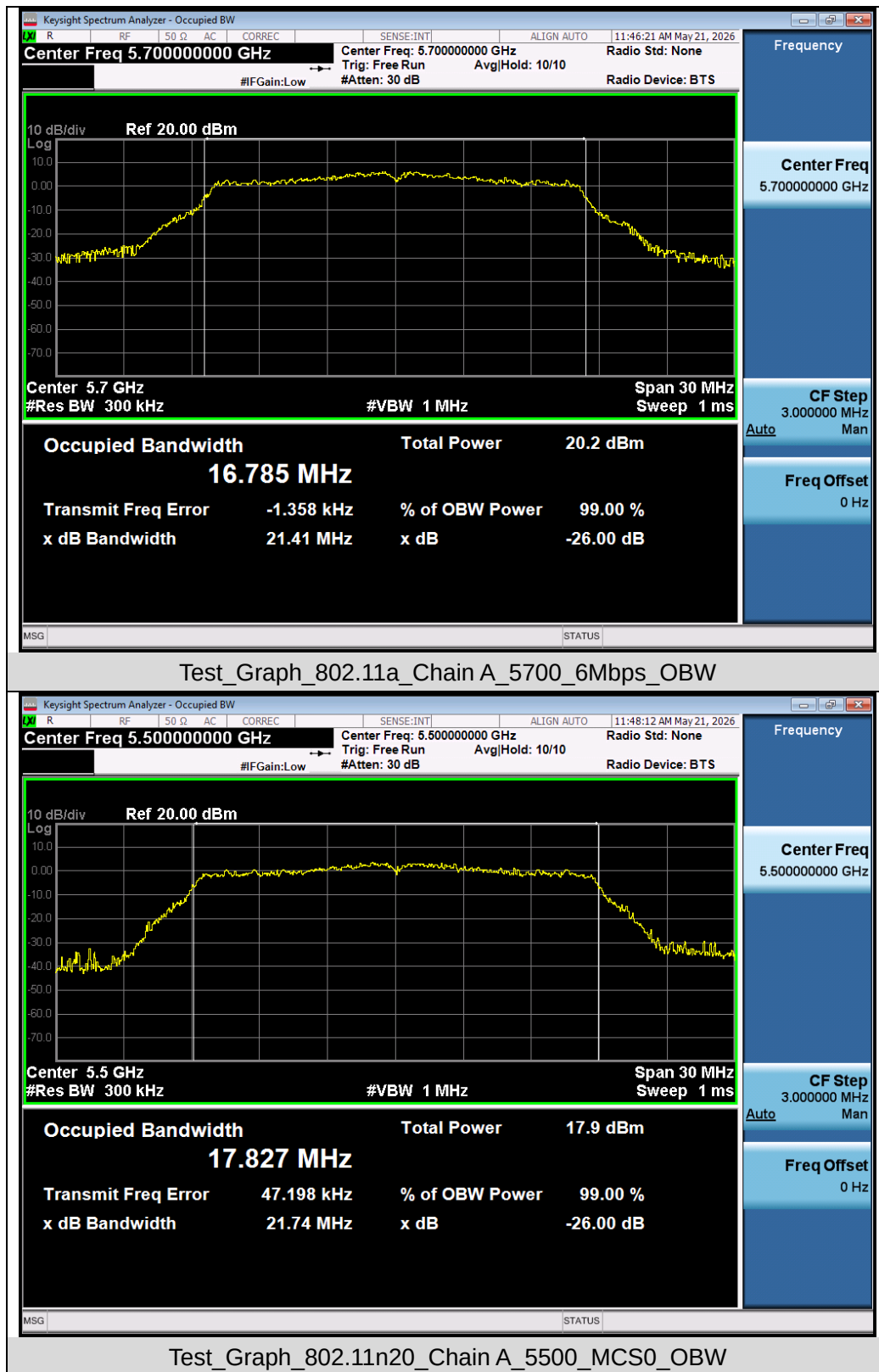
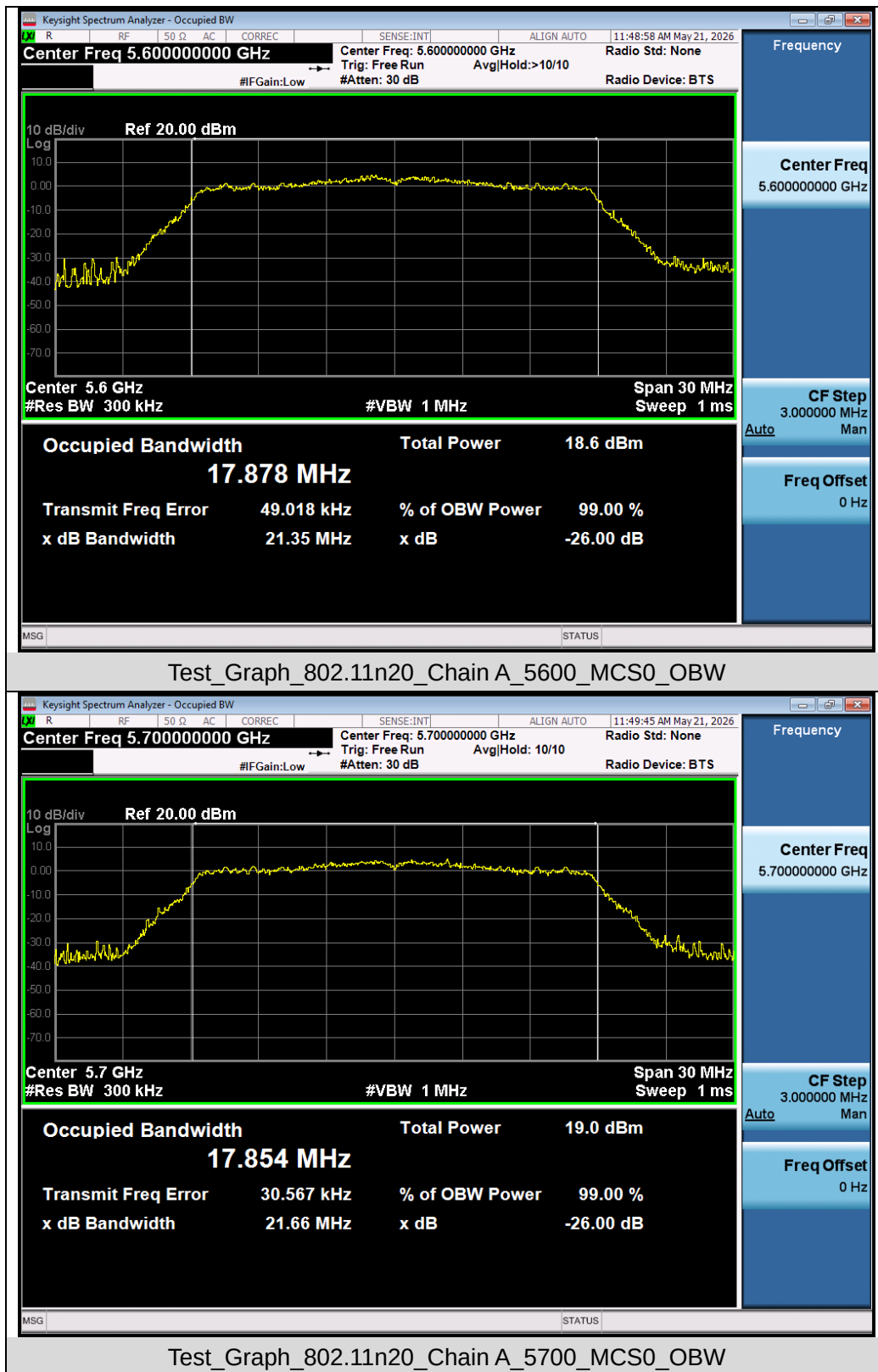
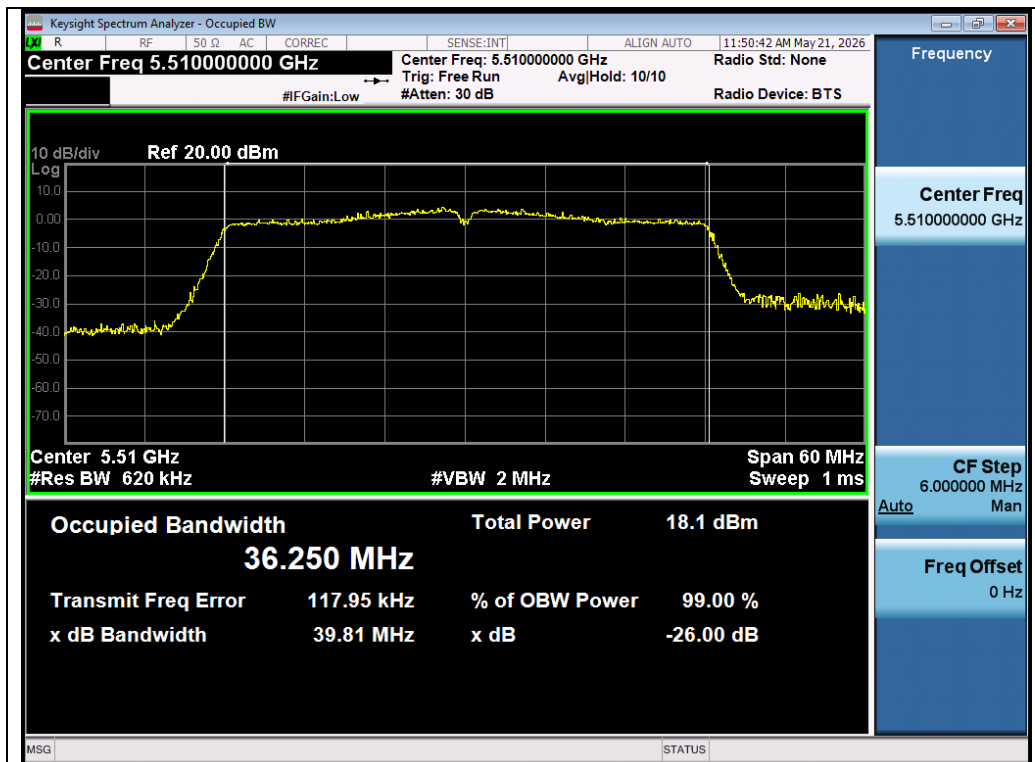




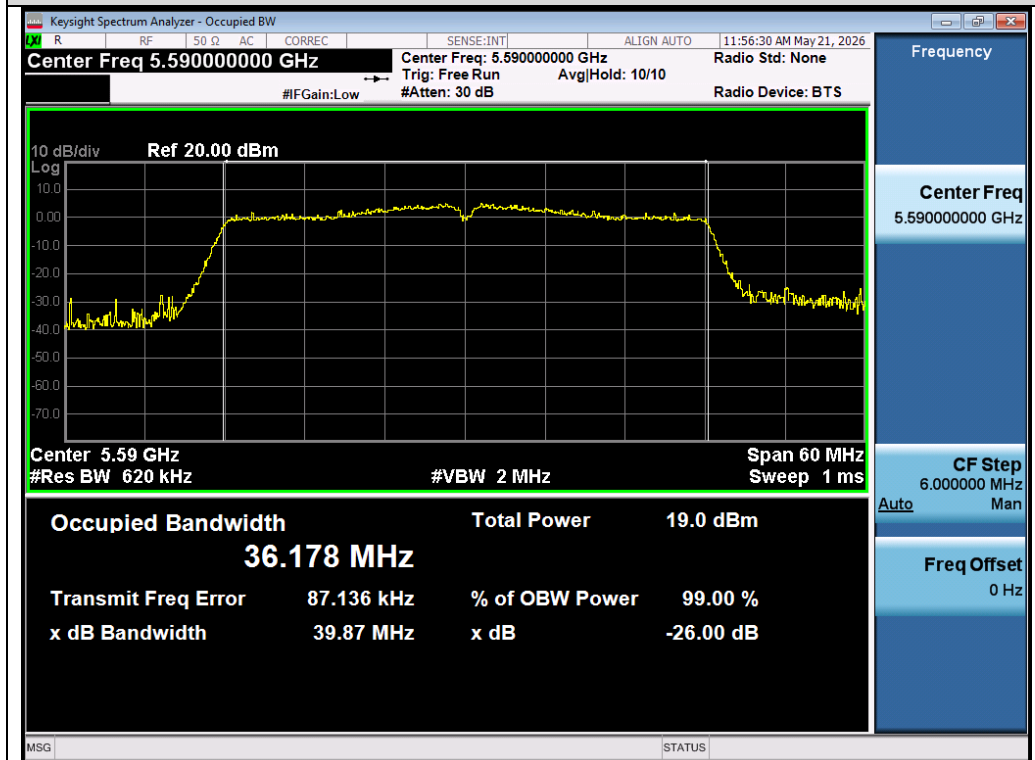
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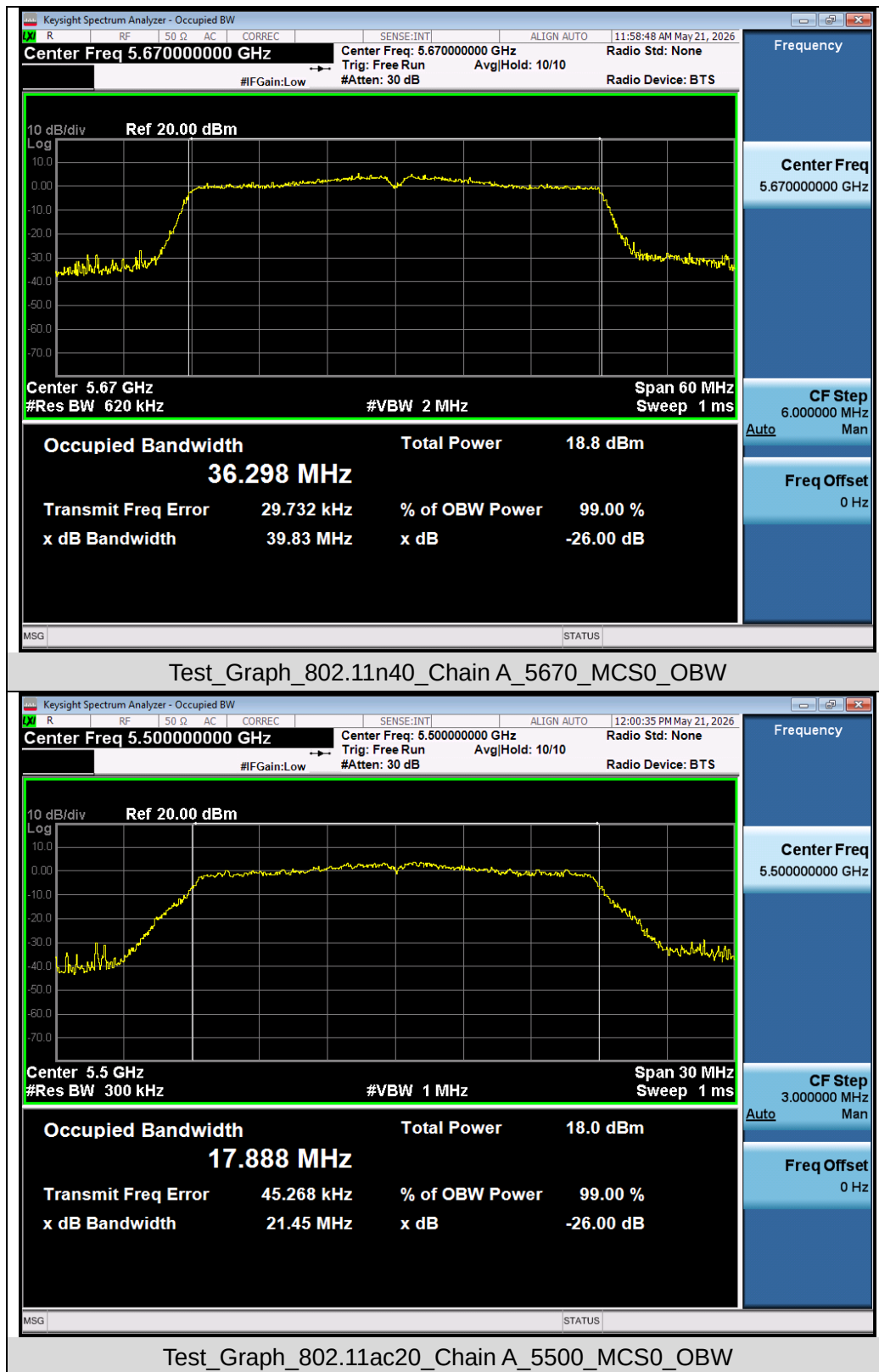


