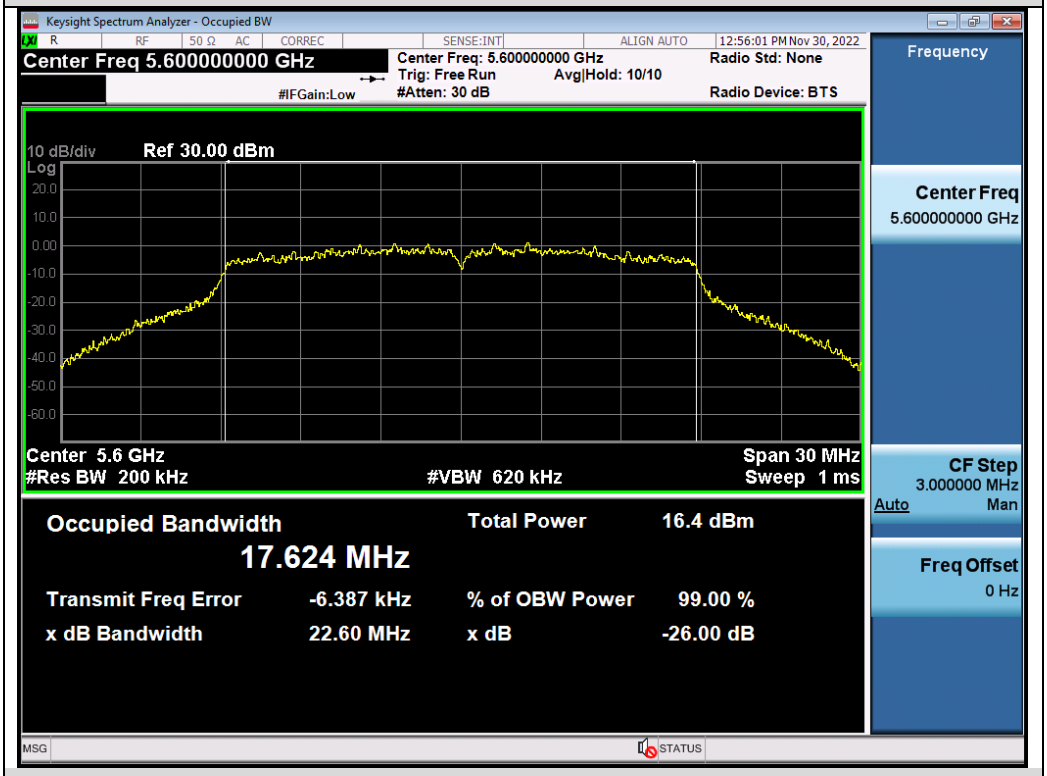
Test_Graph_802.11n20_ANT2_5500_MCS0_OBW



Test_Graph_802.11n20_ANT2_5600_MCS0_OBW

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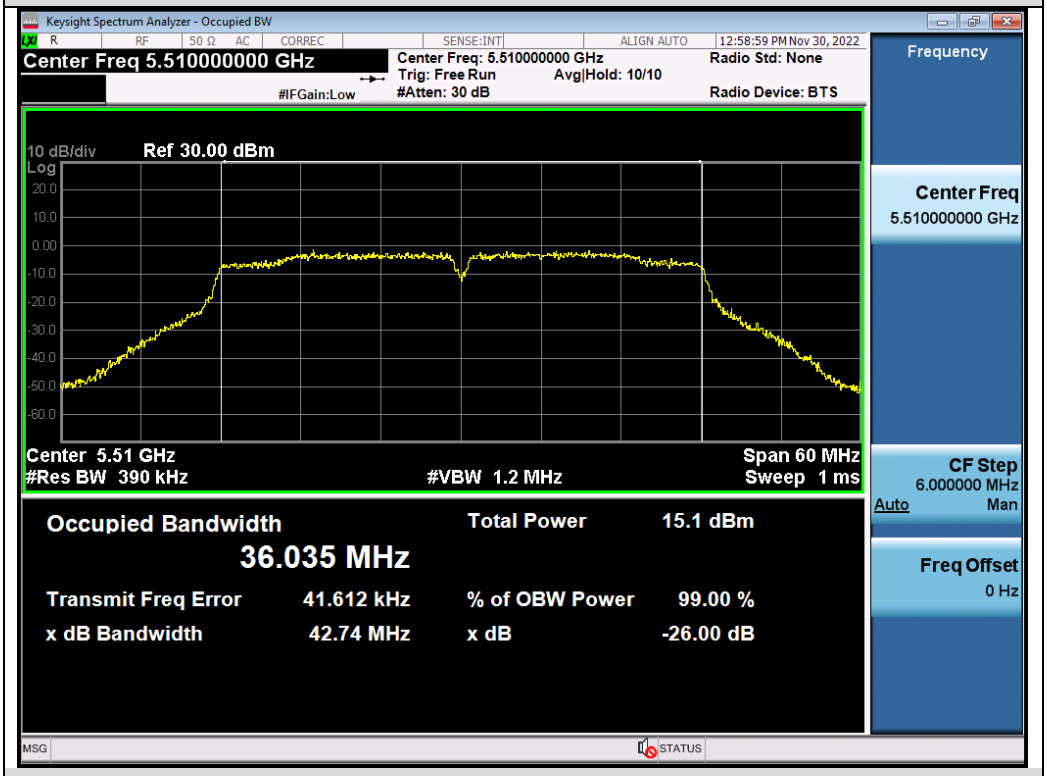
Test_Graph_802.11n20_ANT2_5700_MCS0_OBW



Test_Graph_802.11n40_ANT2_5510_MCS0_OBW

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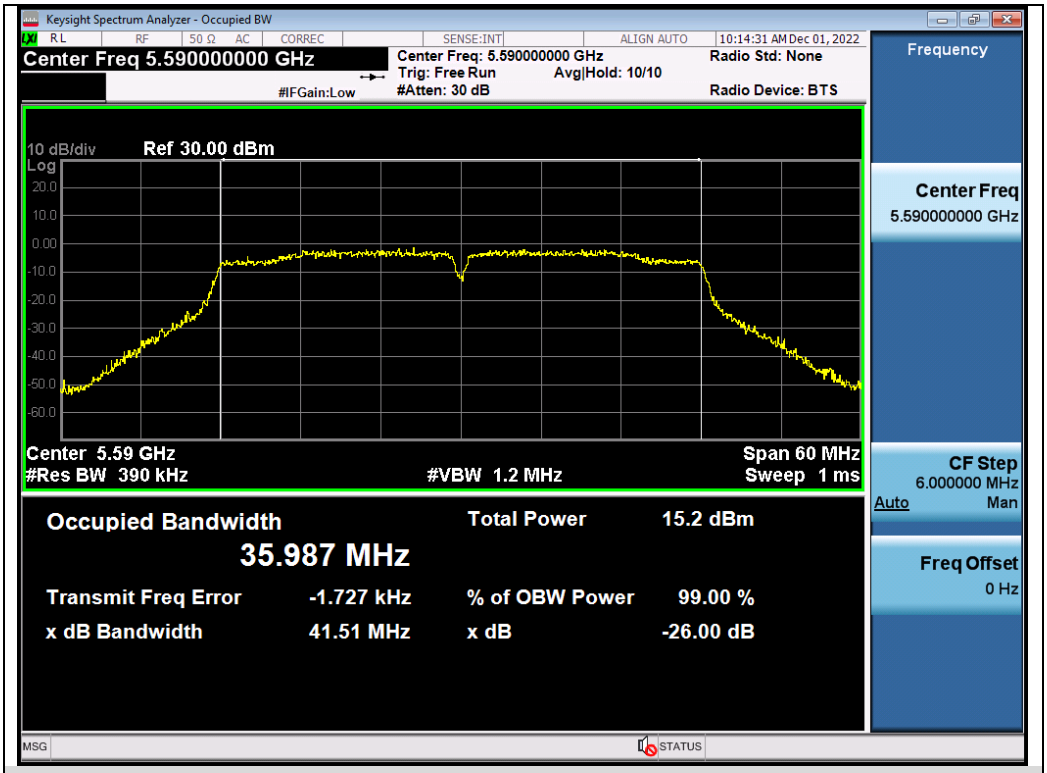
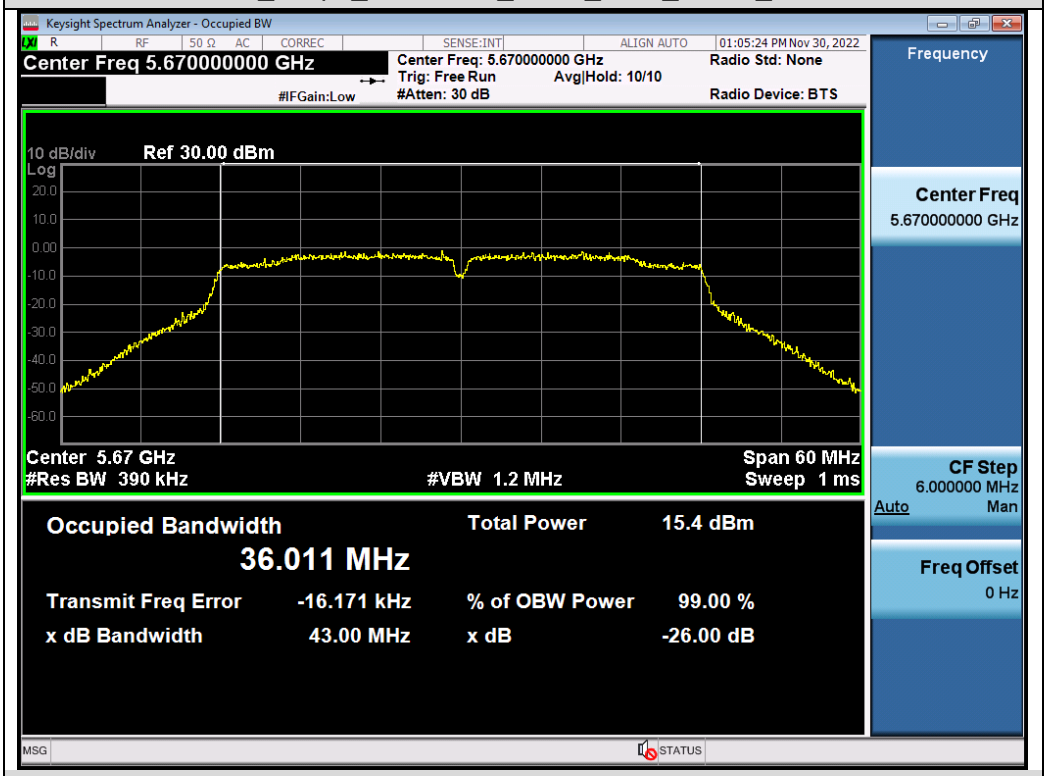


Test_Graph_802.11n40_ANT2_5590_MCS0_OBW



Test_Graph_802.11n40_ANT2_5670_MCS0_OBW

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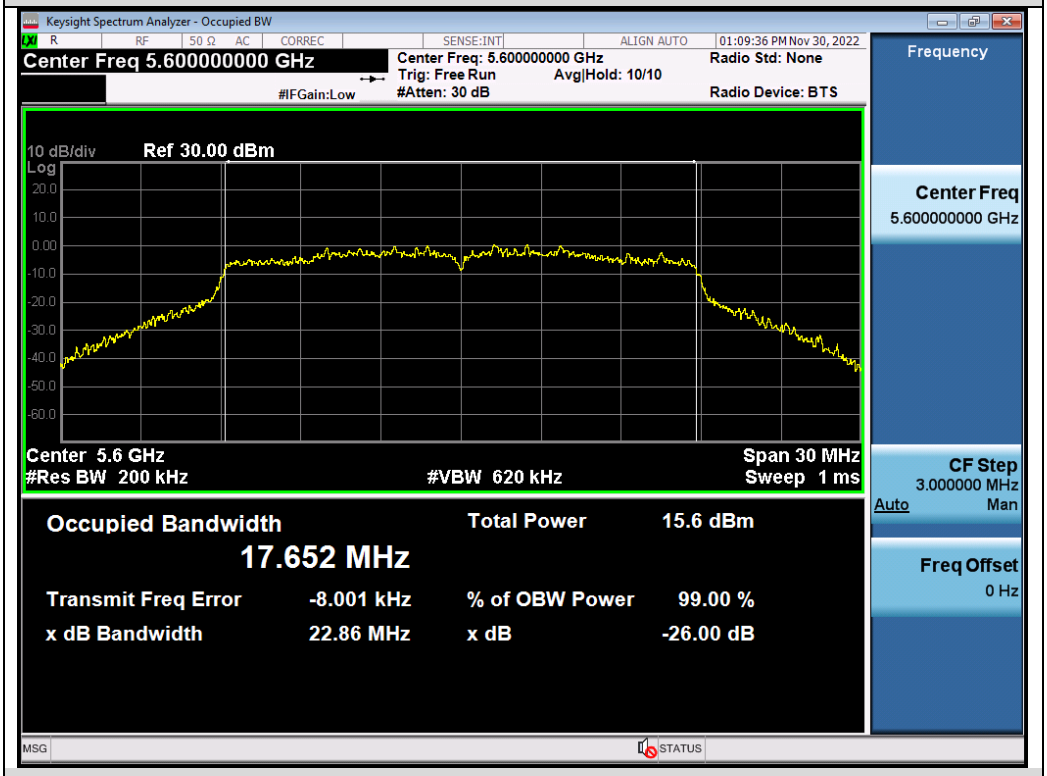
Test_Graph_802.11ac20_ANT2_5500_MCS0_OBW



Test_Graph_802.11ac20_ANT2_5600_MCS0_OBW

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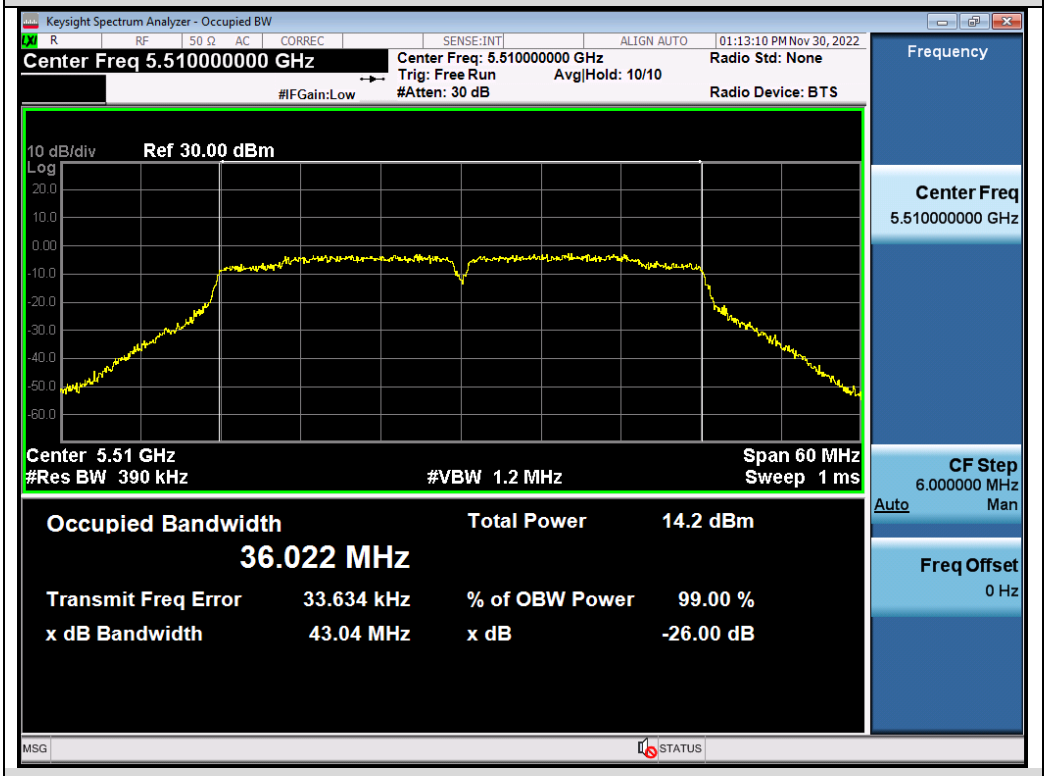
Test_Graph_802.11ac20_ANT2_5700_MCS9_OBW



