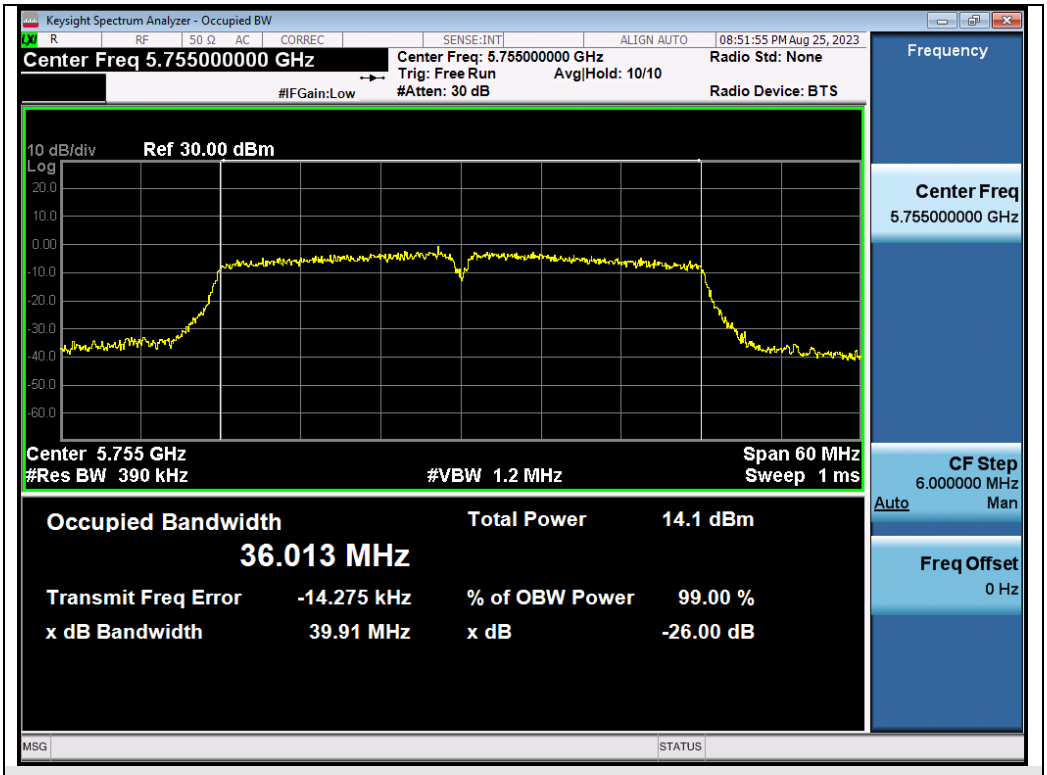

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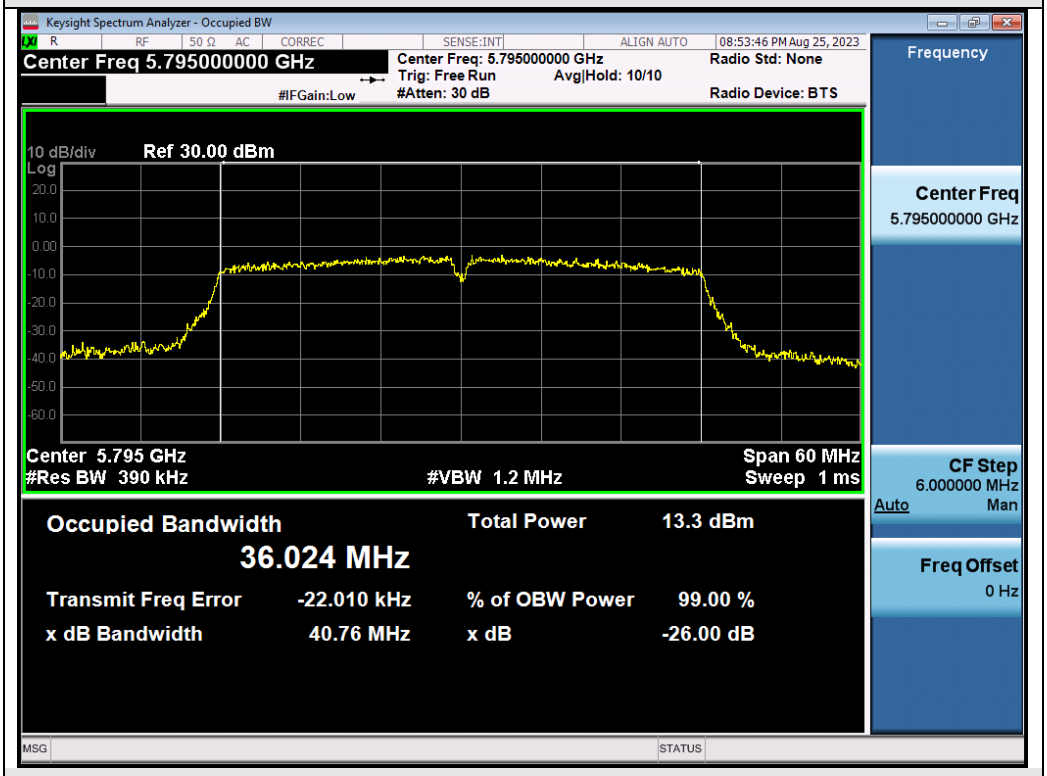

Test_Graph_802.11n40_ANT1_5795_MCS0_OBW

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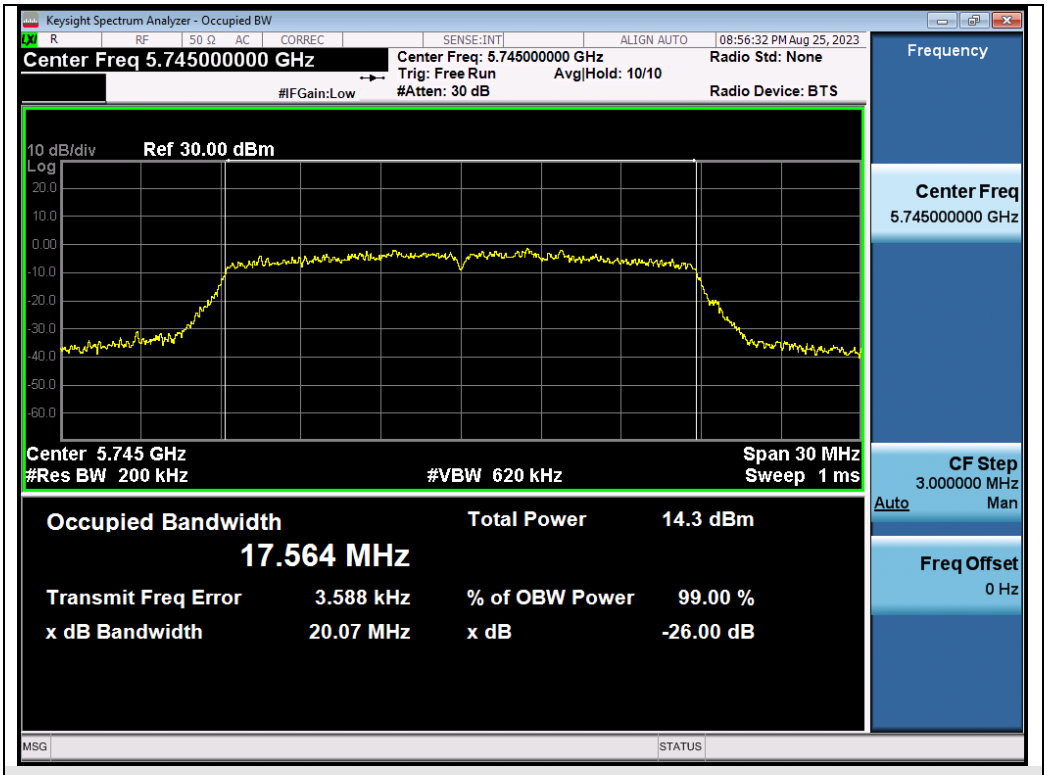

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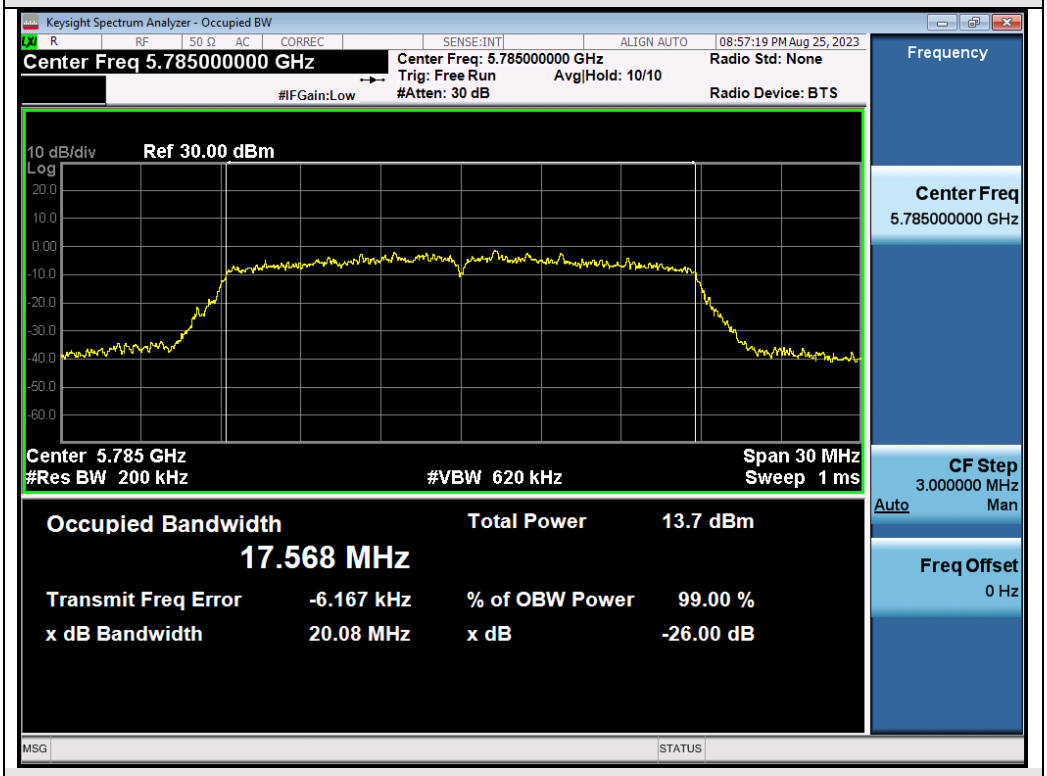

Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW

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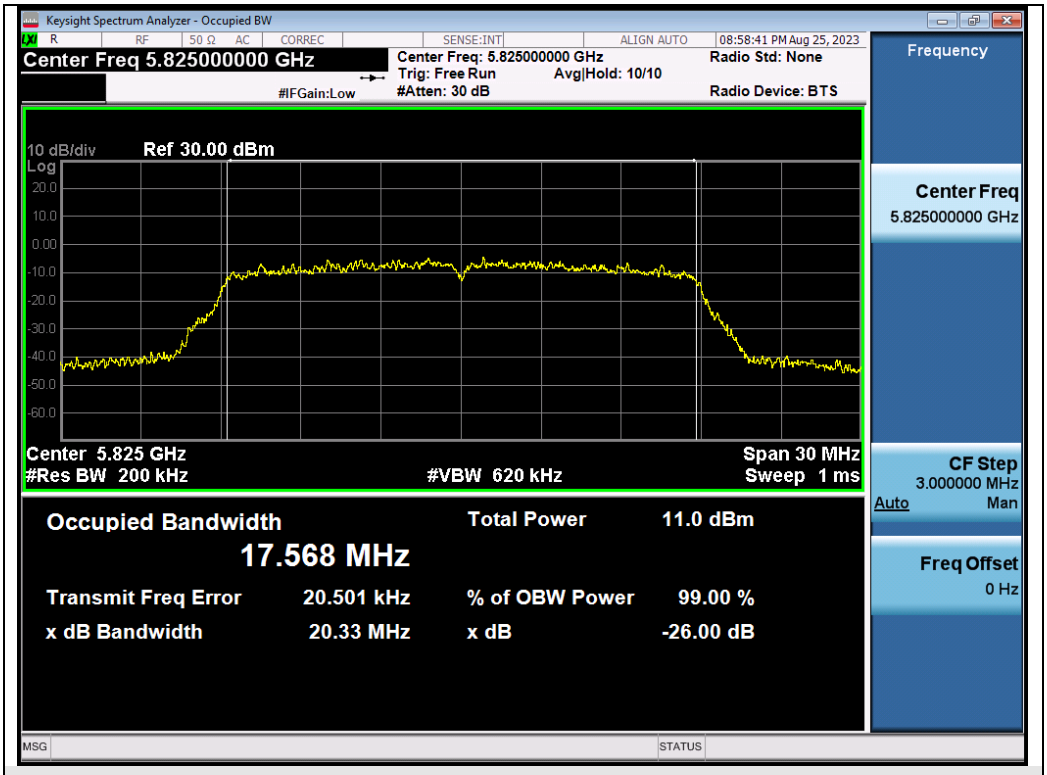

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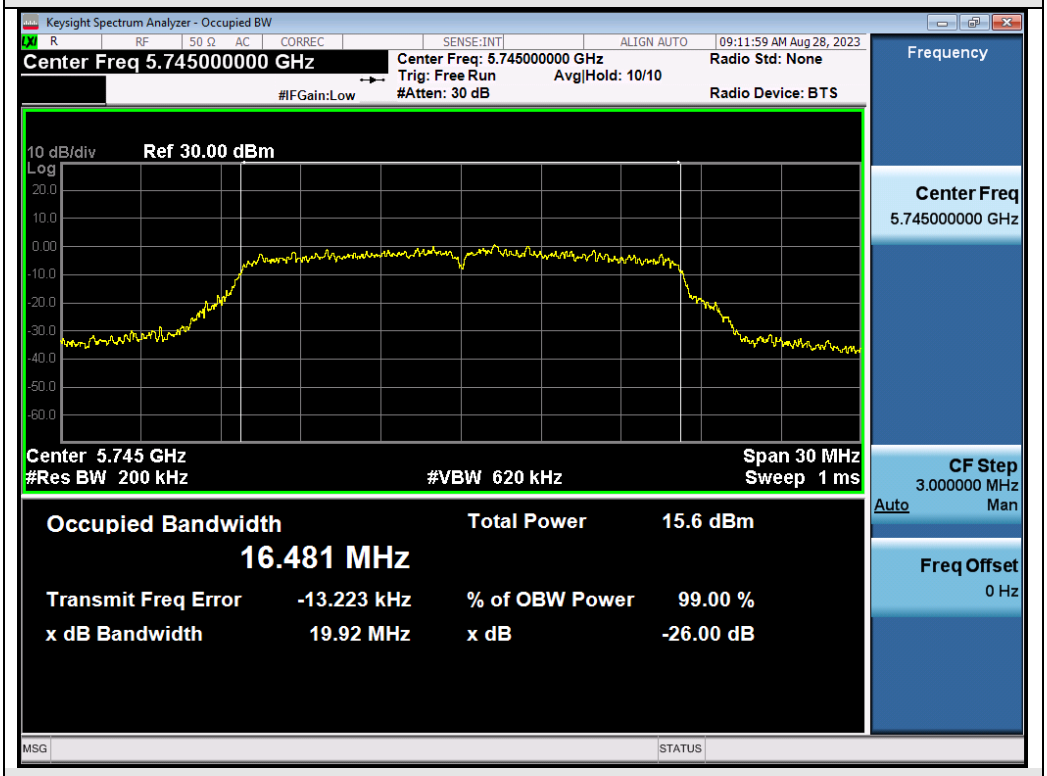

Test_Graph_802.11a_ANT2_5745_6Mbps_OBW

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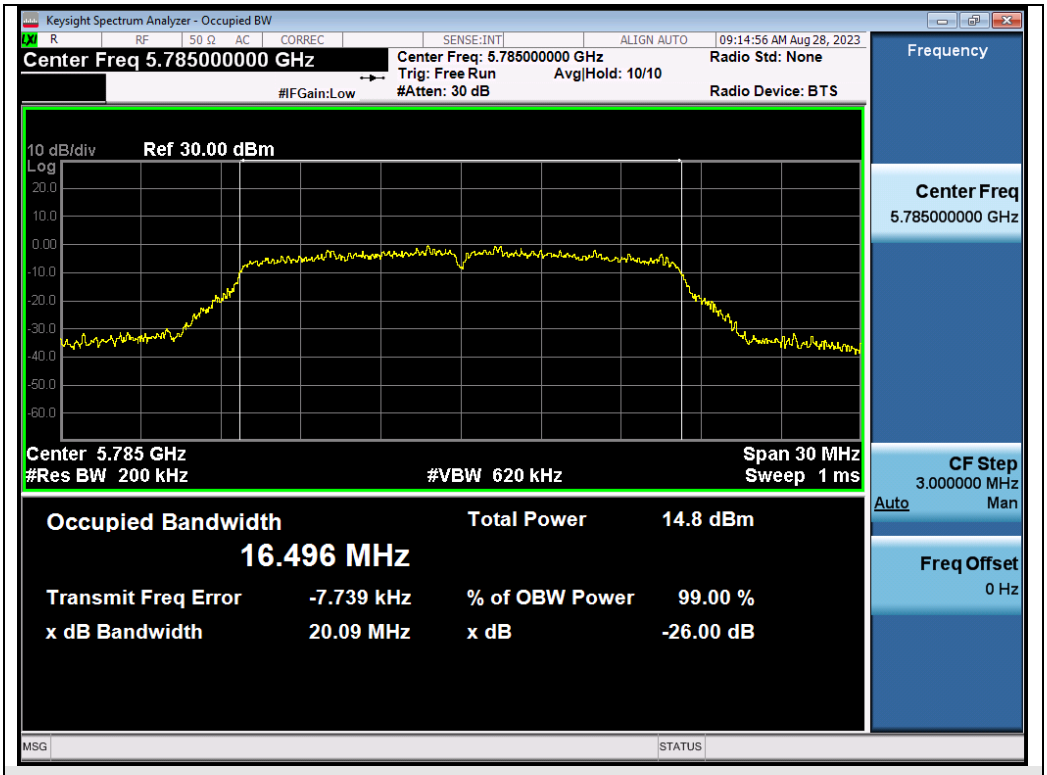

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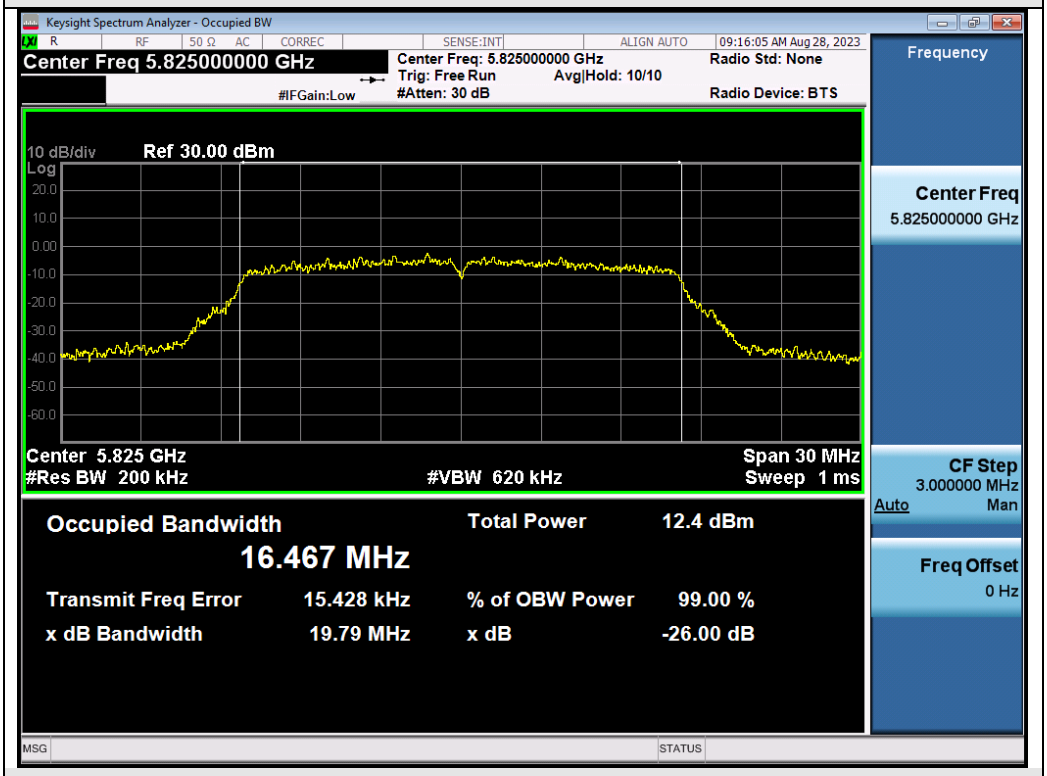