Test_Graph_802.11n40_Chain A_5510_MCS0_OBW

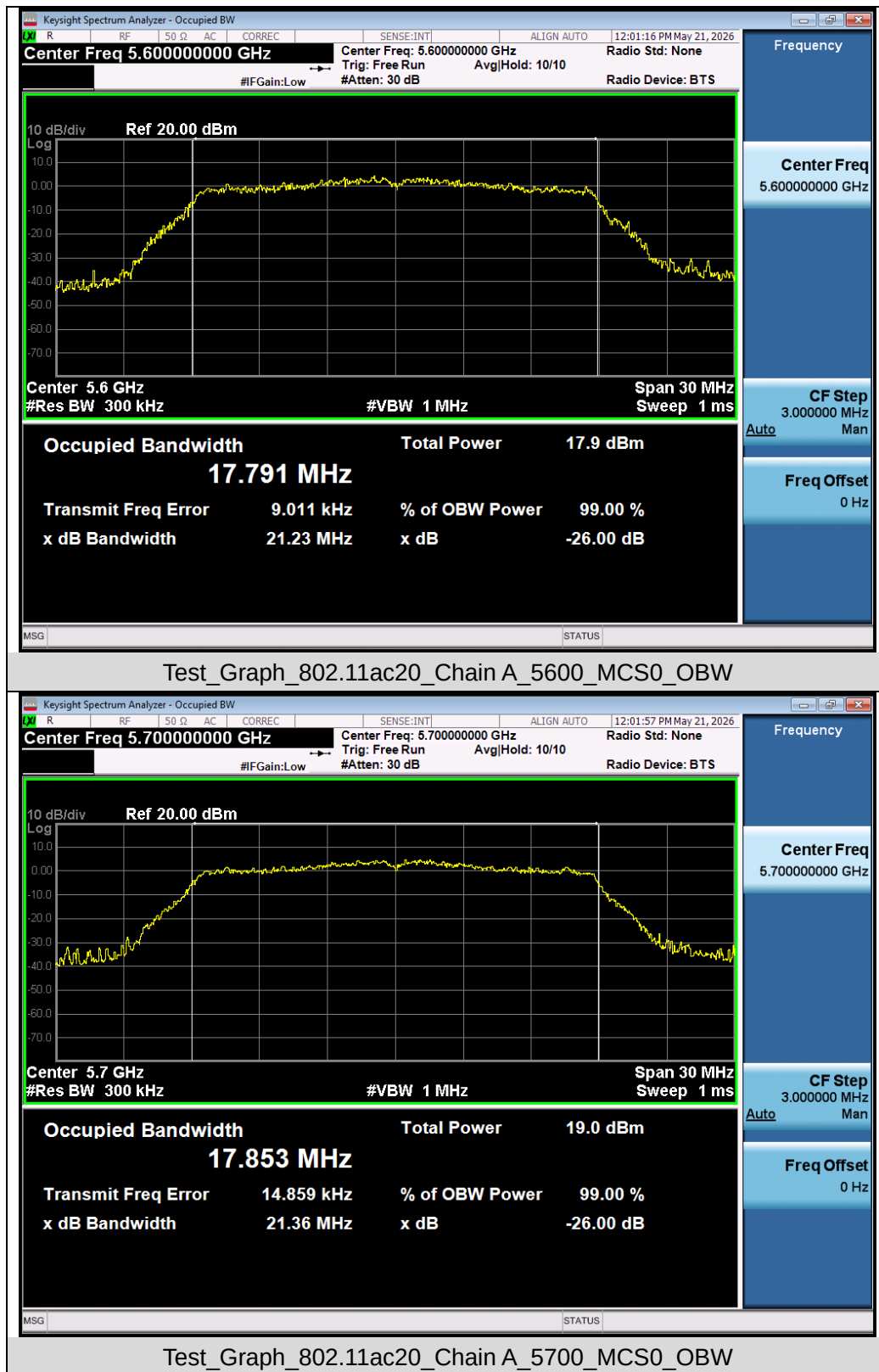


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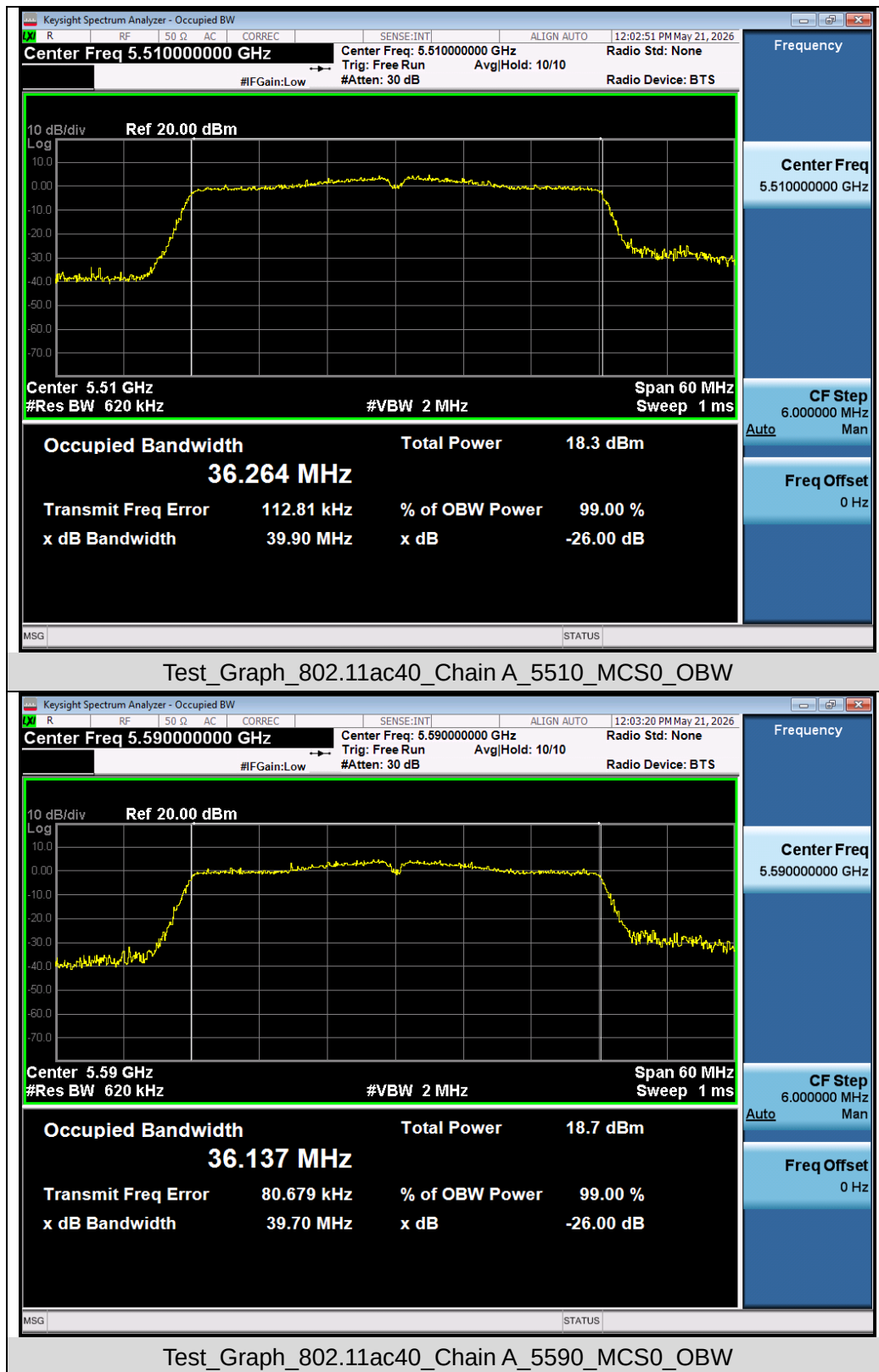
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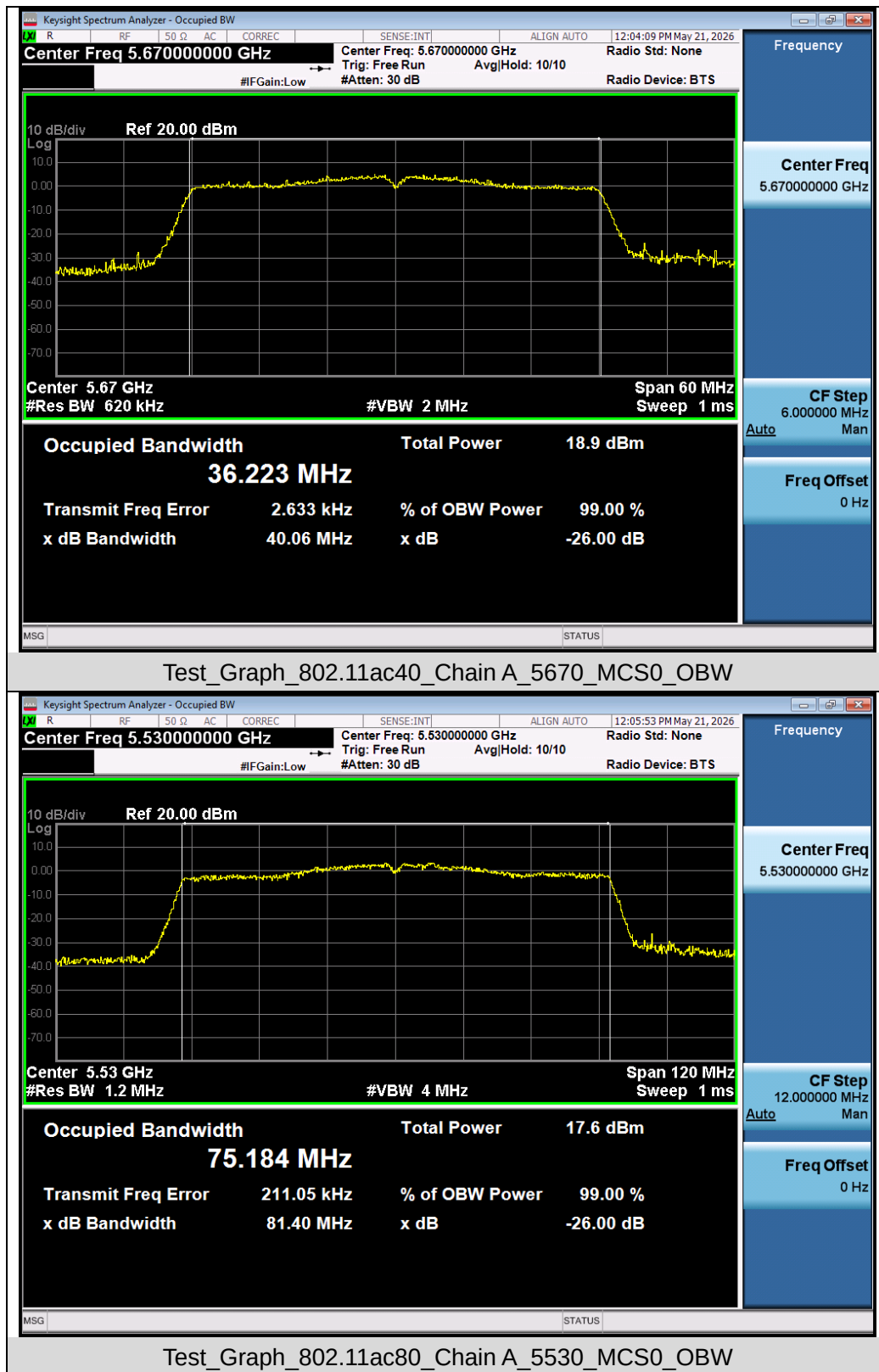
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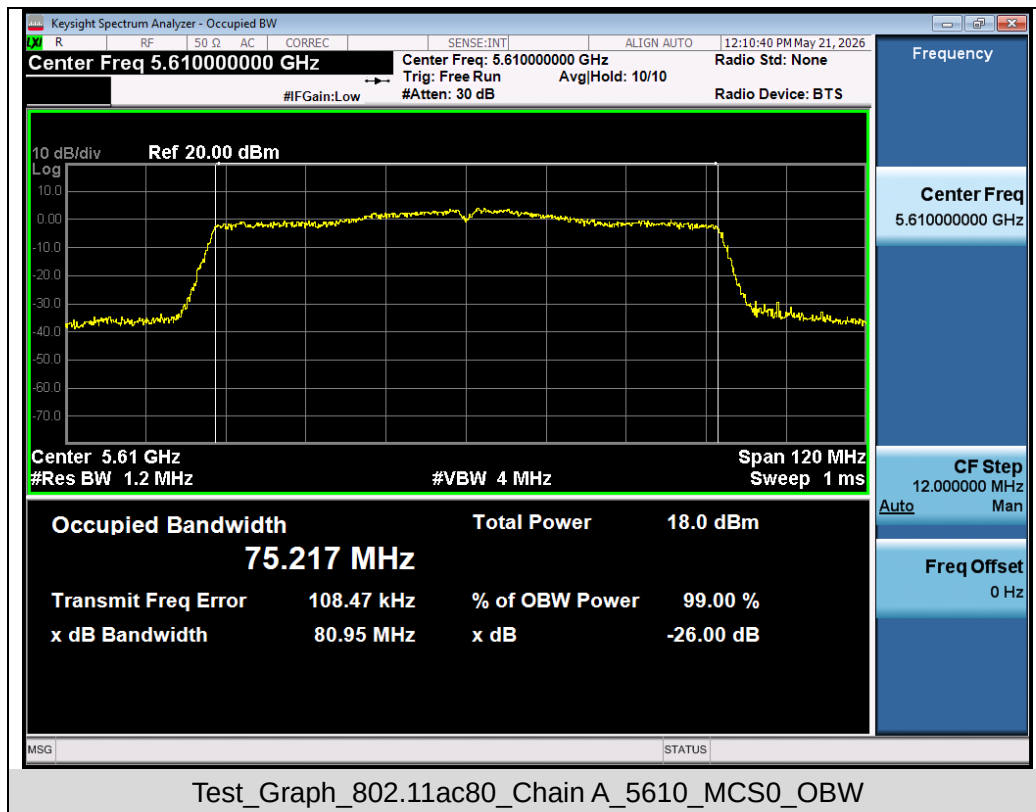
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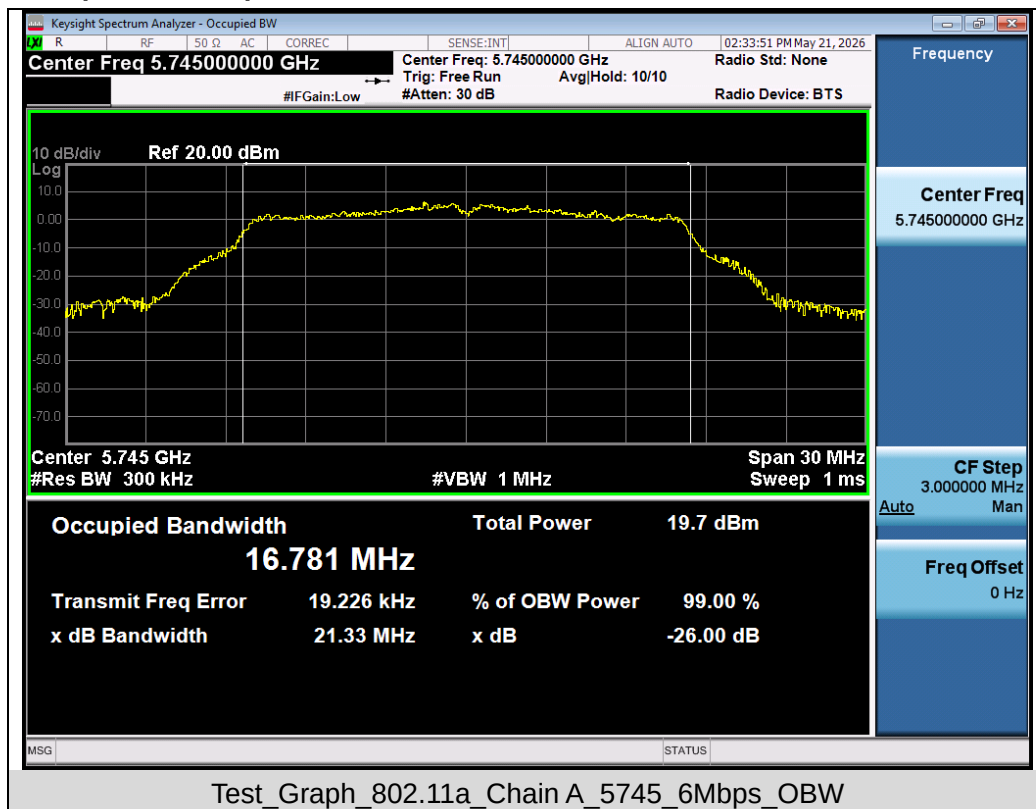
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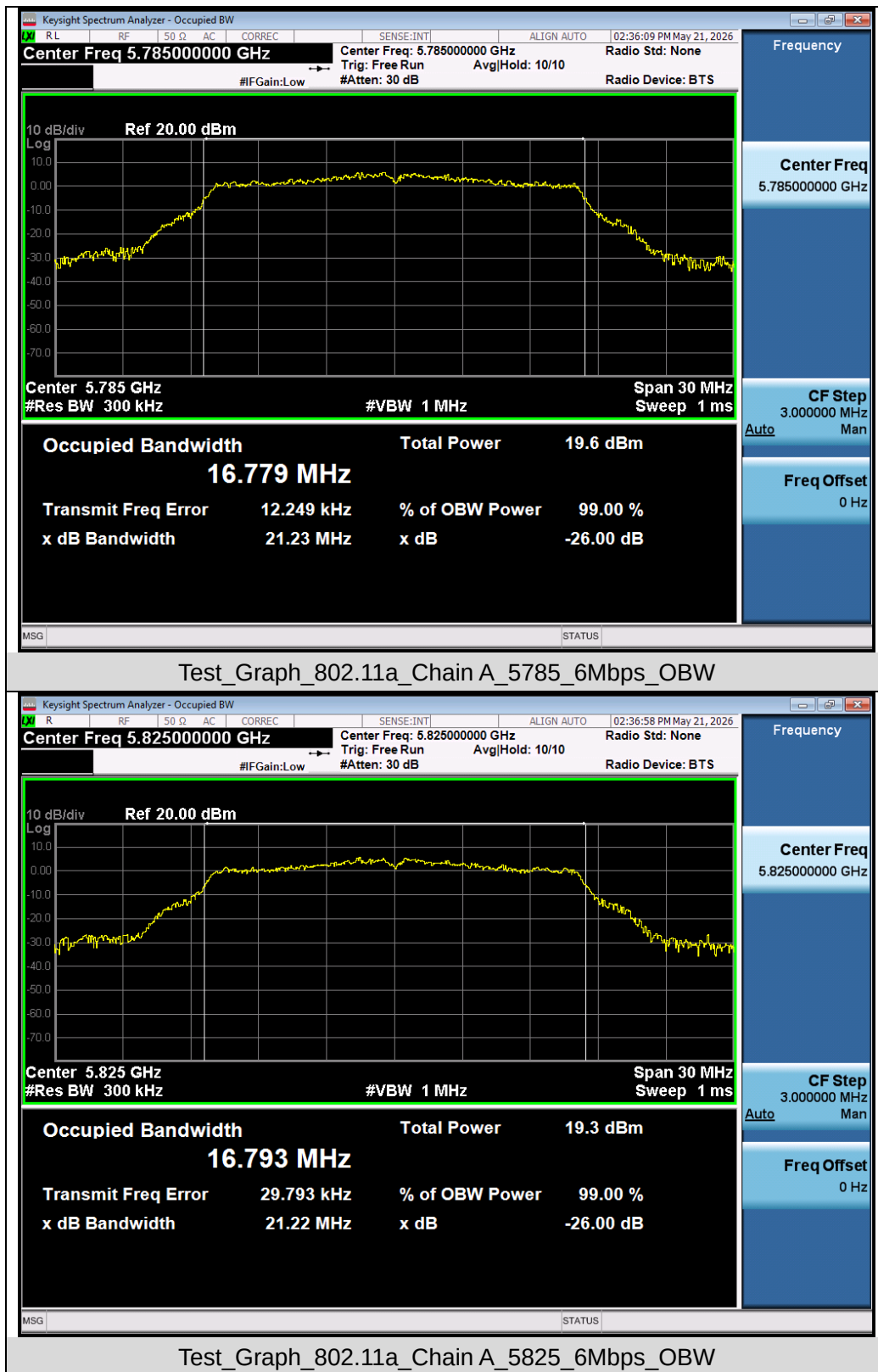
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz

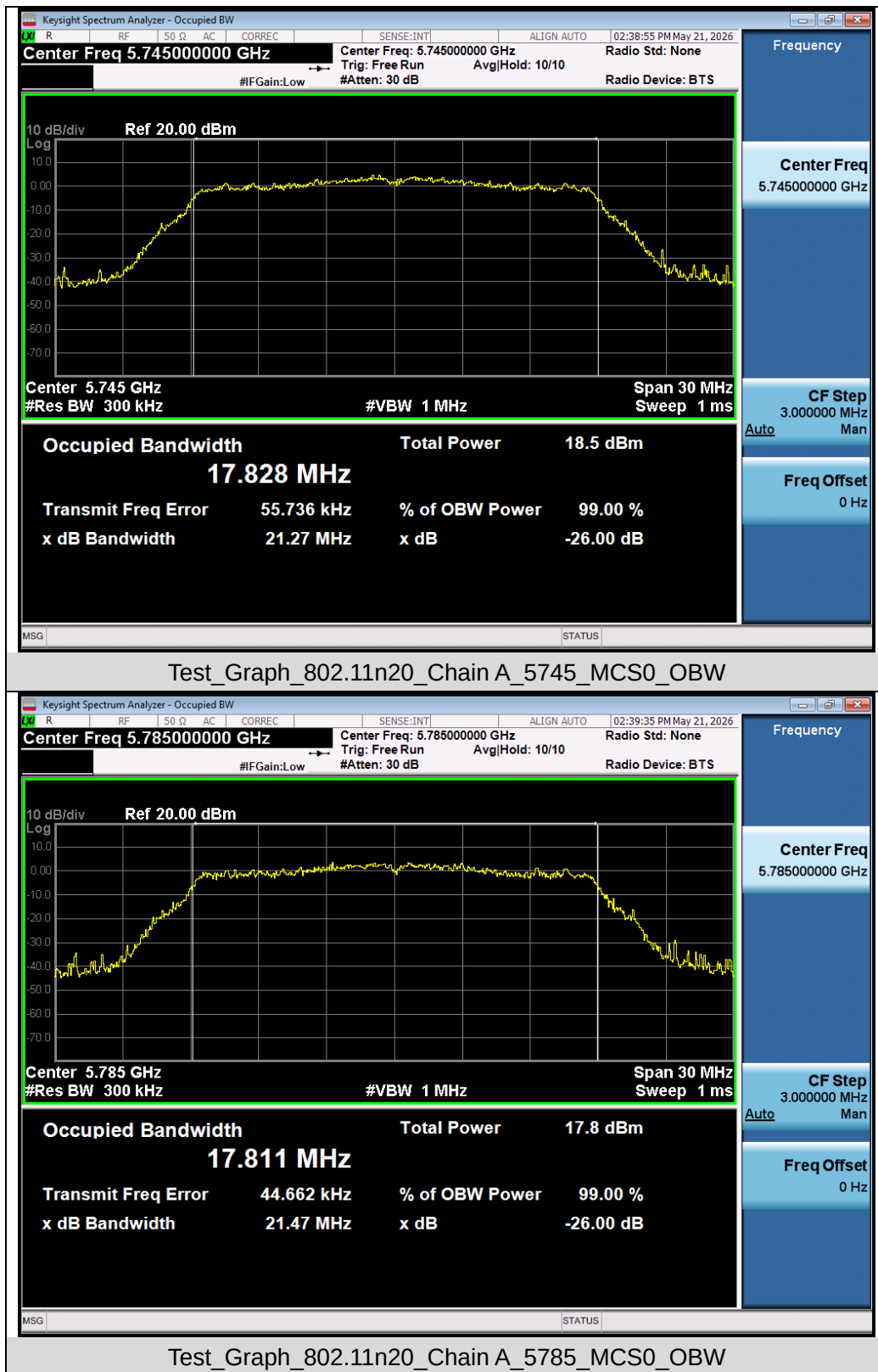


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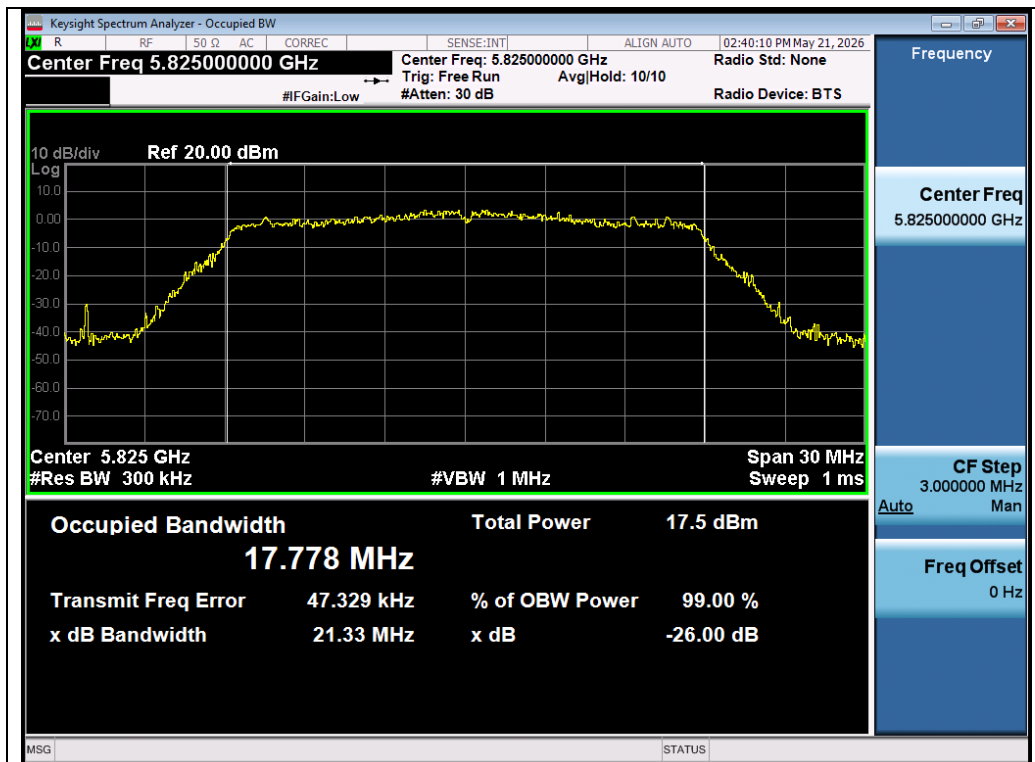


