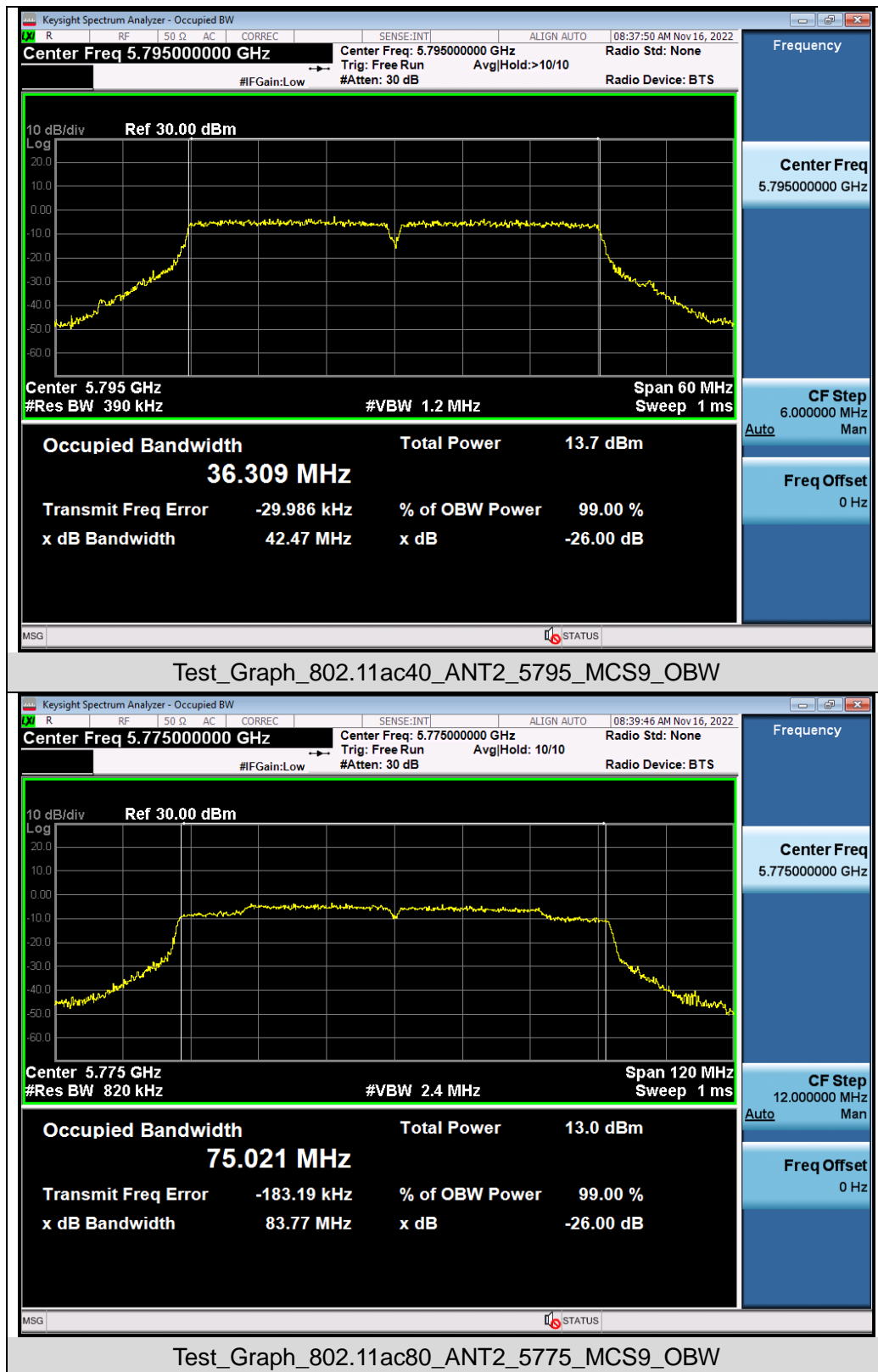
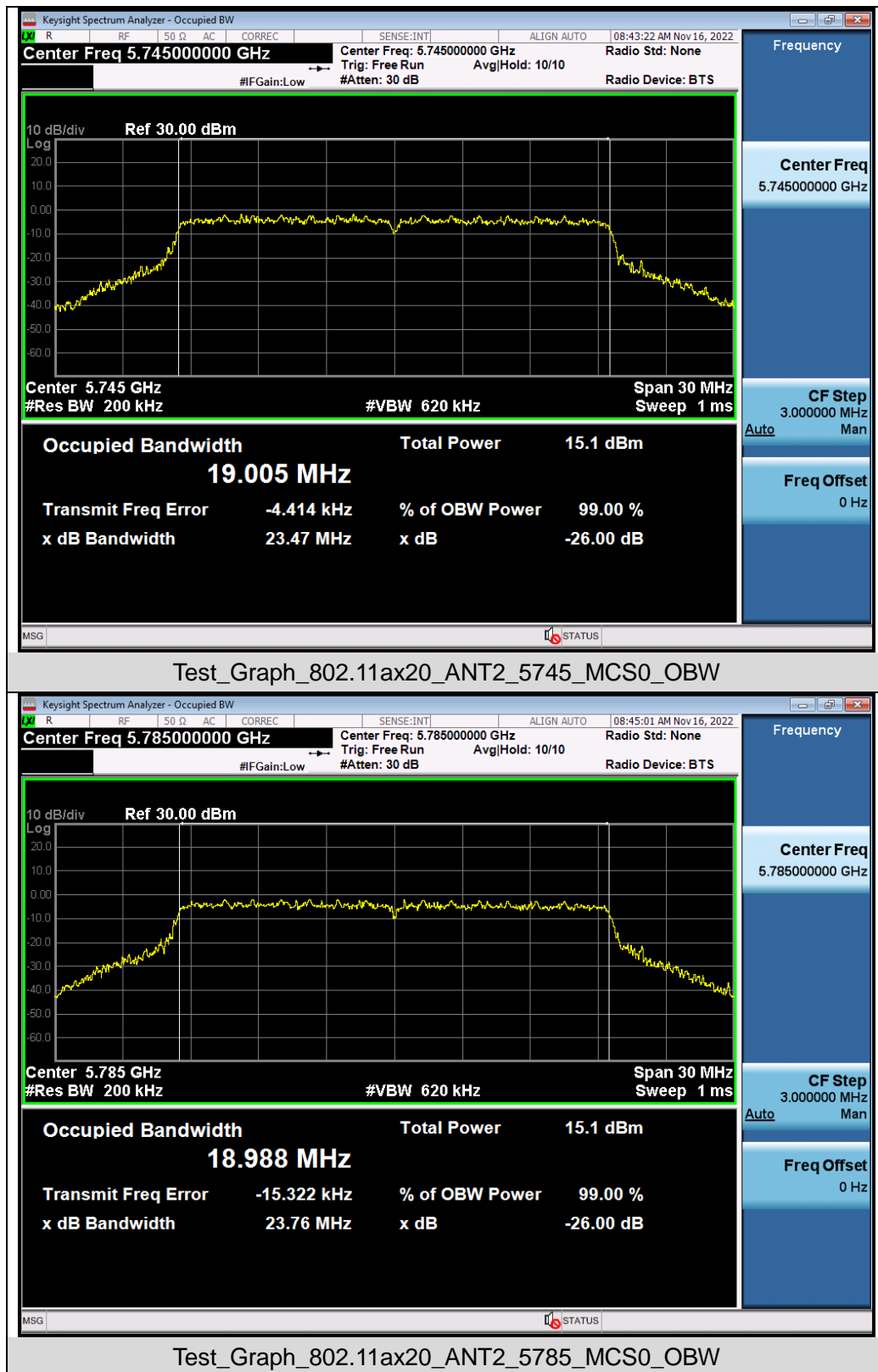


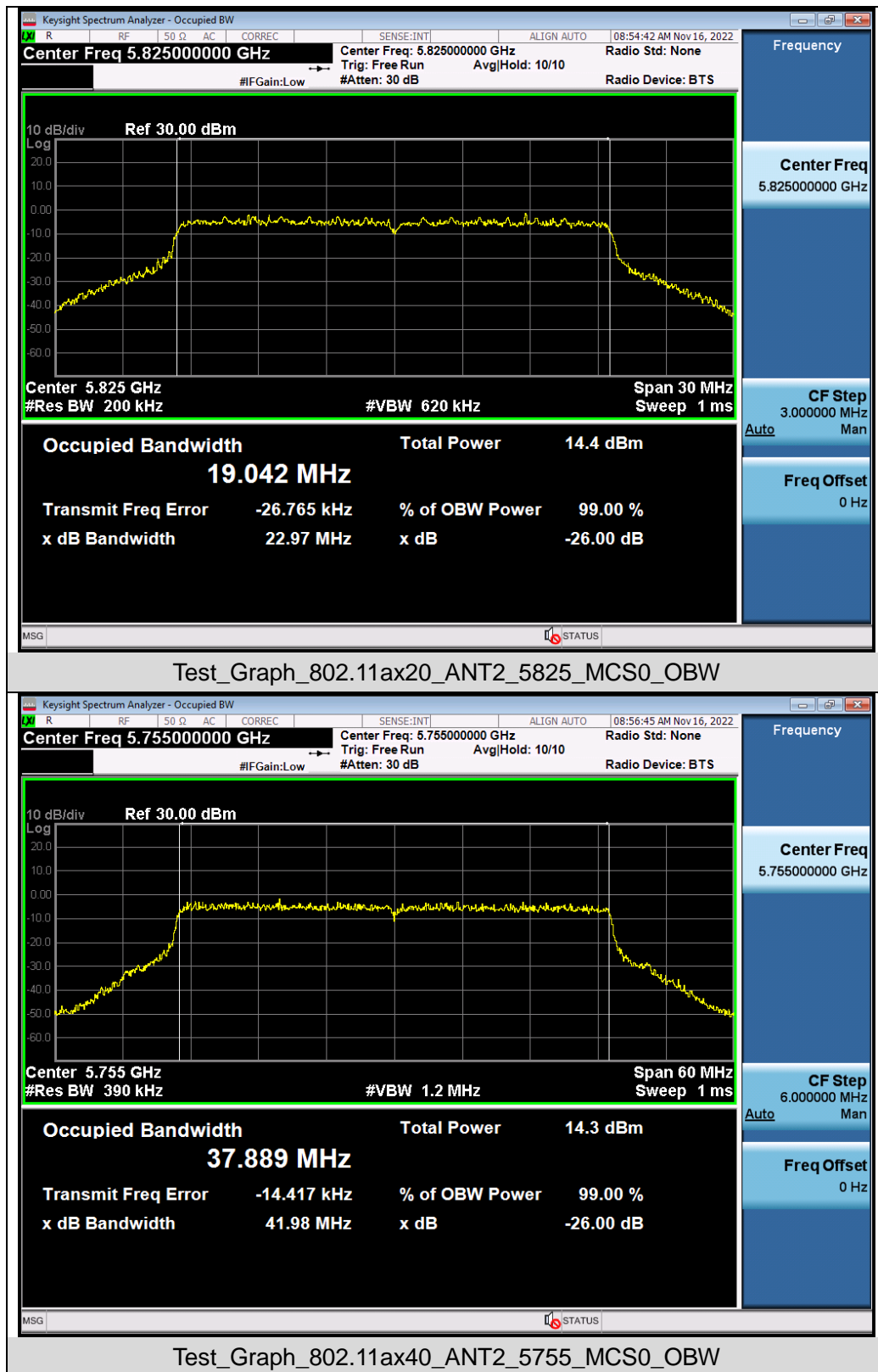
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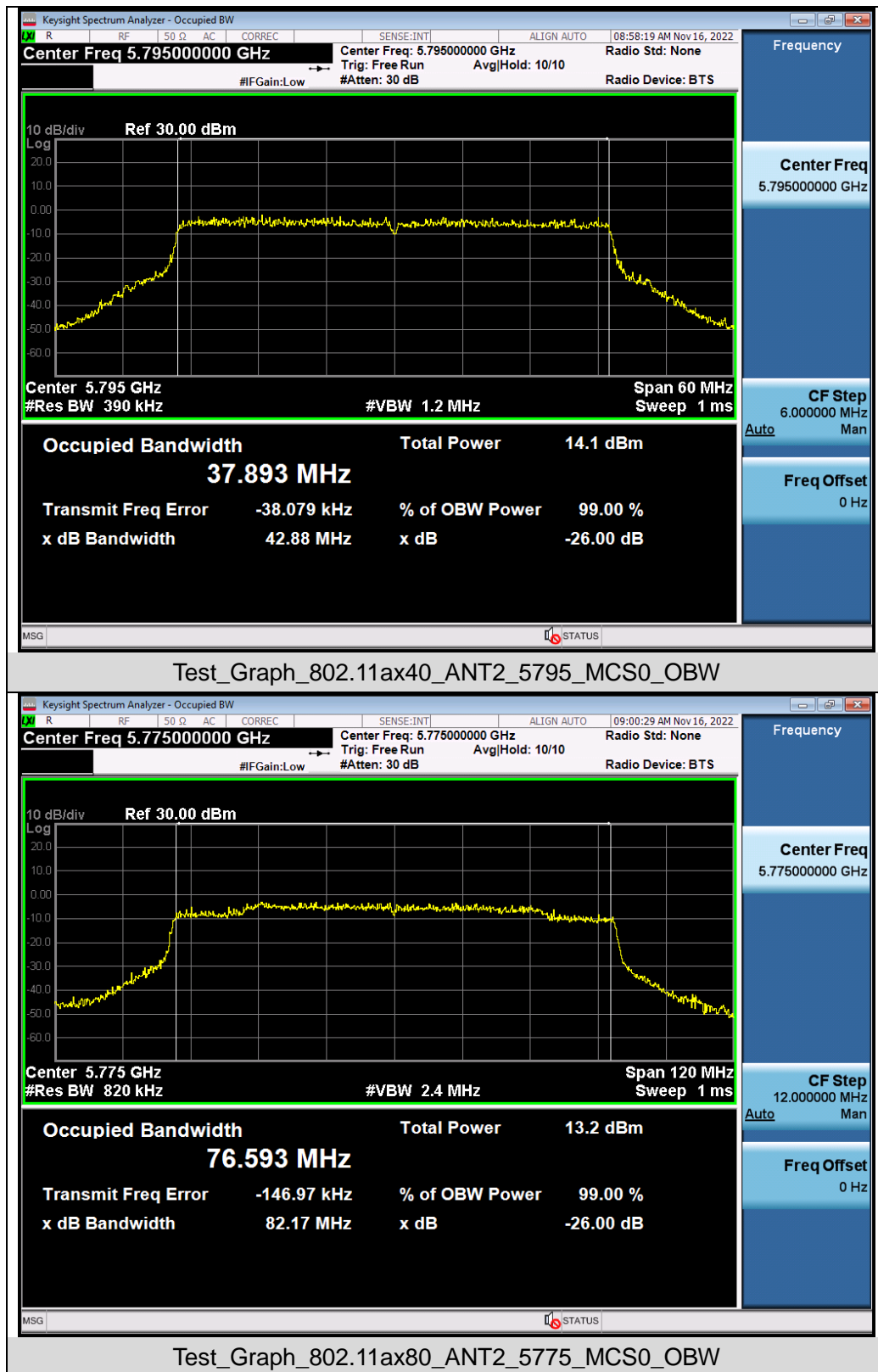
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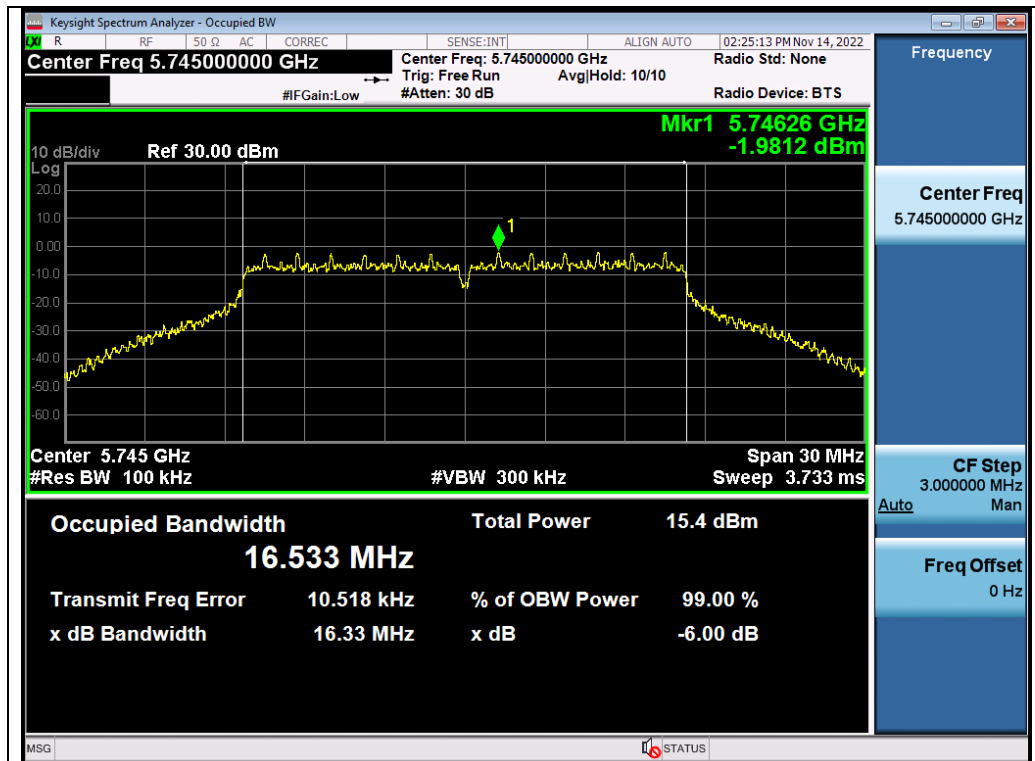


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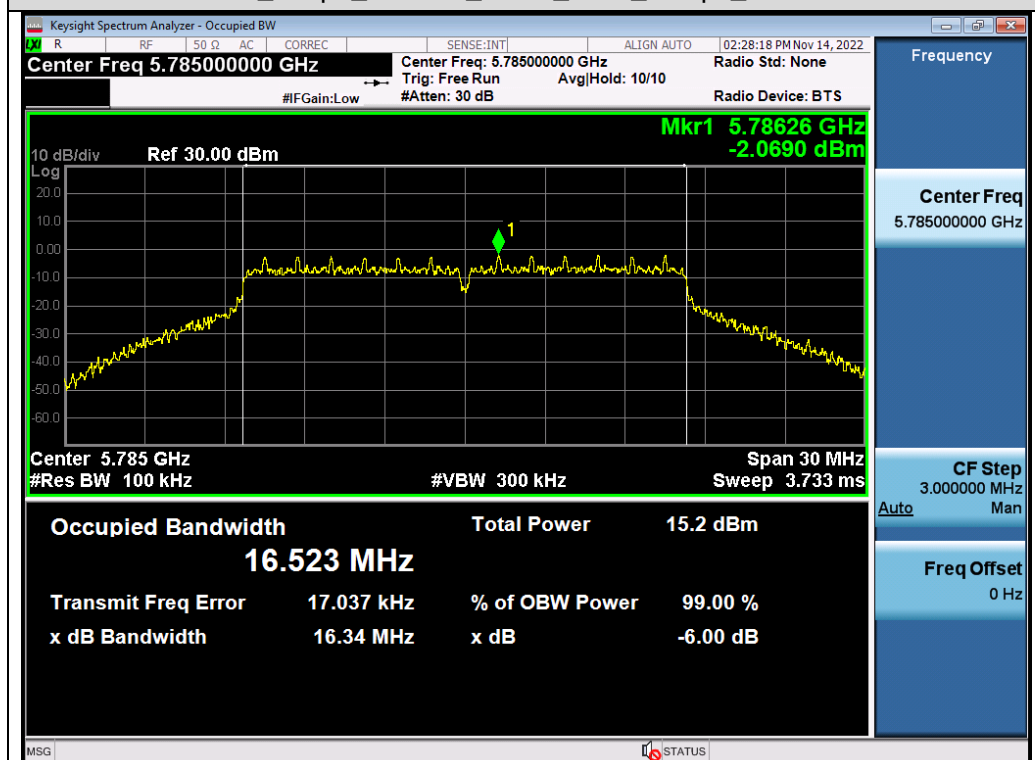


