
FCC Test Report

Report No.: AGC02762220807FE06

FCC ID : 2AL26-K6

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Body Worn Camera

BRAND NAME : Reveal Media

MODEL NAME : K6

APPLICANT : Reveal Media Limited

DATE OF ISSUE : Oct. 13, 2022

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 | / | Oct. 13, 2022 | Valid | Initial Release |

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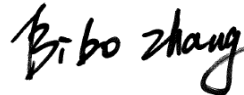
1. VERIFICATION OF CONFORMITY

| | |
|-------------------------------------|--|
| Applicant | Reveal Media Limited |
| Address | Riverview House, 20 Old Bridge Street, Hampton Wick, KT1 4BU, UNITED KINGDOM |
| Manufacturer | Reveal Media Hong Kong Ltd. |
| Address | 6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chai, Hong Kong |
| Factory | Reveal Media Hong Kong Ltd. |
| Address | 6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chai, Hong Kong |
| Product Designation | Body Worn Camera |
| Brand Name | Reveal Media |
| Test Model | K6 |
| Date of receipt of test item | Aug. 17, 2022 |
| Date of test | Aug. 17, 2022~Oct. 13, 2022 |
| 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



Bibo Zhang
(Project Engineer)

Oct. 13, 2022

Reviewed By



Calvin Liu
(Reviewer)

Oct. 13, 2022

Approved By



Max Zhang
Authorized Officer

Oct. 13, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Body Worn Camera”. 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"/> Indoor access points <input type="checkbox"/> Fixed P2P access points <input checked="" type="checkbox"/> Client devices |
| Operation Frequency | <input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz <input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input checked="" type="checkbox"/> U-NII 2C:5470MHz~5725MHz <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 |
| Test Frequency Range | For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5690MHz, 5775MHz |
| Max Average Power | IEEE 802.11a:12.81dBm; IEEE 802.11n-HT20:12.54dBm; IEEE 802.11n-HT40:12.48dBm; IEEE 802.11ac-VHT20:11.50dBm; IEEE 802.11ac-VHT40:11.41dBm; IEEE 802.11ac-VHT80:10.84dBm |
| Modulation | 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM,128QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM,128QAM,256QAM) |
| Data Rate | 802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 868.8Mbps |
| Number of channels | 7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 21 channels of U-NII 2C Band 8 channels of U-NII-3 Band |
| Hardware Version | EP-VRM04MB-03 |
| Software Version | V1.0 |
| Antenna Designation | PIFA Antenna (Comply with requirements of the FCC part 15.203) |
| Antenna Gain | 1.82dBi |
| Power Supply | DC 3.8V 4500Mah by battery |

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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):

| 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):

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

1 channel is provided for 802.11ac (VHT80):

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

For 5260~5320MHz:

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

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 52 | 5260 MHz | 60 | 5300 MHz |
| 56 | 5280 MHz | 64 | 5320 MHz |

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

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 54 | 5270 MHz | 62 | 5310 MHz |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 58 | 5290 MHz | -- | -- |

For 5500~5720MHz:

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100 | 5500 MHz | 124 | 5620 MHz |
| 104 | 5520 MHz | 128 | 5640 MHz |
| 108 | 5540 MHz | 132 | 5660 MHz |
| 112 | 5560 MHz | 136 | 5680 MHz |
| 116 | 5580 MHz | 140 | 5700 MHz |
| 120 | 5600 MHz | 144 | 5720 MHz |

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102 | 5510 MHz | 126 | 5630 MHz |
| 110 | 5550 MHz | 134 | 5670 MHz |
| 118 | 5590 MHz | 142 | 5710 MHz |

3 channel is provided for 802.11ac (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106 | 5530 MHz | 122 | 5610 MHz |
| 138 | 5690 MHz | -- | -- |

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For 5745~5825MHz:

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

| 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):

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

1 channel is provided for 802.11ac (VHT80):

| 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: 2AL26-K6** 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.

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 | $U_c = \pm 3.1$ dB |
| Uncertainty of Radiated Emission below 1GHz | $U_c = \pm 4.0$ dB |
| Uncertainty of Radiated Emission above 1GHz | $U_c = \pm 4.8$ dB |
| Uncertainty of total RF power, conducted | $U_c = \pm 0.8$ dB |
| Uncertainty of RF power density, conducted | $U_c = \pm 2.6$ 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:

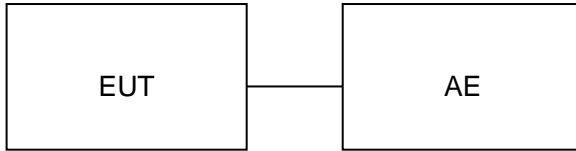
1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%.
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. The test software is through engineering commands, EUT can be set to a separate test mode.

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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 | Body Worn Camera | K6 | 2AL26-K6 | EUT |
| 2 | Battery | IBR036GA | DC 3.8V 4500mAH | 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 |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------|----------------|--------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Mar. 28, 2022 | Mar. 27, 2023 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Nov. 17, 2021 | Nov. 16, 2022 |
| 2.4GHz Filter | EM Electronics | 2400-2500MHz | 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. 11, 2024 |
| 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 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Sep. 01, 2022 | Aug. 31, 2023 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 08, 2021 | Jan. 07, 2023 |
| Test software | Tonscend | JS32-RE | Ver.2.5 | N/A | N/A |

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

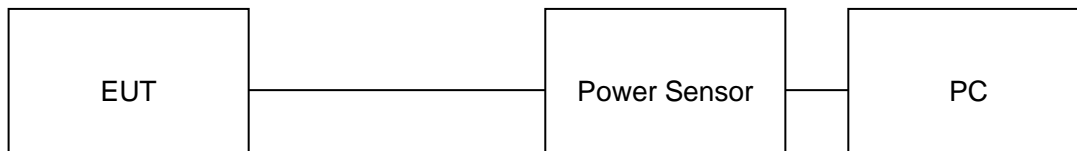
For average power test:

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 | 12.81 | 24 | Pass |
| | 5200 | 12.32 | 24 | Pass |
| | 5240 | 12.09 | 24 | Pass |
| 802.11n20 | 5180 | 12.54 | 24 | Pass |
| | 5200 | 12.16 | 24 | Pass |
| | 5240 | 11.87 | 24 | Pass |
| 802.11n40 | 5190 | 12.48 | 24 | Pass |
| | 5230 | 11.44 | 24 | Pass |
| 802.11ac20 | 5180 | 11.80 | 24 | Pass |
| | 5200 | 11.50 | 24 | Pass |
| | 5240 | 11.12 | 24 | Pass |
| 802.11ac40 | 5190 | 11.41 | 24 | Pass |
| | 5230 | 10.95 | 24 | Pass |
| 802.11ac80 | 5210 | 10.84 | 24 | Pass |

| Test Data of Conducted Output Power for band 5.25-5.35 GHz | | | | |
|--|--------------------|---------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a | 5260 | 11.95 | 24 | Pass |
| | 5300 | 11.55 | 24 | Pass |
| | 5320 | 11.51 | 24 | Pass |
| 802.11n20 | 5260 | 11.58 | 24 | Pass |
| | 5300 | 11.22 | 24 | Pass |
| | 5320 | 11.17 | 24 | Pass |
| 802.11n40 | 5270 | 11.46 | 24 | Pass |
| | 5310 | 11.54 | 24 | Pass |
| 802.11ac20 | 5260 | 11.20 | 24 | Pass |
| | 5300 | 10.98 | 24 | Pass |
| | 5320 | 10.87 | 24 | Pass |
| 802.11ac40 | 5270 | 10.60 | 24 | Pass |
| | 5310 | 10.70 | 24 | Pass |
| 802.11ac80 | 5290 | 10.67 | 24 | Pass |

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| Test Data of Conducted Output Power for band 5.47-5.725 GHz | | | | |
|---|--------------------|---------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a | 5500 | 11.98 | 24 | Pass |
| | 5600 | 11.52 | 24 | Pass |
| | 5700 | 11.39 | 24 | Pass |
| 802.11n20 | 5500 | 11.75 | 24 | Pass |
| | 5600 | 11.27 | 24 | Pass |
| | 5700 | 10.90 | 24 | Pass |
| 802.11n40 | 5510 | 11.53 | 24 | Pass |
| | 5590 | 11.17 | 24 | Pass |
| 802.11ac20 | 5670 | 11.02 | 24 | Pass |
| | 5500 | 11.14 | 24 | Pass |
| | 5600 | 10.87 | 24 | Pass |
| 802.11ac40 | 5700 | 10.49 | 24 | Pass |
| | 5510 | 10.34 | 24 | Pass |
| 802.11ac80 | 5610 | 9.65 | 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 | 11.21 | 30 | Pass |
| | 5785 | 11.08 | 30 | Pass |
| | 5825 | 10.95 | 30 | Pass |
| 802.11n20 | 5745 | 10.97 | 30 | Pass |
| | 5785 | 10.66 | 30 | Pass |
| | 5825 | 10.59 | 30 | Pass |
| 802.11n40 | 5755 | 10.43 | 30 | Pass |
| | 5795 | 10.14 | 30 | Pass |
| 802.11ac20 | 5745 | 10.15 | 30 | Pass |
| | 5785 | 10.11 | 30 | Pass |
| | 5825 | 9.97 | 30 | Pass |
| 802.11ac40 | 5755 | 9.88 | 30 | Pass |
| | 5795 | 9.78 | 30 | Pass |
| 802.11ac80 | 5775 | 9.74 | 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:

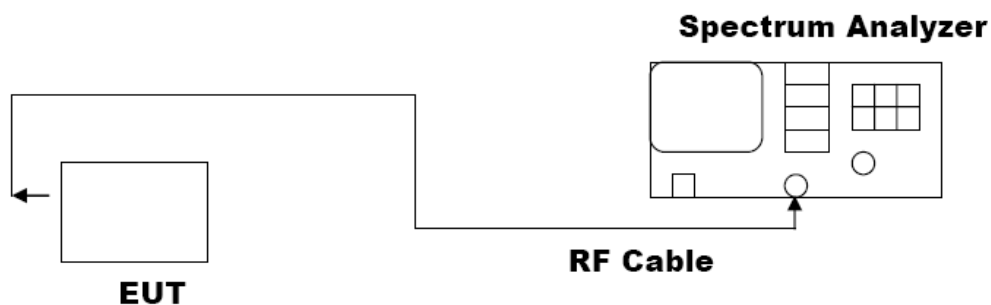
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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 | 16.506 | 20.345 | N/A | Pass |
| | 5200 | 16.507 | 20.504 | N/A | Pass |
| | 5240 | 16.493 | 20.589 | N/A | Pass |
| 802.11n20 | 5180 | 17.548 | 19.893 | N/A | Pass |
| | 5200 | 17.584 | 20.428 | N/A | Pass |
| | 5240 | 17.583 | 20.830 | N/A | Pass |
| 802.11n40 | 5190 | 35.990 | 47.134 | N/A | Pass |
| | 5230 | 36.044 | 49.134 | N/A | Pass |
| 802.11ac20 | 5180 | 17.577 | 19.991 | N/A | Pass |
| | 5200 | 17.567 | 20.829 | N/A | Pass |
| | 5240 | 17.591 | 20.784 | N/A | Pass |
| 802.11ac40 | 5190 | 35.934 | 42.988 | N/A | Pass |
| | 5230 | 35.973 | 48.778 | N/A | Pass |
| 802.11ac80 | 5210 | 75.956 | 103.775 | N/A | Pass |

| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz | | | | | |
|--|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a | 5260 | 16.471 | 21.002 | N/A | Pass |
| | 5300 | 16.476 | 20.345 | N/A | Pass |
| | 5320 | 16.436 | 20.209 | N/A | Pass |
| 802.11n20 | 5260 | 17.579 | 20.782 | N/A | Pass |
| | 5300 | 17.567 | 20.312 | N/A | Pass |
| | 5320 | 17.551 | 19.894 | N/A | Pass |
| 802.11n40 | 5270 | 36.049 | 48.971 | N/A | Pass |
| | 5310 | 35.964 | 42.909 | N/A | Pass |
| 802.11ac20 | 5260 | 17.579 | 20.343 | N/A | Pass |
| | 5300 | 17.552 | 20.222 | N/A | Pass |
| | 5320 | 17.539 | 19.942 | N/A | Pass |
| 802.11ac40 | 5270 | 36.030 | 48.392 | N/A | Pass |
| | 5310 | 35.964 | 46.169 | N/A | Pass |
| 802.11ac80 | 5290 | 75.998 | 108.735 | N/A | Pass |

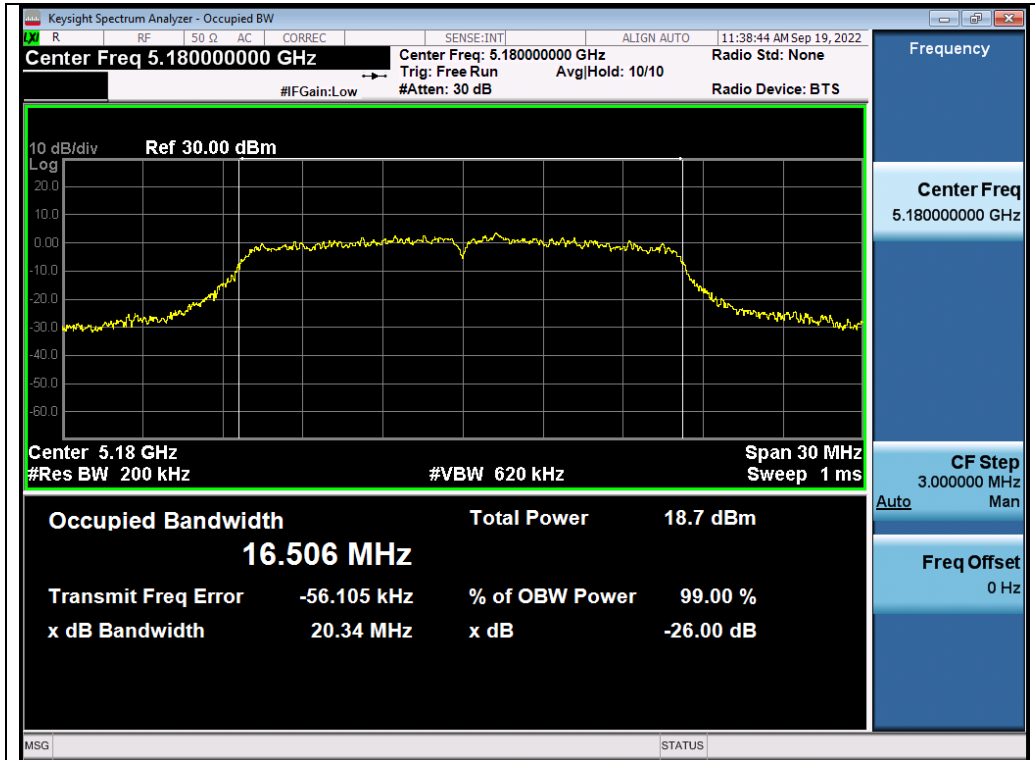
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| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.325 GHz | | | | | |
|---|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a | 5500 | 16.461 | 19.912 | N/A | Pass |
| | 5600 | 16.437 | 20.204 | N/A | Pass |
| | 5700 | 16.475 | 20.250 | N/A | Pass |
| 802.11n20 | 5500 | 17.489 | 19.789 | N/A | Pass |
| | 5600 | 17.519 | 19.967 | N/A | Pass |
| | 5700 | 17.521 | 19.860 | N/A | Pass |
| 802.11n40 | 5510 | 35.886 | 40.607 | N/A | Pass |
| | 5590 | 35.936 | 40.783 | N/A | Pass |
| | 5670 | 35.936 | 42.047 | N/A | Pass |
| 802.11ac20 | 5500 | 17.490 | 19.776 | N/A | Pass |
| | 5600 | 17.498 | 19.813 | N/A | Pass |
| | 5700 | 17.521 | 19.956 | N/A | Pass |
| 802.11ac40 | 5510 | 35.896 | 40.623 | N/A | Pass |
| | 5590 | 35.897 | 40.410 | N/A | Pass |
| 802.11ac80 | 5610 | 76.059 | 100.675 | N/A | Pass |

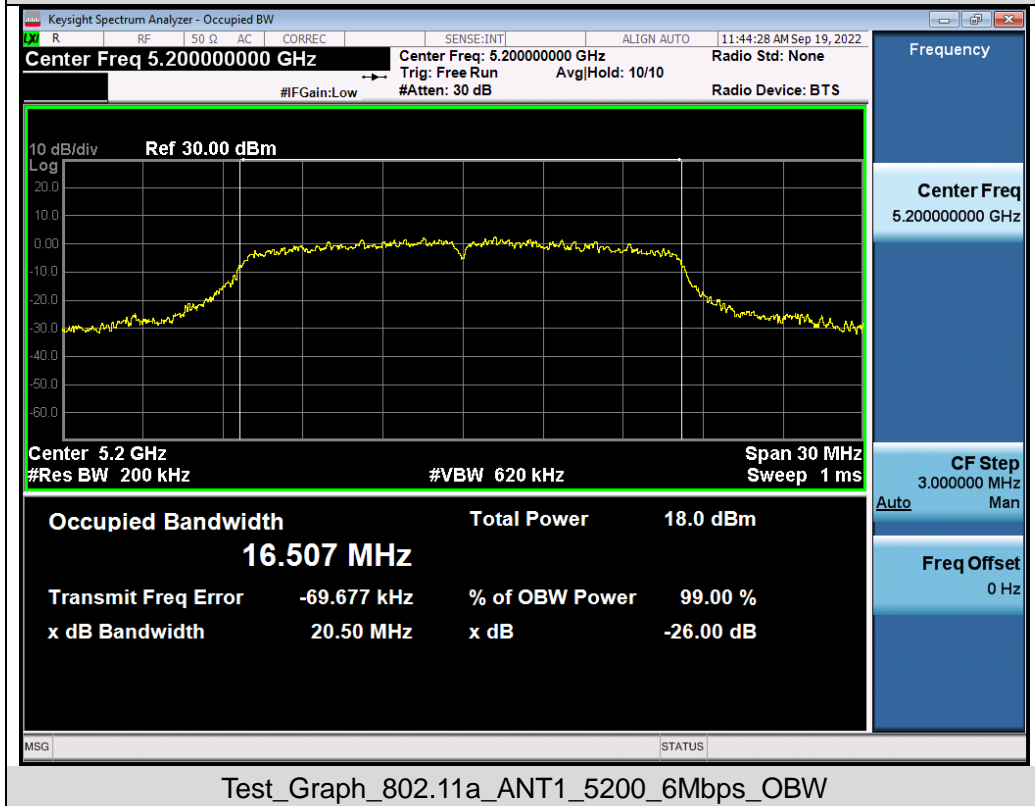
| Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz | | | | | |
|---|--------------------|------------------------------|---------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | DTS Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a | 5745 | 16.508 | 15.097 | 0.5 | Pass |
| | 5785 | 16.495 | 15.038 | 0.5 | Pass |
| | 5825 | 16.473 | 15.325 | 0.5 | Pass |
| 802.11n20 | 5745 | 17.526 | 15.056 | 0.5 | Pass |
| | 5785 | 17.518 | 15.085 | 0.5 | Pass |
| | 5825 | 17.518 | 15.090 | 0.5 | Pass |
| 802.11n40 | 5755 | 35.922 | 35.088 | 0.5 | Pass |
| | 5795 | 35.915 | 35.083 | 0.5 | Pass |
| 802.11ac20 | 5745 | 17.534 | 15.026 | 0.5 | Pass |
| | 5785 | 17.523 | 15.024 | 0.5 | Pass |
| | 5825 | 17.511 | 15.082 | 0.5 | Pass |
| 802.11ac40 | 5755 | 35.897 | 35.039 | 0.5 | Pass |
| | 5795 | 35.886 | 35.026 | 0.5 | Pass |
| 802.11ac80 | 5775 | 75.611 | 75.716 | 0.5 | Pass |

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

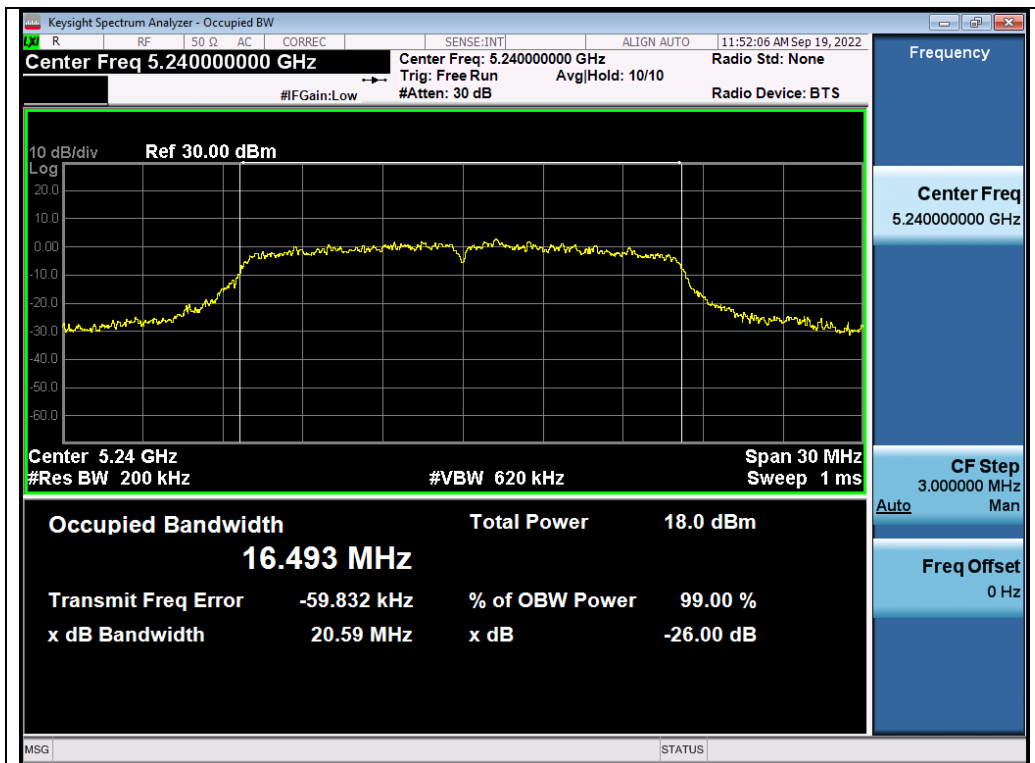


Test_Graph_802.11a_ANT1_5180_6Mbps_OBW

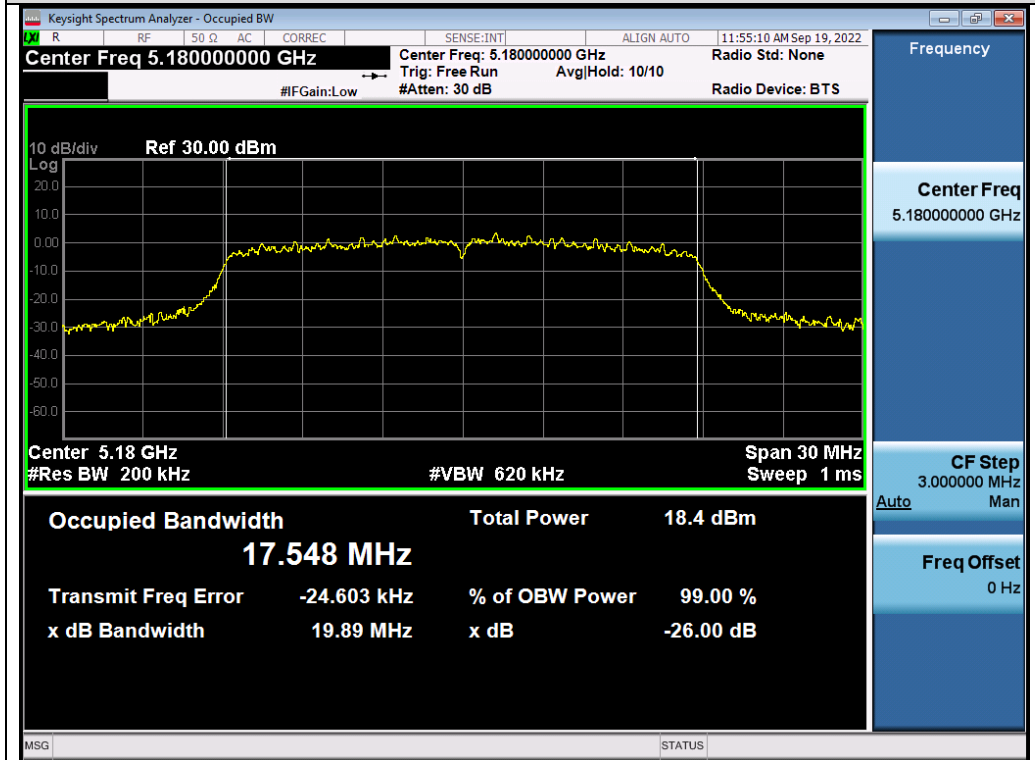


Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

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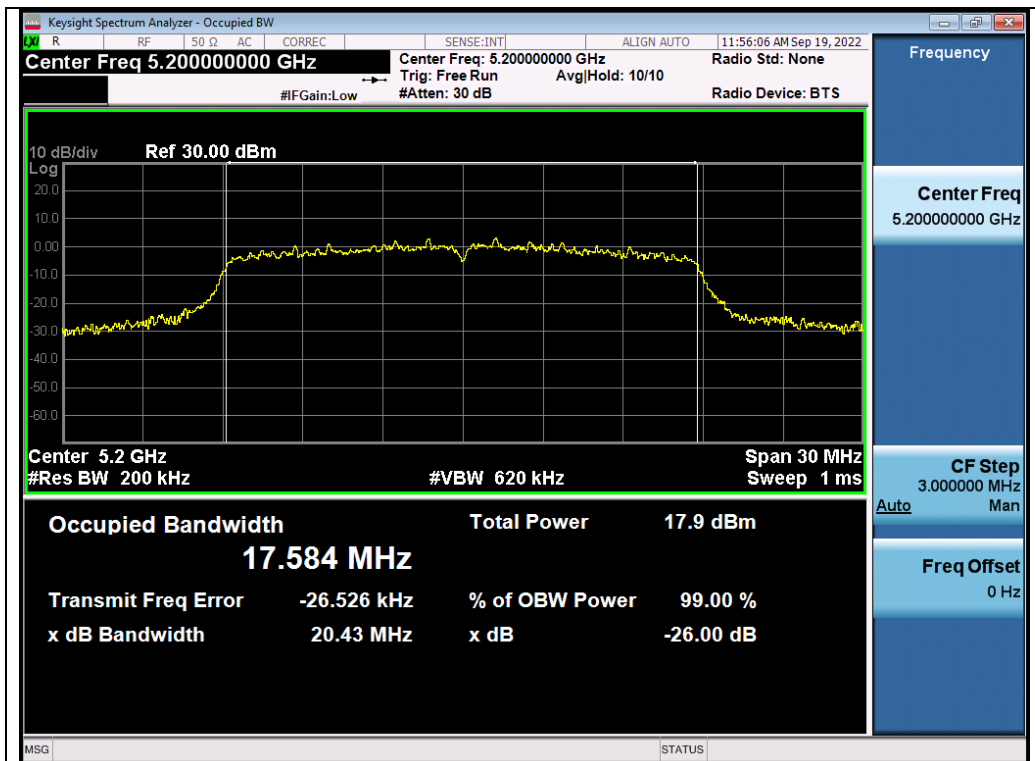


