_Graph_802.11ac20_ANT1_5240_MCS9_OBW

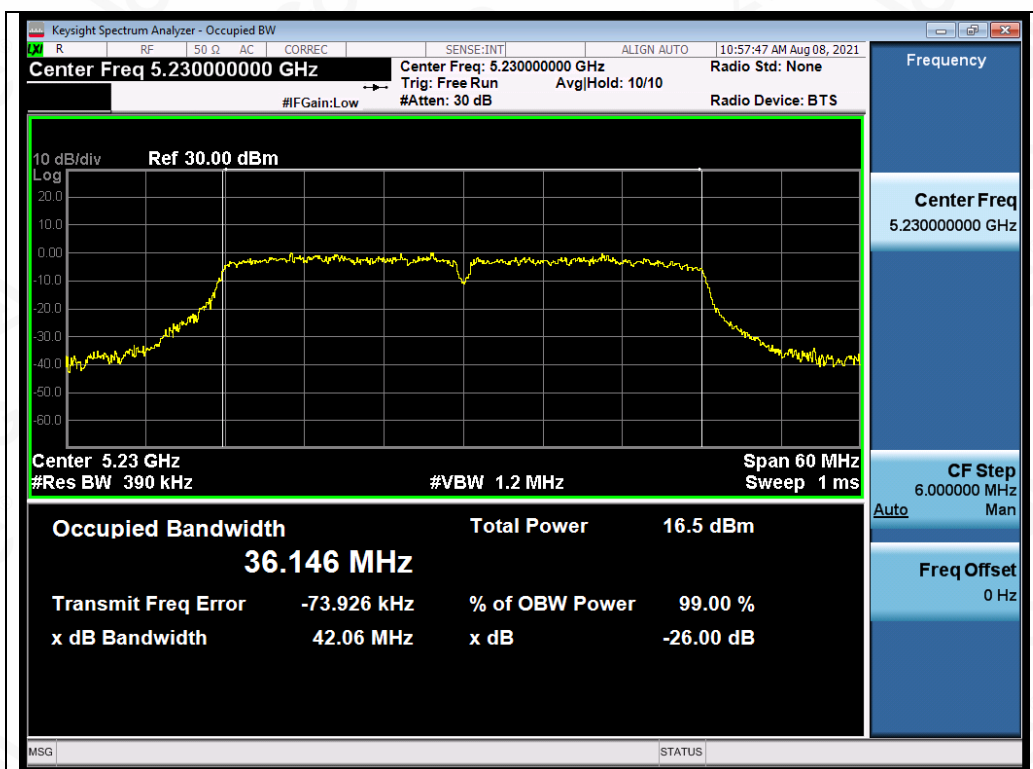


Test_Graph_802.11ac40_ANT1_5190_MCS9_OBW

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Test_Graph_802.11ac40_ANT1_5230_MCS9_OBW



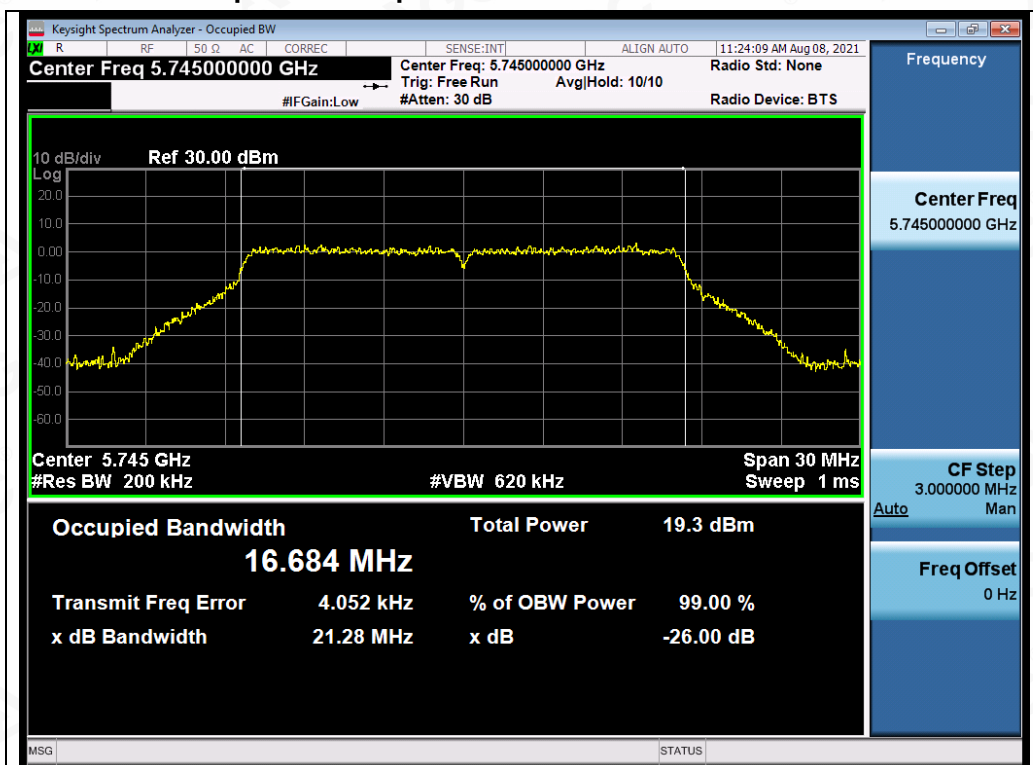
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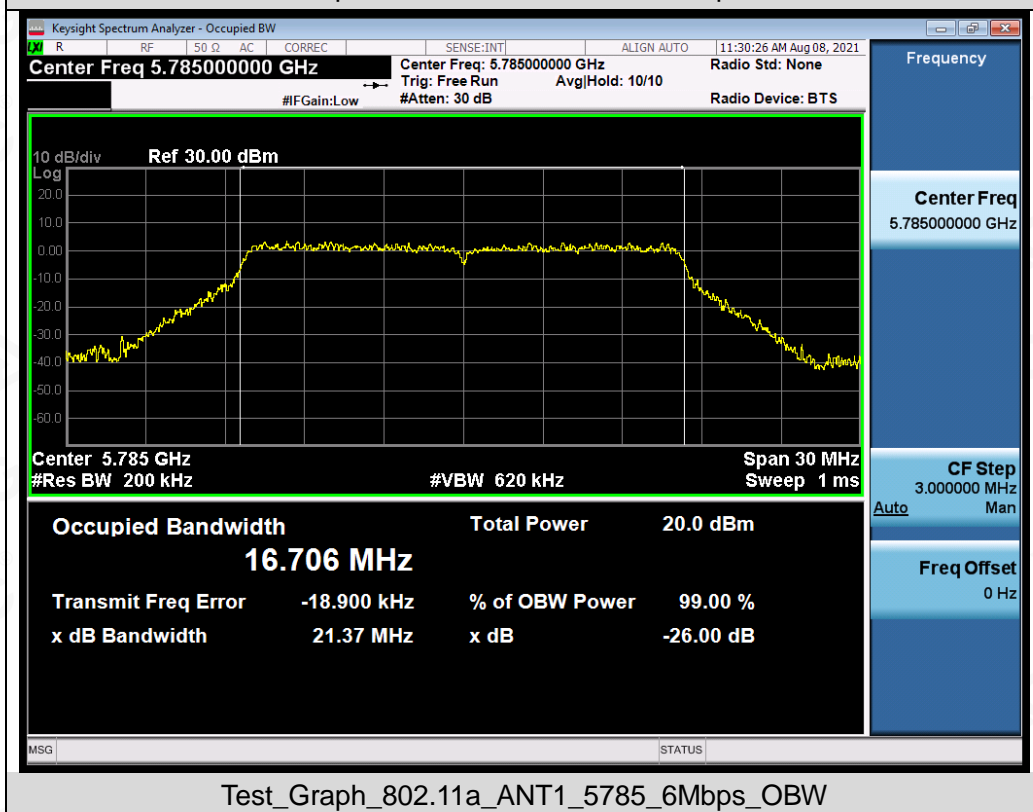
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW

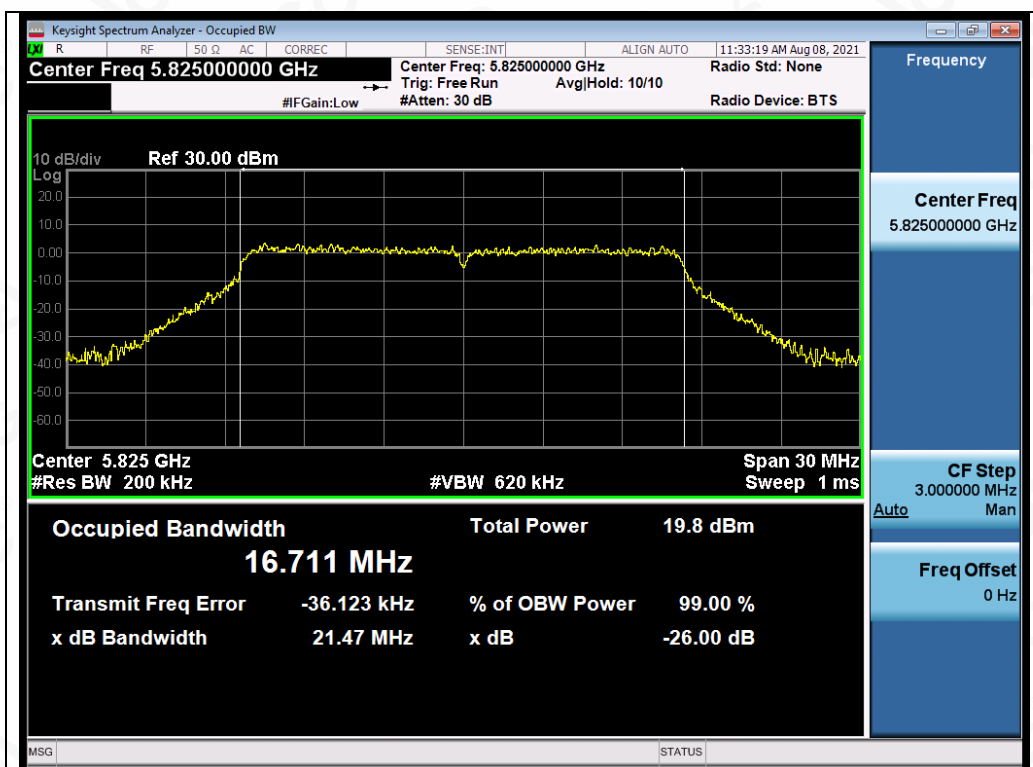


Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

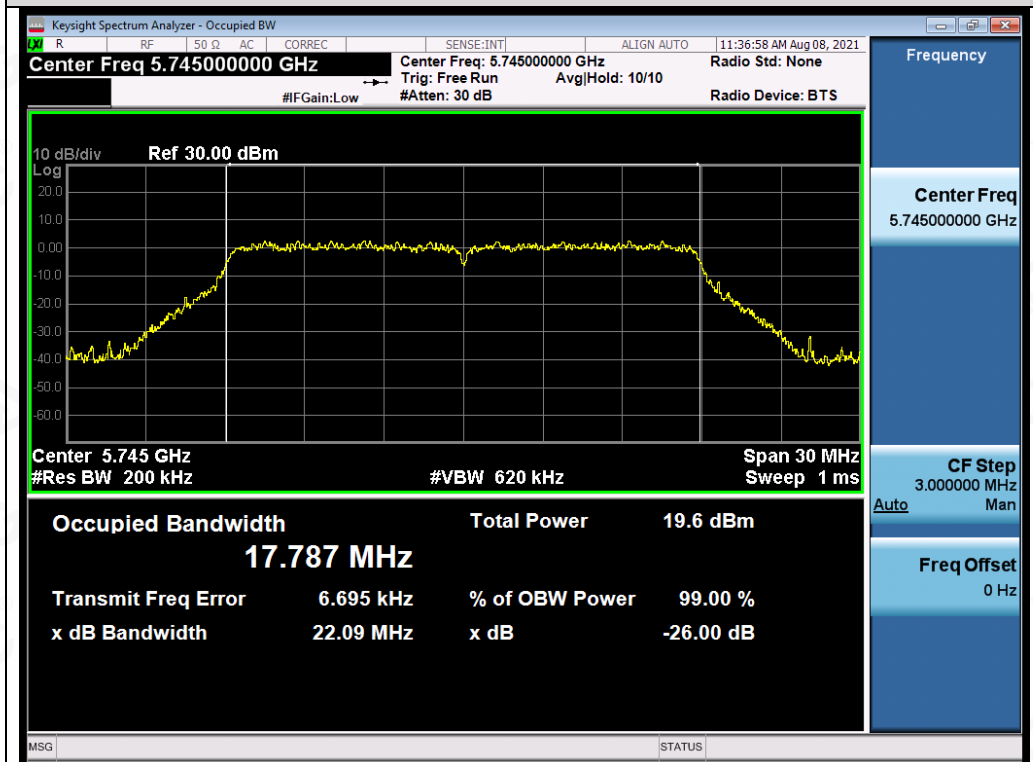
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Test_Graph_802.11a_ANT1_5825_6Mbps_OBW