Test_Graph_802.11a_ANT2_5825_6Mbps_OBW

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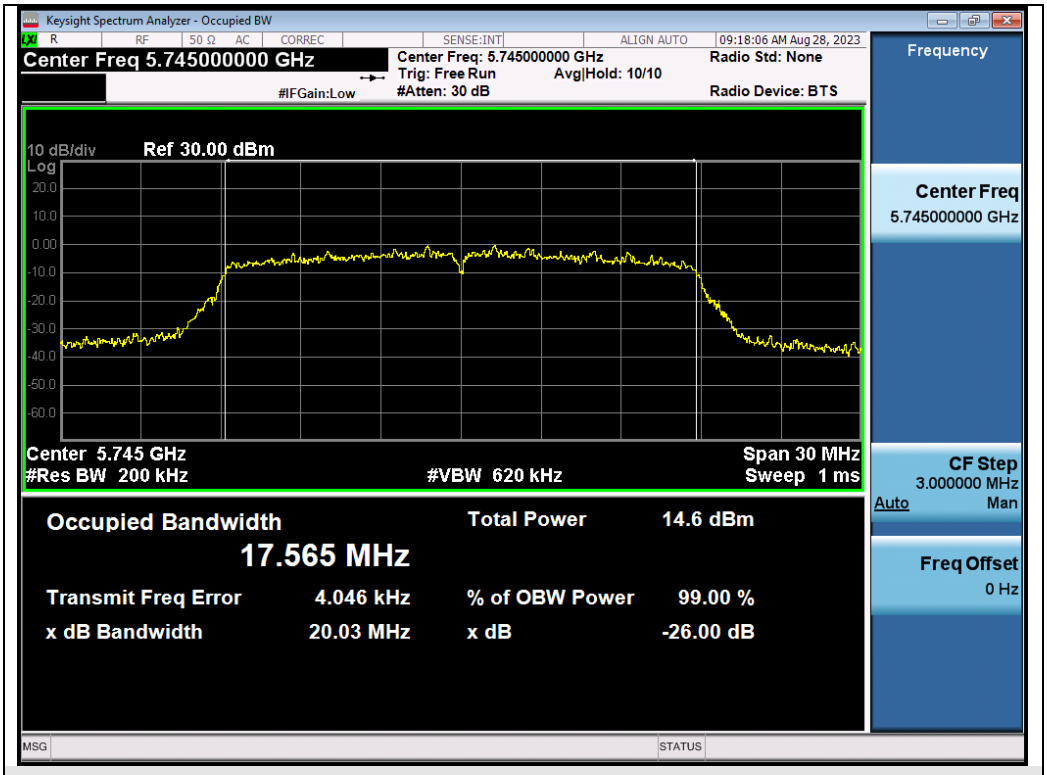

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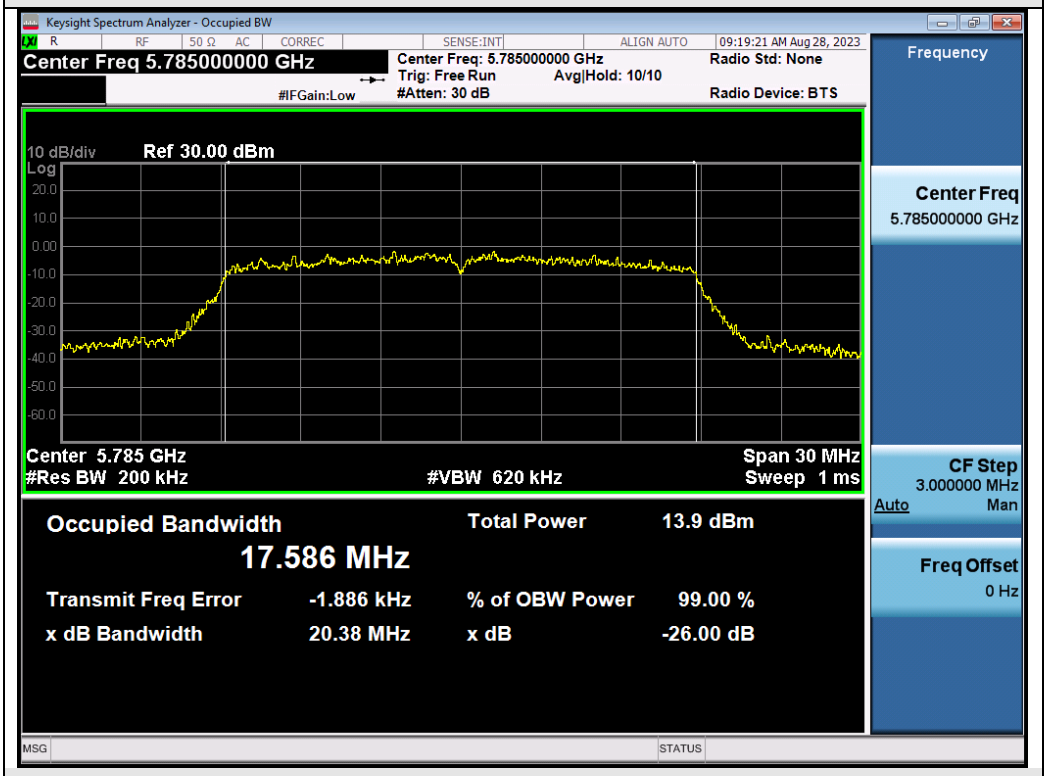

Test_Graph_802.11n20_ANT2_5785_MCS0_OBW

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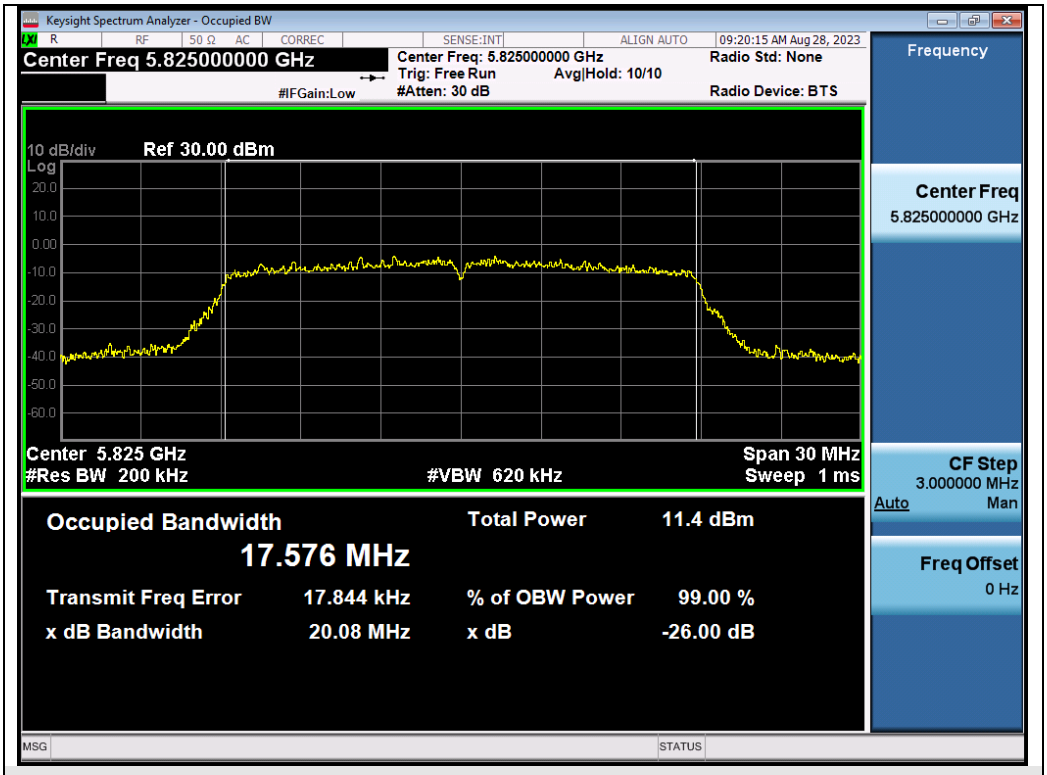

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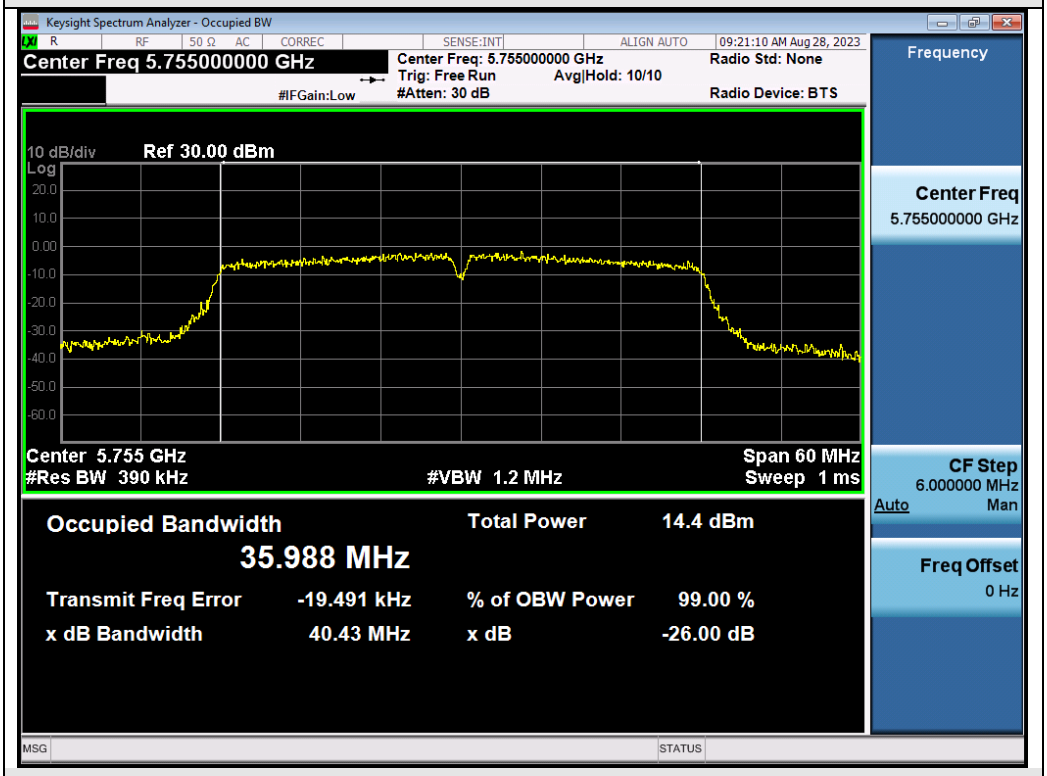

Test_Graph_802.11n40_ANT2_5755_MCS0_OBW

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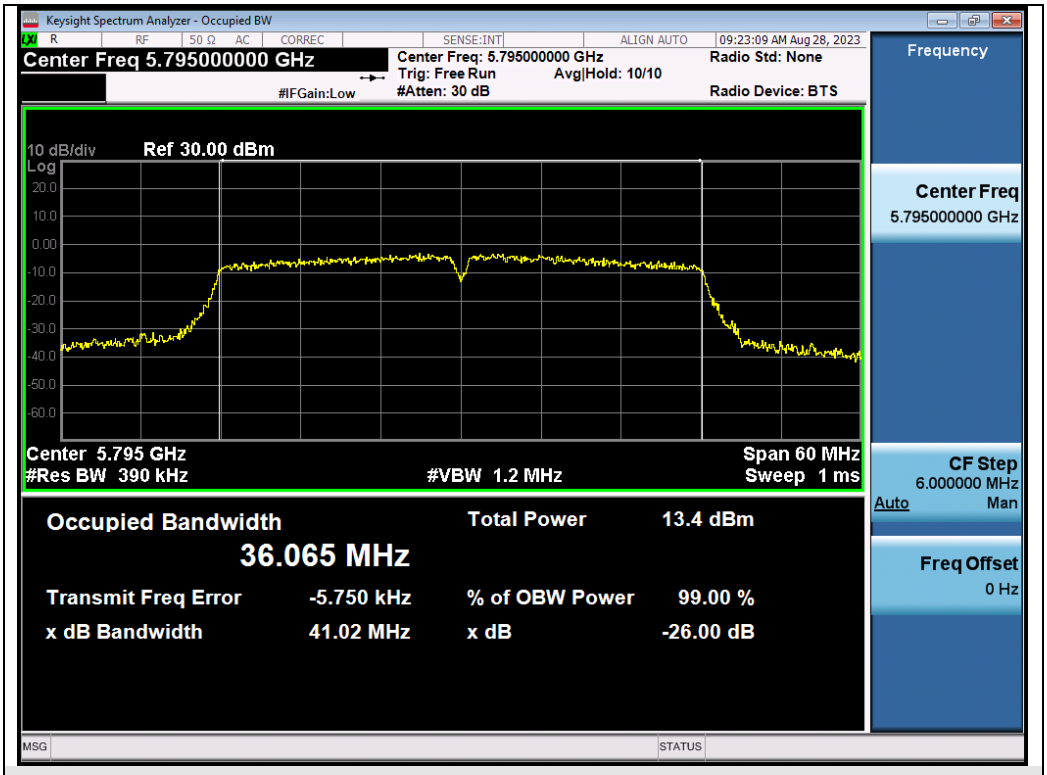

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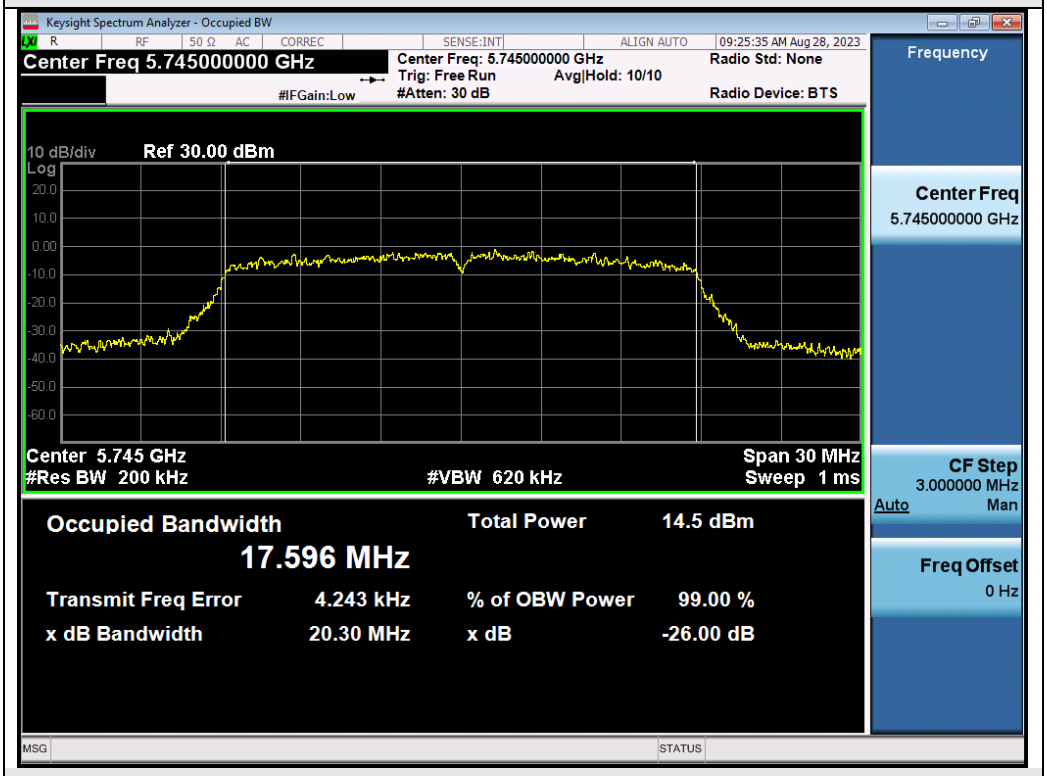

Test_Graph_802.11ac20_ANT2_5745_MCS0_OBW

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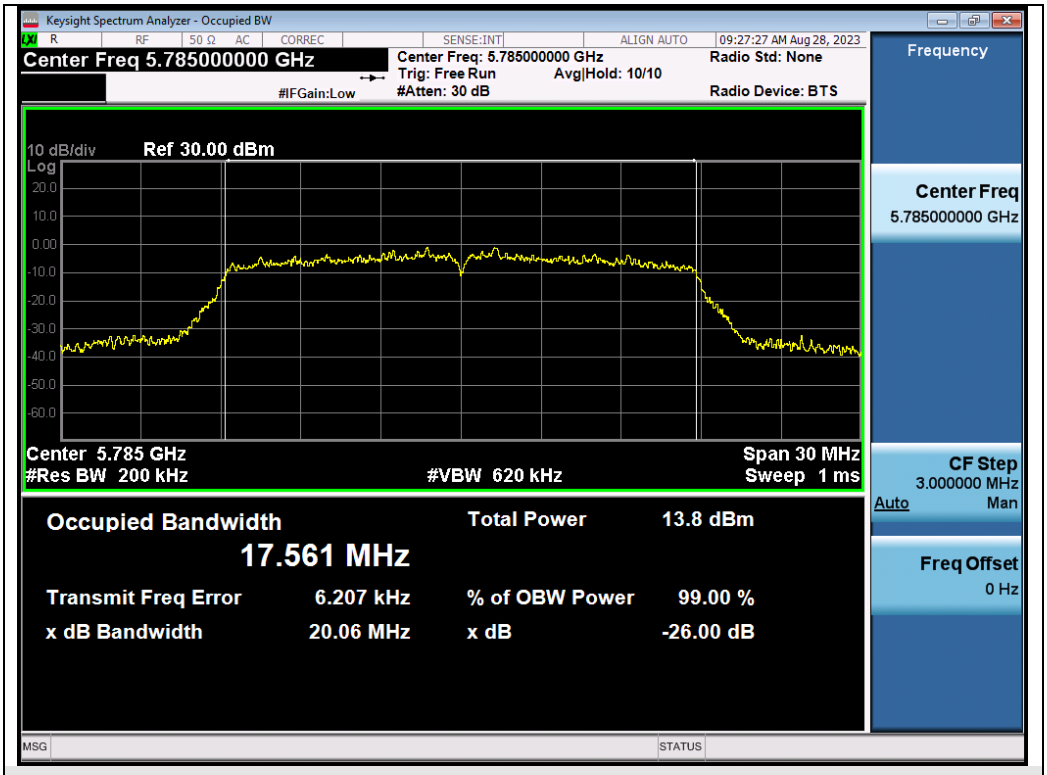

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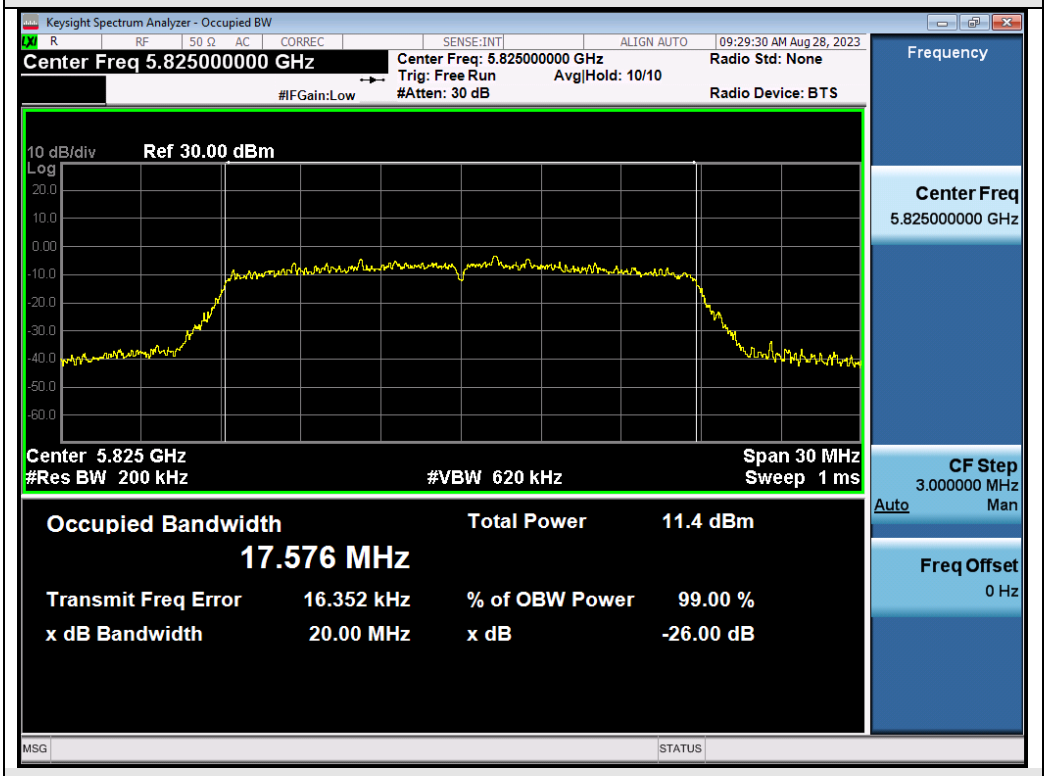