Test_Graph_802.11ac40_ANT2_5510_MCS9_OBW

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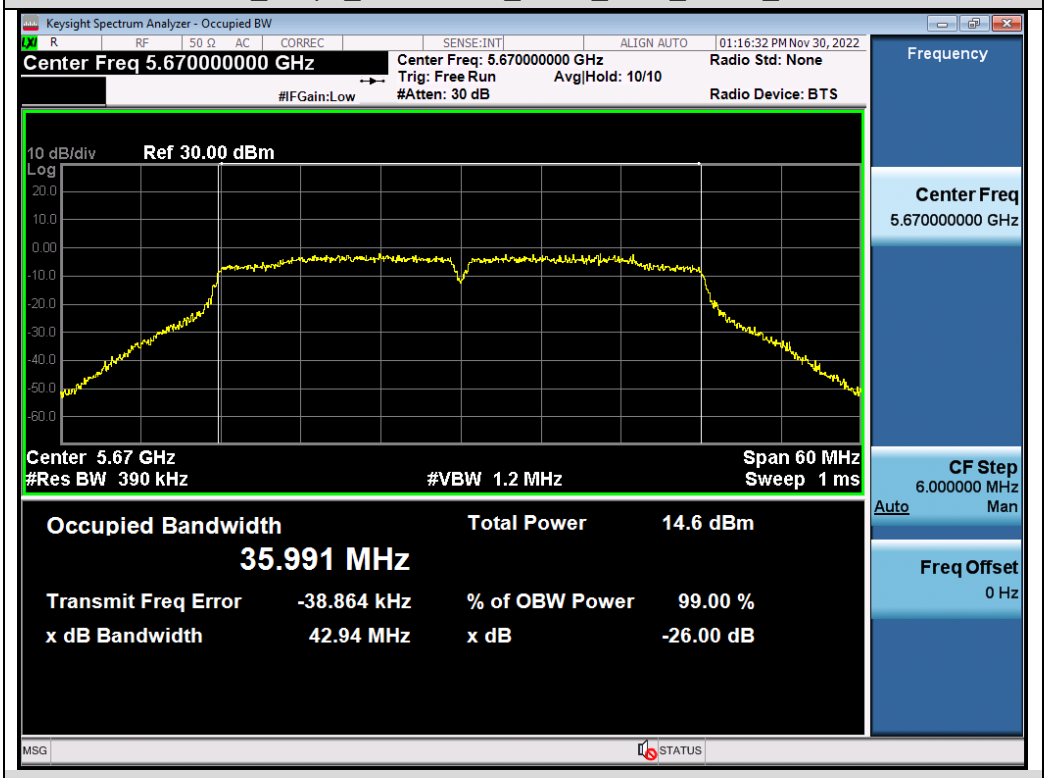
Test_Graph_802.11ac40_ANT2_5590_MCS9_OBW



Test_Graph_802.11ac40_ANT2_5670_MCS9_OBW

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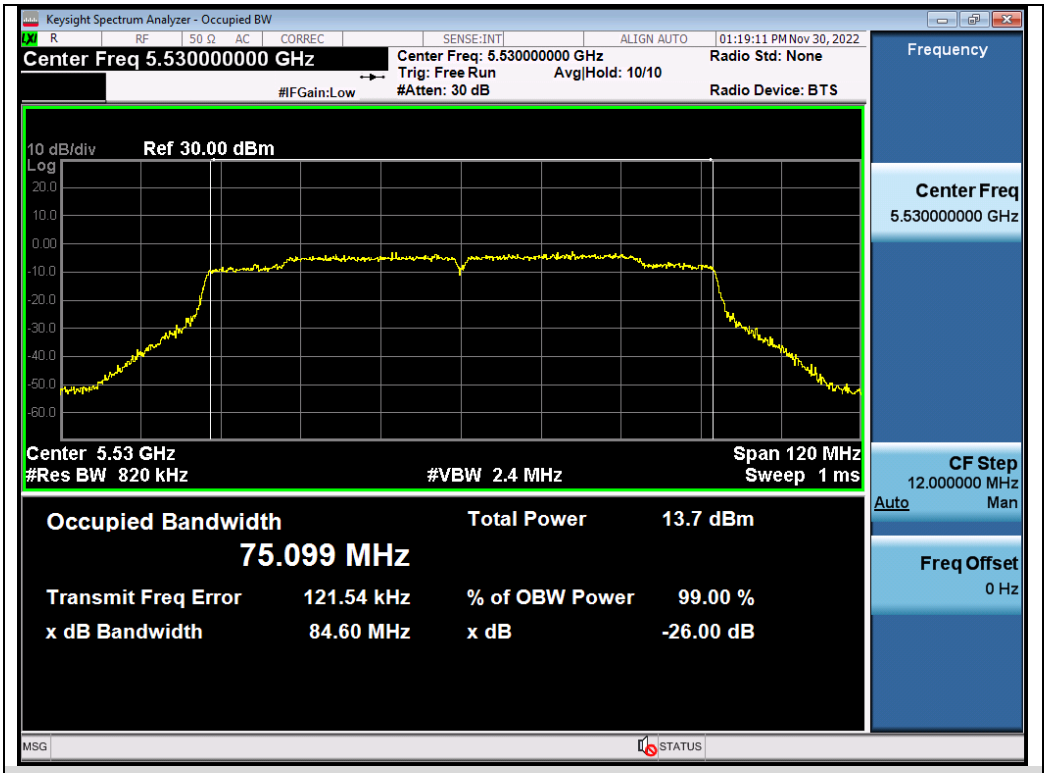
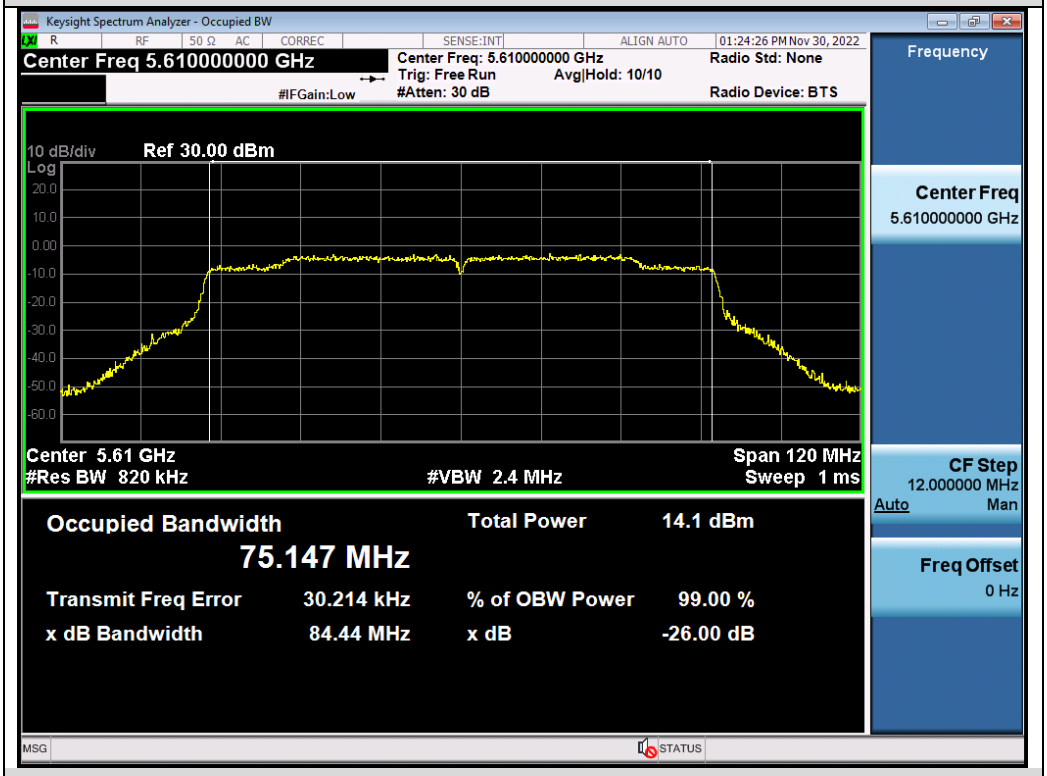


Test_Graph_802.11ac80_ANT2_5530_MCS9_OBW



Test_Graph_802.11ac80_ANT2_5610_MCS9_OBW

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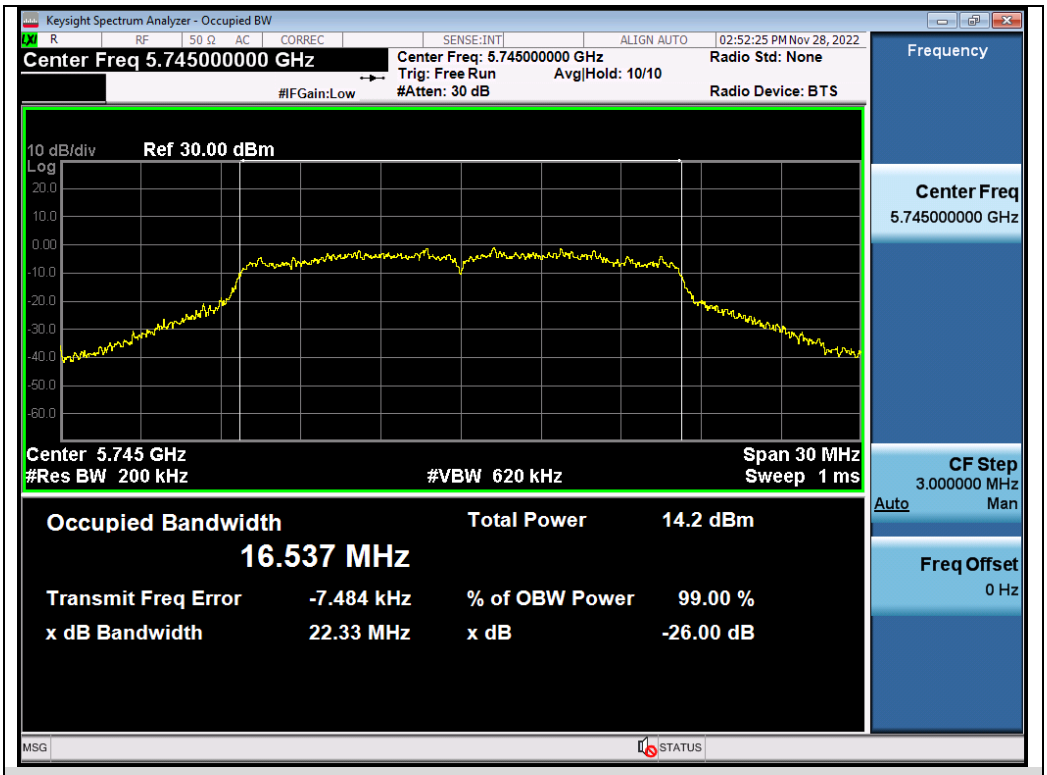
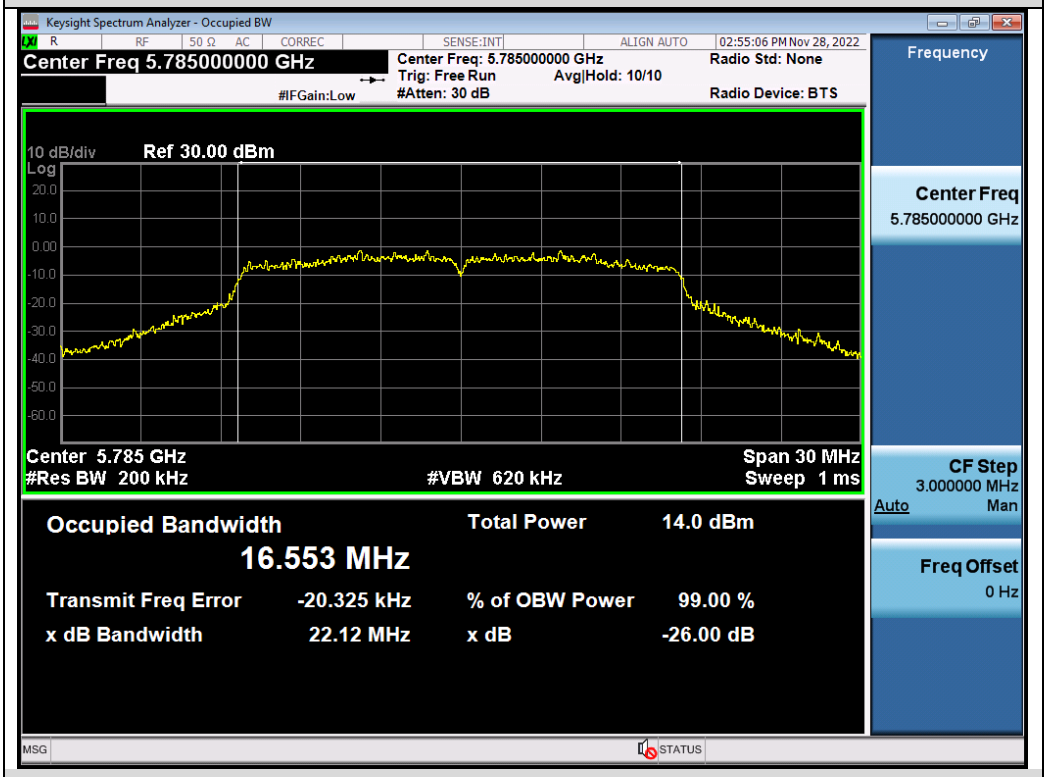
Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