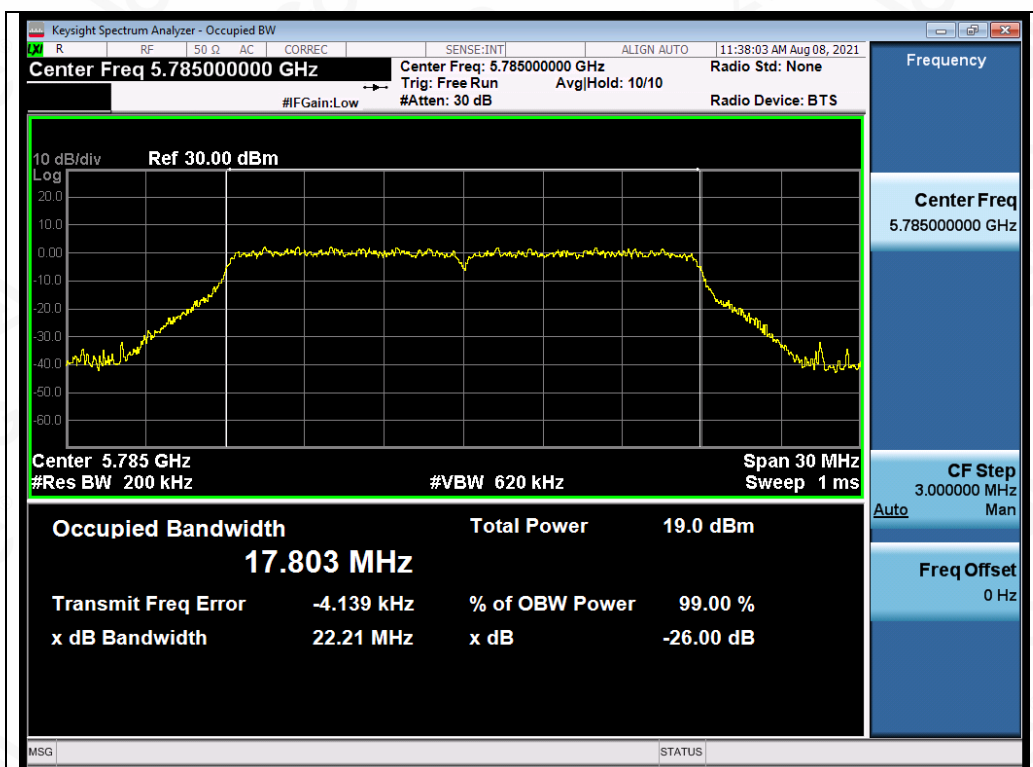


Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

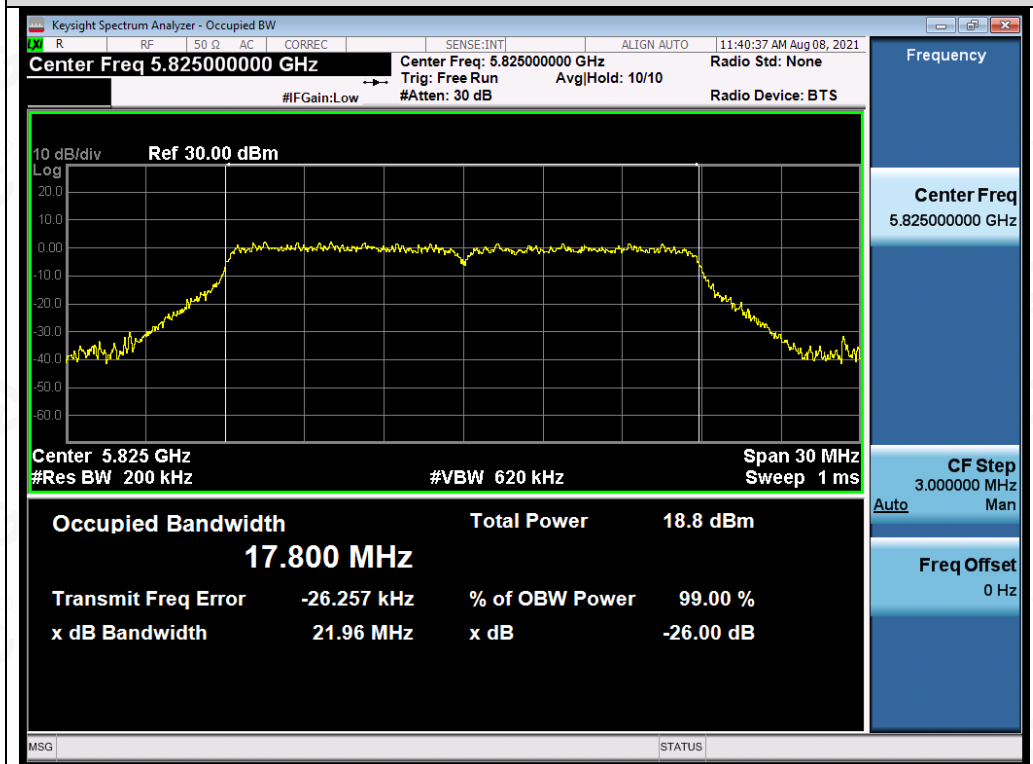
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Test_Graph_802.11n20_ANT1_5785_MCS0_OBW



Test_Graph_802.11n20_ANT1_5825_MCS0_OBW

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Test_Graph_802.11n40_ANT1_5755_MCS0_OBW