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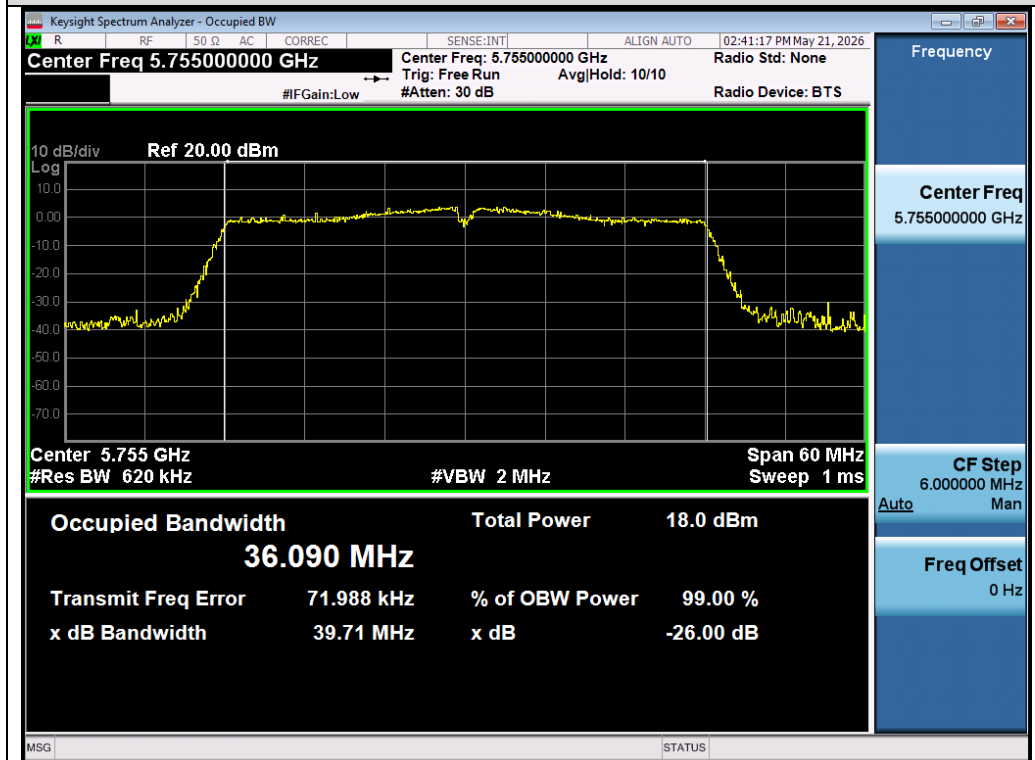
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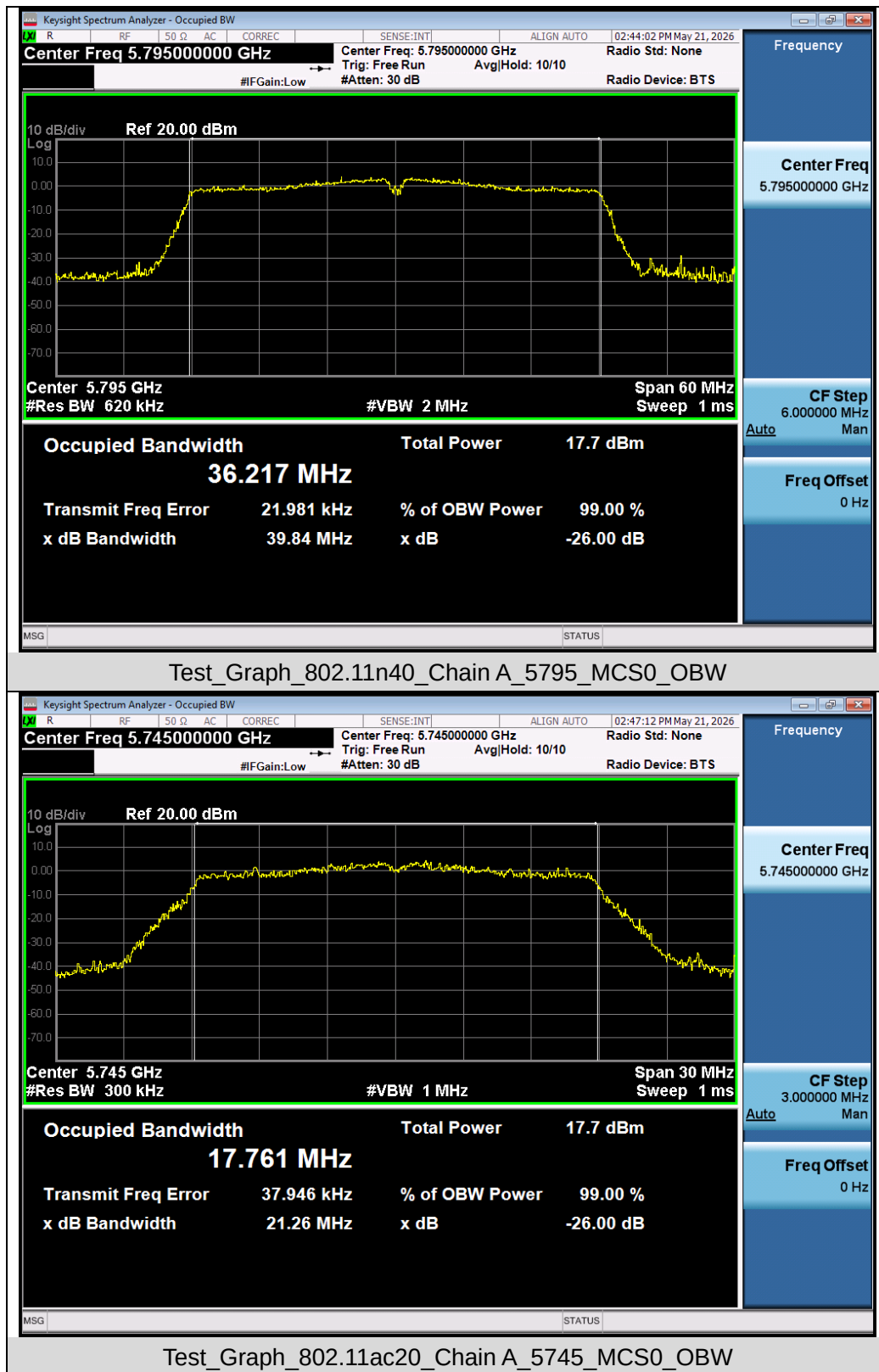


Test_Graph_802.11n20_Chain A_5825_MCS0_OBW

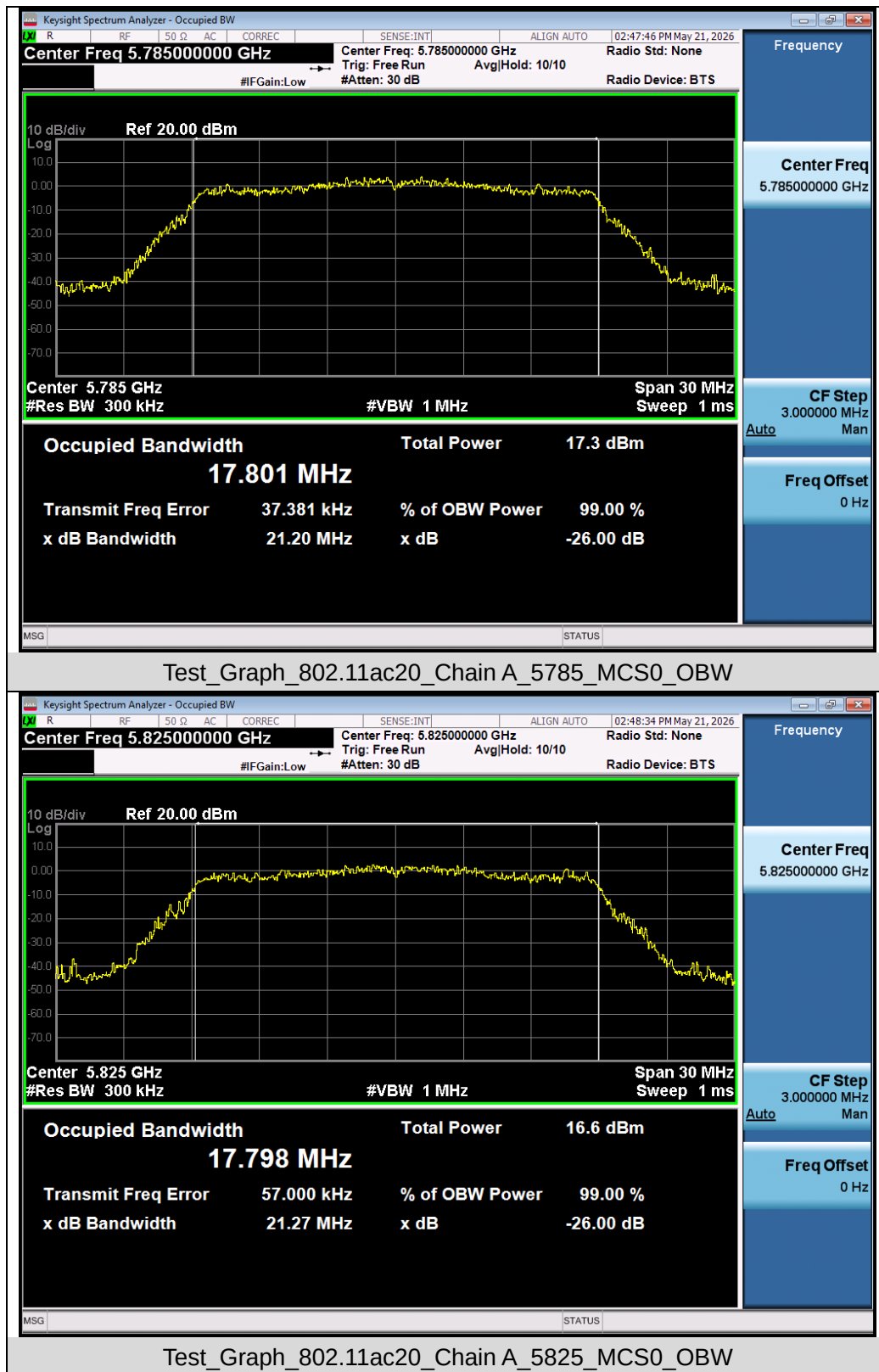


Test_Graph_802.11n40_Chain A_5755_MCS0_OBW

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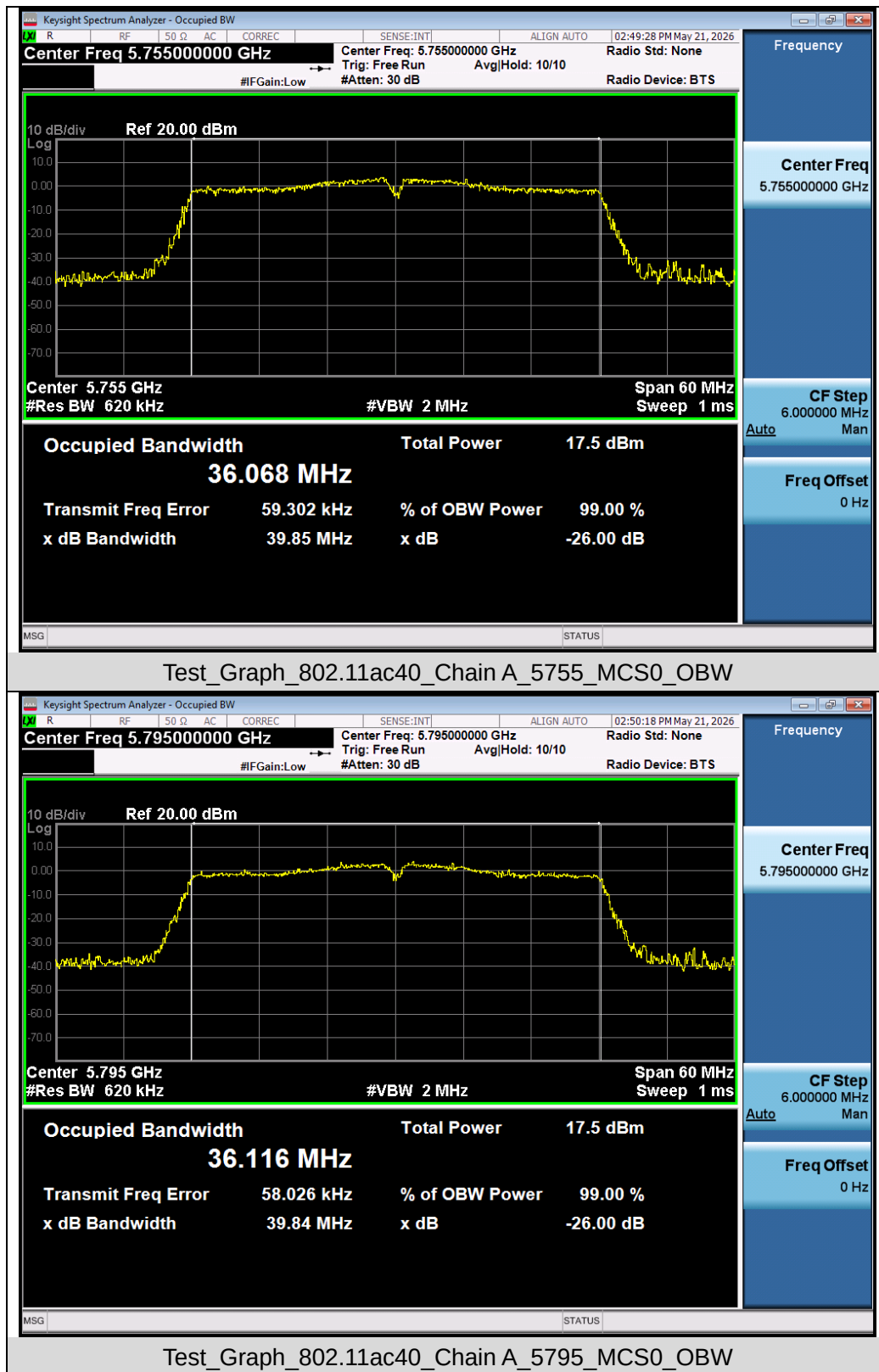


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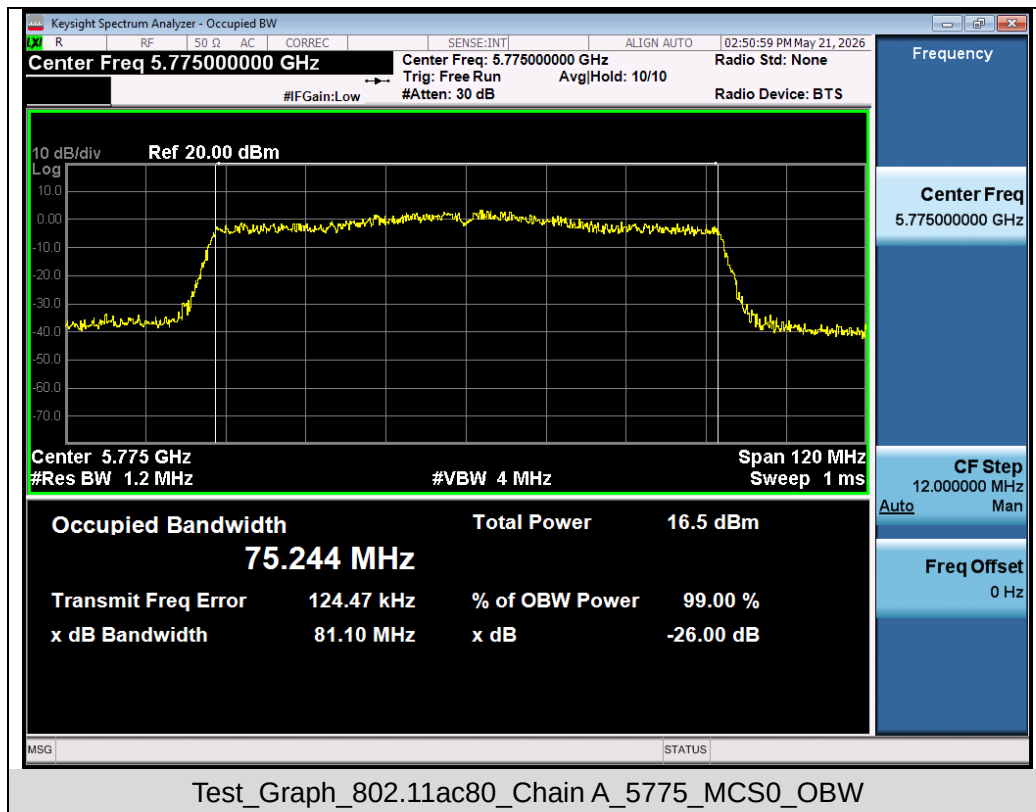


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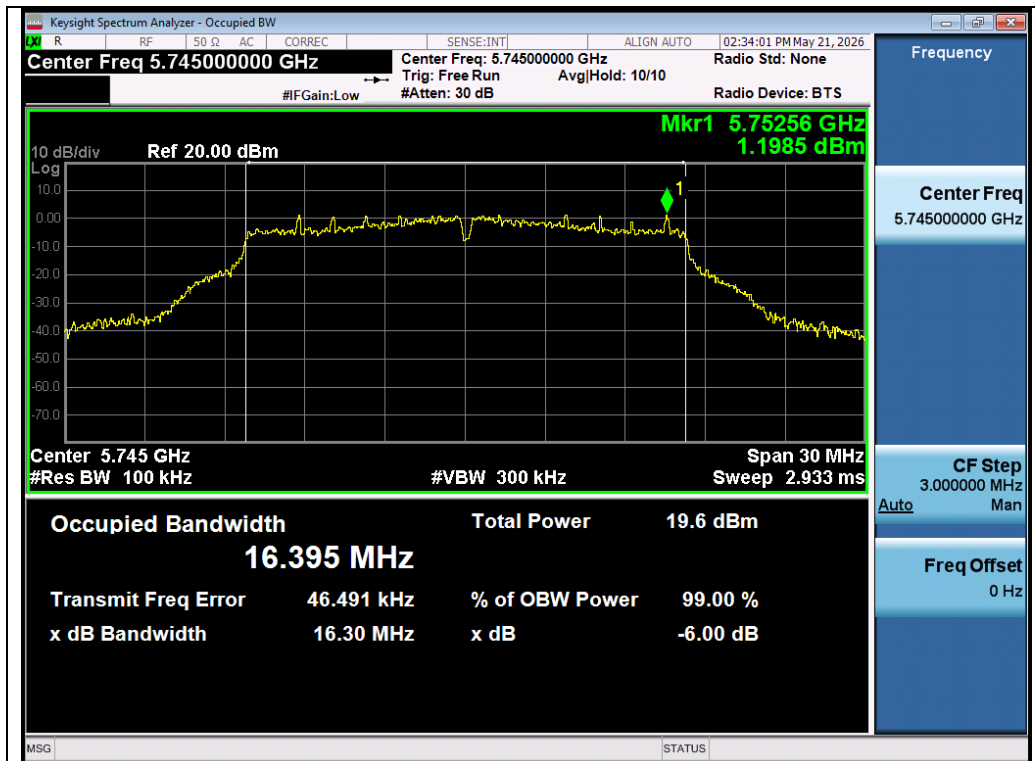
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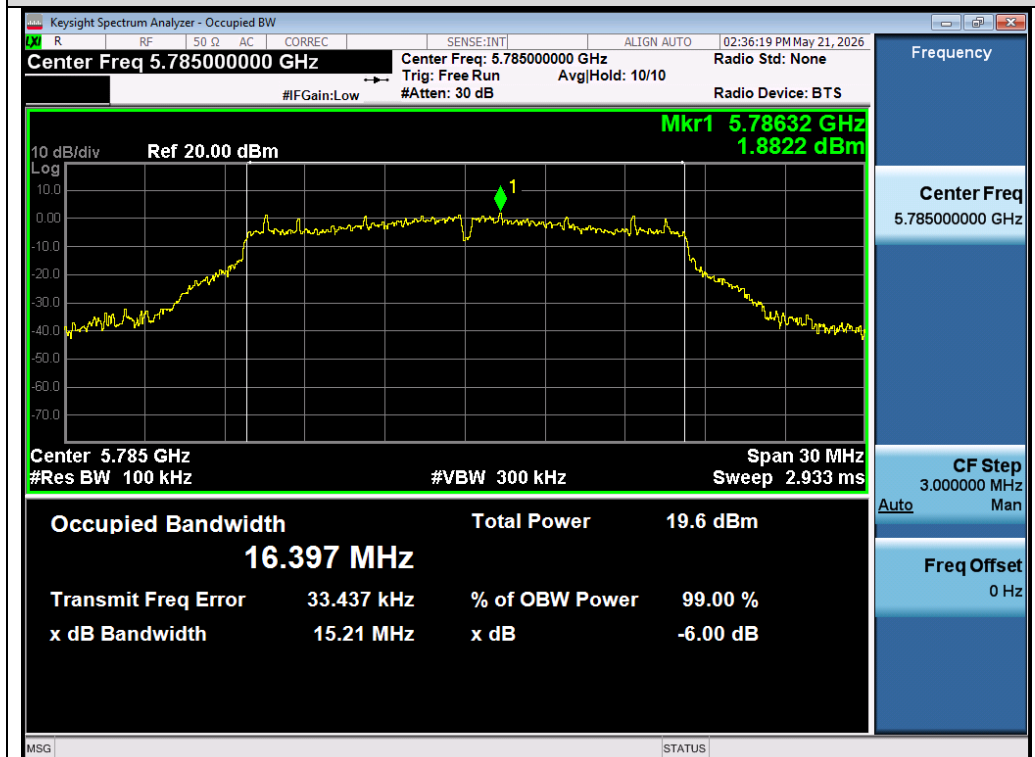
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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

