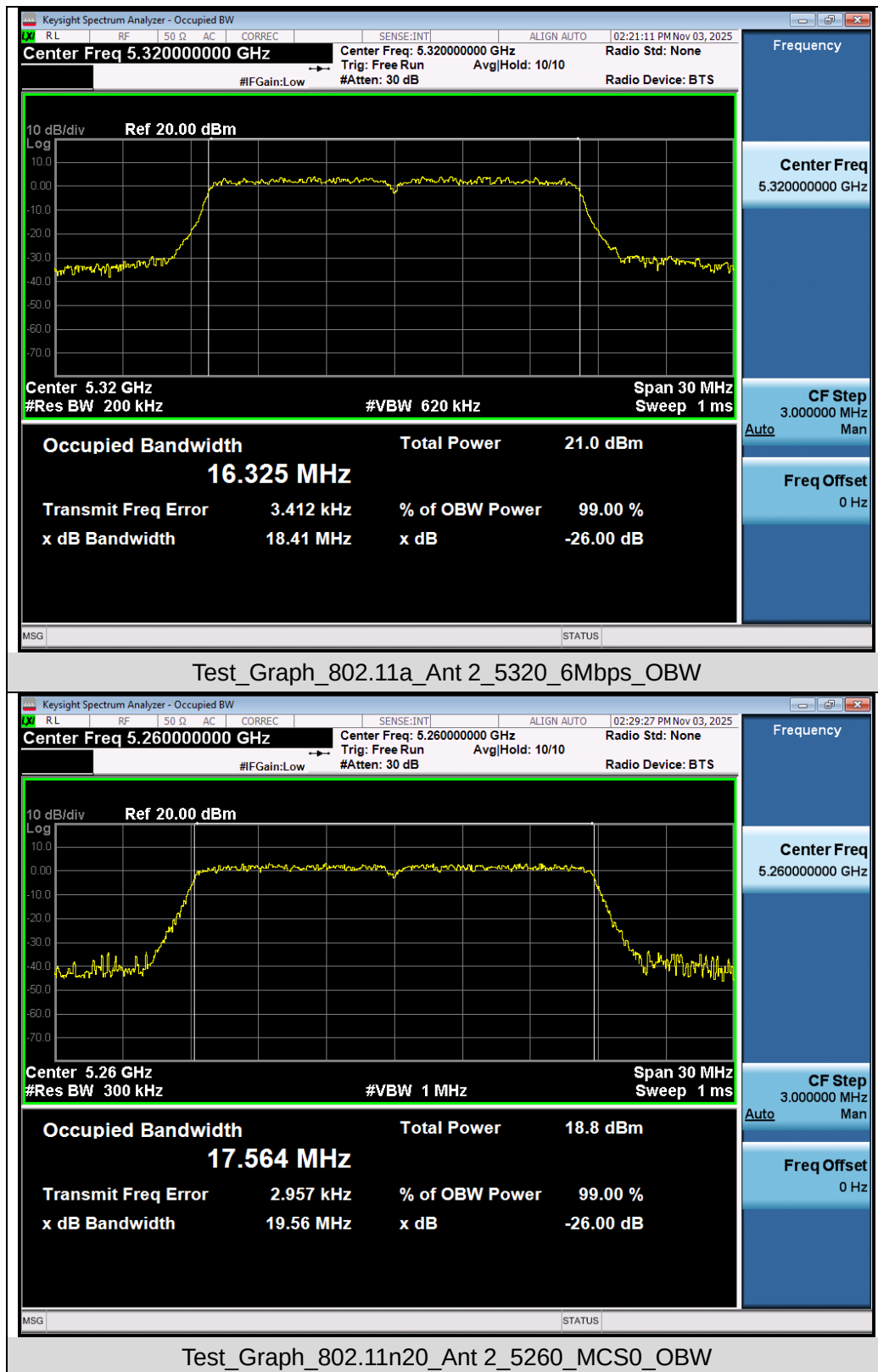
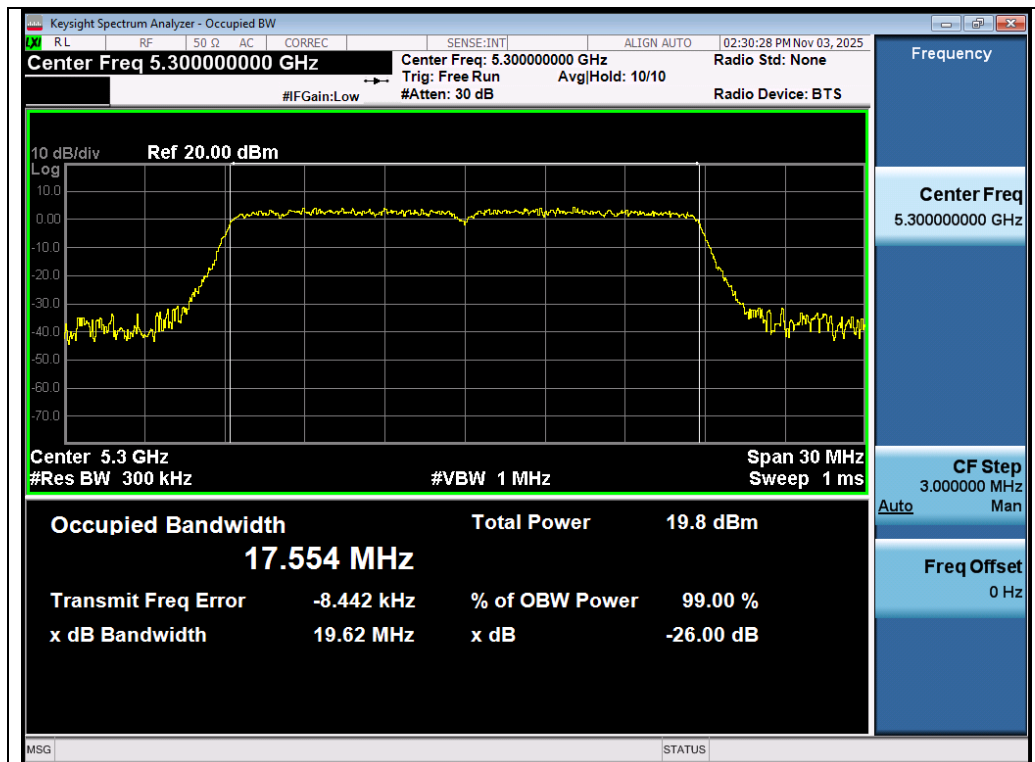


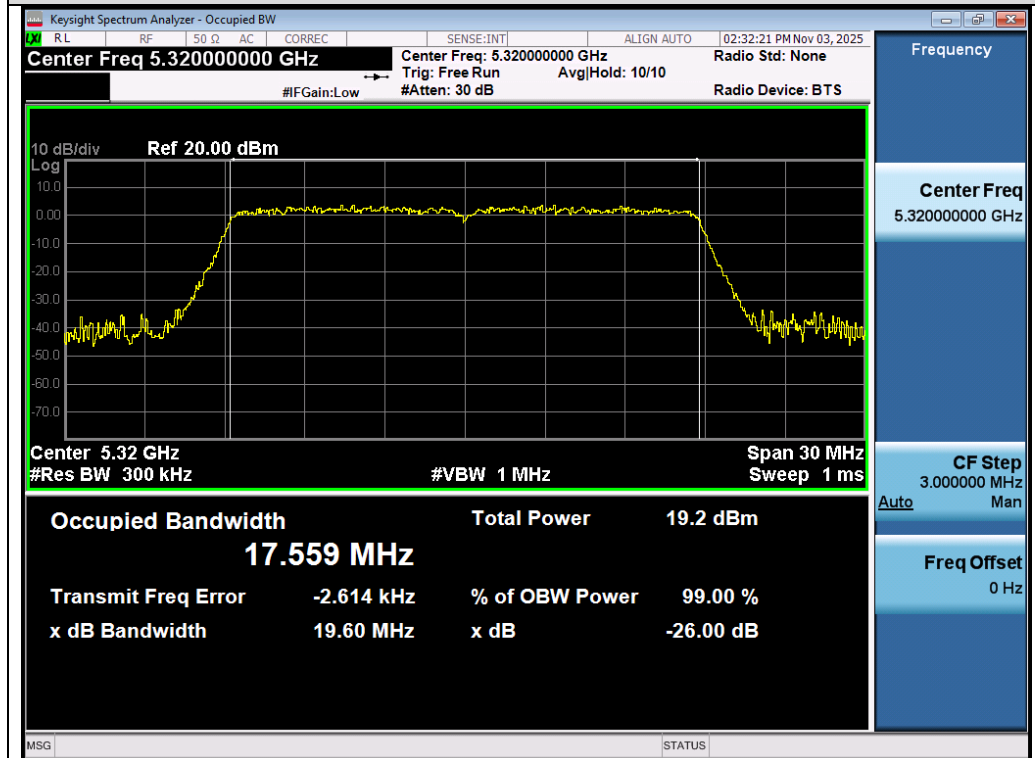


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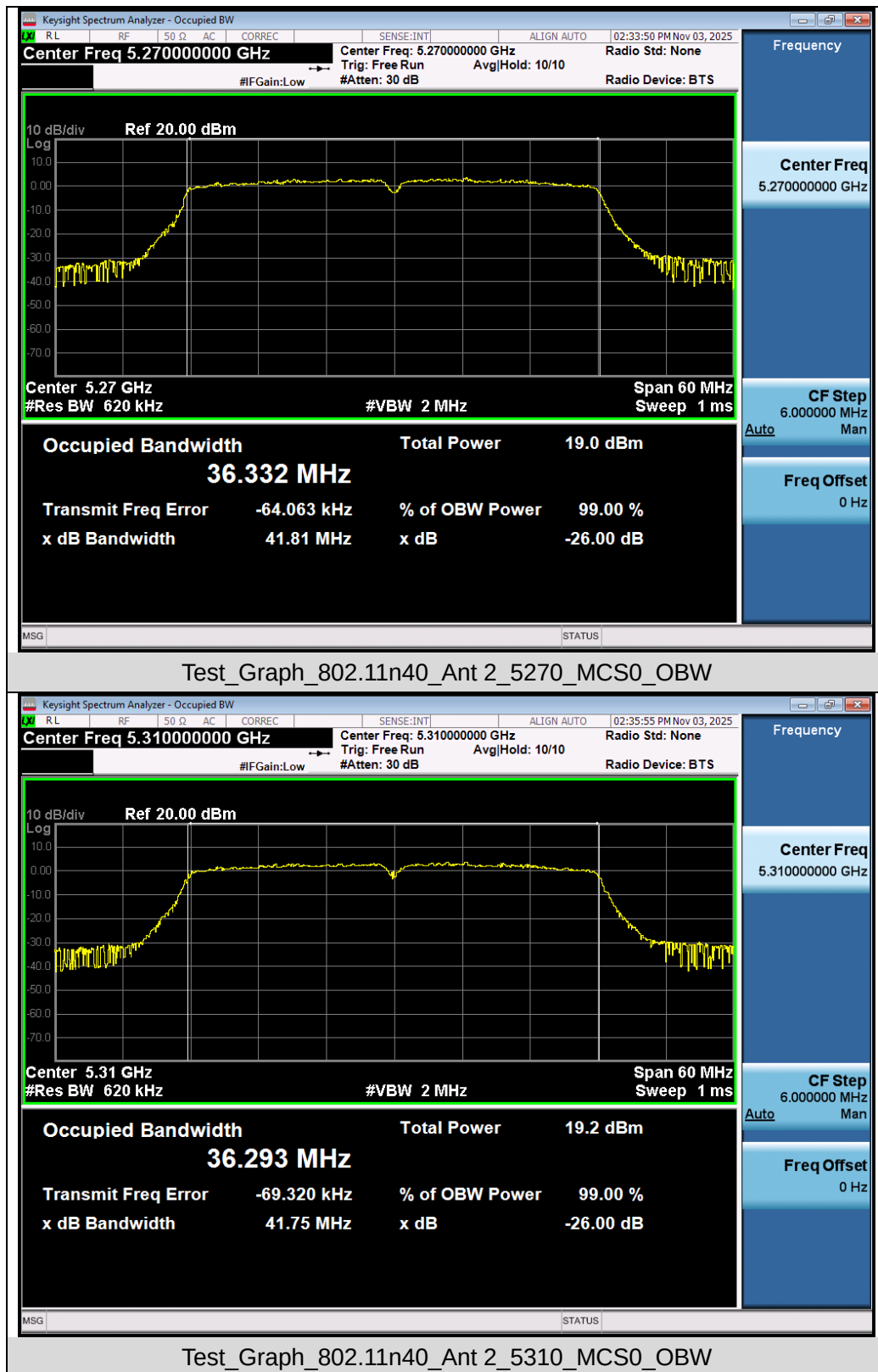


Test_Graph_802.11n20_Ant 2_5300_MCS0_OBW



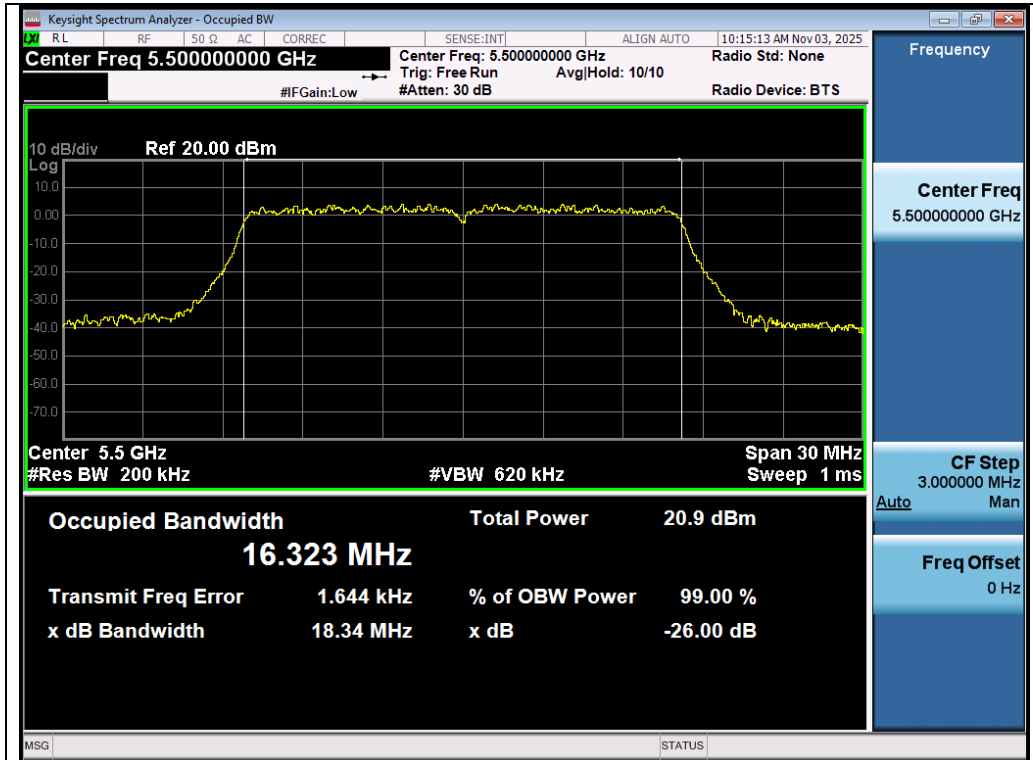
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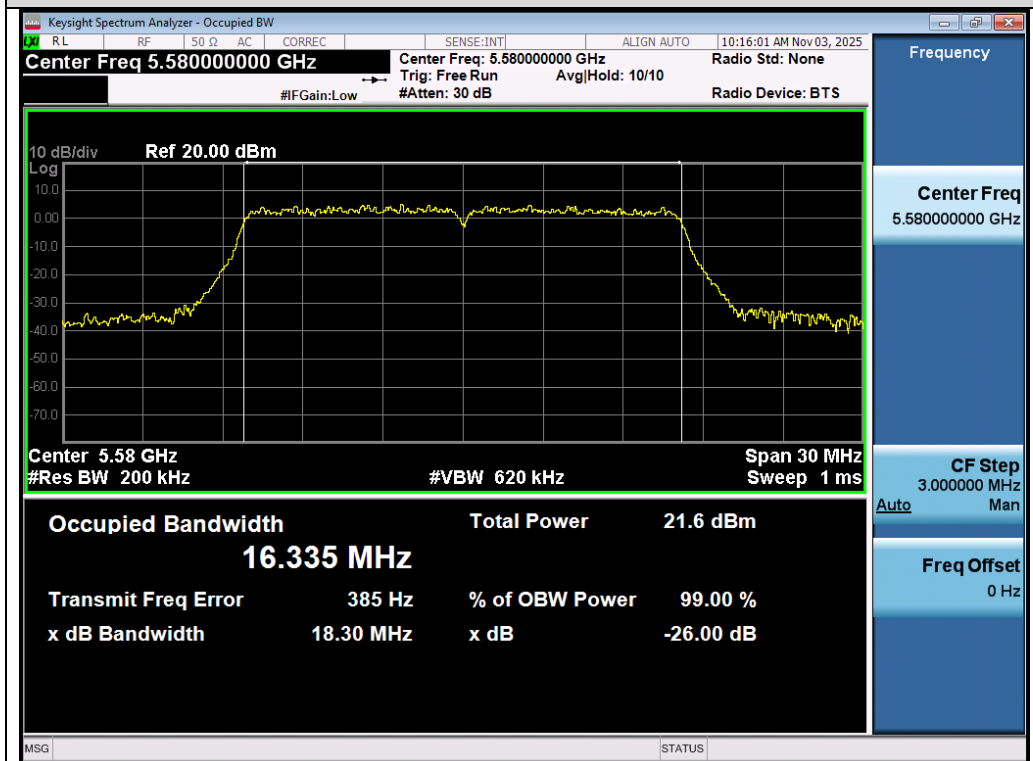


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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.470-5.725 GHz