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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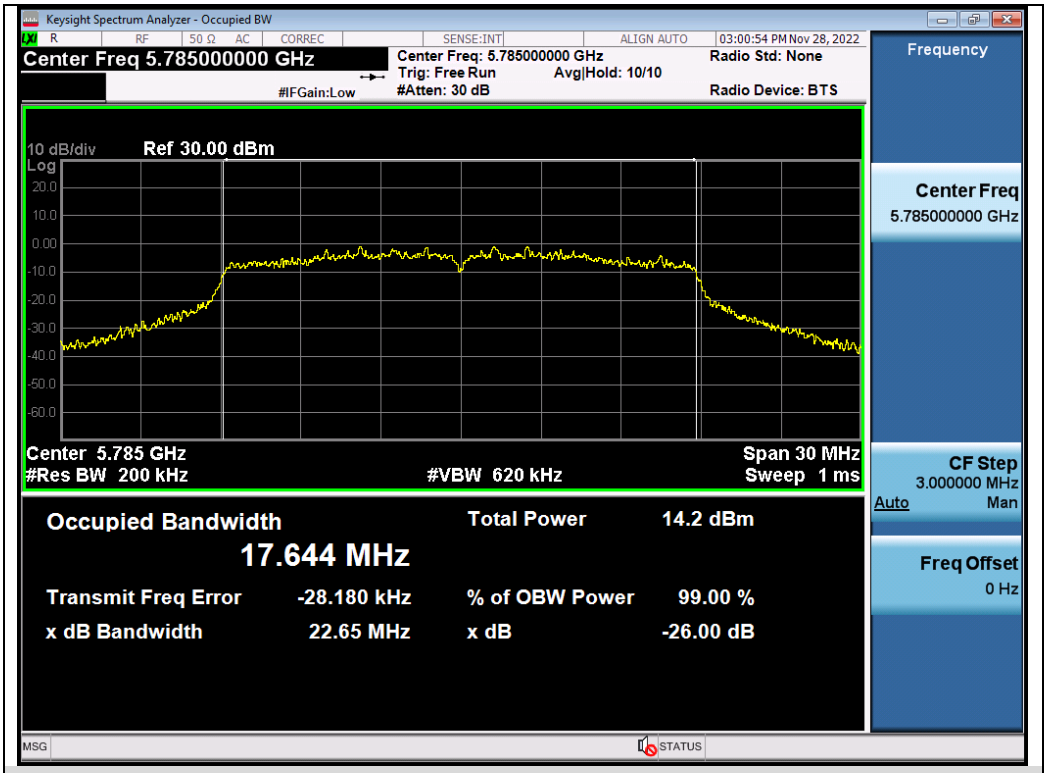
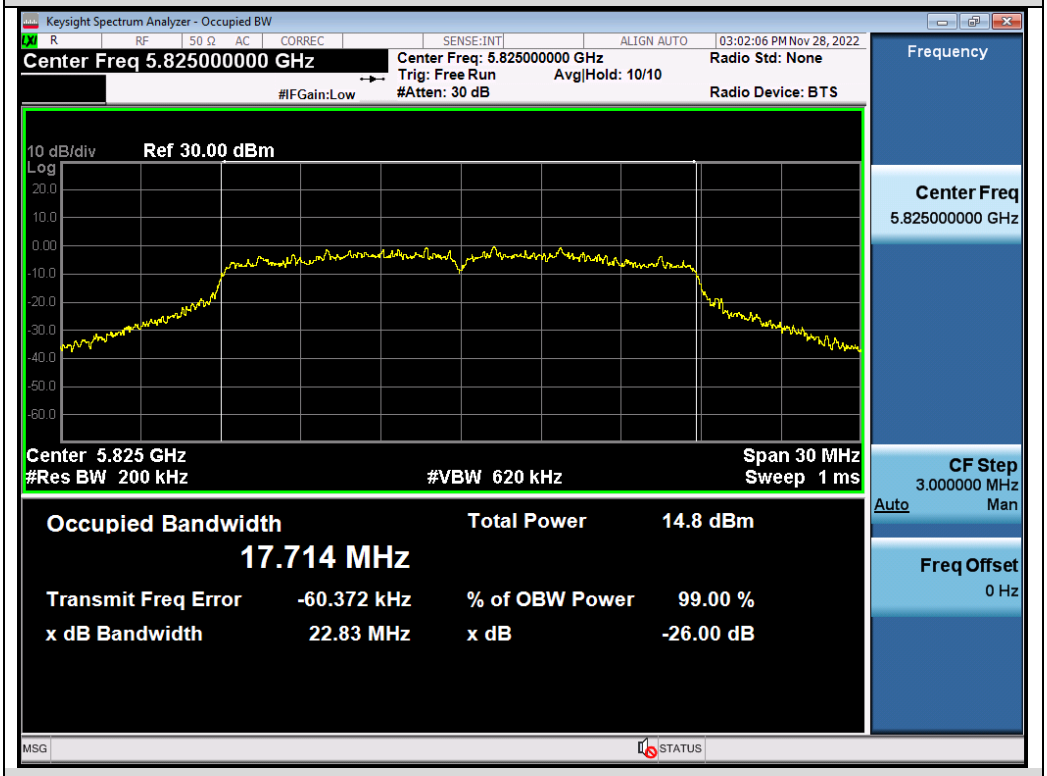


Test_Graph_802.11n20_ANT1_5785_MCS0_OBW



Test_Graph_802.11n20_ANT1_5825_MCS0_OBW

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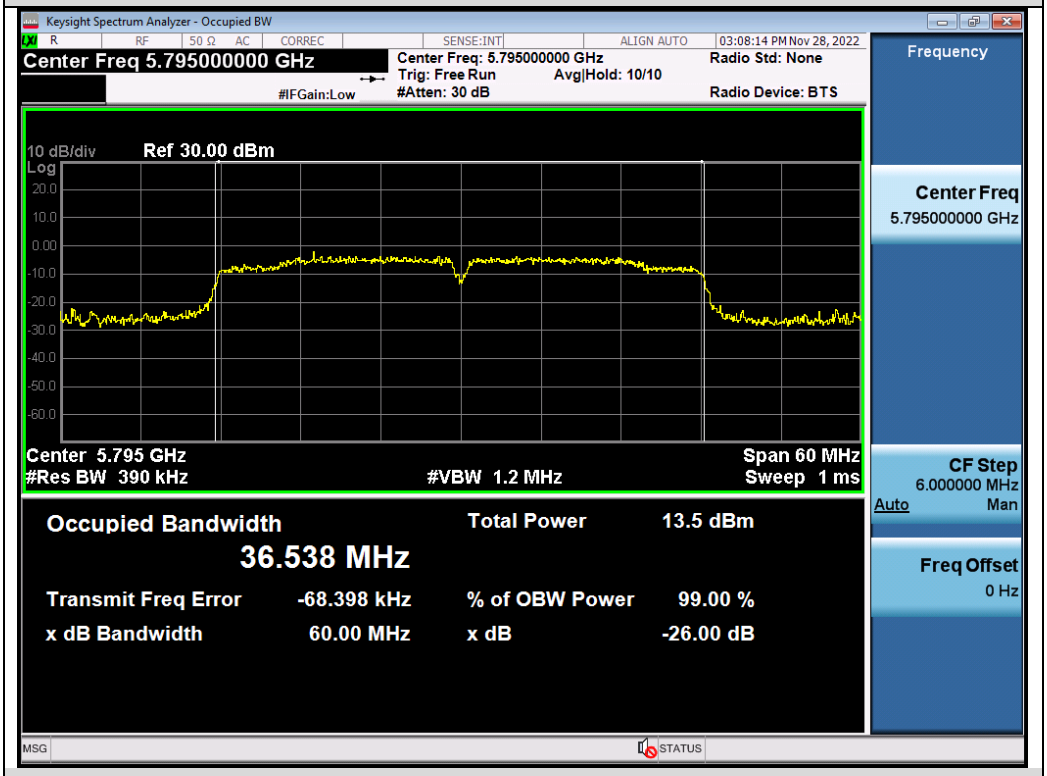
Test_Graph_802.11n40_ANT1_5755_MCS0_OBW



Test_Graph_802.11n40_ANT1_5795_MCS0_OBW

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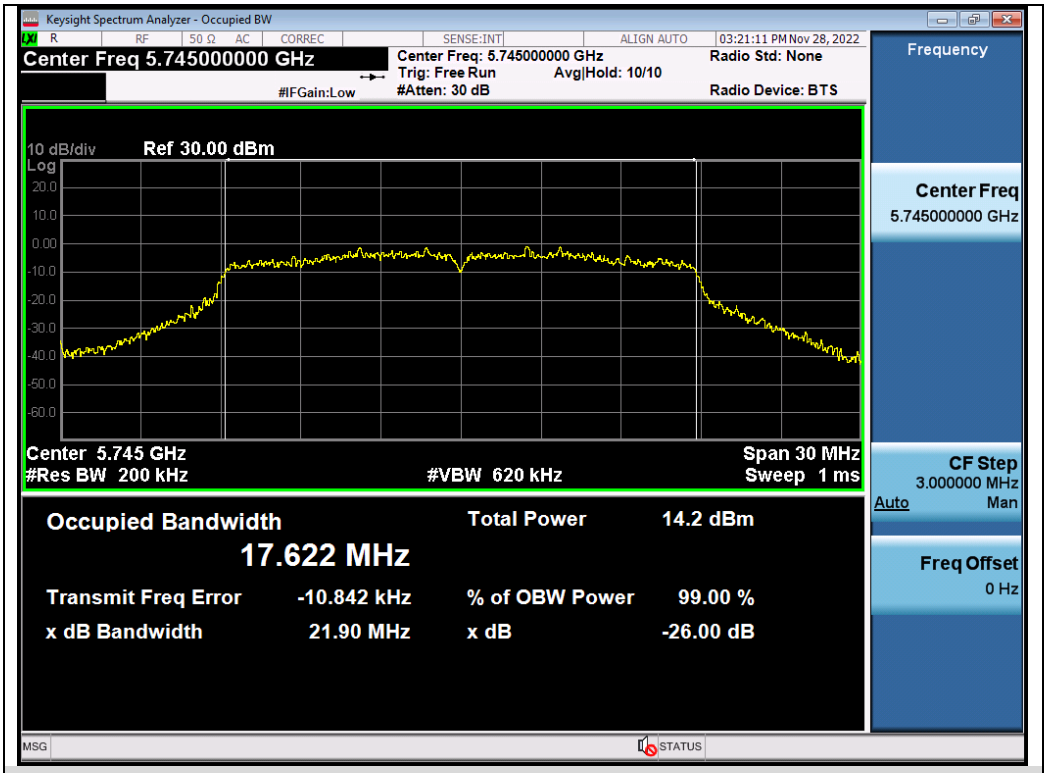
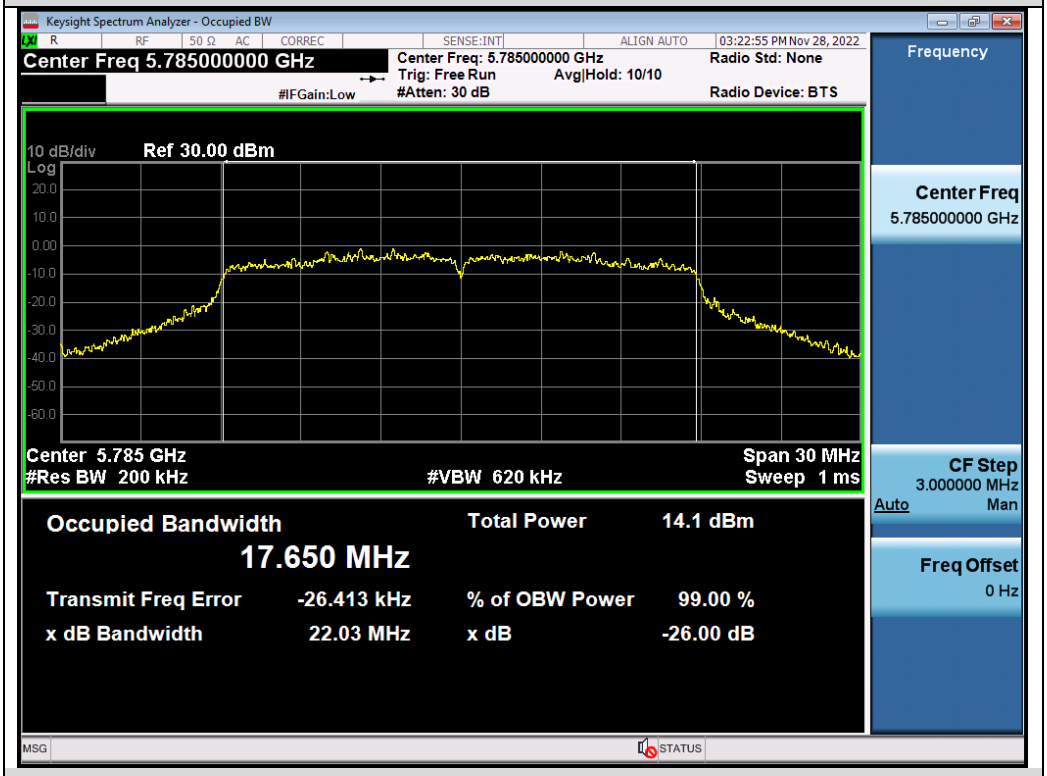


Test_Graph_802.11ac20_ANT1_5745_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW

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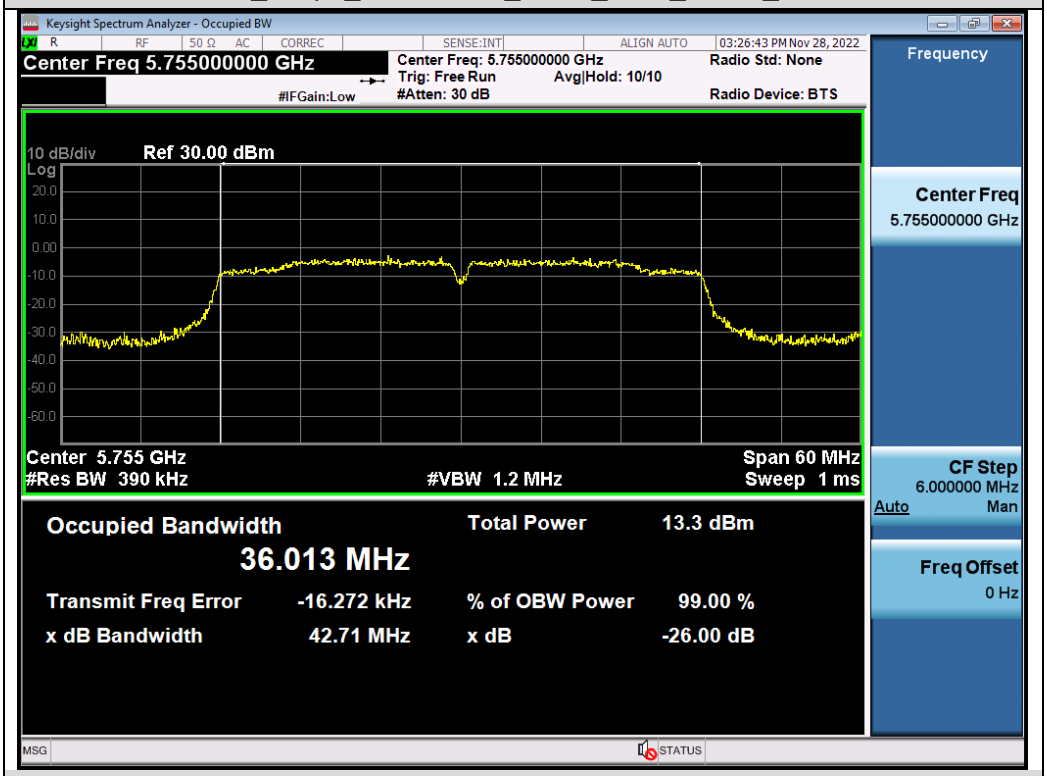
Test_Graph_802.11ac20_ANT1_5825_MCS9_OBW



