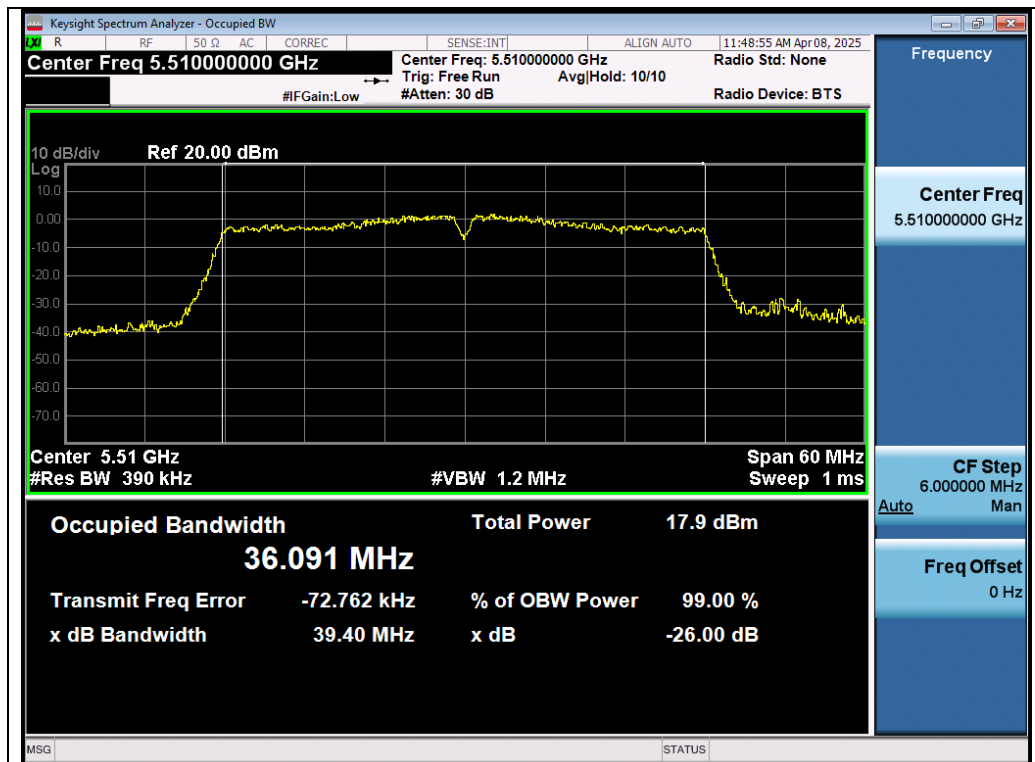
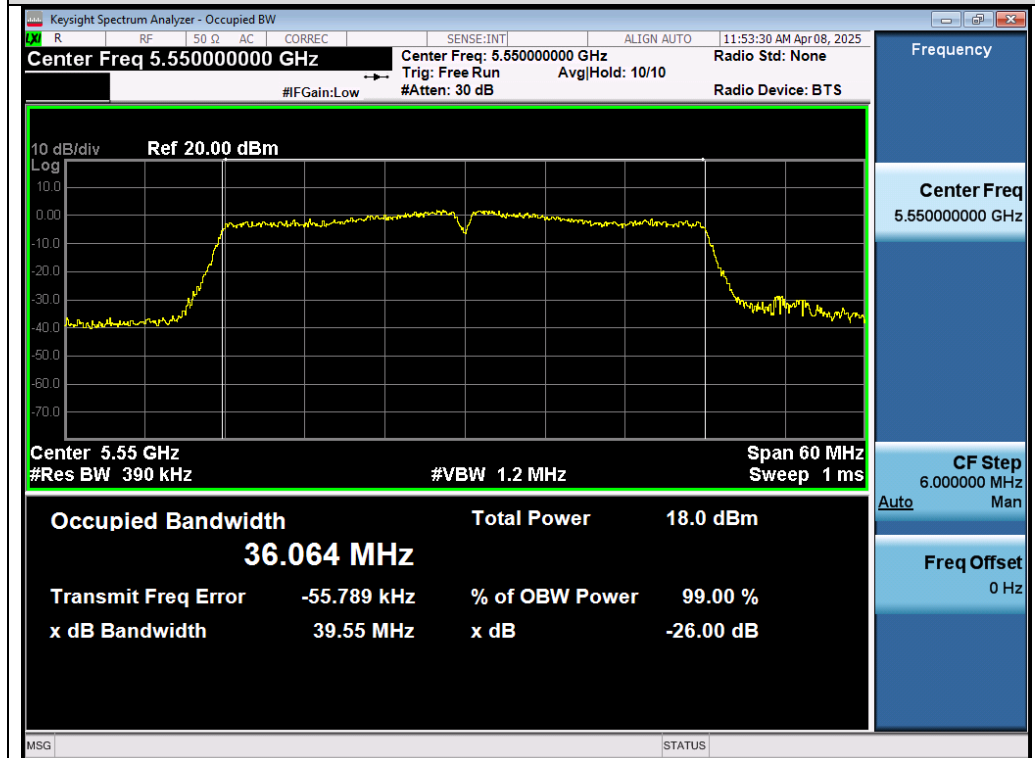


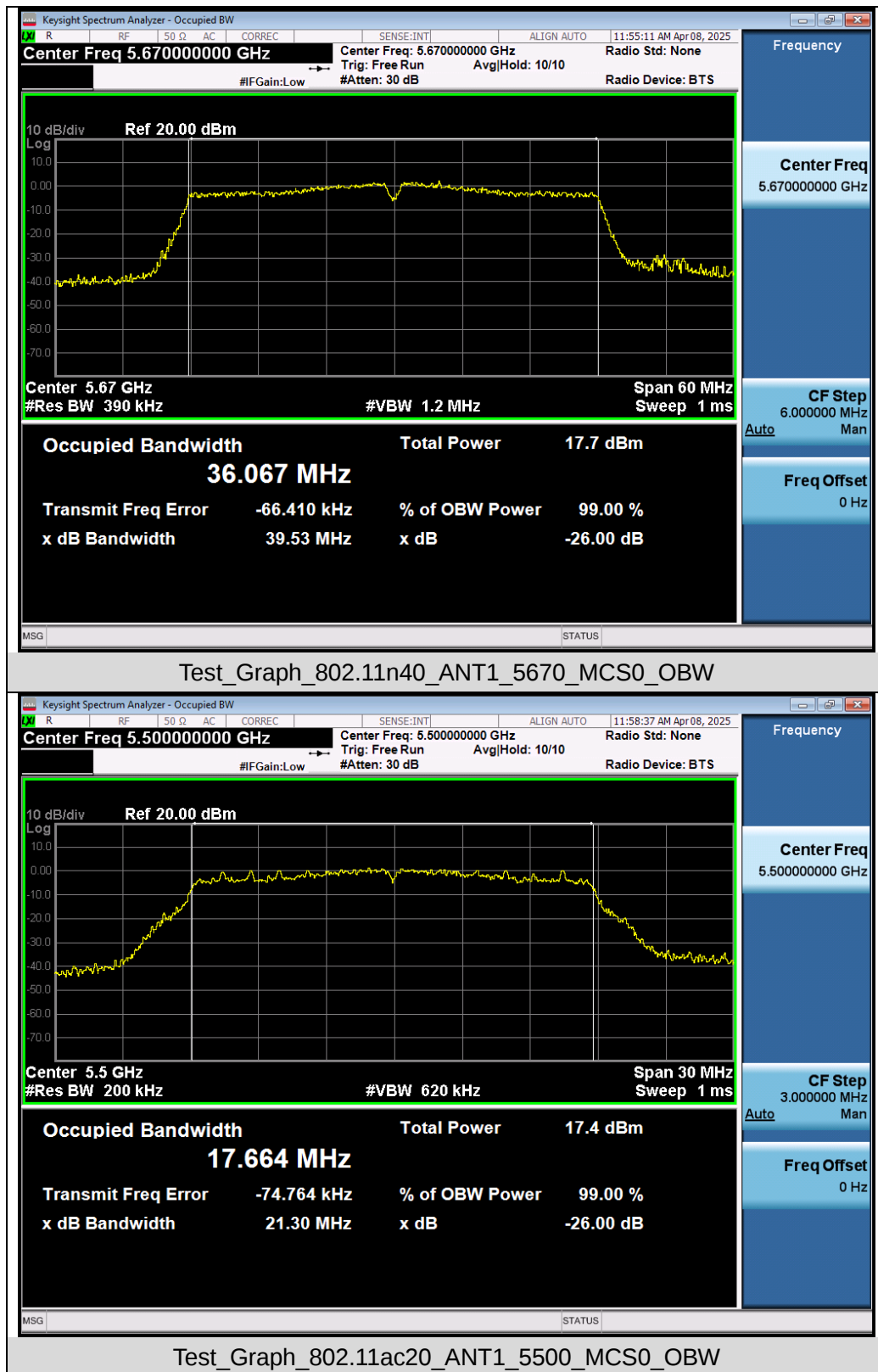


Test_Graph_802.11n40_ANT1_5510_MCS0_OBW

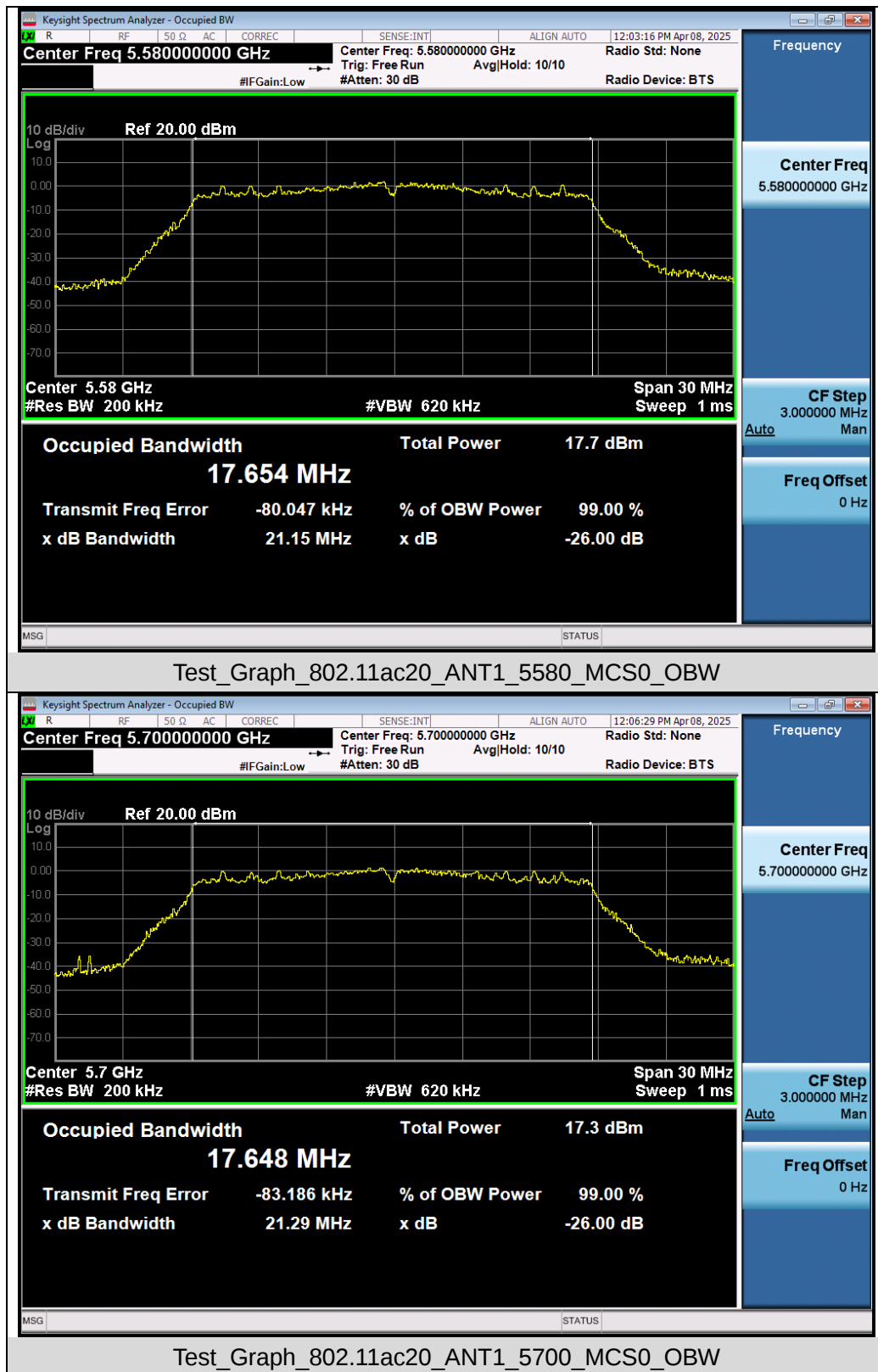


Test_Graph_802.11n40_ANT1_5550_MCS0_OBW

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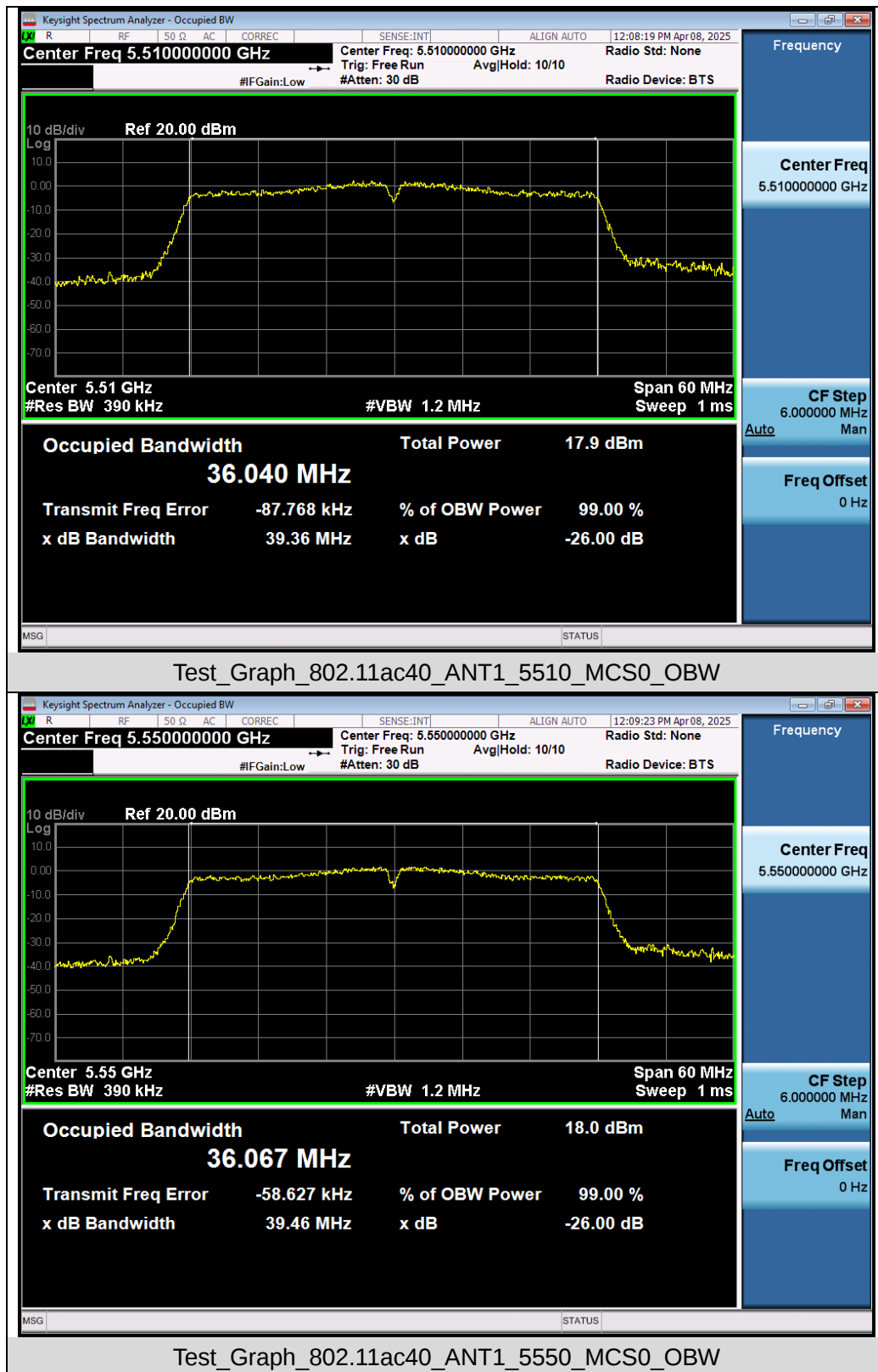


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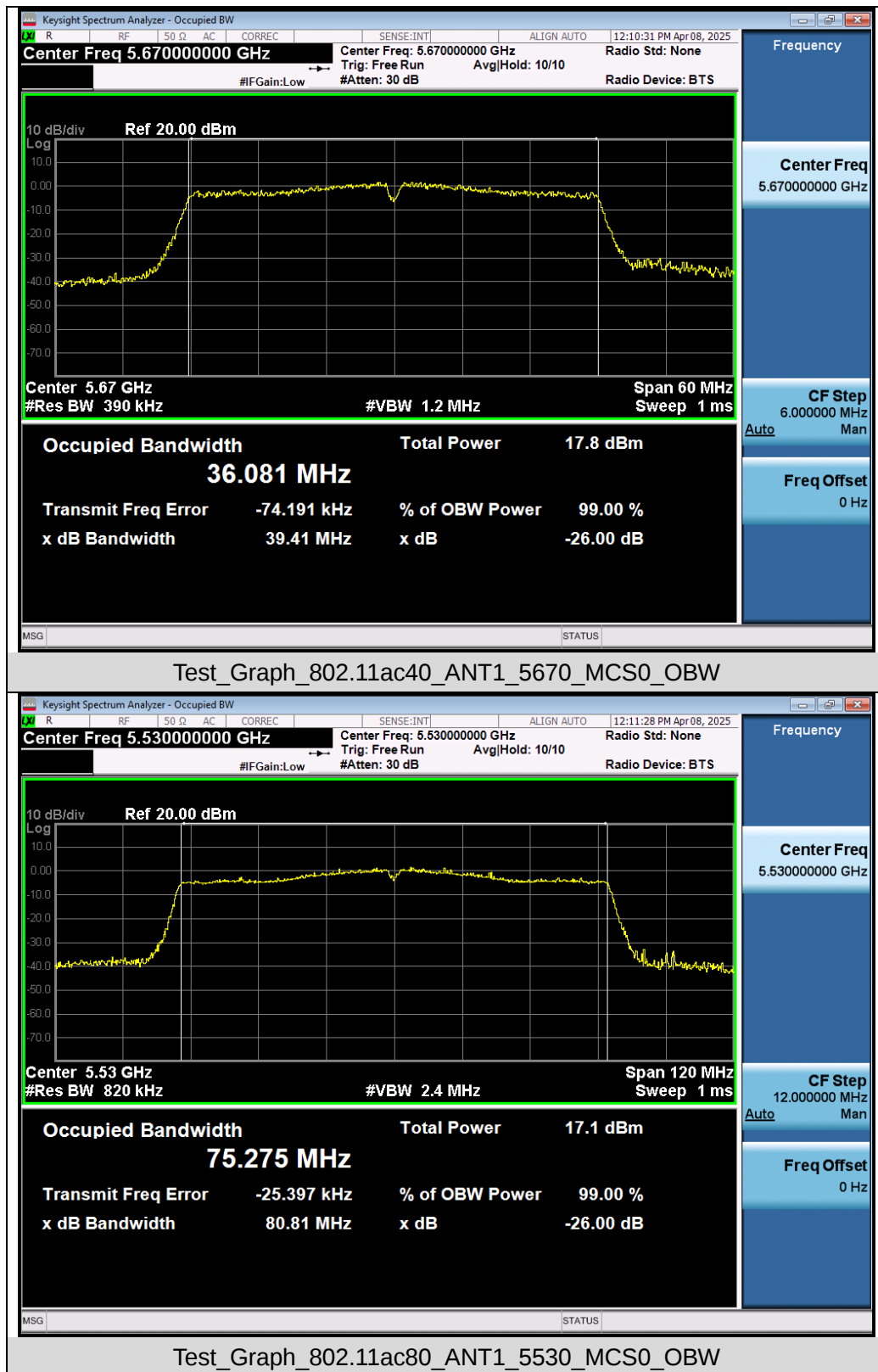


