

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	-0.429	11	Pass
	5200	0.012	11	Pass
	5240	0.411	11	Pass
802.11n20	5180	-0.519	11	Pass
	5200	-0.508	11	Pass
	5240	0.001	11	Pass
802.11n40	5190	-4.985	11	Pass
	5230	-4.565	11	Pass
802.11ac20	5180	-2.154	11	Pass
	5200	-2.010	11	Pass
	5240	-1.529	11	Pass
802.11ac40	5190	-4.998	11	Pass
	5230	-4.684	11	Pass
802.11ac80	5210	-8.516	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	0.515	11	Pass
	5300	0.500	11	Pass
	5320	0.697	11	Pass
802.11n20	5260	-0.329	11	Pass
	5300	-0.388	11	Pass
	5320	0.237	11	Pass
802.11n40	5270	-4.164	11	Pass
	5310	-4.762	11	Pass
802.11ac20	5260	-1.490	11	Pass
	5300	-1.293	11	Pass
	5320	-1.066	11	Pass
802.11ac40	5270	-4.353	11	Pass
	5310	-3.731	11	Pass
802.11ac80	5290	-7.811	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	-0.198	11	Pass
	5600	0.225	11	Pass
	5700	-0.003	11	Pass
802.11n20	5500	-0.684	11	Pass
	5600	-0.138	11	Pass
	5700	-0.200	11	Pass
802.11n40	5510	-4.703	11	Pass
	5590	-3.908	11	Pass
802.11ac20	5670	-3.611	11	Pass
	5500	-1.750	11	Pass
	5600	-0.953	11	Pass
802.11ac40	5700	-0.314	11	Pass
	5510	-4.532	11	Pass
802.11ac80	5610	-6.241	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	-9.172	-2.182	30	Pass
	5785	-9.584	-2.594	30	Pass
	5825	-9.474	-2.484	30	Pass
802.11n20	5745	-9.201	-2.211	30	Pass
	5785	-9.732	-2.742	30	Pass
	5825	-9.502	-2.512	30	Pass
802.11n40	5755	-13.387	-6.397	30	Pass
	5795	-14.303	-7.313	30	Pass
802.11ac20	5745	-10.264	-3.274	30	Pass
	5785	-10.375	-3.385	30	Pass
	5825	-10.459	-3.469	30	Pass
802.11ac40	5755	-13.536	-6.546	30	Pass
	5795	-13.523	-6.533	30	Pass
802.11ac80	5775	-16.002	-9.012	30	Pass

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

2.The Total PSD (dBm/500kHz) = $10^{\frac{(\text{Ant 1 PSD}/10)}{10}} + 10^{\frac{(\text{Ant 2 PSD}/10)}{10}} + 10^{\frac{(\text{Ant 3 PSD}/10)}{10}} + 10^{\frac{(\text{Ant 4 PSD}/10)}{10}}$ (dBm/500kHz)

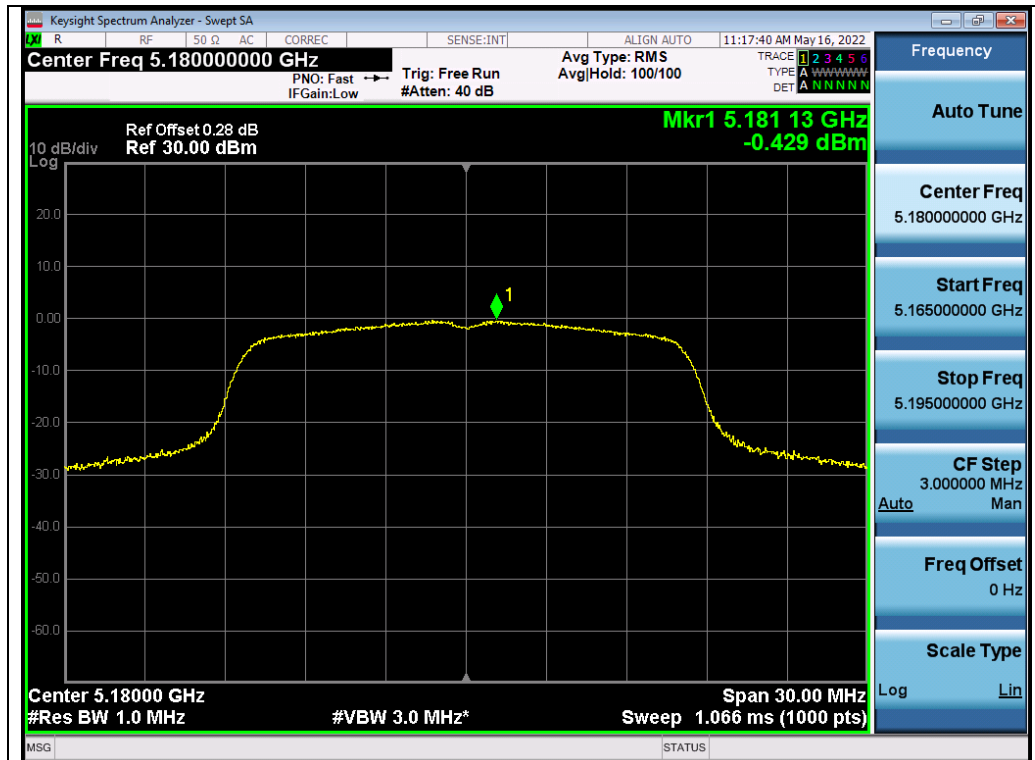
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_PSD

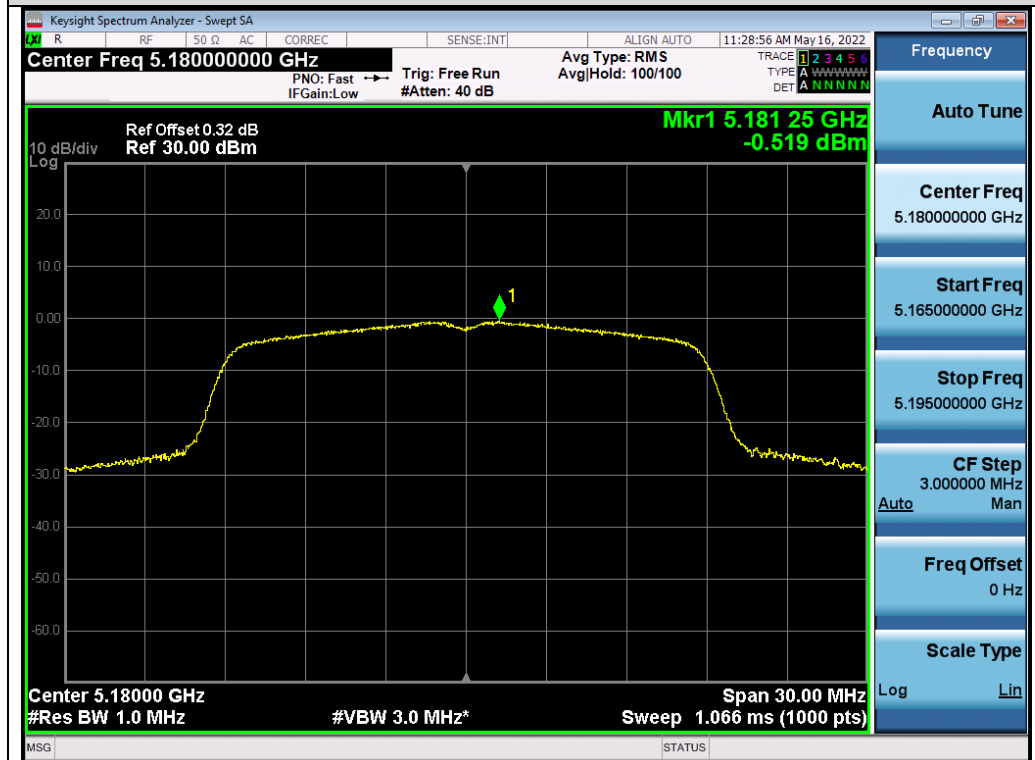


Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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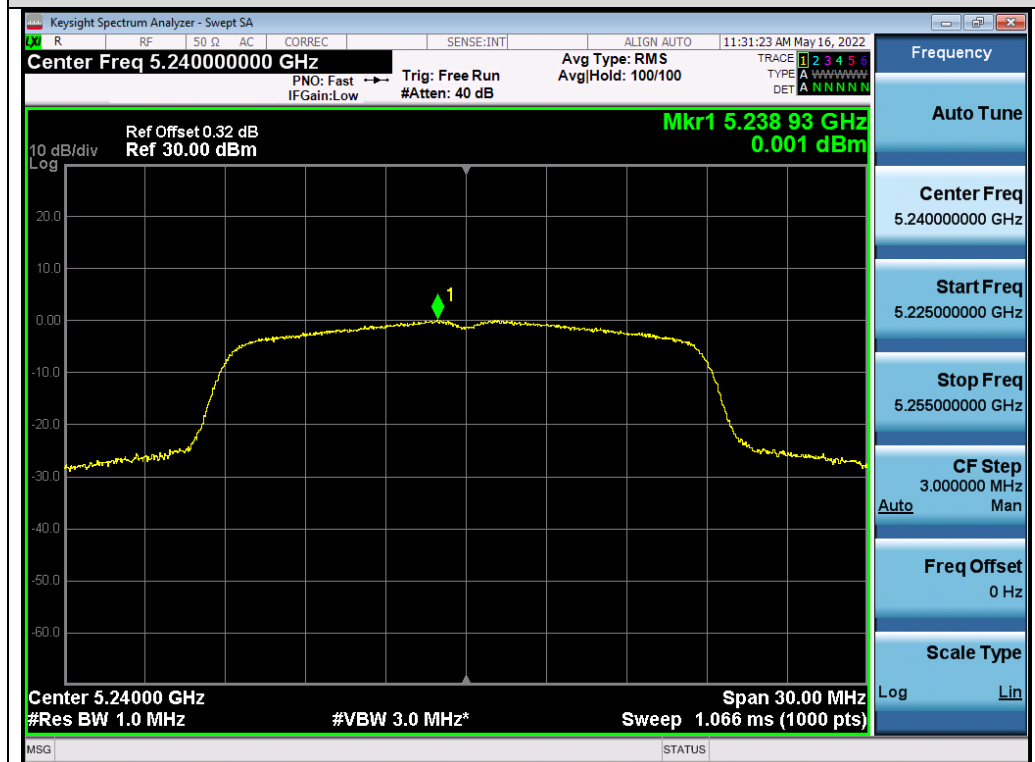


Test_Graph_802.11a_ANT1_5240_6Mbps_PSD



Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

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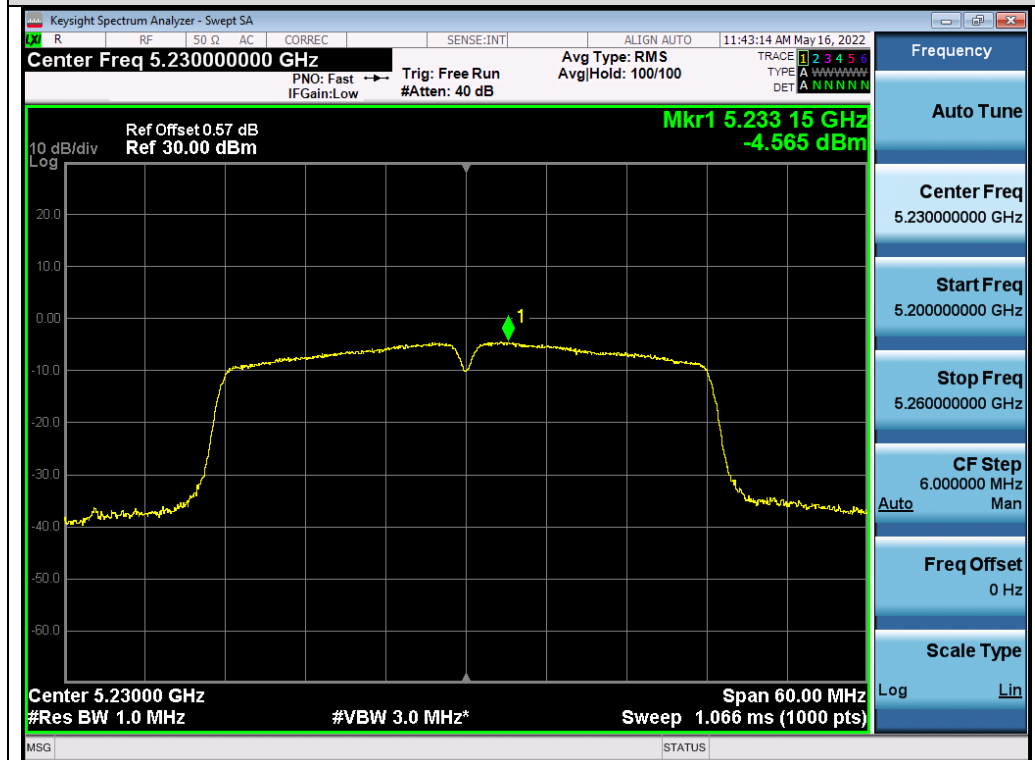


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Test_Graph_802.11n40_ANT1_5190_MCS0_PSD

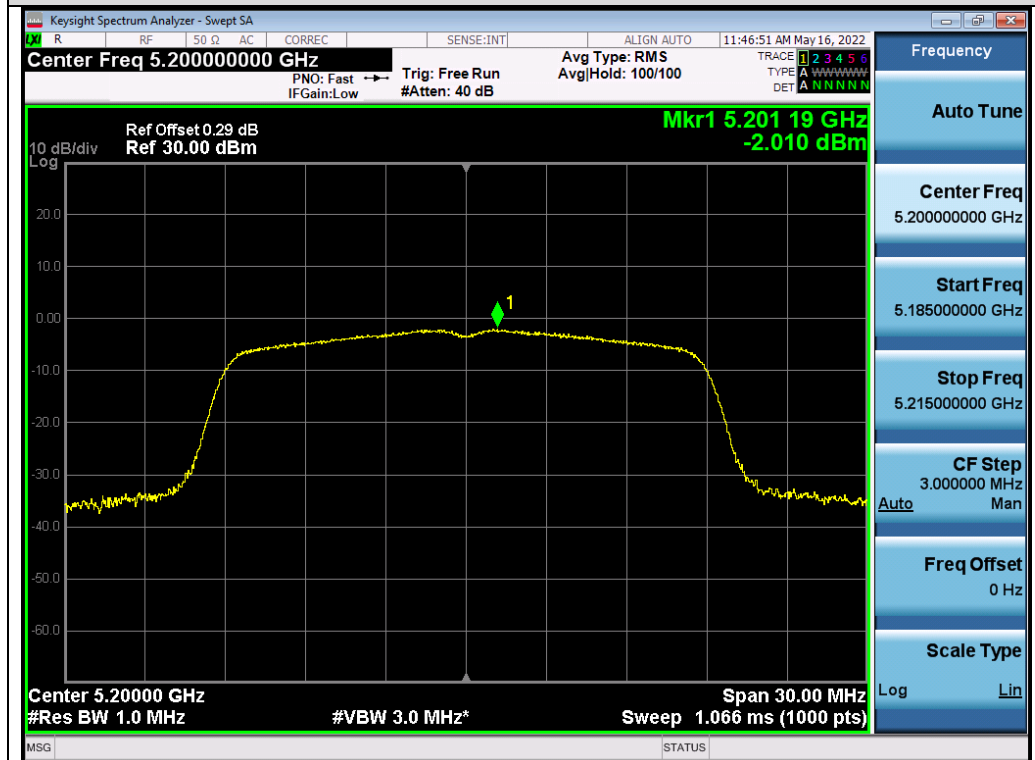


Test_Graph_802.11n40_ANT1_5230_MCS0_PSD

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Test_Graph_802.11ac20_ANT1_5180_MCS0_PSD



Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD

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Test_Graph_802.11ac20_ANT1_5240_MCS9_PSD



Test_Graph_802.11ac40_ANT1_5190_MCS9_PSD

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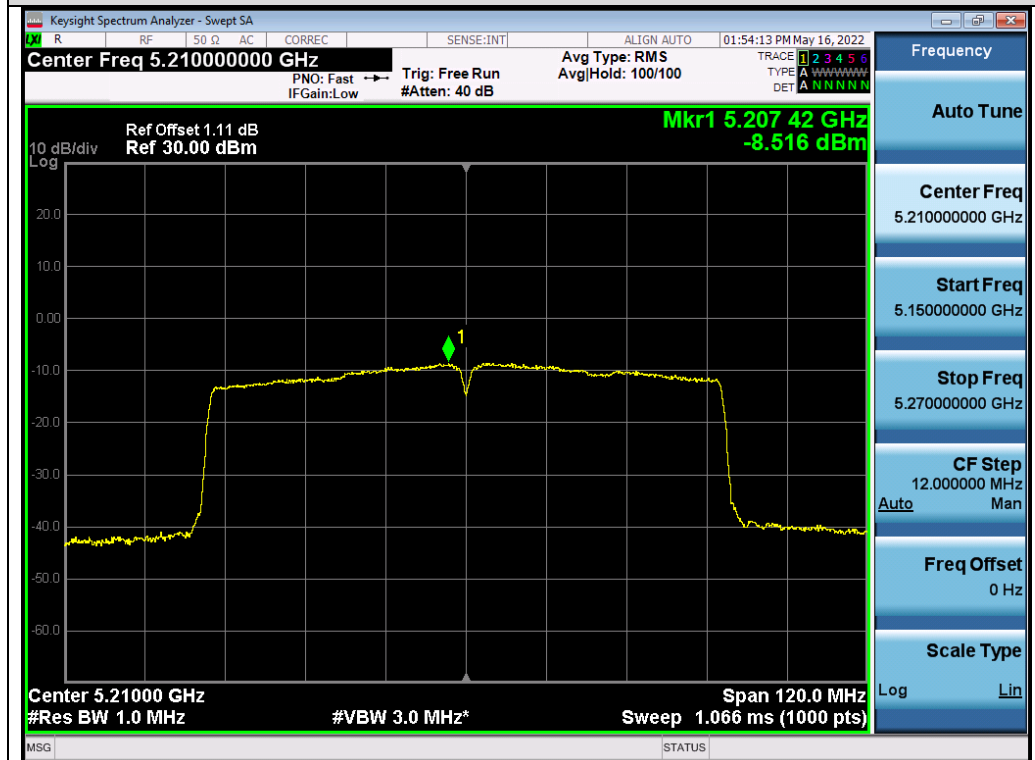
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Test_Graph_802.11ac40_ANT1_5230_MCS9_PSD



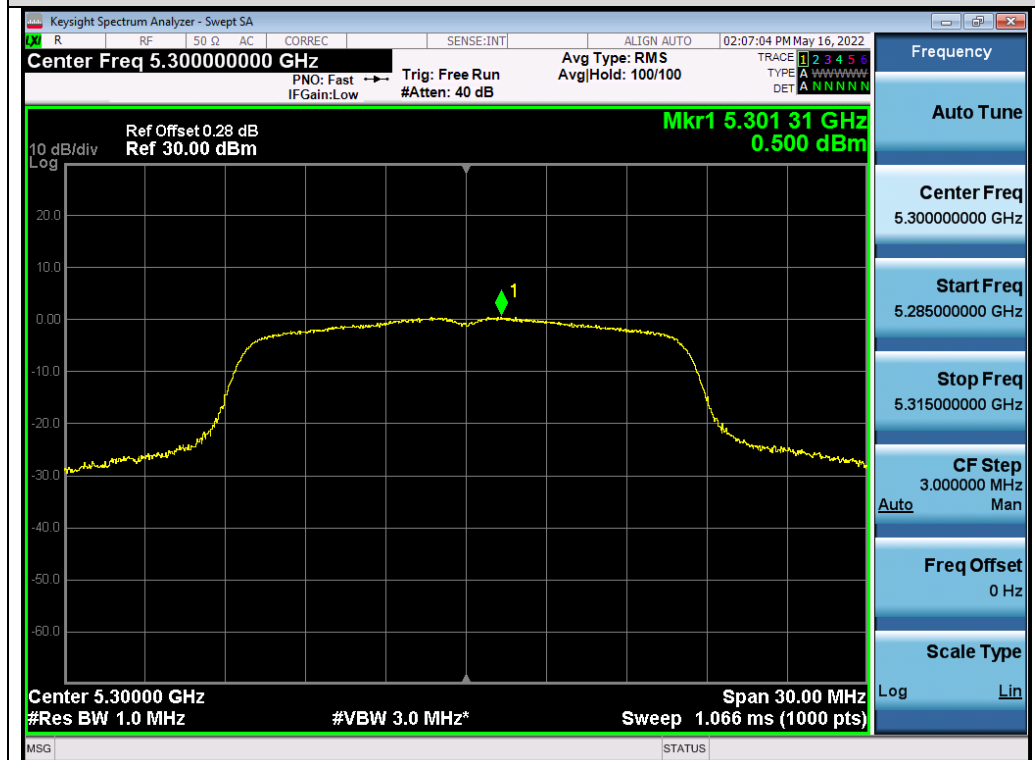
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_PSD