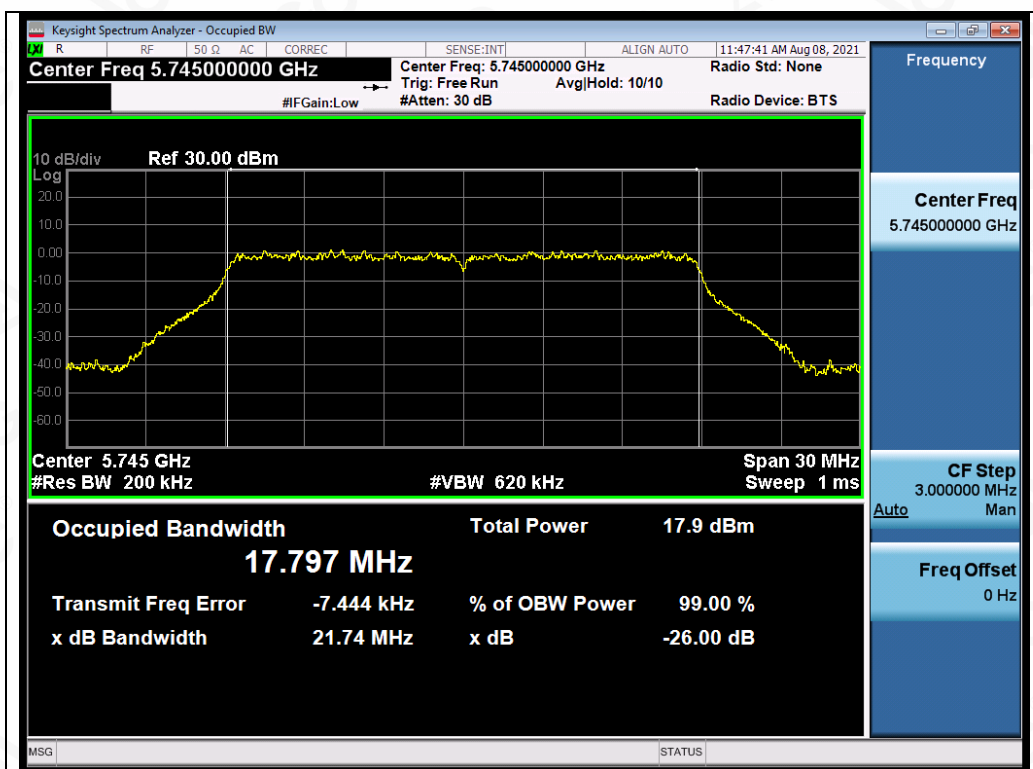


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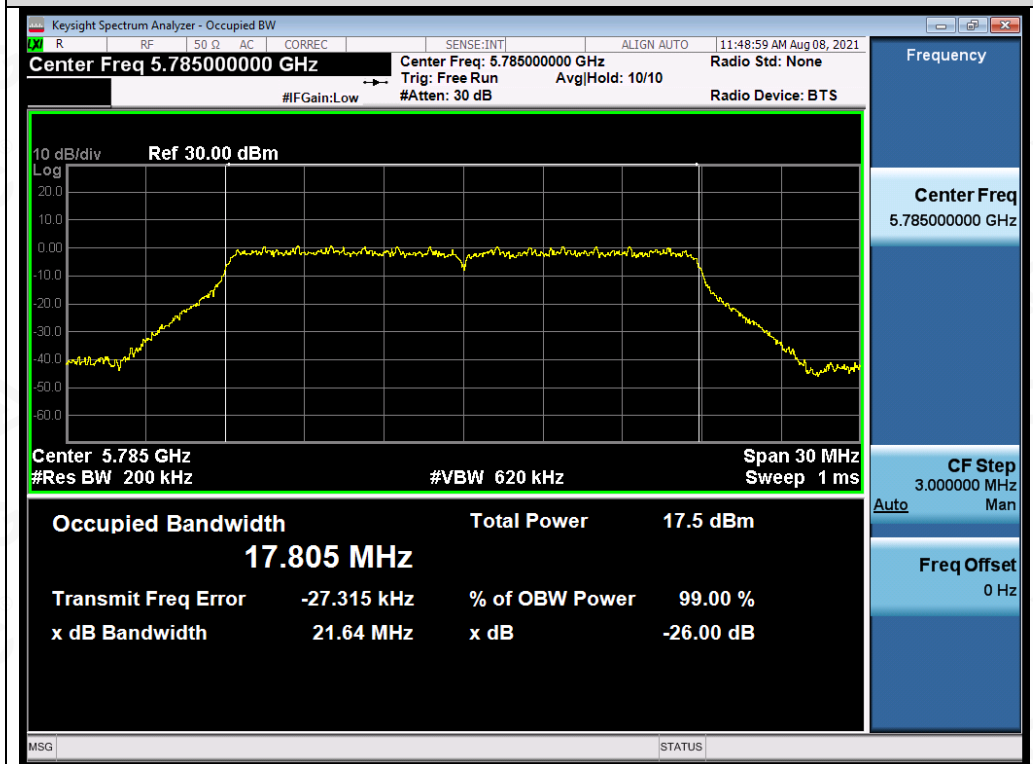
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Test_Graph_802.11ac20_ANT1_5745_MCS0_OBW

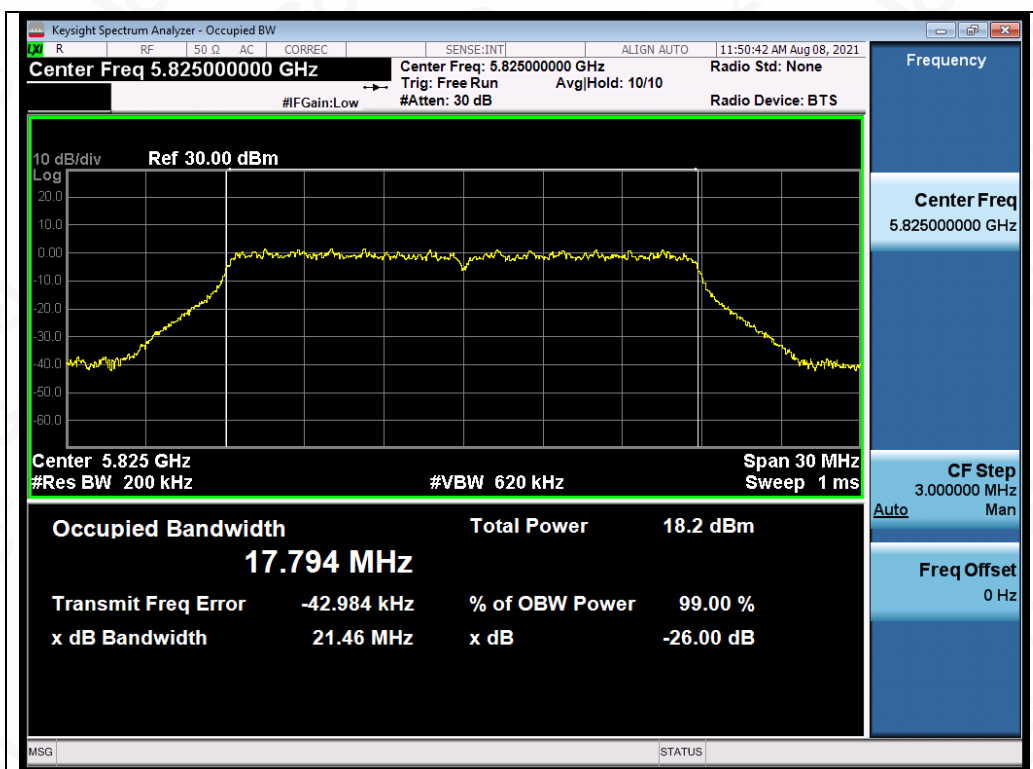


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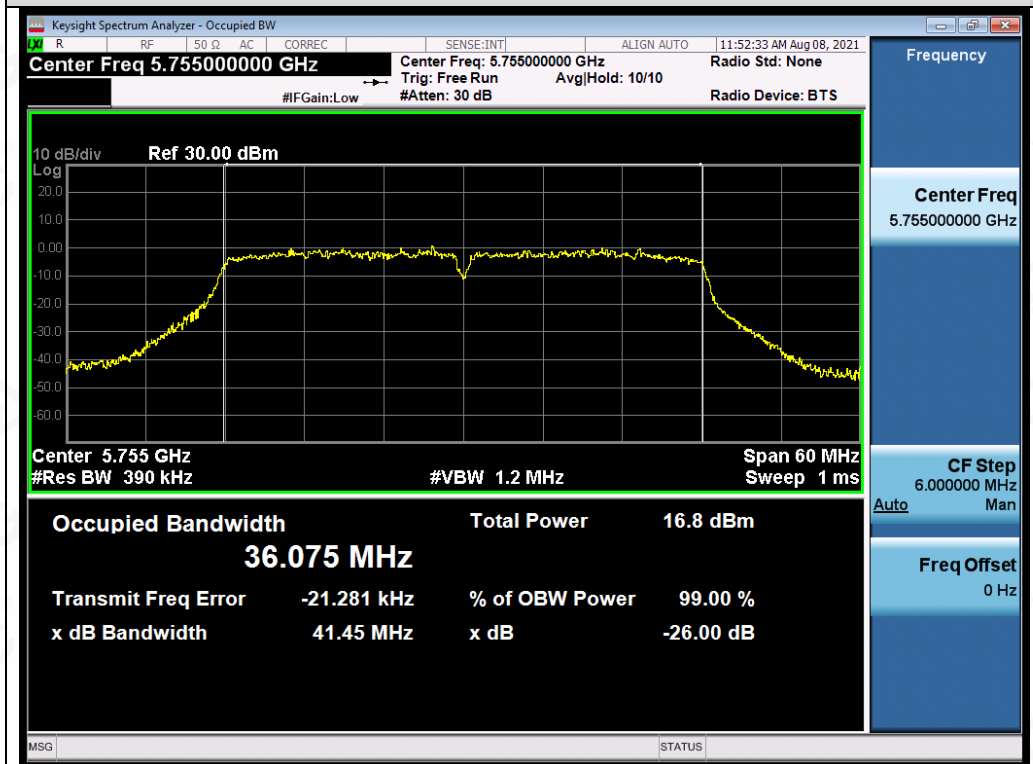
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Test_Graph_802.11ac20_ANT1_5825_MCS9_OBW

