

RF Test Data for RLAN (Conducted Measurement)

Product Name: IP Phone

Trade Mark: 

Test Model: H602W

FCC ID: 2APPZ-H602W

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A1: Emission Bandwidth and Occupied Bandwidth

Test Result

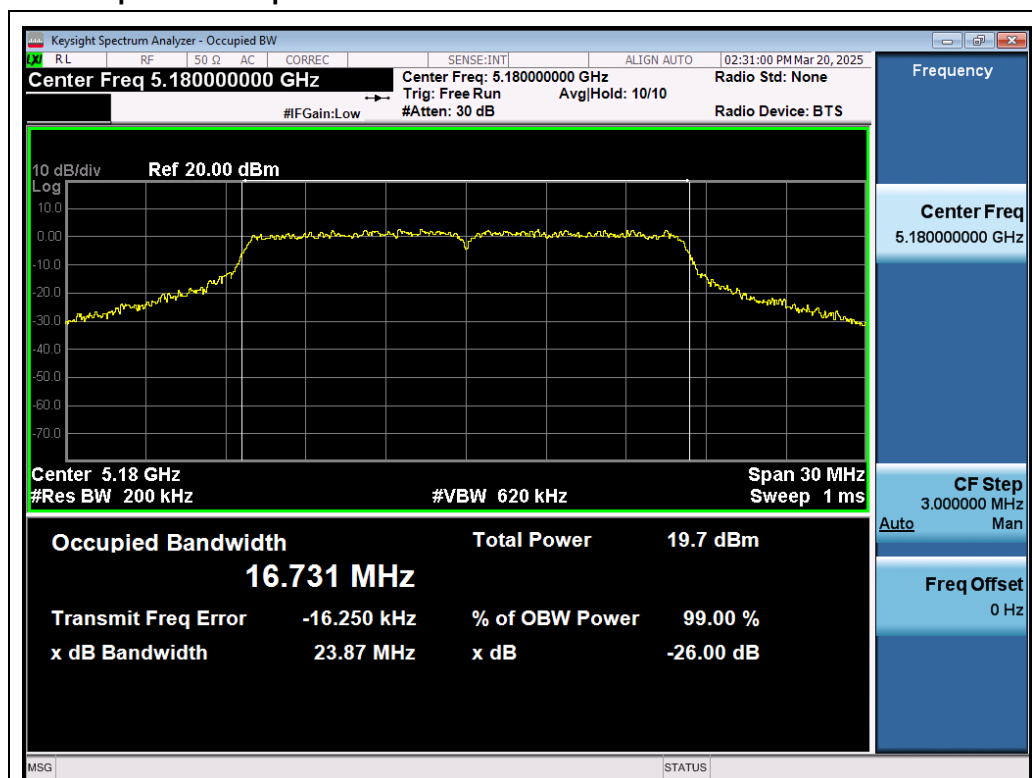
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz					
Test Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5180	16.731	23.871	N/A	Pass
	5200	16.717	23.389	N/A	Pass
	5240	16.688	22.976	N/A	Pass
802.11n20	5180	17.924	24.704	N/A	Pass
	5200	17.957	25.540	N/A	Pass
	5240	17.912	24.612	N/A	Pass
802.11n40	5190	36.427	44.773	N/A	Pass
	5230	36.434	46.235	N/A	Pass
802.11ac20	5180	17.916	24.988	N/A	Pass
	5200	17.930	25.556	N/A	Pass
	5240	17.932	24.575	N/A	Pass
802.11ac40	5190	36.366	44.571	N/A	Pass
	5230	36.272	43.710	N/A	Pass
802.11ac80	5210	75.776	86.268	N/A	Pass
802.11ax20	5180	19.059	24.445	N/A	Pass
	5200	19.070	23.410	N/A	Pass
	5240	19.075	23.631	N/A	Pass
802.11ax40	5190	38.003	44.771	N/A	Pass
	5230	37.918	46.273	N/A	Pass
802.11ax80	5210	77.351	86.560	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz					
Test Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5260	16.600	23.276	N/A	Pass
	5300	16.640	23.260	N/A	Pass
	5320	16.717	24.434	N/A	Pass
802.11n20	5260	17.933	24.465	N/A	Pass
	5300	17.919	25.096	N/A	Pass
	5320	17.927	25.578	N/A	Pass
802.11n40	5270	36.438	45.372	N/A	Pass
	5310	36.445	45.823	N/A	Pass
802.11ac20	5260	17.933	24.867	N/A	Pass
	5300	17.896	24.310	N/A	Pass
	5320	17.911	25.398	N/A	Pass
802.11ac40	5270	36.376	44.278	N/A	Pass
	5310	36.372	44.614	N/A	Pass
802.11ac80	5290	75.763	87.053	N/A	Pass
802.11ax20	5260	19.008	23.324	N/A	Pass
	5300	19.014	25.257	N/A	Pass
	5320	19.091	25.314	N/A	Pass
802.11ax40	5270	37.839	44.300	N/A	Pass
	5310	37.895	44.177	N/A	Pass
802.11ax80	5290	77.433	86.102	N/A	Pass

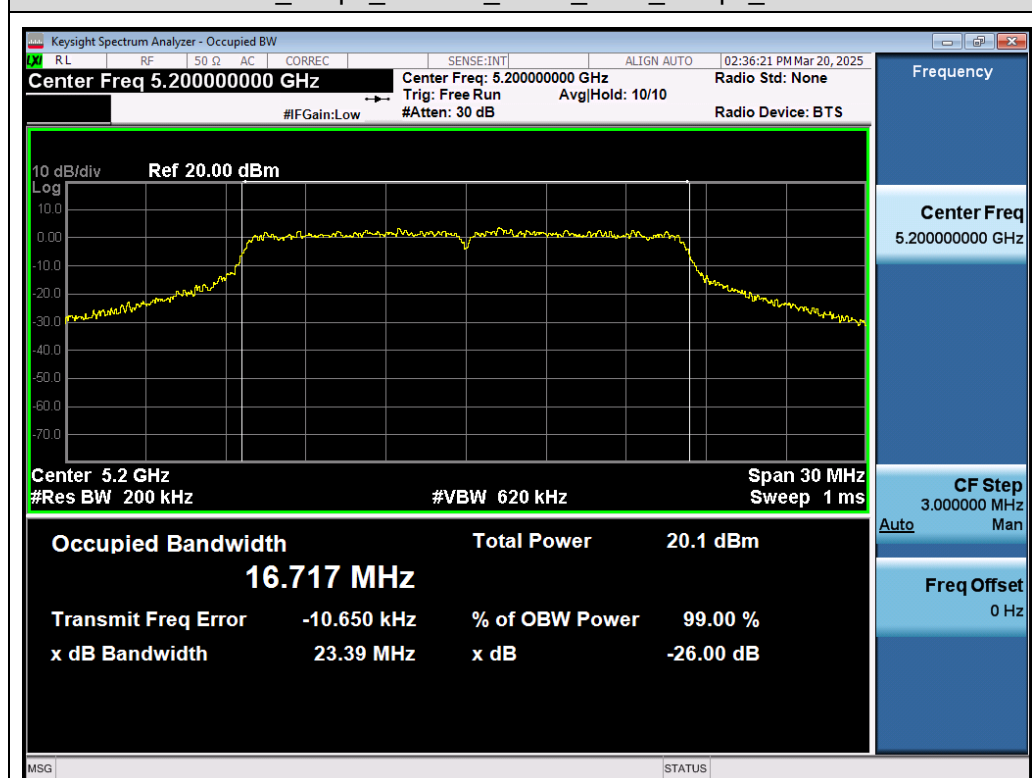
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz					
Test Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5500	16.746	24.092	N/A	Pass
	5600	16.725	23.658	N/A	Pass
	5700	16.721	24.003	N/A	Pass
802.11n20	5500	17.981	24.314	N/A	Pass
	5600	17.948	24.624	N/A	Pass
	5700	17.969	24.986	N/A	Pass
802.11n40	5510	36.631	45.183	N/A	Pass
	5590	36.690	46.429	N/A	Pass
	5670	36.516	45.592	N/A	Pass
802.11ac20	5500	17.960	25.022	N/A	Pass
	5600	17.943	25.214	N/A	Pass
	5700	18.037	25.599	N/A	Pass
802.11ac40	5510	36.475	44.909	N/A	Pass
	5590	36.572	45.905	N/A	Pass
	5670	36.525	45.873	N/A	Pass
802.11ac80	5530	75.958	87.629	N/A	Pass
	5610	76.033	87.778	N/A	Pass
802.11ax20	5500	19.139	24.563	N/A	Pass
	5600	19.086	24.180	N/A	Pass
	5700	19.155	24.366	N/A	Pass
802.11ax40	5510	38.065	45.164	N/A	Pass
	5590	38.016	46.455	N/A	Pass
	5670	37.956	44.272	N/A	Pass
802.11ac80	5530	77.570	85.925	N/A	Pass
	5610	77.590	87.668	N/A	Pass

Test Graphs

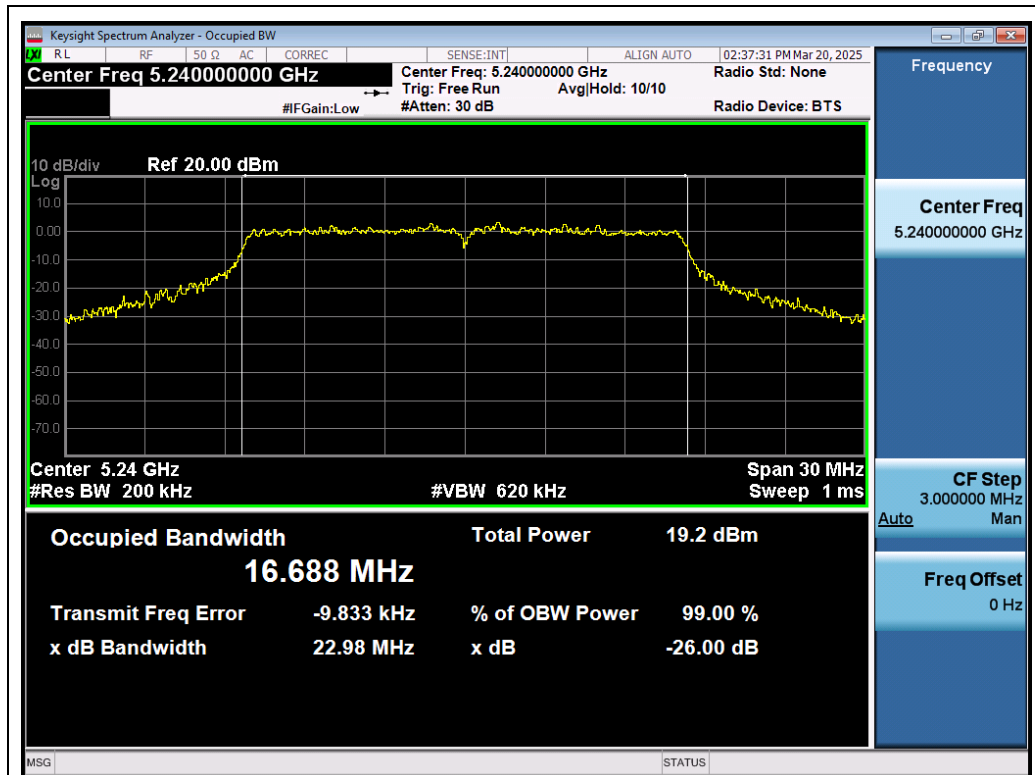
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