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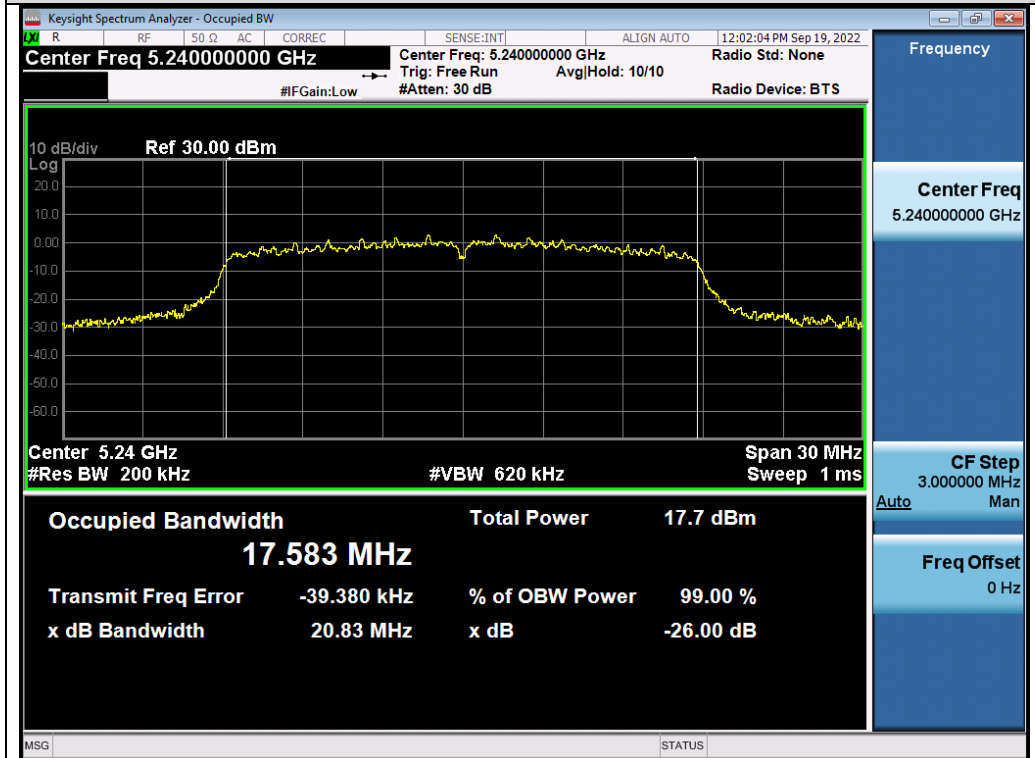


Test_Graph_802.11n20_ANT1_5180_MCS0_OBW

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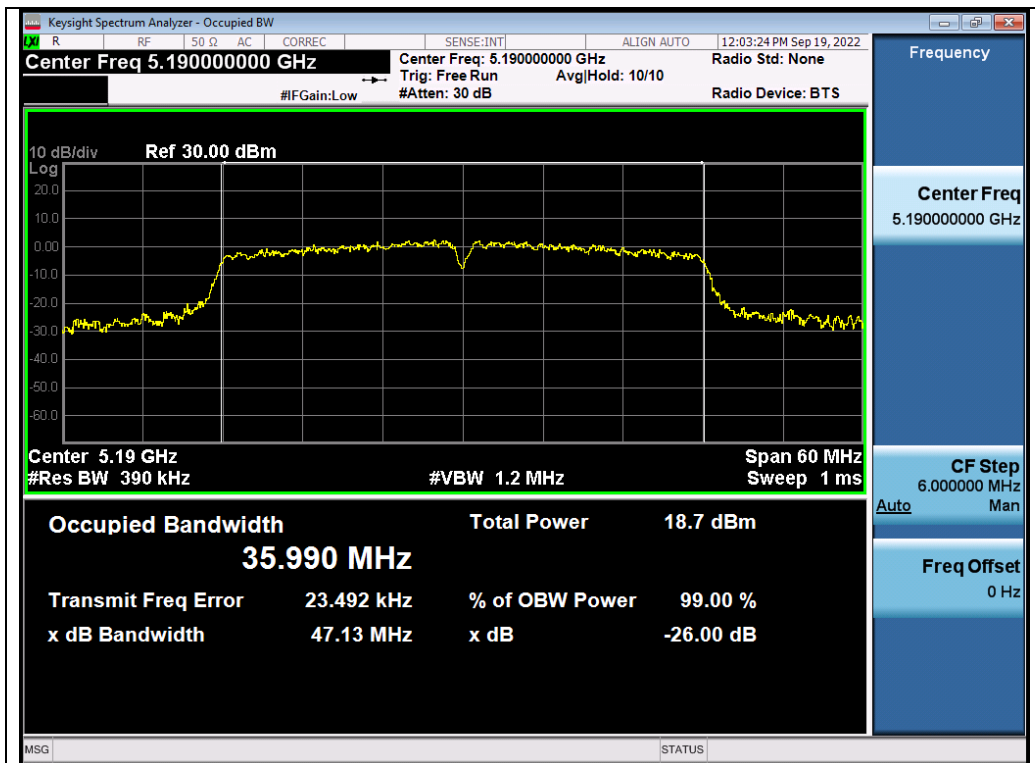


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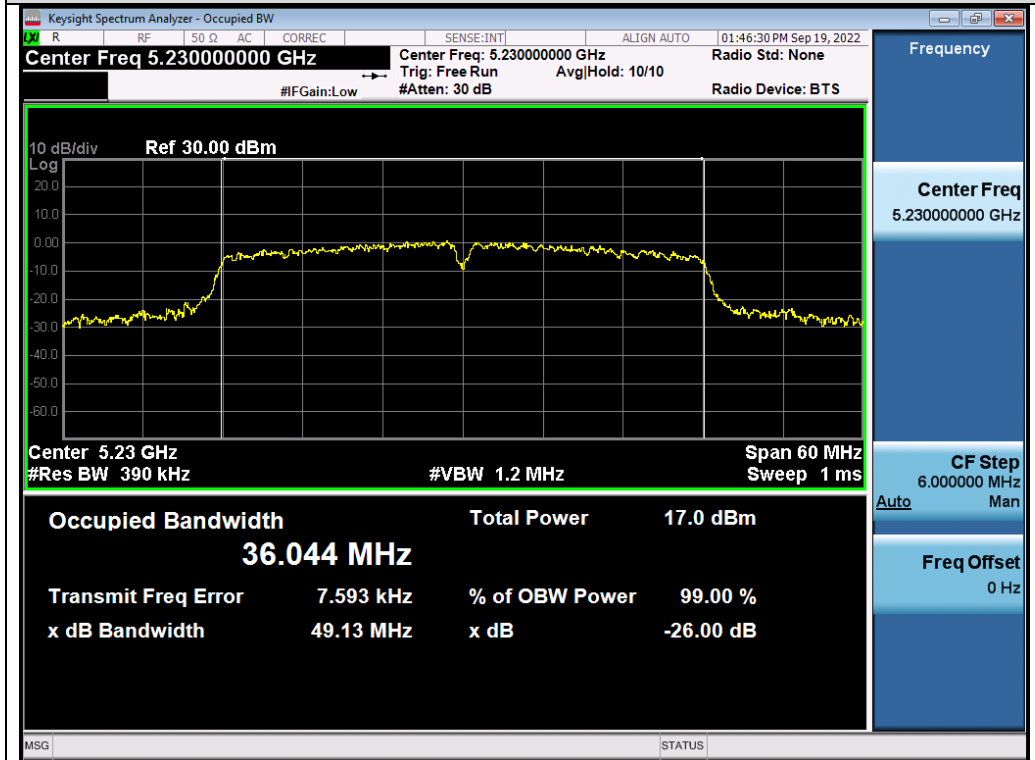


Test_Graph_802.11n20_ANT1_5240_MCS0_OBW

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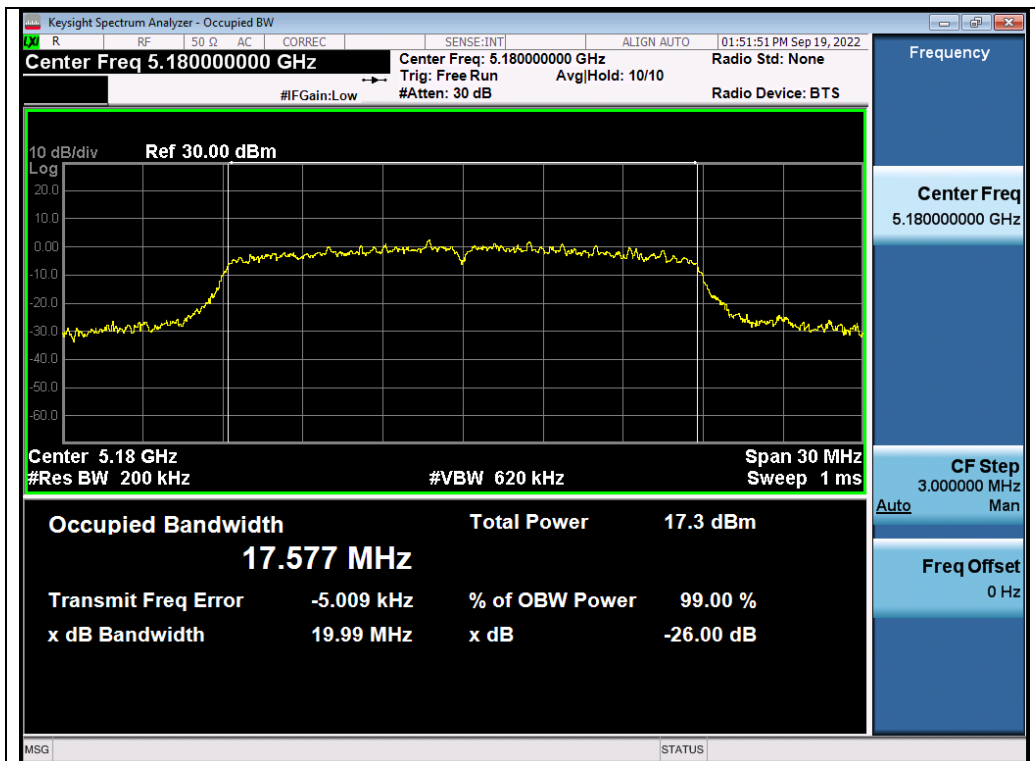


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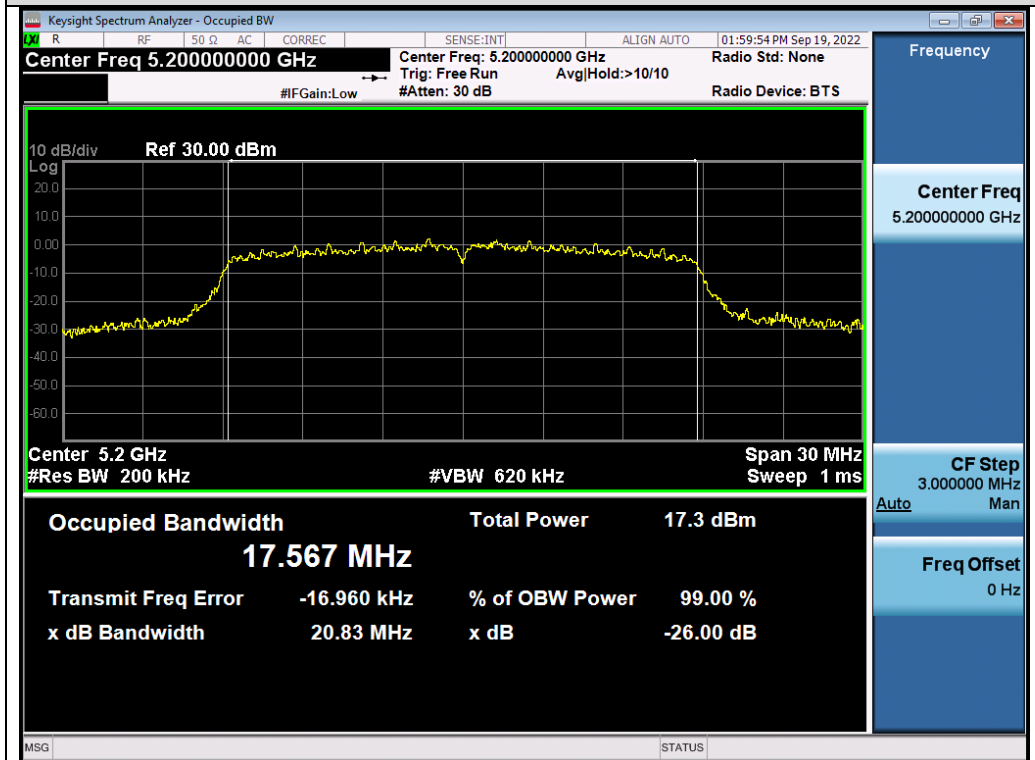


Test_Graph_802.11n40_ANT1_5230_MCS0_OBW

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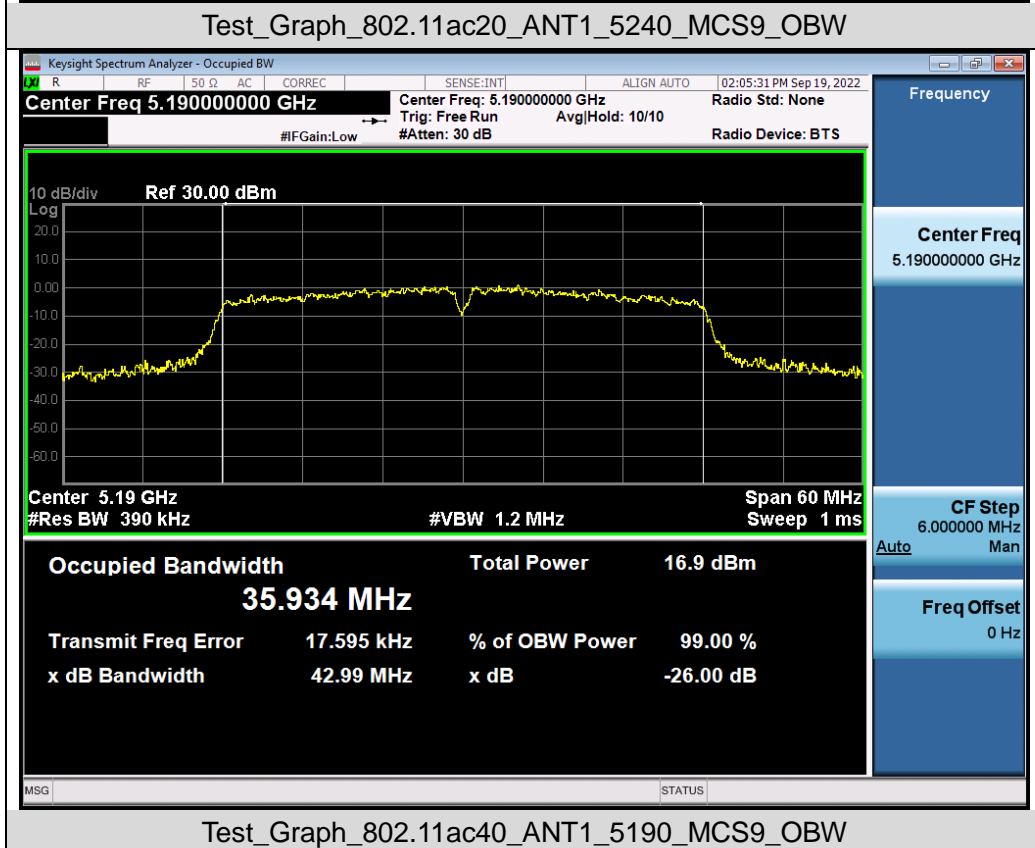
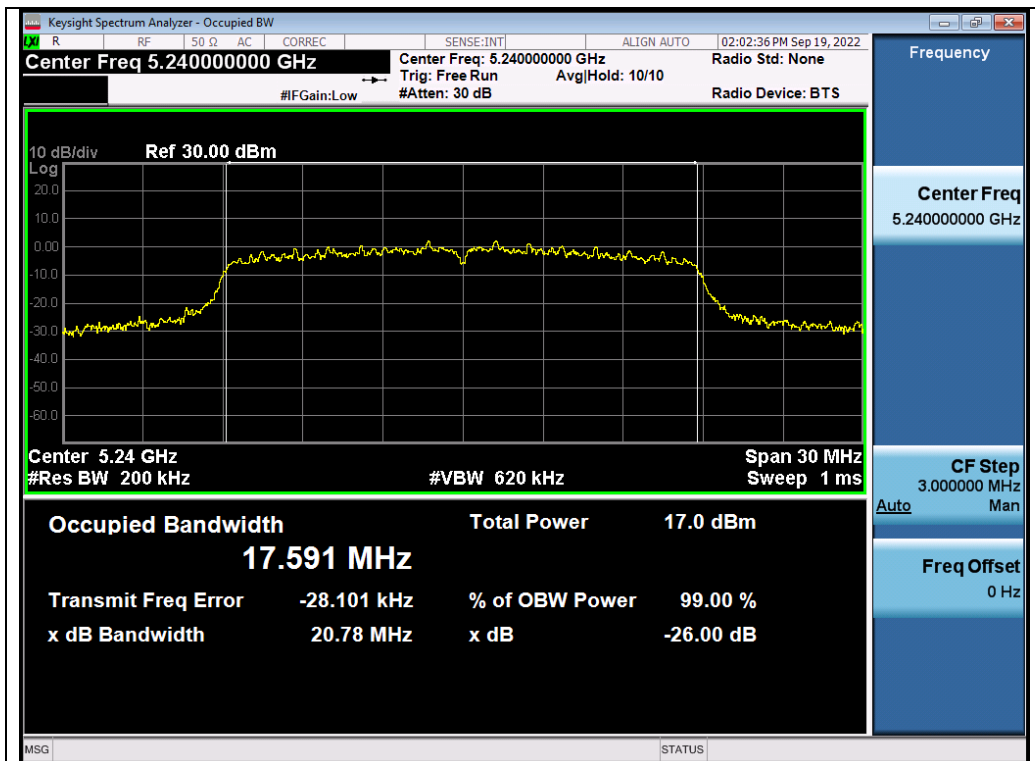