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSSBW



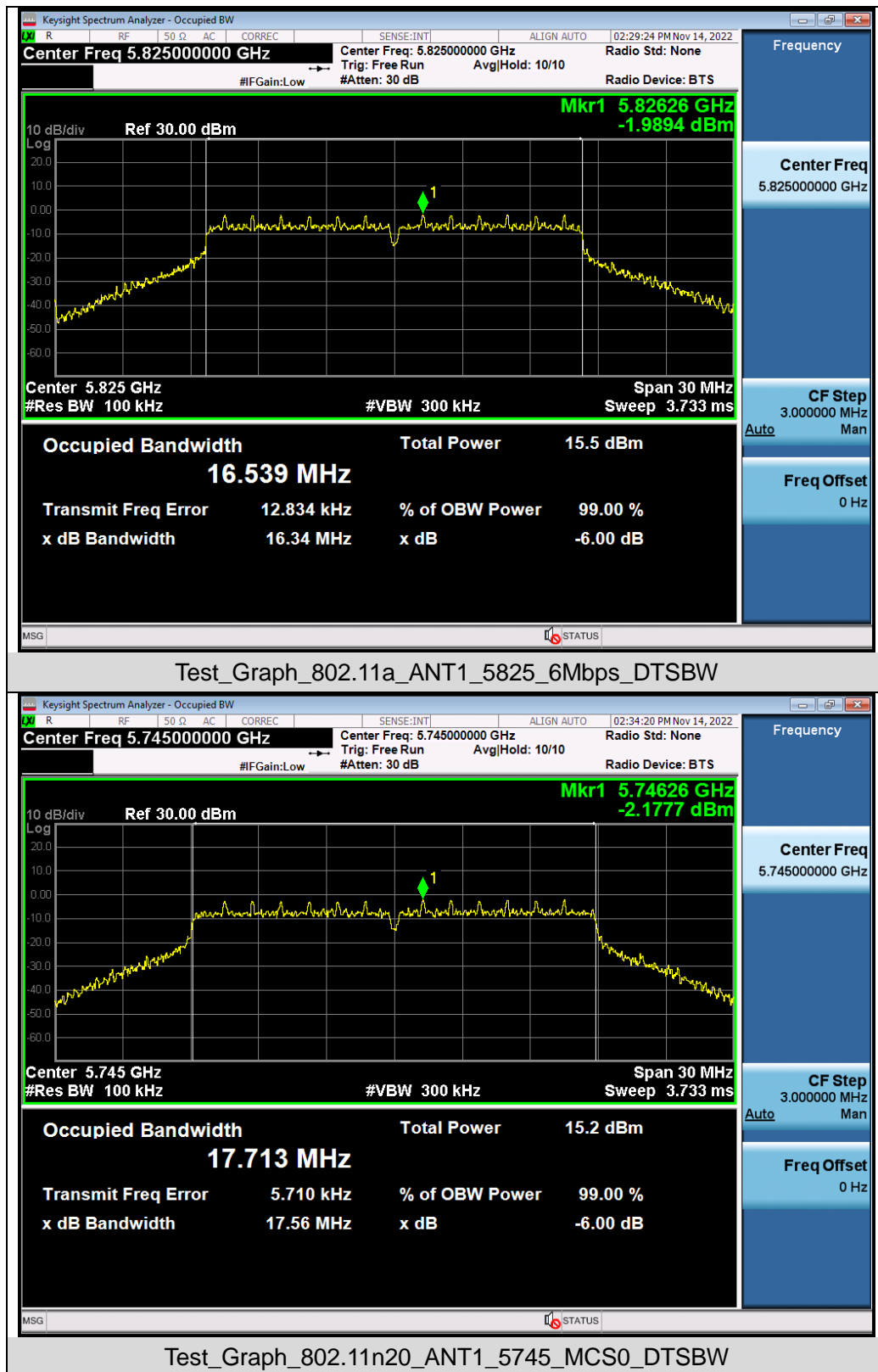
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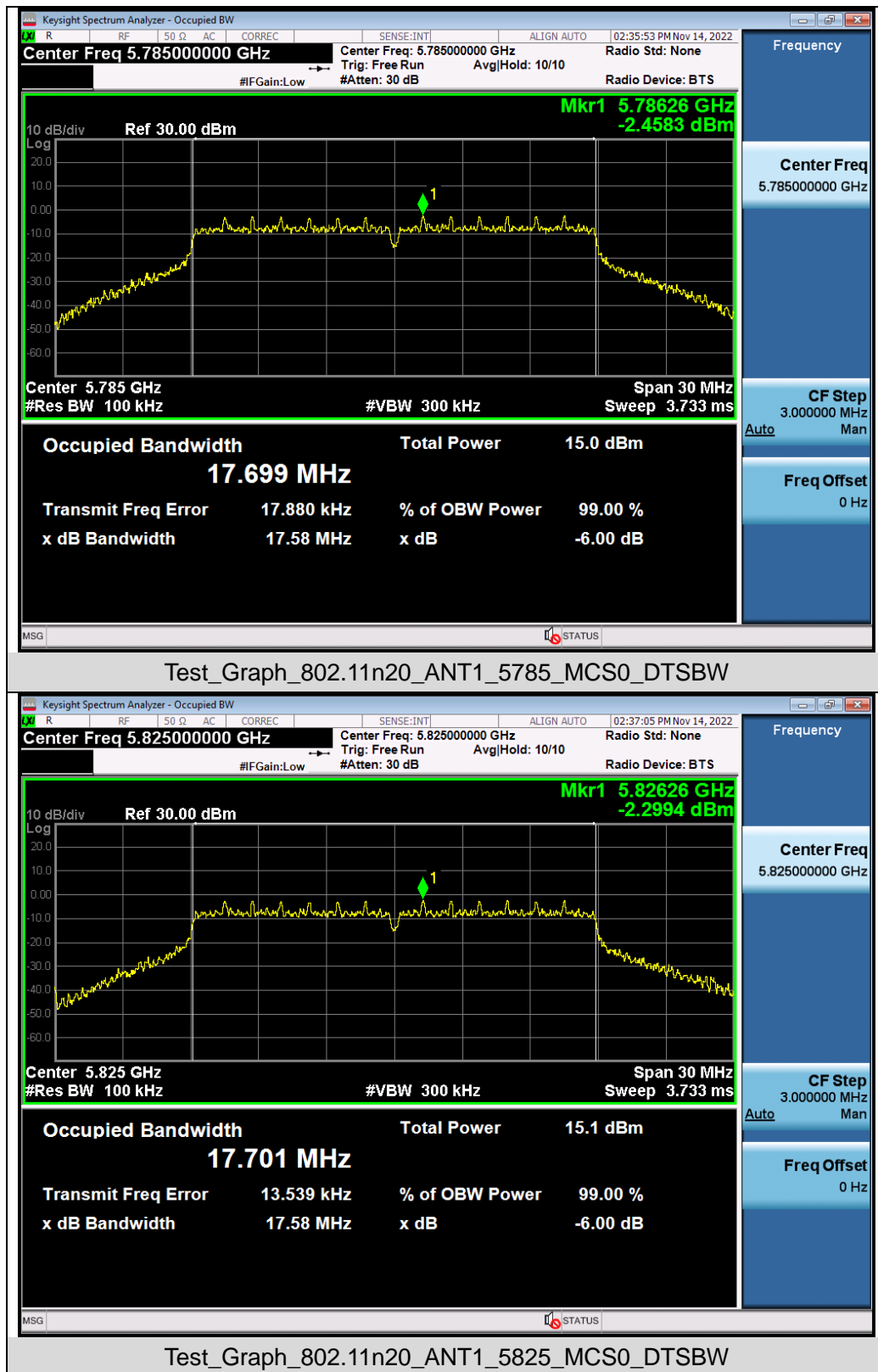
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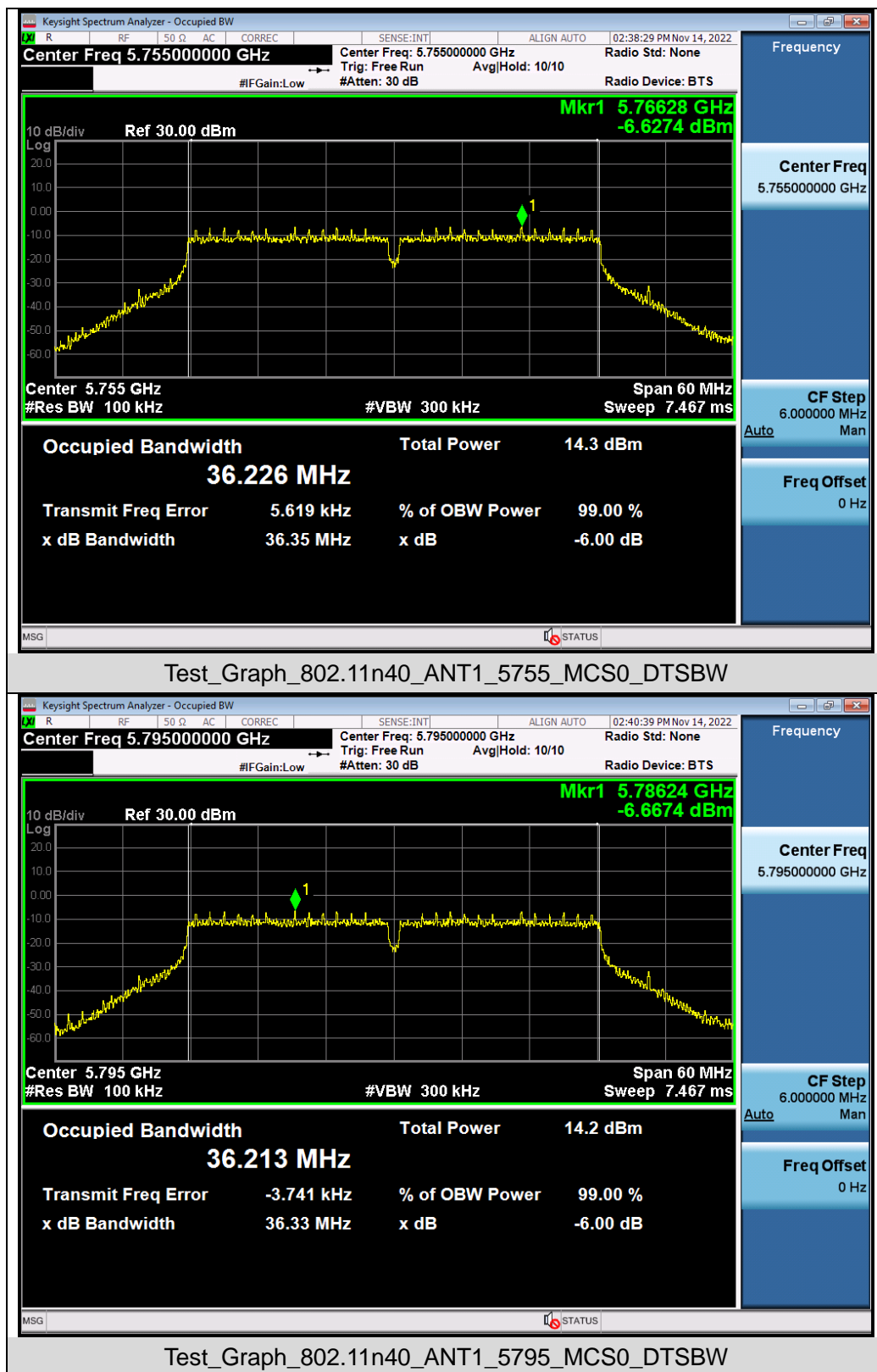
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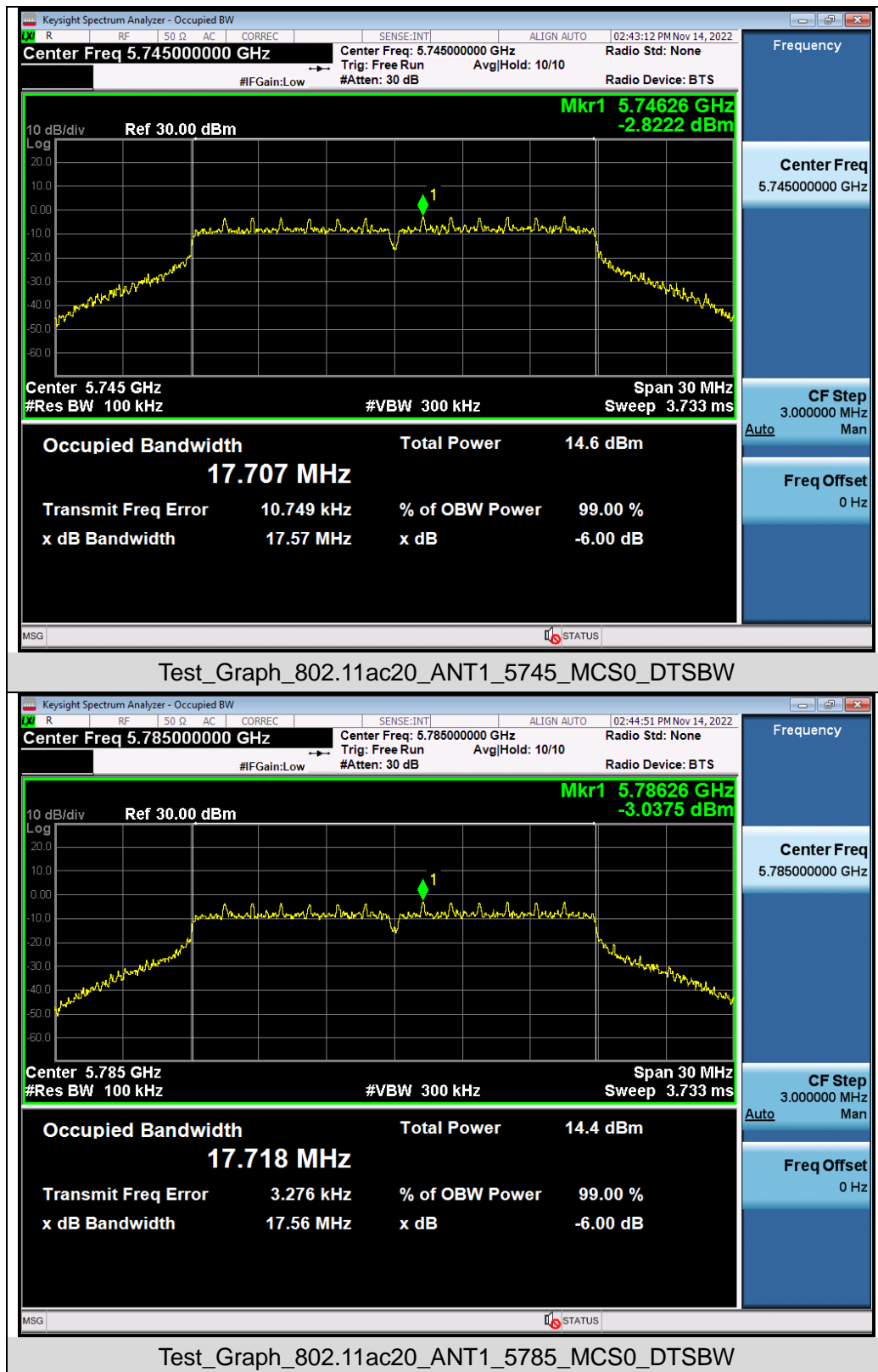
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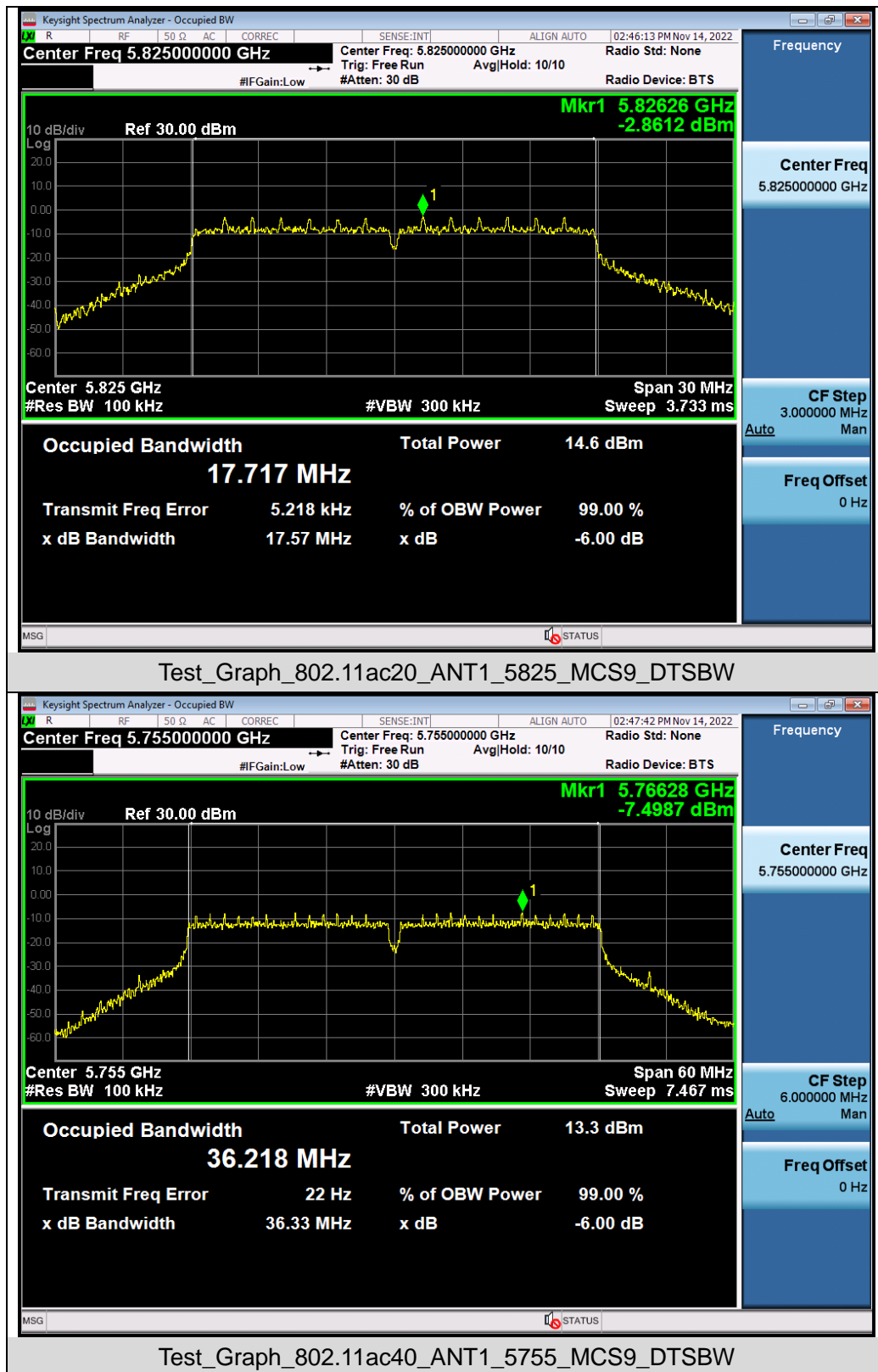
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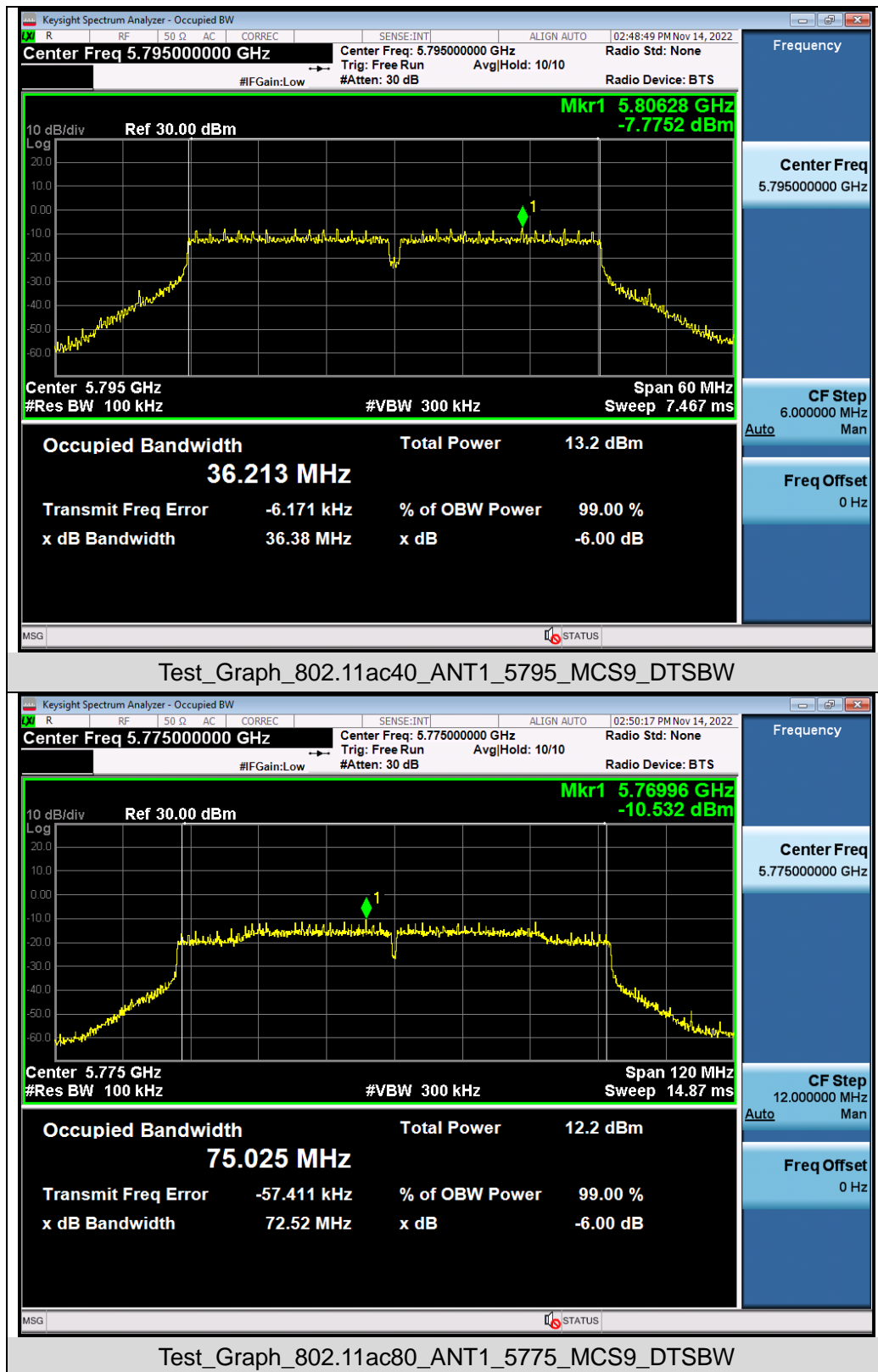
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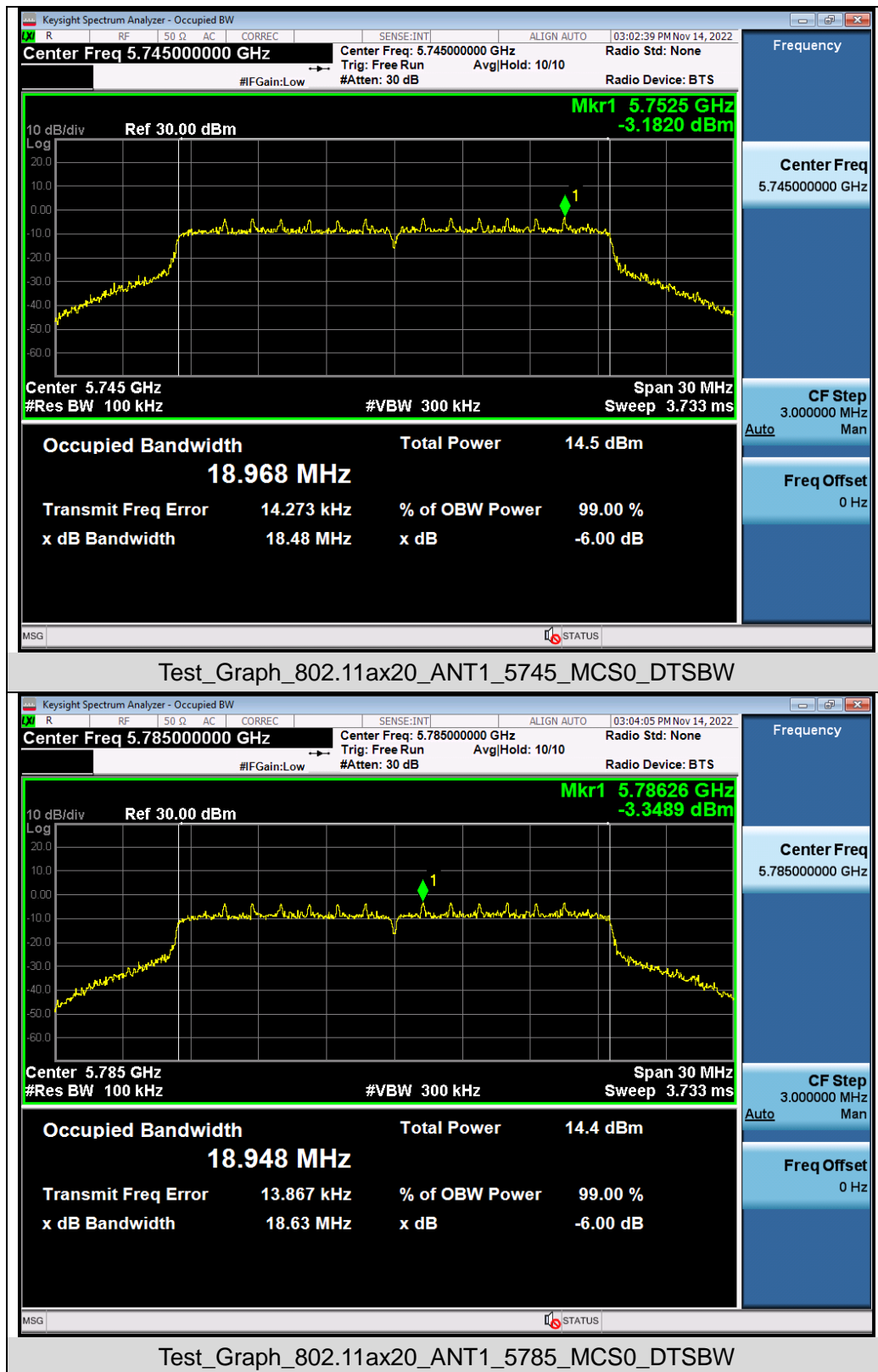
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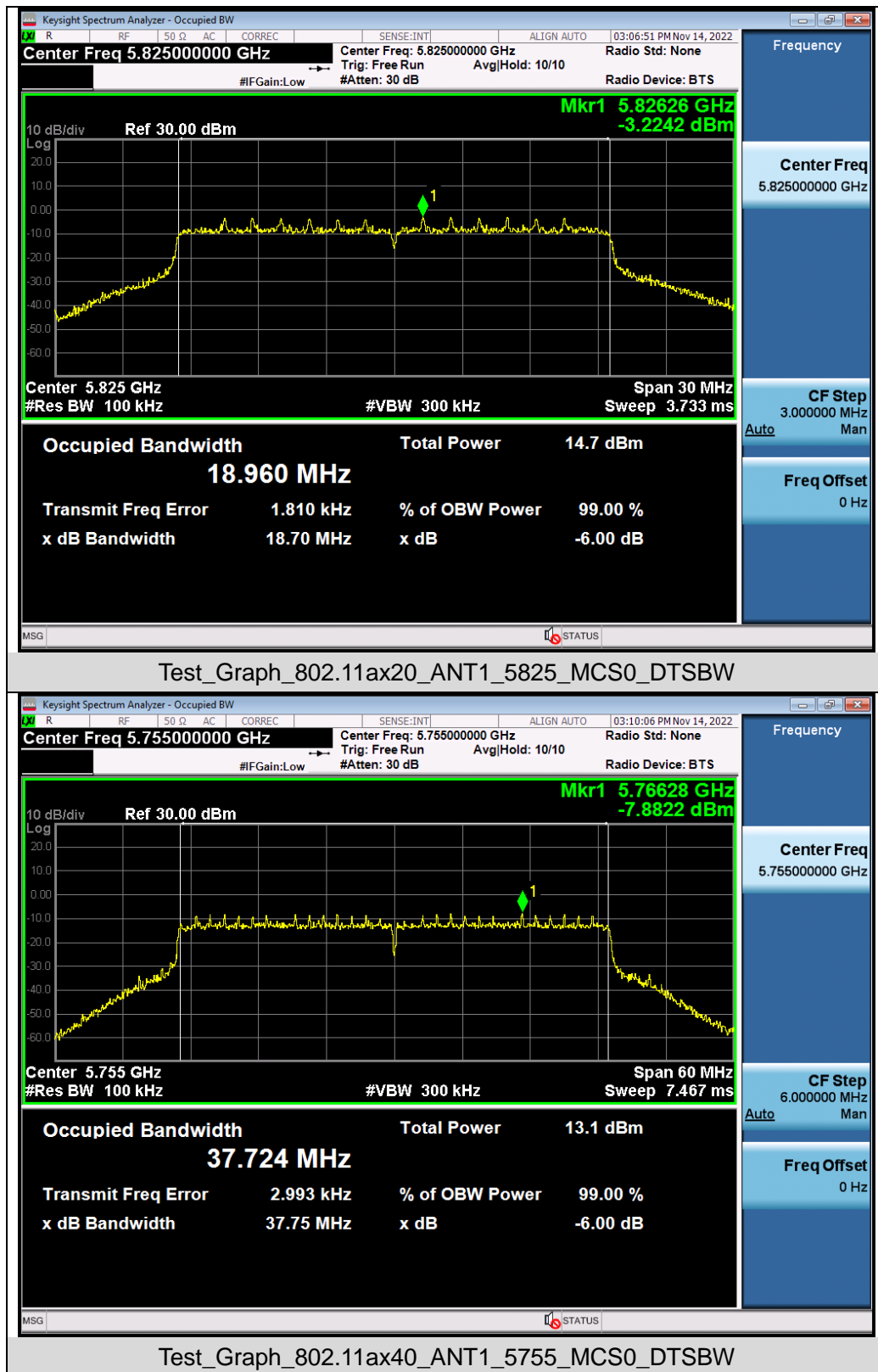
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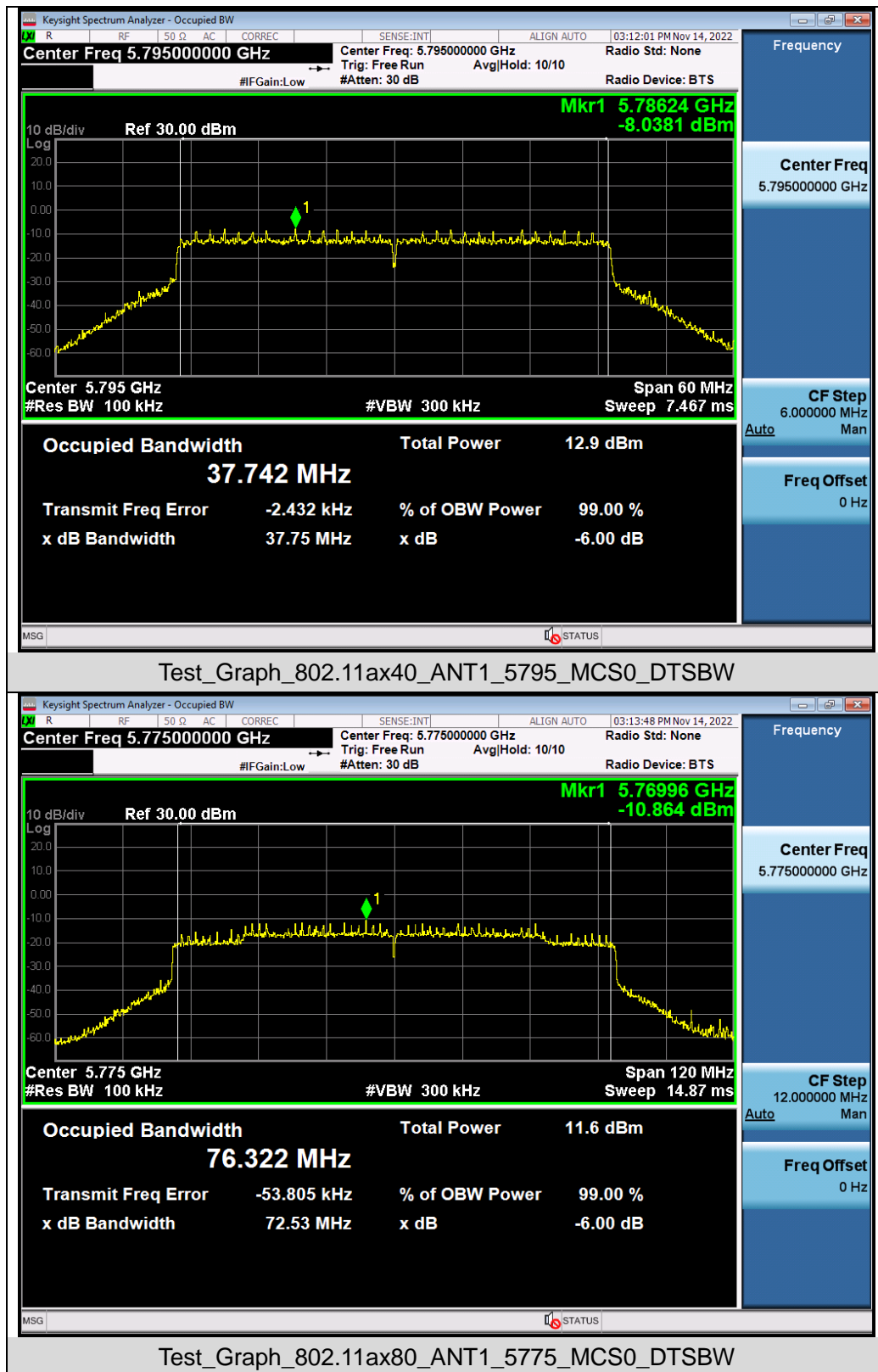
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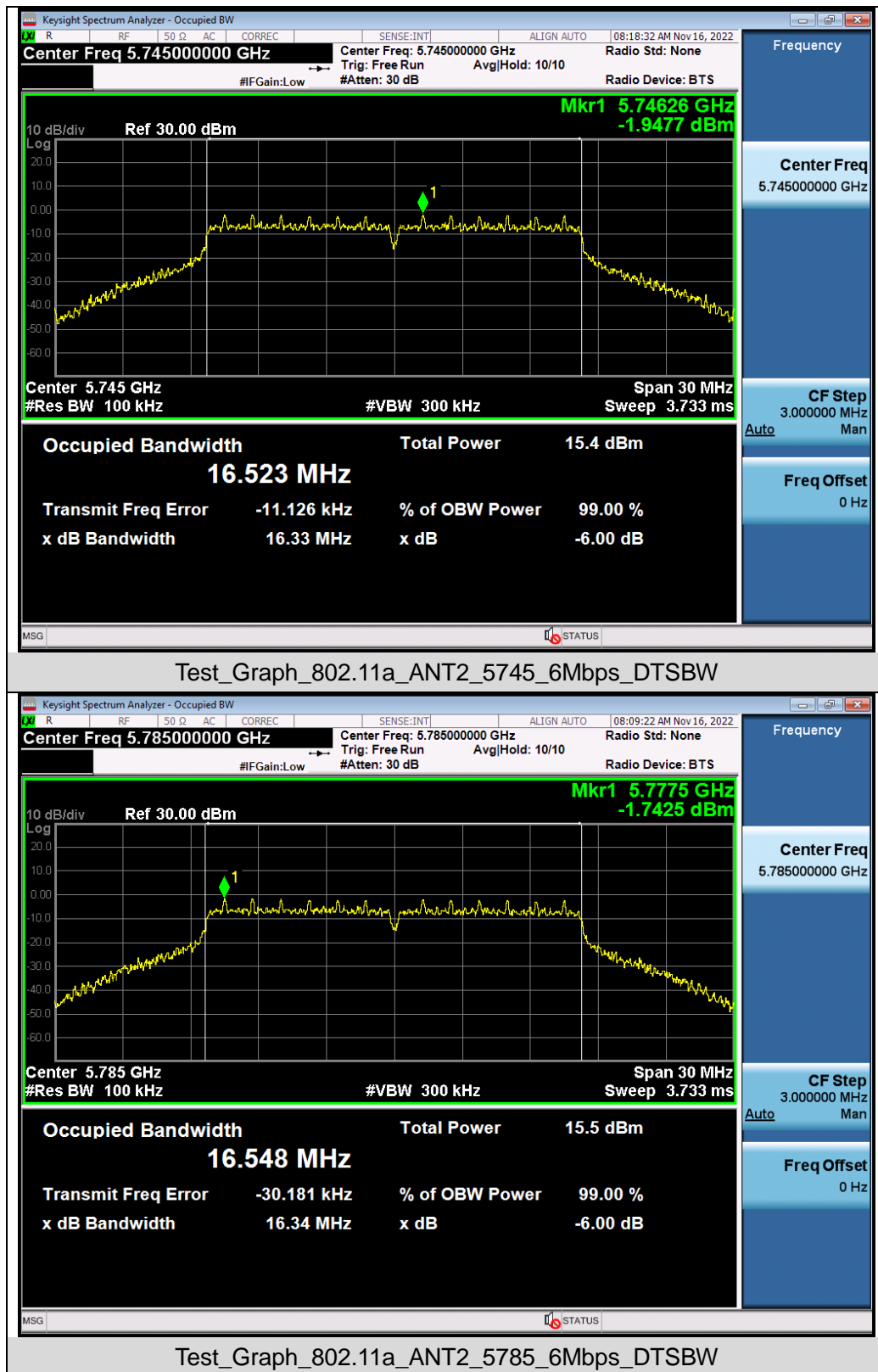
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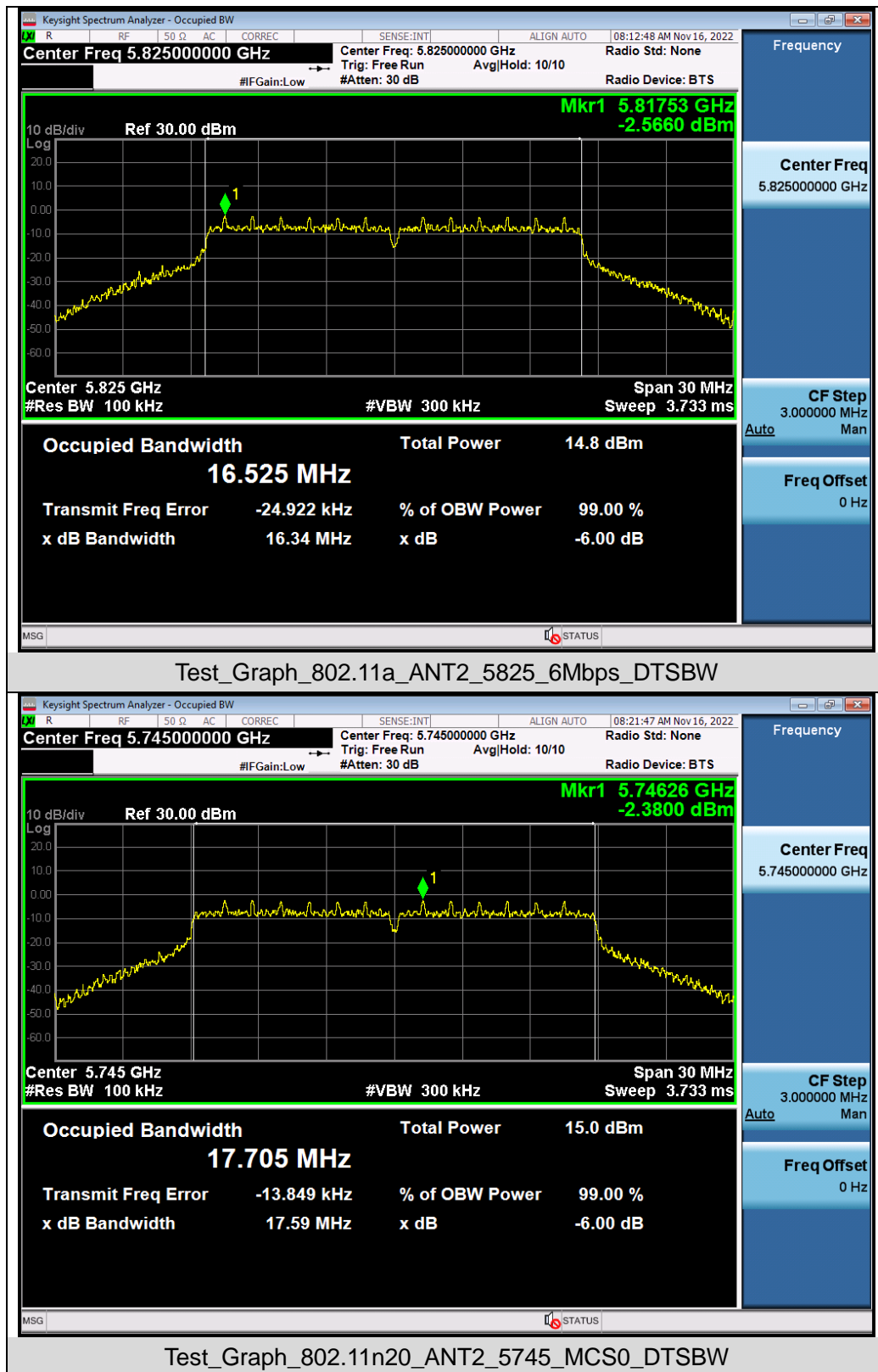