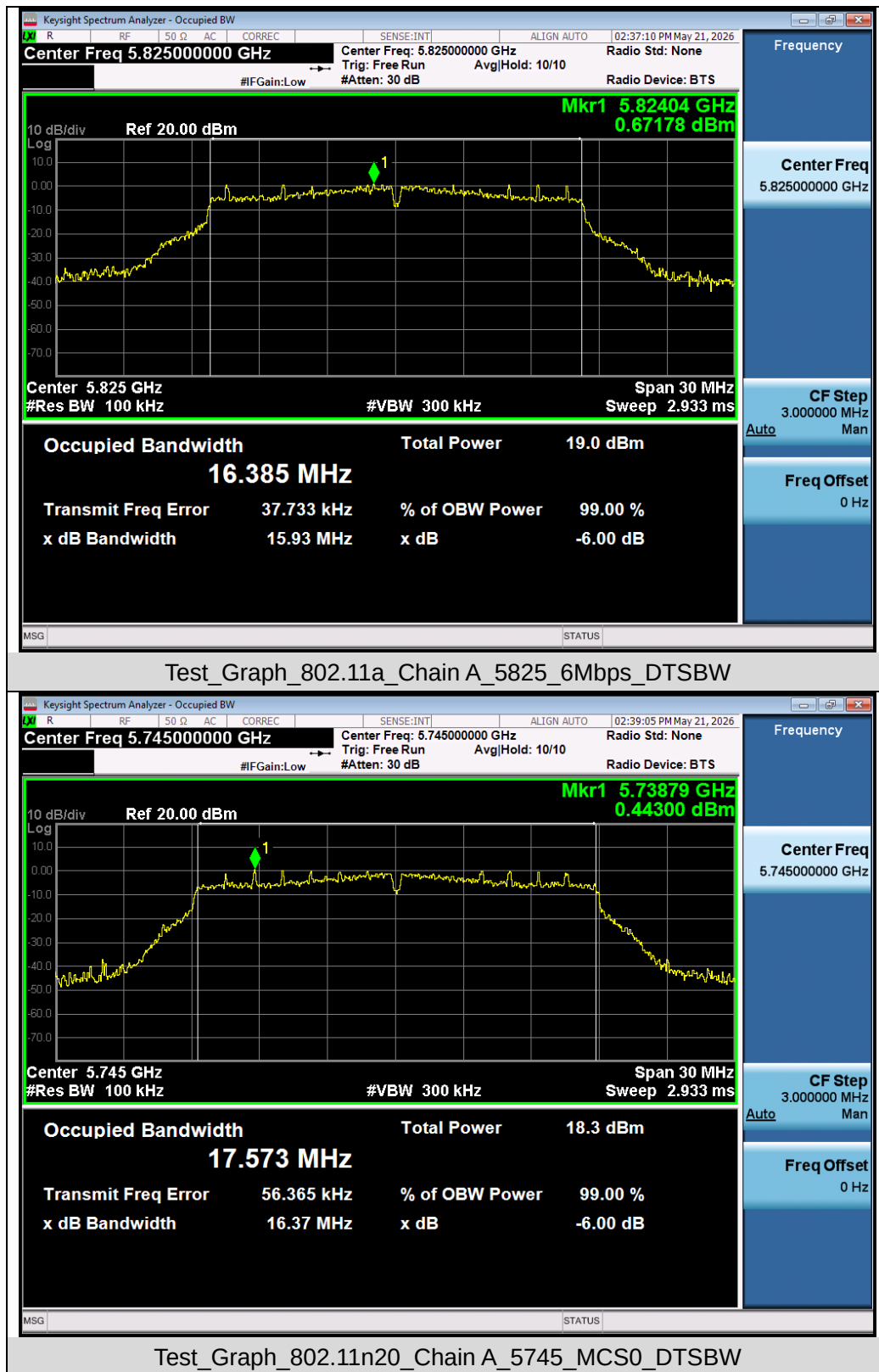


Test_Graph_802.11a_Chain A_5745_6Mbps_DTSBW

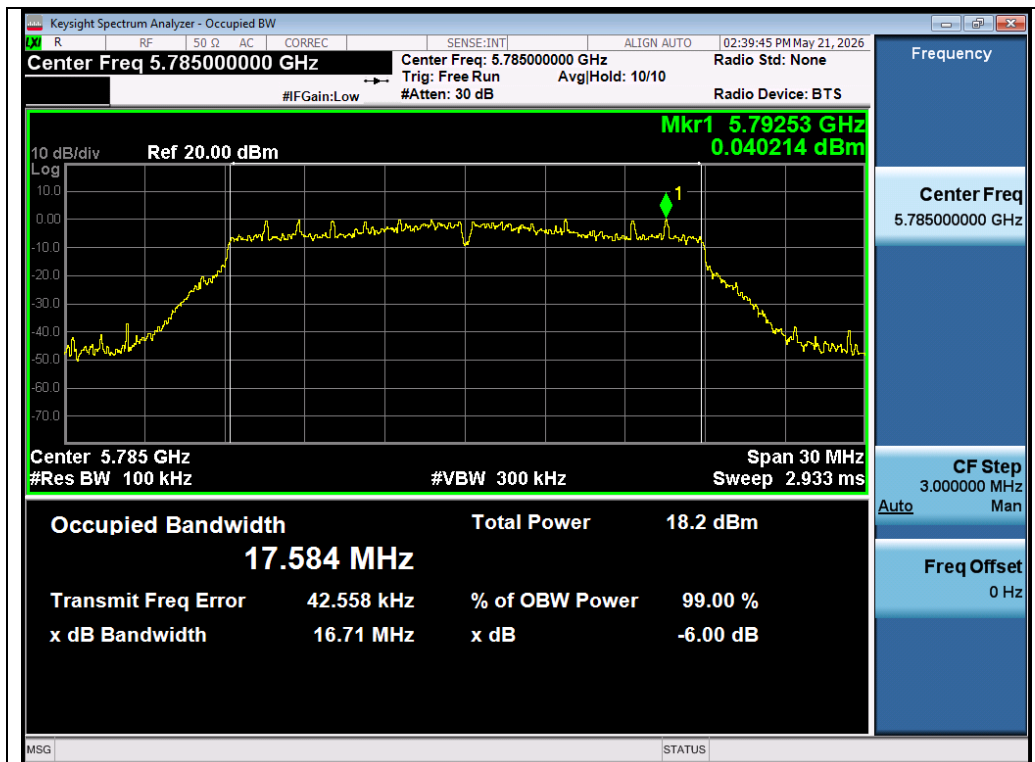


Test_Graph_802.11a_Chain A_5785_6Mbps_DTSBW

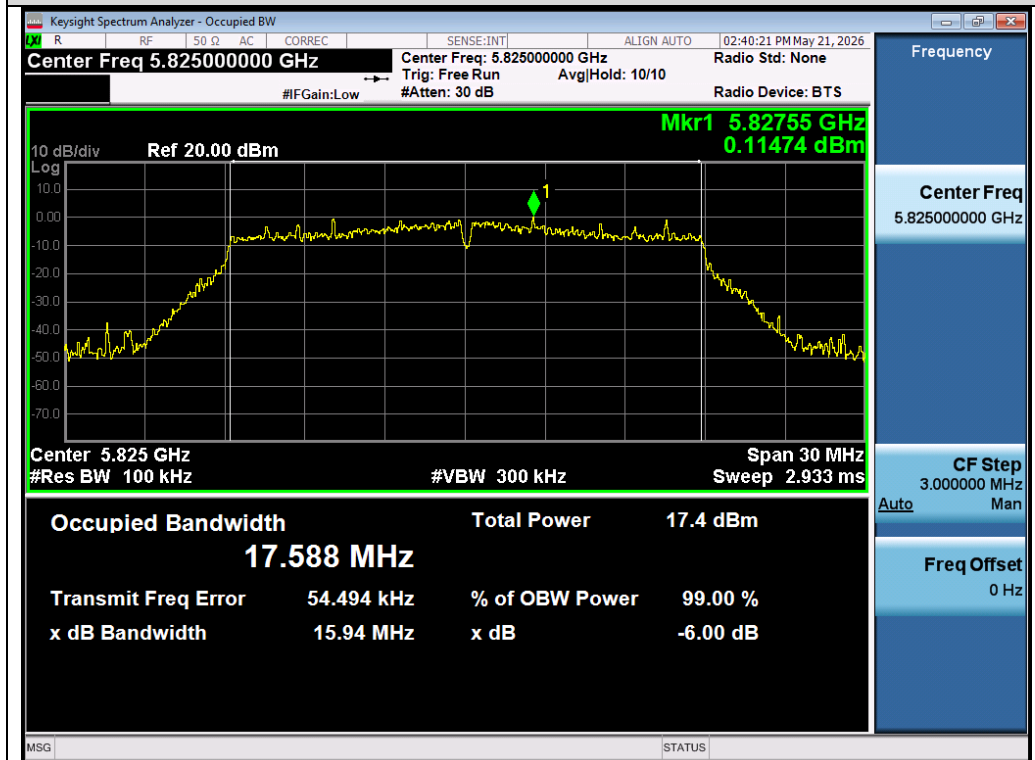
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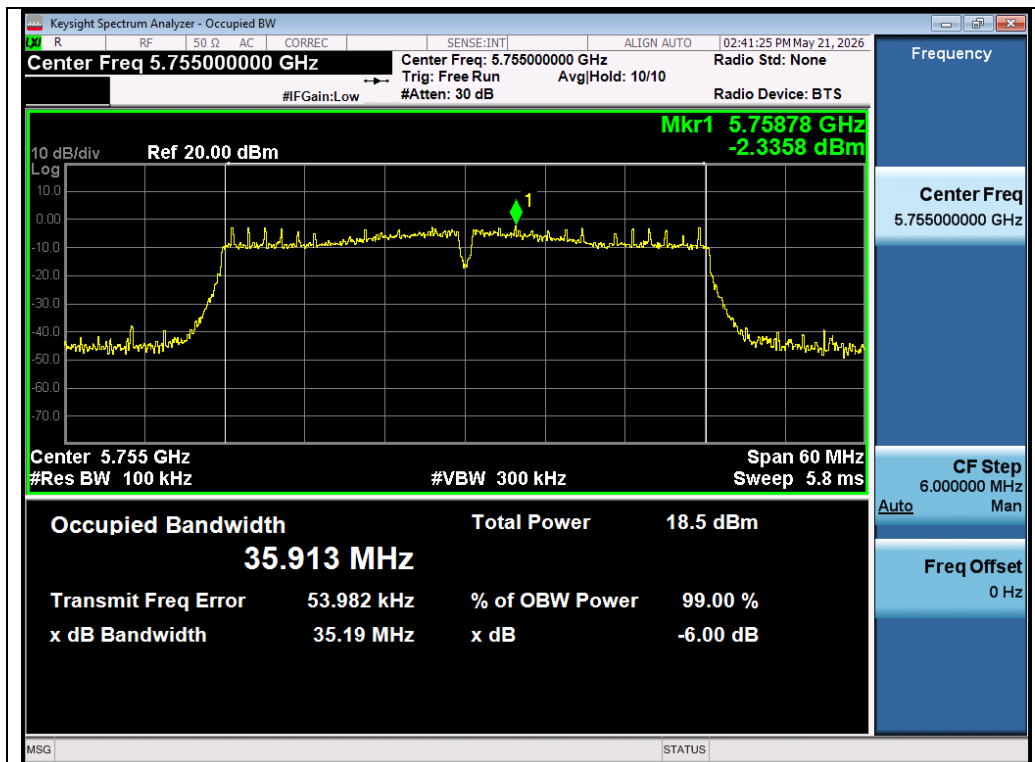


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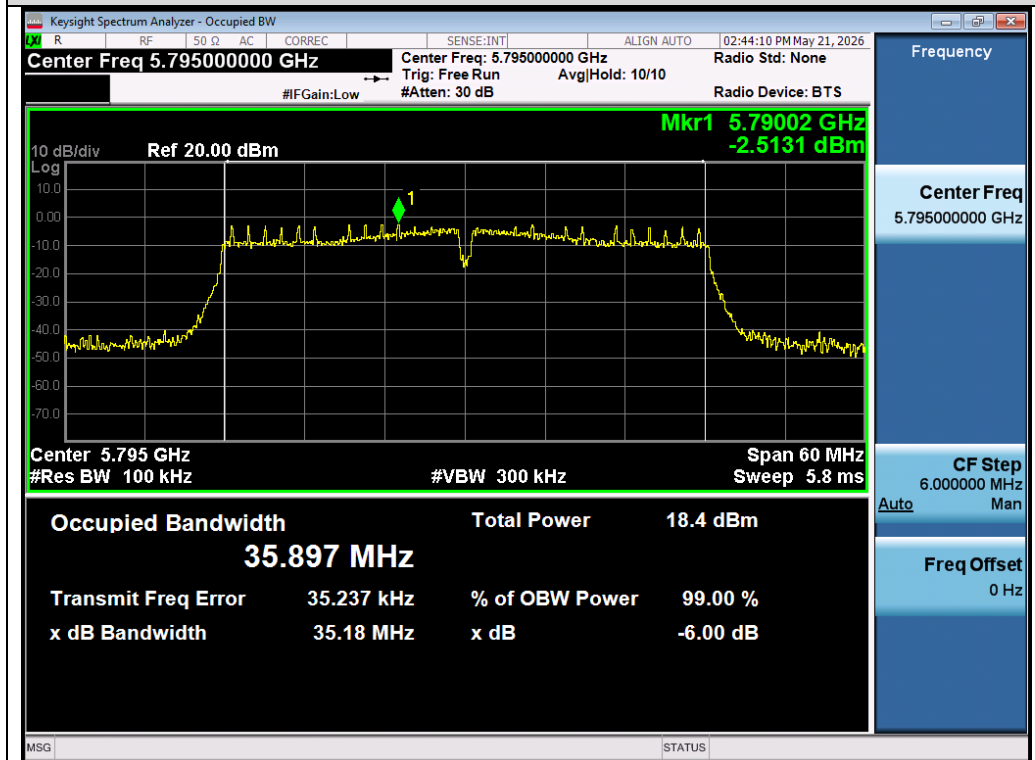


Test_Graph_802.11n20_Chain A_5825_MCS0_DTSBW

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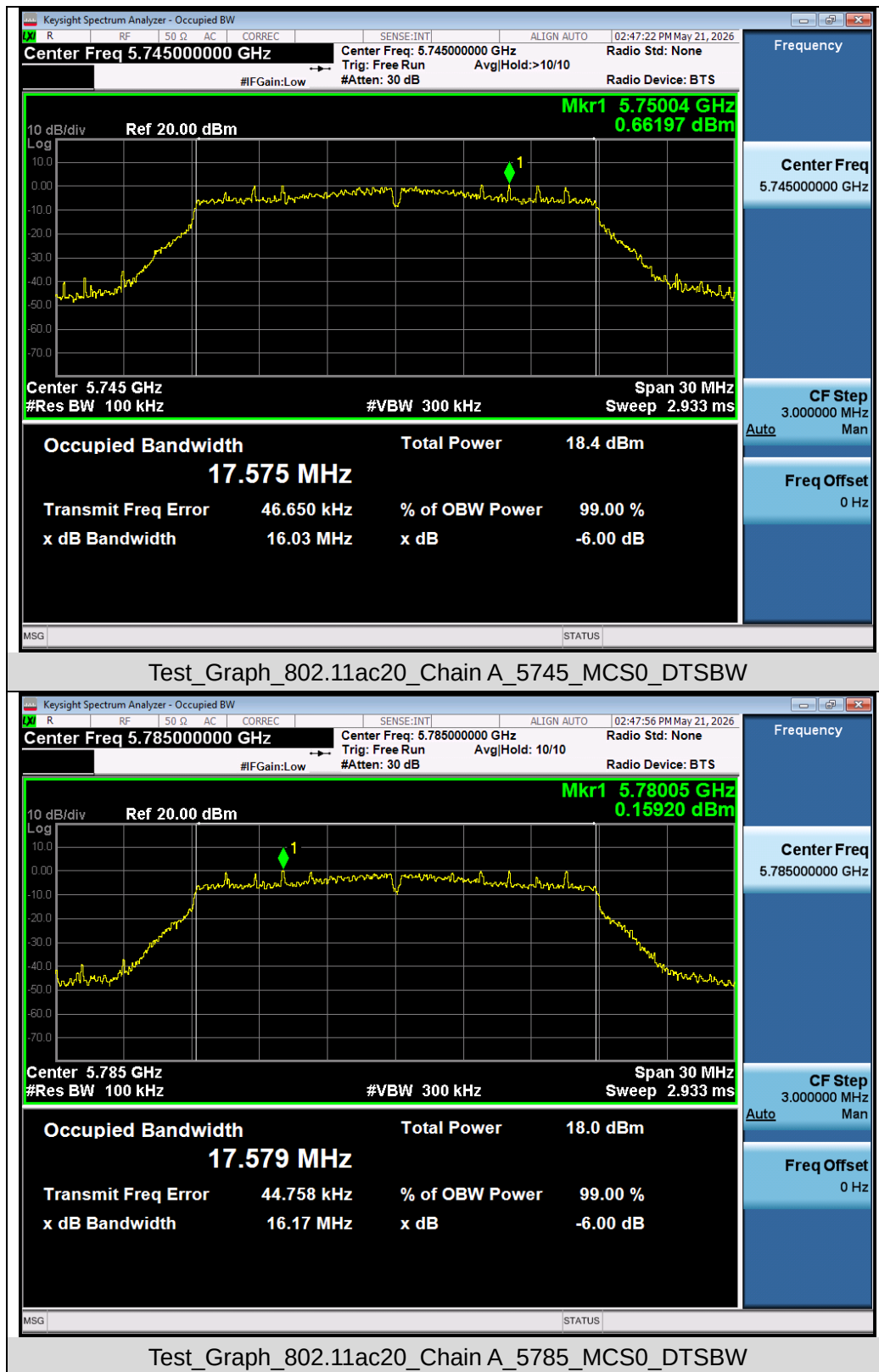


Test_Graph_802.11n40_Chain A_5755_MCS0_DTSBW



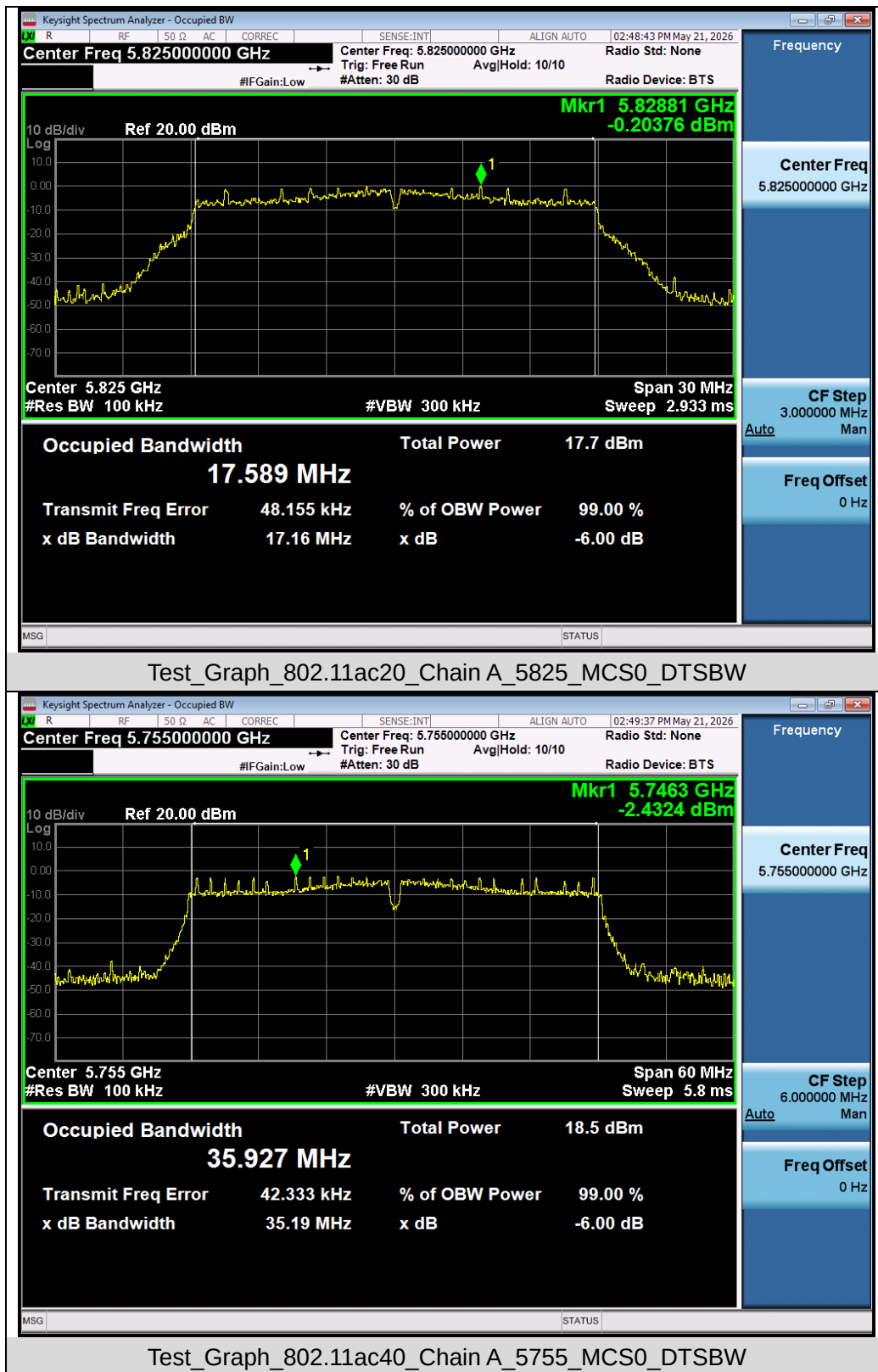
Test_Graph_802.11n40_Chain A_5795_MCS0_DTSBW

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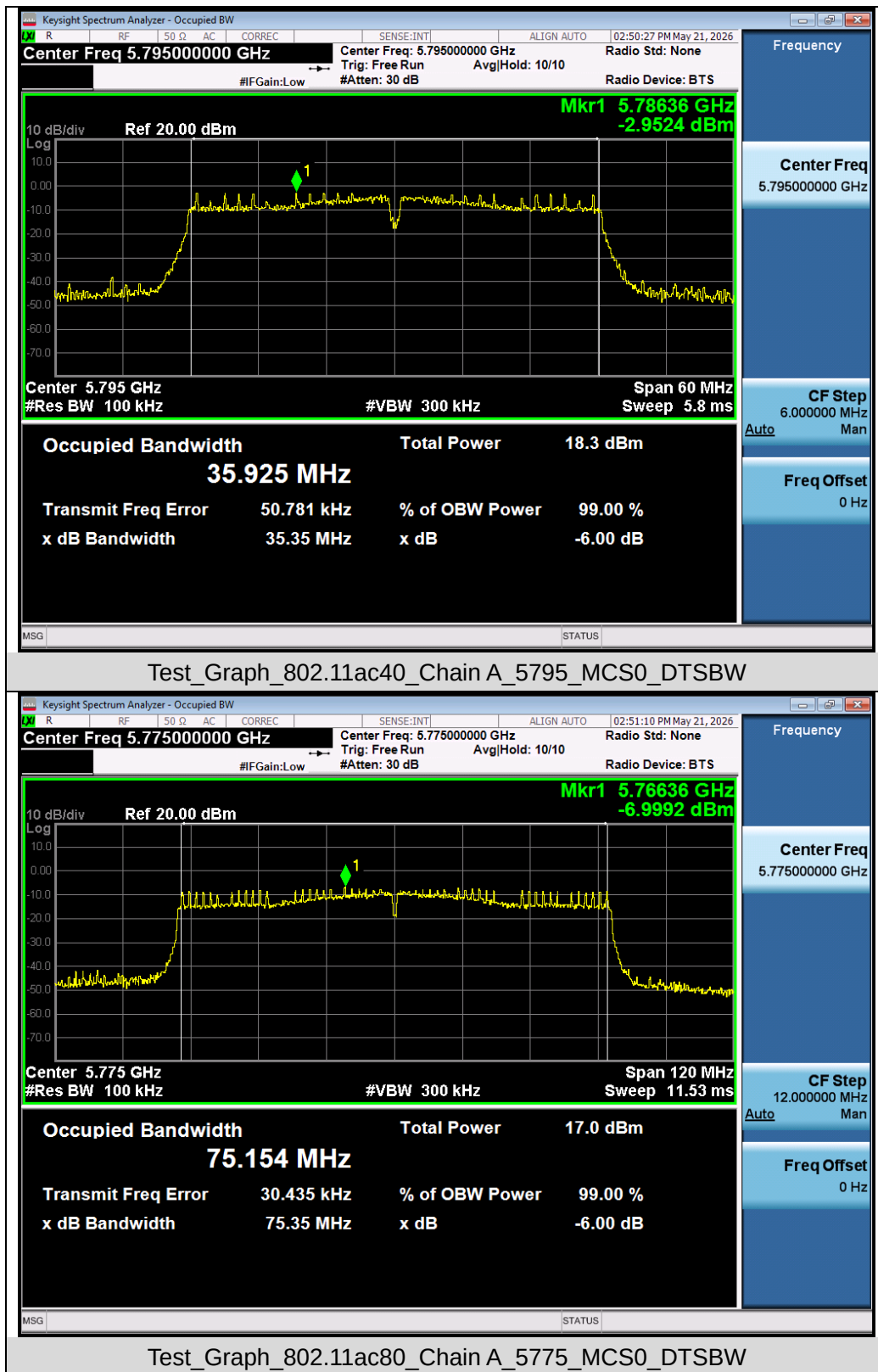


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9. Power Spectral Density Measurement

9.1 Provisions Applicable

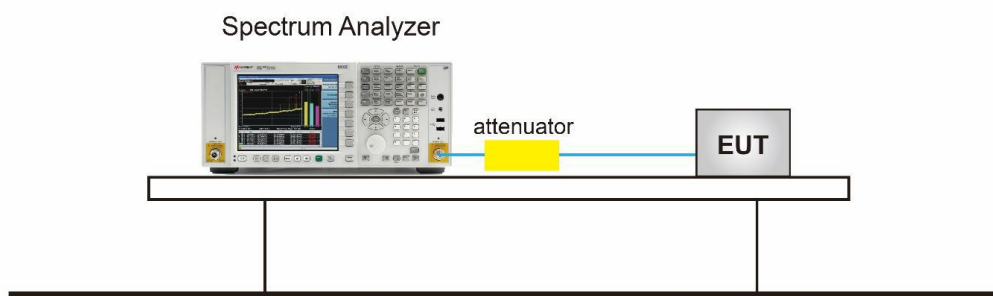
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