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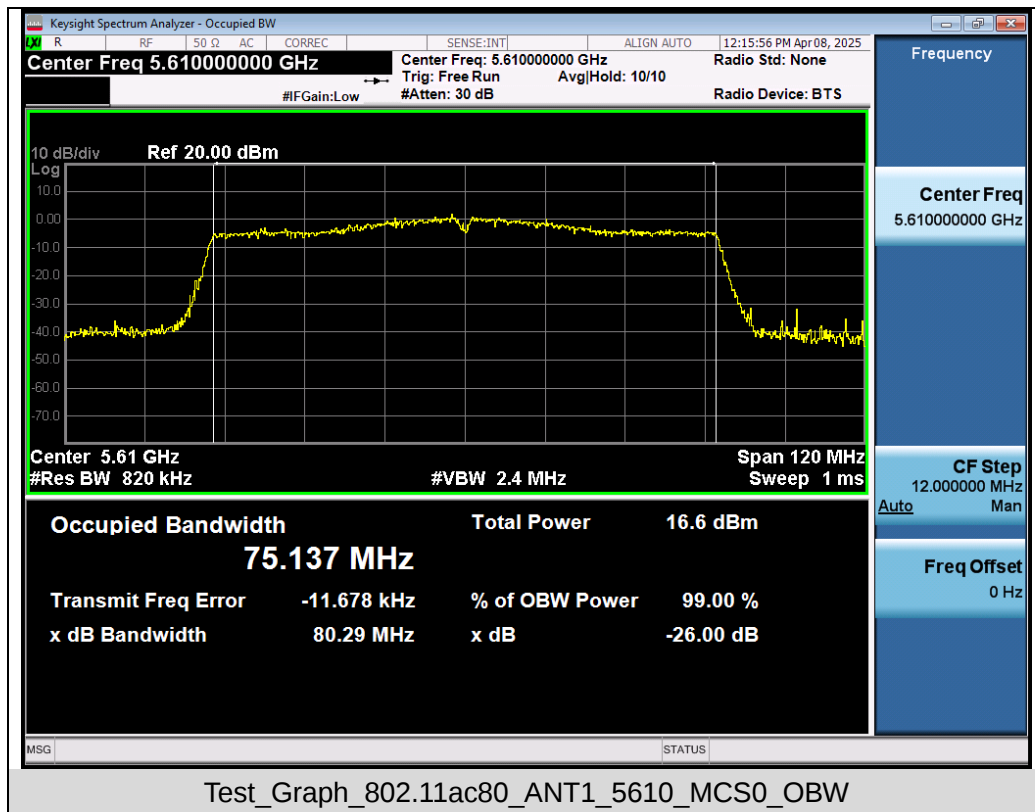
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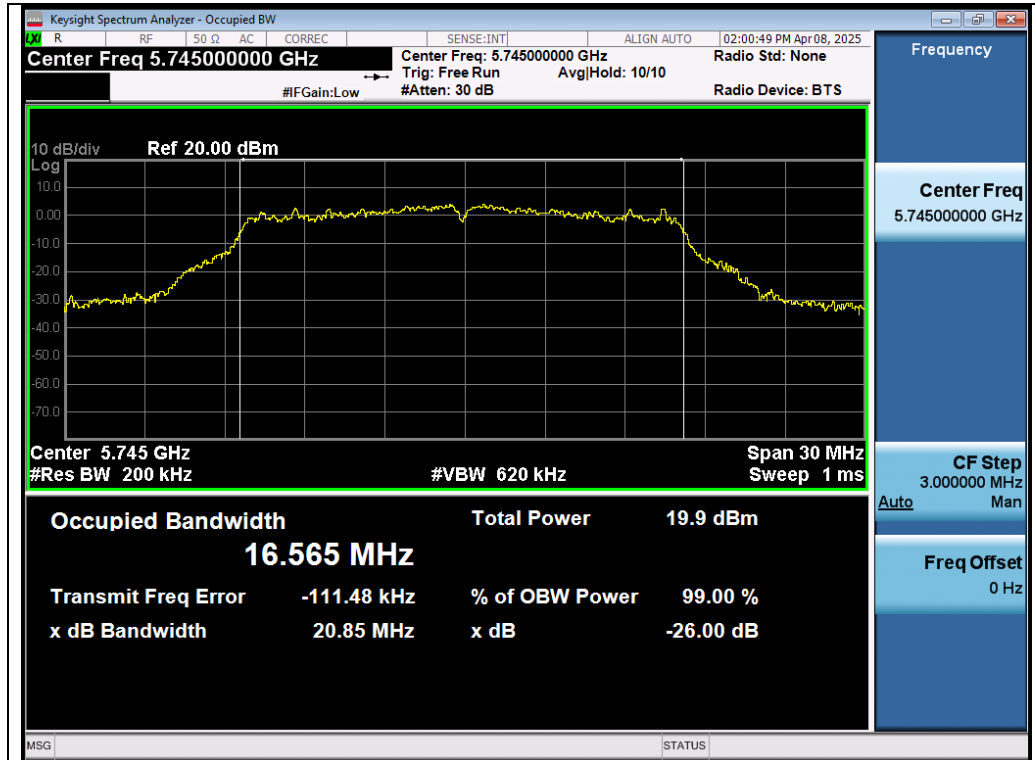
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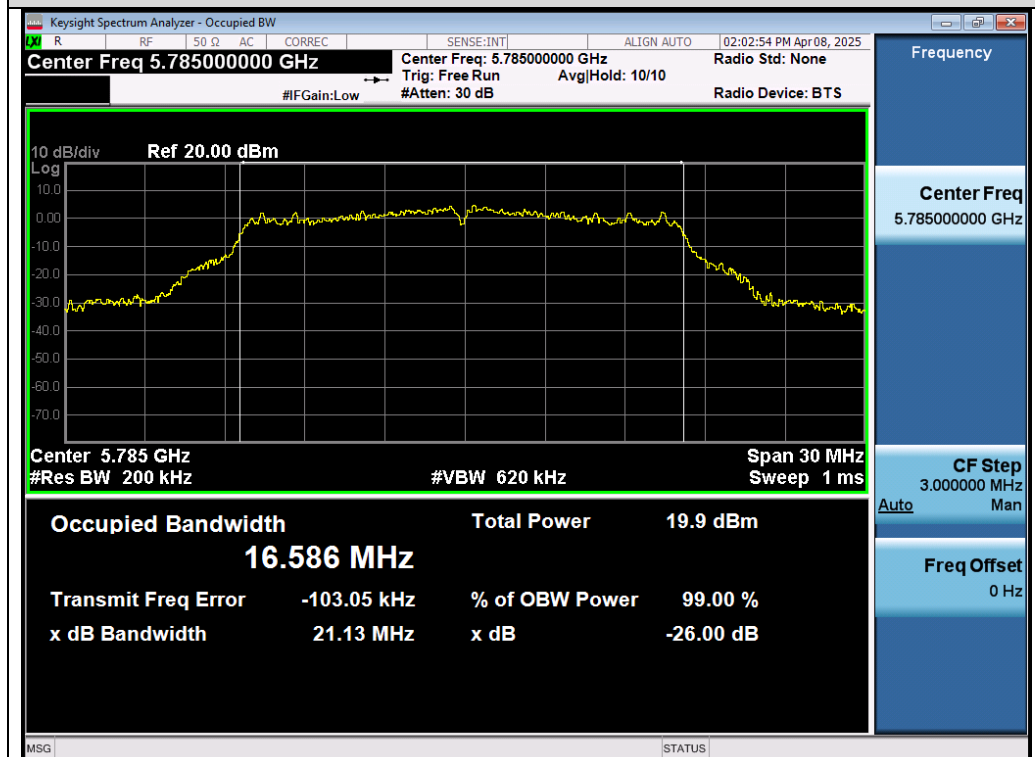
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz

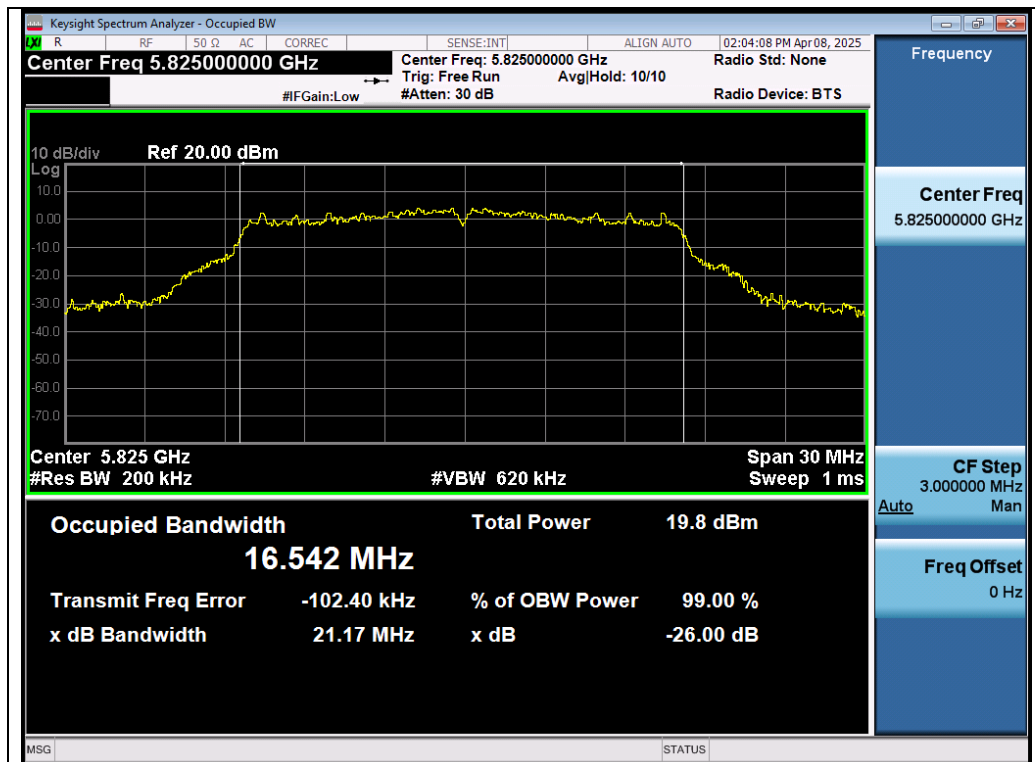


Test_Graph_802.11a_ANT1_5745_6Mbps_OBW

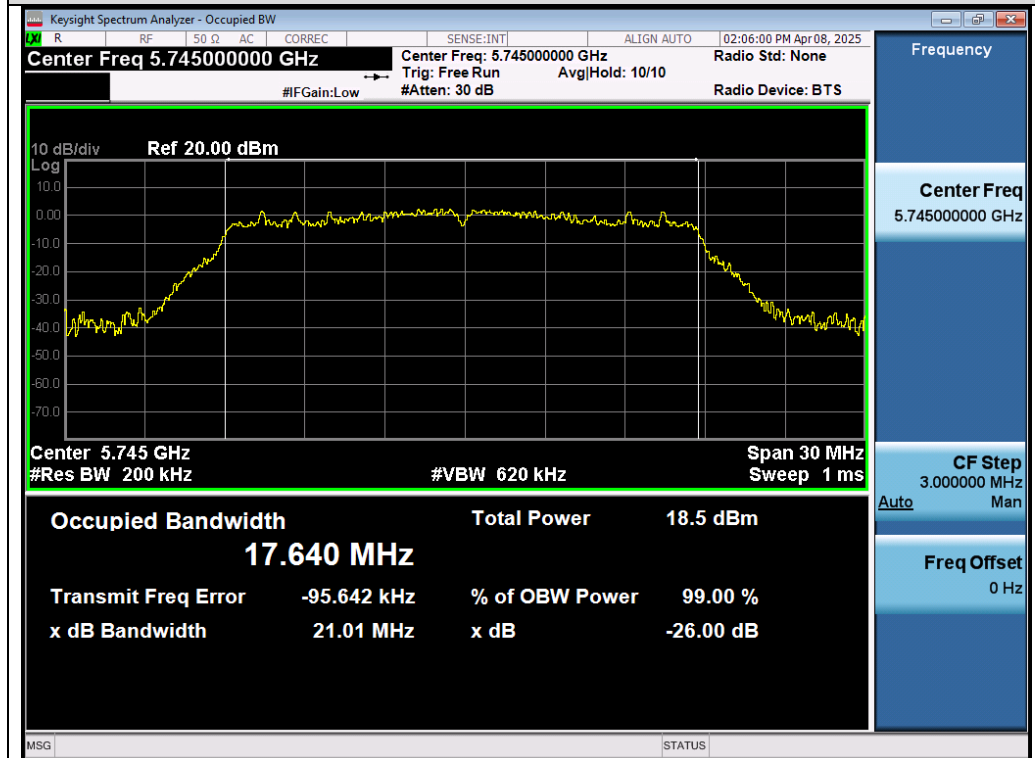


Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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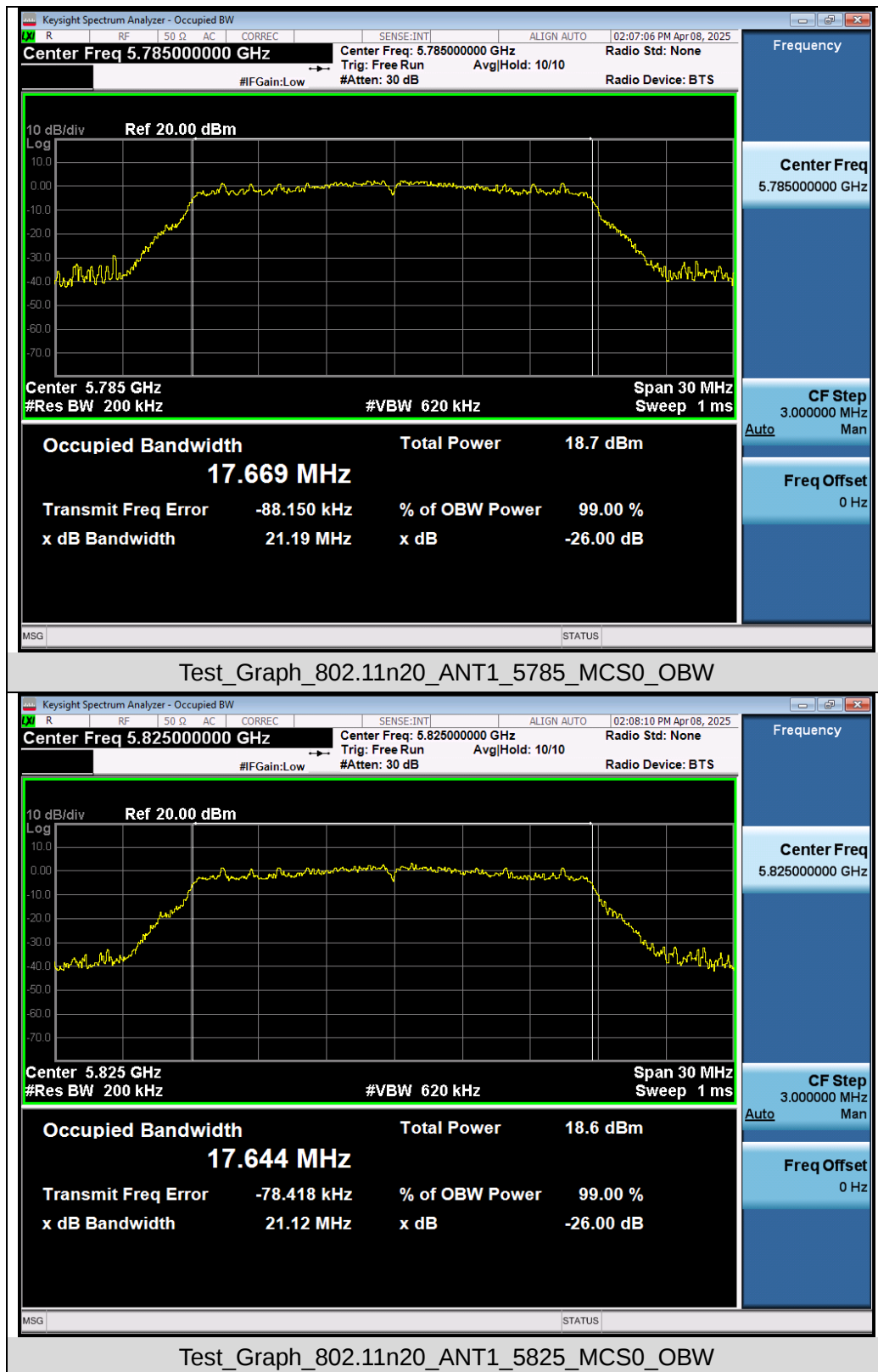


Test_Graph_802.11a_ANT1_5825_6Mbps_OBW



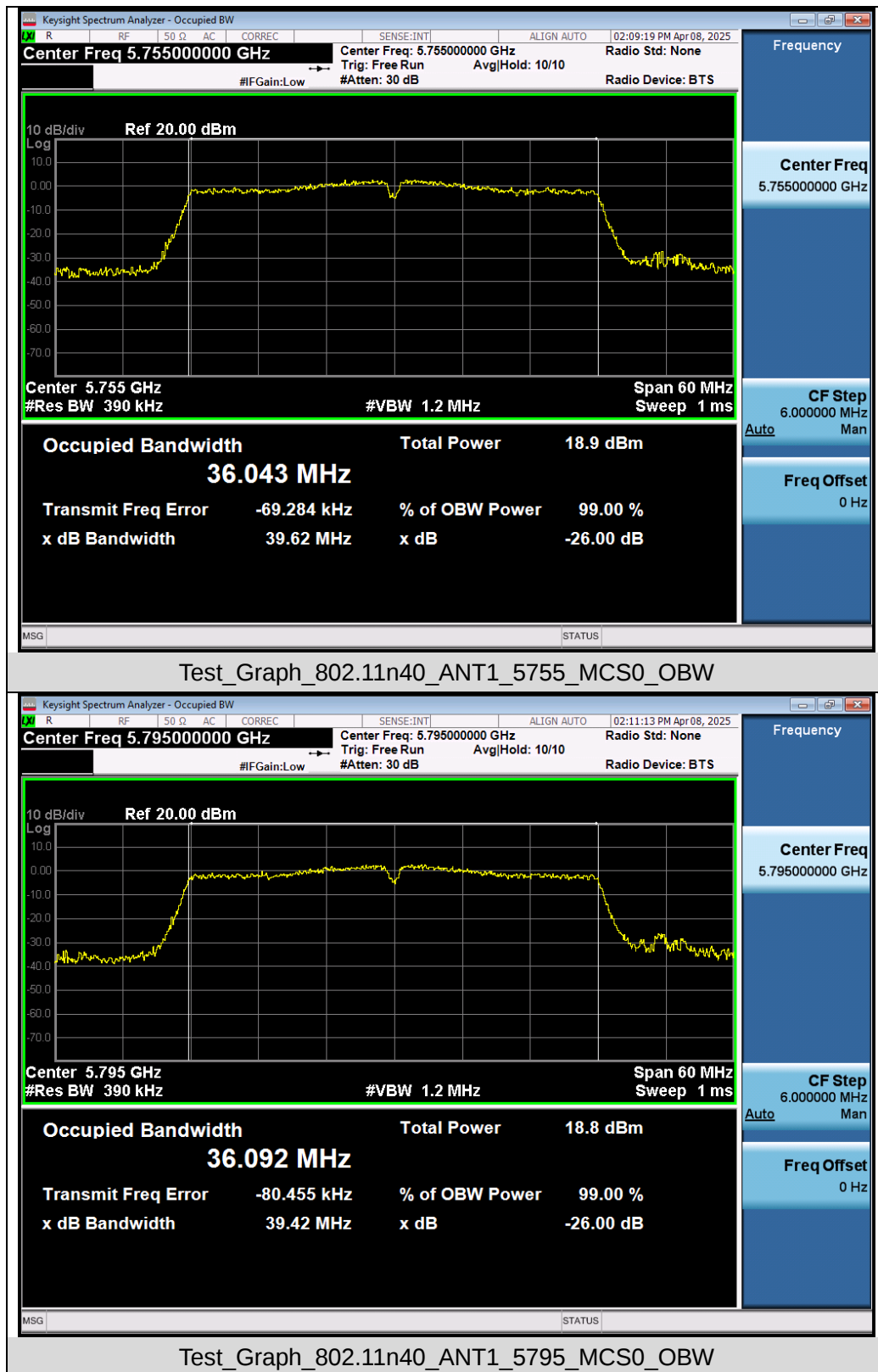
Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

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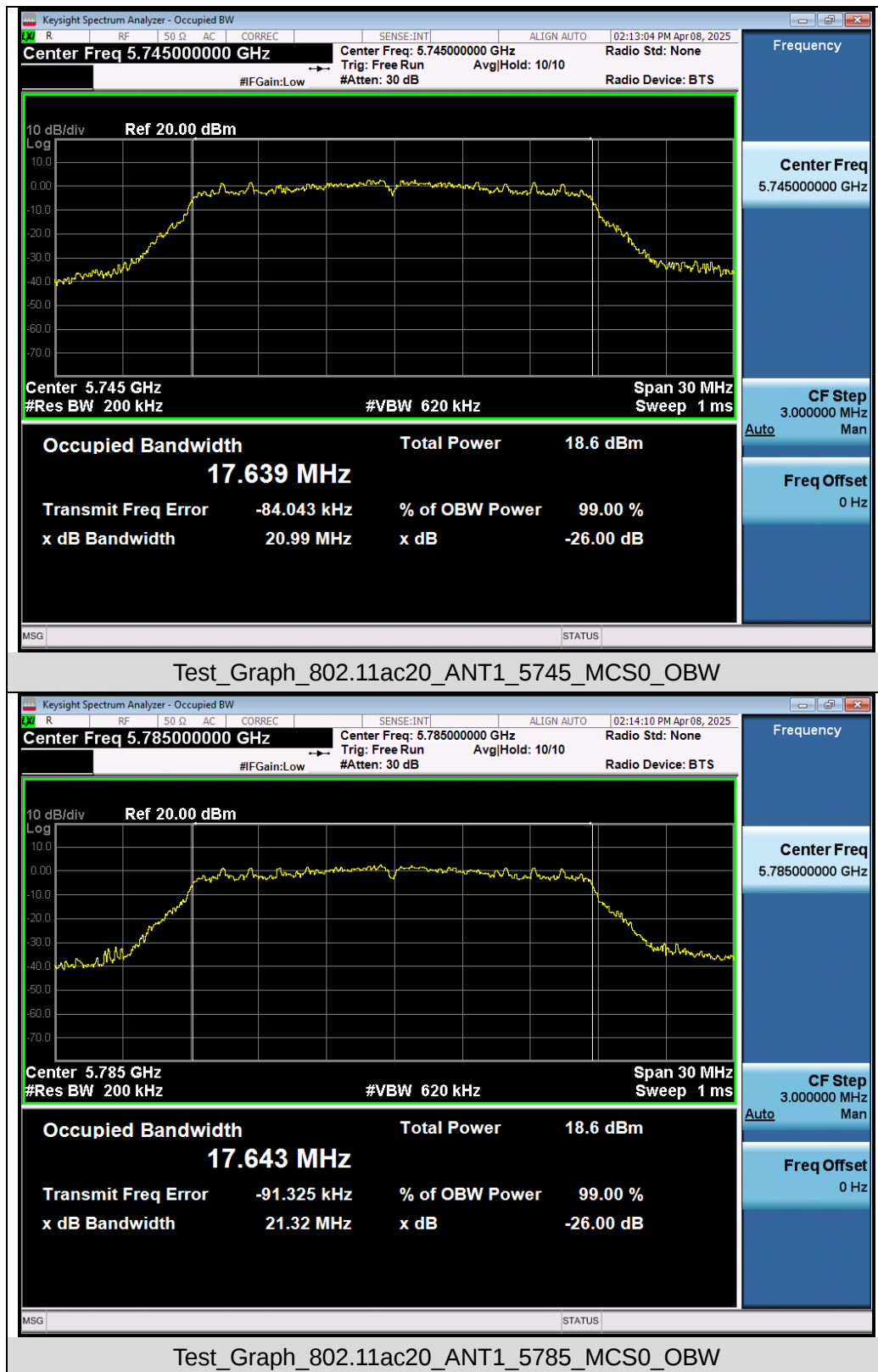