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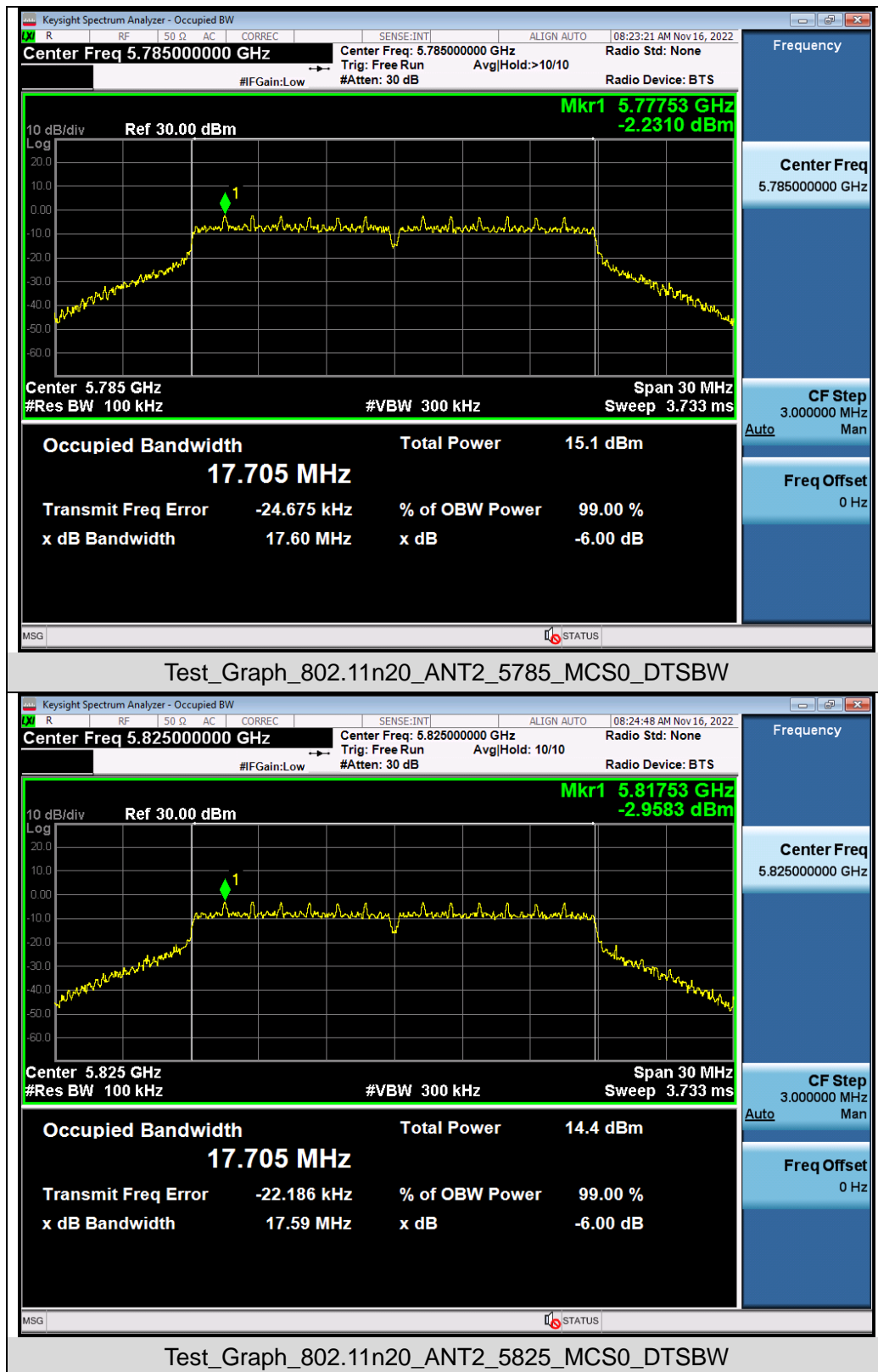
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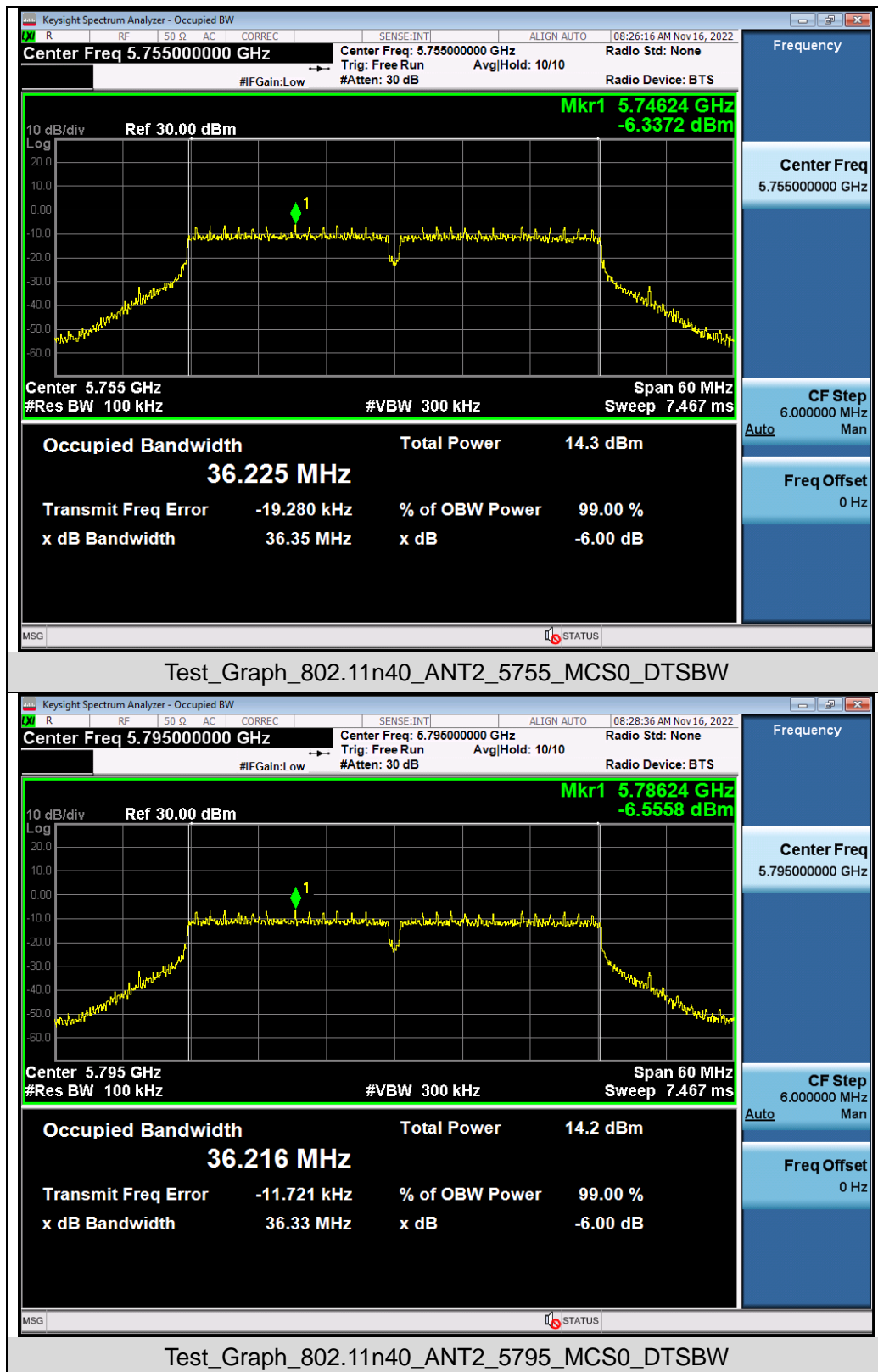
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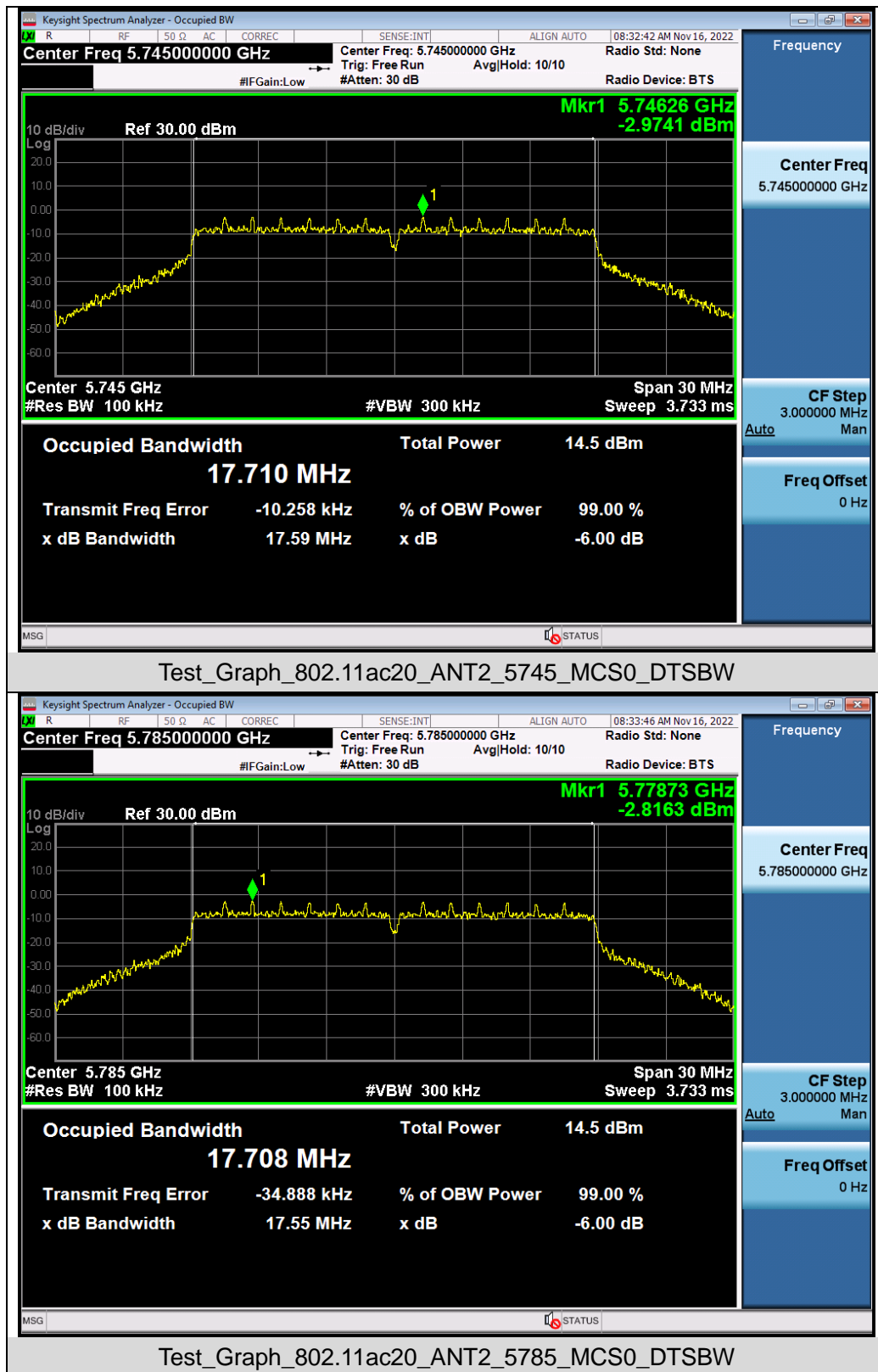