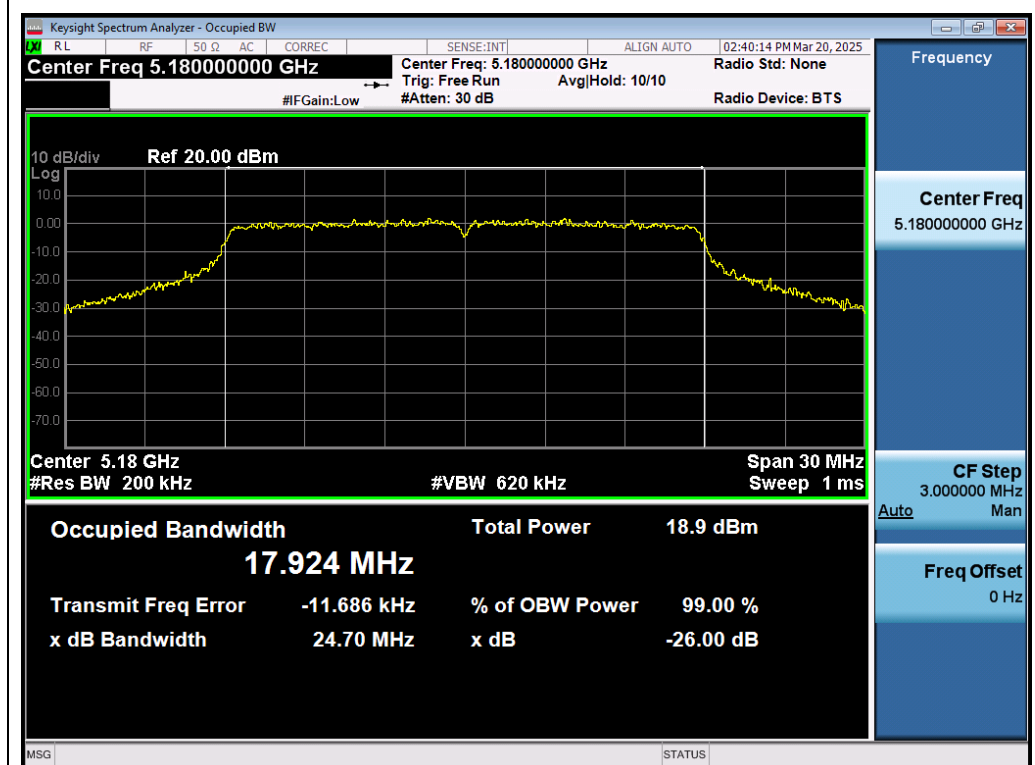
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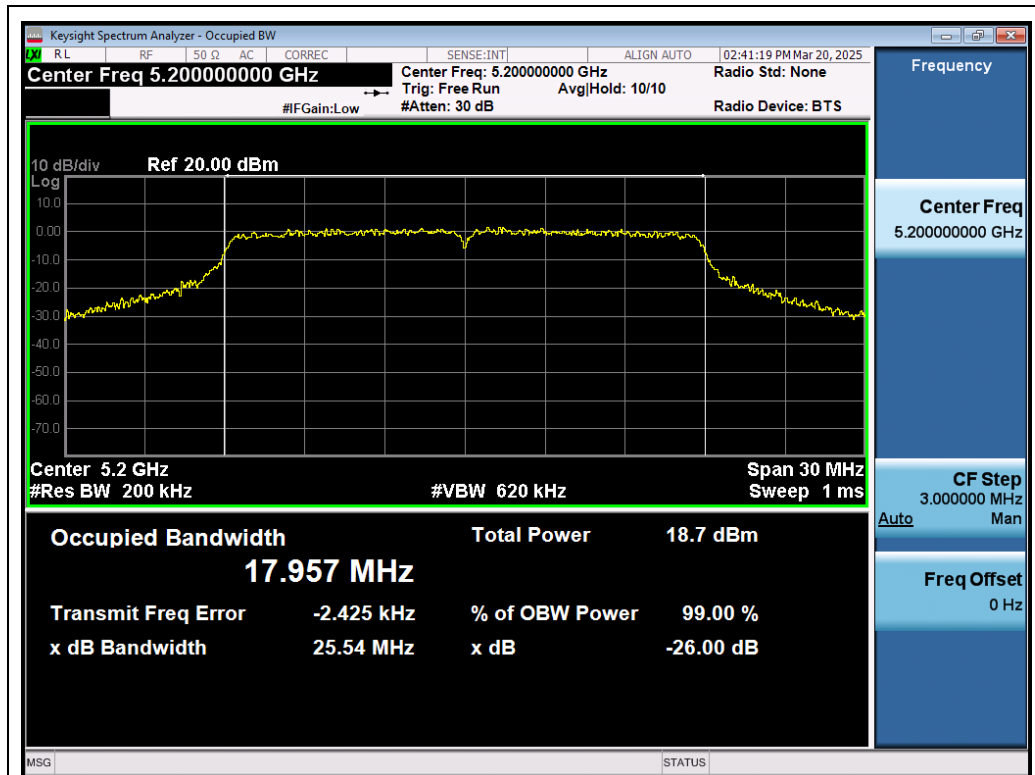
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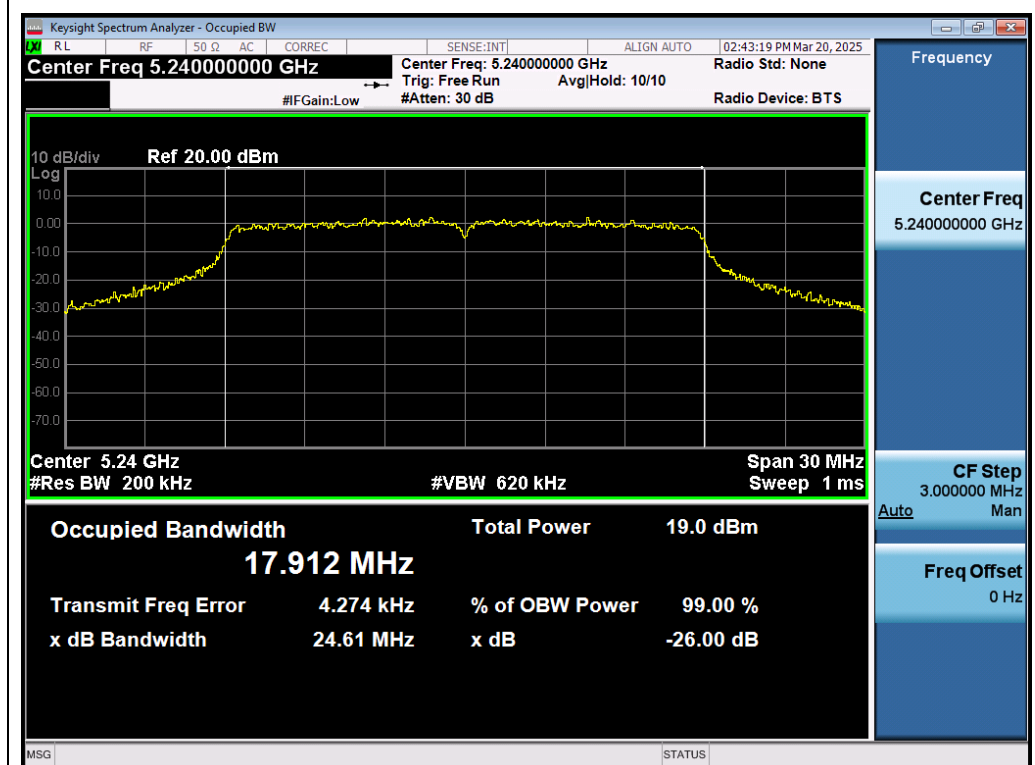
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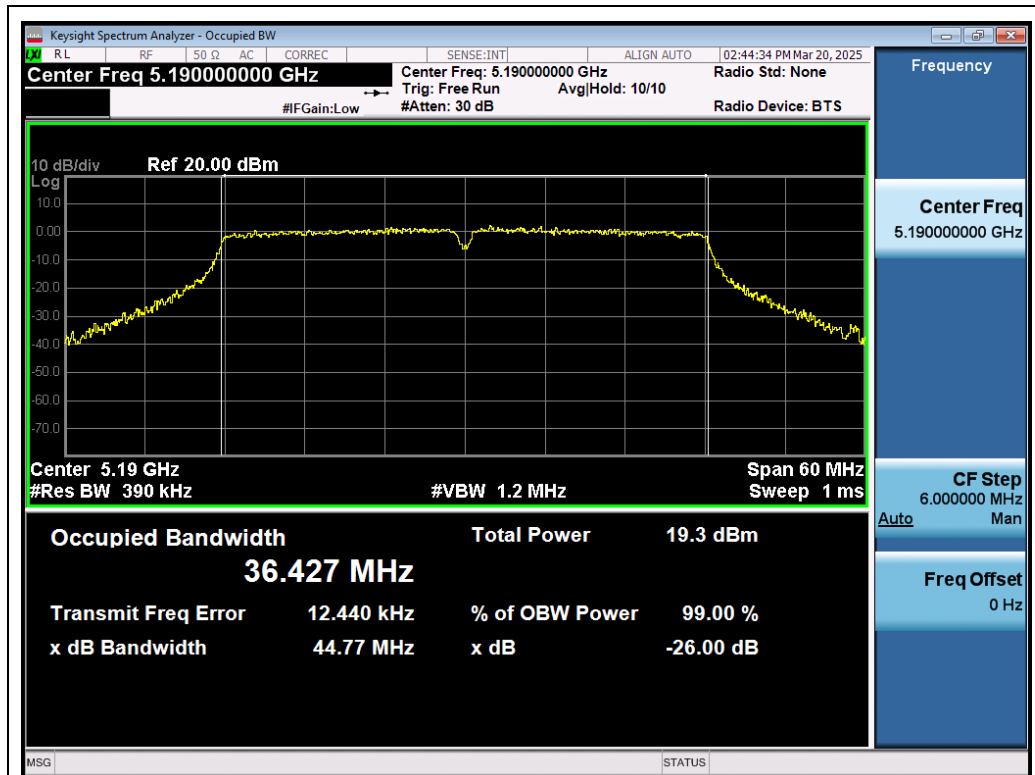
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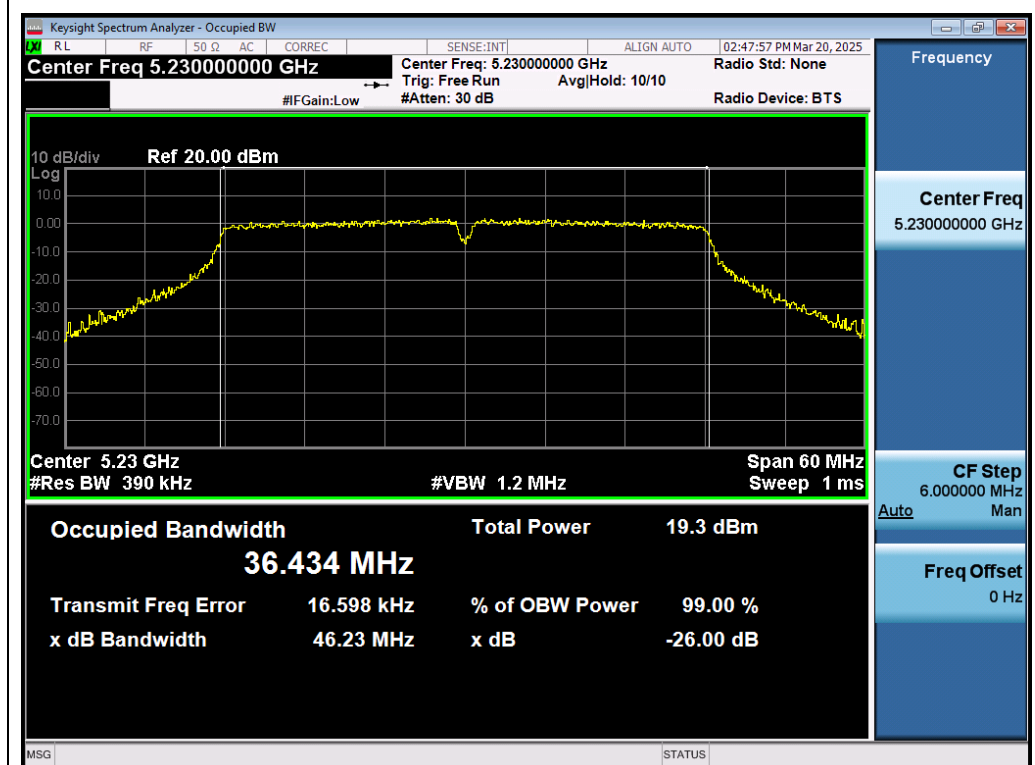
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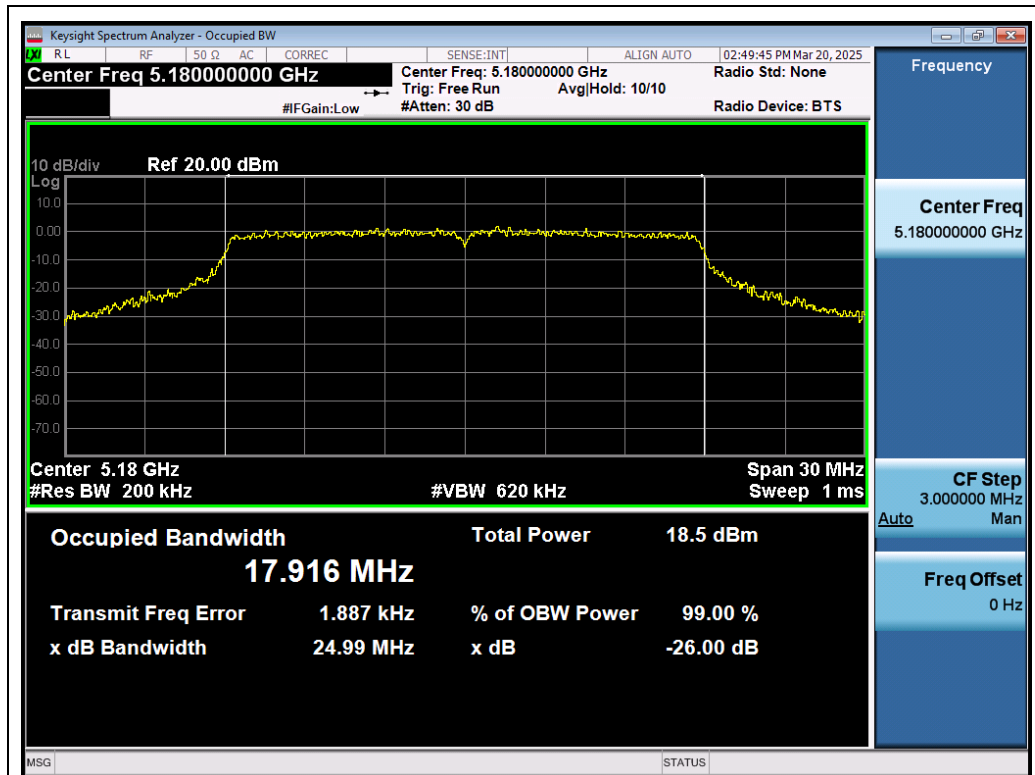
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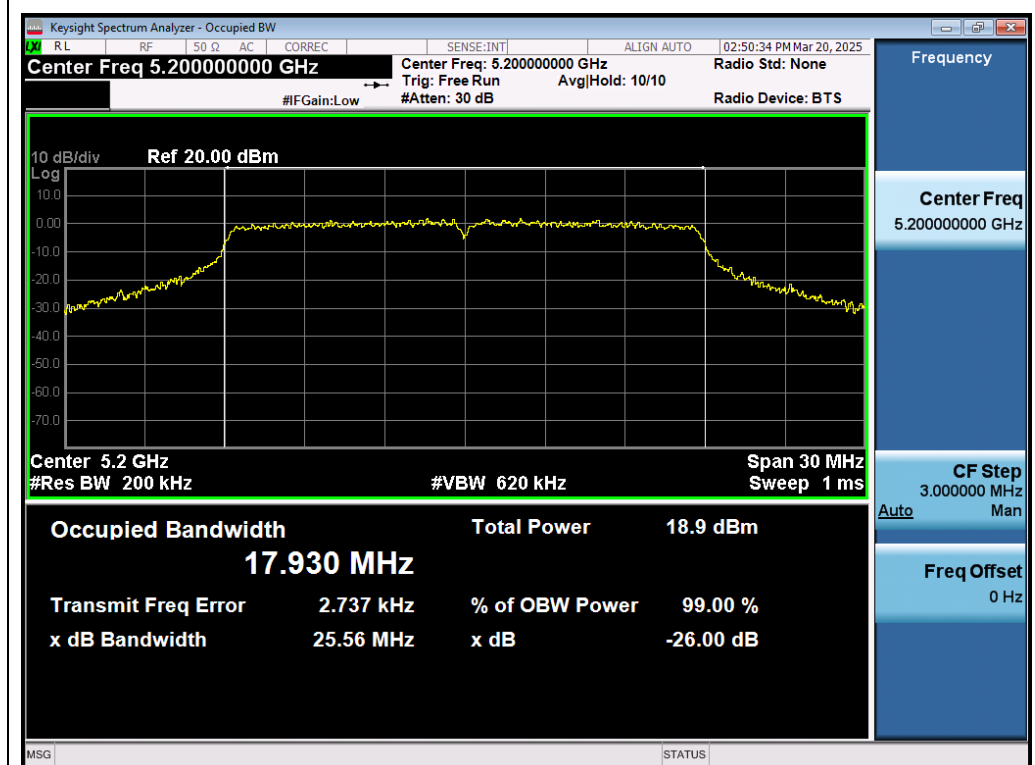
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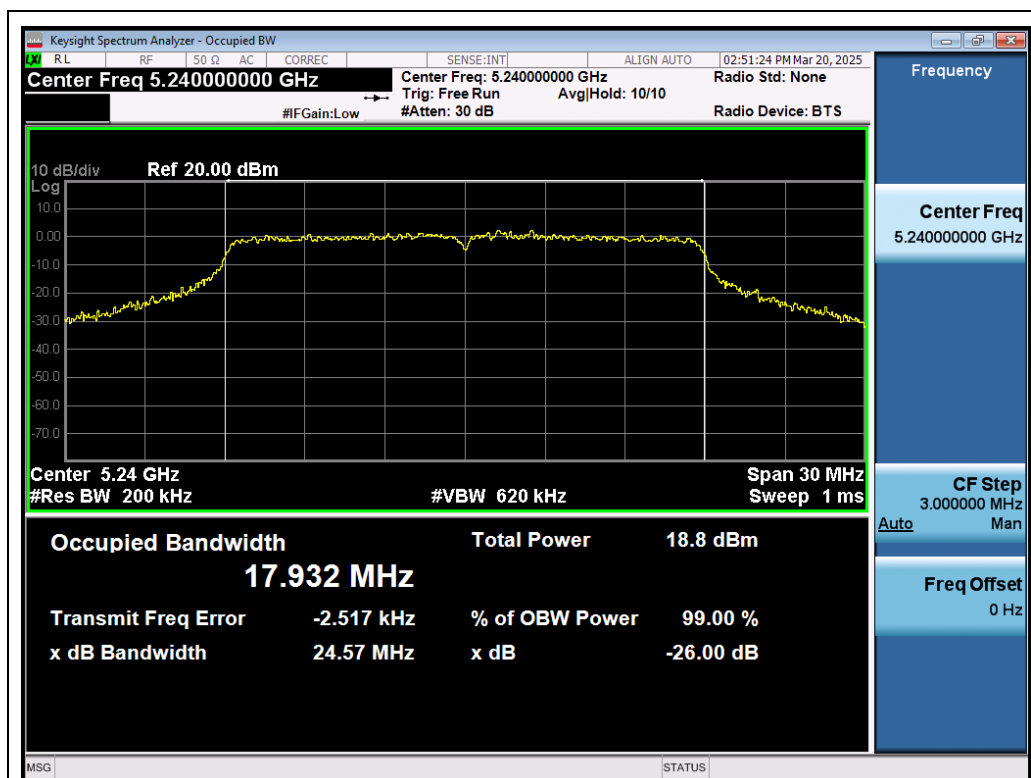
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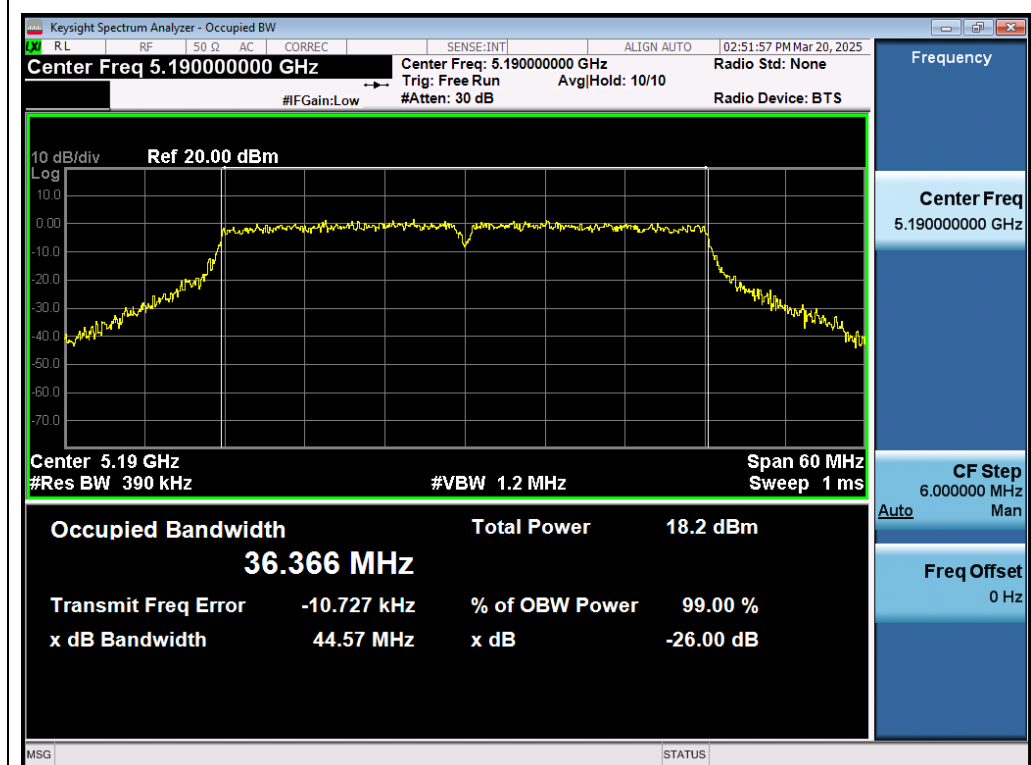
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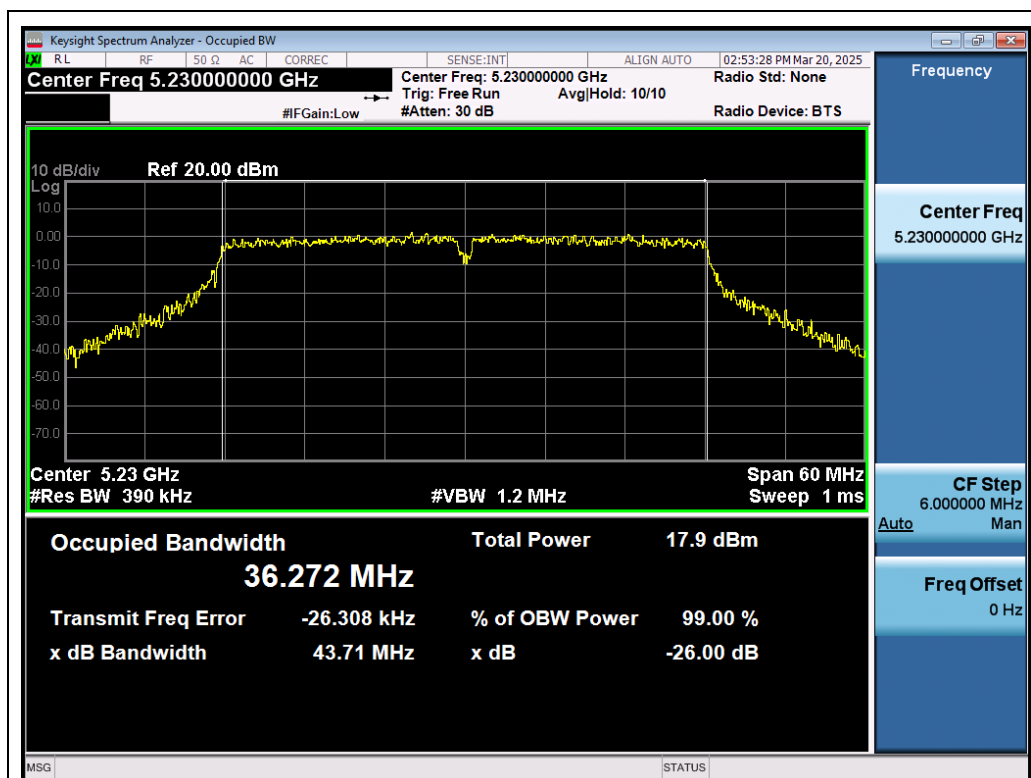
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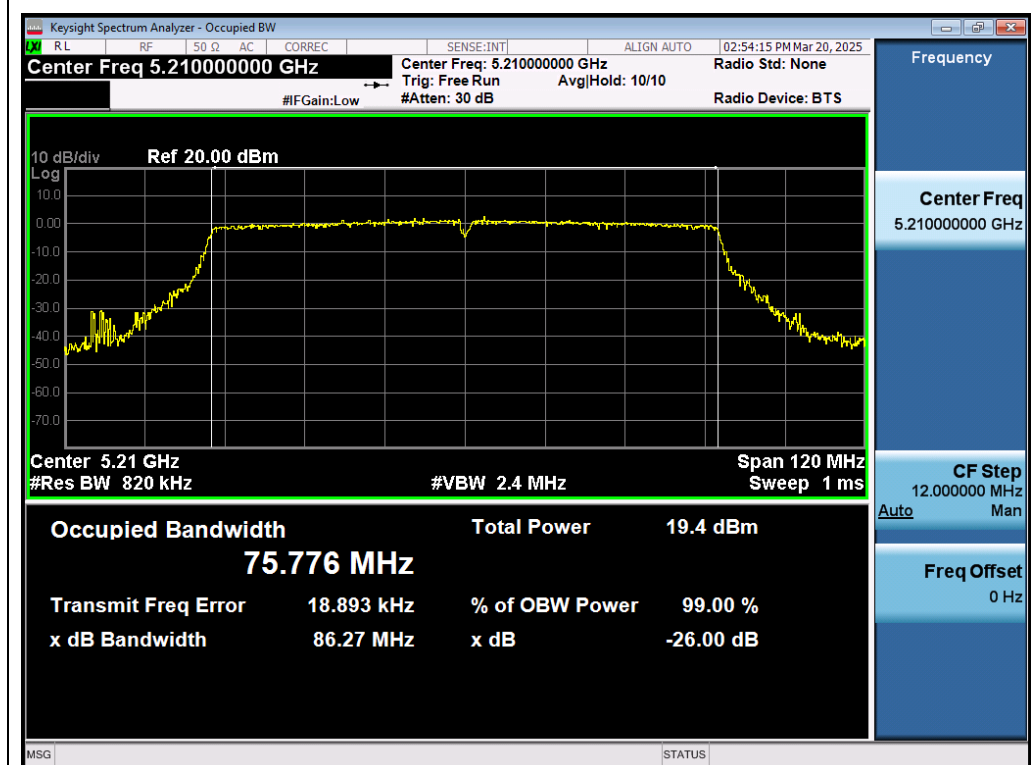
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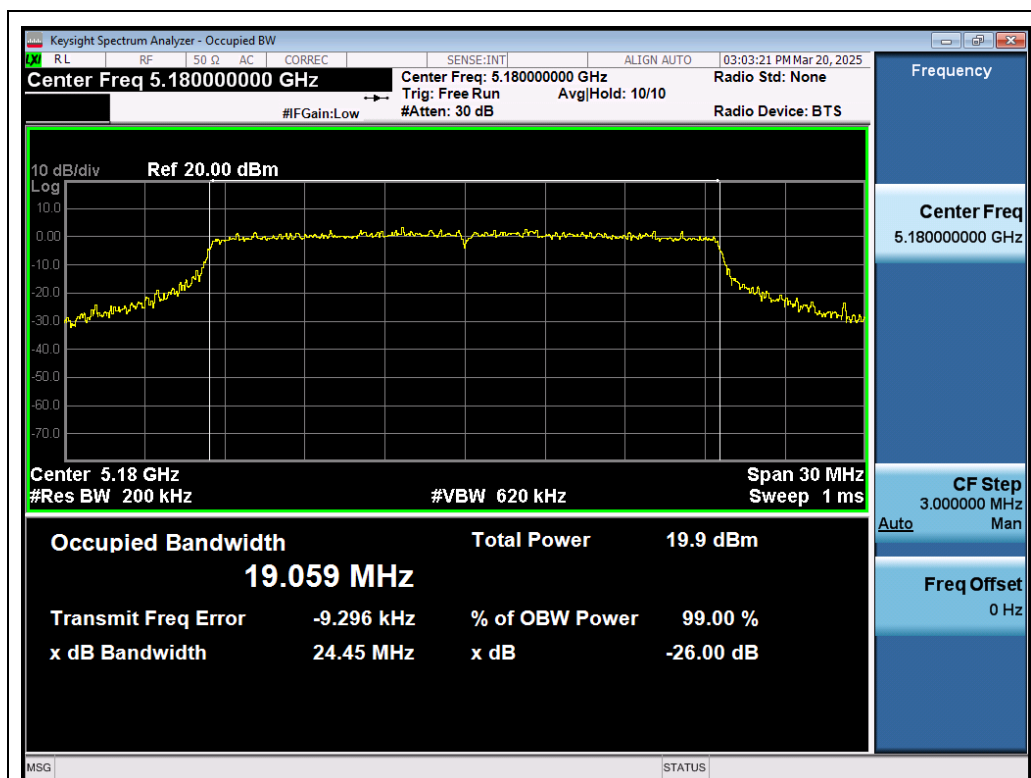
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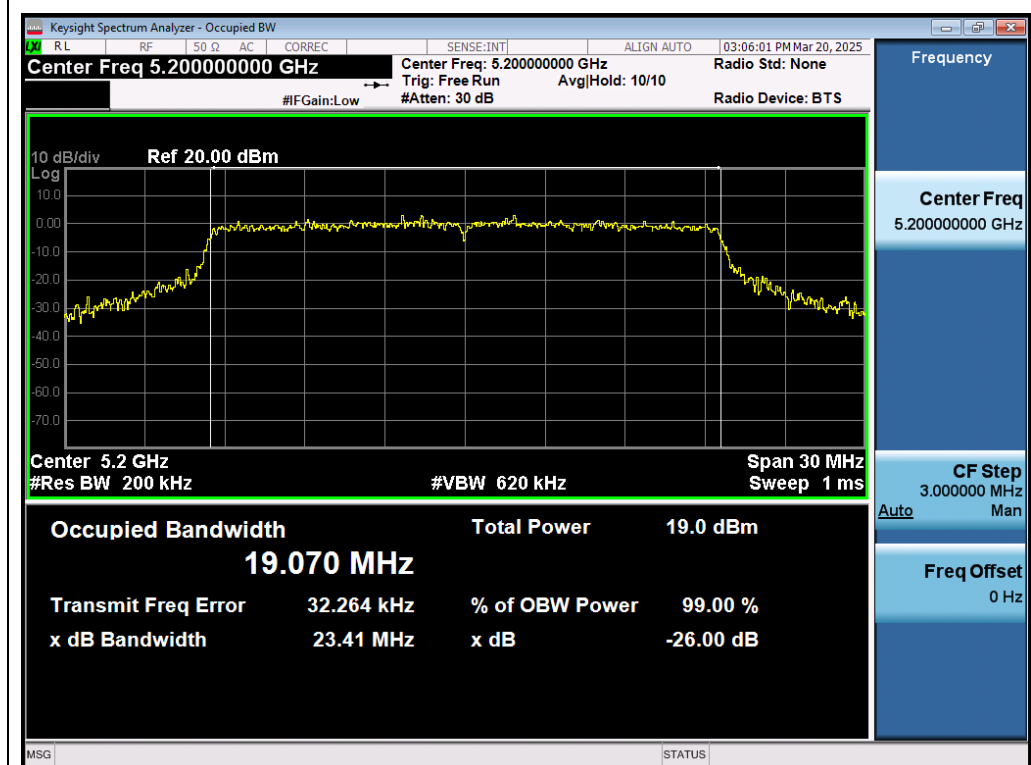
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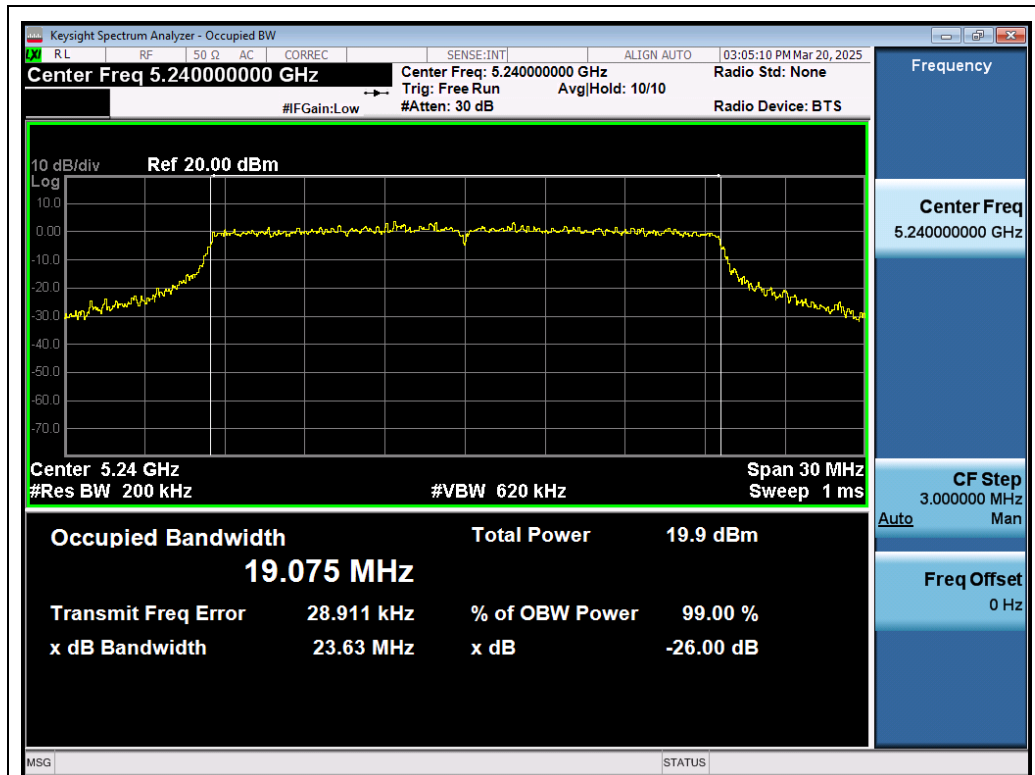
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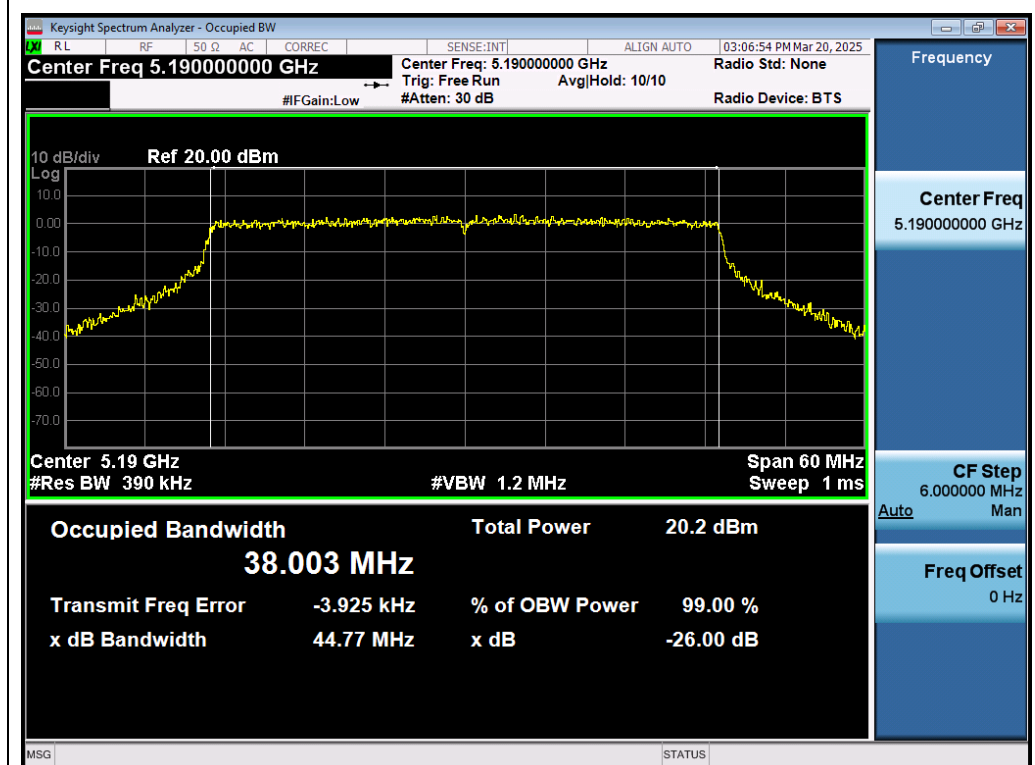
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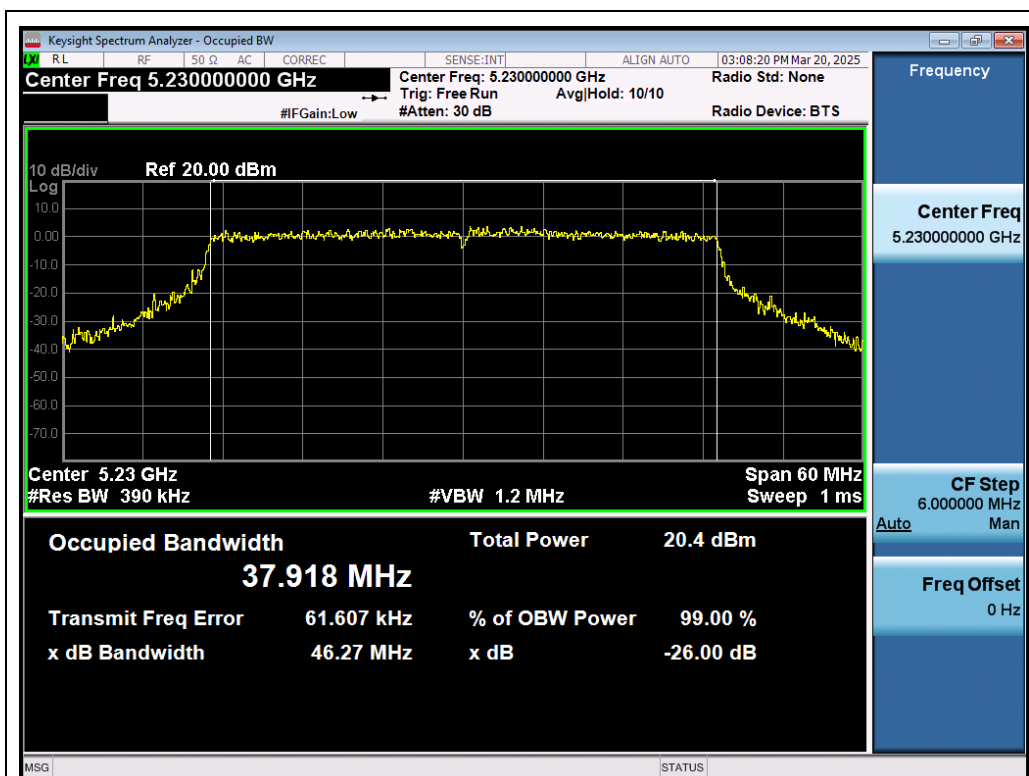
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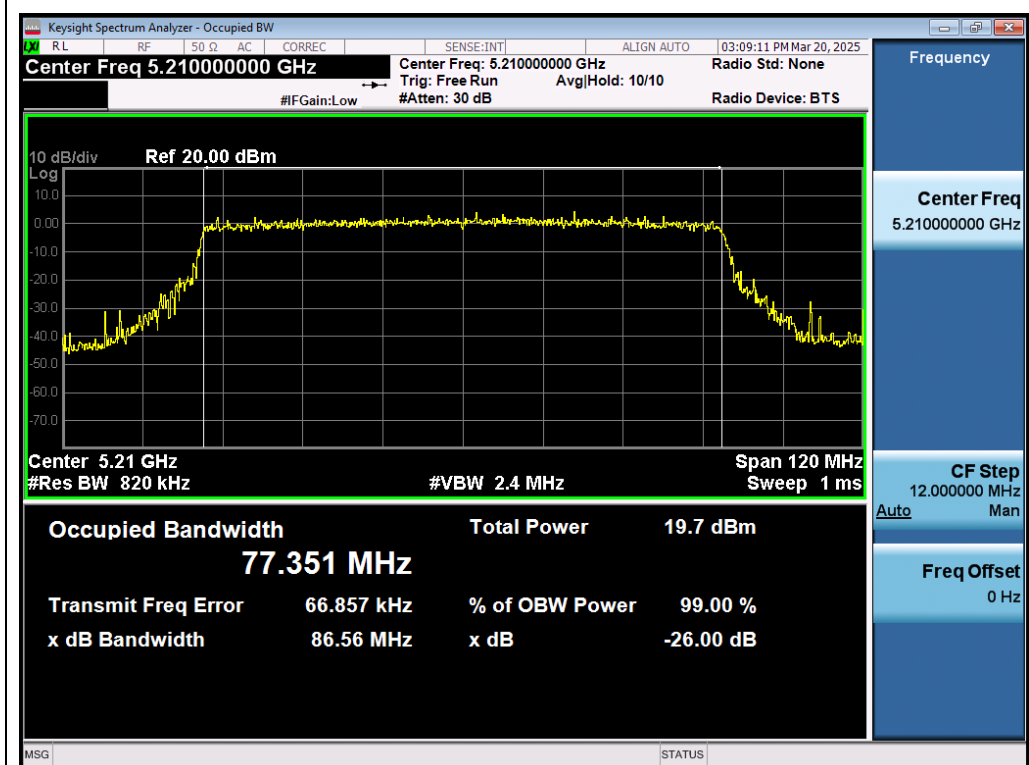
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Test_Graph_802.11ax40_ANT1_5190_MCS0_OBW

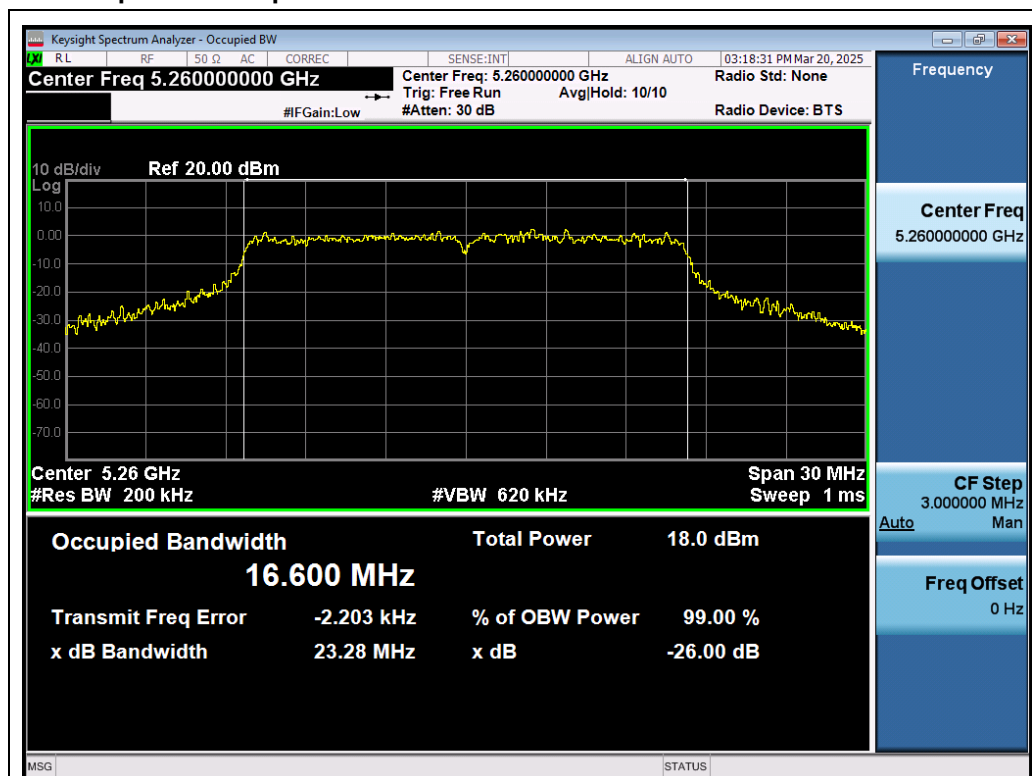


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Test_Graph_802.11ax80_ANT1_5210_MCS0_OBW

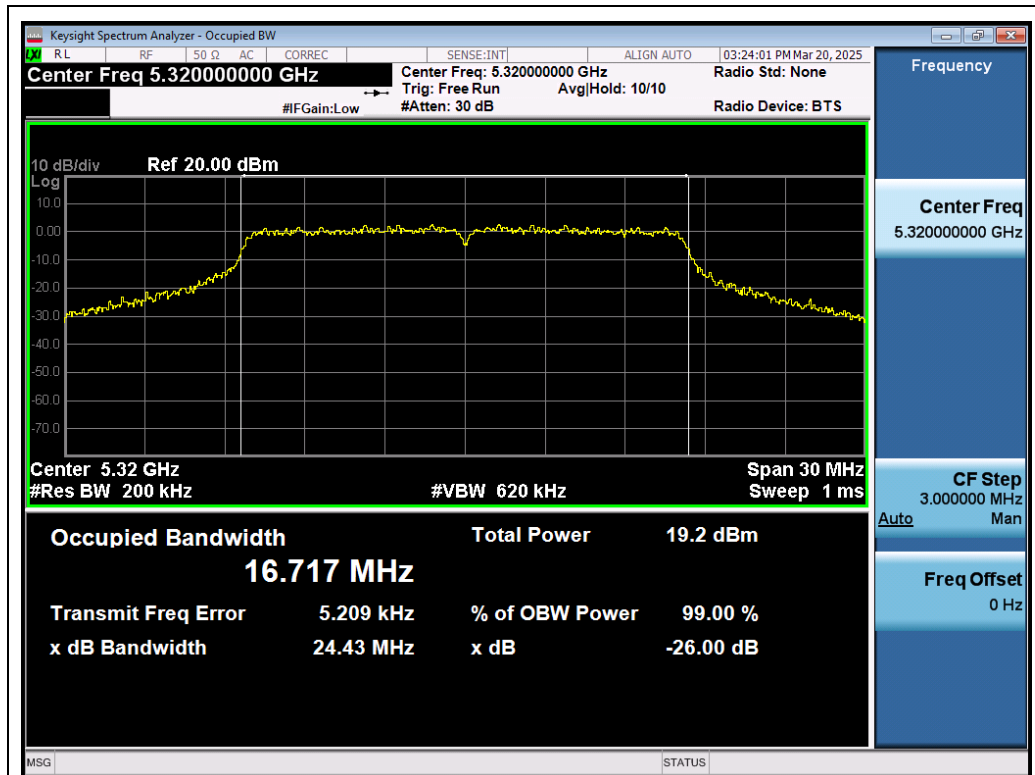
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz



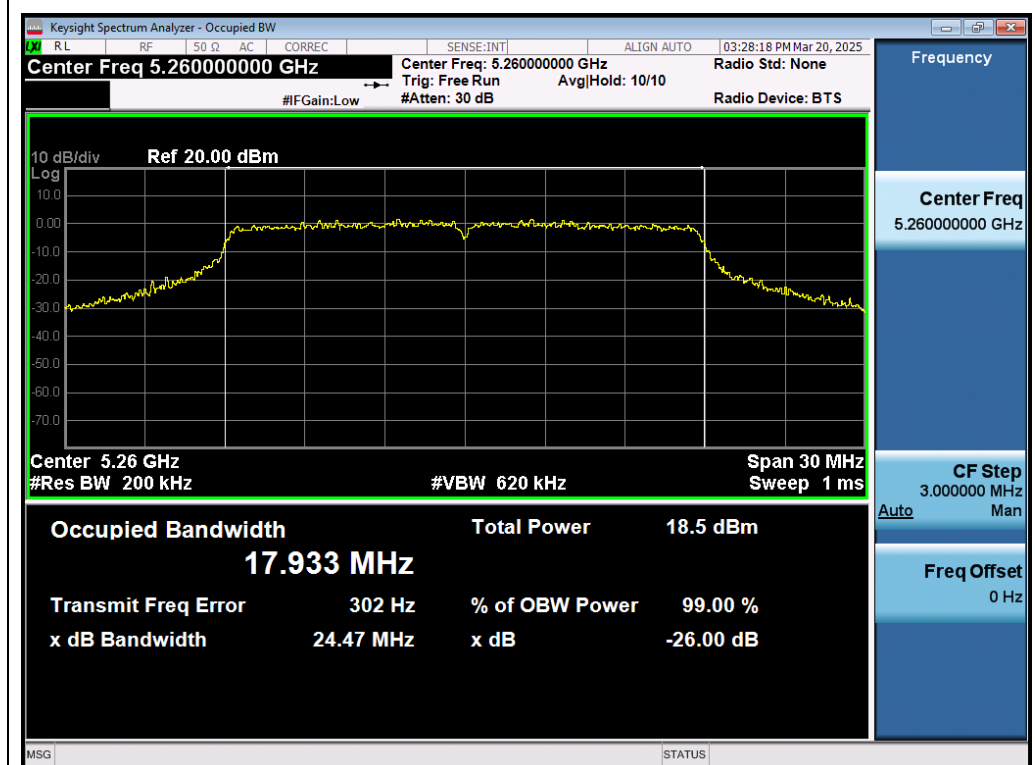
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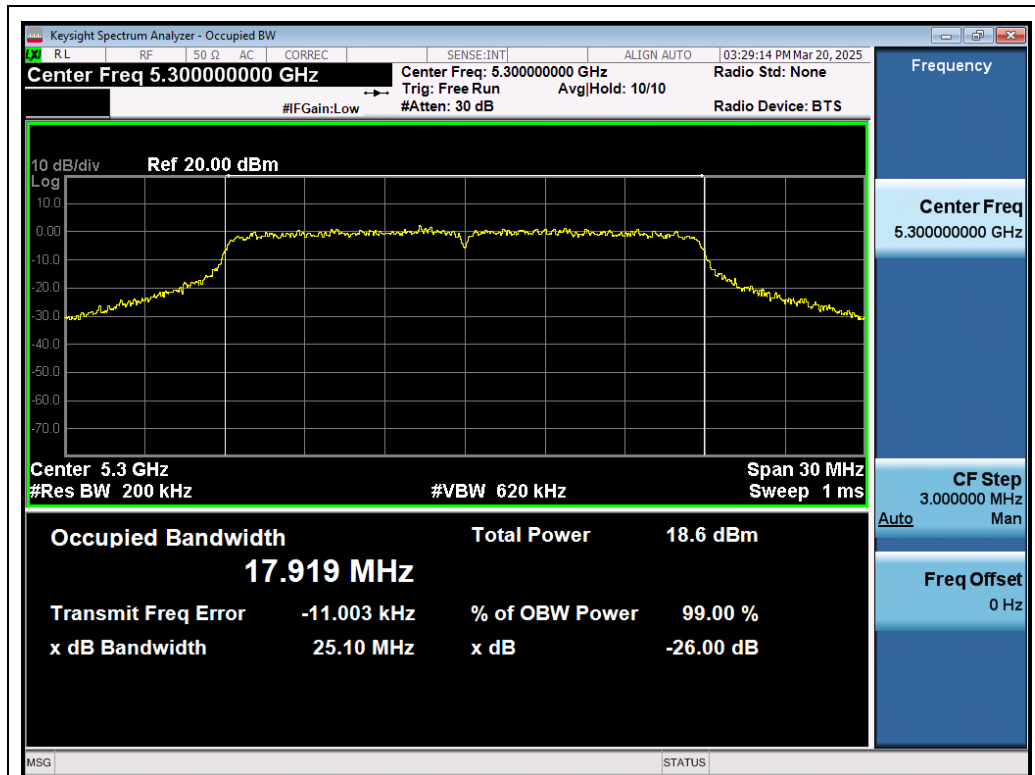
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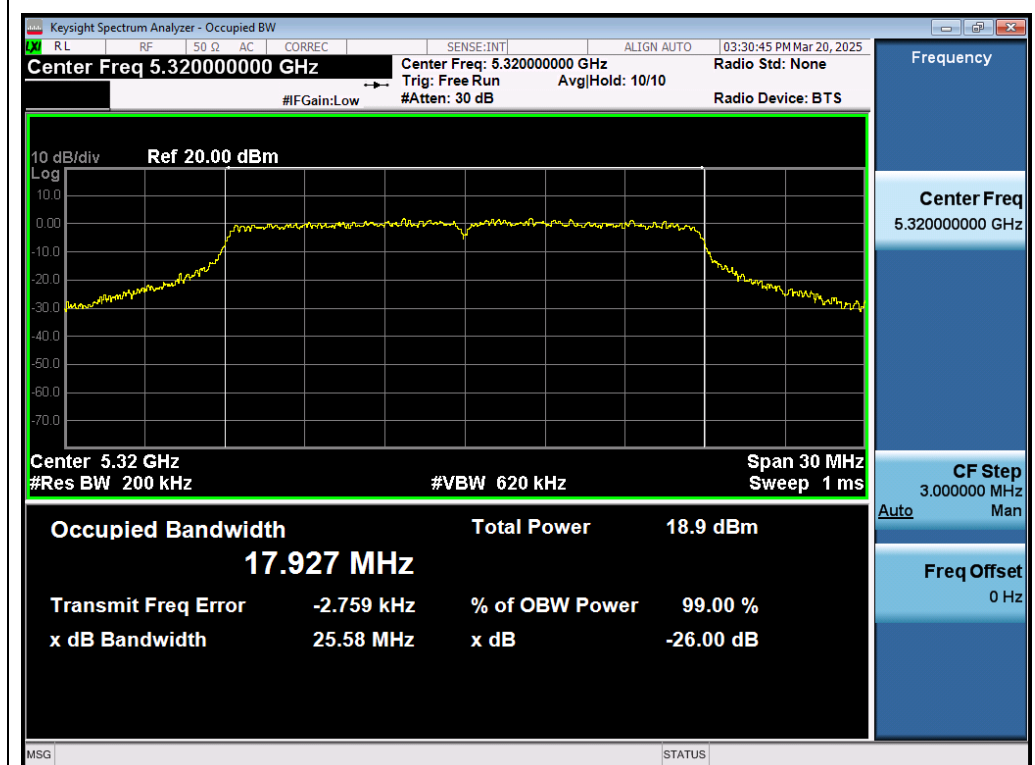
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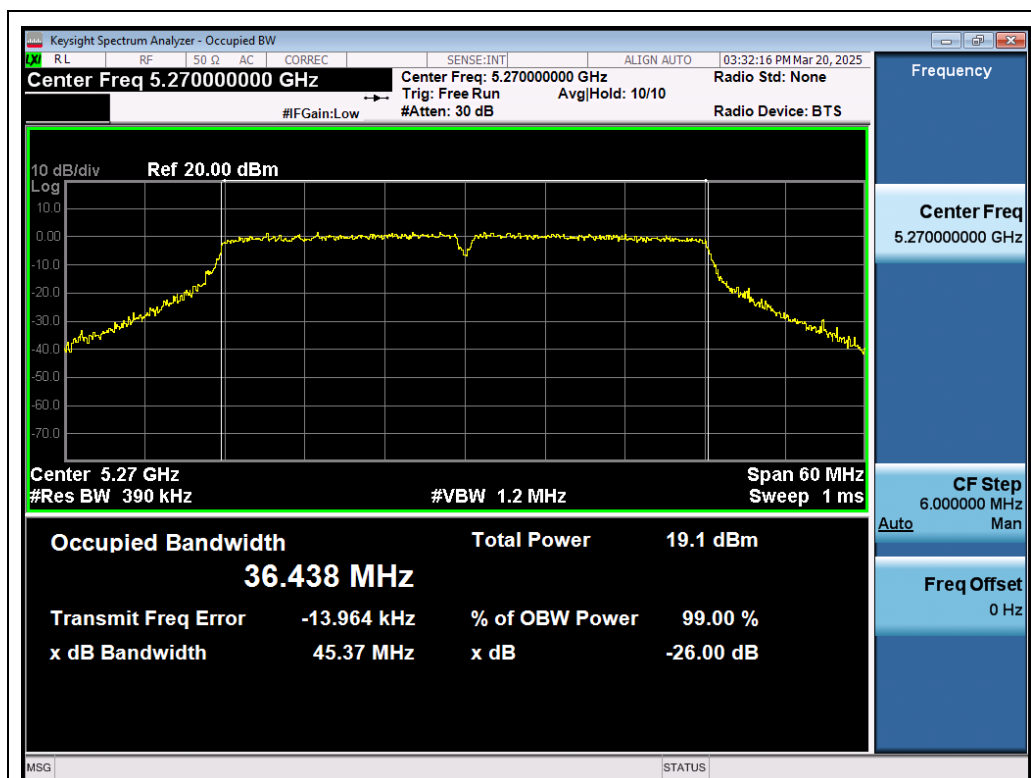
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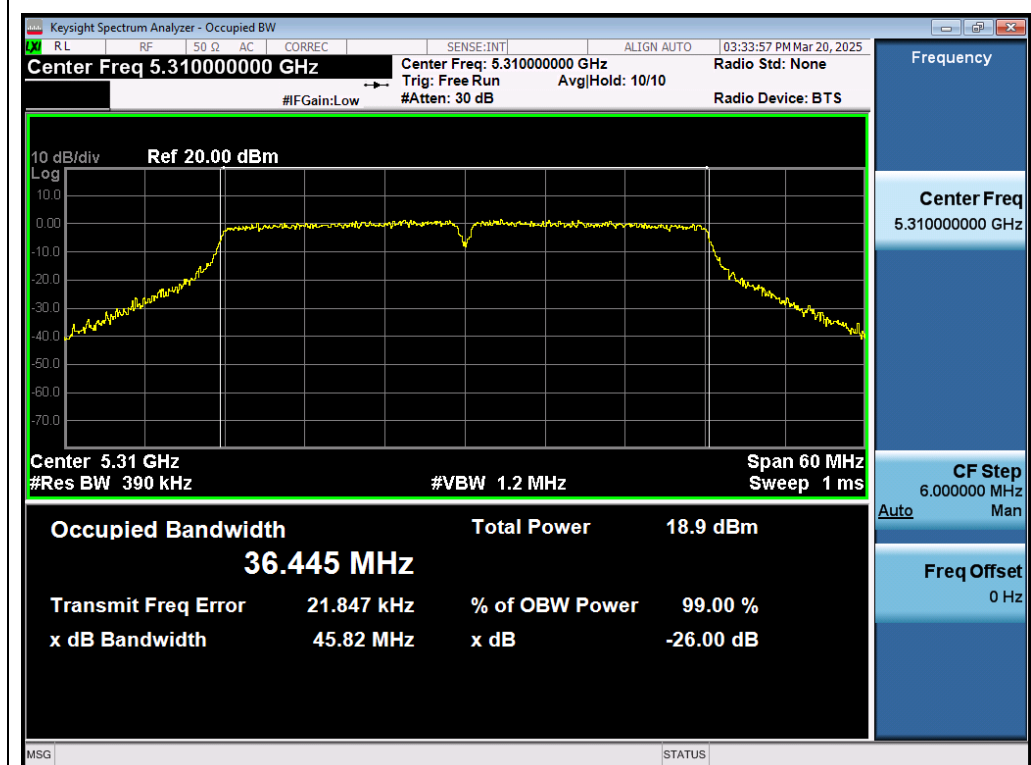
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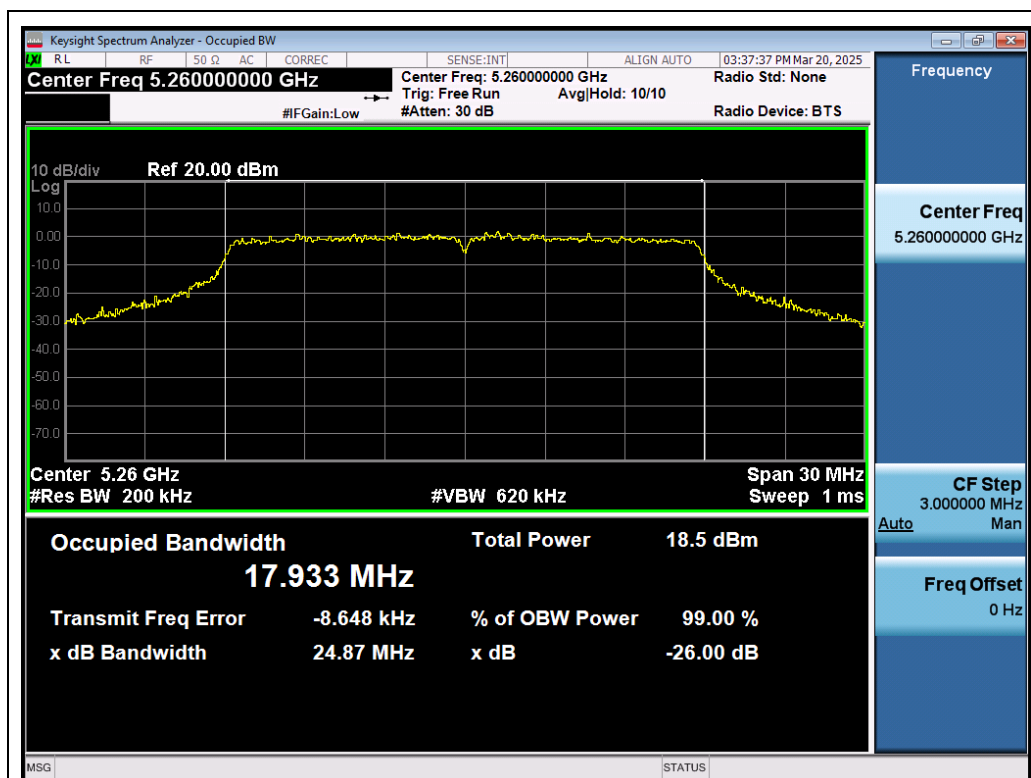
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Test_Graph_802.11n40_ANT1_5270_MCS0_OBW



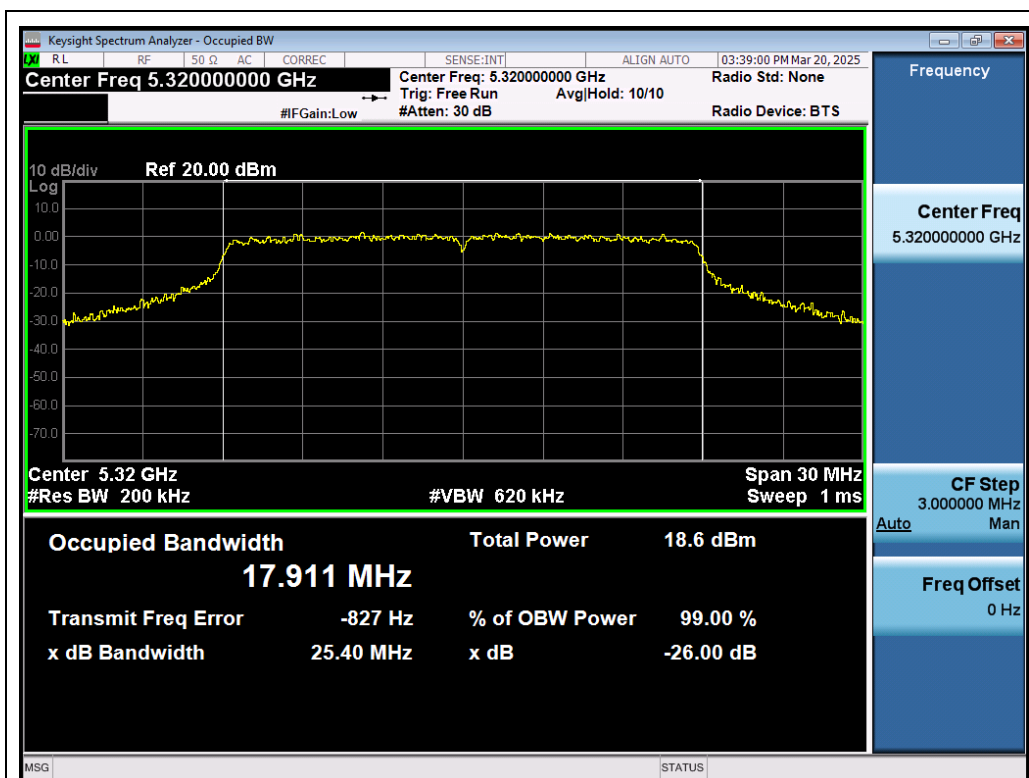
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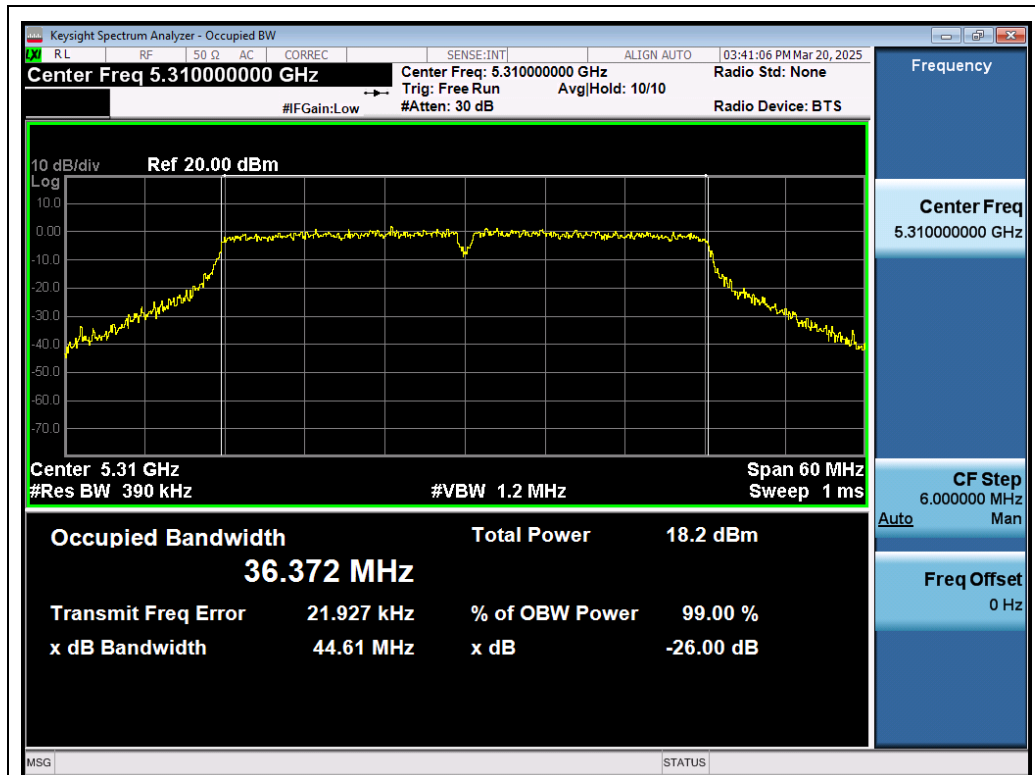
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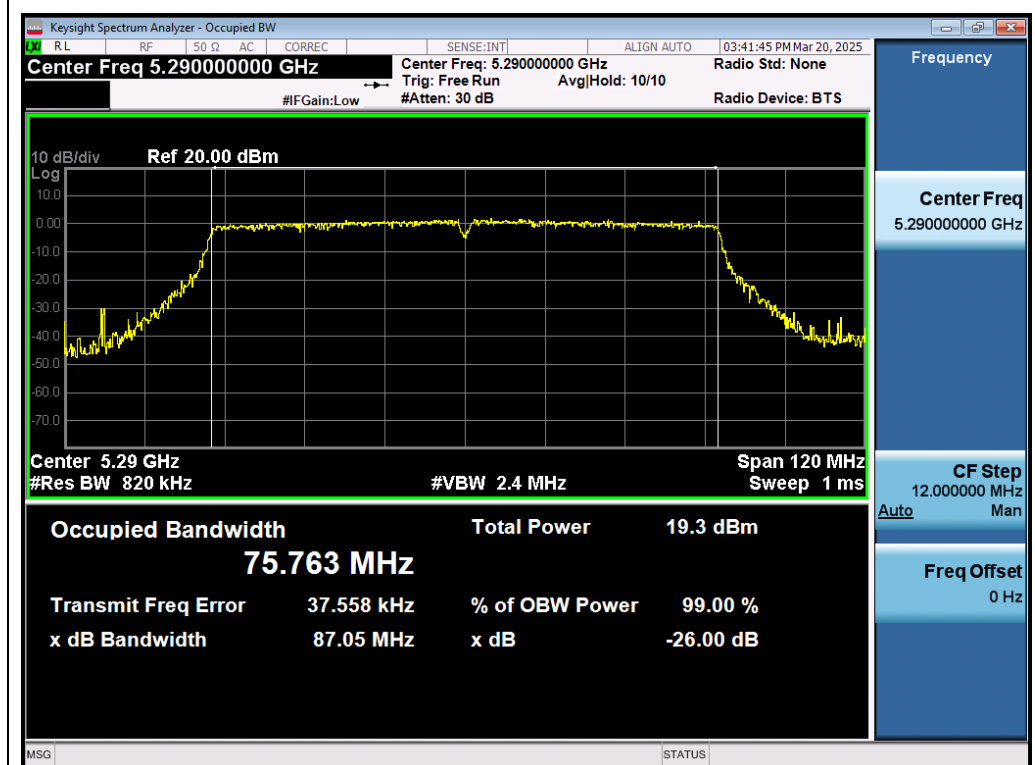
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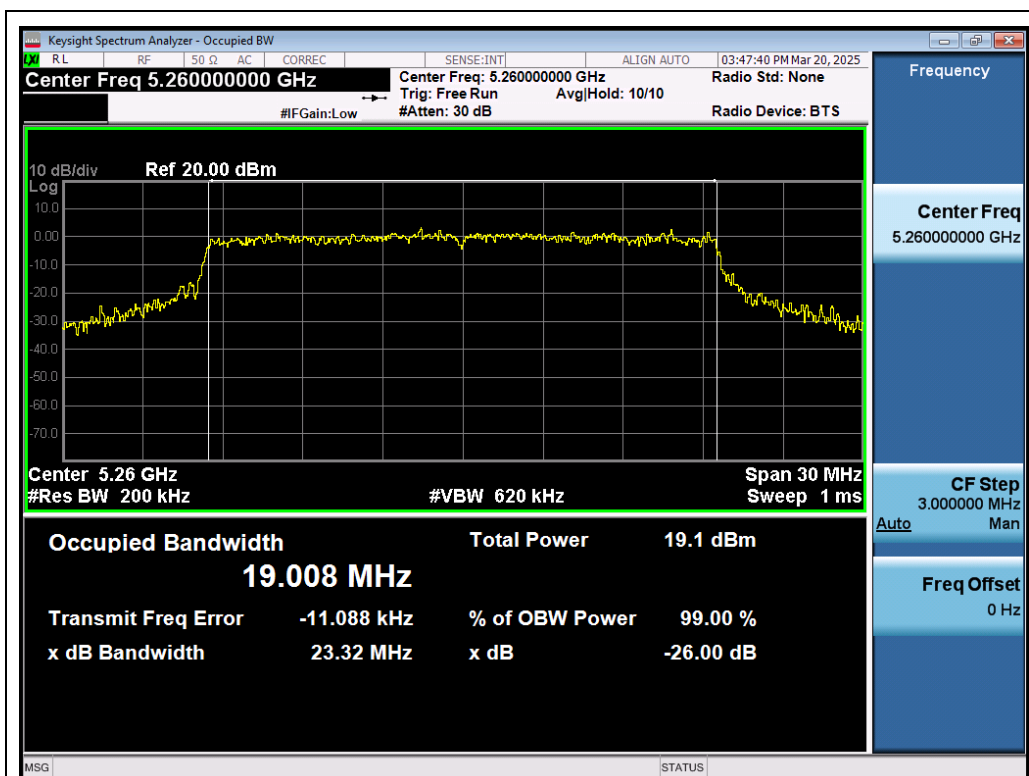
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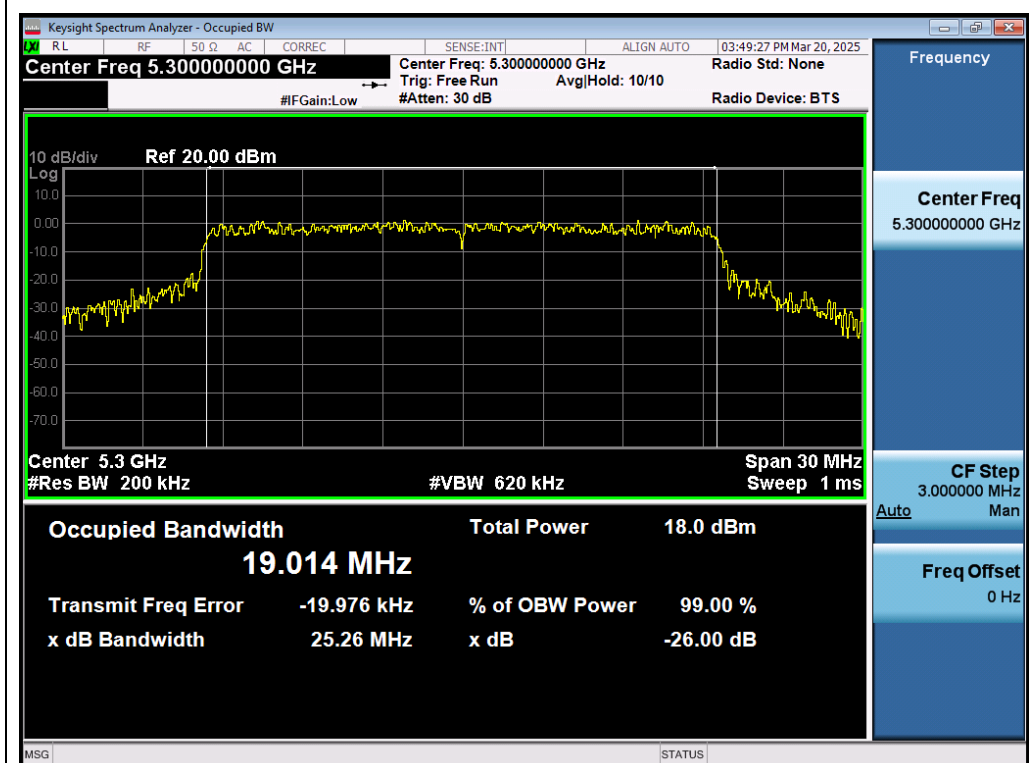
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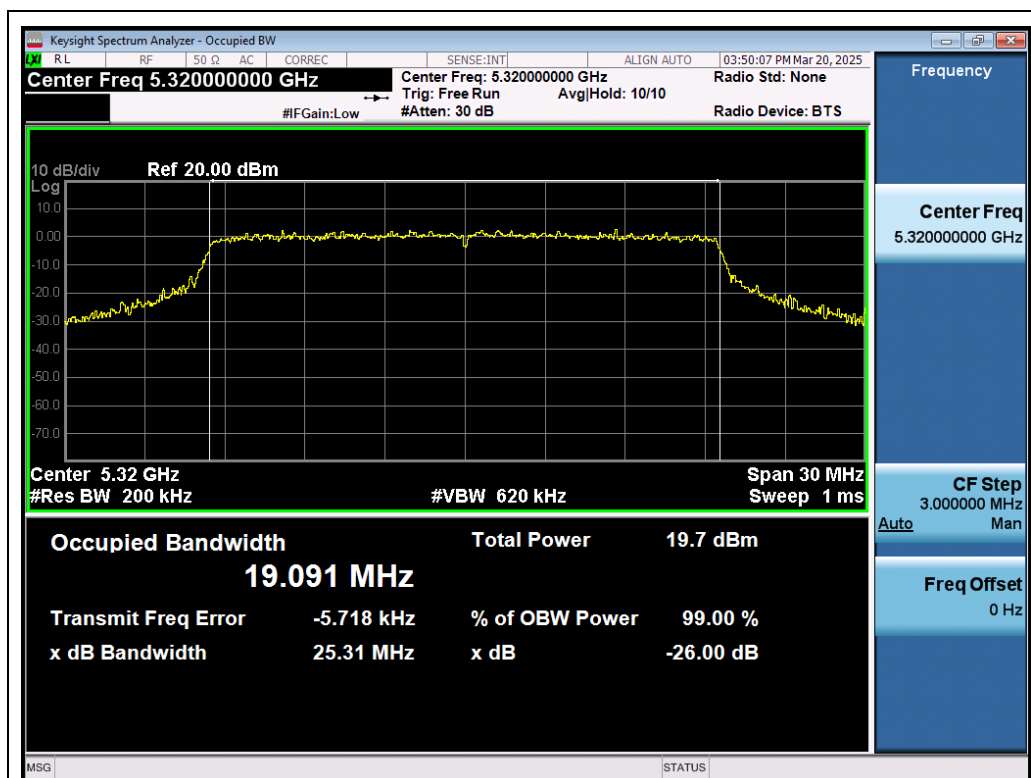
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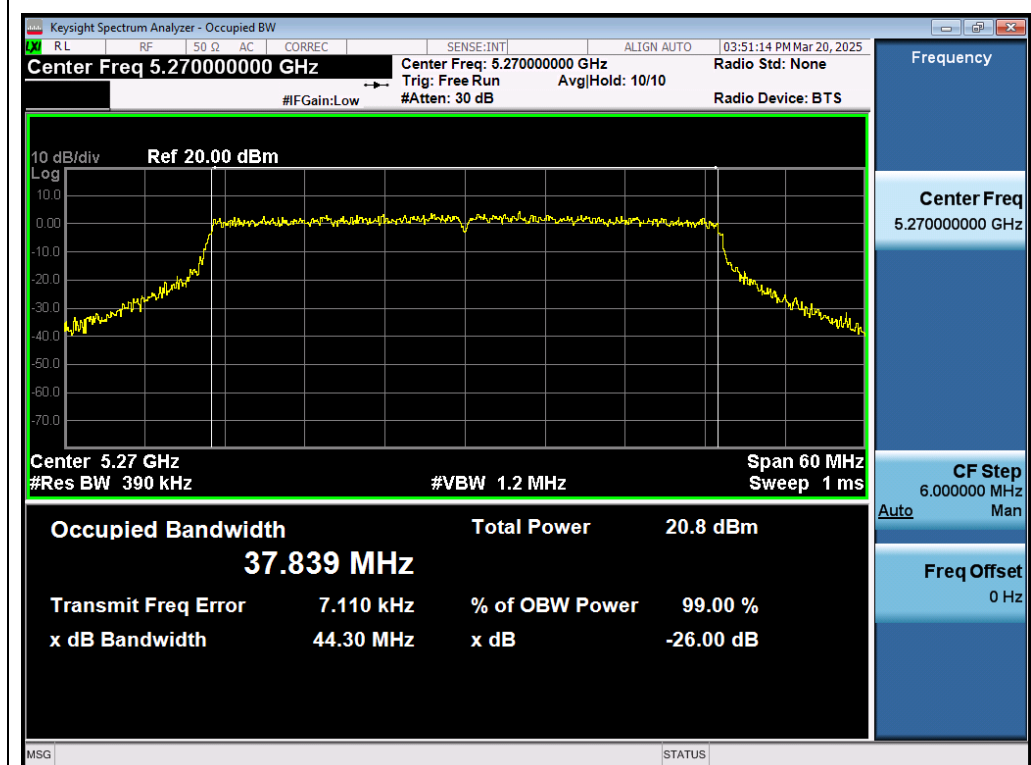
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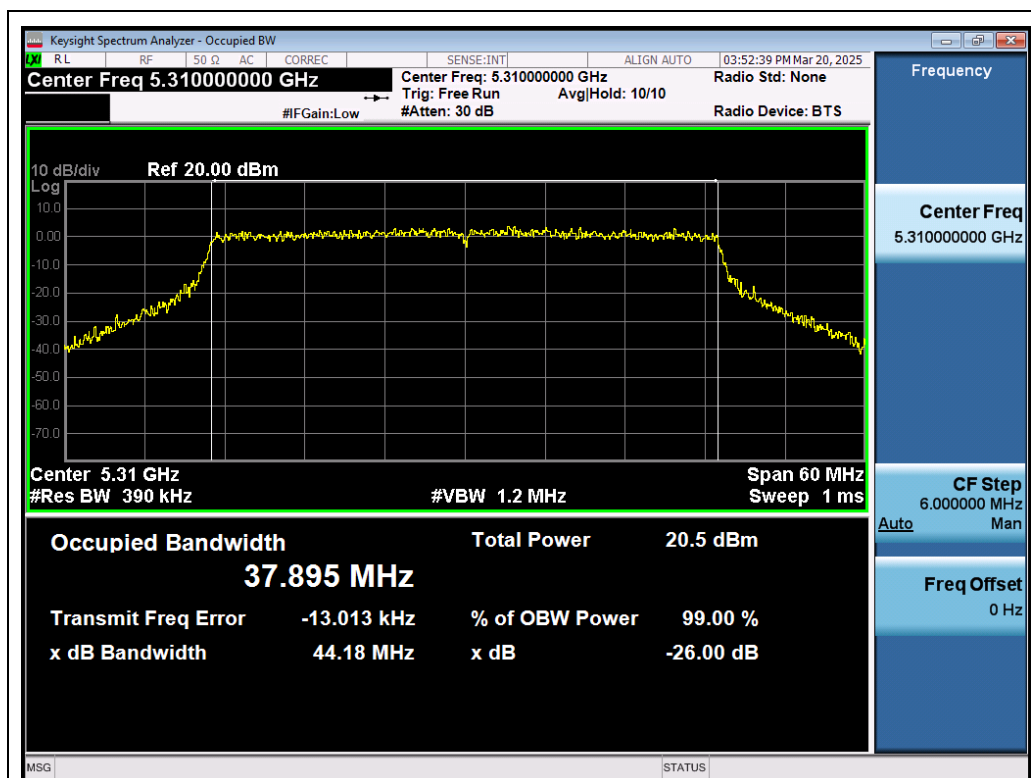
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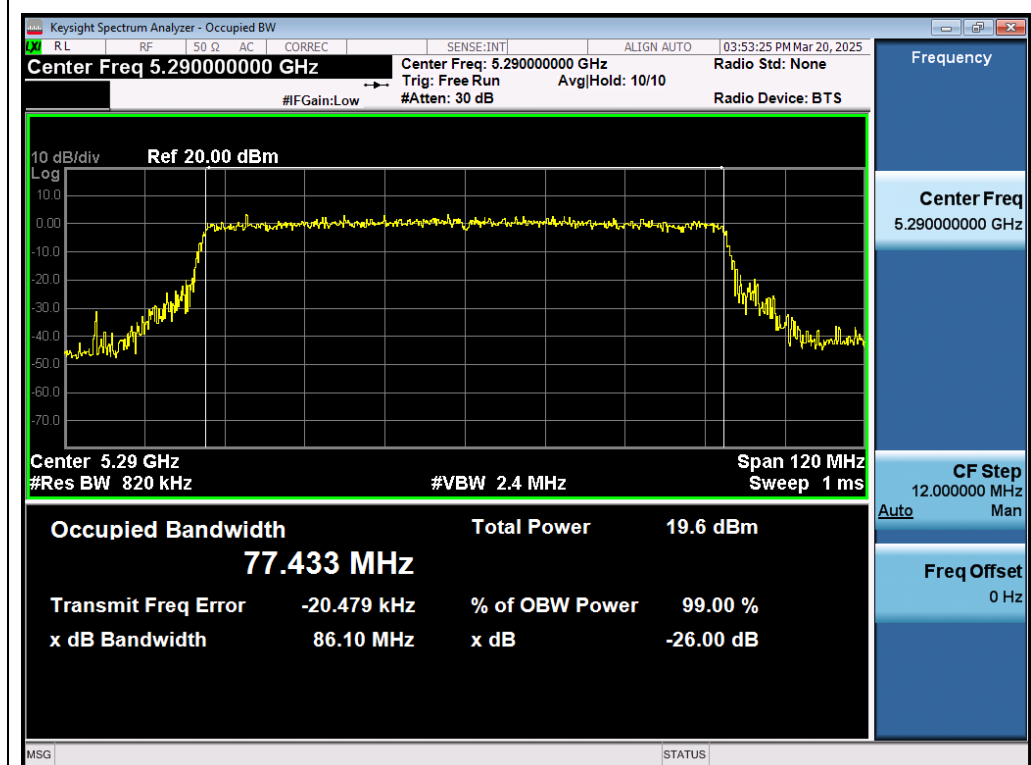
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Test_Graph_802.11ax40_ANT1_5270_MCS0_OBW