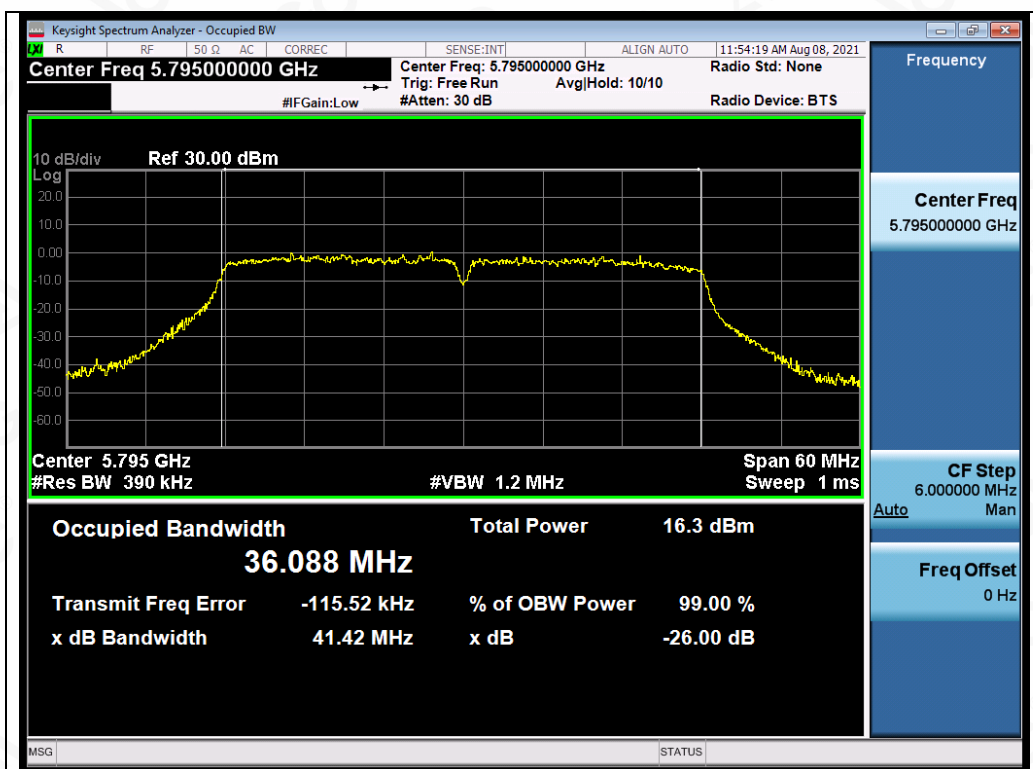


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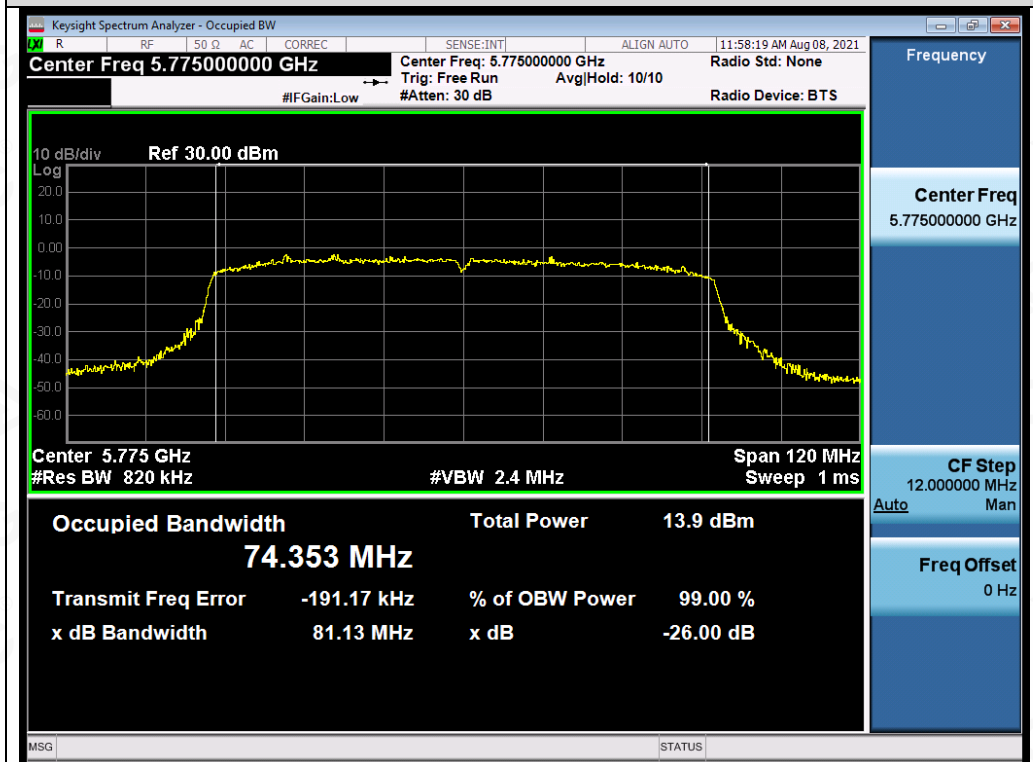
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Test_Graph_802.11ac40_ANT1_5795_MCS9_OBW