Test_Graph_802.11ac20_ANT2_5825_MCS9_OBW

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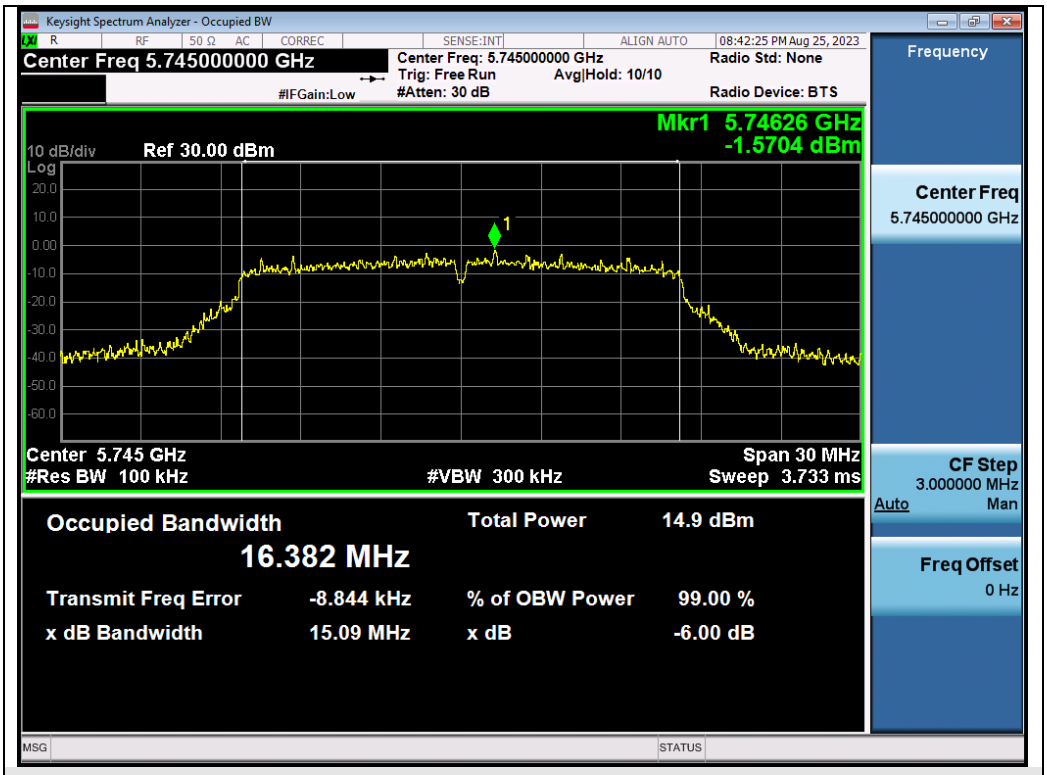
Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW

Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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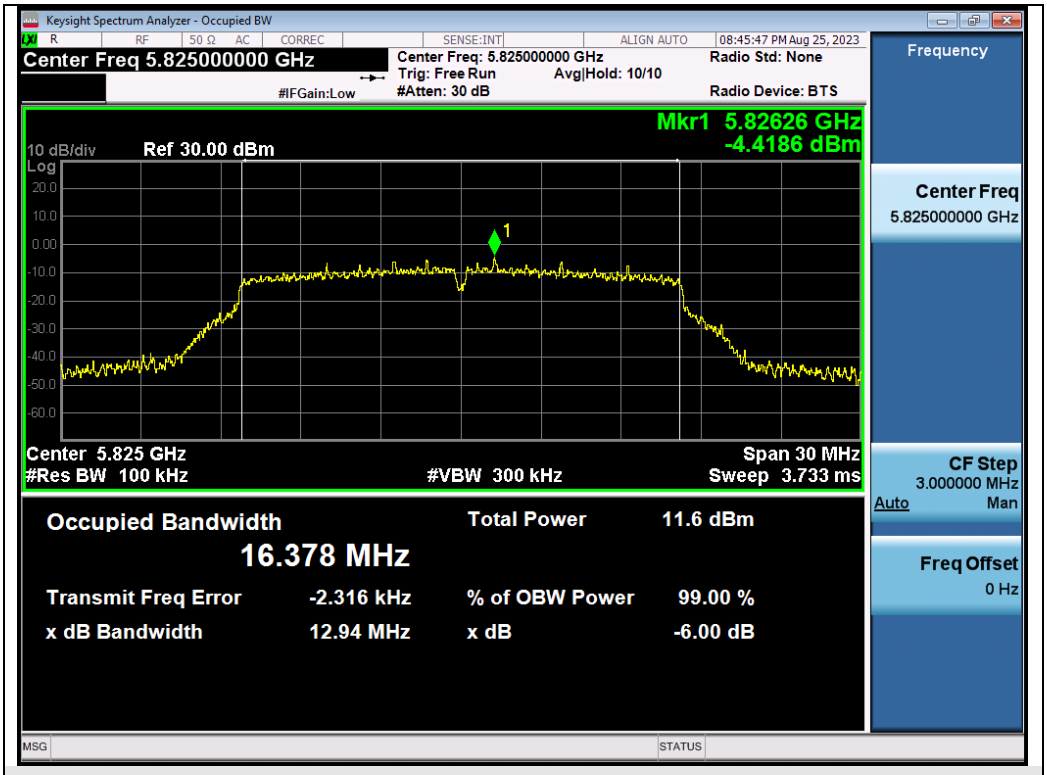

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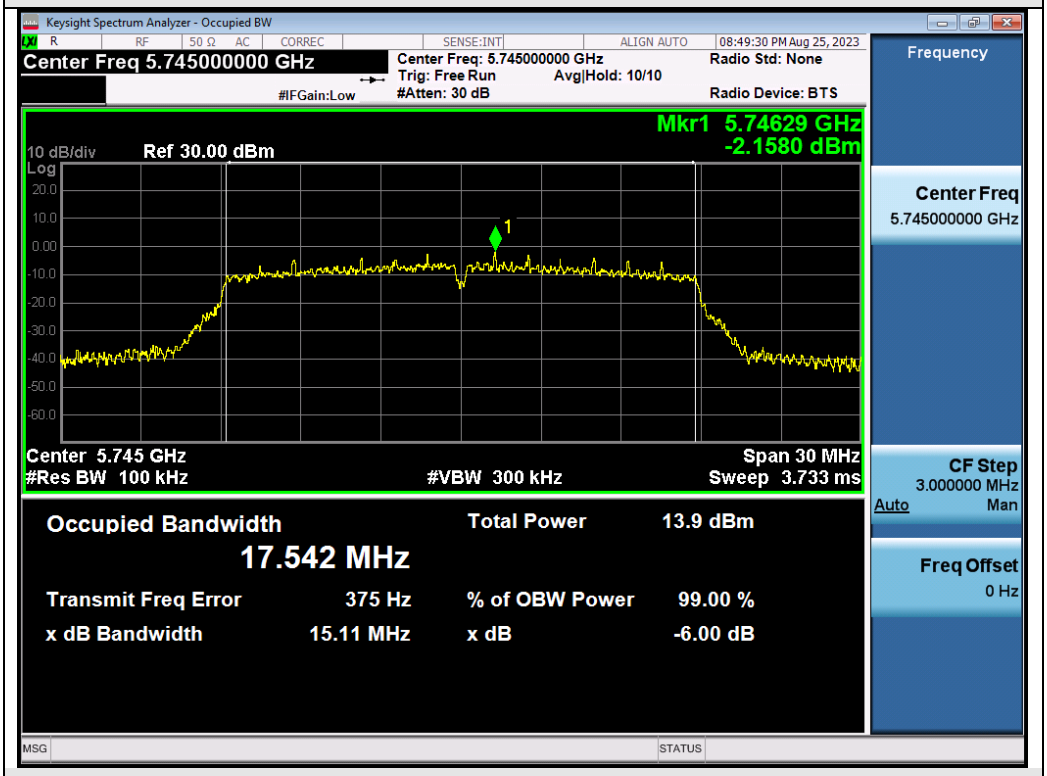

Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW

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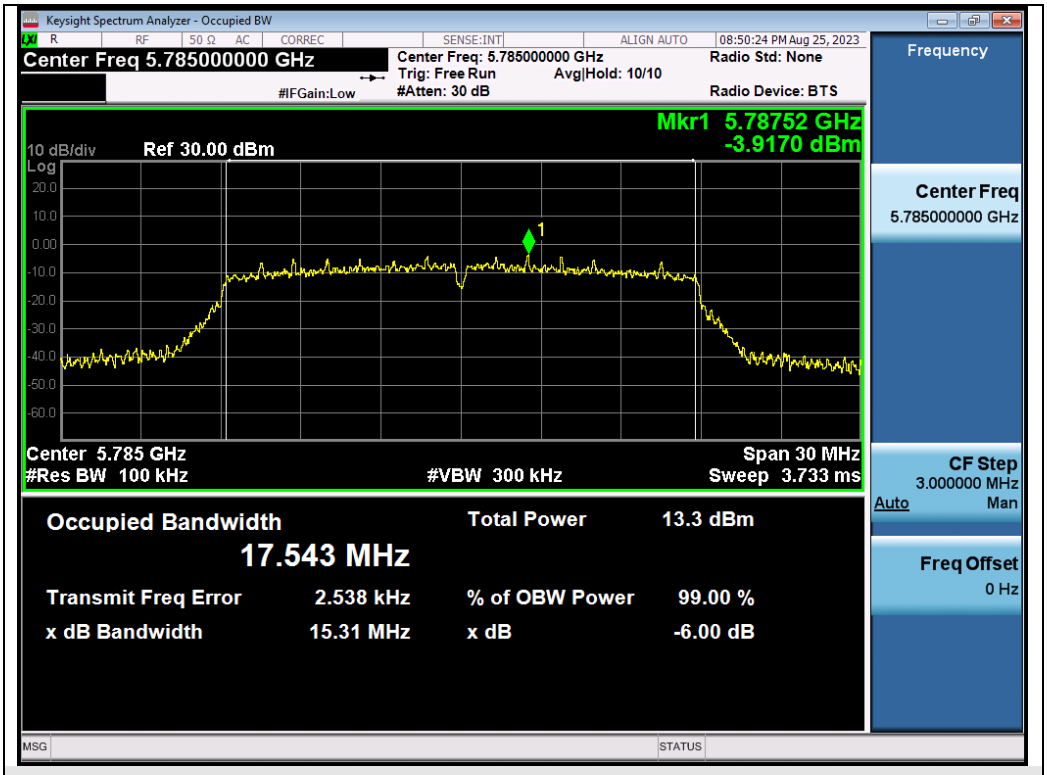

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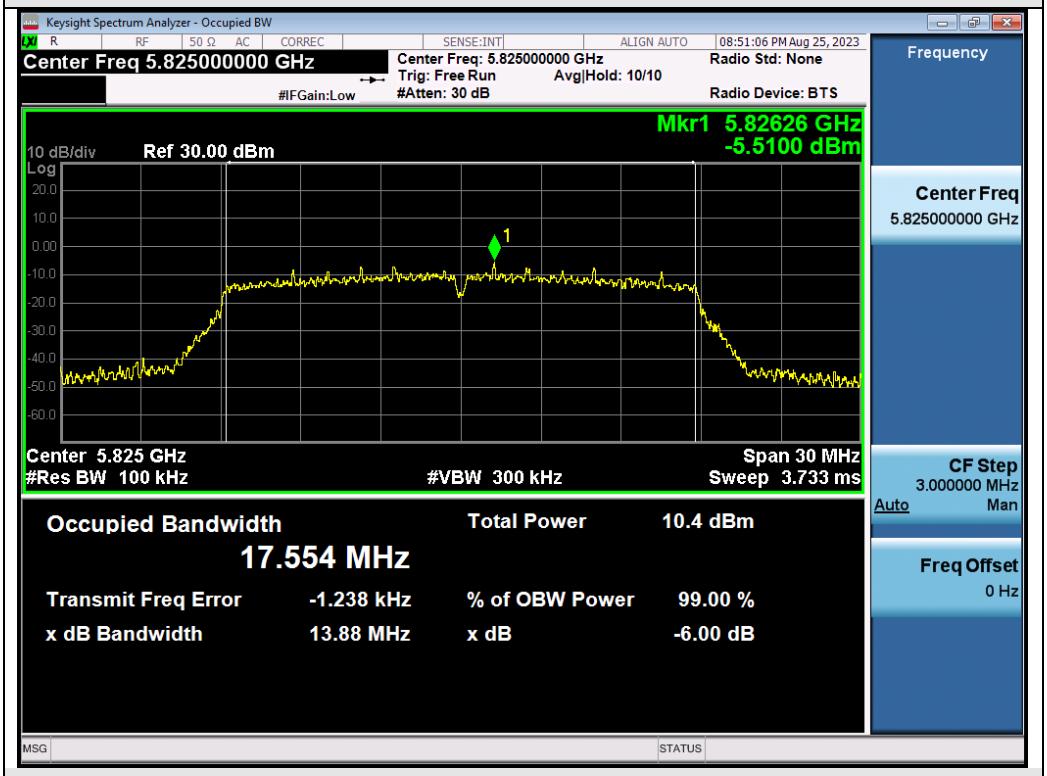

Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW

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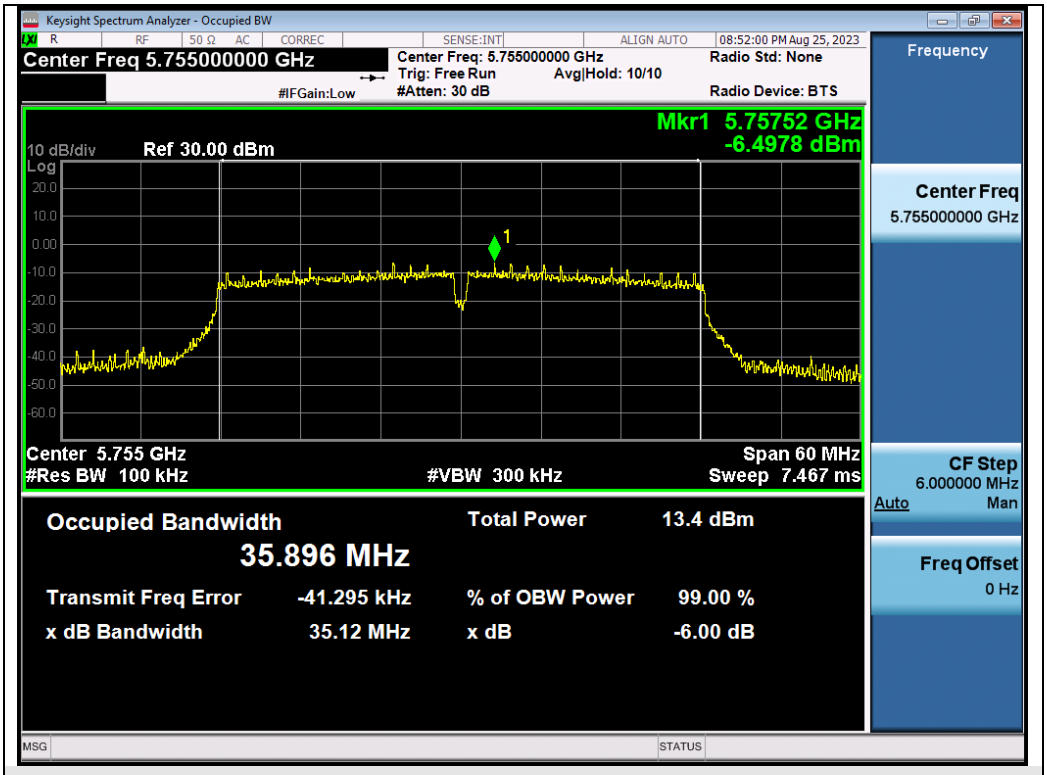

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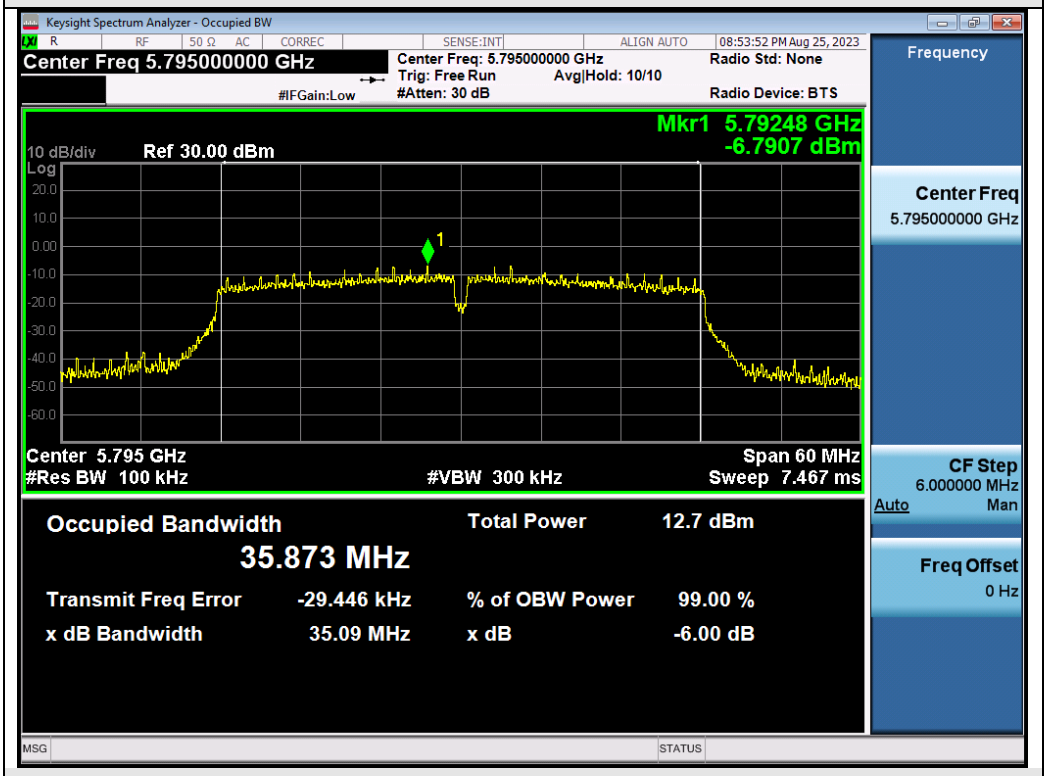

Test_Graph_802.11n40_ANT1_5795_MCS0_DTSBW

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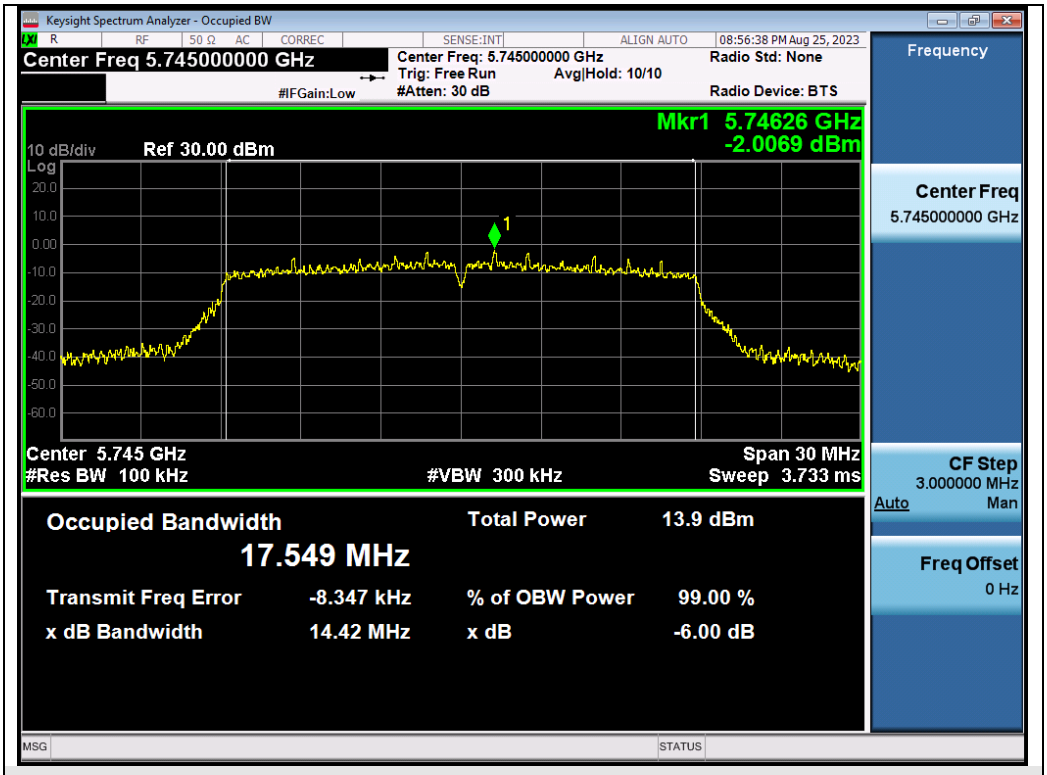