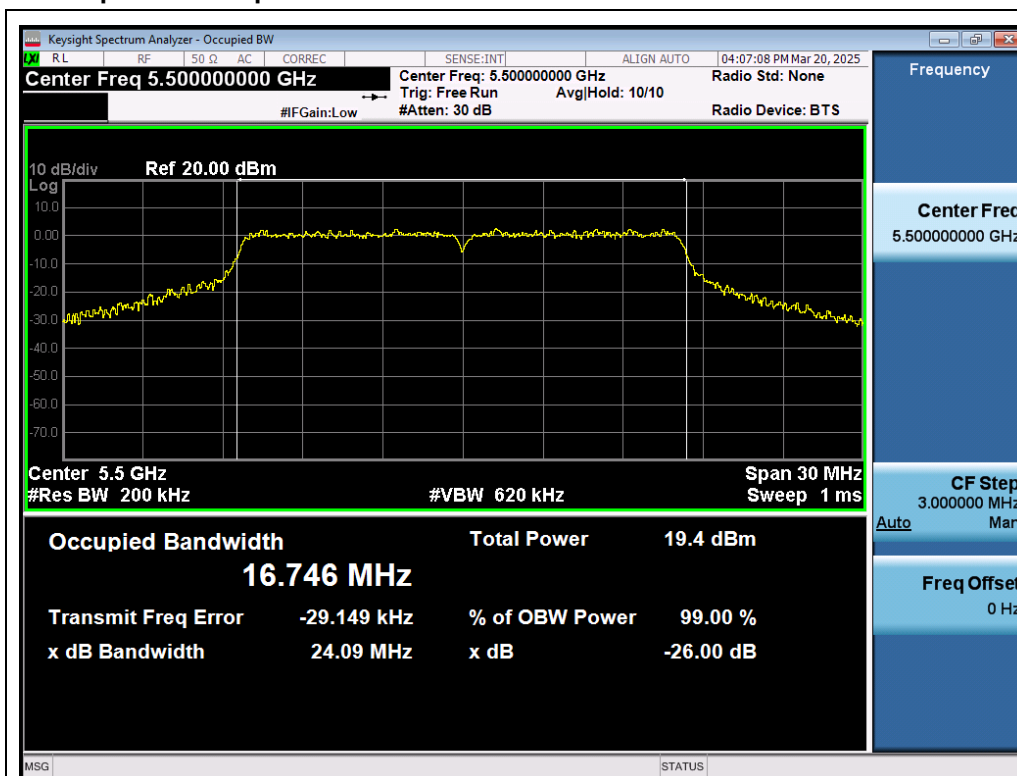


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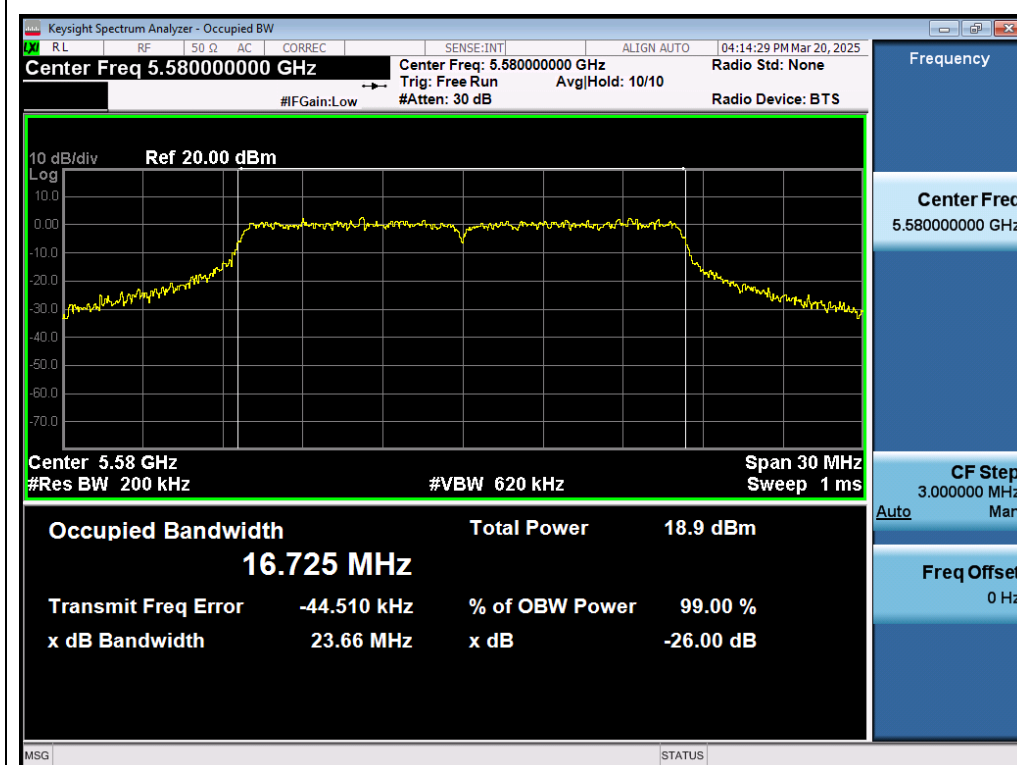


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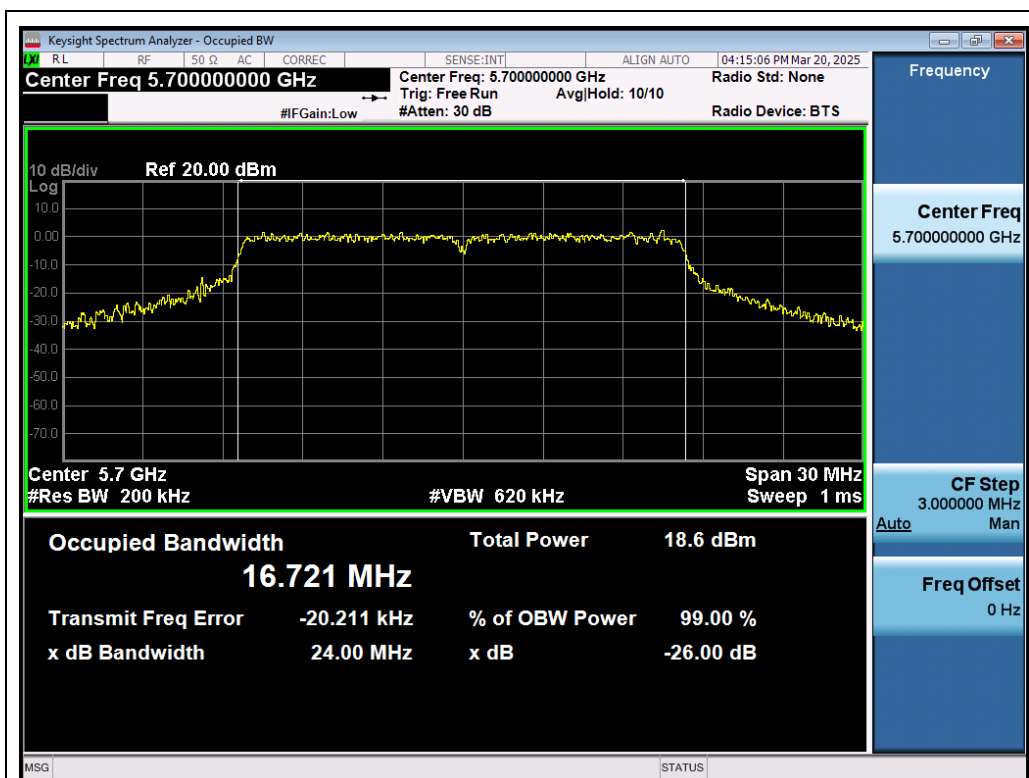
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.470-5.725 GHz