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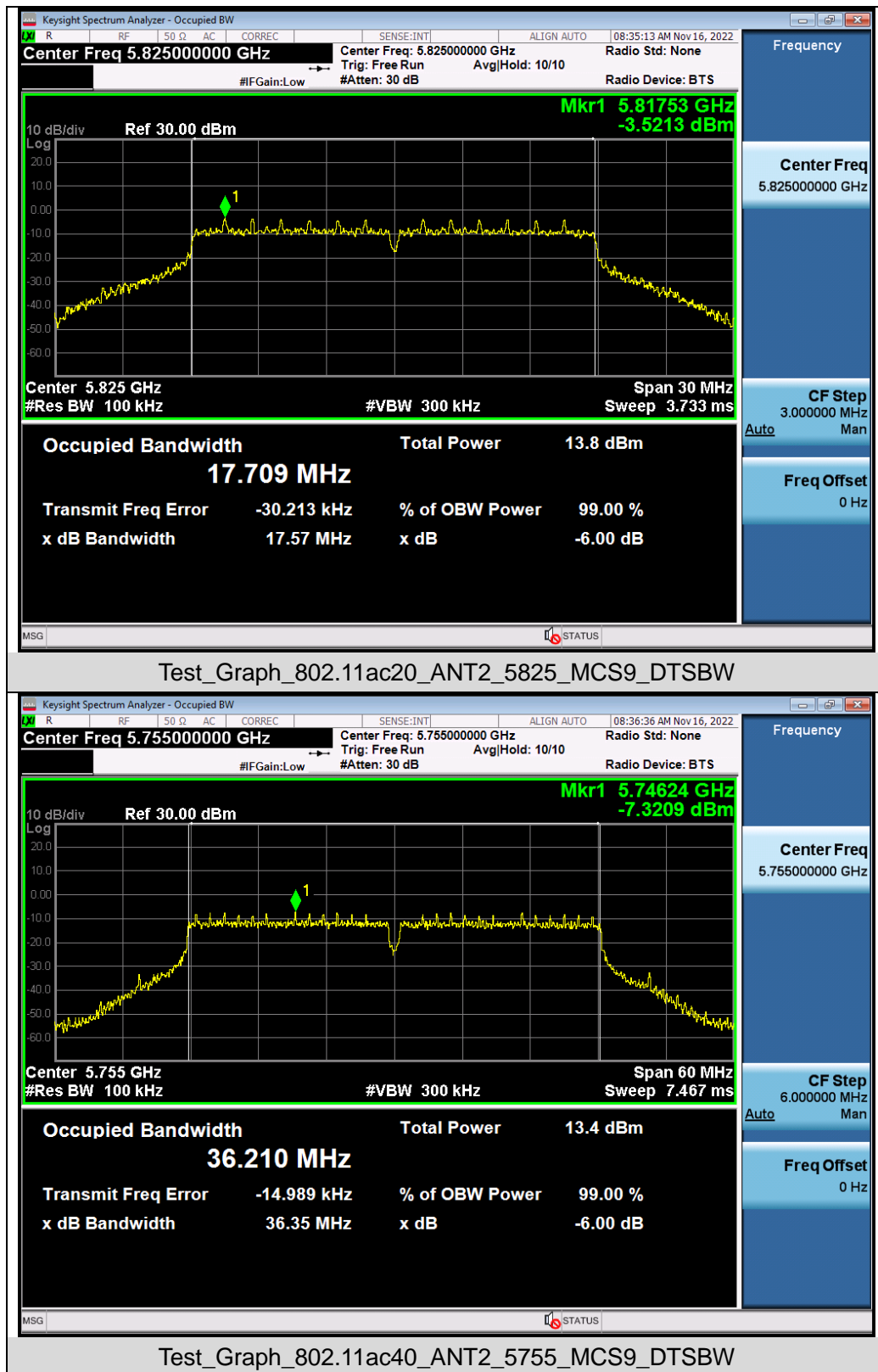
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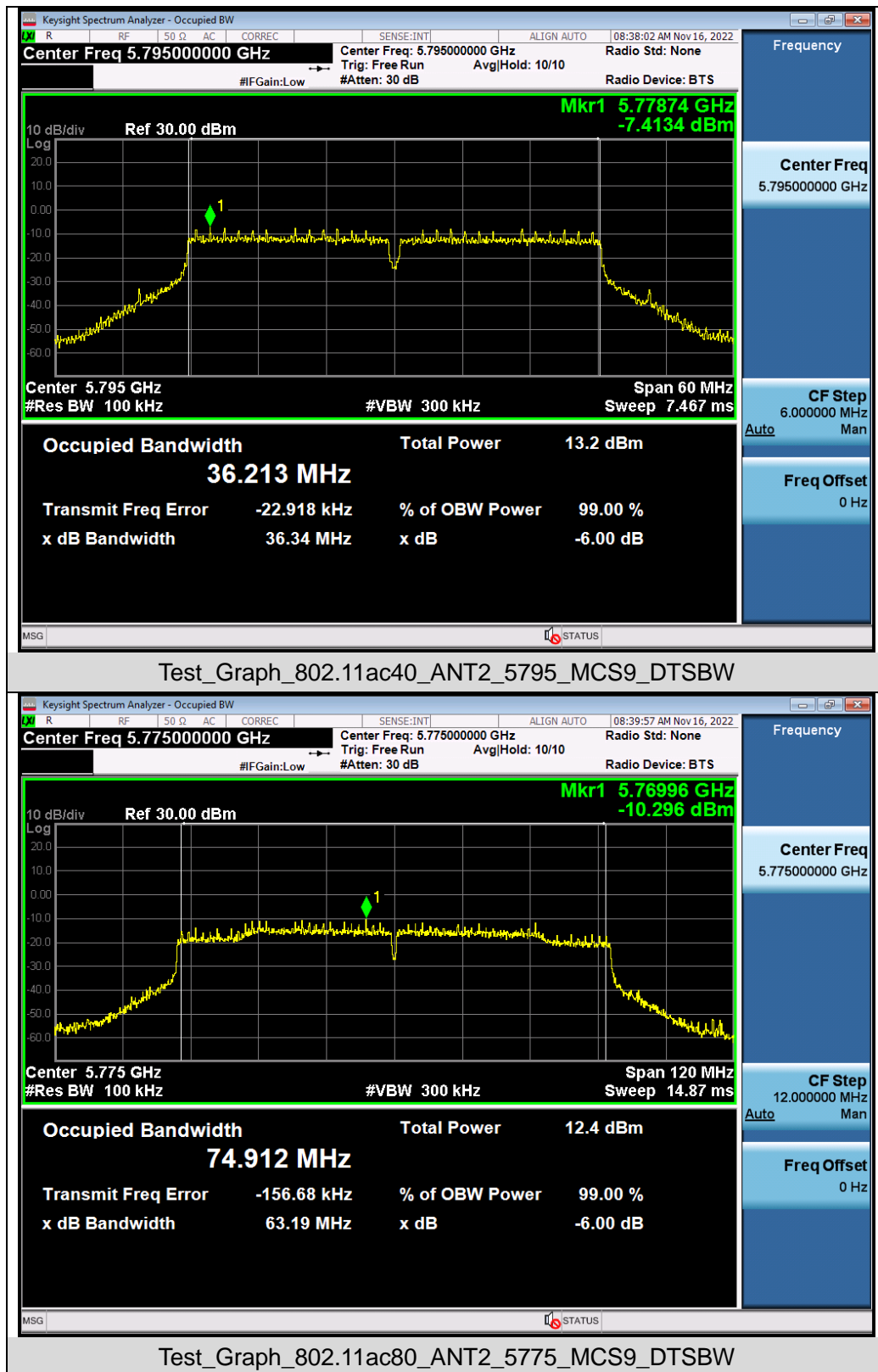
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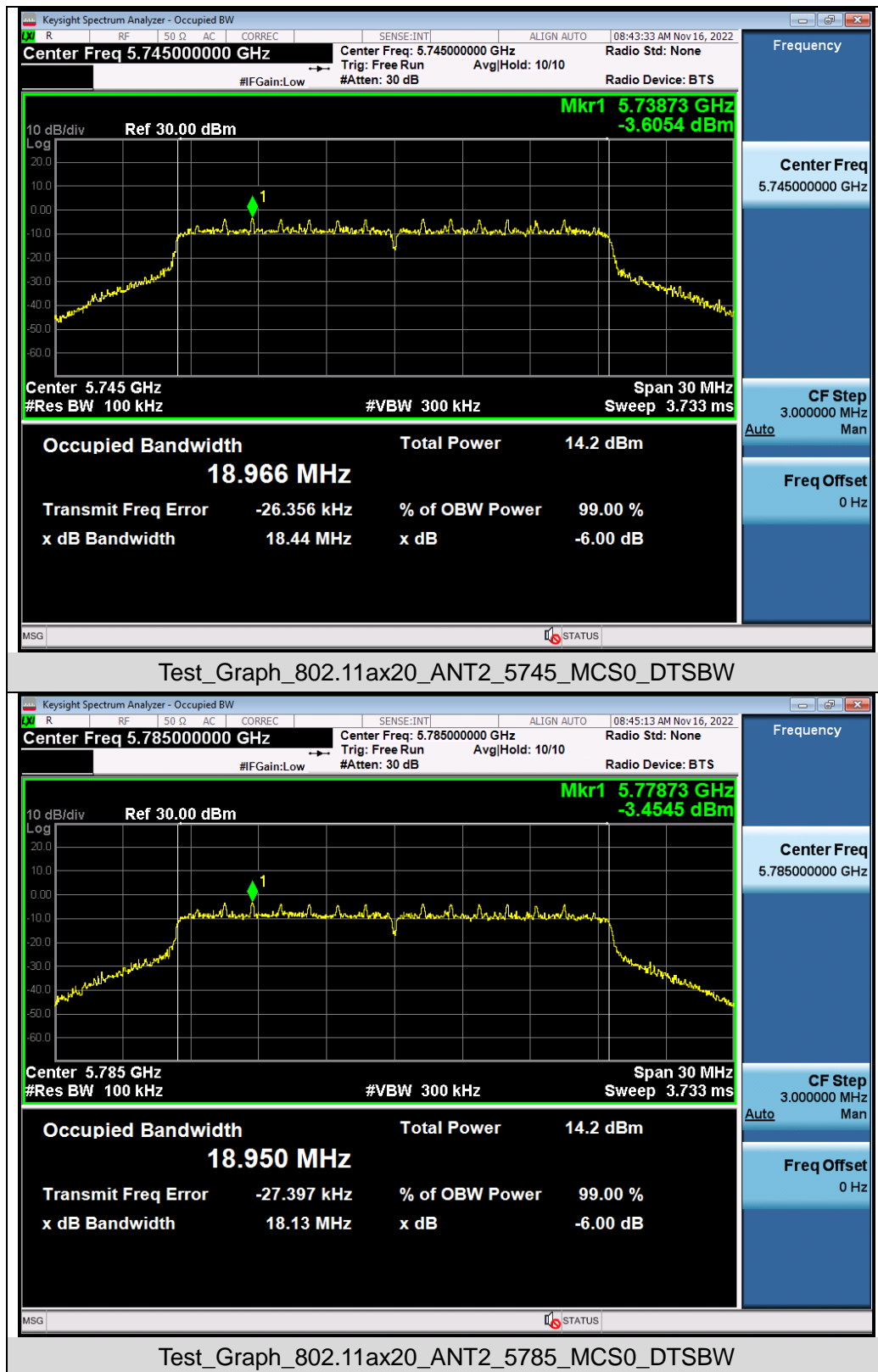


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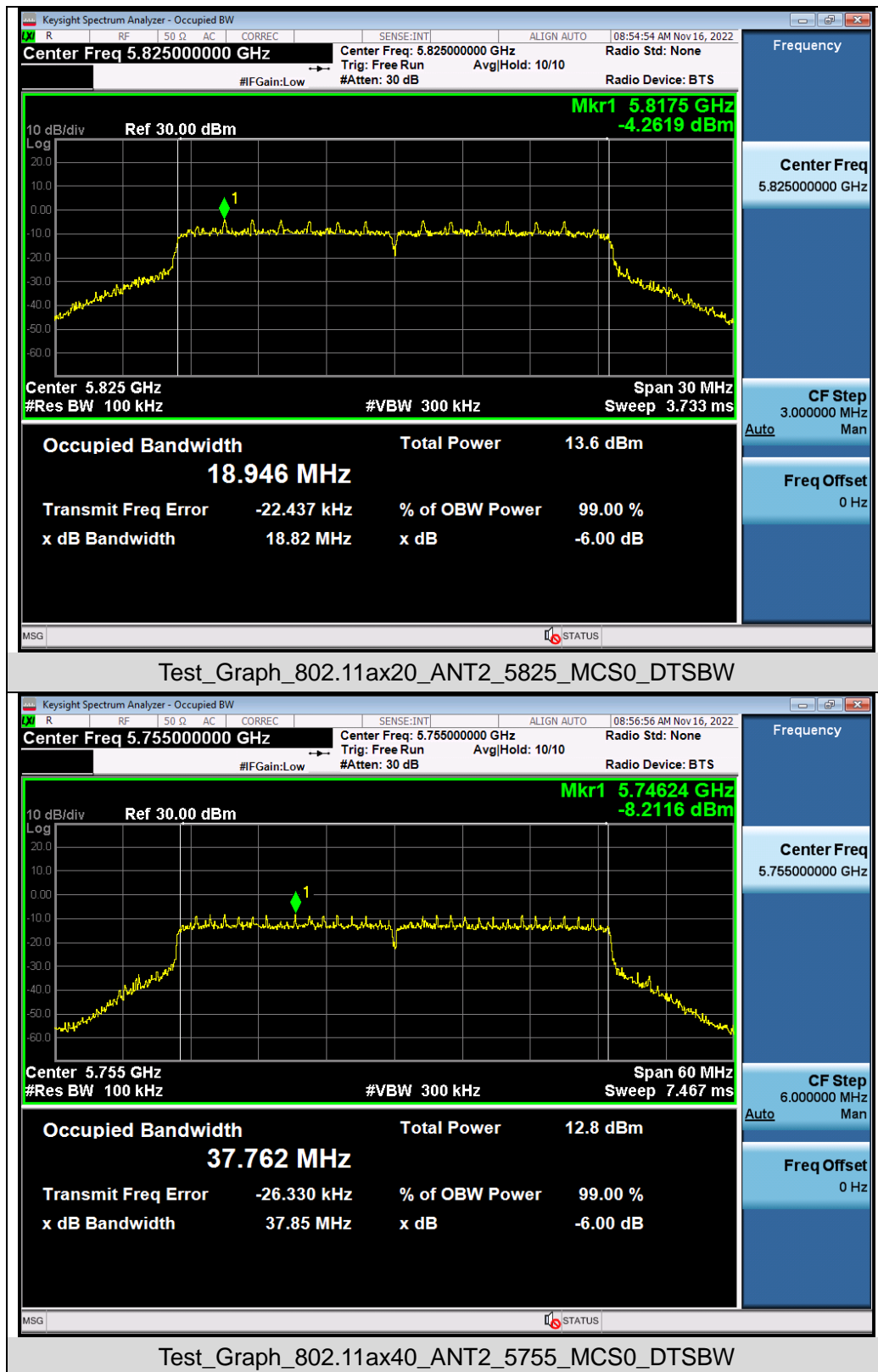


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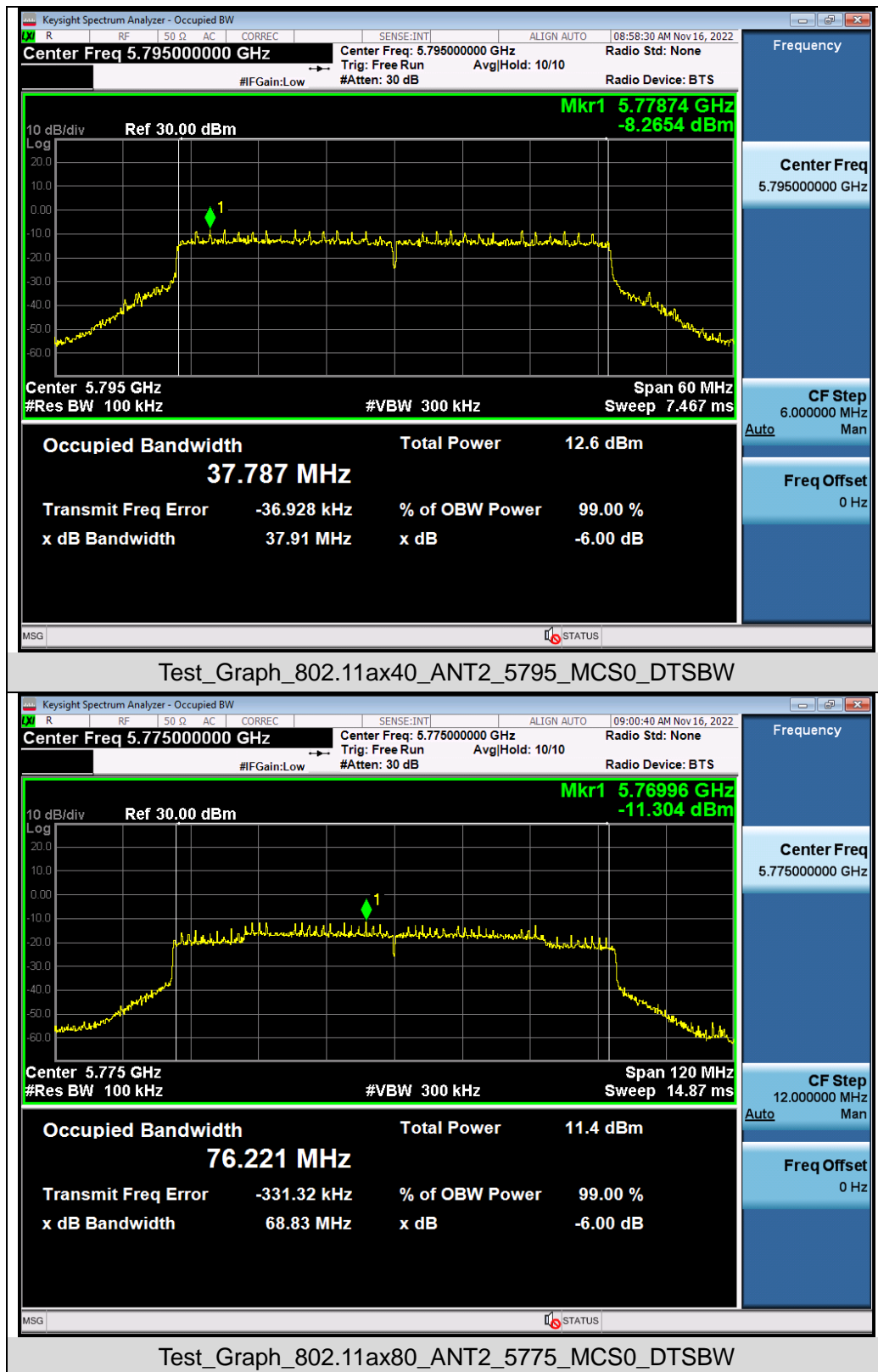
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8. POWER SPECTRAL DENSITY MEASUREMENT

8.1 MEASUREMENT LIMITS

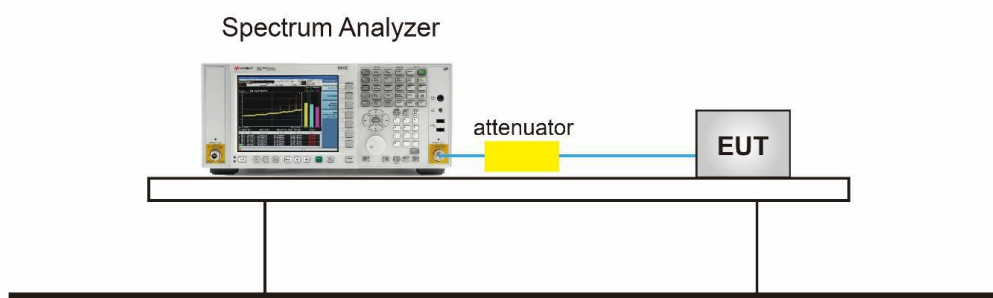
| Operation Band | EUT Category | | LIMIT |
|----------------|-------------------------------------|-----------------------------------|---------------|
| U-NII-1 | <input type="checkbox"/> | Outdoor Access Point | 17dBm/ MHz |
| | <input type="checkbox"/> | Fixed point-to-point Access Point | 17dBm/ MHz |
| | <input type="checkbox"/> | Indoor Access Point | 17dBm/ MHz |
| | <input checked="" type="checkbox"/> | Client devices | 11dBm/ MHz |
| U-NII-2A | / | | 11dBm/ MHz |
| U-NII-2C | / | | 11dBm/ MHz |
| U-NII-3 | / | | 30 dBm/500kHz |

8.2 MEASUREMENT PROCEDURE

☒ For Average power spectral density test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz.
4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
5. Set VBW $\geq [3 \times \text{RBW}]$.
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of Maximum PSD is specified in 100 kHz, add a constant factor $10 \times \log(500\text{kHz}/100\text{kHz}) = 6.99 \text{ dB}$ to the measured result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add $[10 \log (1/D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.
12. Record the test results in the report.