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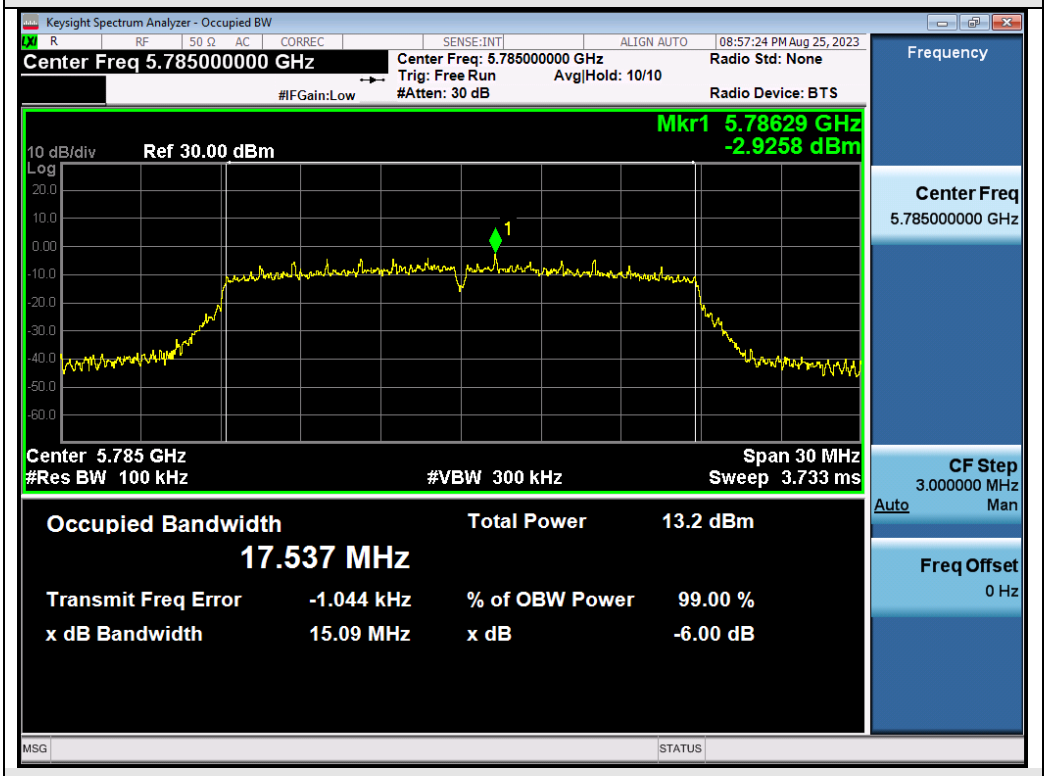

Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW

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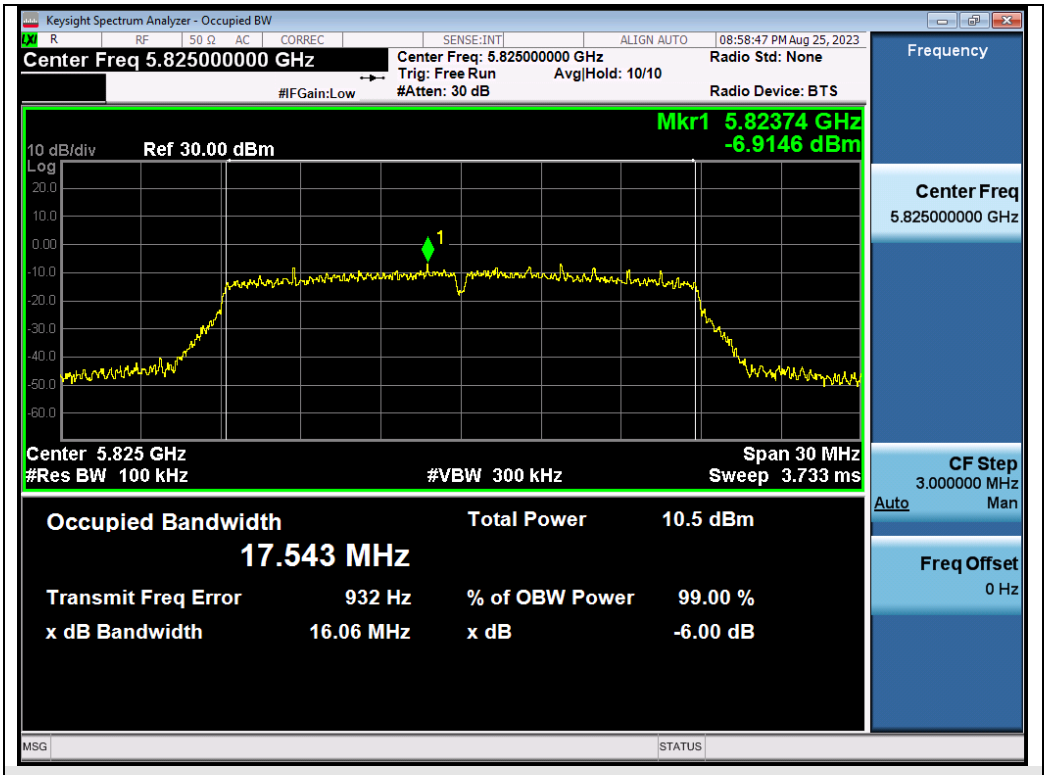

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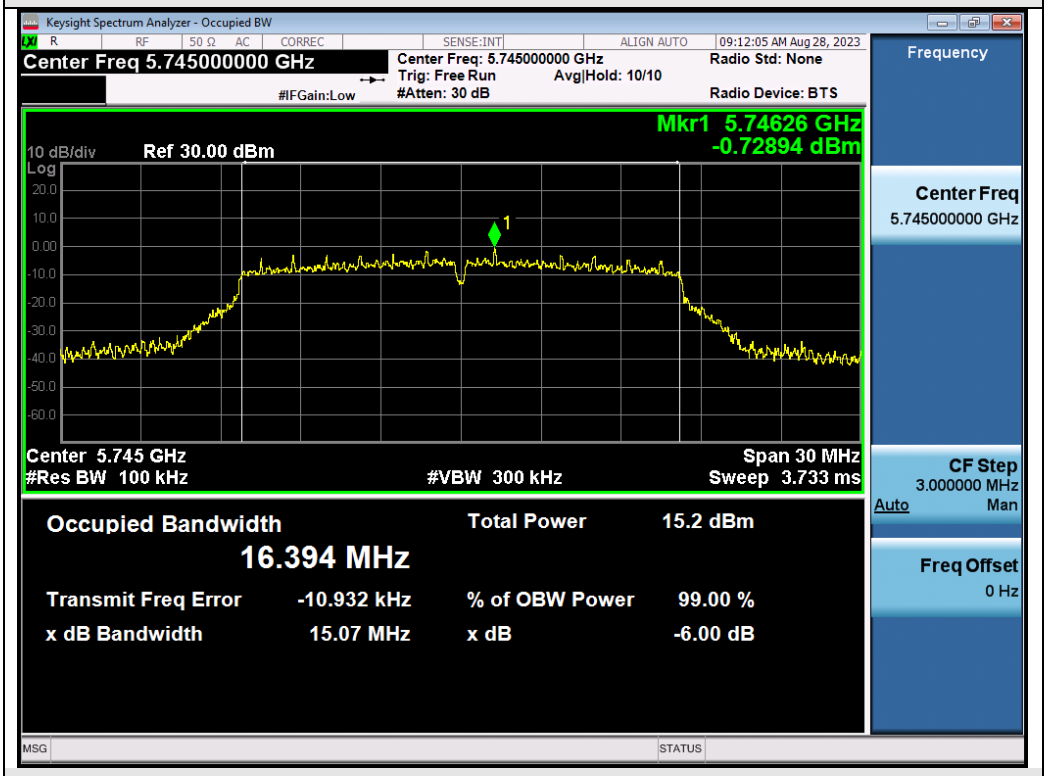

Test_Graph_802.11a_ANT2_5745_6Mbps_DTSBW

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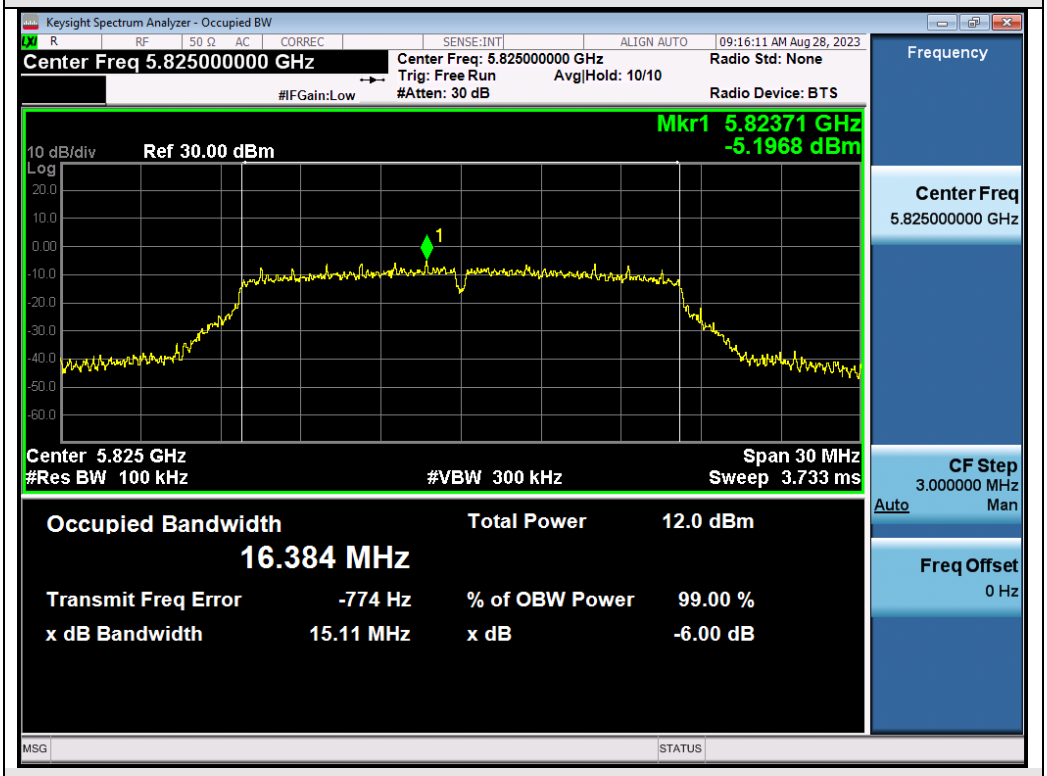
Test_Graph_802.11a_ANT2_5785_6Mbps_DTSBW



Test_Graph_802.11a_ANT2_5825_6Mbps_DTSBW

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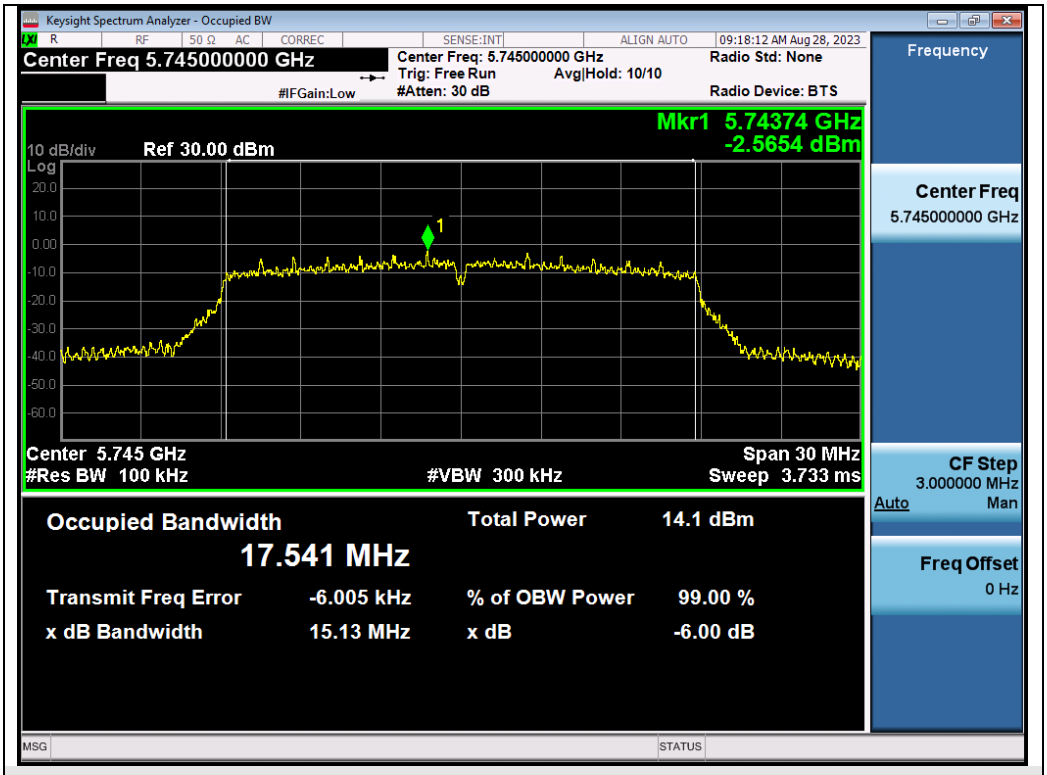

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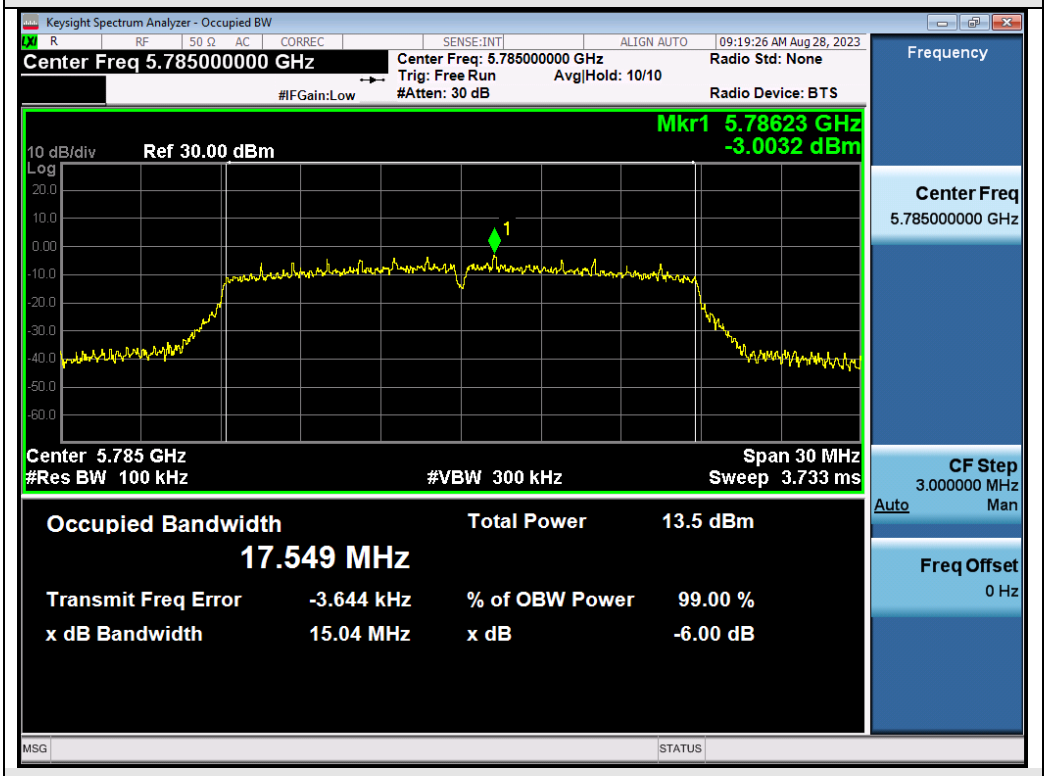

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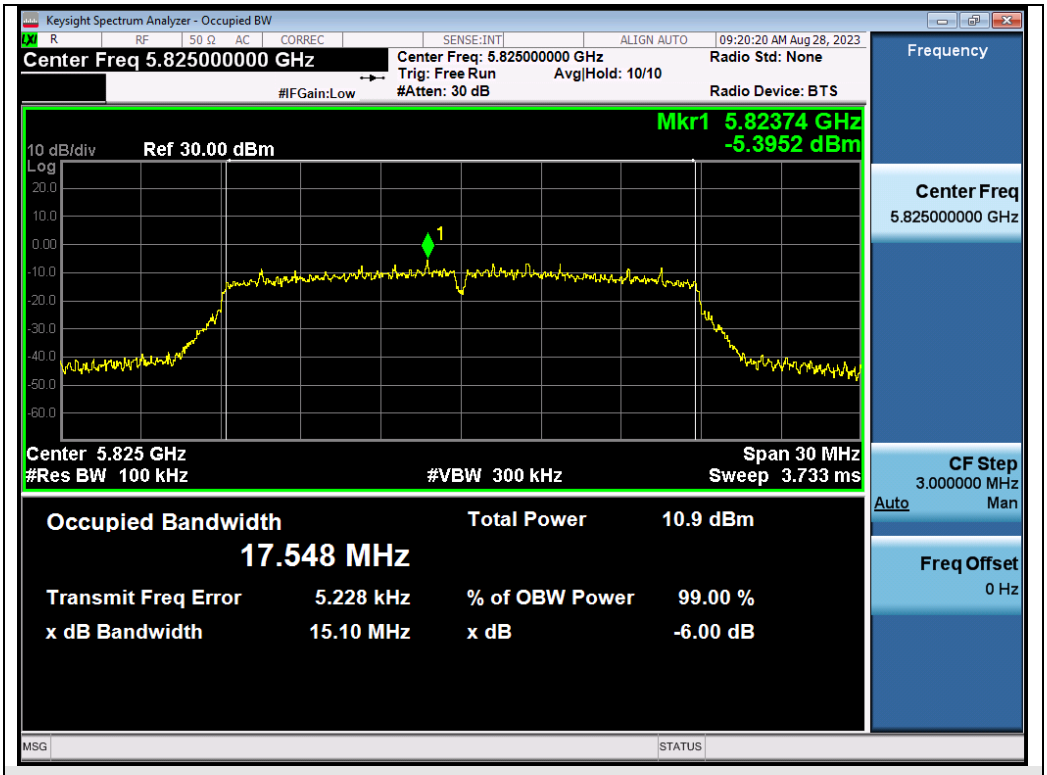

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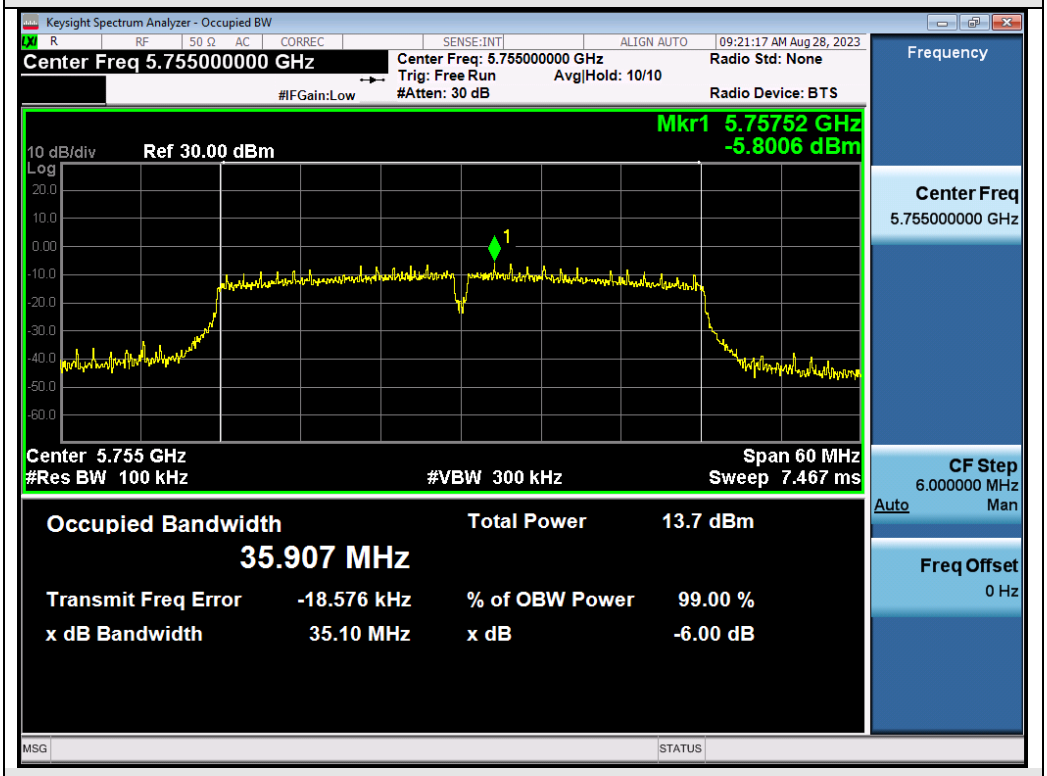