9.2 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 $\times$ 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 $10 \times \log(500\text{kHz}/100\text{kHz}) = 6.99$ 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 $[10 \log (1/0.25)] = 6$ dB if the duty cycle is 25%.
12. The final test results have been increased by the duty cycle factor and recorded in the report

9.3 Measurement Setup (Block Diagram of Configuration)



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9.4 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	3.860	11	Pass
	5200	3.531	11	Pass
	5240	3.498	11	Pass
802.11n20	5180	2.024	11	Pass
	5200	1.944	11	Pass
	5240	1.738	11	Pass
802.11n40	5190	-1.290	11	Pass
	5230	-1.269	11	Pass
802.11ac20	5180	2.069	11	Pass
	5200	1.975	11	Pass
	5240	1.697	11	Pass
802.11ac40	5190	-1.110	11	Pass
	5230	-1.298	11	Pass
802.11ac80	5210	-6.158	11	Pass

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	3.760	11	Pass
	5300	3.397	11	Pass
	5320	3.167	11	Pass
802.11n20	5260	1.841	11	Pass
	5300	1.855	11	Pass
	5320	1.566	11	Pass
802.11n40	5270	-1.077	11	Pass
	5310	-1.506	11	Pass
802.11ac20	5260	2.256	11	Pass
	5300	1.969	11	Pass
	5320	1.649	11	Pass
802.11ac40	5270	-1.095	11	Pass
	5310	-1.402	11	Pass
802.11ac80	5290	-5.658	11	Pass

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Test Data of Conducted Output Power Density for band 5.470-5.725 GH				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	3.396	11	Pass
	5600	3.949	11	Pass
	5700	4.088	11	Pass
802.11n20	5500	1.505	11	Pass
	5600	2.189	11	Pass
	5700	2.508	11	Pass
802.11n40	5510	-1.258	11	Pass
	5590	-0.582	11	Pass
	5670	-0.598	11	Pass
802.11ac20	5500	1.644	11	Pass
	5600	2.514	11	Pass
	5700	2.641	11	Pass
802.11ac40	5510	-0.978	11	Pass
	5590	-0.722	11	Pass
	5670	-0.595	11	Pass
802.11ac80	5530	-6.207	11	Pass
	5610	-5.463	11	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/510kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	1.094	1.008	30	Pass
	5785	0.911	0.825	30	Pass
	5825	0.567	0.481	30	Pass
802.11n20	5745	-0.595	-0.681	30	Pass
	5785	-0.912	-0.998	30	Pass
	5825	-1.099	-1.185	30	Pass
802.11n40	5755	-3.509	-3.595	30	Pass
	5795	-3.819	-3.905	30	Pass
802.11ac20	5745	-0.474	-0.560	30	Pass
	5785	-0.755	-0.841	30	Pass
	5825	-1.228	-1.314	30	Pass
802.11ac40	5755	-3.704	-3.790	30	Pass

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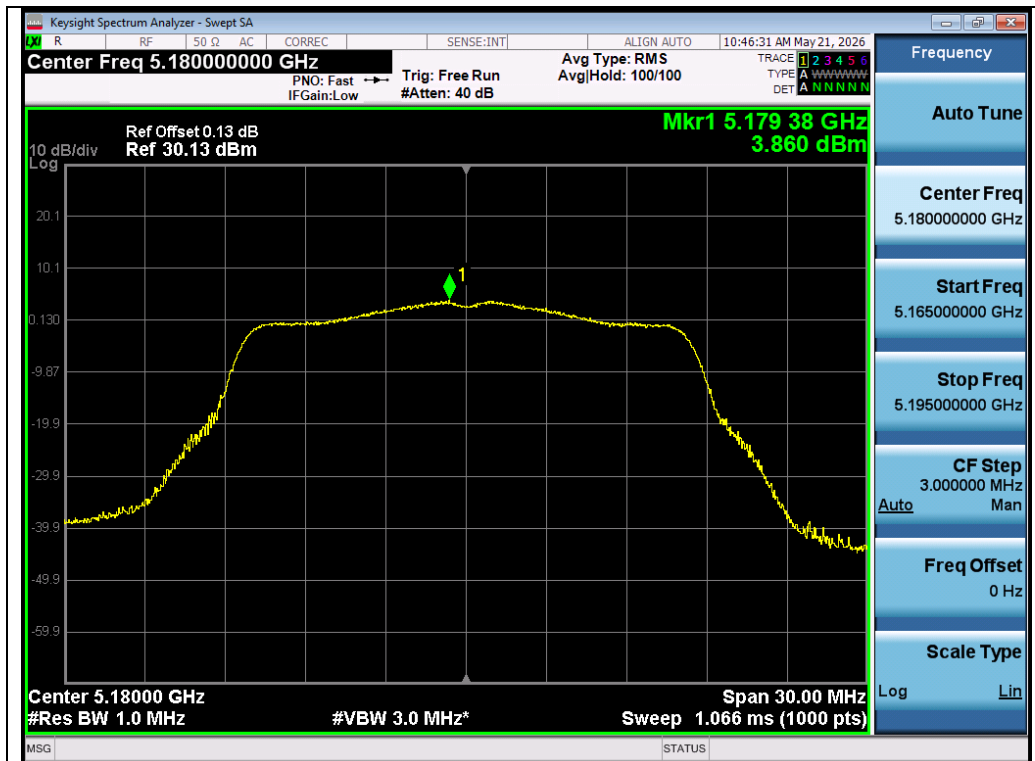
	5795	-3.969	-4.055	30	Pass
802.11ac80	5775	-8.8	-8.886	30	Pass

Note:1.Power density(dBm/500kHz) = Power density(dBm/510kHz)+10*log(500/510).

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



Test_Graph_802.11a_Chain A_5180_6Mbps_PSD



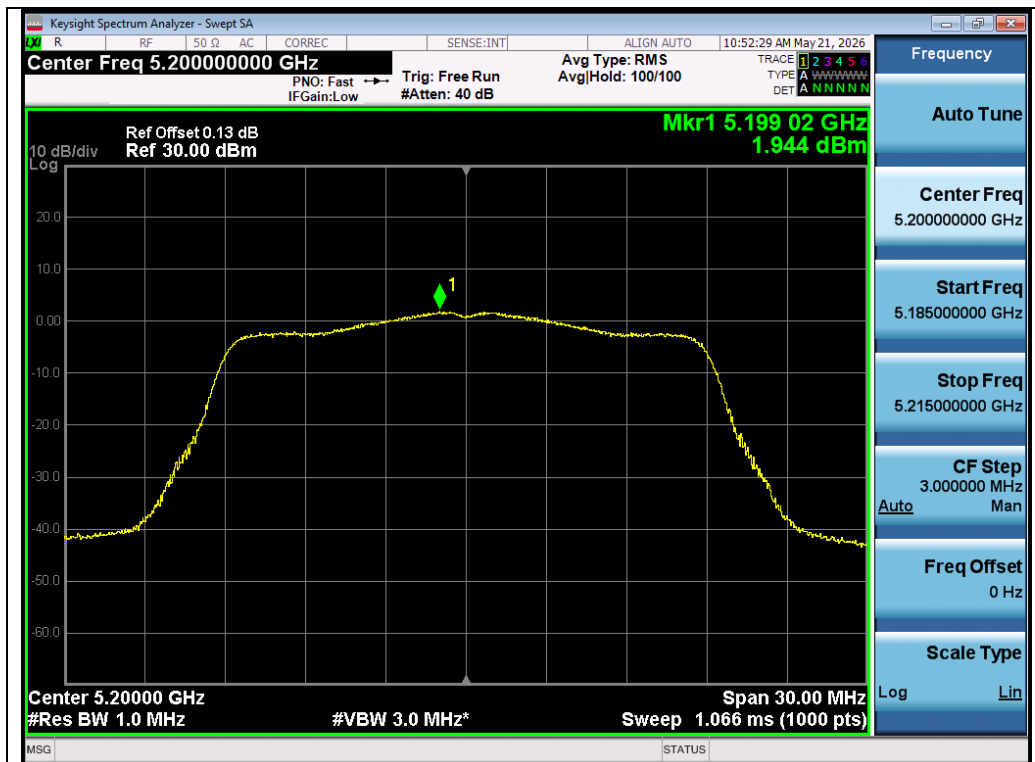
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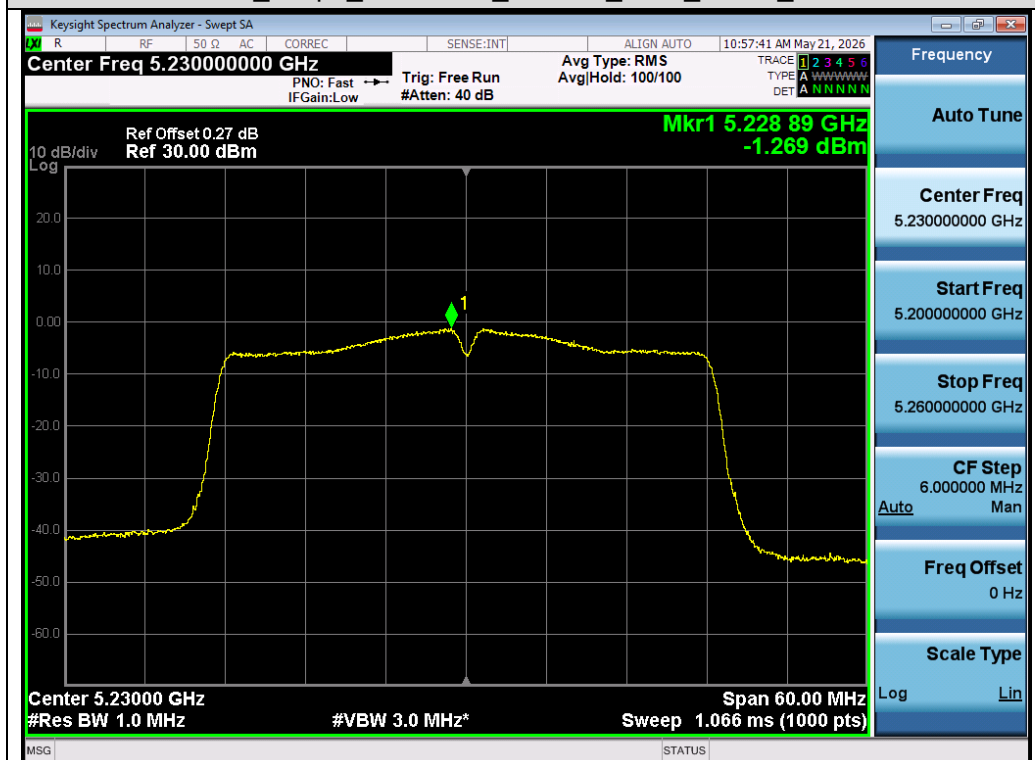
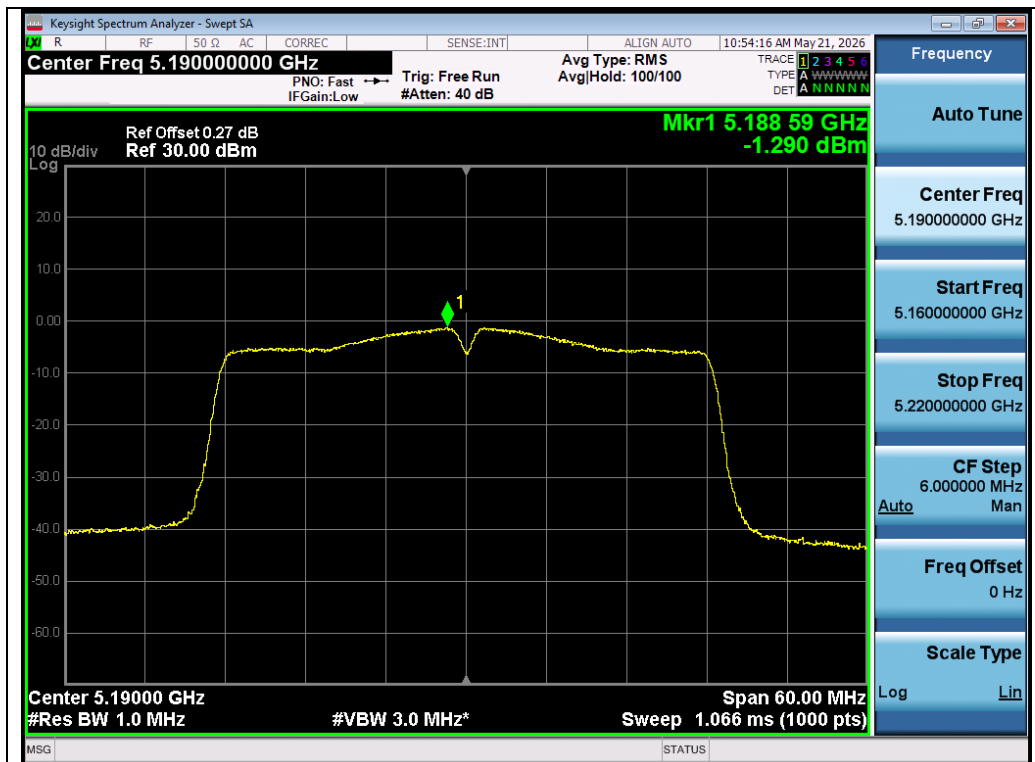
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Test_Graph_802.11n20_Chain A_5240_MCS0_PSD

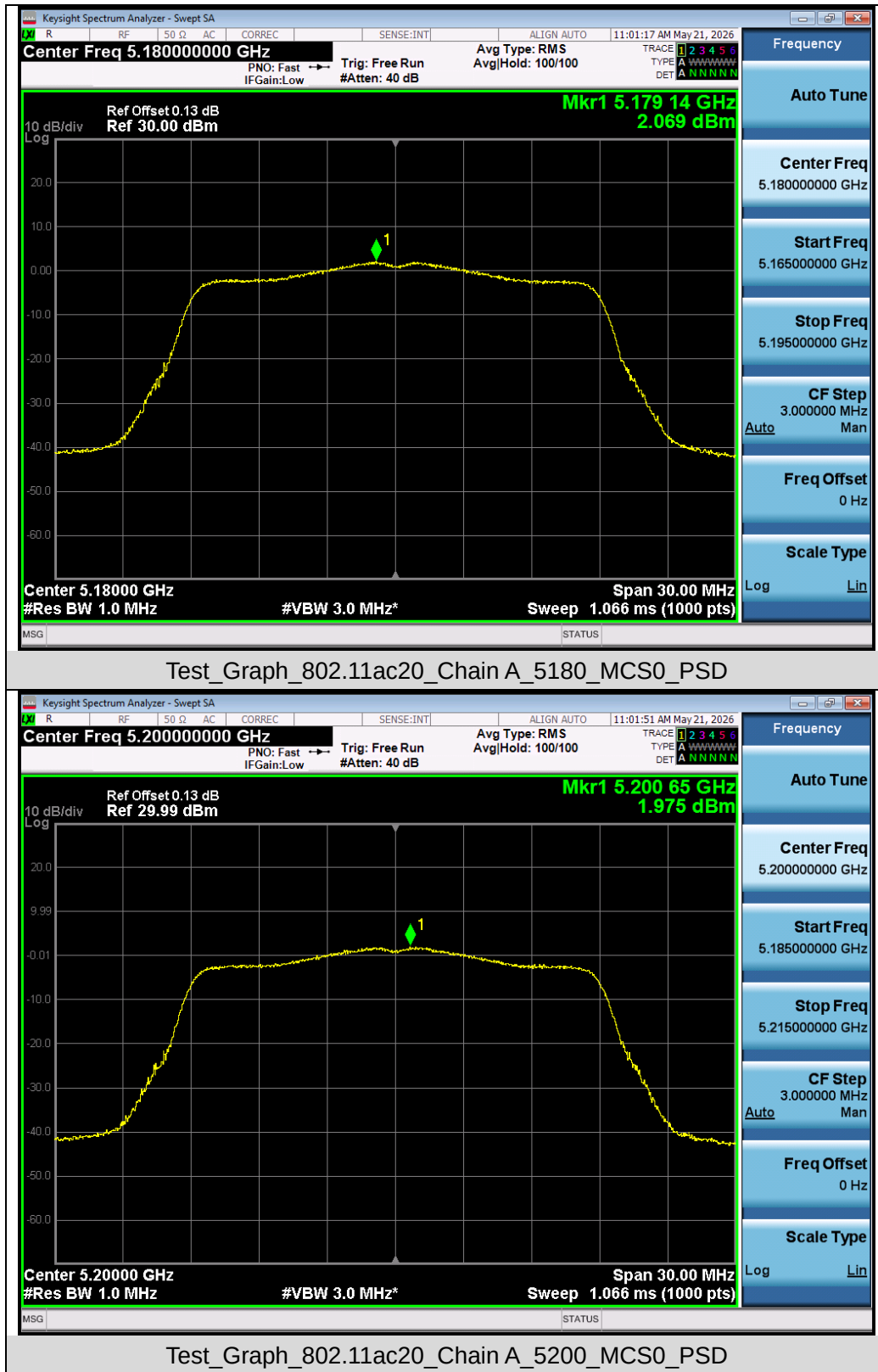
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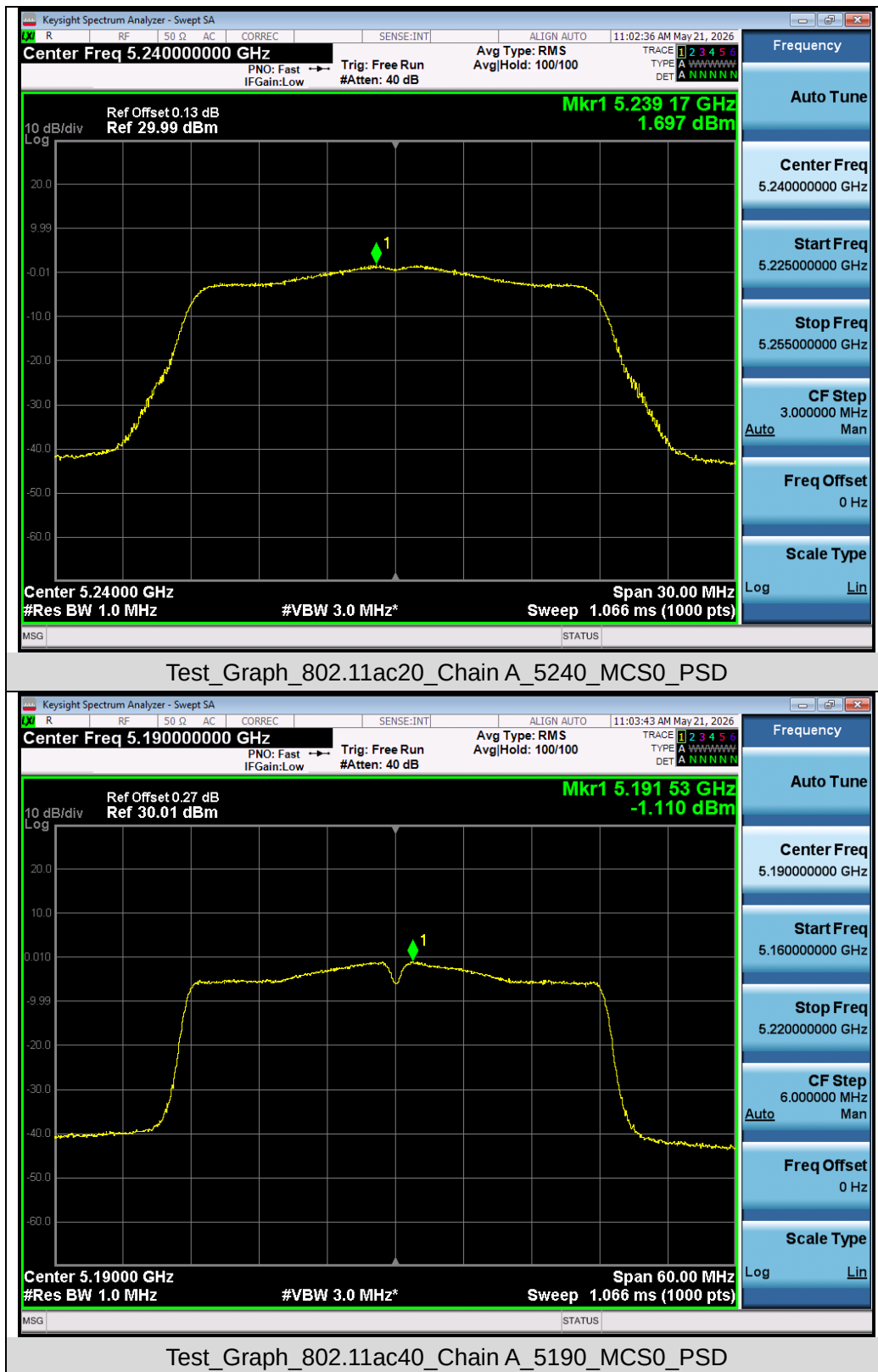
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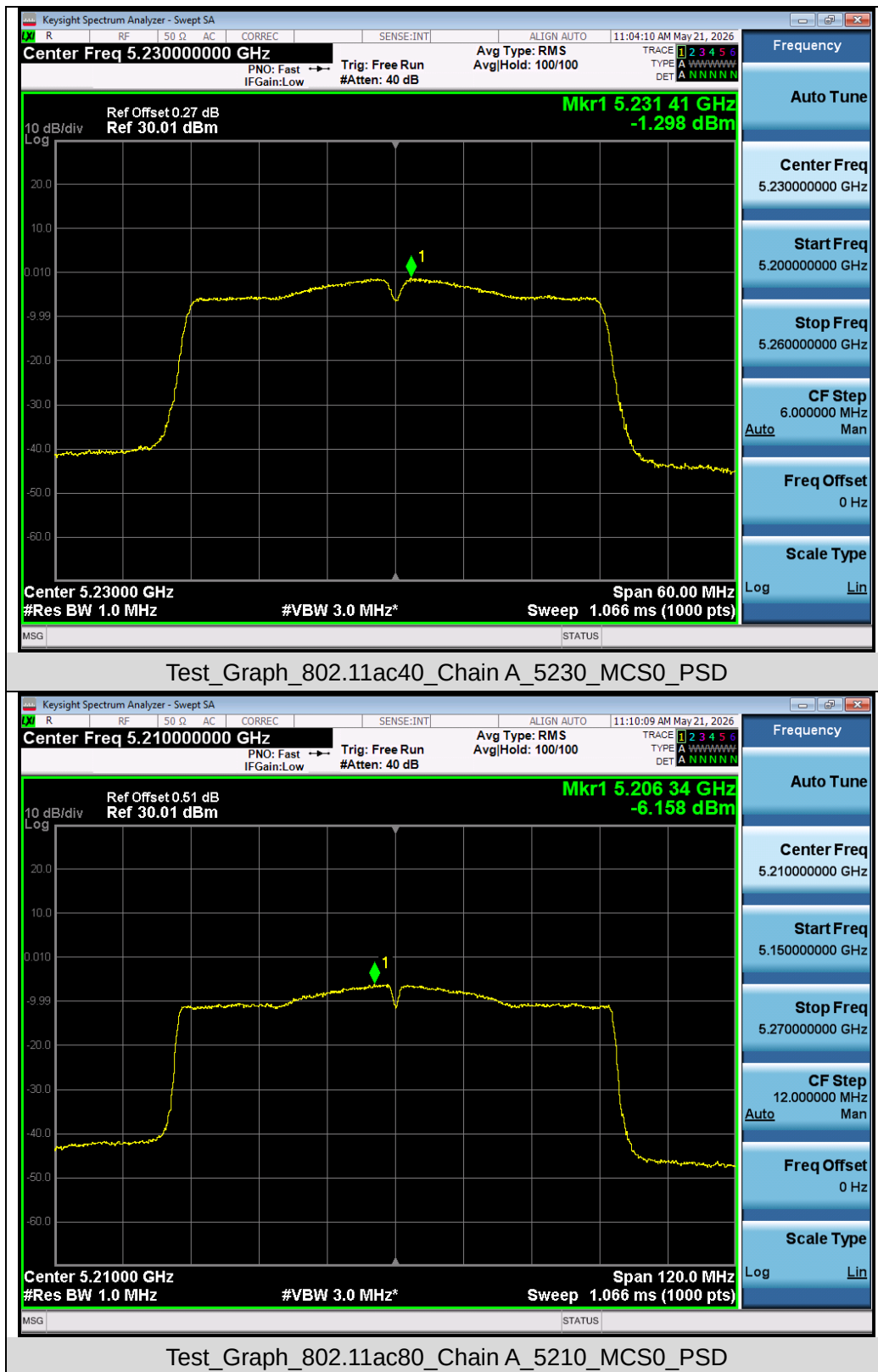
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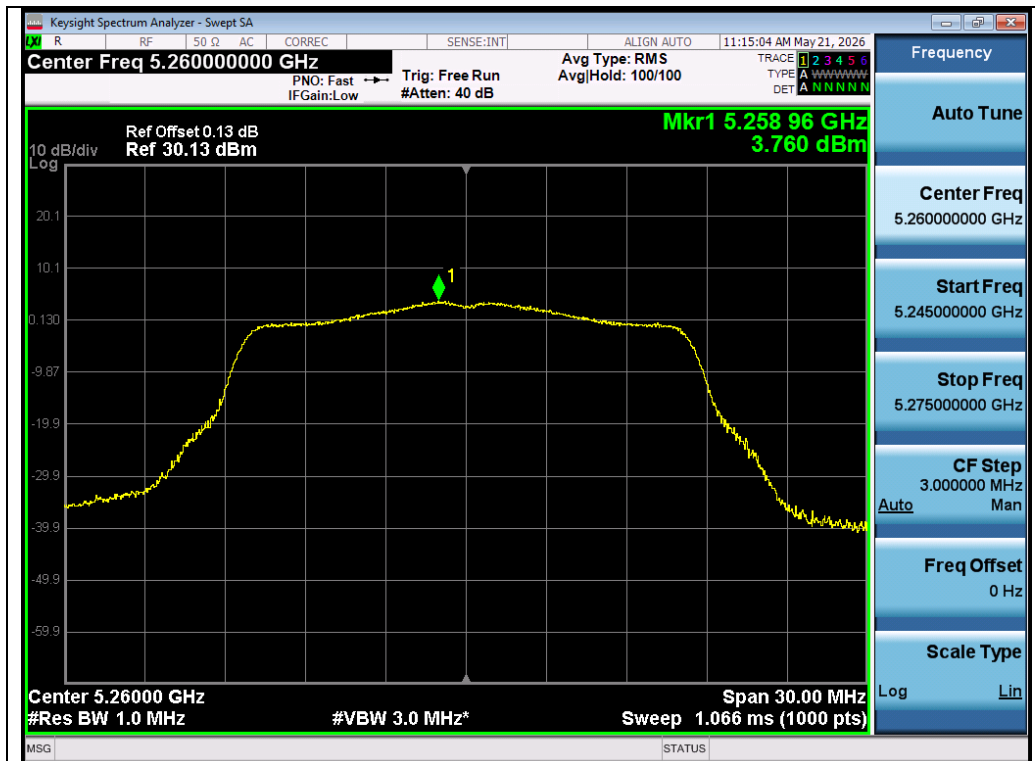
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