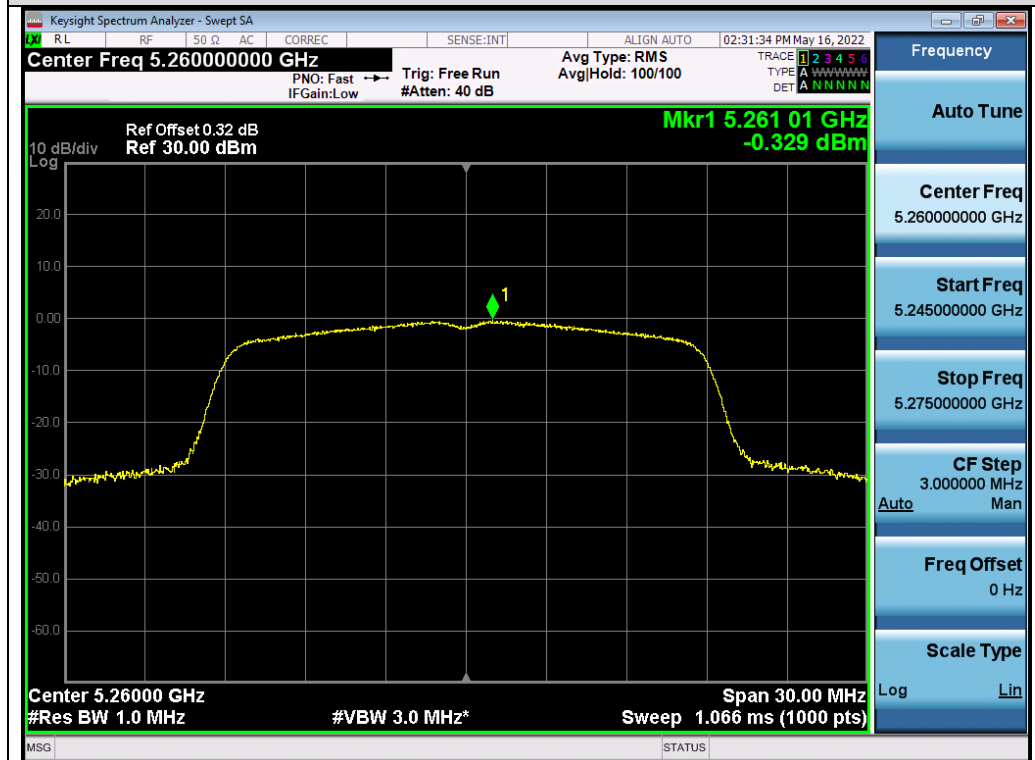


Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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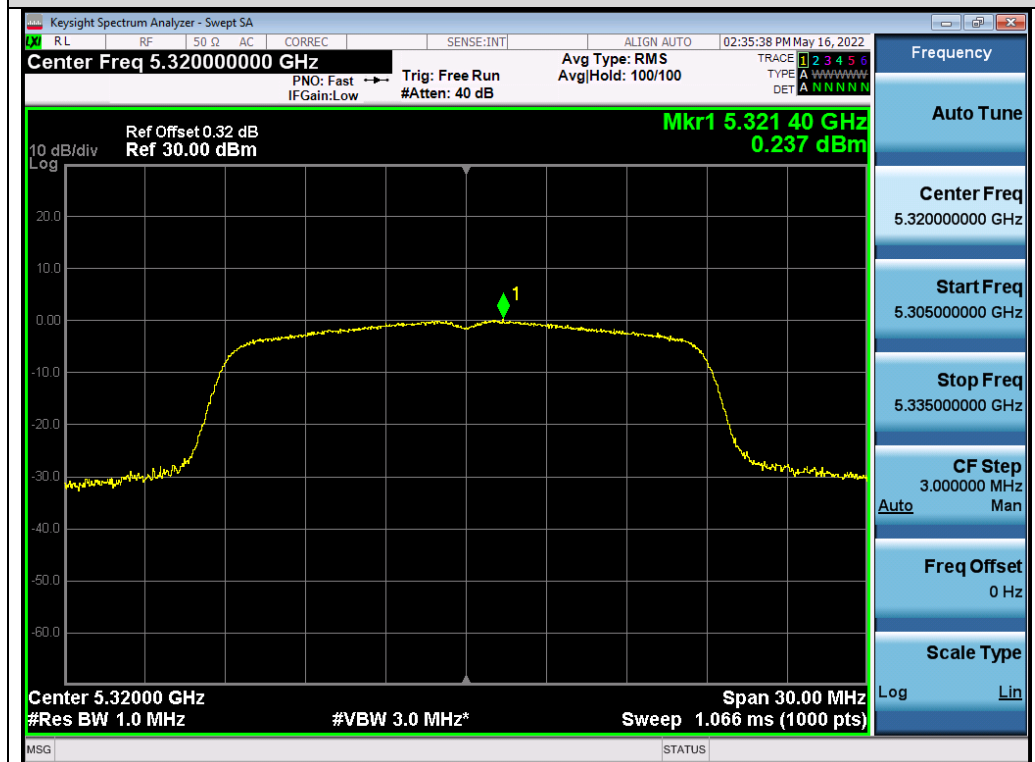


Test_Graph_802.11a_ANT1_5320_6Mbps_PSD



Test_Graph_802.11n20_ANT1_5260_MCS0_PSD

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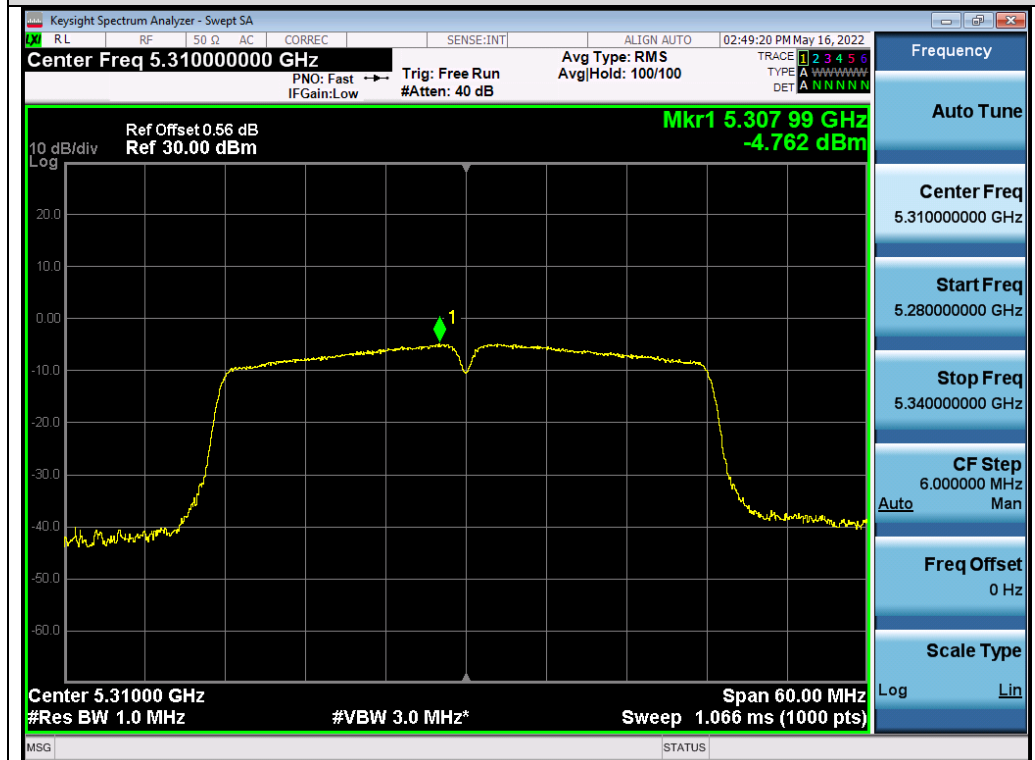


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Test_Graph_802.11n40_ANT1_5270_MCS0_PSD

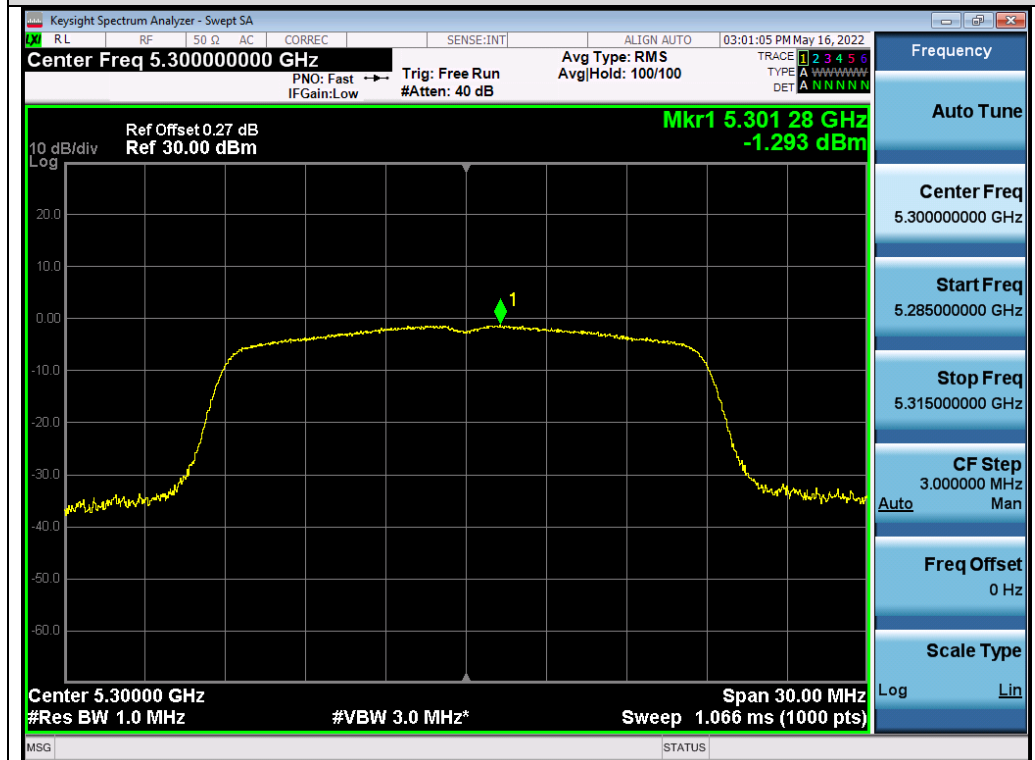


Test_Graph_802.11n40_ANT1_5310_MCS0_PSD

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Test_Graph_802.11ac20_ANT1_5260_MCS0_PSD

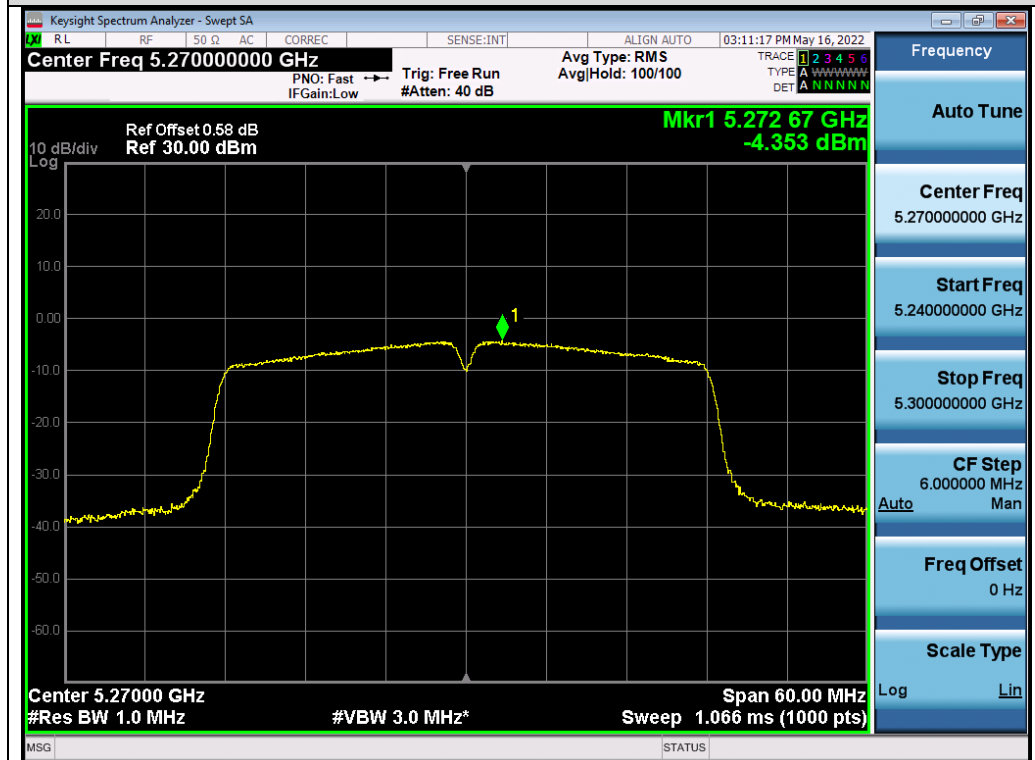


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Test_Graph_802.11ac20_ANT1_5320_MCS9_PSD

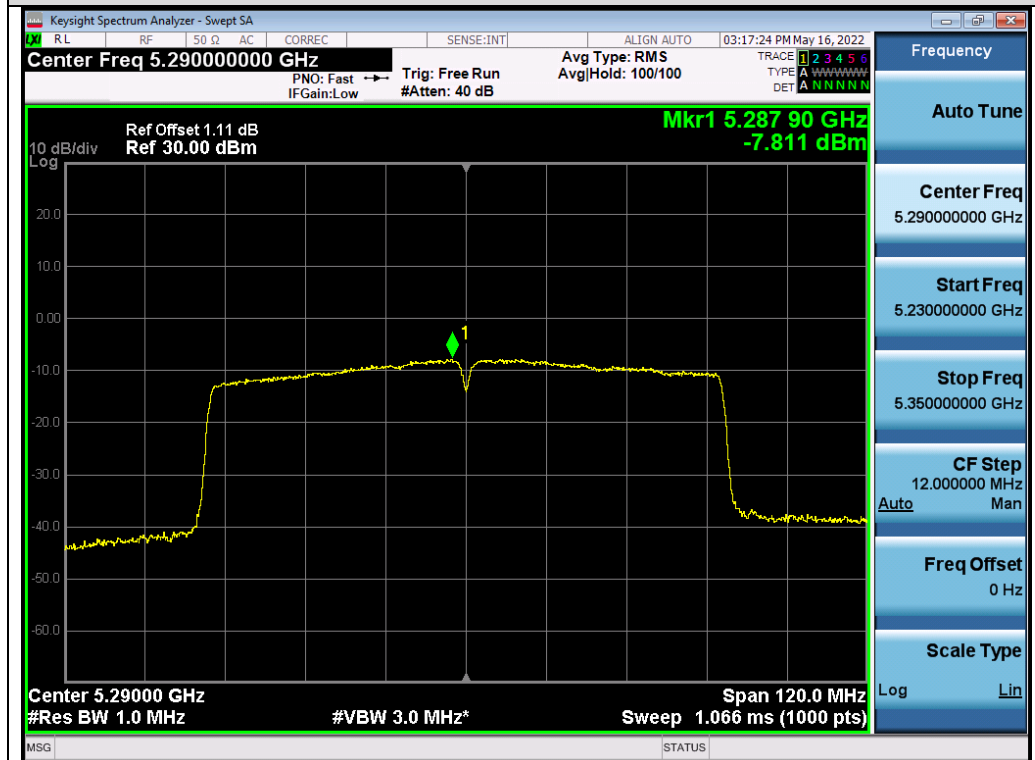


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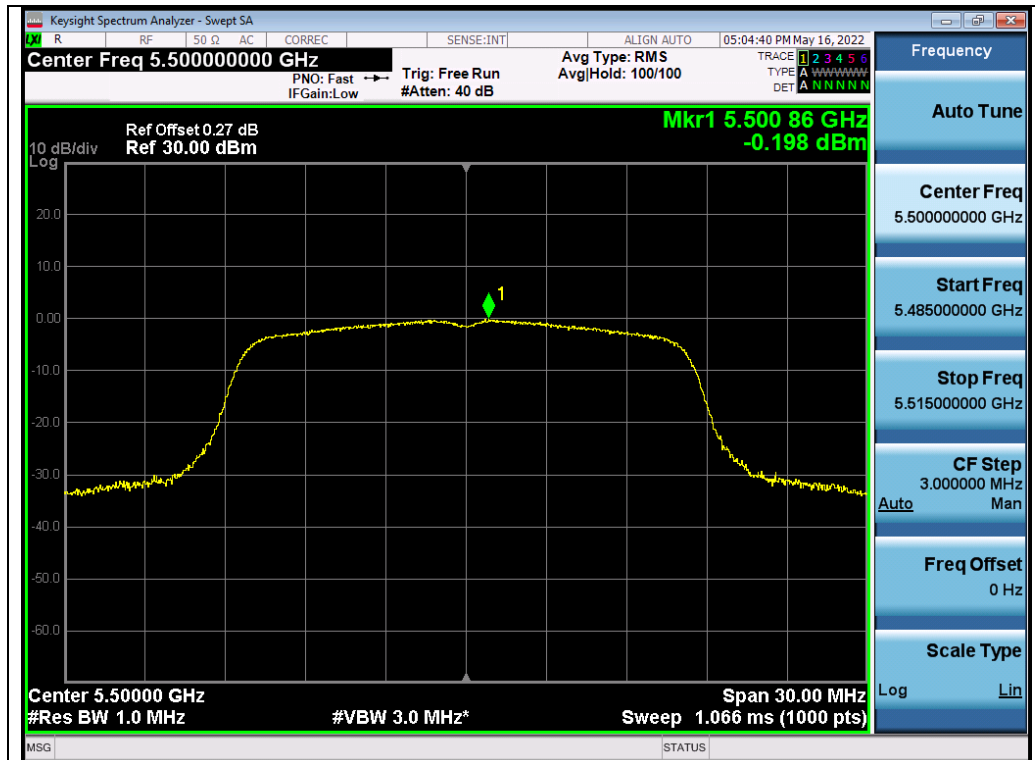
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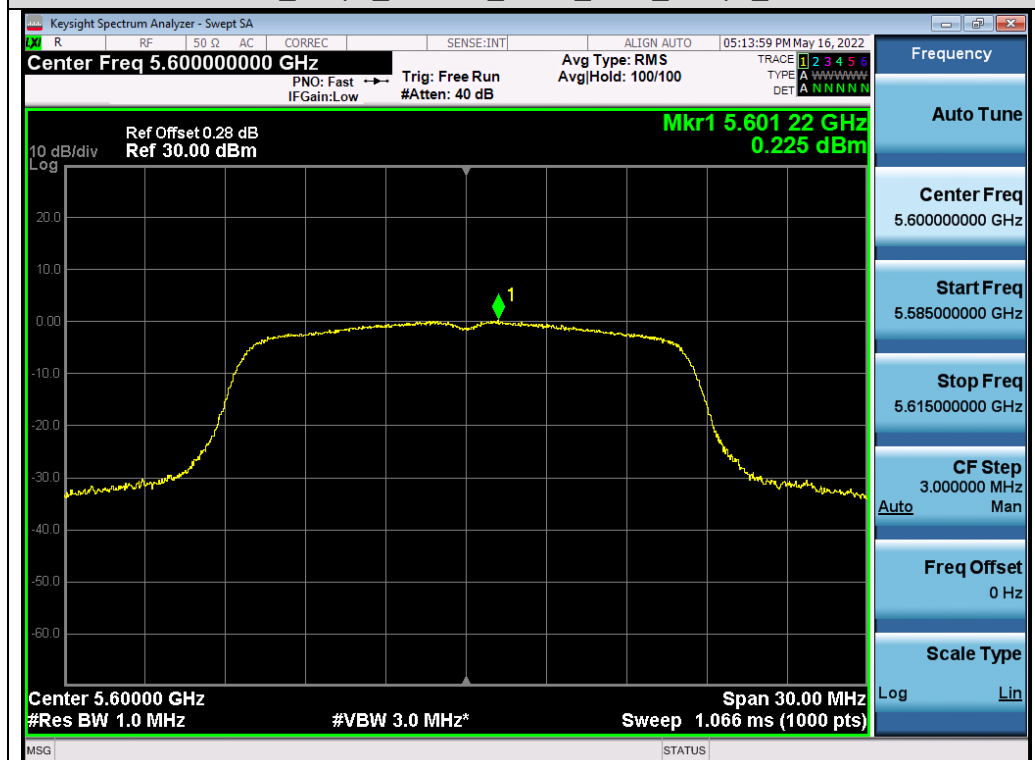
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Test Graphs of Conducted Output Power Spectral Density for band 5.47-5.725 GHz