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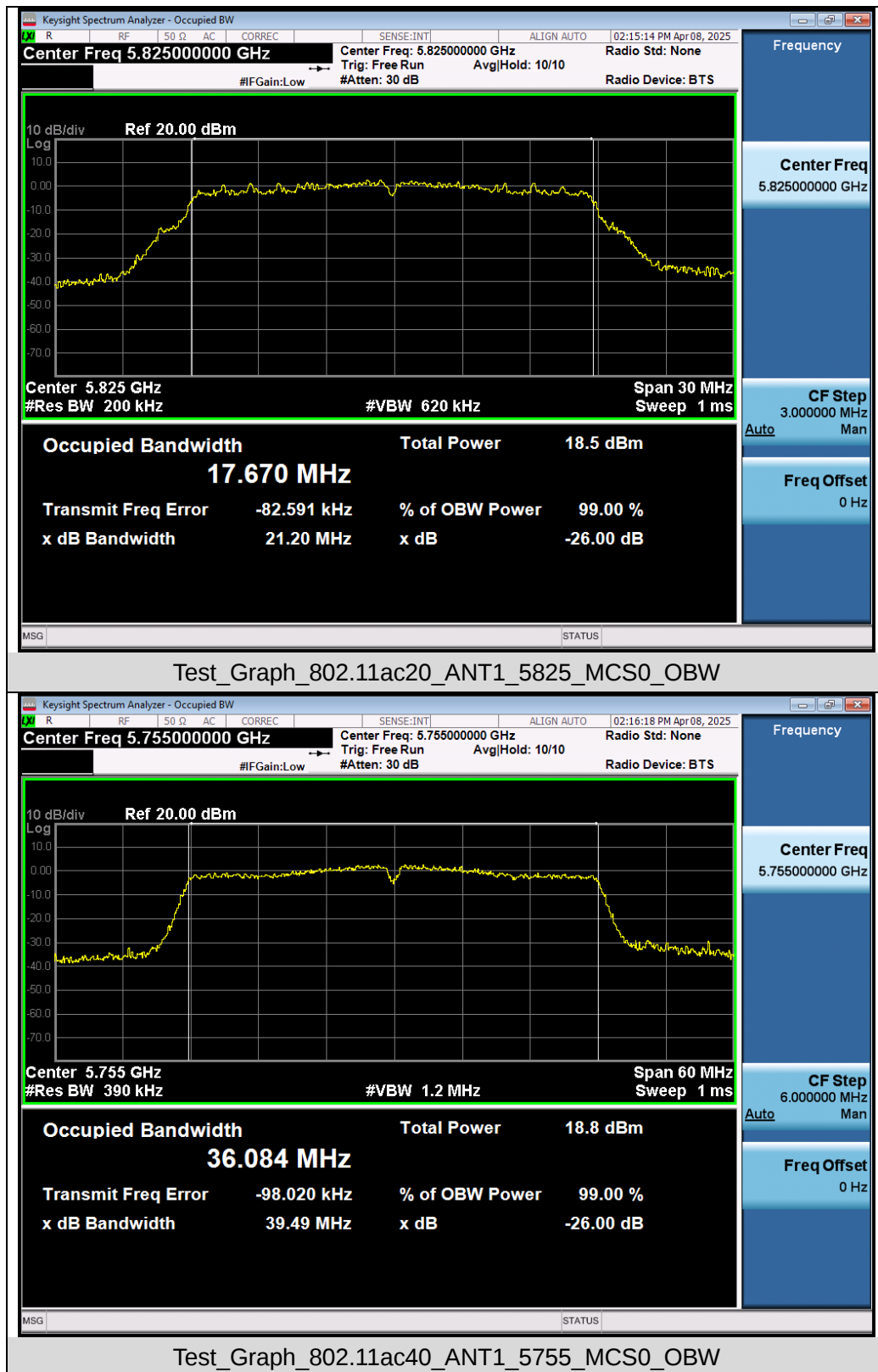
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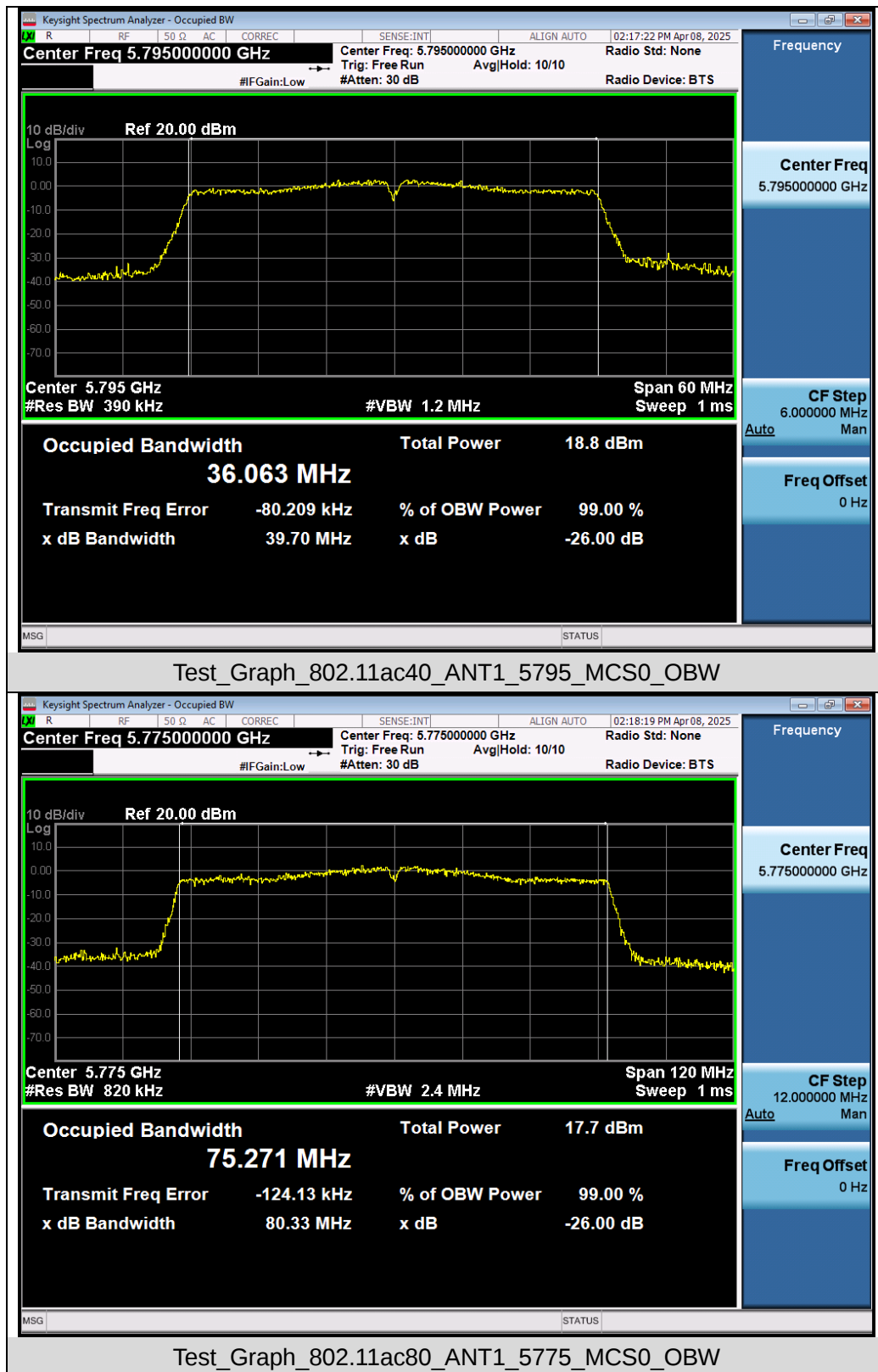
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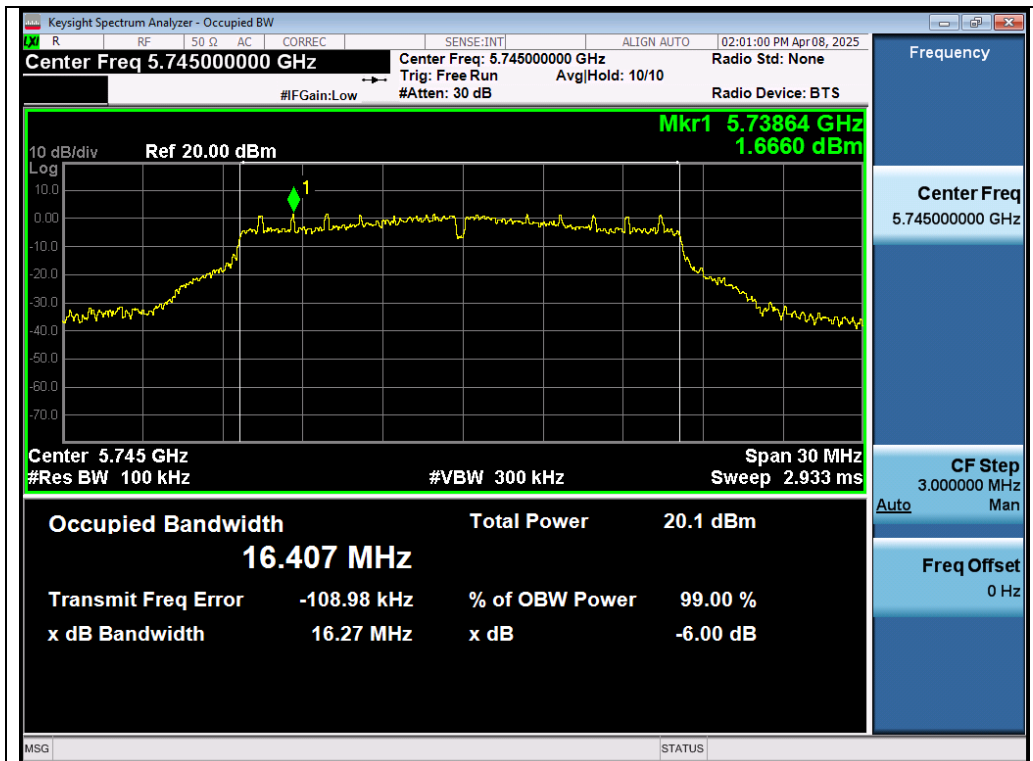


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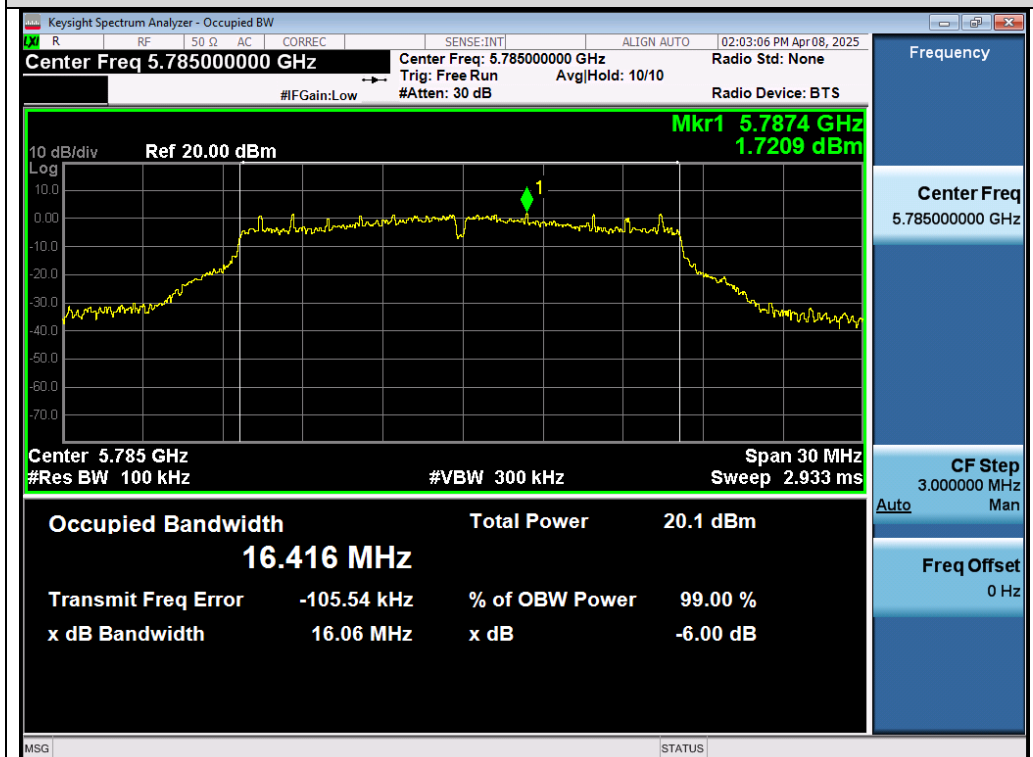


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

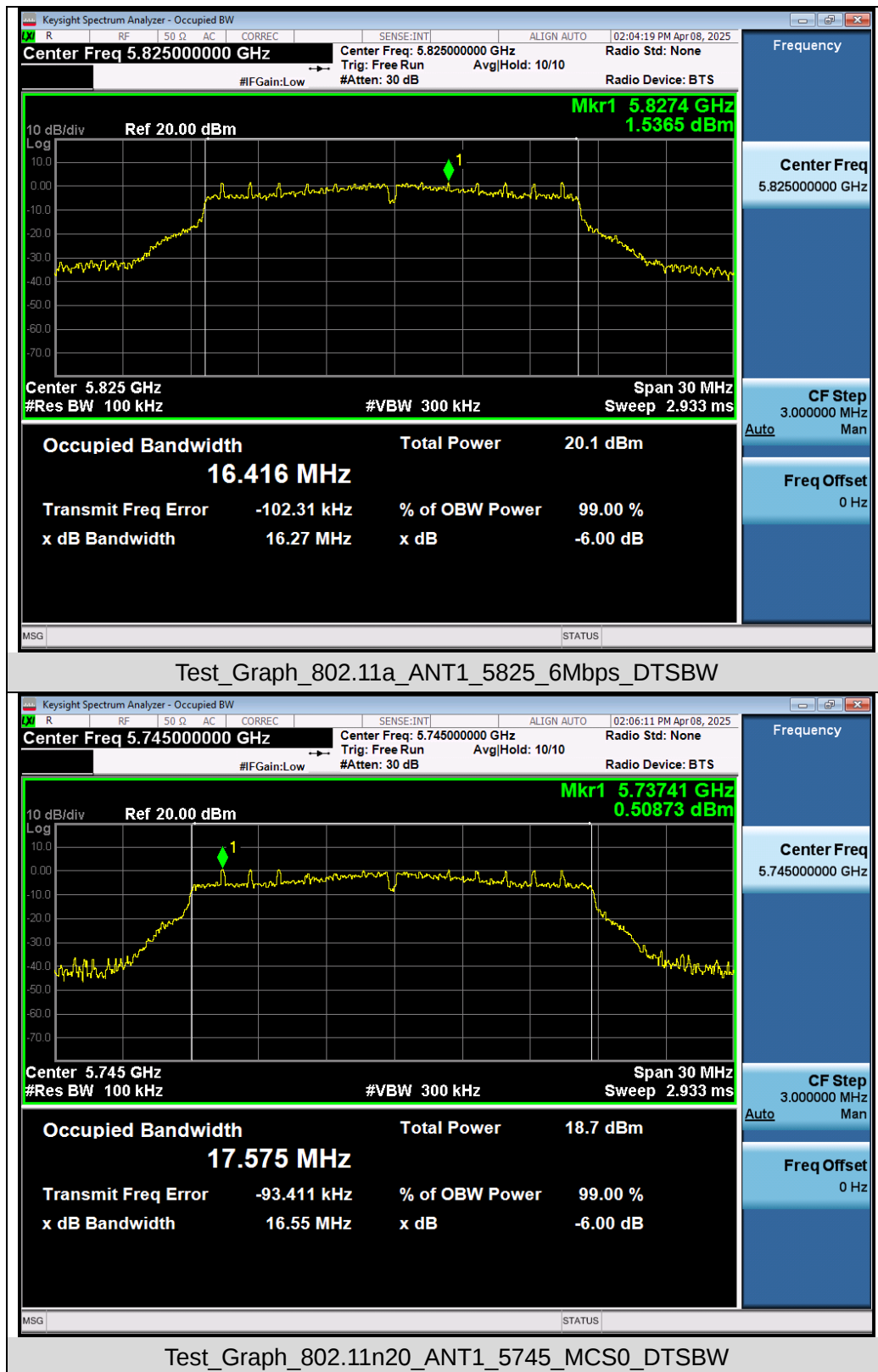


Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



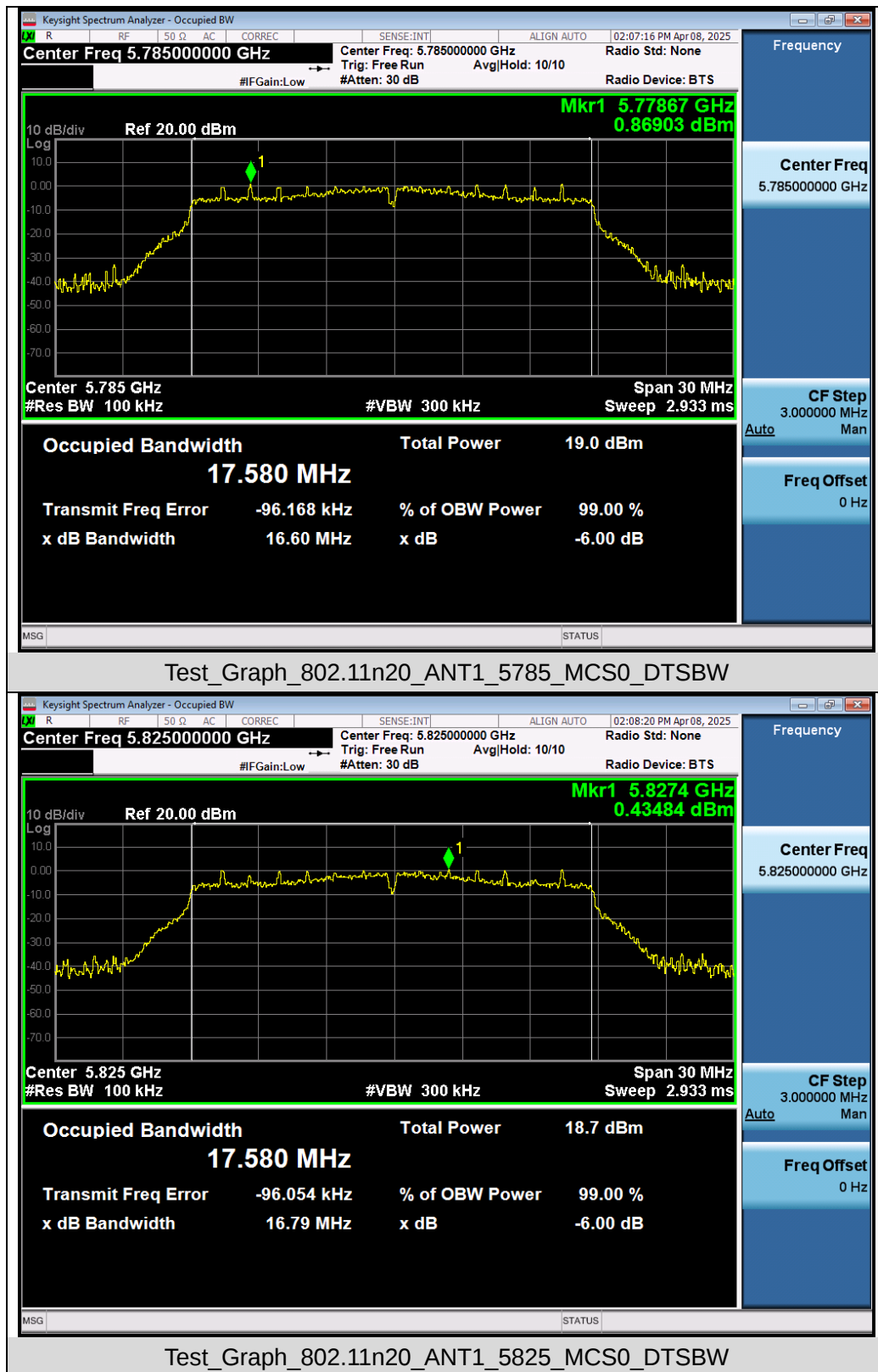
Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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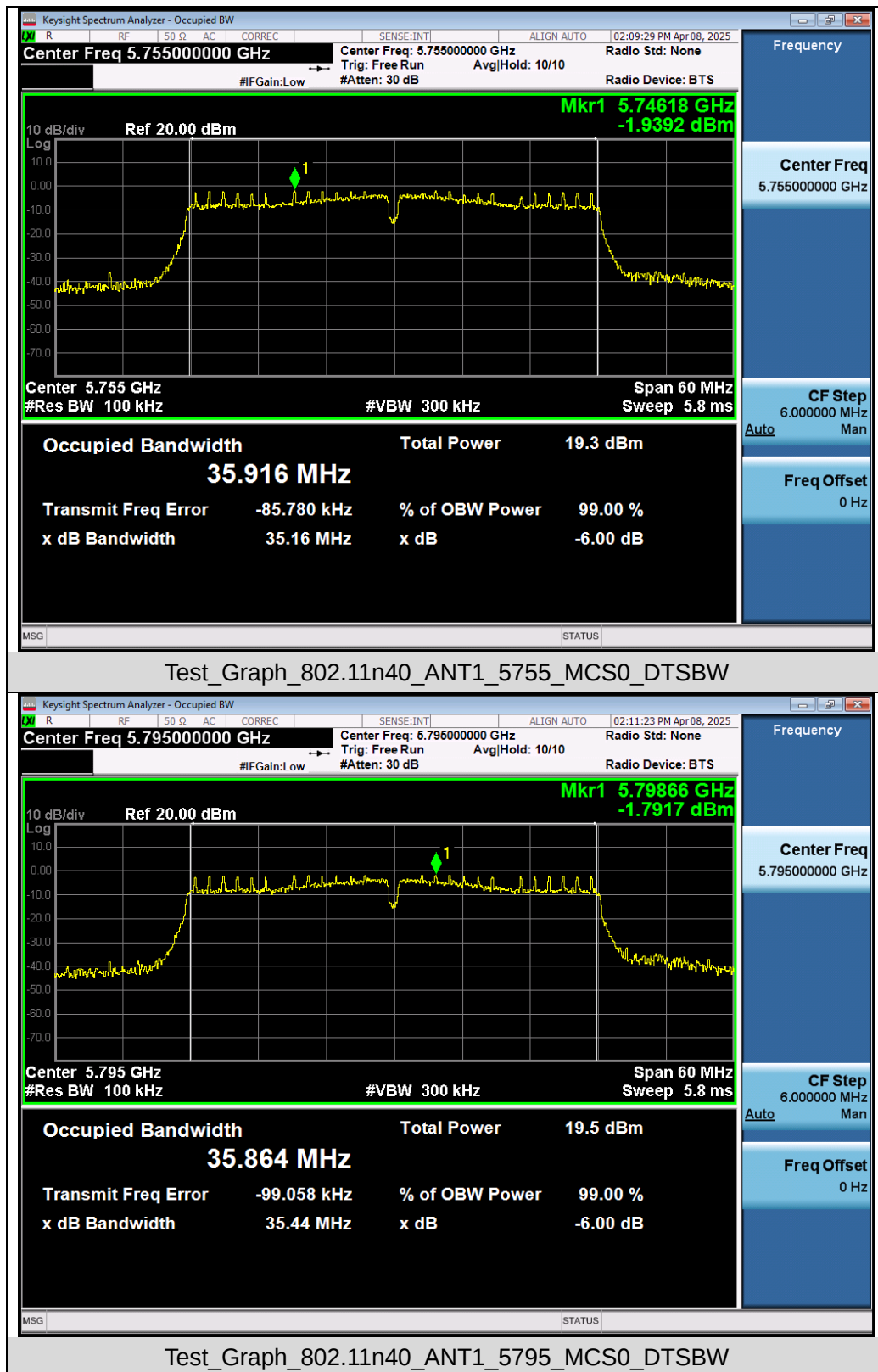
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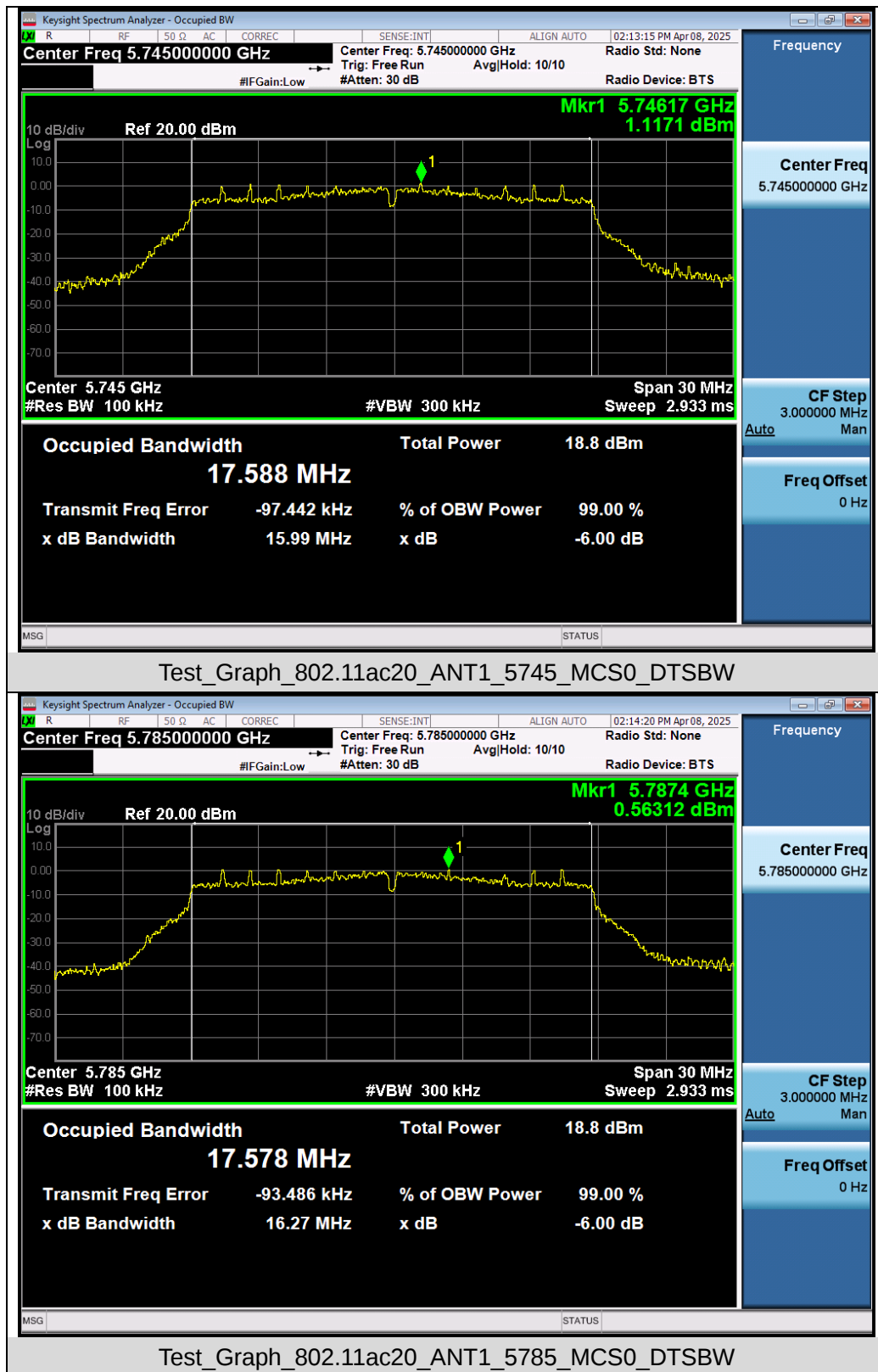