8.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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8.4 MEASUREMENT RESULT

| Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-ANT 1 | | | | |
|--|--------------------|---------------------------------|------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a | 5180 | 1.482 | 9.47 | Pass |
| | 5200 | 2.076 | 9.47 | Pass |
| | 5240 | 2.425 | 9.47 | Pass |
| 802.11n20 | 5180 | 0.643 | 9.47 | Pass |
| | 5200 | 1.143 | 9.47 | Pass |
| | 5240 | 1.577 | 9.47 | Pass |
| 802.11n40 | 5190 | -2.733 | 9.47 | Pass |
| | 5230 | -1.769 | 9.47 | Pass |
| 802.11ac20 | 5180 | 0.351 | 9.47 | Pass |
| | 5200 | 0.726 | 9.47 | Pass |
| | 5240 | 0.862 | 9.47 | Pass |
| 802.11ac40 | 5190 | -3.197 | 9.47 | Pass |
| | 5230 | -2.670 | 9.47 | Pass |
| 802.11ac80 | 5210 | -6.481 | 9.47 | Pass |
| 802.11ax20 | 5180 | -0.796 | 9.47 | Pass |
| | 5200 | -0.370 | 9.47 | Pass |
| | 5240 | -0.137 | 9.47 | Pass |
| 802.11ax40 | 5190 | -3.924 | 9.47 | Pass |
| | 5230 | -3.671 | 9.47 | Pass |
| 802.11ax80 | 5210 | -7.154 | 9.47 | Pass |

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| Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-ANT 2 | | | | |
|--|--------------------|---------------------------------|------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a | 5180 | 1.501 | 9.76 | Pass |
| | 5200 | 1.483 | 9.76 | Pass |
| | 5240 | 1.625 | 9.76 | Pass |
| 802.11n20 | 5180 | 0.925 | 9.76 | Pass |
| | 5200 | 0.858 | 9.76 | Pass |
| | 5240 | 1.245 | 9.76 | Pass |
| 802.11n40 | 5190 | -2.800 | 9.76 | Pass |
| | 5230 | -2.522 | 9.76 | Pass |
| 802.11ac20 | 5180 | 0.355 | 9.76 | Pass |
| | 5200 | 0.344 | 9.76 | Pass |
| | 5240 | 0.428 | 9.76 | Pass |
| 802.11ac40 | 5190 | -3.567 | 9.76 | Pass |
| | 5230 | -3.435 | 9.76 | Pass |
| 802.11ac80 | 5210 | -6.742 | 9.76 | Pass |
| 802.11ax20 | 5180 | -0.681 | 9.76 | Pass |
| | 5200 | -0.629 | 9.76 | Pass |
| | 5240 | -0.455 | 9.76 | Pass |
| 802.11ax40 | 5190 | -4.071 | 9.76 | Pass |
| | 5230 | -3.782 | 9.76 | Pass |
| 802.11ax80 | 5210 | -7.089 | 9.76 | Pass |

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| Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-MIMO | | | | |
|---|--------------------|---------------------------------|------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11n20 | 5180 | 3.797 | 6.46 | Pass |
| | 5200 | 4.013 | 6.46 | Pass |
| | 5240 | 4.424 | 6.46 | Pass |
| 802.11n40 | 5190 | 0.244 | 6.46 | Pass |
| | 5230 | 0.881 | 6.46 | Pass |
| 802.11ac20 | 5180 | 3.363 | 6.46 | Pass |
| | 5200 | 3.549 | 6.46 | Pass |
| | 5240 | 3.661 | 6.46 | Pass |
| 802.11ac40 | 5190 | -0.368 | 6.46 | Pass |
| | 5230 | -0.025 | 6.46 | Pass |
| 802.11ac80 | 5210 | -3.599 | 6.46 | Pass |
| 802.11ax20 | 5180 | 2.272 | 6.46 | Pass |
| | 5200 | 2.513 | 6.46 | Pass |
| | 5240 | 2.717 | 6.46 | Pass |
| 802.11ax40 | 5190 | -0.987 | 6.46 | Pass |
| | 5230 | -0.716 | 6.46 | Pass |
| 802.11ax80 | 5210 | -4.111 | 6.46 | Pass |

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| Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-ANT 1 | | | | | |
|---|--------------------|------------------------------------|------------------------------------|---------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/100kHz) | Average Power Density (dBm/500kHz) | Limits (dBm/500kHz) | Pass or Fail |
| 802.11a | 5745 | -8.424 | -1.434 | 28.47 | Pass |
| | 5785 | -7.354 | -0.364 | 28.47 | Pass |
| | 5825 | -8.406 | -1.416 | 28.47 | Pass |
| 802.11n20 | 5745 | -7.024 | -0.034 | 28.47 | Pass |
| | 5785 | -8.214 | -1.224 | 28.47 | Pass |
| | 5825 | -8.110 | -1.120 | 28.47 | Pass |
| 802.11n40 | 5755 | -12.175 | -5.185 | 28.47 | Pass |
| | 5795 | -12.468 | -5.478 | 28.47 | Pass |
| 802.11ac20 | 5745 | -9.060 | -2.070 | 28.47 | Pass |
| | 5785 | -9.258 | -2.268 | 28.47 | Pass |
| | 5825 | -8.822 | -1.832 | 28.47 | Pass |
| 802.11ac40 | 5755 | -13.168 | -6.178 | 28.47 | Pass |
| | 5795 | -12.354 | -5.364 | 28.47 | Pass |
| 802.11ac80 | 5775 | -15.775 | -8.785 | 28.47 | Pass |
| 802.11ax20 | 5745 | -11.078 | -4.088 | 28.47 | Pass |
| | 5785 | -11.257 | -4.267 | 28.47 | Pass |
| | 5825 | -10.683 | -3.693 | 28.47 | Pass |
| 802.11ax40 | 5755 | -13.798 | -6.808 | 28.47 | Pass |
| | 5795 | -14.319 | -7.329 | 28.47 | Pass |
| 802.11ax80 | 5775 | -16.674 | -9.684 | 28.47 | Pass |

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| Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-ANT 2 | | | | | |
|---|--------------------|------------------------------------|------------------------------------|---------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/100kHz) | Average Power Density (dBm/500kHz) | Limits (dBm/500kHz) | Pass or Fail |
| 802.11a | 5745 | -8.194 | -1.204 | 28.76 | Pass |
| | 5785 | -8.156 | -1.166 | 28.76 | Pass |
| | 5825 | -8.999 | -2.009 | 28.76 | Pass |
| 802.11n20 | 5745 | -7.733 | -0.743 | 28.76 | Pass |
| | 5785 | -8.560 | -1.570 | 28.76 | Pass |
| | 5825 | -9.373 | -2.383 | 28.76 | Pass |
| 802.11n40 | 5755 | -11.959 | -4.969 | 28.76 | Pass |
| | 5795 | -12.388 | -5.398 | 28.76 | Pass |
| 802.11ac20 | 5745 | -9.381 | -2.391 | 28.76 | Pass |
| | 5785 | -9.166 | -2.176 | 28.76 | Pass |
| | 5825 | -9.873 | -2.883 | 28.76 | Pass |
| 802.11ac40 | 5755 | -13.018 | -6.028 | 28.76 | Pass |
| | 5795 | -12.430 | -5.440 | 28.76 | Pass |
| 802.11ac80 | 5775 | -15.402 | -8.412 | 28.76 | Pass |
| 802.11ax20 | 5745 | -11.155 | -4.165 | 28.76 | Pass |
| | 5785 | -11.594 | -4.604 | 28.76 | Pass |
| | 5825 | -11.973 | -4.983 | 28.76 | Pass |
| 802.11ax40 | 5755 | -14.065 | -7.075 | 28.76 | Pass |
| | 5795 | -13.822 | -6.832 | 28.76 | Pass |
| 802.11ax80 | 5775 | -16.583 | -9.593 | 28.76 | Pass |

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| Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-MIMO | | | | | |
|--|--------------------|------------------------------------|------------------------------------|---------------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power Density (dBm/100kHz) | Average Power Density (dBm/500kHz) | Limits (dBm/500kHz) | Pass or Fail |
| 802.11n20 | 5745 | -4.354 | 2.636 | 25.46 | Pass |
| | 5785 | -5.373 | 1.617 | 25.46 | Pass |
| | 5825 | -5.685 | 1.305 | 25.46 | Pass |
| 802.11n40 | 5755 | -9.055 | -2.065 | 25.46 | Pass |
| | 5795 | -9.418 | -2.428 | 25.46 | Pass |
| 802.11ac20 | 5745 | -6.207 | 0.783 | 25.46 | Pass |
| | 5785 | -6.201 | 0.789 | 25.46 | Pass |
| | 5825 | -6.305 | 0.685 | 25.46 | Pass |
| 802.11ac40 | 5755 | -10.082 | -3.092 | 25.46 | Pass |
| | 5795 | -9.382 | -2.392 | 25.46 | Pass |
| 802.11ac80 | 5775 | -12.574 | -5.584 | 25.46 | Pass |
| 802.11ax20 | 5745 | -8.106 | -1.116 | 25.46 | Pass |
| | 5785 | -8.412 | -1.422 | 25.46 | Pass |
| | 5825 | -8.27 | -1.28 | 25.46 | Pass |
| 802.11ax40 | 5755 | -10.919 | -3.929 | 25.46 | Pass |
| | 5795 | -11.053 | -4.063 | 25.46 | Pass |
| 802.11ax80 | 5775 | -13.618 | -6.628 | 25.46 | Pass |

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

2.The Total PSD (dBm/500kHz) = $10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}$ (dBm/500kHz)

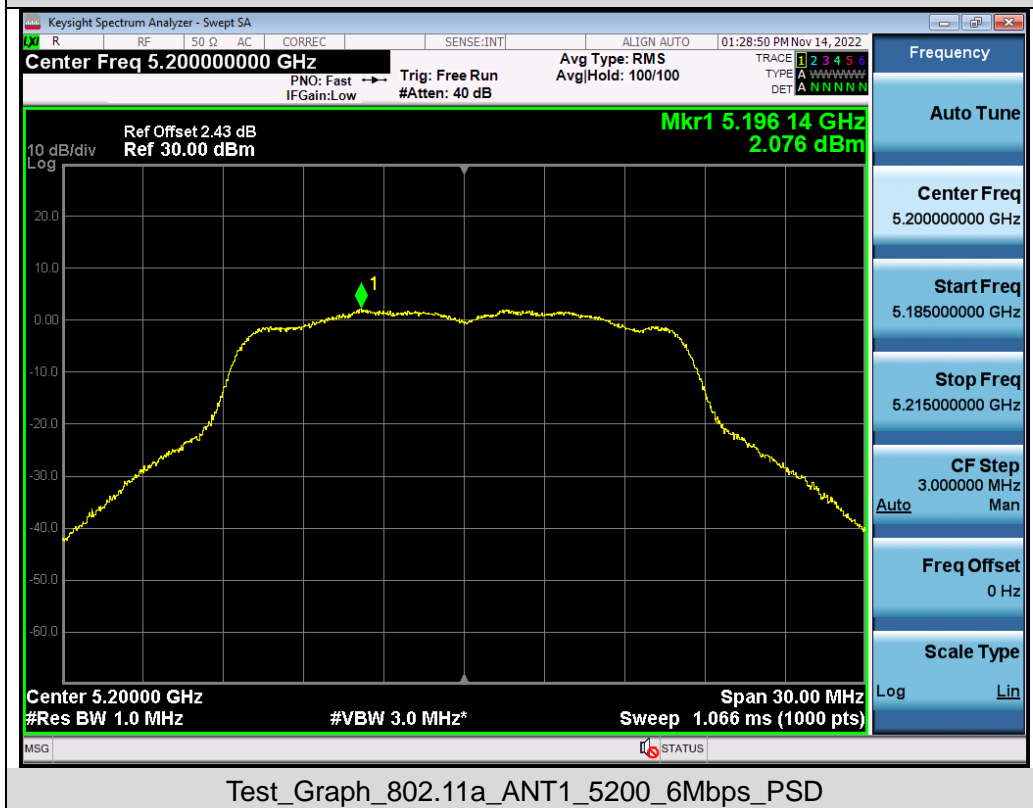
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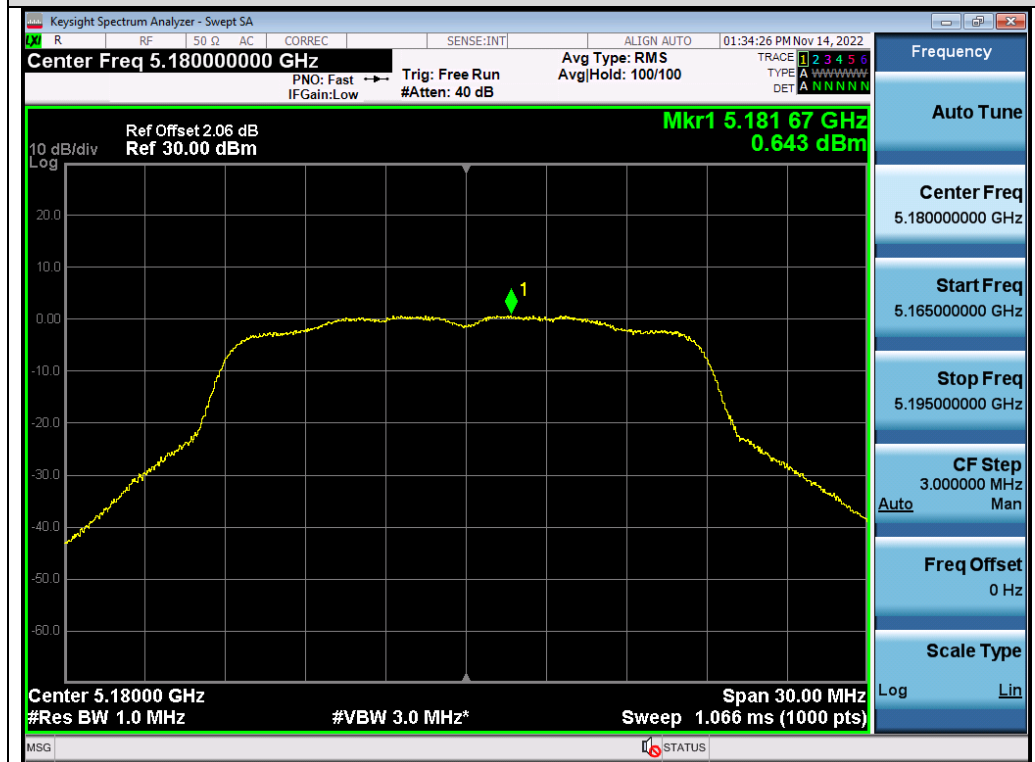
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



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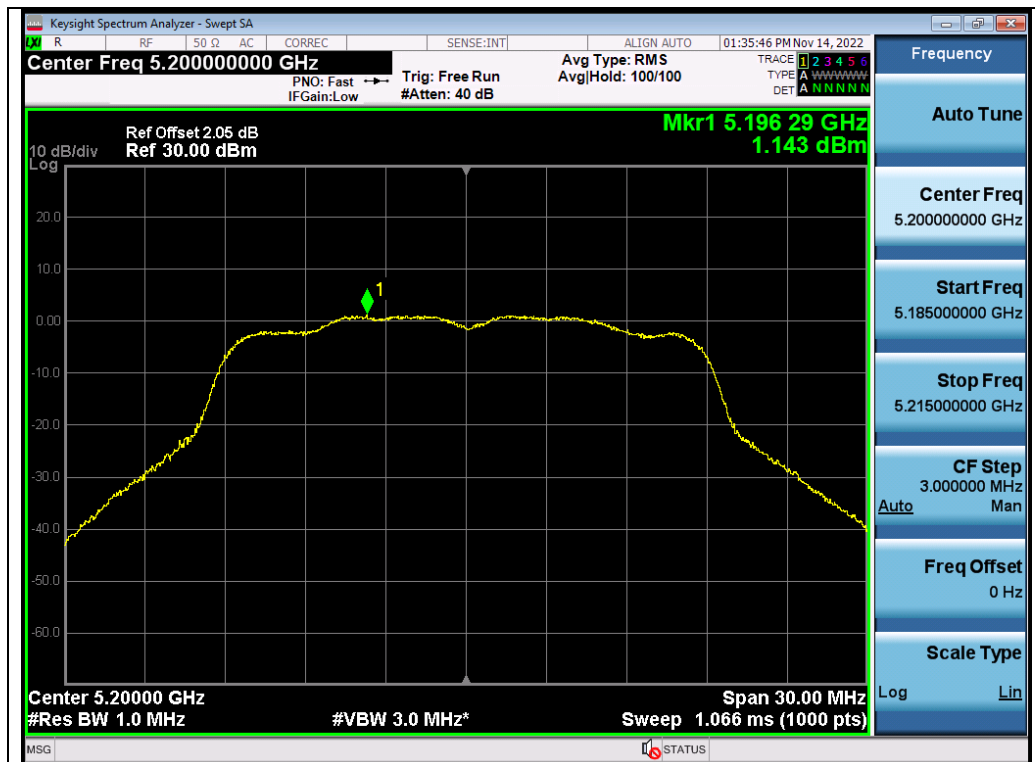


Test_Graph_802.11a_ANT1_5240_6Mbps_PSD



Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

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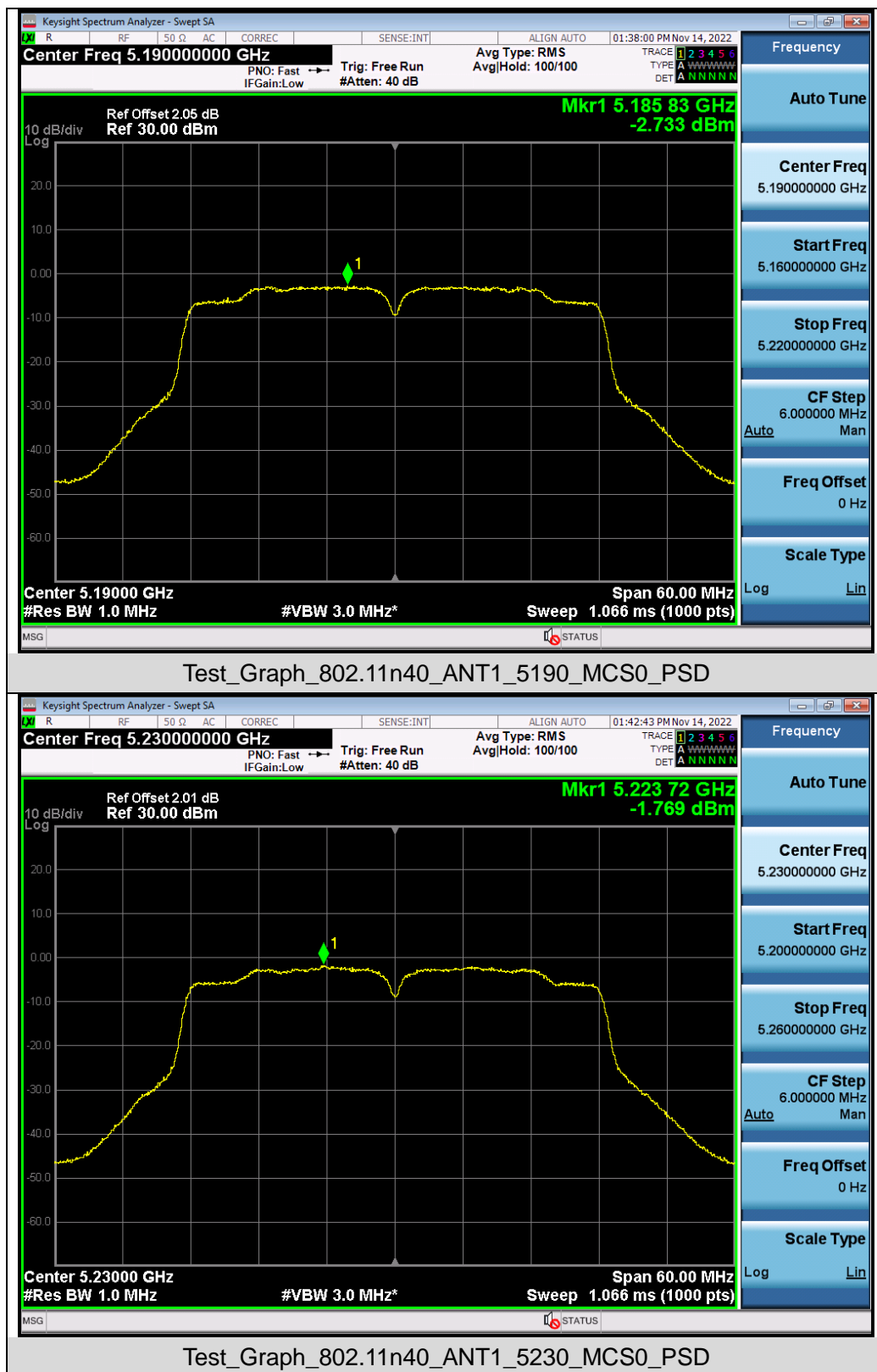


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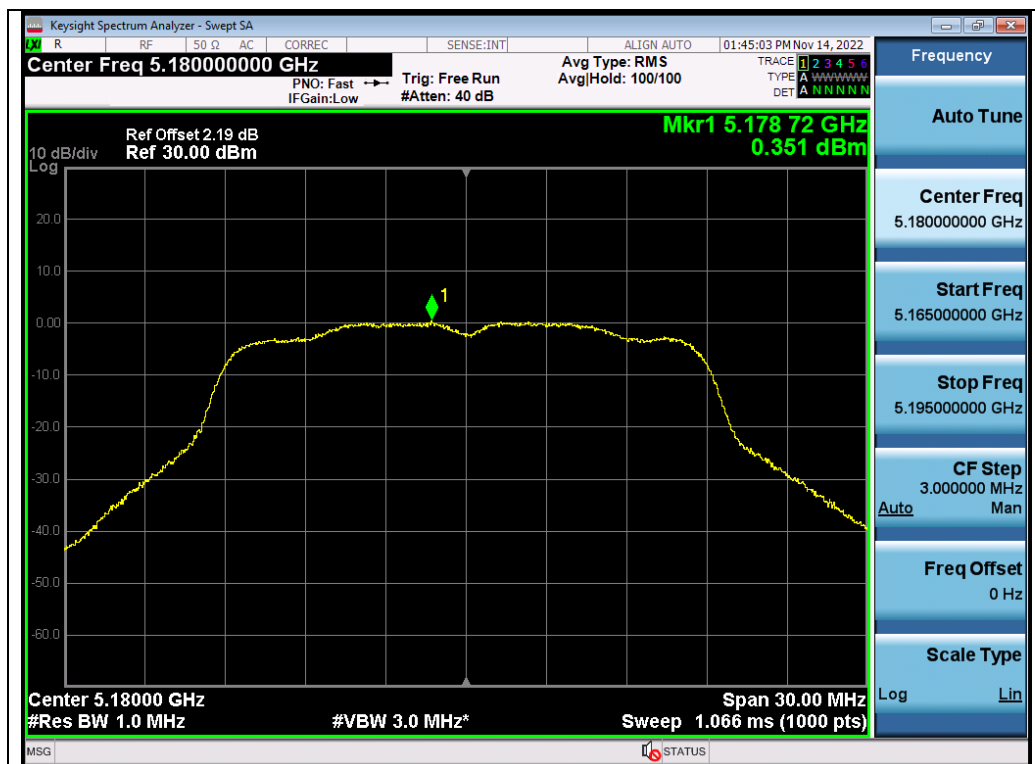