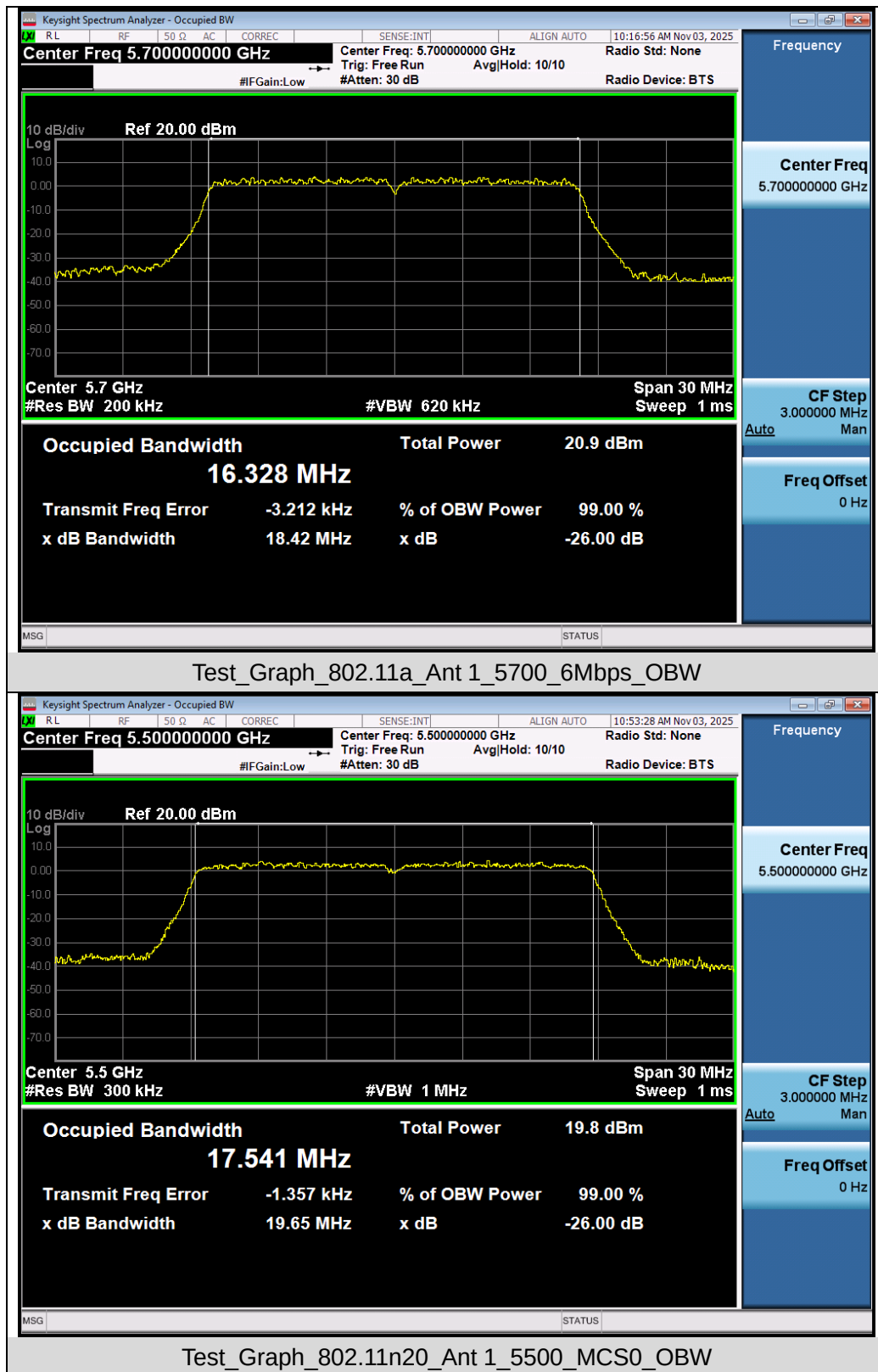


Test_Graph_802.11a_Ant 1_5500_6Mbps_OBW

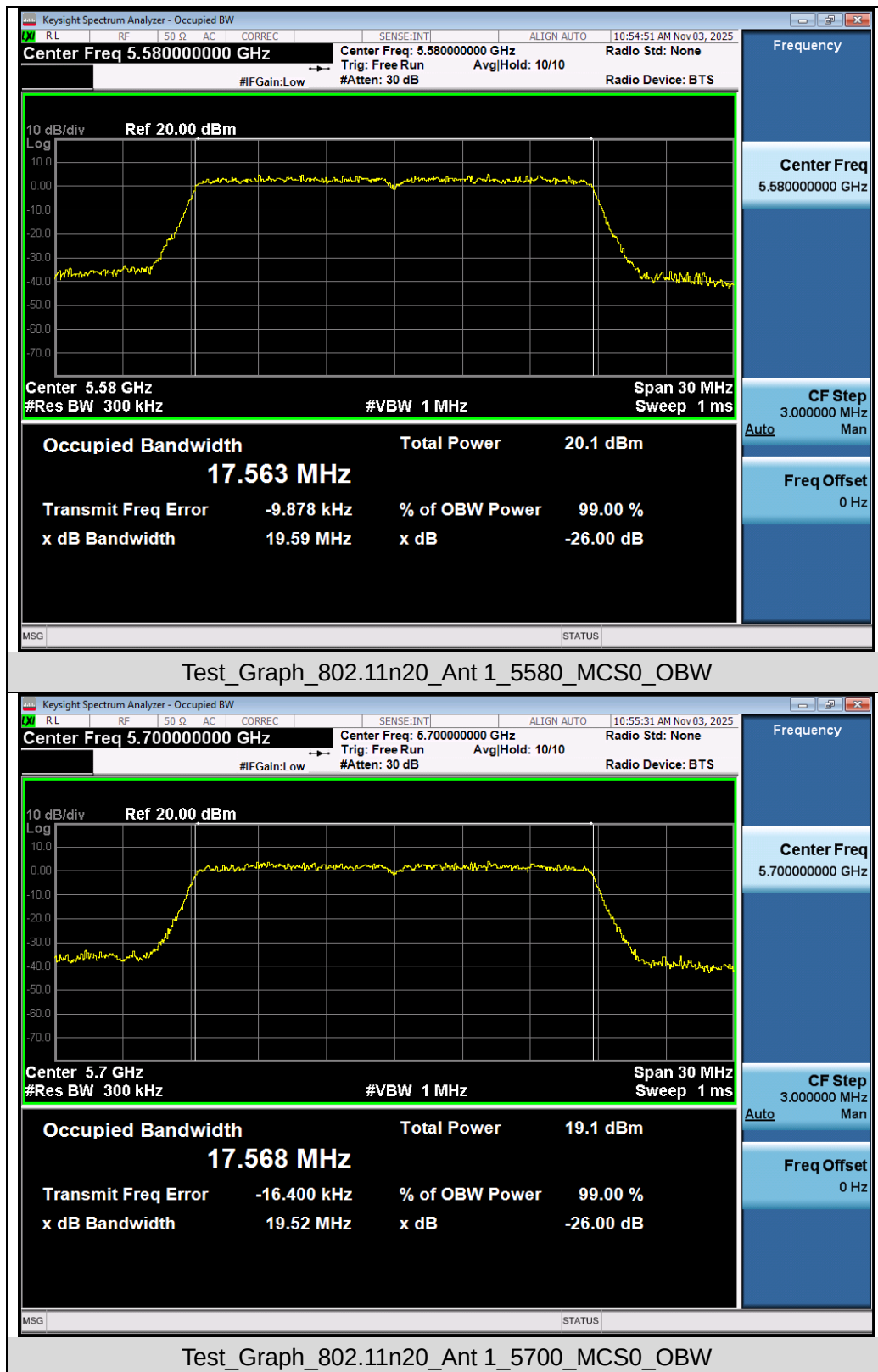


Test_Graph_802.11a_Ant 1_5580_6Mbps_OBW

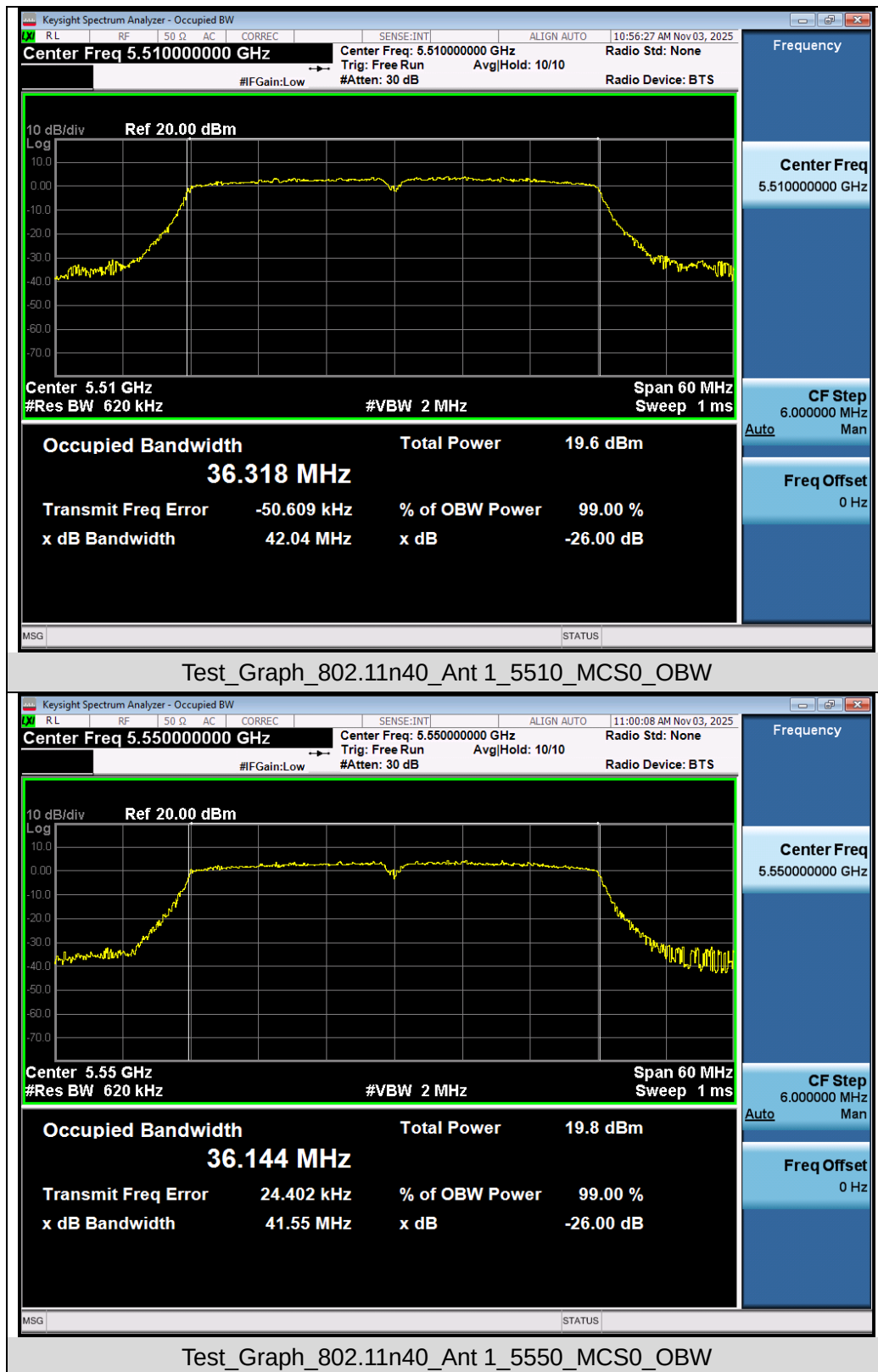
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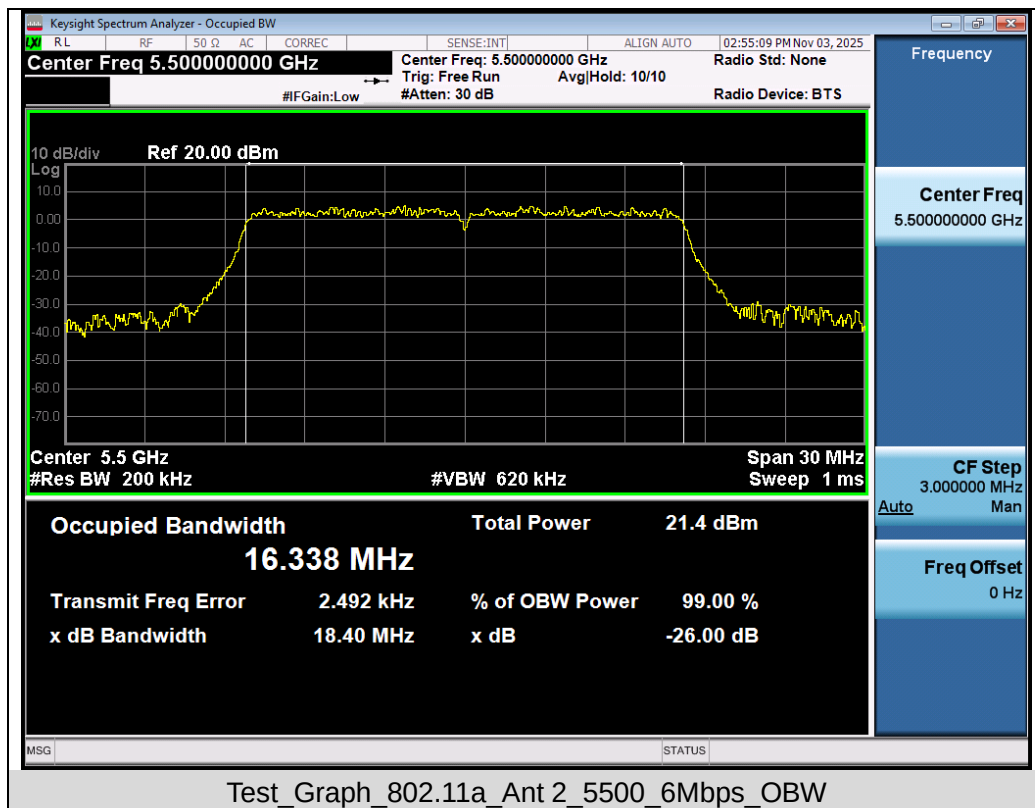
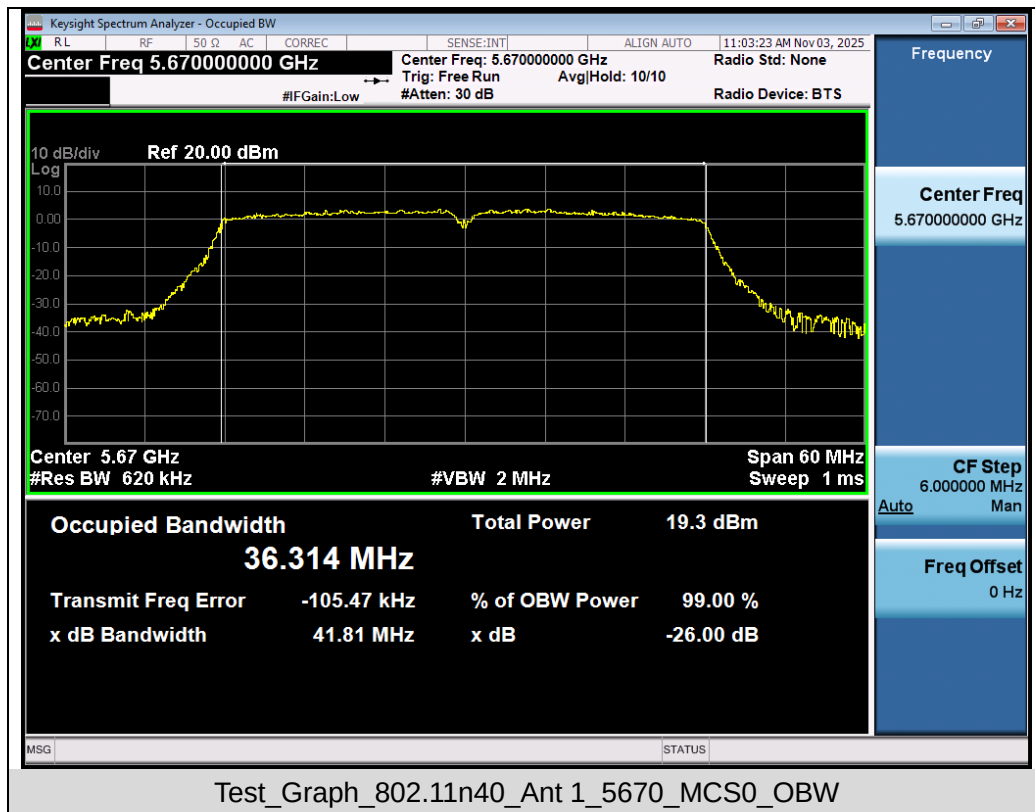
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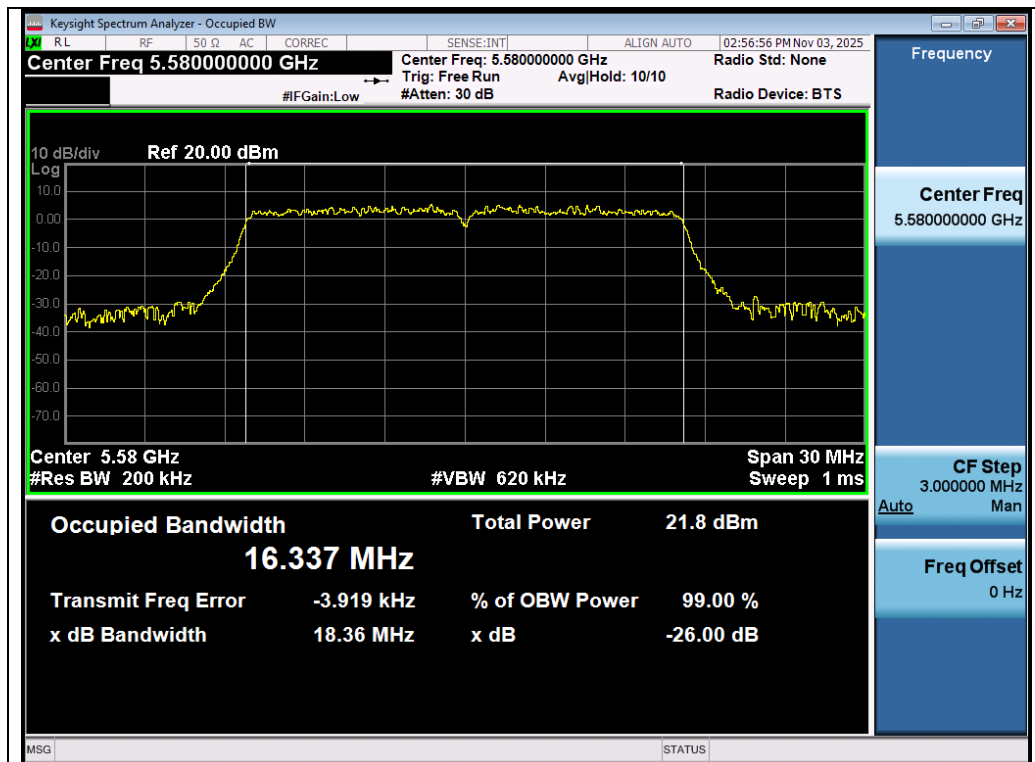
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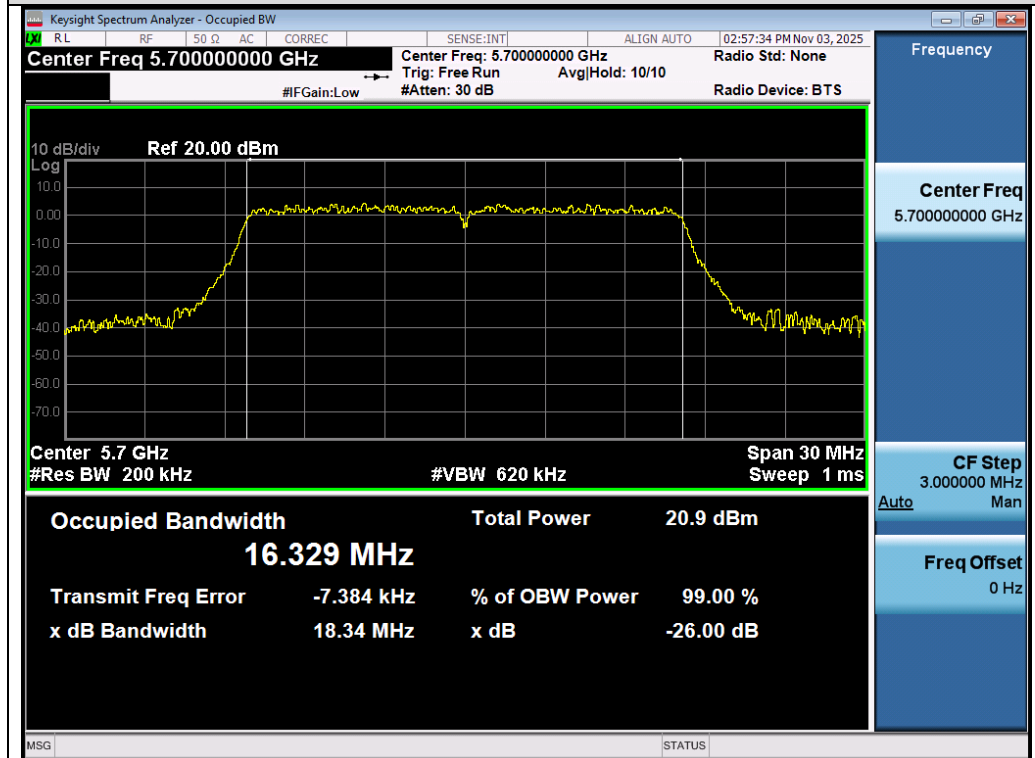
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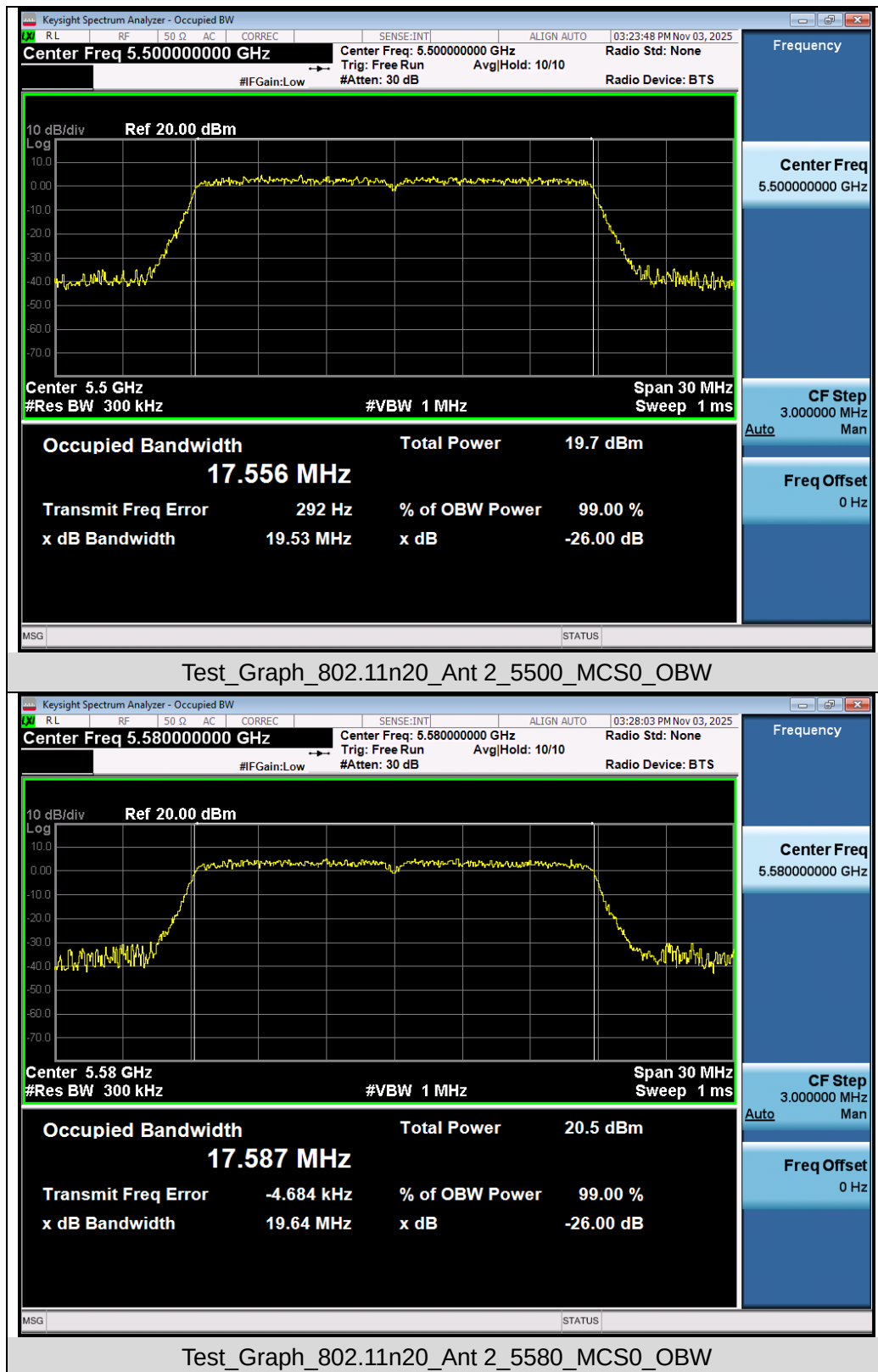


Test_Graph_802.11a_Ant 2_5580_6Mbps_OBW

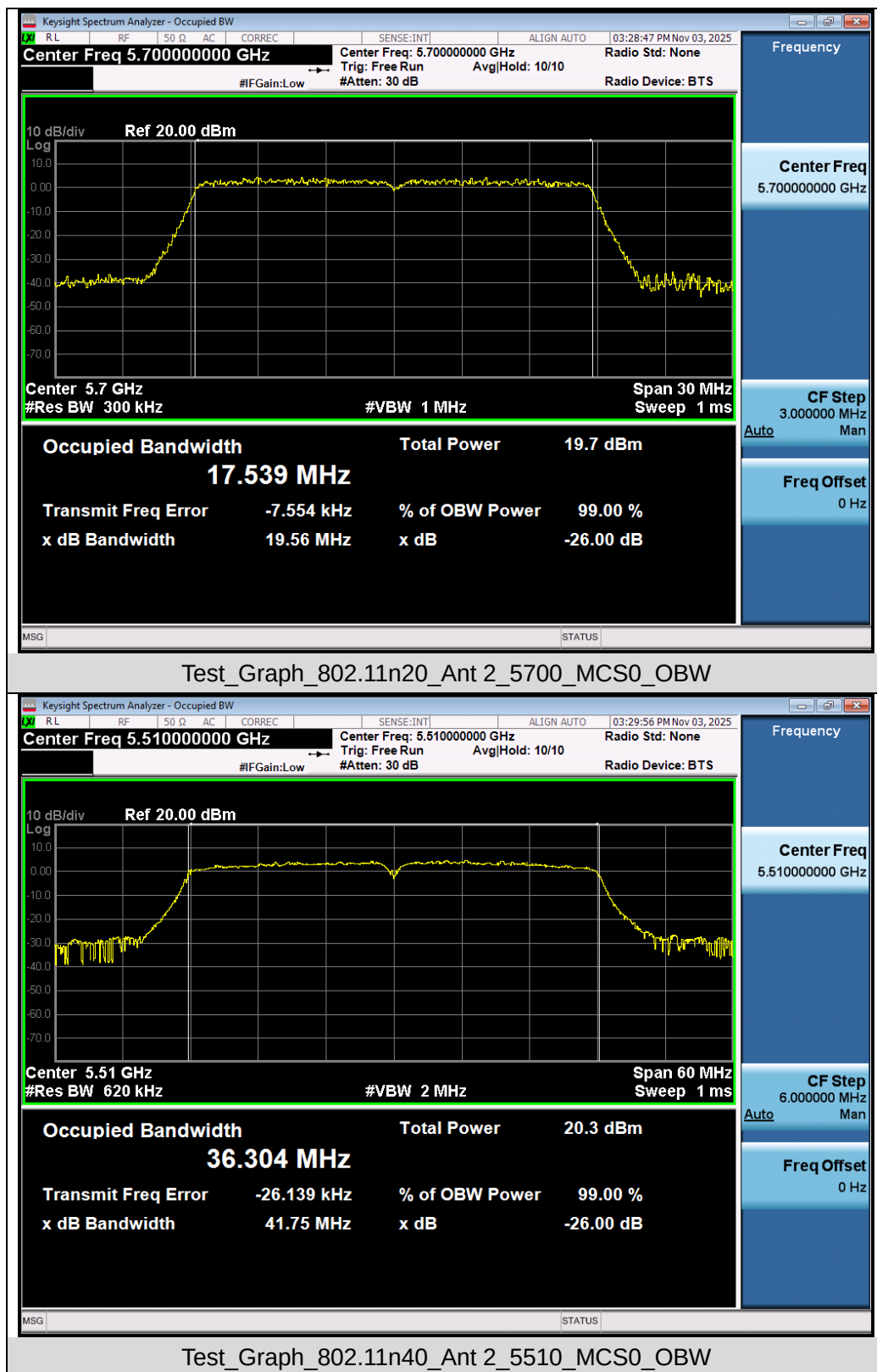


Test_Graph_802.11a_Ant 2_5700_6Mbps_OBW

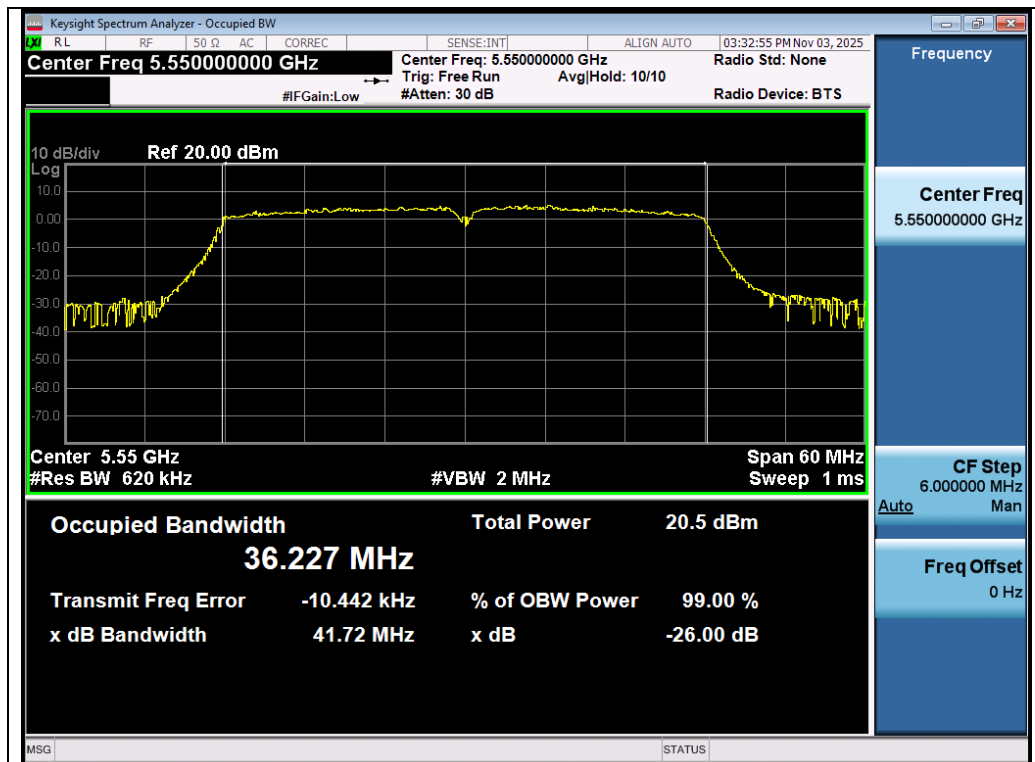
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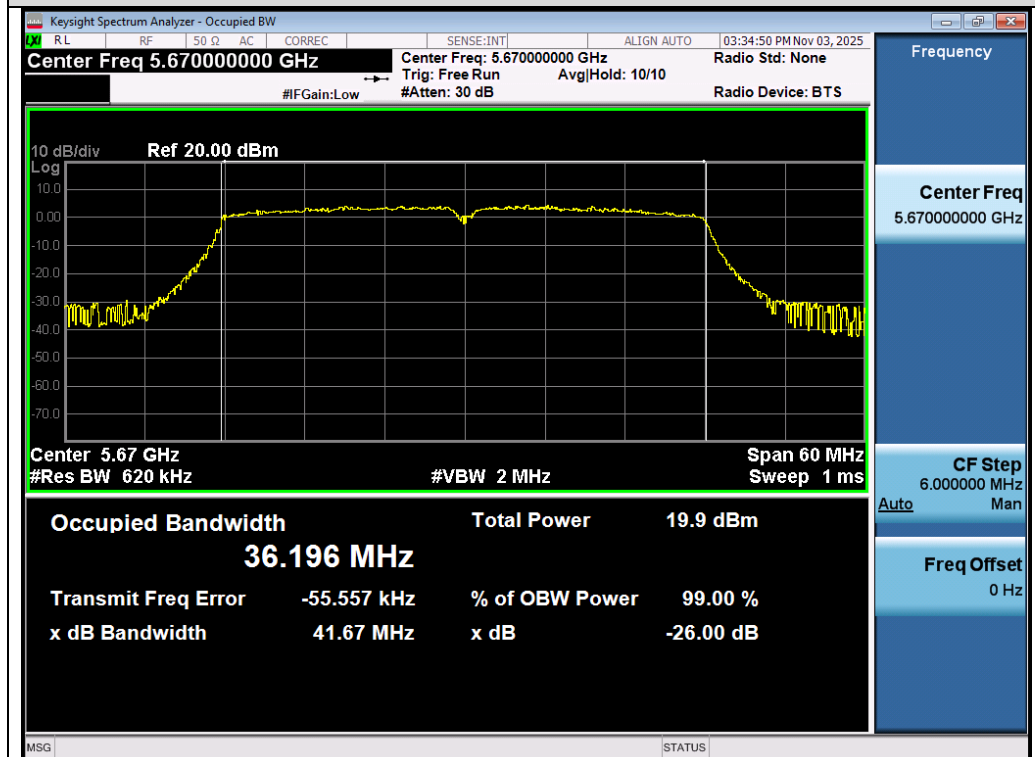
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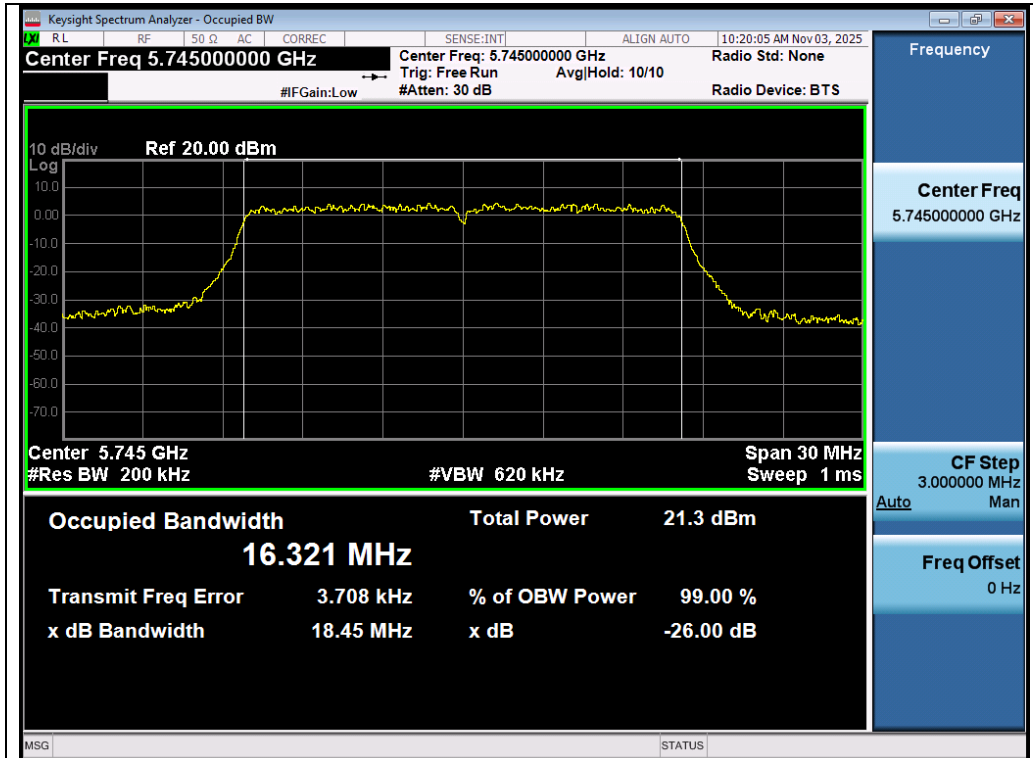
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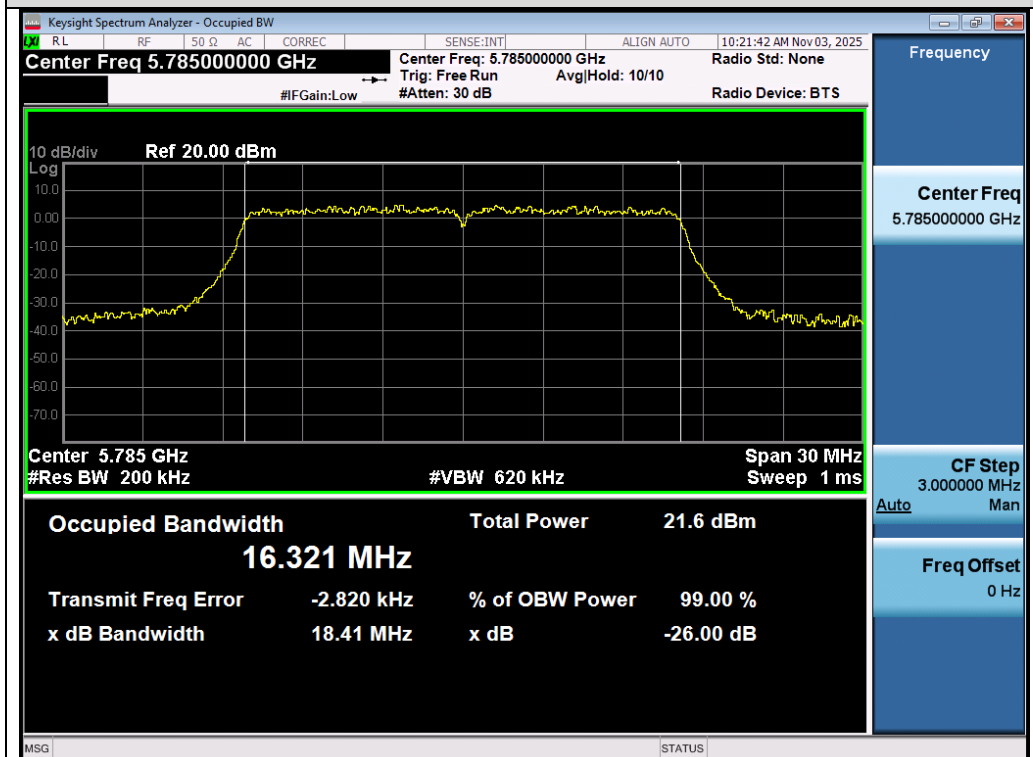
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz

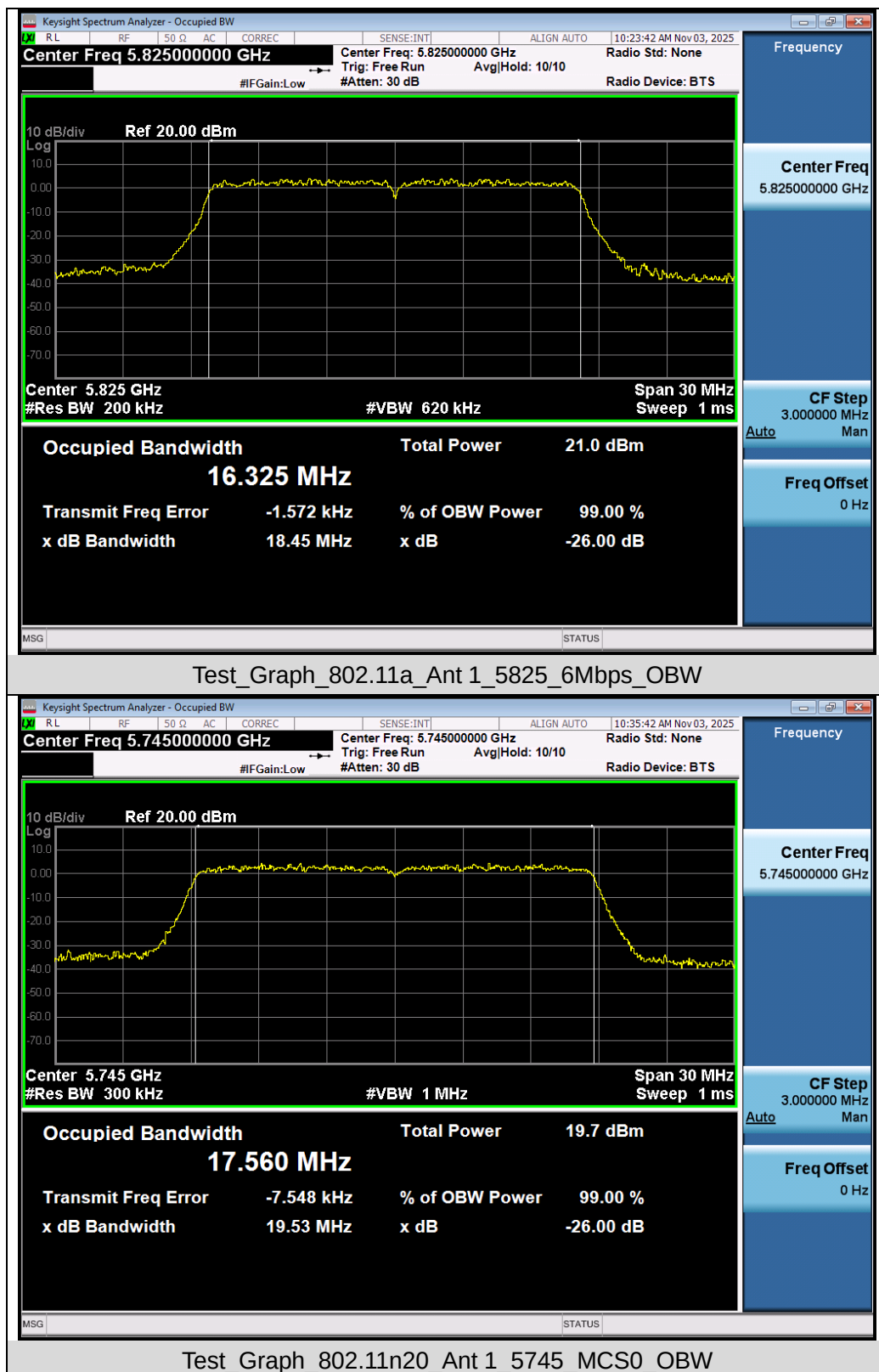


Test_Graph_802.11a_Ant 1_5745_6Mbps_OBW



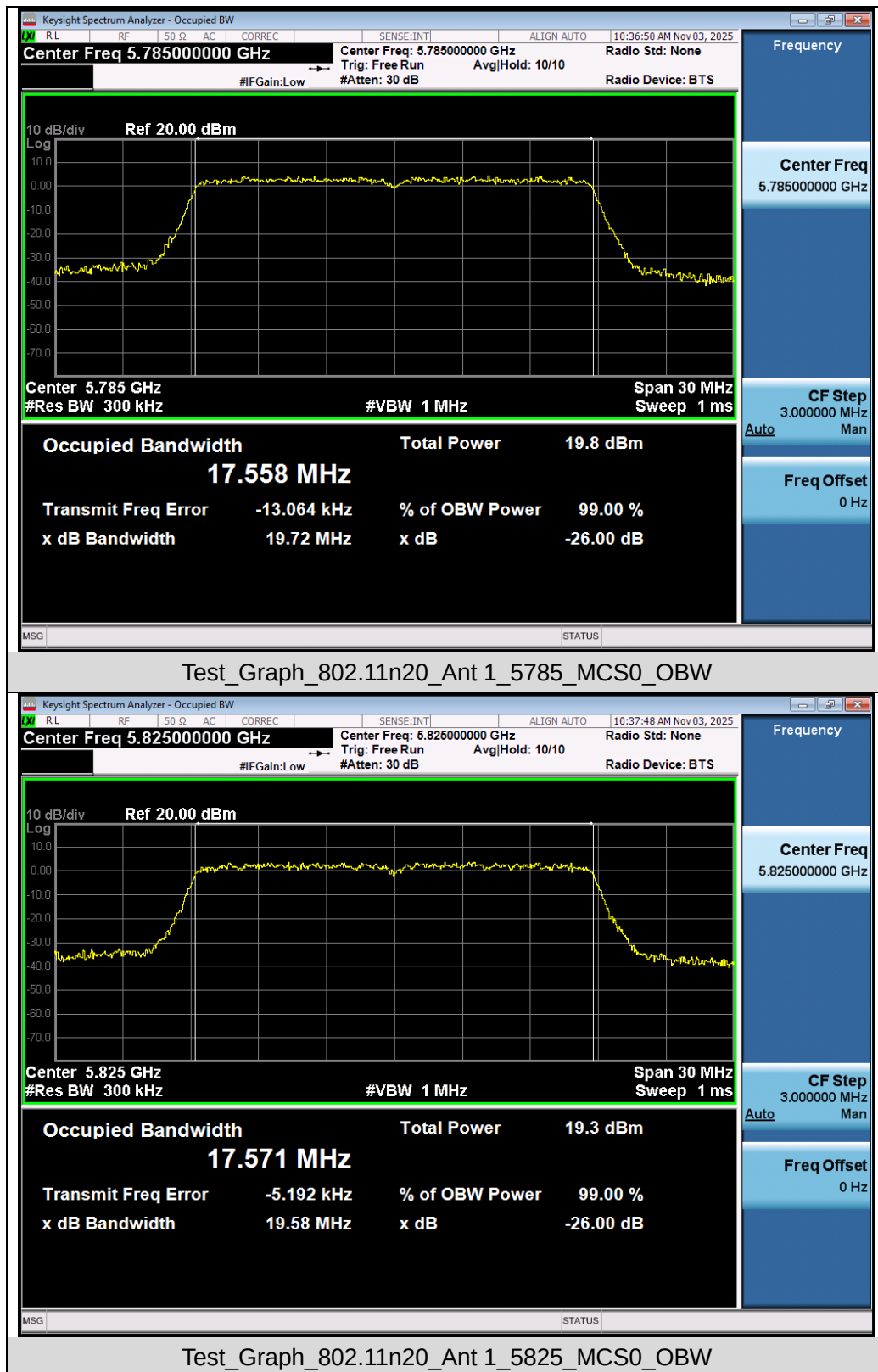
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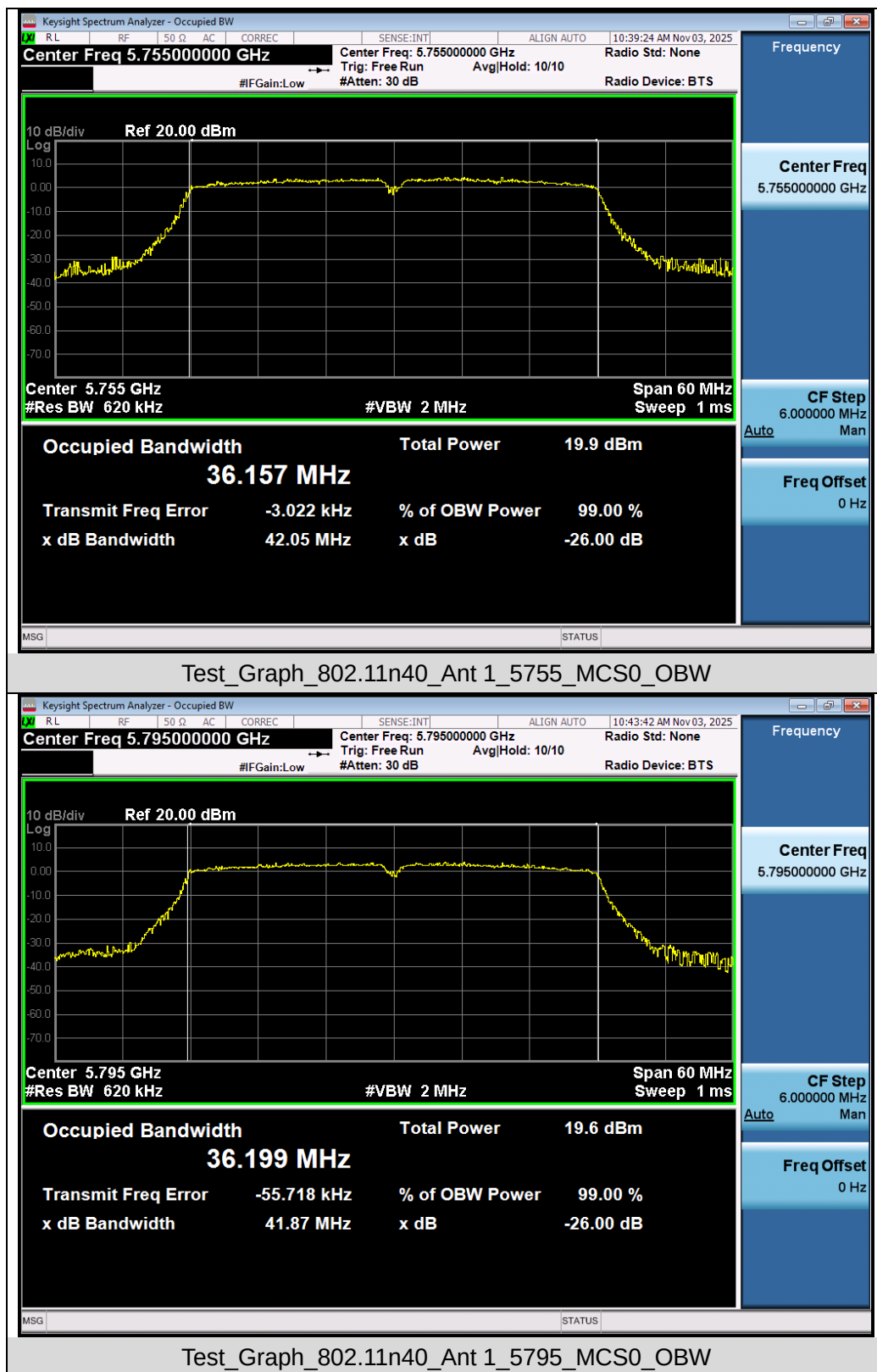


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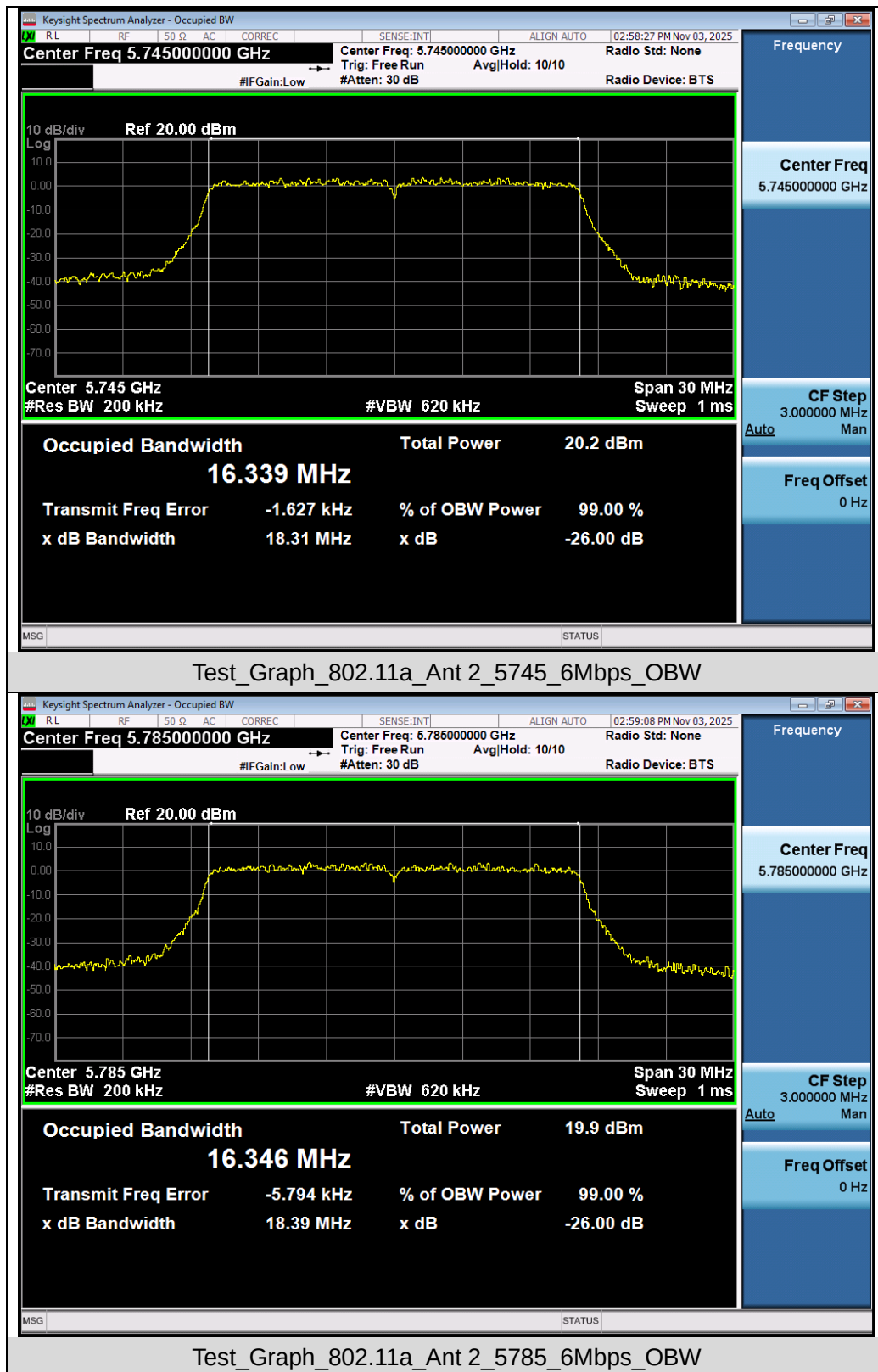
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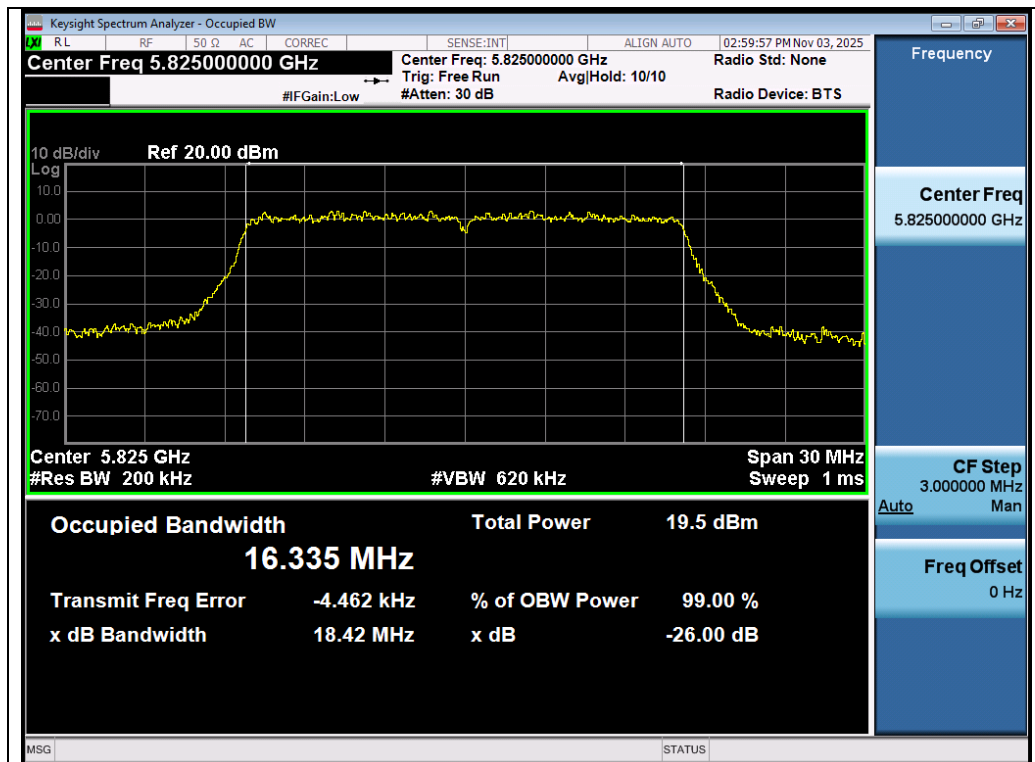


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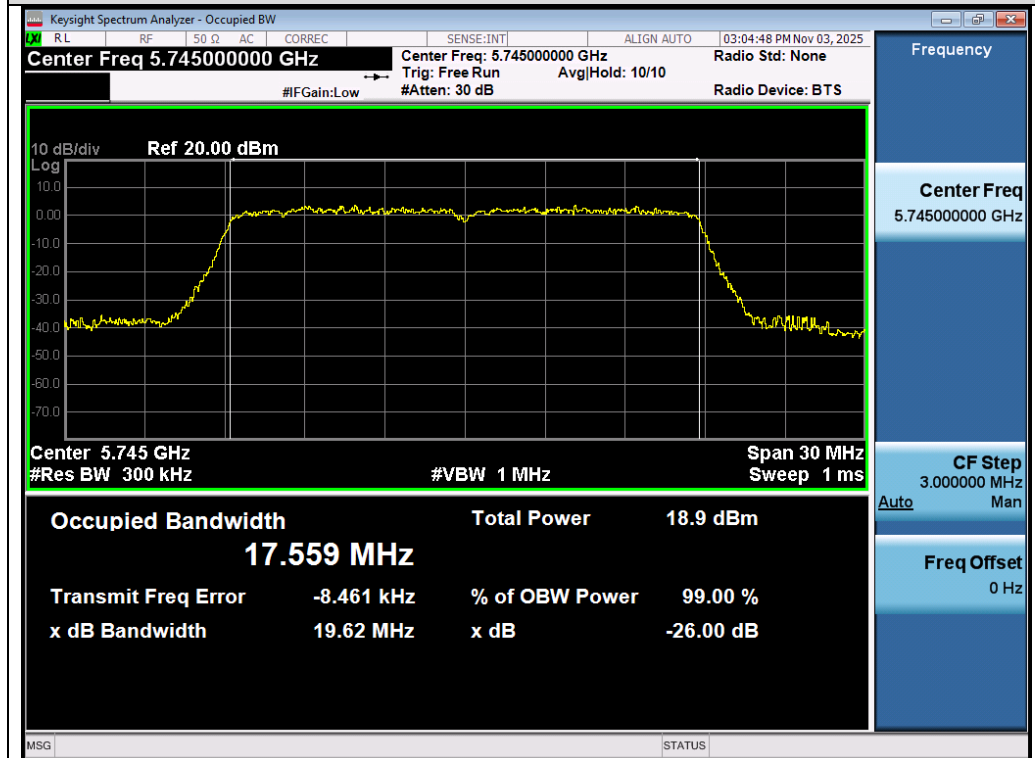


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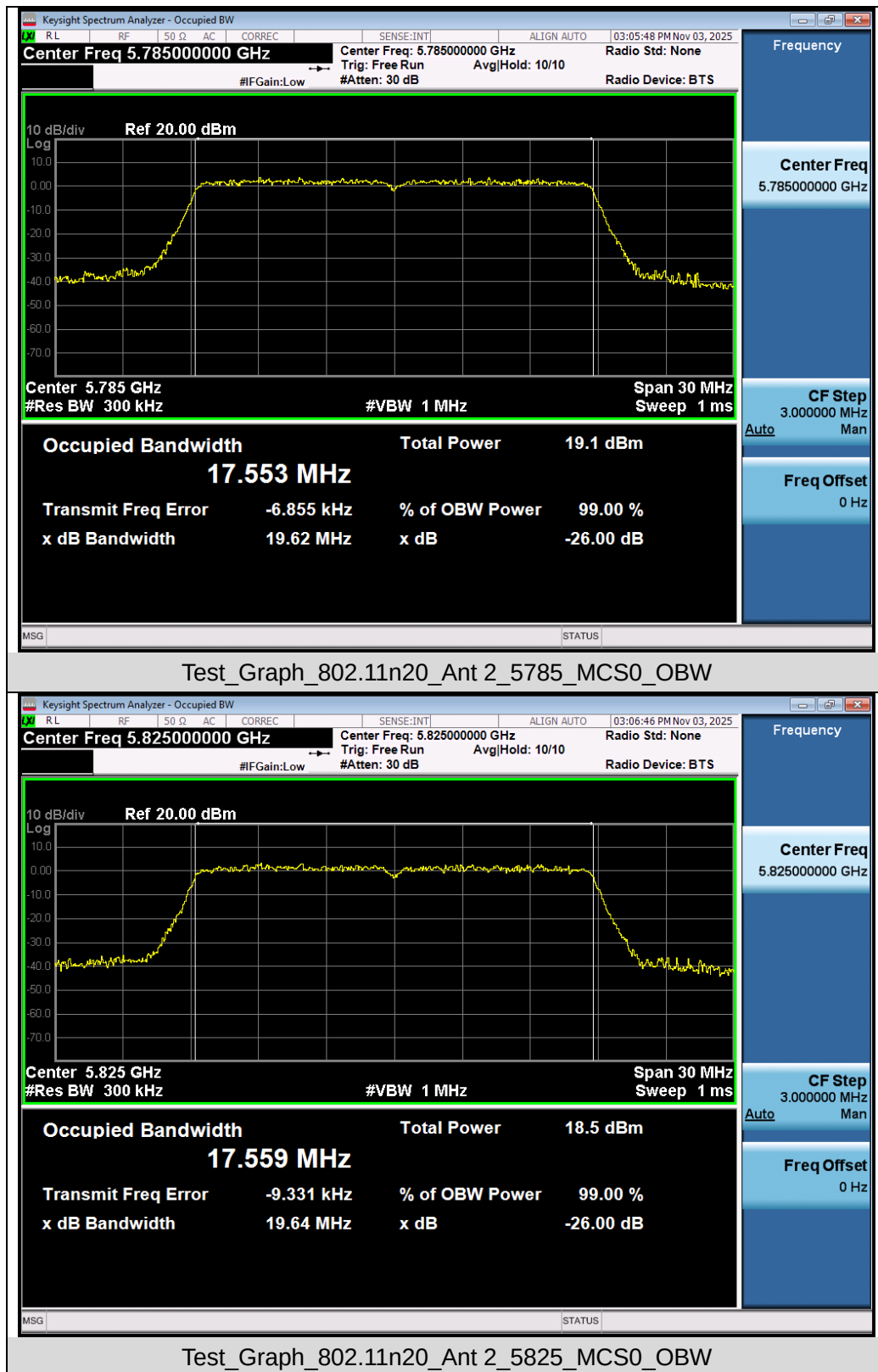