Test_Graph_802.11ac20_ANT1_5180_MCS0_OBW

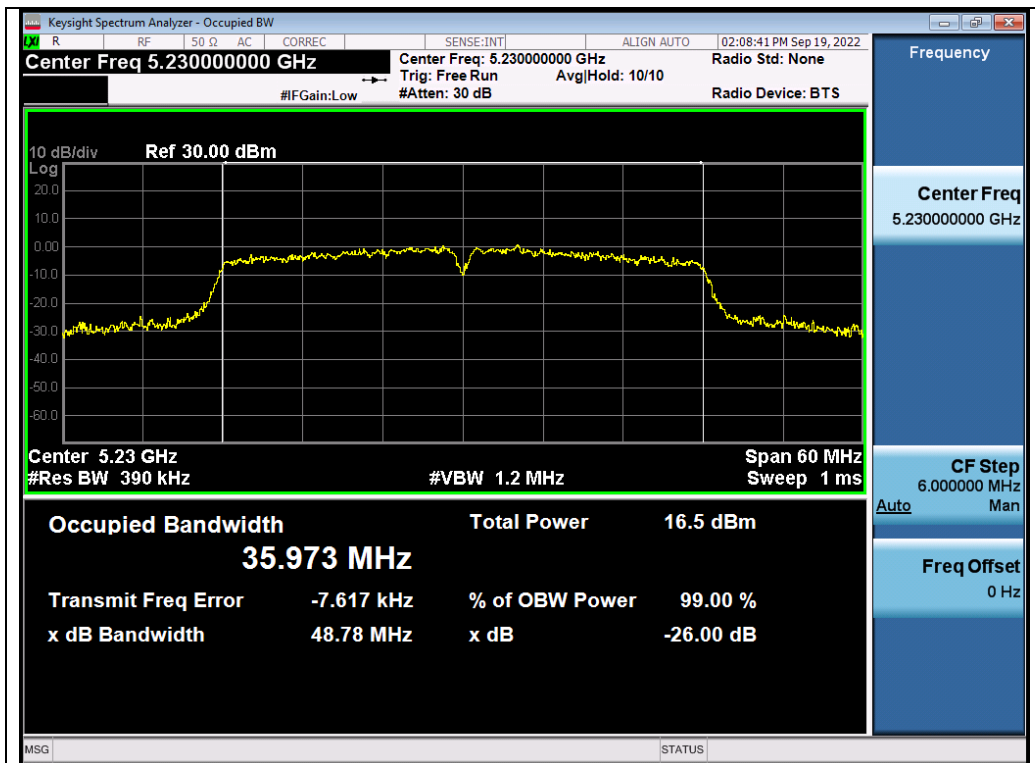


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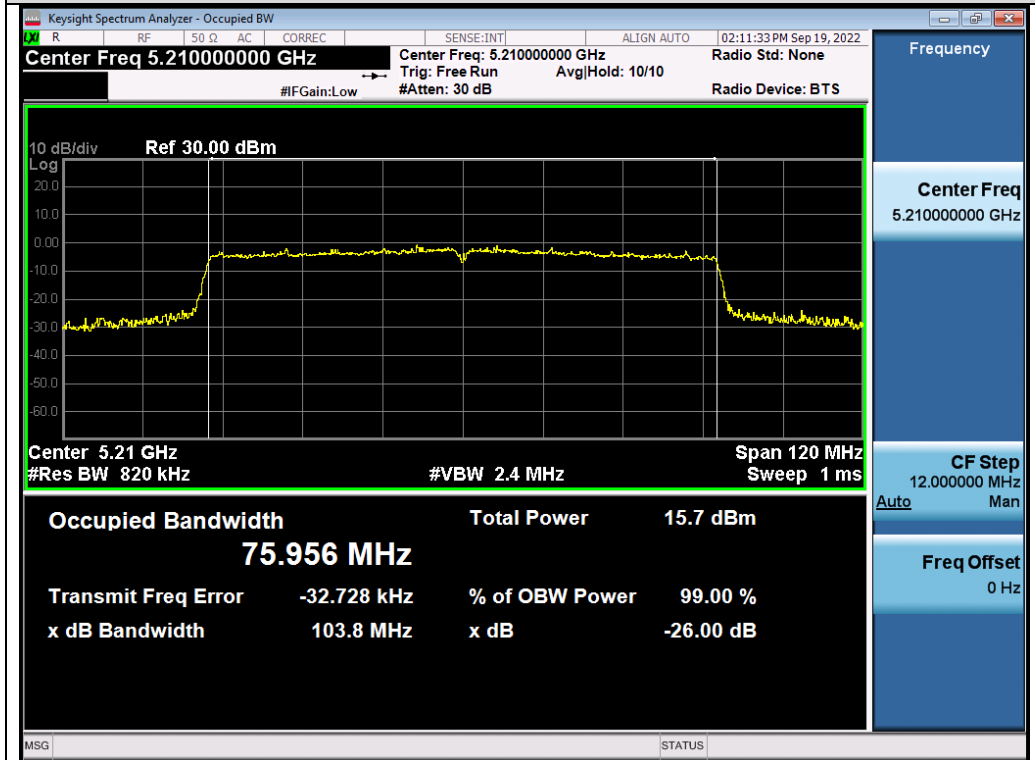
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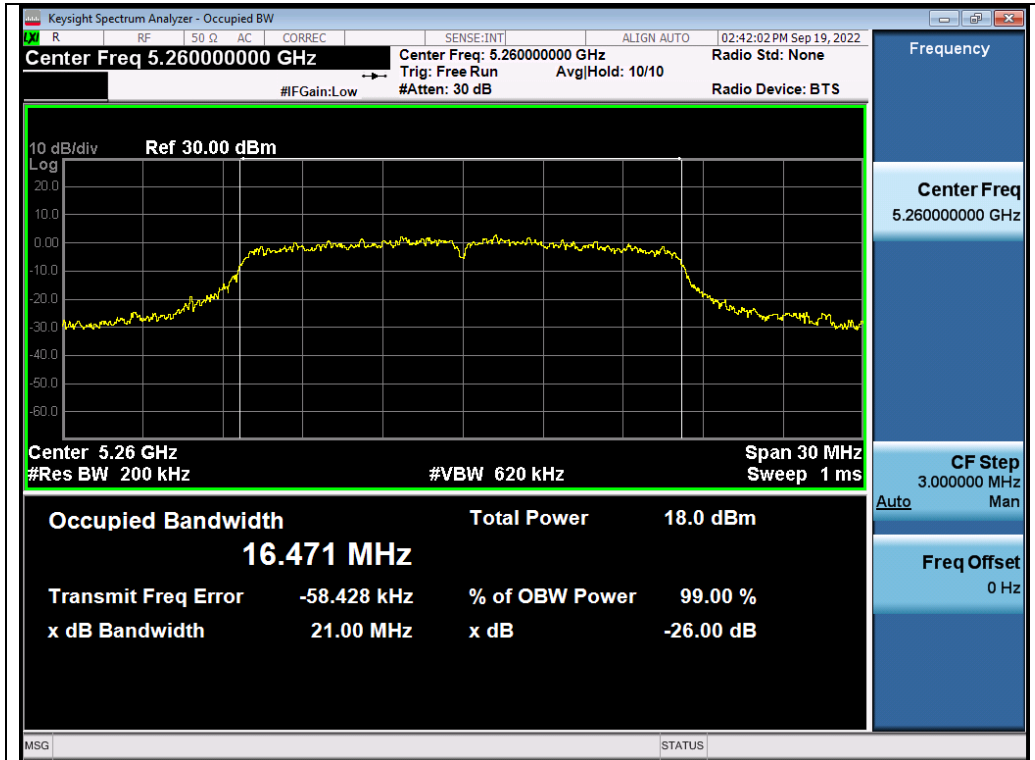
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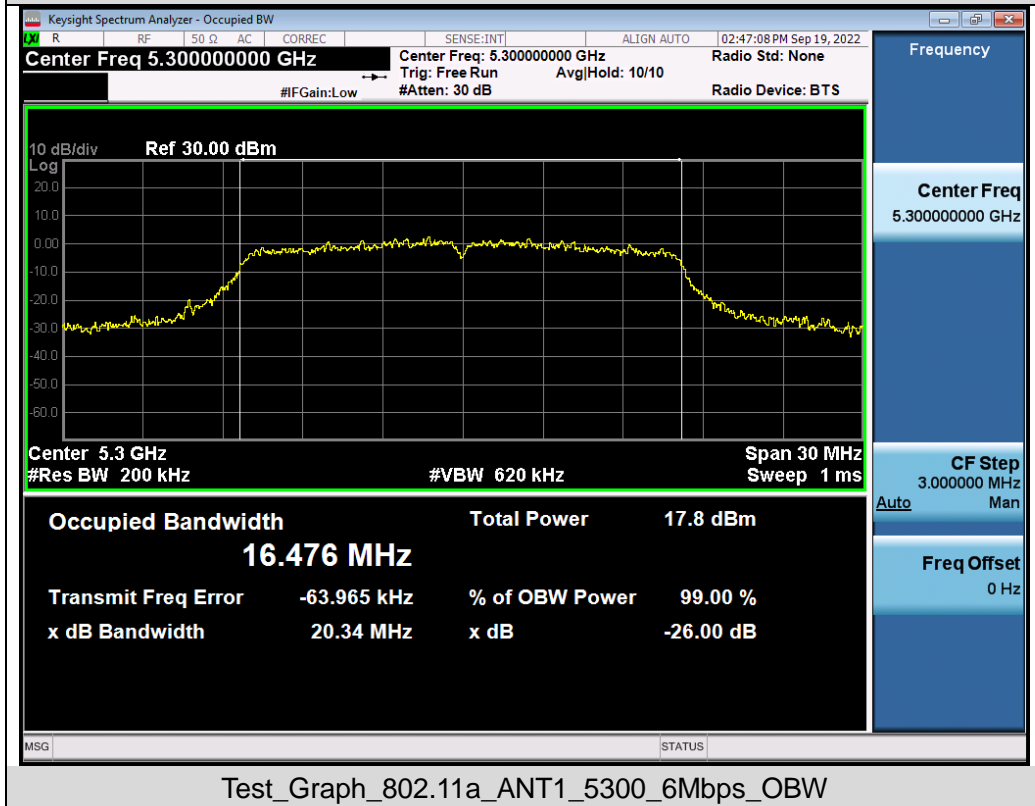
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_OBW

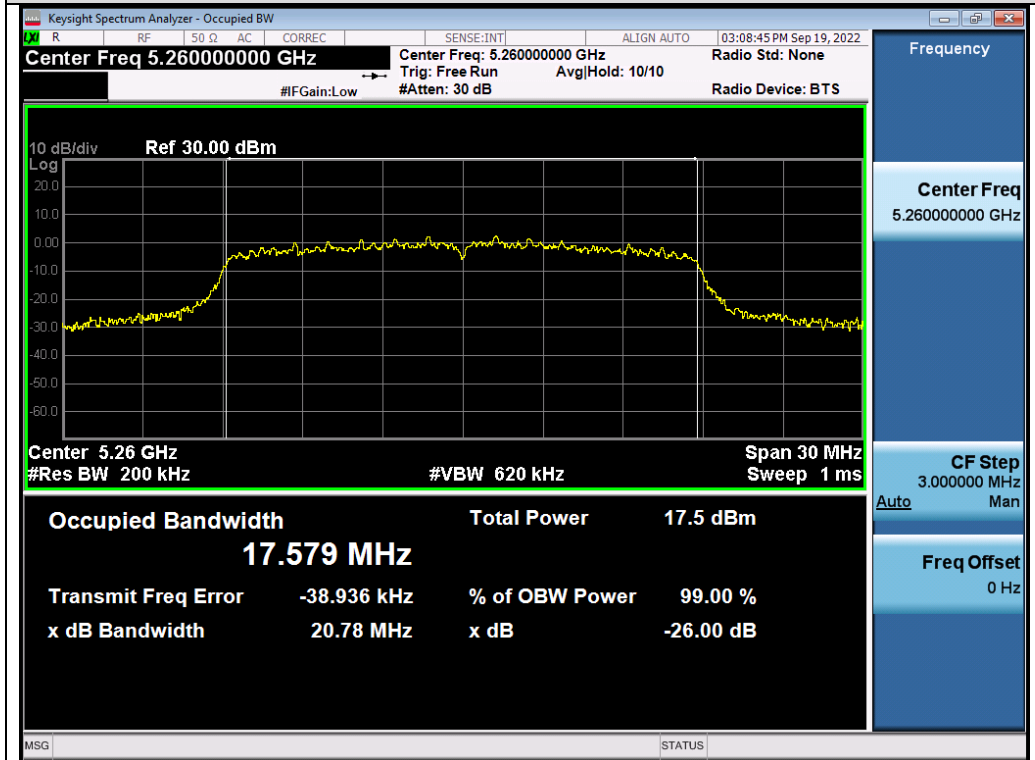


Test_Graph_802.11a_ANT1_5300_6Mbps_OBW

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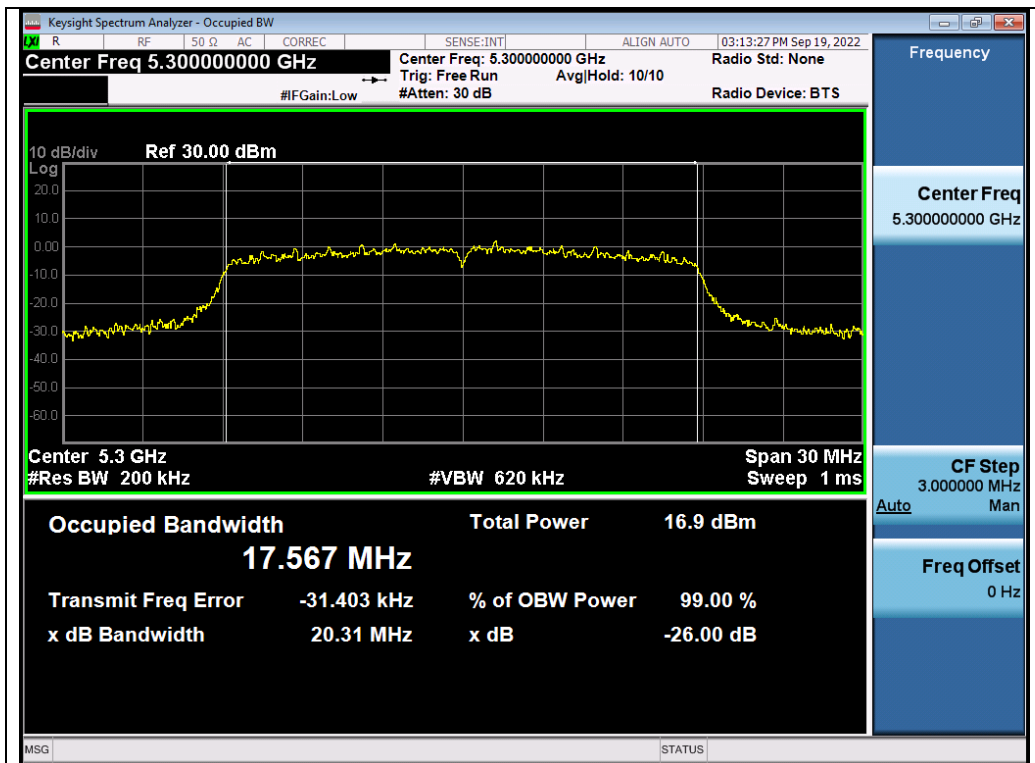


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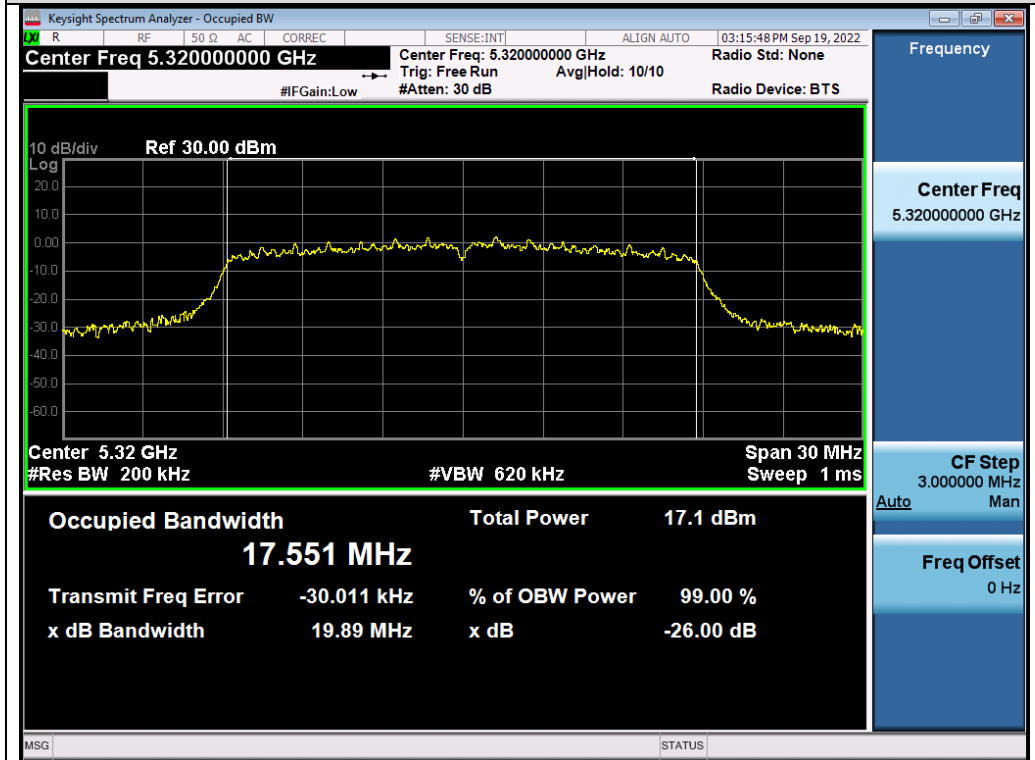


Test_Graph_802.11n20_ANT1_5260_MCS0_OBW

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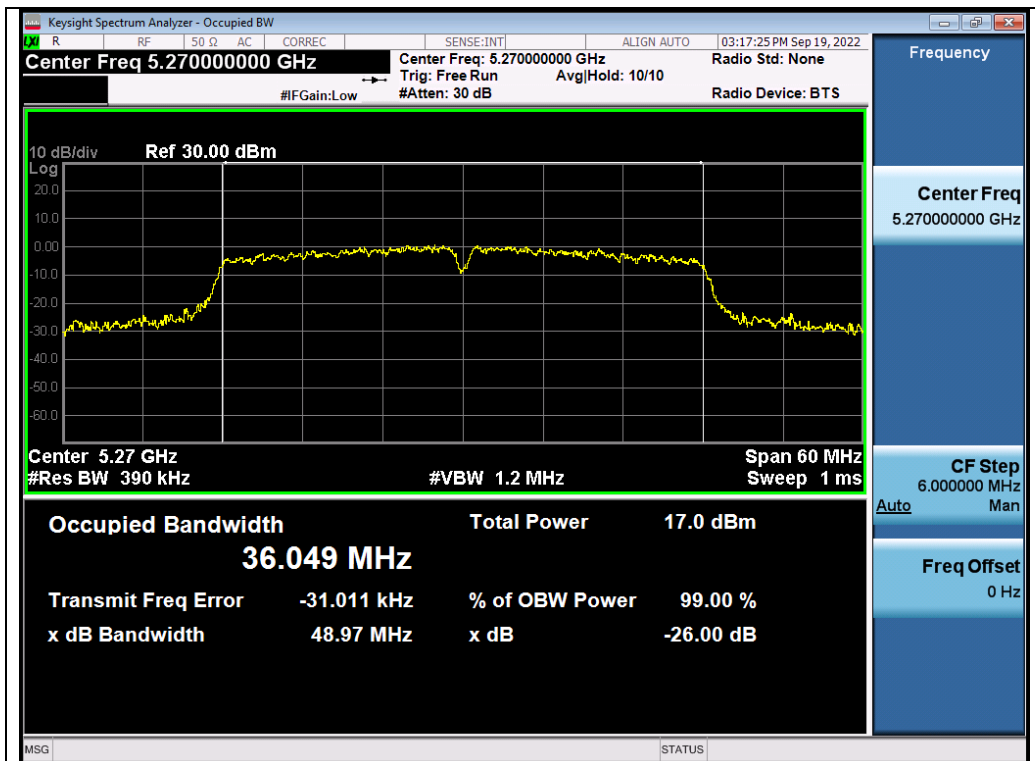


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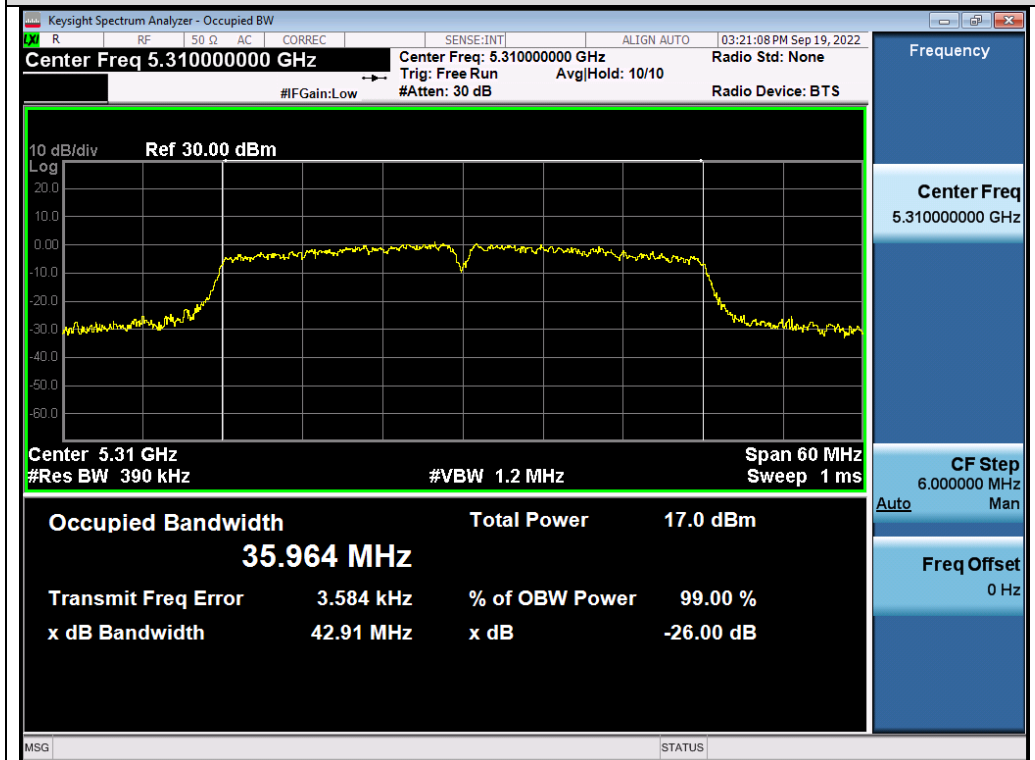


Test_Graph_802.11n20_ANT1_5320_MCS0_OBW

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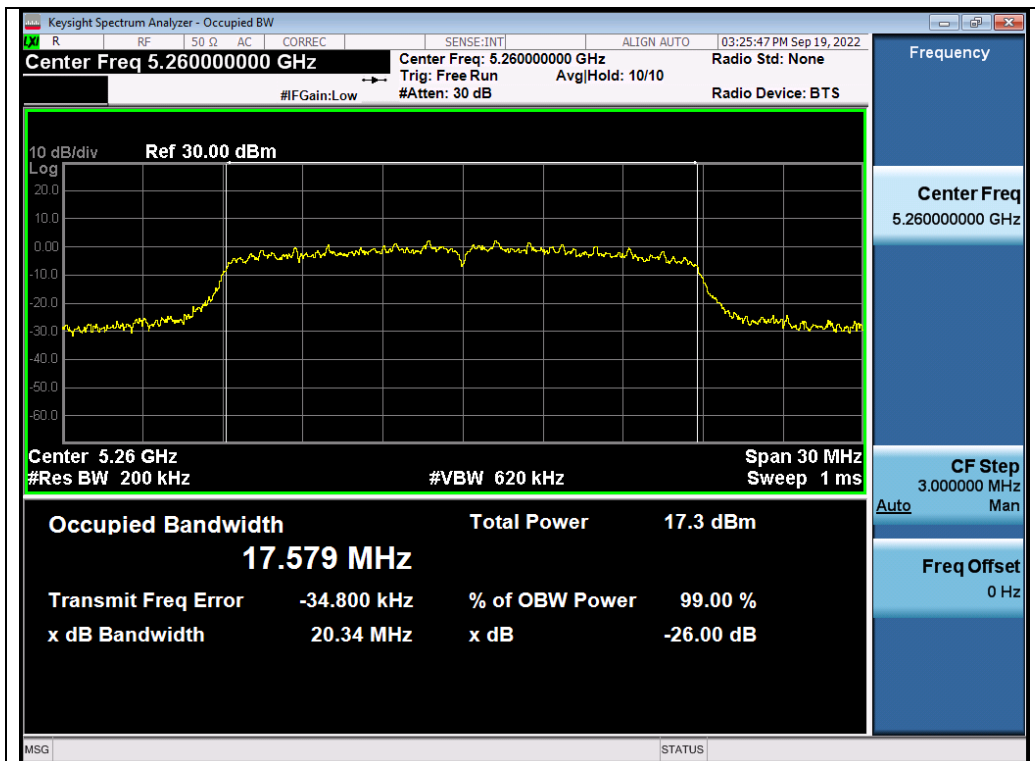


Test_Graph_802.11n40_ANT1_5270_MCS0_OBW

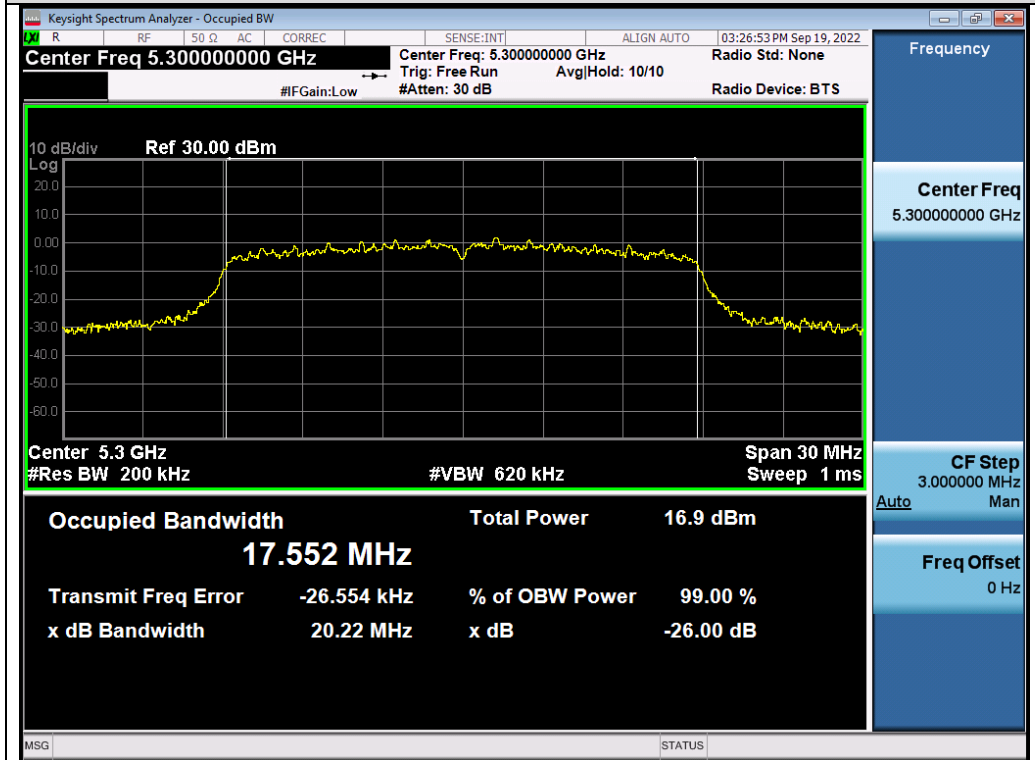


Test_Graph_802.11n40_ANT1_5310_MCS0_OBW

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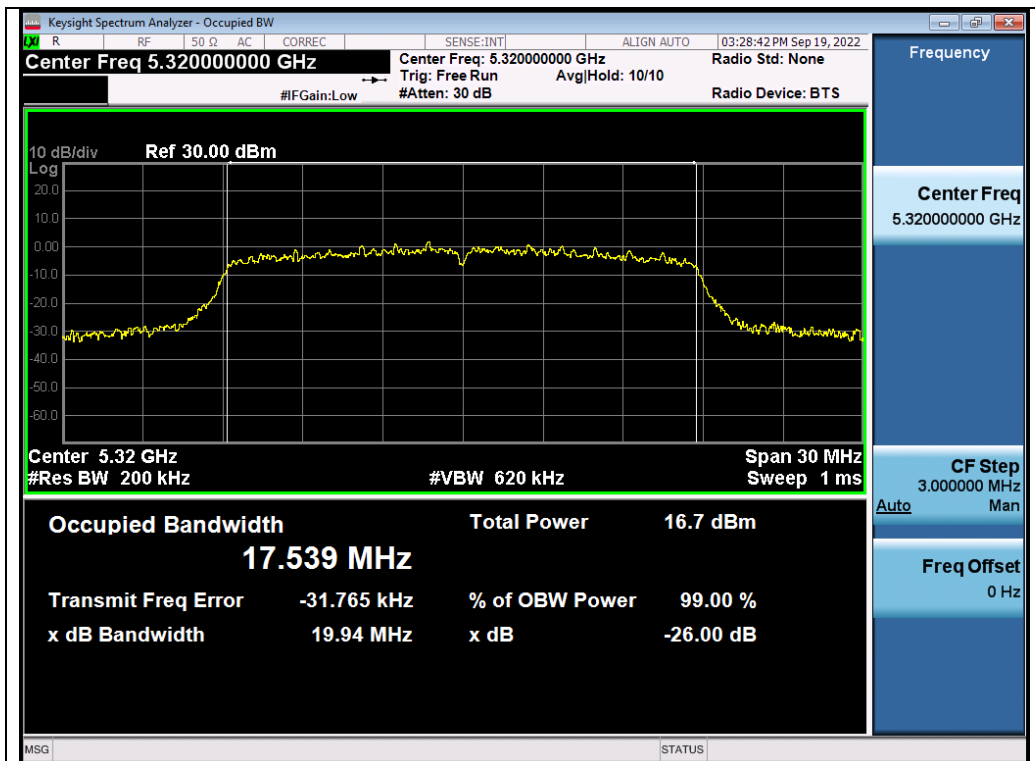


Test_Graph_802.11ac20_ANT1_5260_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5300_MCS0_OBW

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Test_Graph_802.11ac20_ANT1_5320_MCS9_OBW

