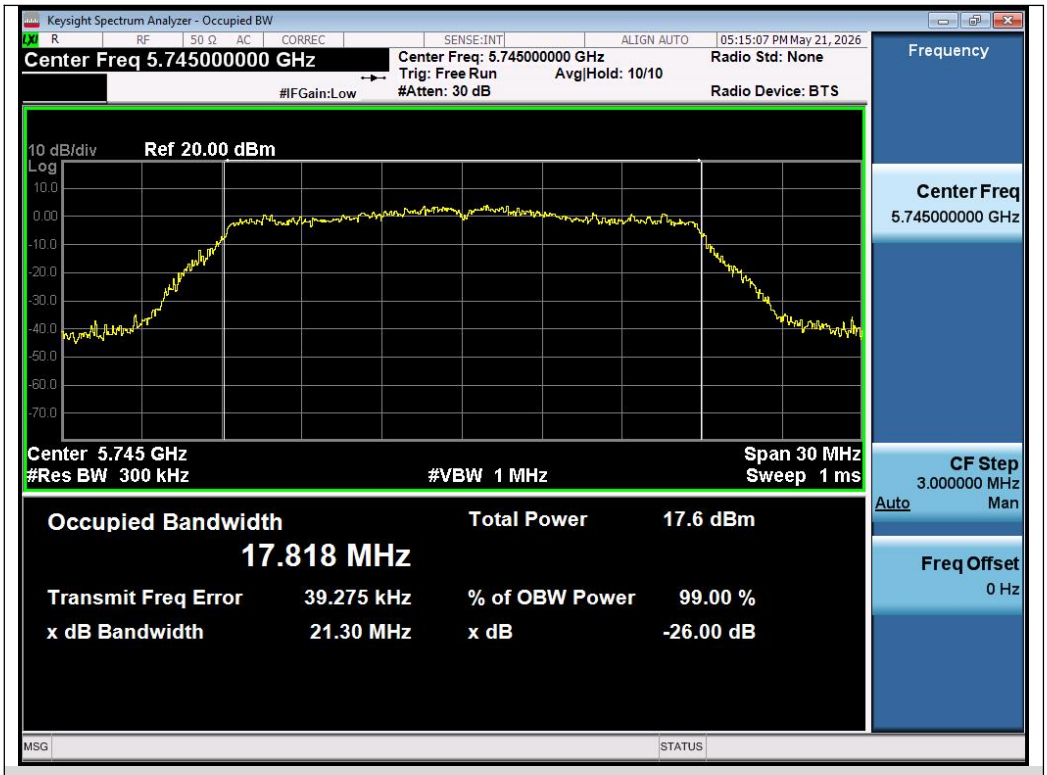

Test_Graph_802.11n20_Chain A_5745_MCS0_OBW

Test_Graph_802.11n20_Chain A_5785_MCS0_OBW

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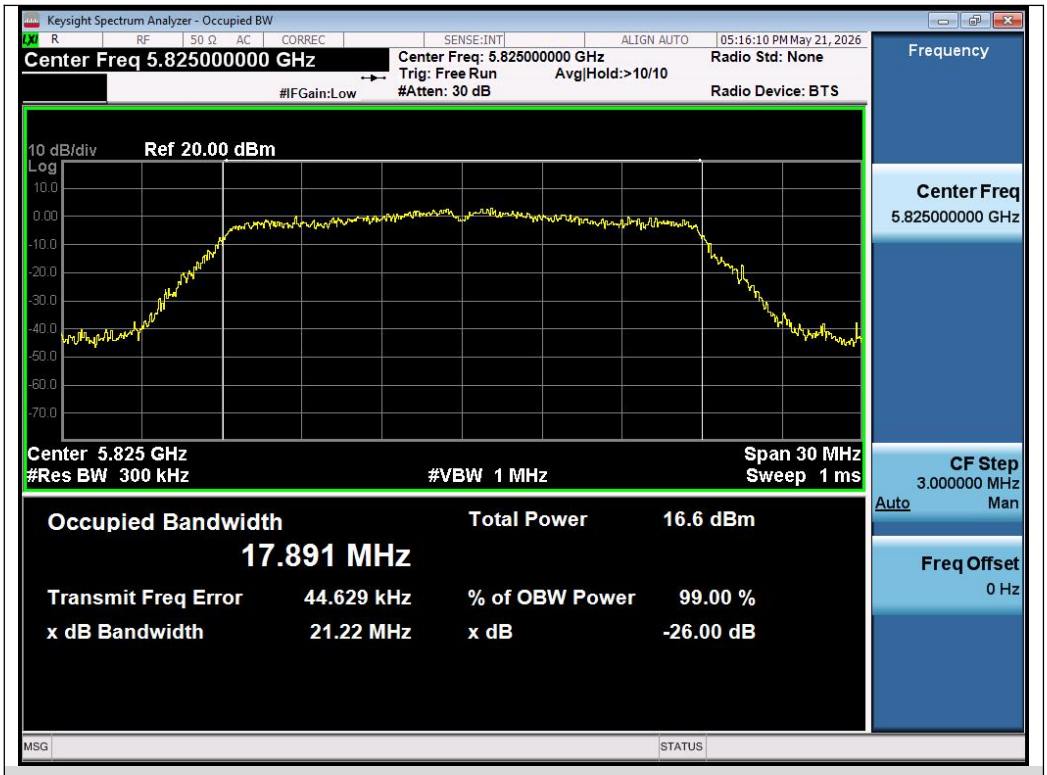
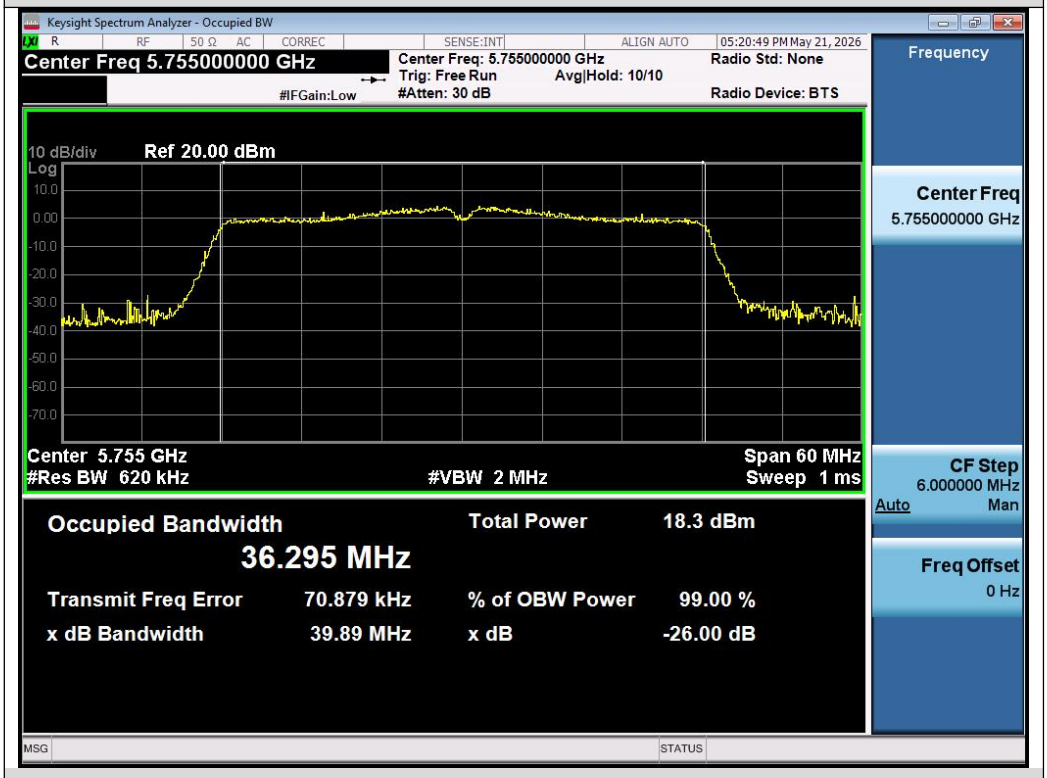