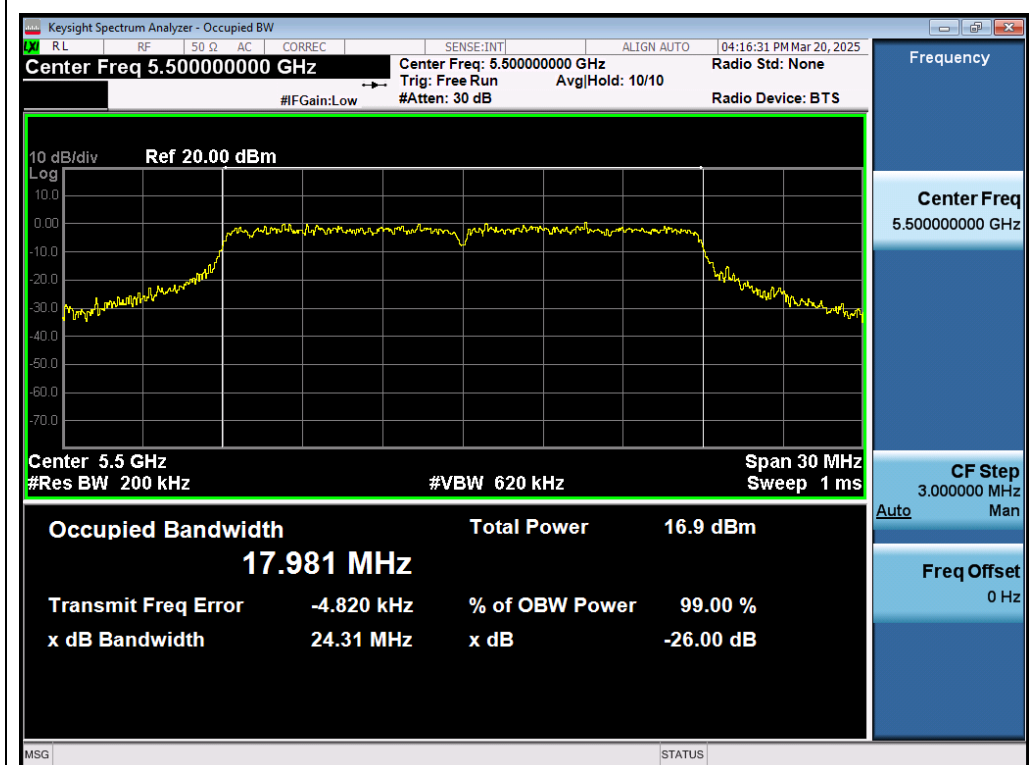
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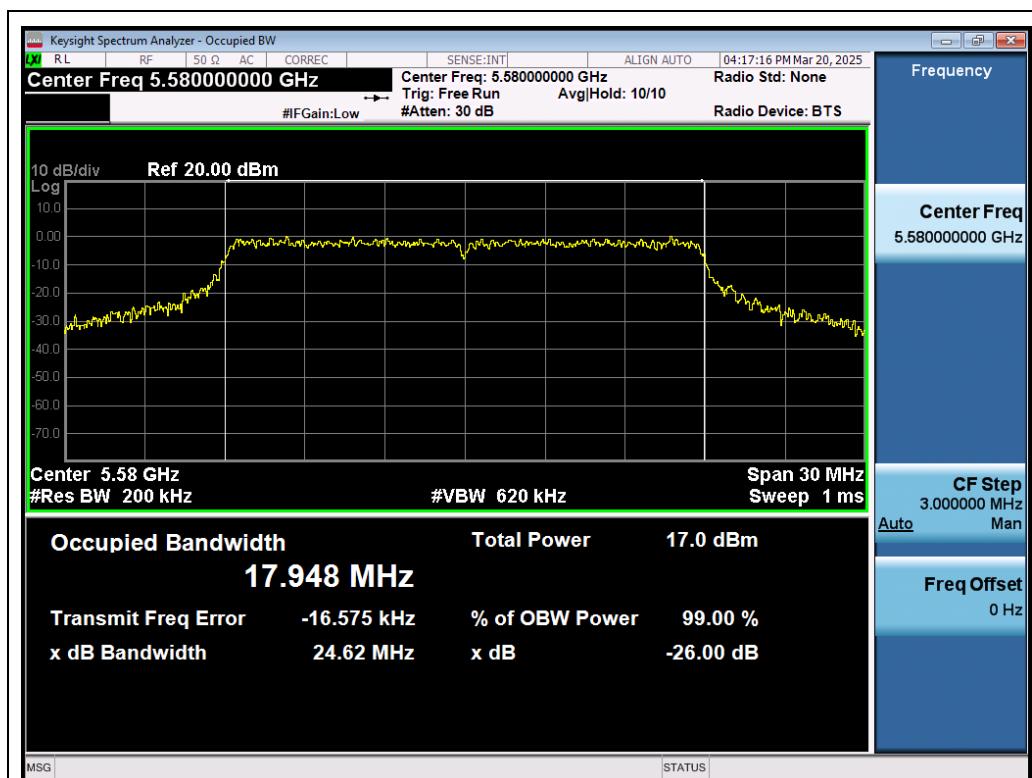
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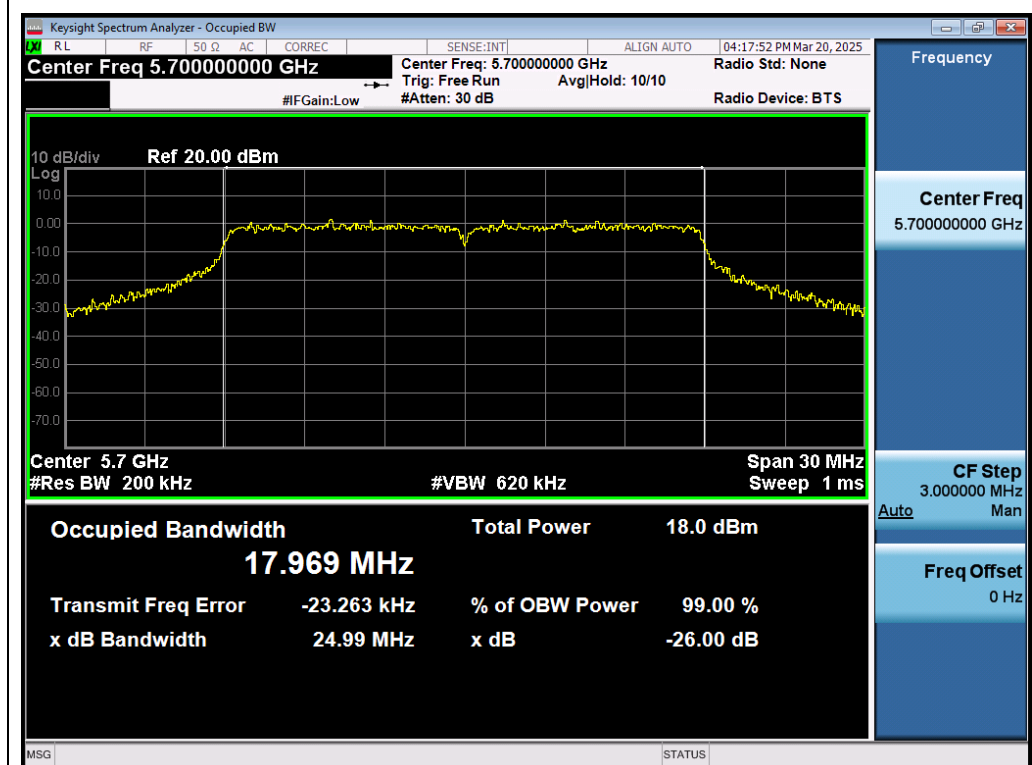
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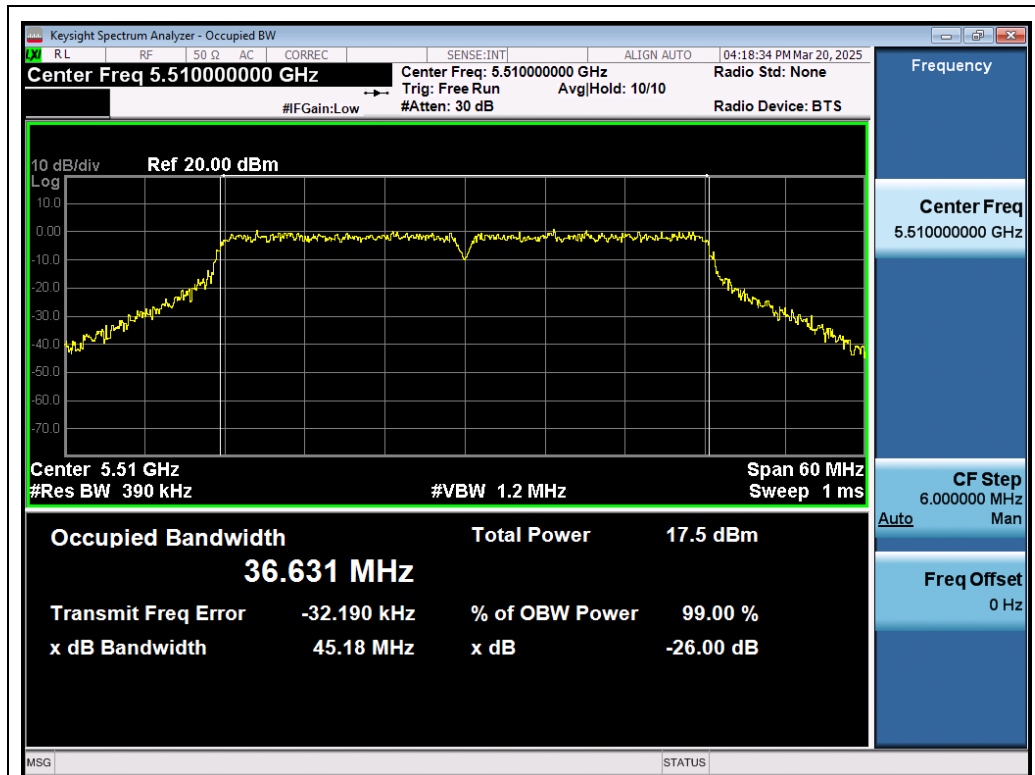
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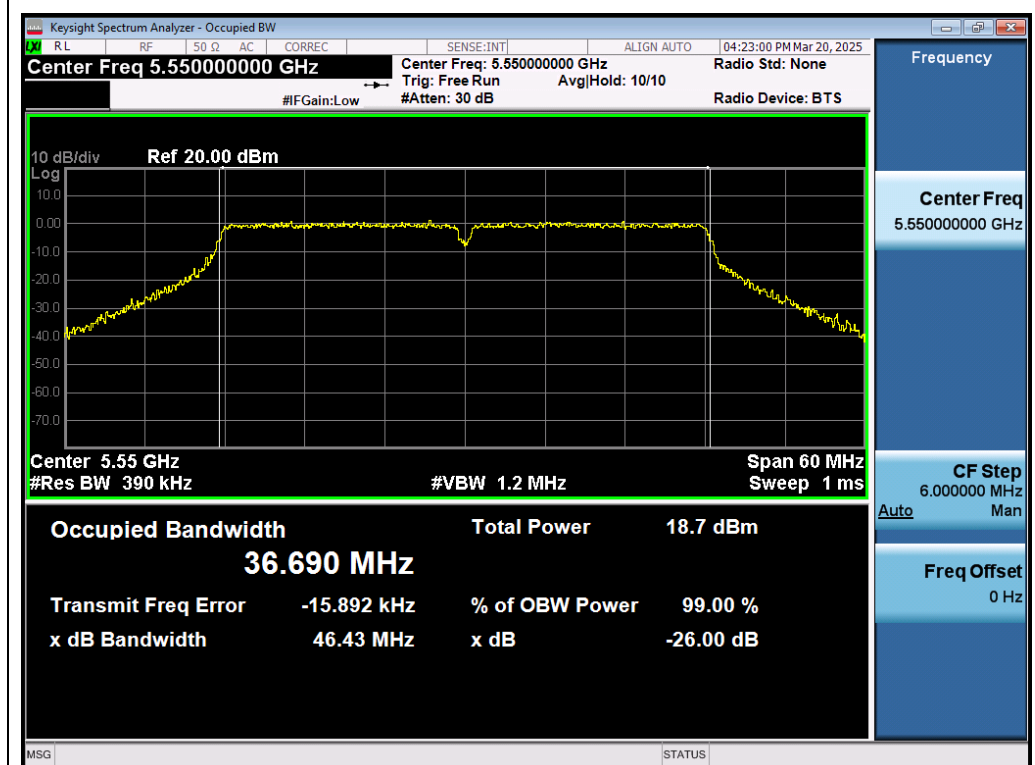
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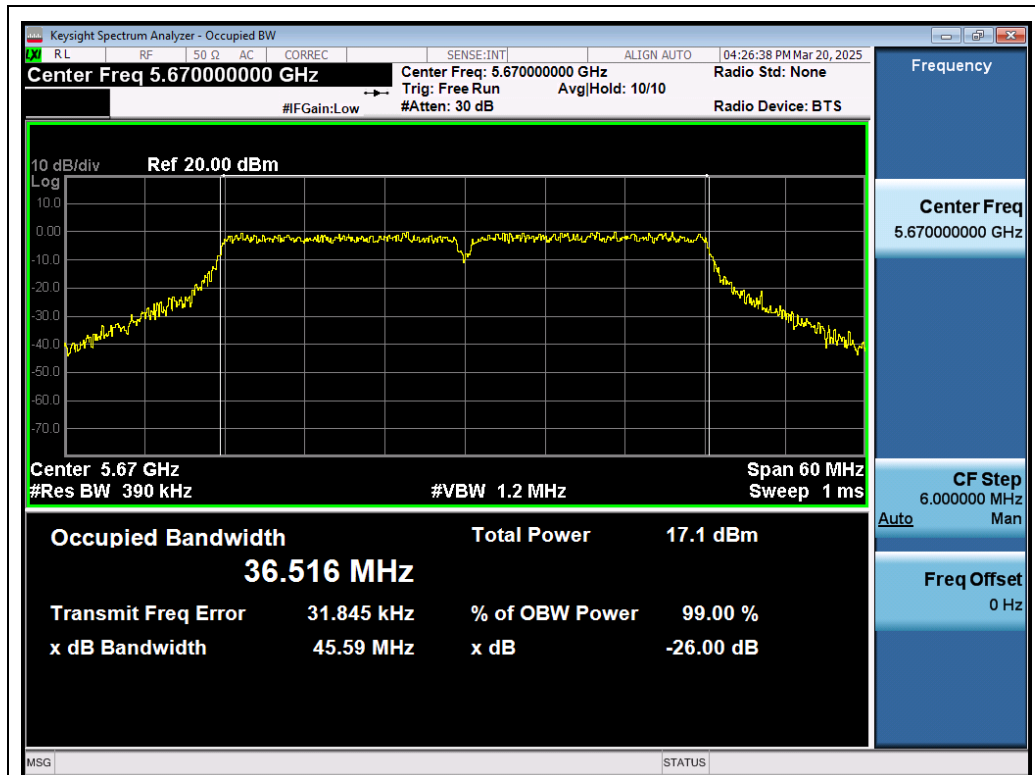
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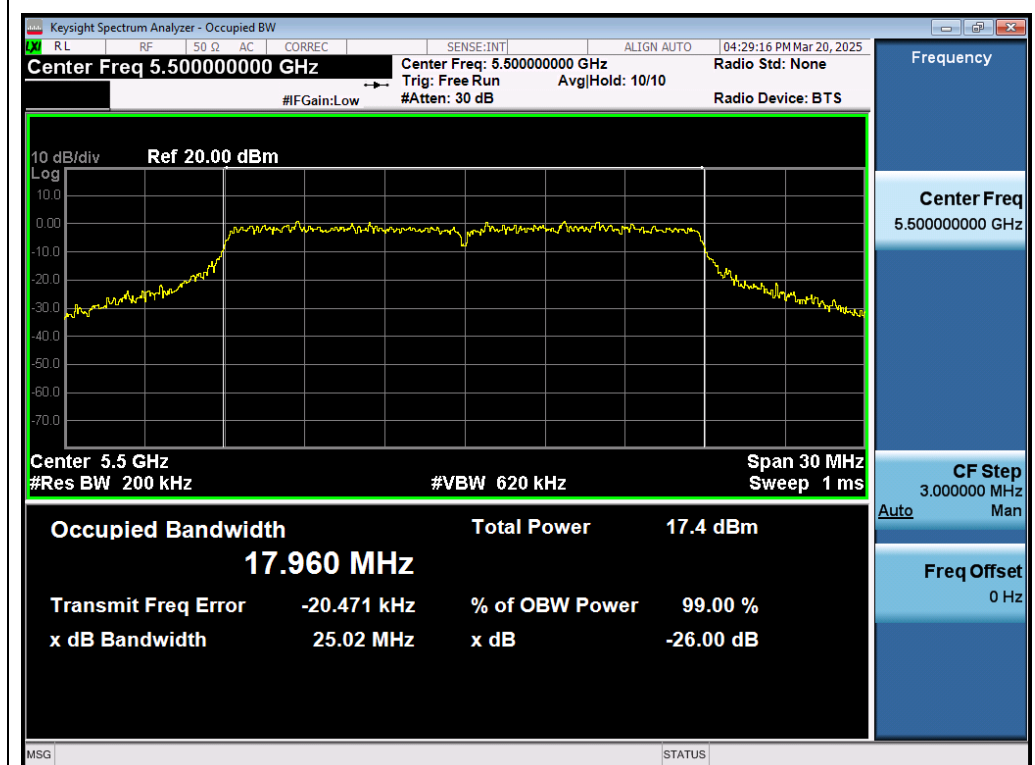
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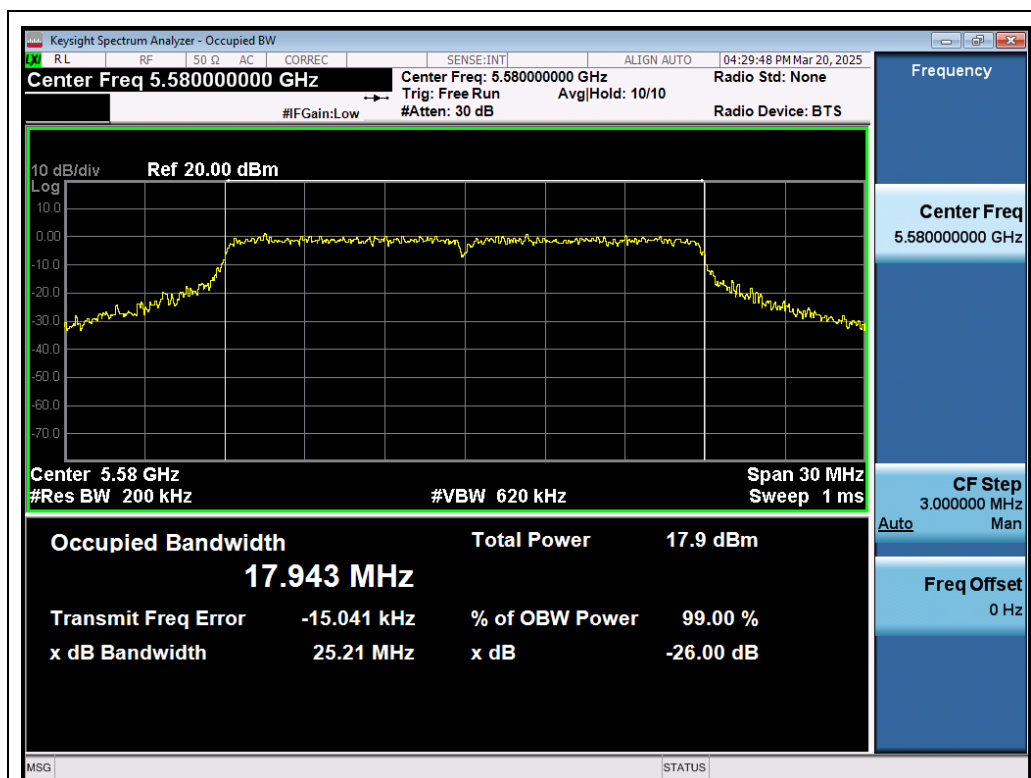
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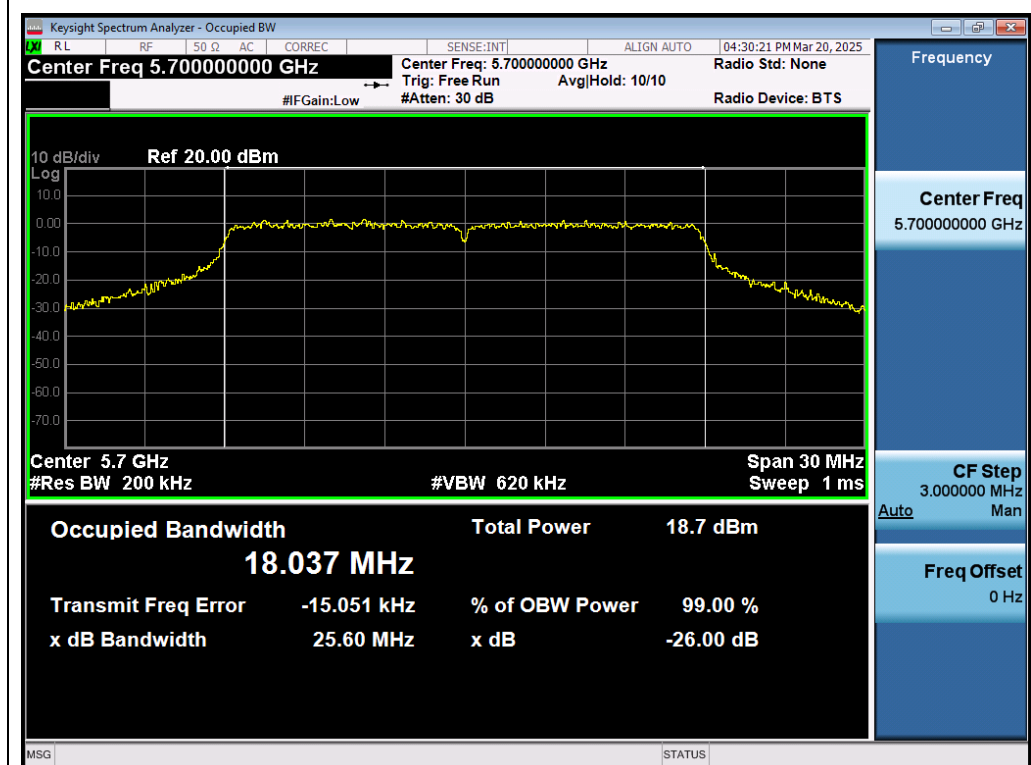
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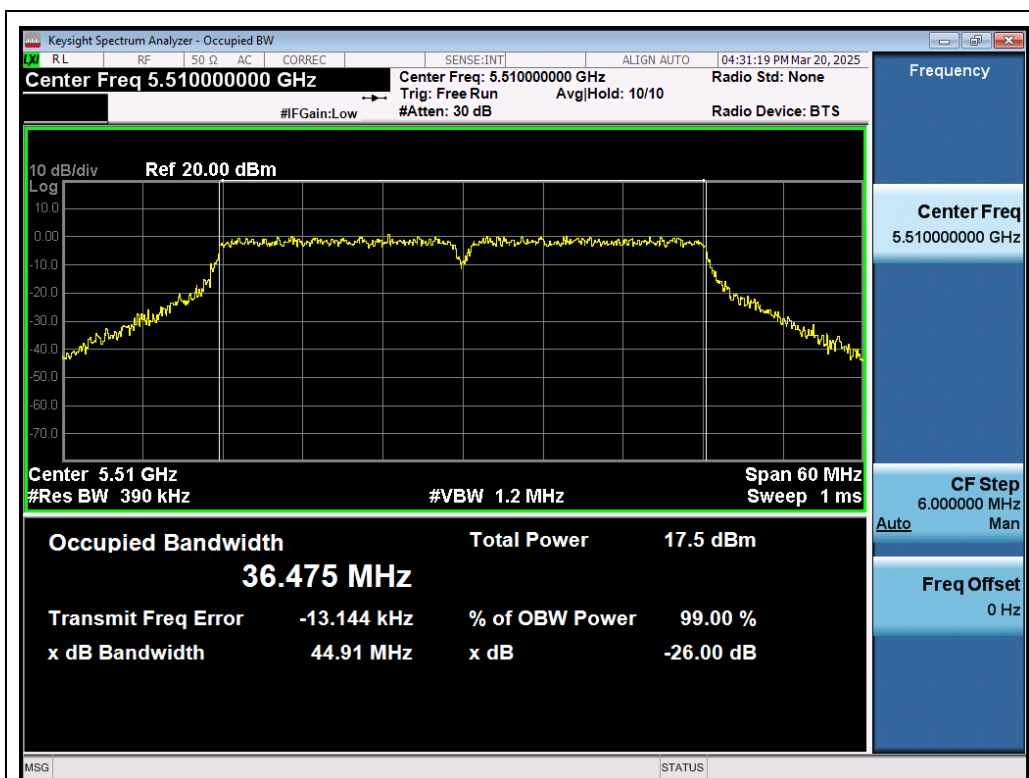
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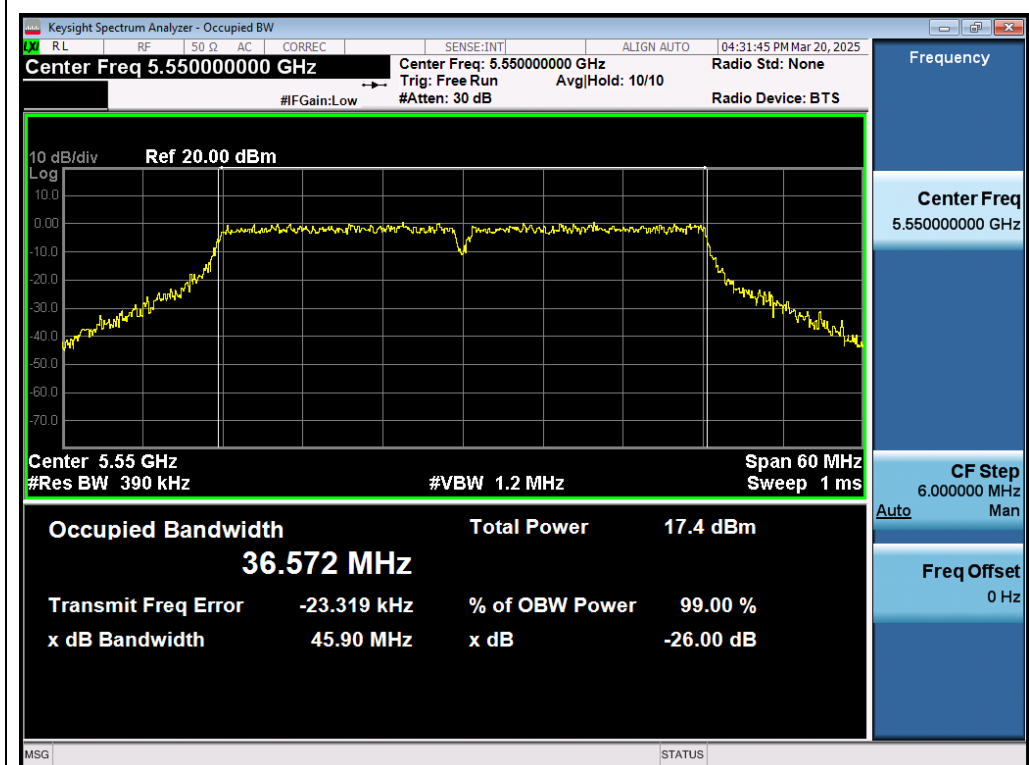
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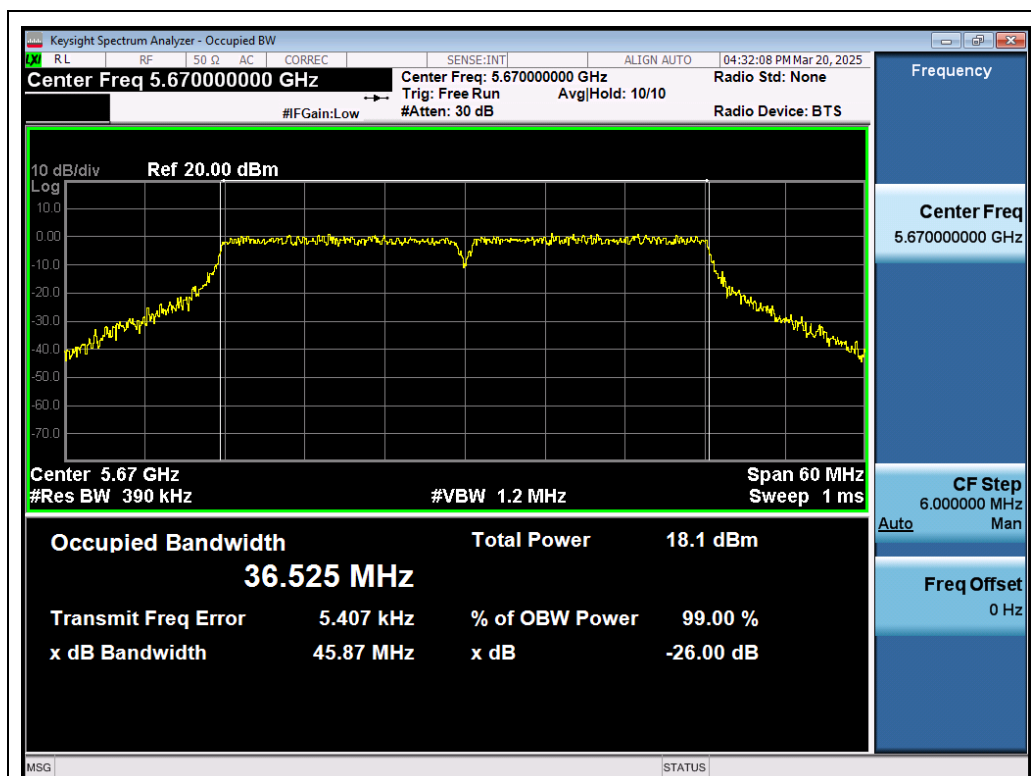
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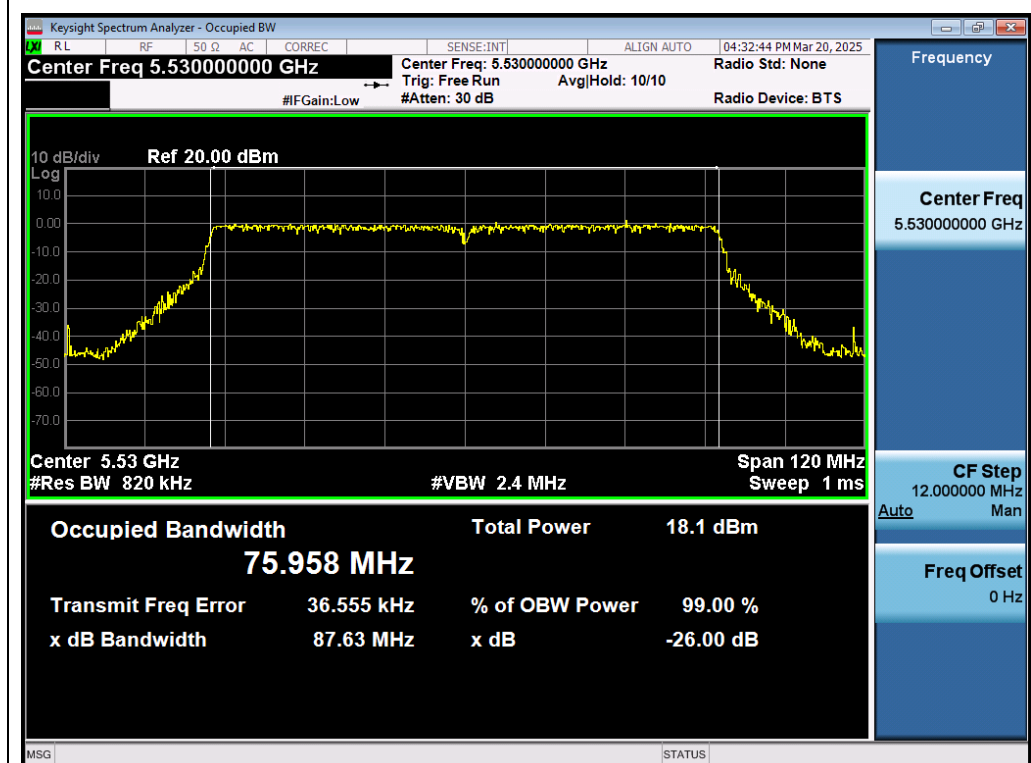
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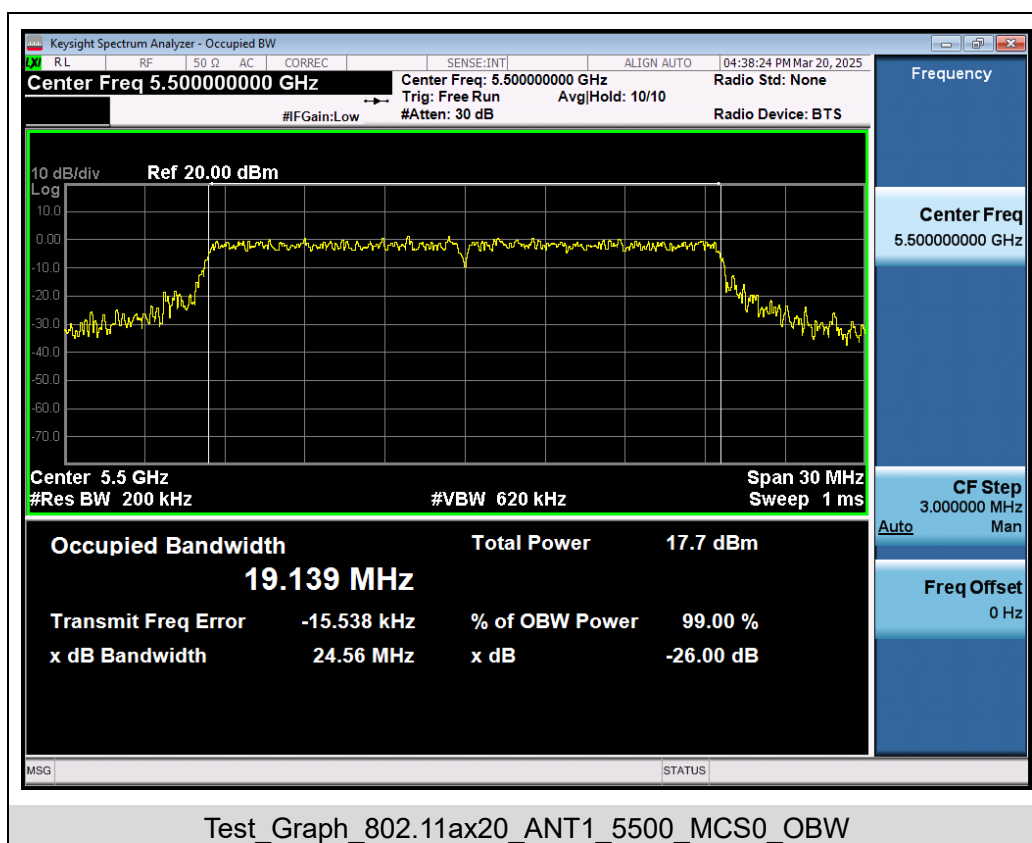
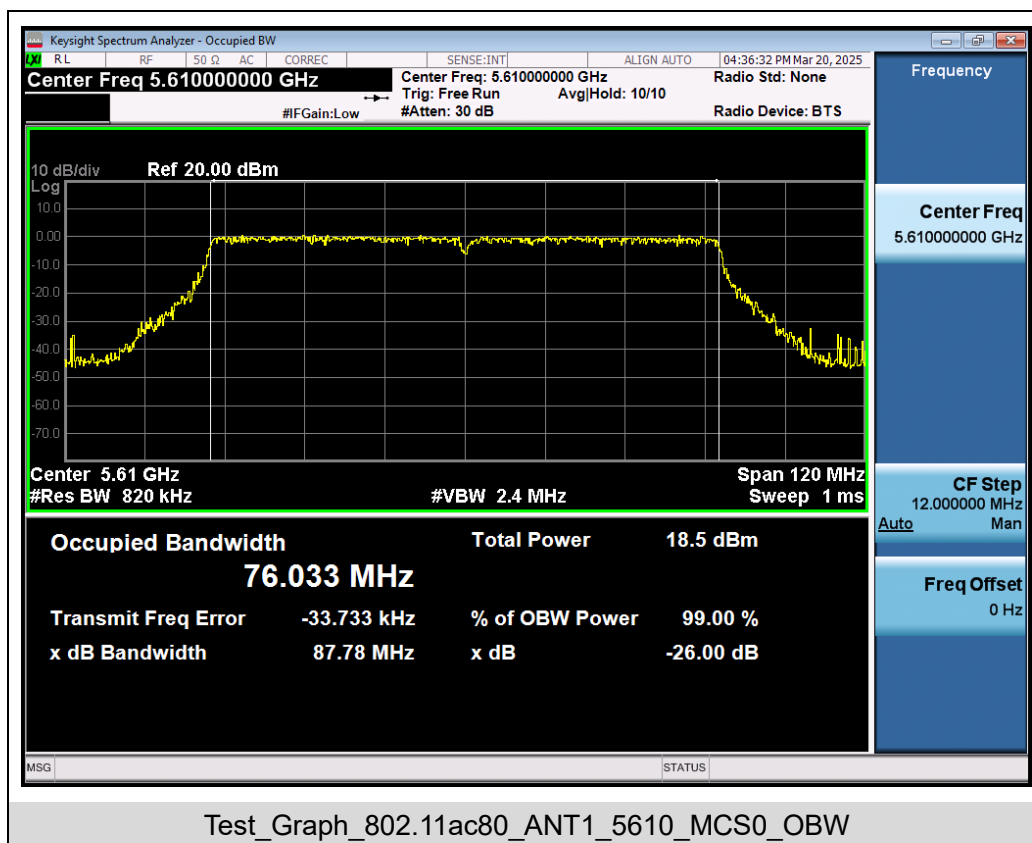
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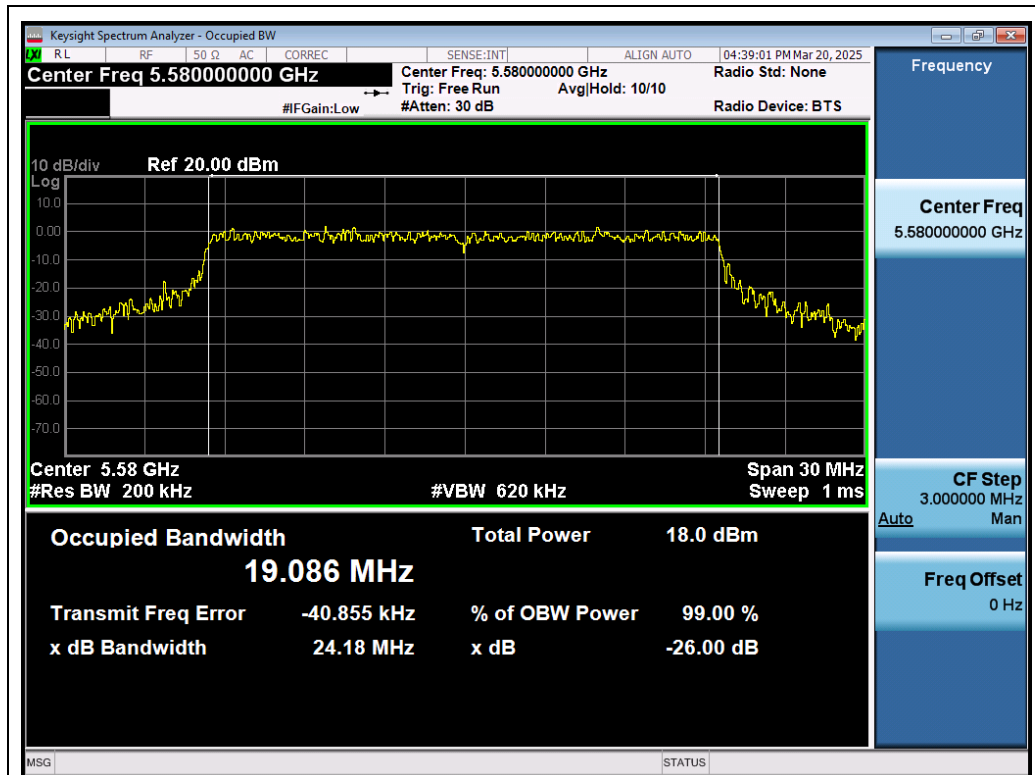


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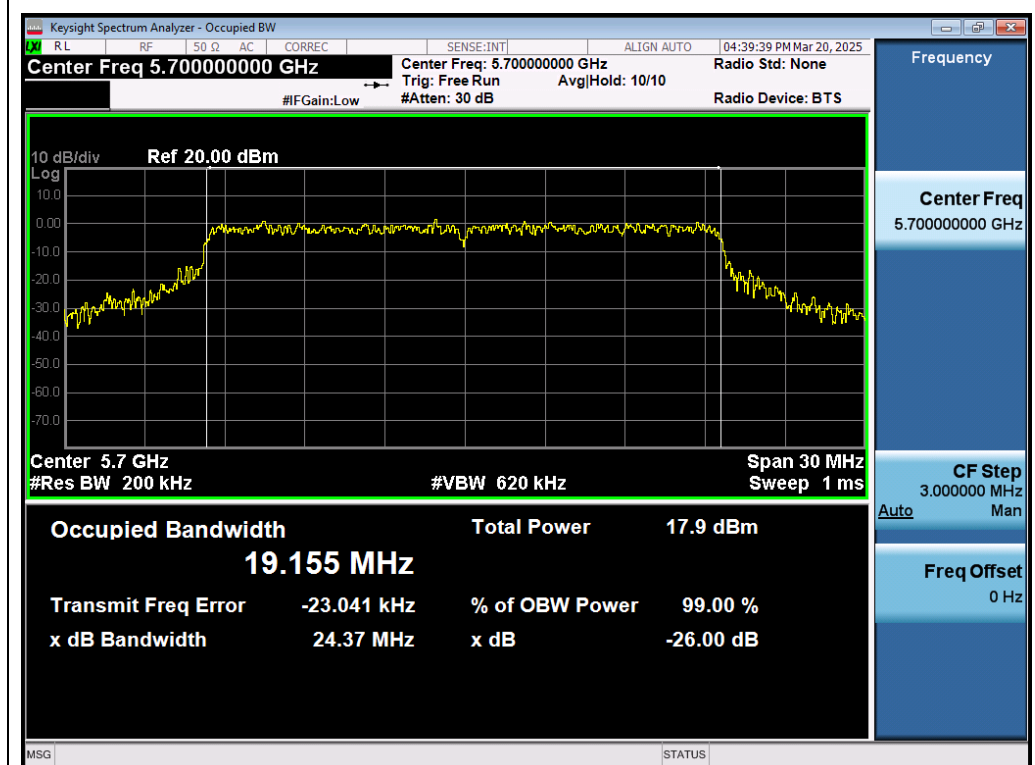


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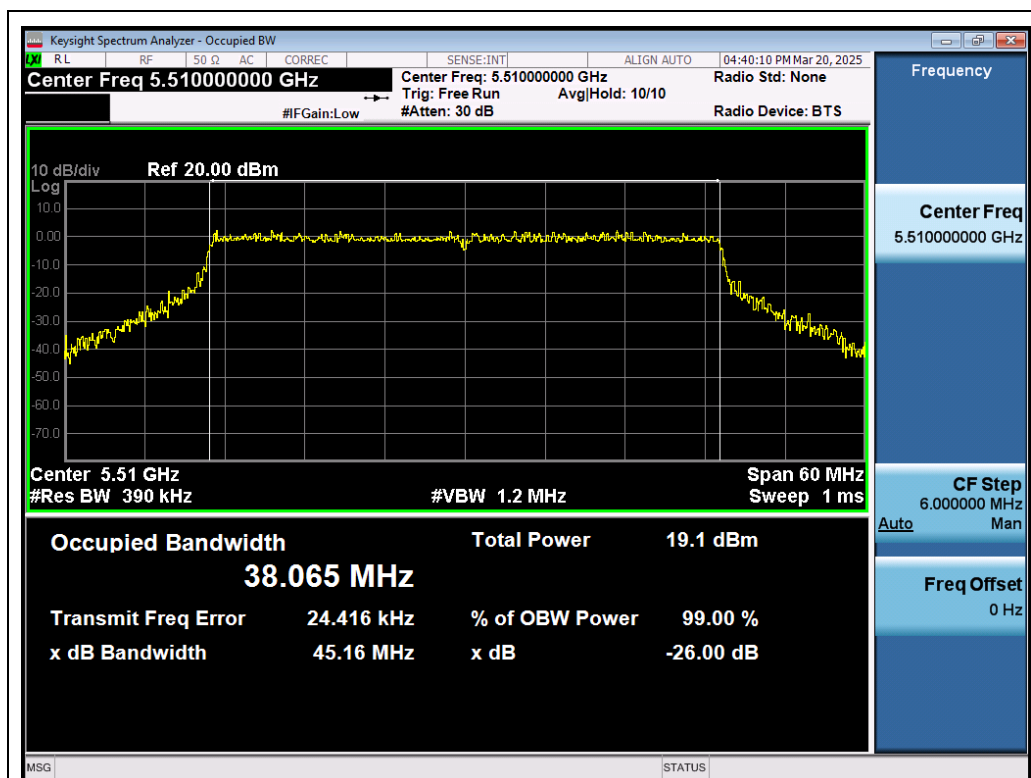




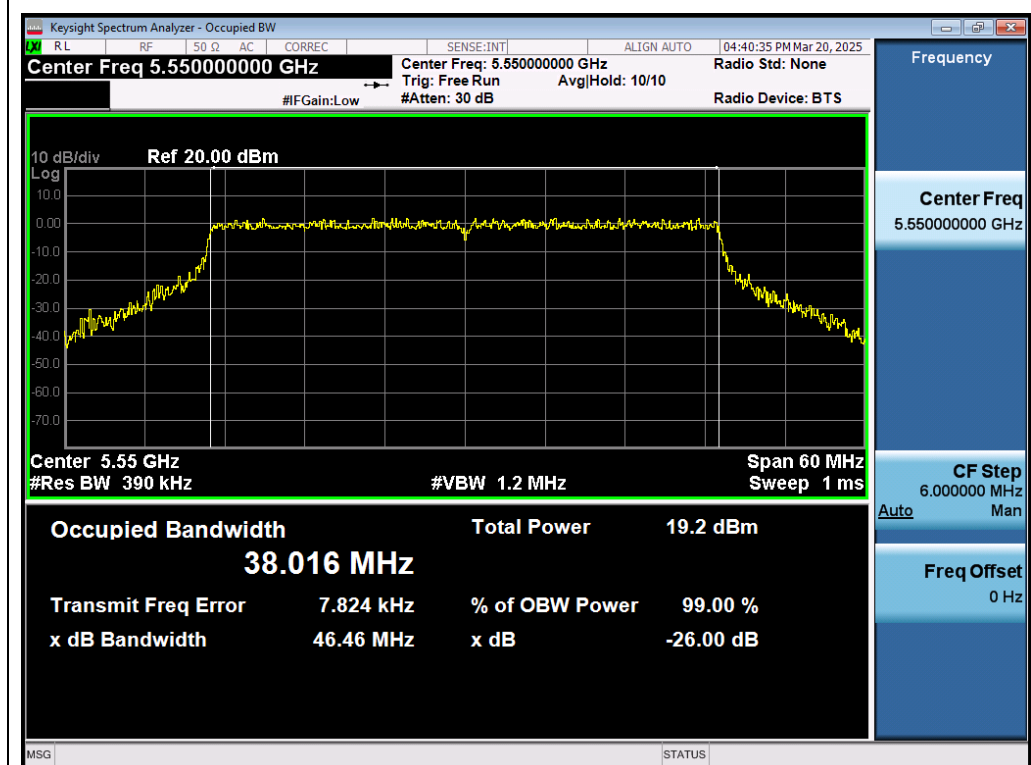
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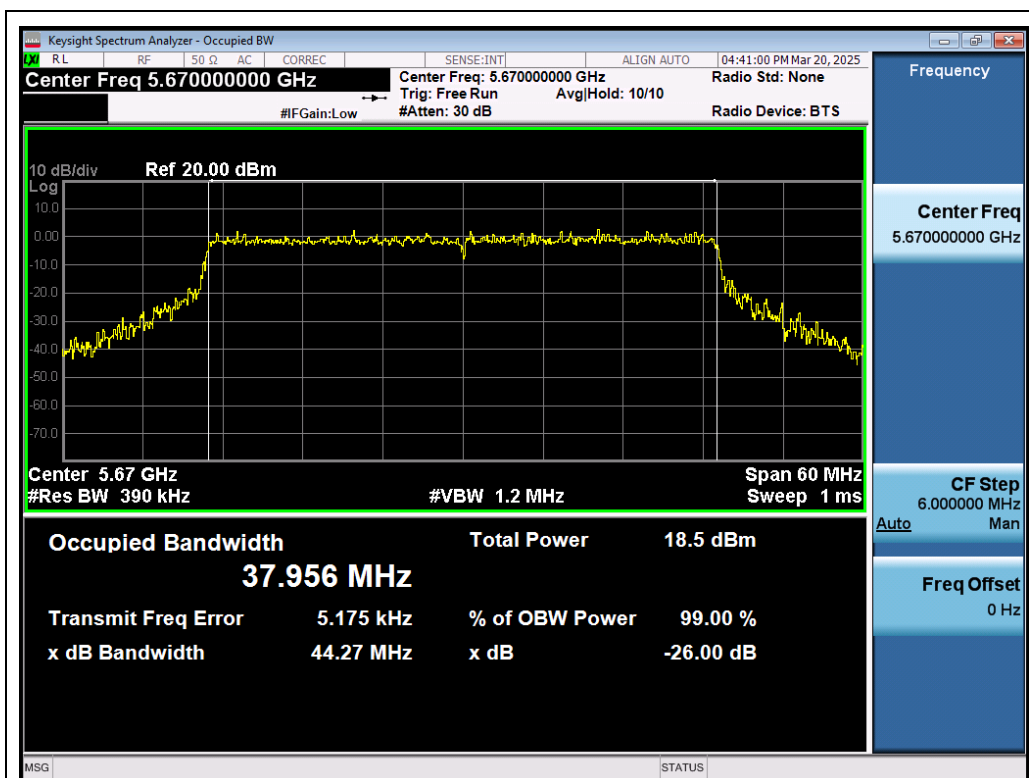
Test_Graph_802.11ax20_ANT1_5700_MCS0_OBW