Test_Graph_802.11n40_ANT2_5755_MCS0_DTSBW

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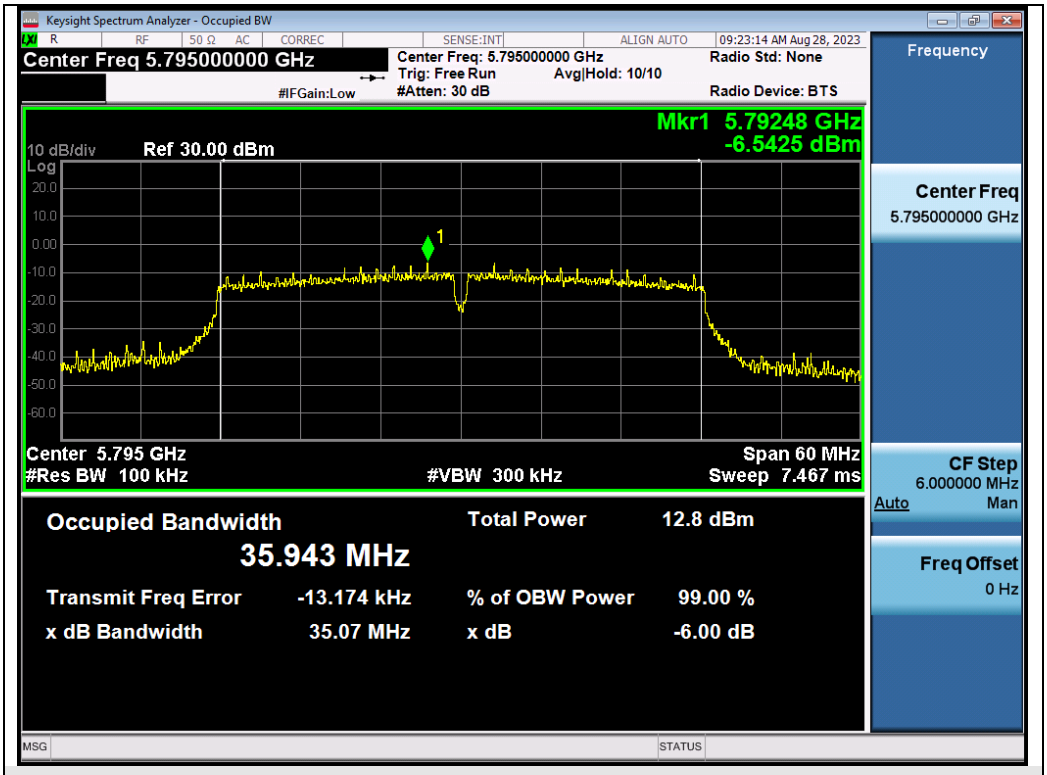

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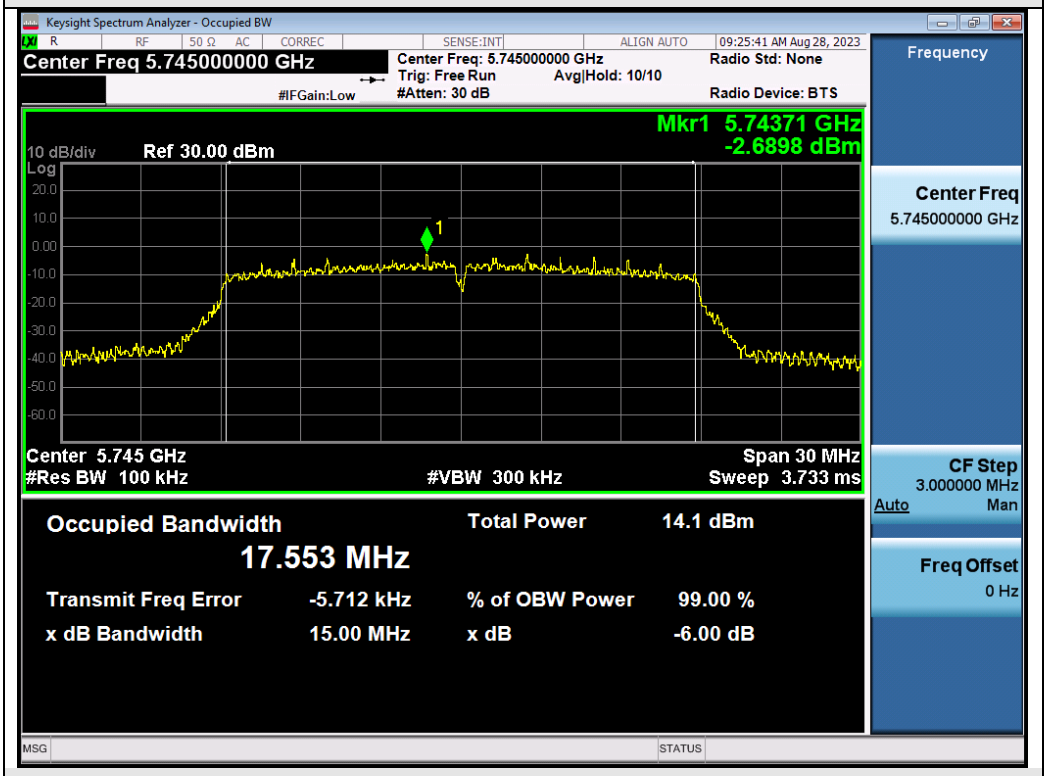

Test_Graph_802.11ac20_ANT2_5745_MCS0_DTSBW

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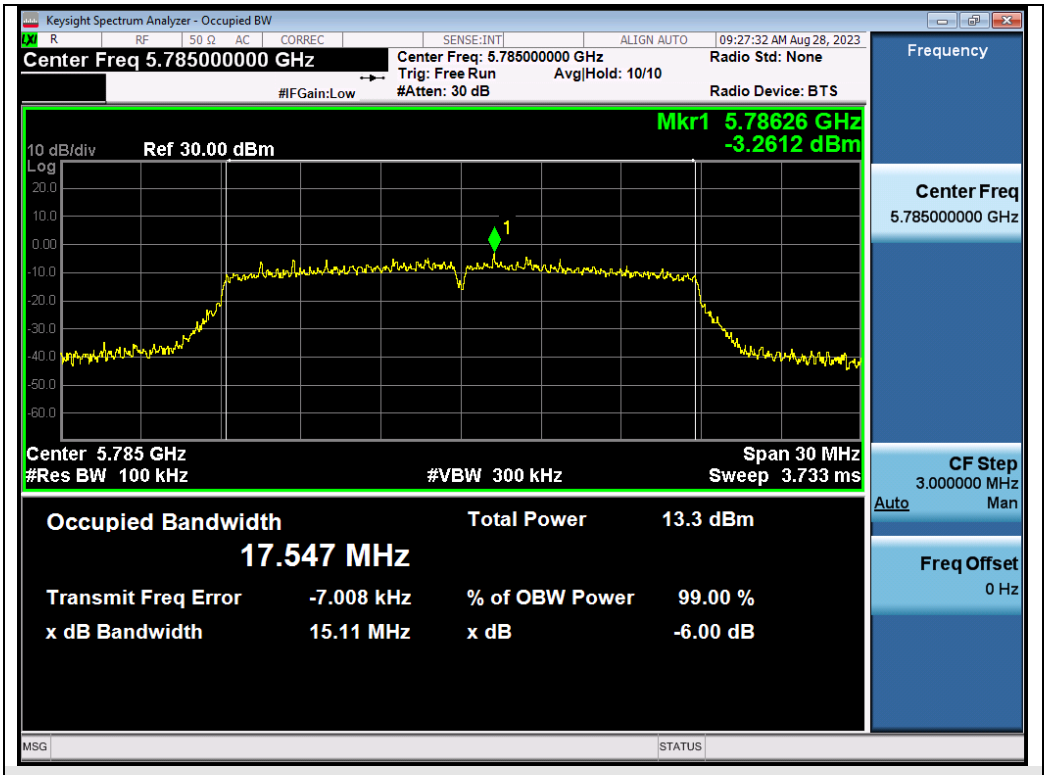

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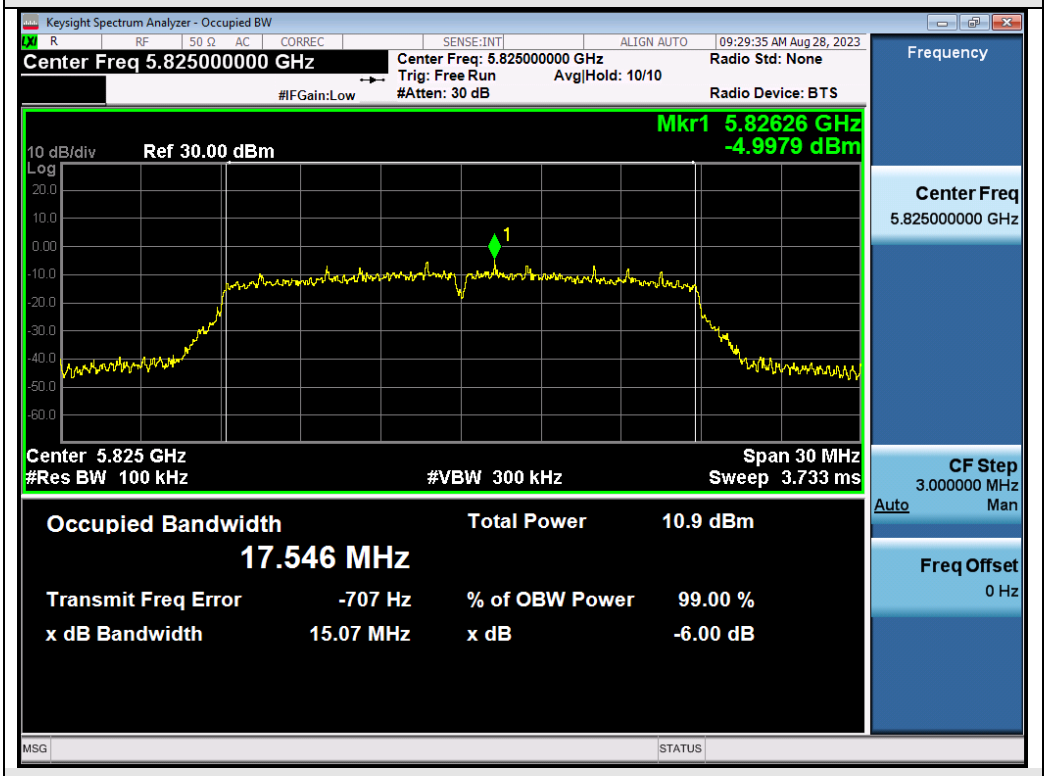

Test_Graph_802.11ac20_ANT2_5825_MCS9_DTSBW

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9. Power Spectral Density Measurement

9.1 Provisions Applicable

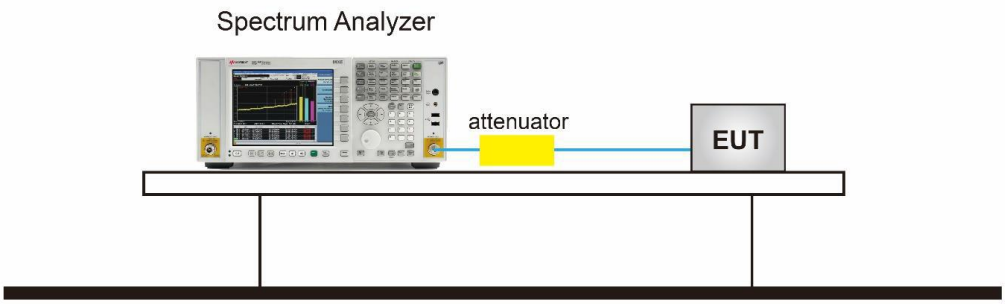
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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≥[3×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*log(500kHz/100kHz) = 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. Record the test results 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	-0.046	11	Pass
	5200	-0.779	11	Pass
	5240	-1.230	11	Pass
802.11n20	5180	-1.589	11	Pass
	5200	-1.945	11	Pass
	5240	-2.609	11	Pass
802.11n40	5190	-4.465	11	Pass
	5230	-5.070	11	Pass
802.11ac20	5180	-1.741	11	Pass
	5200	-2.220	11	Pass
	5240	-2.786	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	-0.409	11	Pass
	5200	-0.761	11	Pass
	5240	-0.765	11	Pass
802.11n20	5180	-1.935	11	Pass
	5200	-1.974	11	Pass
	5240	-1.890	11	Pass
802.11n40	5190	-4.509	11	Pass
	5230	-4.357	11	Pass
802.11ac20	5180	-1.775	11	Pass
	5200	-2.003	11	Pass
	5240	-1.965	11	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	1.252	11	Pass
	5200	1.051	11	Pass
	5240	0.776	11	Pass
802.11n40	5190	-1.477	11	Pass
	5230	-1.689	11	Pass
802.11ac20	5180	1.252	11	Pass
	5200	1.252	11	Pass
	5240	1.051	11	Pass

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	0.734	11	Pass
	5300	-1.929	11	Pass
	5320	-2.130	11	Pass
802.11n20	5260	-0.665	11	Pass
	5300	-2.847	11	Pass
	5320	-3.210	11	Pass
802.11n40	5270	-2.898	11	Pass
	5310	-5.743	11	Pass
802.11ac20	5260	-0.376	11	Pass
	5300	-2.668	11	Pass
	5320	-2.988	11	Pass

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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	2.018	11	Pass
	5300	-0.224	11	Pass
	5320	-0.669	11	Pass
802.11n20	5260	1.048	11	Pass
	5300	-1.644	11	Pass
	5320	-2.076	11	Pass
802.11n40	5270	-1.777	11	Pass
	5310	-4.399	11	Pass
802.11ac20	5260	0.885	11	Pass
	5300	-1.354	11	Pass
	5320	-1.694	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	5180	3.286	11	Pass
	5200	0.806	11	Pass
	5240	0.404	11	Pass
802.11n40	5190	0.709	11	Pass
	5230	-2.009	11	Pass
802.11ac20	5180	3.310	11	Pass
	5200	1.050	11	Pass
	5240	0.720	11	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	-9.601	-2.611	30	Pass
	5785	-10.254	-3.264	30	Pass
	5825	-12.658	-5.668	30	Pass
802.11n20	5745	-10.719	-3.729	30	Pass
	5785	-11.277	-4.287	30	Pass
	5825	-14.204	-7.214	30	Pass
802.11n40	5755	-13.226	-6.236	30	Pass
	5795	-14.072	-7.082	30	Pass
802.11ac20	5745	-10.732	-3.742	30	Pass
	5785	-11.533	-4.543	30	Pass
	5825	-14.149	-7.159	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/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-9.140	-2.150	30	Pass
	5785	-10.076	-3.086	30	Pass
	5825	-12.351	-5.361	30	Pass
802.11n20	5745	-10.544	-3.554	30	Pass
	5785	-10.712	-3.722	30	Pass
	5825	-13.420	-6.430	30	Pass
802.11n40	5755	-13.039	-6.049	30	Pass
	5795	-13.867	-6.877	30	Pass
802.11ac20	5745	-10.581	-3.591	30	Pass
	5785	-11.318	-4.328	30	Pass
	5825	-13.420	-6.430	30	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	-7.620	-0.630	30	Pass
	5785	-7.975	-0.985	30	Pass
	5825	-10.784	-3.794	30	Pass
802.11n40	5755	-10.121	-3.131	30	Pass
	5795	-10.958	-3.968	30	Pass
802.11ac20	5745	-7.646	-0.656	30	Pass
	5785	-8.414	-1.424	30	Pass
	5825	-10.759	-3.769	30	Pass

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

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

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

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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Test_Graph_802.11n20_ANT1_5200_MCS0_PSD

Test_Graph_802.11n20_ANT1_5240_MCS0_PSD

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Test_Graph_802.11n40_ANT1_5190_MCS0_PSD

Test_Graph_802.11n40_ANT1_5230_MCS0_PSD

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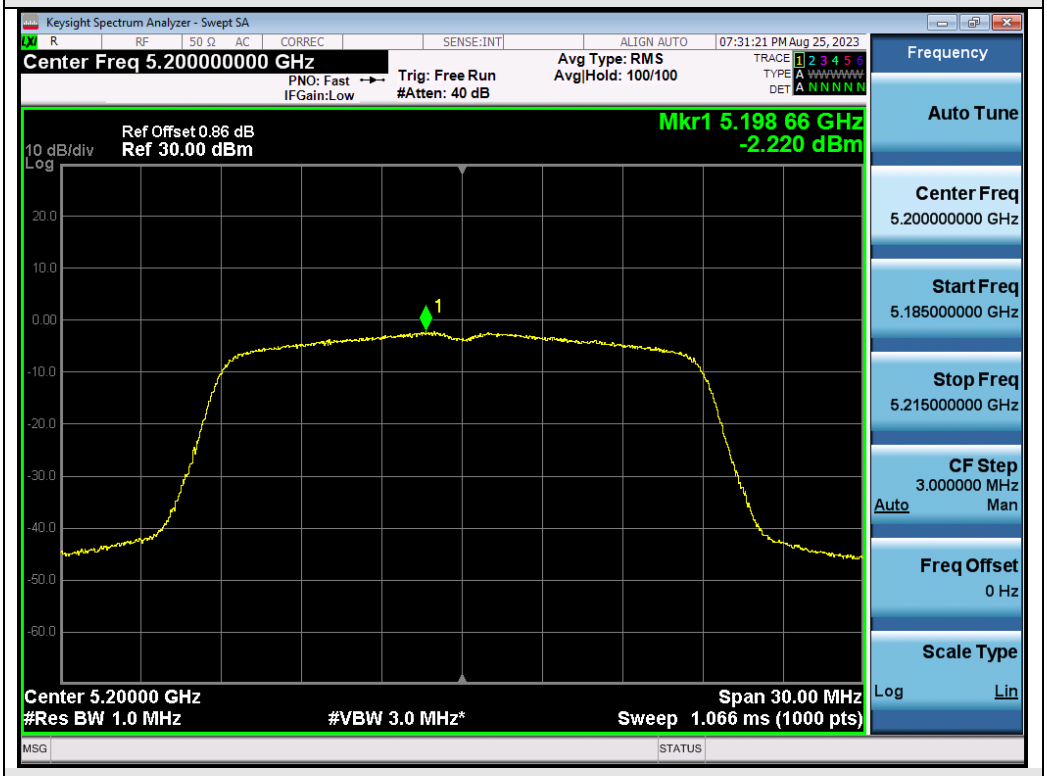

Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD

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Test_Graph_802.11ac20_ANT1_5240_MCS9_PSD

Test_Graph_802.11a_ANT2_5180_6Mbps_PSD

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Test_Graph_802.11a_ANT2_5200_6Mbps_PSD

Test_Graph_802.11a_ANT2_5240_6Mbps_PSD

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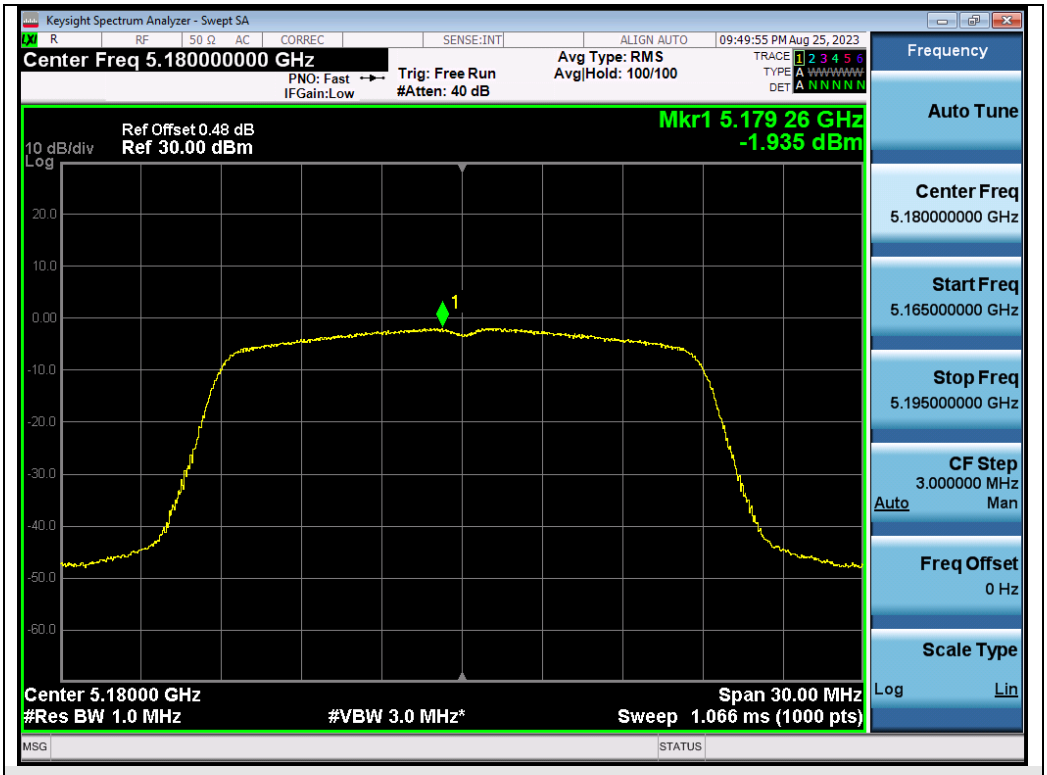