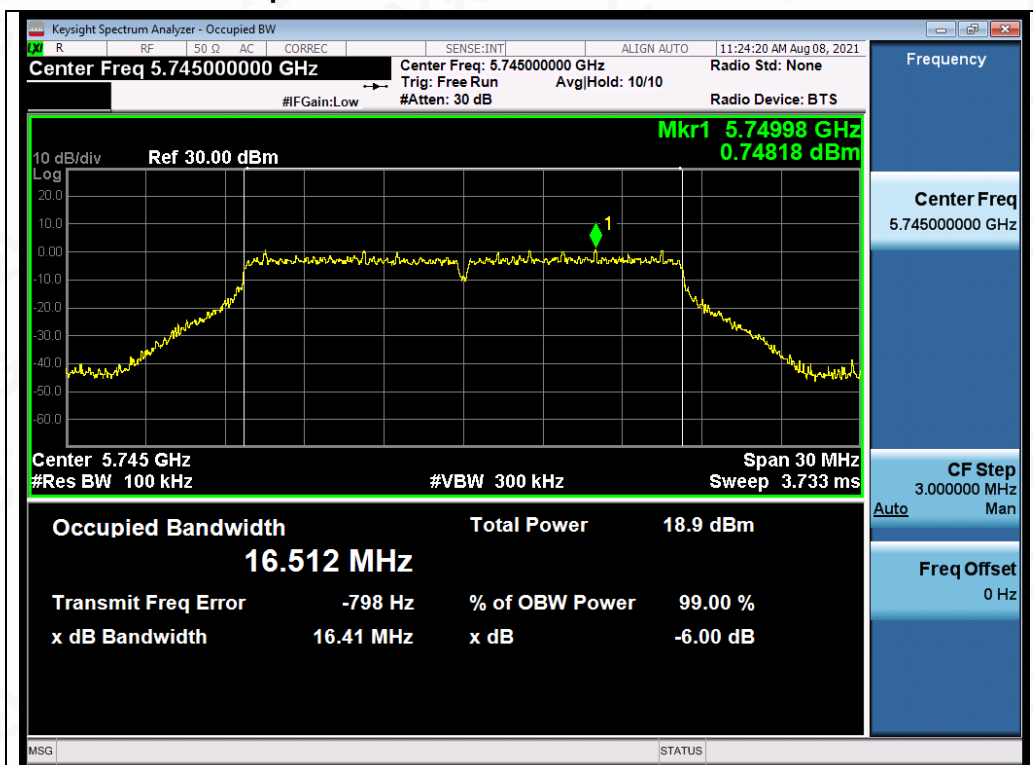
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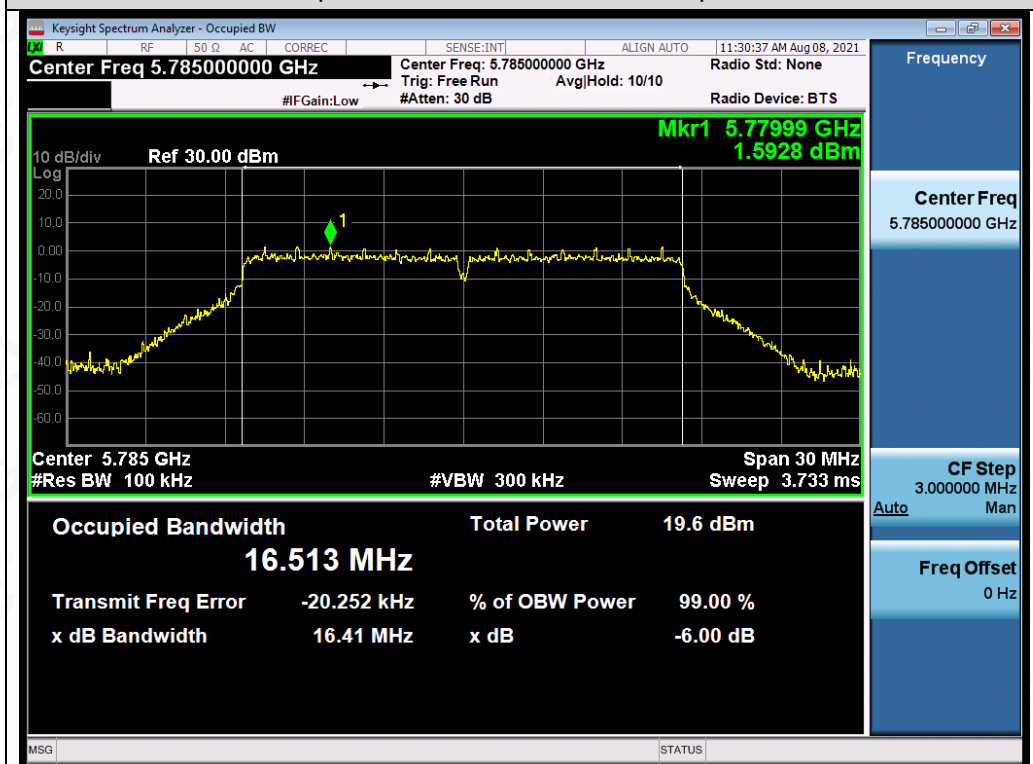
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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



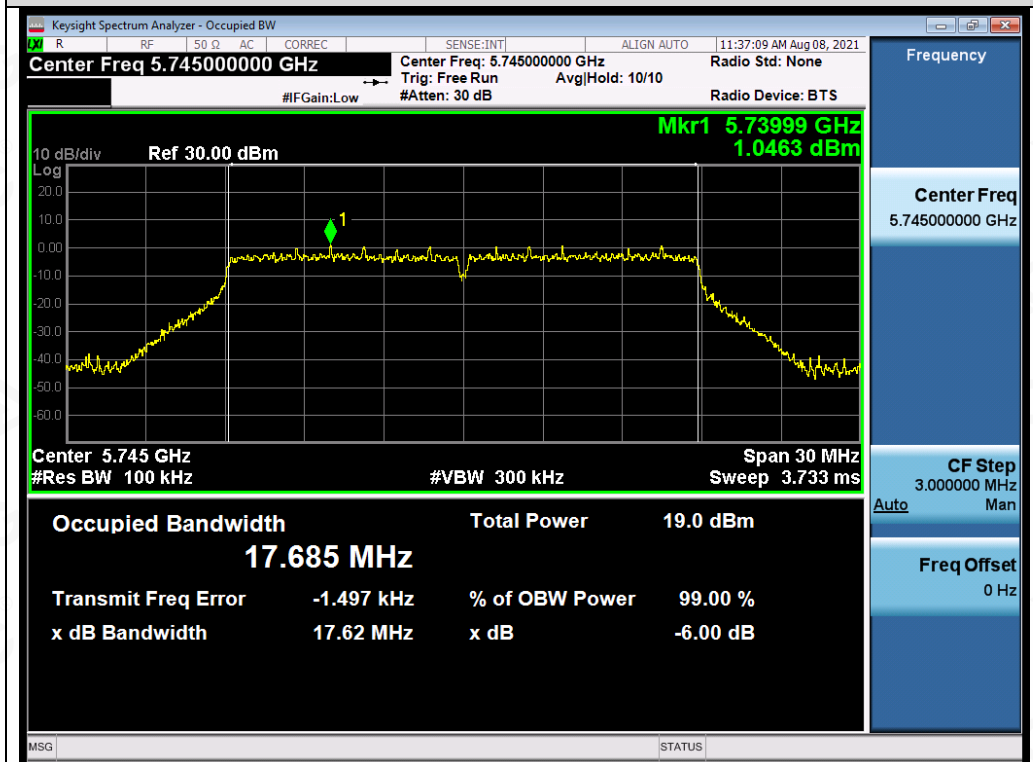
Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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Test_Graph_802.11a_ANT1_5825_6Mbps_DTSBW