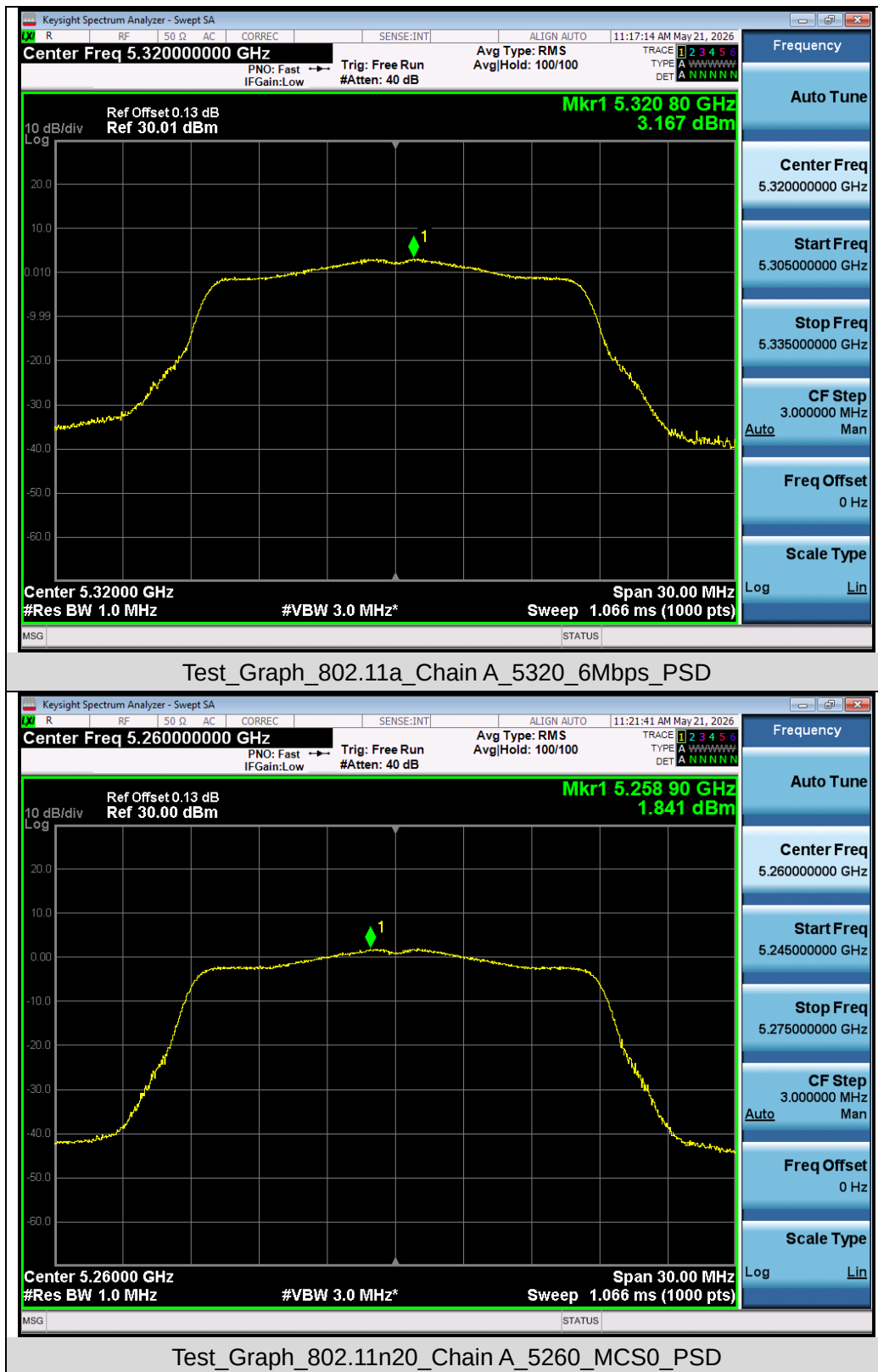


Test_Graph_802.11a_Chain A_5260_6Mbps_PSD



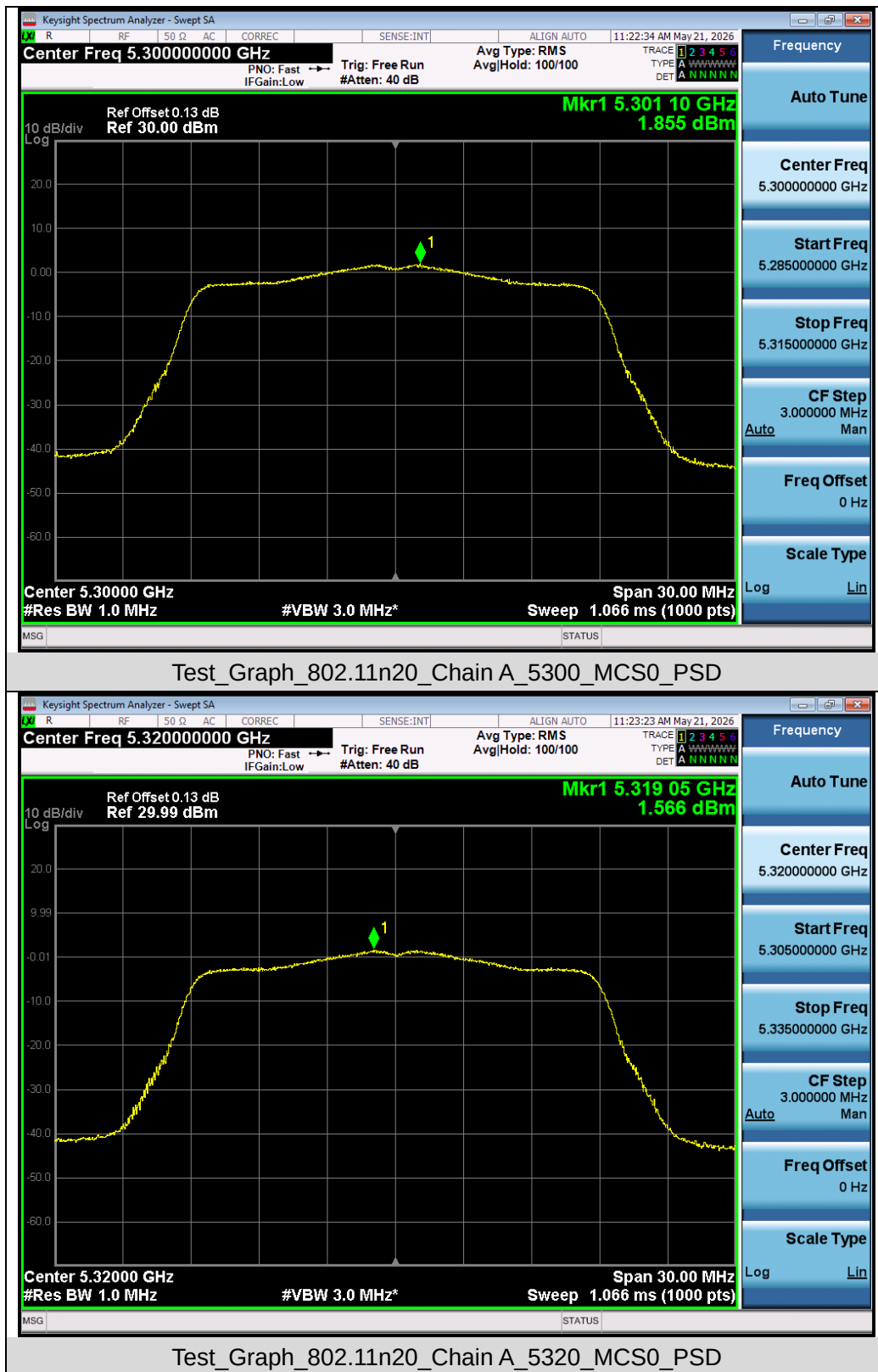
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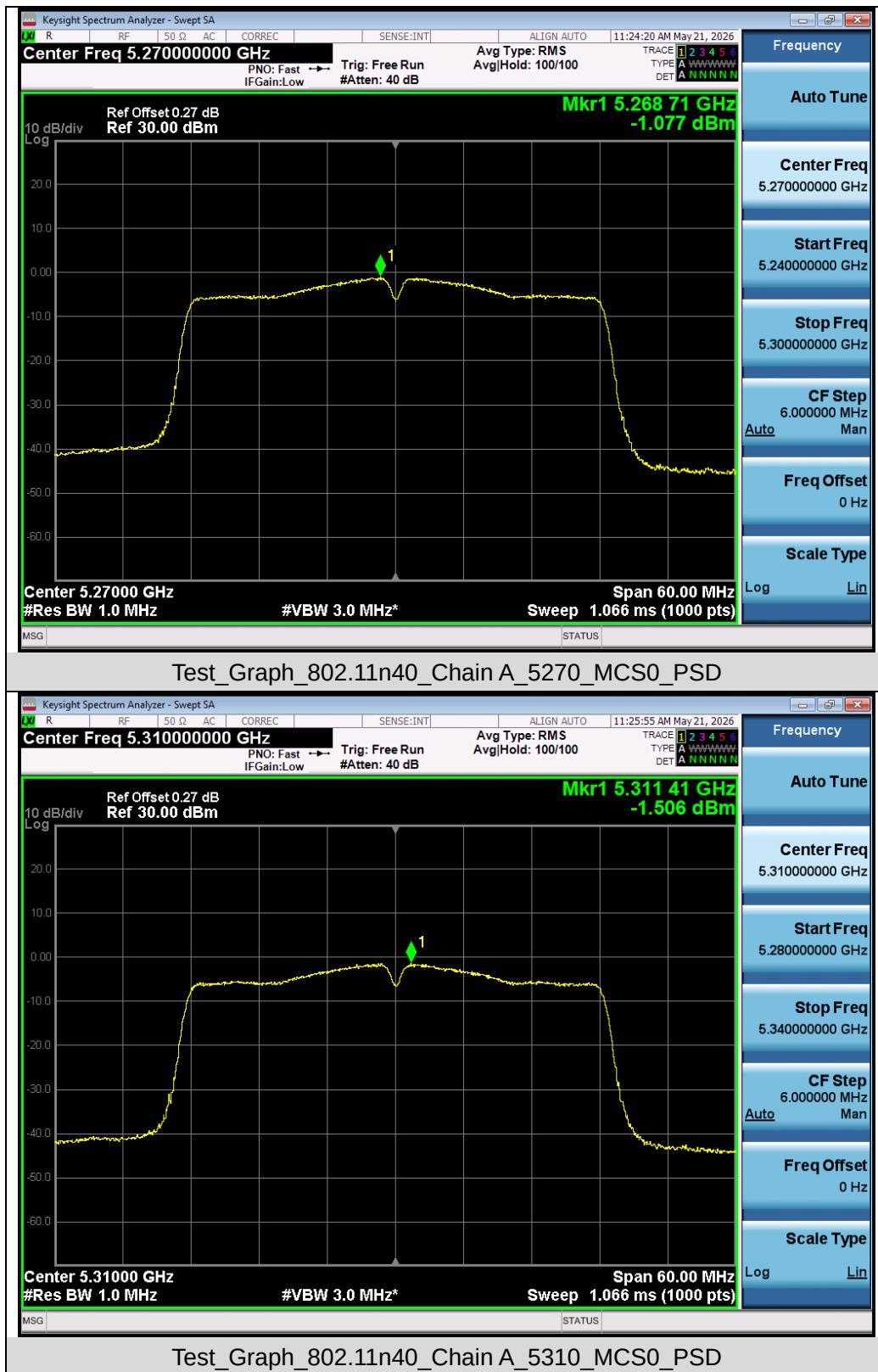
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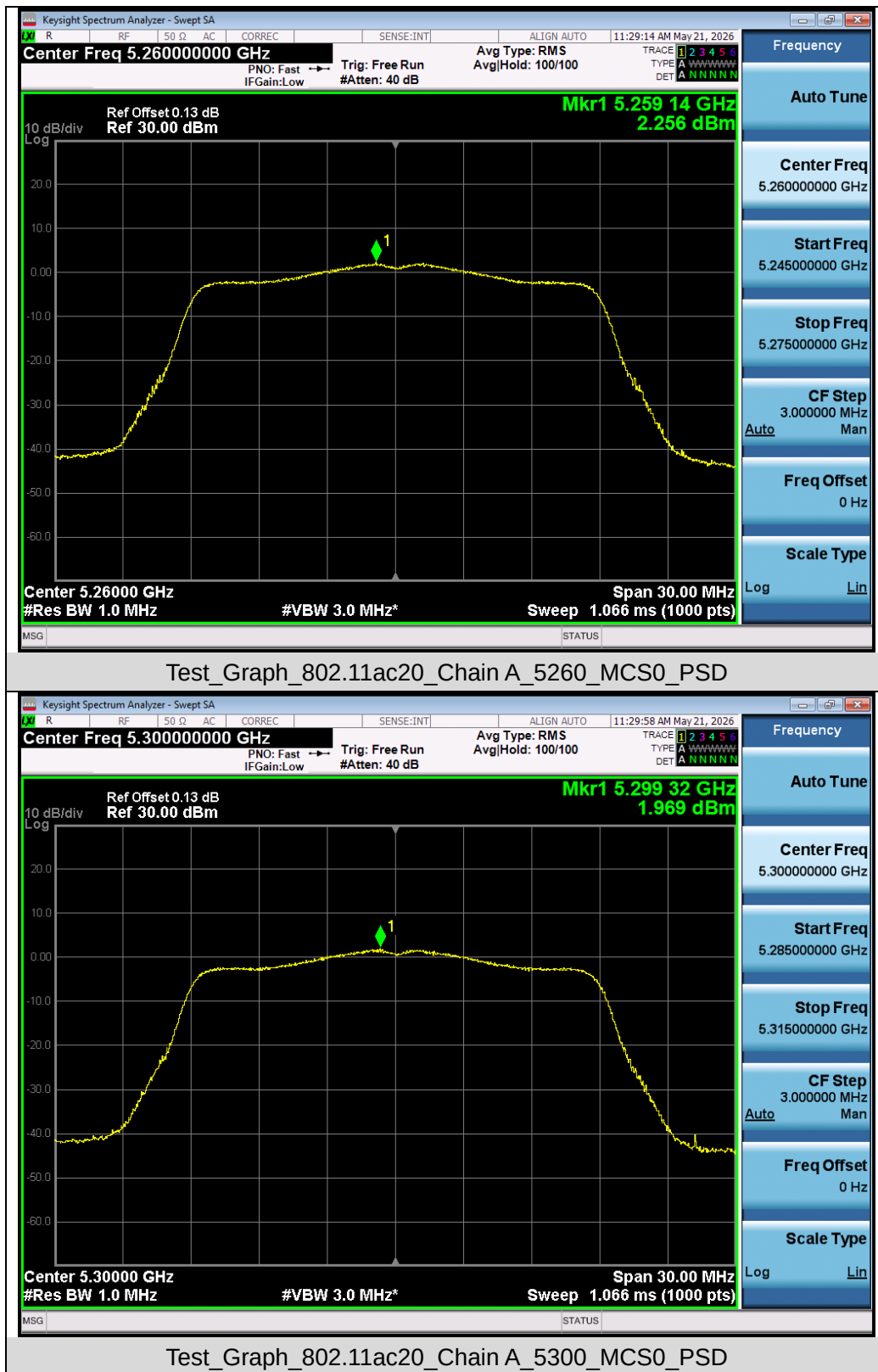


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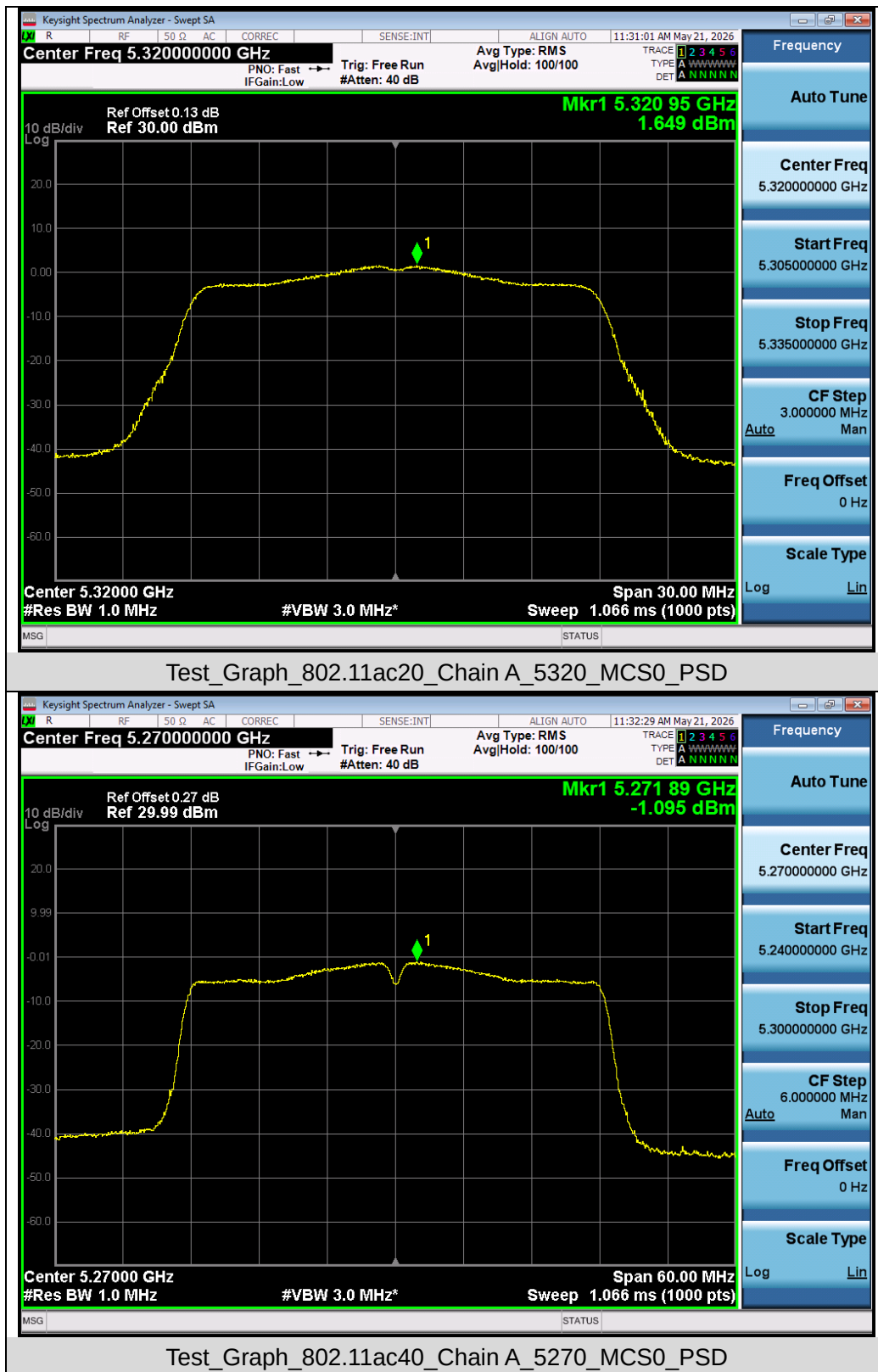