Test_Graph_802.11n20_Chain A_5825_MCS0_OBW



Test_Graph_802.11n40_Chain A_5755_MCS0_OBW

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Test_Graph_802.11n40_Chain A_5795_MCS0_OBW

Test_Graph_802.11ac20_Chain A_5745_MCS0_OBW

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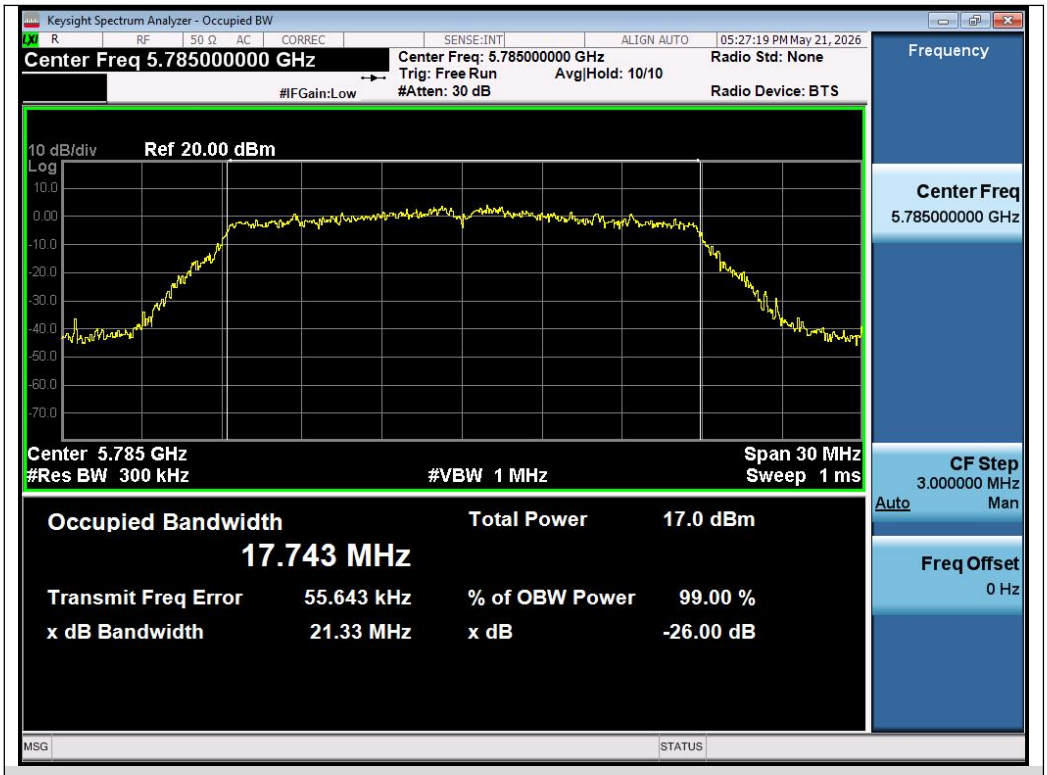
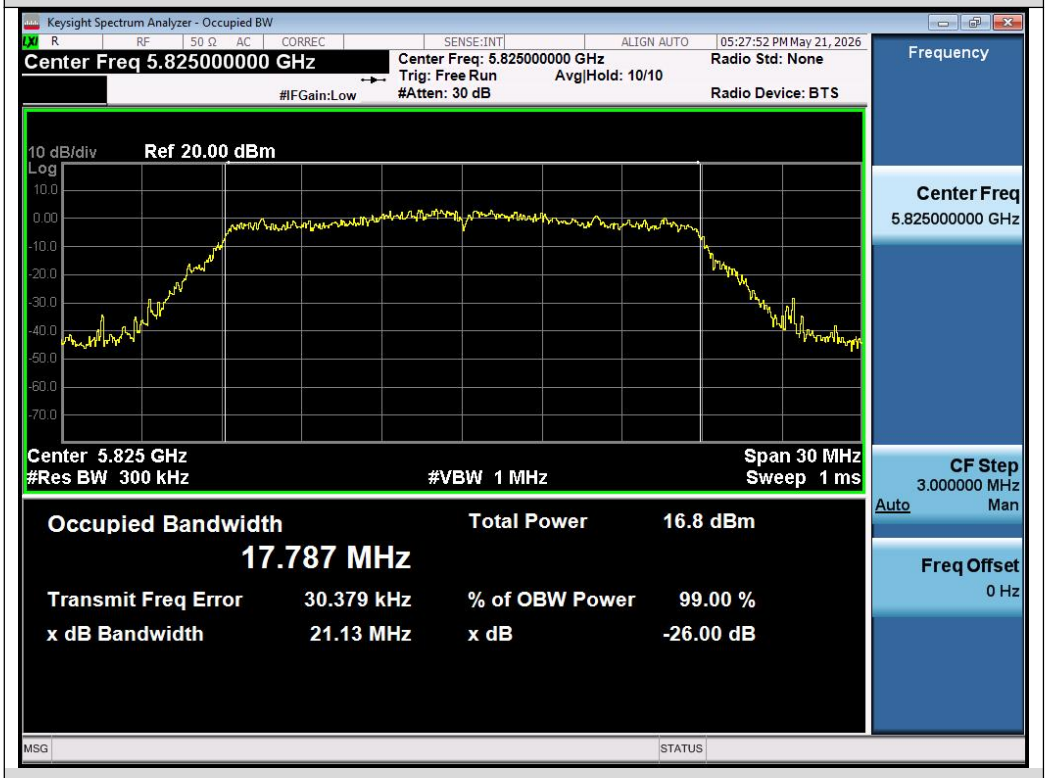