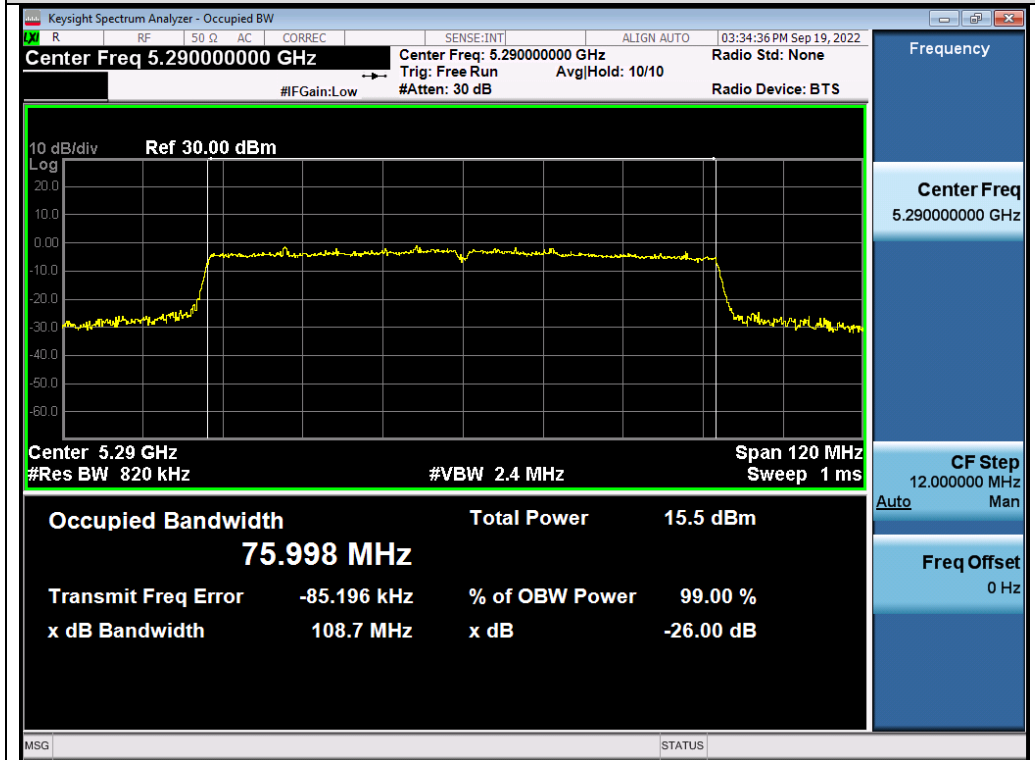


Test_Graph_802.11ac40_ANT1_5270_MCS9_OBW

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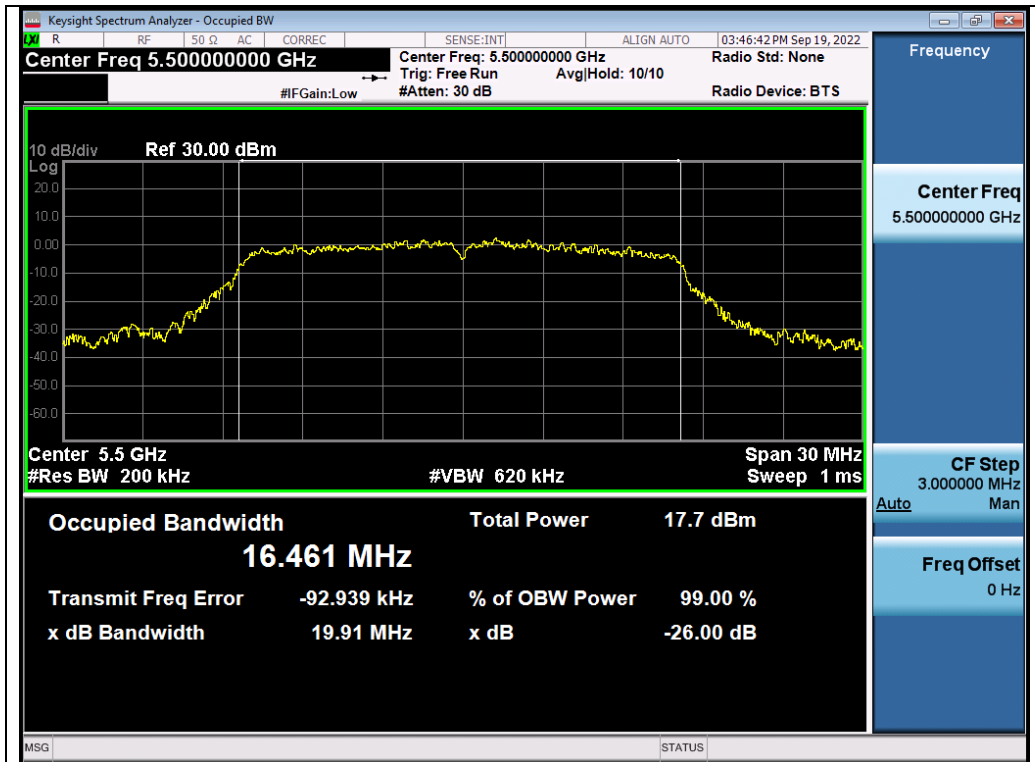
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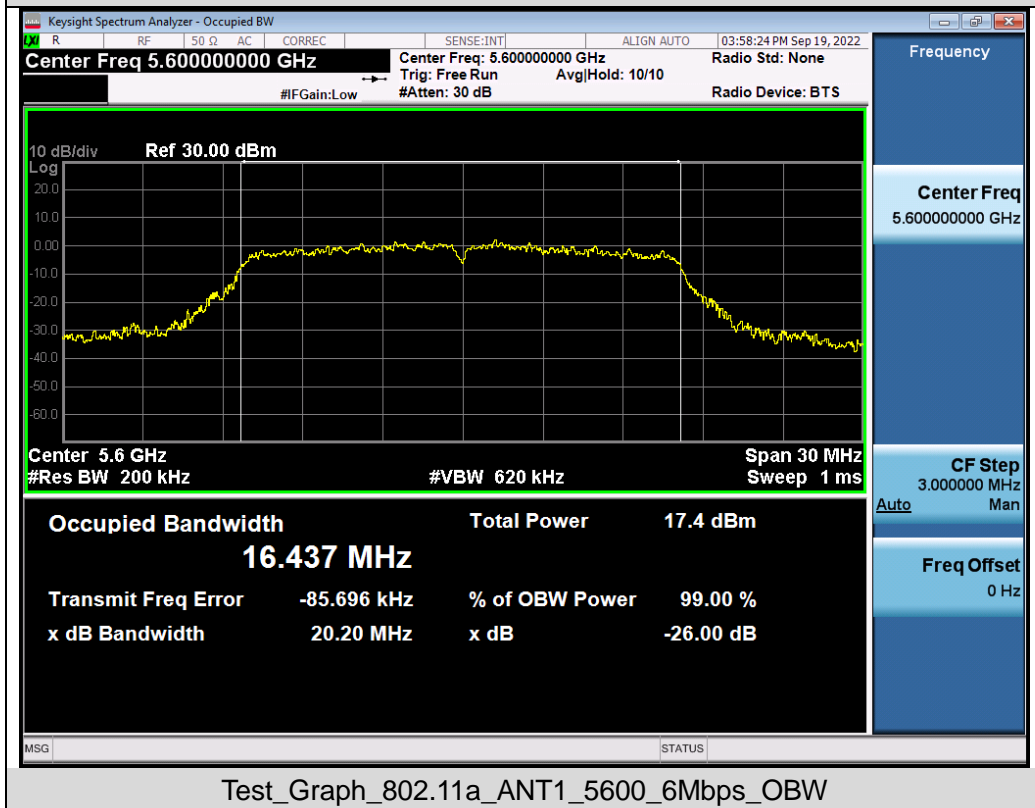
Test_Graph_802.11ac80_ANT1_5290_MCS9_OBW

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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.470-5.725 GHz

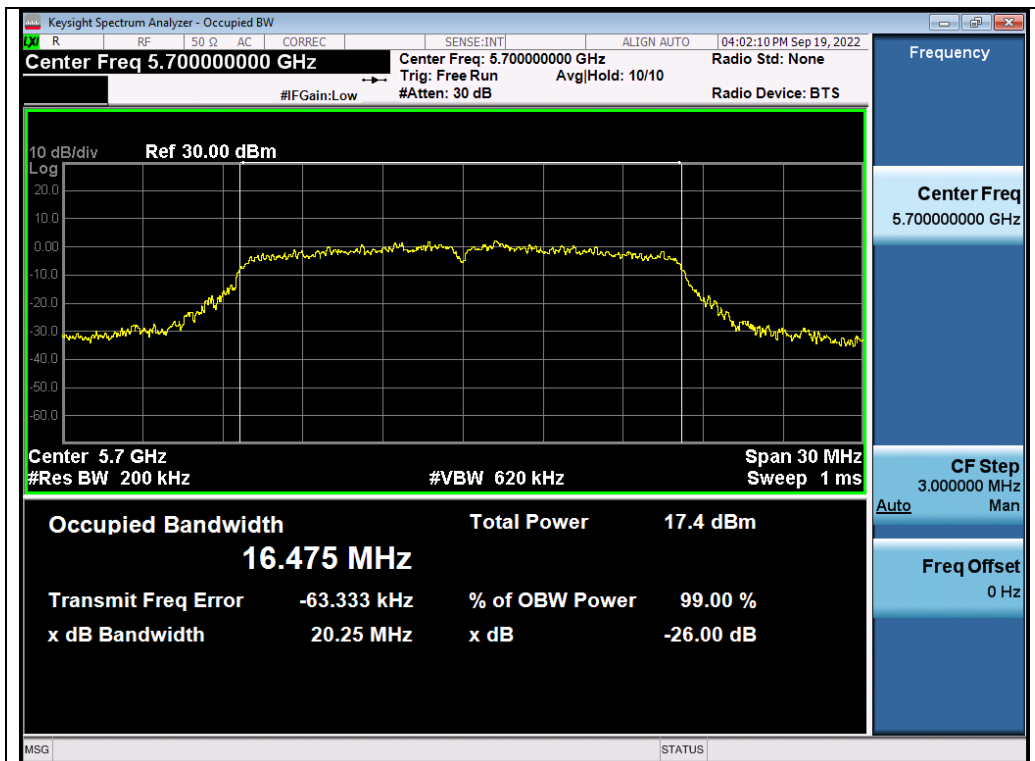


Test_Graph_802.11a_ANT1_5500_6Mbps_OBW

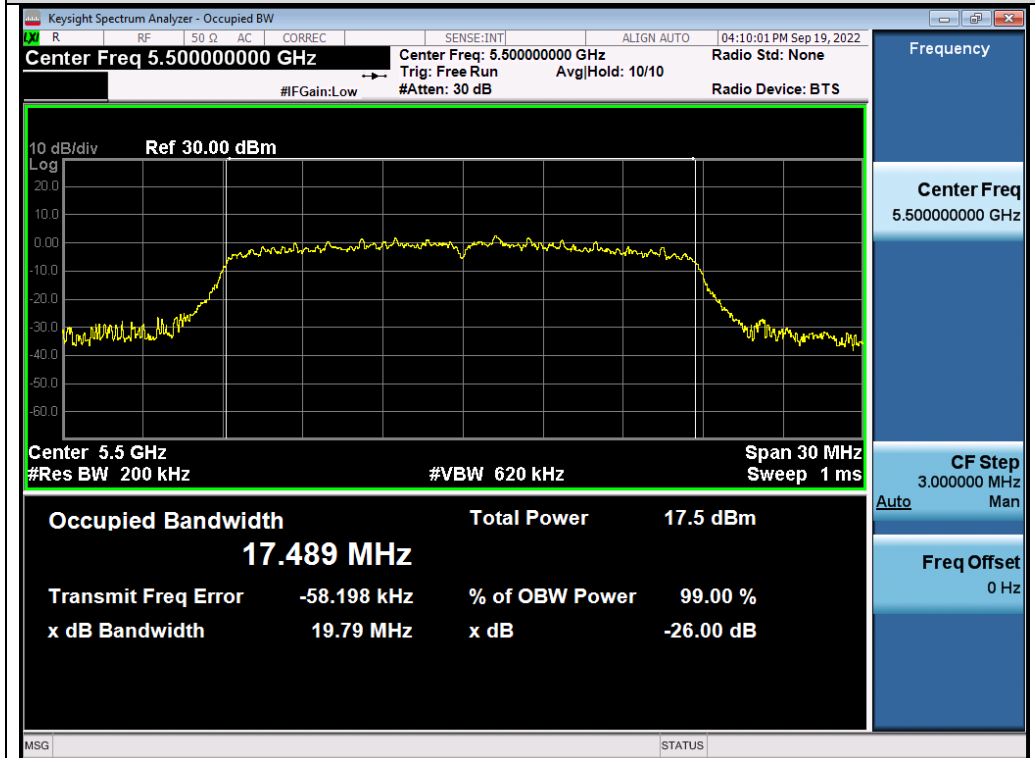


Test_Graph_802.11a_ANT1_5600_6Mbps_OBW

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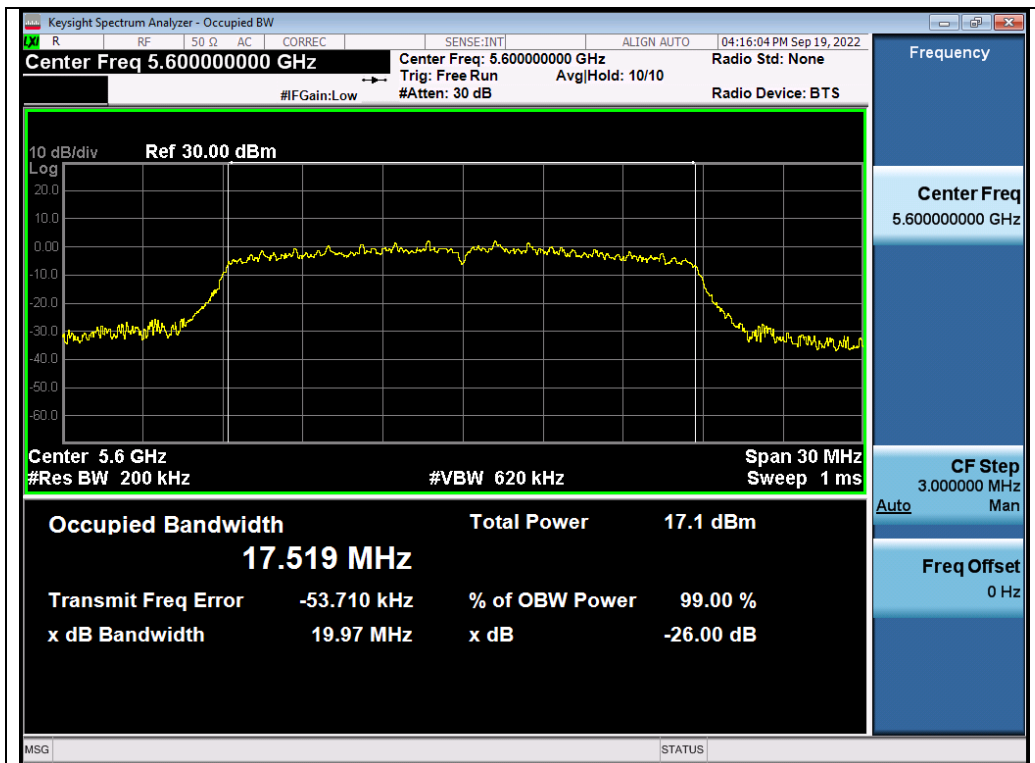


Test_Graph_802.11a_ANT1_5700_6Mbps_OBW

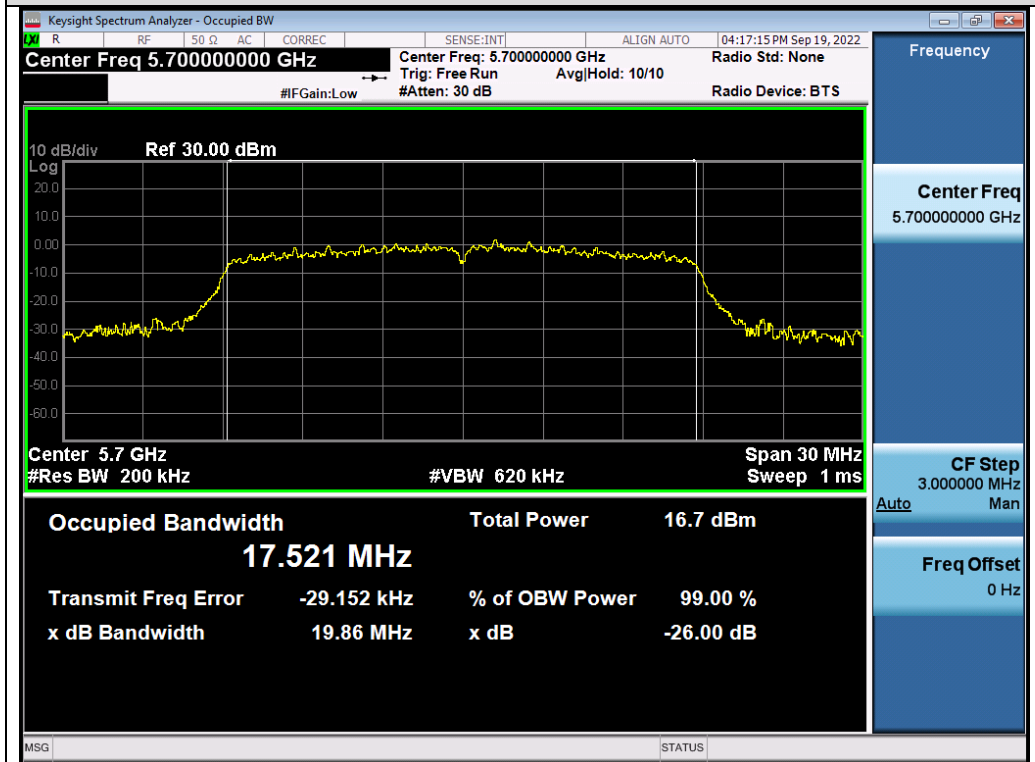


Test_Graph_802.11n20_ANT1_5500_MCS0_OBW

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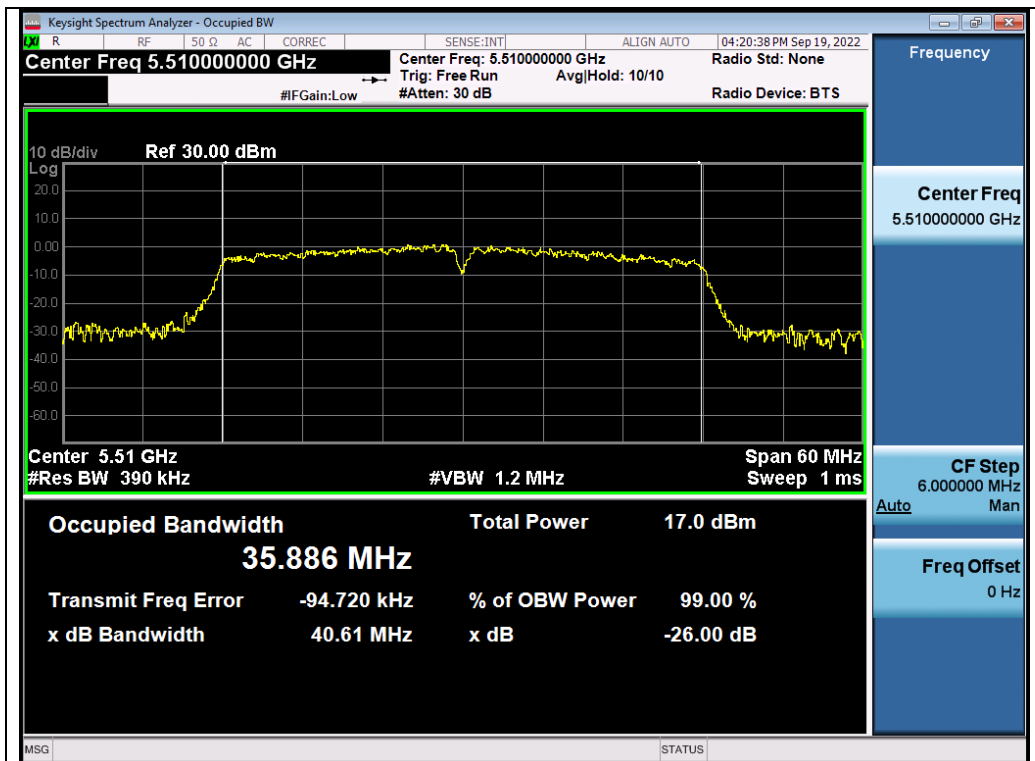


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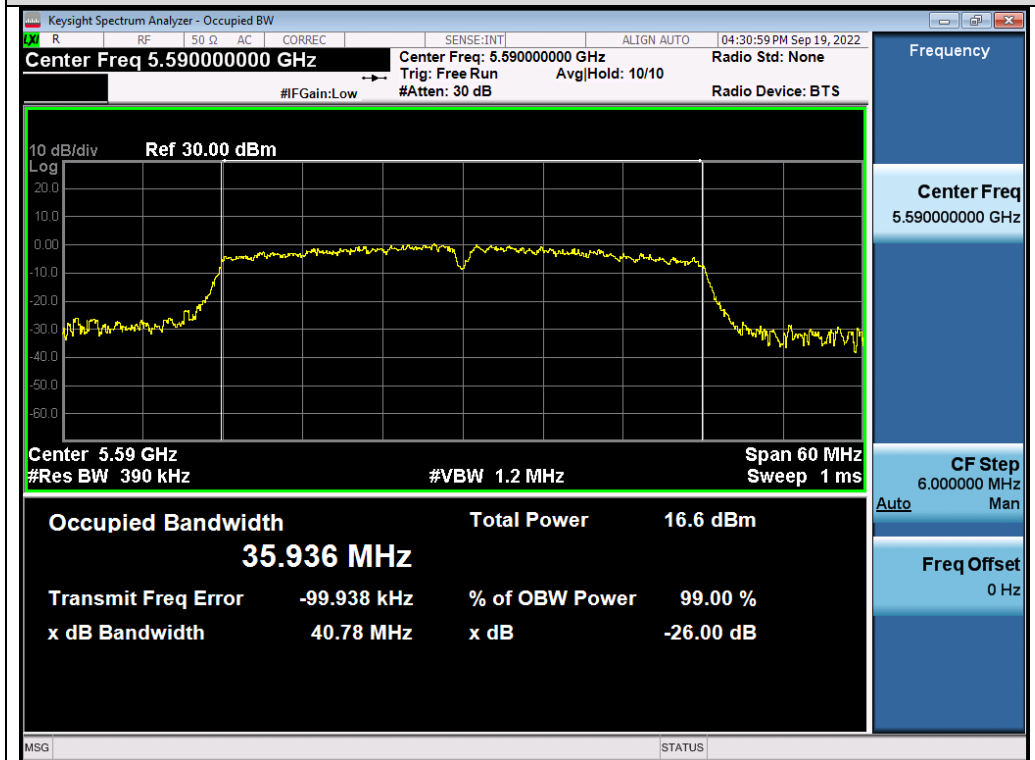


Test_Graph_802.11n20_ANT1_5700_MCS0_OBW

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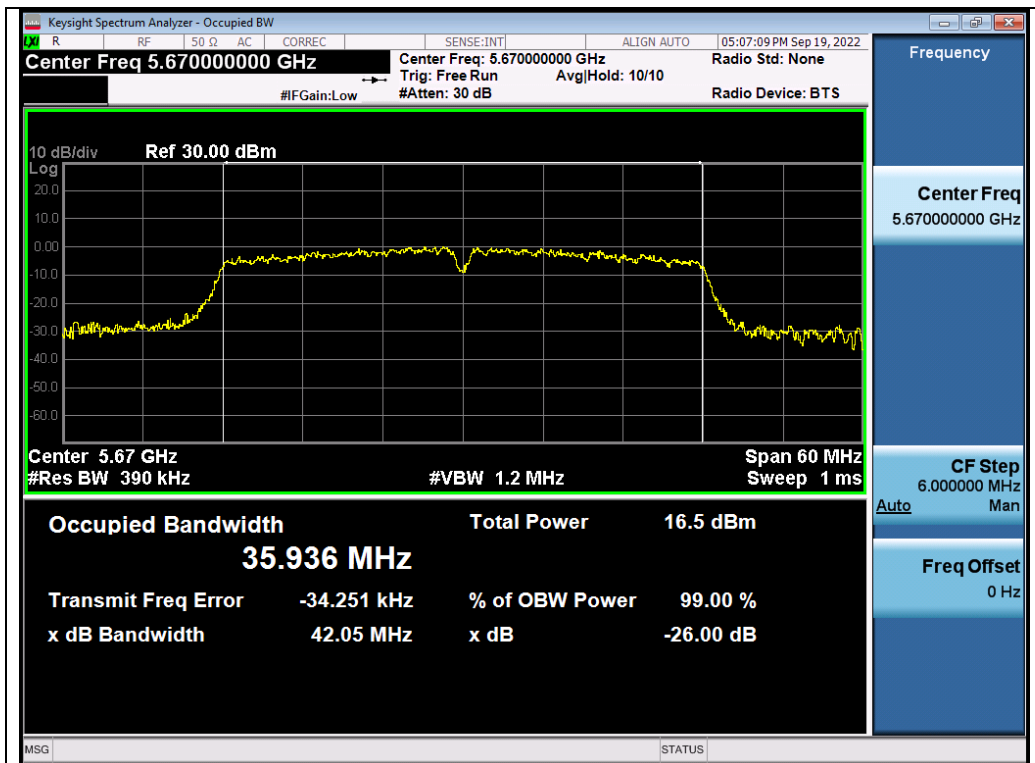