Test_Graph_802.11n20_ANT1_5240_MCS0_PSD

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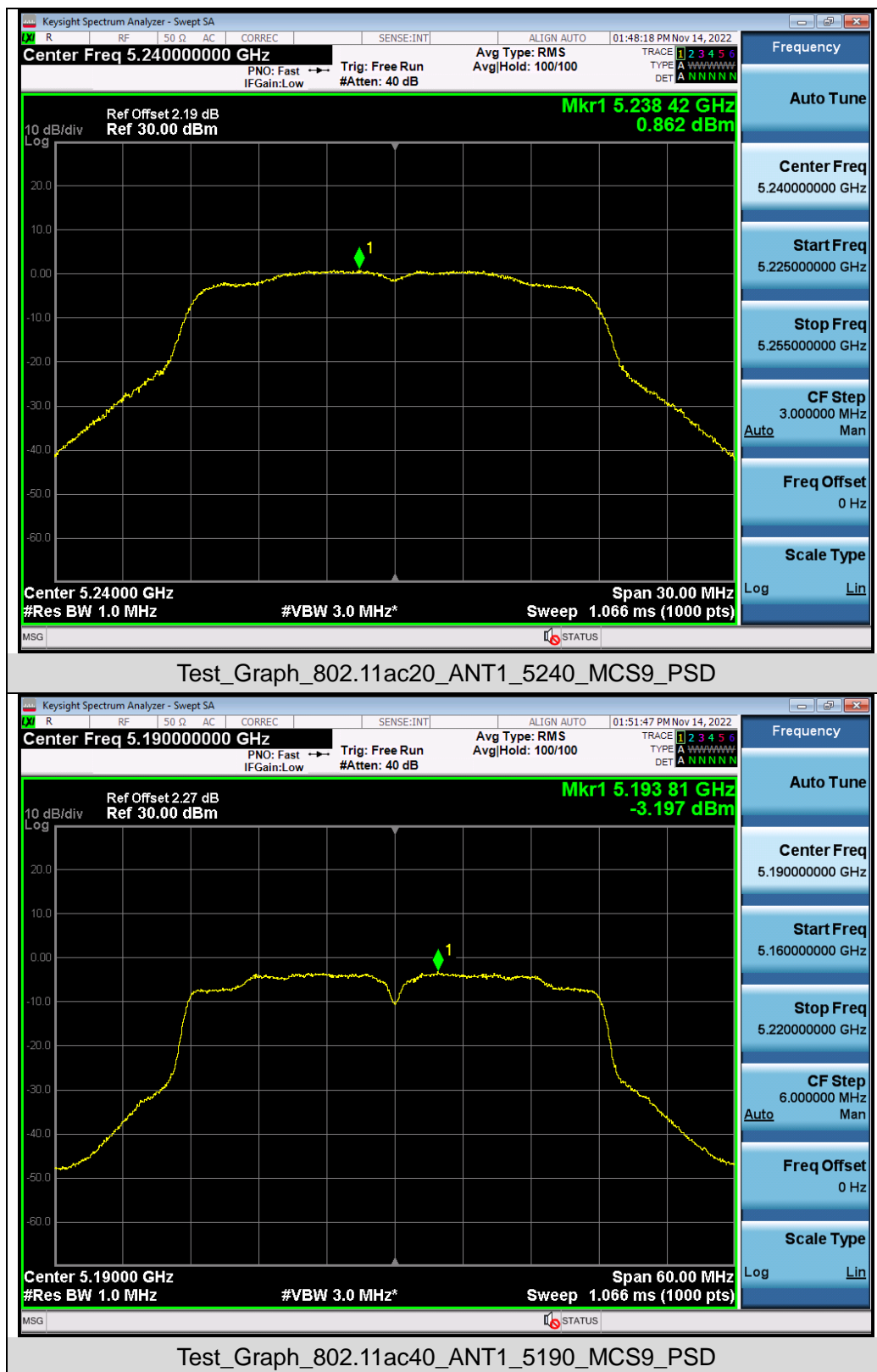
Test_Graph_802.11ac20_ANT1_5180_MCS0_PSD



Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD

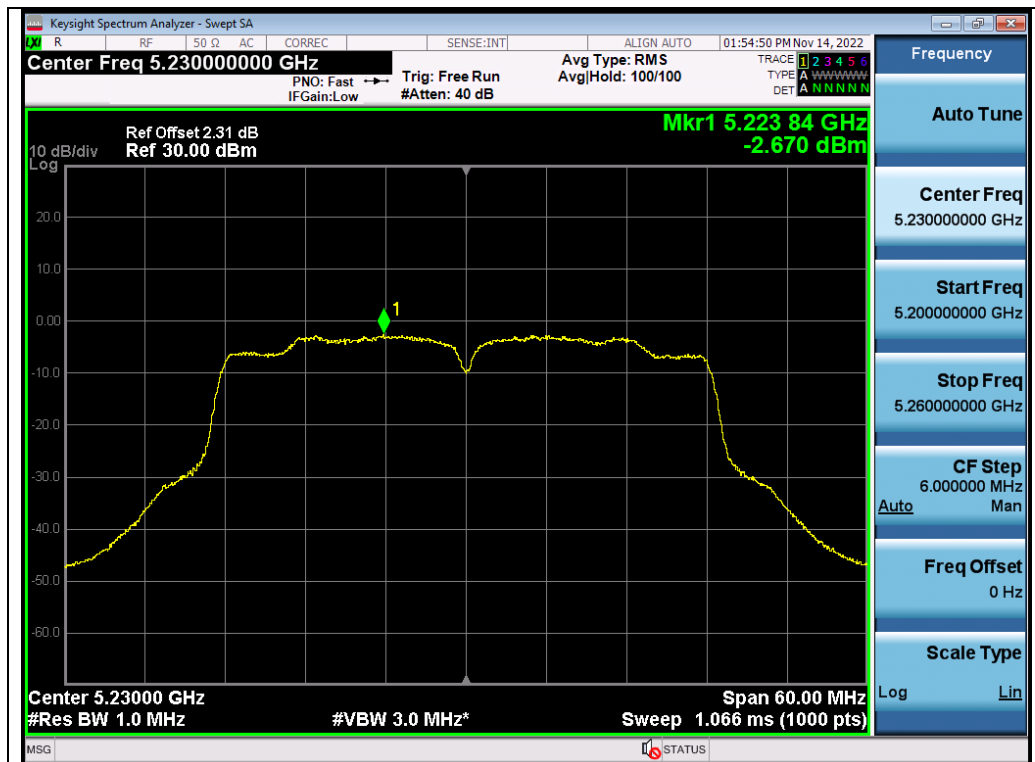
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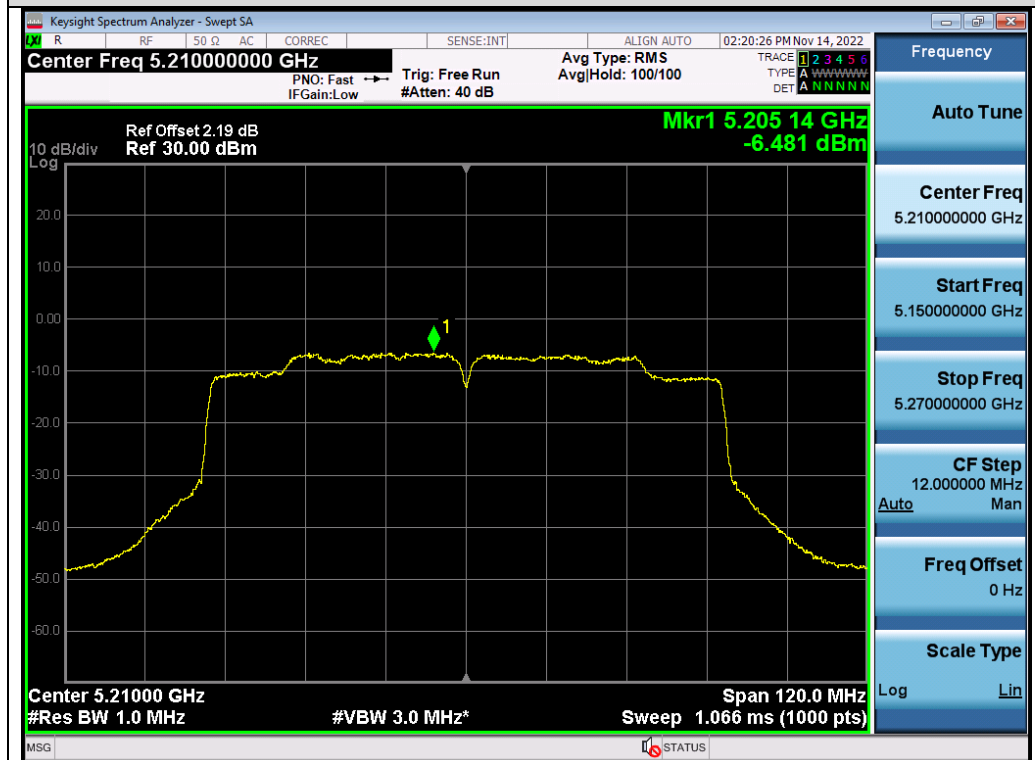


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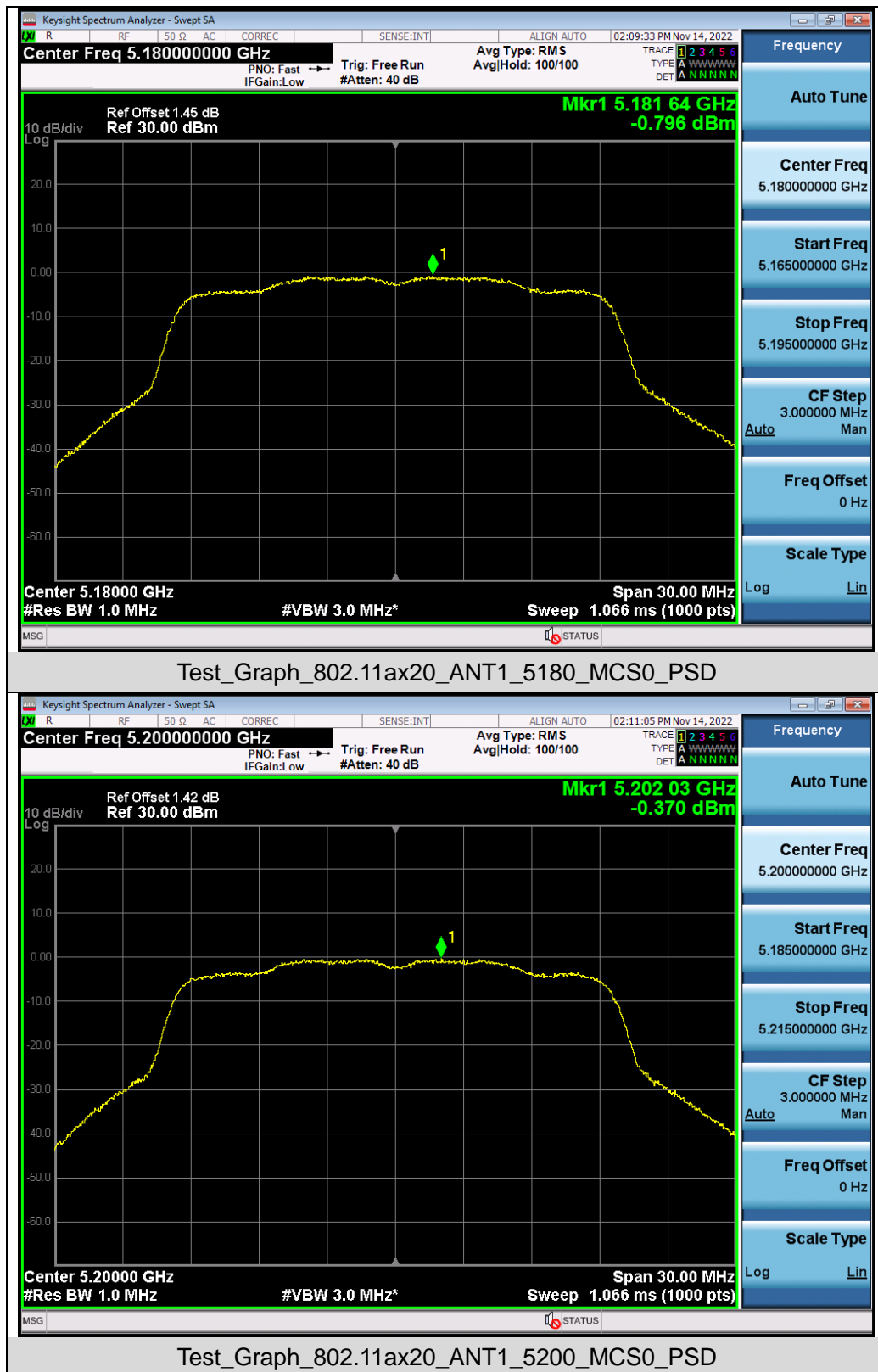


Test_Graph_802.11ac40_ANT1_5230_MCS9_PSD

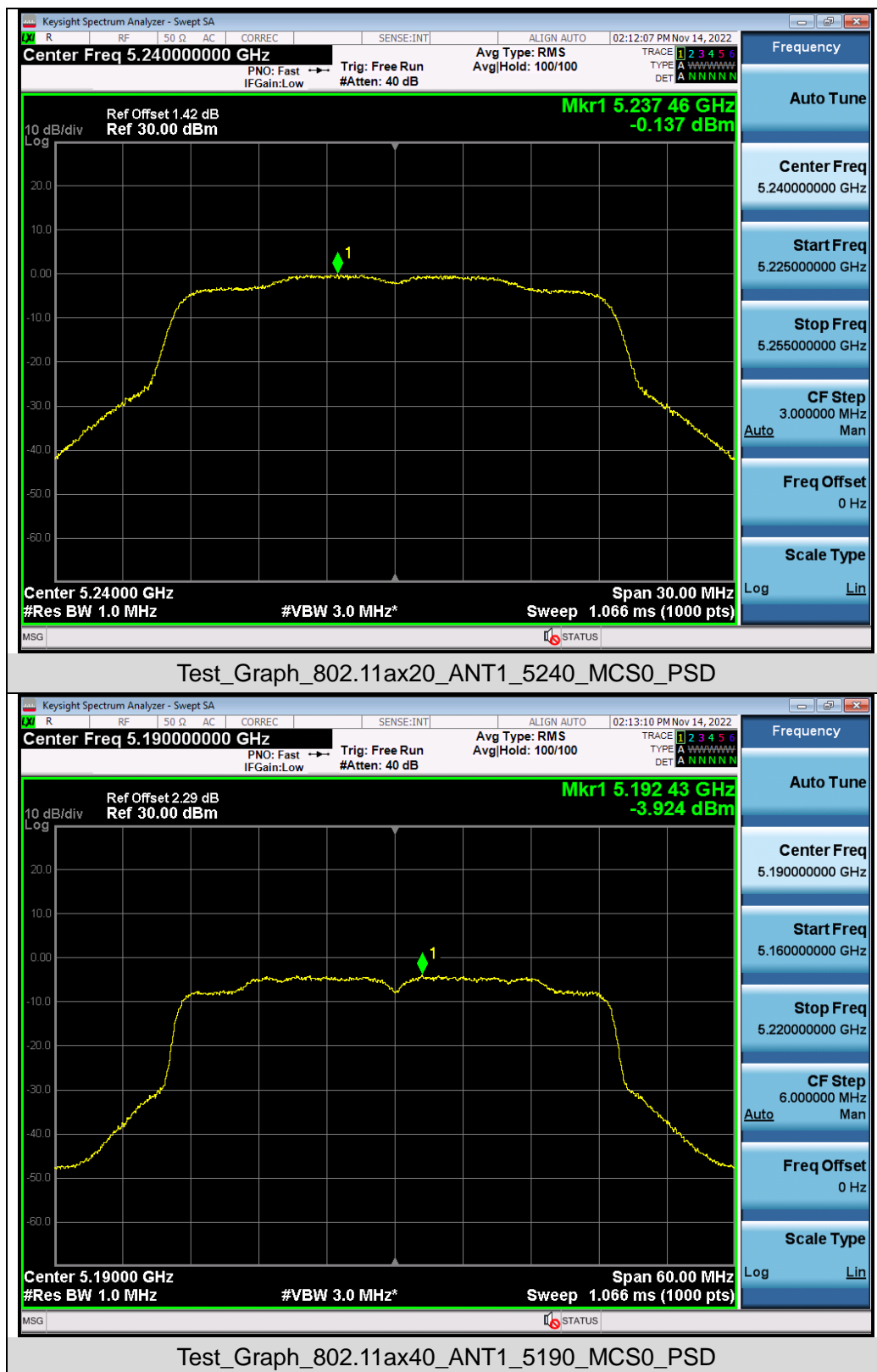


Test_Graph_802.11ac80_ANT1_5210_MCS9_PSD

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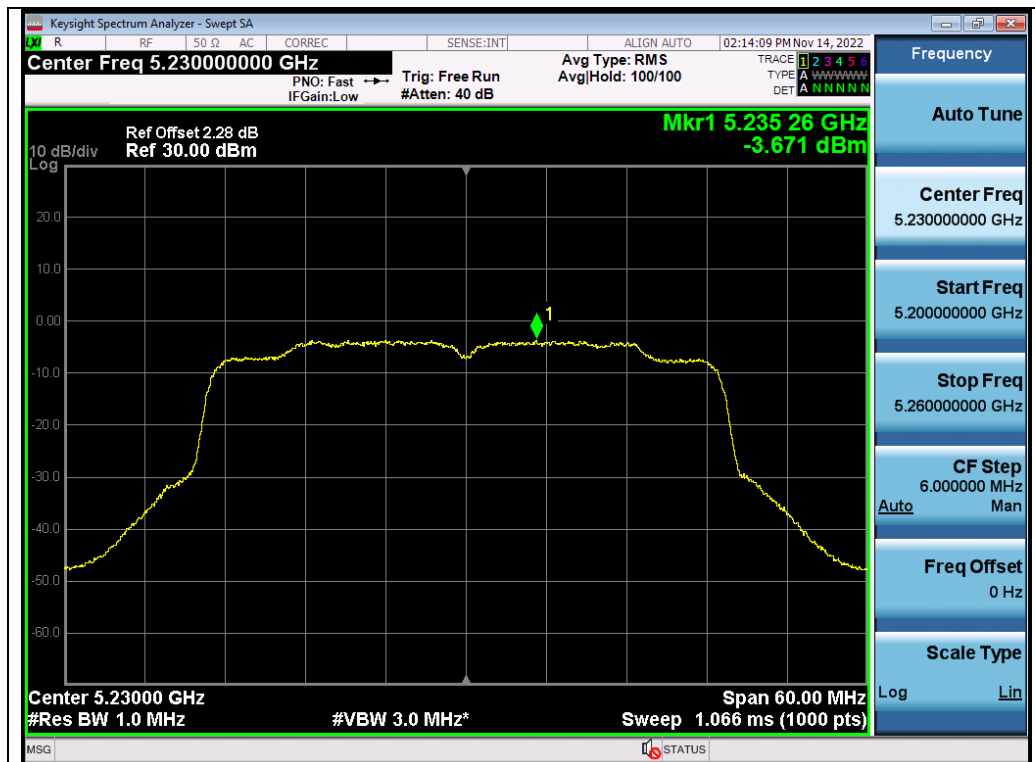


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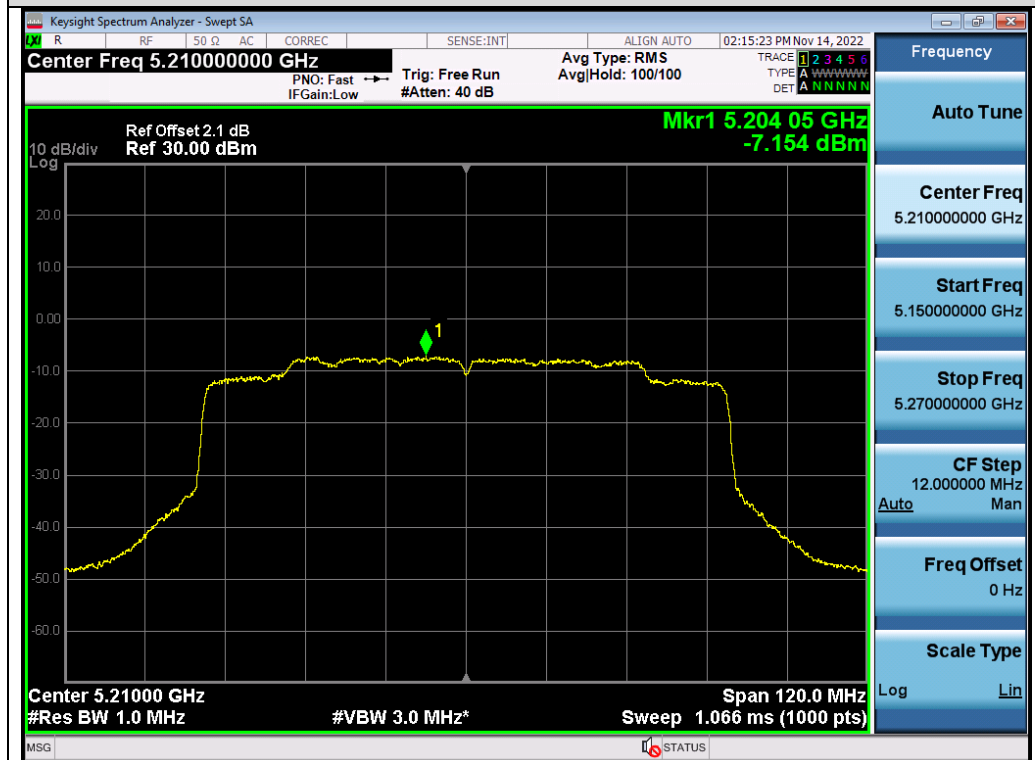


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Test_Graph_802.11ax40_ANT1_5230_MCS0_PSD