Test_Graph_802.11ac20_Chain A_5785_MCS0_OBW



Test_Graph_802.11ac20_Chain A_5825_MCS0_OBW

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Test_Graph_802.11ac40_Chain A_5755_MCS0_OBW

Test_Graph_802.11ac40_Chain A_5795_MCS0_OBW

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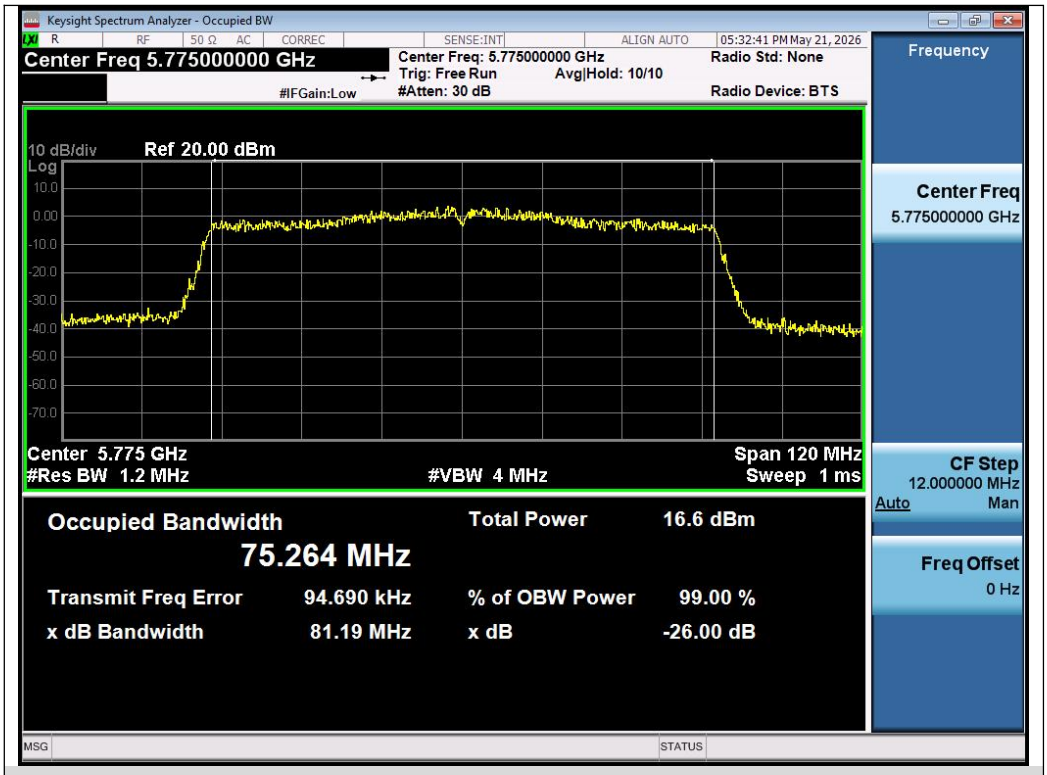

Test_Graph_802.11ac80_Chain A_5775_MCS0_OBW

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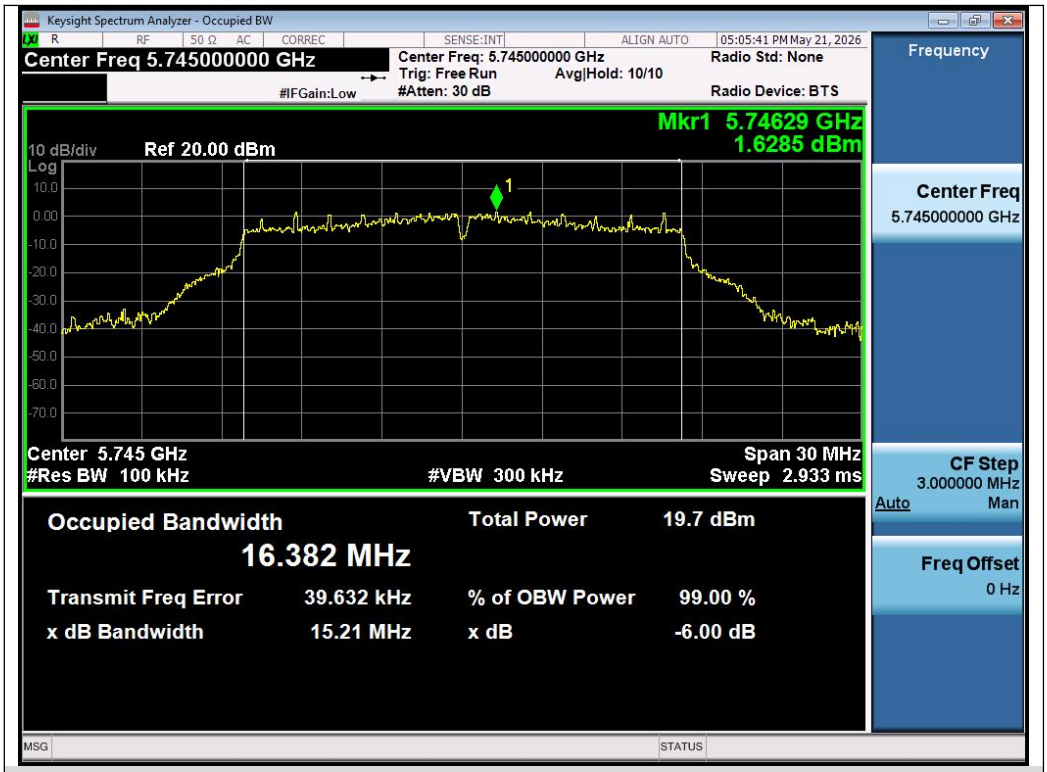
Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_Chain A_5745_6Mbps_DTSBW