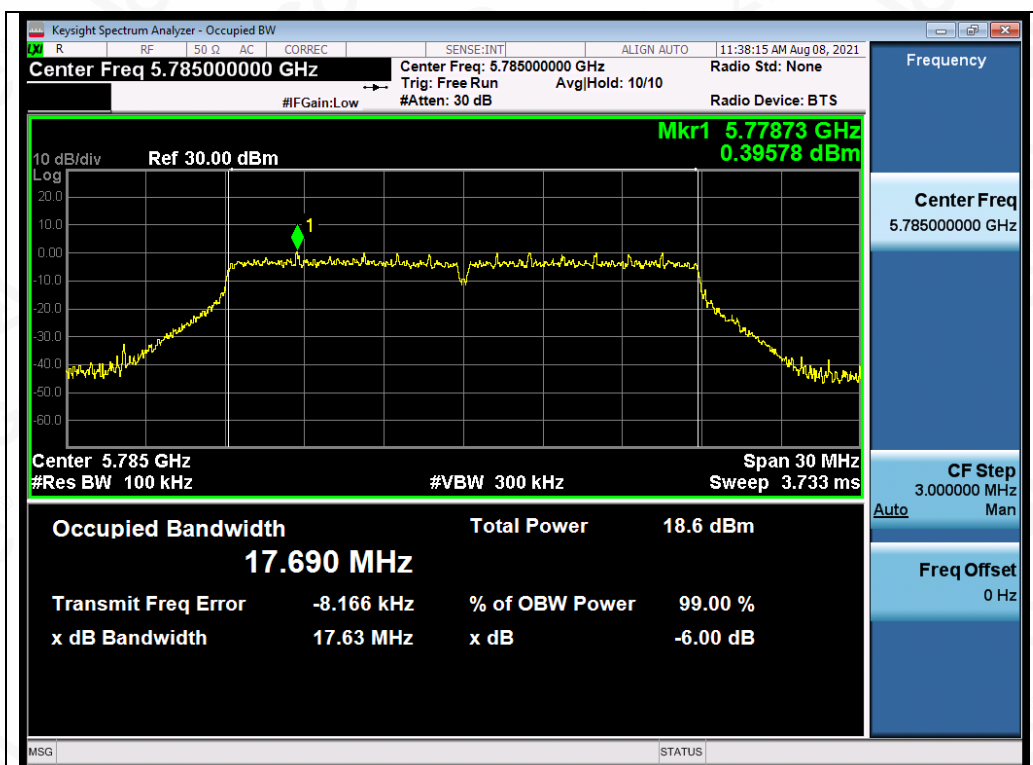


Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW

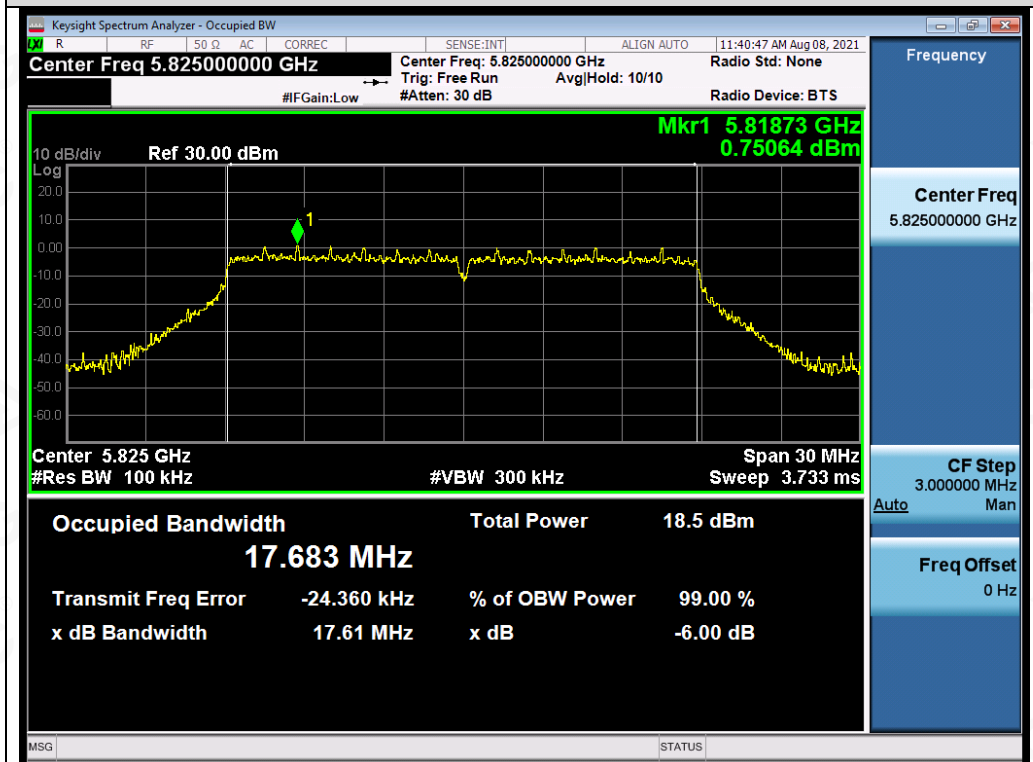
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Test_Graph_802.11n20_ANT1_5785_MCS0_DTSBW



Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW

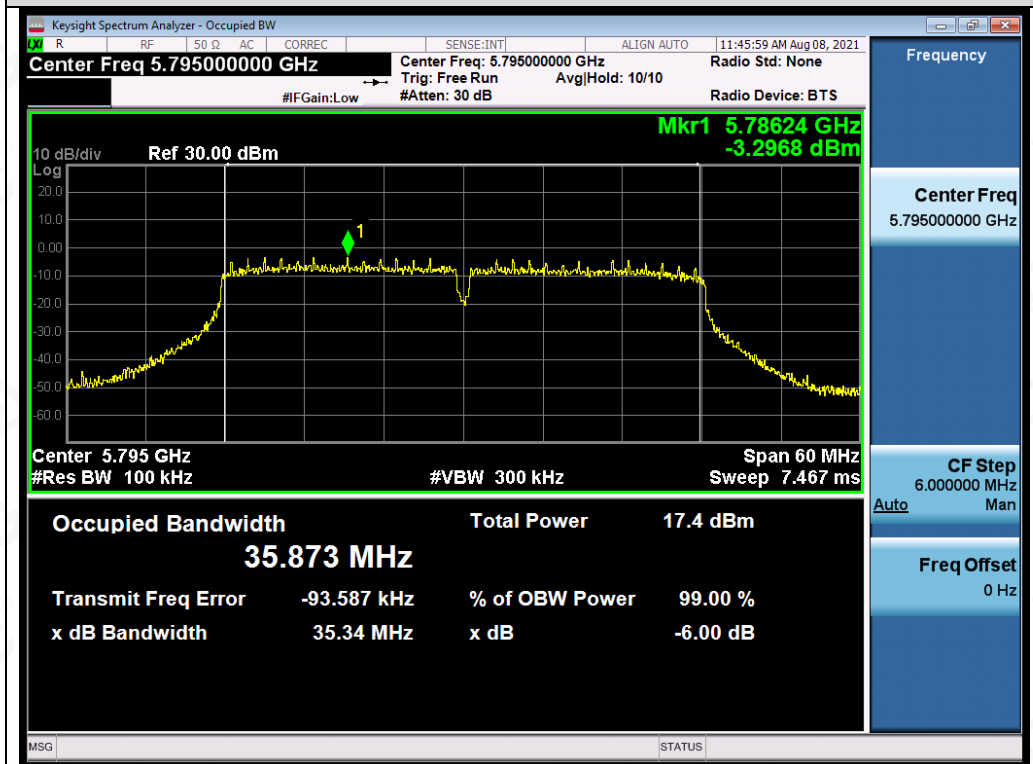
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Test_Graph_802.11n40_ANT1_5755_MCS0_DTSBW