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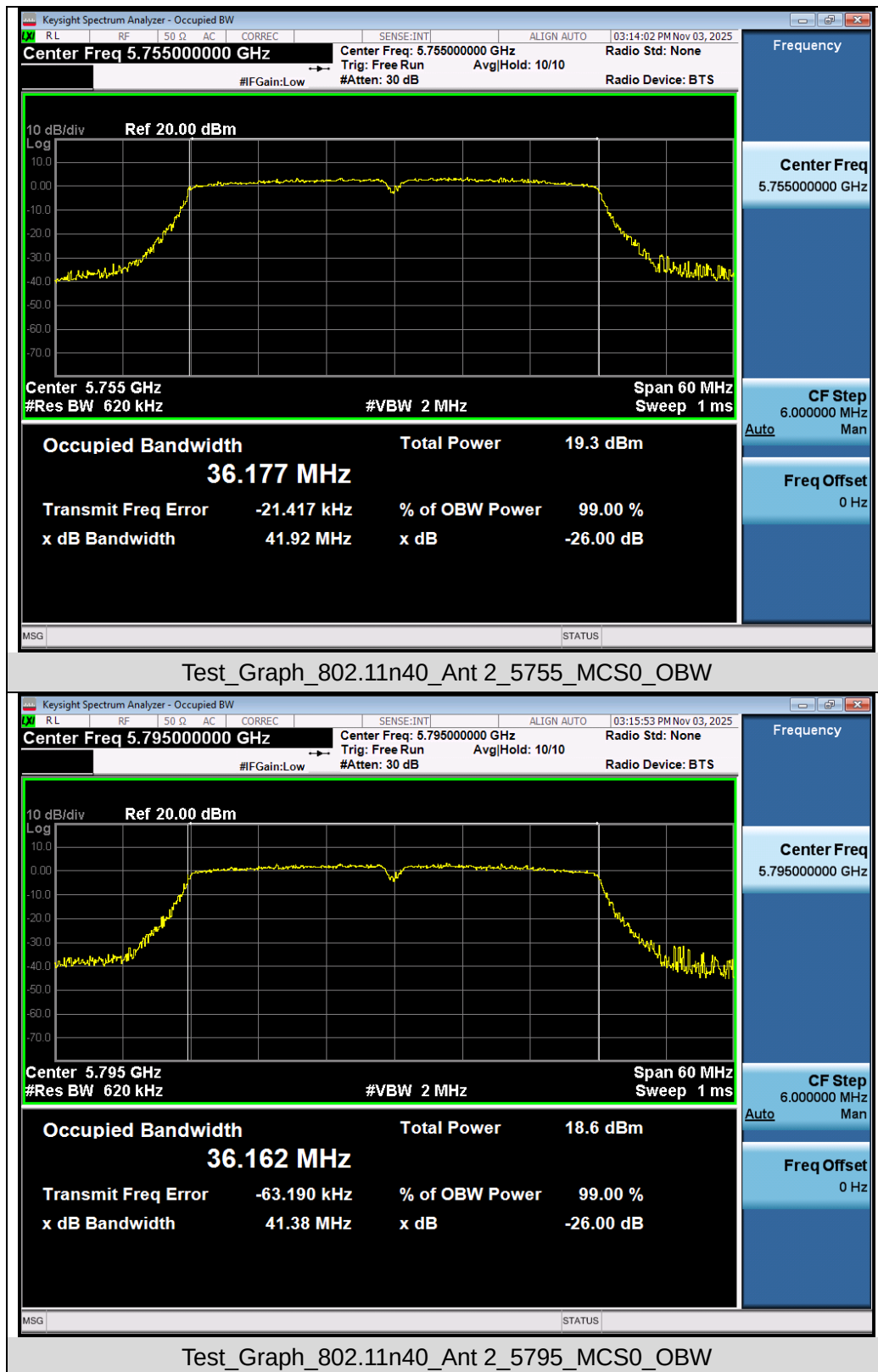
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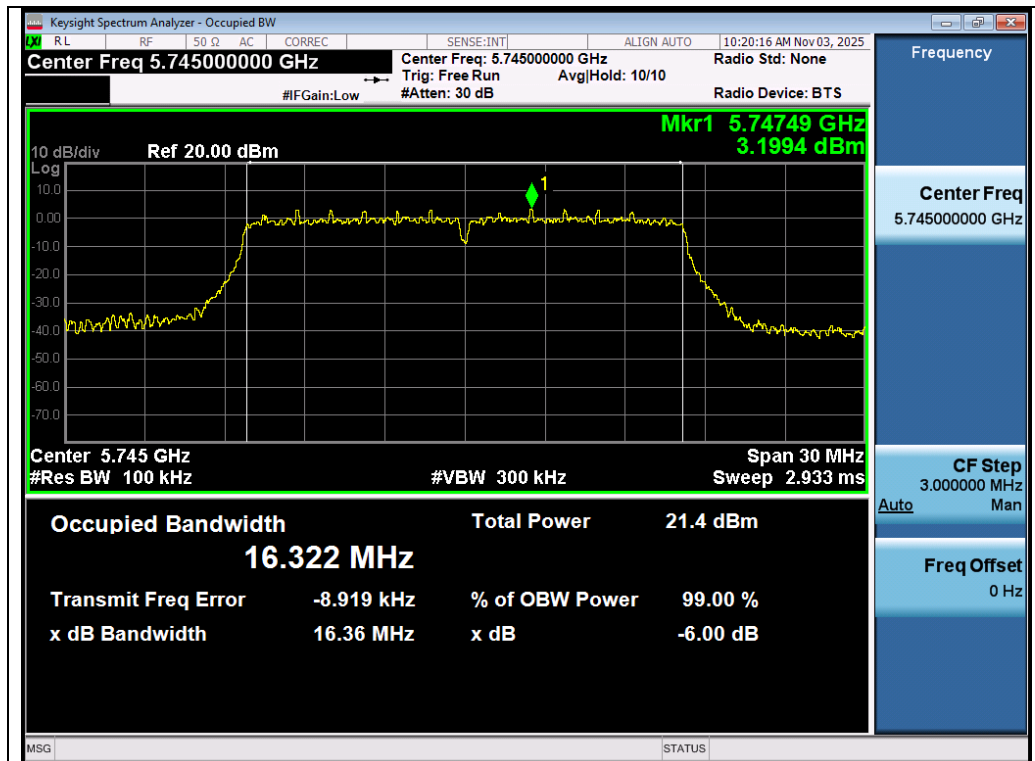
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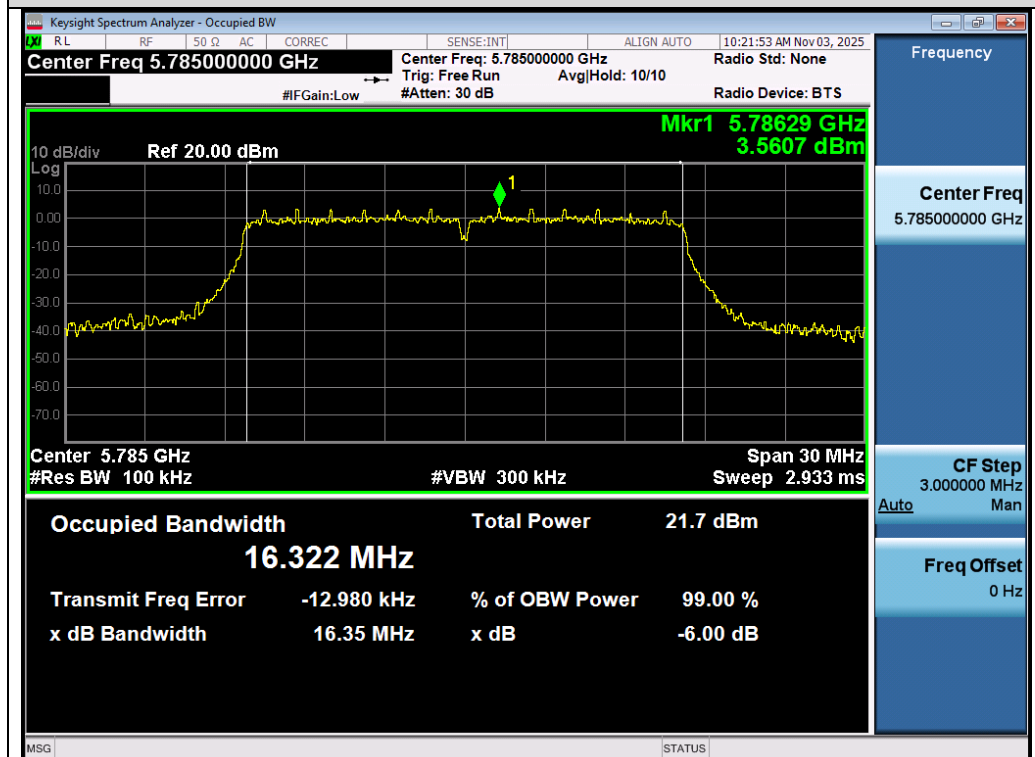


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

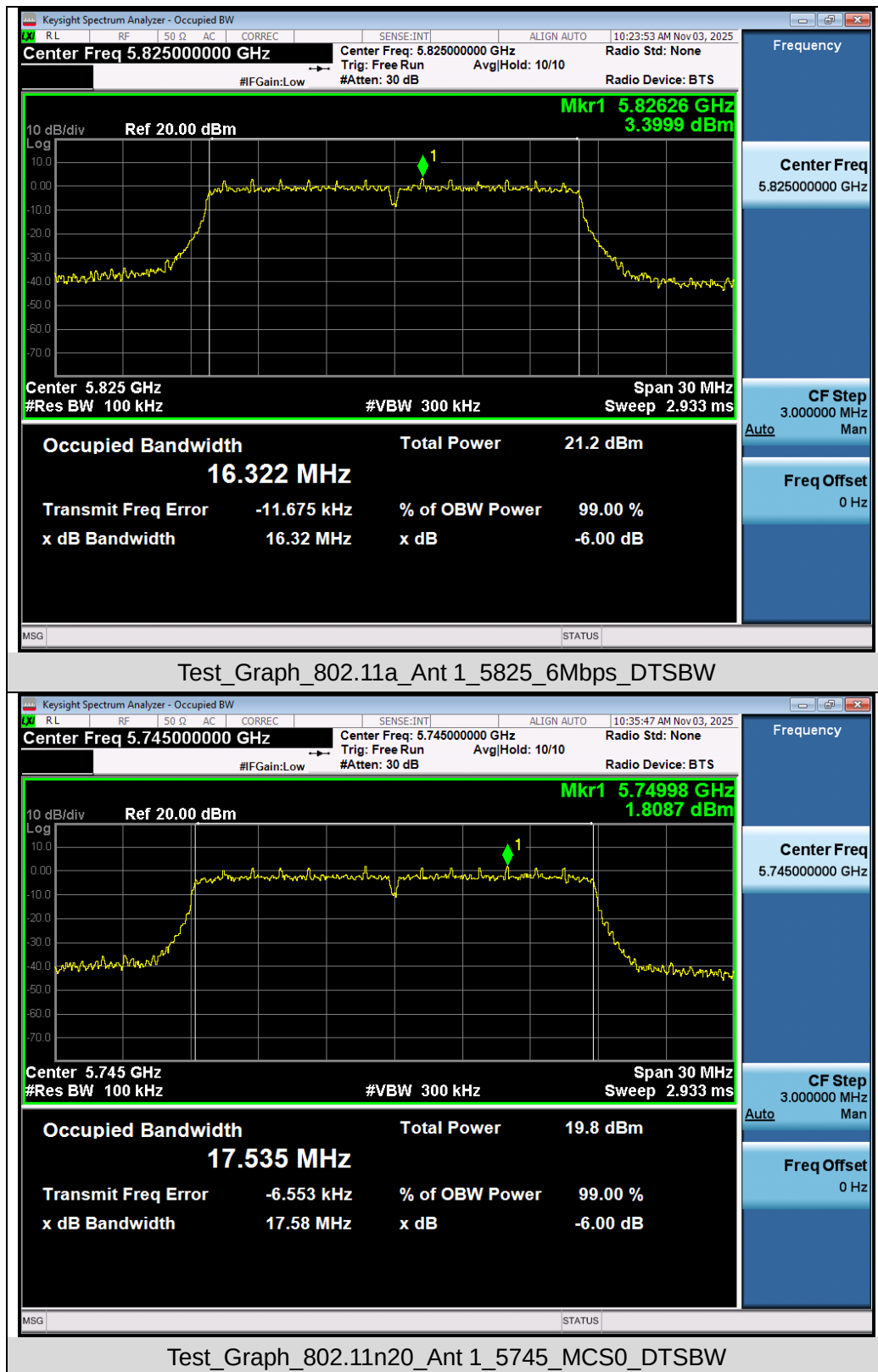


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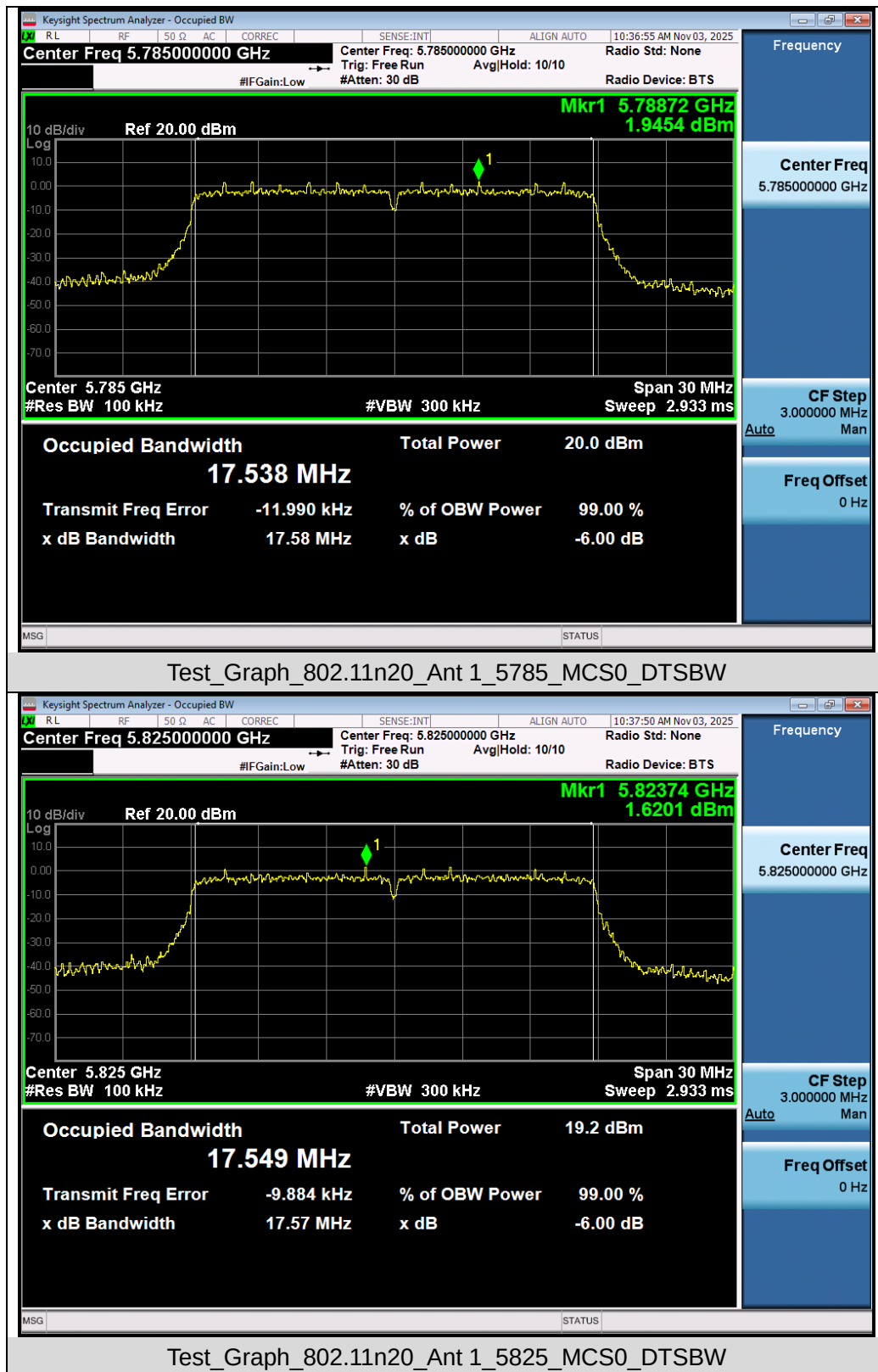


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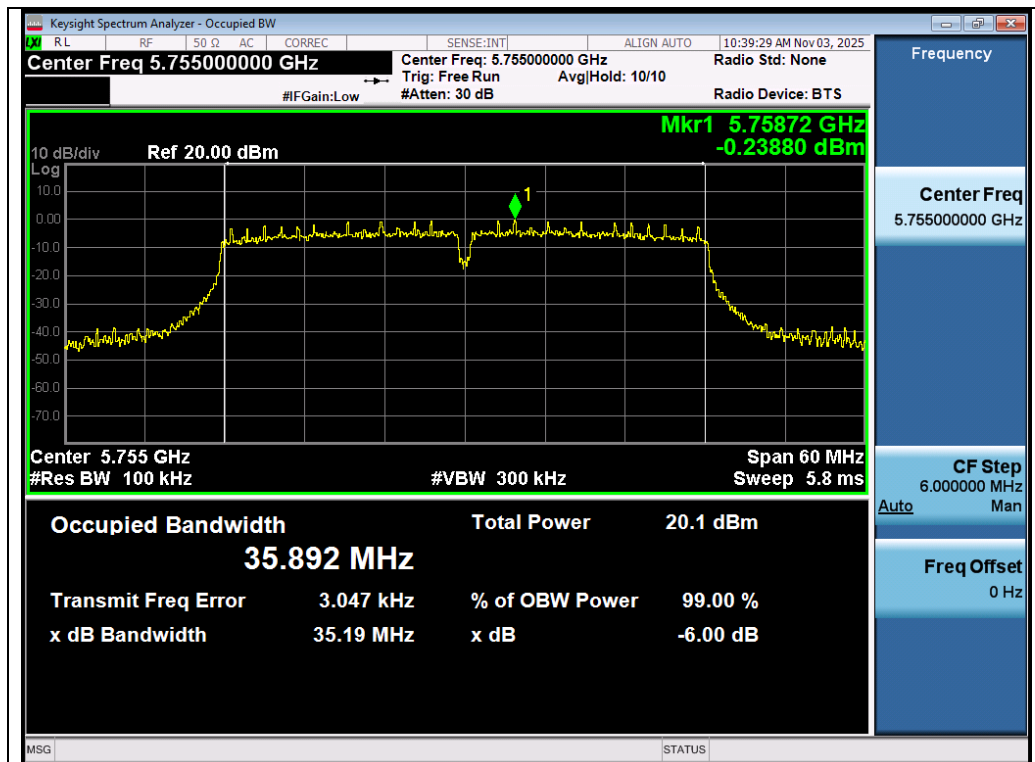
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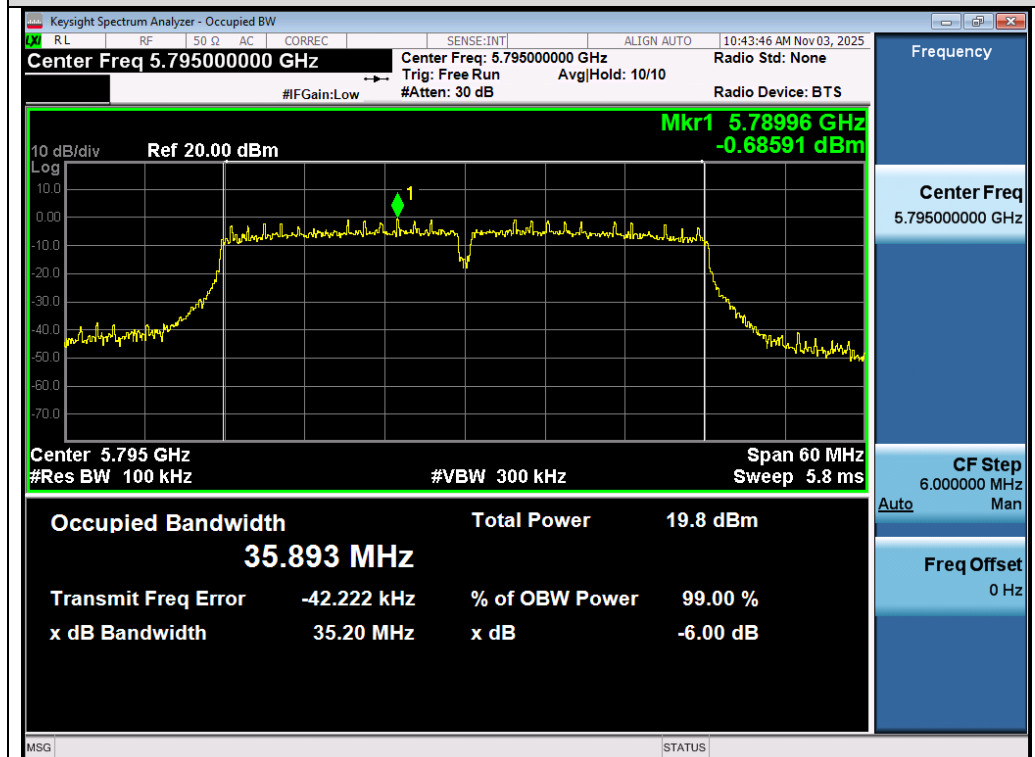
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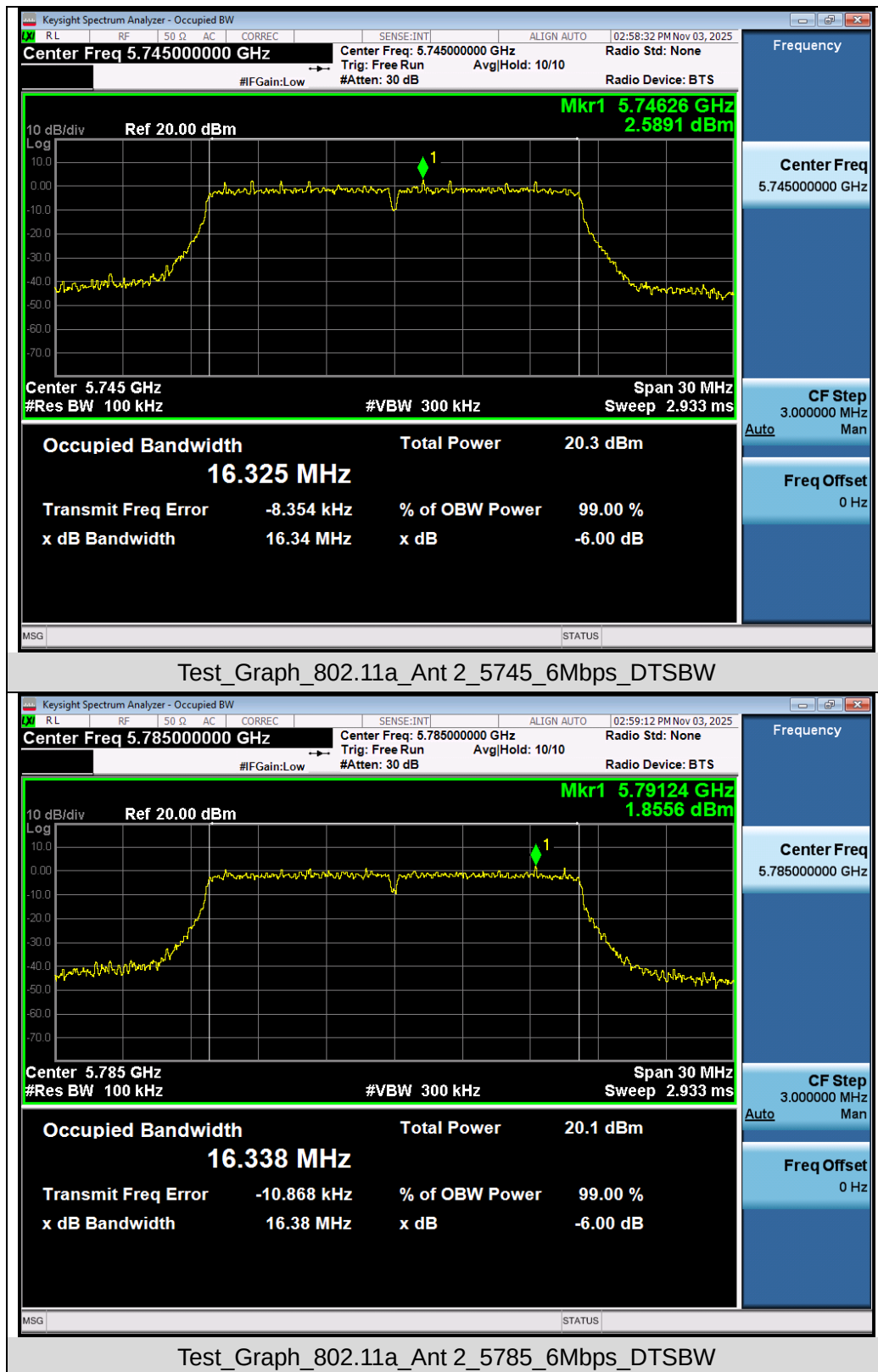