Test_Graph_802.11a_Chain A_5785_6Mbps_DTSBW

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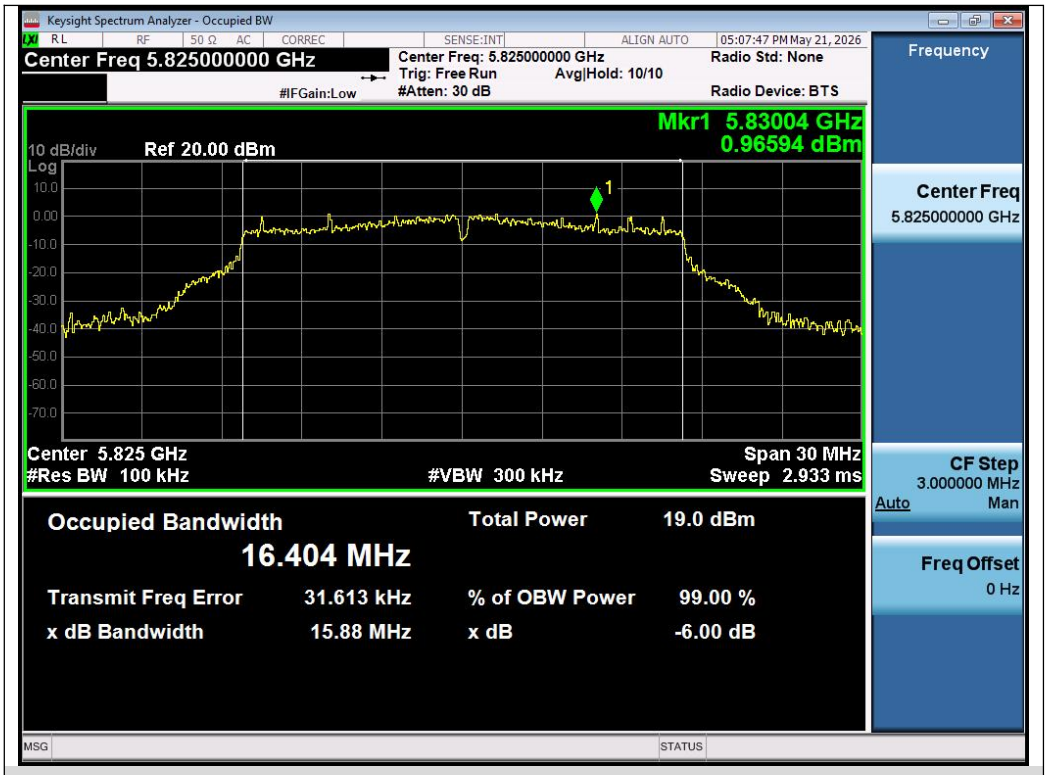

Test_Graph_802.11a_Chain A_5825_6Mbps_DTSBW

Test_Graph_802.11n20_Chain A_5745_MCS0_DTSBW

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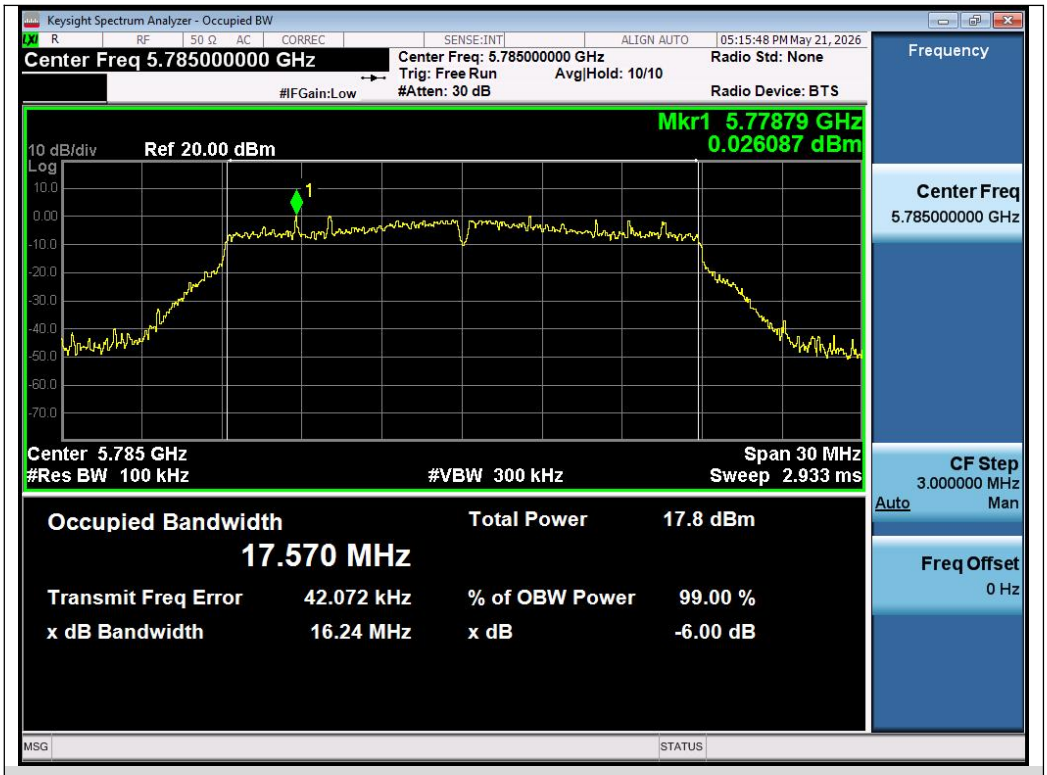