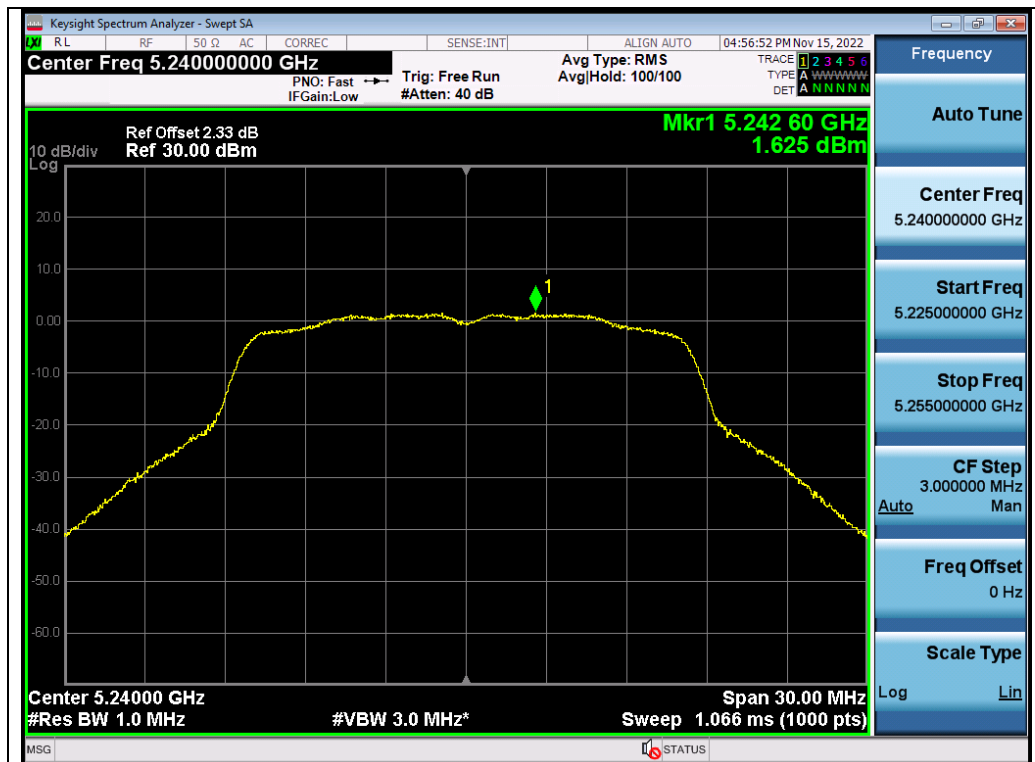
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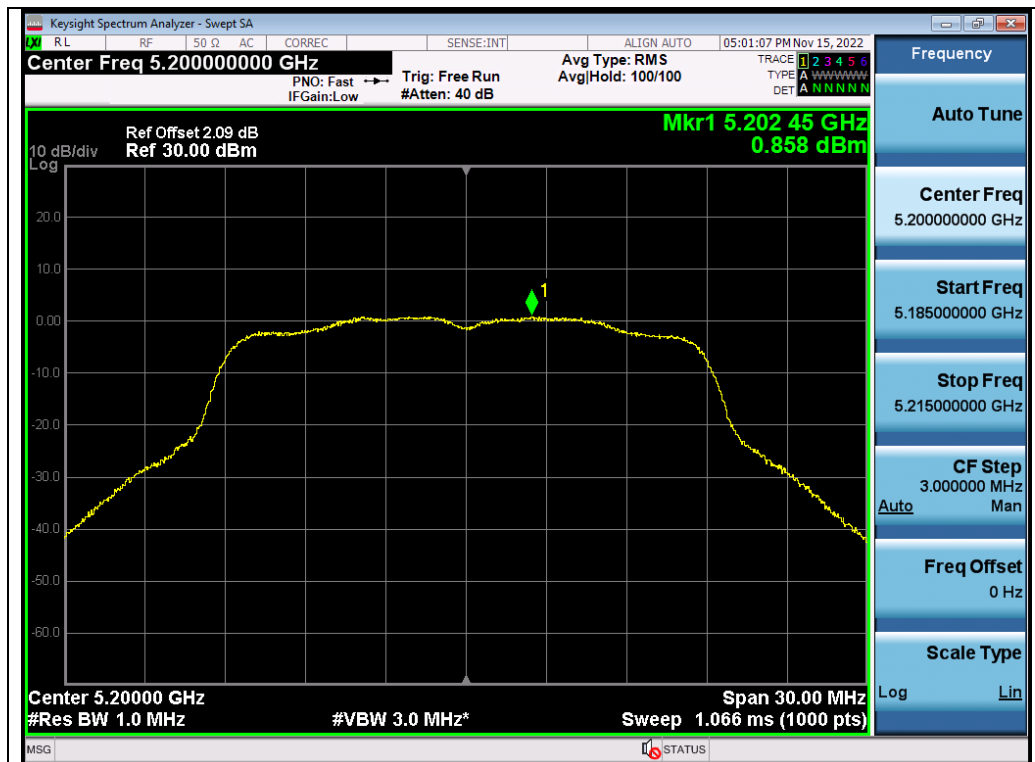
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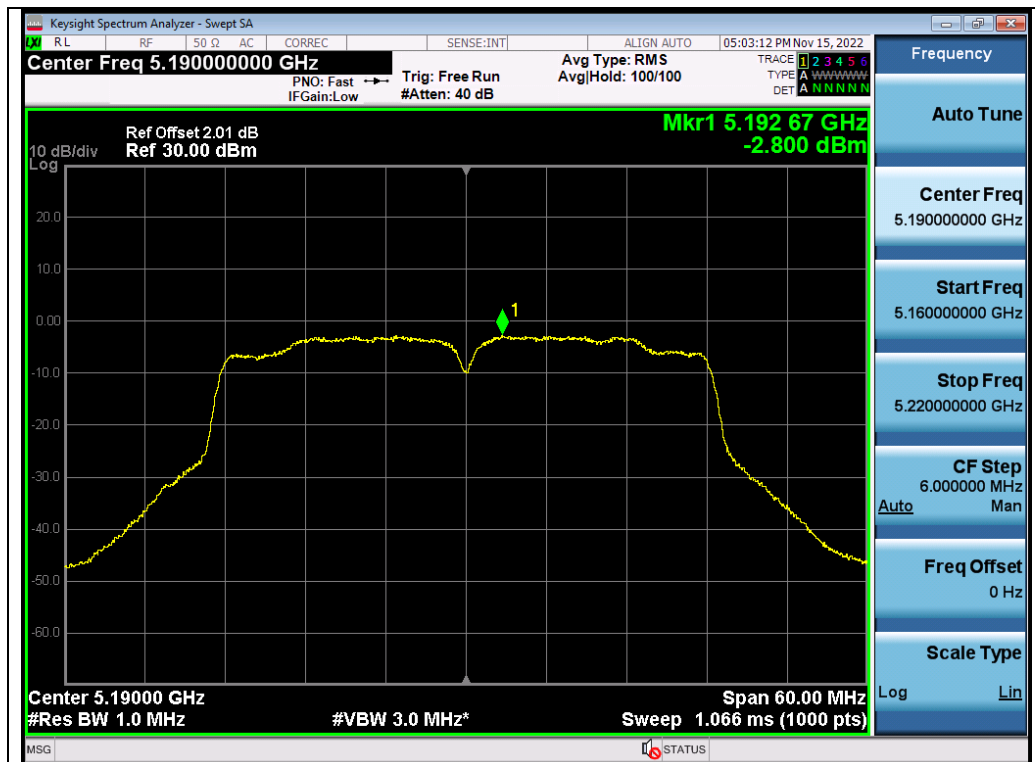


Test_Graph_802.11n20_ANT2_5200_MCS0_PSD



Test_Graph_802.11n20_ANT2_5240_MCS0_PSD

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Test_Graph_802.11n40_ANT2_5190_MCS0_PSD



Test_Graph_802.11n40_ANT2_5230_MCS0_PSD

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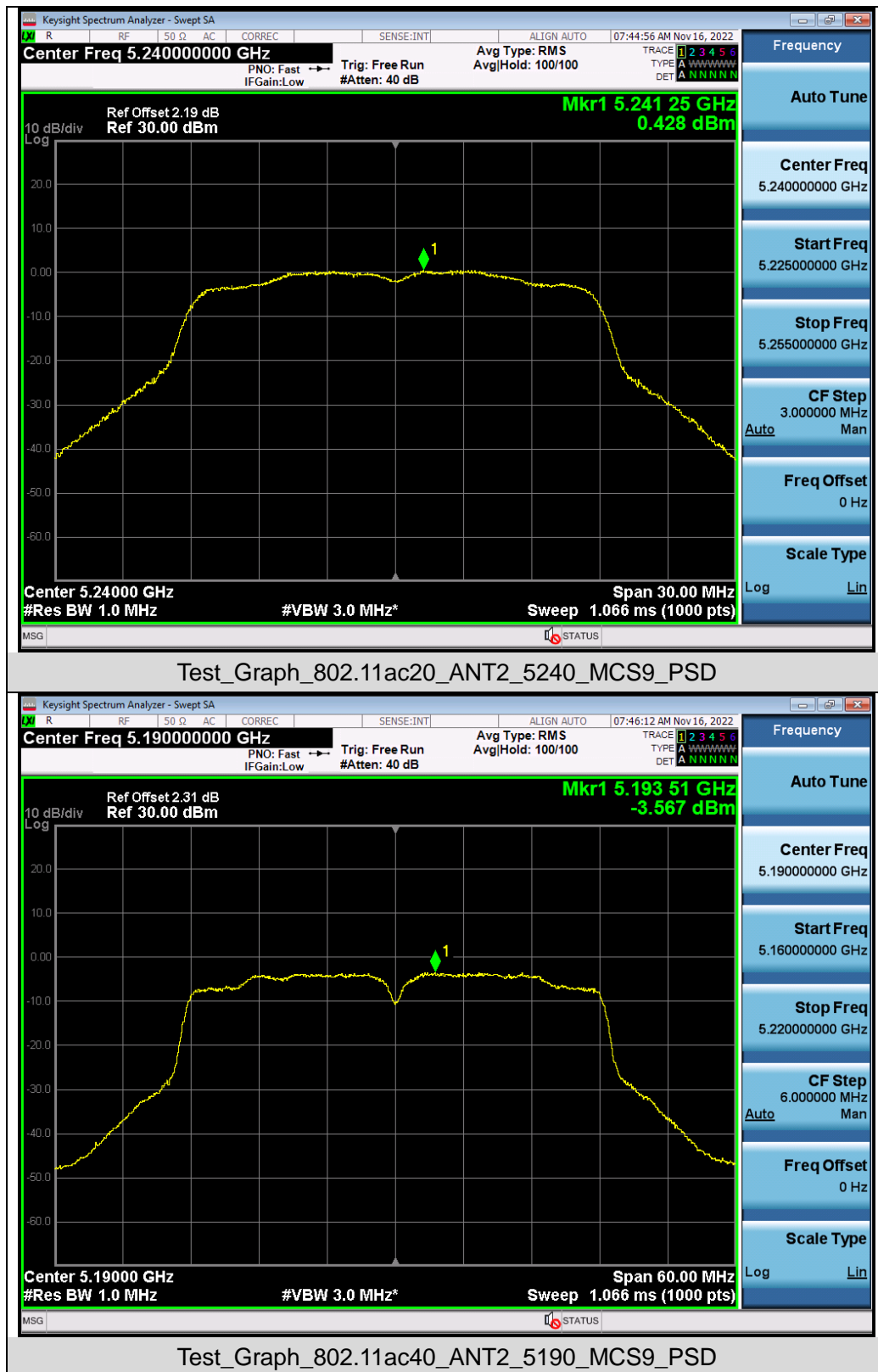


Test_Graph_802.11ac20_ANT2_5180_MCS0_PSD



Test_Graph_802.11ac20_ANT2_5200_MCS0_PSD

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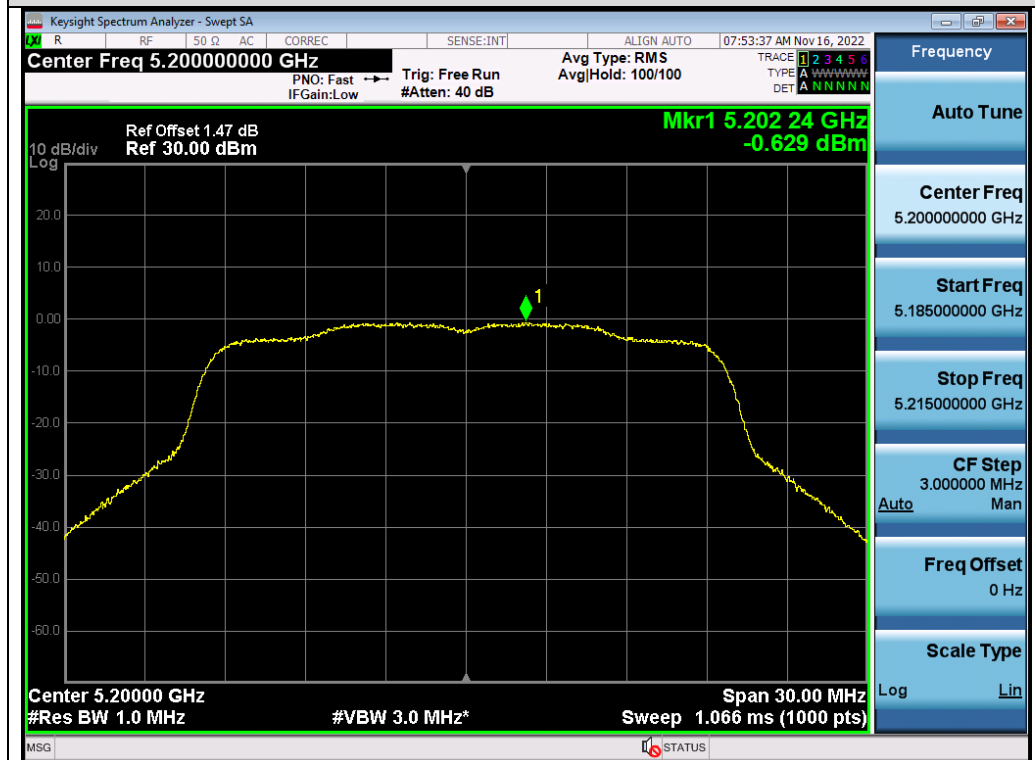


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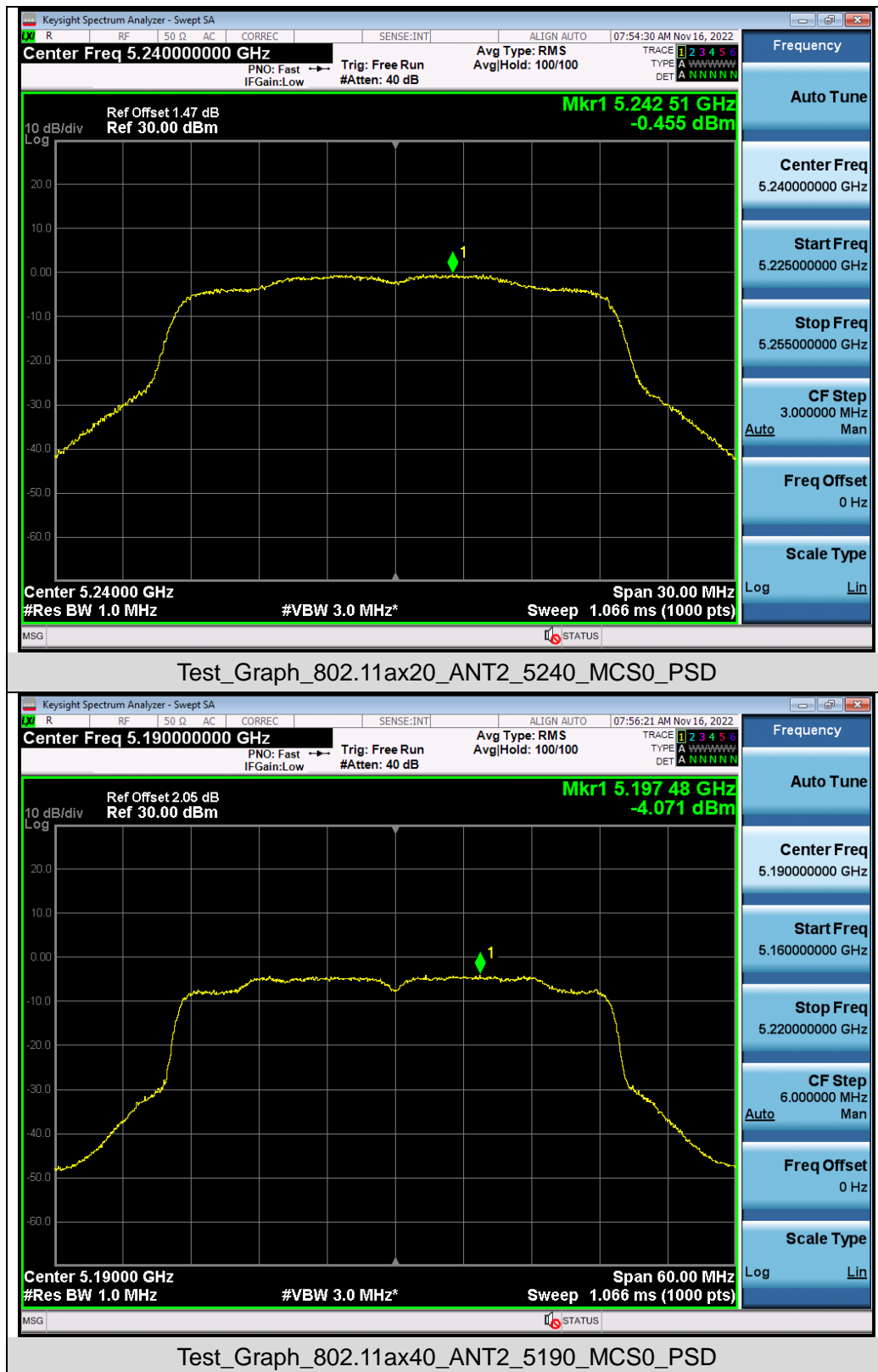


Test_Graph_802.11ax20_ANT2_5180_MCS0_PSD



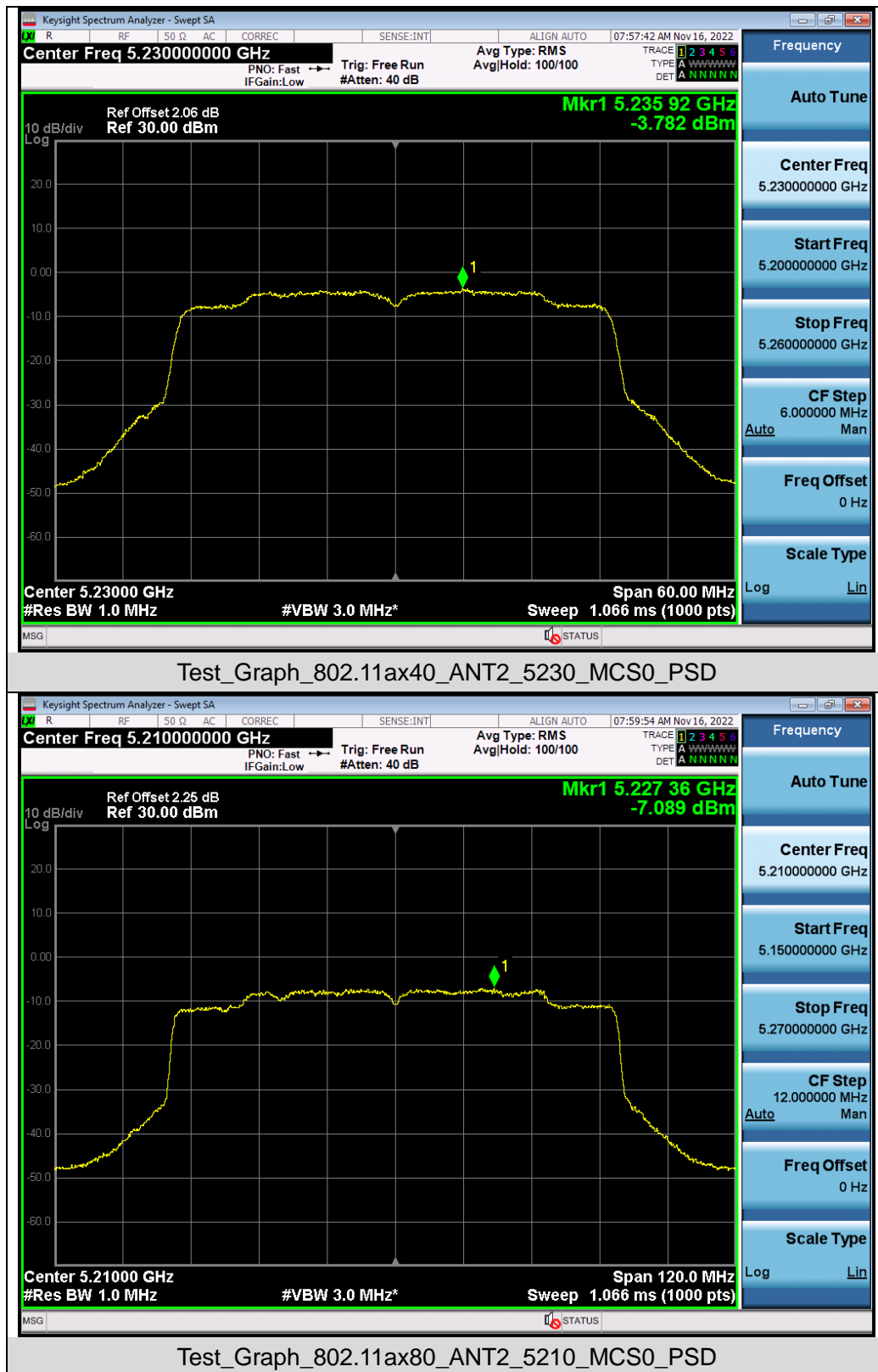
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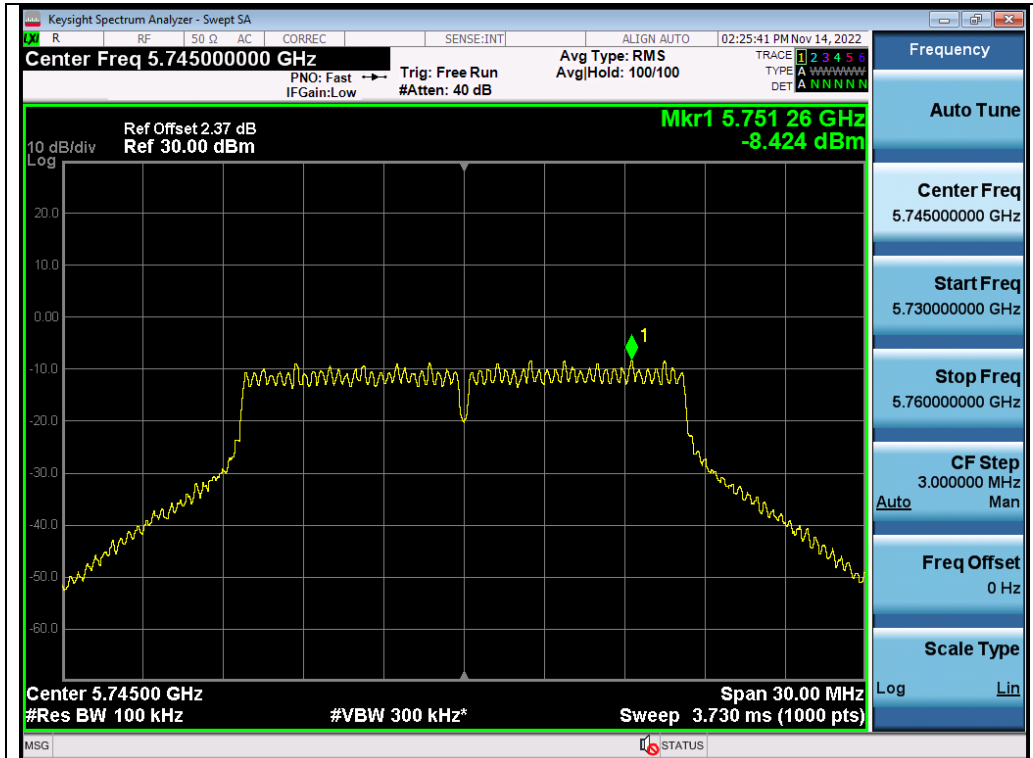
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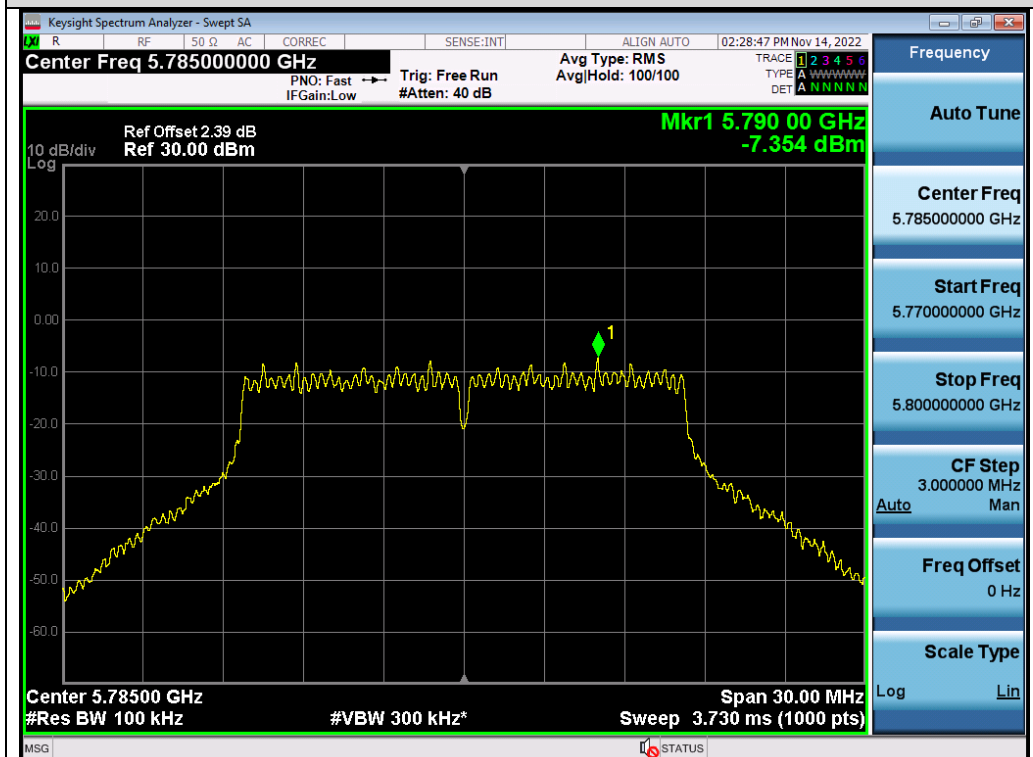