Test_Graph_802.11ac40_ANT1_5755_MCS9_OBW

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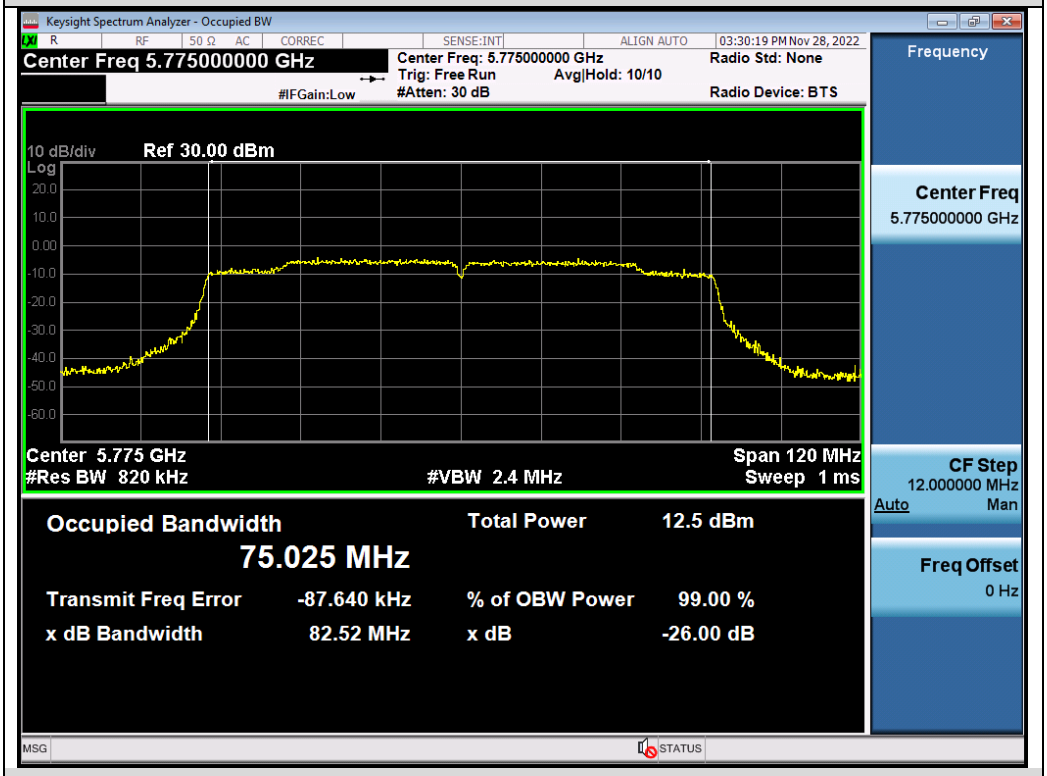
Test_Graph_802.11ac40_ANT1_5795_MCS9_OBW



Test_Graph_802.11ac80_ANT1_5775_MCS9_OBW

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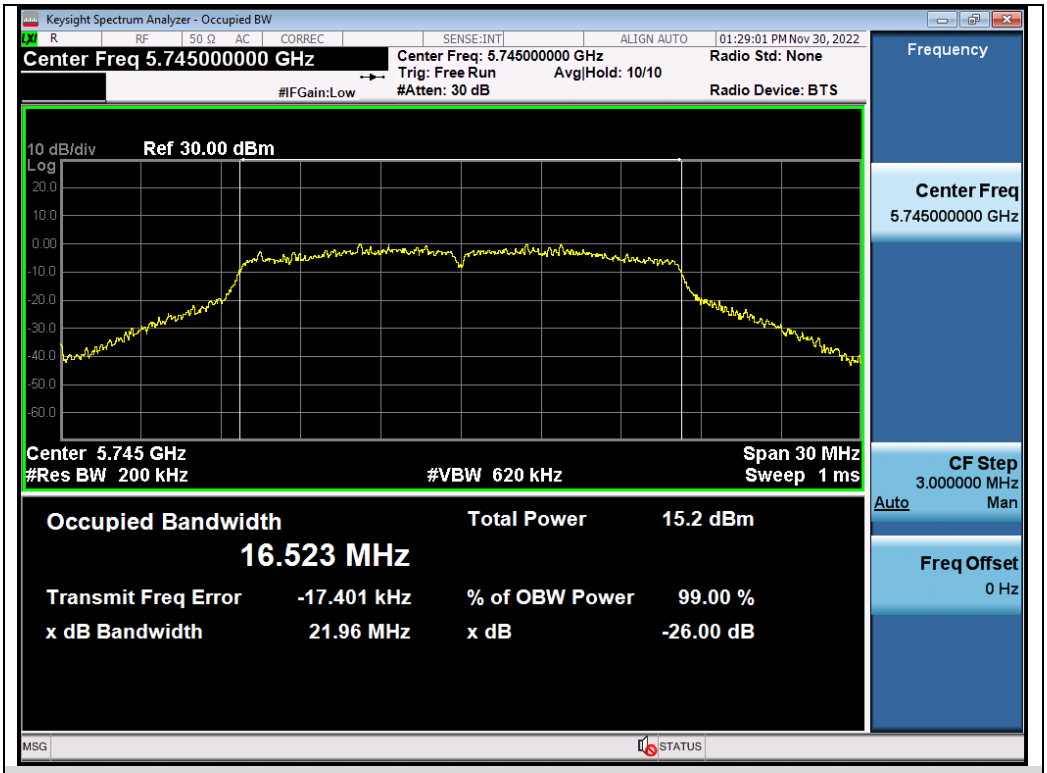
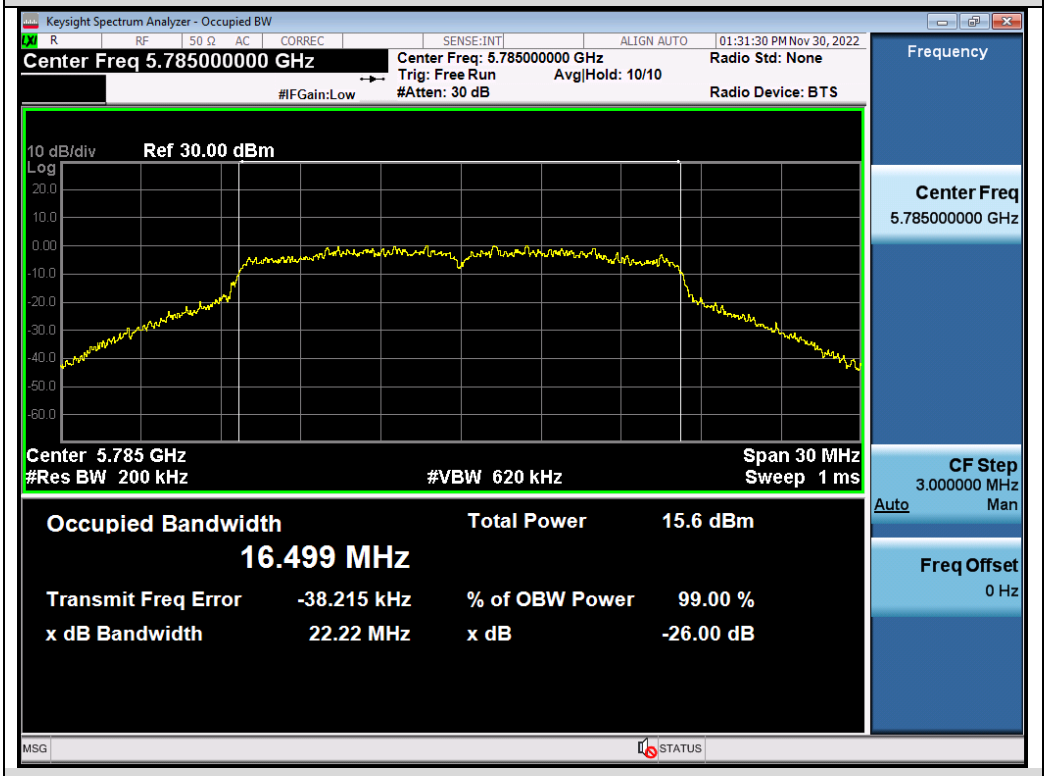


Test_Graph_802.11a_ANT2_5745_6Mbps_OBW



Test_Graph_802.11a_ANT2_5785_6Mbps_OBW

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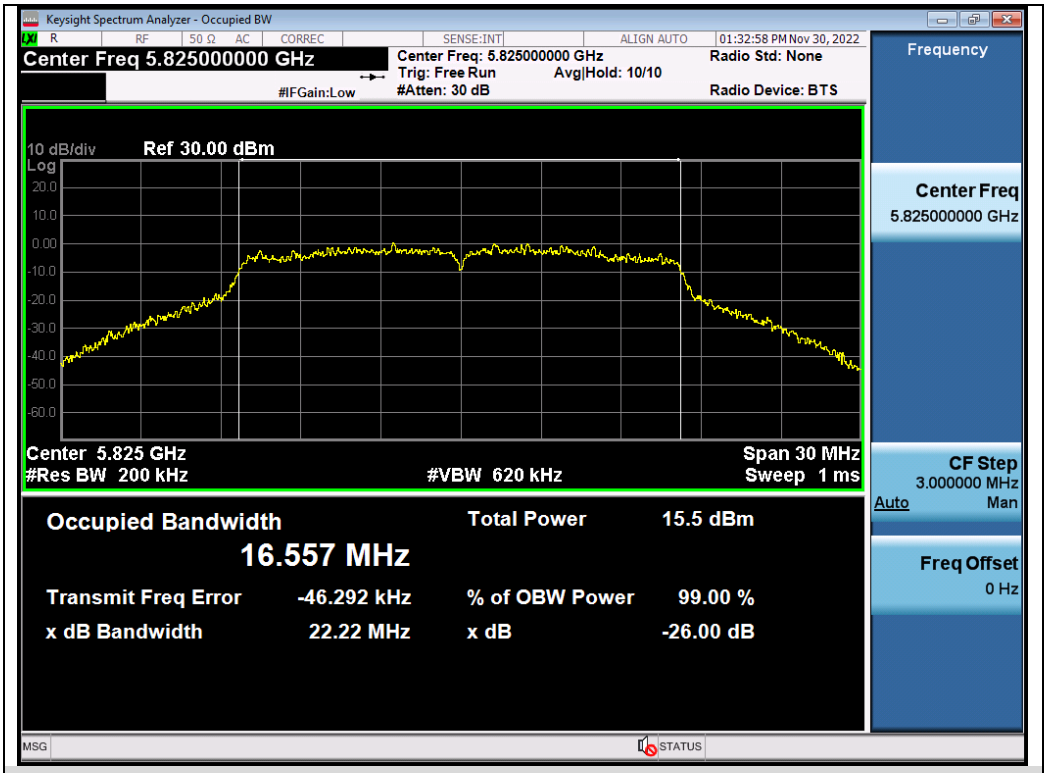
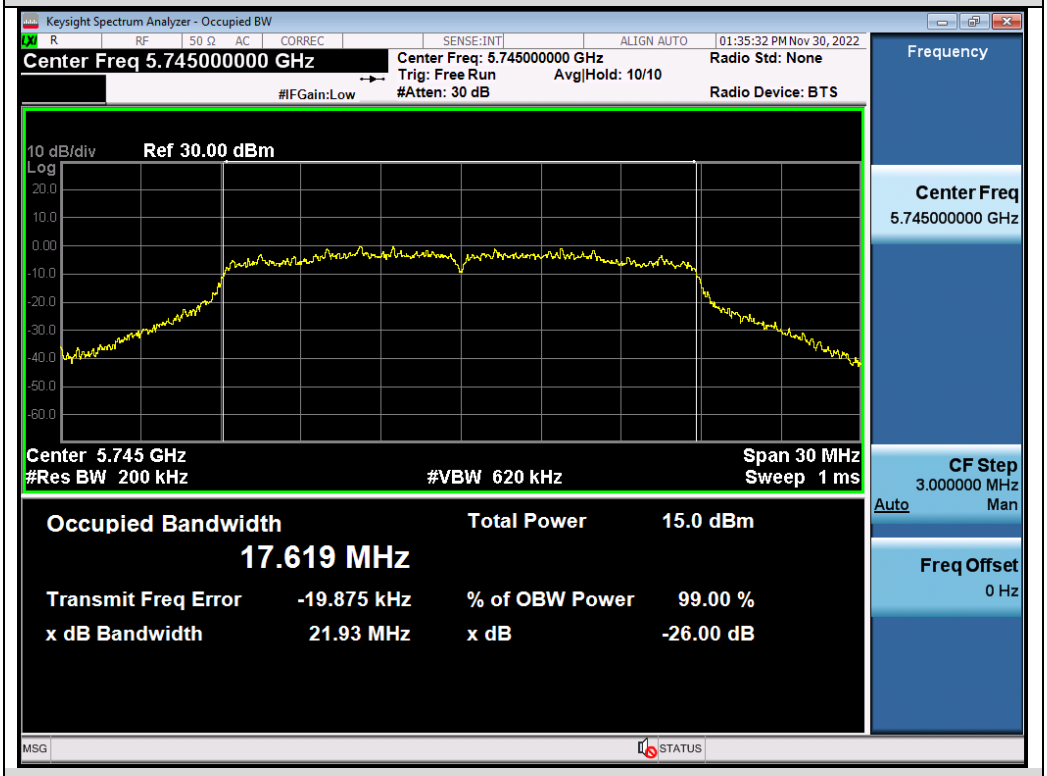


Test_Graph_802.11a_ANT2_5825_6Mbps_OBW



Test_Graph_802.11n20_ANT2_5745_MCS0_OBW

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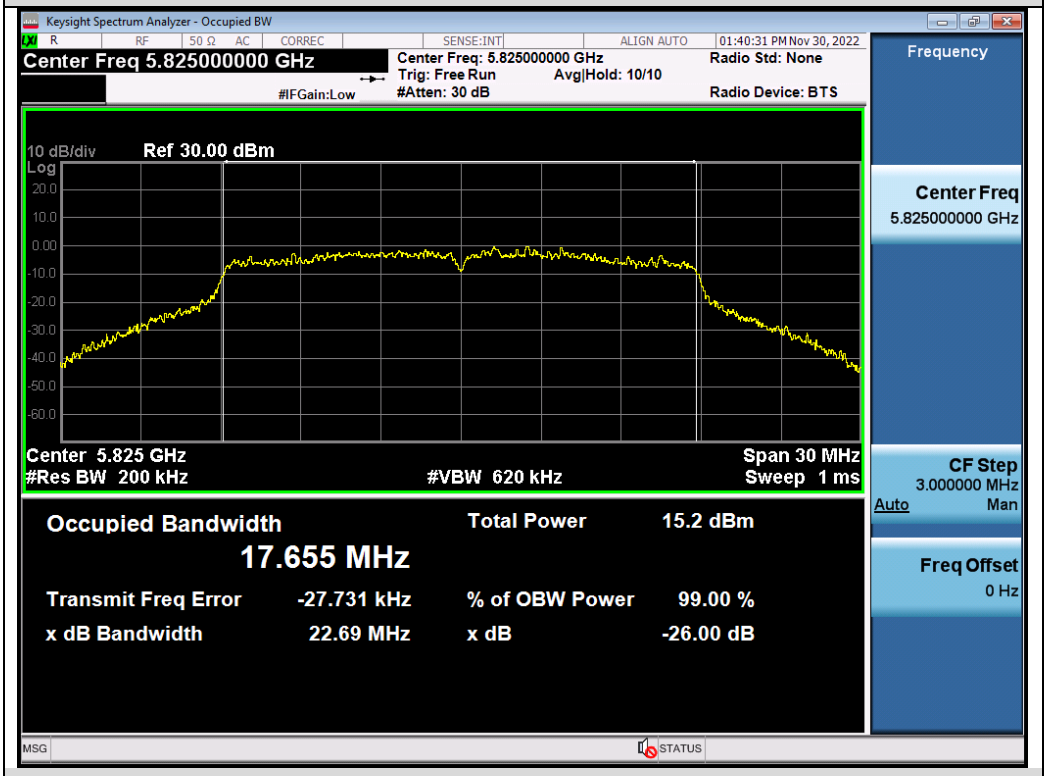
Test_Graph_802.11n20_ANT2_5785_MCS0_OBW