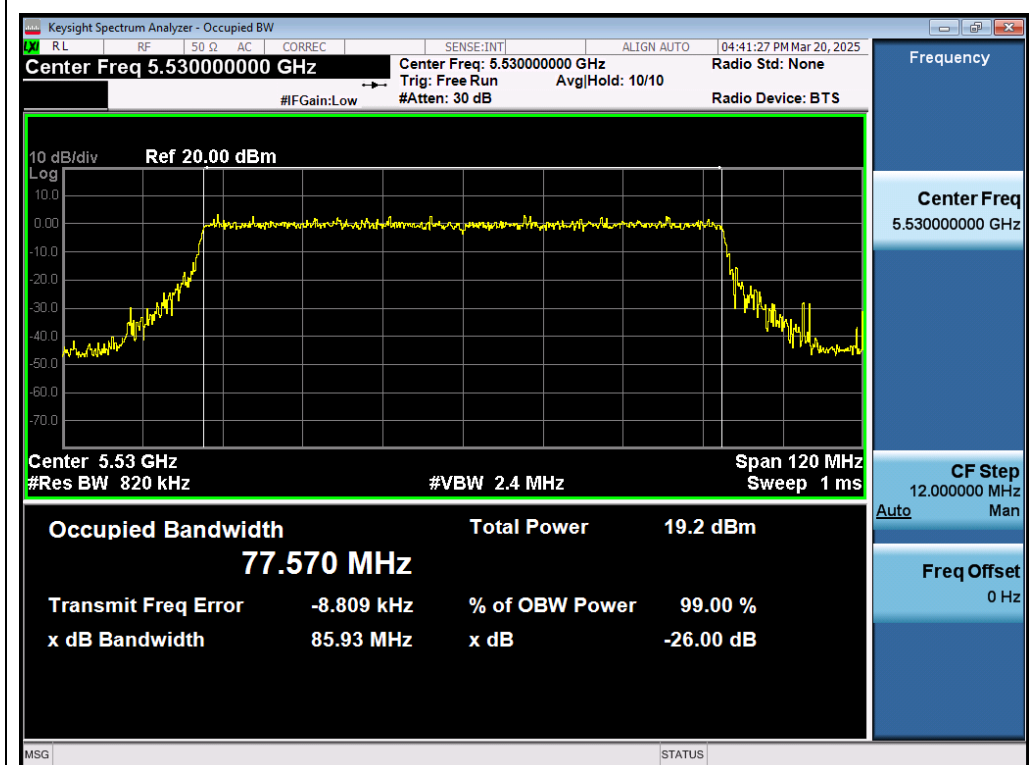
Test_Graph_802.11ax40_ANT1_5510_MCS0_OBW



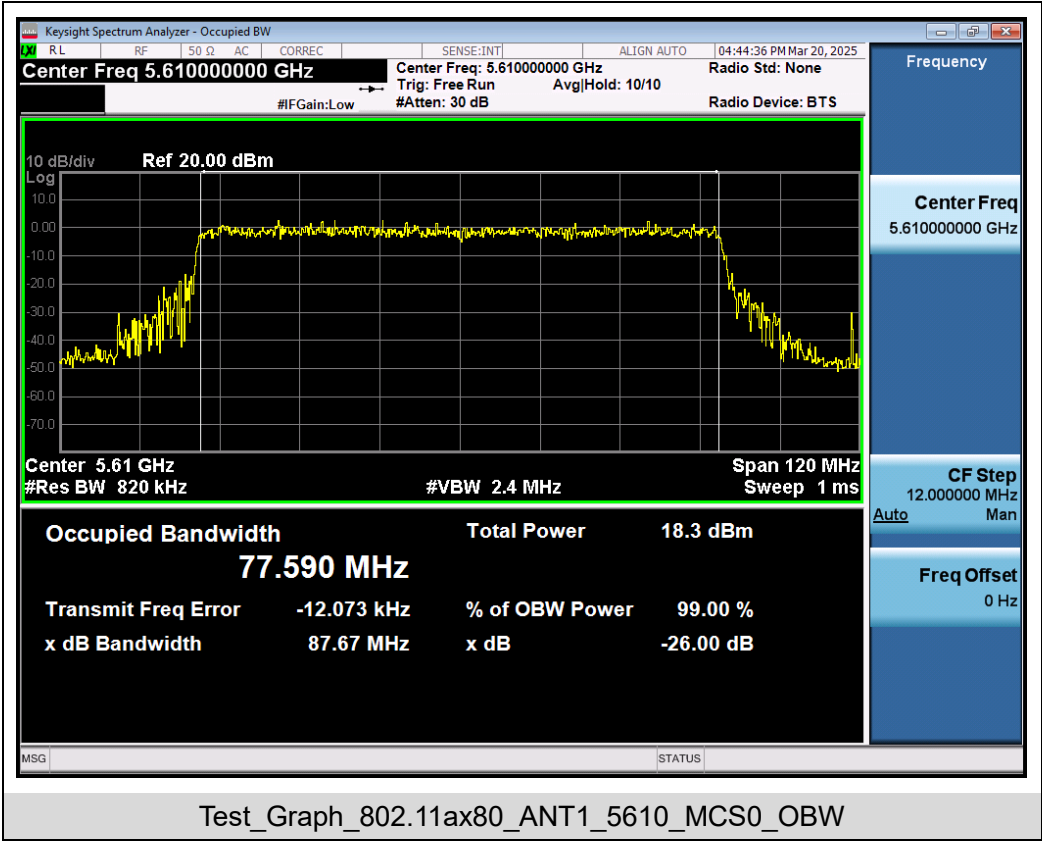
Test_Graph_802.11ax40_ANT1_5550_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5670_MCS0_OBW



Test_Graph_802.11ax80_ANT1_5530_MCS0_OBW



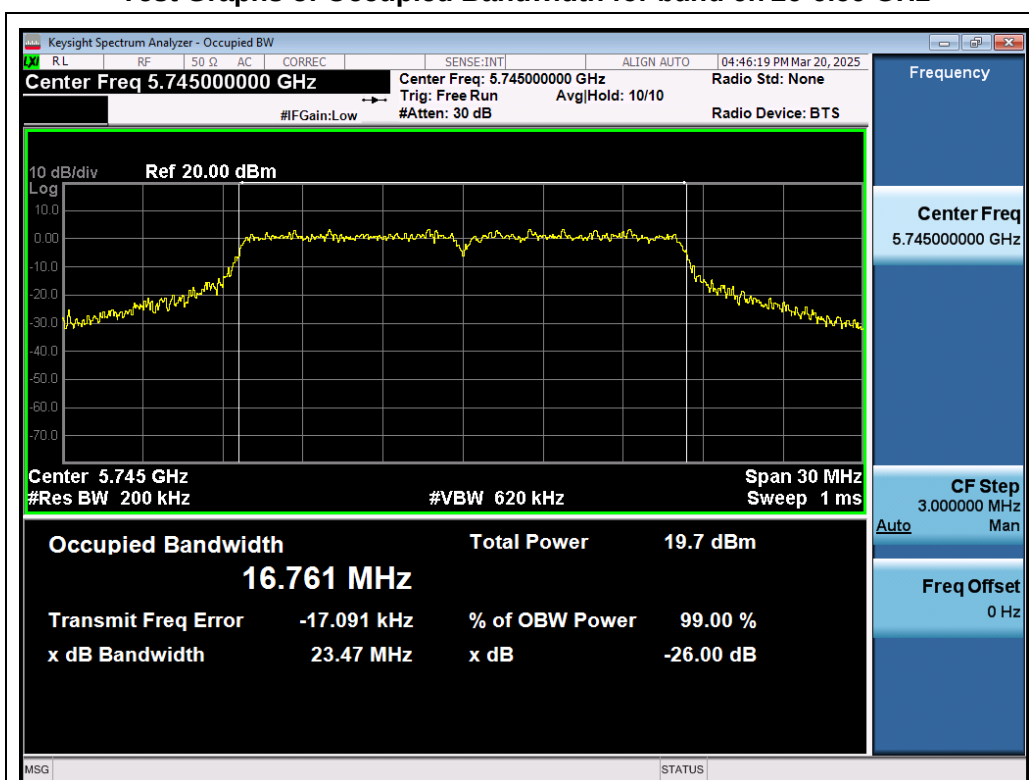
Appendix A2: DTS Bandwidth and Occupied Bandwidth

Test Result

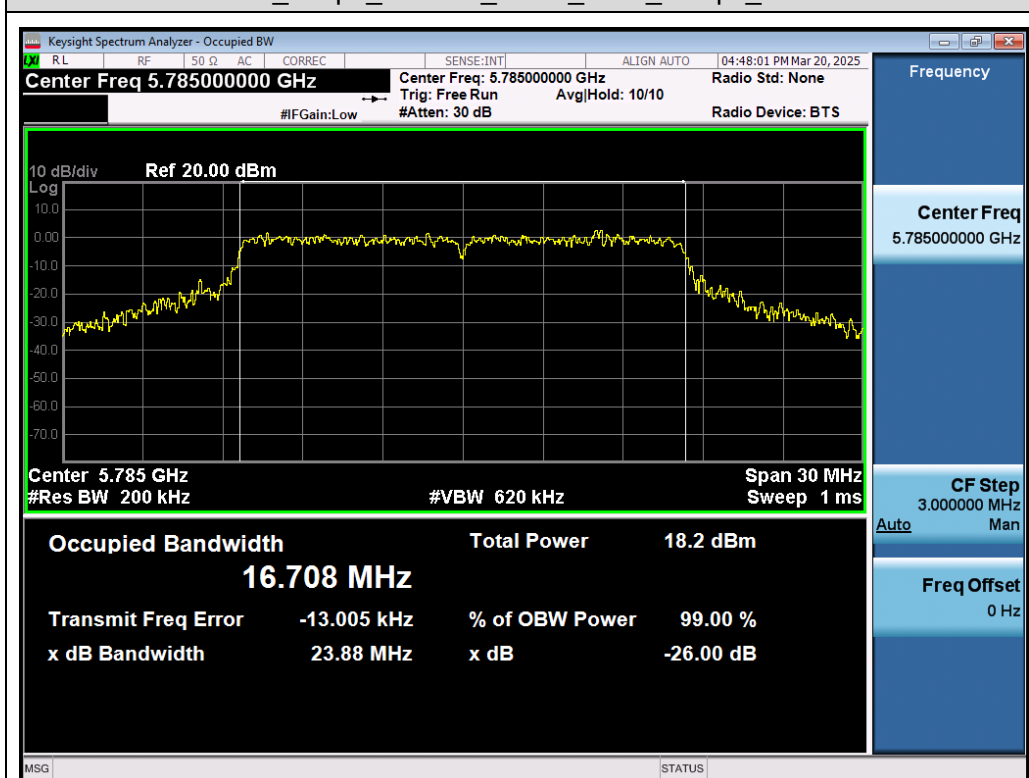
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5745	16.761	16.378	0.5	Pass
	5785	16.708	16.397	0.5	Pass
	5825	16.746	16.433	0.5	Pass
802.11n20	5745	17.968	17.654	0.5	Pass
	5785	17.921	17.843	0.5	Pass
	5825	17.988	17.678	0.5	Pass
802.11n40	5755	36.536	36.412	0.5	Pass
	5795	36.631	36.463	0.5	Pass
802.11ac20	5745	17.998	17.614	0.5	Pass
	5785	17.899	17.646	0.5	Pass
	5825	17.942	17.640	0.5	Pass
802.11ac40	5755	36.530	36.535	0.5	Pass
	5795	36.537	36.345	0.5	Pass
802.11ac80	5775	76.033	76.356	0.5	Pass
802.11ax20	5180	19.059	24.445	0.5	Pass
	5200	19.070	23.410	0.5	Pass
	5240	19.075	23.631	0.5	Pass
802.11ax40	5190	38.003	44.771	0.5	Pass
	5230	37.918	46.273	0.5	Pass
802.11ax80	5210	77.351	86.560	0.5	Pass

Test Graphs

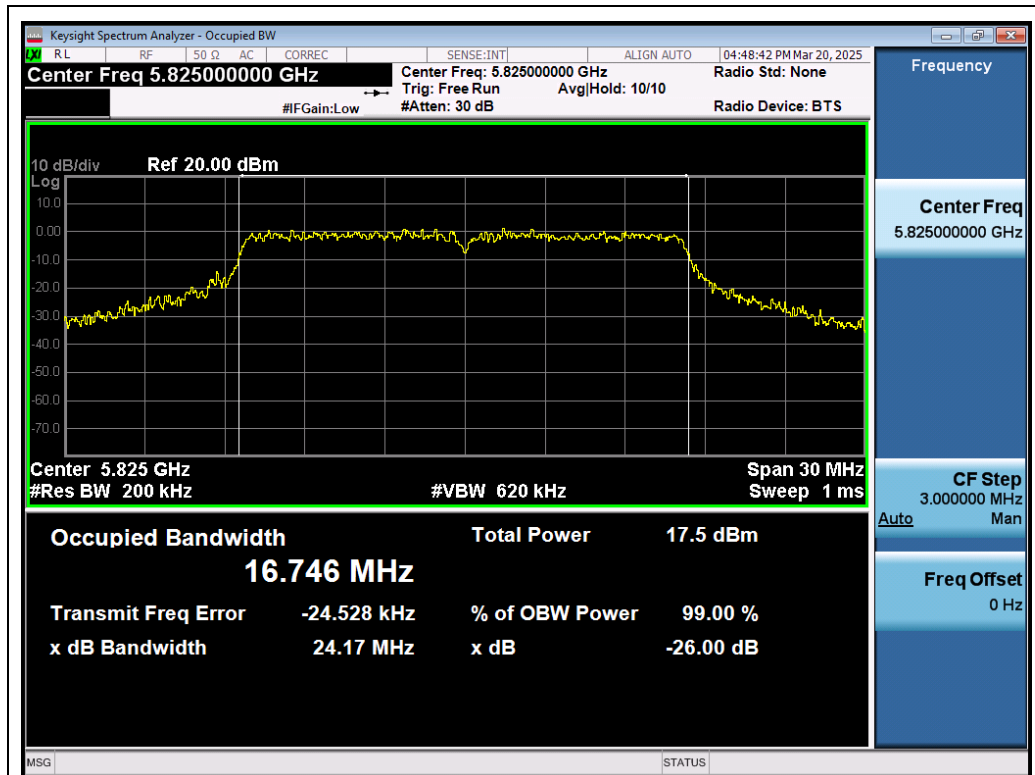
Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



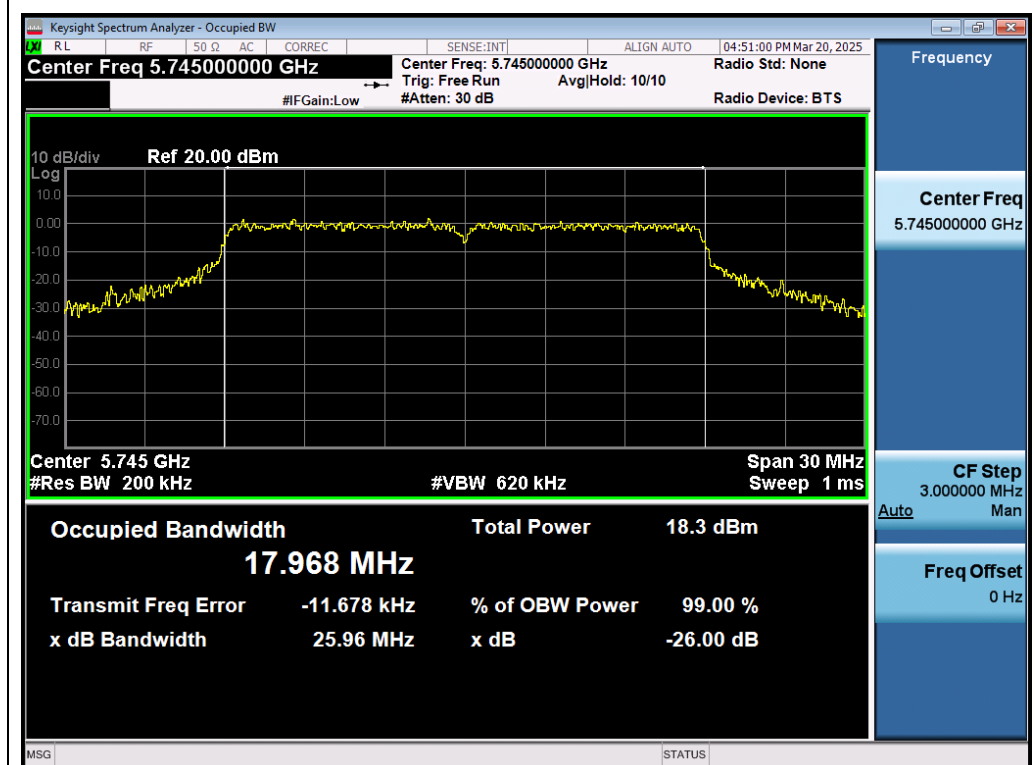
Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