Test_Graph_802.11n20_Chain A_5785_MCS0_DTSBW

Test_Graph_802.11n20_Chain A_5825_MCS0_DTSBW

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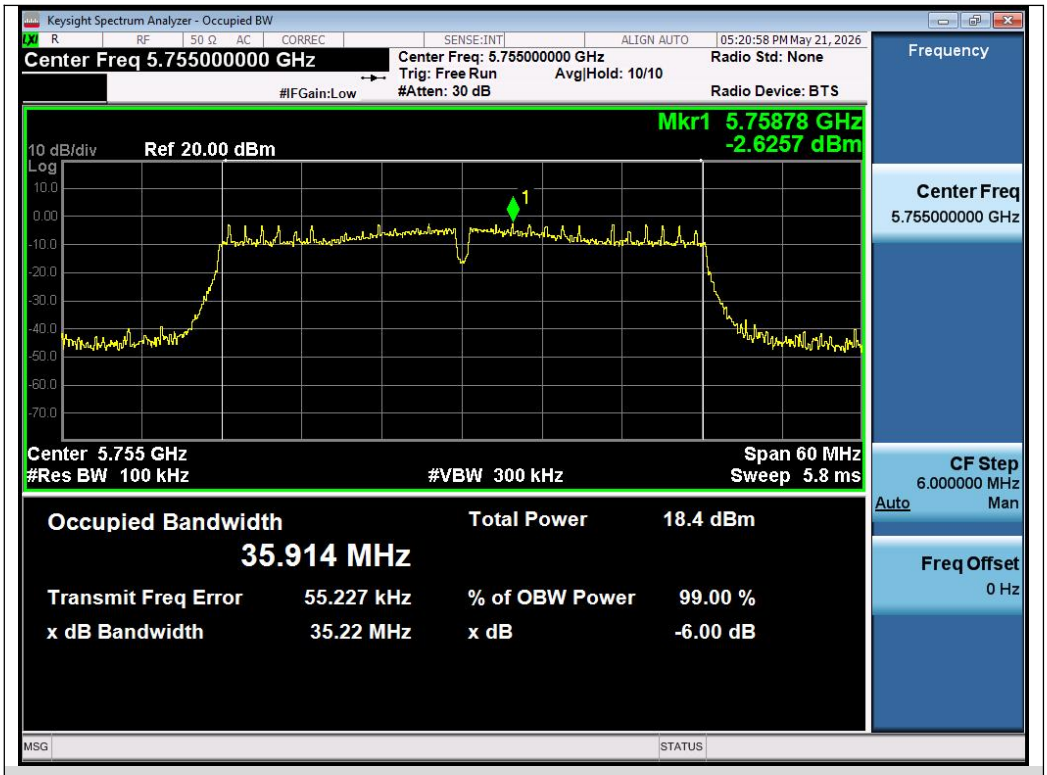
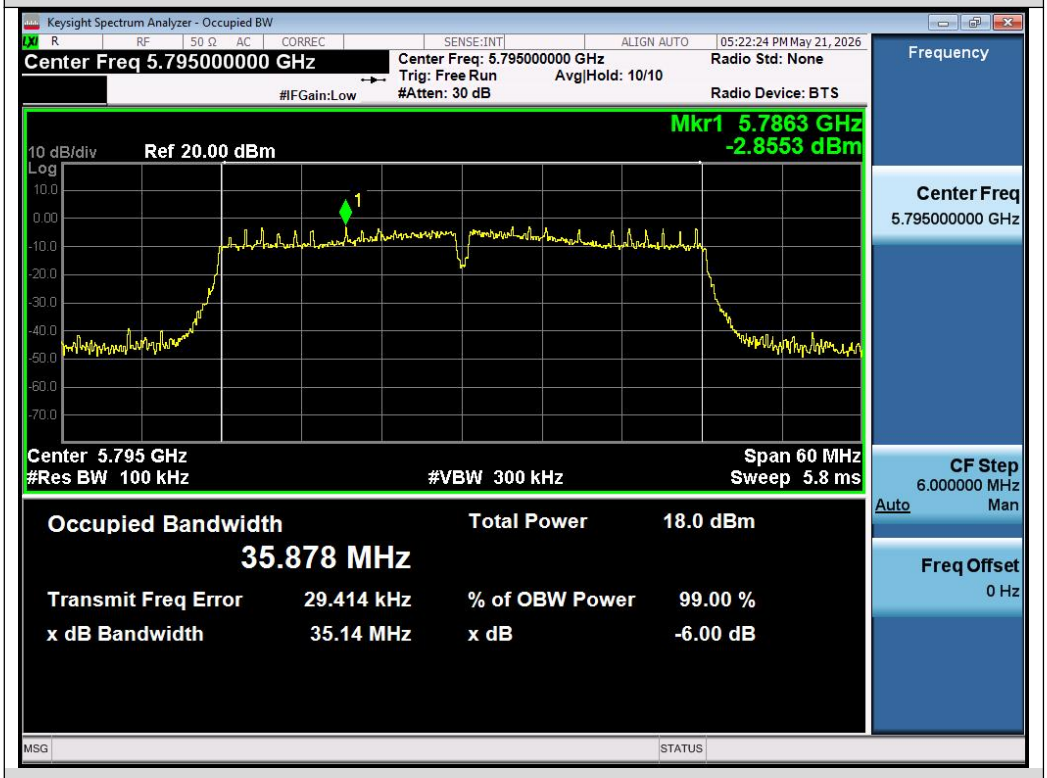


Test_Graph_802.11n40_Chain A_5755_MCS0_DTSBW



Test_Graph_802.11n40_Chain A_5795_MCS0_DTSBW

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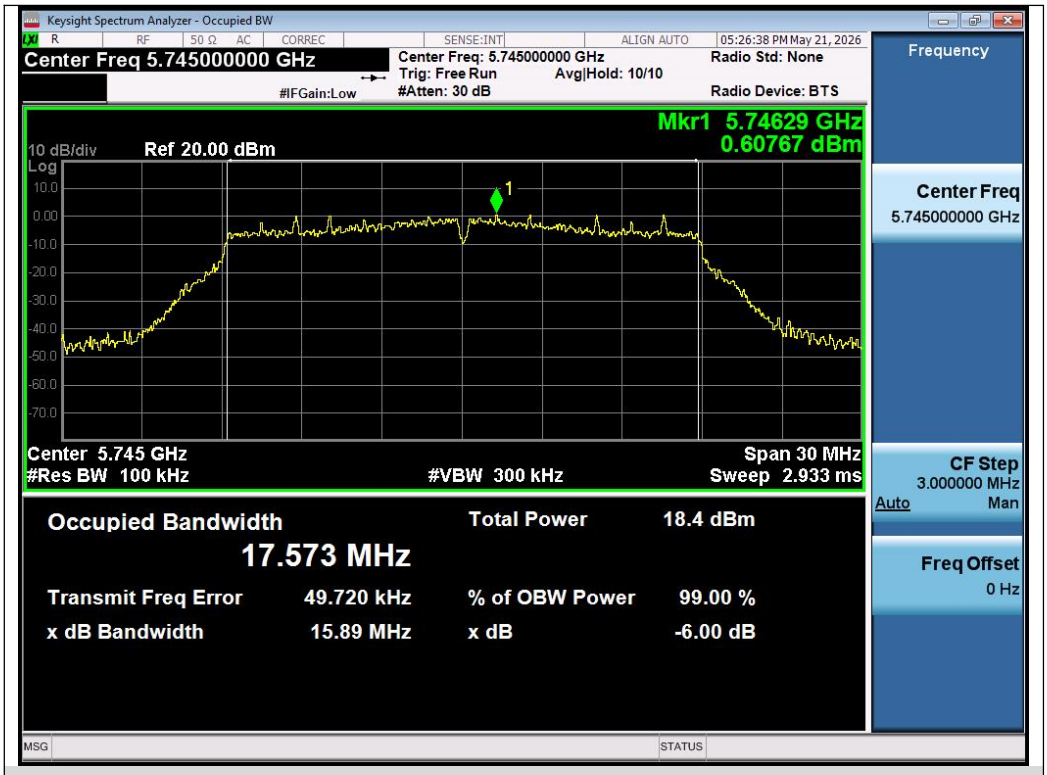
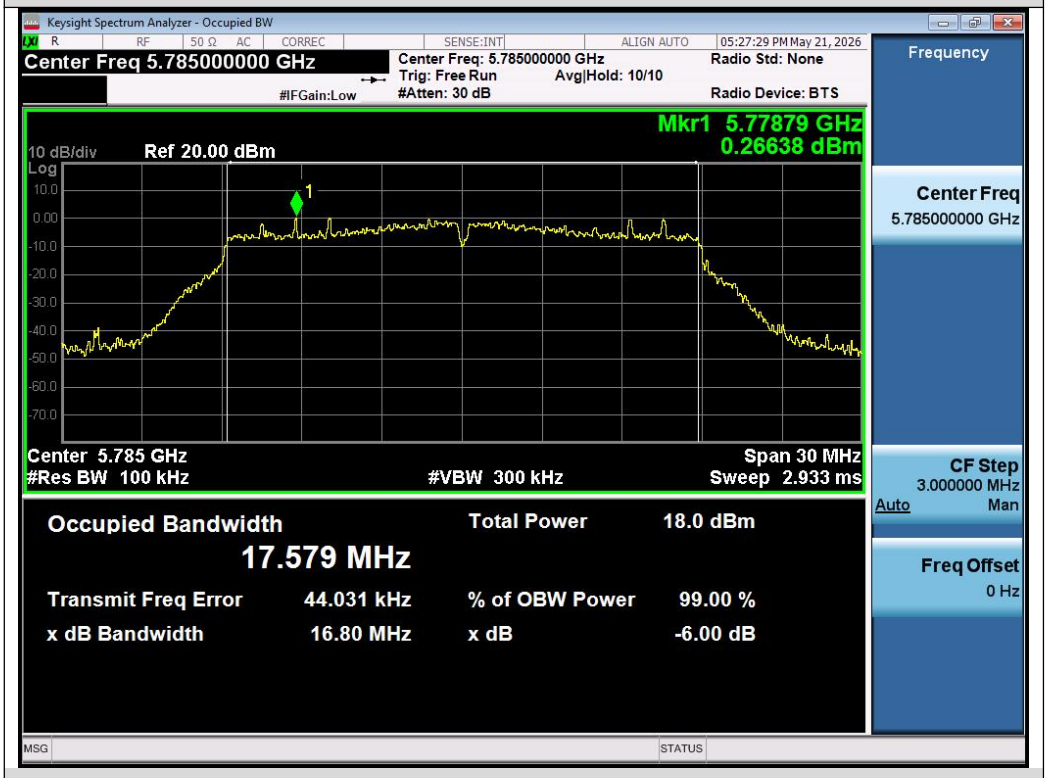