Test_Graph_802.11n20_ANT2_5825_MCS0_OBW

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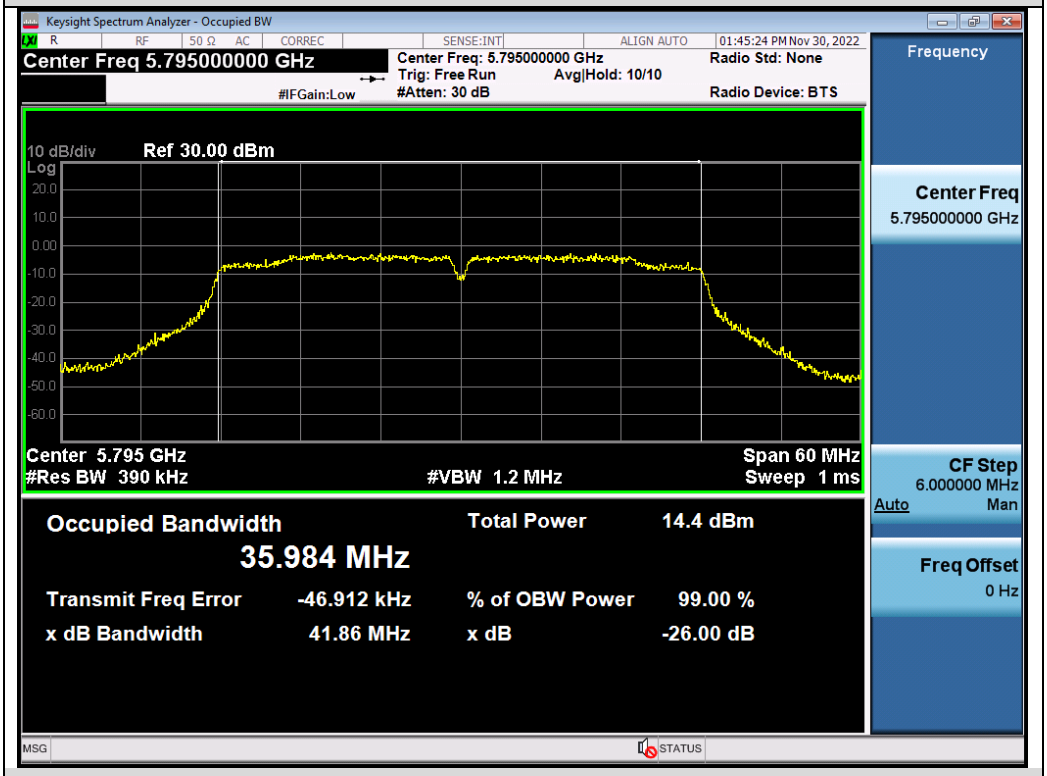
Test_Graph_802.11n40_ANT2_5755_MCS0_OBW



Test_Graph_802.11n40_ANT2_5795_MCS0_OBW

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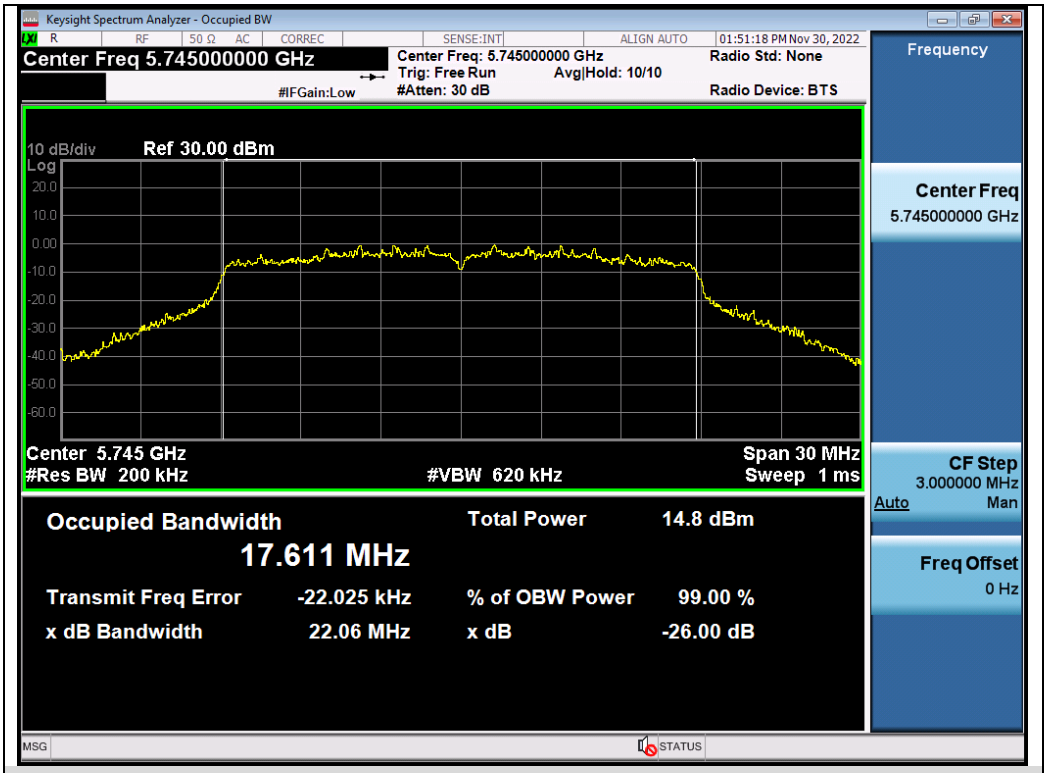
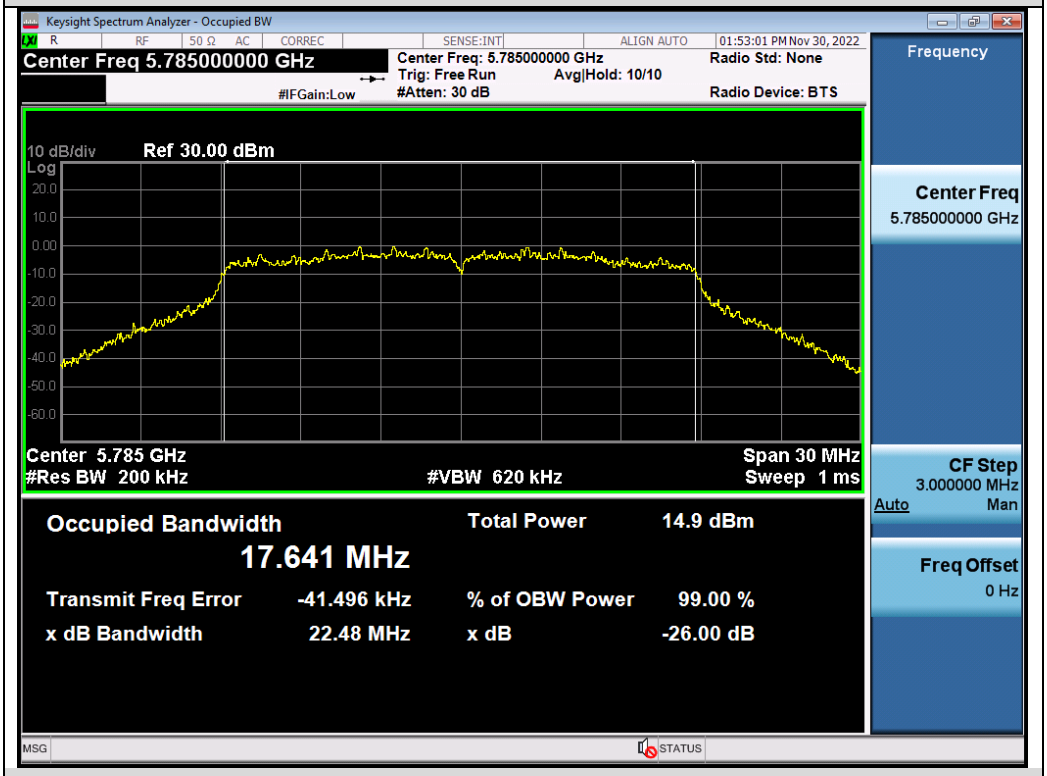


Test_Graph_802.11ac20_ANT2_5745_MCS0_OBW



Test_Graph_802.11ac20_ANT2_5785_MCS0_OBW

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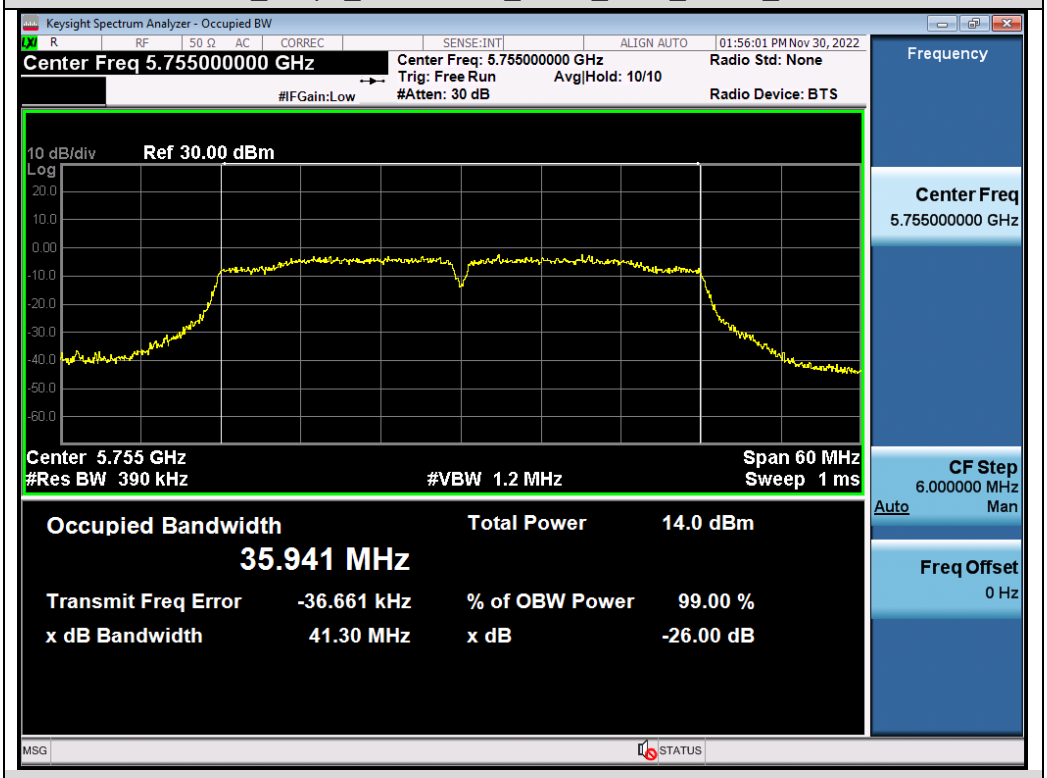
Test_Graph_802.11ac20_ANT2_5825_MCS9_OBW



Test_Graph_802.11ac40_ANT2_5755_MCS9_OBW

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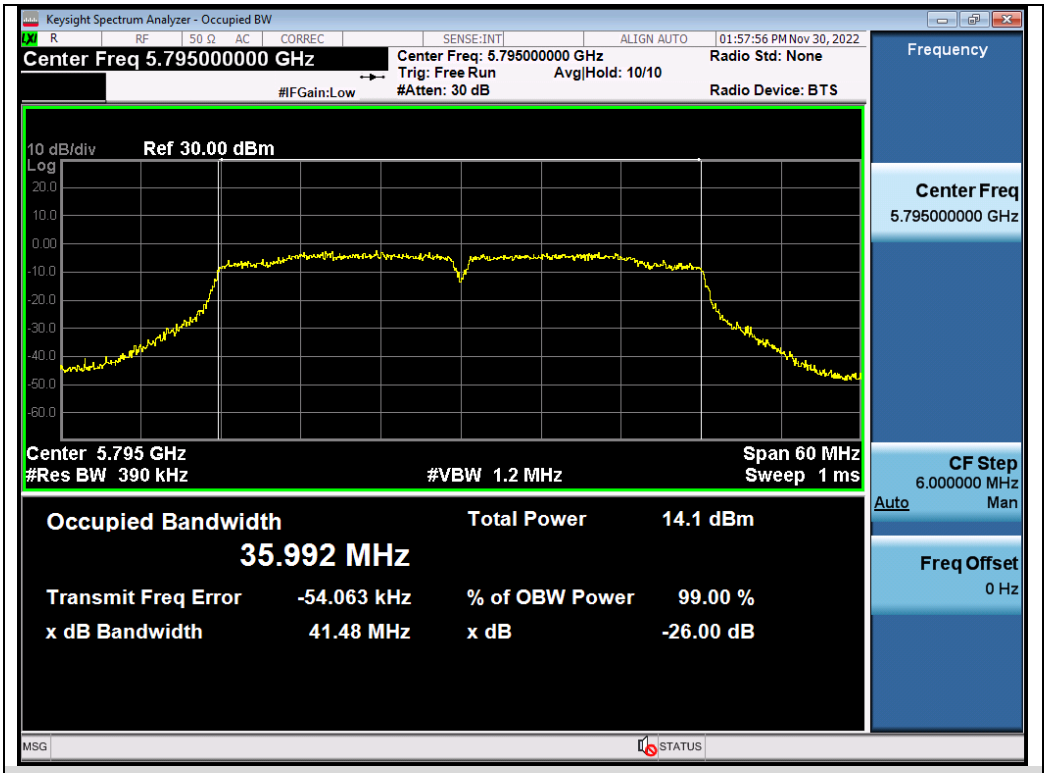
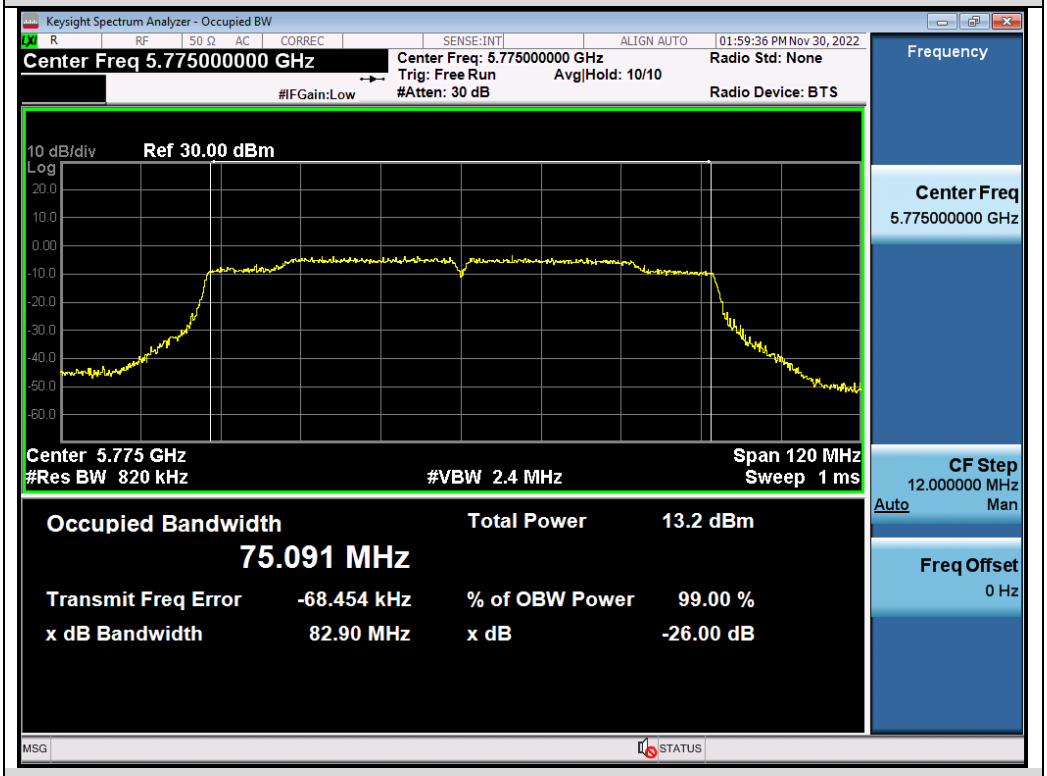