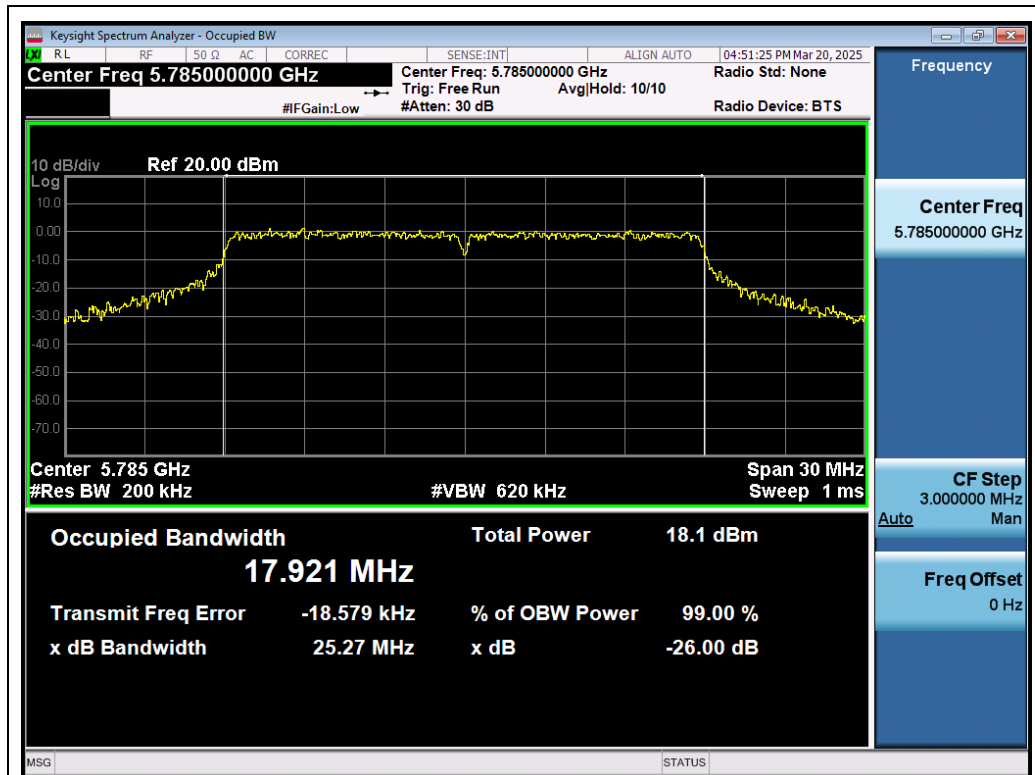
Test_Graph_802.11a_ANT1_5785_6Mbps_OBW



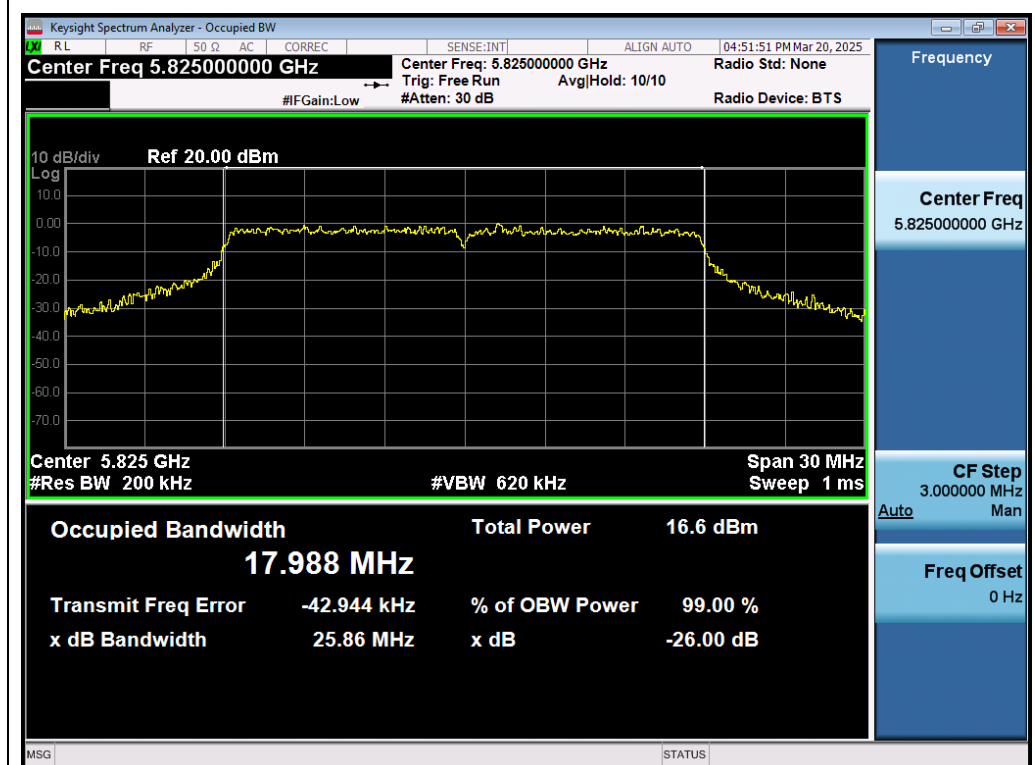
Test_Graph_802.11a_ANT1_5825_6Mbps_OBW



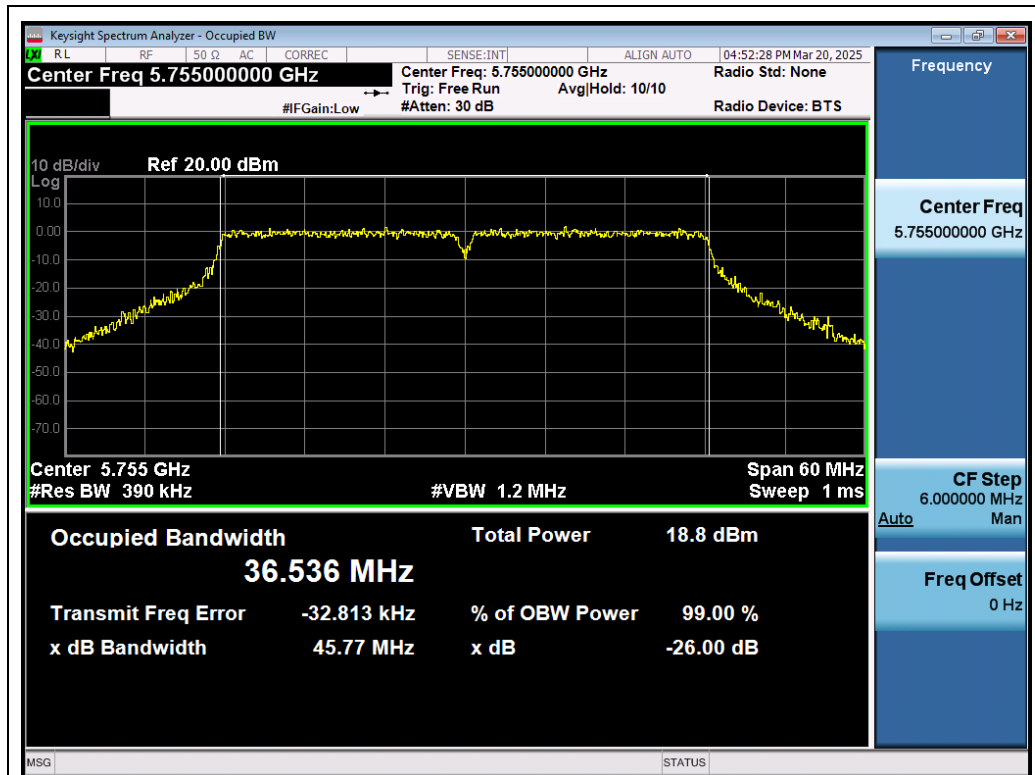
Test_Graph_802.11n20_ANT1_5745_MCS0_OBW



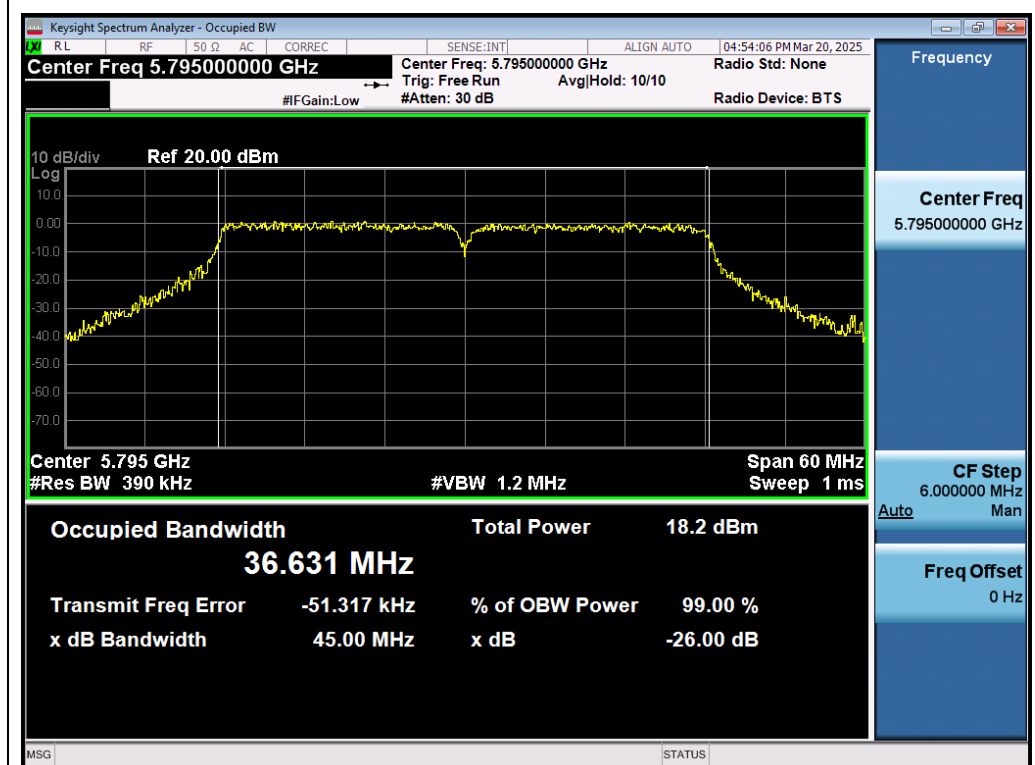
Test_Graph_802.11n20_ANT1_5785_MCS0_OBW



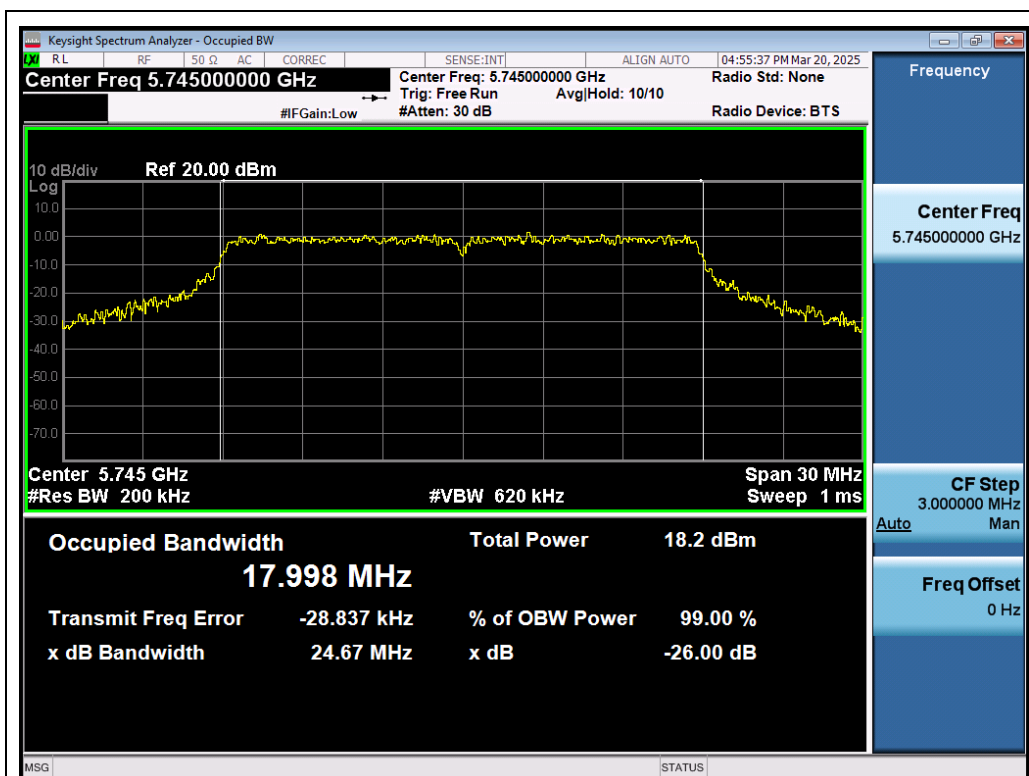
Test_Graph_802.11n20_ANT1_5825_MCS0_OBW



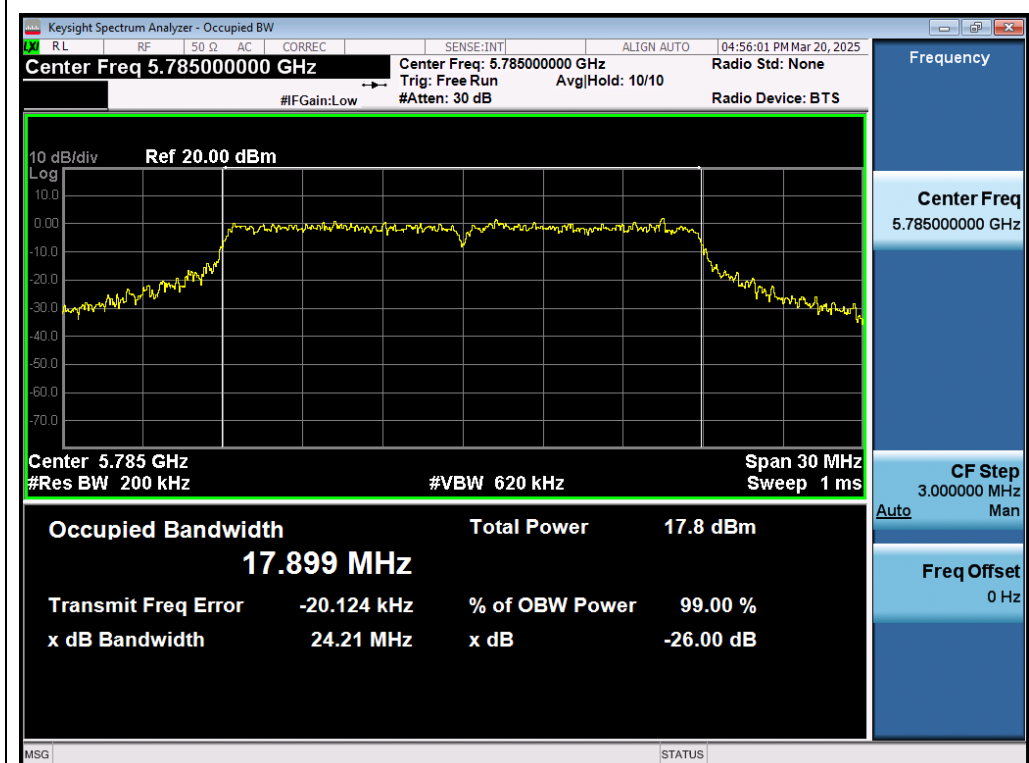
Test_Graph_802.11n40_ANT1_5755_MCS0_OBW



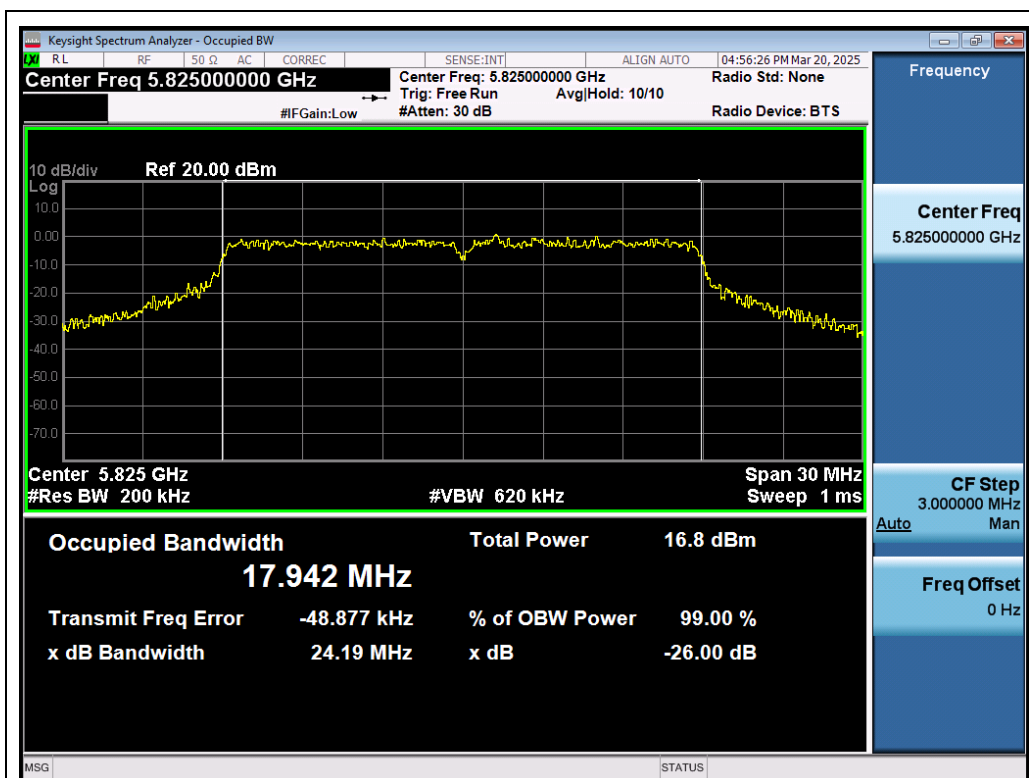
Test_Graph_802.11n40_ANT1_5795_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5745_MCS0_OBW



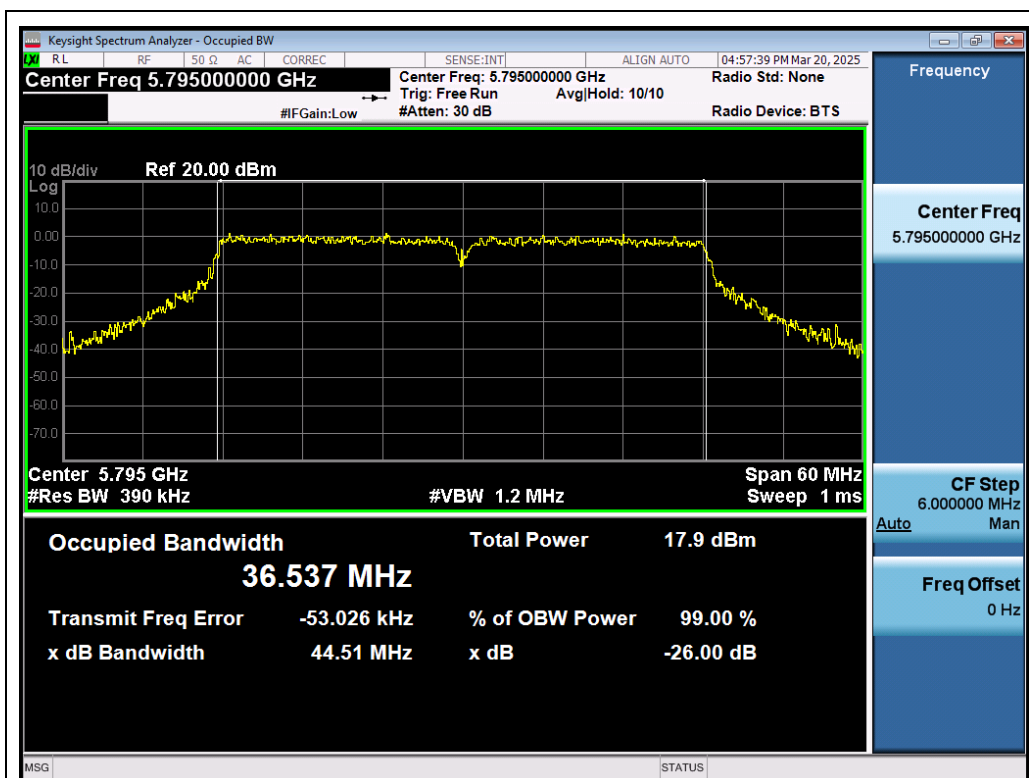
Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5825_MCS0_OBW



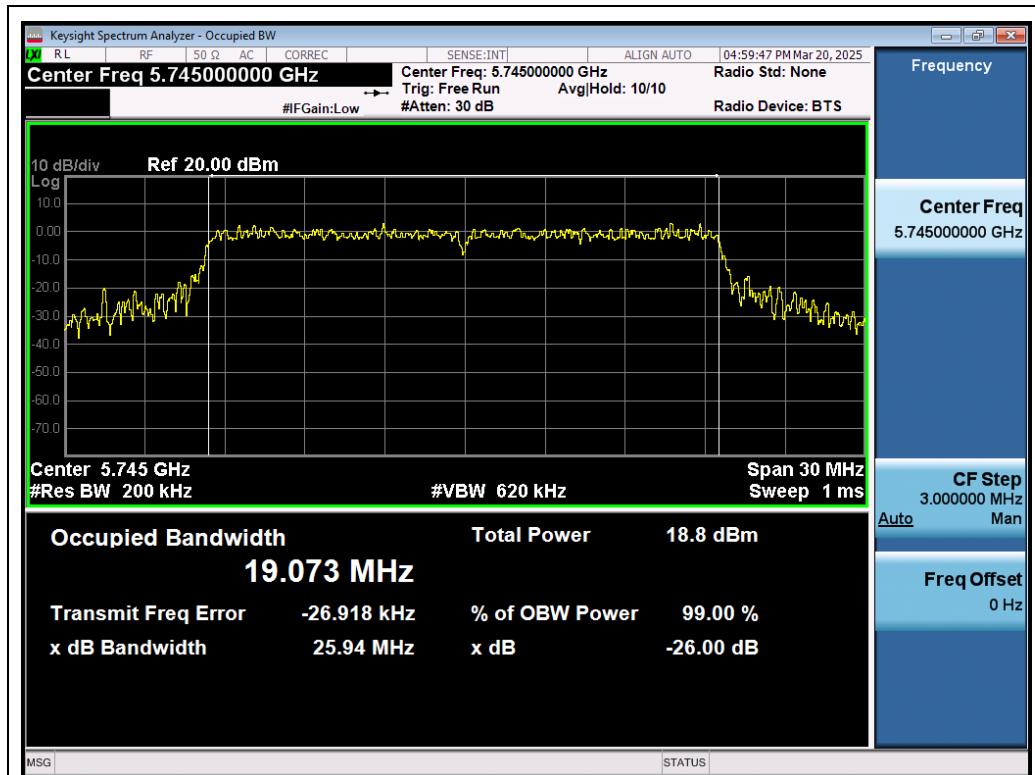
Test_Graph_802.11ac40_ANT1_5755_MCS0_OBW



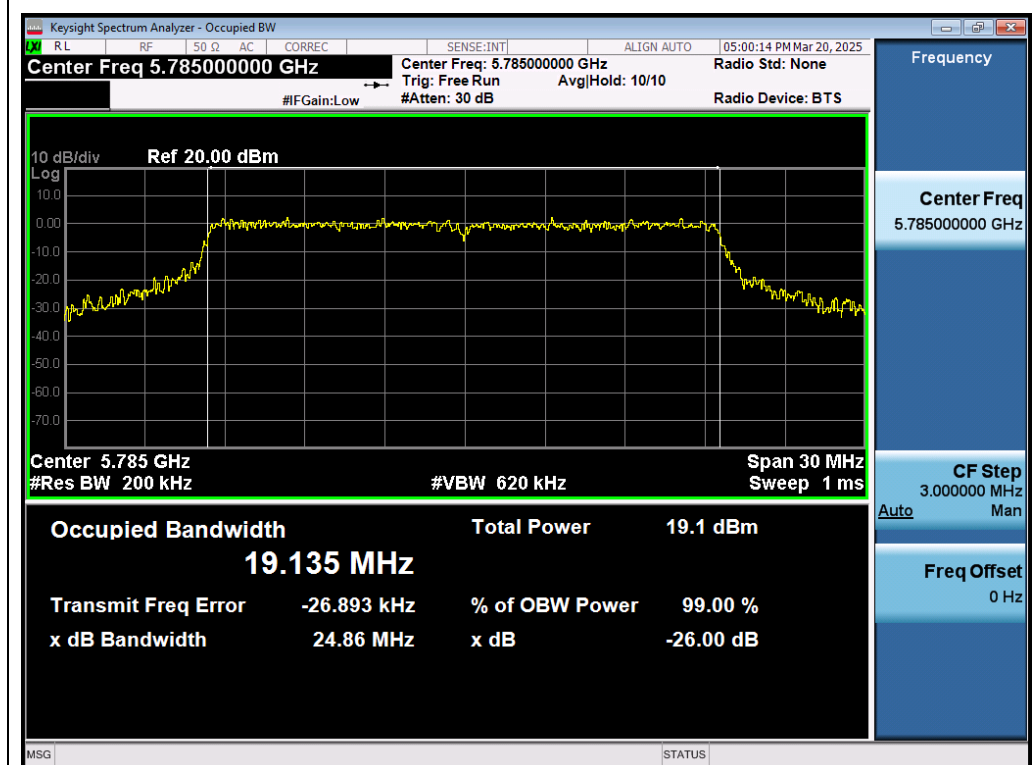
Test_Graph_802.11ac40_ANT1_5795_MCS0_OBW



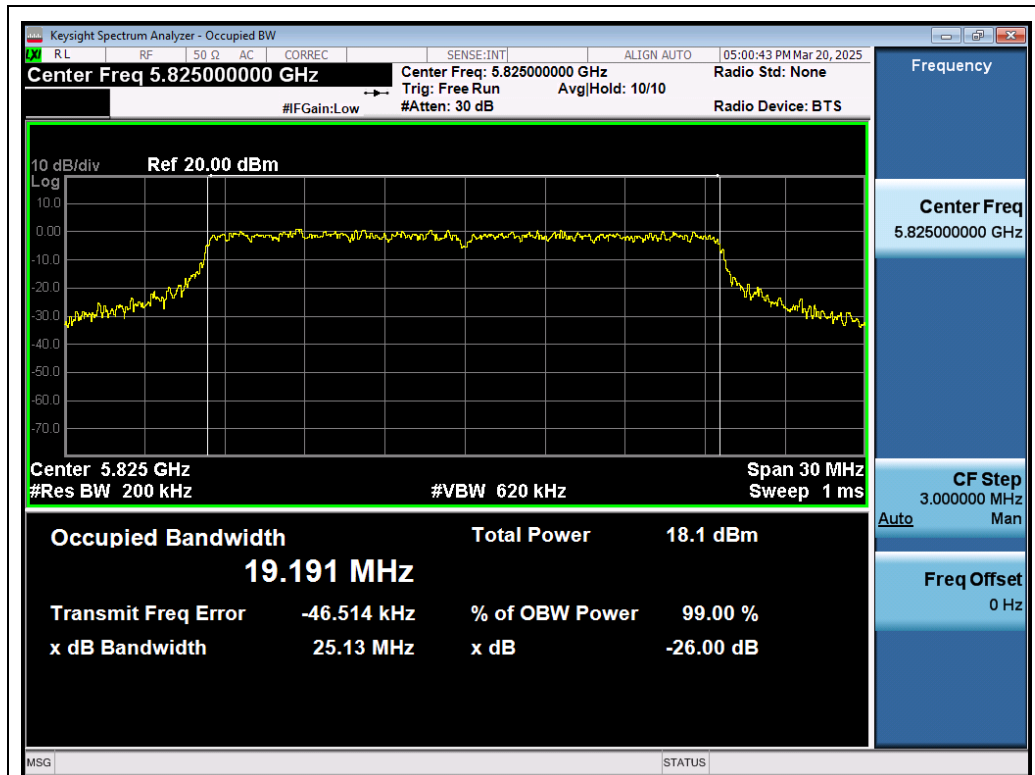
Test_Graph_802.11ac80_ANT1_5775_MCS0_OBW



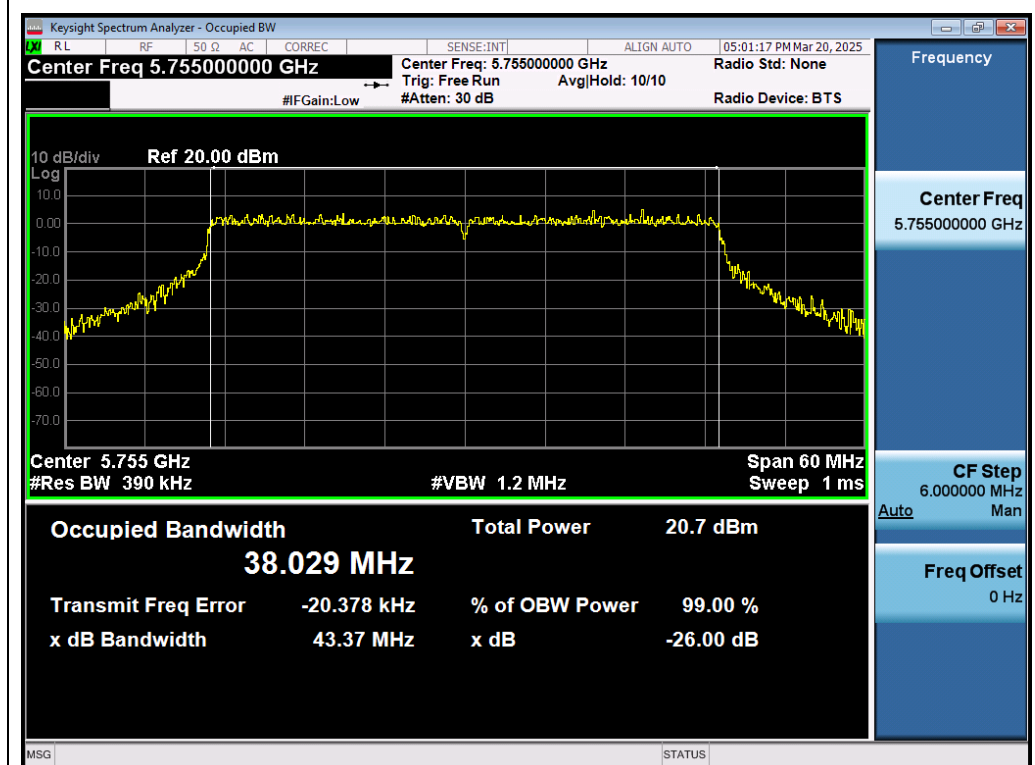
Test_Graph_802.11ax20_ANT1_5745_MCS0_OBW



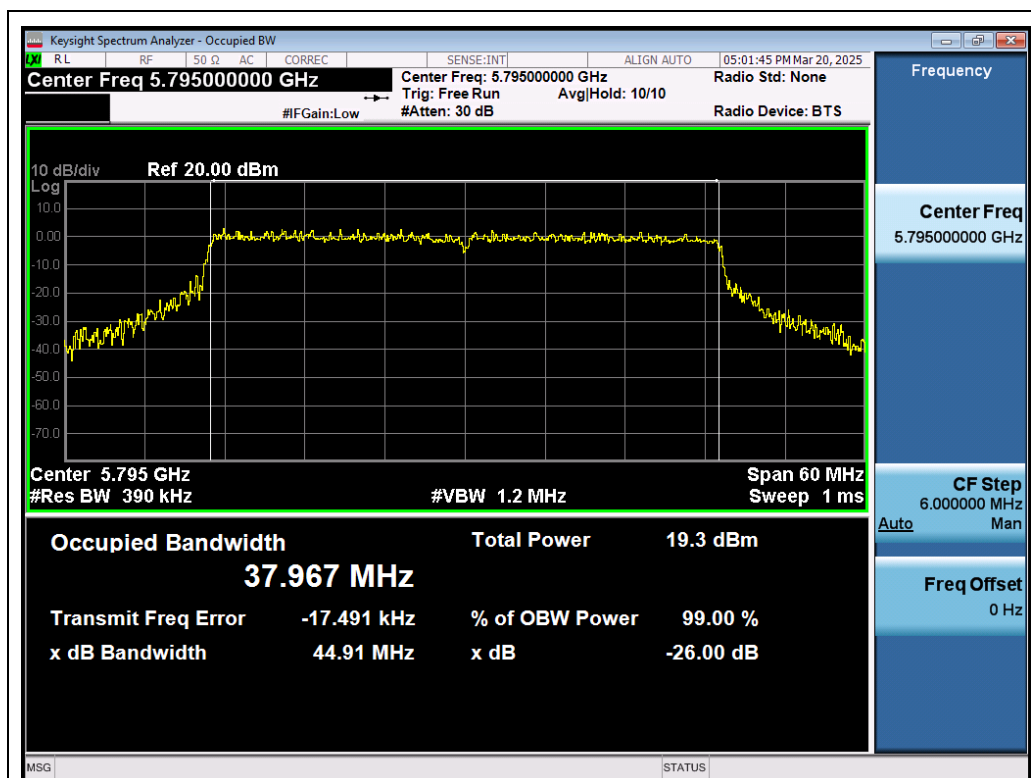
Test_Graph_802.11ax20_ANT1_5785_MCS0_OBW



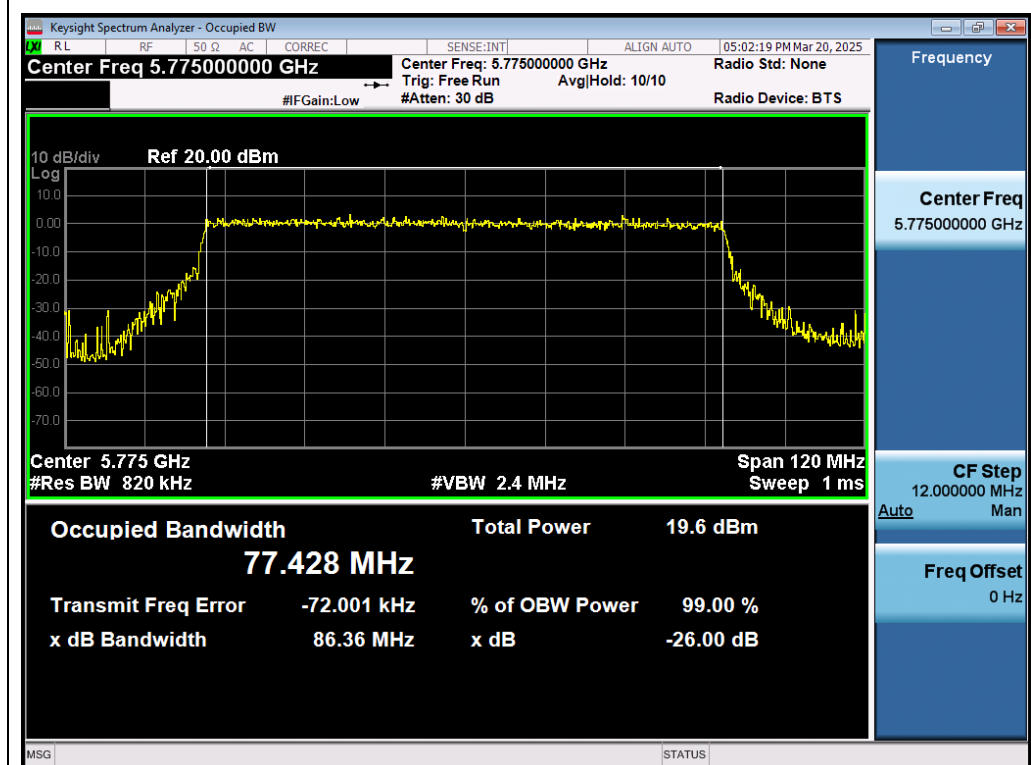
Test_Graph_802.11ax20_ANT1_5825_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5755_MCS0_OBW

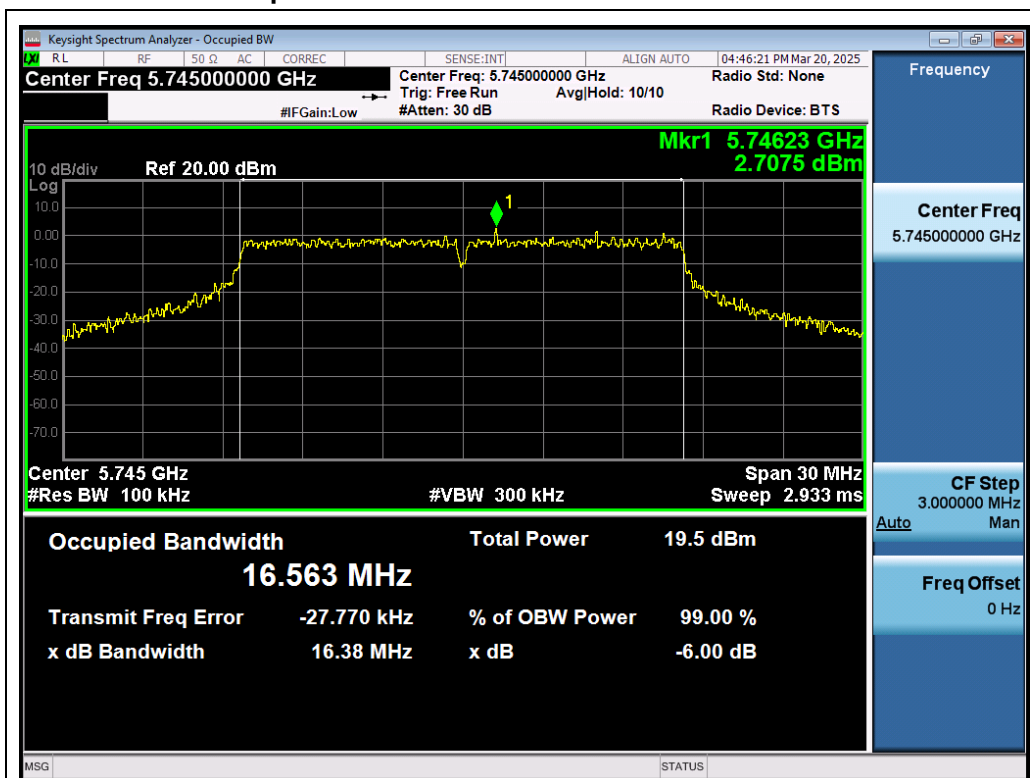


Test_Graph_802.11ax40_ANT1_5795_MCS0_OBW

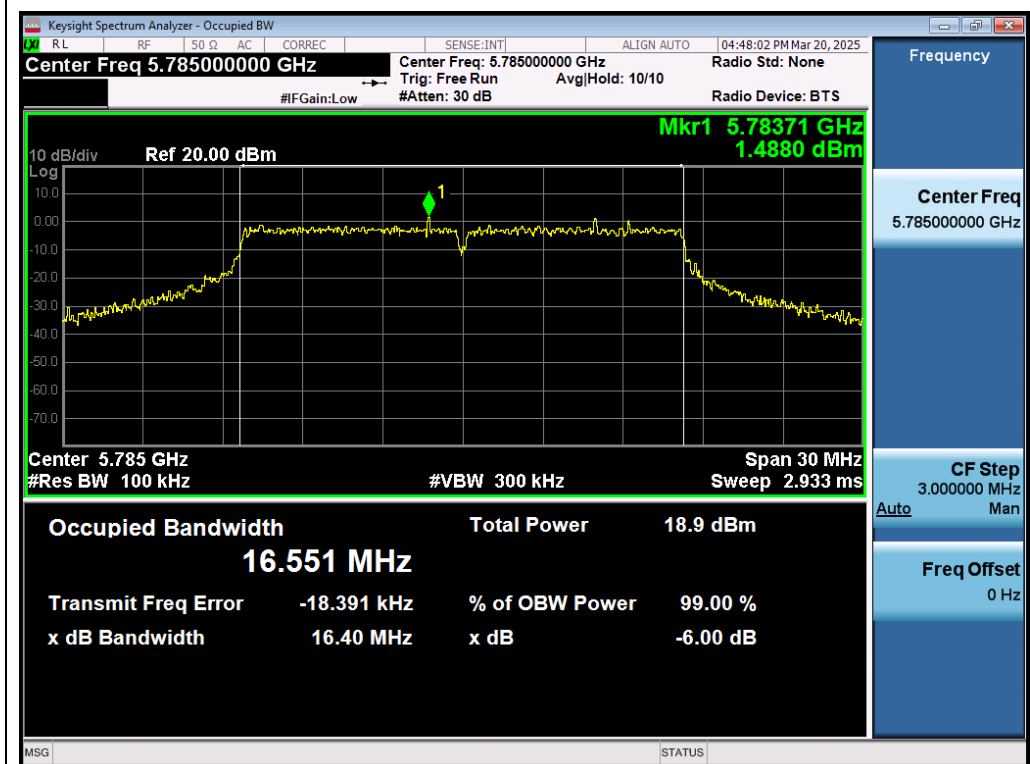


Test_Graph_802.11ax80_ANT1_5775_MCS0_OBW

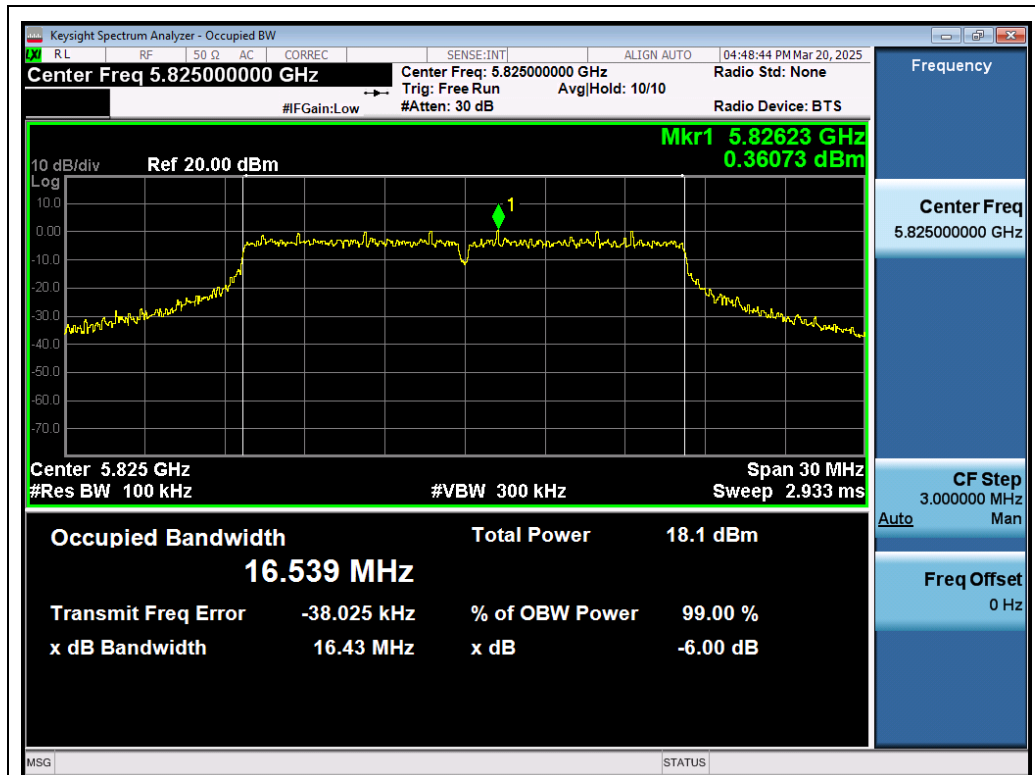
Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