Test_Graph_802.11ac20_Chain A_5745_MCS0_DTSBW



Test_Graph_802.11ac20_Chain A_5785_MCS0_DTSBW

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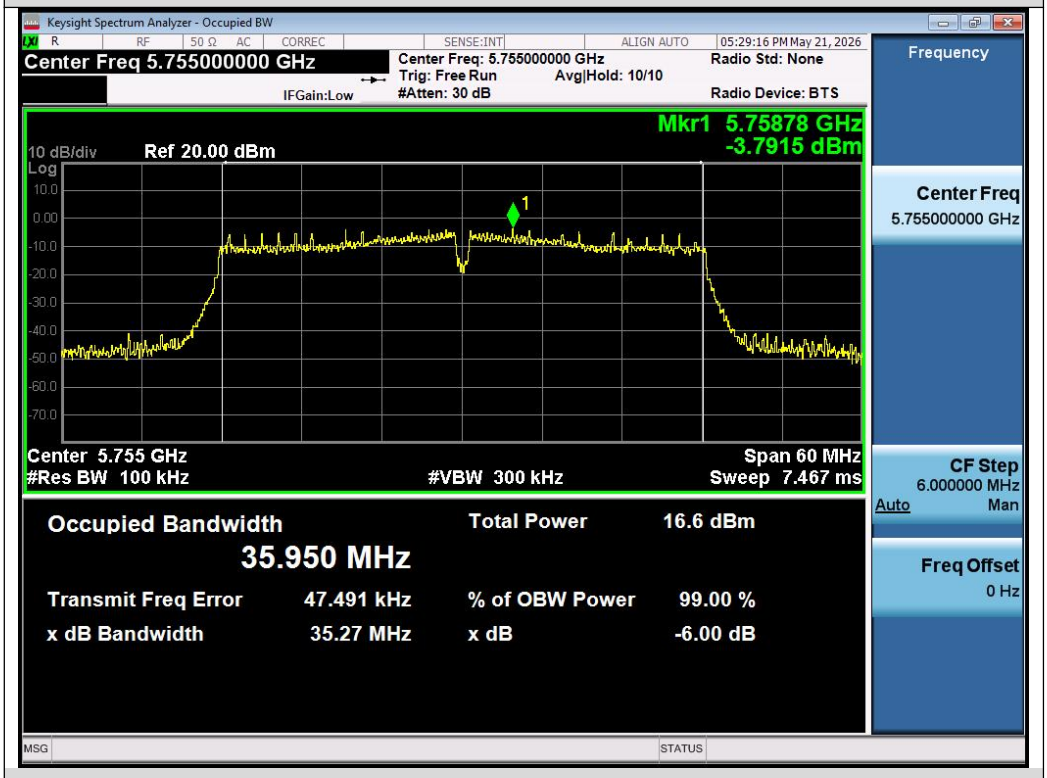
Test_Graph_802.11ac20_Chain A_5825_MCS0_DTSBW