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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_PSD

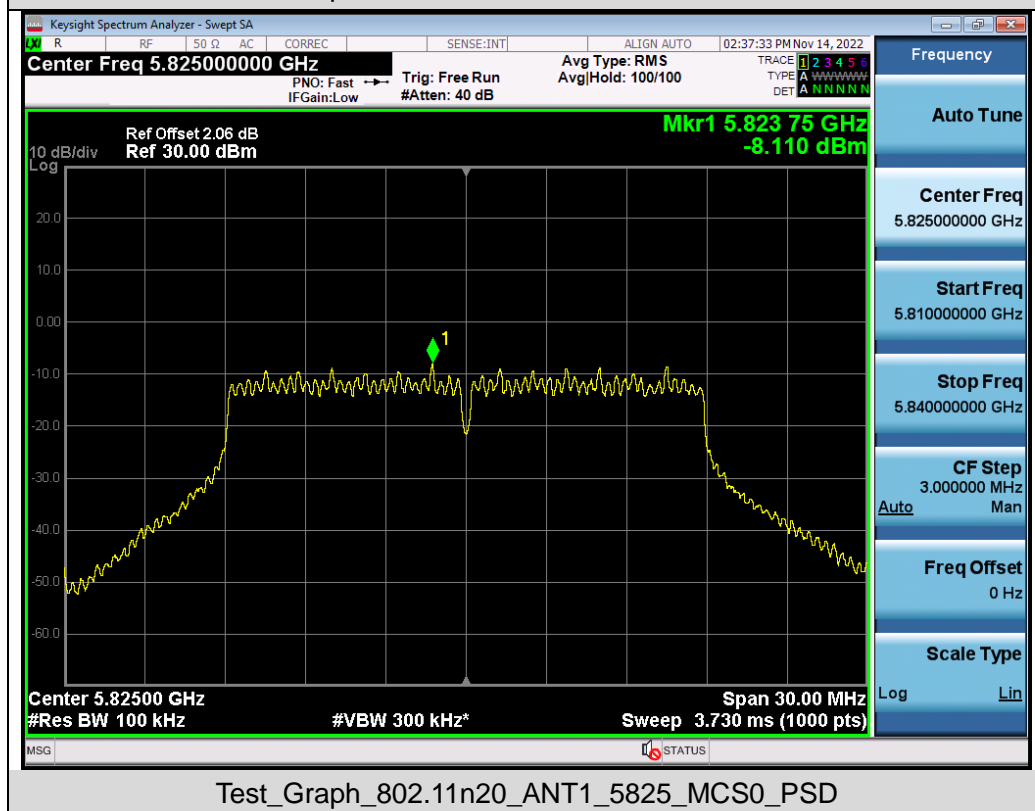
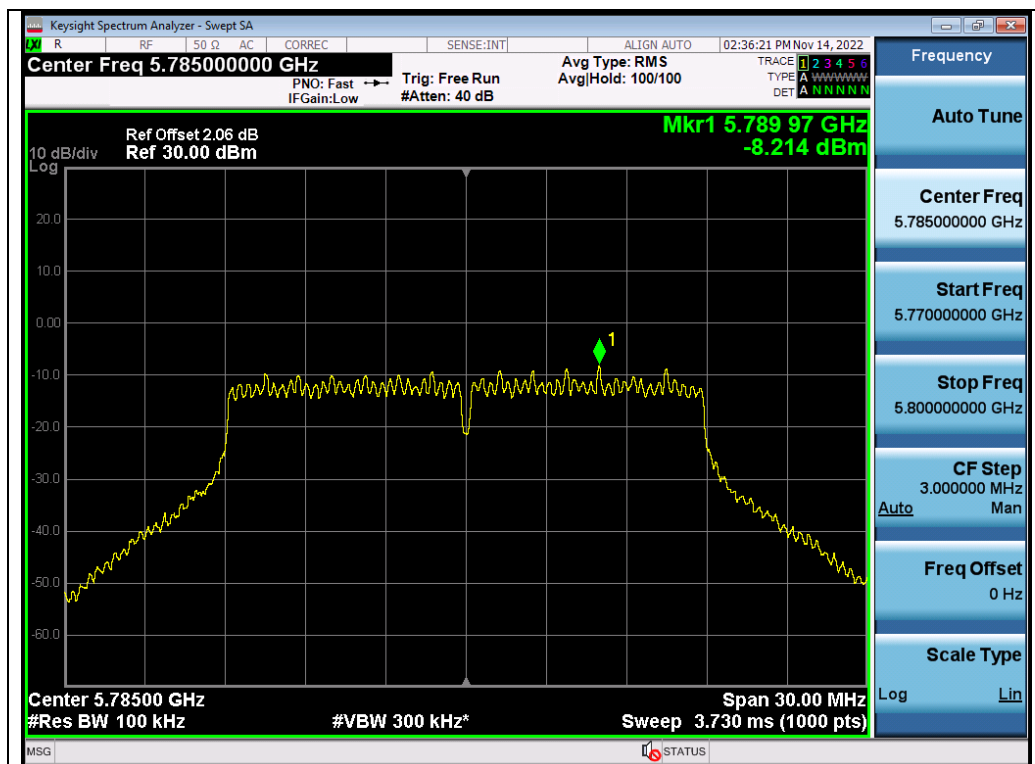


Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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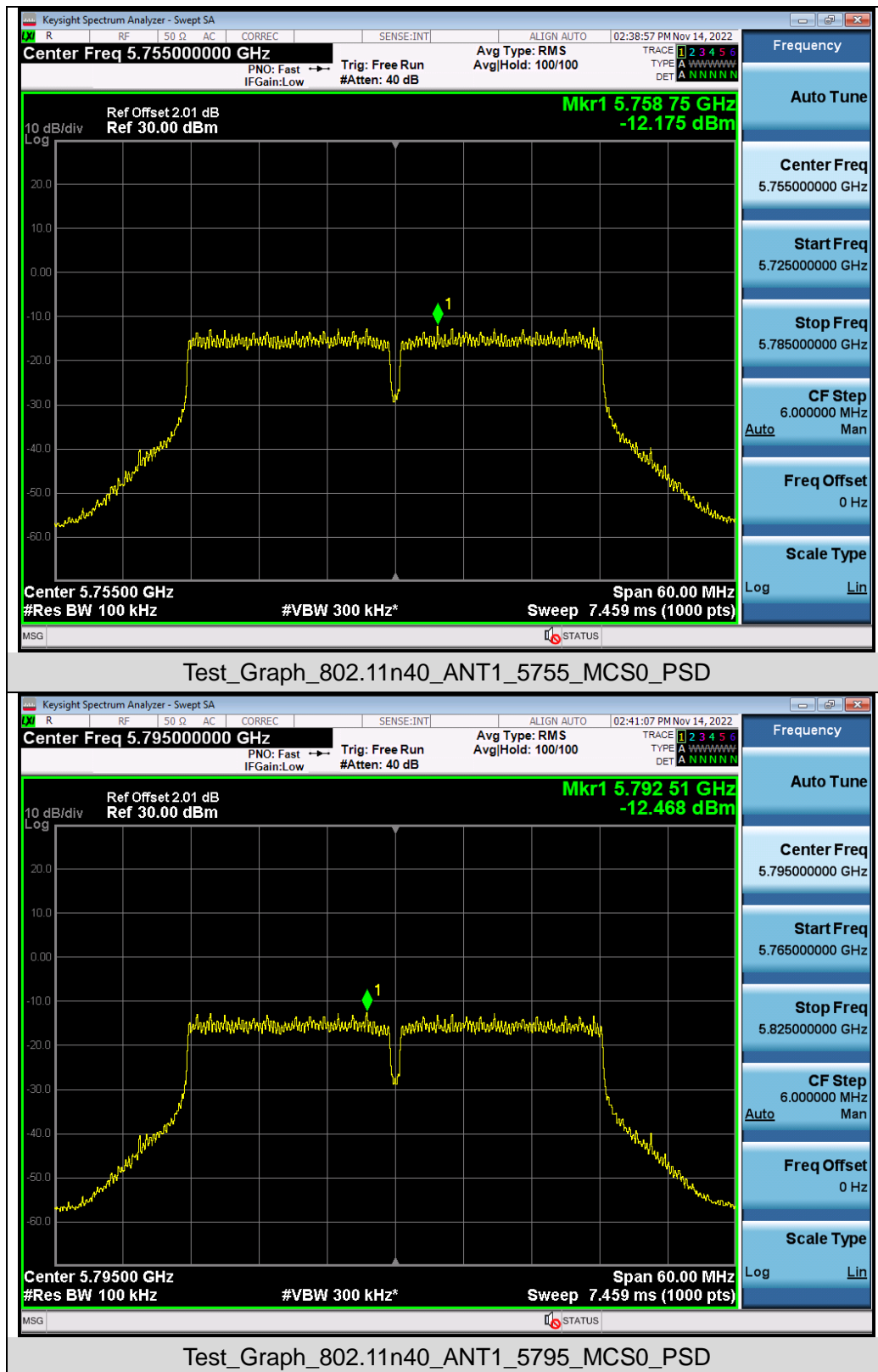


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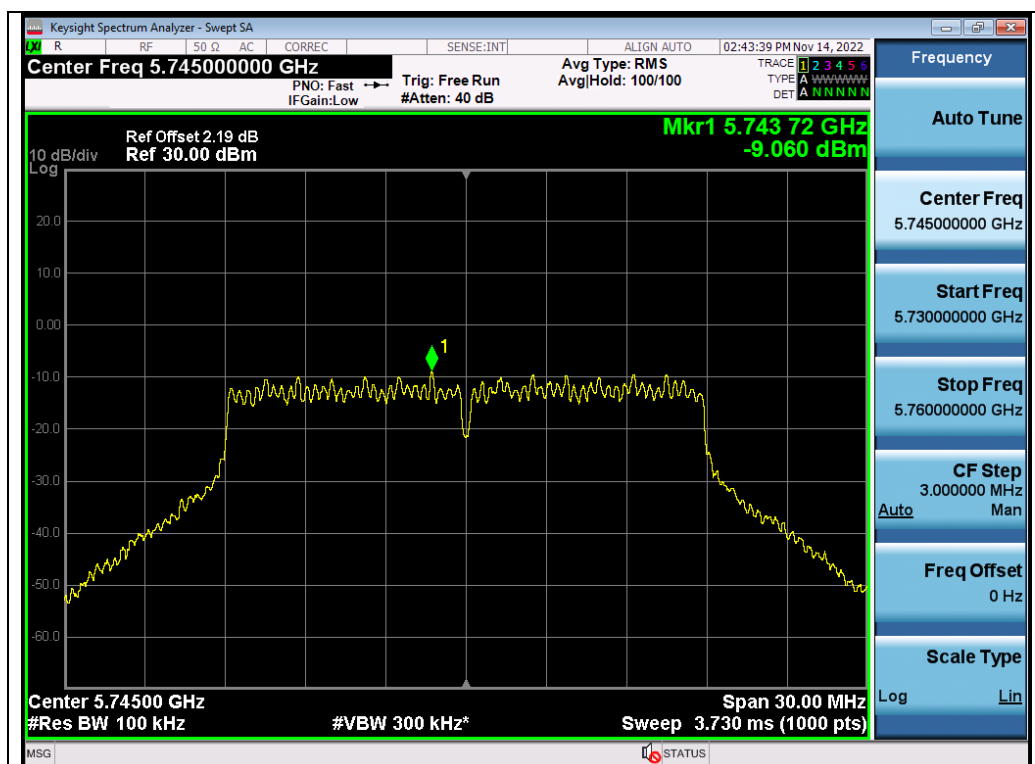
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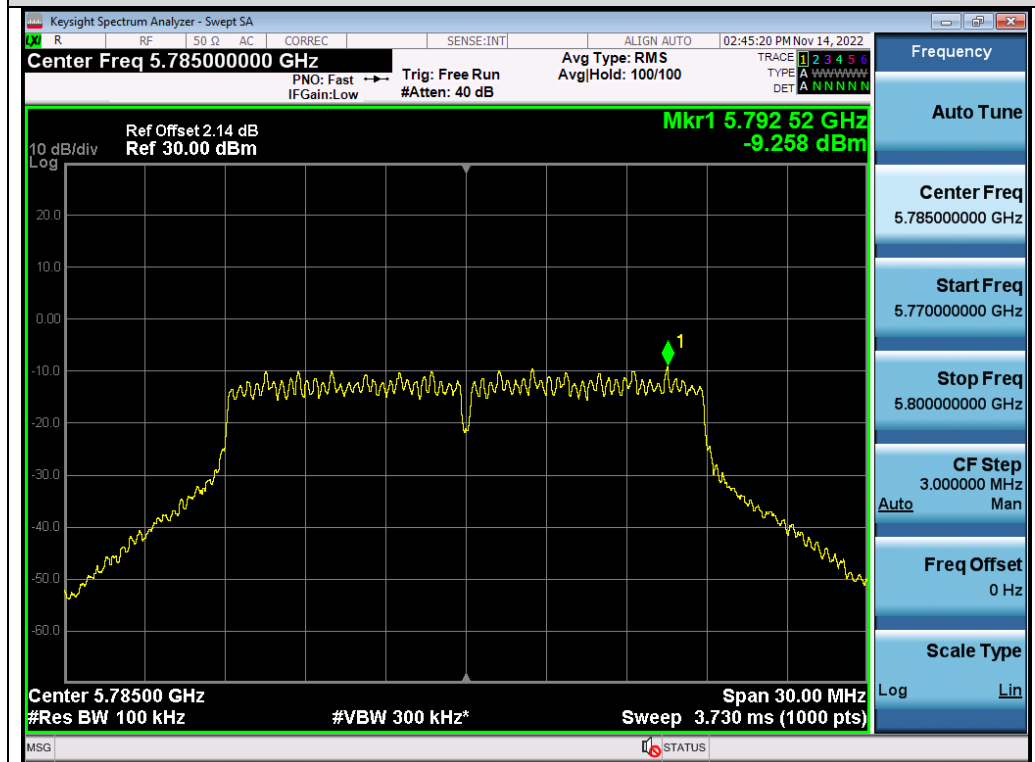


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Test_Graph_802.11ac20_ANT1_5745_MCS0_PSD



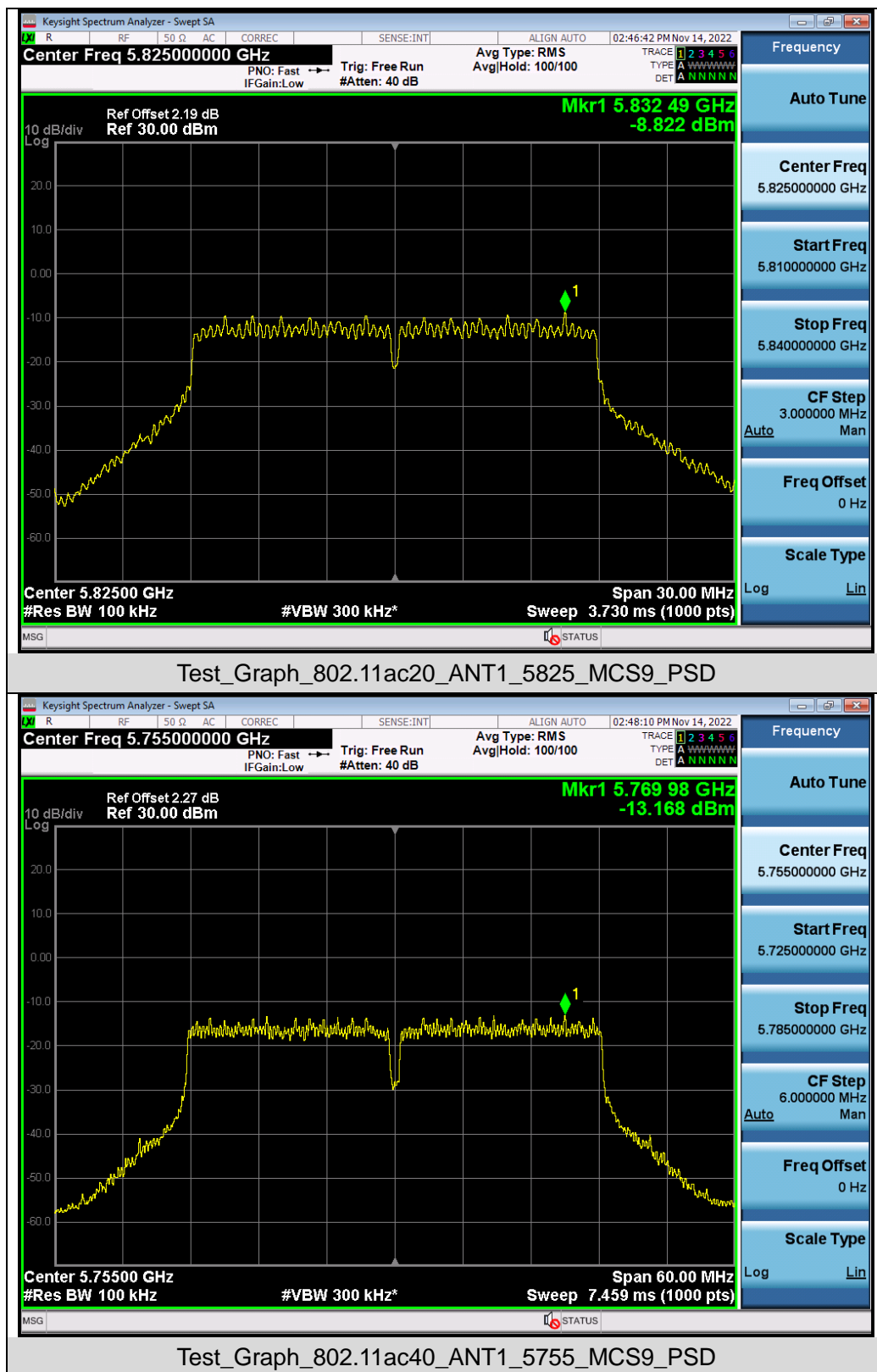
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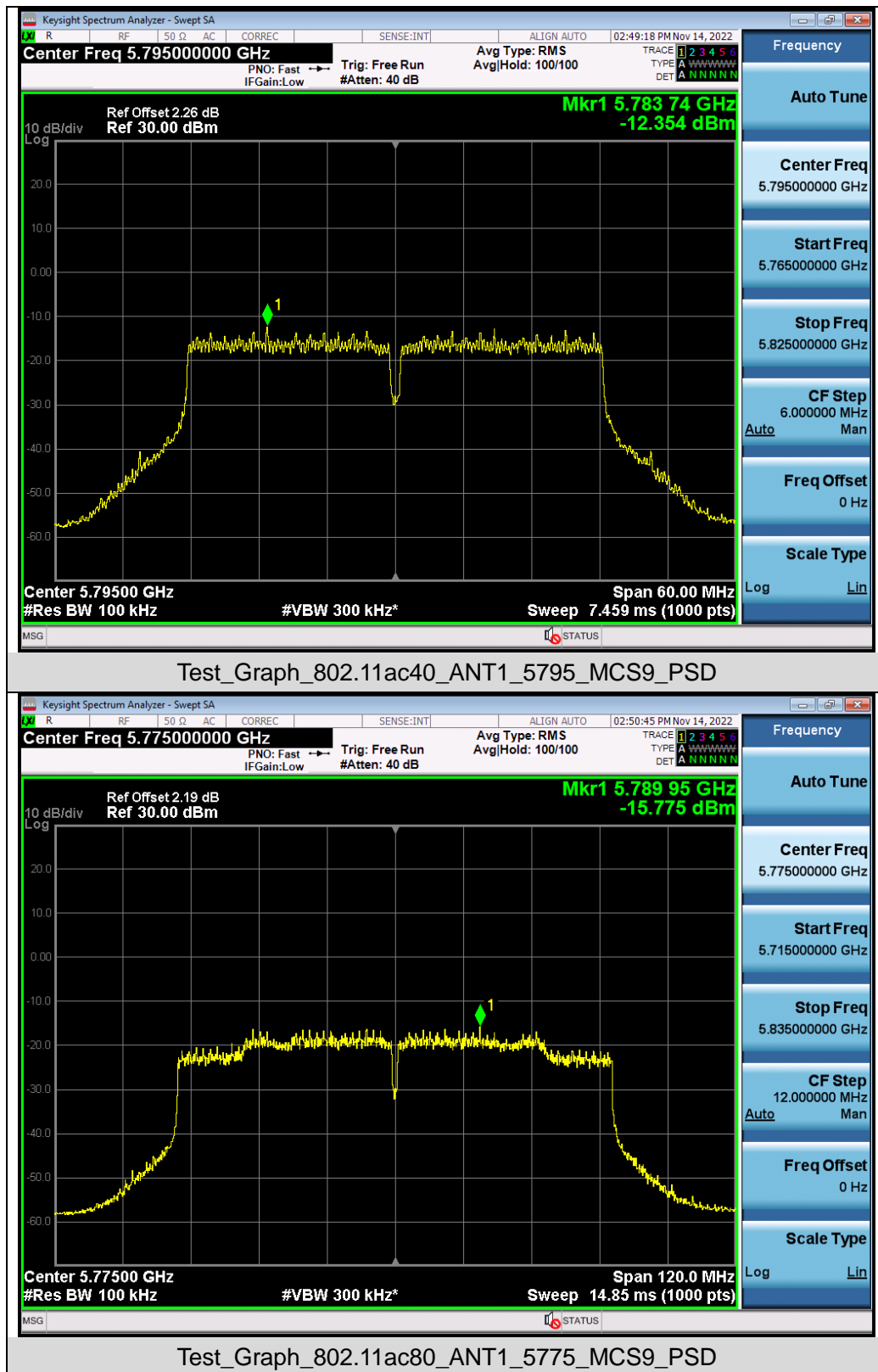
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