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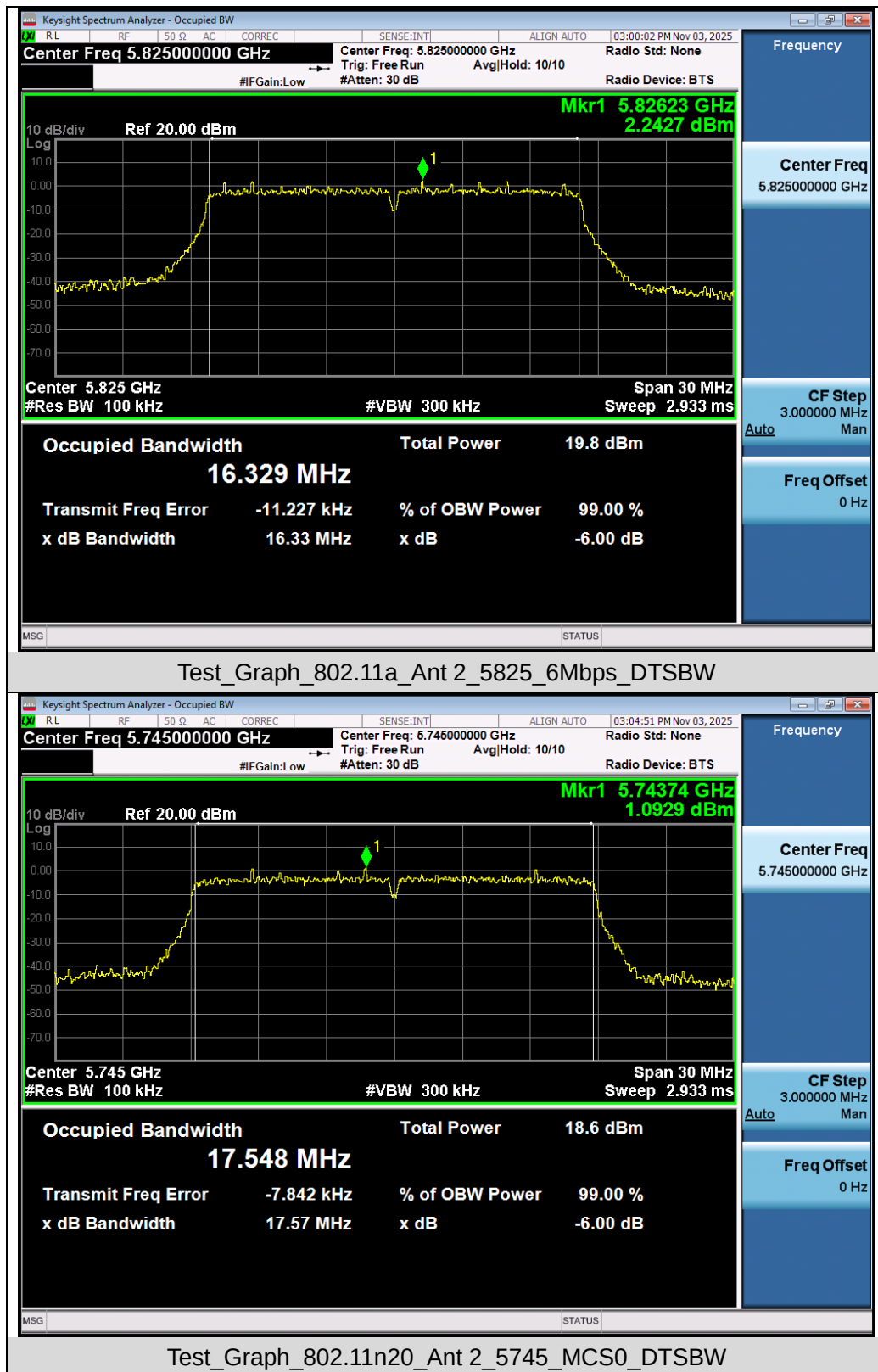
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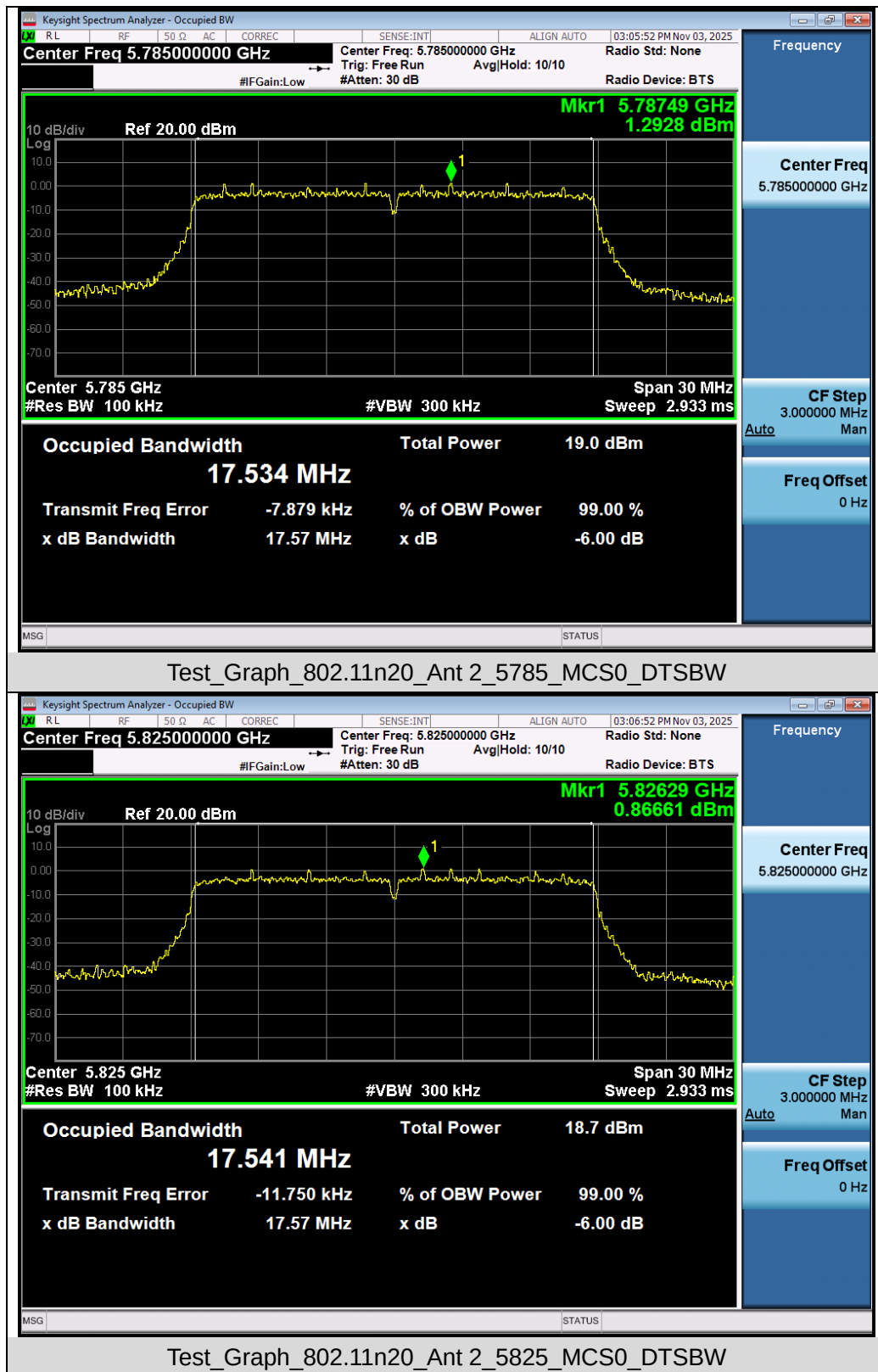
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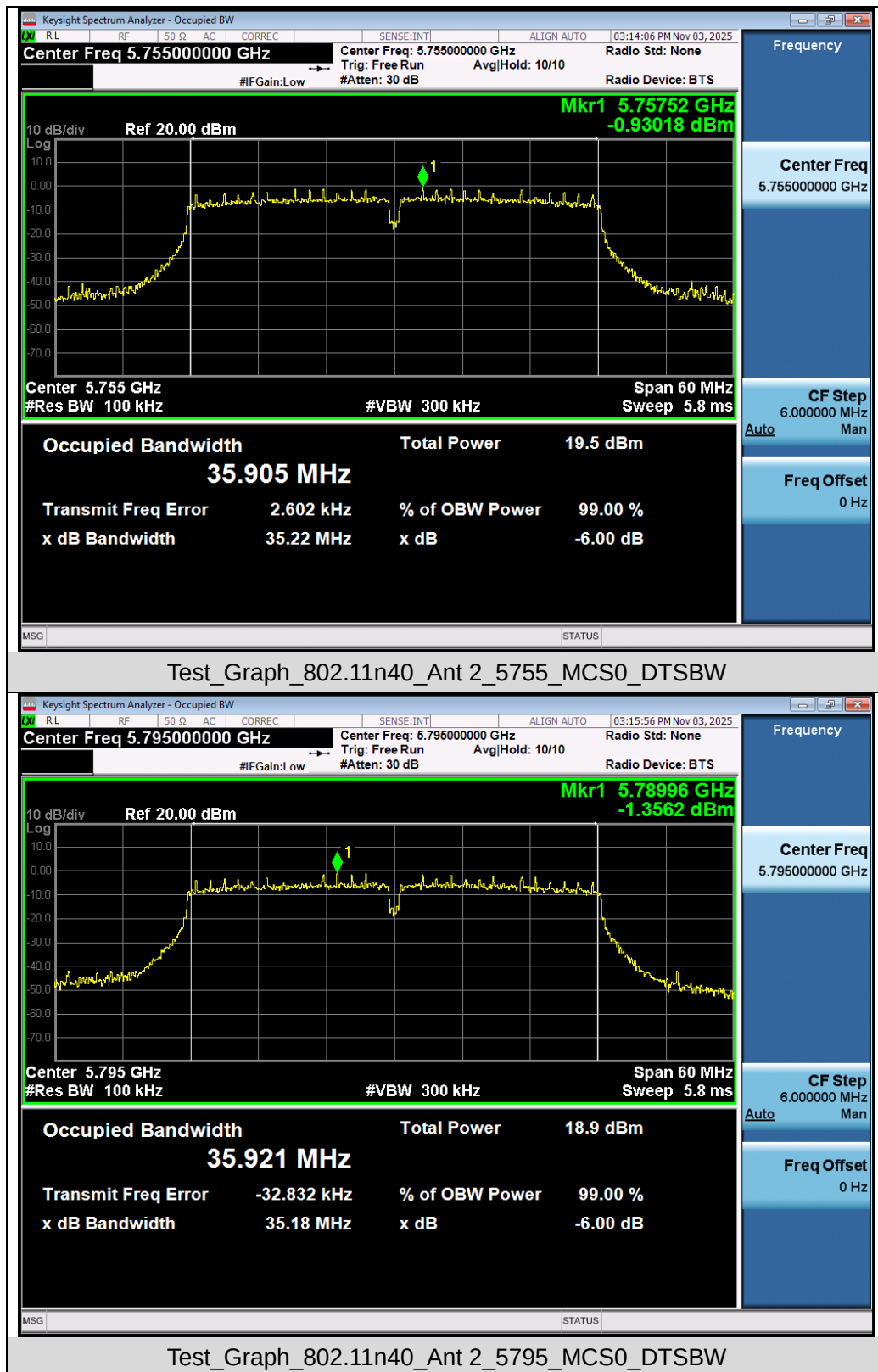


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9. Power Spectral Density Measurement

9.1 Provisions Applicable

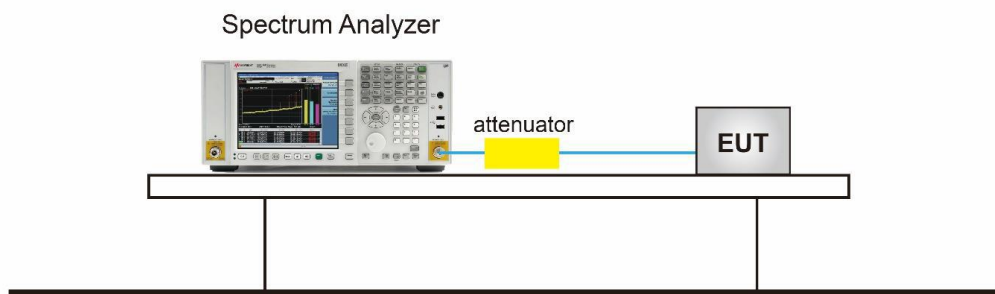
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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-Ant 1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	2.749	11	Pass
	5200	3.196	11	Pass
	5240	3.628	11	Pass
802.11n20	5180	1.205	11	Pass
	5200	1.326	11	Pass
	5240	1.823	11	Pass
802.11n40	5190	-1.315	11	Pass
	5230	-1.125	11	Pass

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	2.727	11	Pass
	5200	2.846	11	Pass
	5240	3.305	11	Pass
802.11n20	5180	0.893	11	Pass
	5200	0.987	11	Pass
	5240	1.656	11	Pass
802.11n40	5190	-1.928	11	Pass
	5230	-1.570	11	Pass

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	4.062	10.19	Pass
	5200	4.170	10.19	Pass
	5240	4.751	10.19	Pass
802.11n40	5190	1.400	10.19	Pass
	5230	1.668	10.19	Pass

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Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-Ant 1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	3.143	11	Pass
	5300	3.180	11	Pass
	5320	2.994	11	Pass
802.11n20	5260	1.610	11	Pass
	5300	1.633	11	Pass
	5320	1.586	11	Pass
802.11n40	5270	-1.393	11	Pass
	5310	-1.280	11	Pass

Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-Ant 2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	2.684	11	Pass
	5300	2.913	11	Pass
	5320	2.915	11	Pass
802.11n20	5260	1.175	11	Pass
	5300	1.753	11	Pass
	5320	1.393	11	Pass
802.11n40	5270	-1.573	11	Pass
	5310	-1.423	11	Pass

Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11n20	5260	4.408	10.19	Pass
	5300	4.704	10.19	Pass
	5320	4.501	10.19	Pass
802.11n40	5270	1.528	10.19	Pass
	5310	1.659	10.19	Pass

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Test Data of Conducted Output Power Density for band 5.470-5.725 GHz-Ant 1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	3.067	11	Pass
	5580	3.978	11	Pass
	5700	2.930	11	Pass
802.11n20	5500	1.462	11	Pass
	5580	2.352	11	Pass
	5700	1.401	11	Pass
802.11n40	5510	-1.046	11	Pass
	5550	-0.640	11	Pass
	5670	-1.326	11	Pass

Test Data of Conducted Output Power Density for band 5.470-5.725 GHz-Ant 2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	3.954	11	Pass
	5580	4.534	11	Pass
	5700	3.232	11	Pass
802.11n20	5500	2.179	11	Pass
	5580	3.341	11	Pass
	5700	1.805	11	Pass
802.11n40	5510	-0.587	11	Pass
	5550	-0.150	11	Pass
	5670	-0.770	11	Pass

Test Data of Conducted Output Power Density for band 5.470-5.725 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11n20	5500	4.846	10.19	Pass
	5580	5.885	10.19	Pass
	5700	4.618	10.19	Pass
802.11n40	5510	2.200	10.19	Pass
	5550	2.622	10.19	Pass
	5670	1.971	10.19	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/510kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	0.532	0.446	30	Pass
	5785	0.664	0.578	30	Pass
	5825	0.132	0.046	30	Pass
802.11n20	5745	-1.255	-1.341	30	Pass
	5785	-1.08	-1.166	30	Pass
	5825	-1.405	-1.491	30	Pass
802.11n40	5755	-3.524	-3.610	30	Pass
	5795	-3.838	-3.924	30	Pass

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/510kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-0.148	-0.234	30	Pass
	5785	-0.139	-0.225	30	Pass
	5825	-0.782	-0.868	30	Pass
802.11n20	5745	-1.306	-1.392	30	Pass
	5785	-1.431	-1.517	30	Pass
	5825	-1.993	-2.079	30	Pass
802.11n40	5755	-4.268	-4.354	30	Pass
	5795	-4.734	-4.820	30	Pass

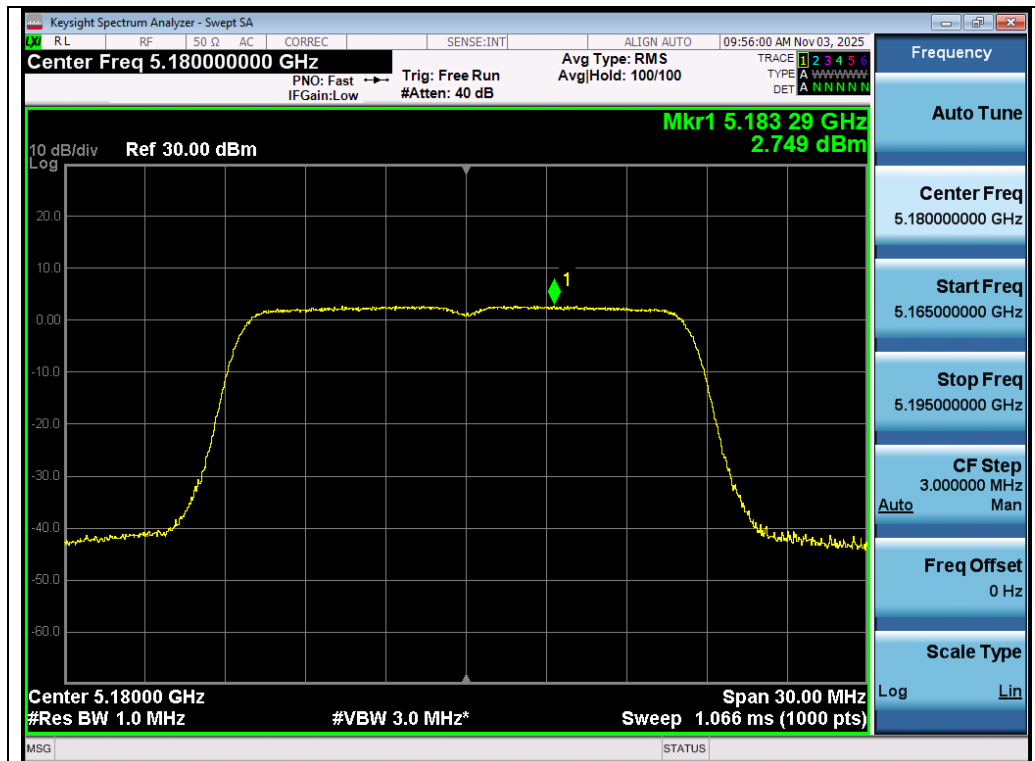
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-MIMO					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/510kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11n20	5745	1.730	1.644	29.19	Pass
	5785	1.758	1.672	29.19	Pass
	5825	1.321	1.235	29.19	Pass
802.11n40	5755	-0.870	-0.956	29.19	Pass
	5795	-1.253	-1.339	29.19	Pass

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

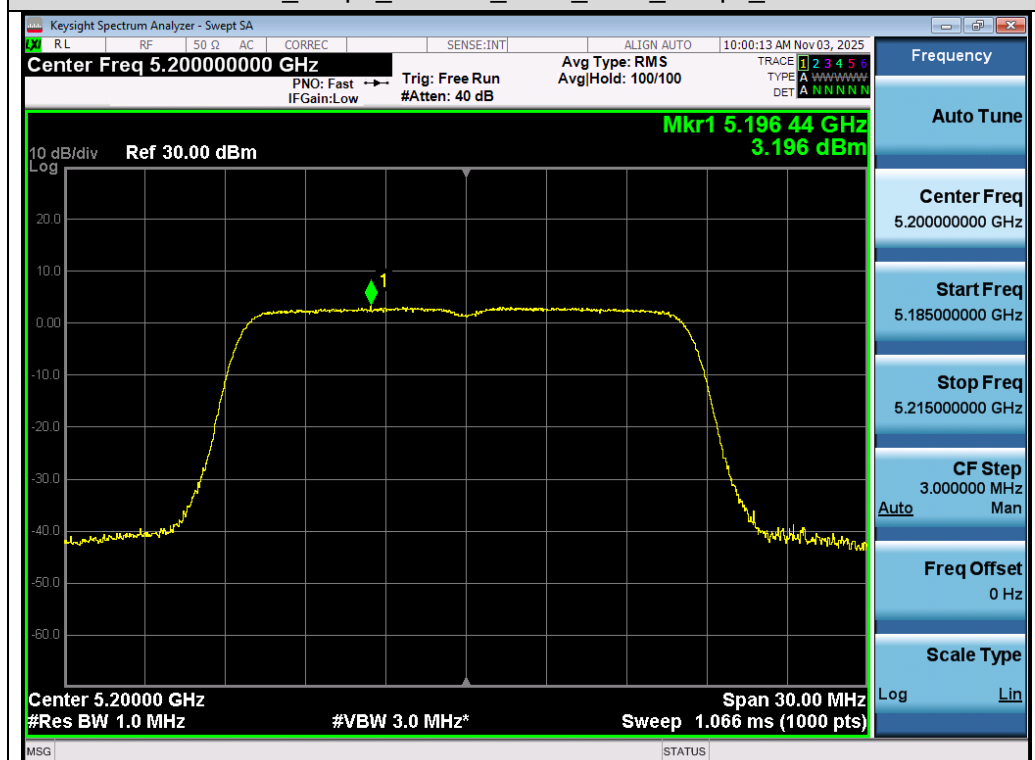
2.The Total PSD(dBm/500kHz) = 10*log {10^(Ant 1 PSD/10) + 10^(Ant 2 PSD/10)}(dBm/500kHz).

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

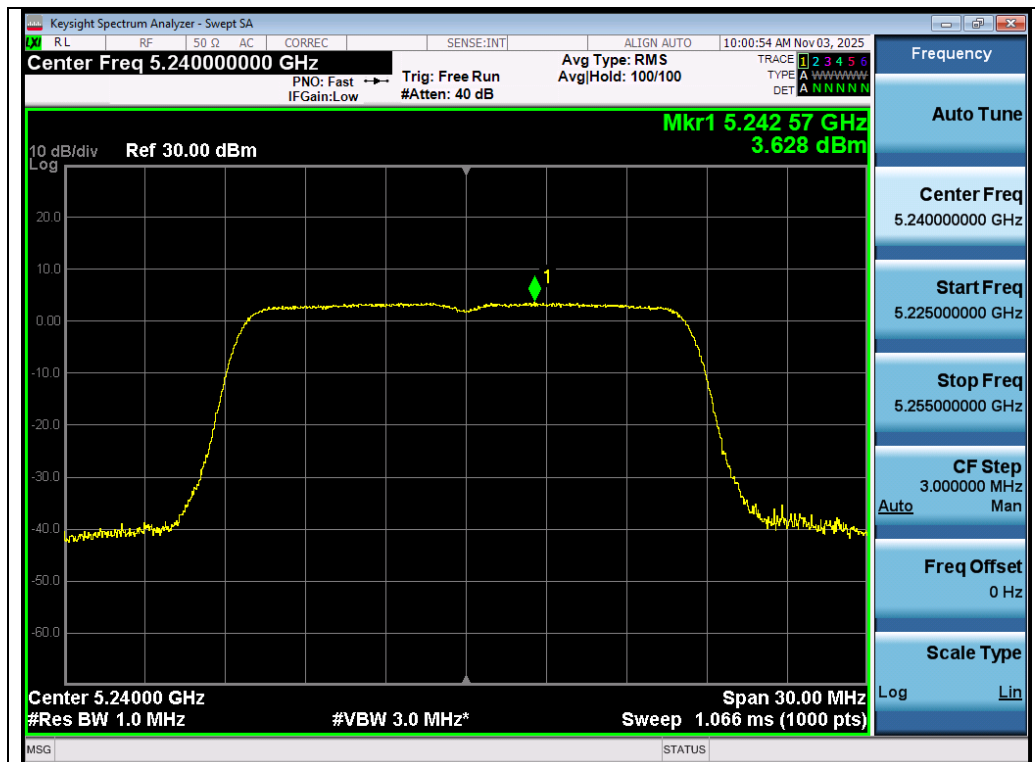


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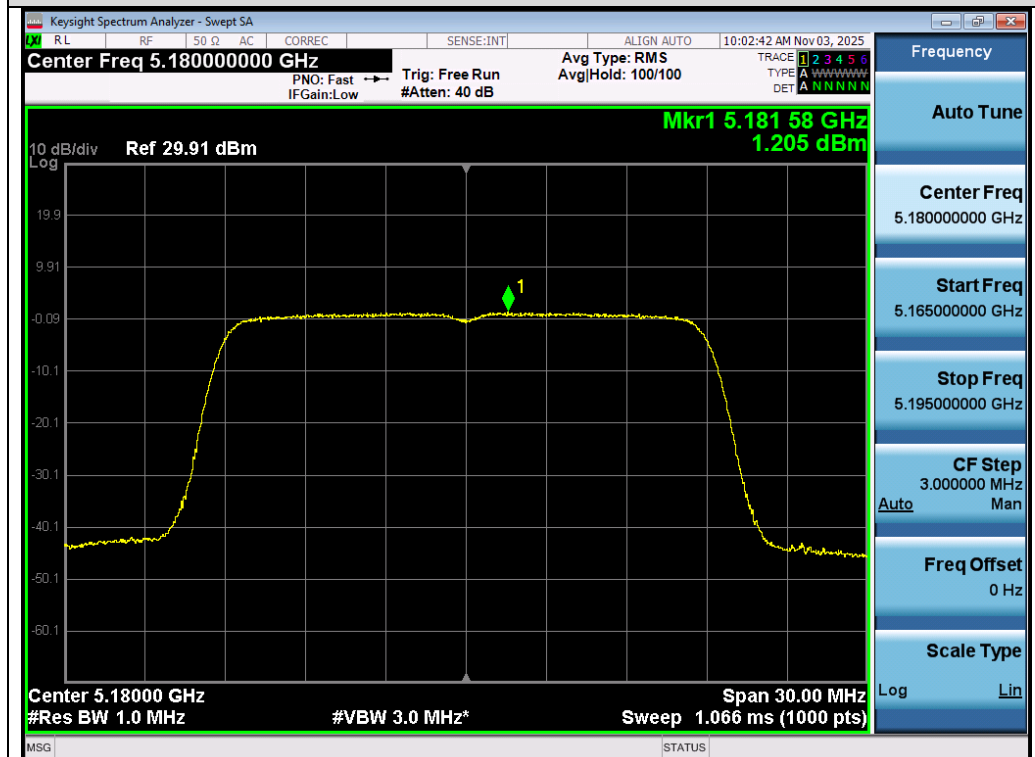


Test_Graph_802.11a_Ant 1_5200_6Mbps_PSD

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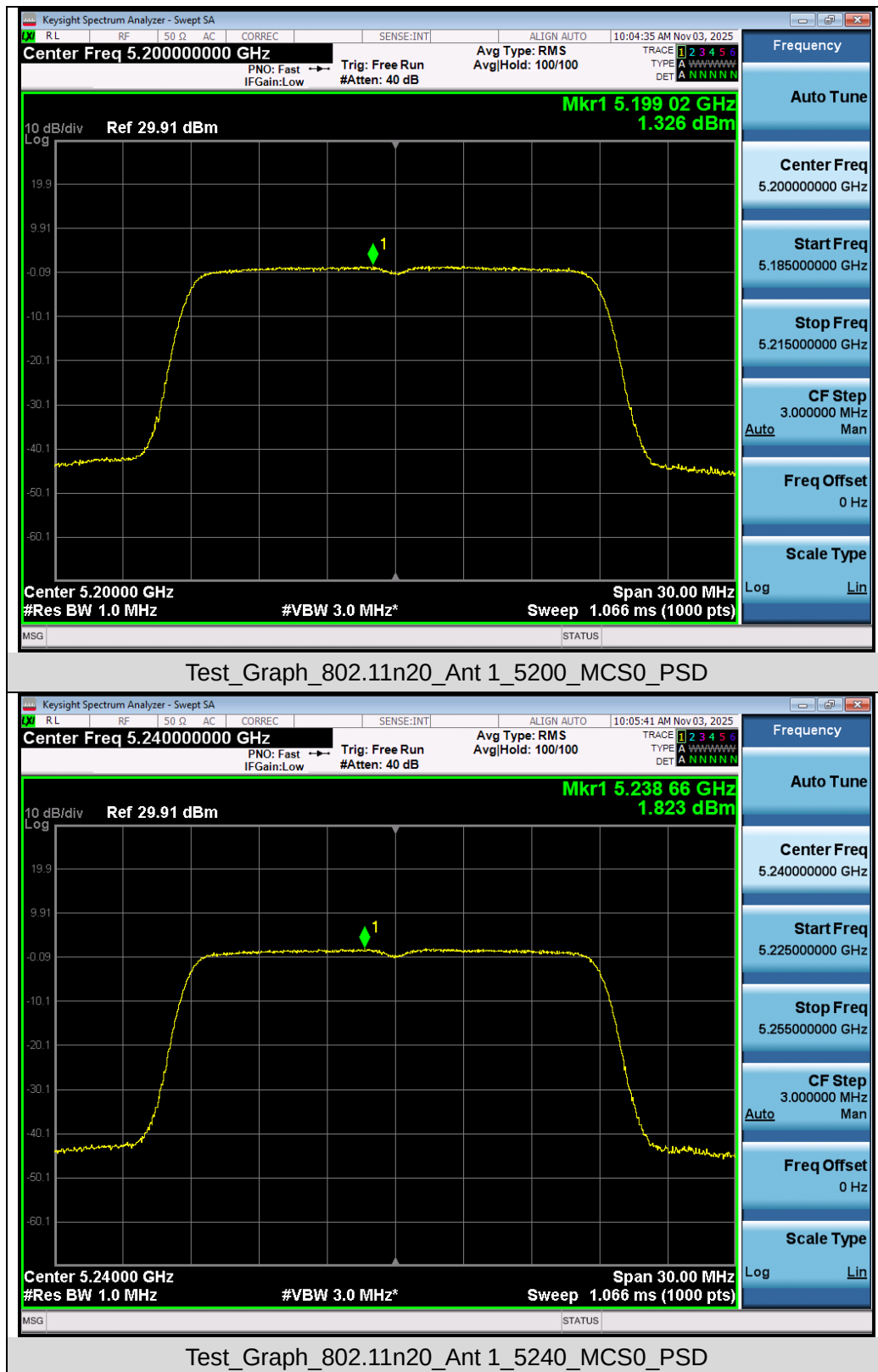
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Test_Graph_802.11n20_Ant 1_5180_MCS0_PSD