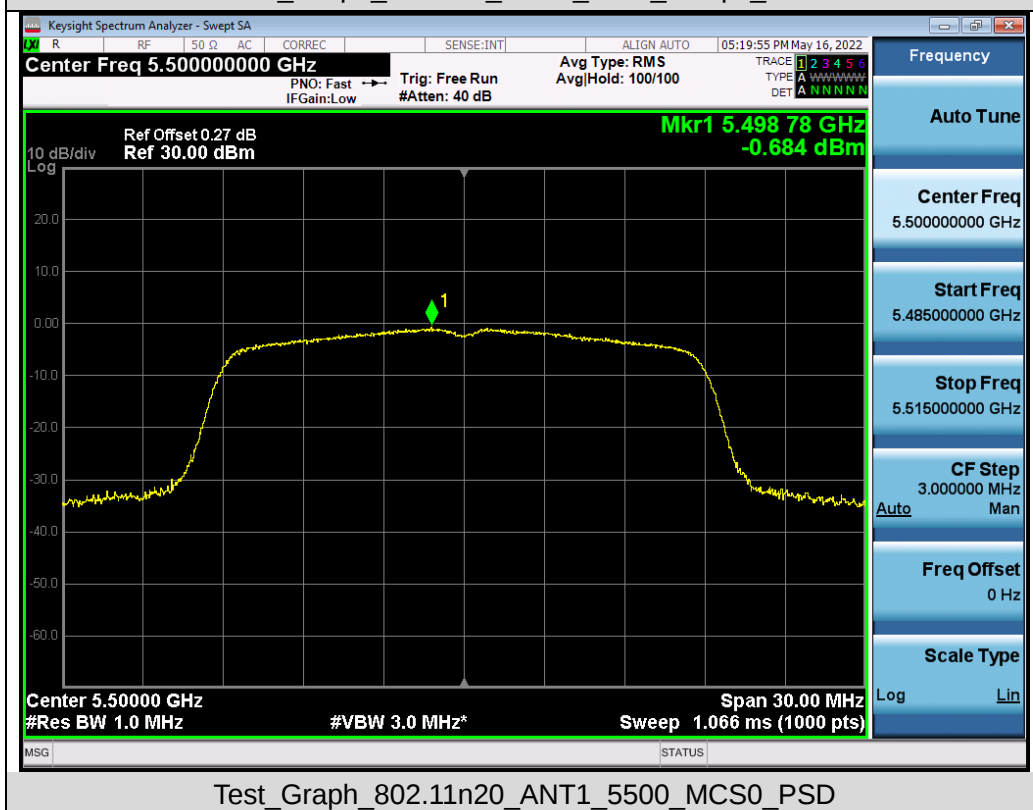


Test_Graph_802.11a_ANT1_5500_6Mbps_PSD



Test_Graph_802.11a_ANT1_5600_6Mbps_PSD

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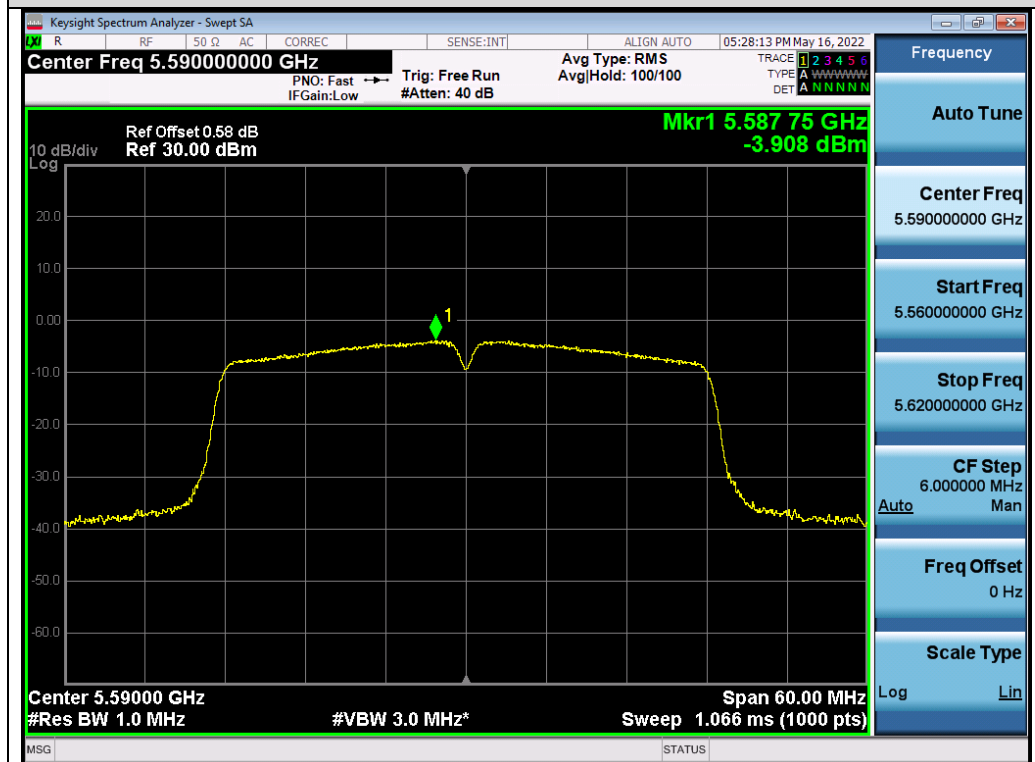
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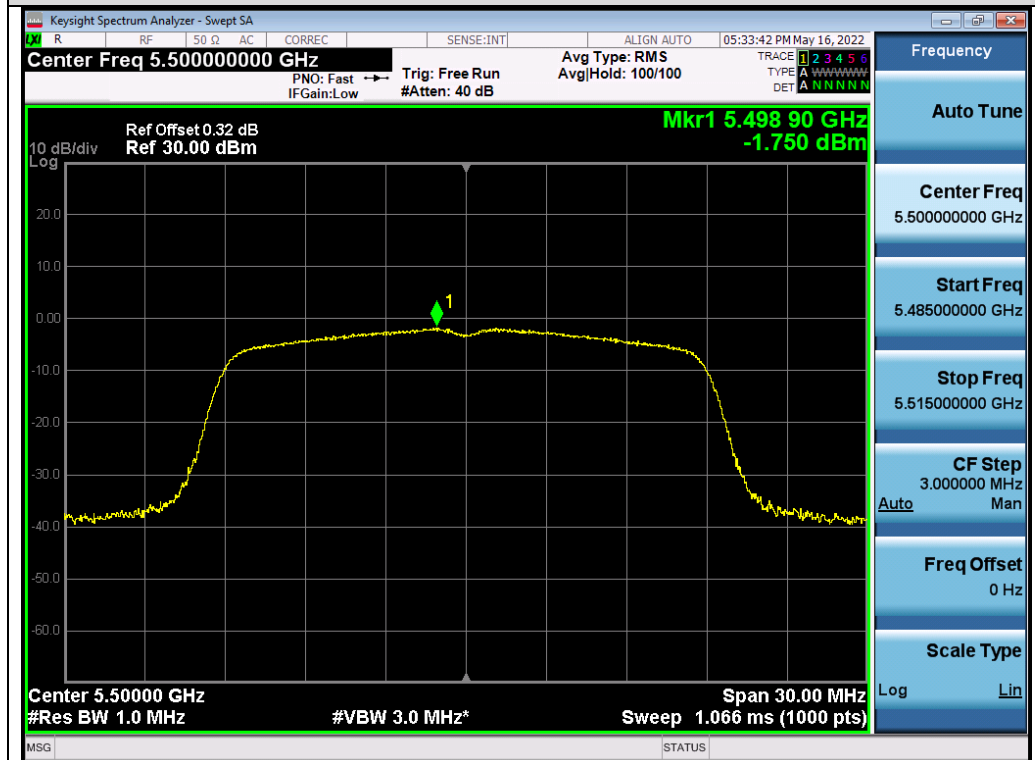


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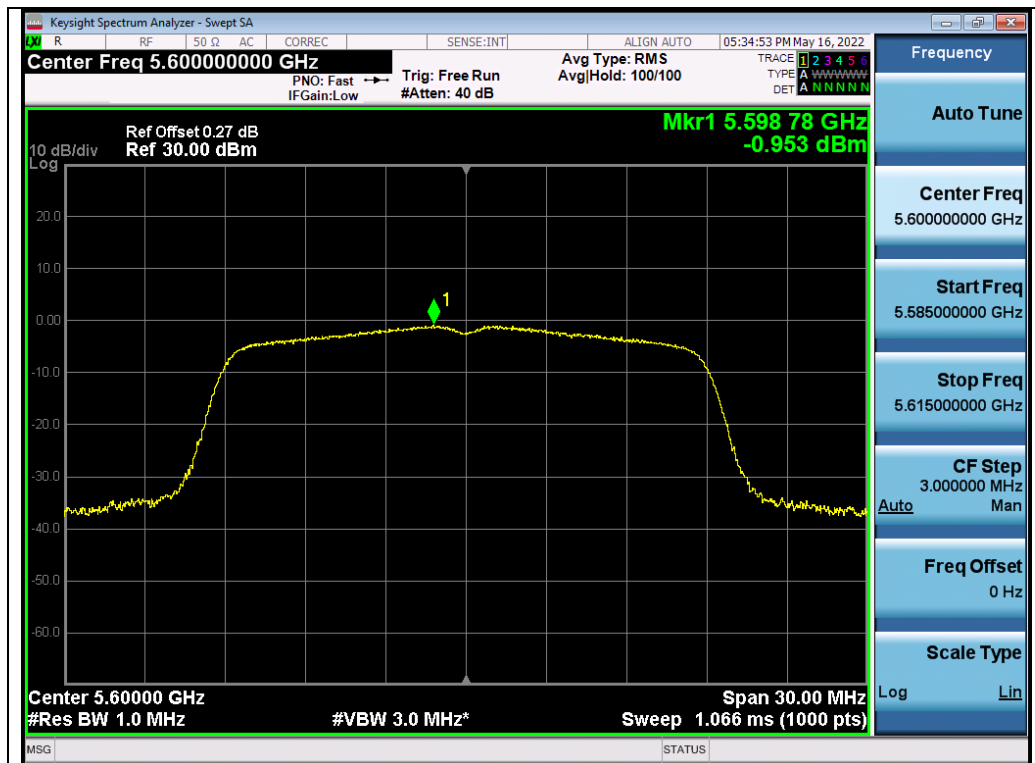


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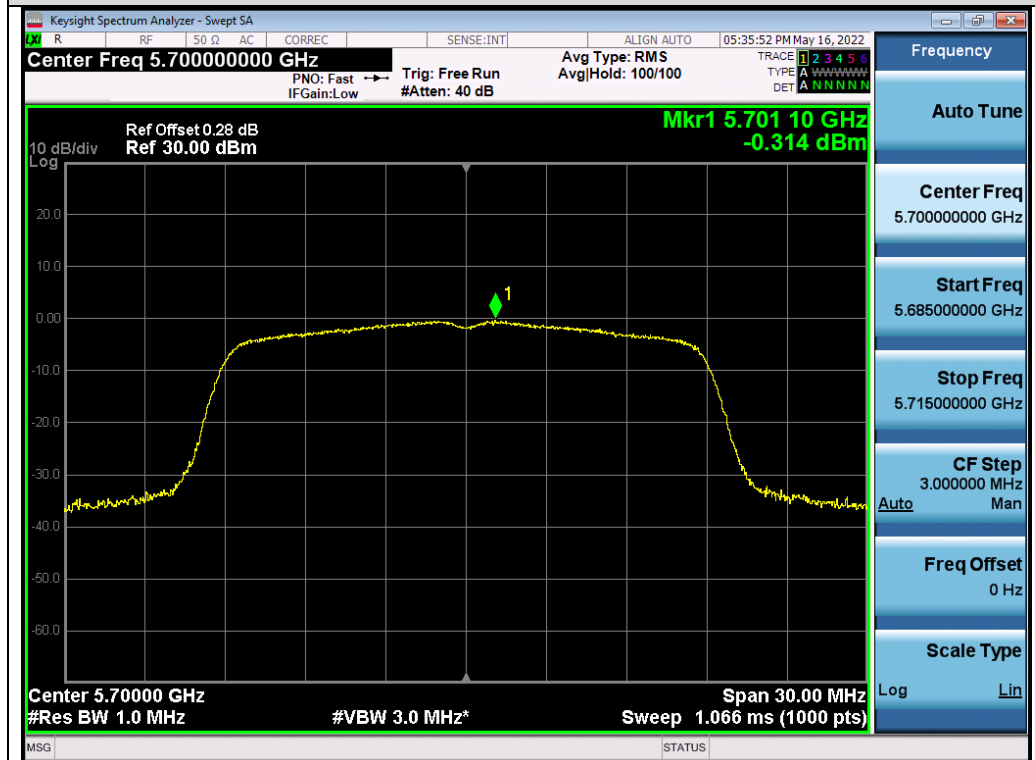


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Test_Graph_802.11ac20_ANT1_5600_MCS0_PSD

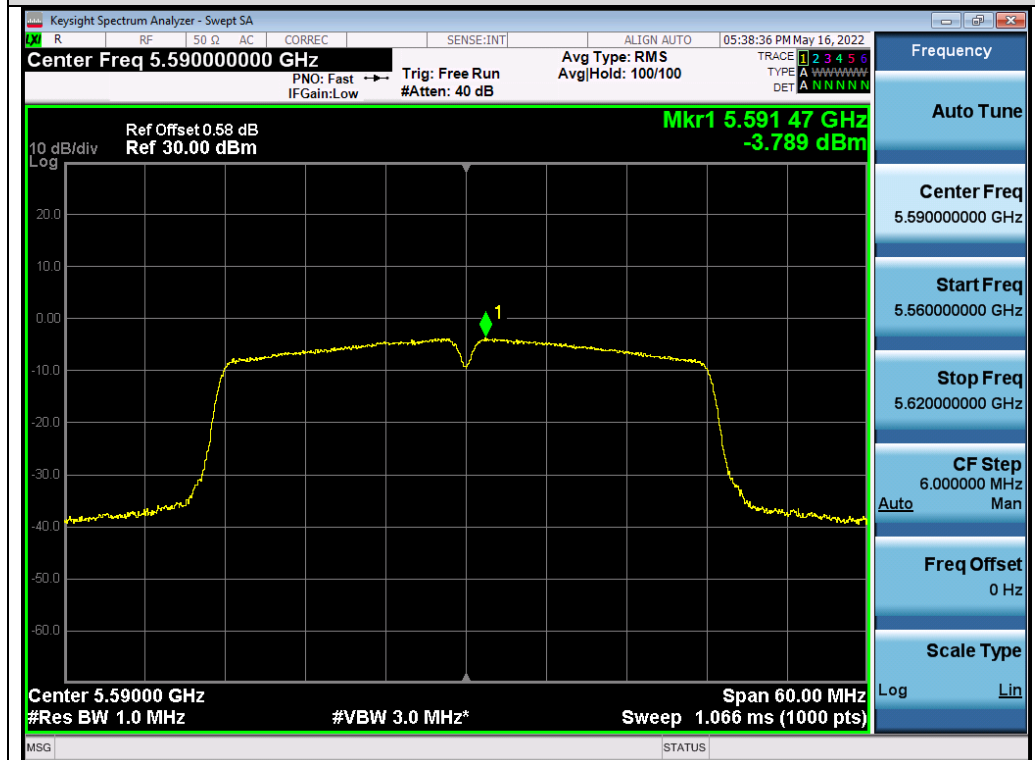


Test_Graph_802.11ac20_ANT1_5700_MCS9_PSD

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Test_Graph_802.11ac40_ANT1_5510_MCS9_PSD

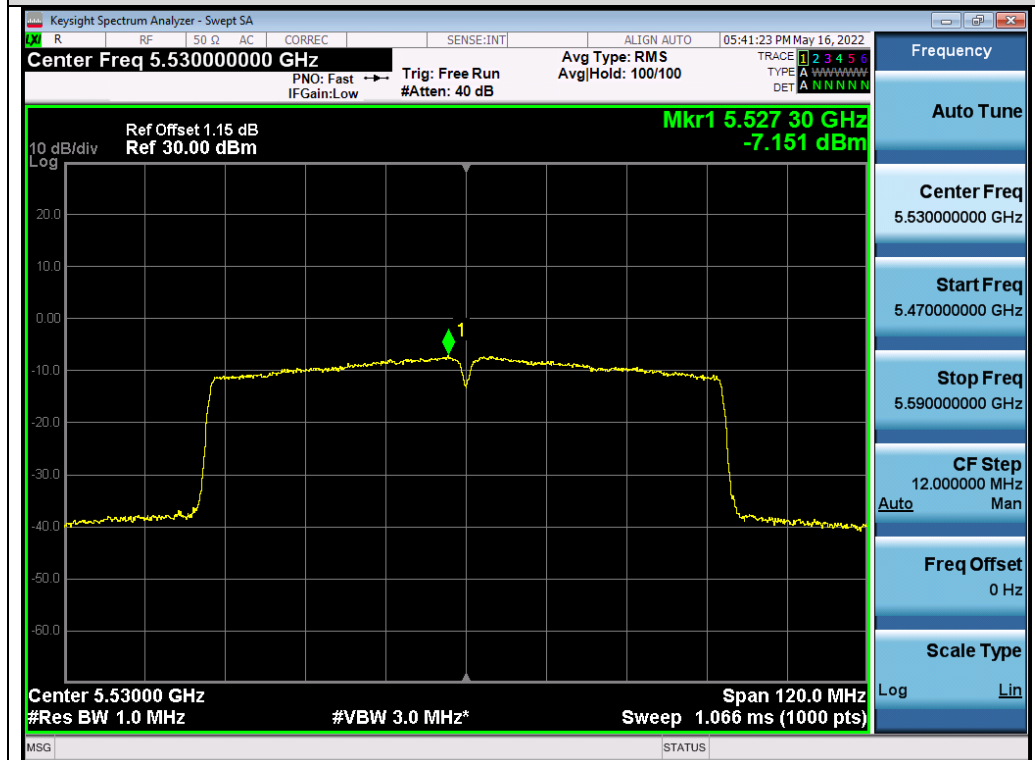


Test_Graph_802.11ac40_ANT1_5590_MCS9_PSD

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Test_Graph_802.11ac40_ANT1_5670_MCS9_PSD



Test_Graph_802.11ac80_ANT1_5530_MCS9_PSD

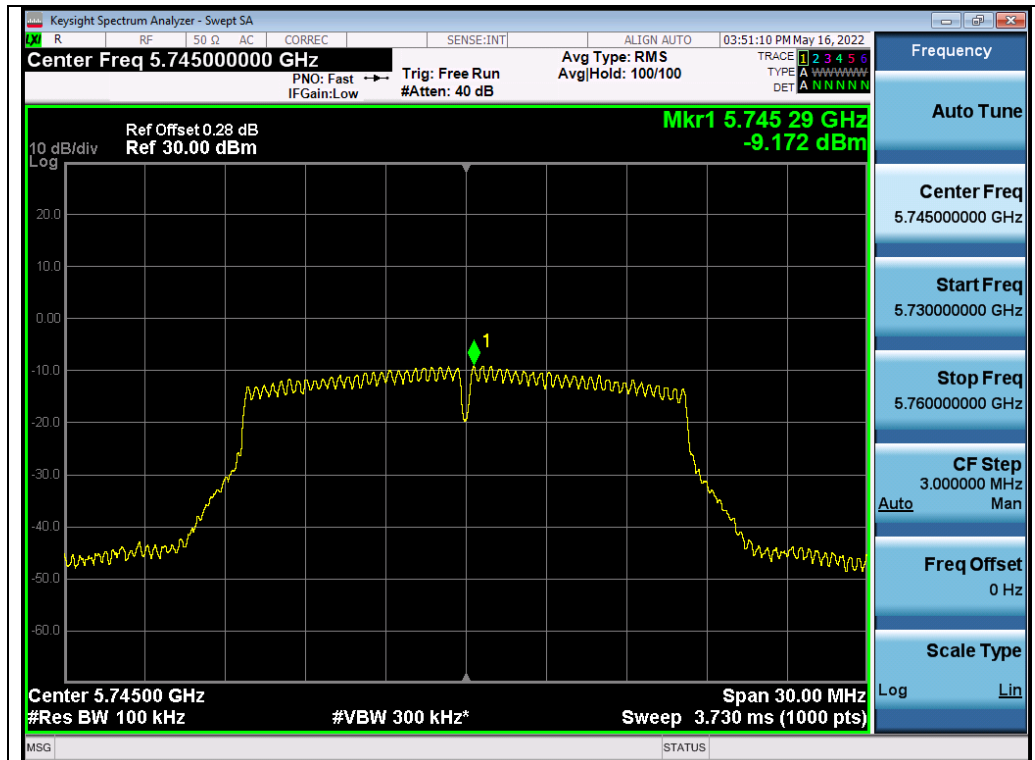
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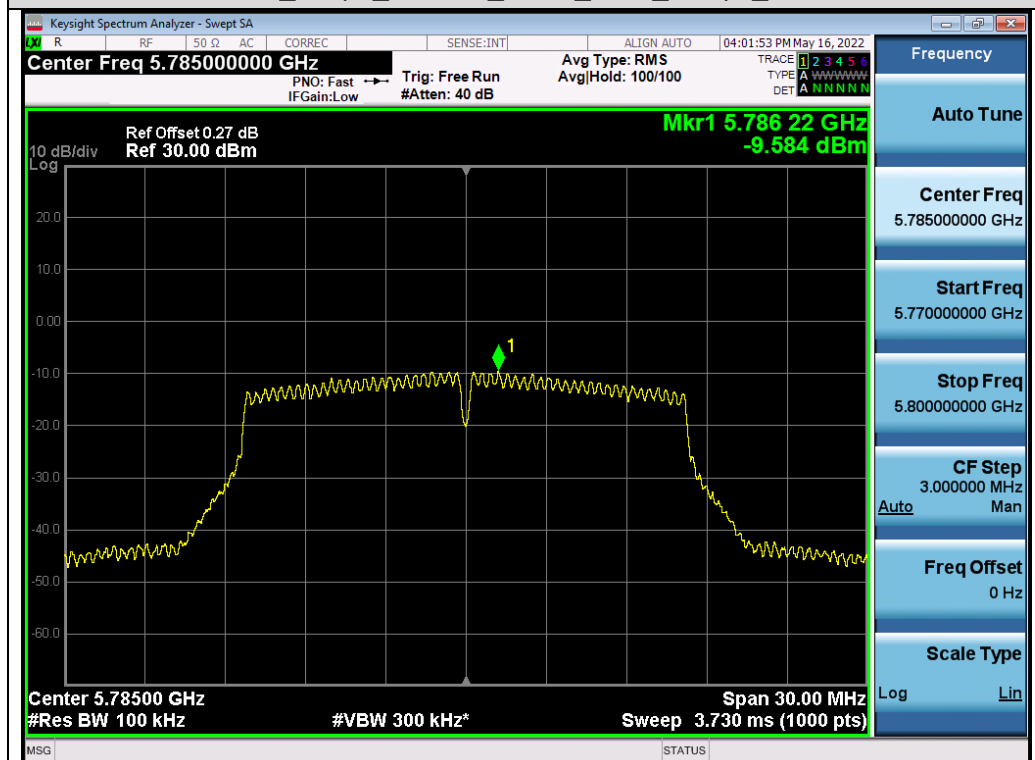
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