Test_Graph_802.11n40_ANT1_5510_MCS0_OBW

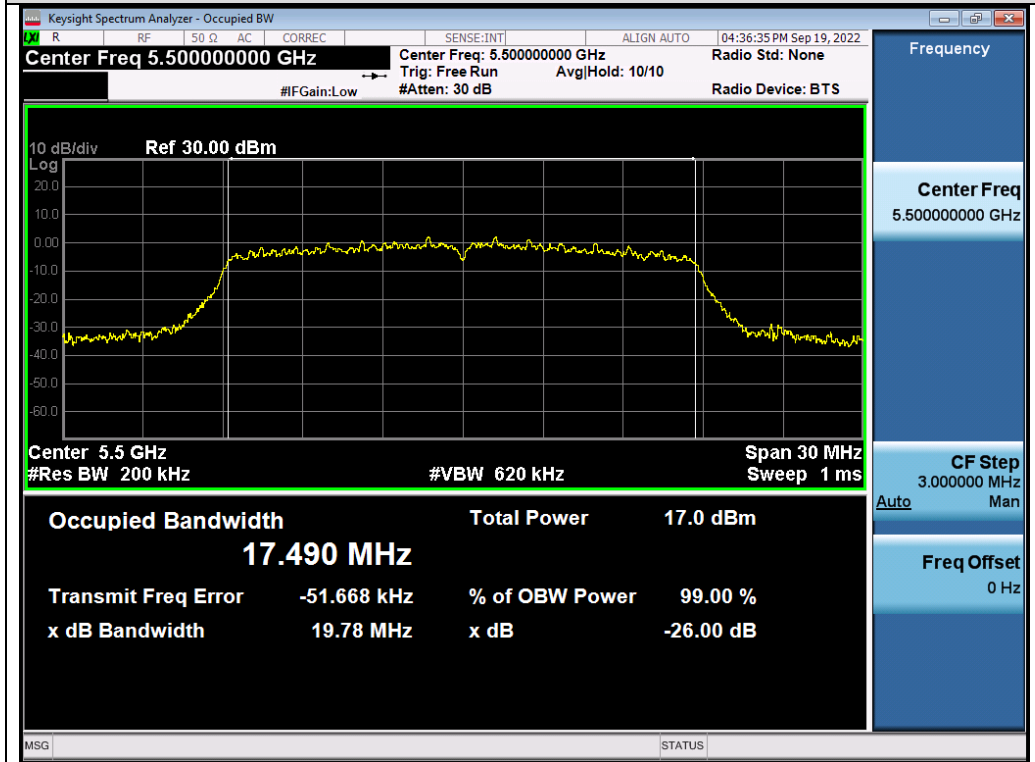


Test_Graph_802.11n40_ANT1_5590_MCS0_OBW

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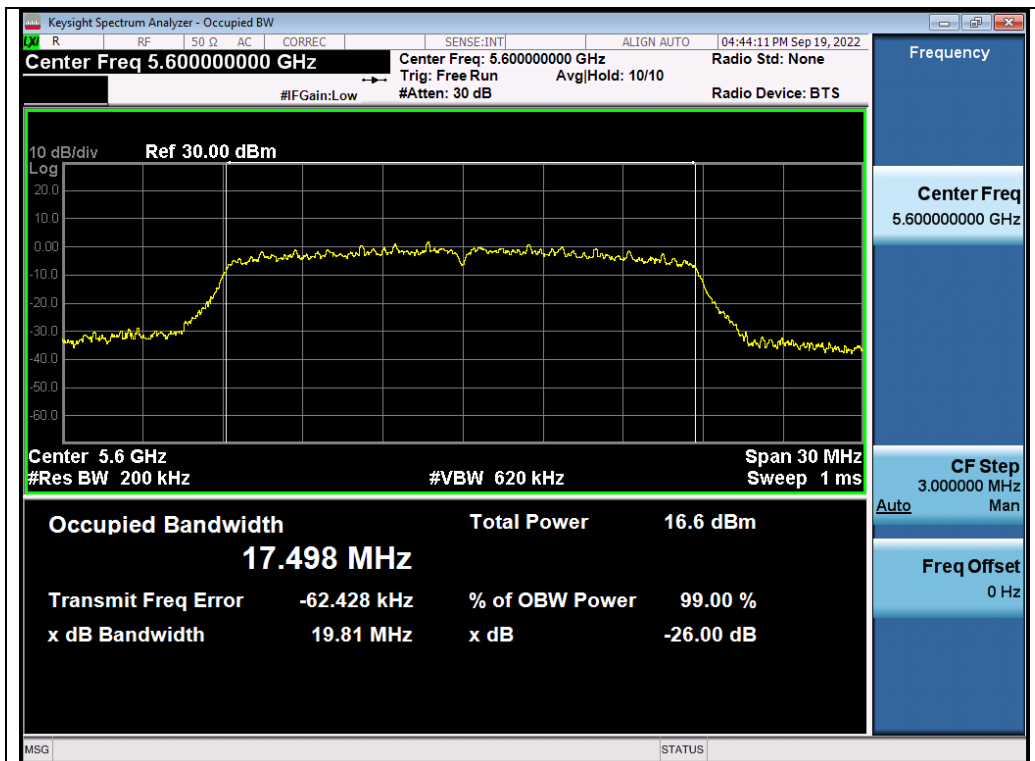


Test_Graph_802.11n40_ANT1_5670_MCS0_OBW

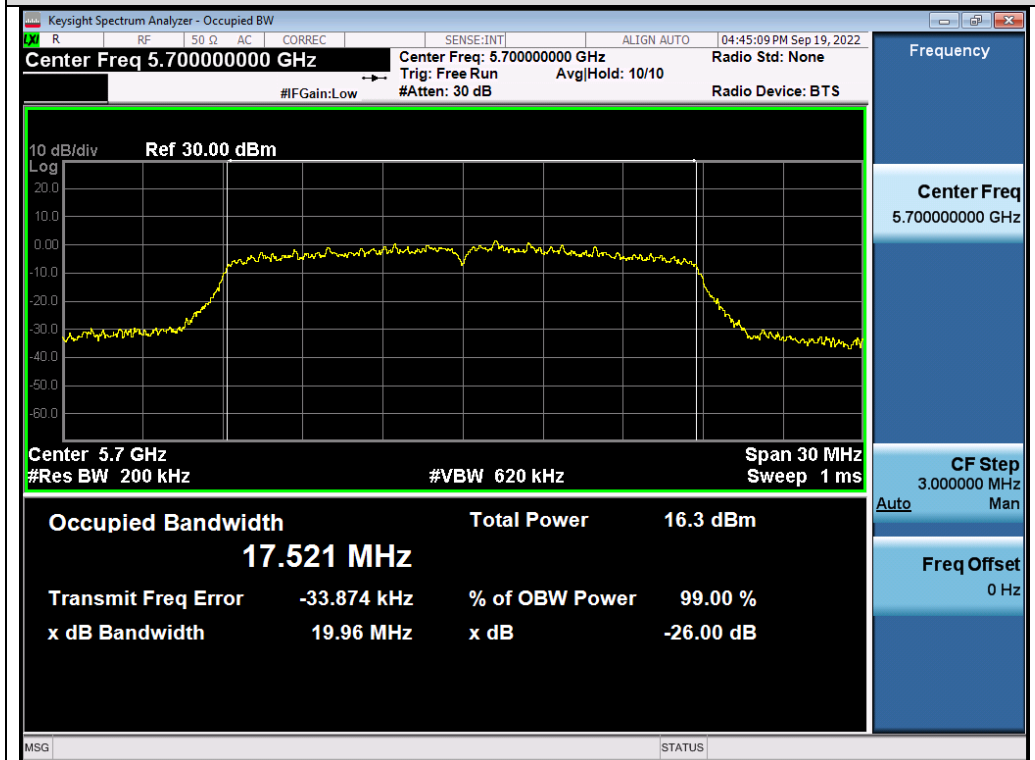


Test_Graph_802.11ac20_ANT1_5500_MCS0_OBW

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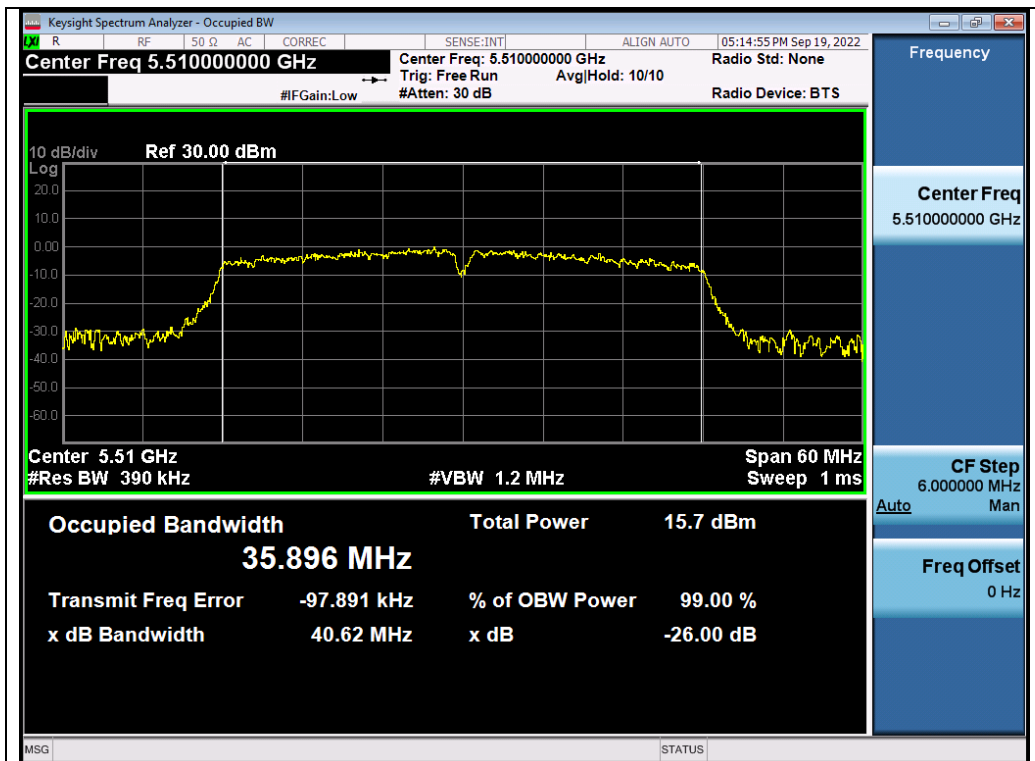


Test_Graph_802.11ac20_ANT1_5600_MCS0_OBW

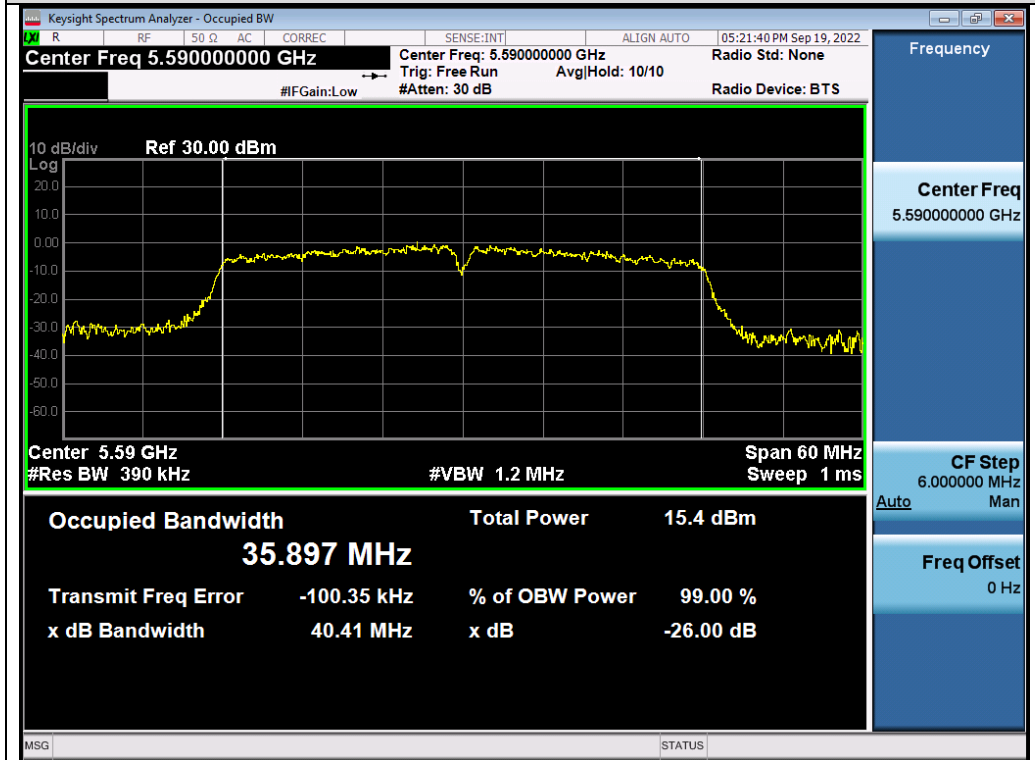


Test_Graph_802.11ac20_ANT1_5700_MCS9_OBW

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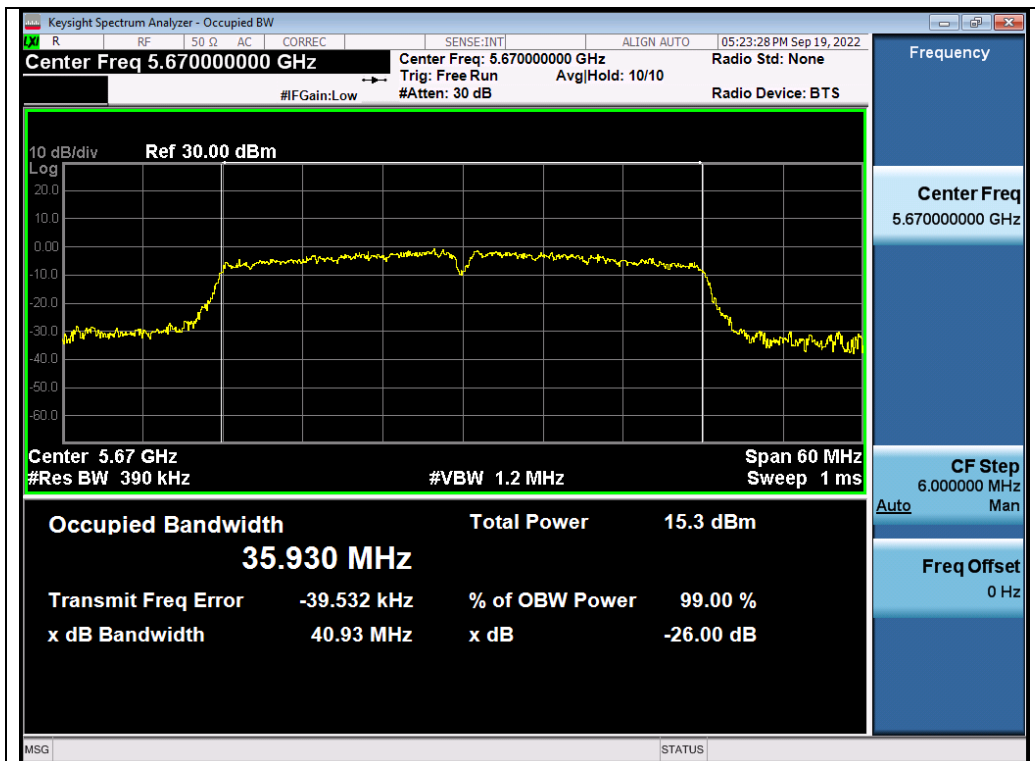


Test_Graph_802.11ac40_ANT1_5510_MCS9_OBW

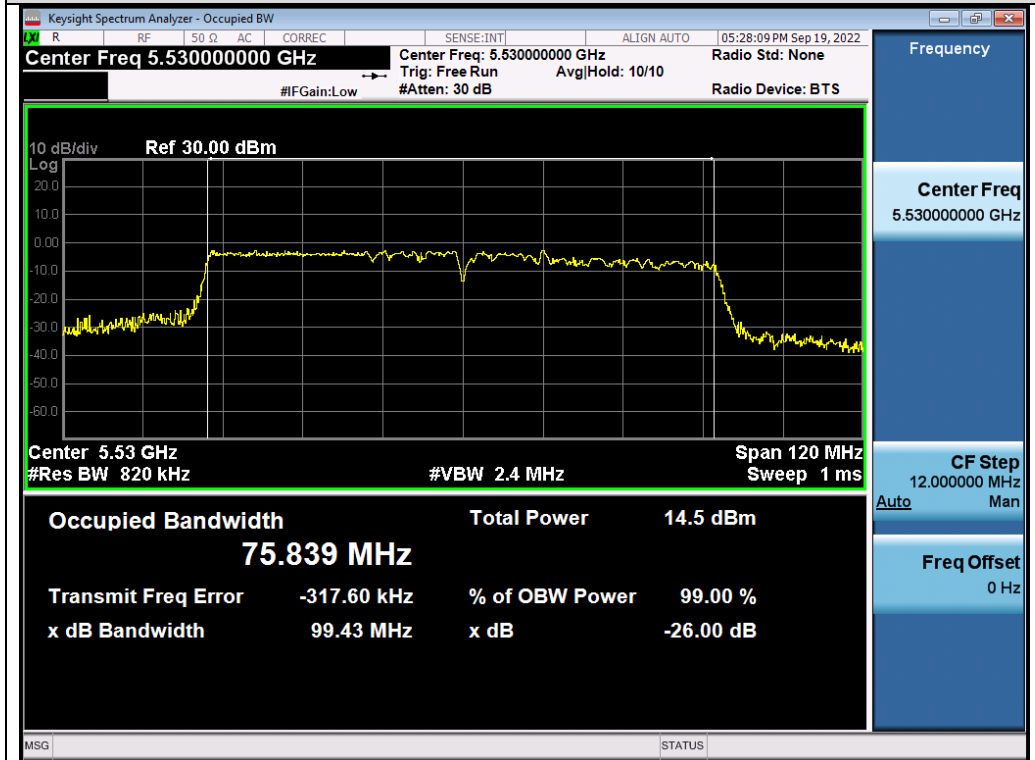


Test_Graph_802.11ac40_ANT1_5590_MCS9_OBW

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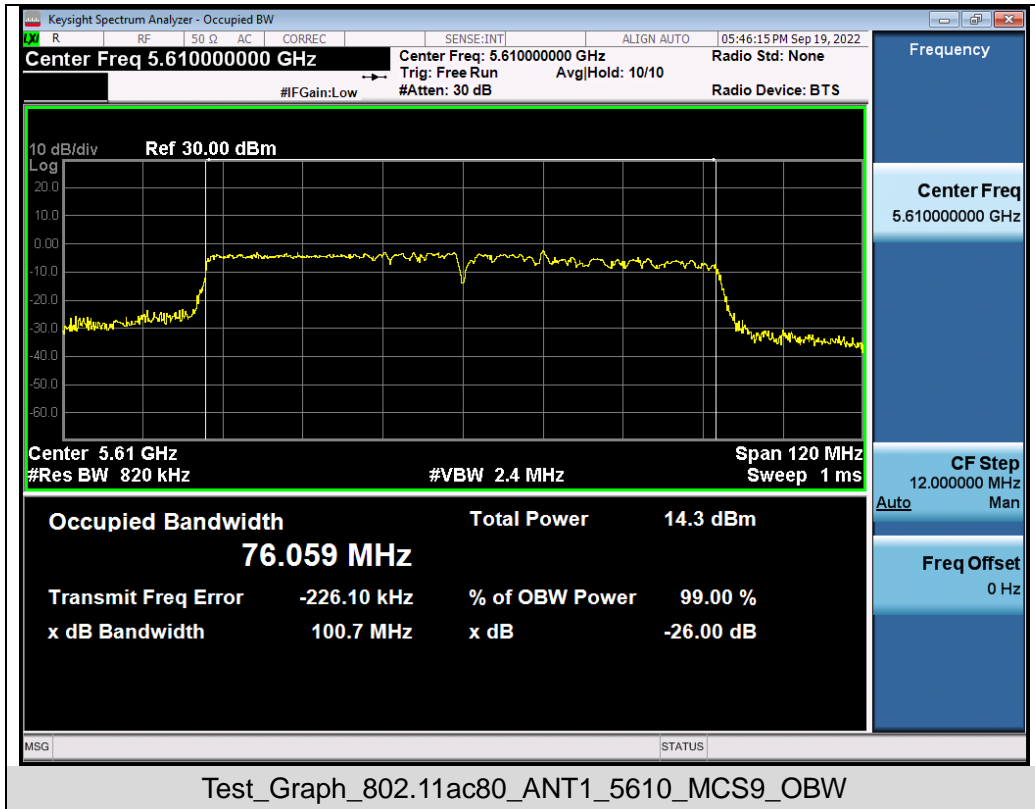


Test_Graph_802.11ac40_ANT1_5670_MCS9_OBW



Test_Graph_802.11ac80_ANT1_5530_MCS9_OBW

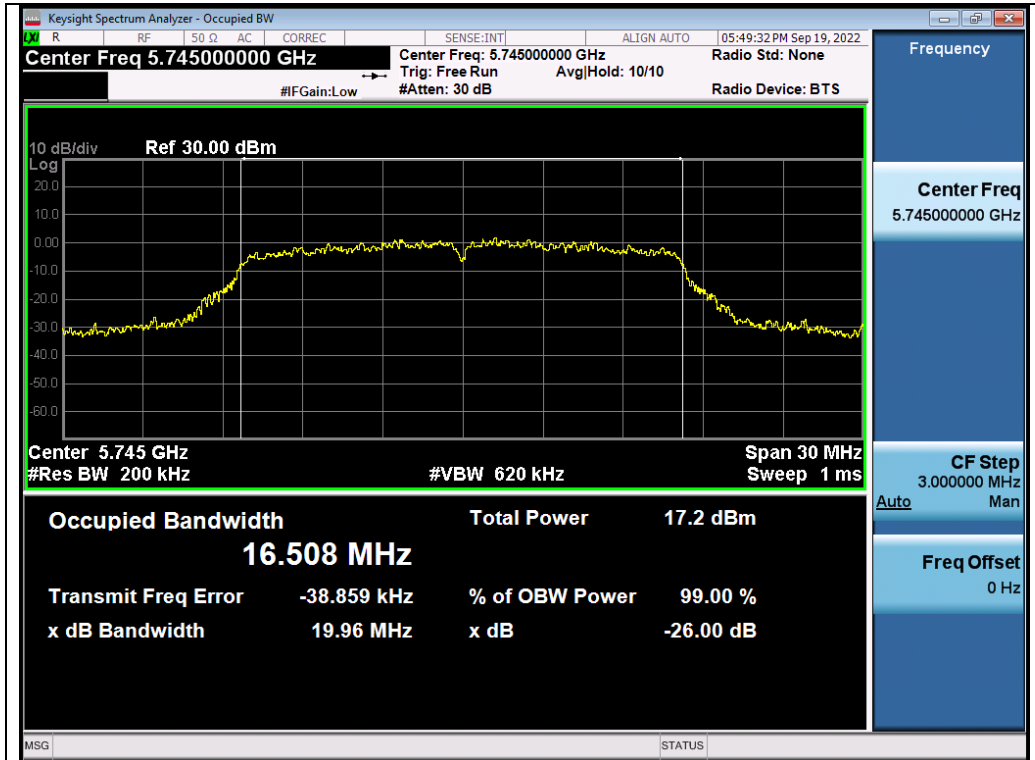
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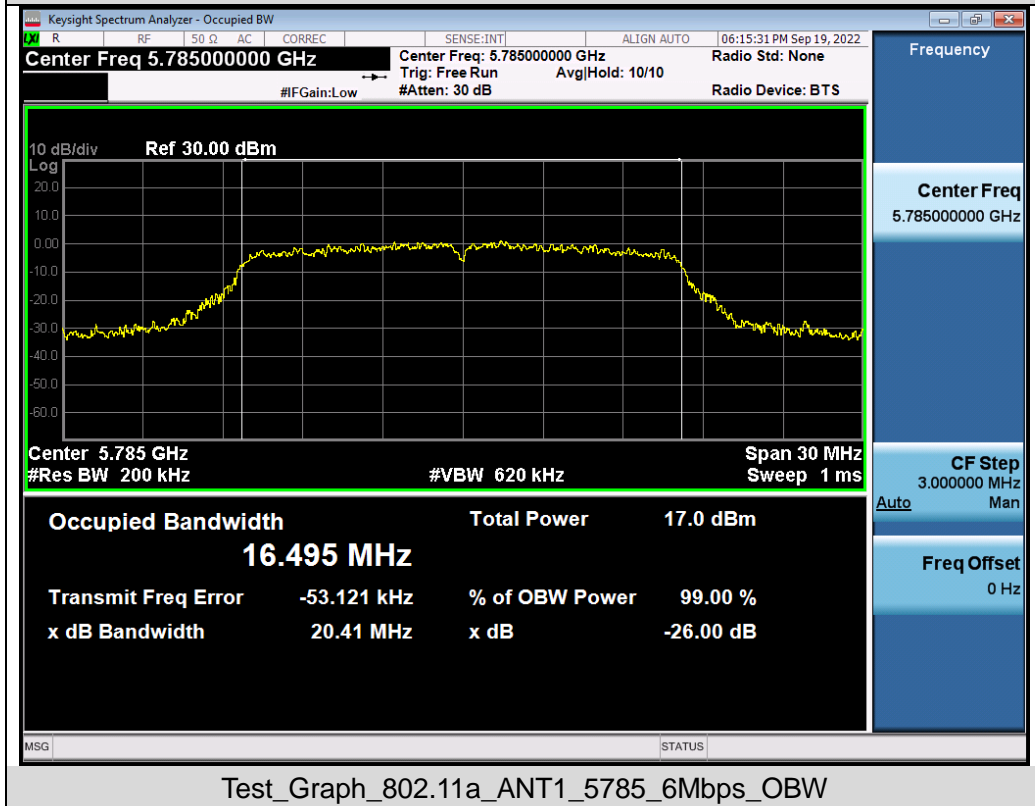
Test_Graph_802.11ac80_ANT1_5610_MCS9_OBW

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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz