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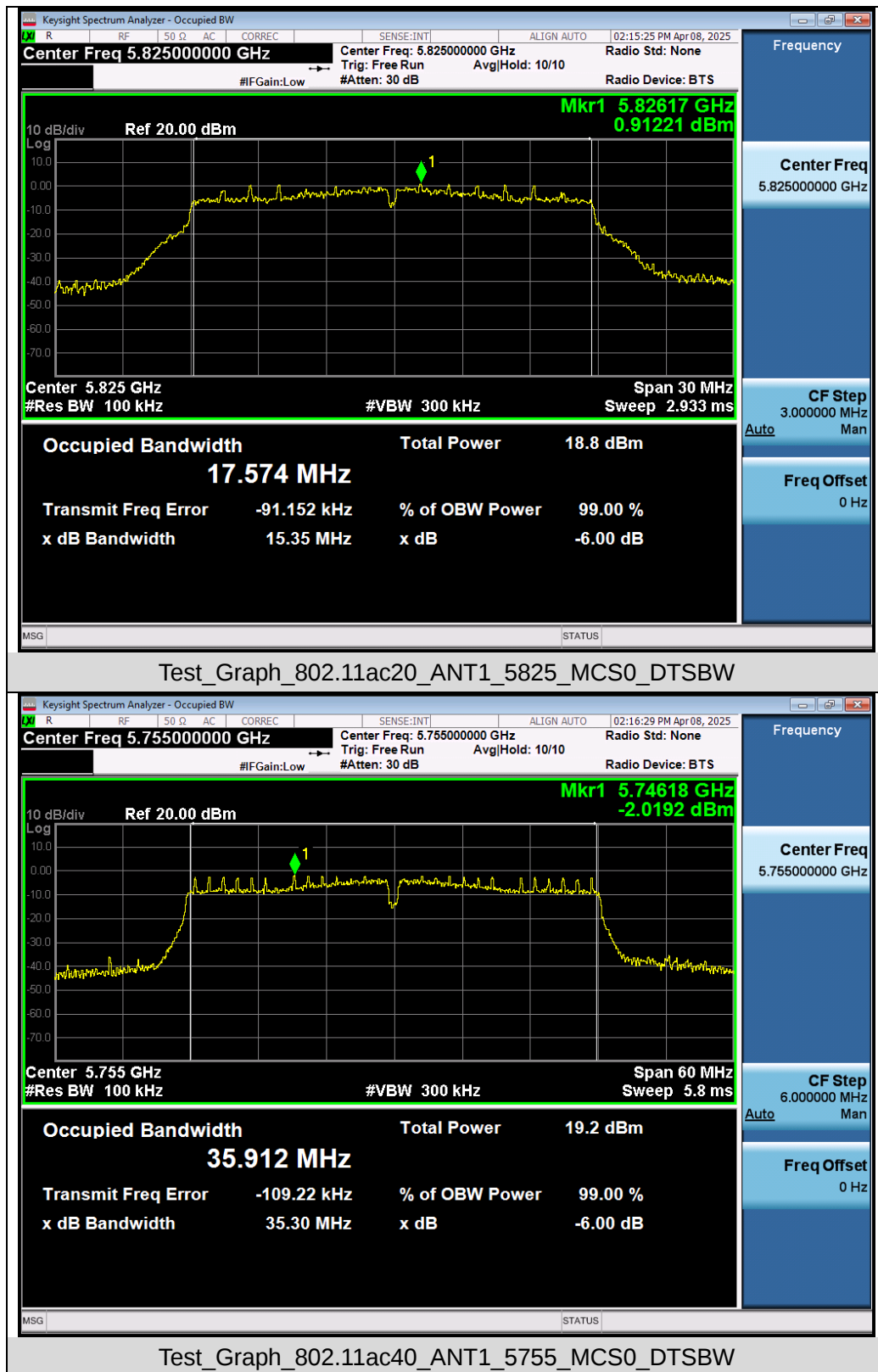


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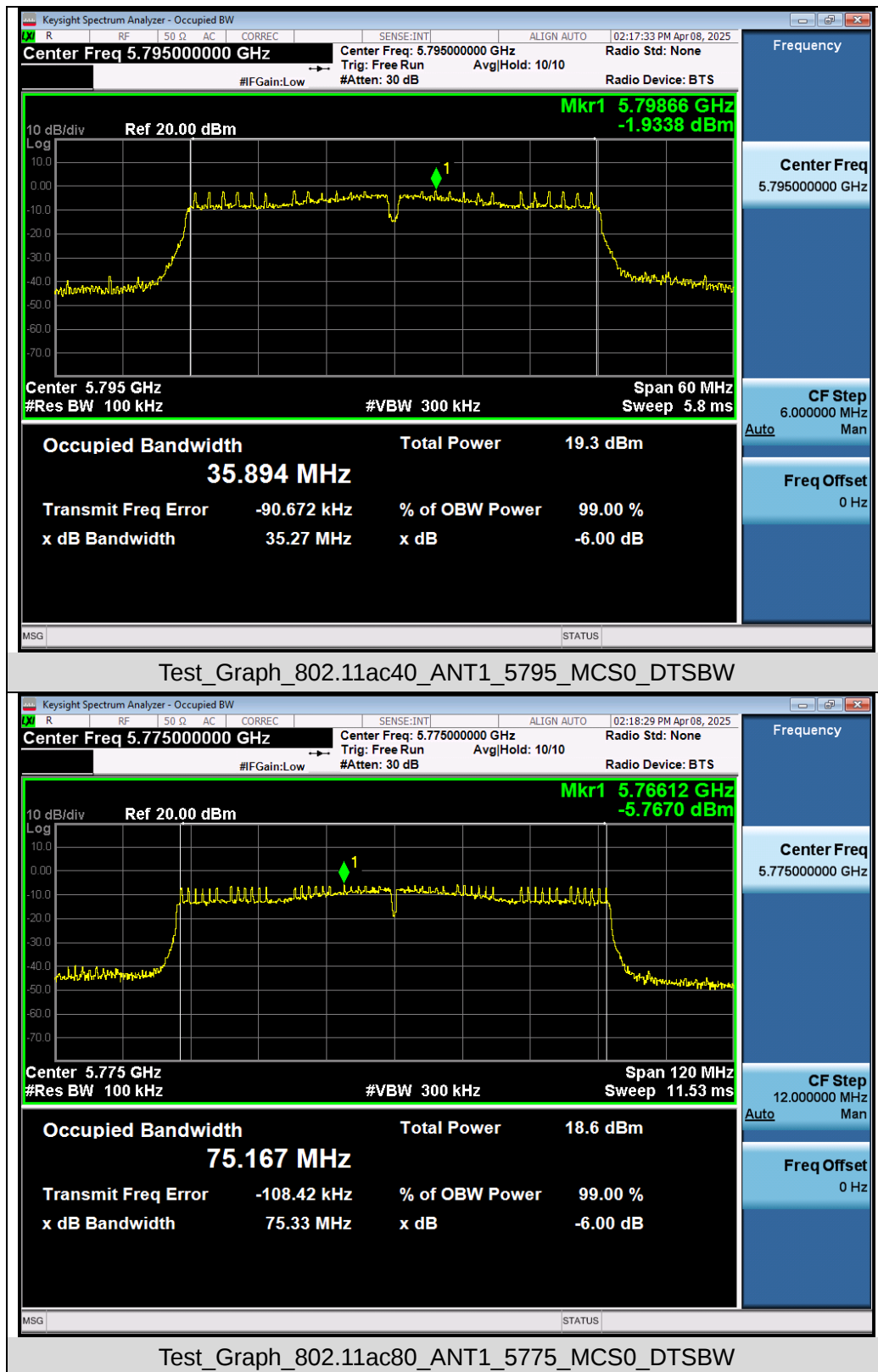
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9. Power Spectral Density Measurement

9.1 Provisions Applicable

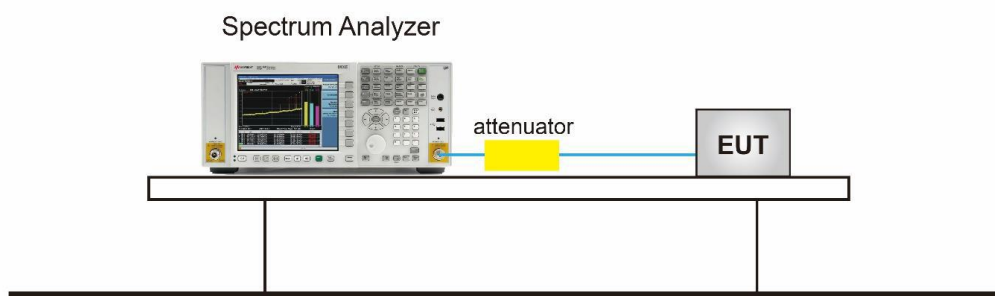
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	4.164	11	Pass
	5200	4.050	11	Pass
	5240	4.229	11	Pass
802.11n20	5180	2.415	11	Pass
	5200	2.390	11	Pass
	5240	2.553	11	Pass
802.11n40	5190	-0.559	11	Pass
	5230	-0.299	11	Pass
802.11ac20	5180	2.399	11	Pass
	5200	2.548	11	Pass
	5240	2.602	11	Pass
802.11ac40	5190	-0.423	11	Pass
	5230	-0.045	11	Pass
802.11ac80	5210	-3.977	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	4.271	11	Pass
	5300	4.129	11	Pass
	5320	4.094	11	Pass
802.11n20	5260	2.567	11	Pass
	5300	2.299	11	Pass
	5320	2.384	11	Pass
802.11n40	5270	-0.408	11	Pass
	5310	-0.313	11	Pass
802.11ac20	5260	2.563	11	Pass
	5300	2.476	11	Pass
	5320	2.459	11	Pass
802.11ac40	5270	-0.505	11	Pass
	5310	-0.339	11	Pass
802.11ac80	5290	-4.221	11	Pass

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Test Data of Conducted Output Power Density for band 5.470-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	1.761	11	Pass
	5600	2.194	11	Pass
	5700	1.675	11	Pass
802.11n20	5500	1.375	11	Pass
	5600	1.551	11	Pass
	5700	0.928	11	Pass
802.11n40	5510	-1.730	11	Pass
	5590	-1.325	11	Pass
	5670	-1.867	11	Pass
802.11ac20	5500	1.026	11	Pass
	5600	1.516	11	Pass
	5700	0.802	11	Pass
802.11ac40	5510	-1.577	11	Pass
	5590	-1.519	11	Pass
	5670	-1.571	11	Pass
802.11ac80	5530	-5.749	11	Pass
	5610	-5.442	11	Pass

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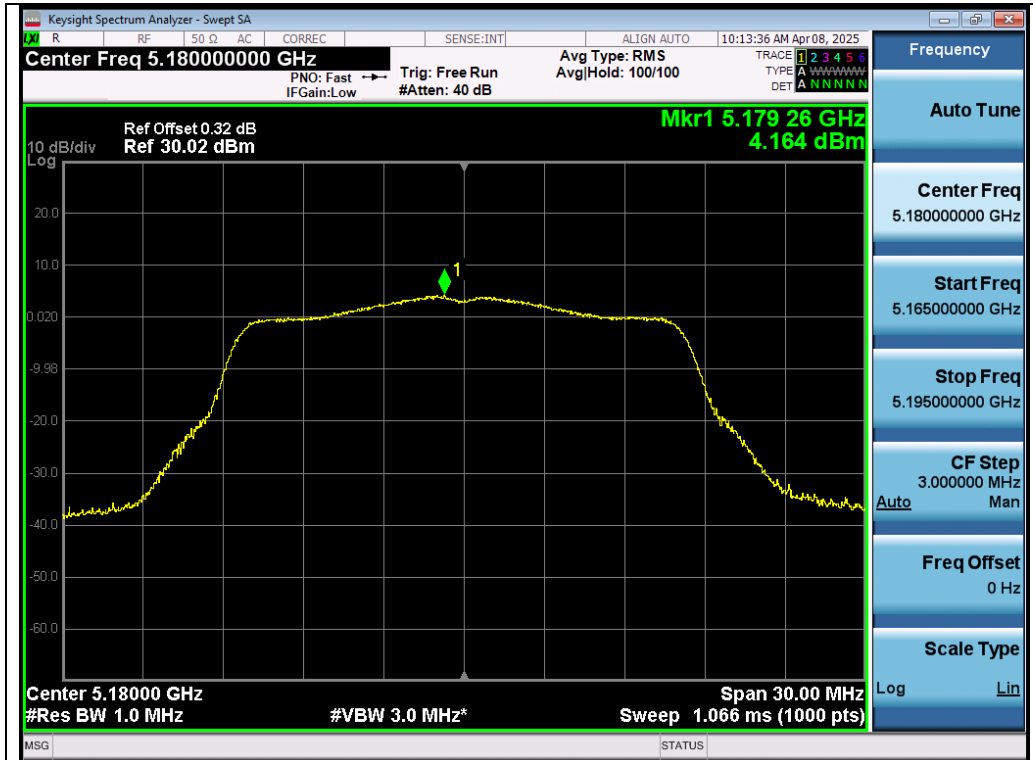
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-4.487	2.503	30	Pass
	5785	-4.548	2.442	30	Pass
	5825	-4.543	2.447	30	Pass
802.11n20	5745	-6.535	0.455	30	Pass
	5785	-6.293	0.697	30	Pass
	5825	-6.606	0.384	30	Pass
802.11n40	5755	-9.852	-2.862	30	Pass
	5795	-9.556	-2.566	30	Pass
802.11ac20	5745	-6.240	0.750	30	Pass
	5785	-6.428	0.562	30	Pass
	5825	-6.506	0.484	30	Pass
802.11ac40	5755	-9.875	-2.885	30	Pass
	5795	-9.572	-2.582	30	Pass
802.11ac80	5775	-13.726	-6.736	30	Pass

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

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

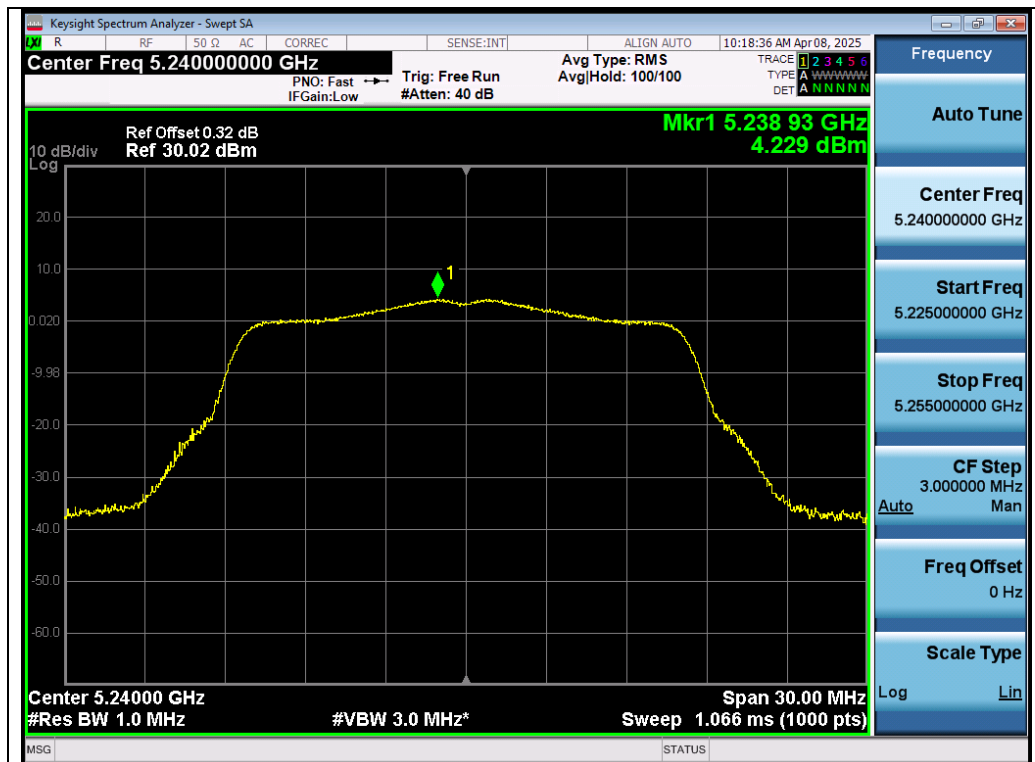


Test_Graph_802.11a_ANT1_5180_6Mbps_PSD



Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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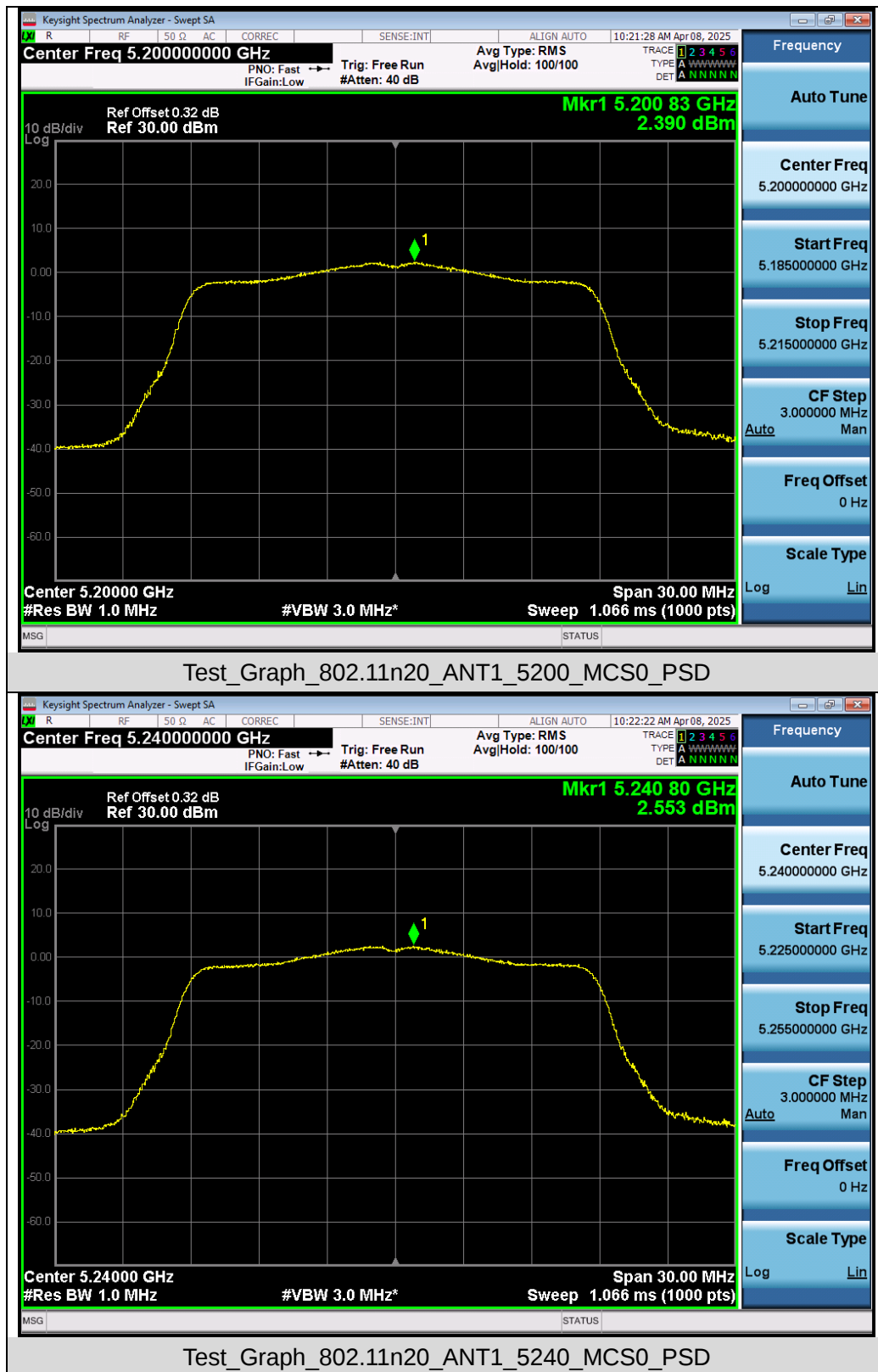