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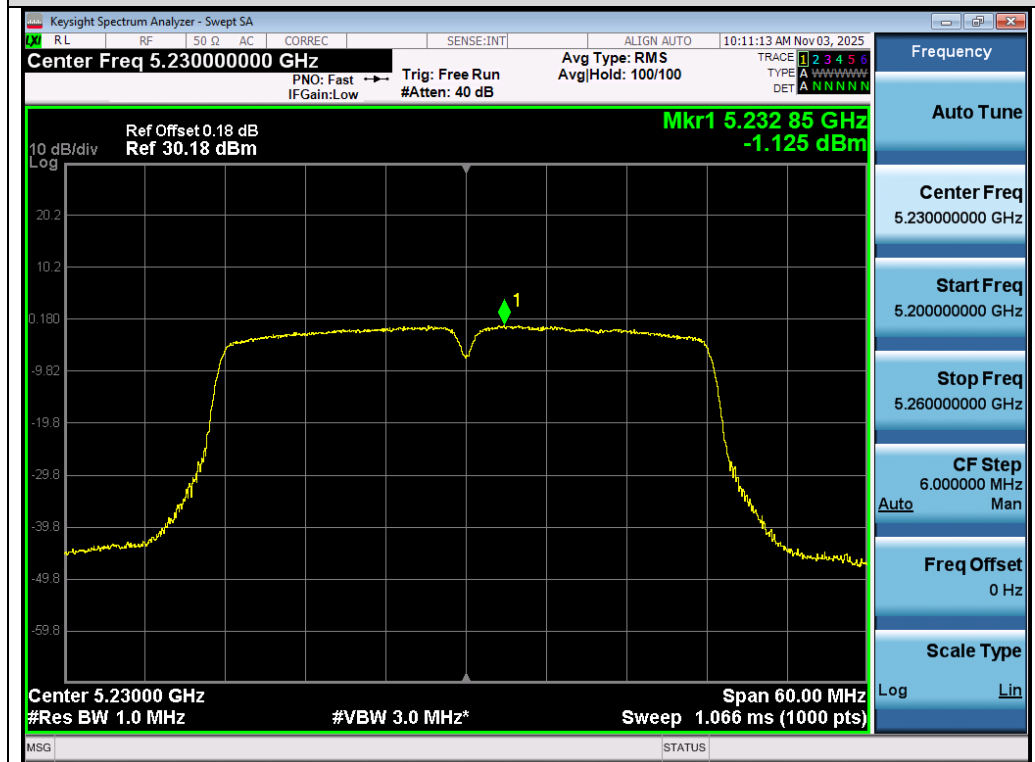


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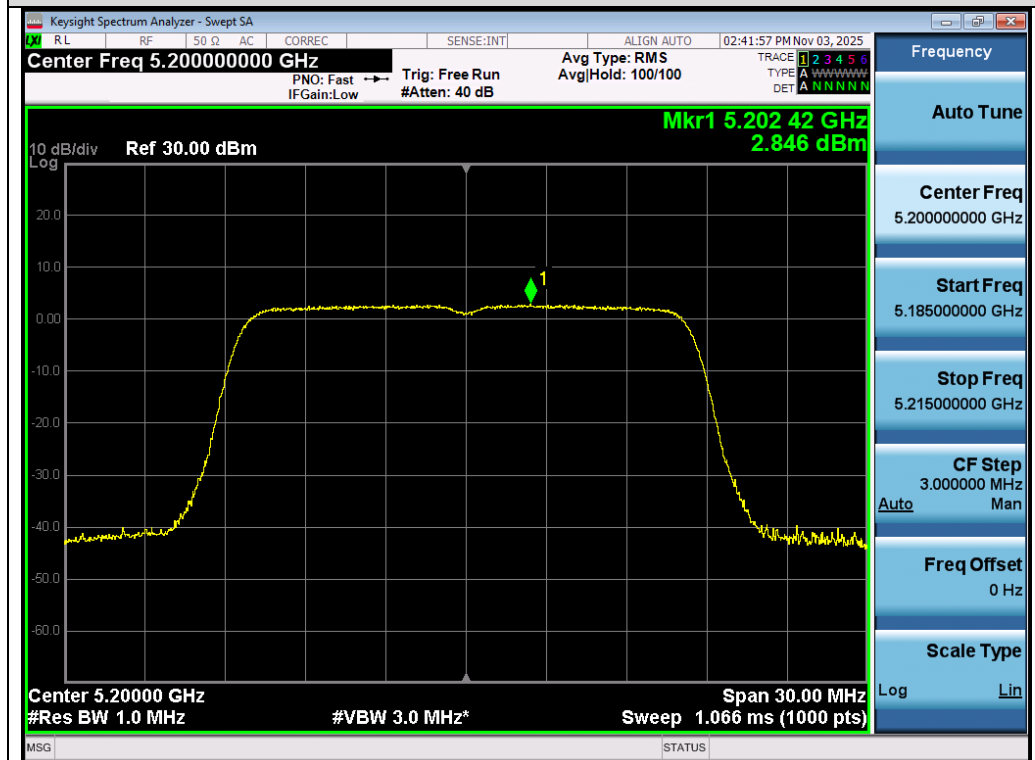
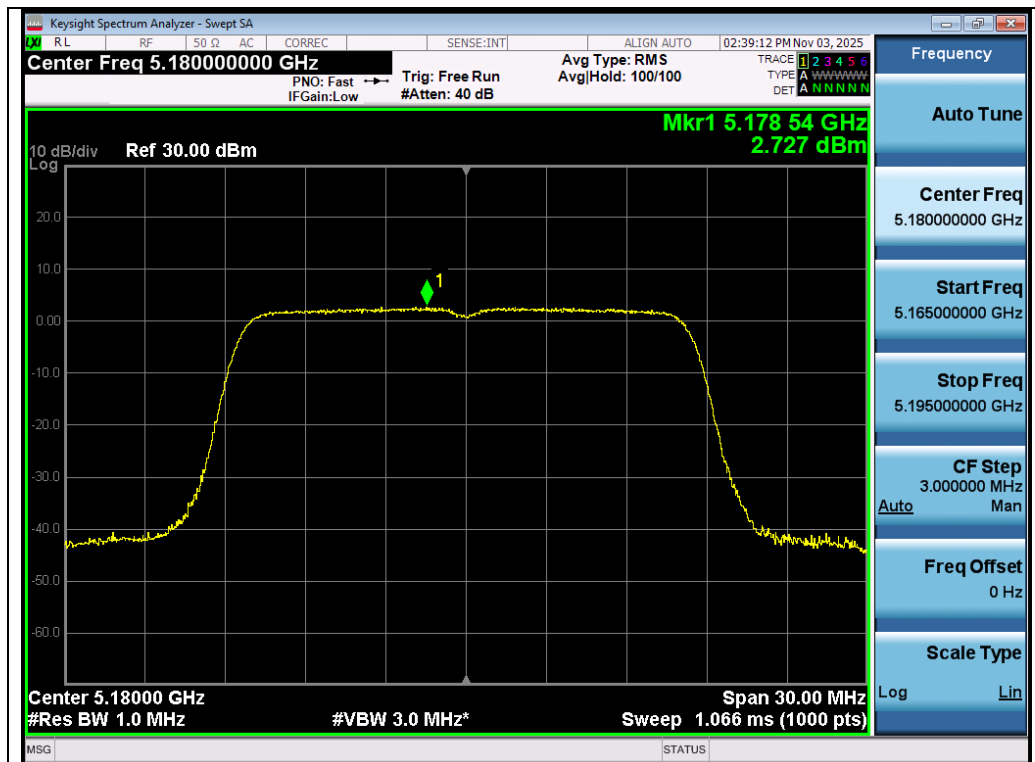


Test_Graph_802.11n40_Ant 1_5190_MCS0_PSD



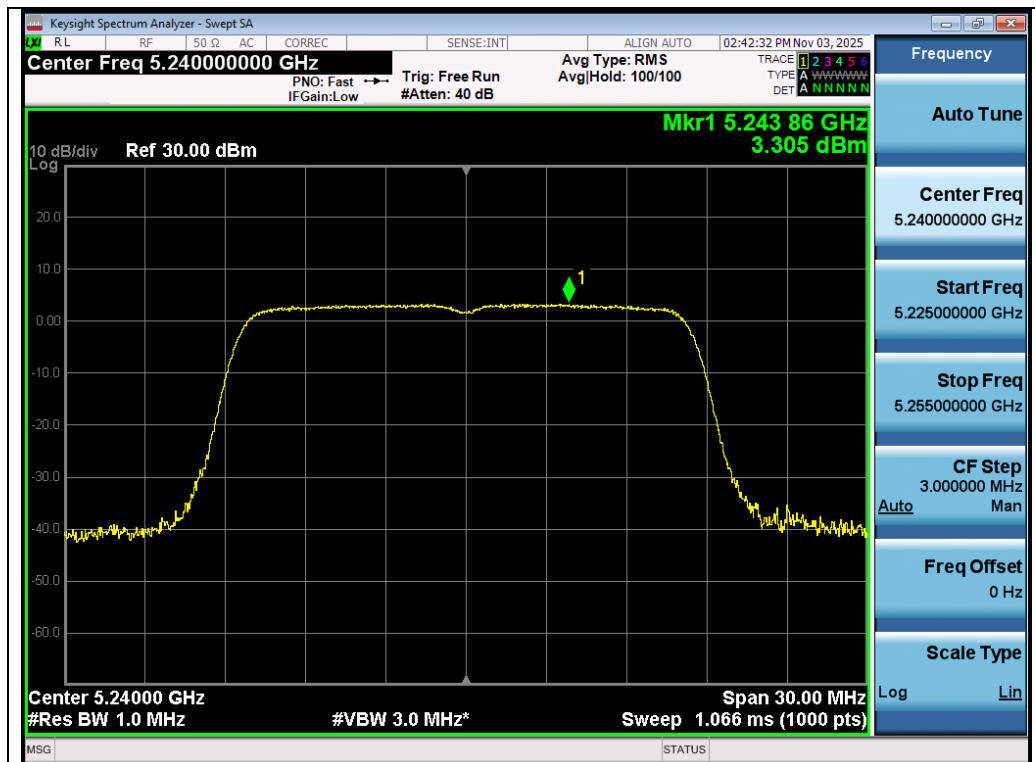
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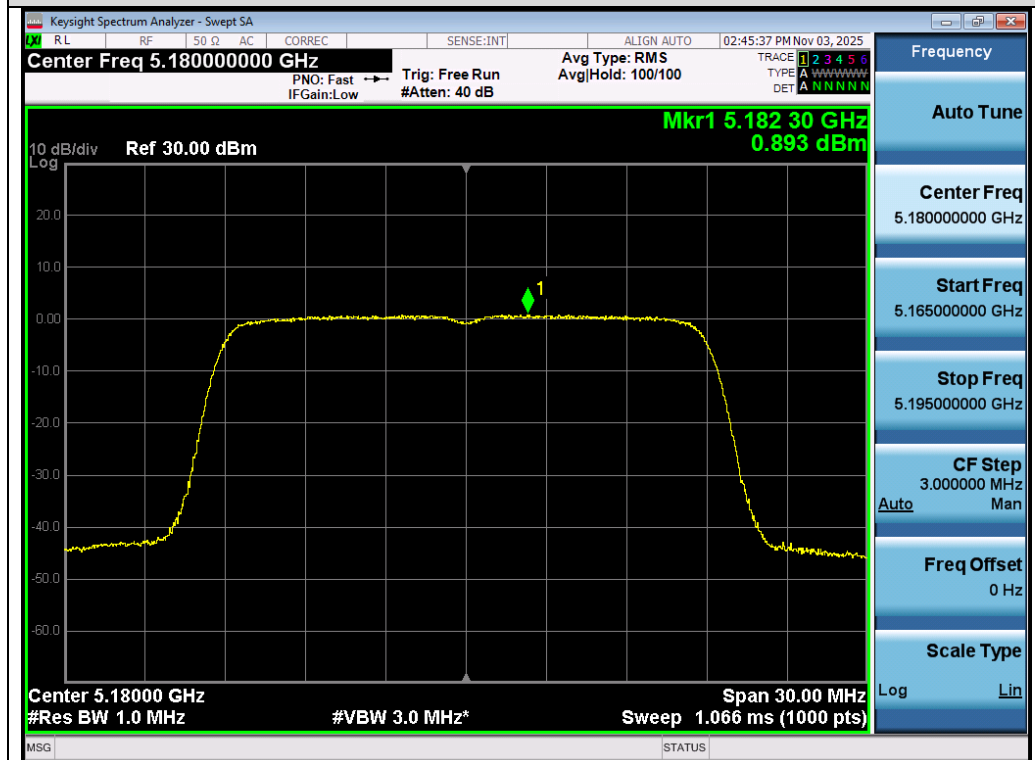


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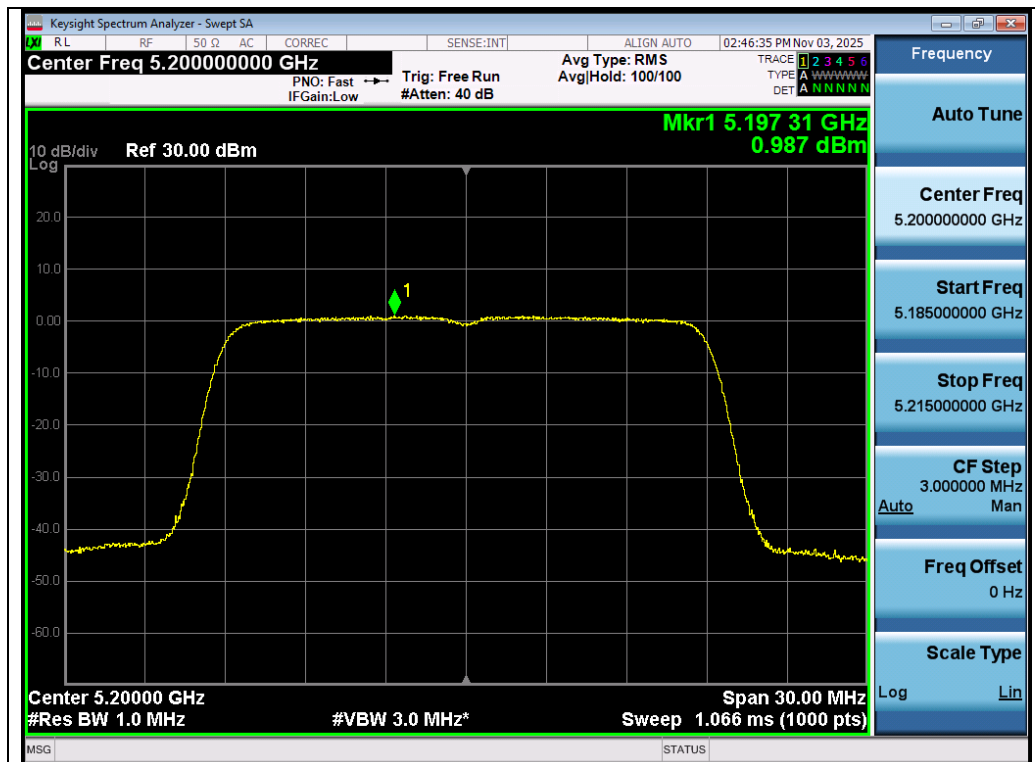


Test_Graph_802.11a_Ant 2_5240_6Mbps_PSD

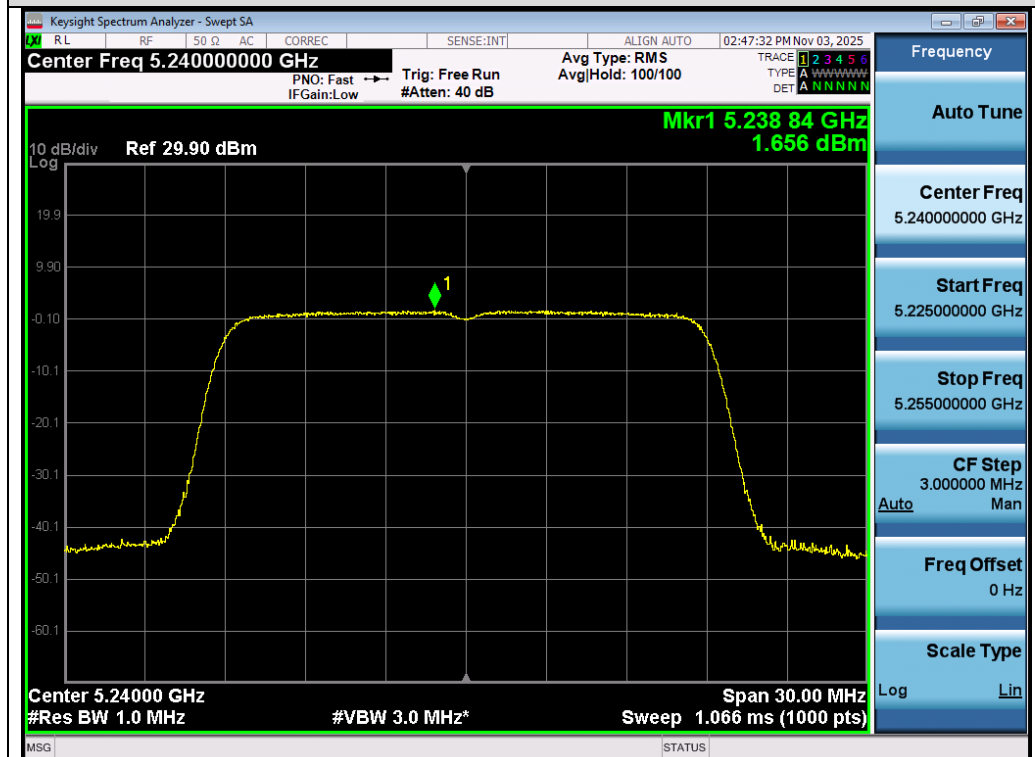


Test_Graph_802.11n20_Ant 2_5180_MCS0_PSD

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Test_Graph_802.11n20_Ant 2_5200_MCS0_PSD



Test_Graph_802.11n20_Ant 2_5240_MCS0_PSD

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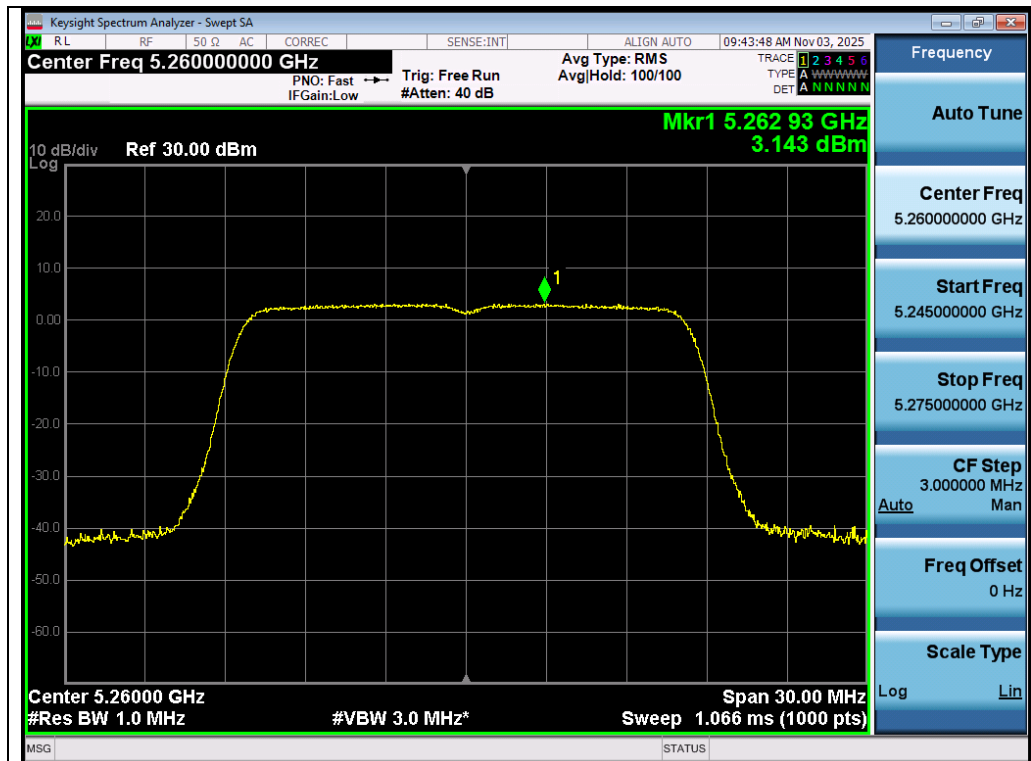
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Test_Graph_802.11n40_Ant 2_5230_MCS0_PSD

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

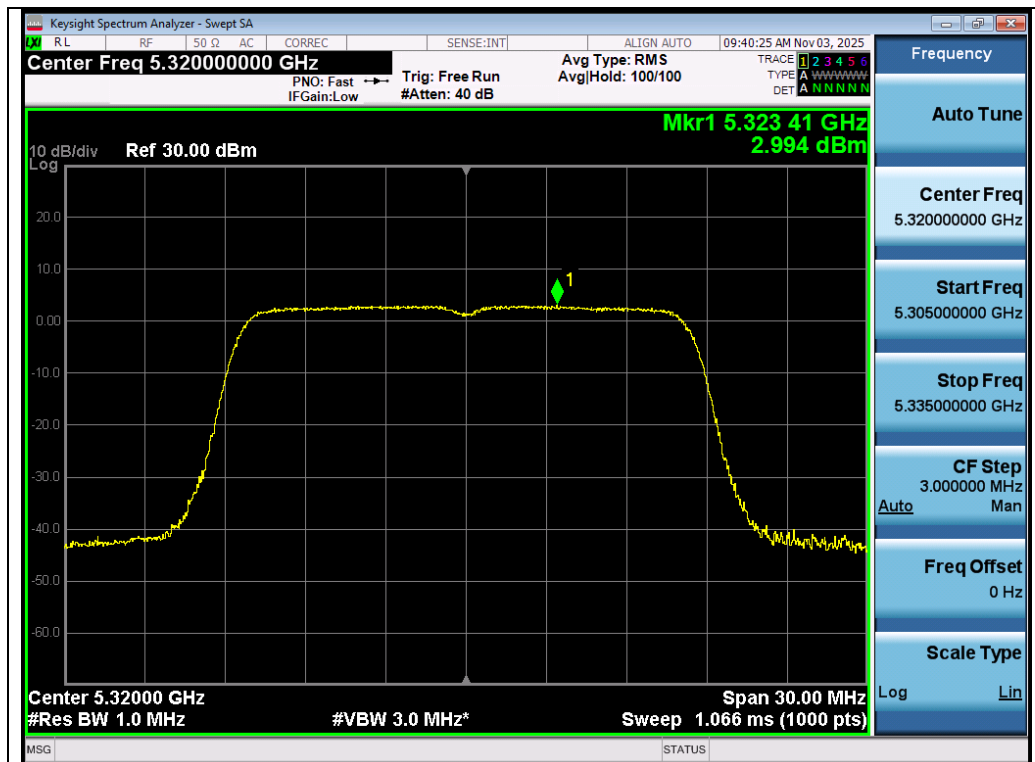


Test_Graph_802.11a_Ant 1_5260_6Mbps_PSD



Test_Graph_802.11a_Ant 1_5300_6Mbps_PSD

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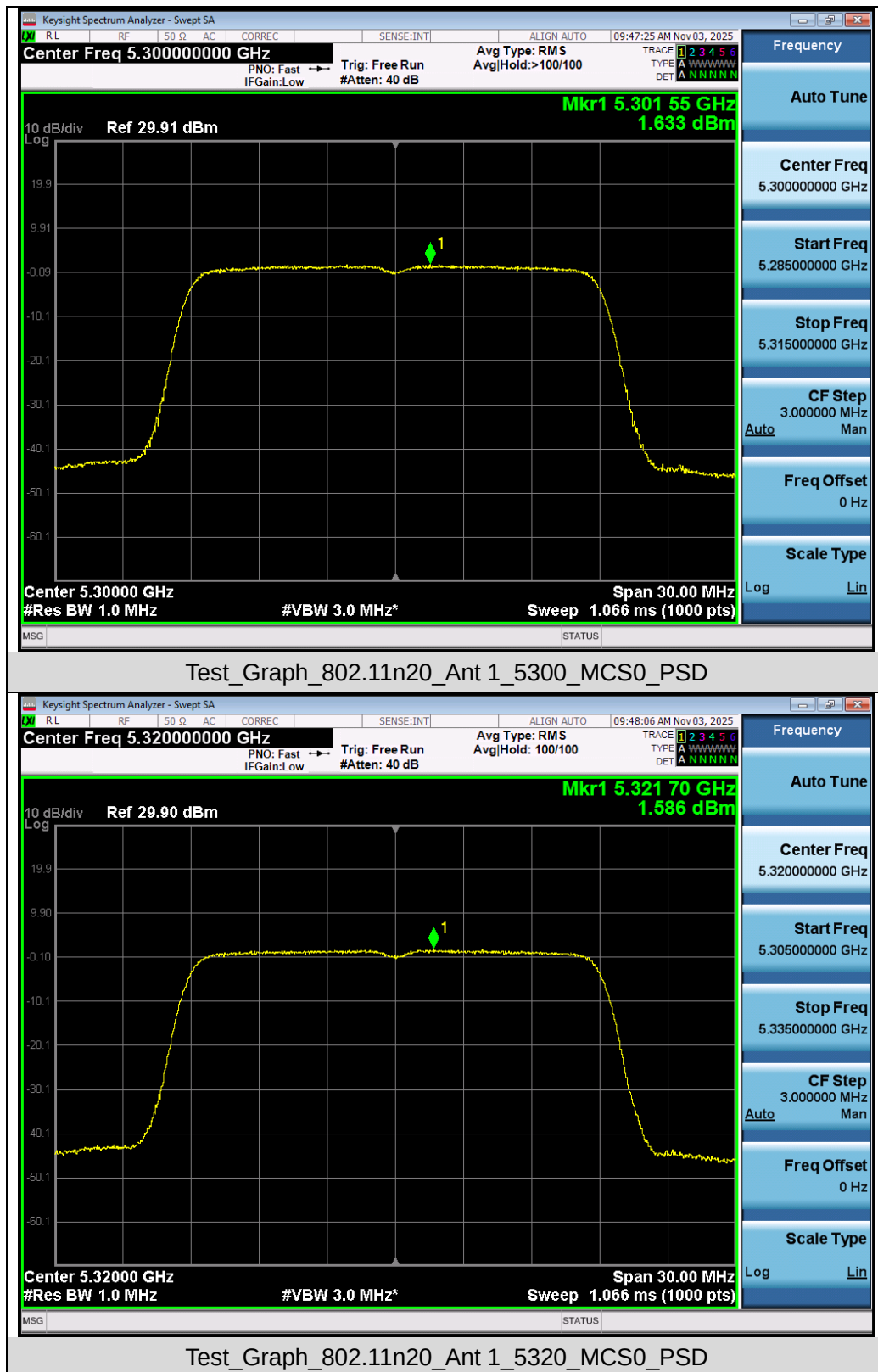