Test_Graph_802.11ac40_Chain A_5755_MCS0_DTSBW

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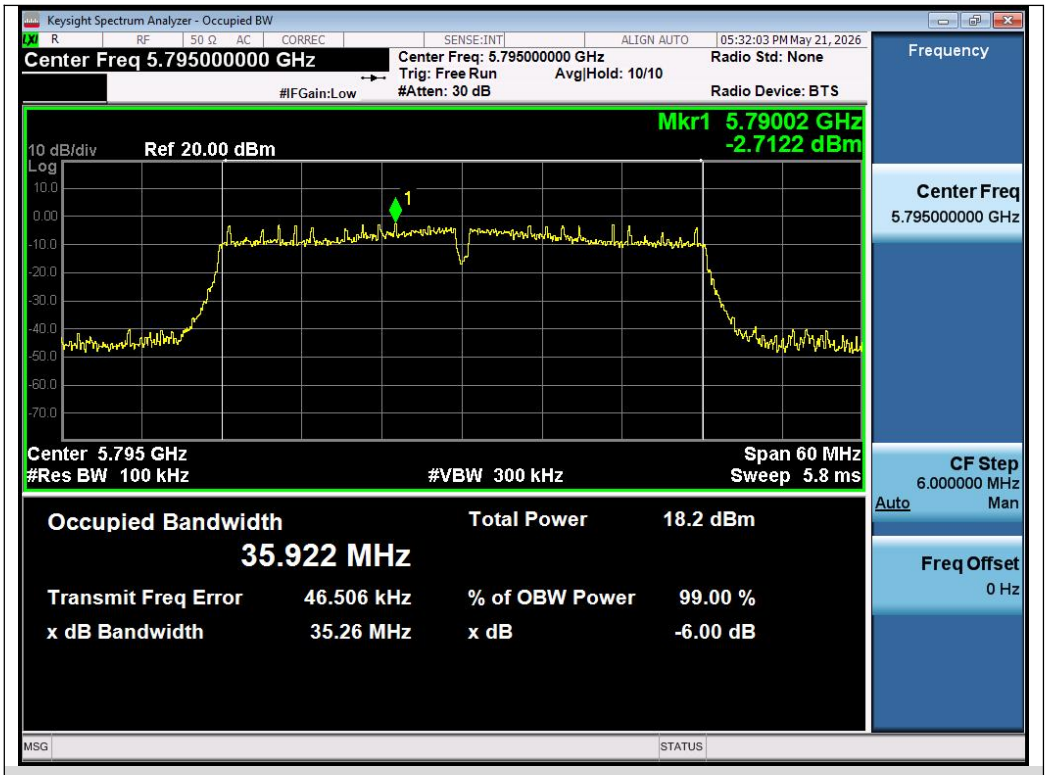
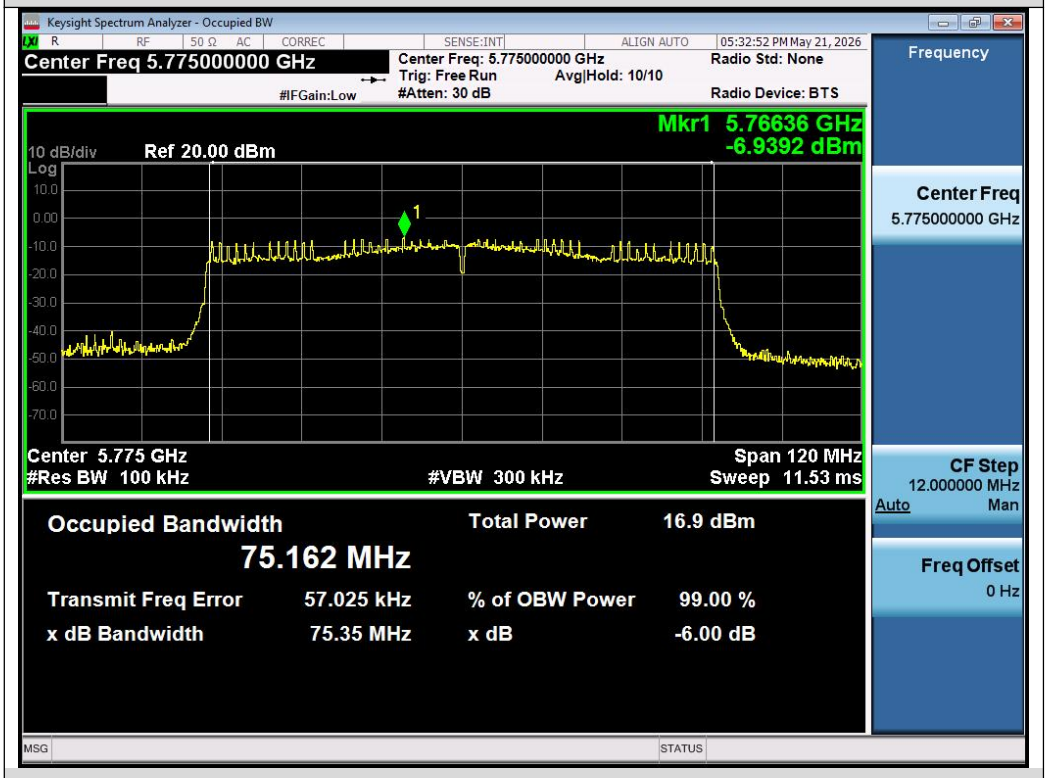


Test_Graph_802.11ac40_Chain A_5795_MCS0_DTSBW



Test_Graph_802.11ac80_Chain A_5775_MCS0_DTSBW

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9. Power Spectral Density Measurement

9.1 Provisions Applicable

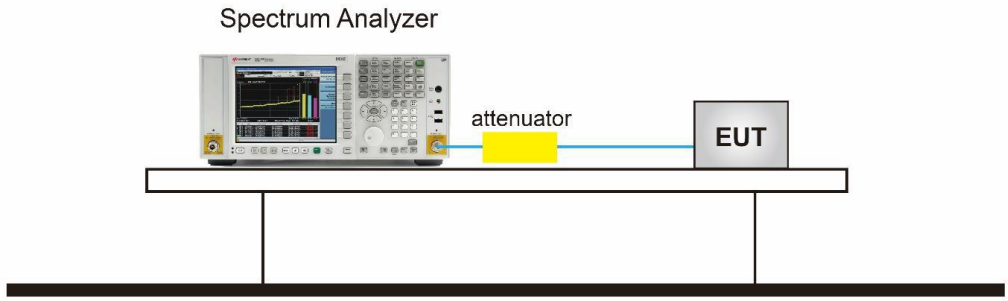
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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≥[3xRBW].
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. The final test results have been increased by the duty cycle factor and recorded in the report

9.3 Measurement Setup (Block Diagram of Configuration)



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9.4 Measurement Result

Test Data of Conducted Output Power Density for band 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	3.632	11	Pass
	5200	3.701	11	Pass
	5240	3.400	11	Pass
802.11n20	5180	2.130	11	Pass
	5200	2.043	11	Pass
	5240	1.901	11	Pass
802.11n40	5190	-1.017	11	Pass
	5230	-1.087	11	Pass
802.11ac20	5180	2.197	11	Pass
	5200	1.897	11	Pass
	5240	1.873	11	Pass
802.11ac40	5190	-1.044	11	Pass
	5230	-1.056	11	Pass
802.11ac80	5210	-5.867	11	Pass

Test Data of Conducted Output Power Density for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	3.764	11	Pass
	5300	3.673	11	Pass
	5320	3.400	11	Pass
802.11n20	5260	2.160	11	Pass
	5300	1.799	11	Pass
	5320	1.841	11	Pass
802.11n40	5270	-1.039	11	Pass
	5310	-1.205	11	Pass
802.11ac20	5260	2.240	11	Pass
	5300	1.887	11	Pass
	5320	1.598	11	Pass
802.11ac40	5270	-1.068	11	Pass
	5310	-1.189	11	Pass
802.11ac80	5290	-5.879	11	Pass

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Test Data of Conducted Output Power Density for band 5.470-5.725 GH				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	3.285	11	Pass
	5600	4.012	11	Pass
	5700	4.167	11	Pass
802.11n20	5500	1.852	11	Pass
	5600	2.340	11	Pass
	5700	2.675	11	Pass
802.11n40	5510	-1.273	11	Pass
	5590	-0.513	11	Pass
	5670	-0.579	11	Pass
802.11ac20	5500	1.664	11	Pass
	5600	2.282	11	Pass
	5700	2.544	11	Pass
802.11ac40	5510	-1.200	11	Pass
	5590	-0.696	11	Pass
	5670	-0.527	11	Pass
802.11ac80	5530	-6.263	11	Pass
	5610	-5.554	11	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/510kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	0.869	7.859	30	Pass
	5785	0.762	7.752	30	Pass
	5825	0.784	7.774	30	Pass
802.11n20	5745	-0.667	6.323	30	Pass
	5785	-0.727	6.263	30	Pass
	5825	-1.317	5.673	30	Pass
802.11n40	5755	-3.723	3.267	30	Pass
	5795	-3.958	3.032	30	Pass
802.11ac20	5745	-0.554	6.436	30	Pass
	5785	-0.495	6.495	30	Pass
	5825	-1.210	5.780	30	Pass
802.11ac40	5755	-3.561	3.429	30	Pass