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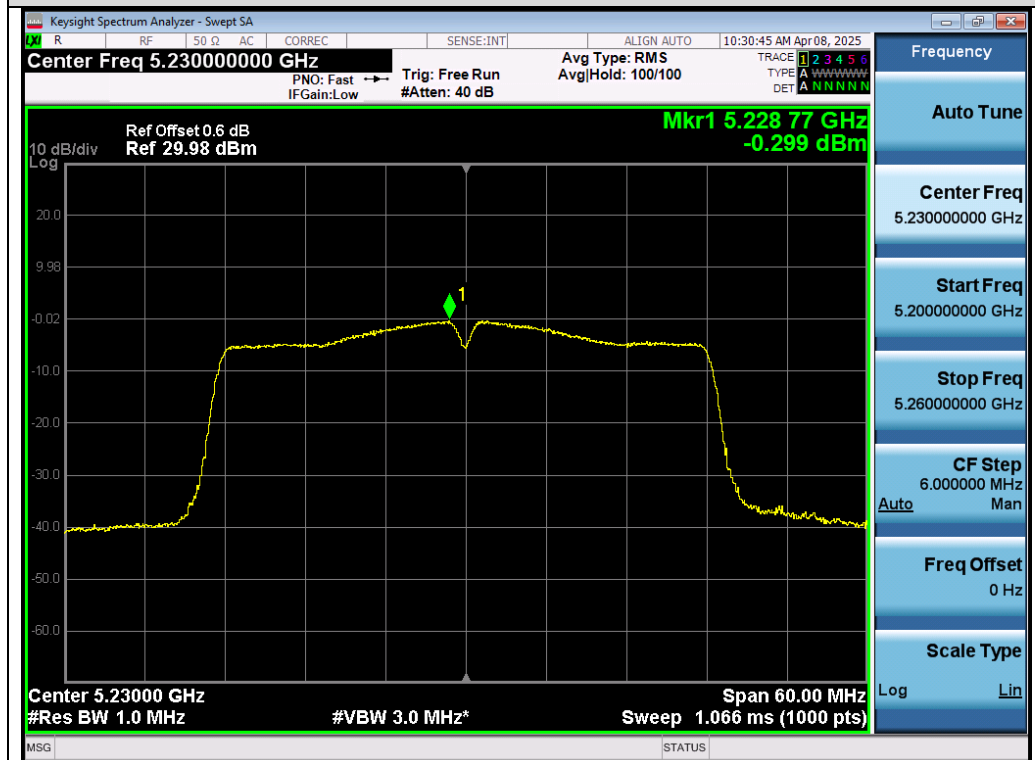
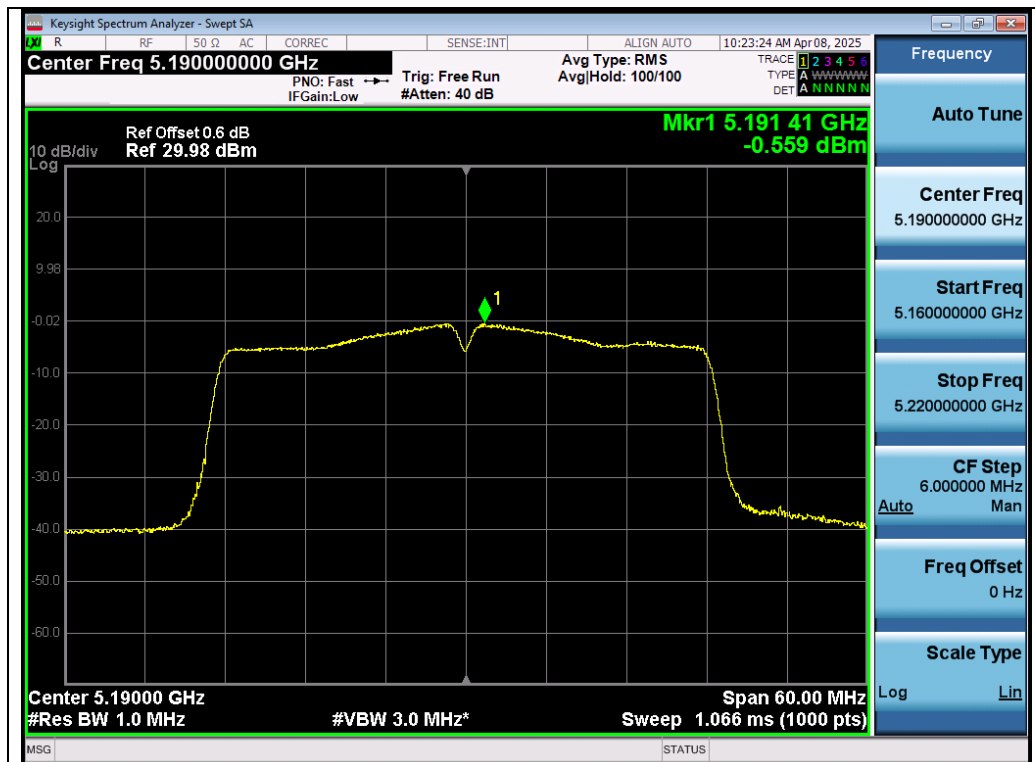
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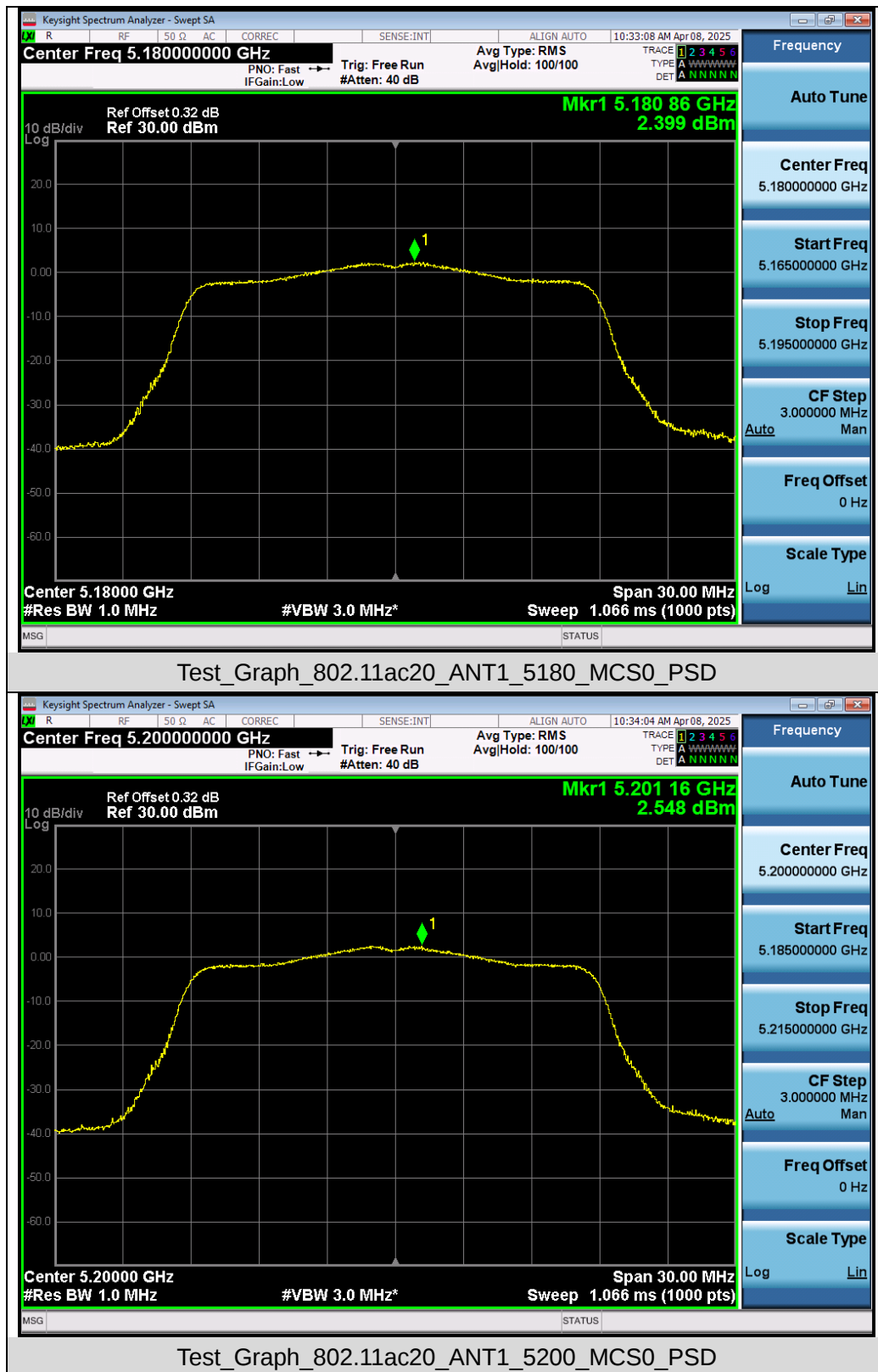
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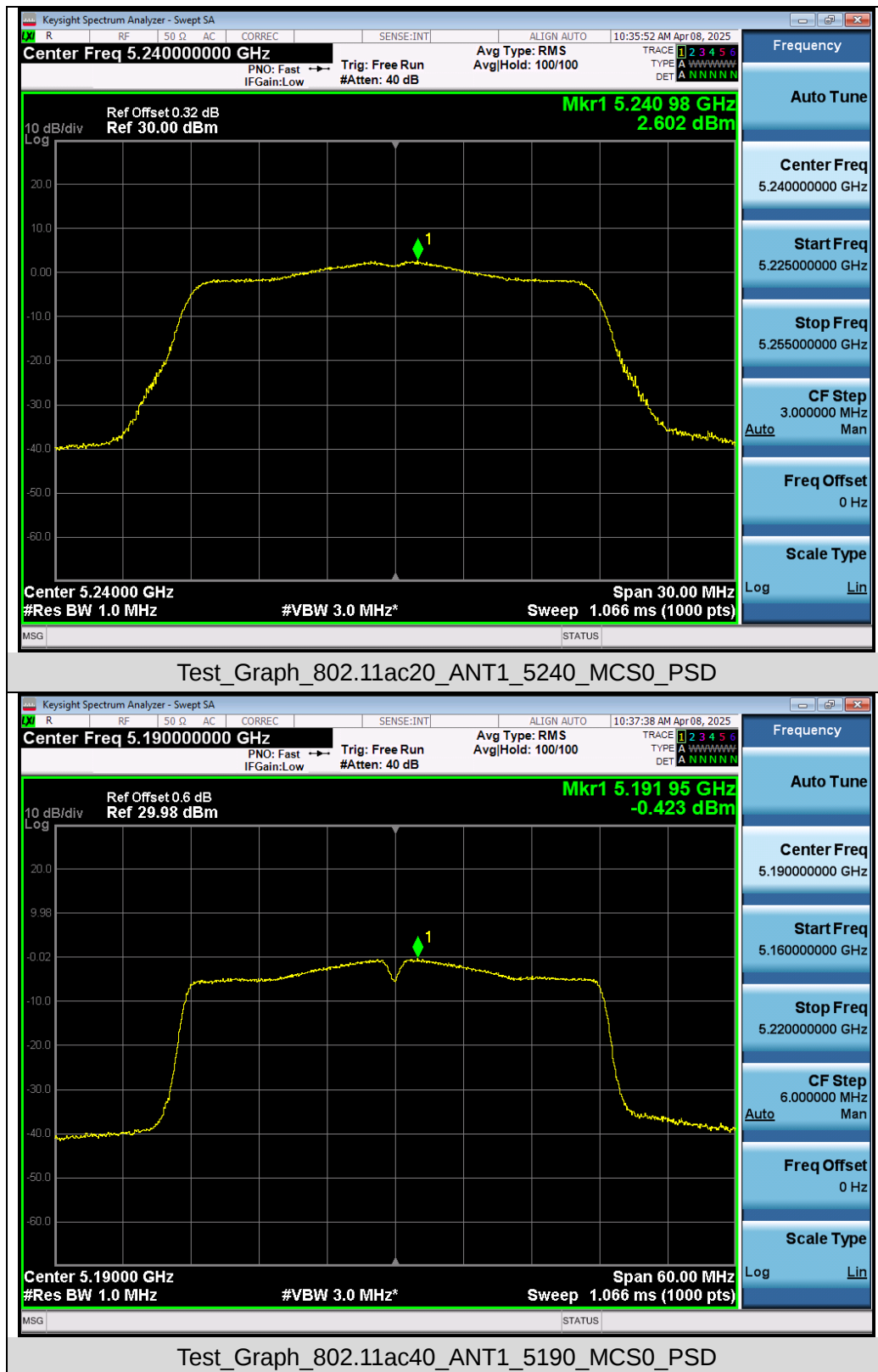
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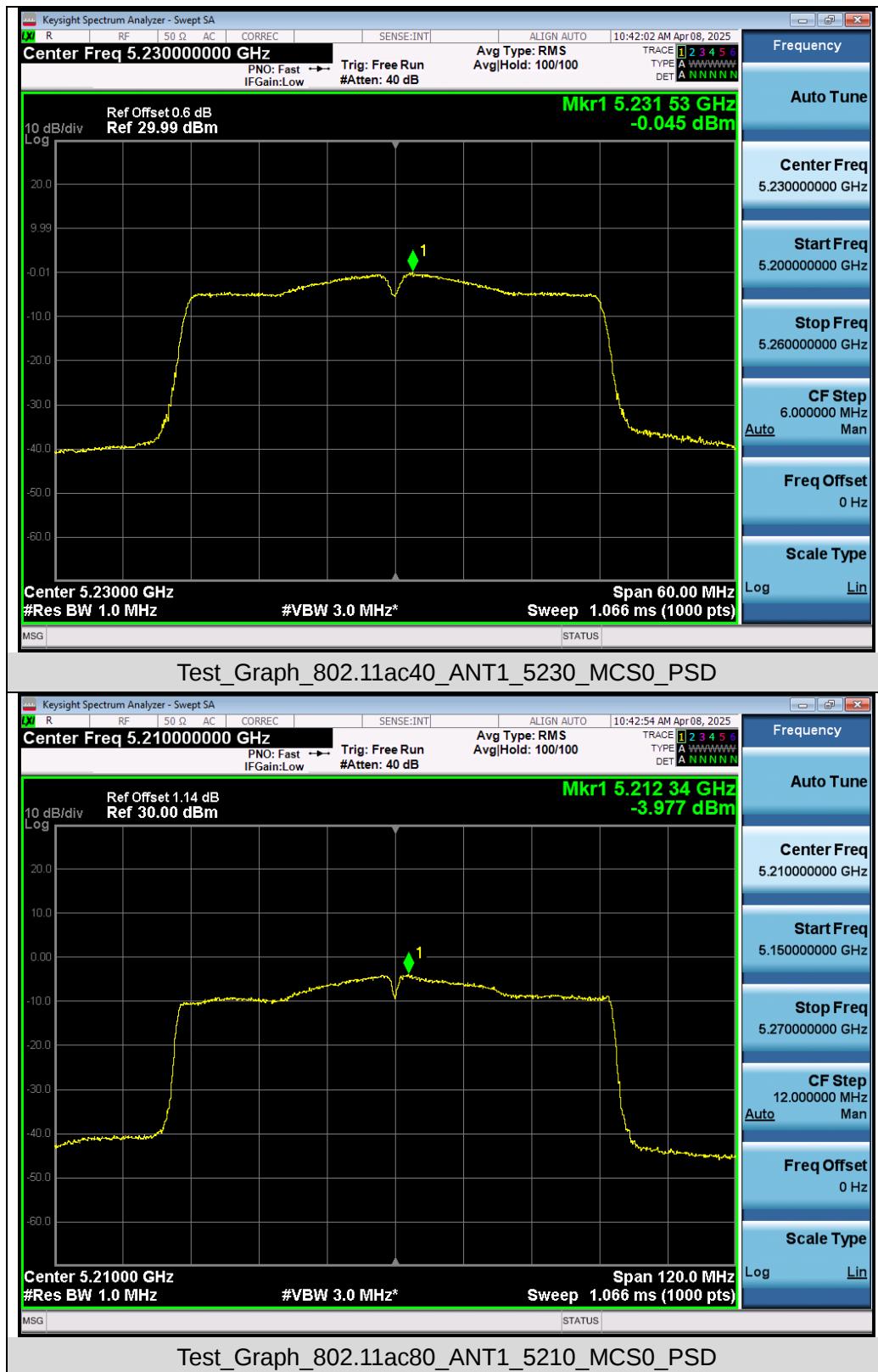


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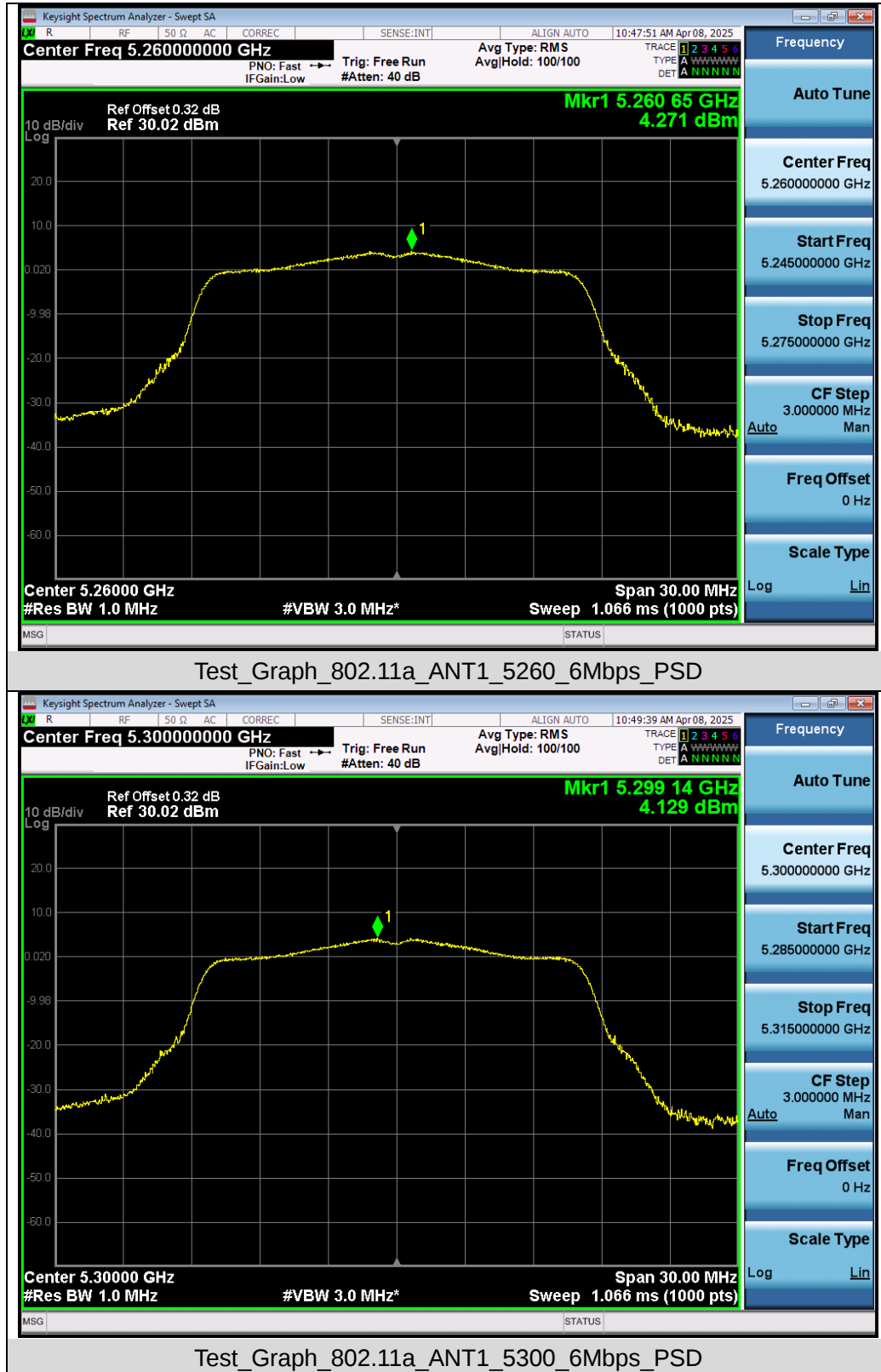
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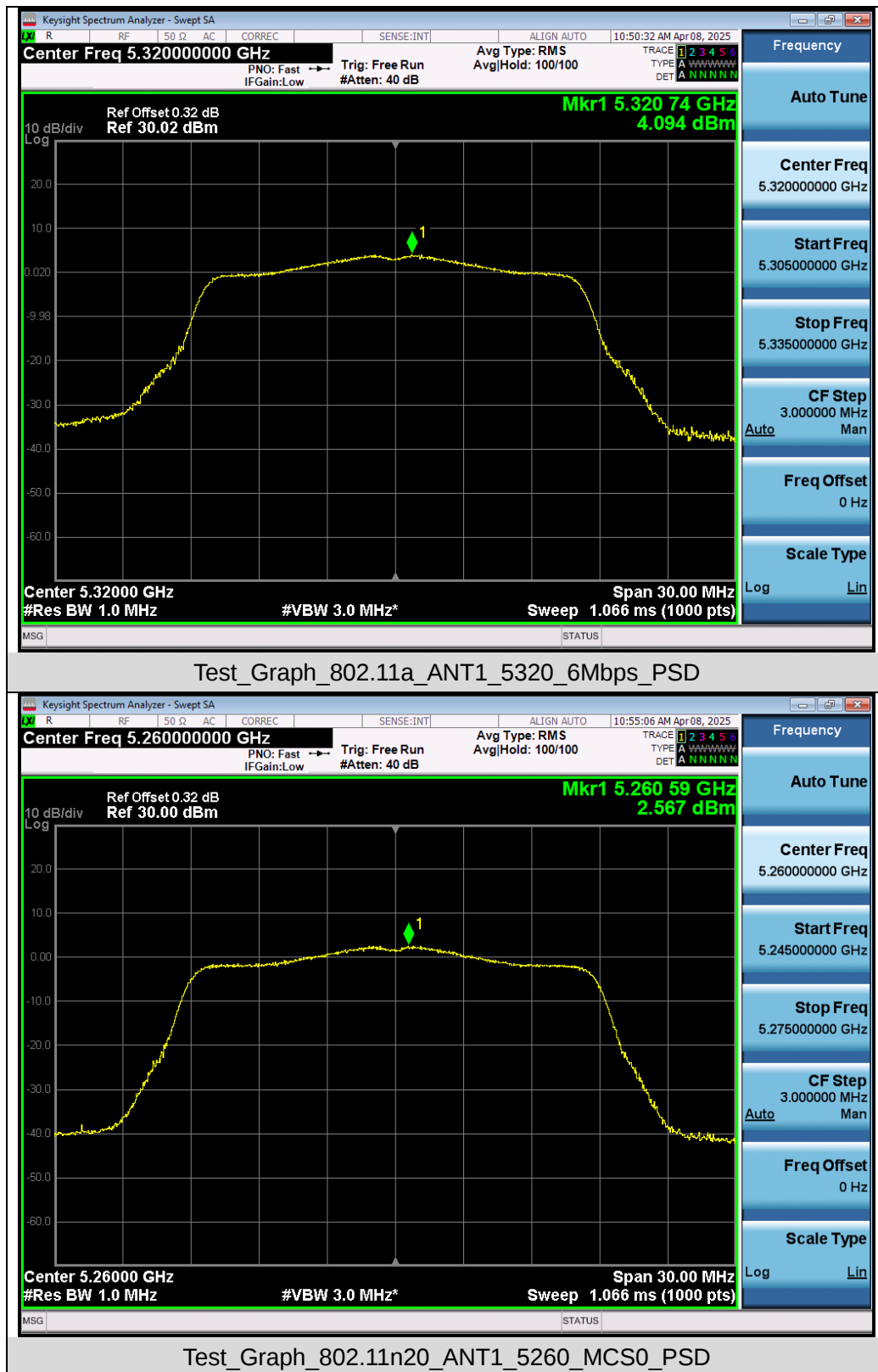
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