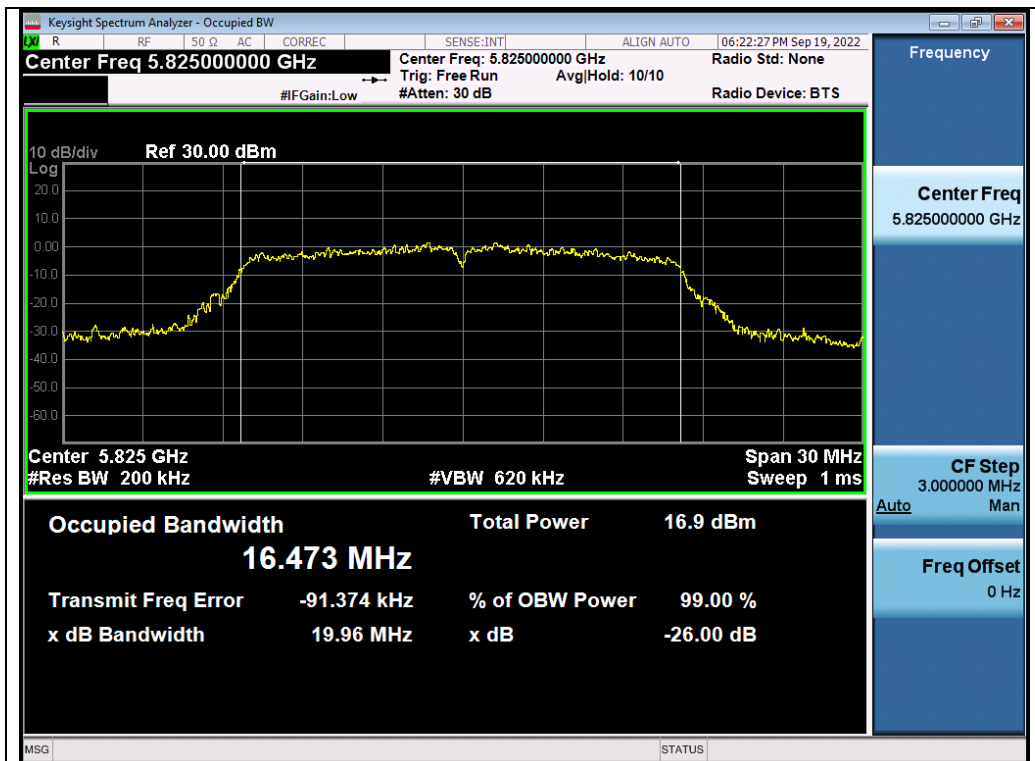


Test_Graph_802.11a_ANT1_5745_6Mbps_OBW

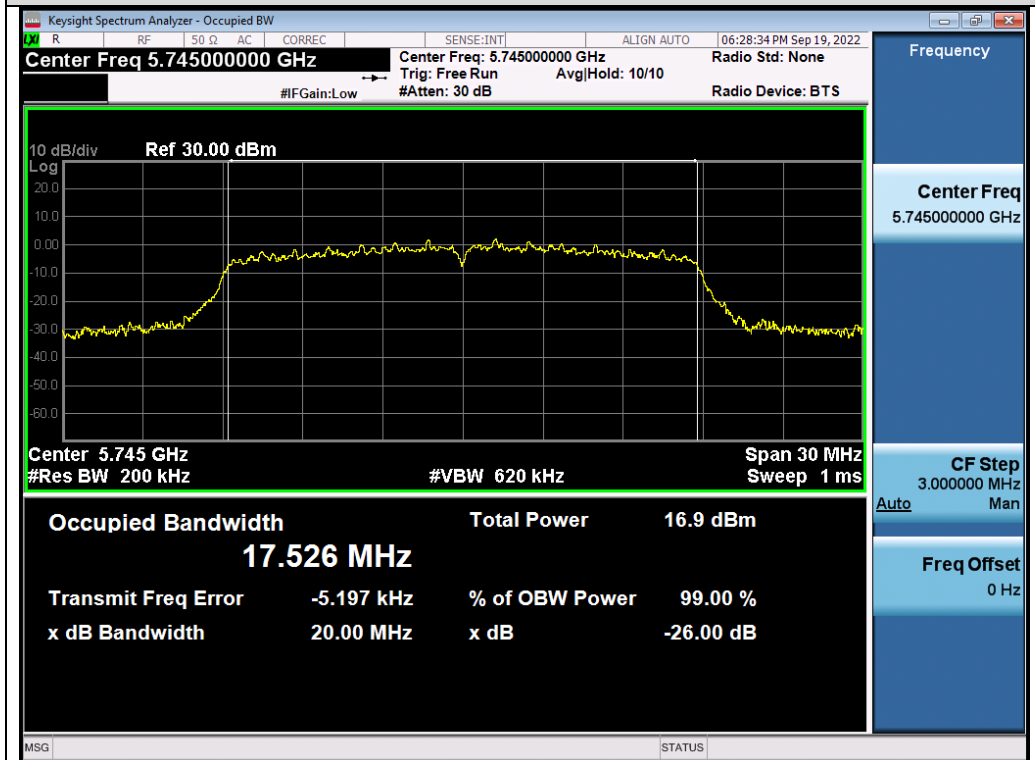


Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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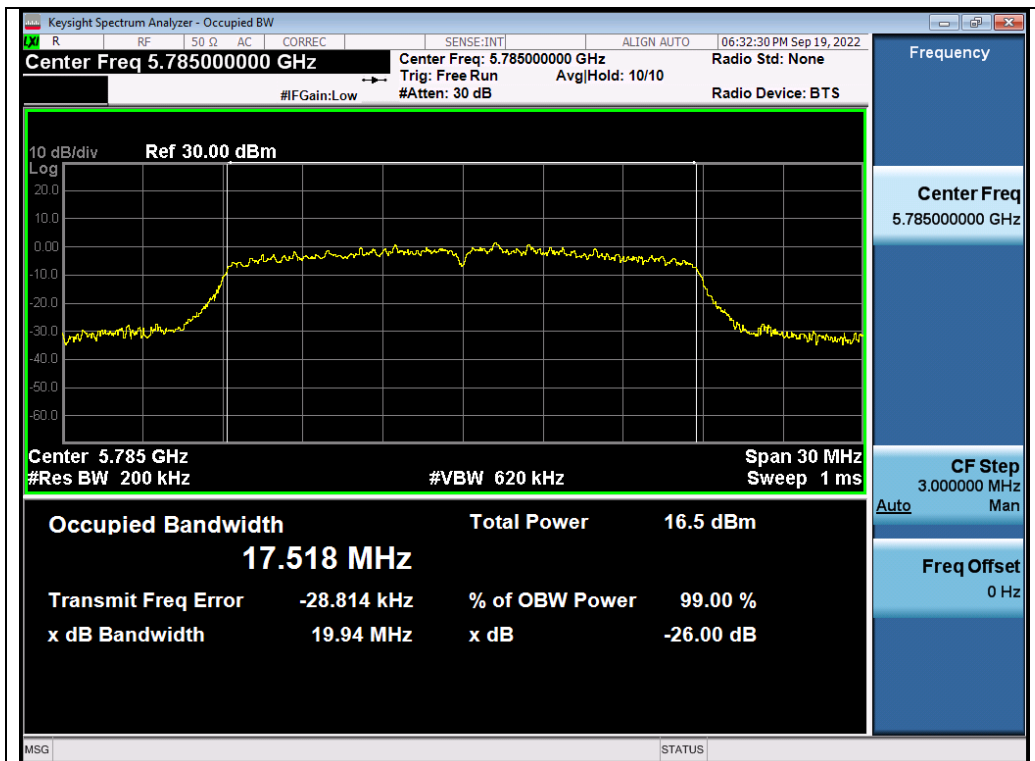


Test_Graph_802.11a_ANT1_5825_6Mbps_OBW

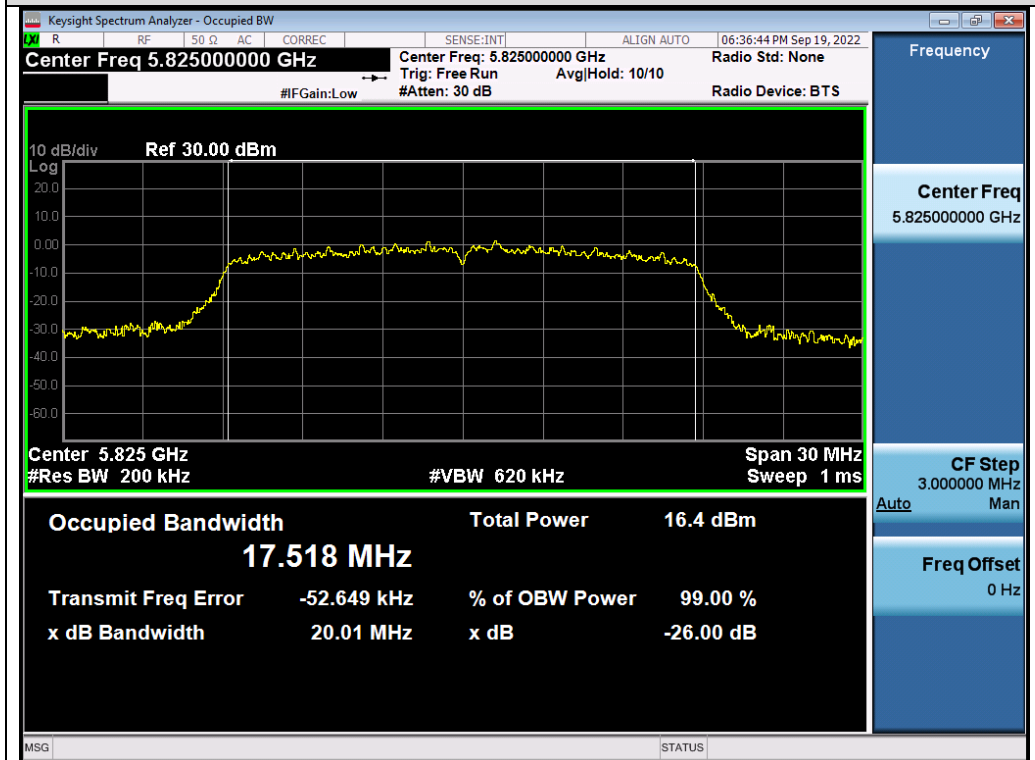


Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

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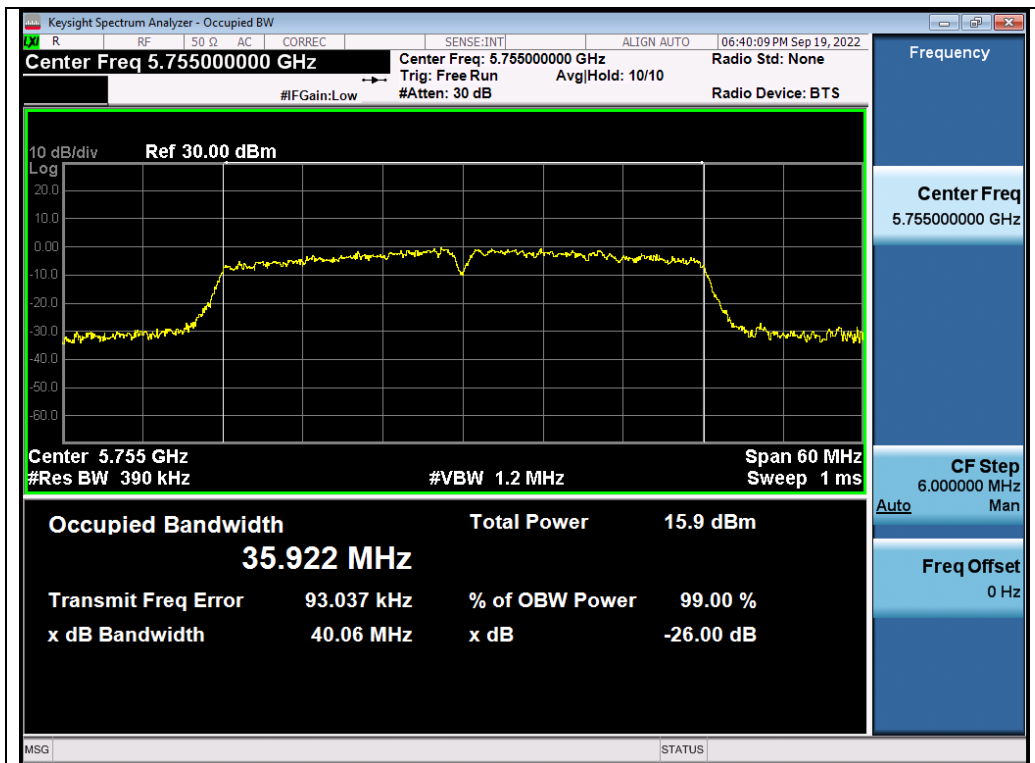


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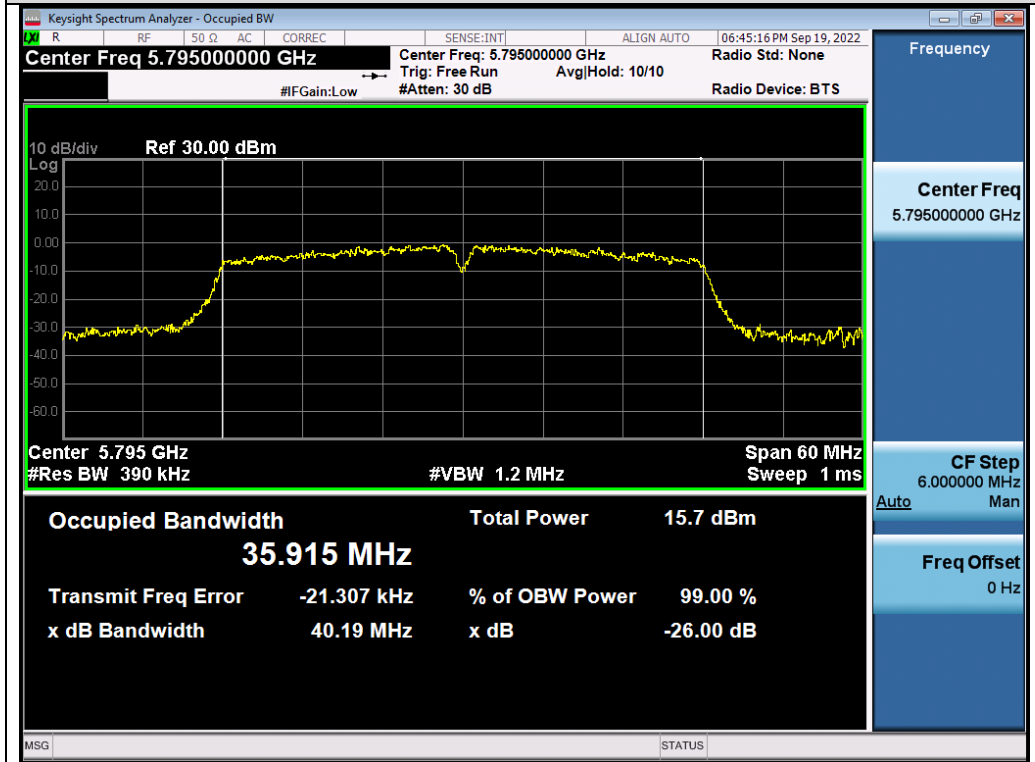


Test_Graph_802.11n20_ANT1_5825_MCS0_OBW

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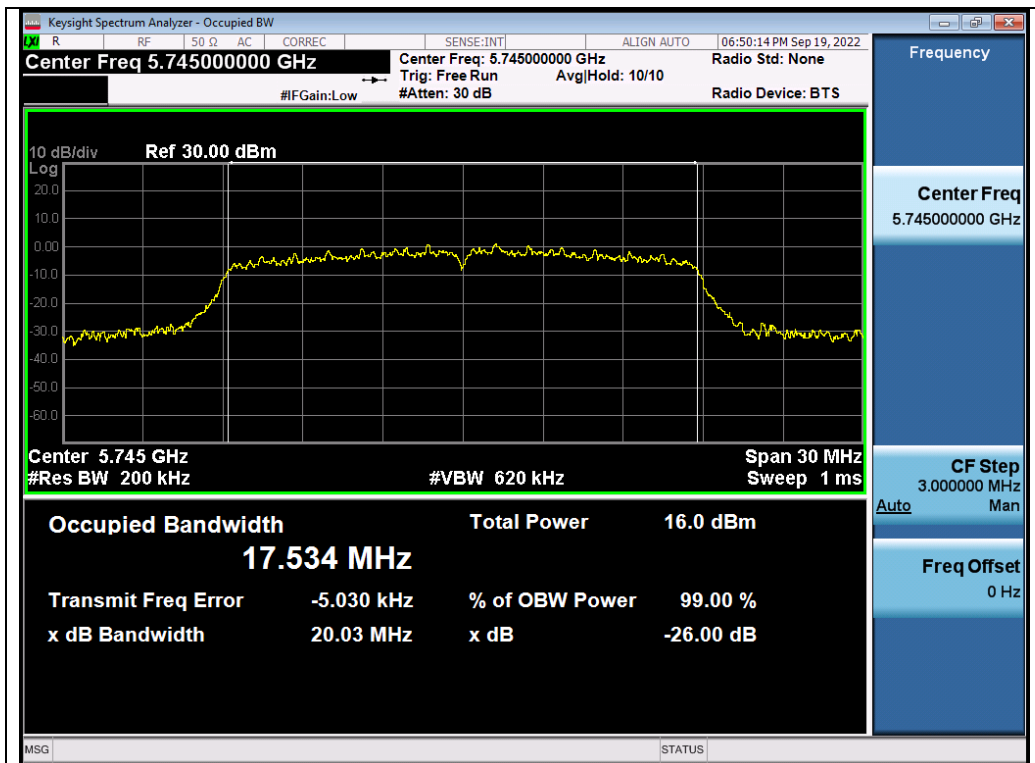


Test_Graph_802.11n40_ANT1_5755_MCS0_OBW

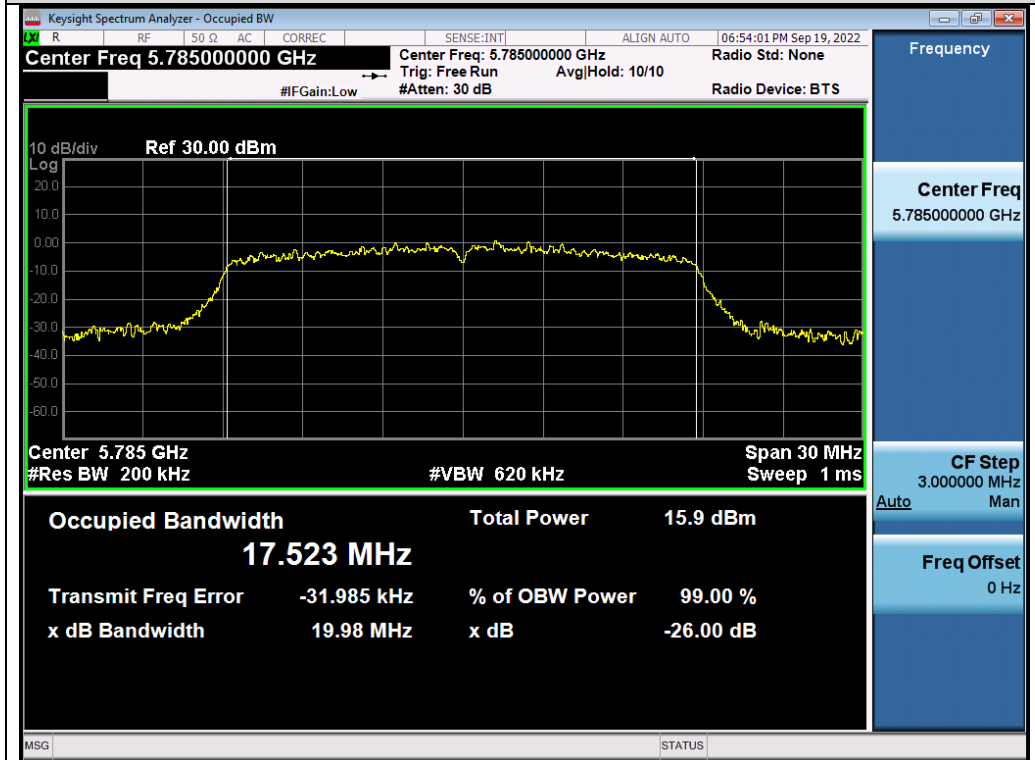


Test_Graph_802.11n40_ANT1_5795_MCS0_OBW

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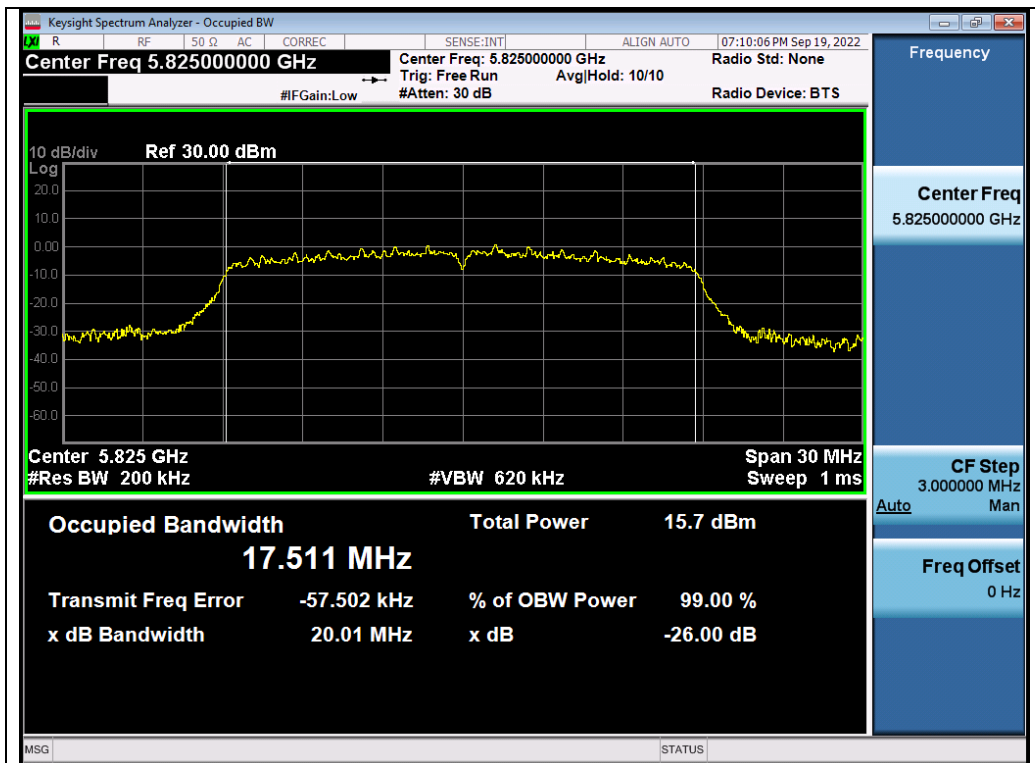


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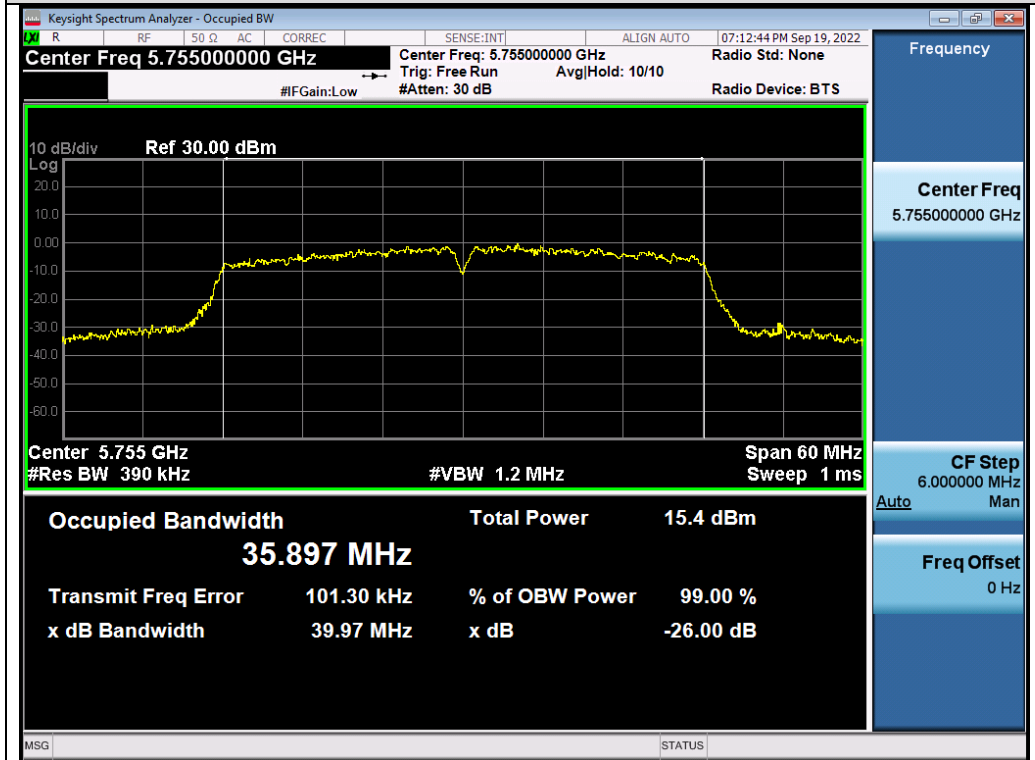


Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW

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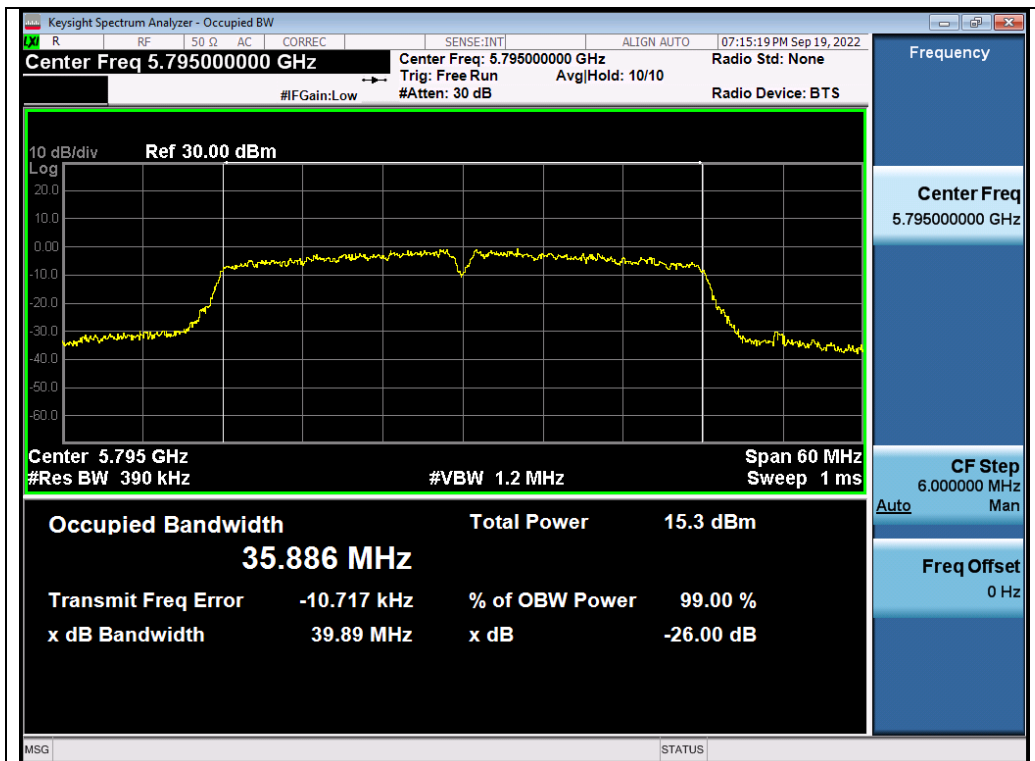


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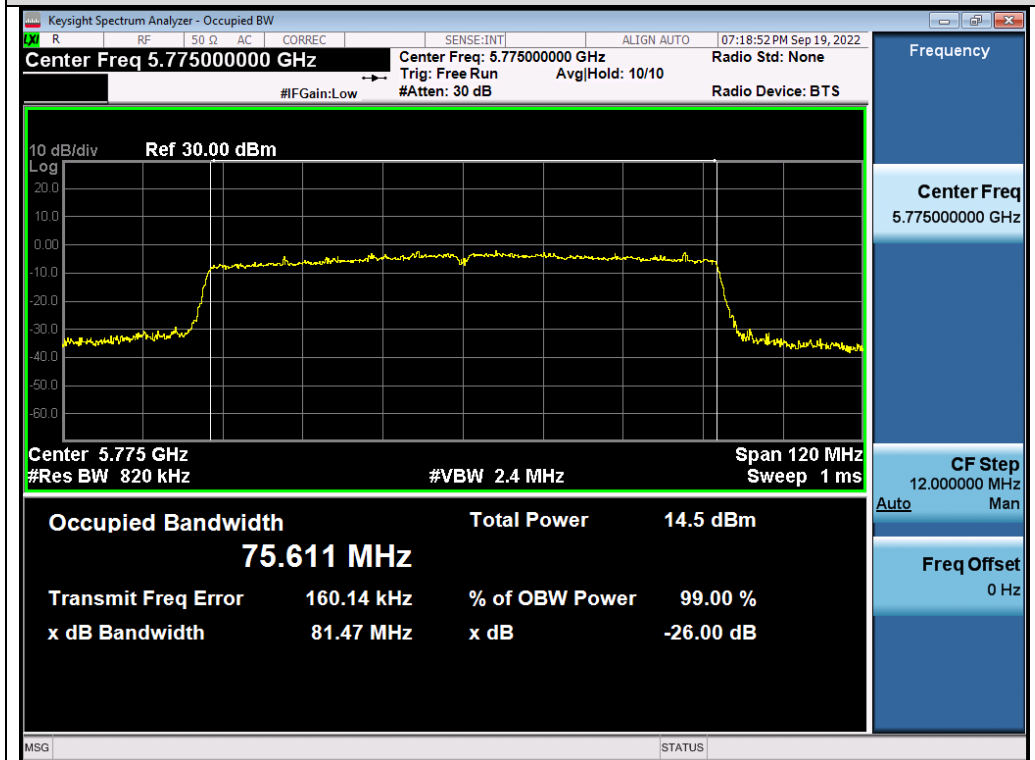


Test_Graph_802.11ac40_ANT1_5755_MCS9_OBW

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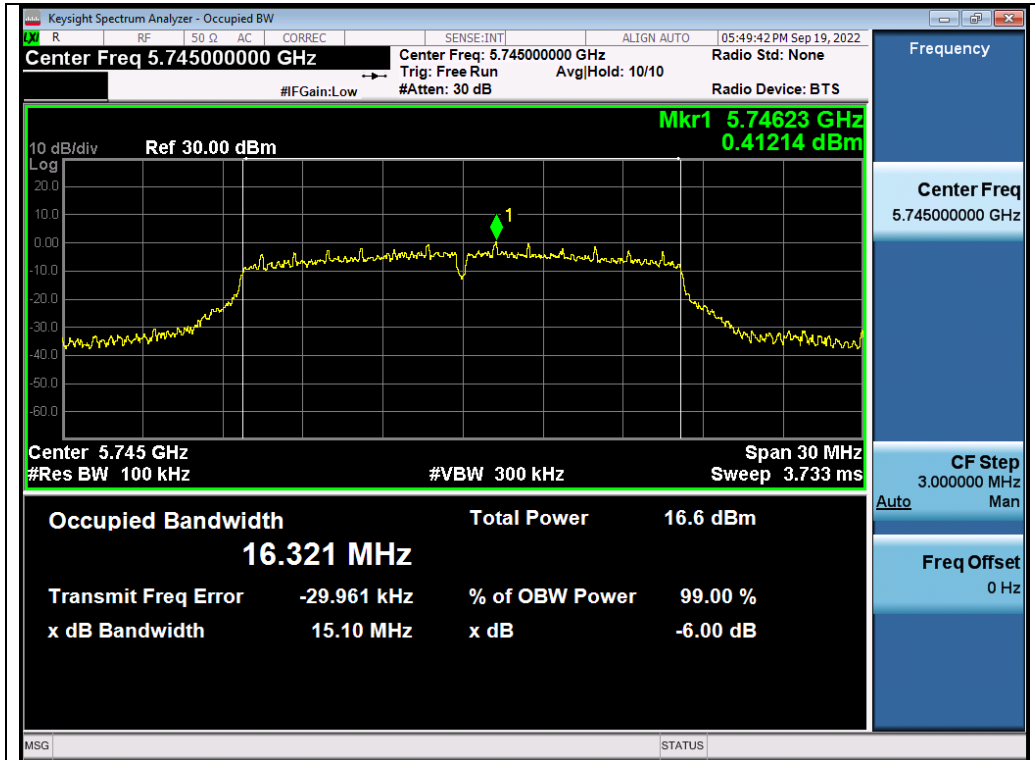
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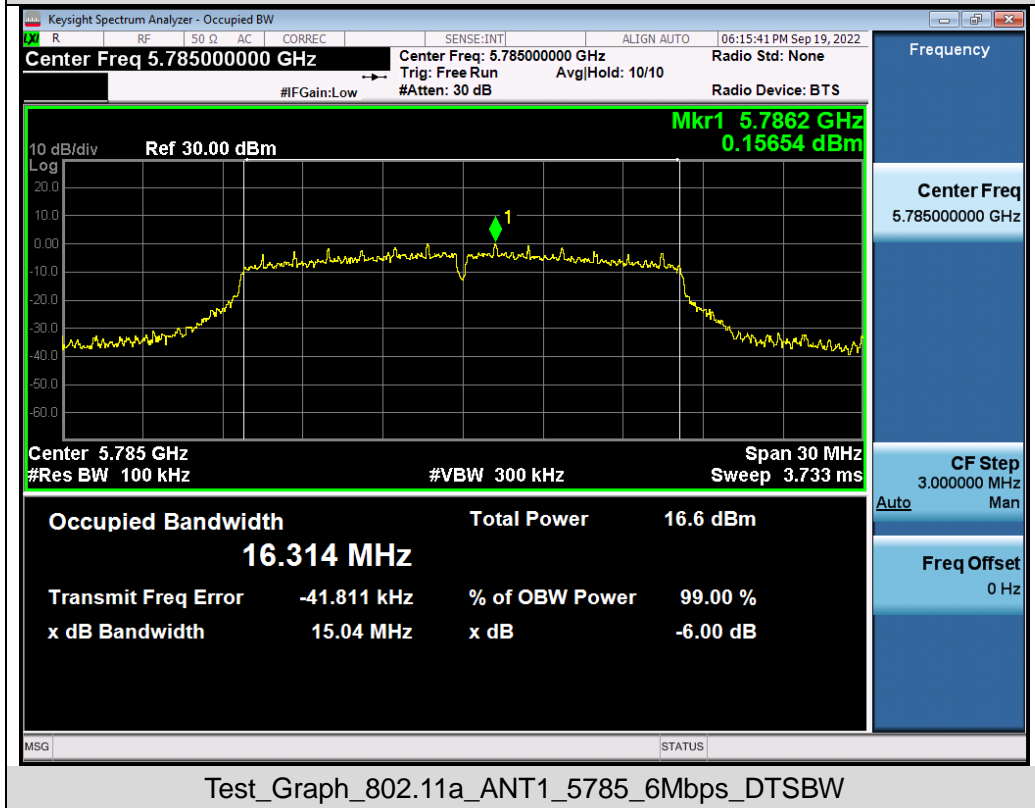
Test_Graph_802.11ac80_ANT1_5775_MCS9_OBW

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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

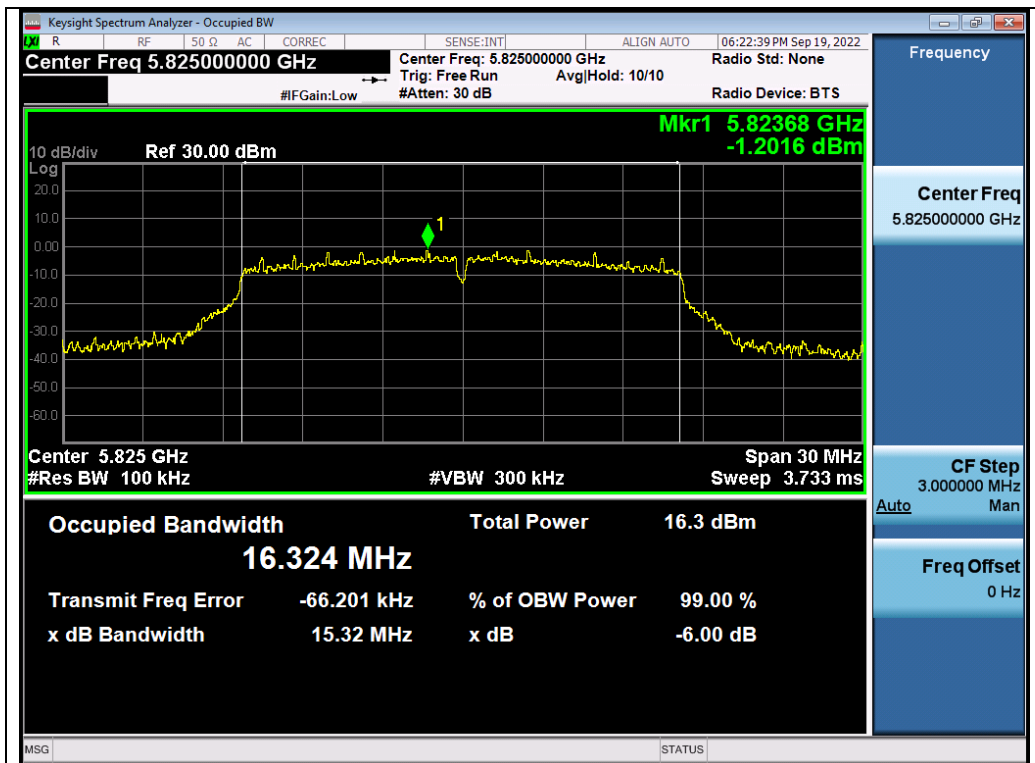


Test_Graph_802.11a_ANT1_5745_6Mbps_DTBSW

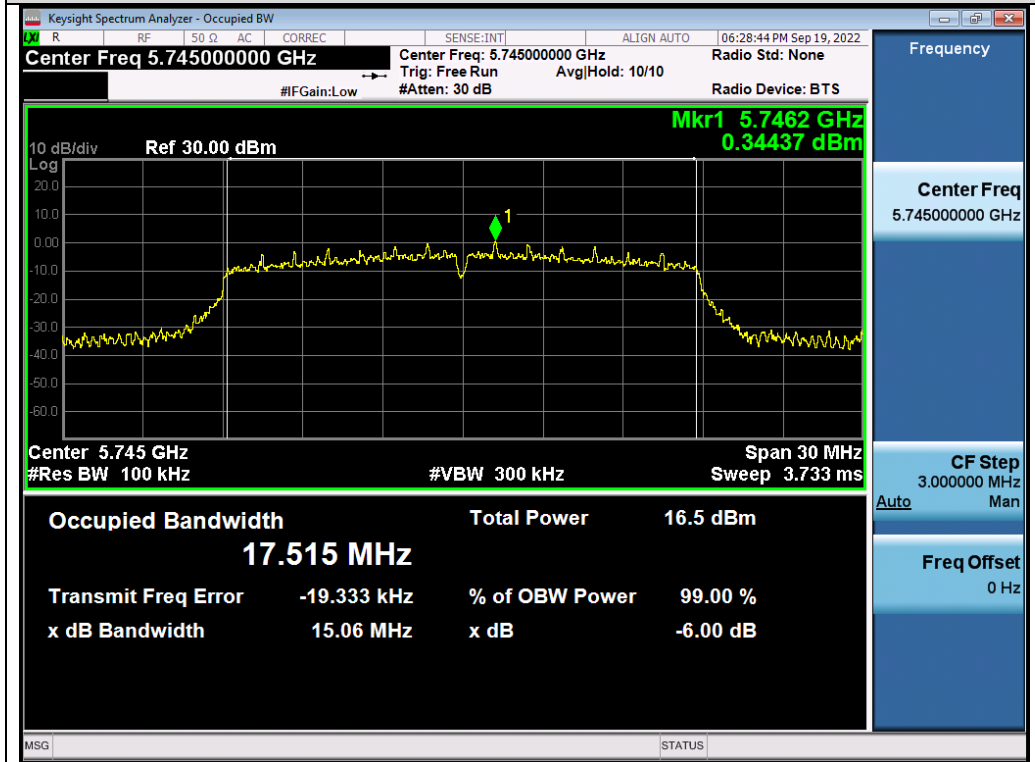


Test_Graph_802.11a_ANT1_5785_6Mbps_DTBSW

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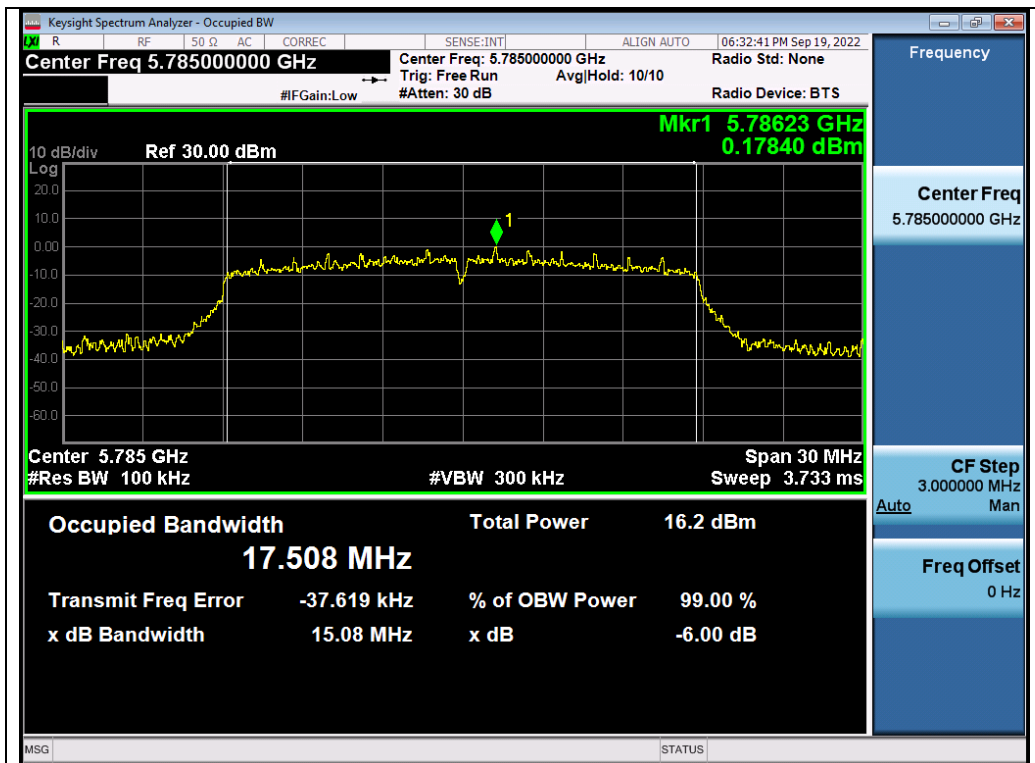


Test_Graph_802.11a_ANT1_5825_6Mbps_DTSBW



Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW

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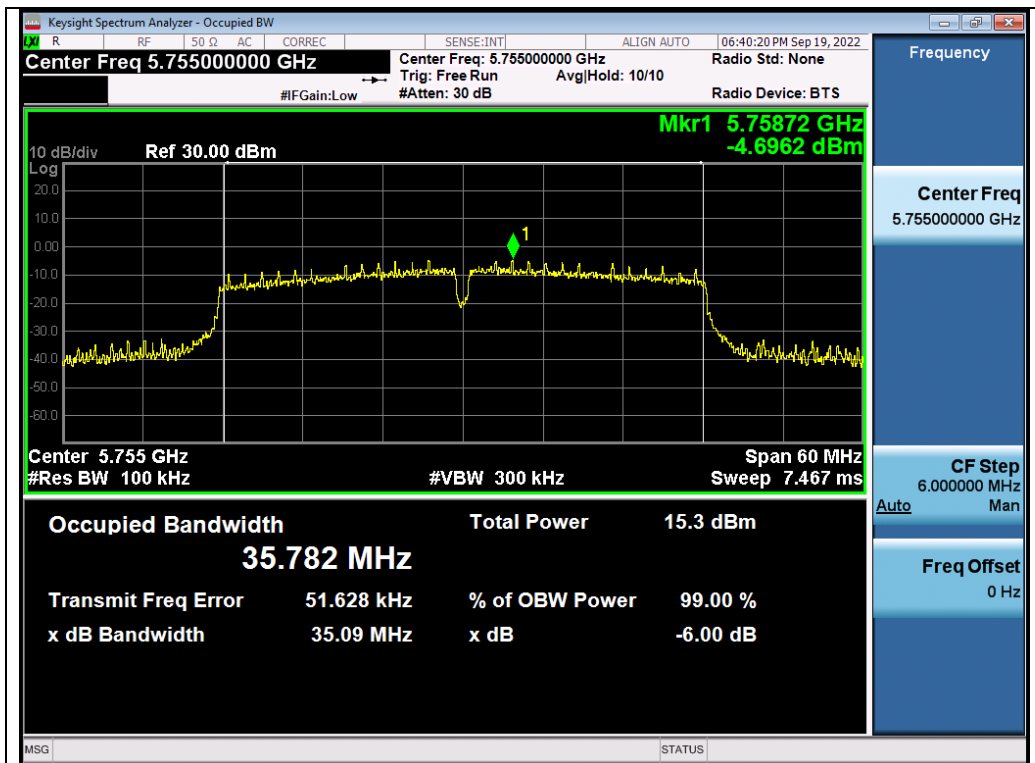


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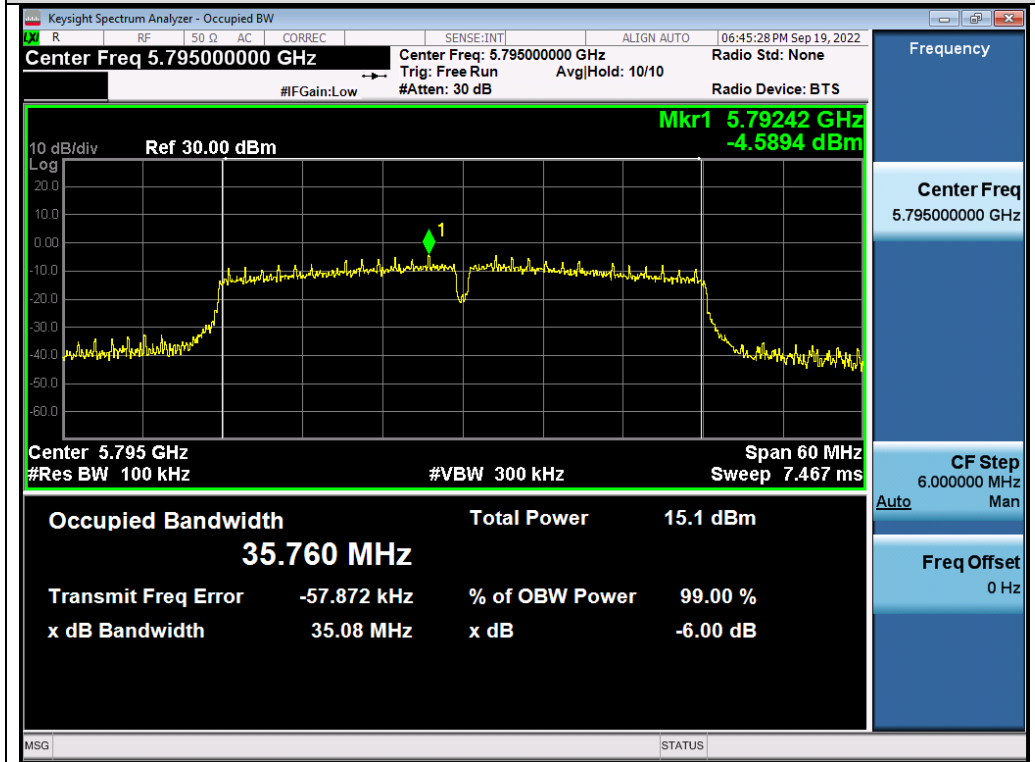


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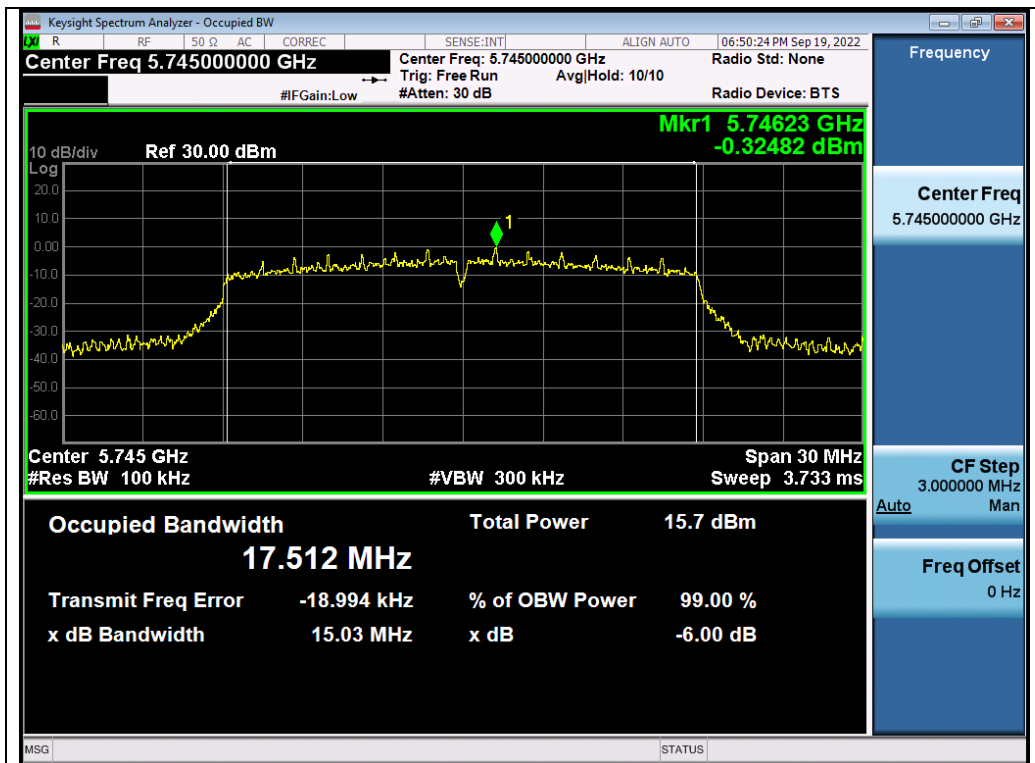