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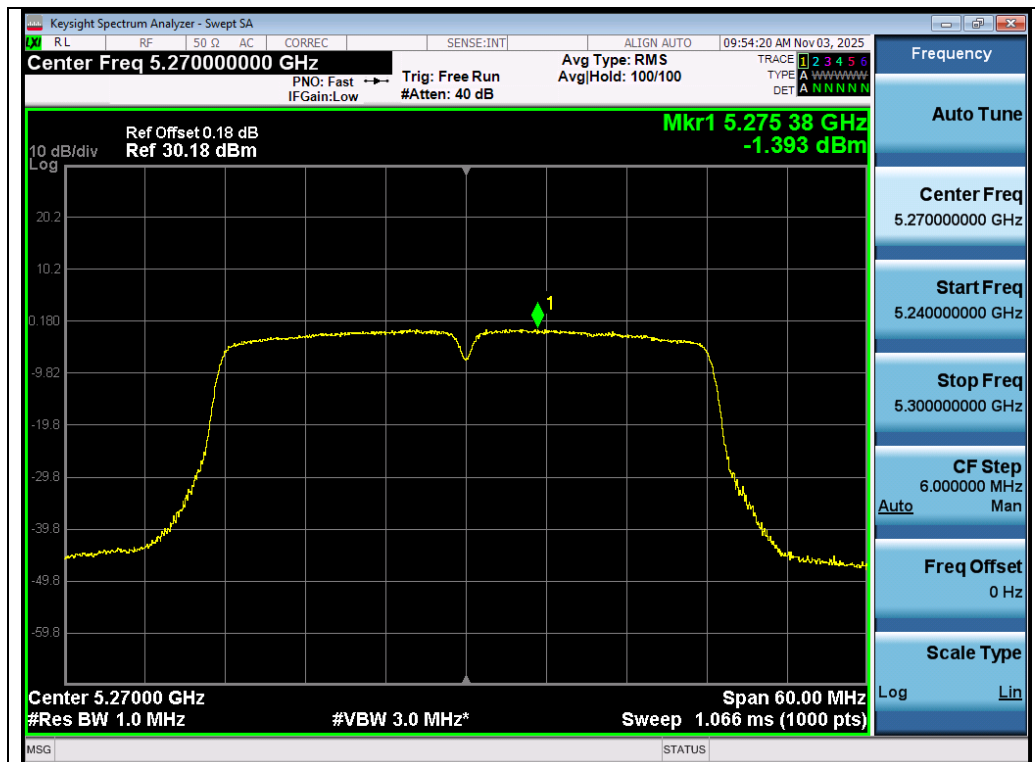
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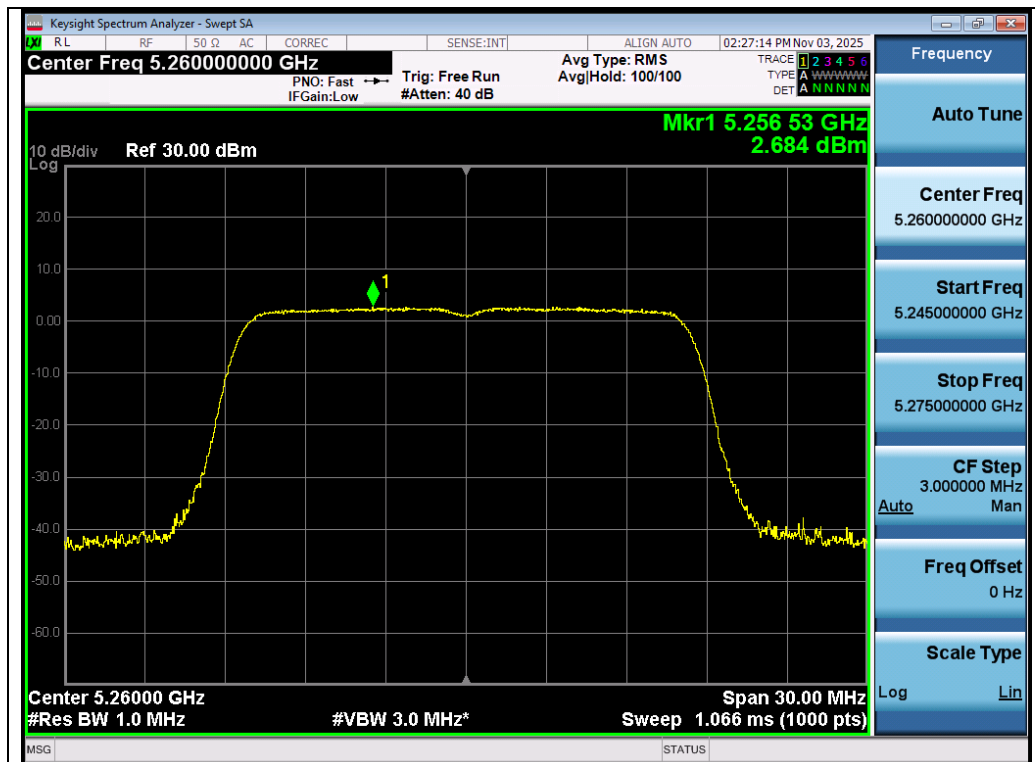
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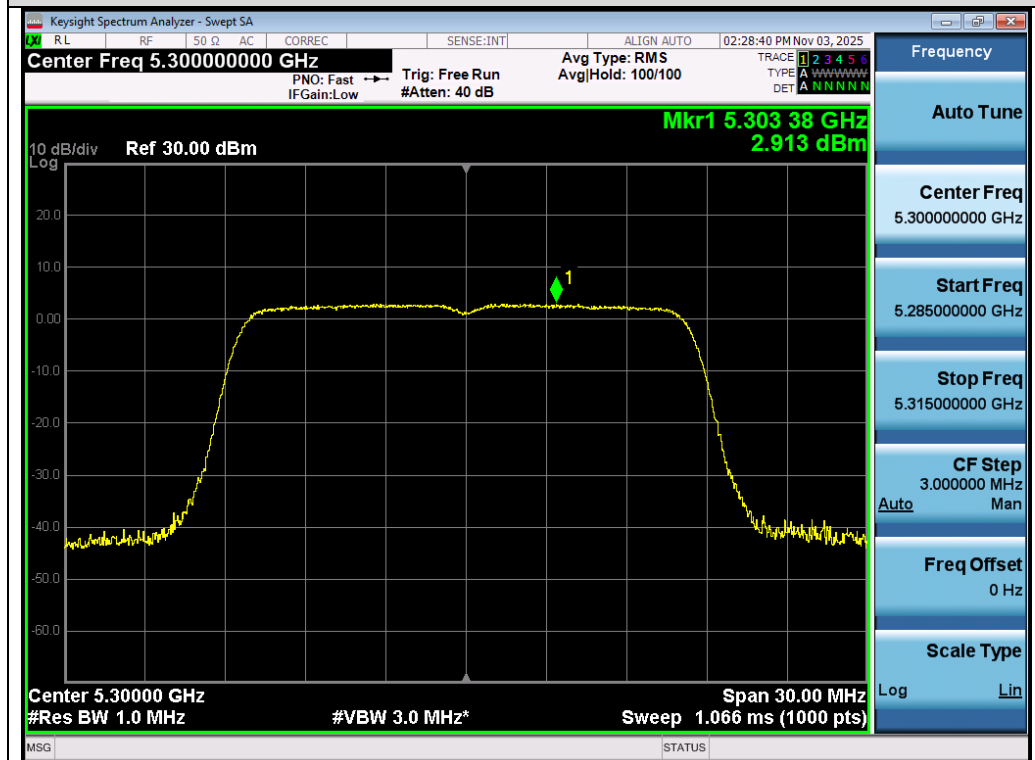
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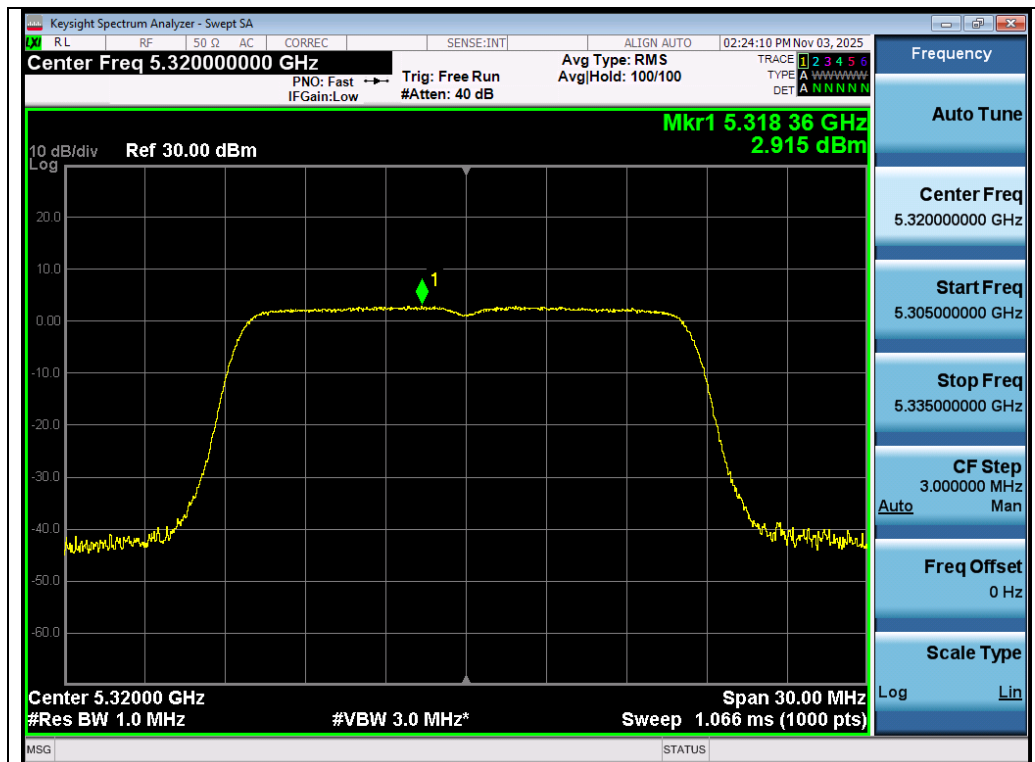


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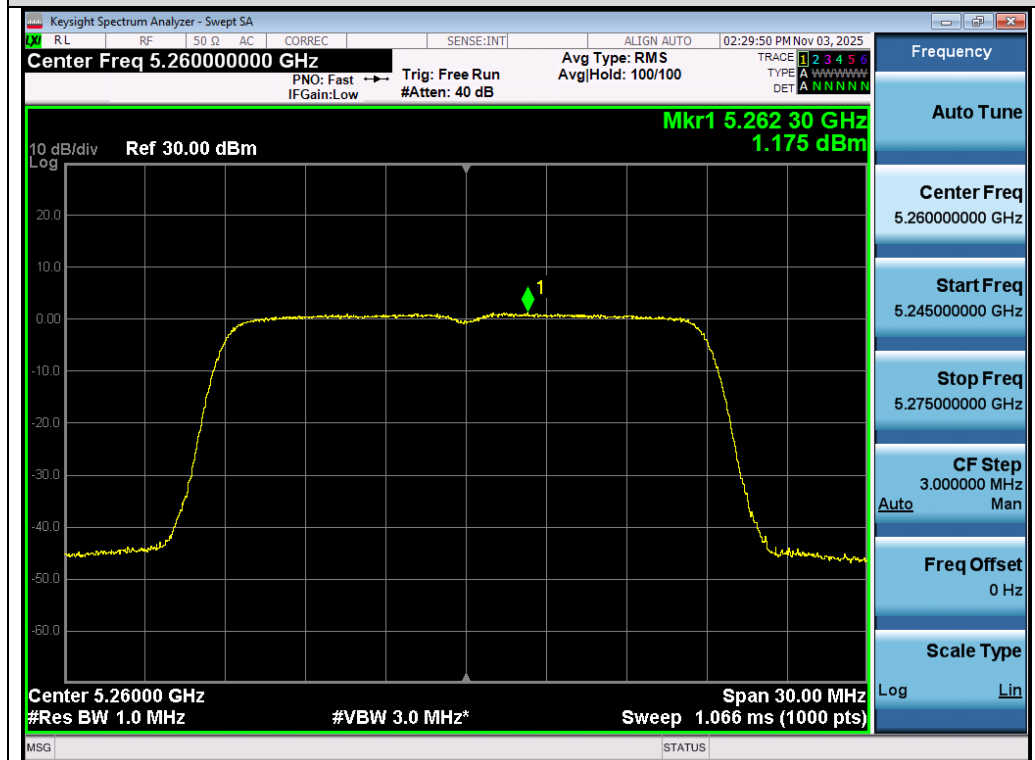


Test_Graph_802.11a_Ant 2_5300_6Mbps_PSD

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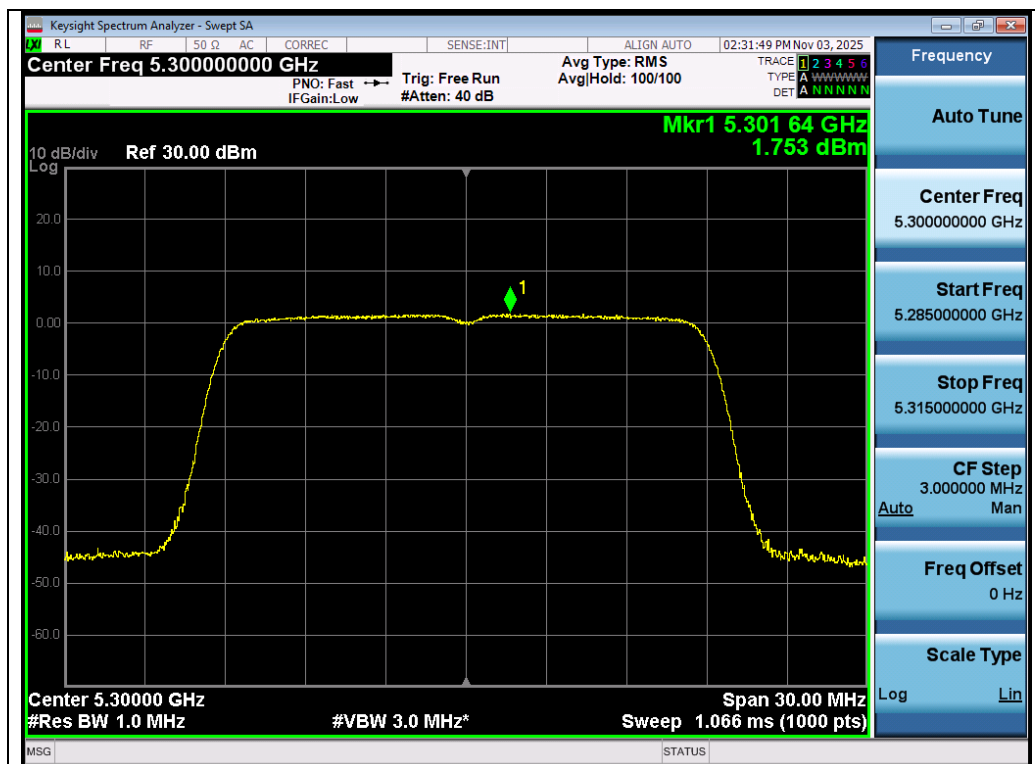
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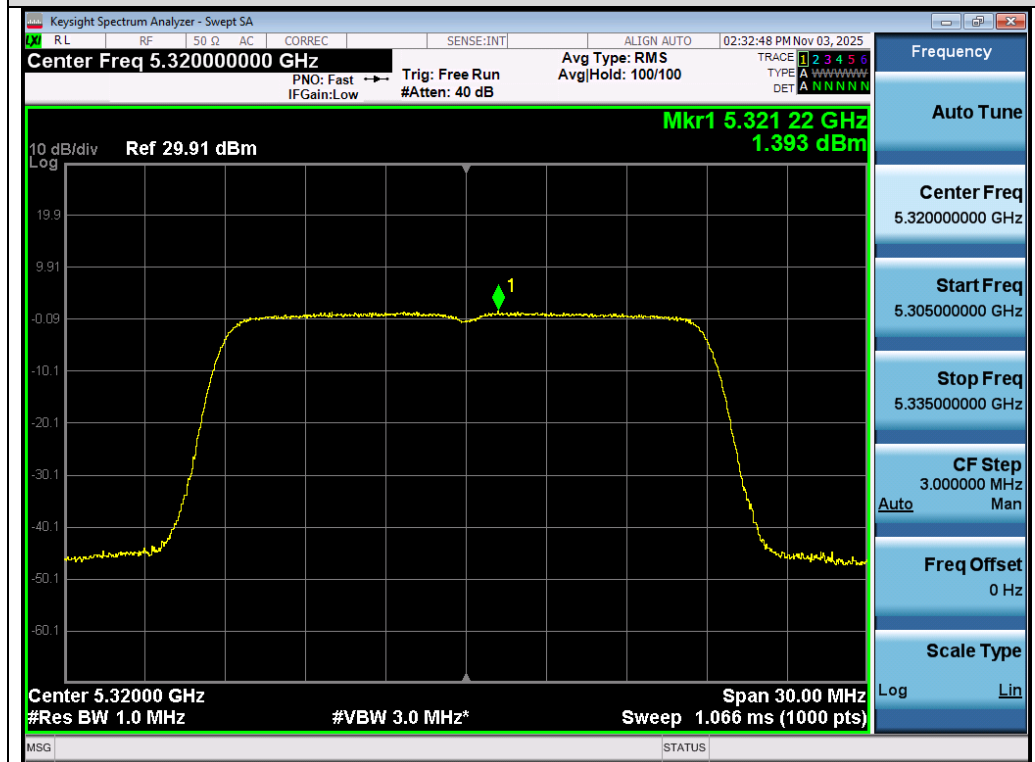
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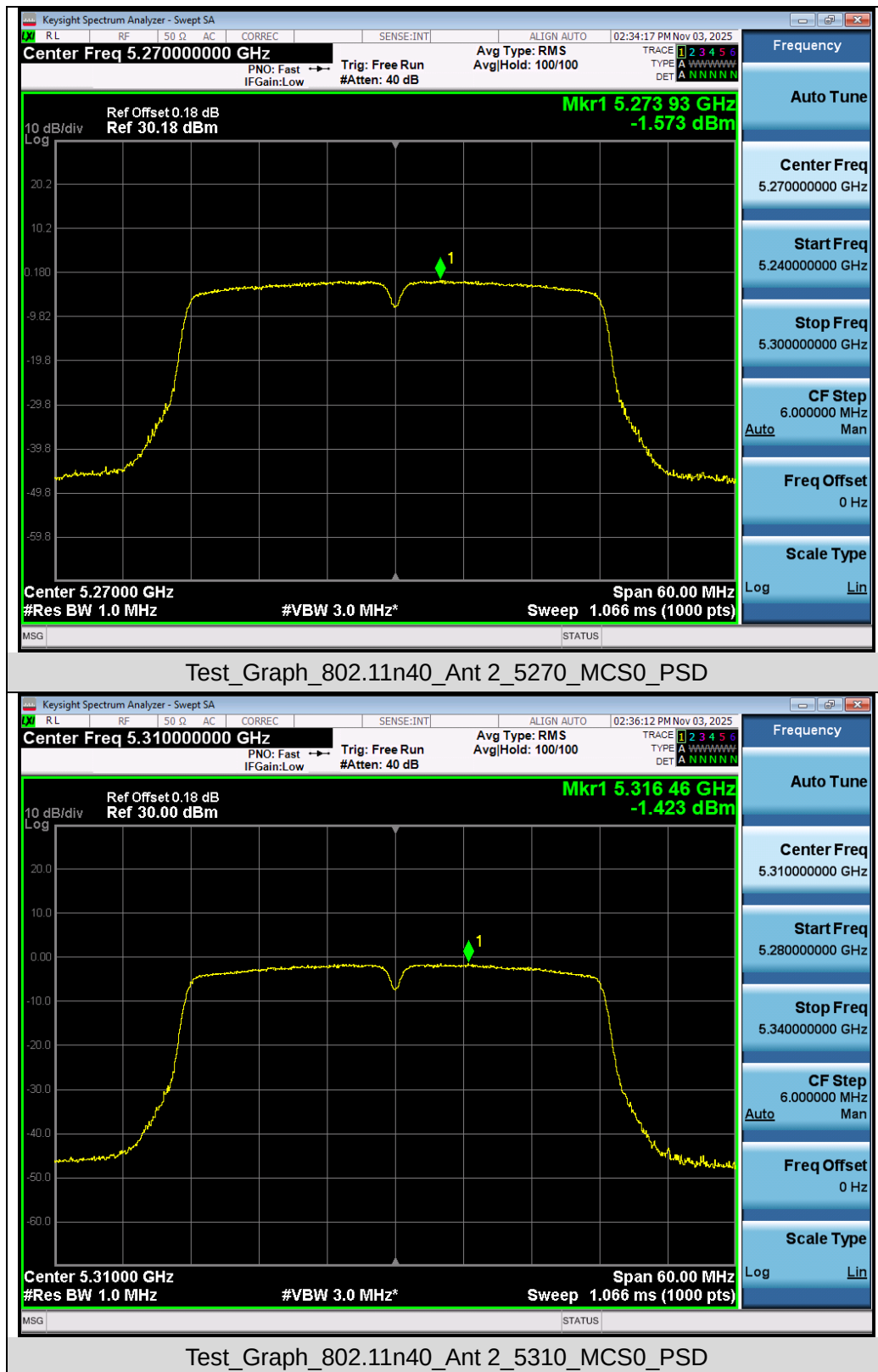


Test_Graph_802.11n20_Ant 2_5300_MCS0_PSD



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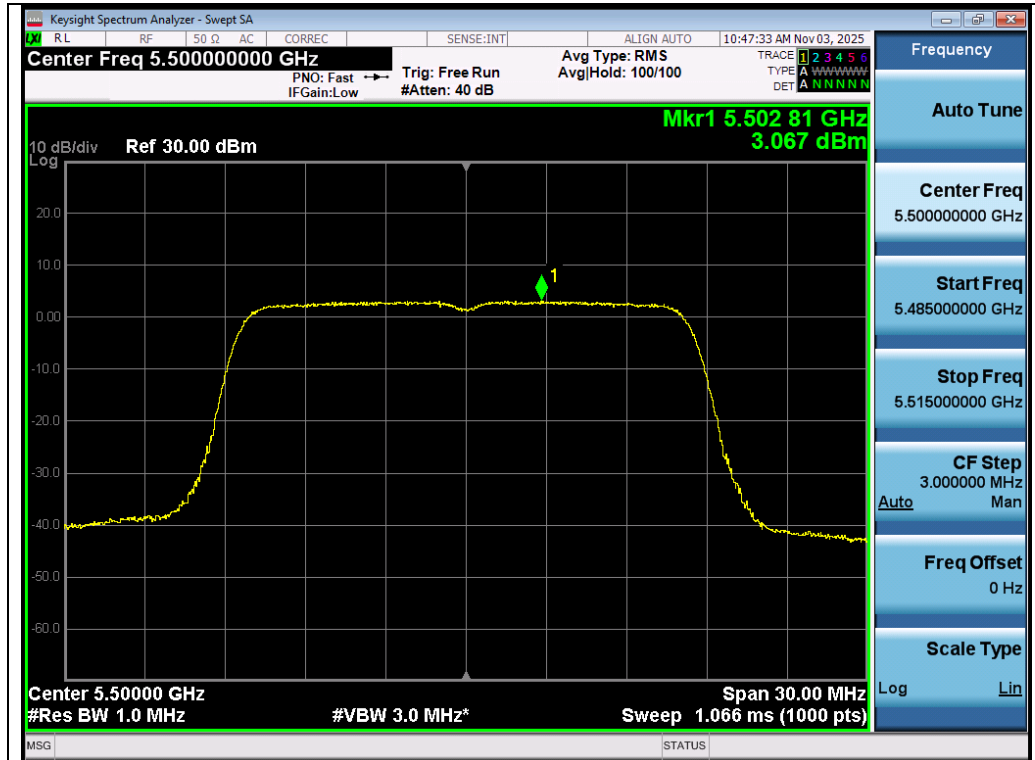
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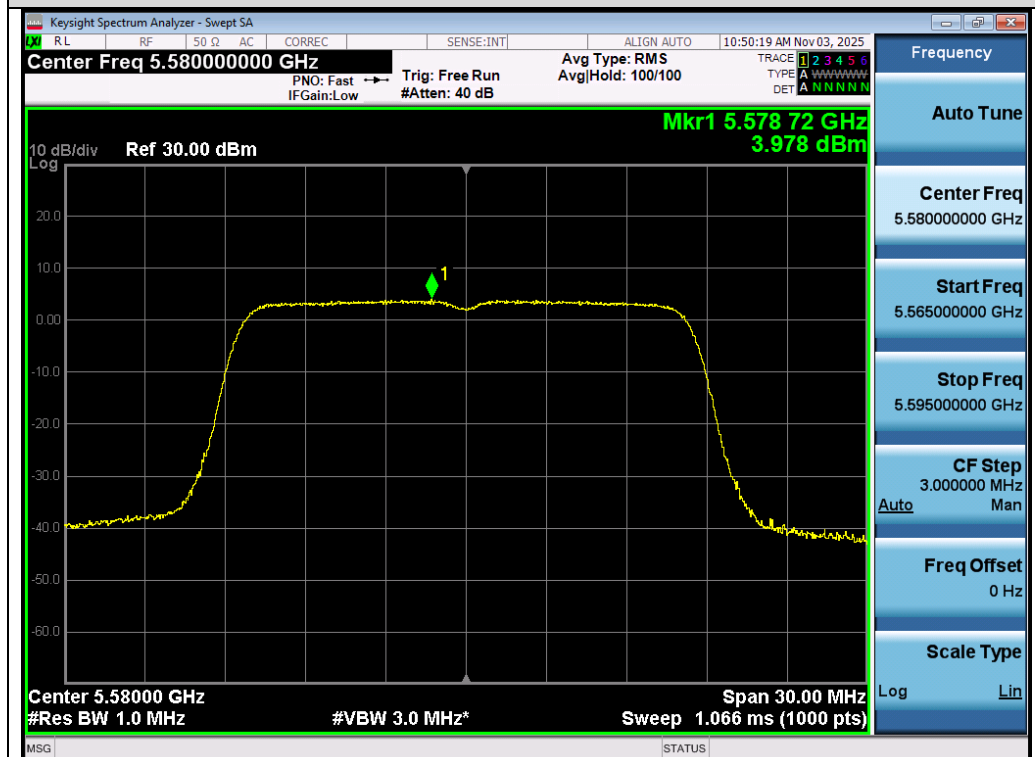
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Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz

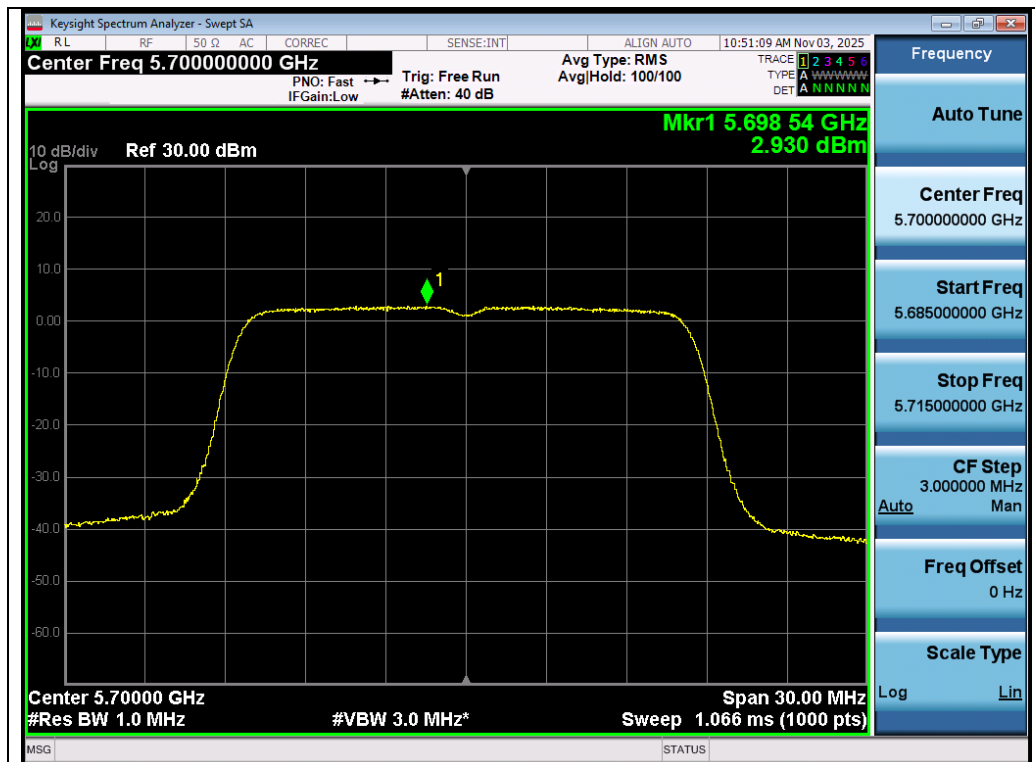


Test_Graph_802.11a_Ant 1_5500_6Mbps_PSD



Test_Graph_802.11a_Ant 1_5580_6Mbps_PSD

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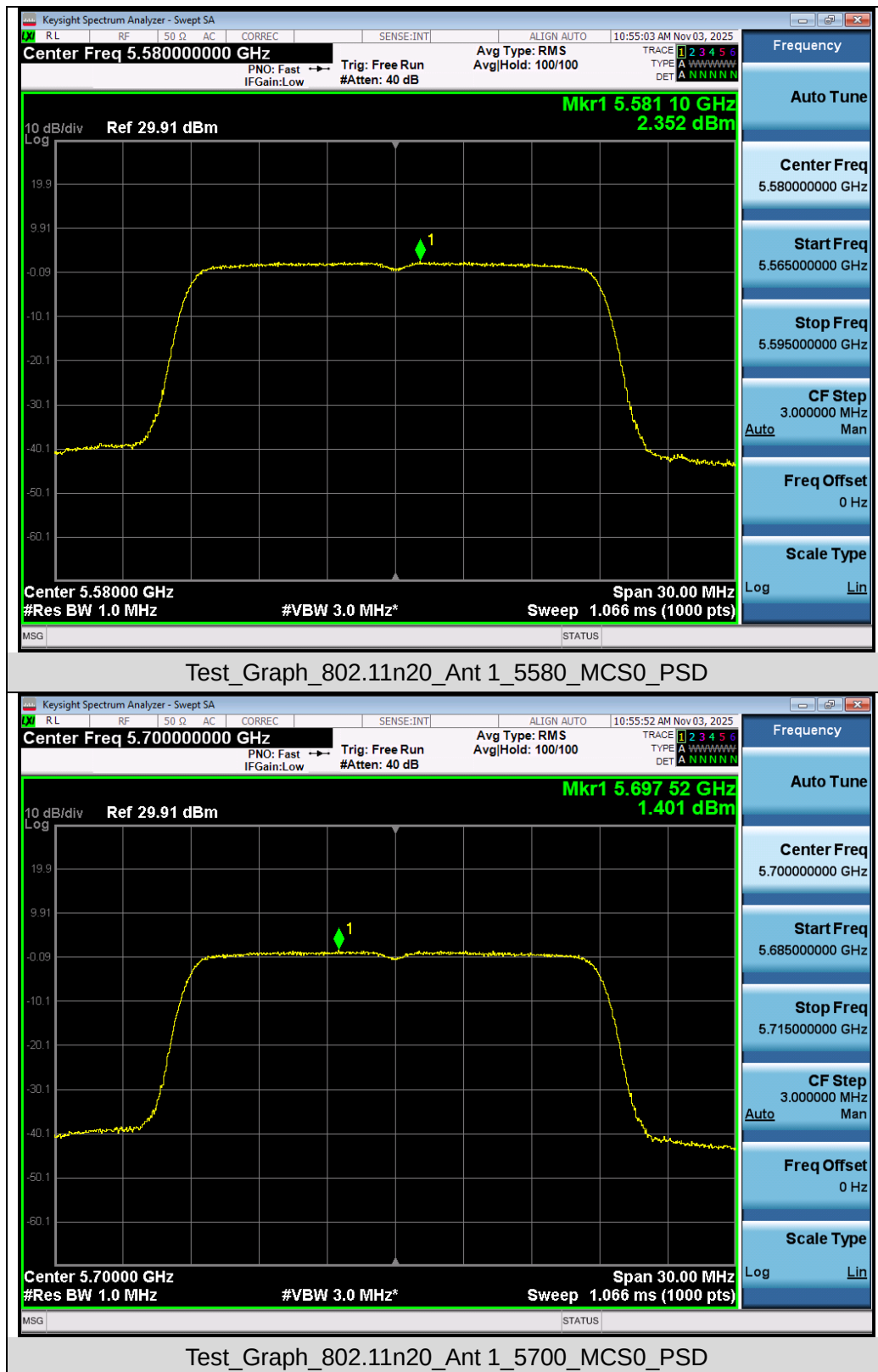


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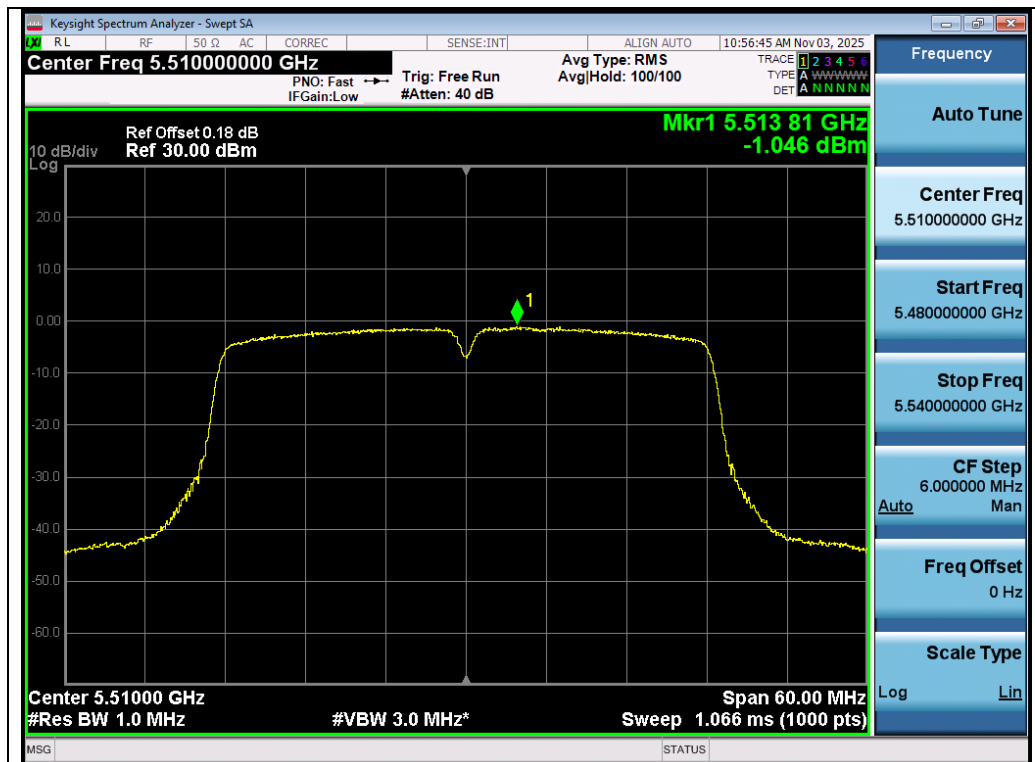
Test_Graph_802.11n20_Ant 1_5500_MCS0_PSD

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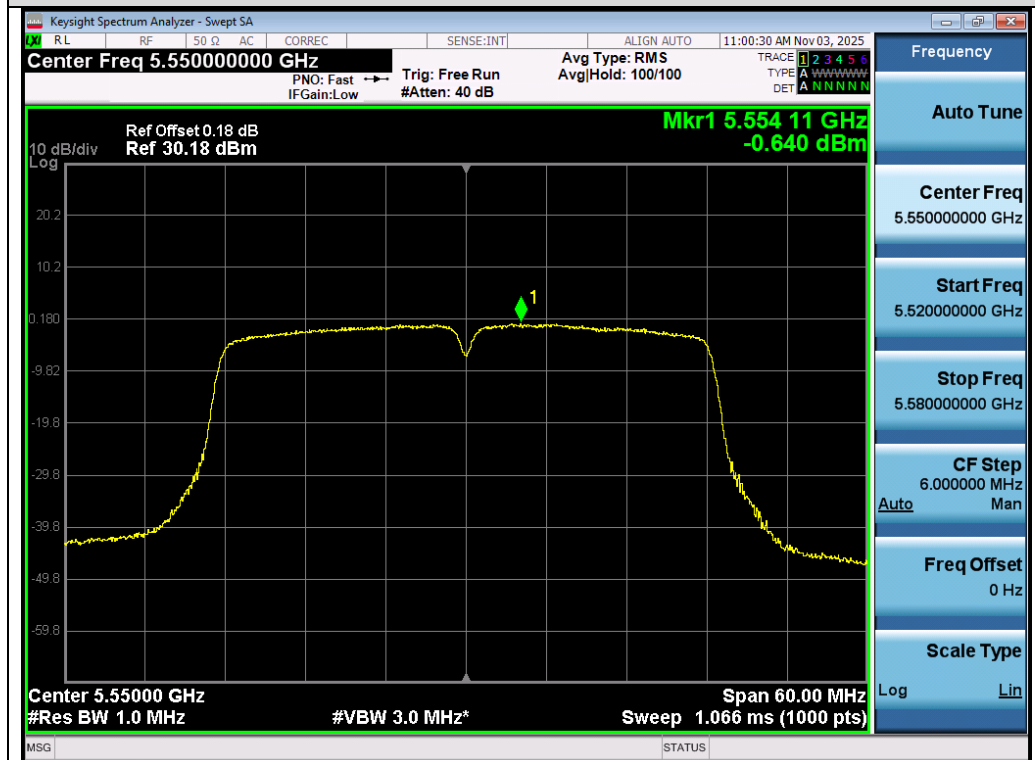


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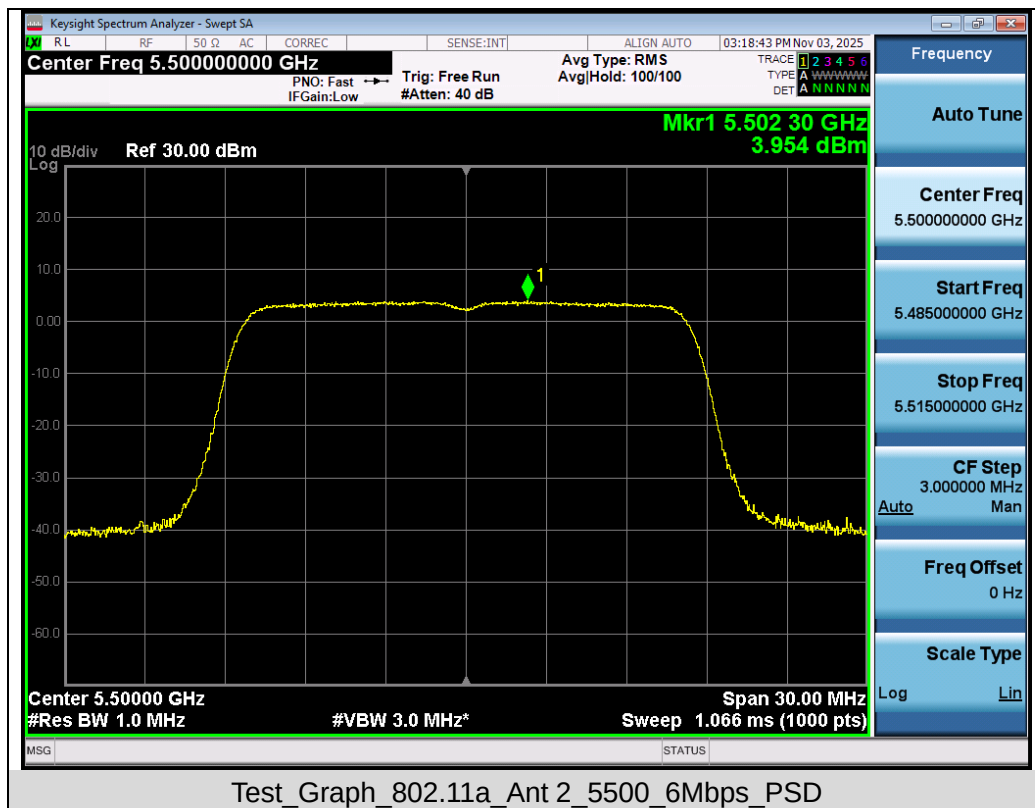
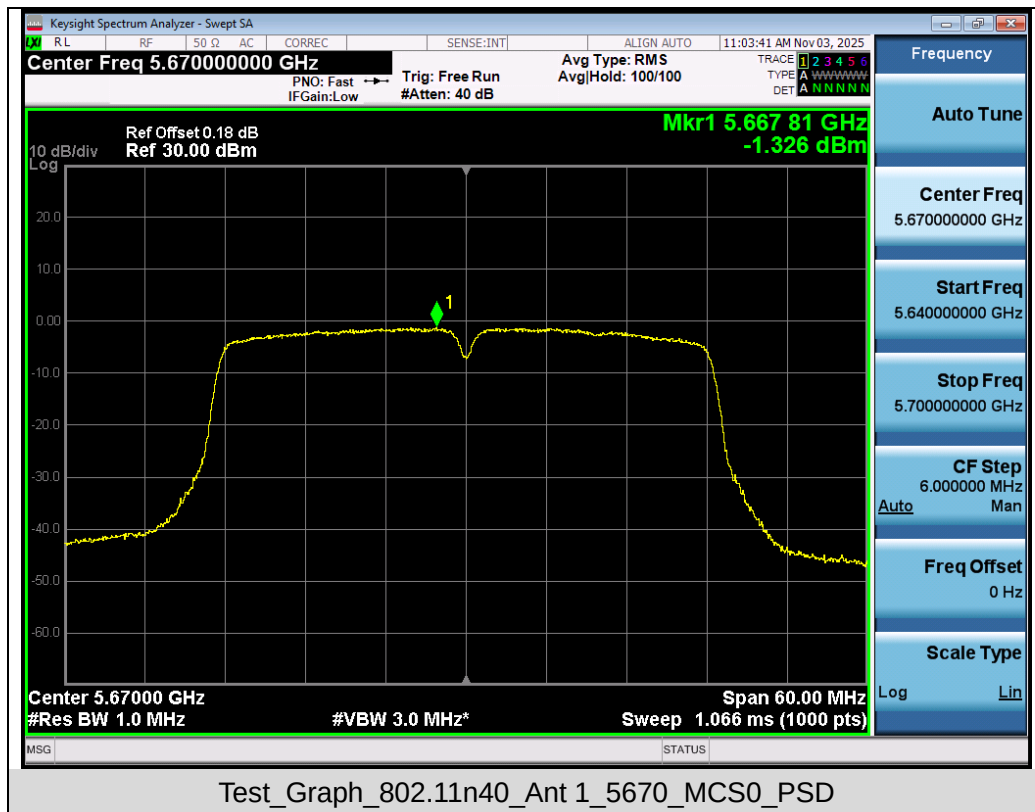


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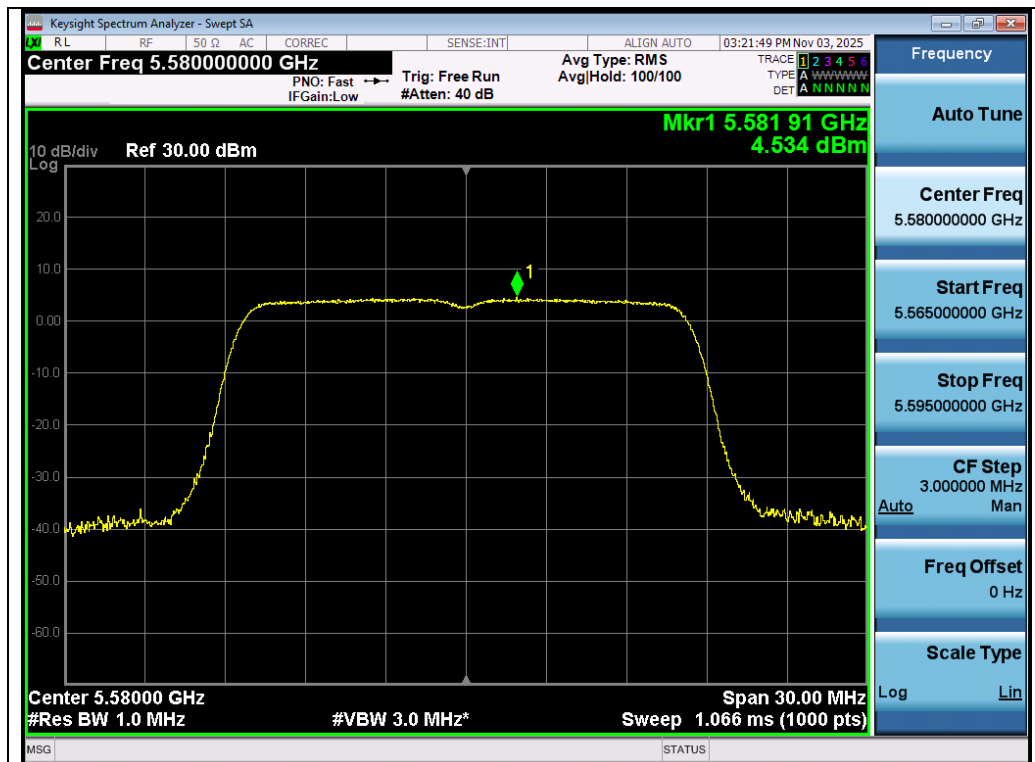
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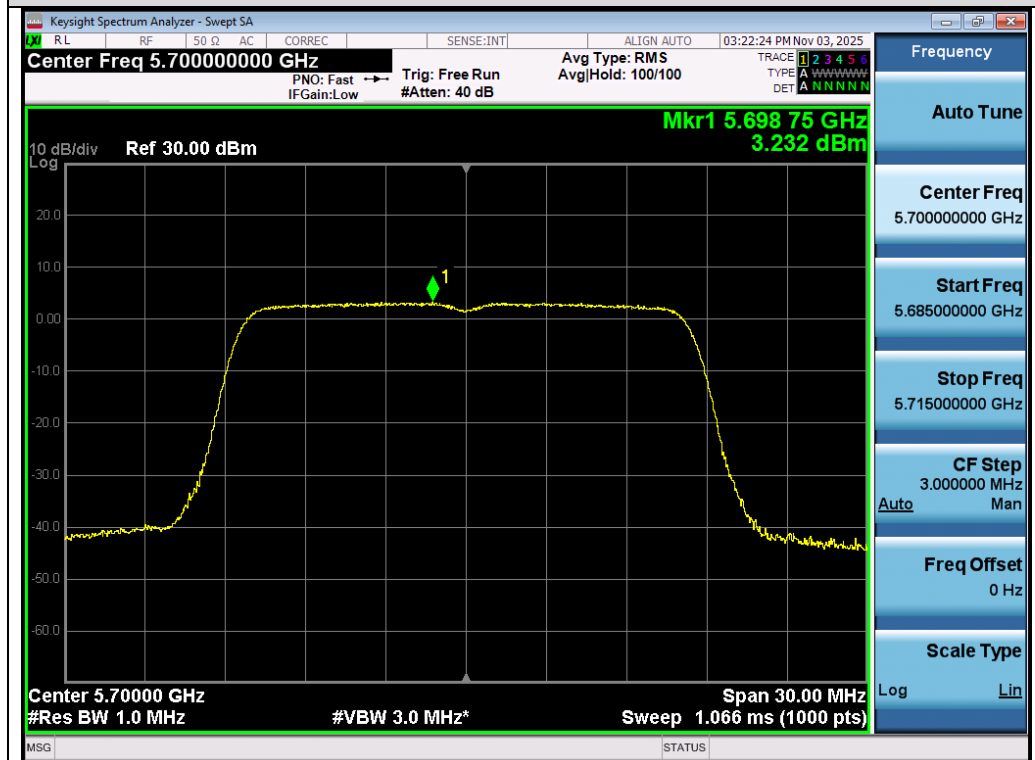


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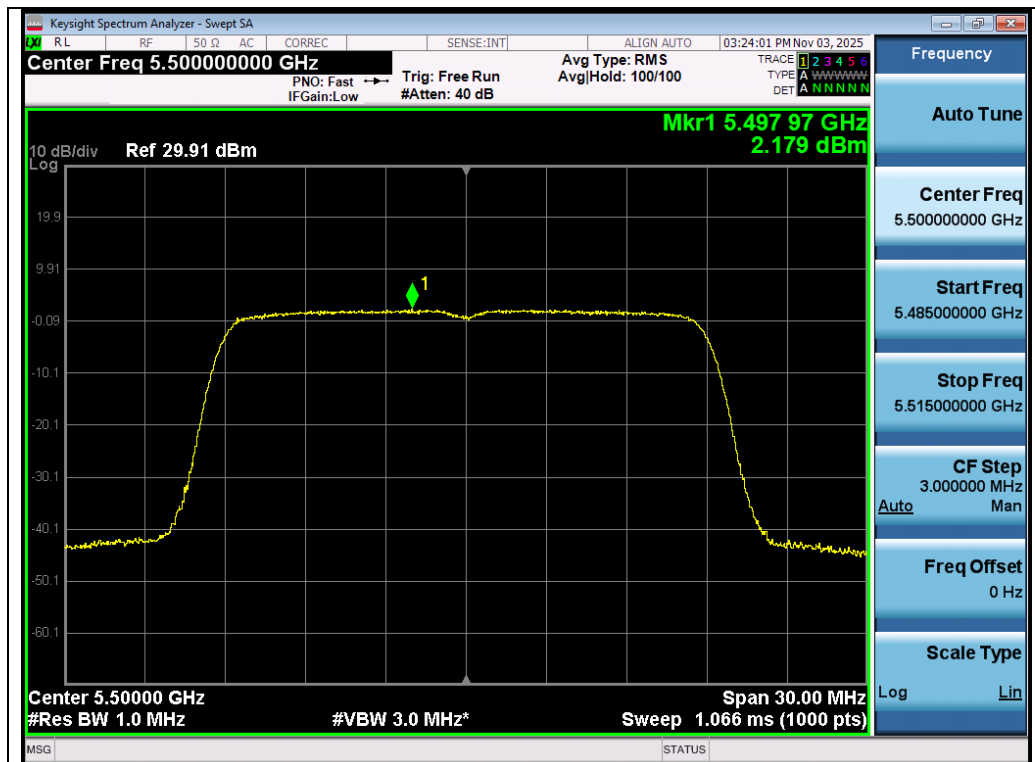
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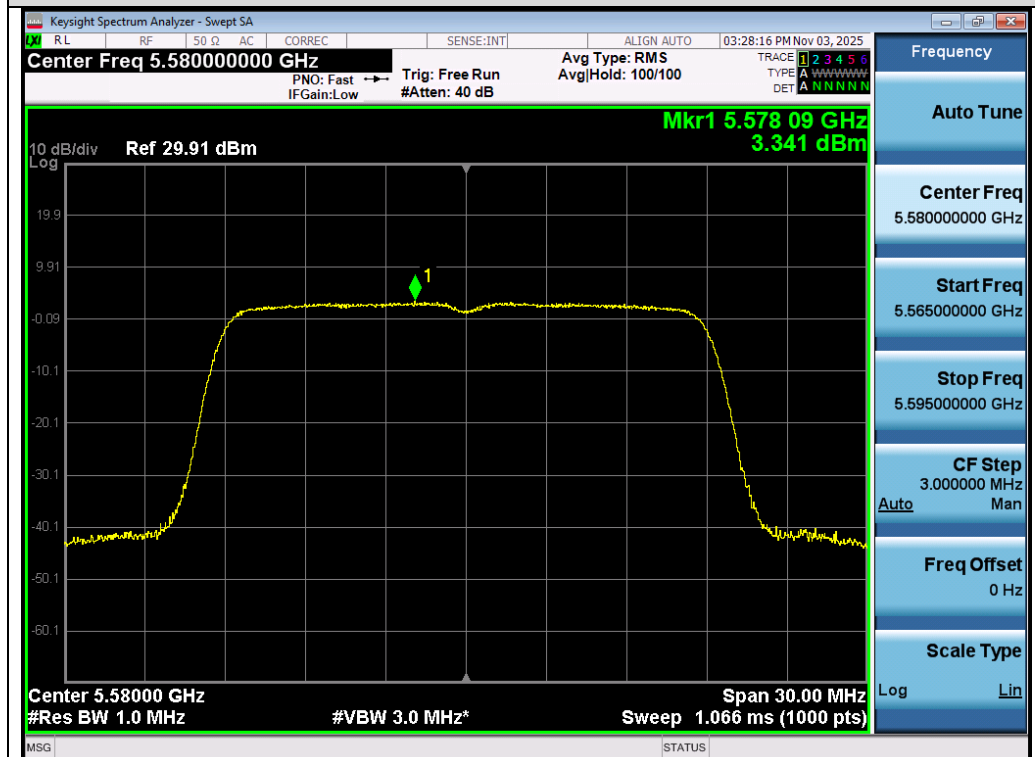
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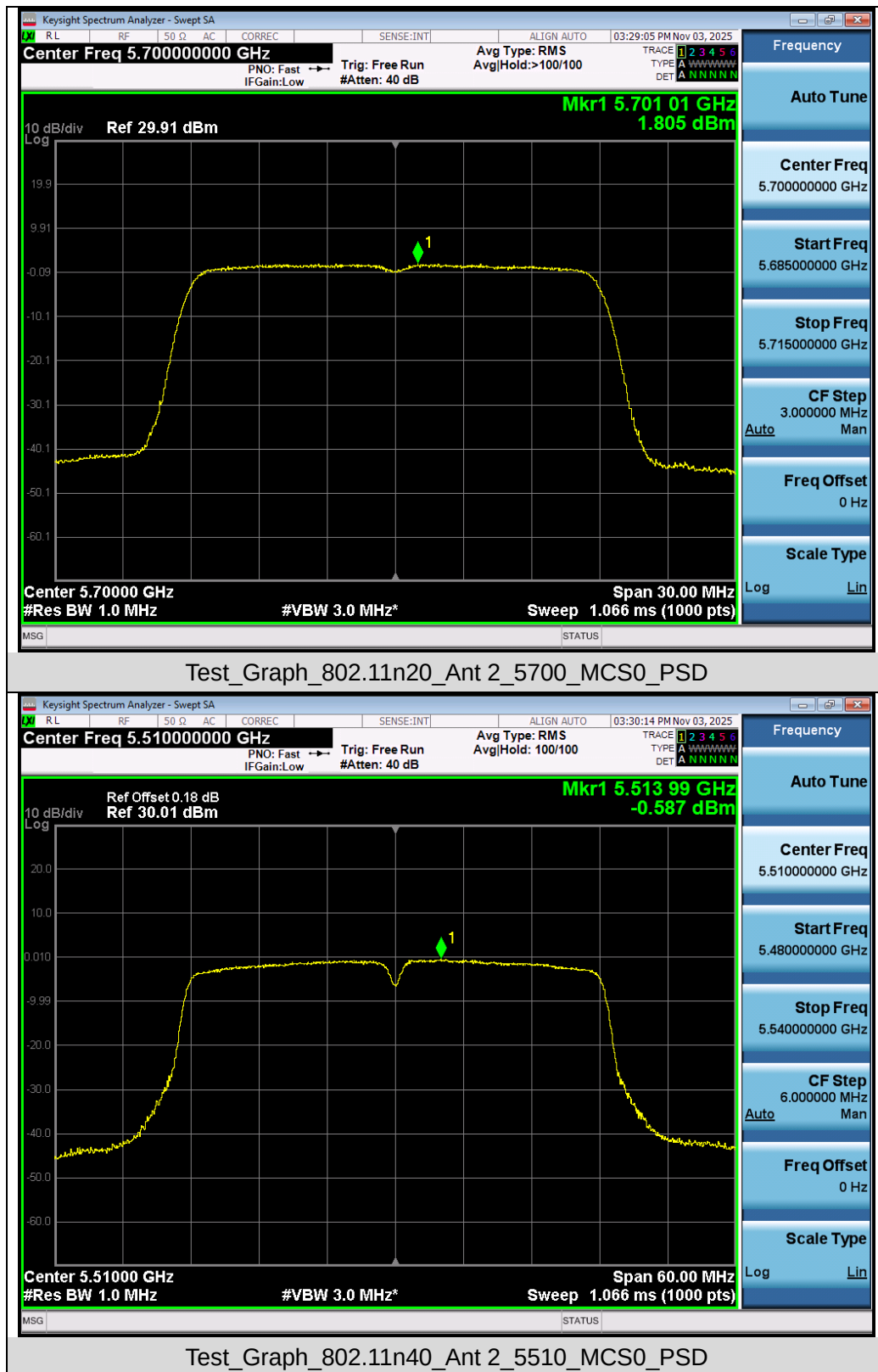
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