Test_Graph_802.11n20_ANT2_5180_MCS0_PSD

Test_Graph_802.11n20_ANT2_5200_MCS0_PSD

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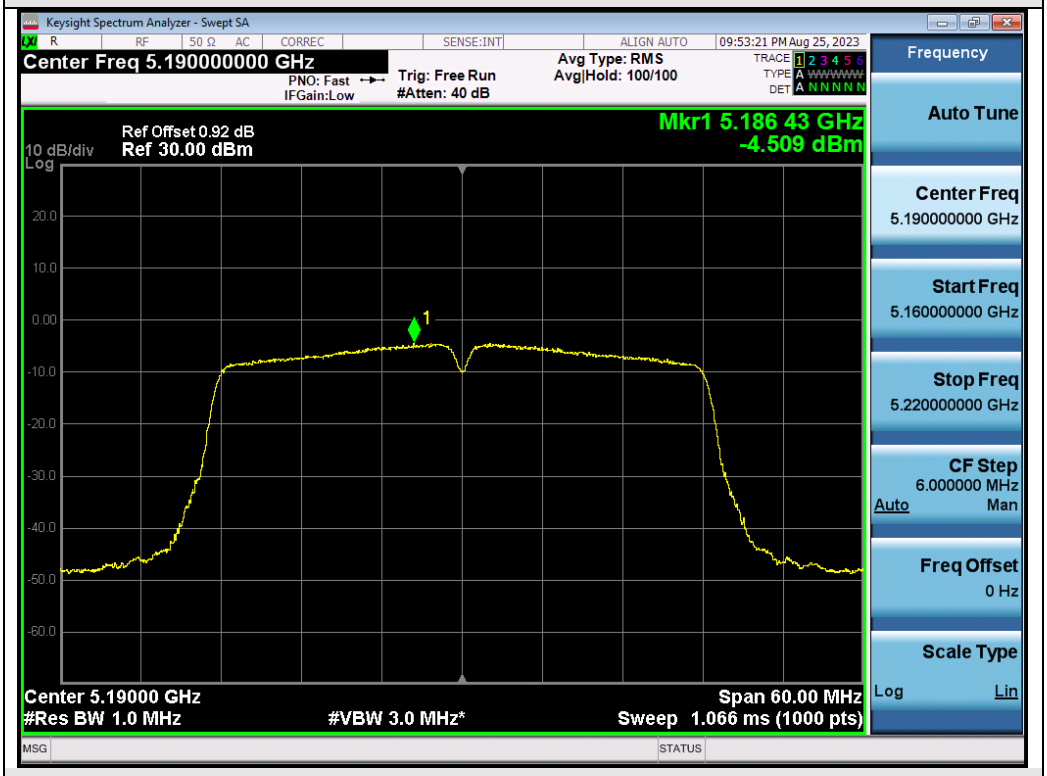
Test_Graph_802.11n20_ANT2_5240_MCS0_PSD



Test_Graph_802.11n40_ANT2_5190_MCS0_PSD

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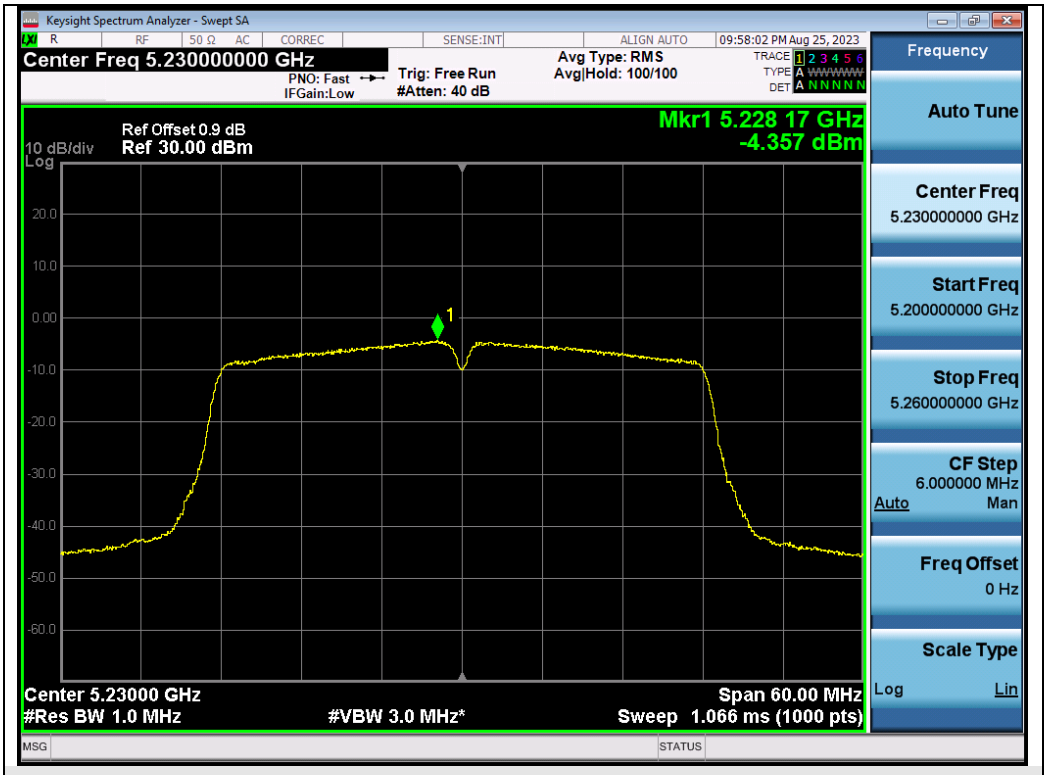

Test_Graph_802.11n40_ANT2_5230_MCS0_PSD

Test_Graph_802.11ac20_ANT2_5180_MCS0_PSD

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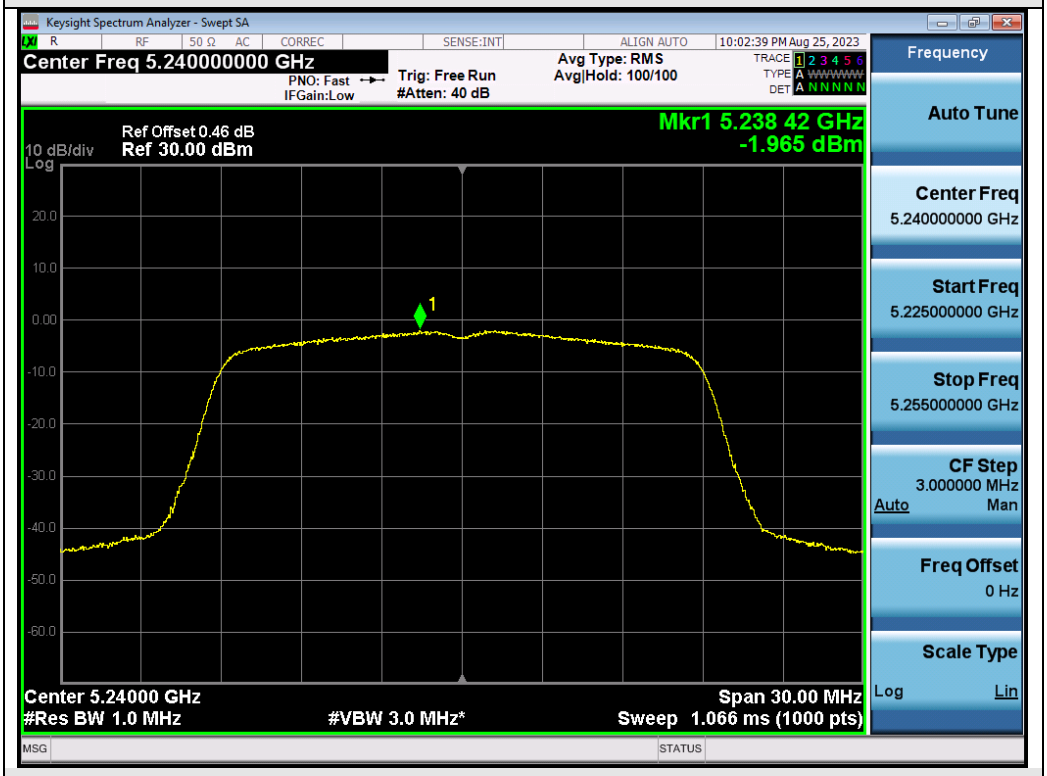
Test_Graph_802.11ac20_ANT2_5200_MCS0_PSD



Test_Graph_802.11ac20_ANT2_5240_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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Test_Graph_802.11n20_ANT1_5300_MCS0_PSD

Test_Graph_802.11n20_ANT1_5320_MCS0_PSD

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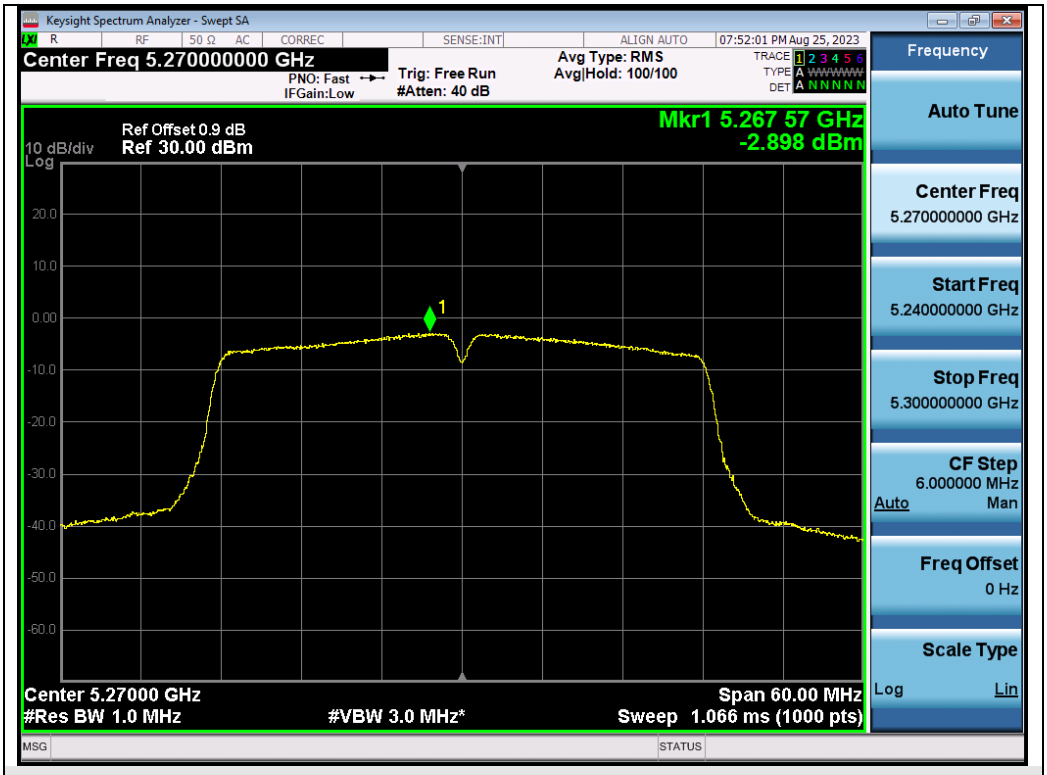

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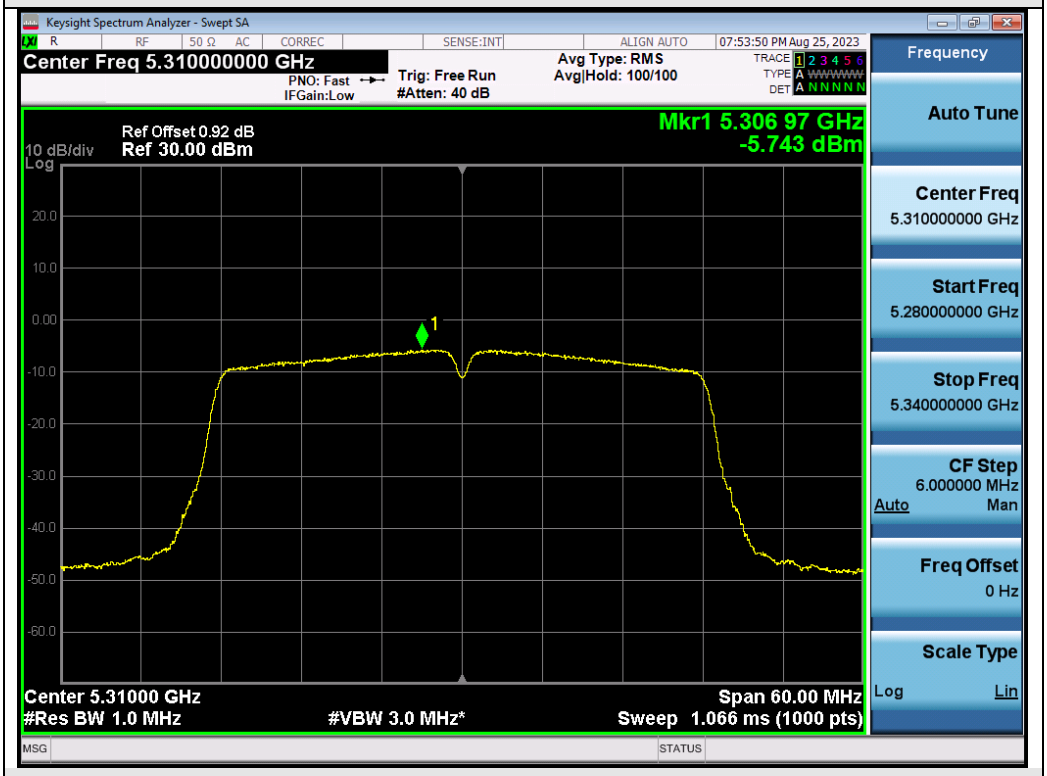

Test_Graph_802.11n40_ANT1_5310_MCS0_PSD

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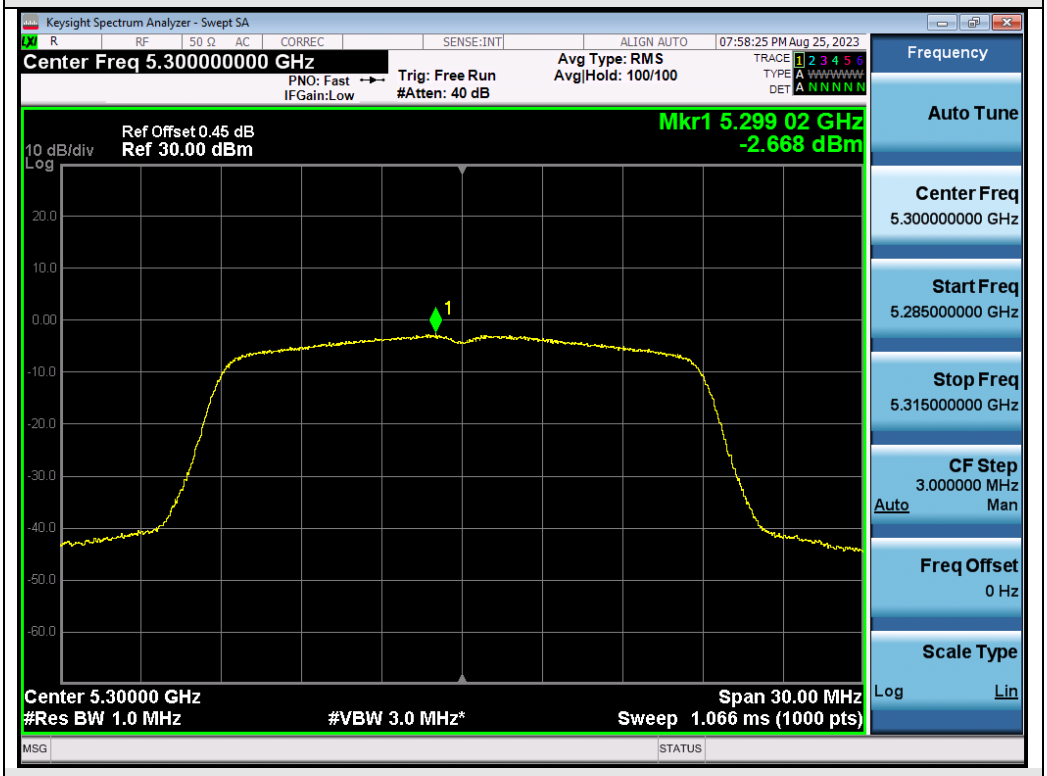
Test_Graph_802.11ac20_ANT1_5260_MCS0_PSD



Test_Graph_802.11ac20_ANT1_5300_MCS0_PSD

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Test_Graph_802.11ac20_ANT1_5320_MCS9_PSD

Test_Graph_802.11a_ANT2_5260_6Mbps_PSD

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Test_Graph_802.11a_ANT2_5300_6Mbps_PSD

Test_Graph_802.11a_ANT2_5320_6Mbps_PSD

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Test_Graph_802.11n20_ANT2_5260_MCS0_PSD

Test_Graph_802.11n20_ANT2_5300_MCS0_PSD

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Test_Graph_802.11n20_ANT2_5320_MCS0_PSD

Test_Graph_802.11n40_ANT2_5270_MCS0_PSD

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Test_Graph_802.11n40_ANT2_5310_MCS0_PSD

Test_Graph_802.11ac20_ANT2_5260_MCS0_PSD

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Test_Graph_802.11ac20_ANT2_5300_MCS0_PSD

Test_Graph_802.11ac20_ANT2_5320_MCS9_PSD

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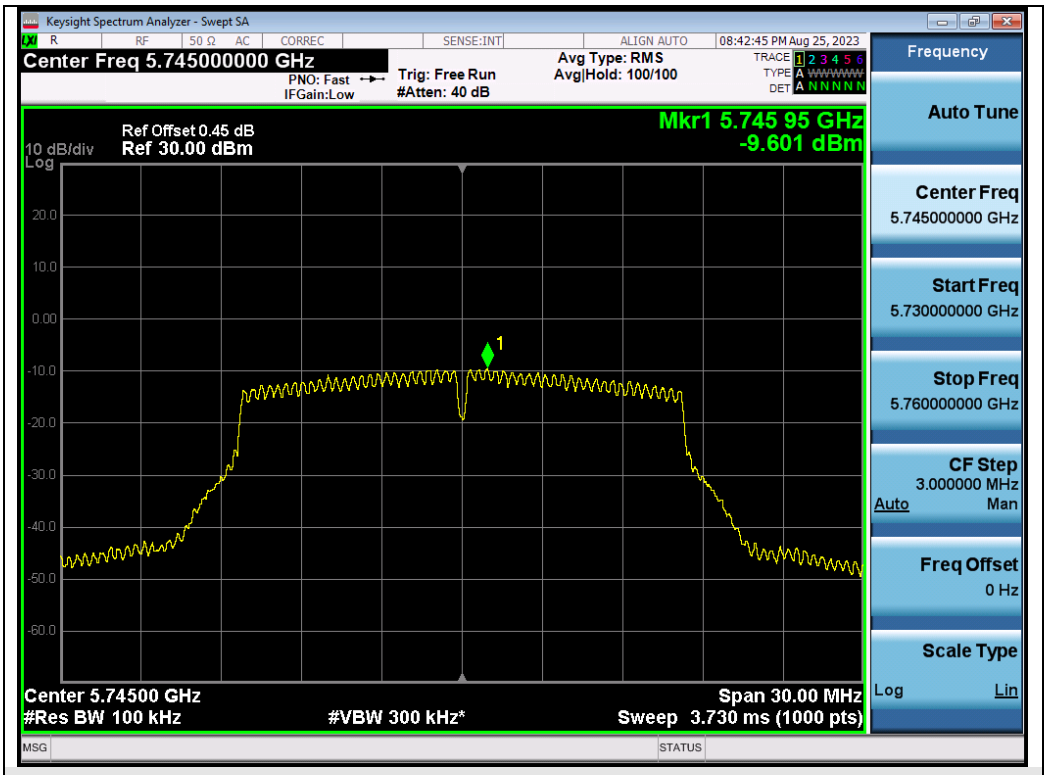
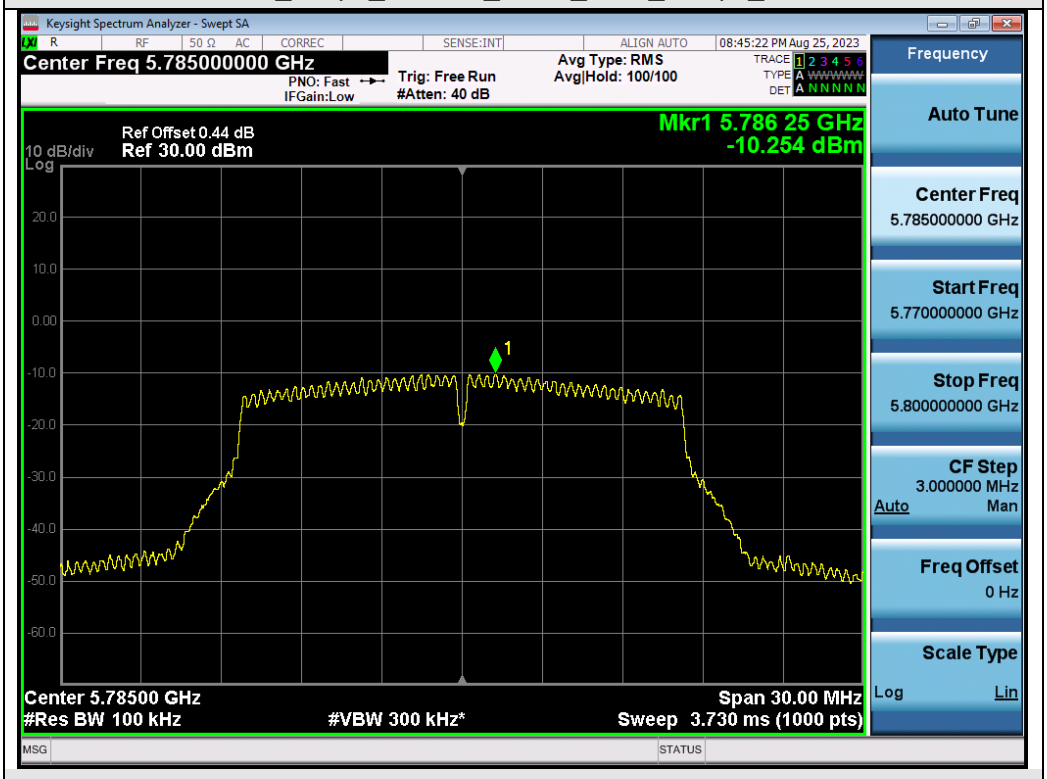
Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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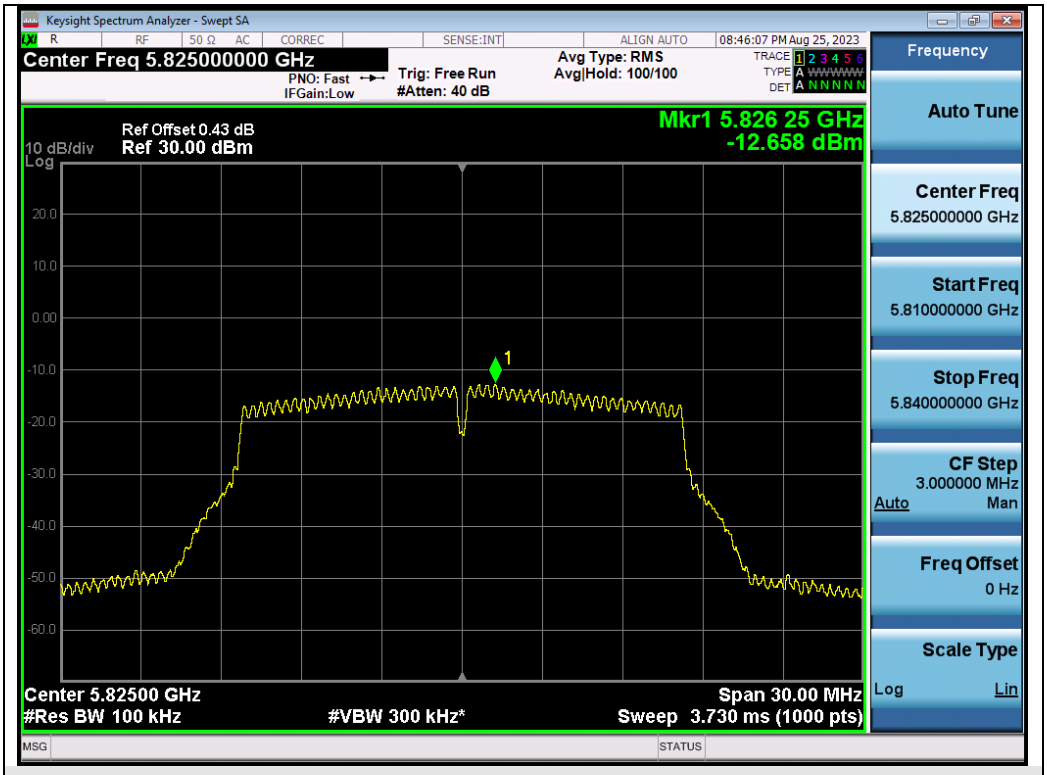