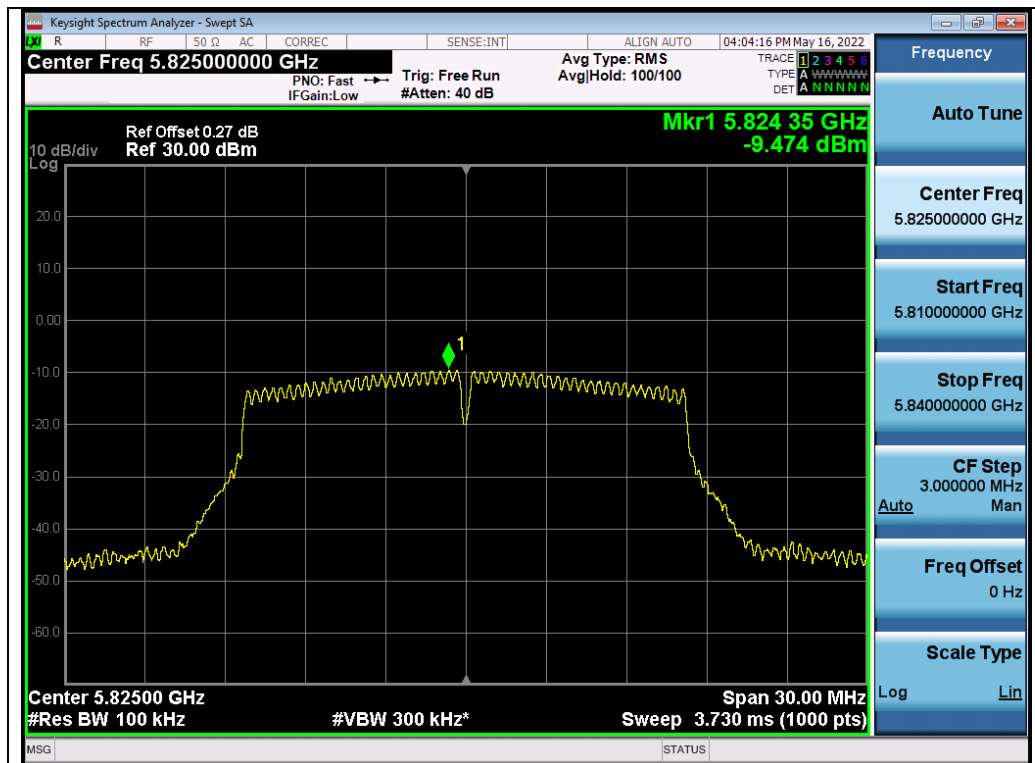


Test_Graph_802.11a_ANT1_5745_6Mbps_PSD

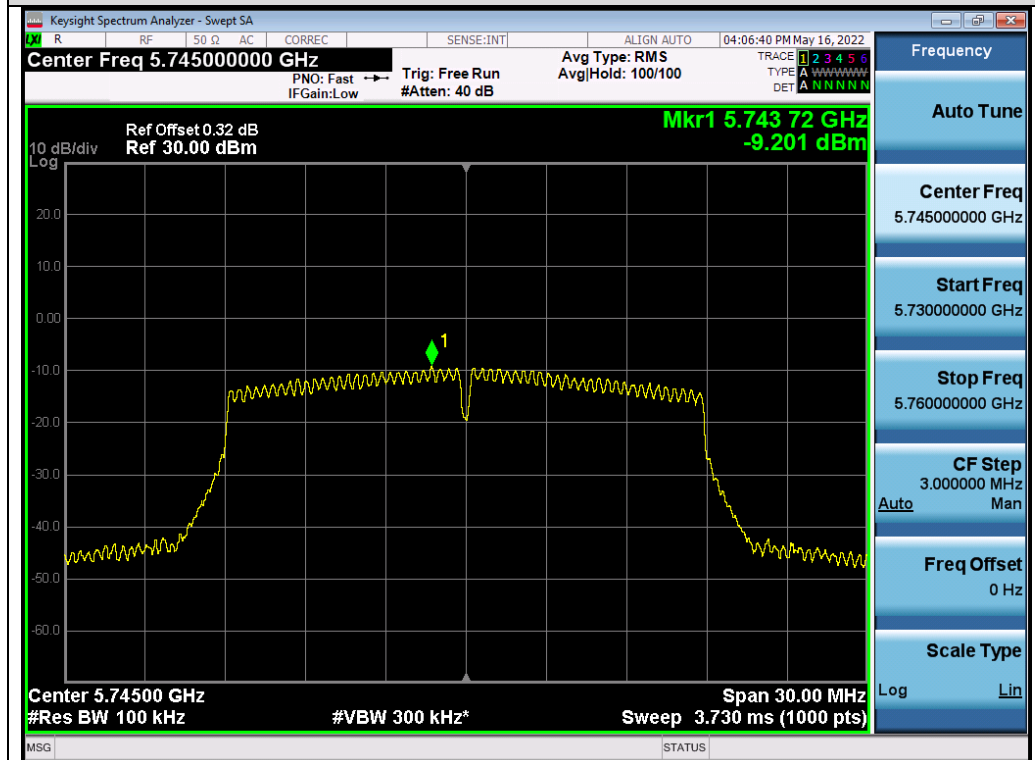


Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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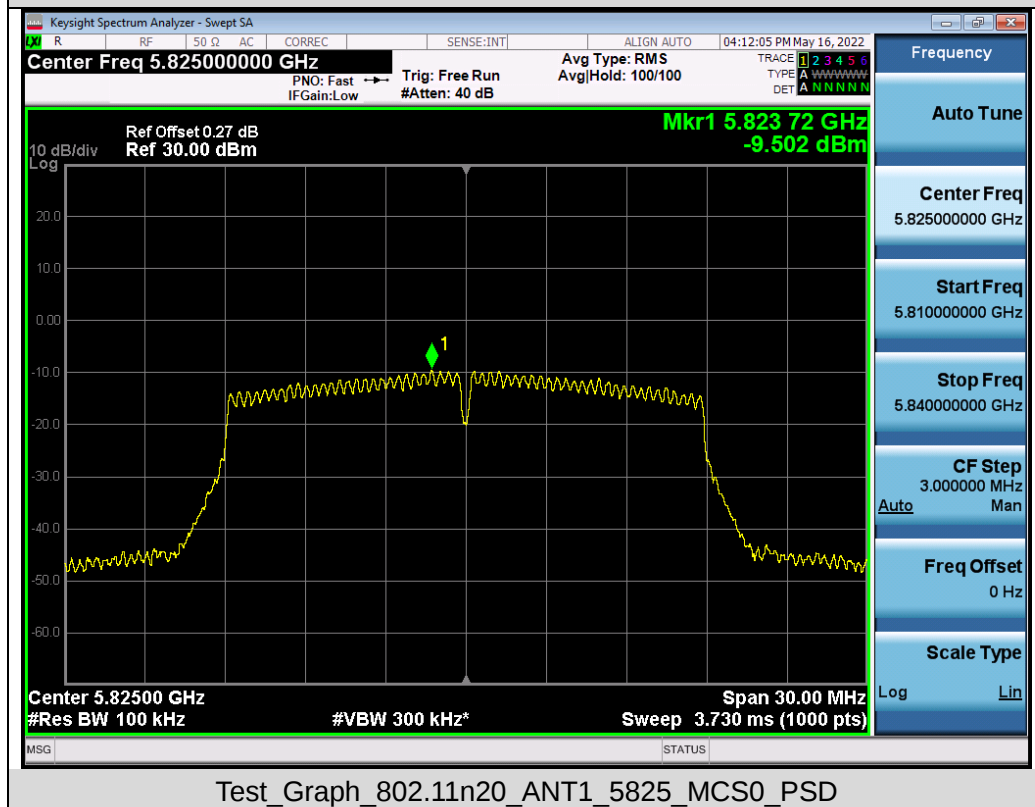
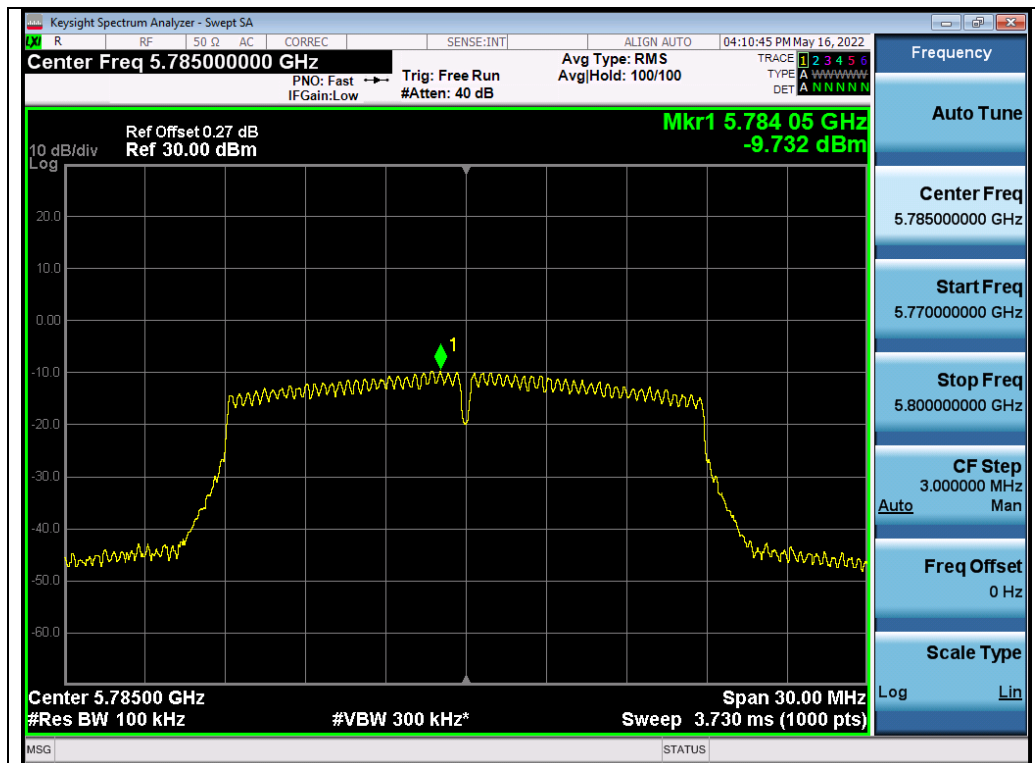


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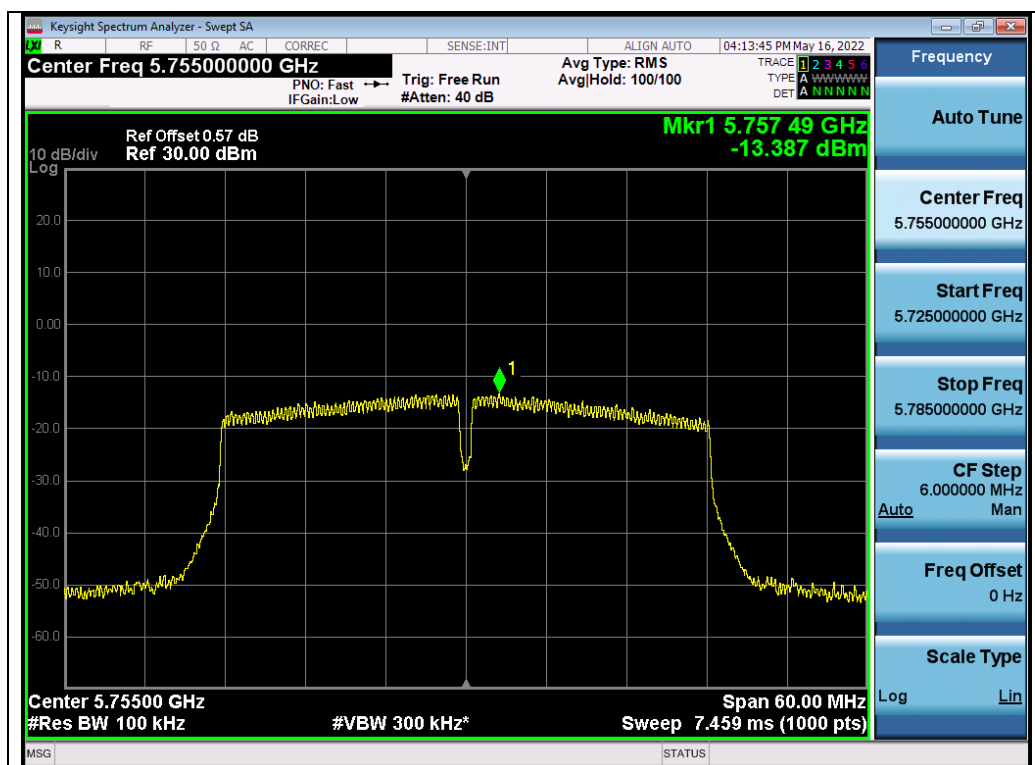
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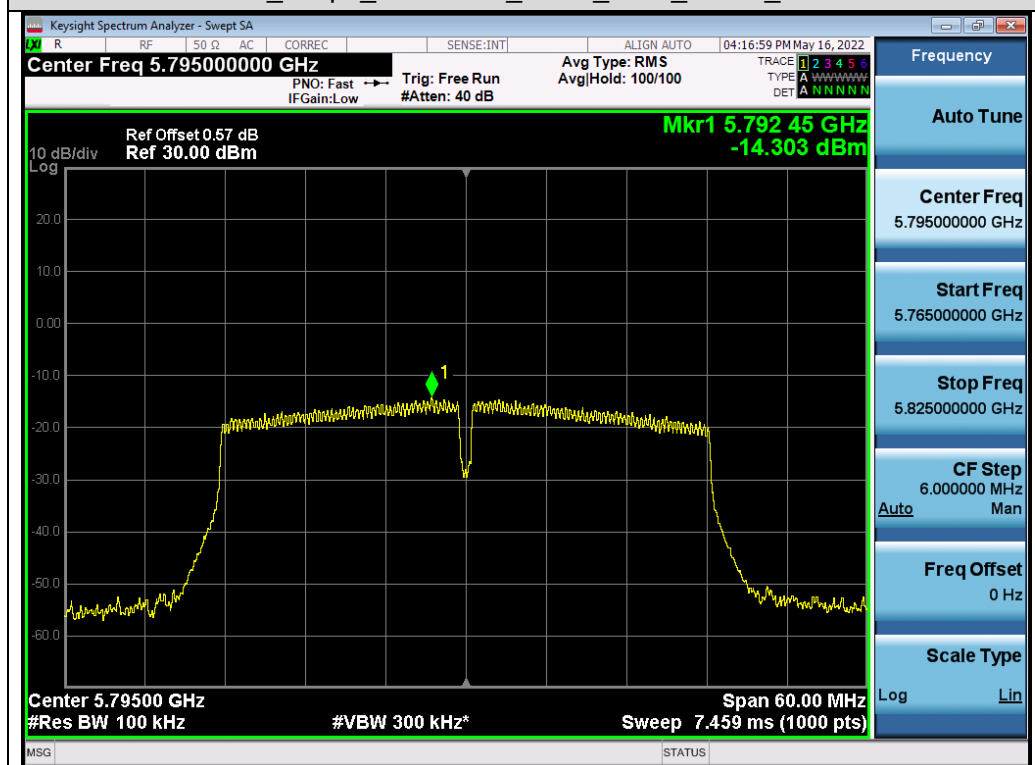


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Test_Graph_802.11n40_ANT1_5755_MCS0_PSD



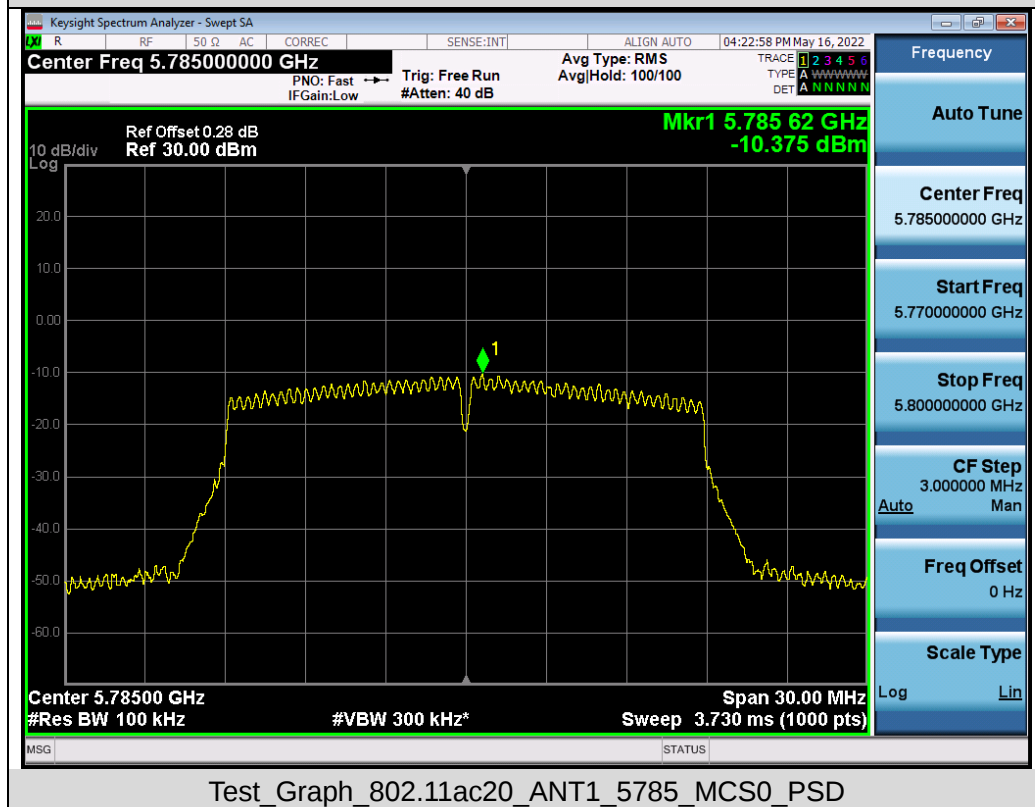
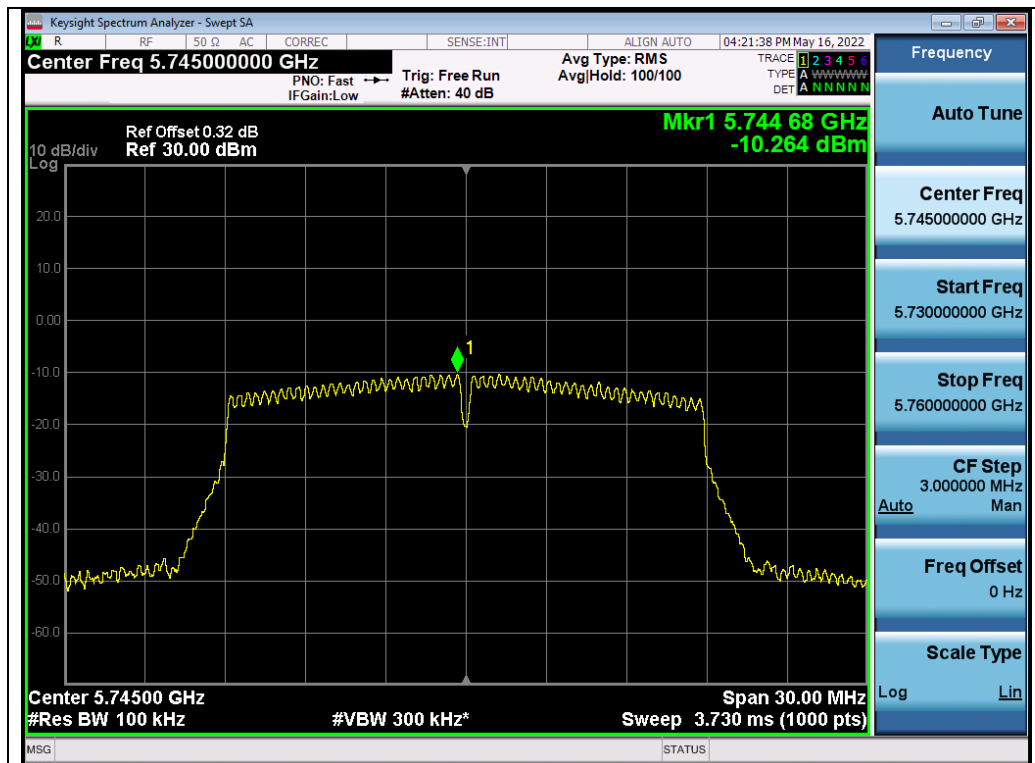
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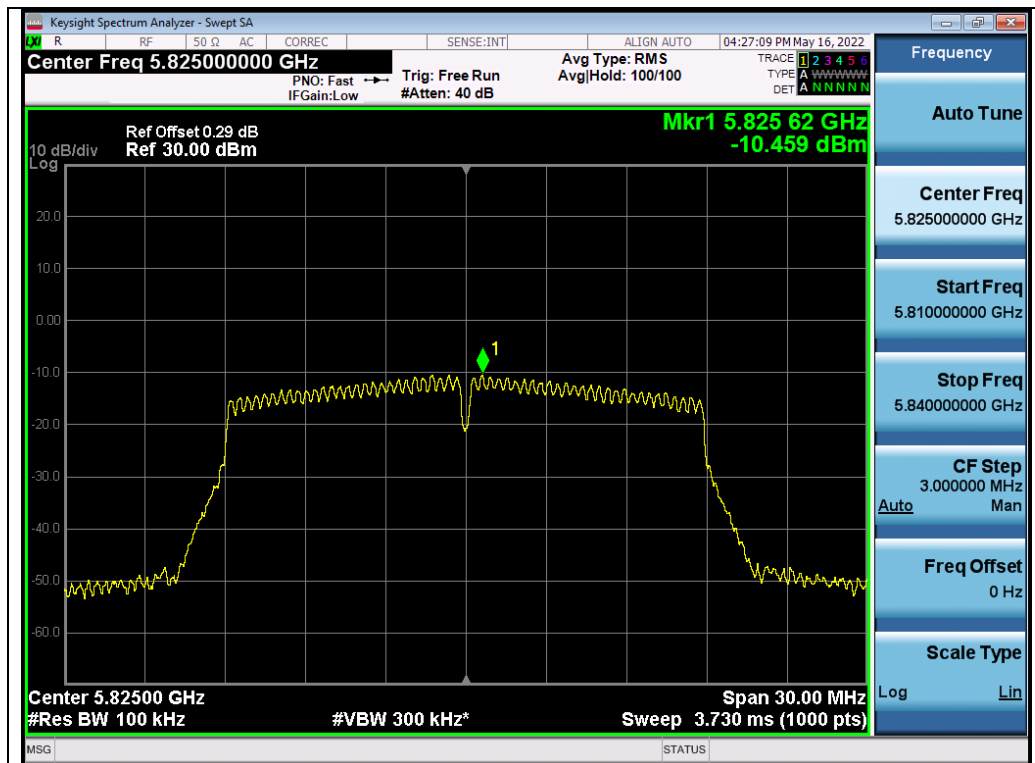
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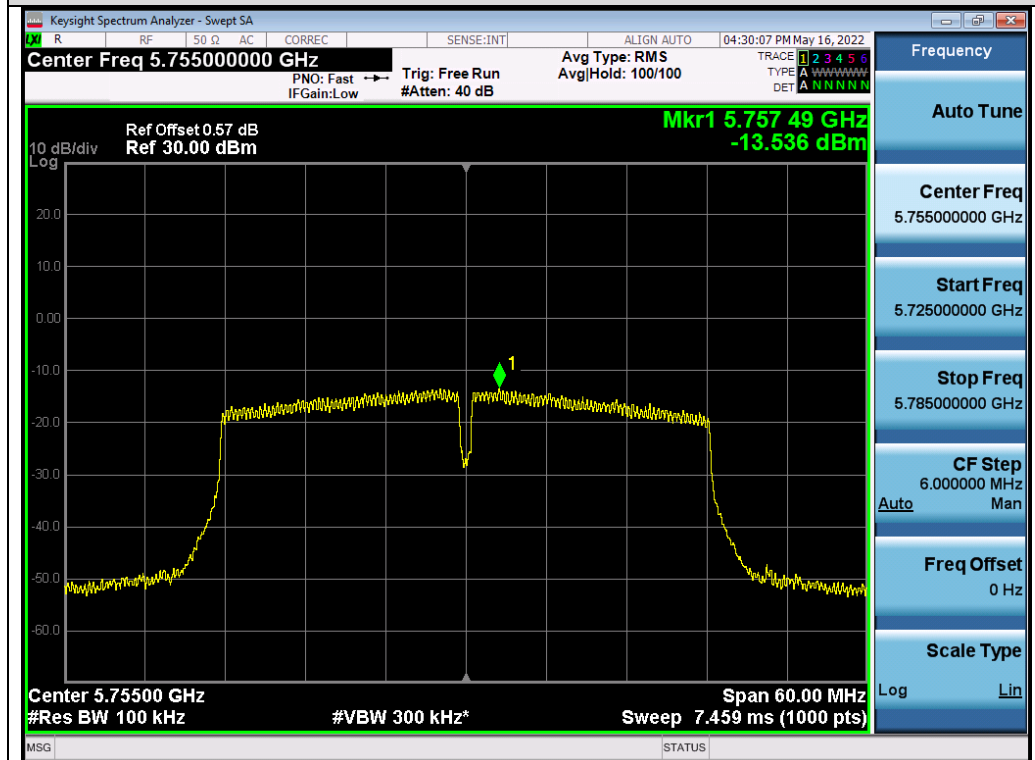
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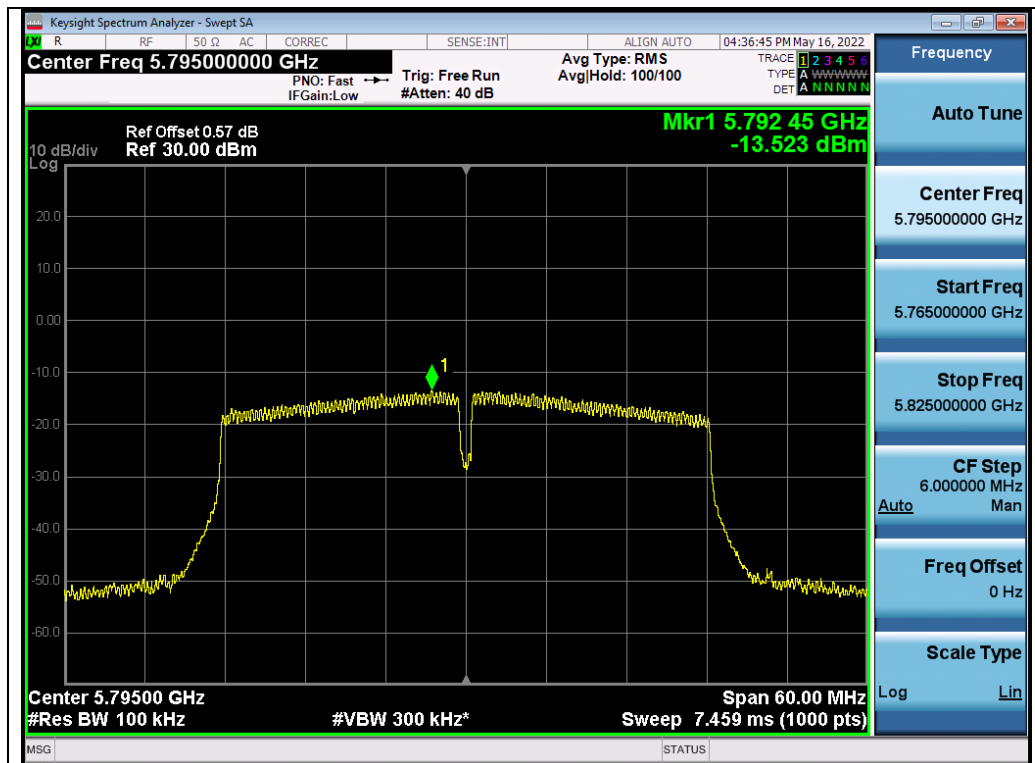