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	5795	-3.920	3.070	30	Pass
802.11ac80	5775	-8.350	-1.360	30	Pass

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

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

Test_Graph_802.11a_Chain A_5180_6Mbps_PSD

Test_Graph_802.11a_Chain A_5200_6Mbps_PSD

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Test_Graph_802.11a_Chain A_5240_6Mbps_PSD

Test_Graph_802.11n20_Chain A_5180_MCS0_PSD

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Test_Graph_802.11n20_Chain A_5200_MCS0_PSD

Test_Graph_802.11n20_Chain A_5240_MCS0_PSD

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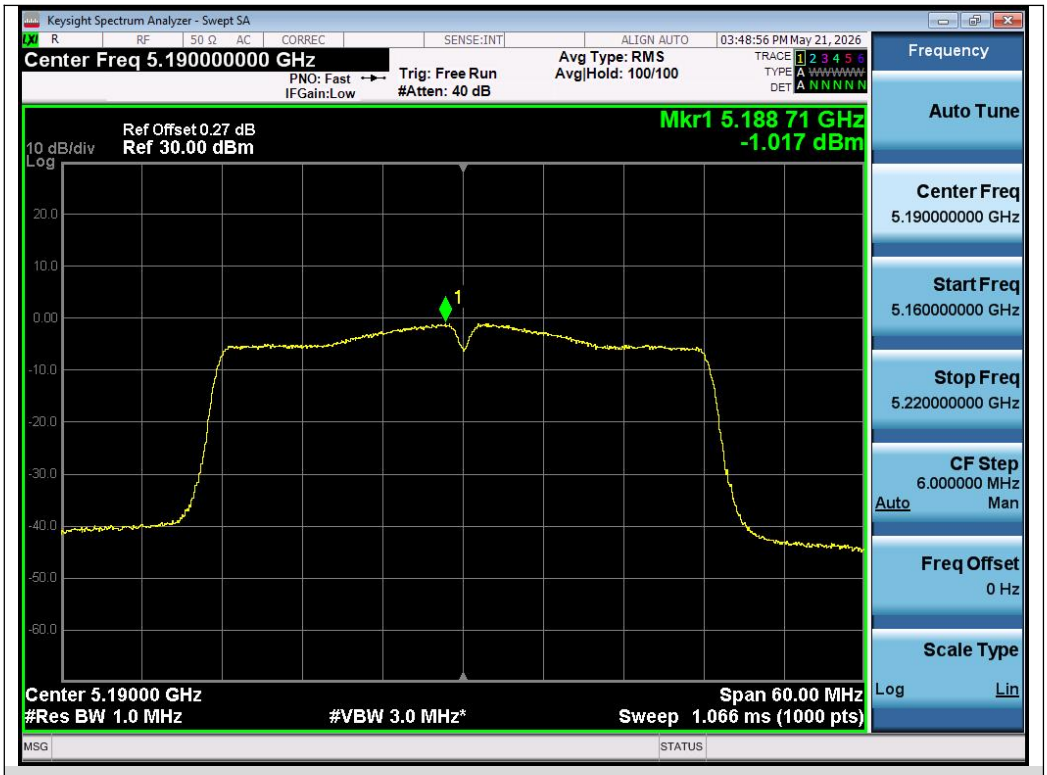

Test_Graph_802.11n40_Chain A_5190_MCS0_PSD

Test_Graph_802.11n40_Chain A_5230_MCS0_PSD

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Test_Graph_802.11ac20_Chain A_5180_MCS0_PSD

Test_Graph_802.11ac20_Chain A_5200_MCS0_PSD

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Test_Graph_802.11ac20_Chain A_5240_MCS0_PSD

Test_Graph_802.11ac40_Chain A_5190_MCS0_PSD

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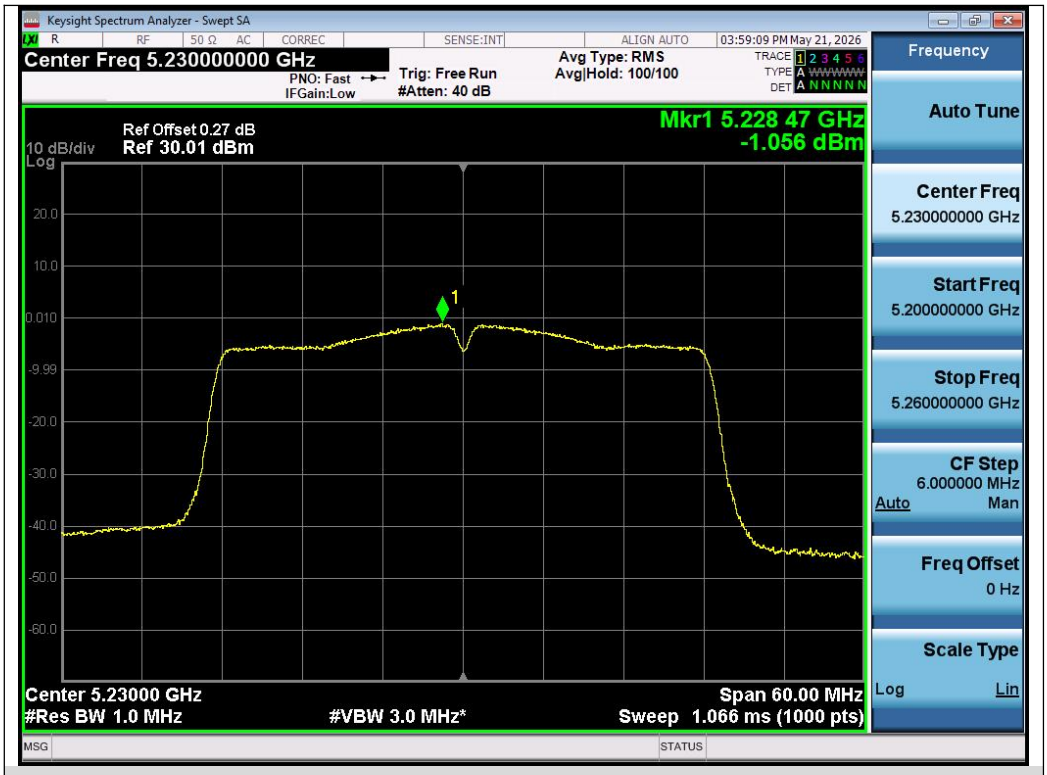

Test_Graph_802.11ac40_Chain A_5230_MCS0_PSD

Test_Graph_802.11ac80_Chain A_5210_MCS0_PSD

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