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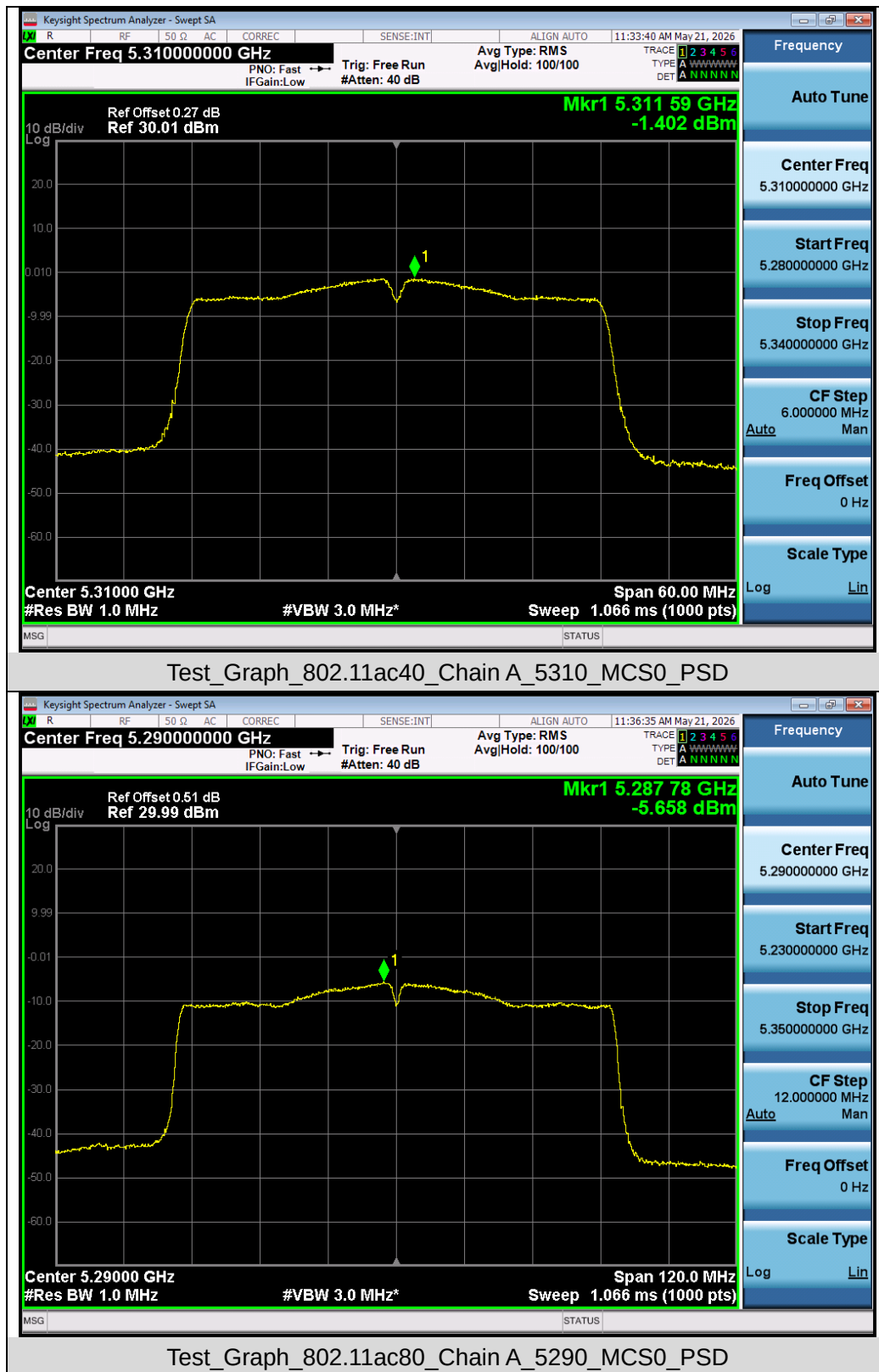
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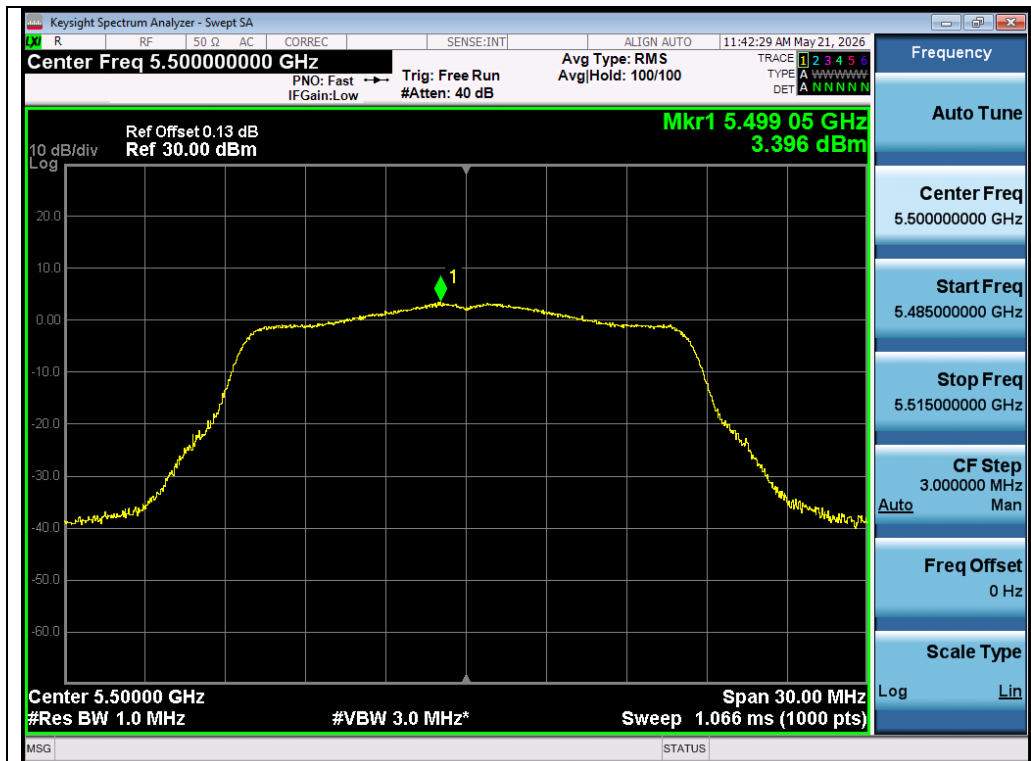
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Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz



Test_Graph_802.11a_Chain A_5500_6Mbps_PSD

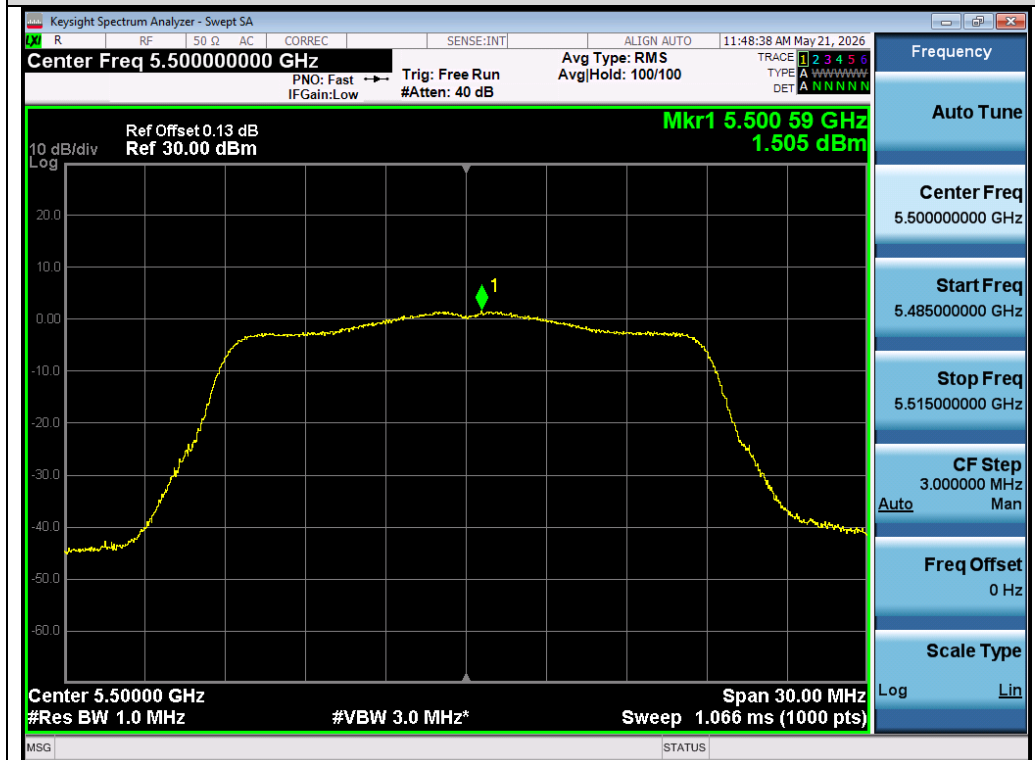


Test_Graph_802.11a_Chain A_5600_6Mbps_PSD

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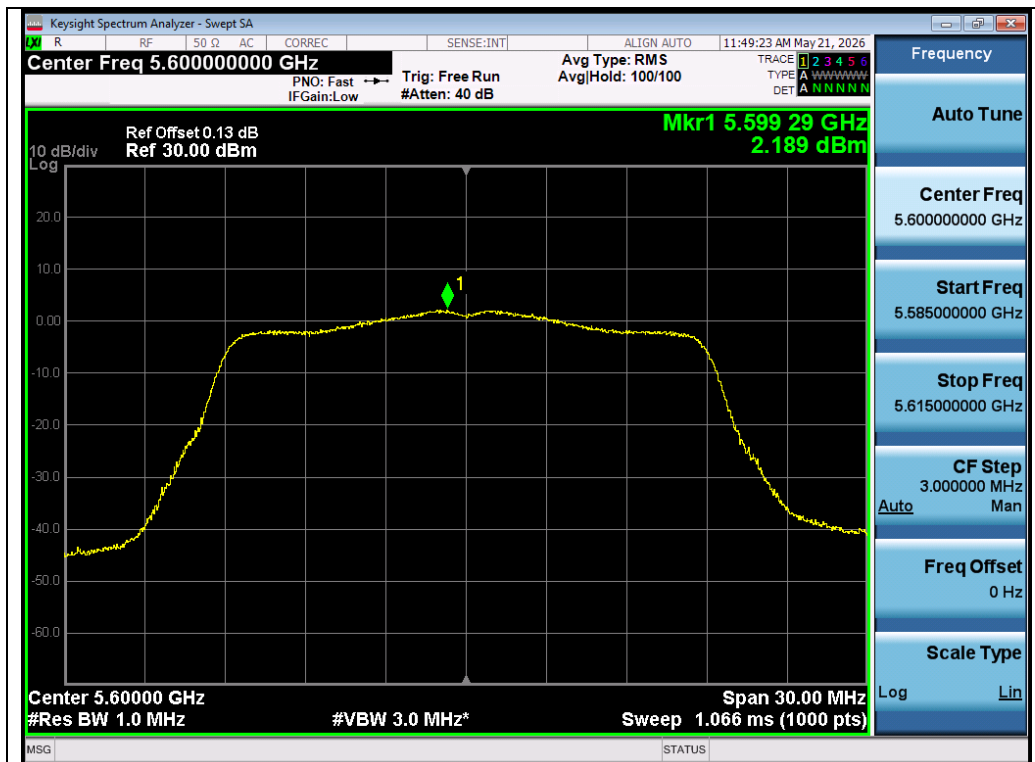
Test_Graph_802.11a_Chain A_5700_6Mbps_PSD



Test_Graph_802.11n20_Chain A_5500_MCS0_PSD

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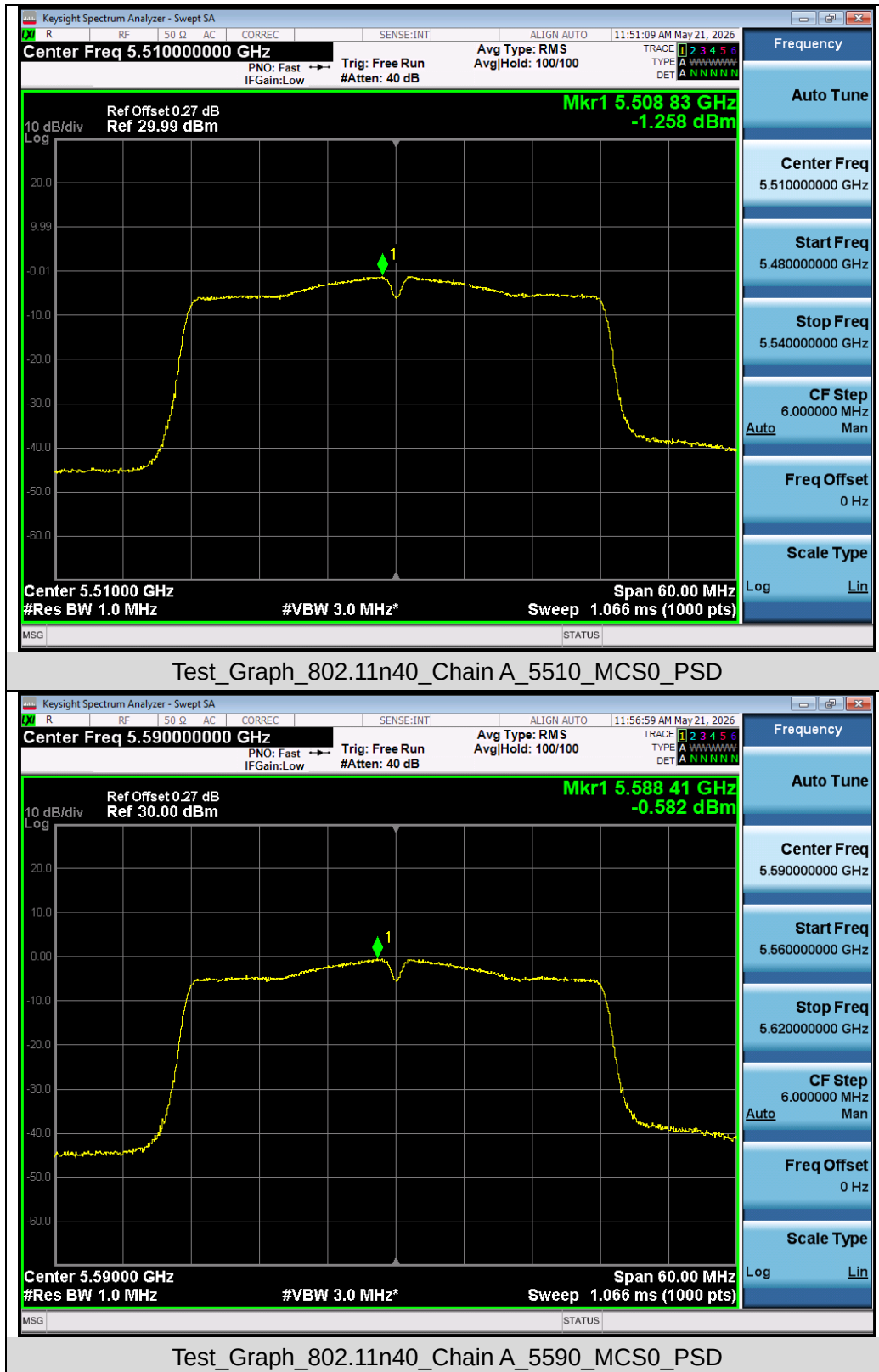


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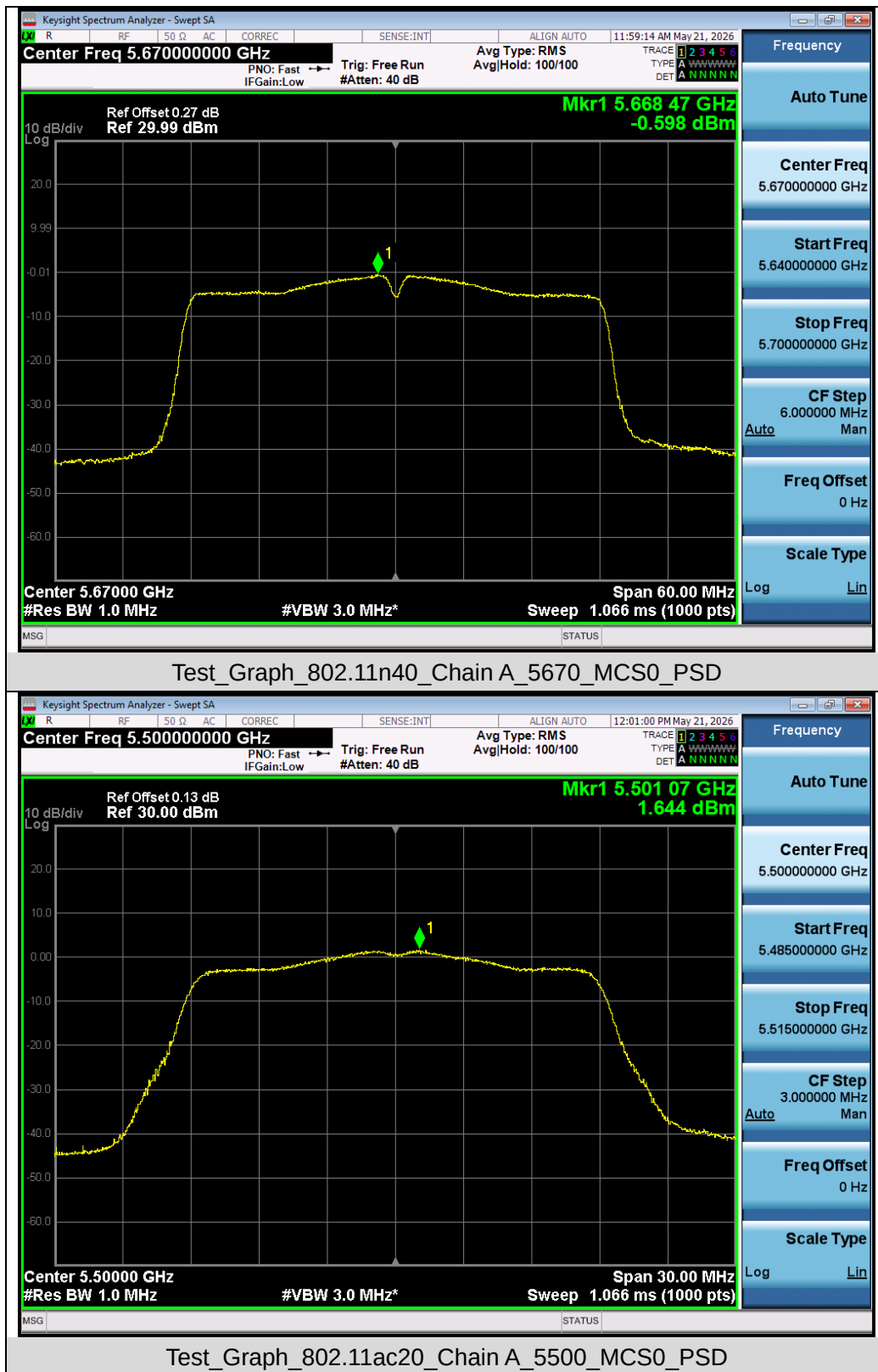