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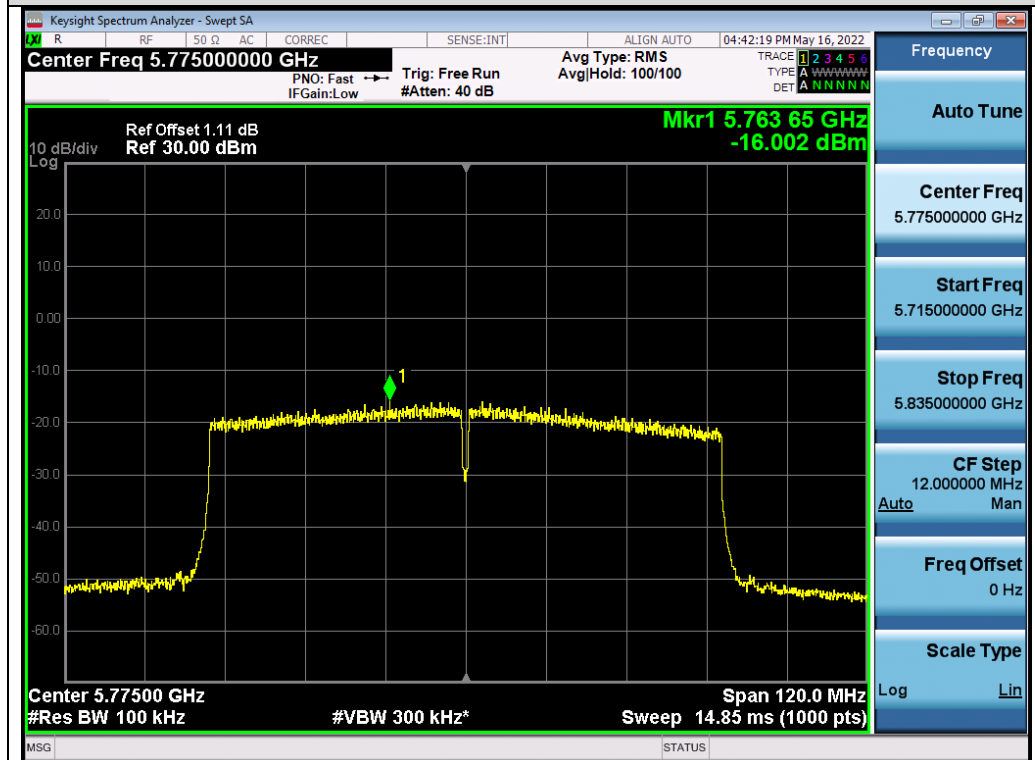


Test_Graph_802.11ac40_ANT1_5755_MCS9_PSD

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Test_Graph_802.11ac40_ANT1_5795_MCS9_PSD



Test_Graph_802.11ac80_ANT1_5775_MCS9_PSD

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10. CONDUCTED SPURIOUS EMISSION

10.1. MEASUREMENT PROCEDURE

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 SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

10.3. MEASUREMENT EQUIPMENT USED

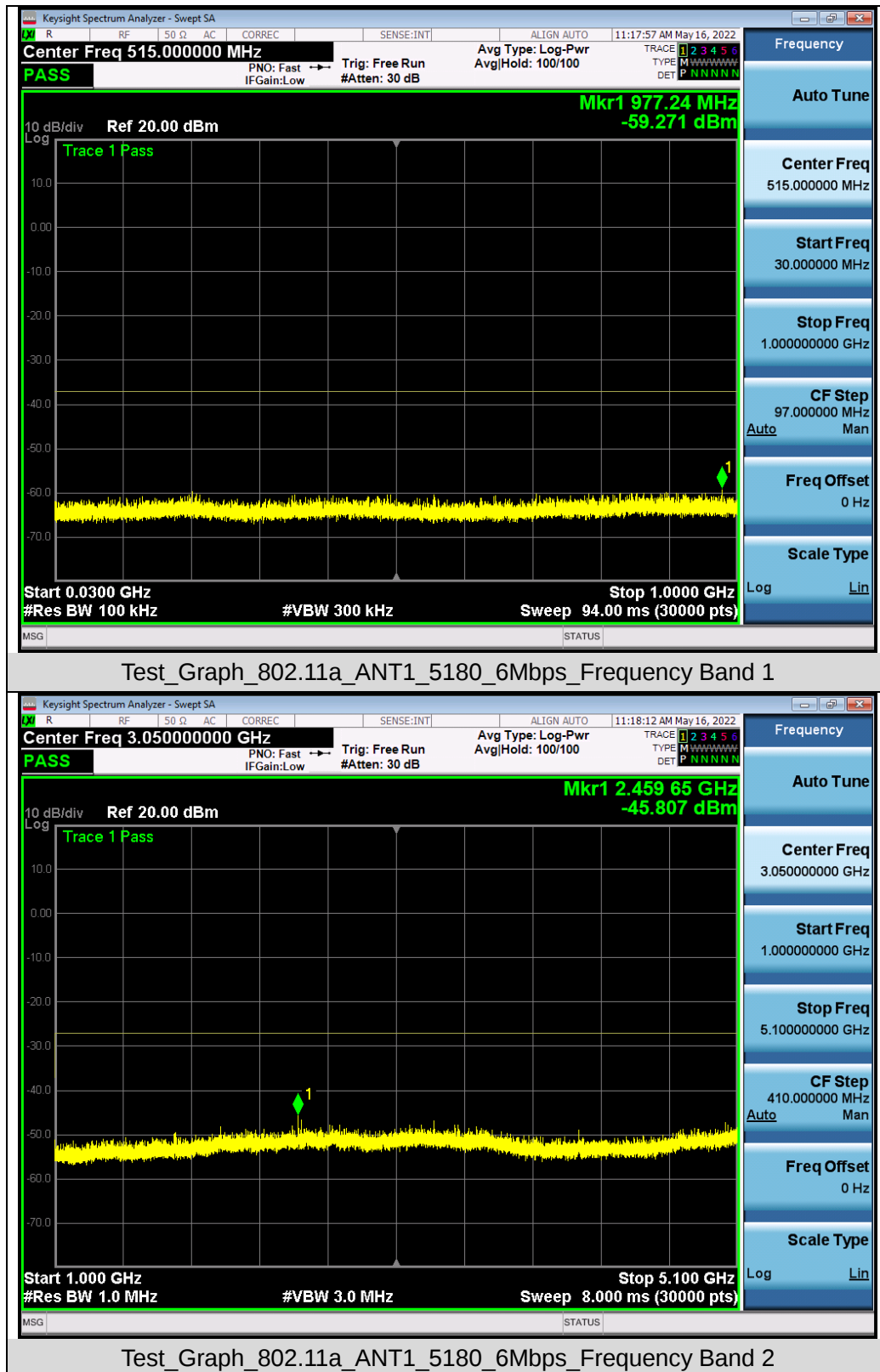
The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

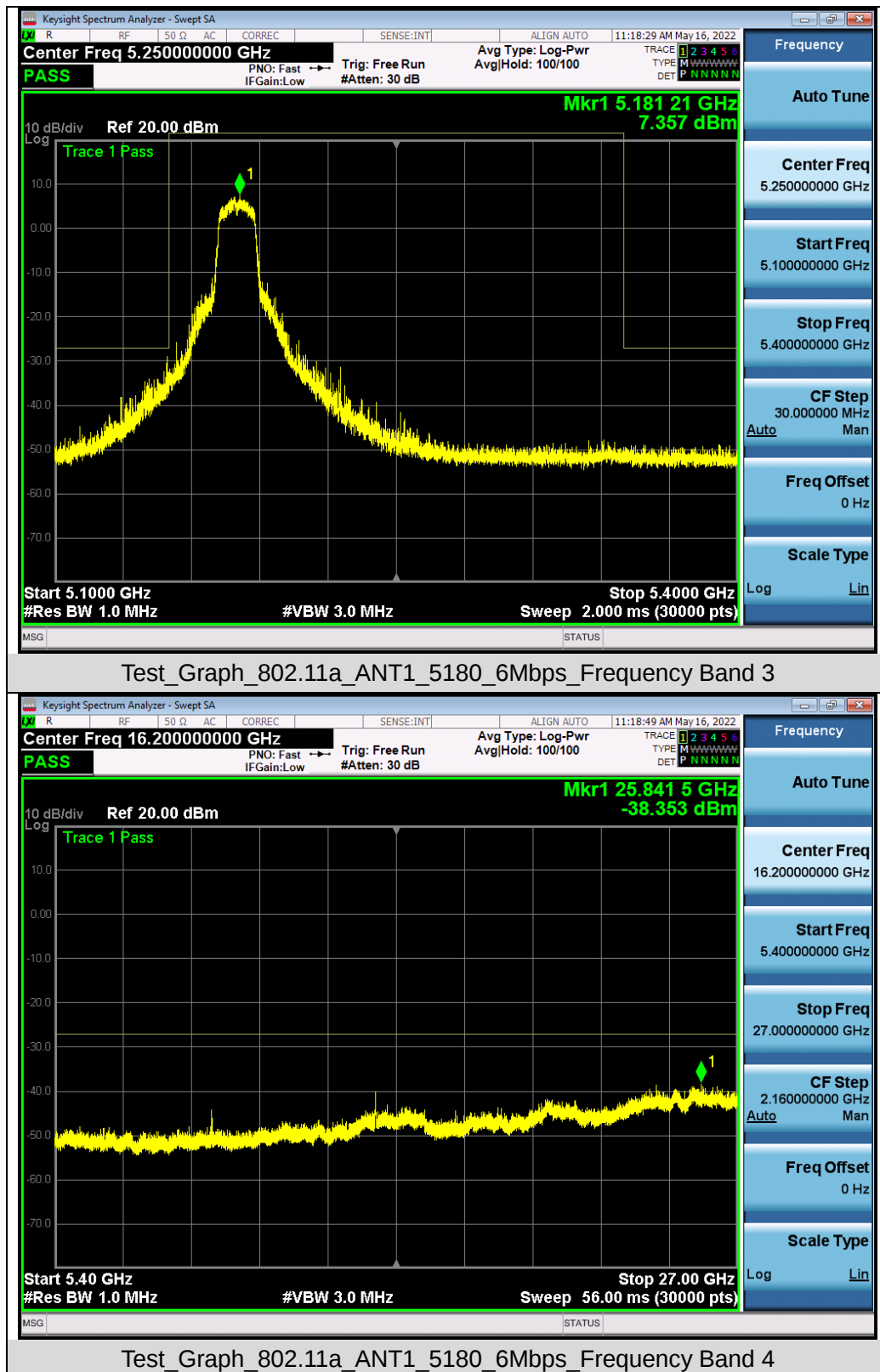
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteri a
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, 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.	5725MHz-5850MHz	PASS

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.

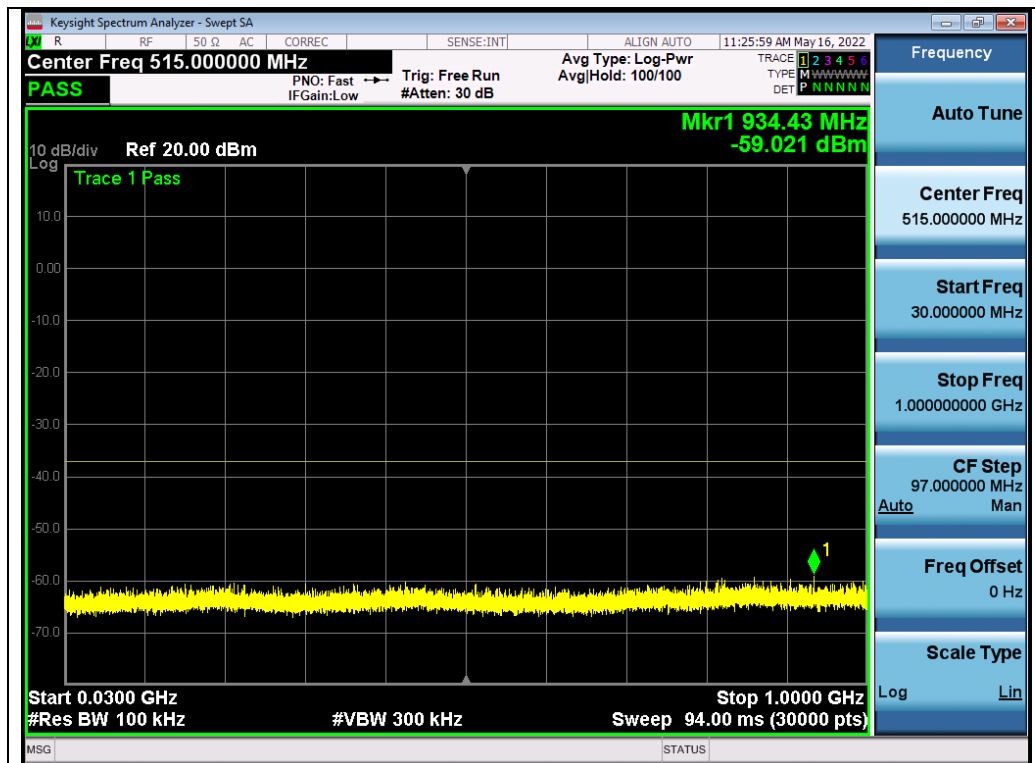
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band



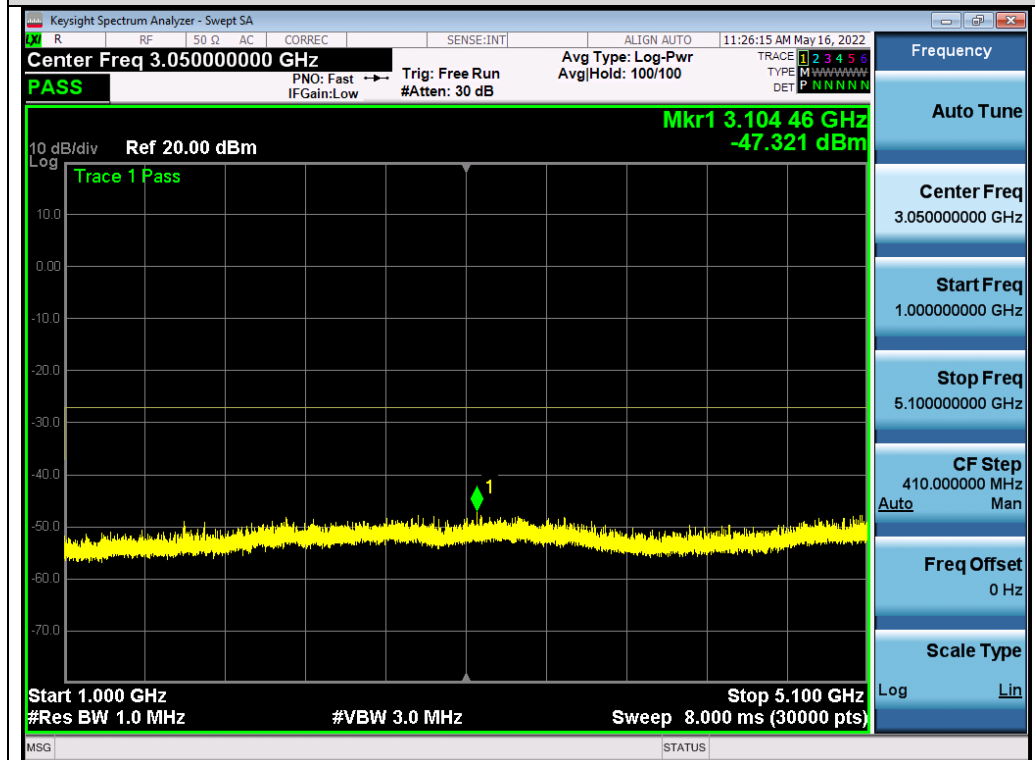
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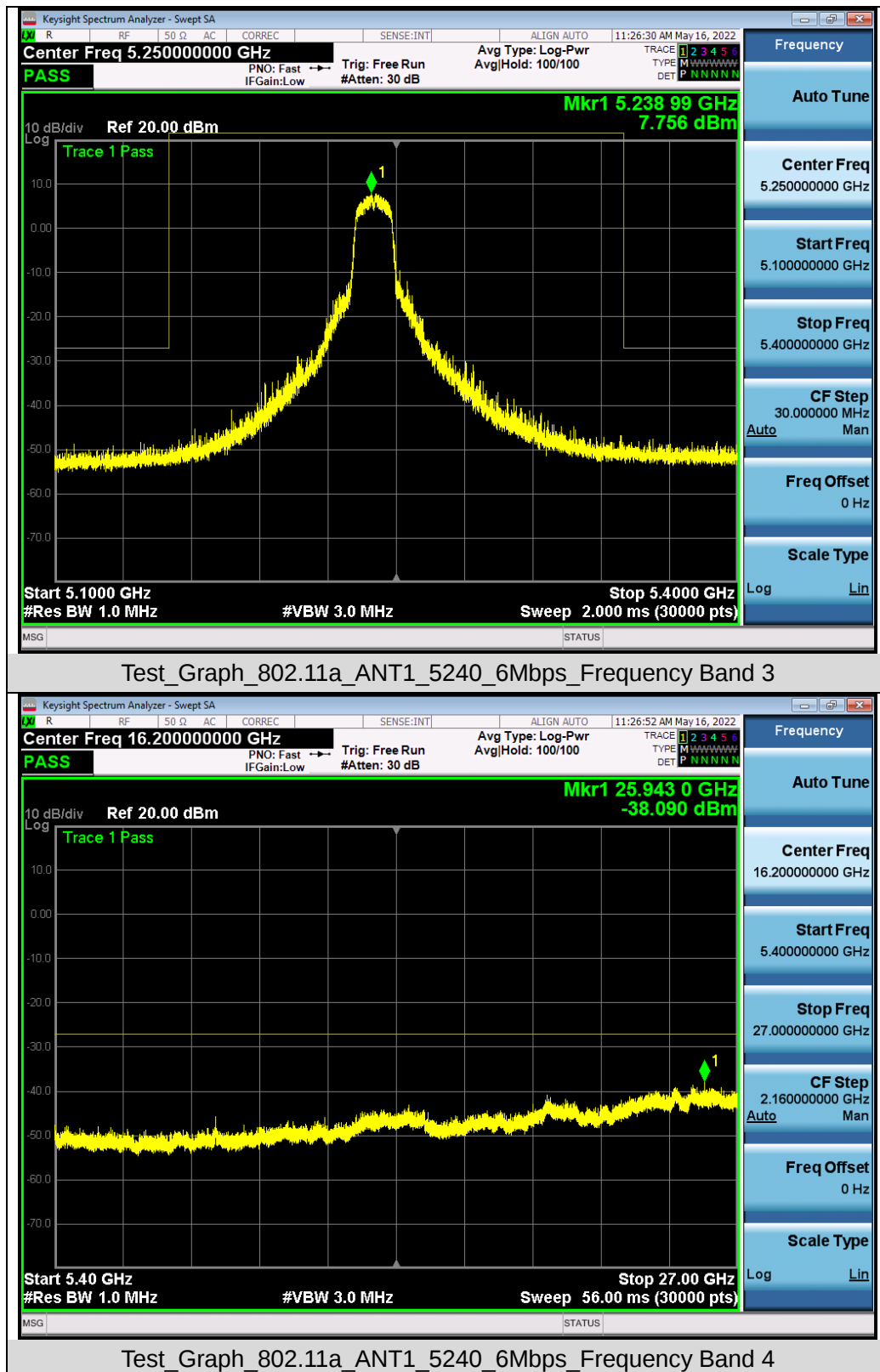