Test_Graph_802.11ac40_ANT2_5795_MCS9_OBW



Test_Graph_802.11ac80_ANT2_5775_MCS9_OBW

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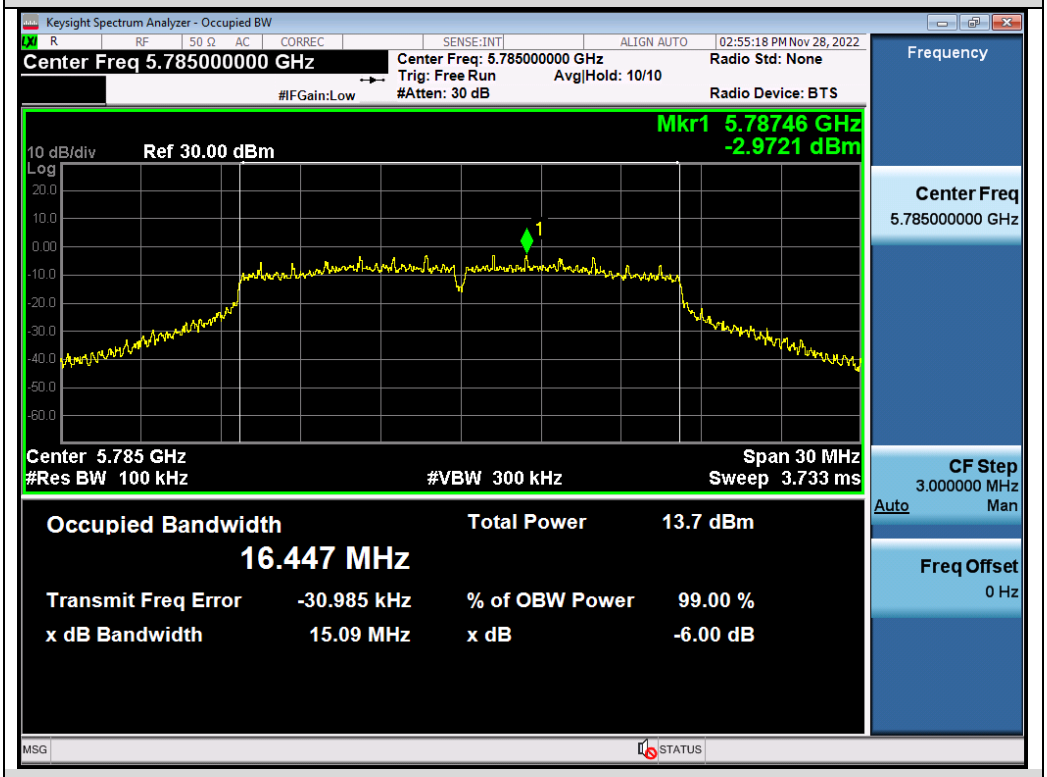
Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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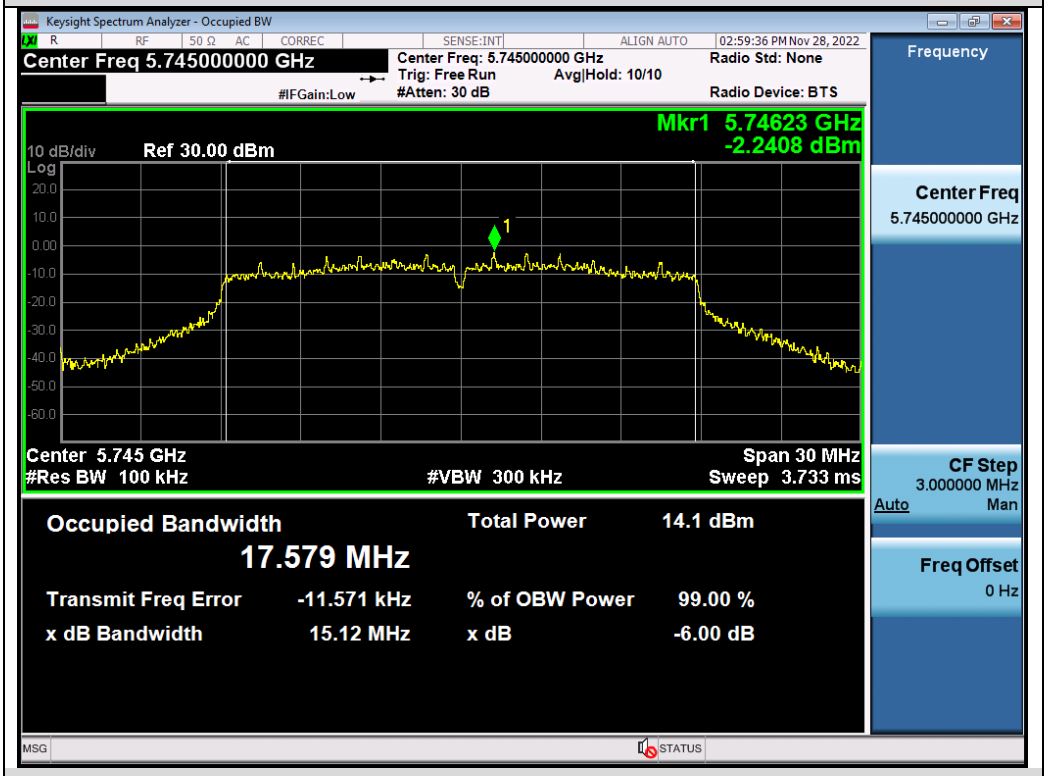
Test_Graph_802.11a_ANT1_5825_6Mbps_DTSBW



Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW

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Test_Graph_802.11n20_ANT1_5785_MCS0_DTSBW

Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW

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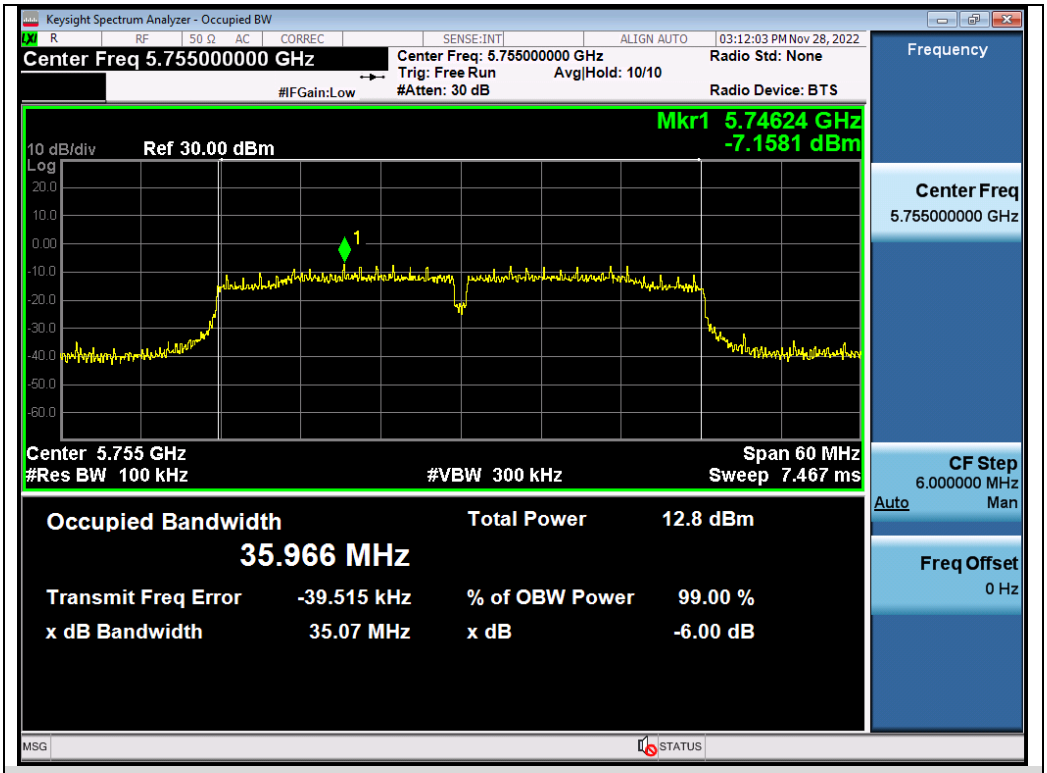

Test_Graph_802.11n40_ANT1_5755_MCS0_DTSBW

Test_Graph_802.11n40_ANT1_5795_MCS0_DTSBW

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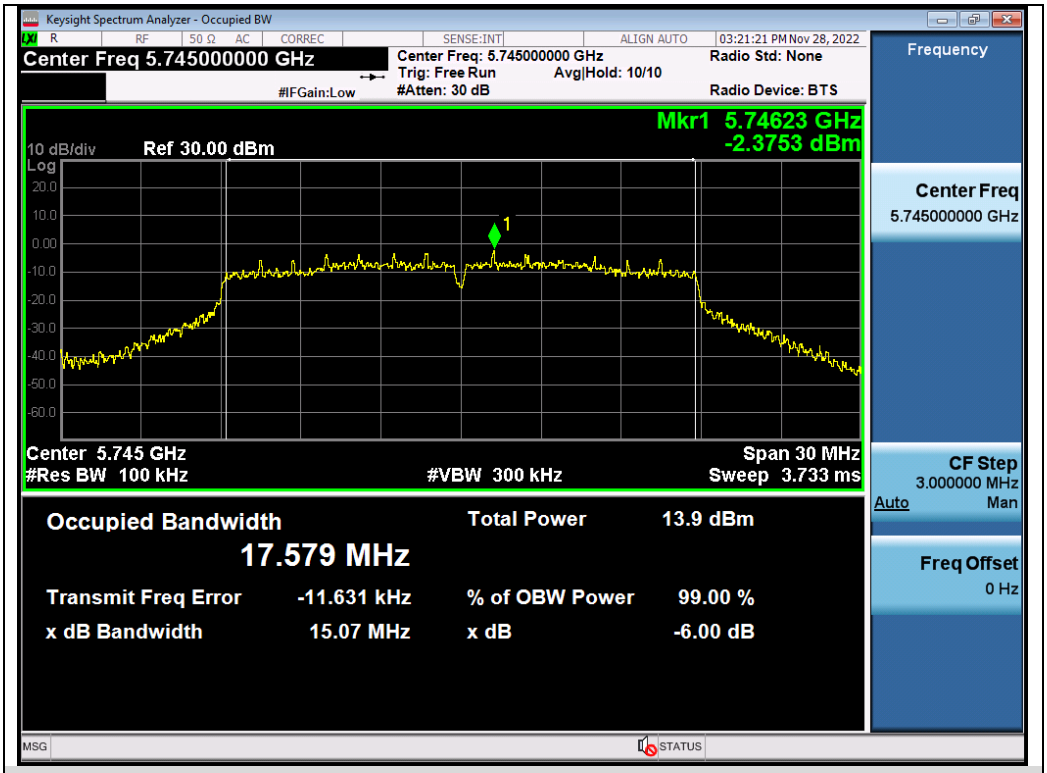
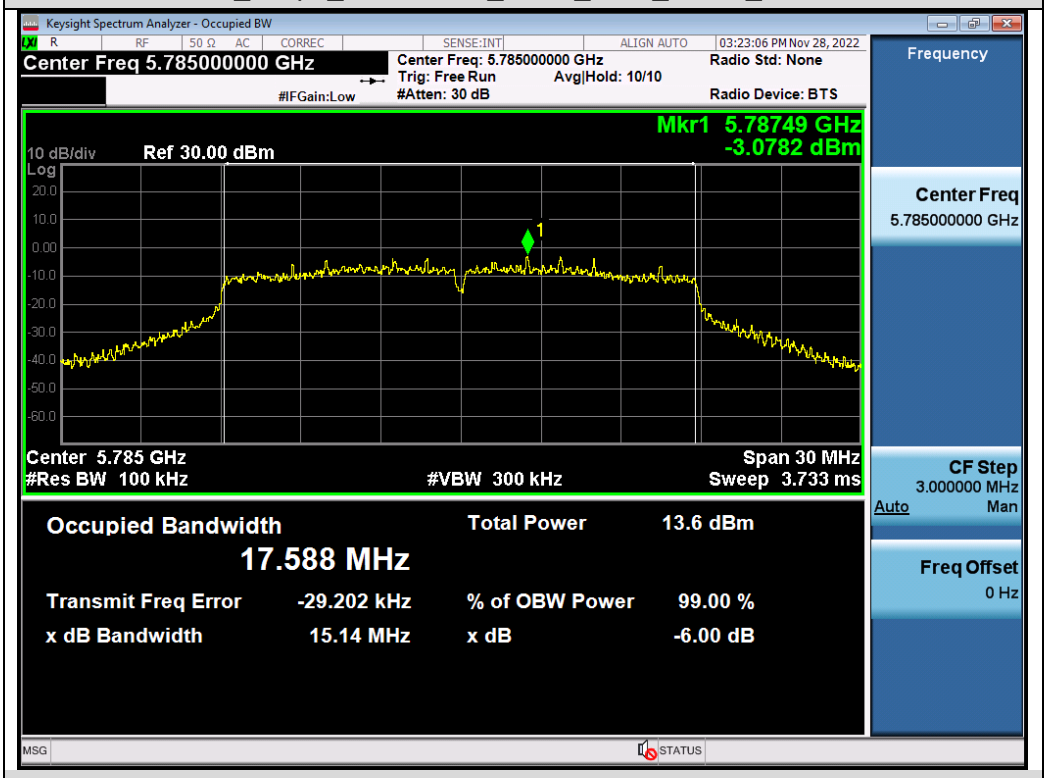


Test_Graph_802.11ac20_ANT1_5745_MCS0_DTSBW



Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW

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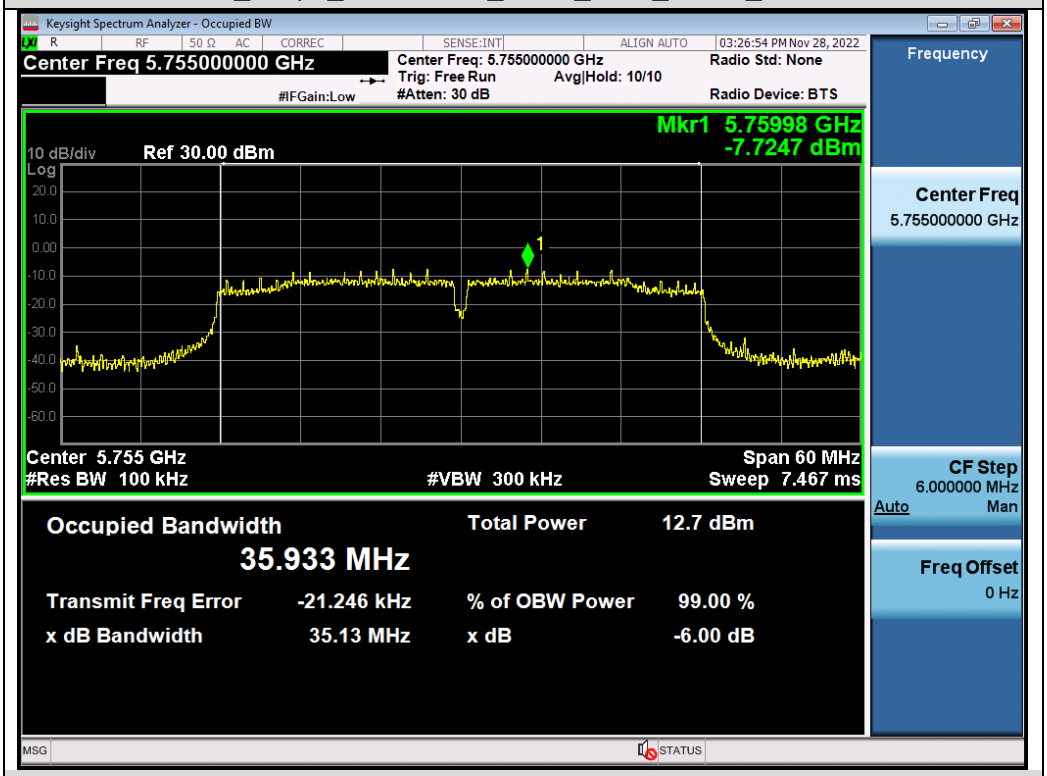
Test_Graph_802.11ac20_ANT1_5825_MCS9_DTSBW