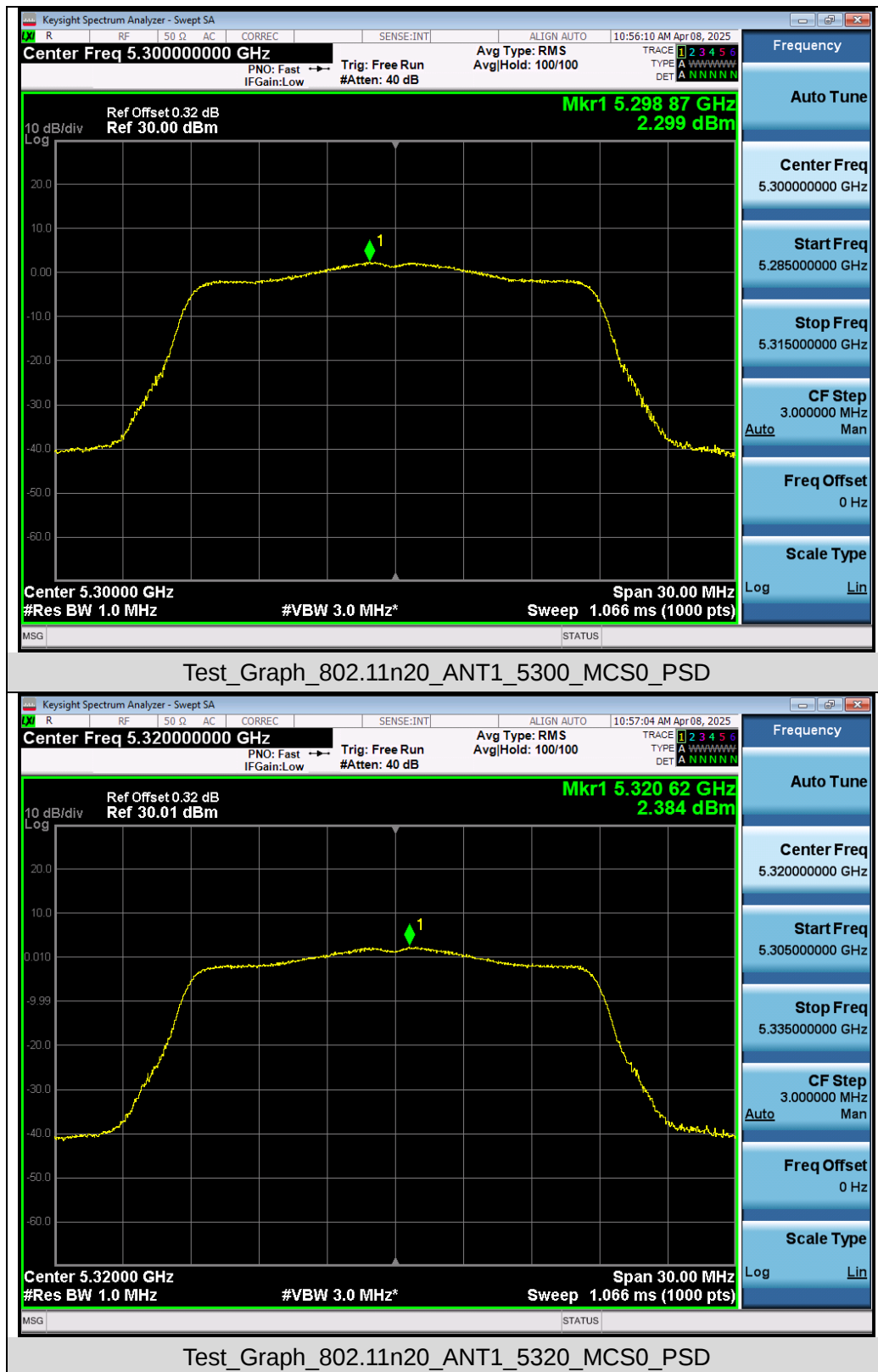


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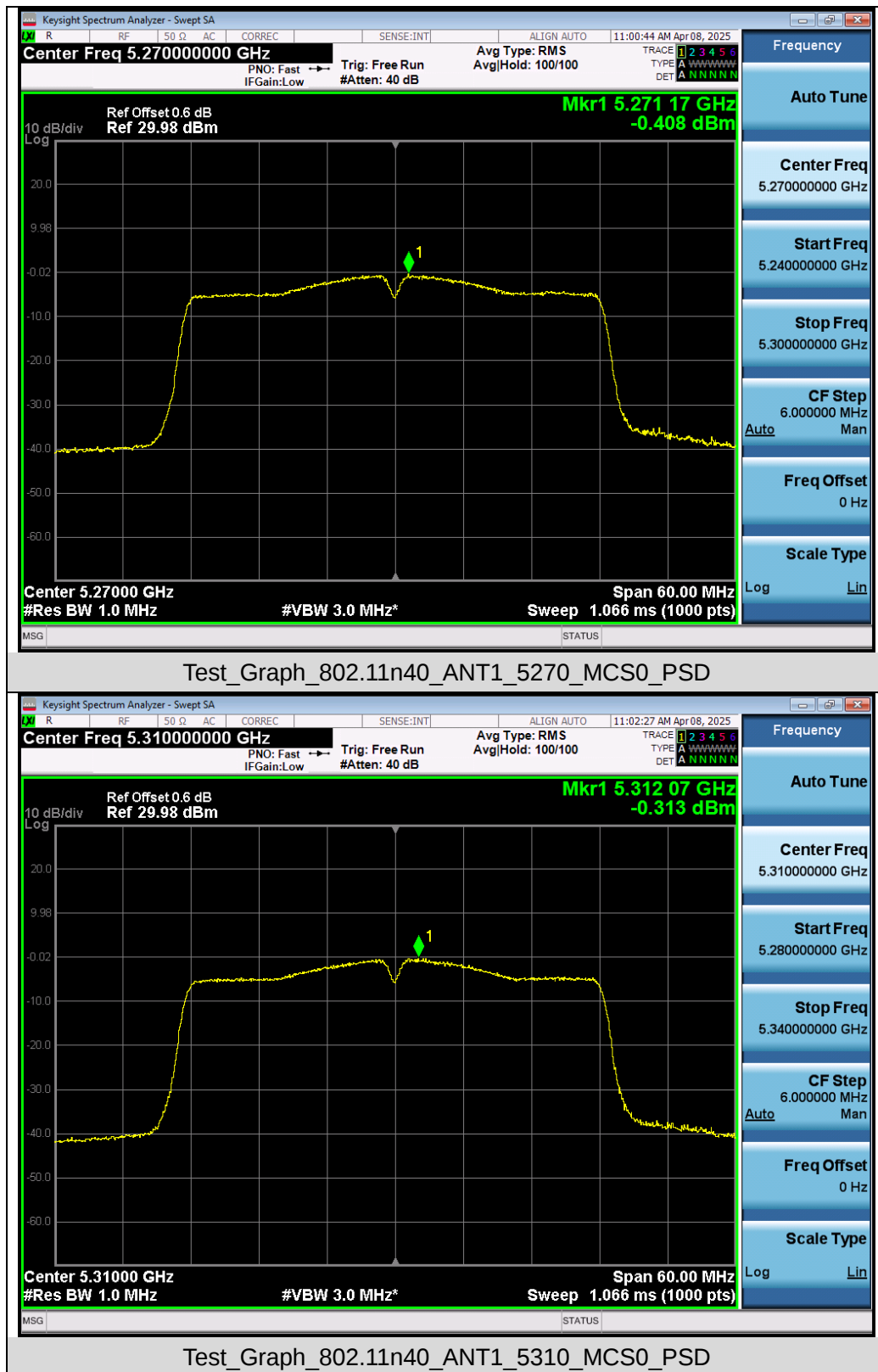
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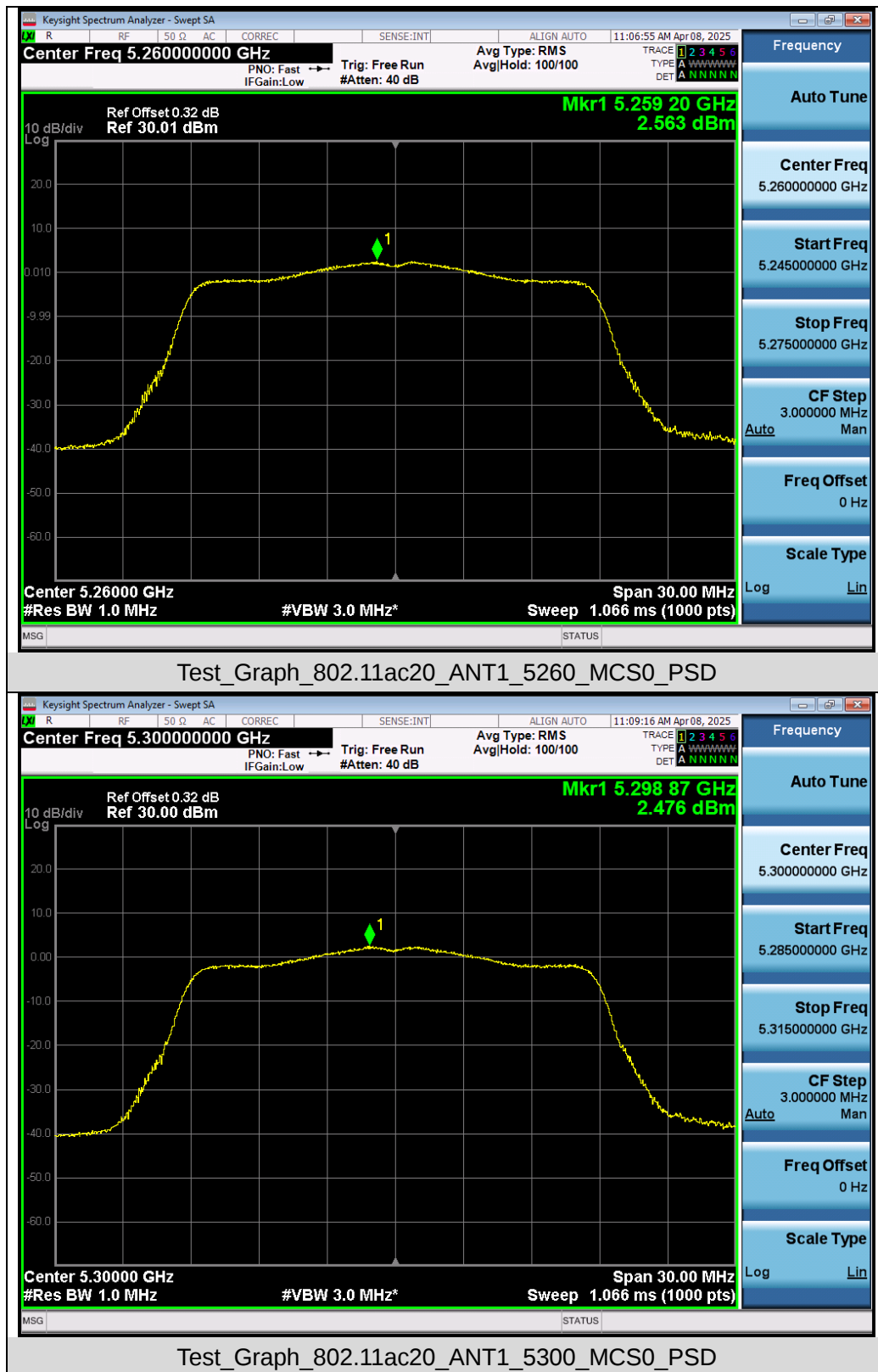
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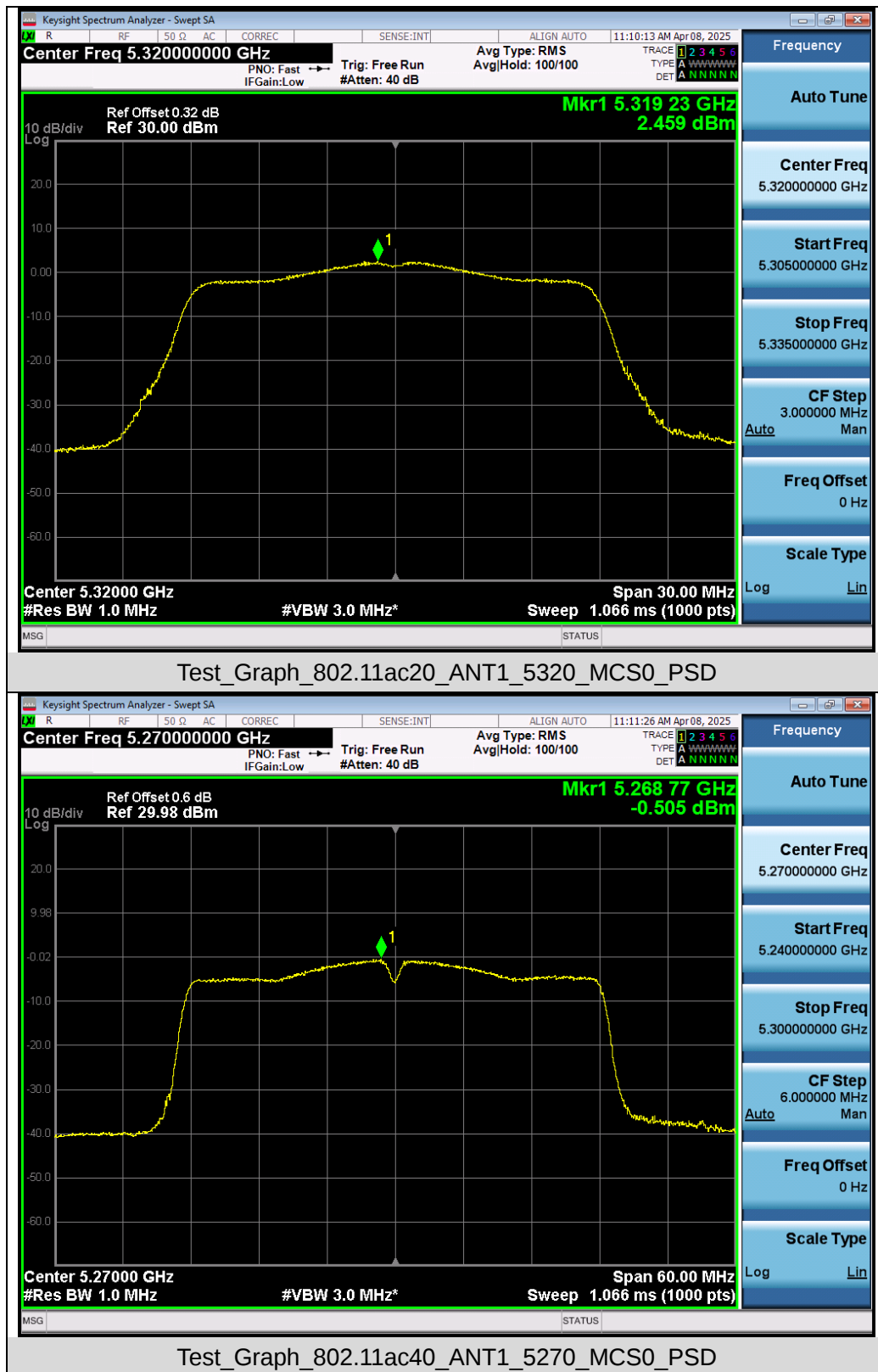
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Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz

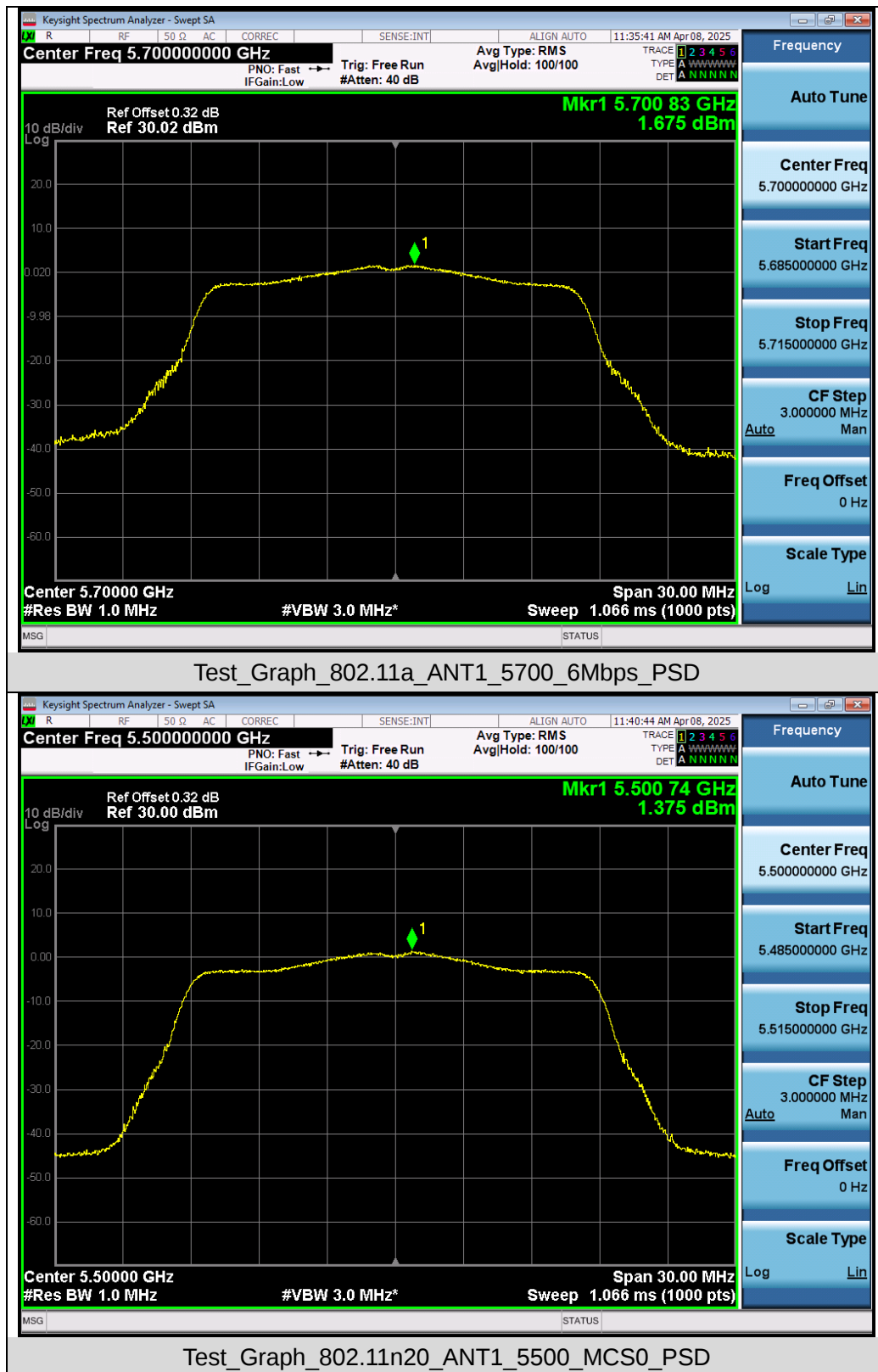


Test_Graph_802.11a_ANT1_5500_6Mbps_PSD



Test_Graph_802.11a_ANT1_5580_6Mbps_PSD

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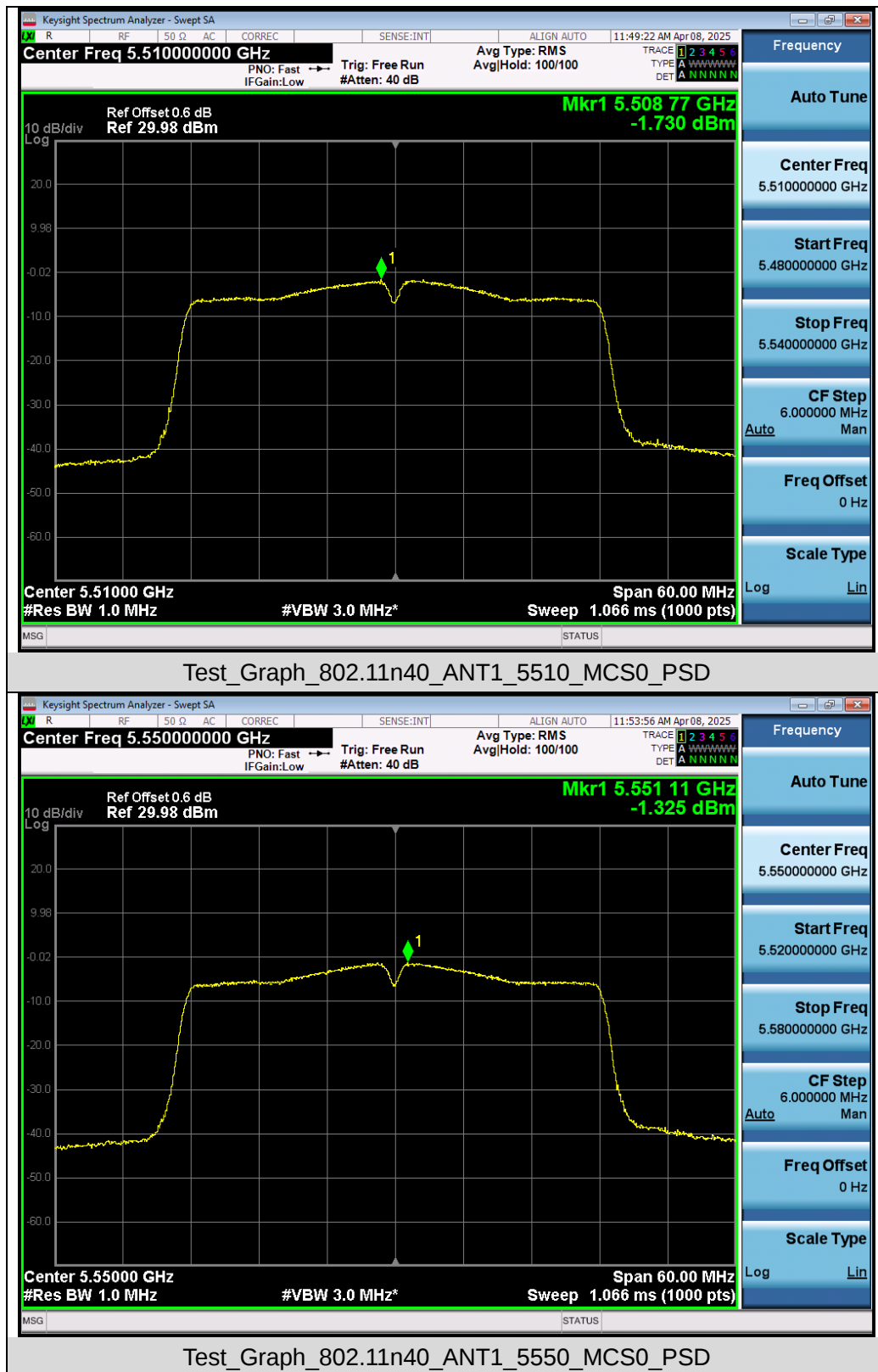
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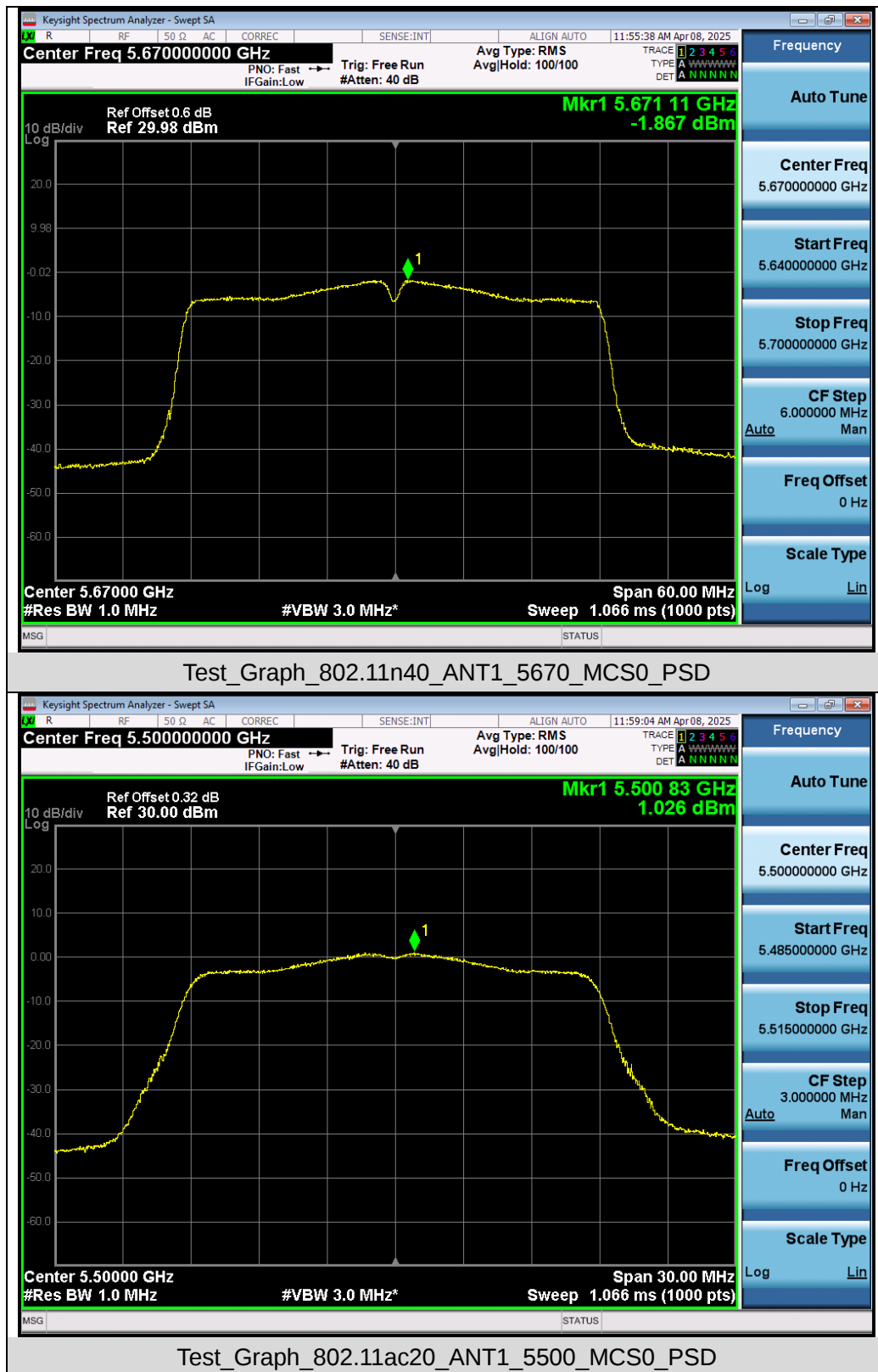
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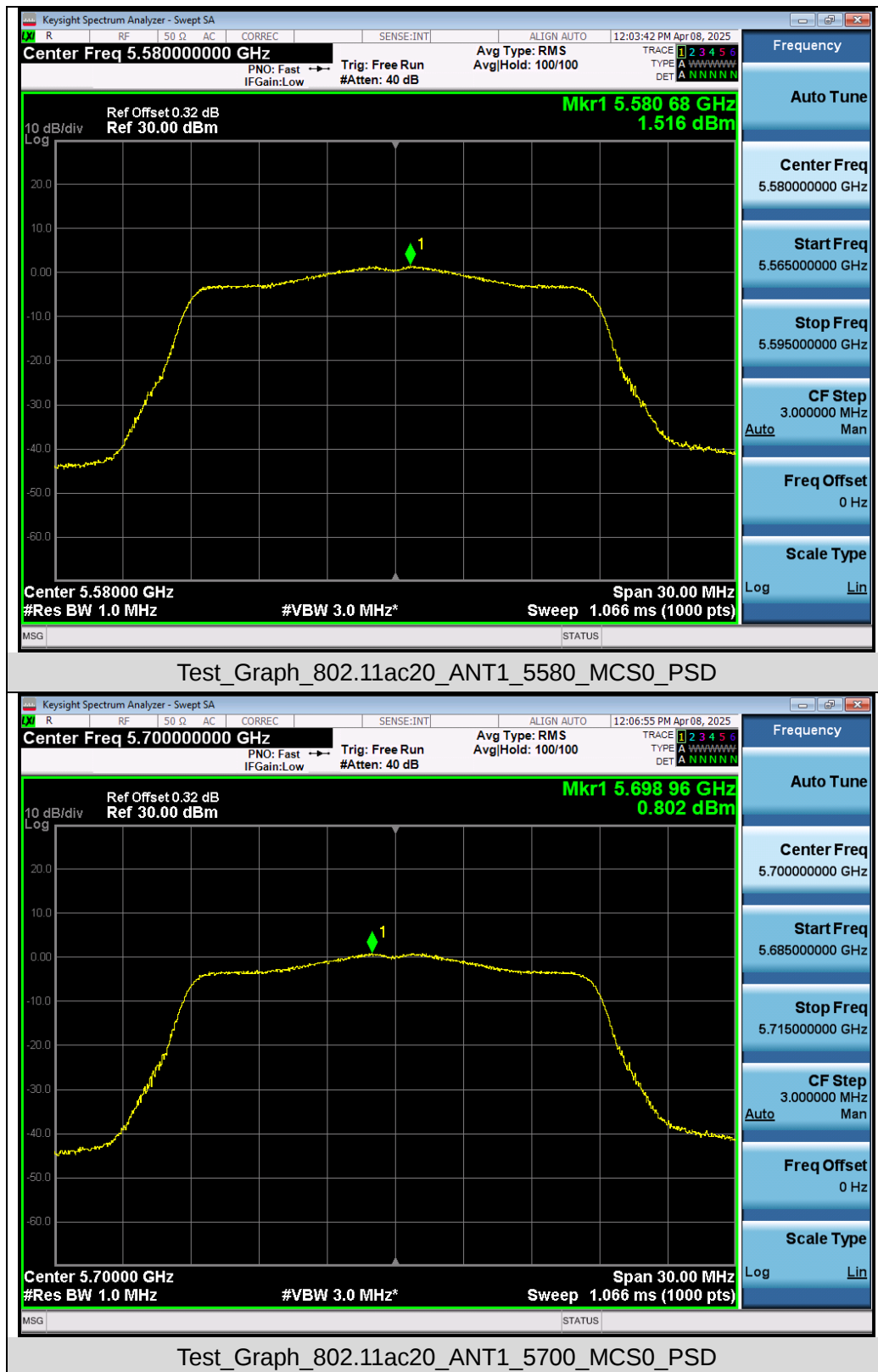
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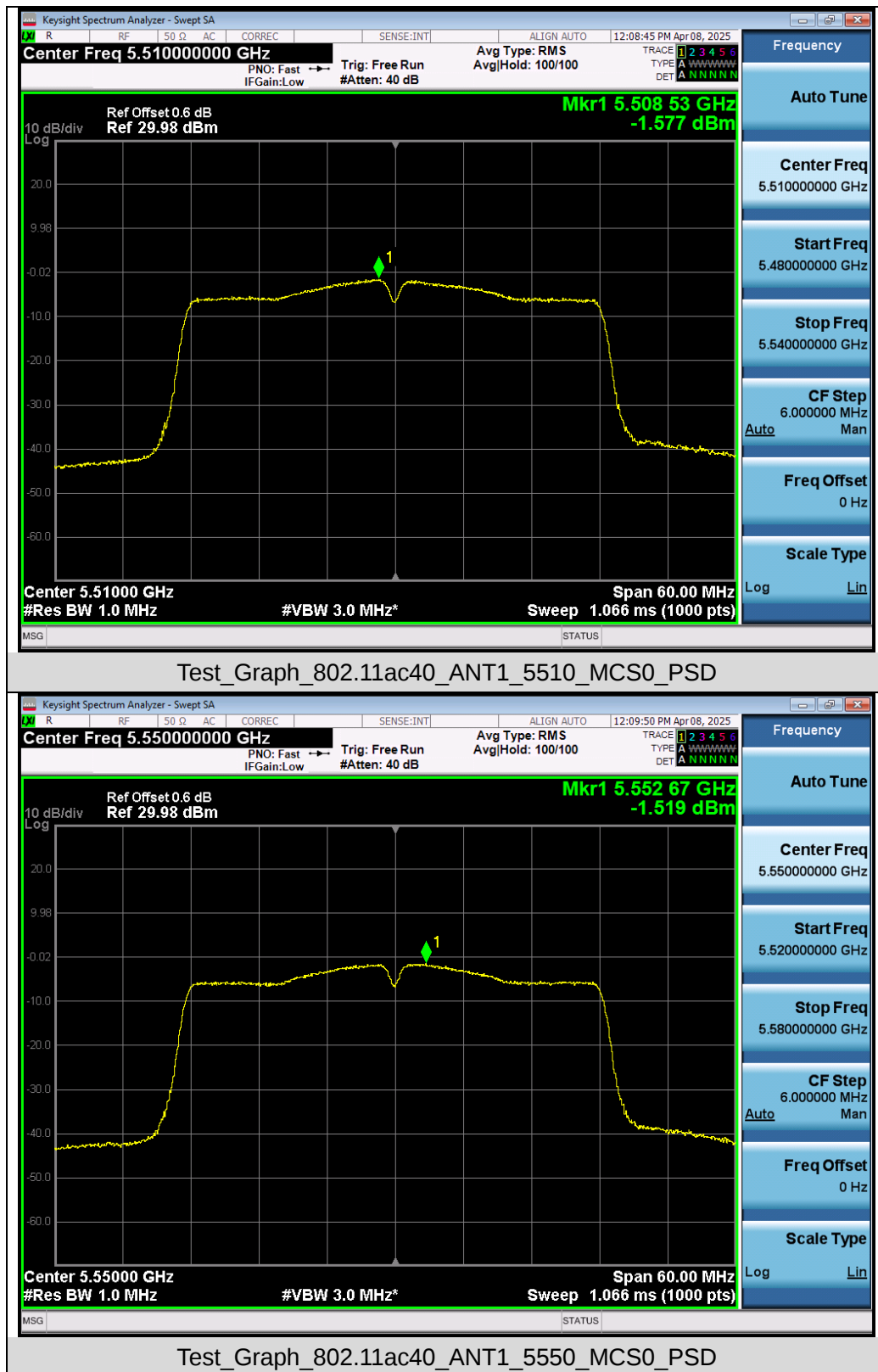
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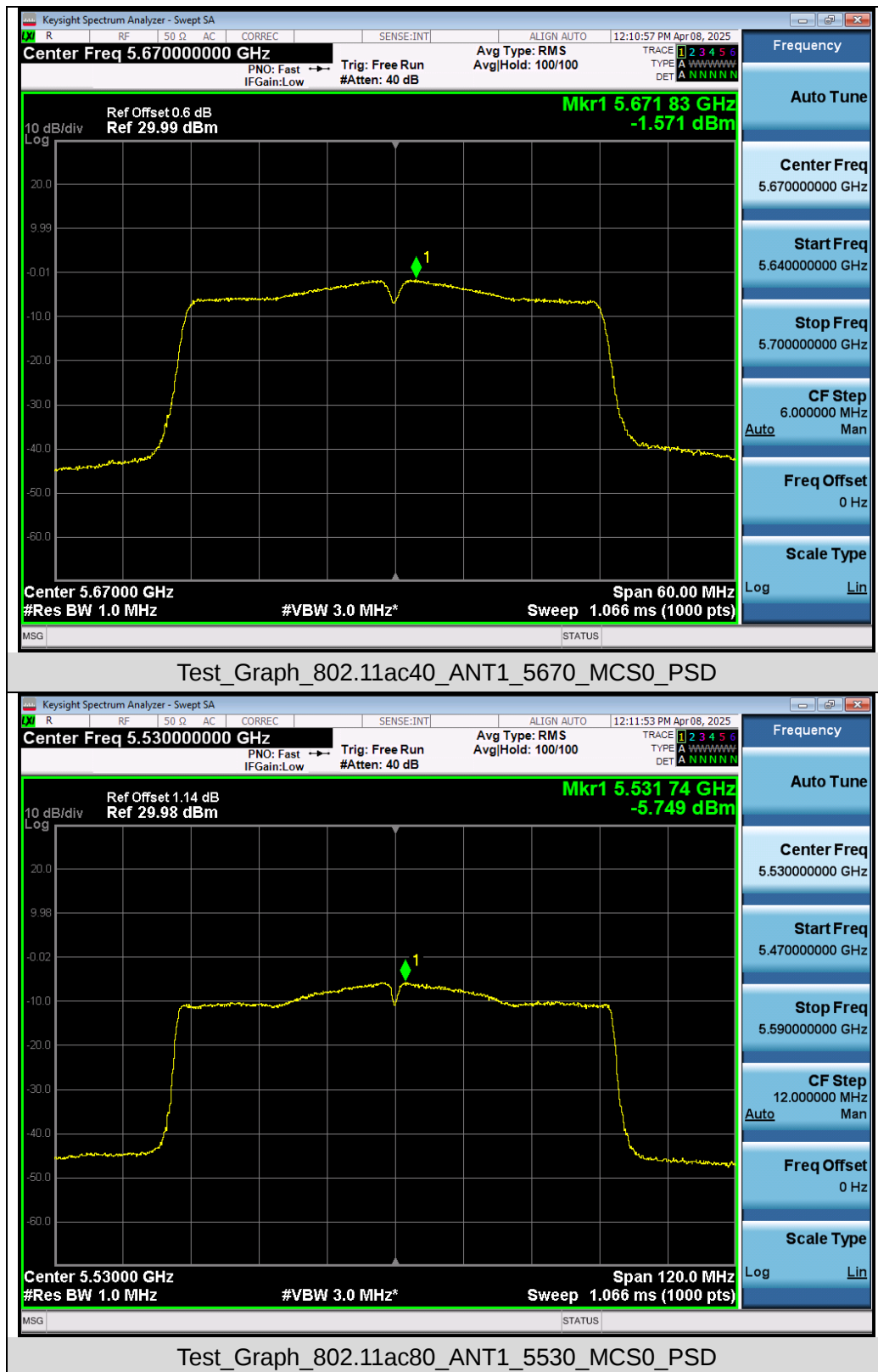
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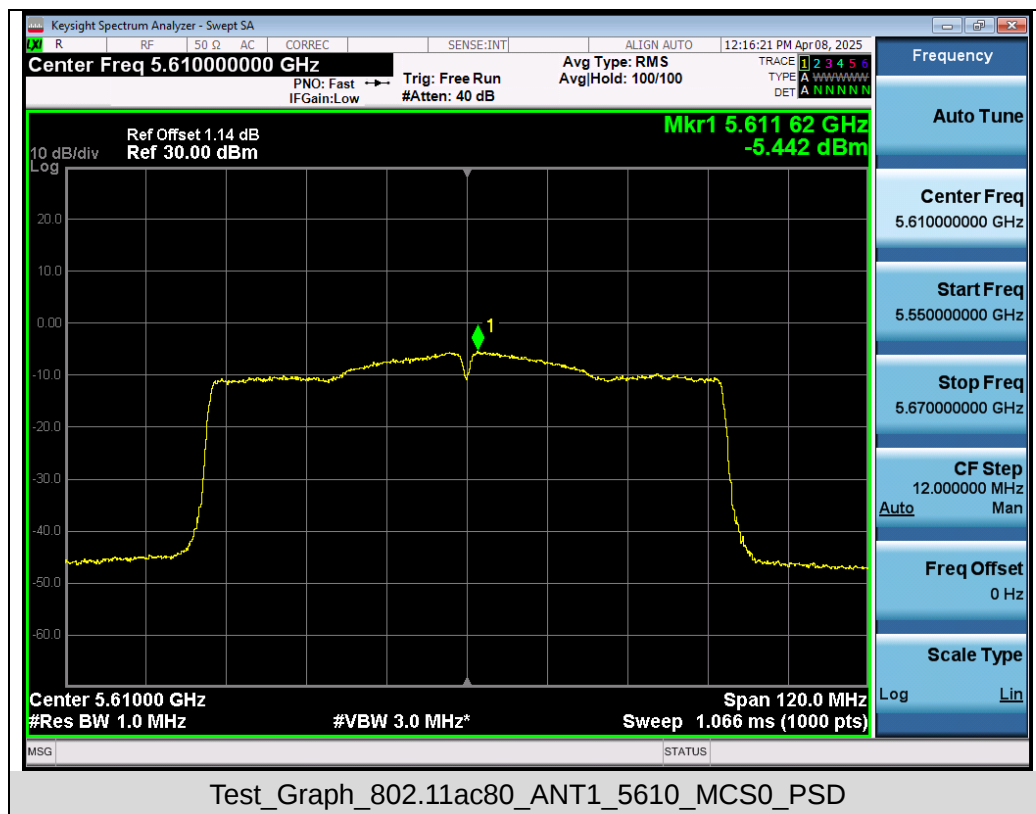
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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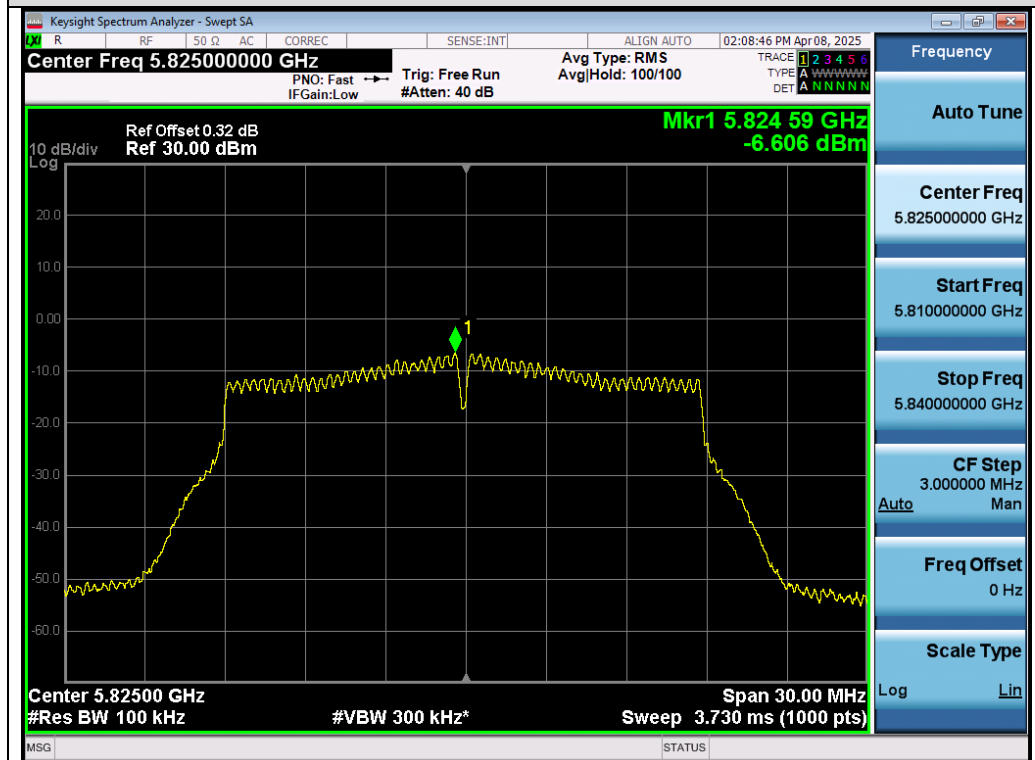