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 1

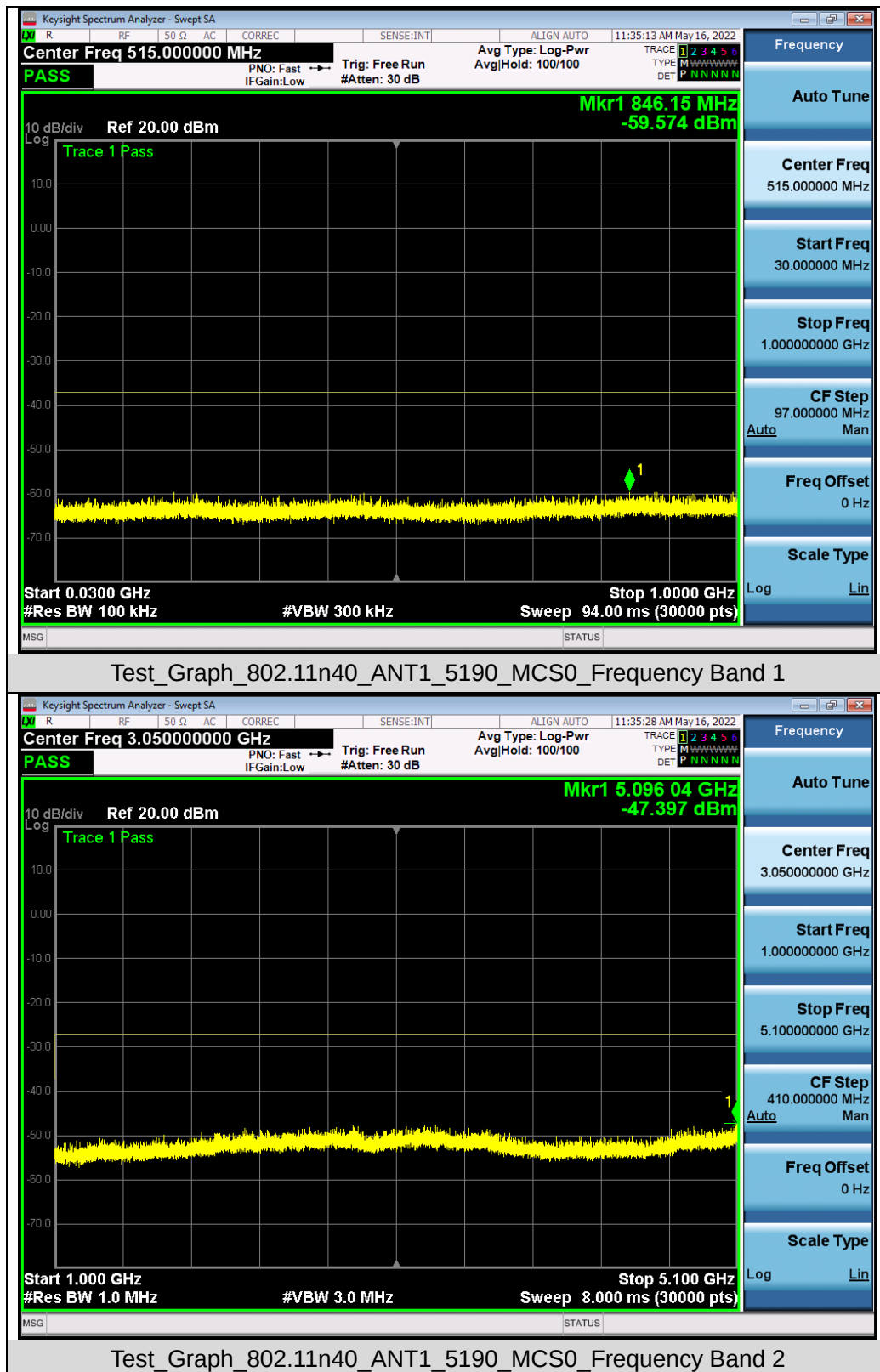


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 2

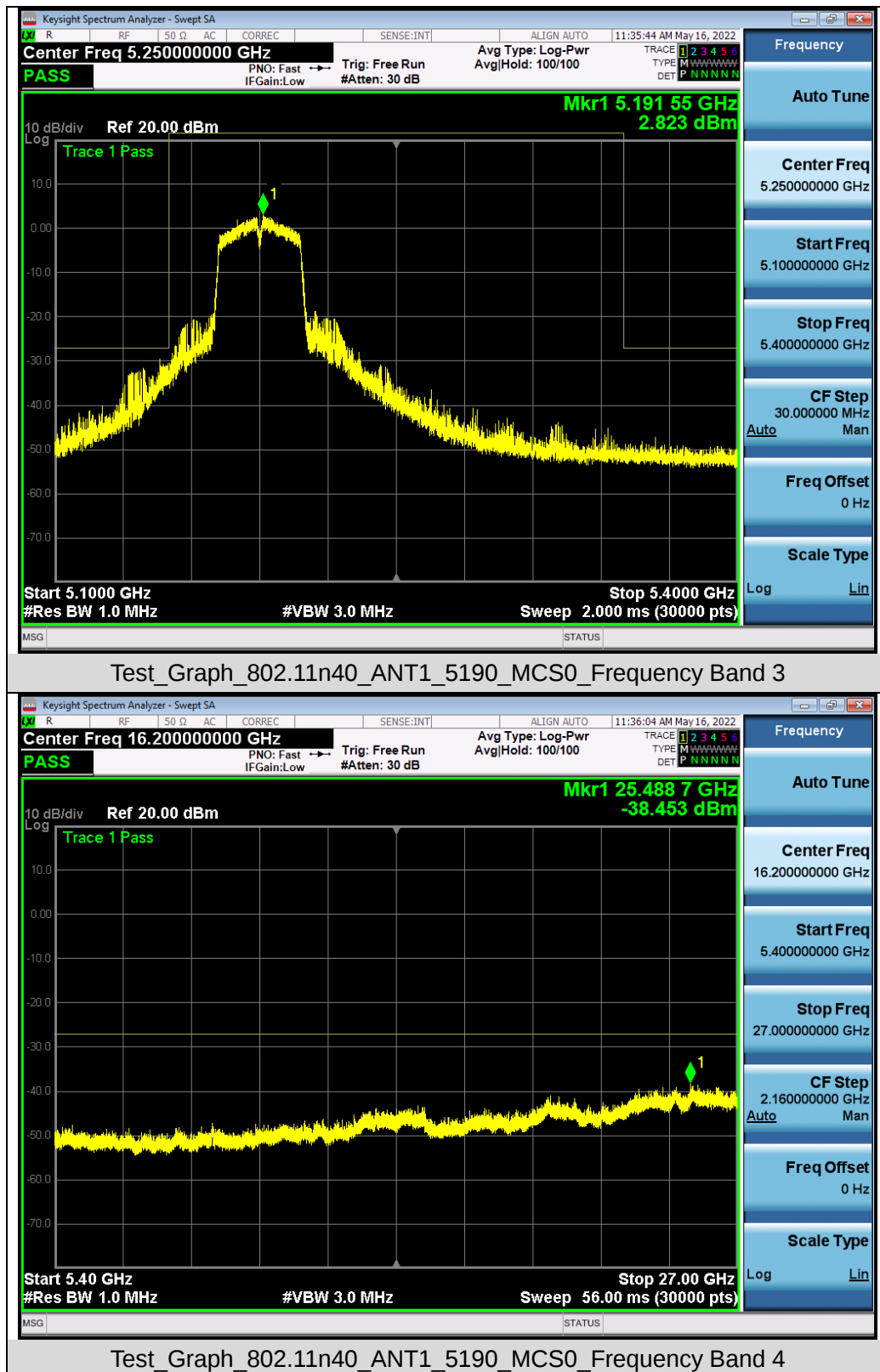
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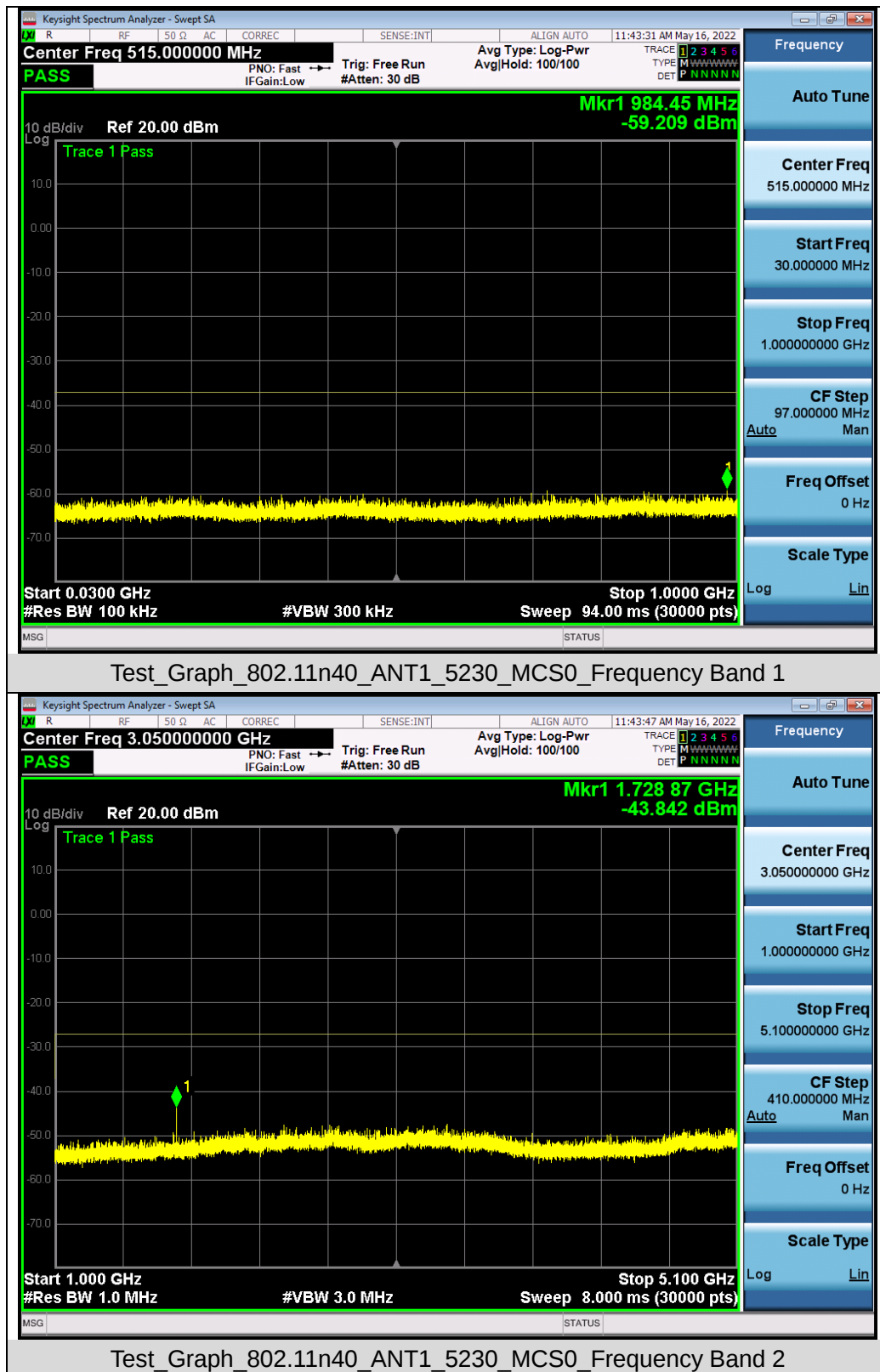
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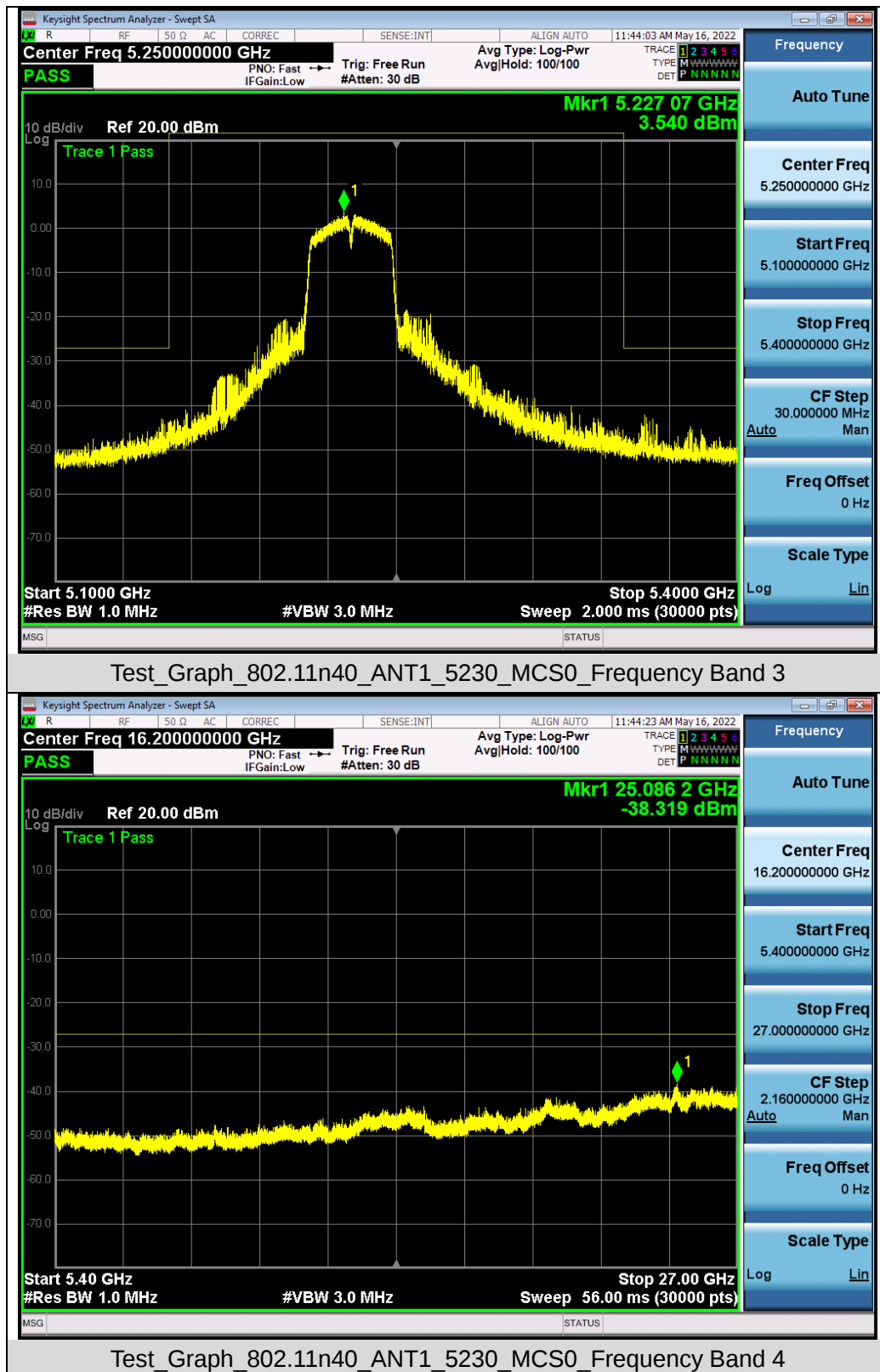
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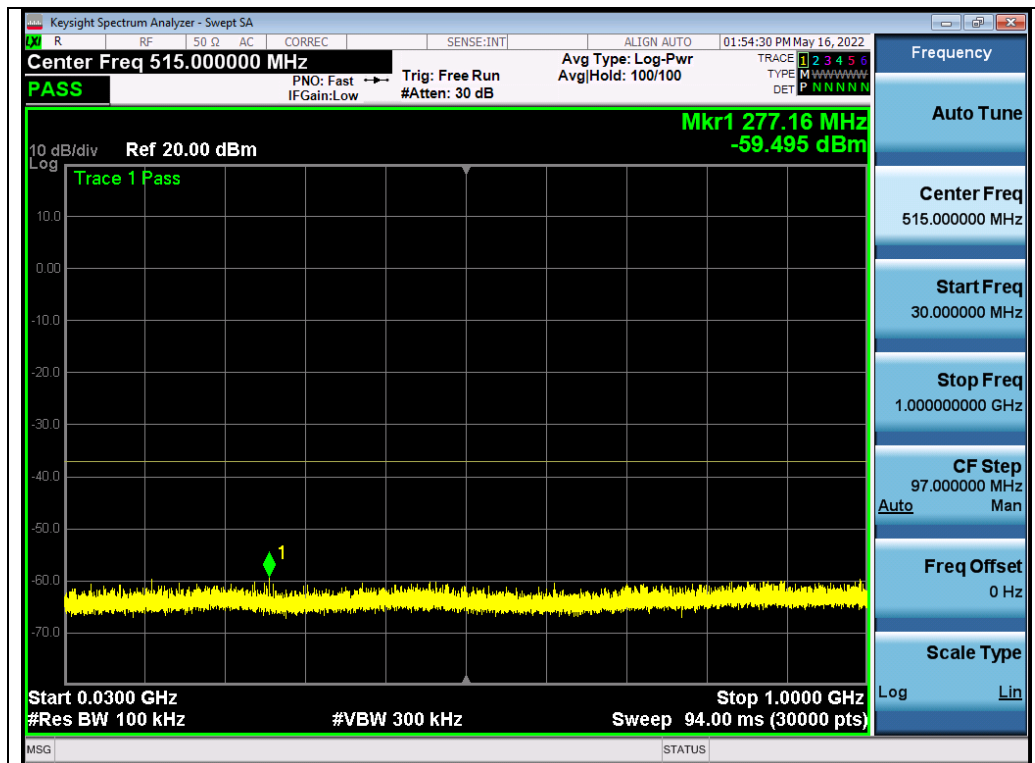
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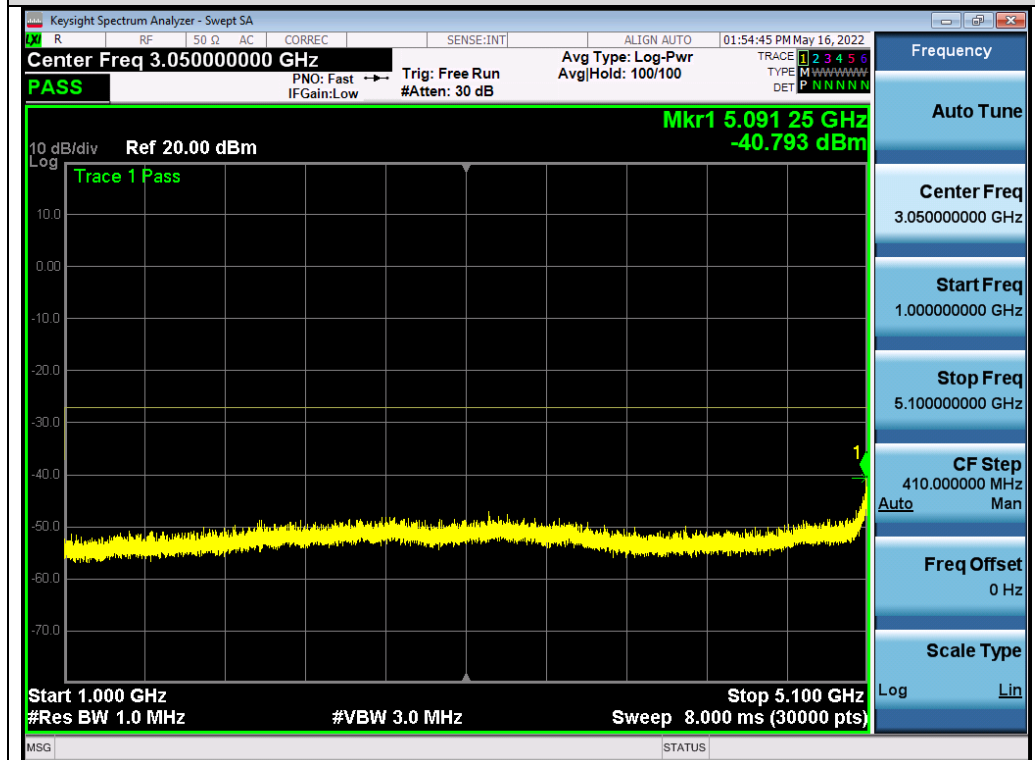
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Test_Graph_802.11ac80_ANT1_5210_MCS9_Frequency Band 1

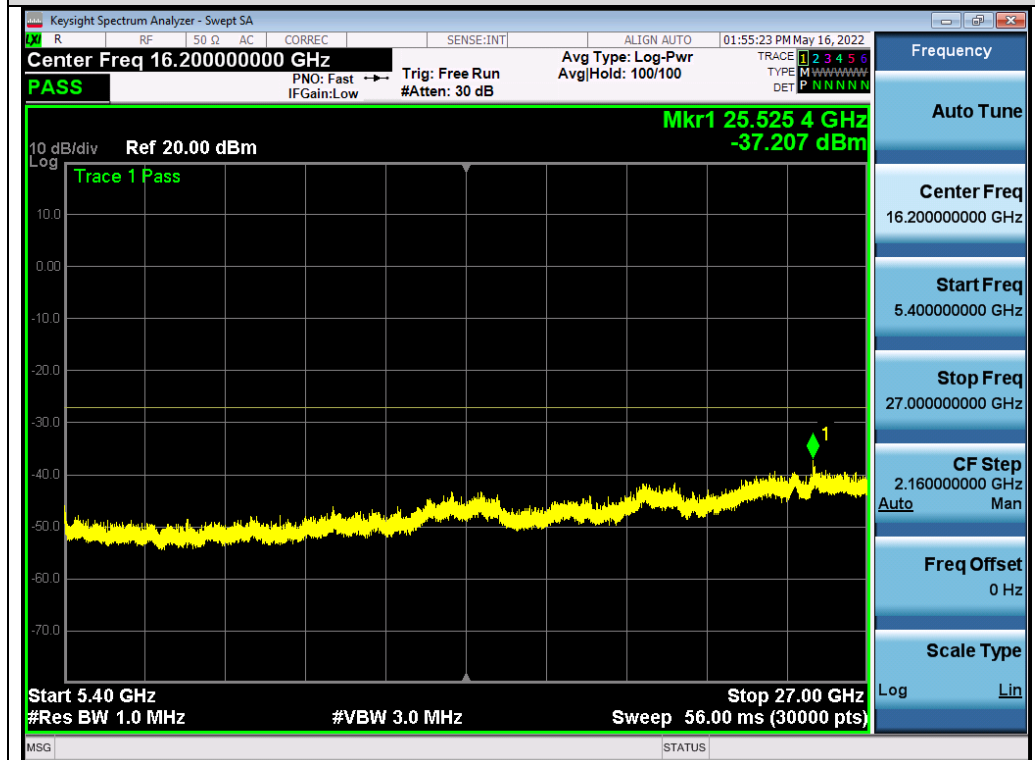


Test_Graph_802.11ac80_ANT1_5210_MCS9_Frequency Band 2

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Test_Graph_802.11ac80_ANT1_5210_MCS9_Frequency Band 3