Test_Graph_802.11ac40_ANT1_5755_MCS9_DTSBW

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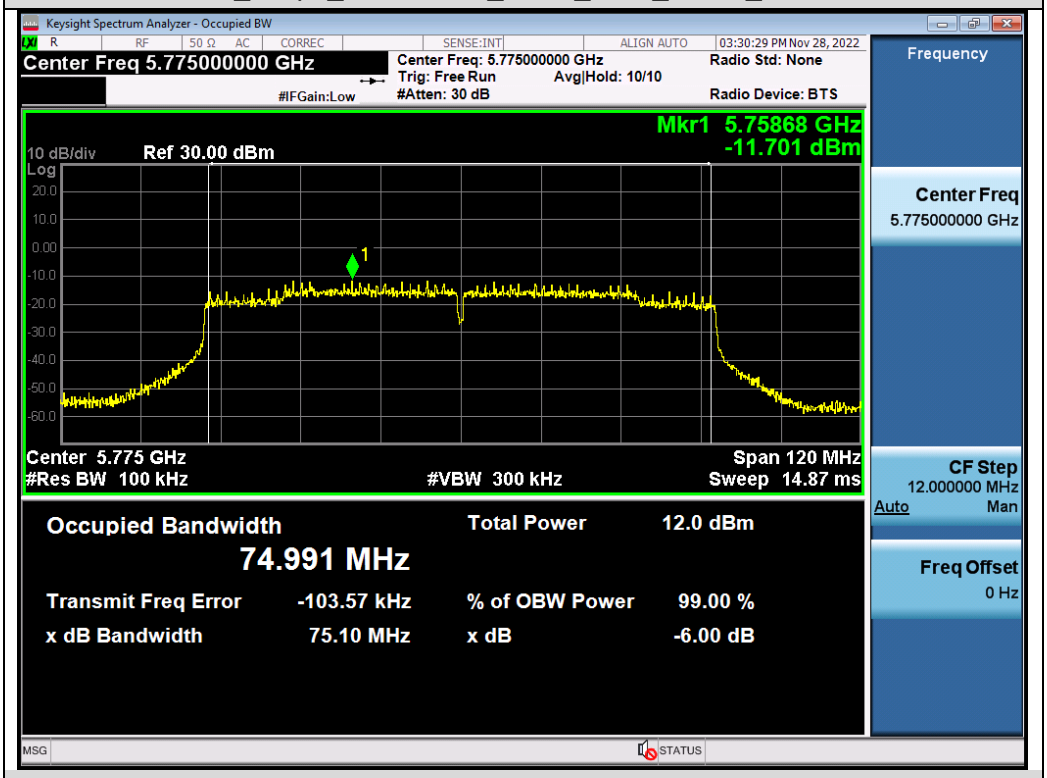
Test_Graph_802.11ac40_ANT1_5795_MCS9_DTSBW



Test_Graph_802.11ac80_ANT1_5775_MCS9_DTSBW

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Test_Graph_802.11a_ANT2_5745_6Mbps_DTSBW

Test_Graph_802.11a_ANT2_5785_6Mbps_DTSBW

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Test_Graph_802.11a_ANT2_5825_6Mbps_DTSBW

Test_Graph_802.11n20_ANT2_5745_MCS0_DTSBW

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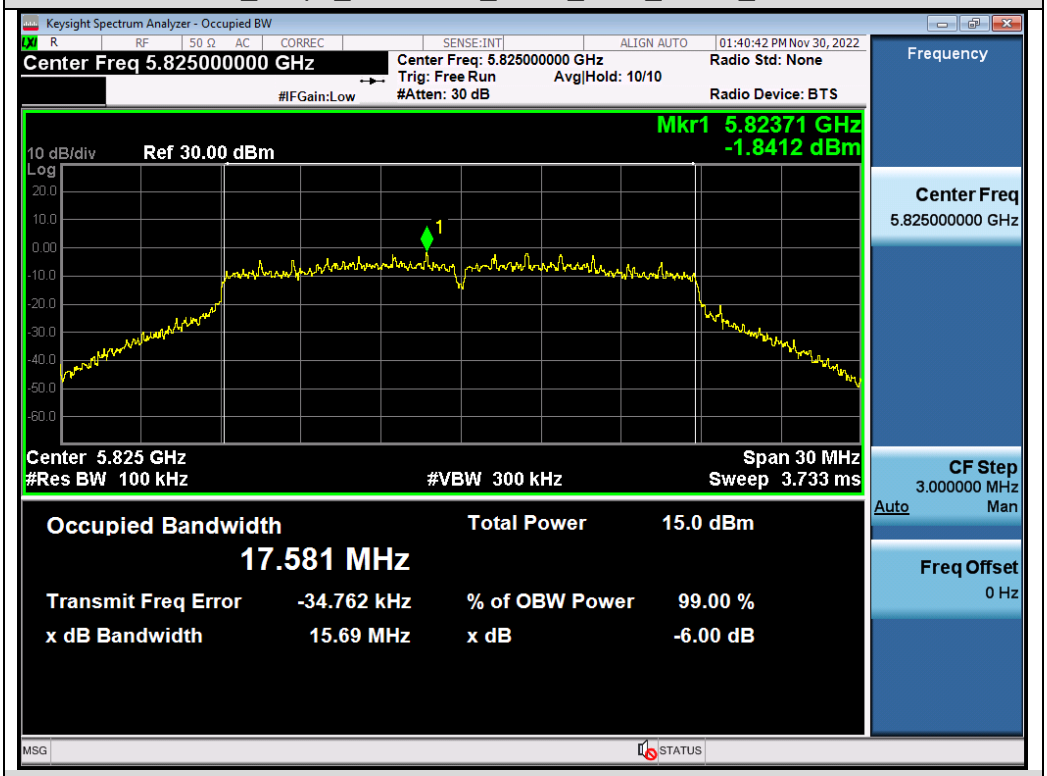
Test_Graph_802.11n20_ANT2_5785_MCS0_DTSBW



Test_Graph_802.11n20_ANT2_5825_MCS0_DTSBW

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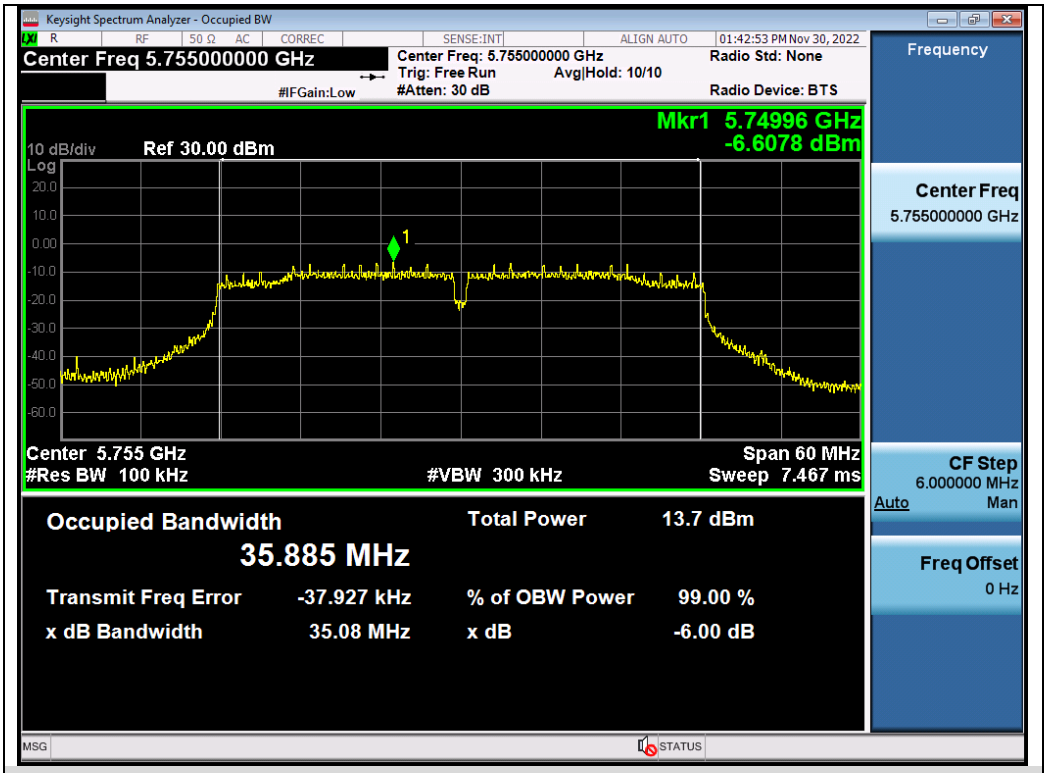

Test_Graph_802.11n40_ANT2_5755_MCS0_DTSBW

Test_Graph_802.11n40_ANT2_5795_MCS0_DTSBW

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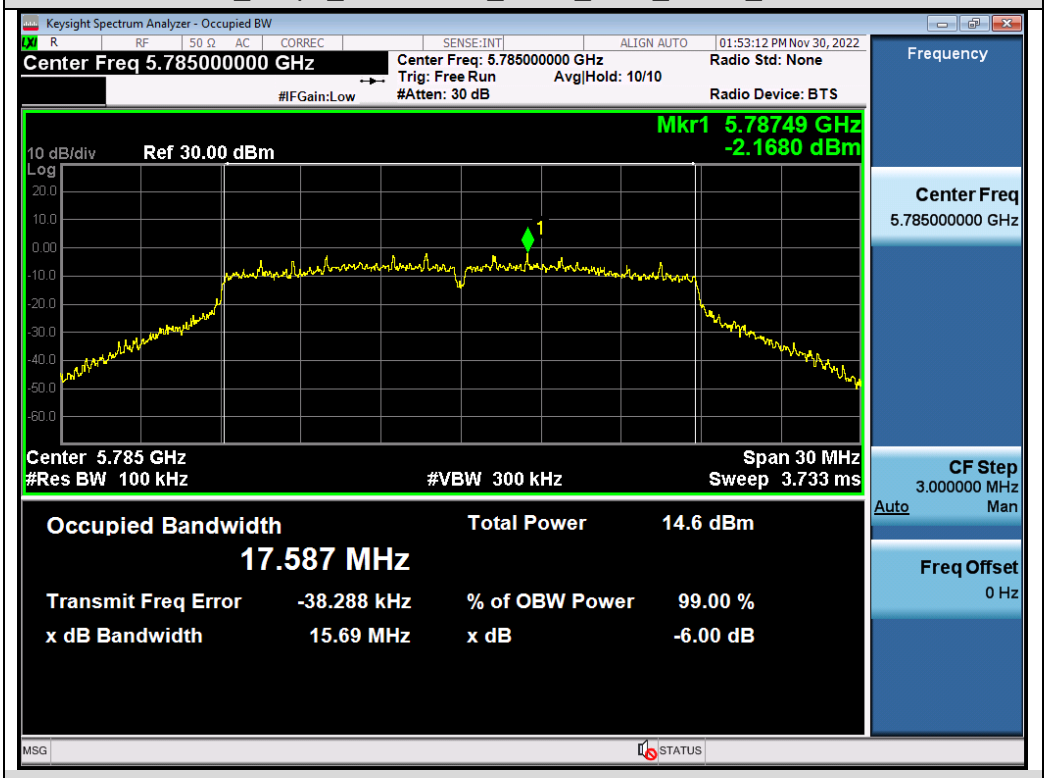
Test_Graph_802.11ac20_ANT2_5745_MCS0_DTSBW



Test_Graph_802.11ac20_ANT2_5785_MCS0_DTSBW

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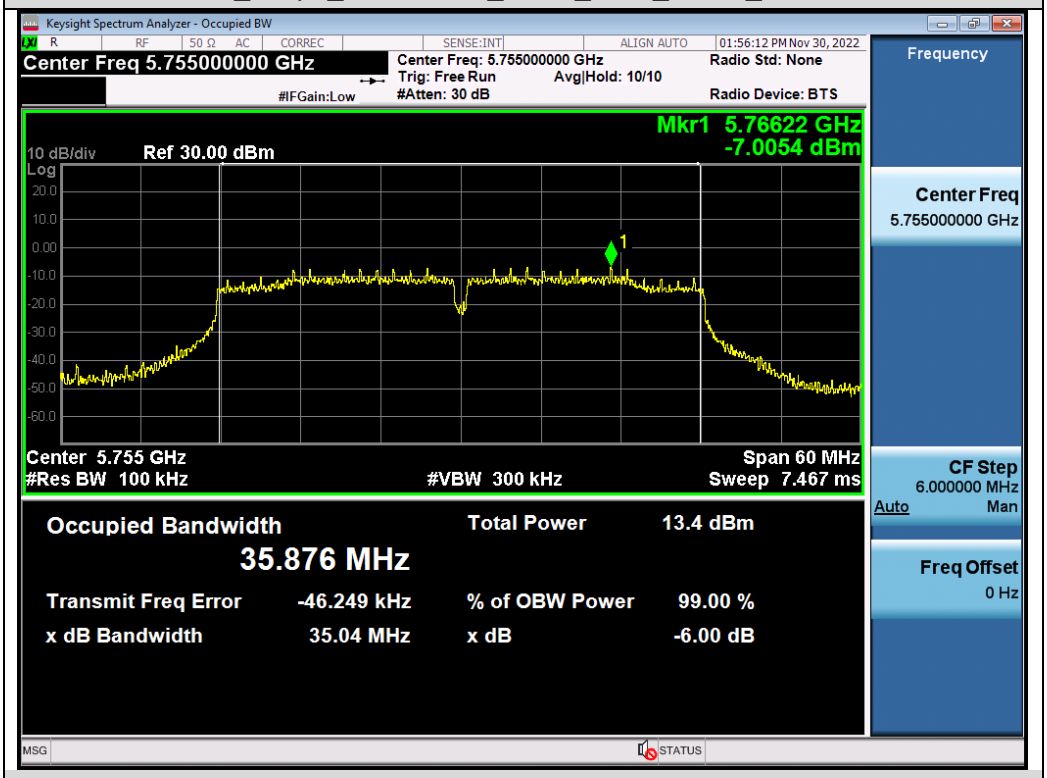
Test_Graph_802.11ac20_ANT2_5825_MCS9_DTSBW