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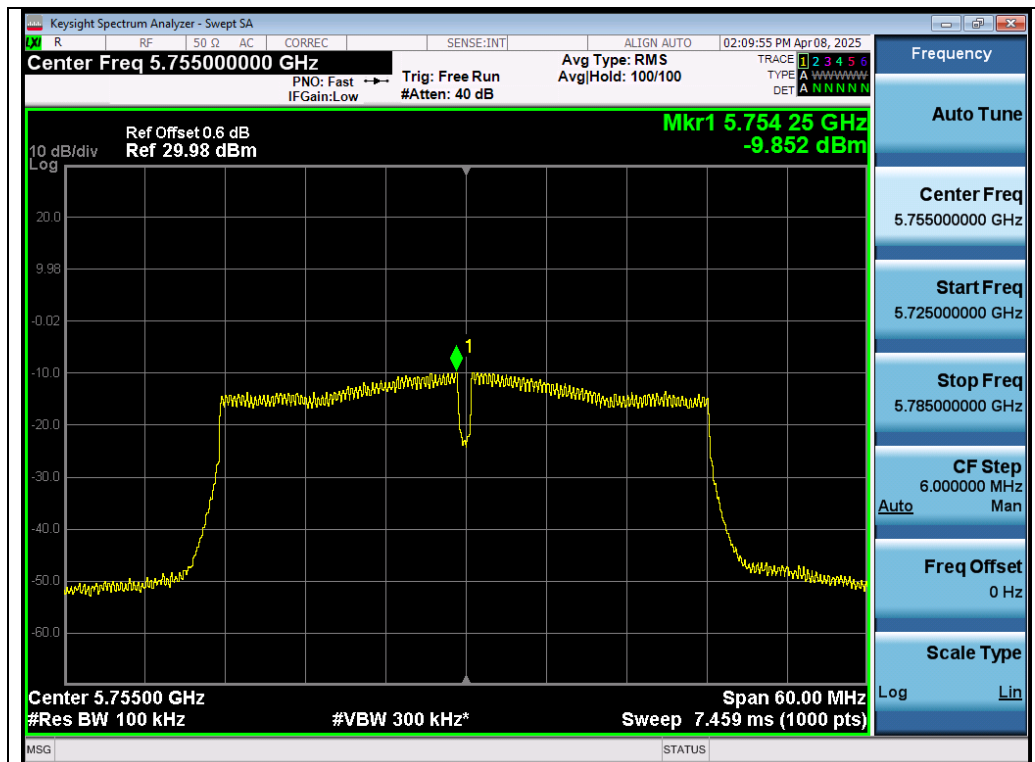
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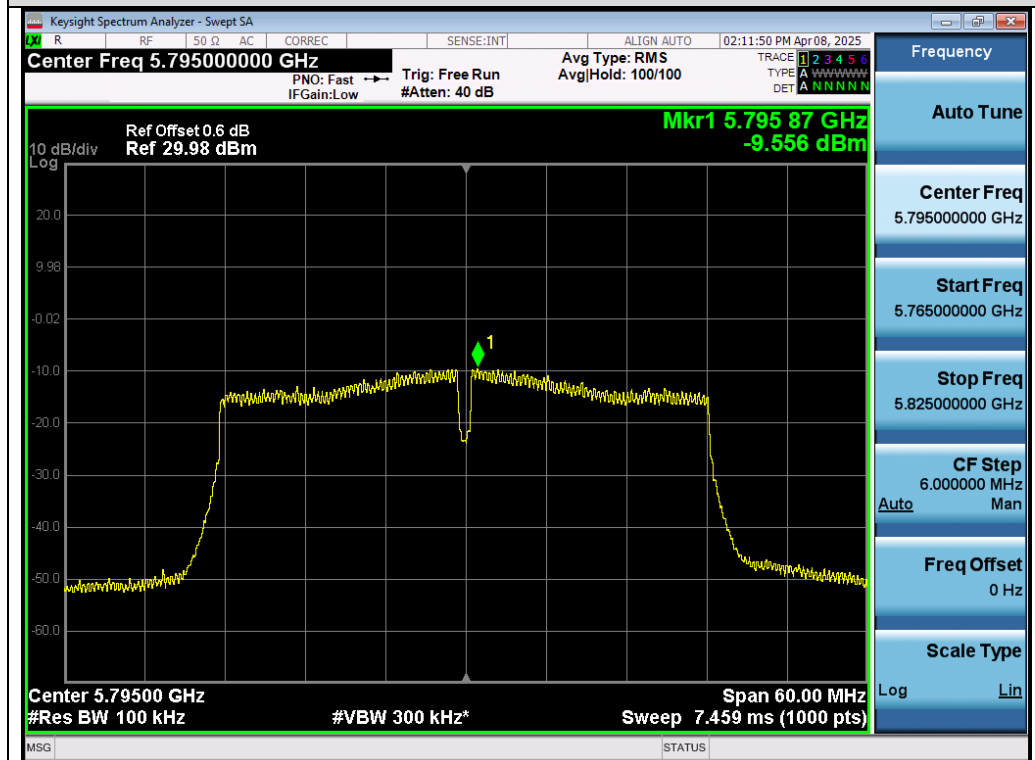
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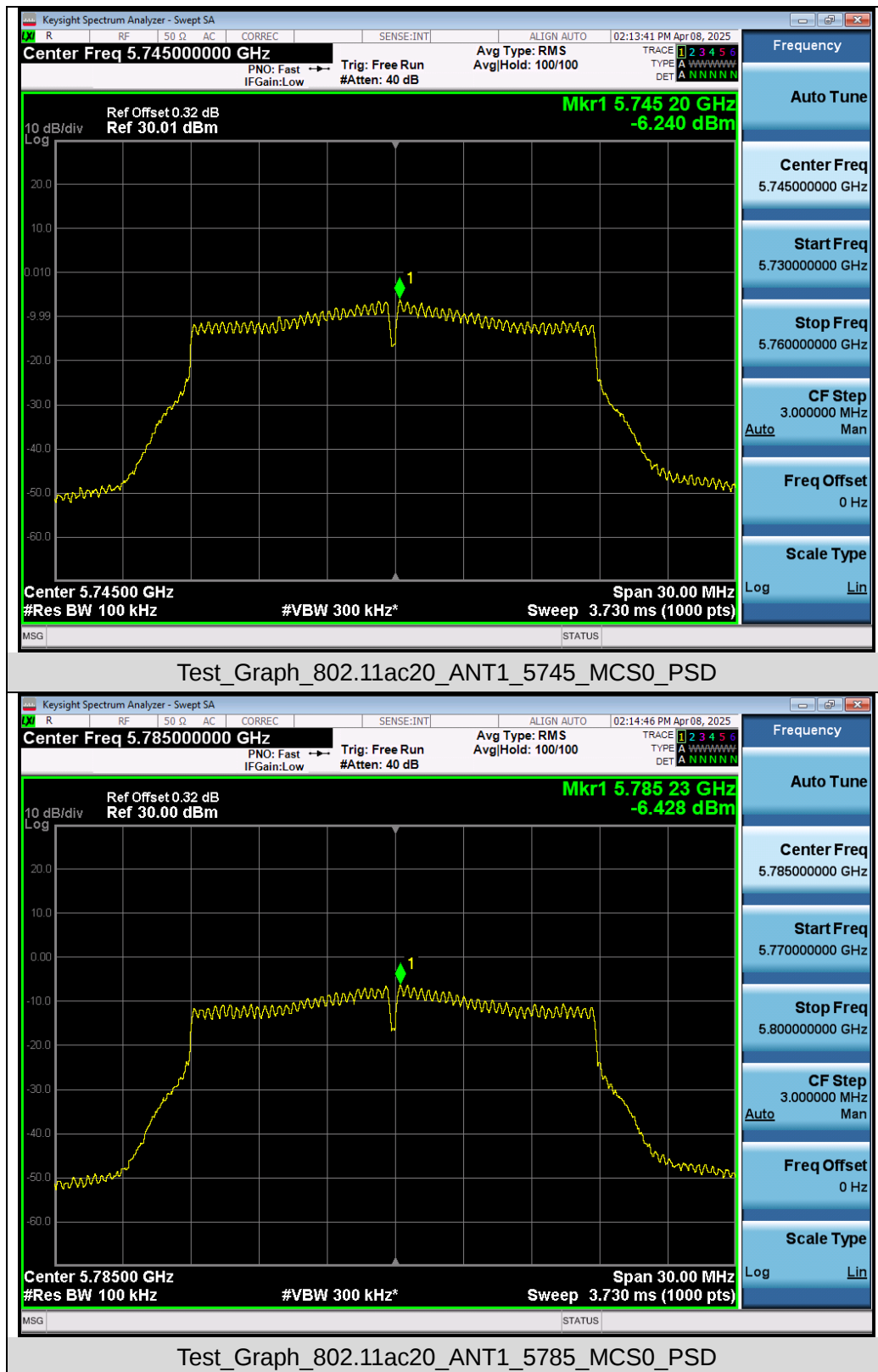
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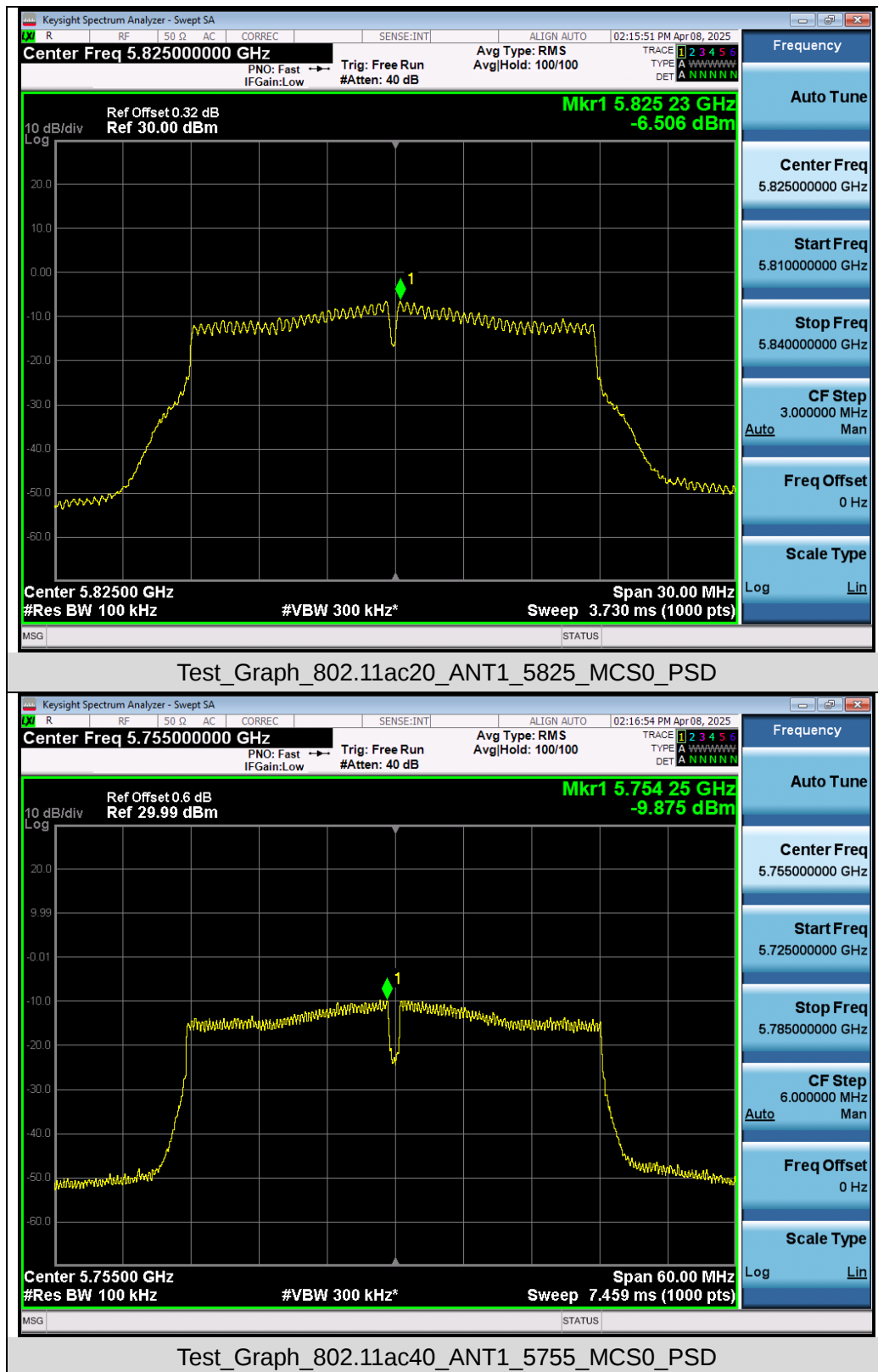
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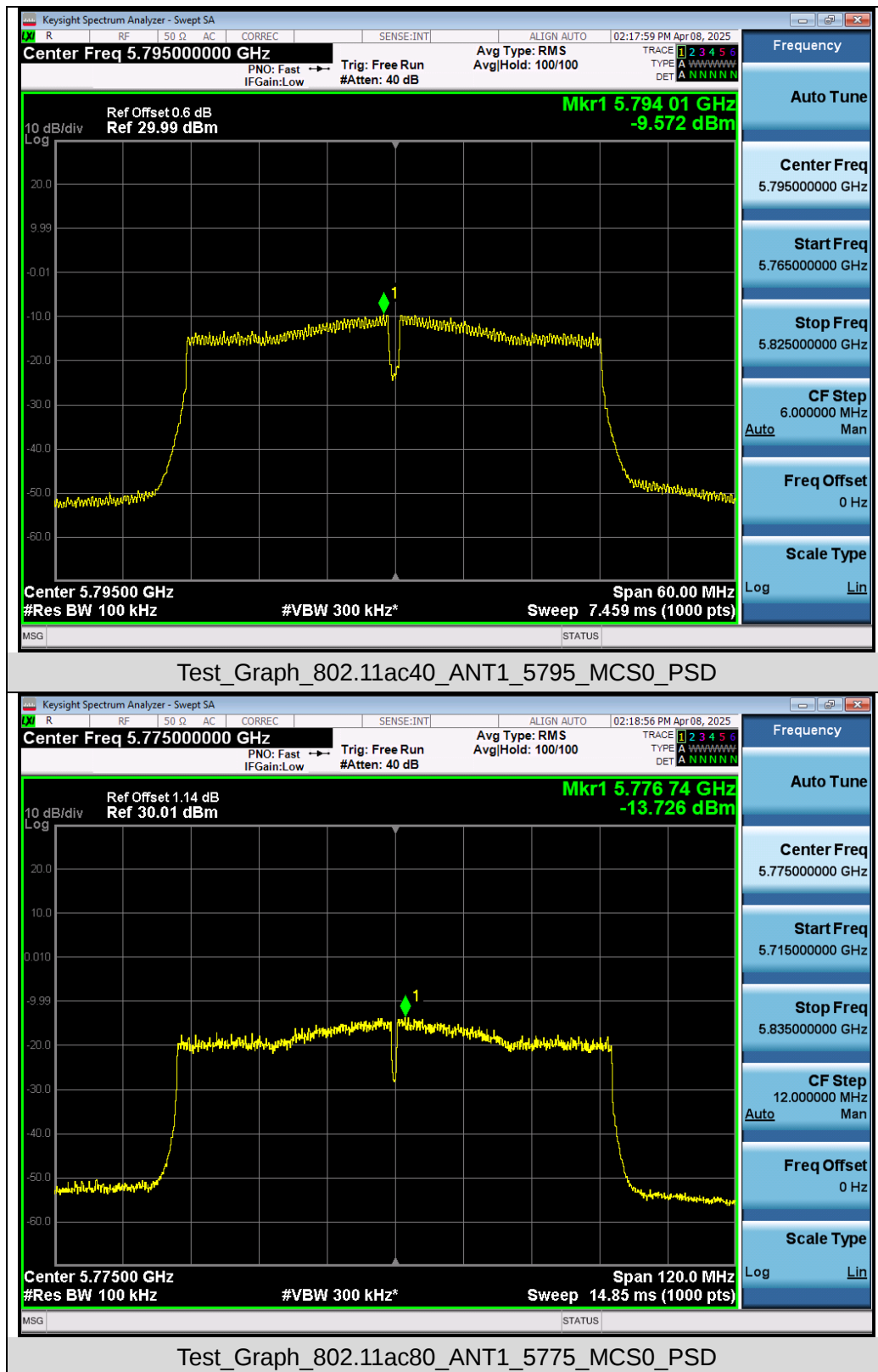
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10. Conducted Band Edge and Out-of-Band Emissions

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:

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

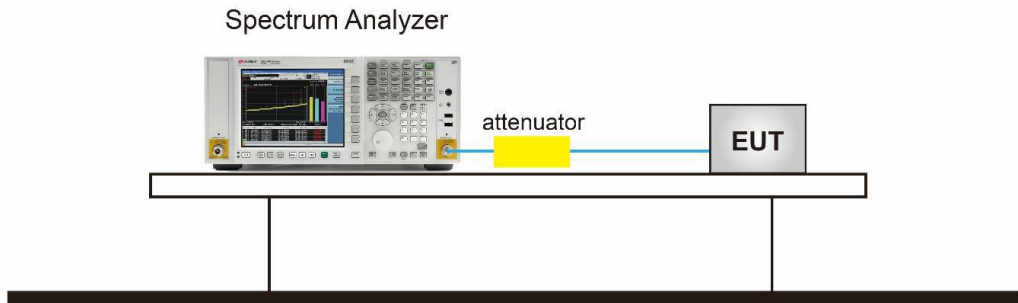
Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below 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.

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10.3 Measurement Setup (Block Diagram of Configuration)

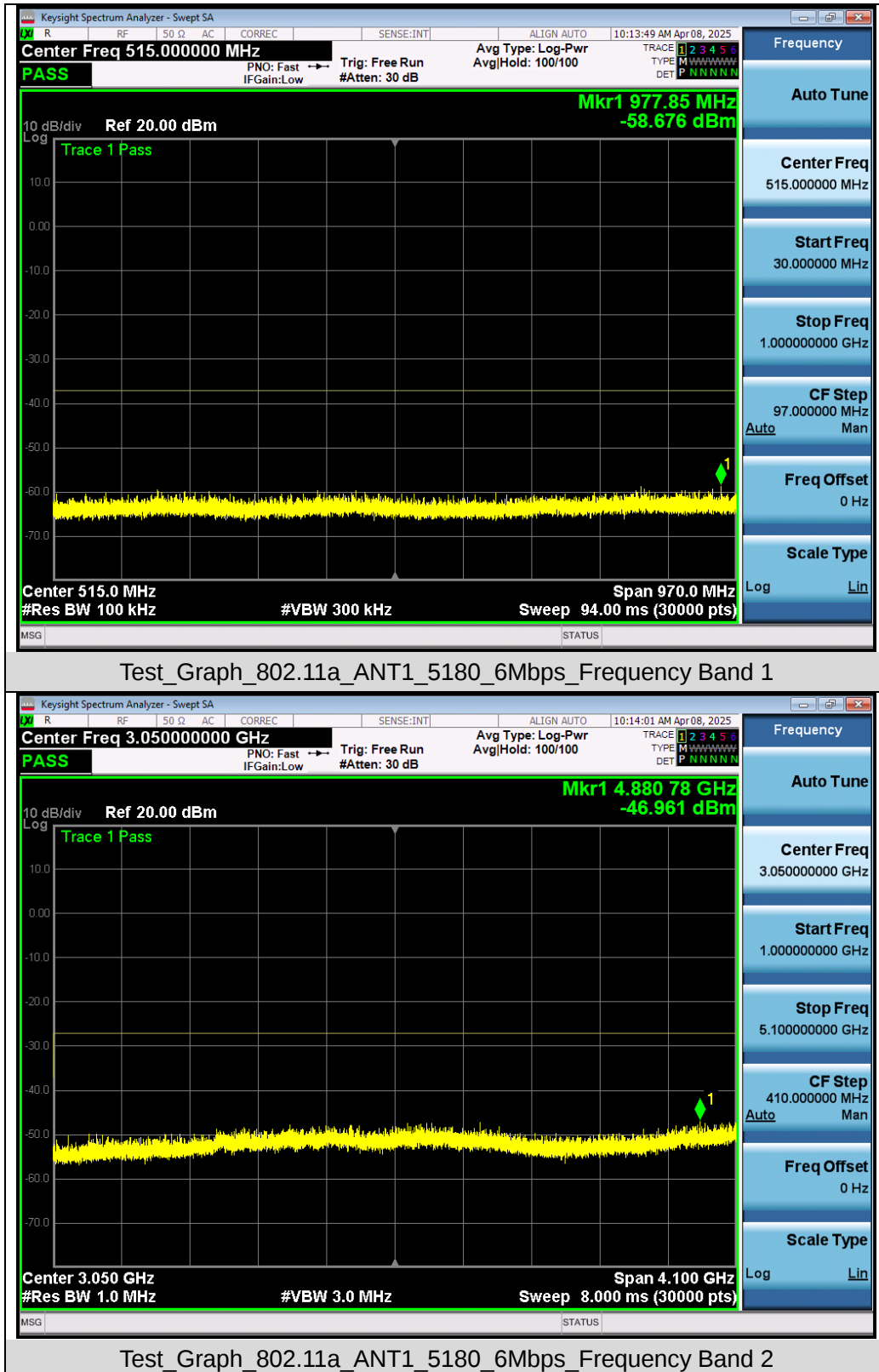


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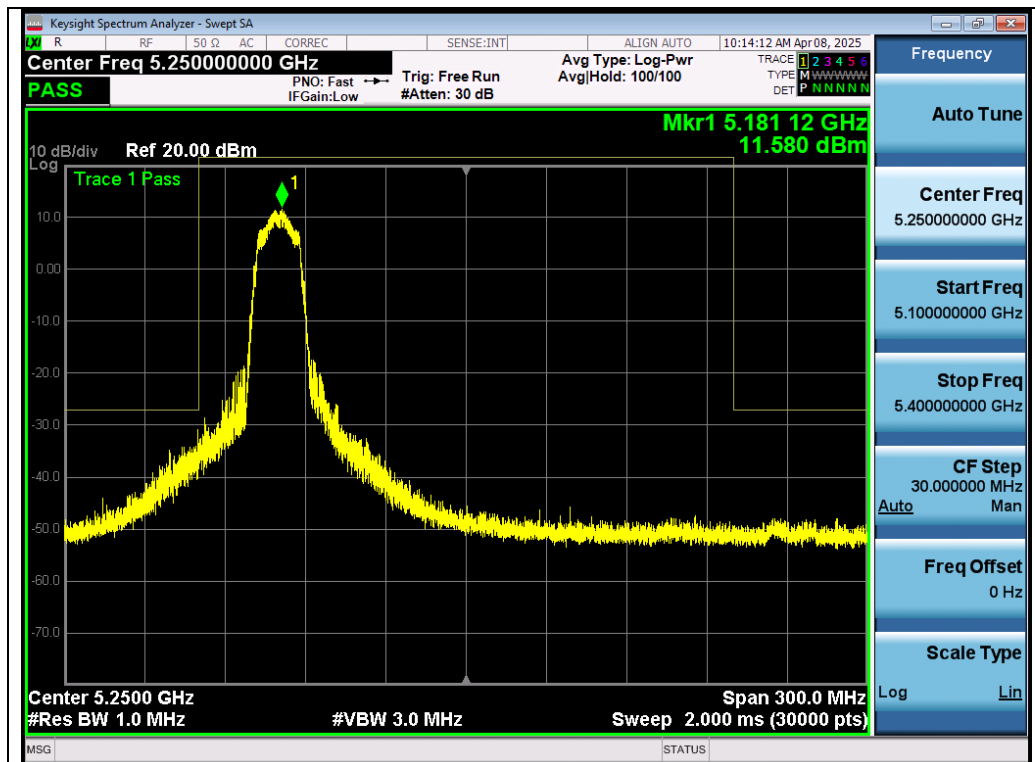
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10.4 Measurement Results

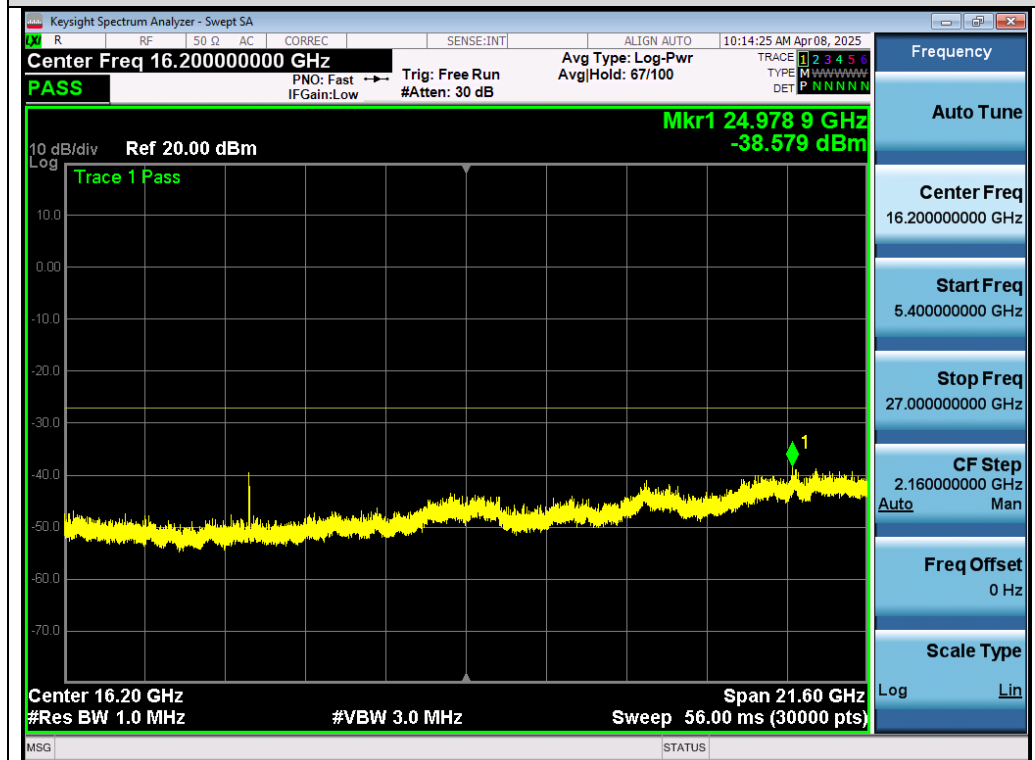
Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band



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Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 3



Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 4

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