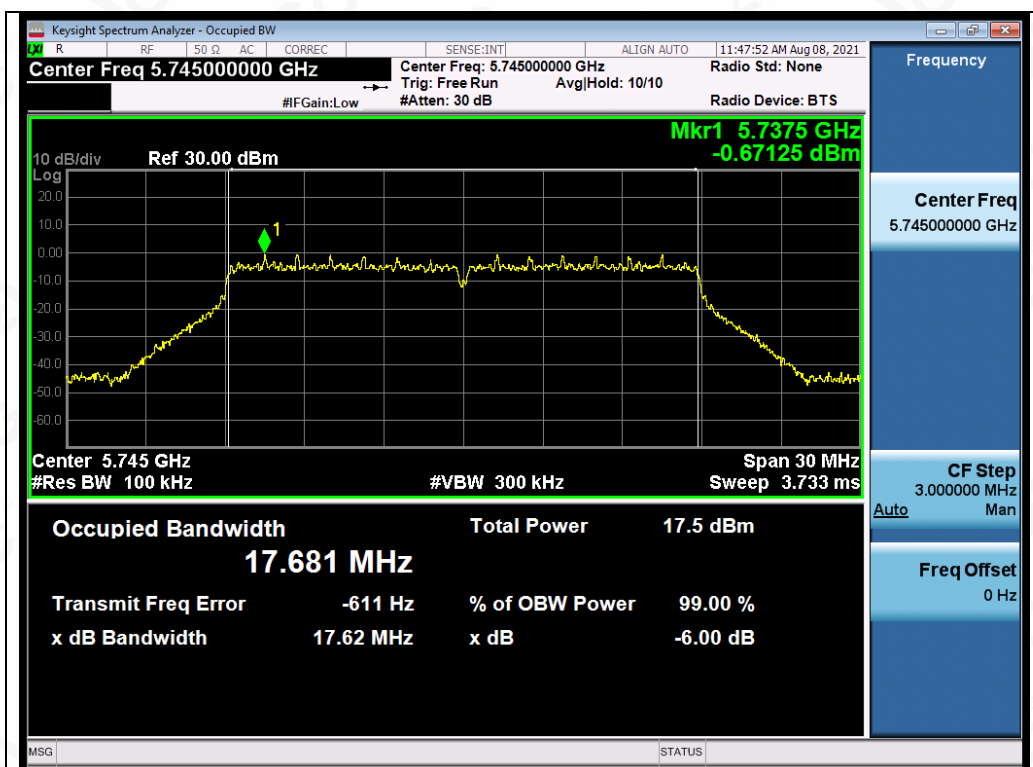


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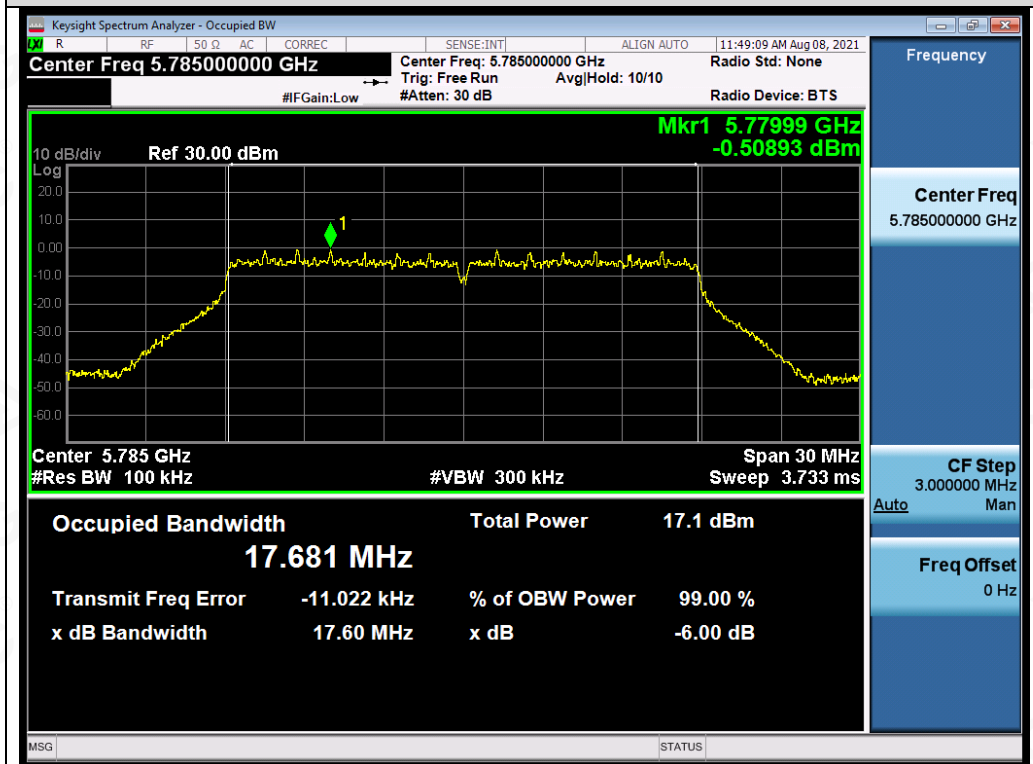
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Test_Graph_802.11ac20_ANT1_5745_MCS0_DTSBW



Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW

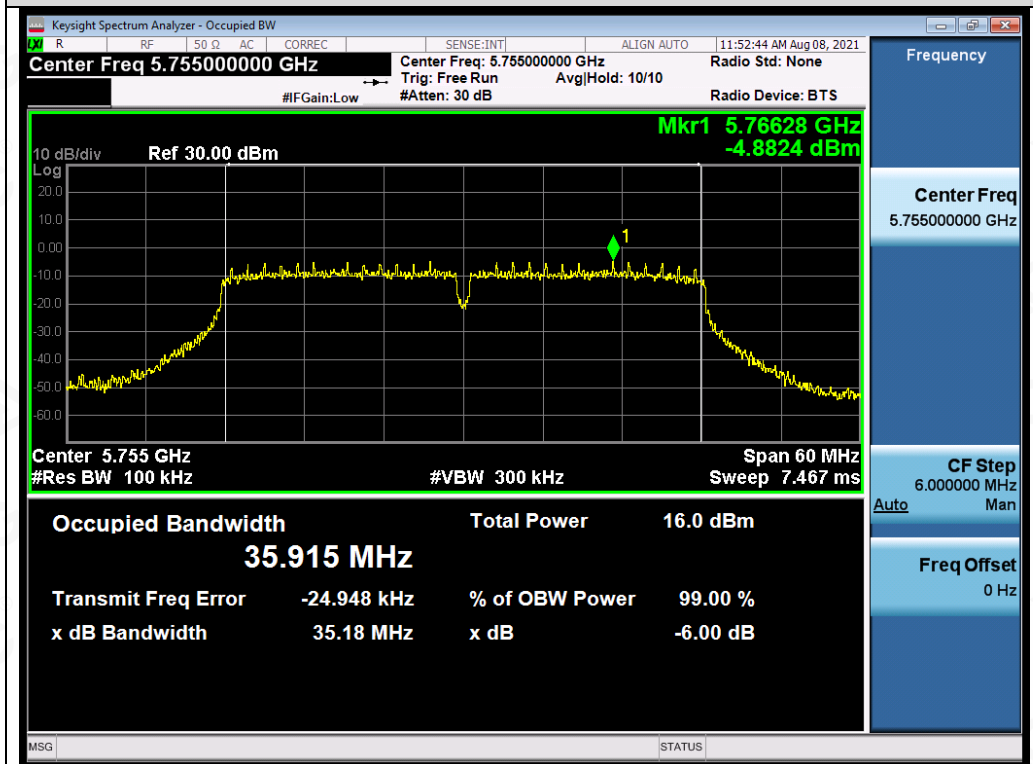
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Test_Graph_802.11ac20_ANT1_5825_MCS9_DTSBW



Test_Graph_802.11ac40_ANT1_5755_MCS9_DTSBW

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