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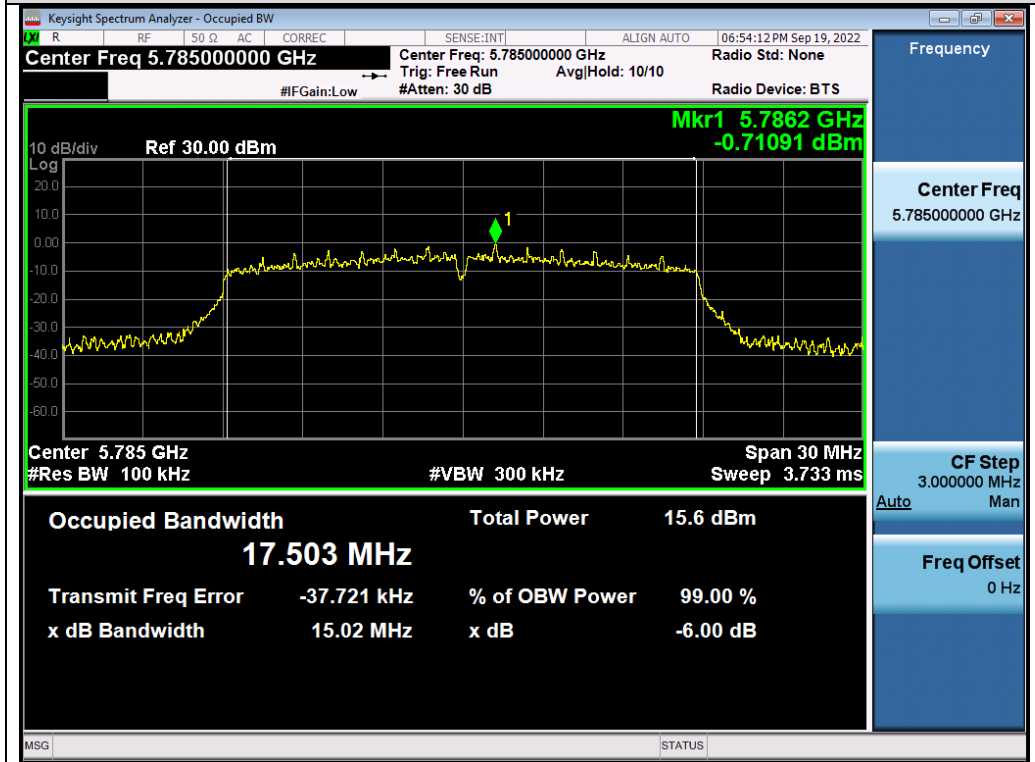


Test_Graph_802.11n40_ANT1_5795_MCS0_DTSBW

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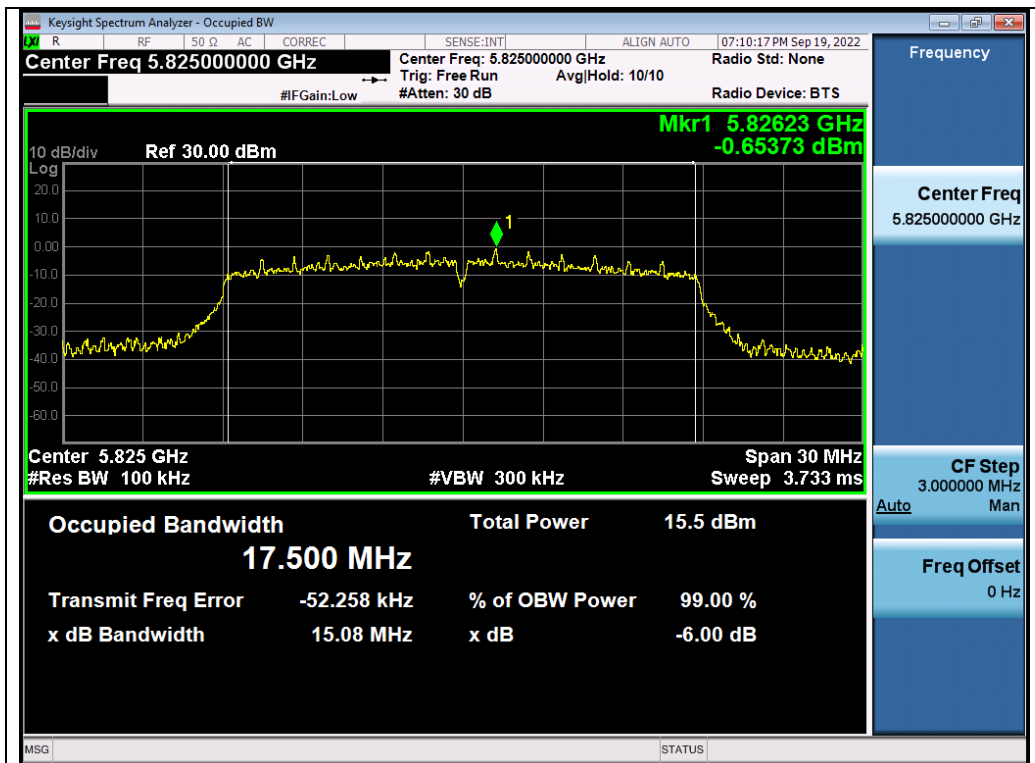


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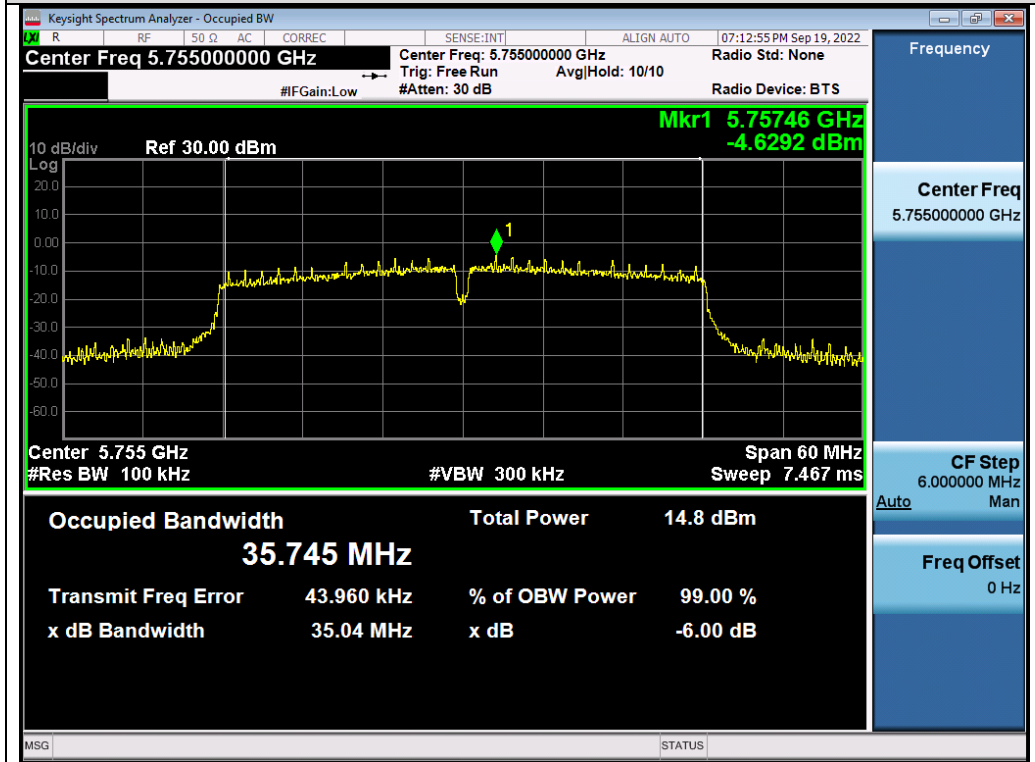


Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW

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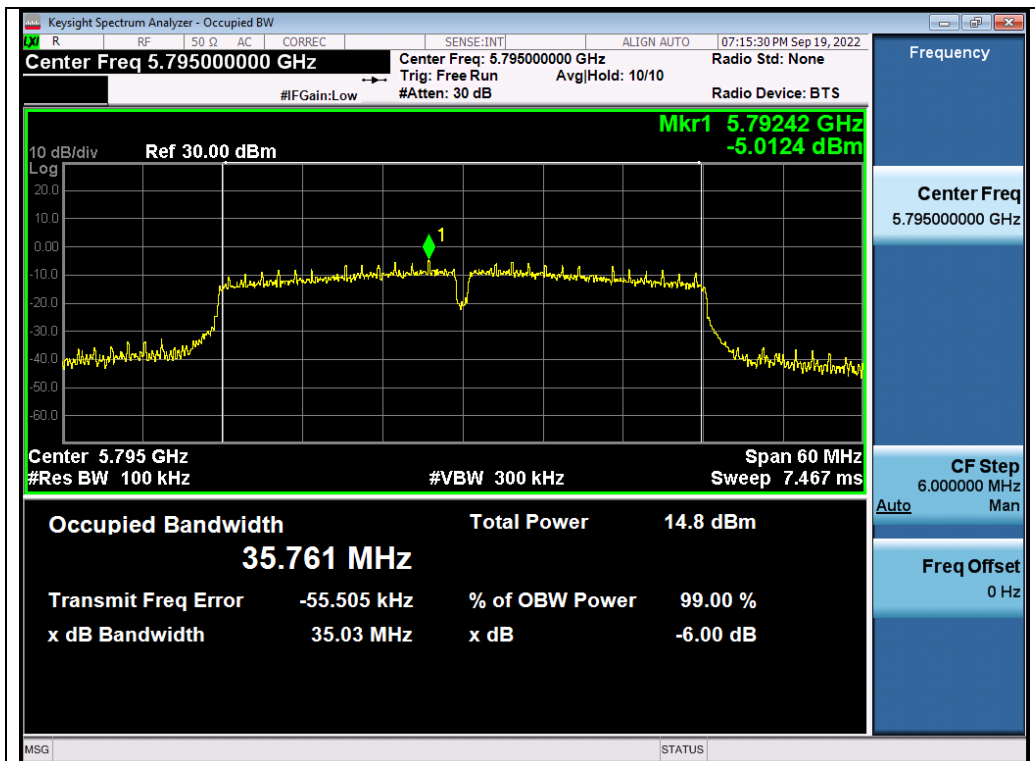


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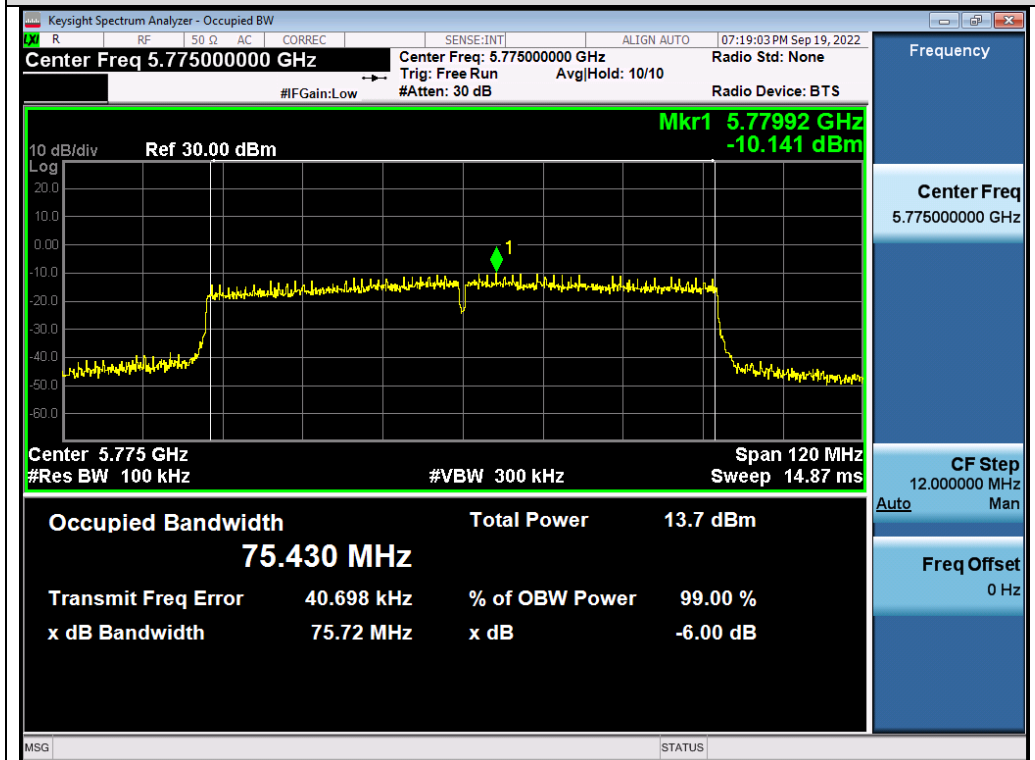


Test_Graph_802.11ac40_ANT1_5755_MCS9_DTSBW

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Test_Graph_802.11ac40_ANT1_5795_MCS9_DTSBW



Test_Graph_802.11ac80_ANT1_5775_MCS9_DTSBW

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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 | 2.916 | 11 | Pass |
| | 5200 | 2.405 | 11 | Pass |
| | 5240 | 2.204 | 11 | Pass |
| 802.11n20 | 5180 | 2.500 | 11 | Pass |
| | 5200 | 2.262 | 11 | Pass |
| | 5240 | 1.790 | 11 | Pass |
| 802.11n40 | 5190 | -0.647 | 11 | Pass |
| | 5230 | -1.730 | 11 | Pass |
| 802.11ac20 | 5180 | 1.628 | 11 | Pass |
| | 5200 | 1.350 | 11 | Pass |
| | 5240 | 1.115 | 11 | Pass |
| 802.11ac40 | 5190 | -1.782 | 11 | Pass |
| | 5230 | -2.206 | 11 | Pass |
| 802.11ac80 | 5210 | -5.858 | 11 | Pass |

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| Test Data of Conducted Output Power Density for band 5.25-5.35 GHz | | | | |
|--|--------------------|---------------------------------|------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a | 5260 | 2.008 | 11 | Pass |
| | 5300 | 1.582 | 11 | Pass |
| | 5320 | 1.319 | 11 | Pass |
| 802.11n20 | 5260 | 1.346 | 11 | Pass |
| | 5300 | 0.993 | 11 | Pass |
| | 5320 | 1.194 | 11 | Pass |
| 802.11n40 | 5270 | -1.667 | 11 | Pass |
| | 5310 | -1.525 | 11 | Pass |
| 802.11ac20 | 5260 | 0.915 | 11 | Pass |
| | 5300 | 0.961 | 11 | Pass |
| | 5320 | 0.798 | 11 | Pass |
| 802.11ac40 | 5270 | -2.600 | 11 | Pass |
| | 5310 | -2.382 | 11 | Pass |
| 802.11ac80 | 5290 | -6.154 | 11 | Pass |

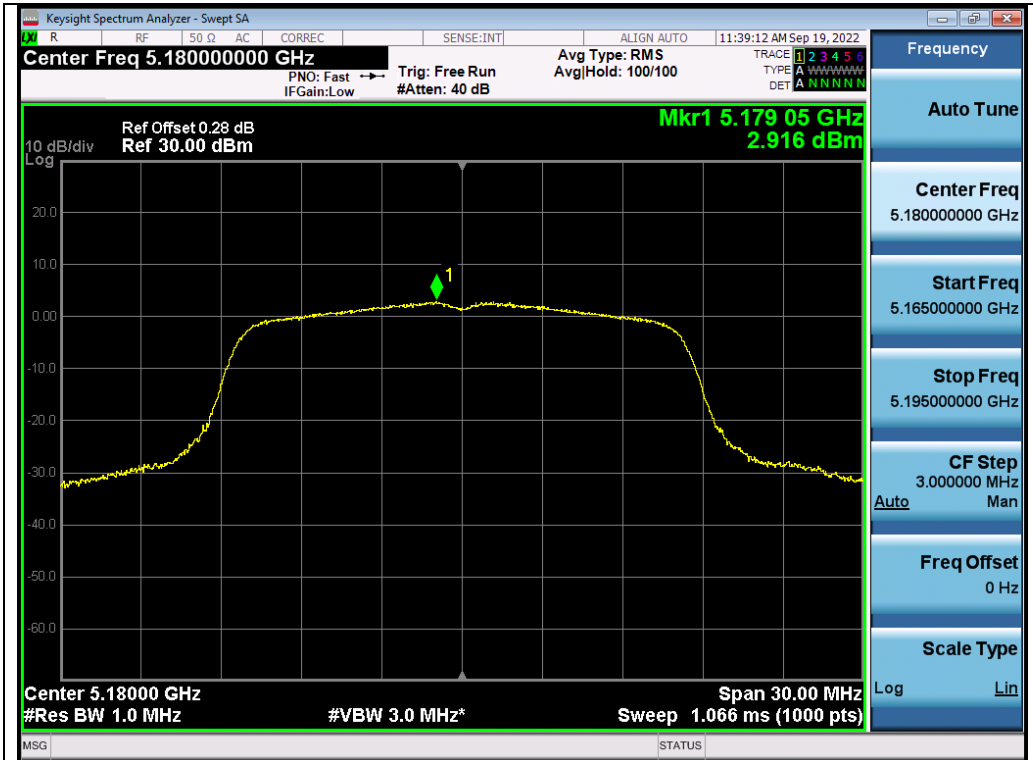
| Test Data of Conducted Output Power Density for band 5.47-5.725 GHz | | | | |
|---|--------------------|---------------------------------|------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a | 5500 | 2.153 | 11 | Pass |
| | 5600 | 1.672 | 11 | Pass |
| | 5700 | 1.438 | 11 | Pass |
| 802.11n20 | 5500 | 1.556 | 11 | Pass |
| | 5600 | 1.045 | 11 | Pass |
| | 5700 | 0.725 | 11 | Pass |
| 802.11n40 | 5510 | -1.456 | 11 | Pass |
| | 5590 | -2.029 | 11 | Pass |
| 802.11ac20 | 5670 | -2.119 | 11 | Pass |
| | 5500 | 0.890 | 11 | Pass |
| | 5600 | 0.688 | 11 | Pass |
| 802.11ac40 | 5700 | 0.360 | 11 | Pass |
| | 5510 | -2.690 | 11 | Pass |
| 802.11ac80 | 5610 | -7.096 | 11 | Pass |

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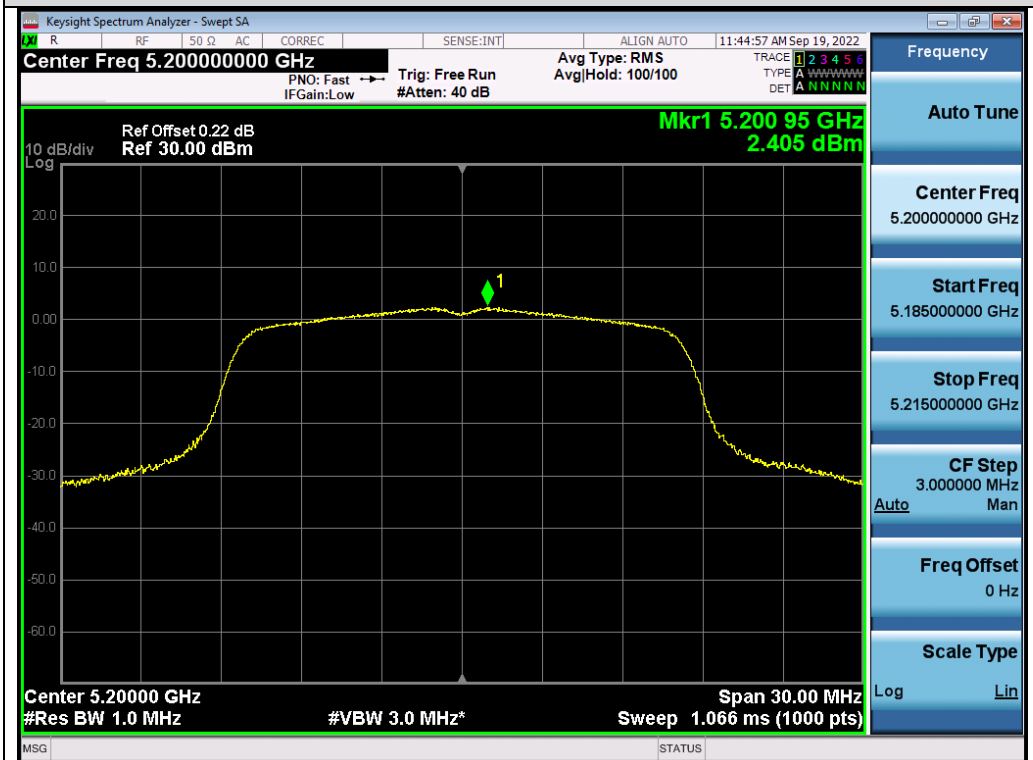
| Test Data of Conducted Output Power Density for band 5.725-5.85 GHz | | | | |
|---|--------------------|------------------------------------|---------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/500kHz) | Limits (dBm/500kHz) | Pass or Fail |
| 802.11a | 5745 | -0.595 | 30 | Pass |
| | 5785 | -0.875 | 30 | Pass |
| | 5825 | -0.892 | 30 | Pass |
| 802.11n20 | 5745 | -1.237 | 30 | Pass |
| | 5785 | -1.478 | 30 | Pass |
| | 5825 | -1.189 | 30 | Pass |
| 802.11n40 | 5755 | -4.399 | 30 | Pass |
| | 5795 | -4.975 | 30 | Pass |
| 802.11ac20 | 5745 | -1.877 | 30 | Pass |
| | 5785 | -1.867 | 30 | Pass |
| | 5825 | -2.117 | 30 | Pass |
| 802.11ac40 | 5755 | -5.377 | 30 | Pass |
| | 5795 | -5.546 | 30 | Pass |
| 802.11ac80 | 5775 | -8.712 | 30 | Pass |

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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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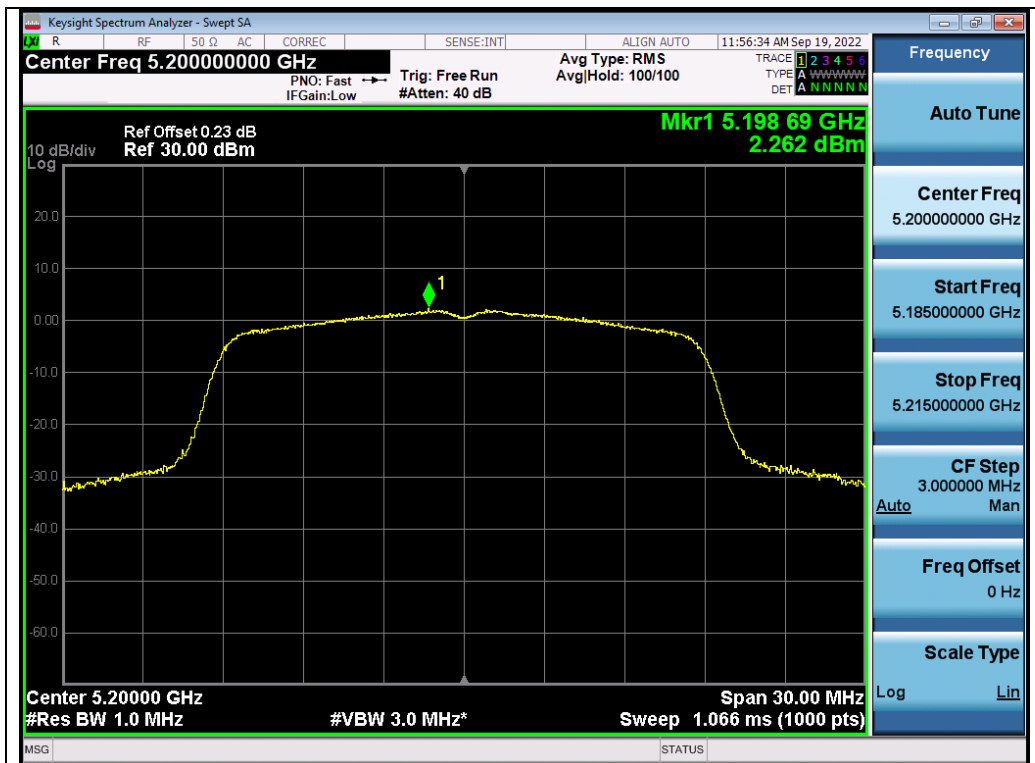


Test_Graph_802.11a_ANT1_5240_6Mbps_PSD

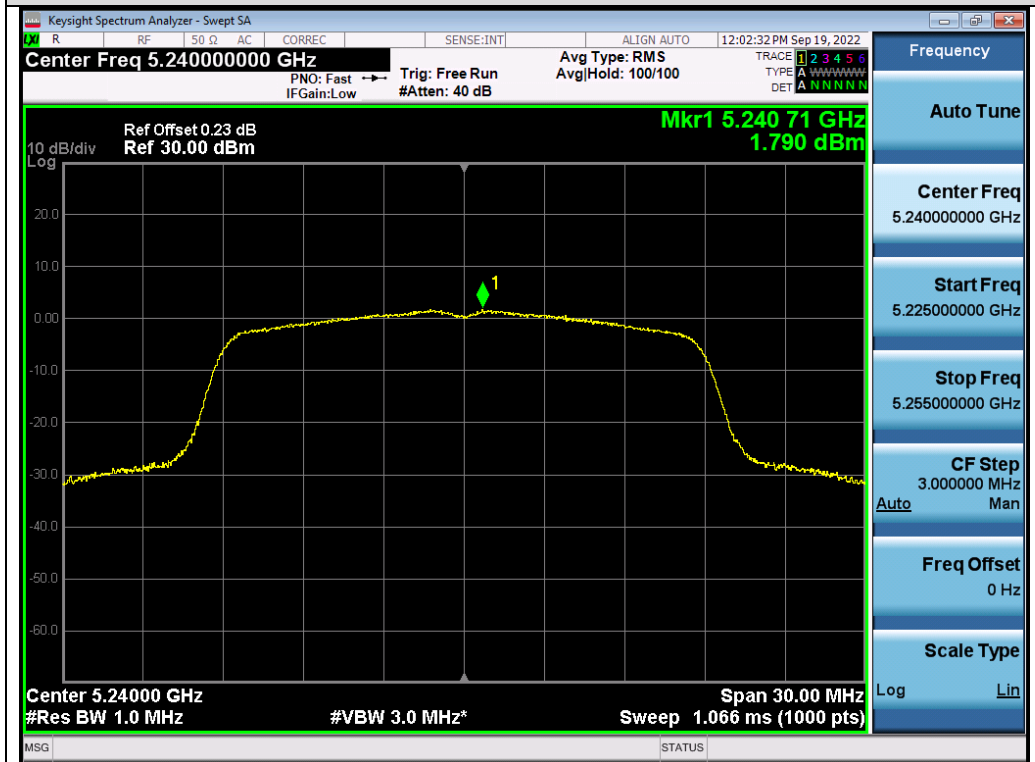


Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

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Test_Graph_802.11n20_ANT1_5200_MCS0_PSD



Test_Graph_802.11n20_ANT1_5240_MCS0_PSD

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