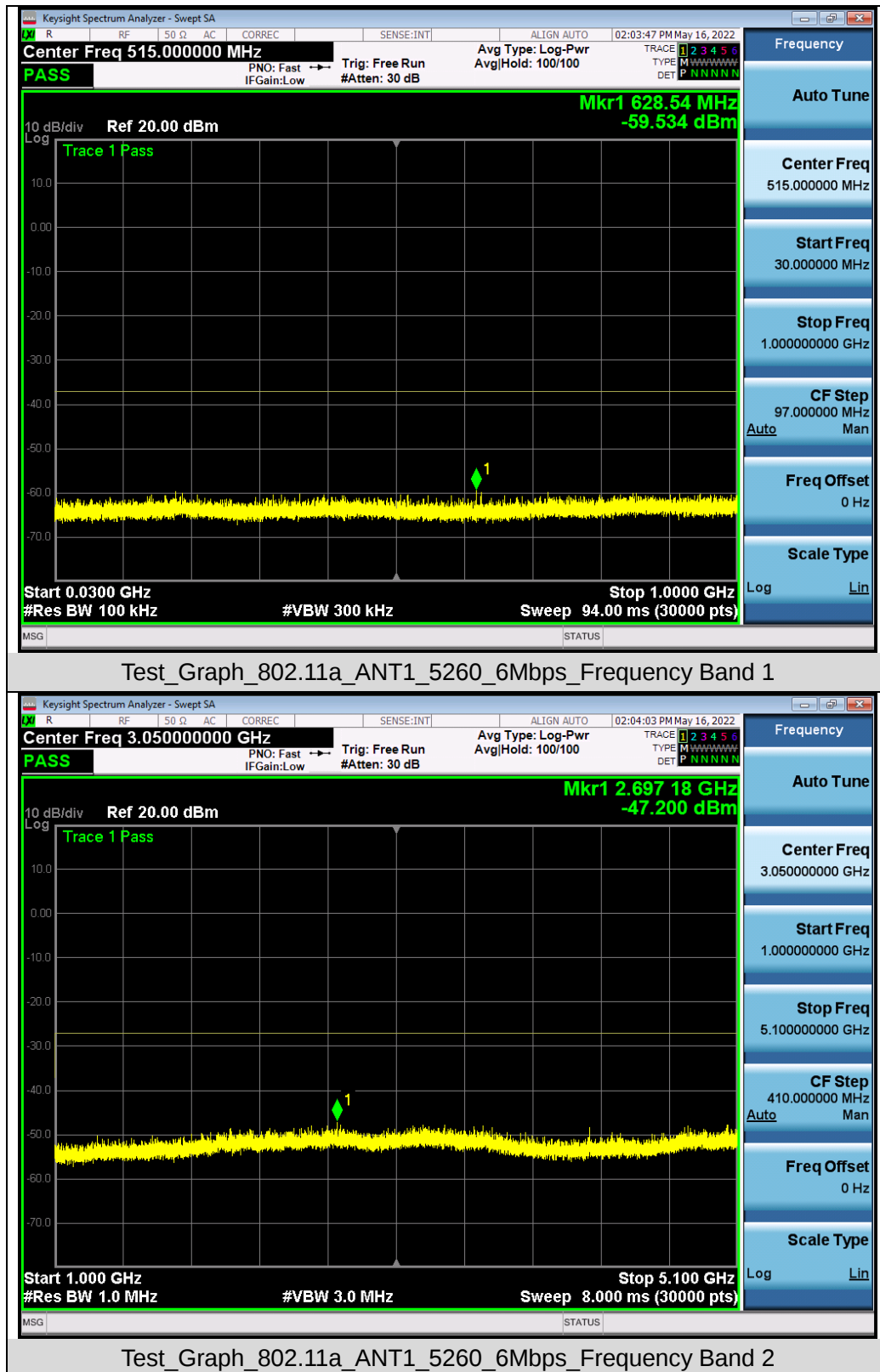


Test_Graph_802.11ac80_ANT1_5210_MCS9_Frequency Band 4

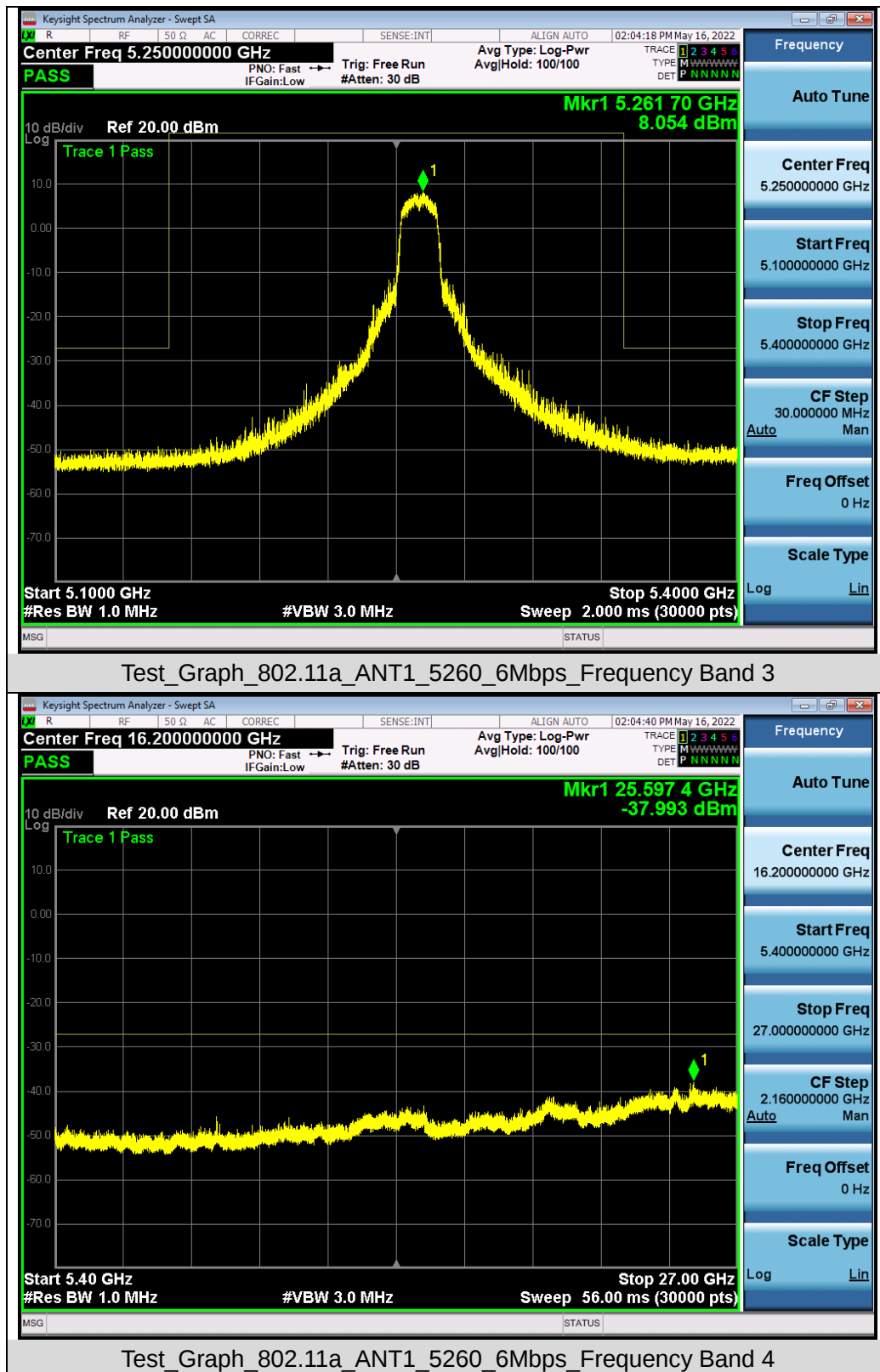
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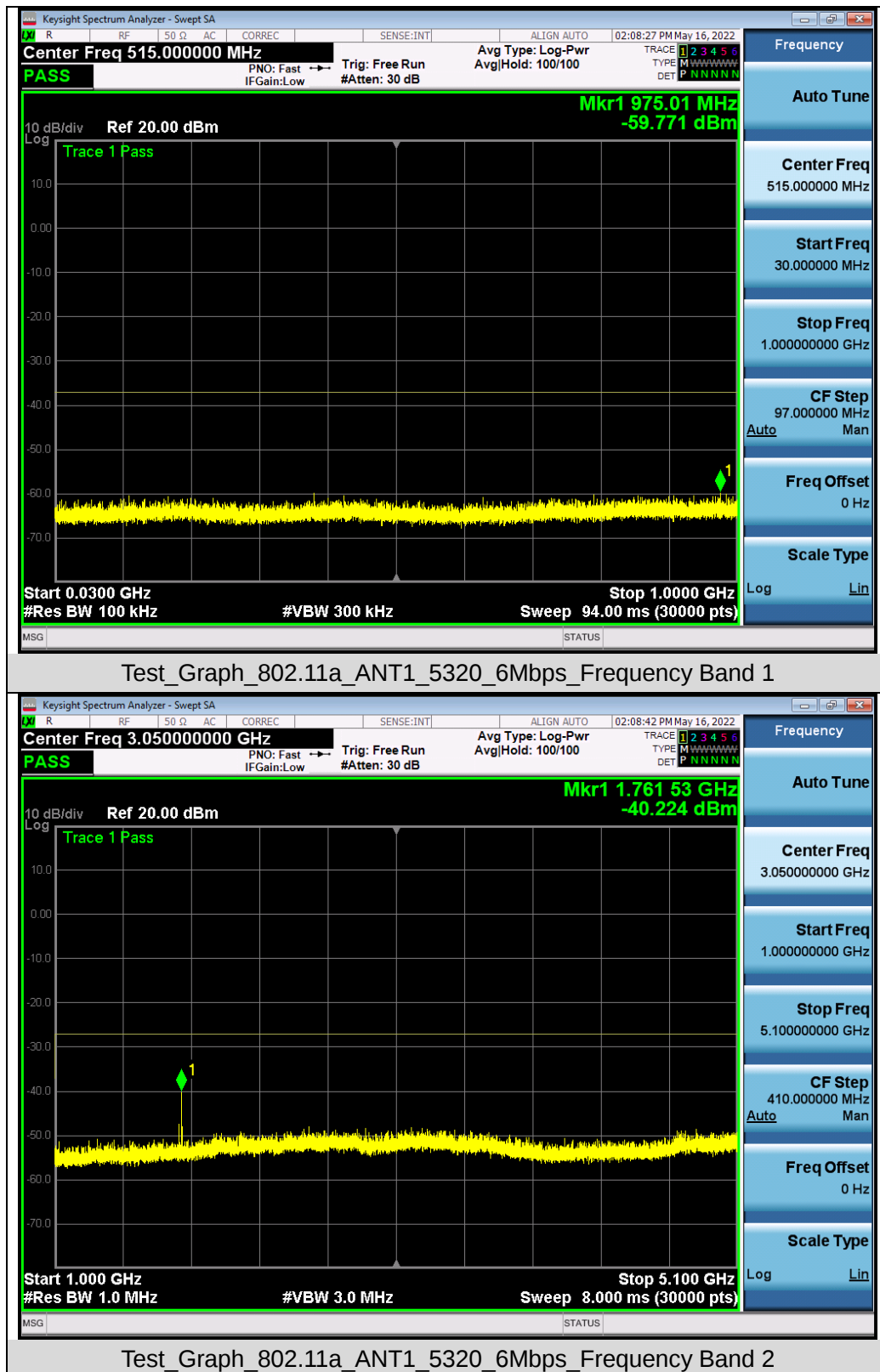
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band