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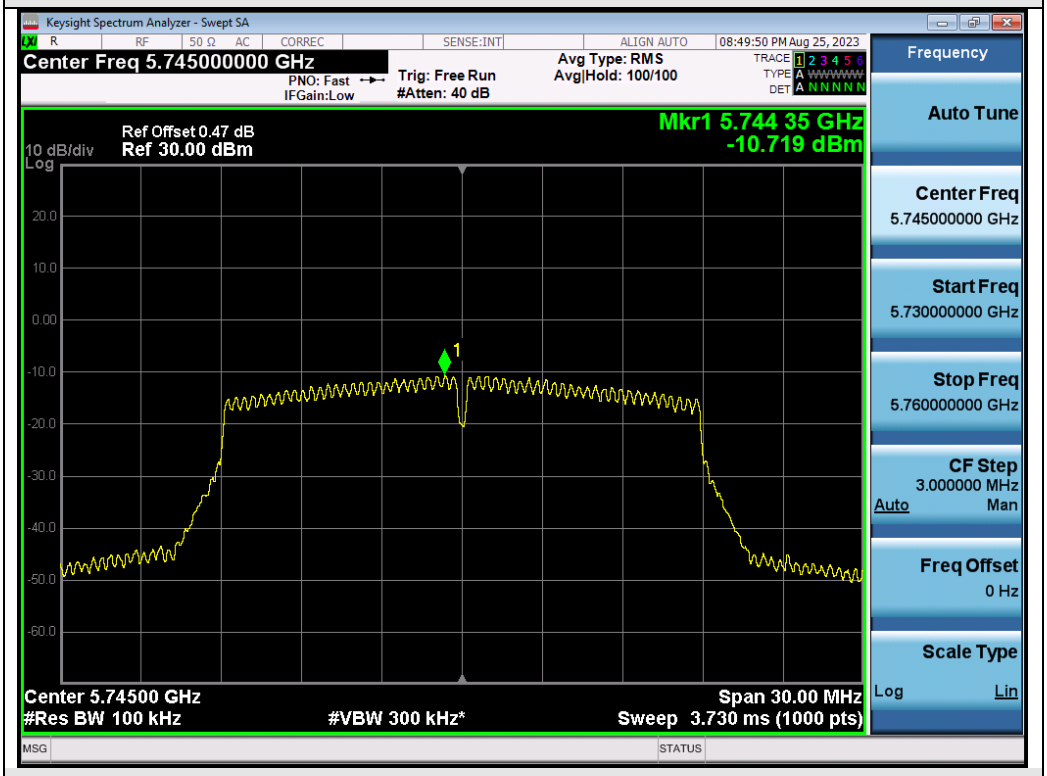

Test_Graph_802.11n20_ANT1_5745_MCS0_PSD

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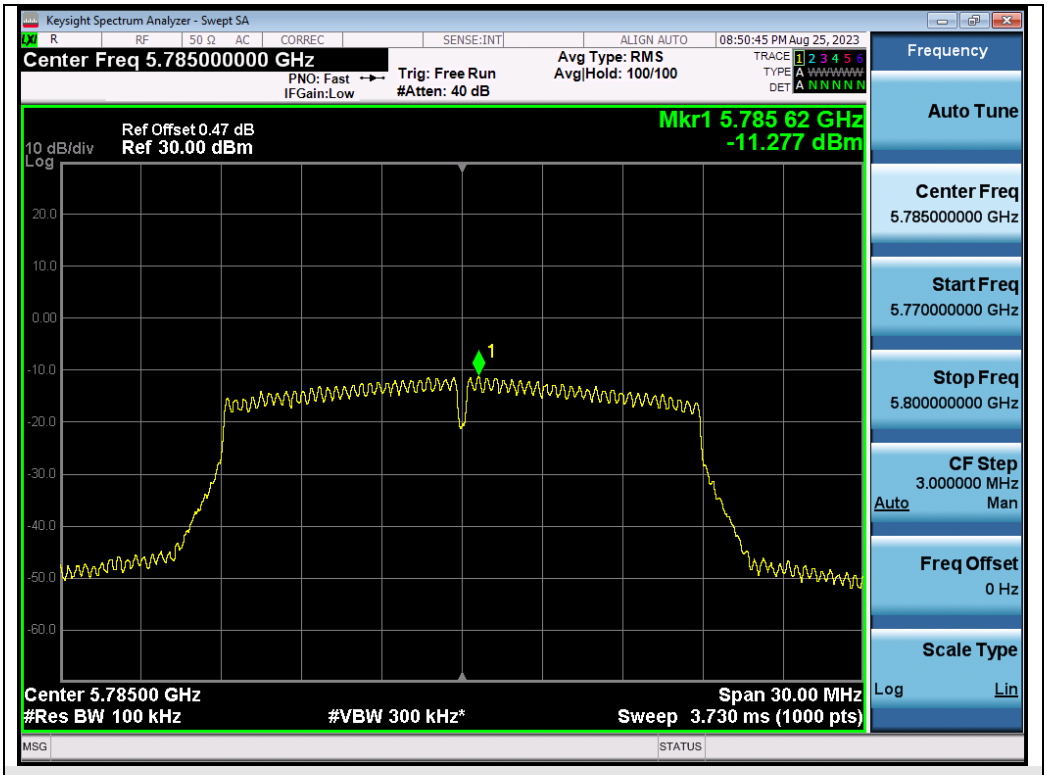

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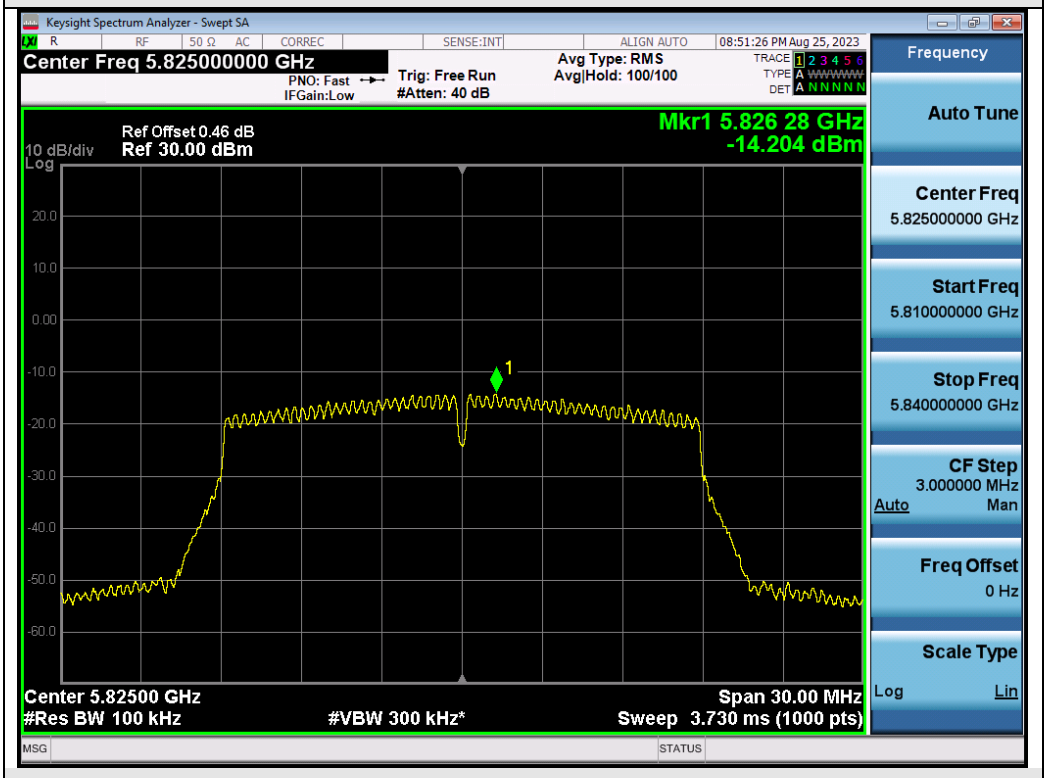

Test_Graph_802.11n20_ANT1_5825_MCS0_PSD

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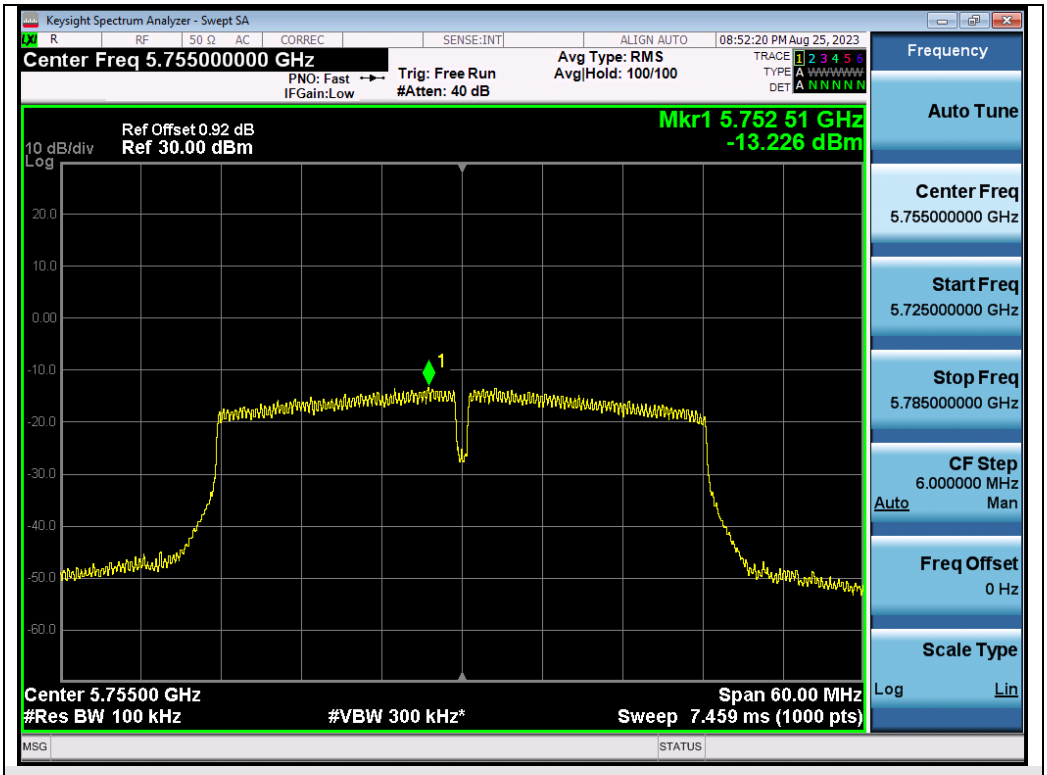

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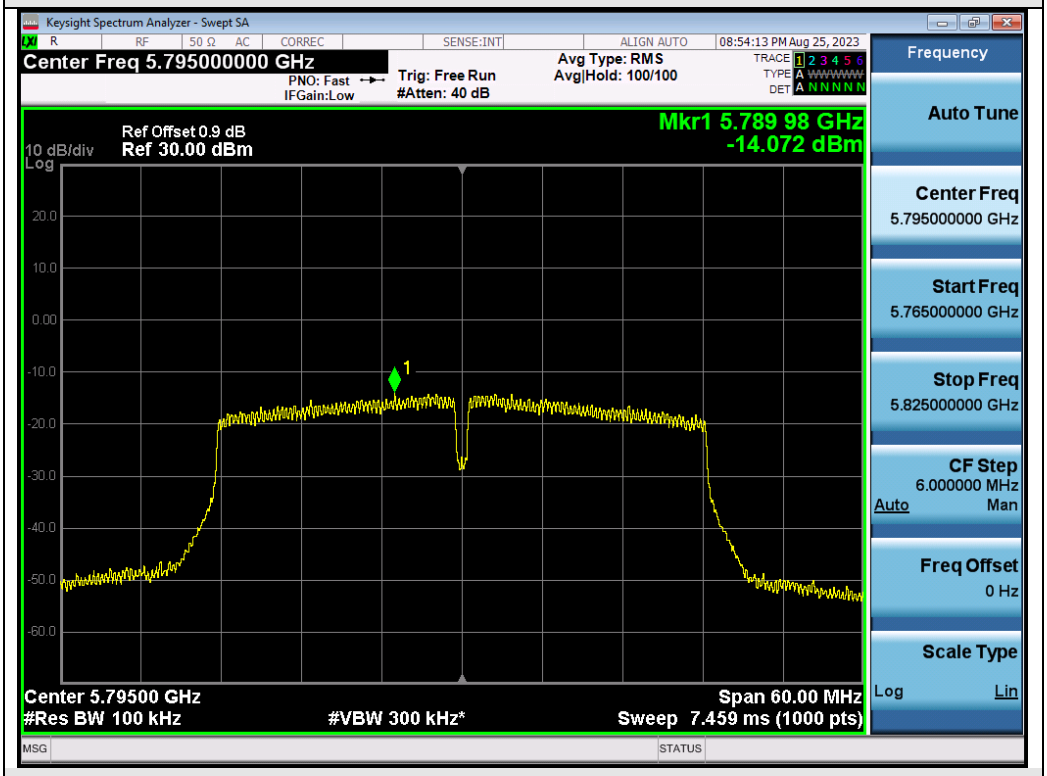

Test_Graph_802.11n40_ANT1_5795_MCS0_PSD

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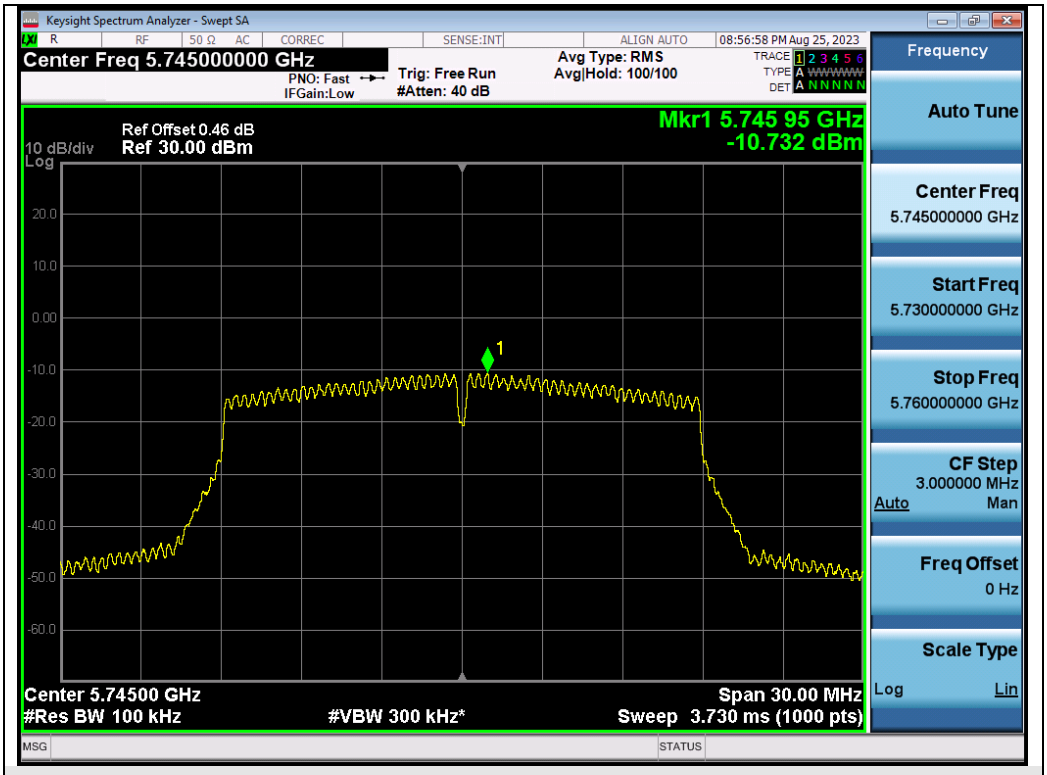

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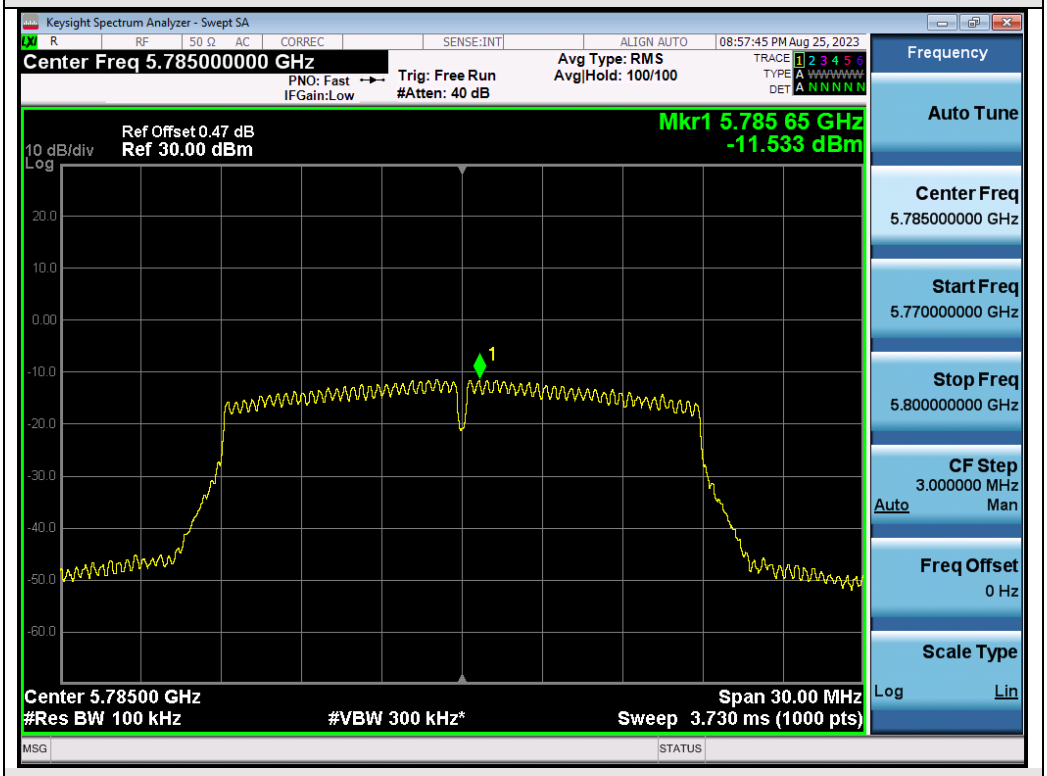

Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD

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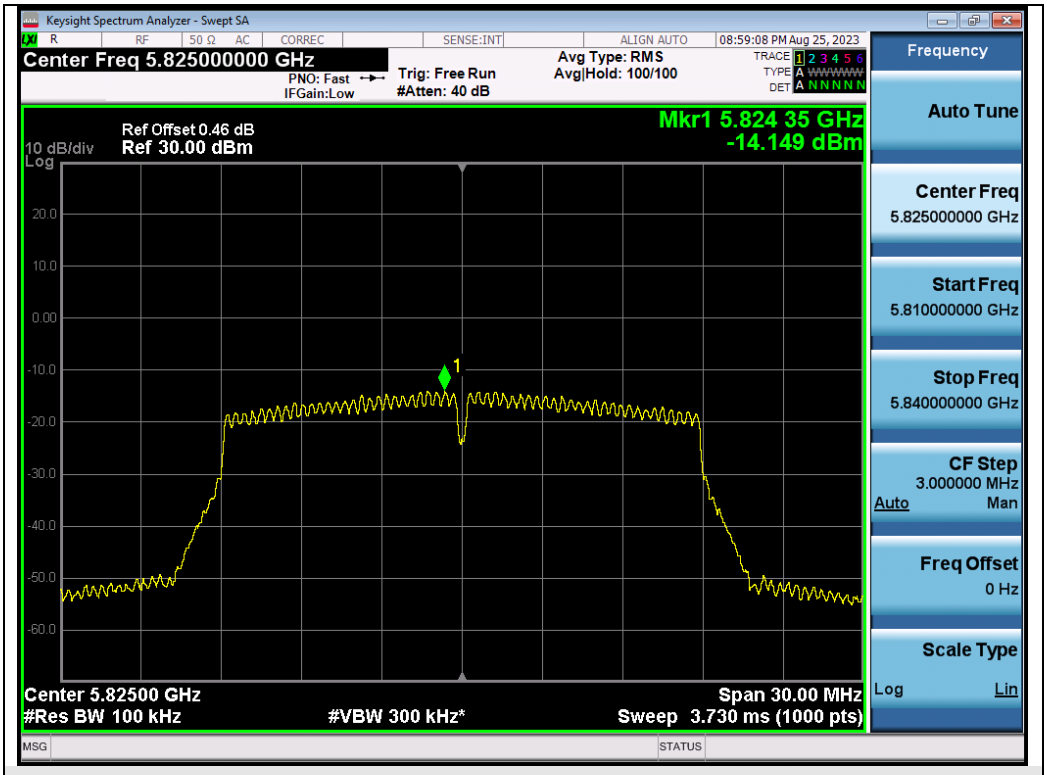

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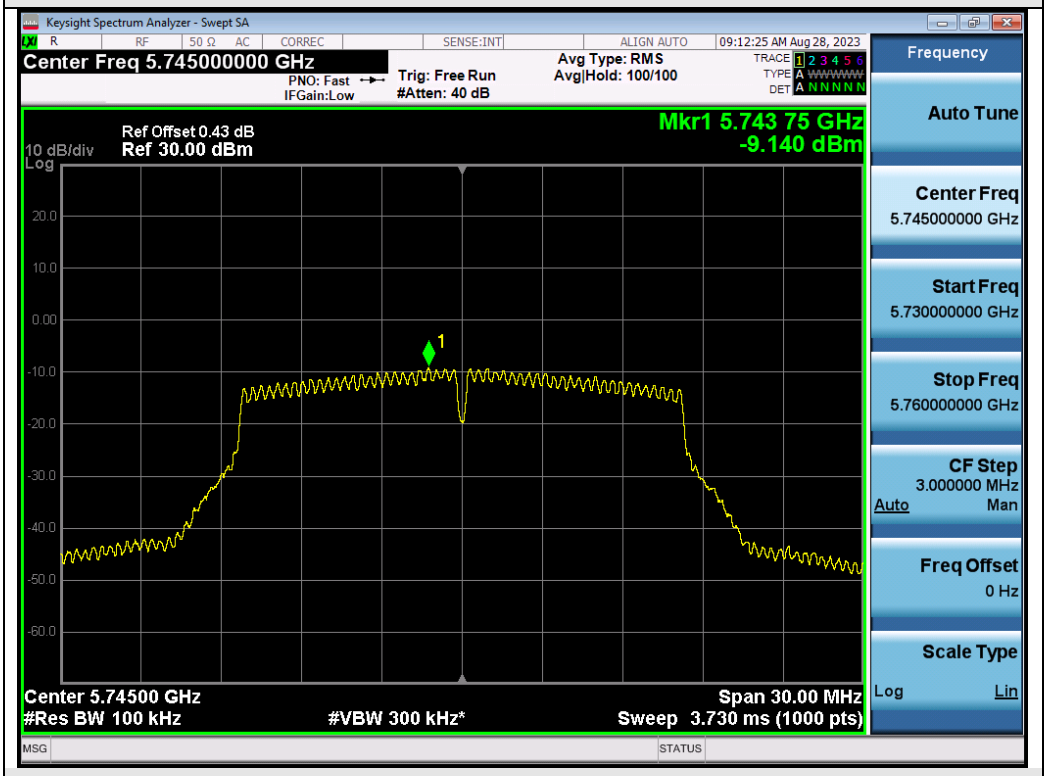

Test_Graph_802.11a_ANT2_5745_6Mbps_PSD

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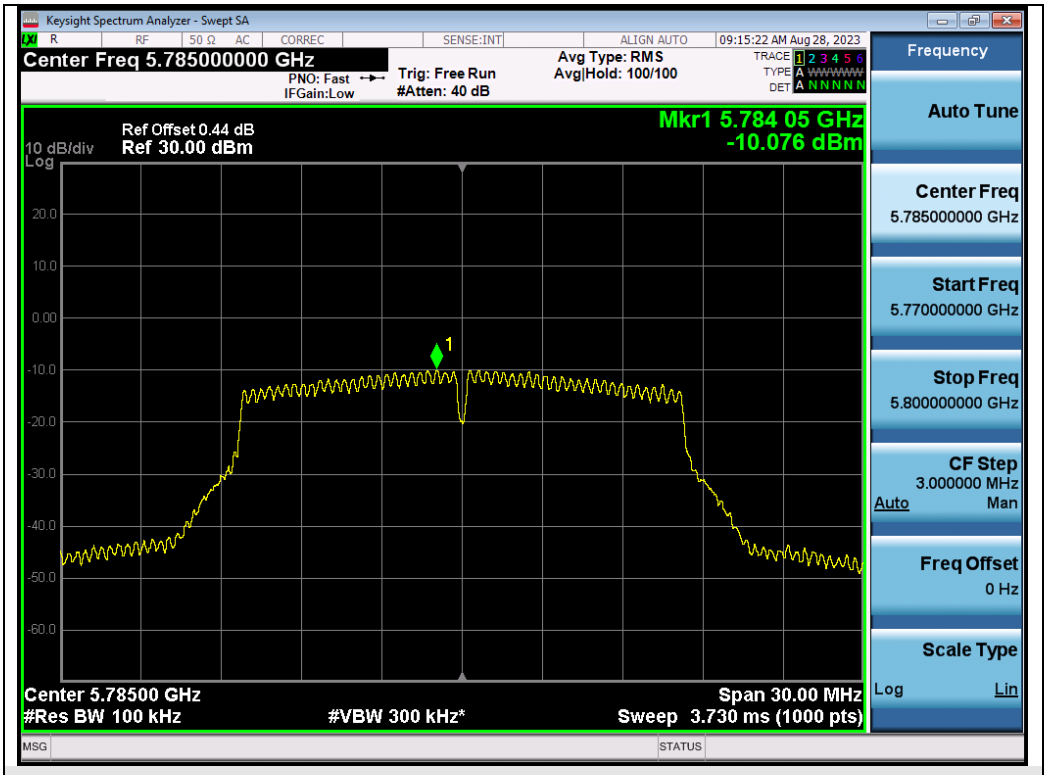

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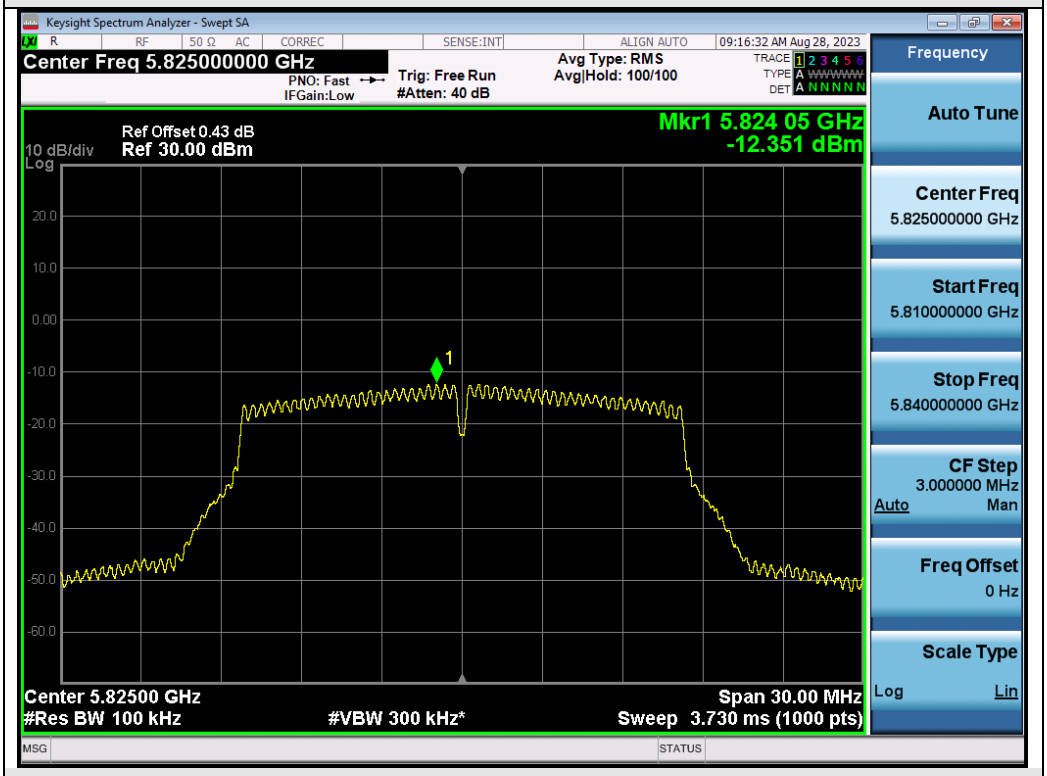

Test_Graph_802.11a_ANT2_5825_6Mbps_PSD

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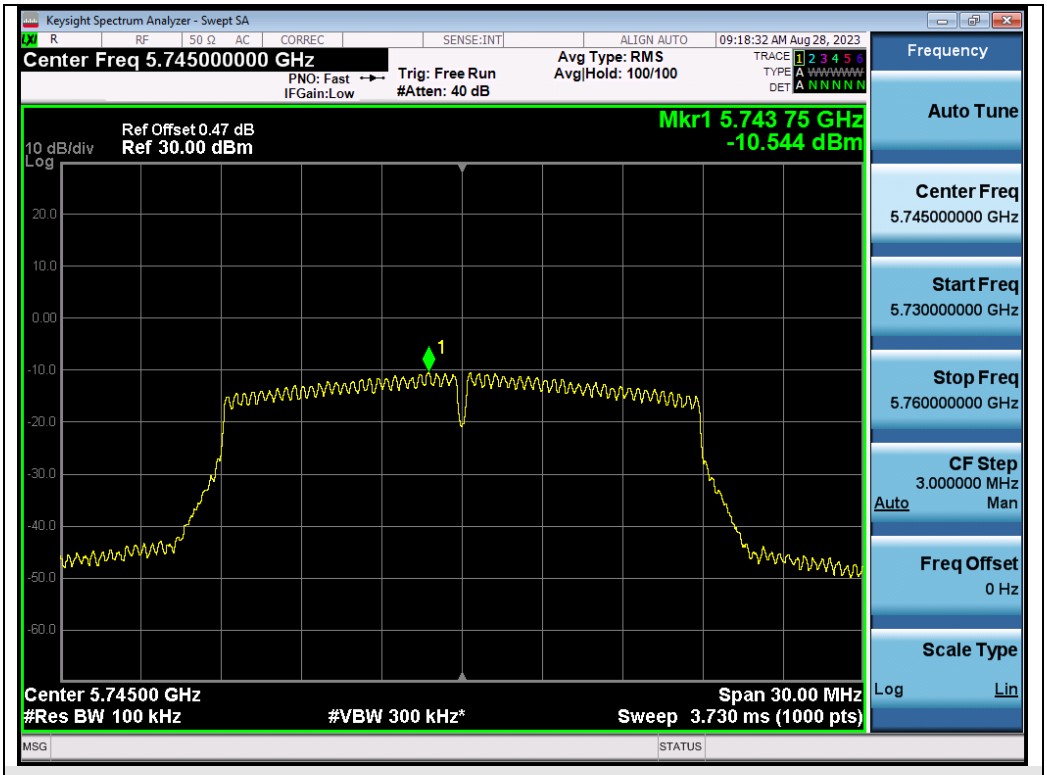

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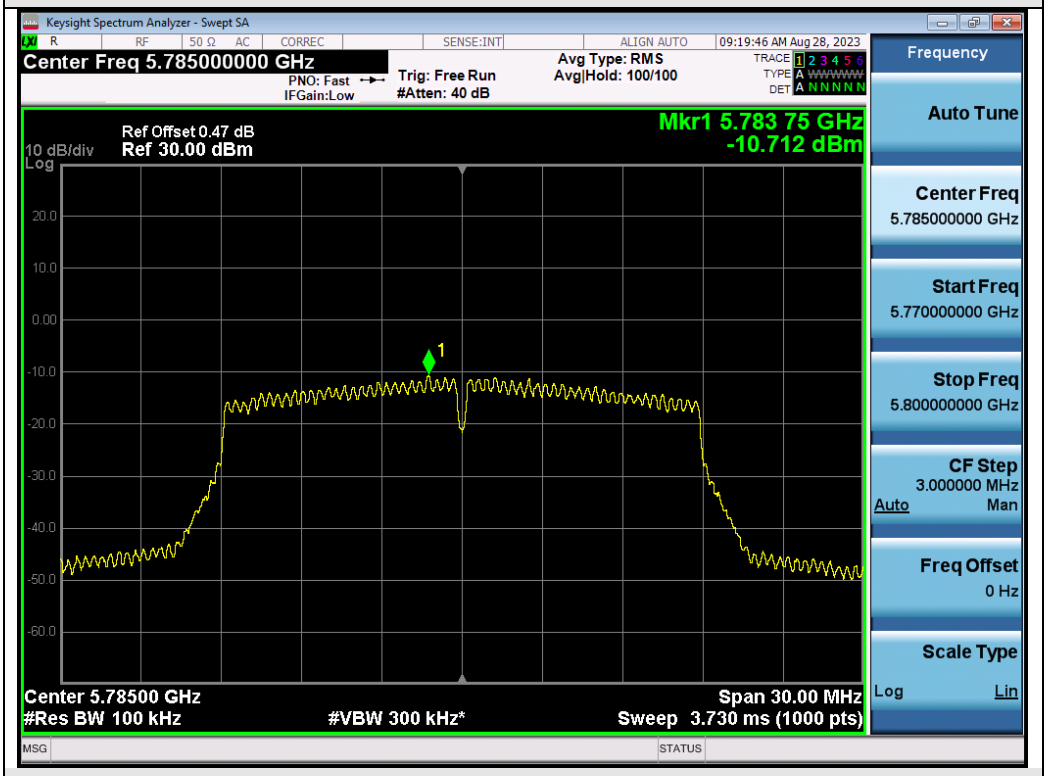

Test_Graph_802.11n20_ANT2_5785_MCS0_PSD

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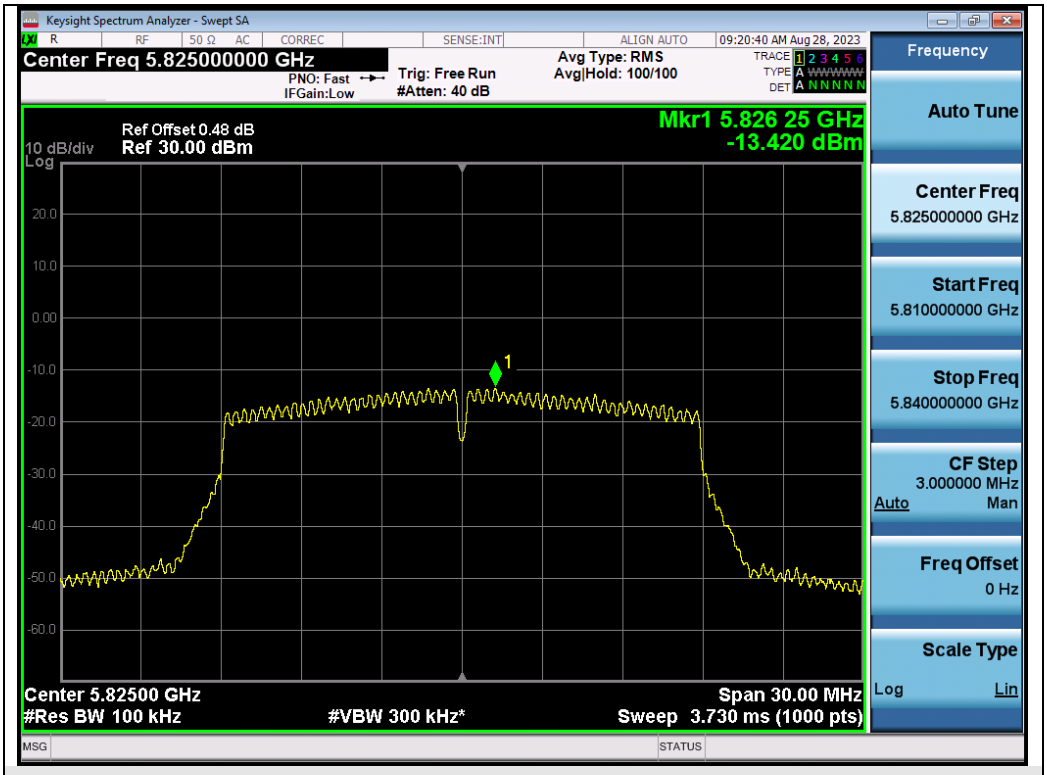

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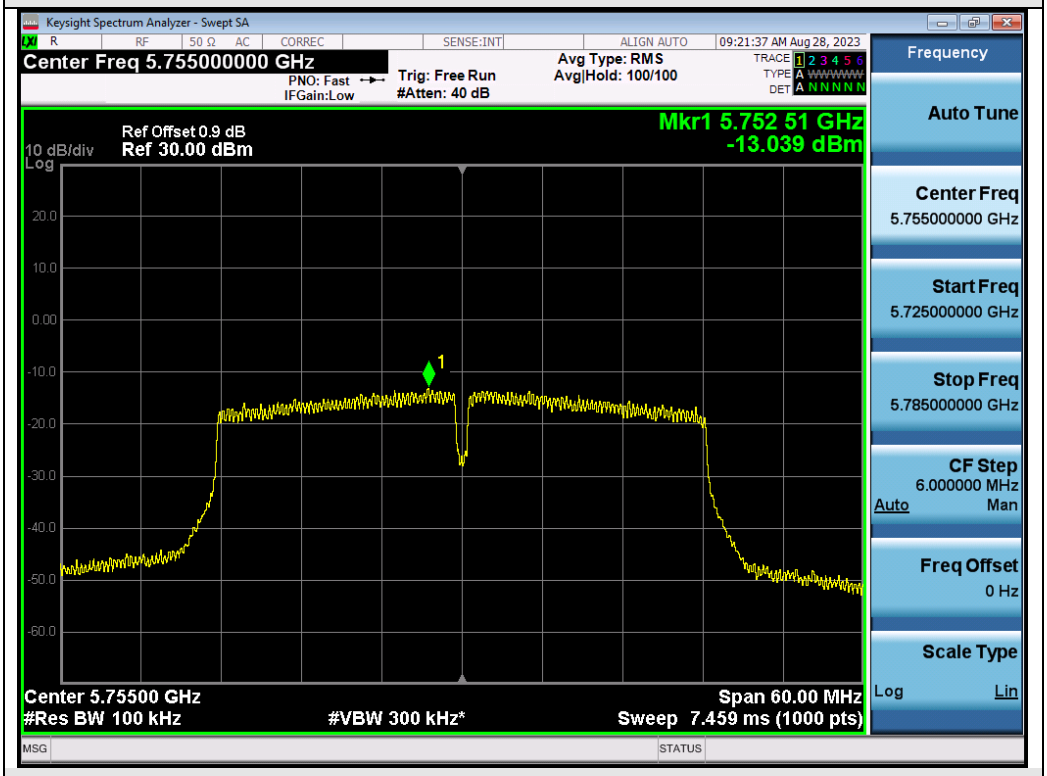

Test_Graph_802.11n40_ANT2_5755_MCS0_PSD

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