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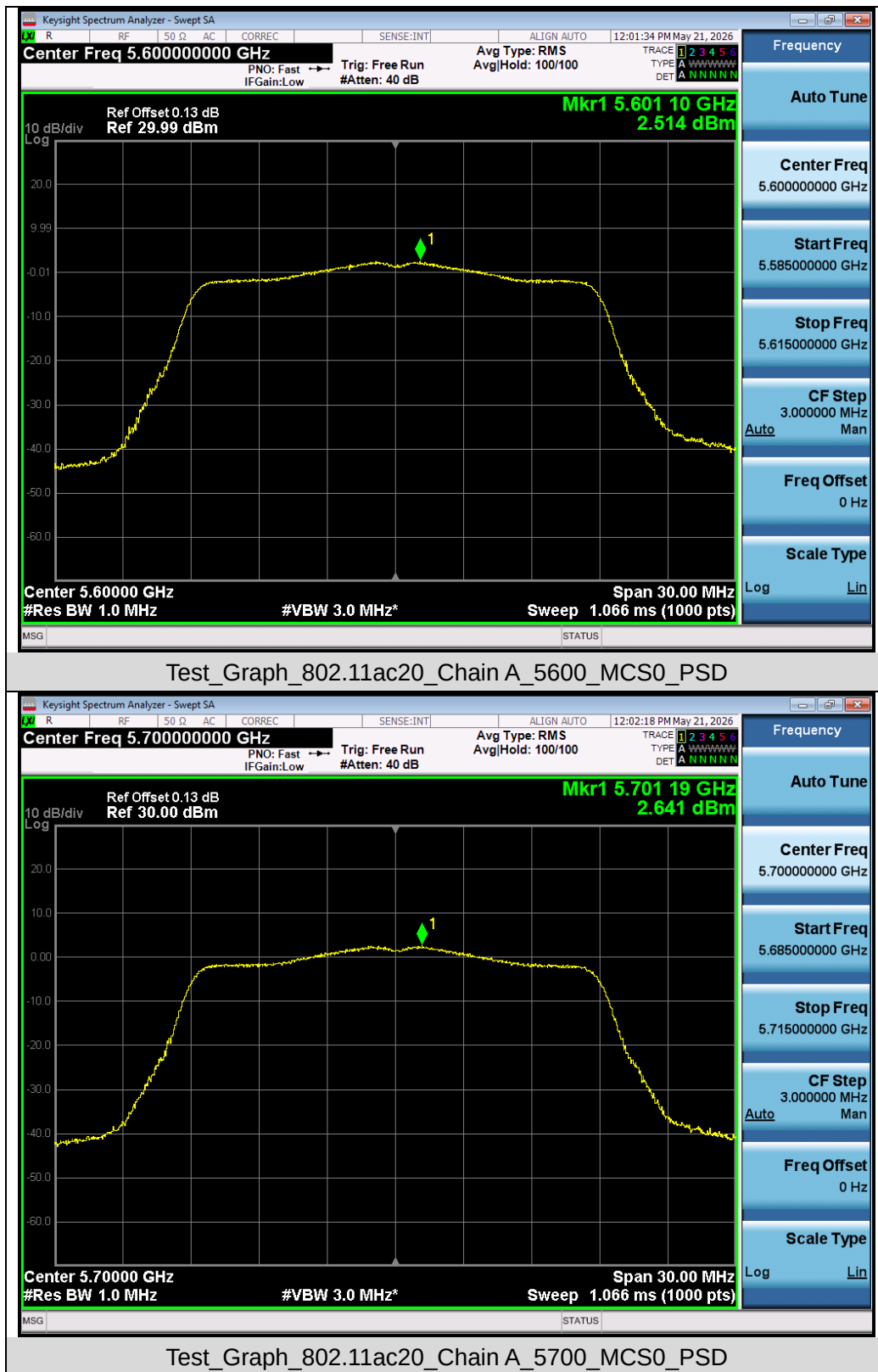
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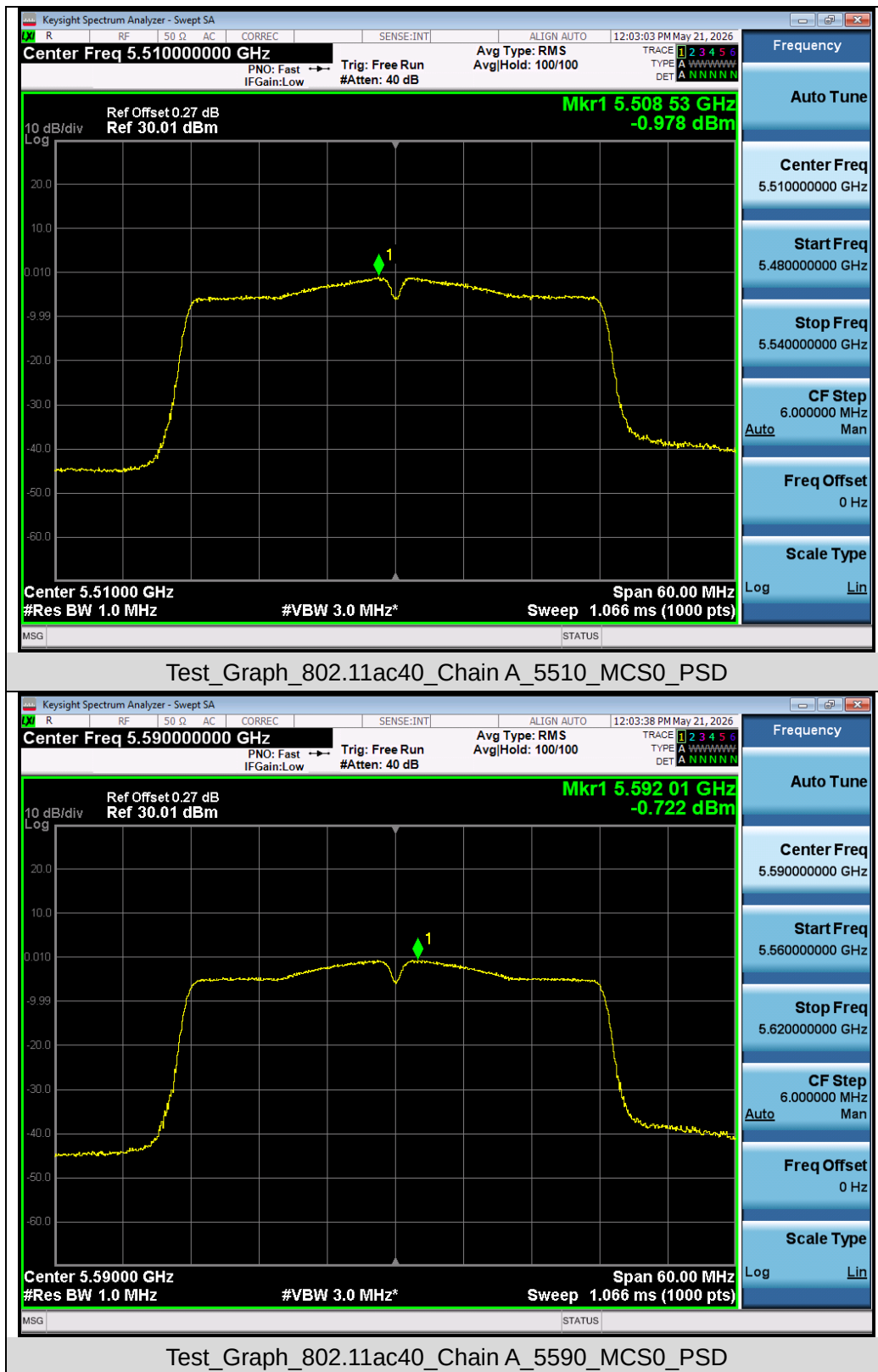


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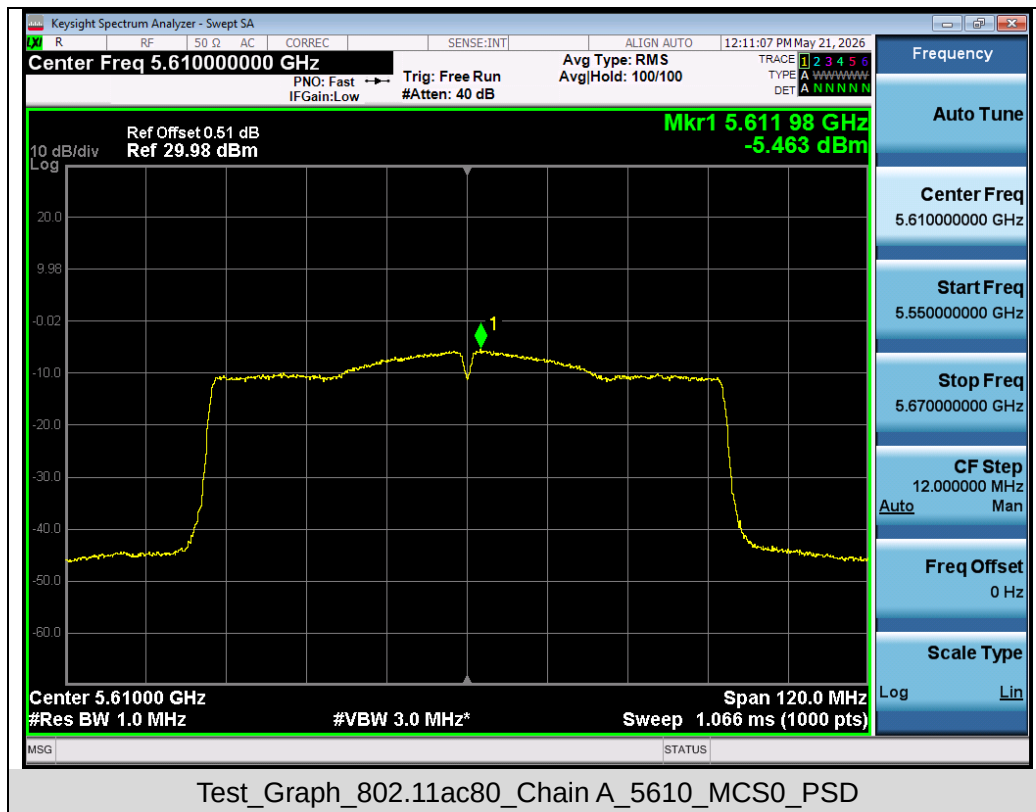


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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



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Test_Graph_802.11a_Chain A_5785_6Mbps_PSD



Test_Graph_802.11a_Chain A_5825_6Mbps_PSD

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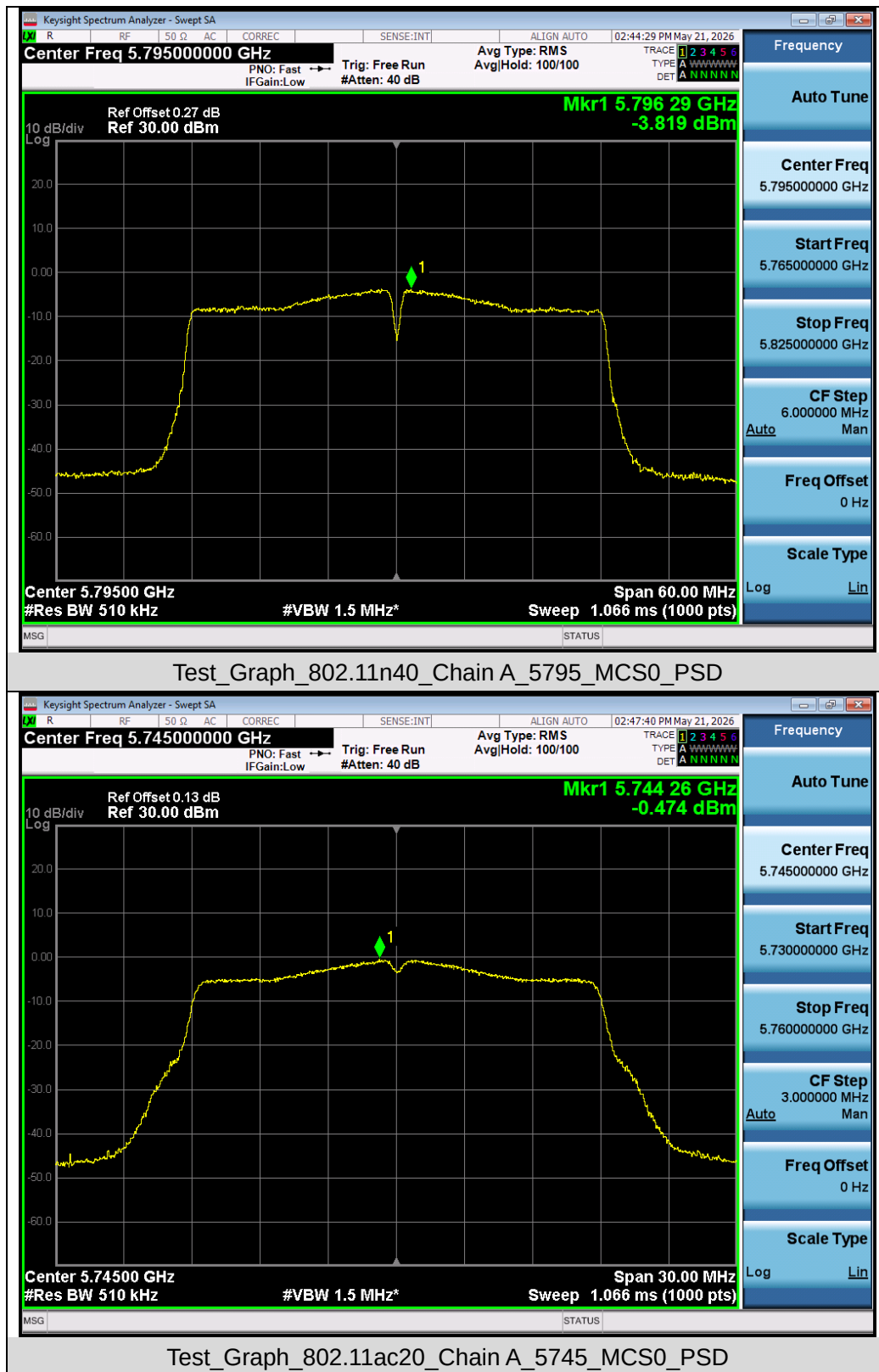
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Test_Graph_802.11n40_Chain A_5755_MCS0_PSD

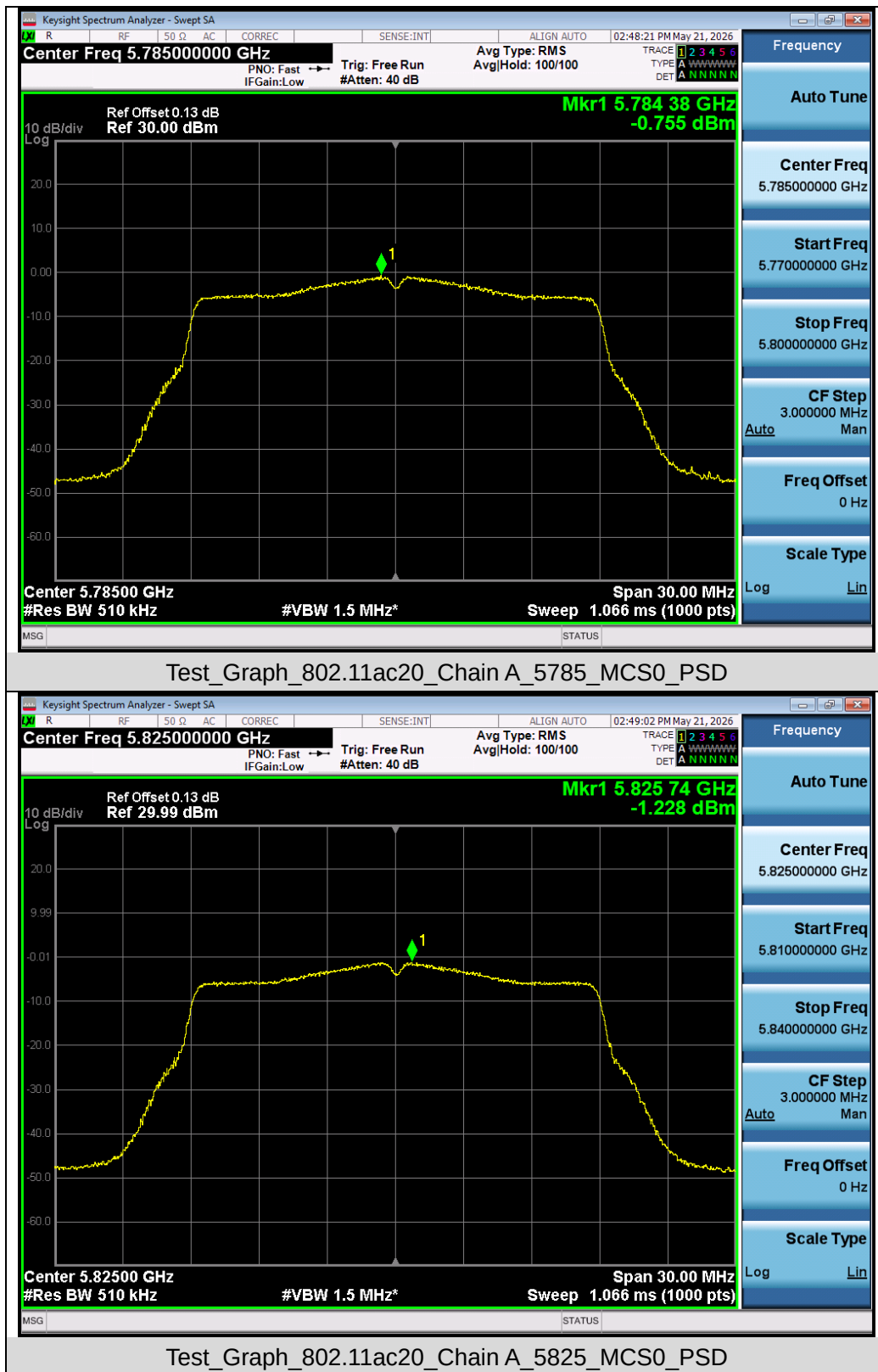
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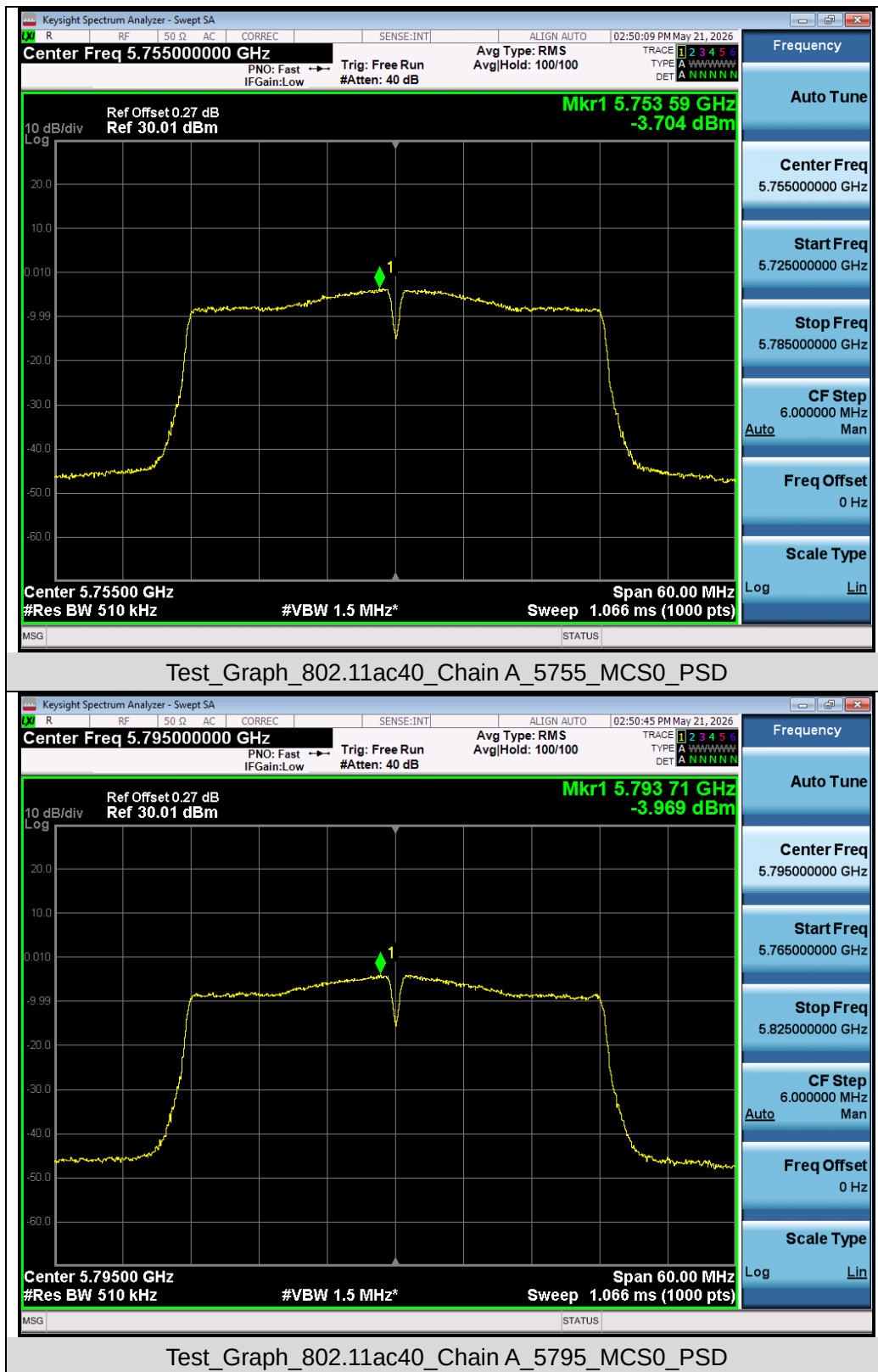
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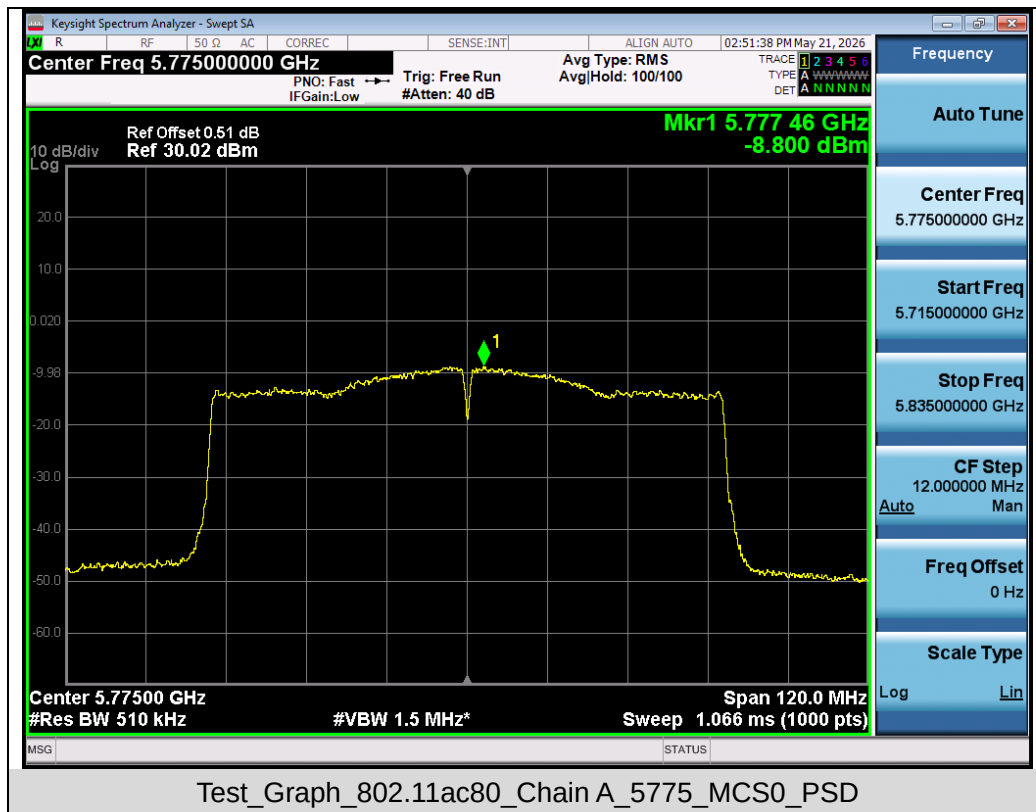
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10. Conducted Band Edge and Out-of-Band Emissions

10.1 Provisions Applicable

Restricted bands	Applicable to	Limit	
	789033 D02 General UNII Test Procedures New Rules v02r01	Field strength at 3m (dBuV/m)	
		PK: 74	AV: 54
Out of the restricted bands	Applicable to	EIRP Limit (dBm/MHz)	Equivalent field Strength at 3m (dBuV/m)
	FCC 15.407(b)(1)	PK: -27	PK: 68.2
	15.407(b)(2)		
	15.407(b)(3)		
	15.407(b)(4)	See Note 2	

Note 1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000}{3} \sqrt{30 P} \quad \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

Note 2: 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.

10.2 Measurement Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
3. RBW = 1MHz; VBW= 3MHz; Sweep = auto; Detector function = Peak. (Test frequency below 1GHz)
4. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = Peak. (Test frequency Above 1GHz)
5. Set SPA Trace 1 Max hold, then View.
6. Antenna gain and path loss have been compensated to the Correction factor.
7. Mark the maximum useless stray point and compare it with the limit value to record the result.
8. The manufacturer of RF external cable claims that the cable loss is 0.5dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment.
9. Input correction factor includes external cable loss, attenuator amplitude compensation and antenna gain.

The formula is:

$$\text{Input correction factor(dB)} = \text{Cable Loss(dB)} + \text{Attenuator attenuation value(dB)} + \text{antenna gain(dBi)}$$