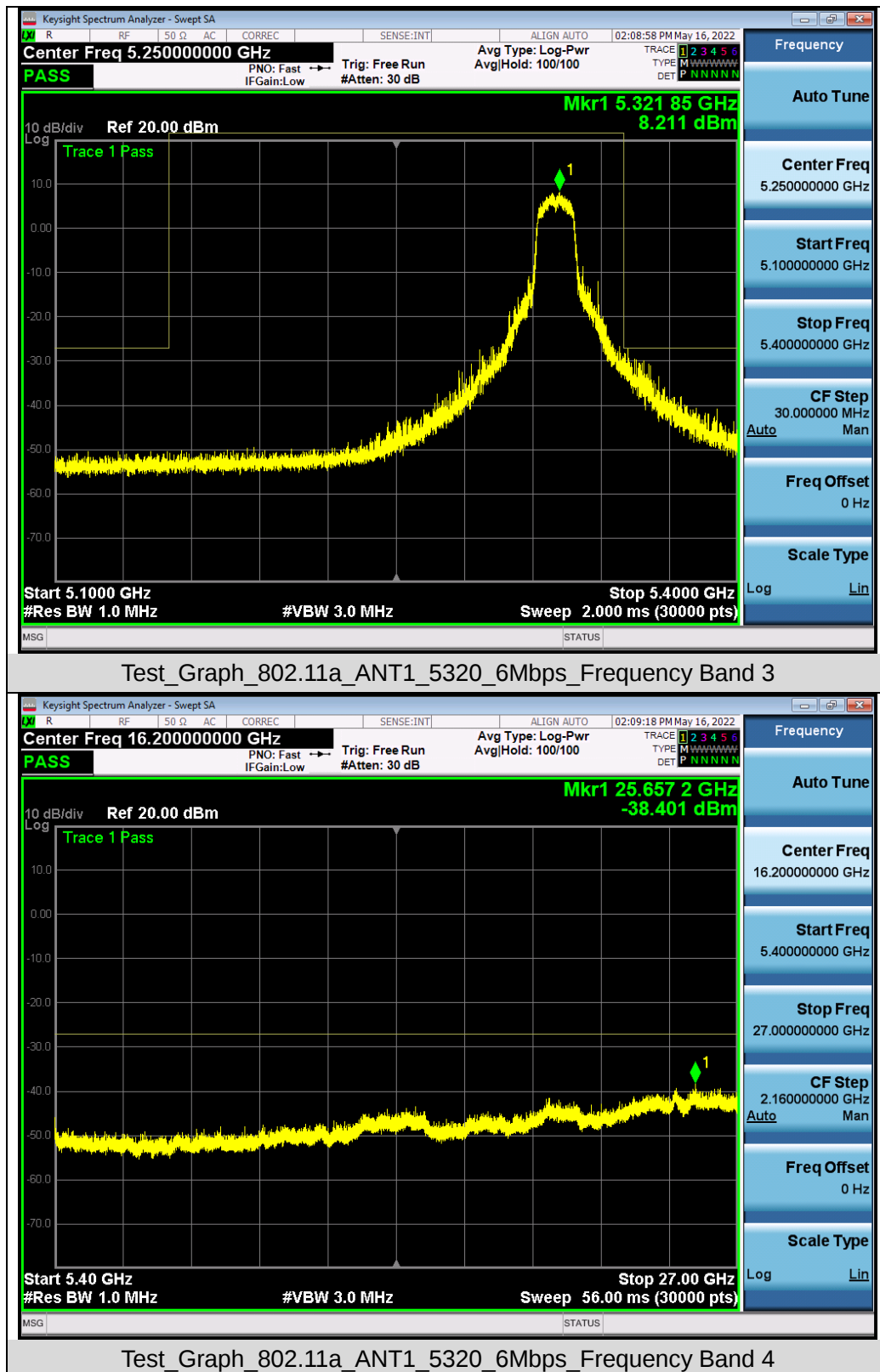
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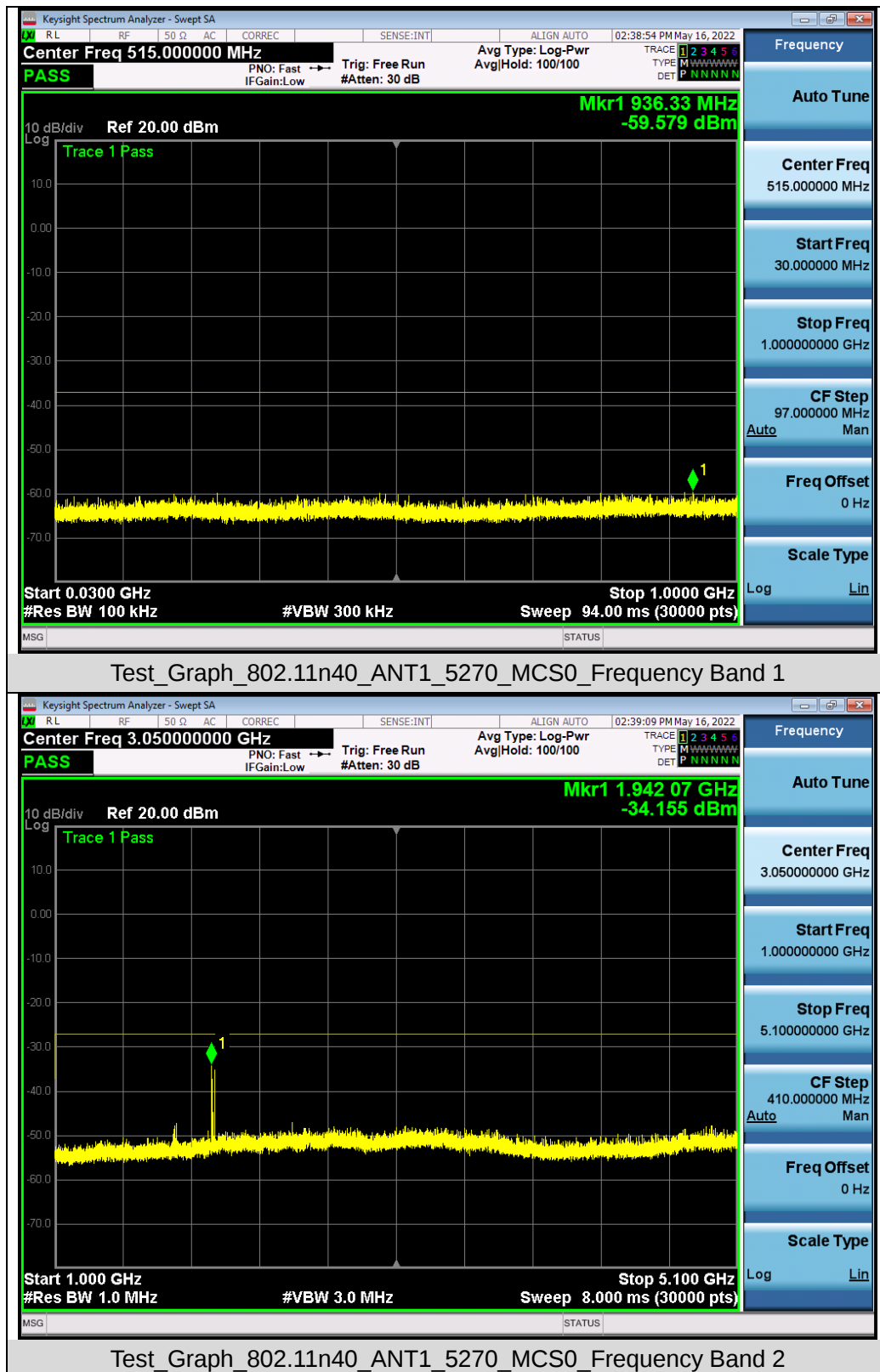
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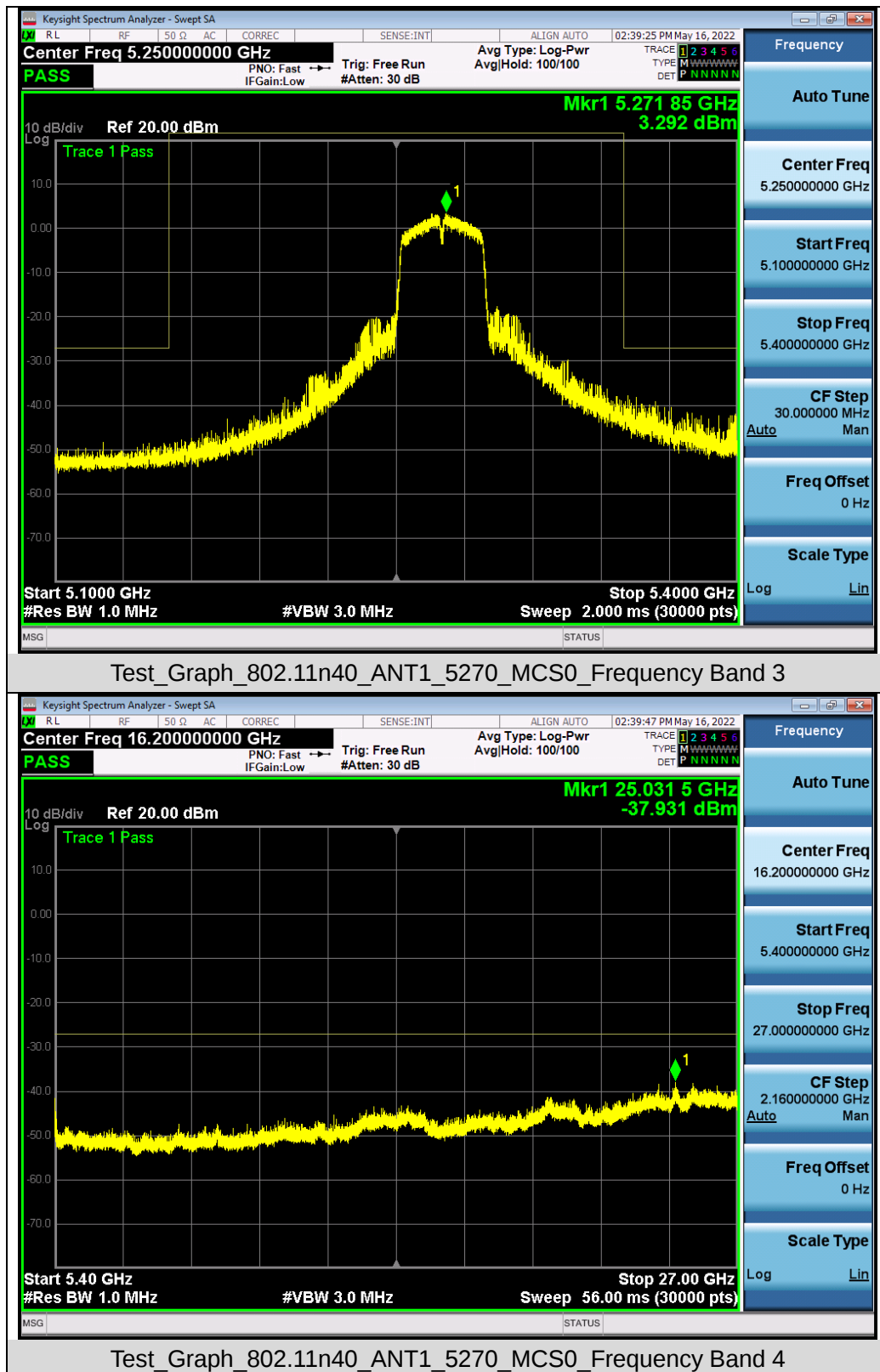
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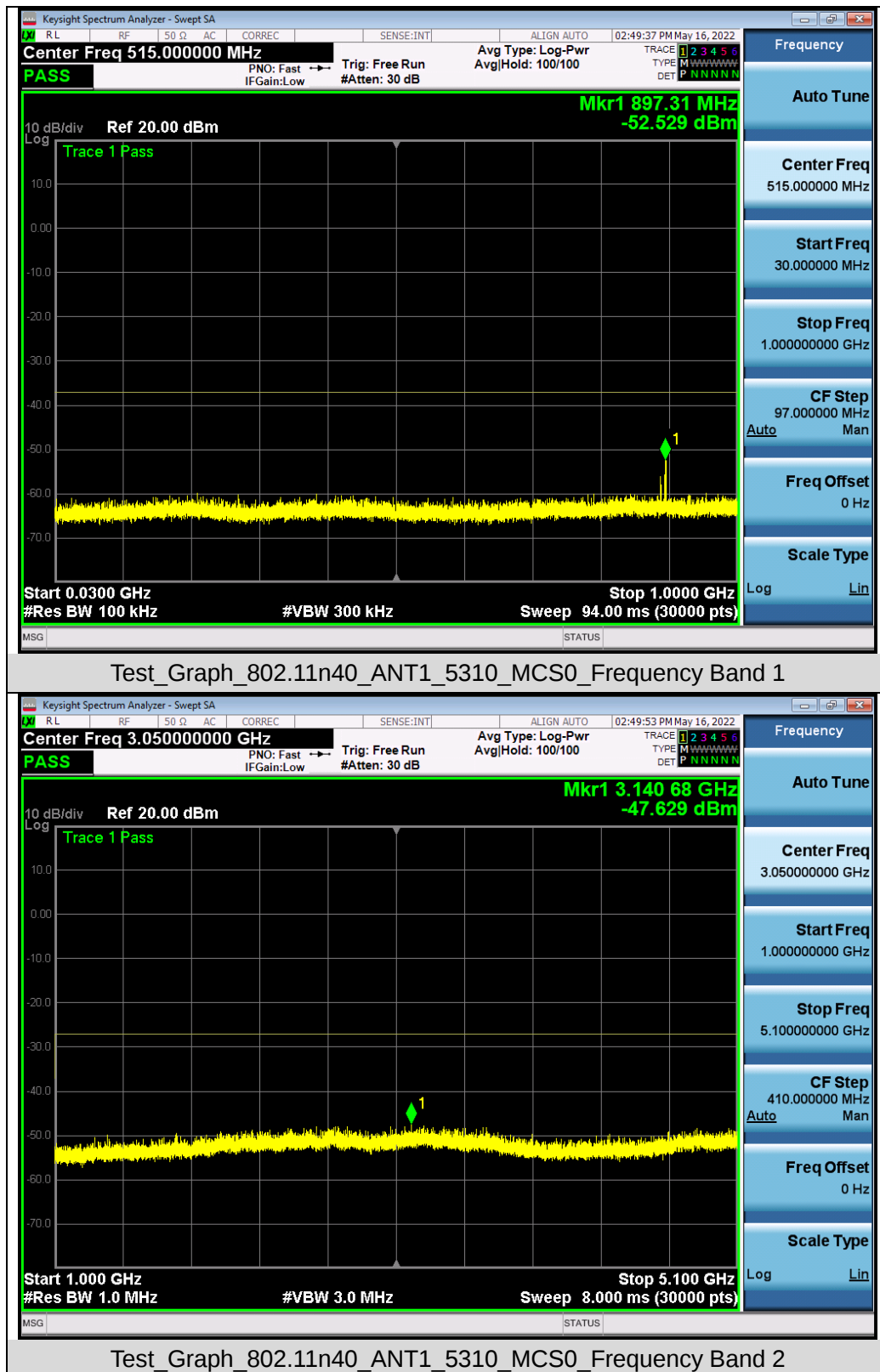
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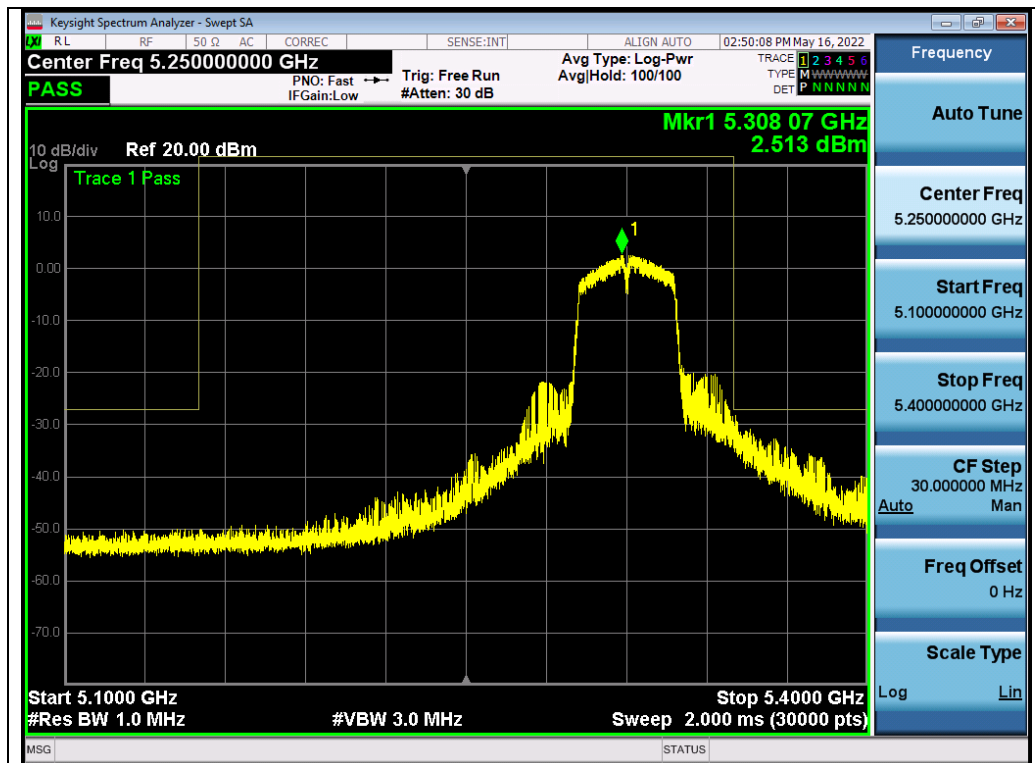
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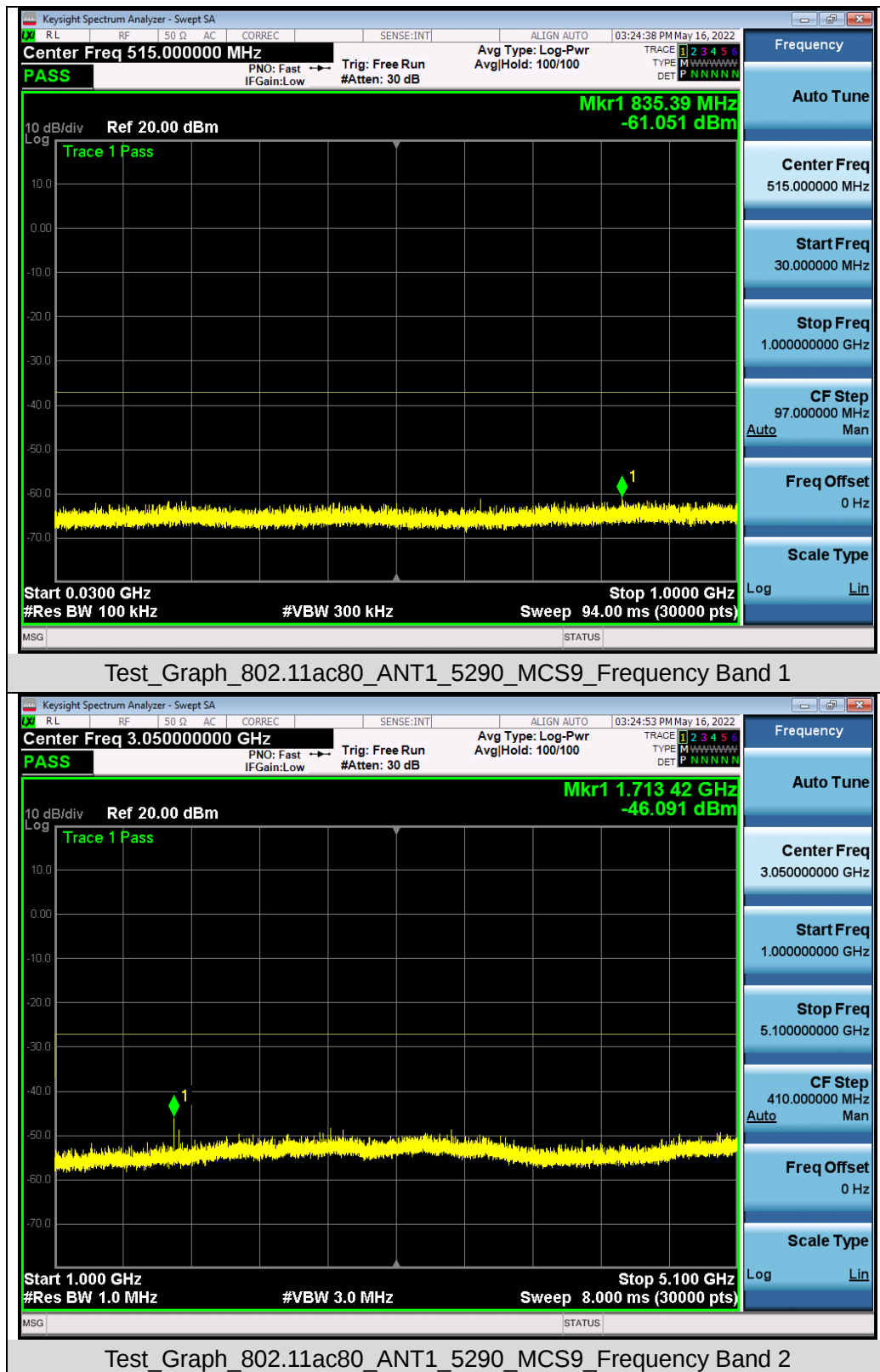


Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 3



Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 4

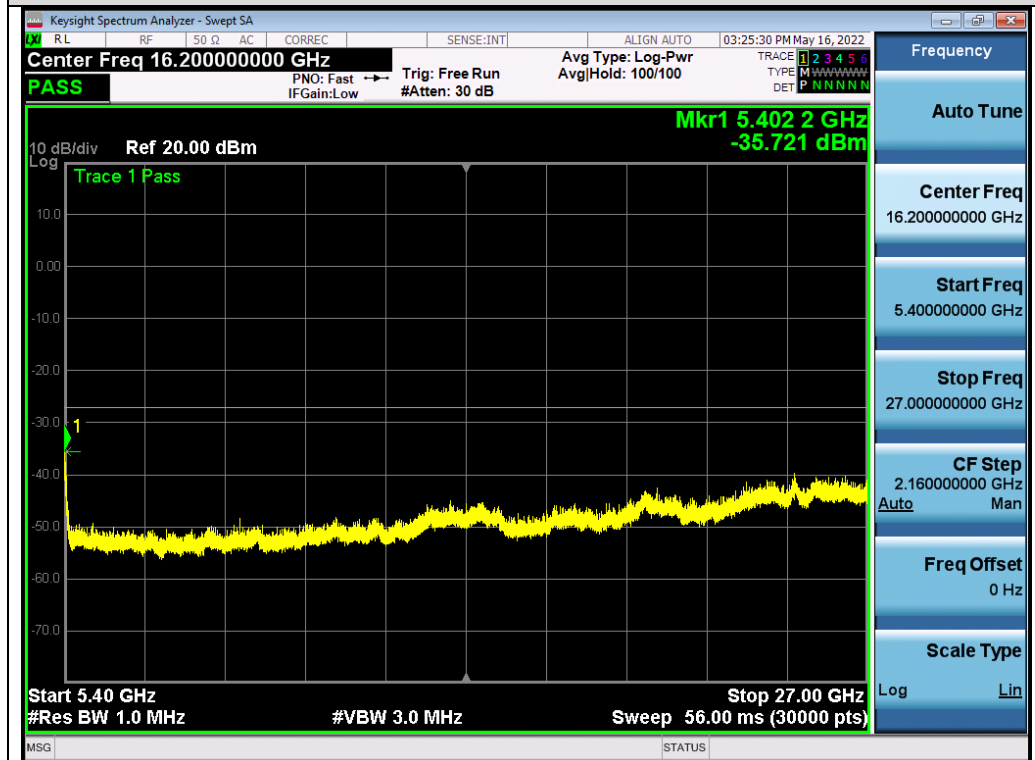
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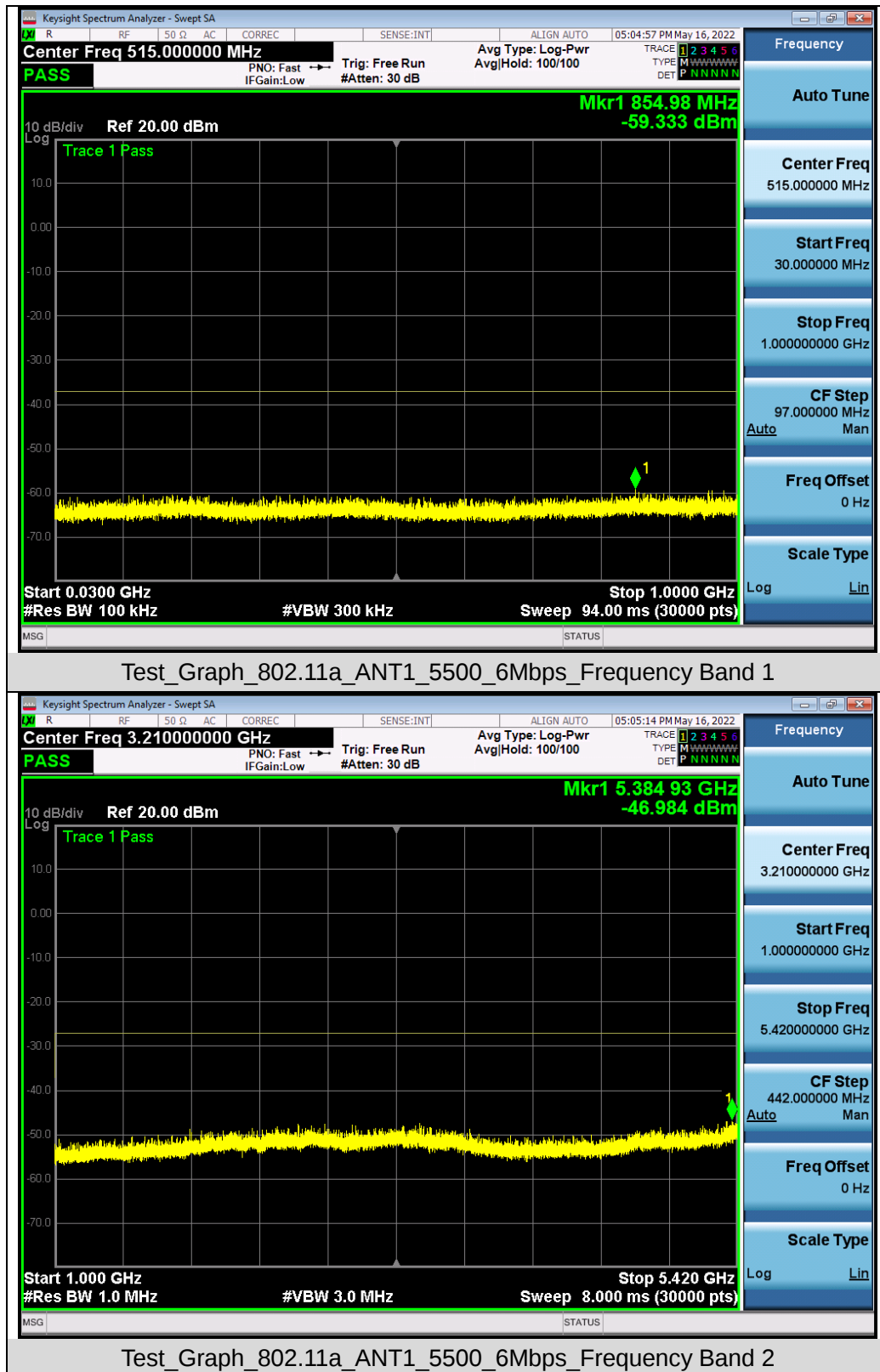
Test_Graph_802.11ac80_ANT1_5290_MCS9_Frequency Band 3



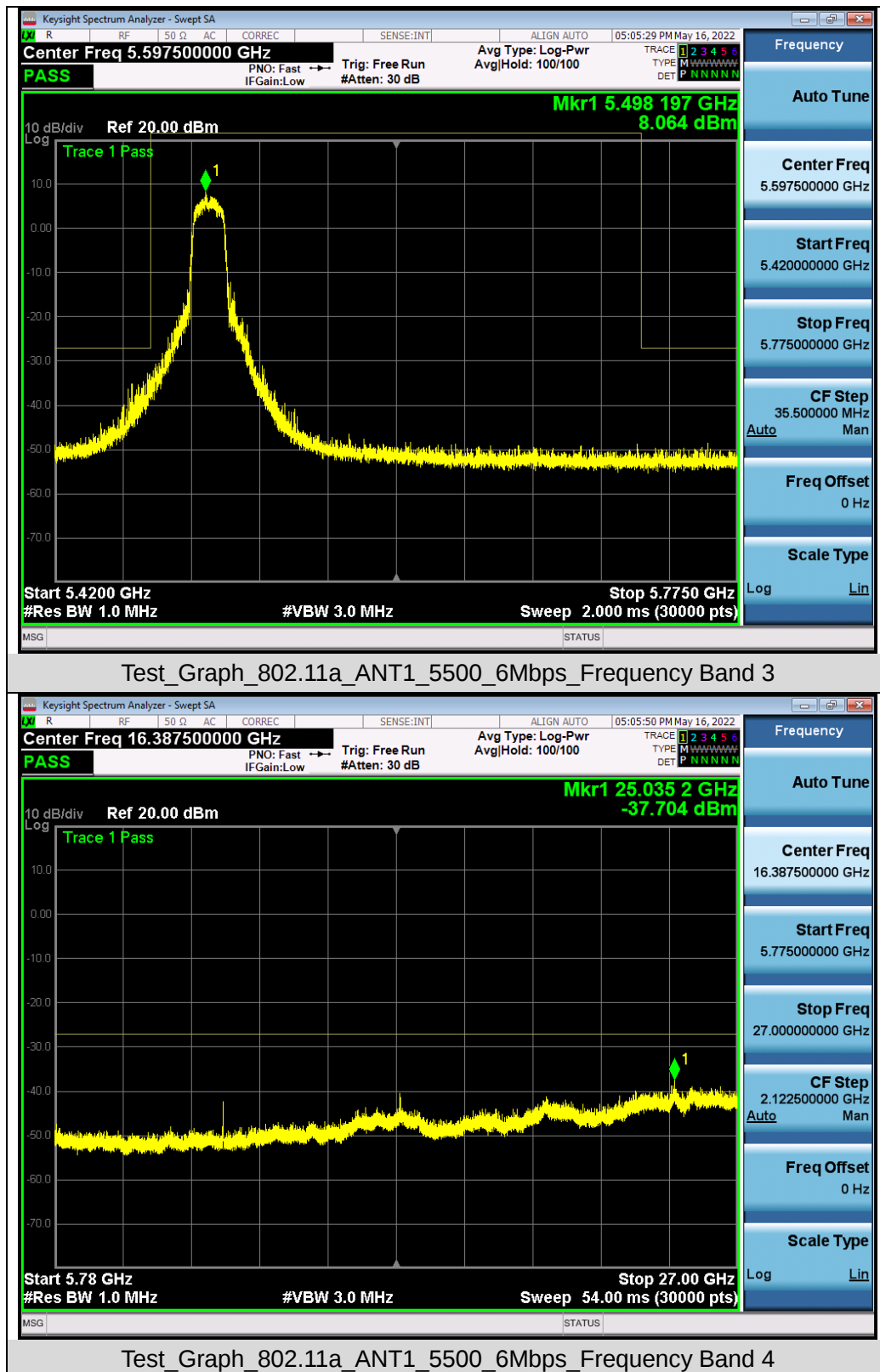
Test_Graph_802.11ac80_ANT1_5290_MCS9_Frequency Band 4

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Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.47-5.725 GHz band



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