Test_Graph_802.11ac40_ANT2_5755_MCS9_DTSBW

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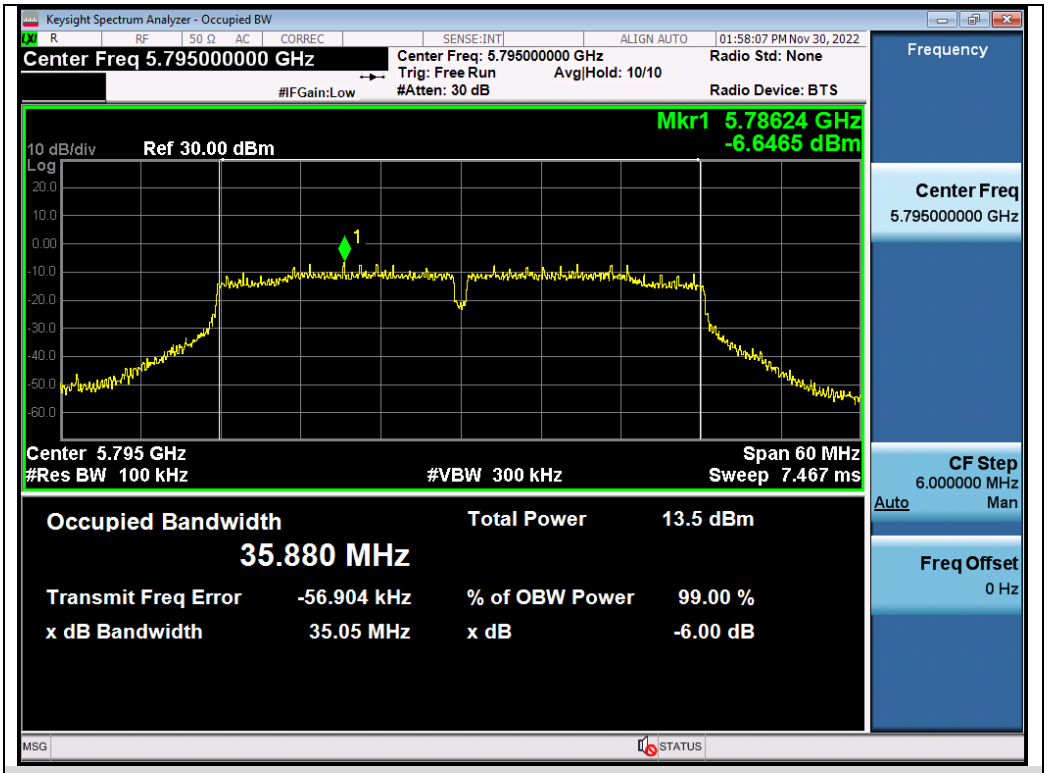
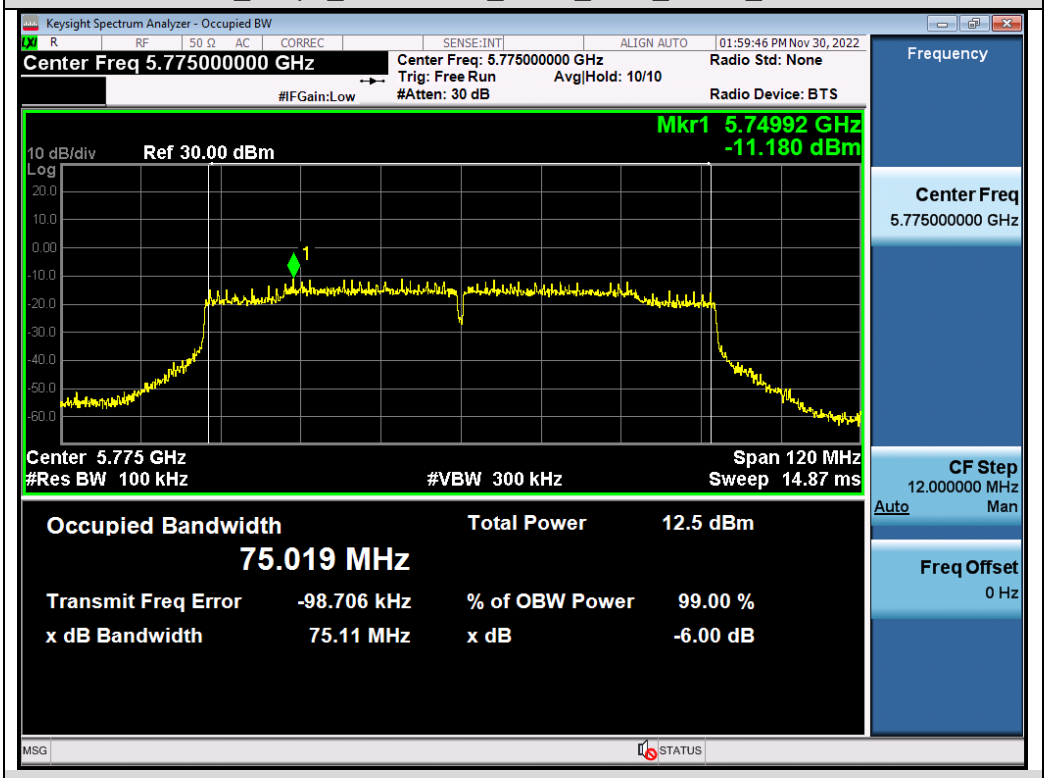


Test_Graph_802.11ac40_ANT2_5795_MCS9_DTSBW



Test_Graph_802.11ac80_ANT2_5775_MCS9_DTSBW

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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-antenna 1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	2.134	11	Pass
	5200	2.143	11	Pass
	5240	1.636	11	Pass
802.11n20	5180	1.556	11	Pass
	5200	1.070	11	Pass
	5240	0.514	11	Pass
802.11n40	5190	-2.445	11	Pass
	5230	-2.855	11	Pass
802.11ac20	5180	0.444	11	Pass
	5200	0.628	11	Pass
	5240	0.539	11	Pass
802.11ac40	5190	-3.250	11	Pass
	5230	-4.089	11	Pass
802.11ac80	5210	-6.991	11	Pass

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Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	1.795	11	Pass
	5200	2.131	11	Pass
	5240	1.906	11	Pass
802.11n20	5180	1.693	11	Pass
	5200	1.290	11	Pass
	5240	1.198	11	Pass
802.11n40	5190	-2.248	11	Pass
	5230	-2.390	11	Pass
802.11ac20	5180	0.410	11	Pass
	5200	0.471	11	Pass
	5240	0.188	11	Pass
802.11ac40	5190	-3.148	11	Pass
	5230	-3.395	11	Pass
802.11ac80	5210	-6.763	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	4.635	8.14	Pass
	5200	4.192	8.14	Pass
	5240	3.880	8.14	Pass
802.11n40	5190	0.665	8.14	Pass
	5230	0.394	8.14	Pass
802.11ac20	5180	3.437	8.14	Pass
	5200	3.561	8.14	Pass
	5240	3.377	8.14	Pass
802.11ac40	5190	-0.188	8.14	Pass
	5230	-0.718	8.14	Pass
802.11ac80	5210	-3.865	8.14	Pass

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Test Data of Conducted Output Power Density for band 5.2-5.35 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	1.499	11	Pass
	5300	0.749	11	Pass
	5320	0.471	11	Pass
802.11n20	5260	0.749	11	Pass
	5300	0.396	11	Pass
	5320	0.646	11	Pass
802.11n40	5270	-2.937	11	Pass
	5310	-3.837	11	Pass
802.11ac20	5260	-0.461	11	Pass
	5300	-1.007	11	Pass
	5320	-1.428	11	Pass
802.11ac40	5270	-4.022	11	Pass
	5310	-4.674	11	Pass
802.11ac80	5290	-7.591	11	Pass

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Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	1.699	11	Pass
	5300	1.130	11	Pass
	5320	0.863	11	Pass
802.11n20	5260	1.185	11	Pass
	5300	0.719	11	Pass
	5320	0.621	11	Pass
802.11n40	5270	-2.885	11	Pass
	5310	-3.492	11	Pass
802.11ac20	5260	0.033	11	Pass
	5300	-0.379	11	Pass
	5320	-0.327	11	Pass
802.11ac40	5270	-3.857	11	Pass
	5310	-4.189	11	Pass
802.11ac80	5290	-7.463	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	3.983	8.14	Pass
	5300	3.571	8.14	Pass
	5320	3.644	8.14	Pass
802.11n40	5270	0.099	8.14	Pass
	5310	-0.651	8.14	Pass
802.11ac20	5260	2.803	8.14	Pass
	5300	2.329	8.14	Pass
	5320	2.168	8.14	Pass
802.11ac40	5270	-0.928	8.14	Pass
	5310	-1.414	8.14	Pass
802.11ac80	5290	-4.516	8.14	Pass

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Test Data of Conducted Output Power Density for band 5.47-5.725 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	-0.161	11	Pass
	5600	0.267	11	Pass
	5700	0.970	11	Pass
802.11n20	5500	-0.571	11	Pass
	5600	-0.192	11	Pass
	5700	0.157	11	Pass
802.11n40	5510	-4.038	11	Pass
	5590	-3.084	11	Pass
	5670	-2.960	11	Pass
802.11ac20	5500	-1.148	11	Pass
	5600	-0.248	11	Pass
	5700	-0.413	11	Pass
802.11ac40	5510	-4.609	11	Pass
	5590	-4.051	11	Pass
	5670	-4.174	11	Pass
802.11ac80	5530	-7.893	11	Pass
	5610	-7.427	11	Pass

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Test Data of Conducted Output Power Density for band 5.47-5.725 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	0.388	11	Pass
	5600	1.074	11	Pass
	5700	0.158	11	Pass
802.11n20	5500	-0.380	11	Pass
	5600	0.399	11	Pass
	5700	-0.418	11	Pass
802.11n40	5510	-3.668	11	Pass
	5590	-3.007	11	Pass
	5670	-3.583	11	Pass
802.11ac20	5500	-1.156	11	Pass
	5600	-0.223	11	Pass
	5700	-1.165	11	Pass
802.11ac40	5510	-4.907	11	Pass
	5590	-4.037	11	Pass
	5670	-4.346	11	Pass
802.11ac80	5530	-7.340	11	Pass
	5610	-7.233	11	Pass

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Test Data of Conducted Output Power Density for band 5.47-5.725 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11n20	5500	2.536	8.14	Pass
	5600	3.124	8.14	Pass
	5700	2.889	8.14	Pass
802.11n40	5510	-0.839	8.14	Pass
	5590	-0.035	8.14	Pass
	5670	-0.250	8.14	Pass
802.11ac20	5500	1.858	8.14	Pass
	5600	2.775	8.14	Pass
	5700	2.238	8.14	Pass
802.11ac40	5510	-1.745	8.14	Pass
	5590	-1.034	8.14	Pass
	5670	-1.249	8.14	Pass
802.11ac80	5530	-4.597	8.14	Pass
	5610	-4.319	8.14	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-antenna 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	-10.309	-3.319	30	Pass
	5785	-10.453	-3.463	30	Pass
	5825	-9.646	-2.656	30	Pass
802.11n20	5745	-10.452	-3.462	30	Pass
	5785	-10.463	-3.473	30	Pass
	5825	-9.826	-2.836	30	Pass
802.11n40	5755	-14.344	-7.354	30	Pass
	5795	-14.225	-7.235	30	Pass
802.11ac20	5745	-10.288	-3.298	30	Pass
	5785	-10.415	-3.425	30	Pass
	5825	-10.100	-3.110	30	Pass
802.11ac40	5755	-14.398	-7.408	30	Pass
	5795	-14.313	-7.323	30	Pass
802.11ac80	5775	-17.669	-10.679	30	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-antenna 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	-8.737	-1.747	30	Pass
	5785	-8.906	-1.916	30	Pass
	5825	-9.191	-2.201	30	Pass
802.11n20	5745	-9.760	-2.770	30	Pass
	5785	-9.889	-2.899	30	Pass
	5825	-9.467	-2.477	30	Pass
802.11n40	5755	-13.469	-6.479	30	Pass
	5795	-13.100	-6.110	30	Pass
802.11ac20	5745	-9.953	-2.963	30	Pass
	5785	-9.786	-2.796	30	Pass
	5825	-9.750	-2.760	30	Pass
802.11ac40	5755	-13.868	-6.878	30	Pass
	5795	-13.736	-6.746	30	Pass
802.11ac80	5775	-16.610	-9.620	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	-7.082	-0.092	27.14	Pass
	5785	-7.156	-0.166	27.14	Pass
	5825	-6.632	0.358	27.14	Pass
802.11n40	5755	-10.874	-3.884	27.14	Pass
	5795	-10.616	-3.626	27.14	Pass
802.11ac20	5745	-7.107	-0.117	27.14	Pass
	5785	-7.079	-0.089	27.14	Pass
	5825	-6.911	0.079	27.14	Pass
802.11ac40	5755	-11.115	-4.125	27.14	Pass
	5795	-11.005	-4.015	27.14	Pass
802.11ac80	5775	-14.097	-7.107	27.14	Pass

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

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

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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_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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Test_Graph_802.11ac40_ANT1_5230_MCS9_PSD

Test_Graph_802.11ac80_ANT1_5210_MCS9_PSD

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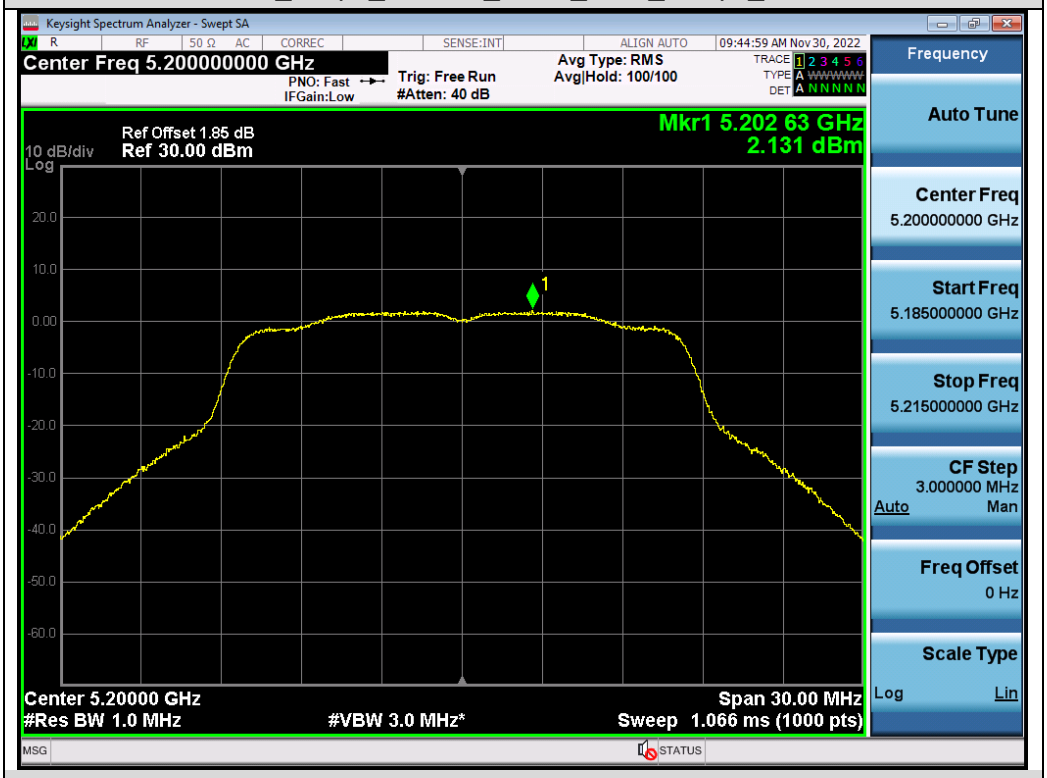
Test_Graph_802.11a_ANT2_5180_6Mbps_PSD



Test_Graph_802.11a_ANT2_5200_6Mbps_PSD

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Test_Graph_802.11a_ANT2_5240_6Mbps_PSD

Test_Graph_802.11n20_ANT2_5180_MCS0_PSD

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Test_Graph_802.11n20_ANT2_5200_MCS0_PSD

Test_Graph_802.11n20_ANT2_5240_MCS0_PSD

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Test_Graph_802.11n40_ANT2_5190_MCS0_PSD

Test_Graph_802.11n40_ANT2_5230_MCS0_PSD

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Test_Graph_802.11ac20_ANT2_5180_MCS0_PSD

Test_Graph_802.11ac20_ANT2_5200_MCS0_PSD

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Test_Graph_802.11ac20_ANT2_5240_MCS9_PSD

Test_Graph_802.11ac40_ANT2_5190_MCS9_PSD

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Test_Graph_802.11ac40_ANT2_5230_MCS9_PSD

Test_Graph_802.11ac80_ANT2_5210_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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Test_Graph_802.11n40_ANT1_5270_MCS0_PSD

Test_Graph_802.11n40_ANT1_5310_MCS0_PSD

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