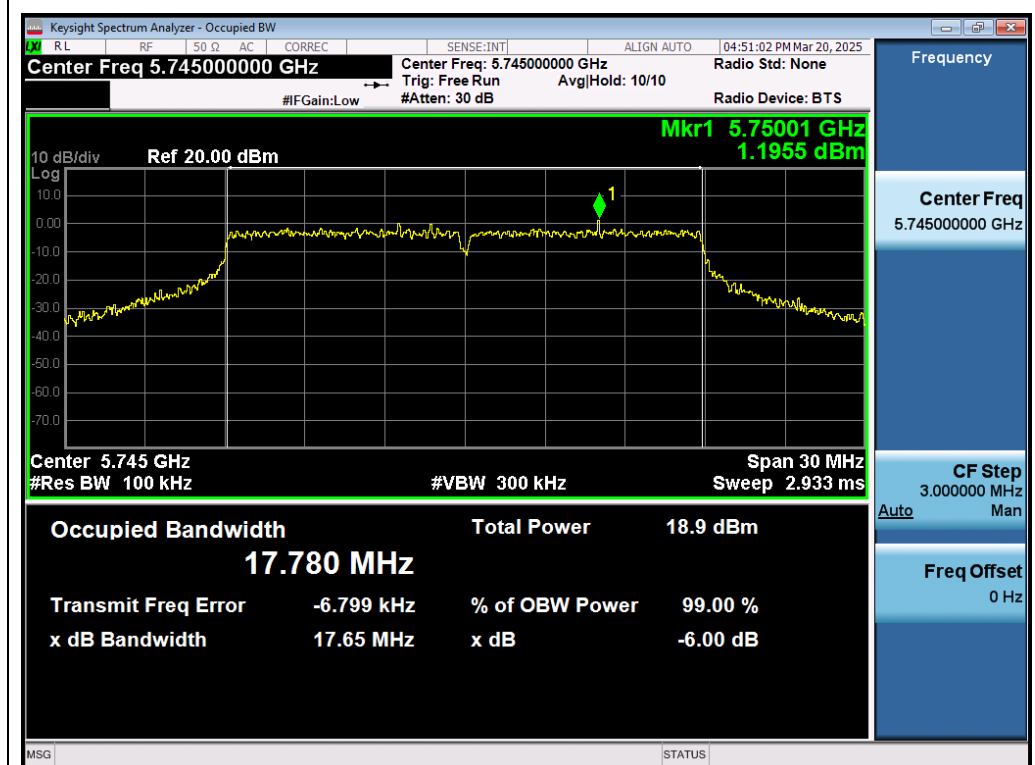
Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



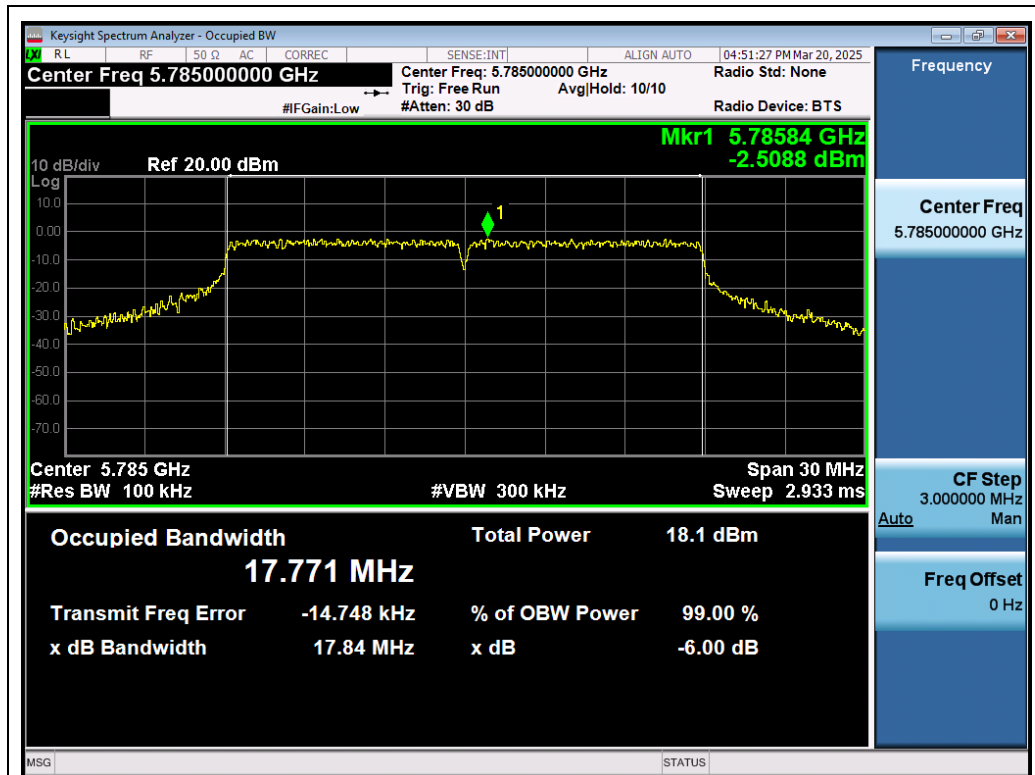
Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW



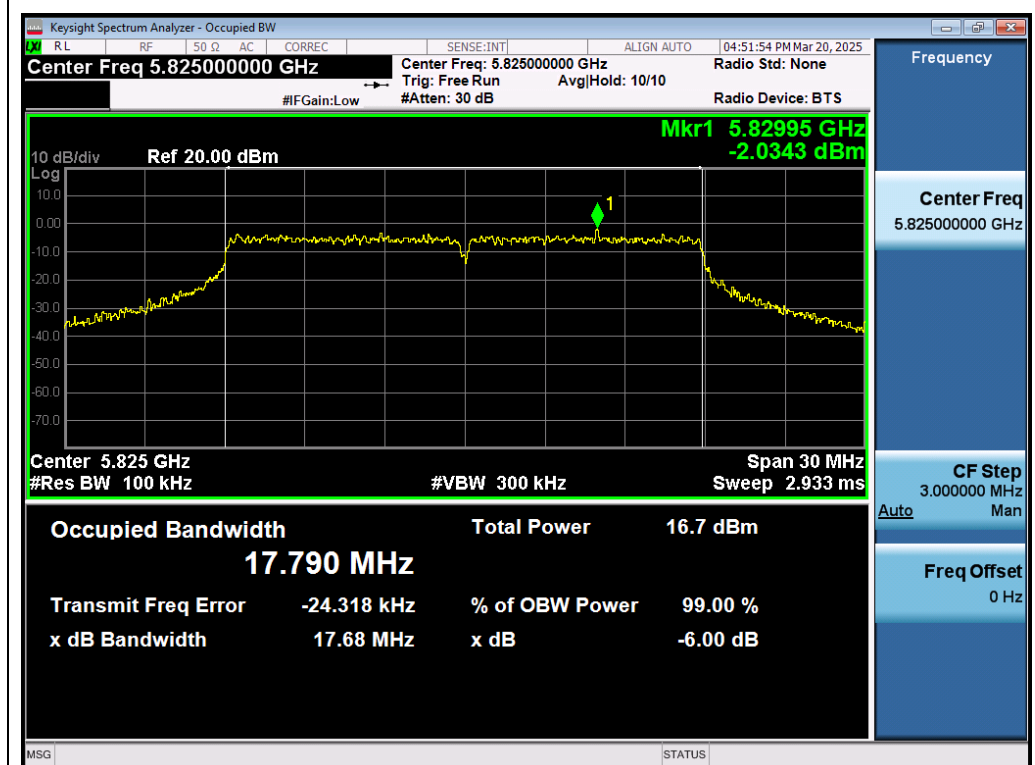
Test_Graph_802.11a_ANT1_5825_6Mbps_DTSBW



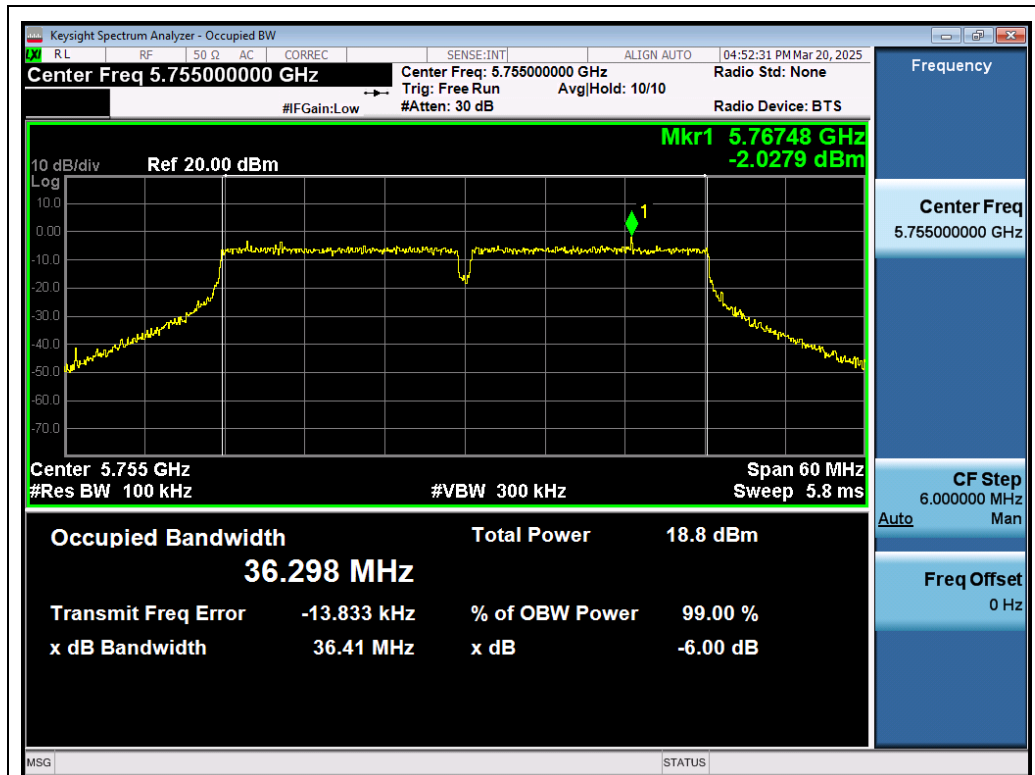
Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW



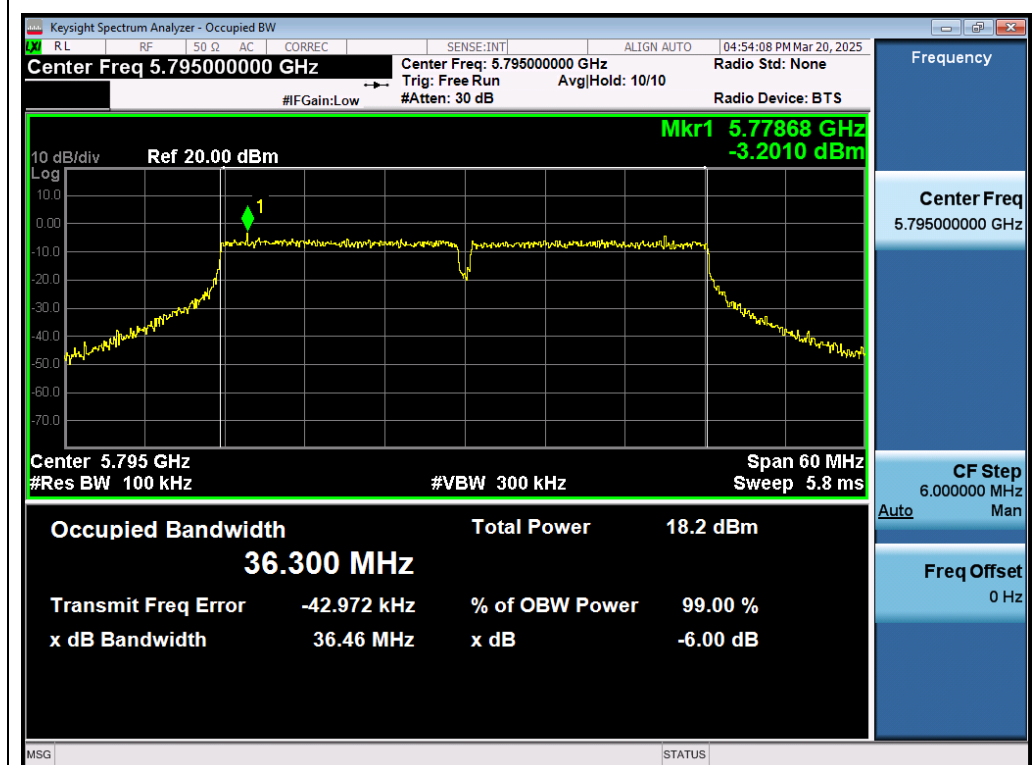
Test_Graph_802.11n20_ANT1_5785_MCS0_DTSBW



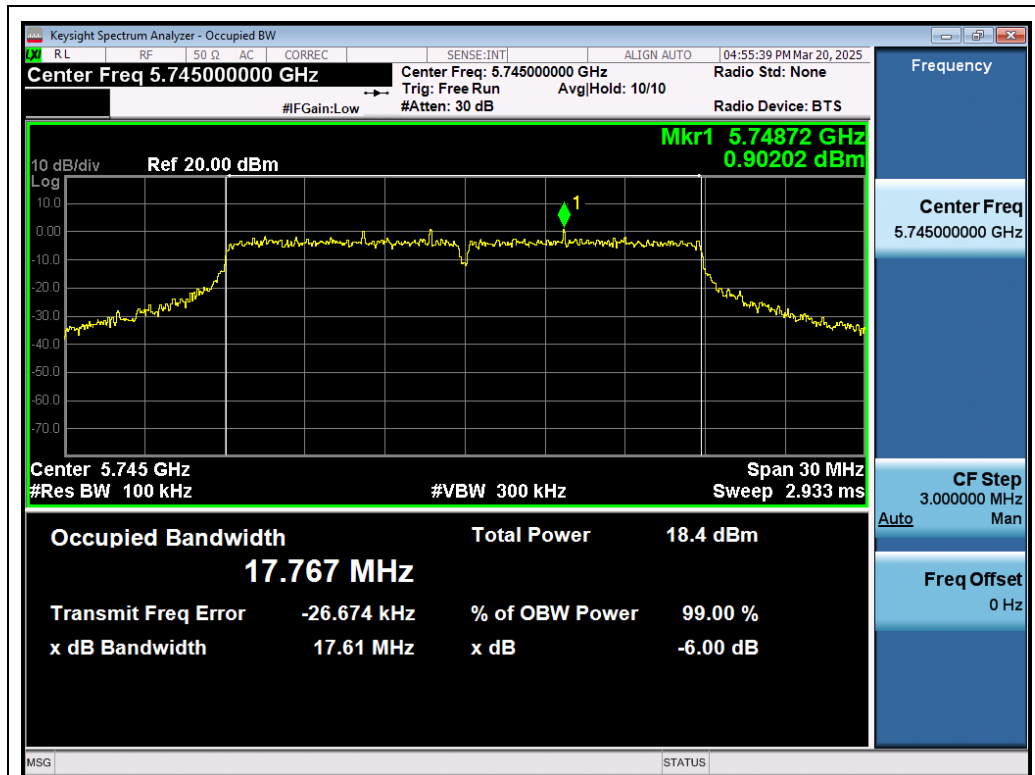
Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW



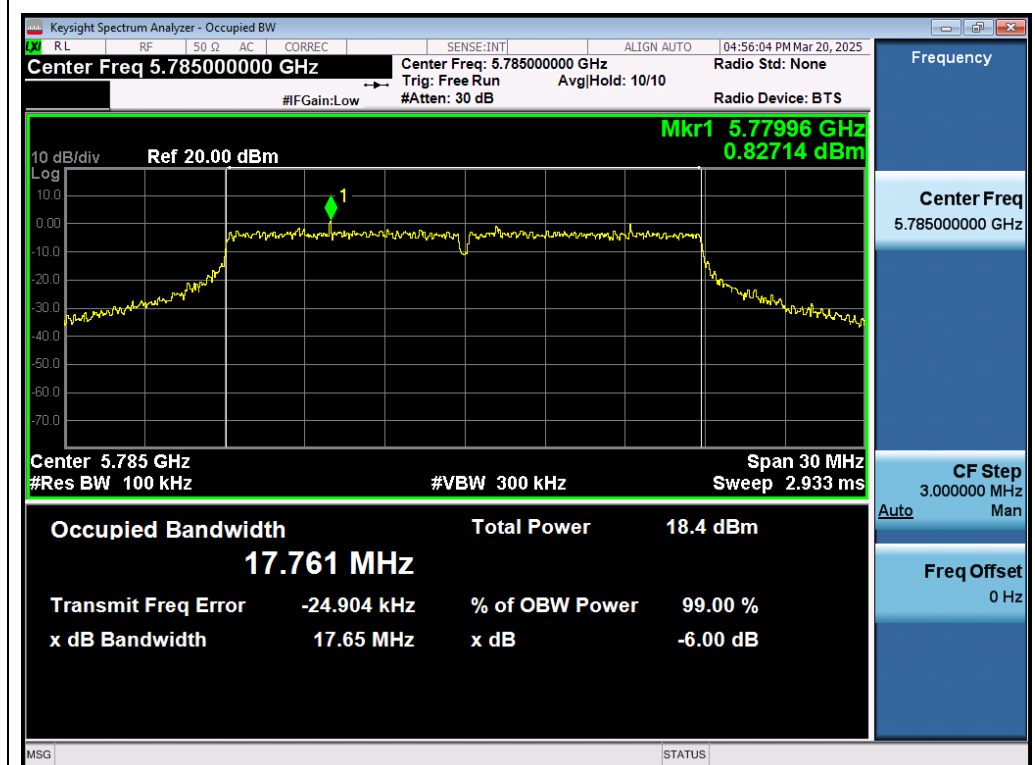
Test_Graph_802.11n40_ANT1_5755_MCS0_DTSBW



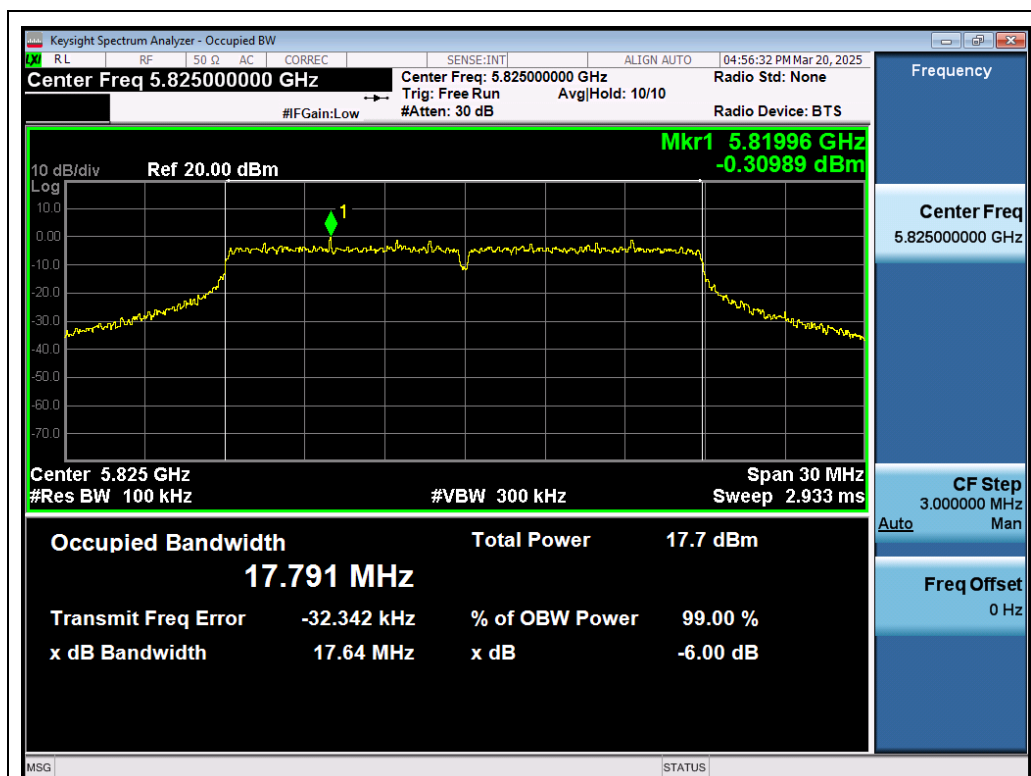
Test_Graph_802.11n40_ANT1_5795_MCS0_DTSBW



Test_Graph_802.11ac20_ANT1_5745_MCS0_DTSBW



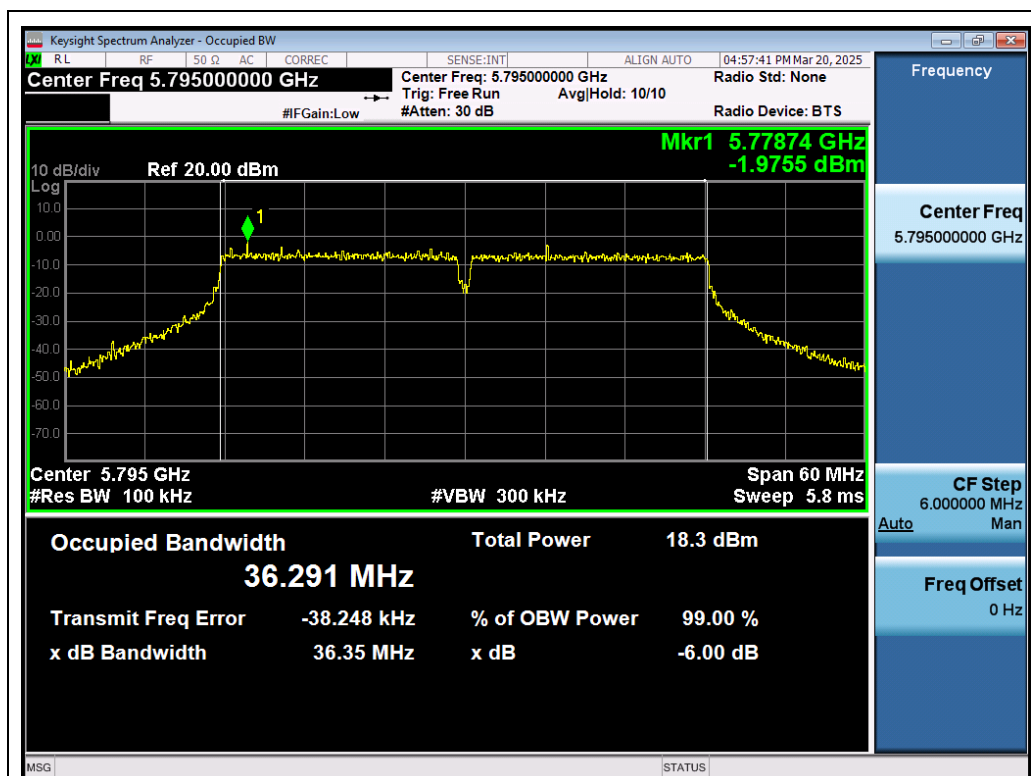
Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW



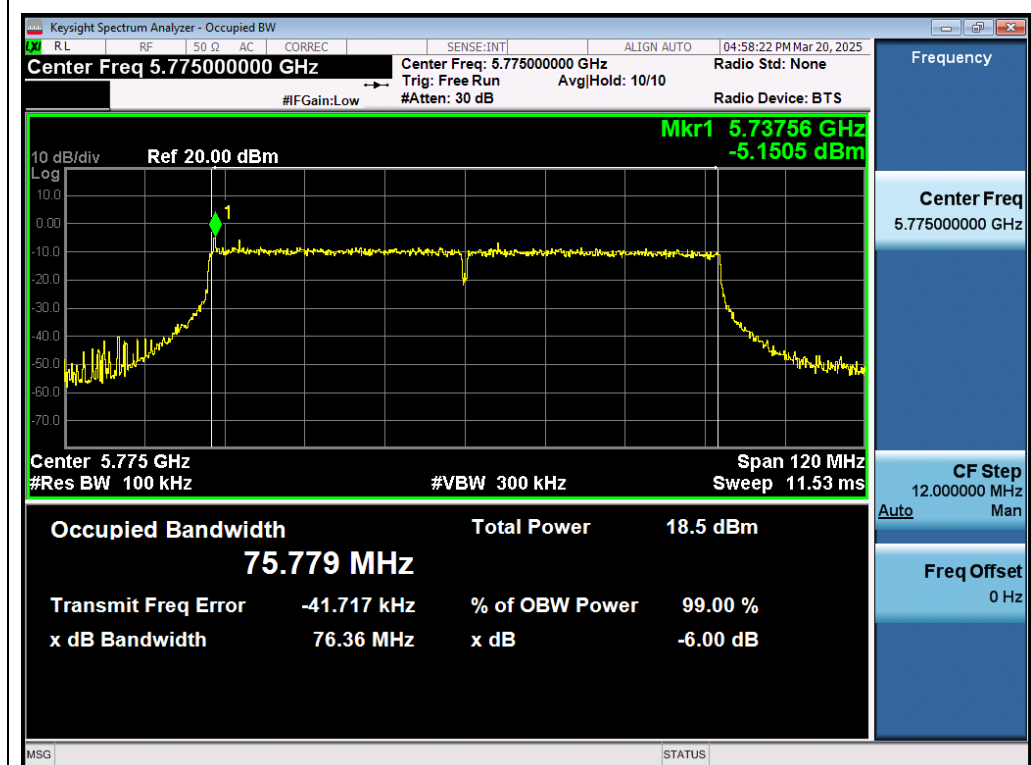
Test_Graph_802.11ac20_ANT1_5825_MCS0_DTSBW



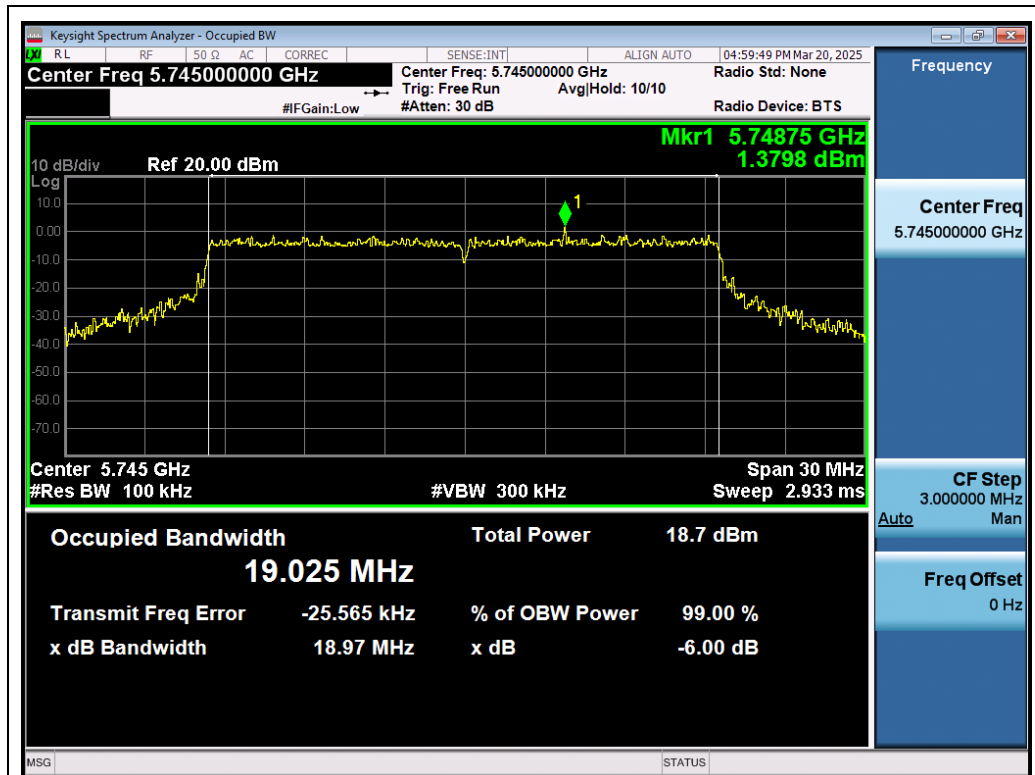
Test_Graph_802.11ac40_ANT1_5755_MCS0_DTSBW



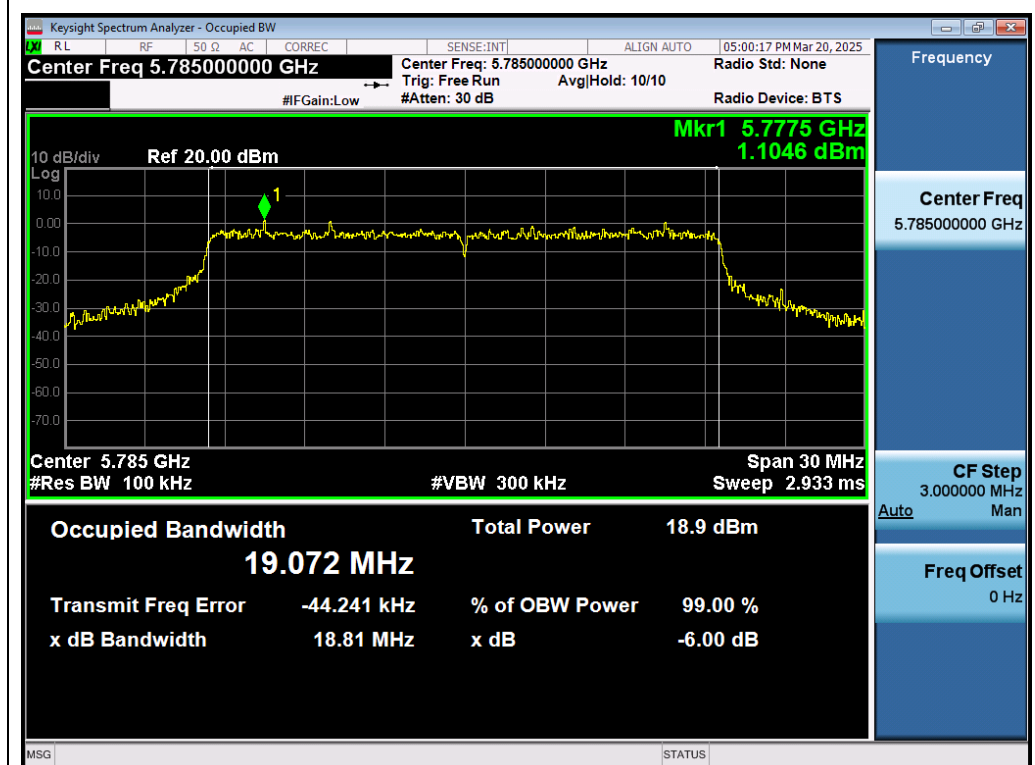
Test_Graph_802.11ac40_ANT1_5795_MCS0_DTSBW



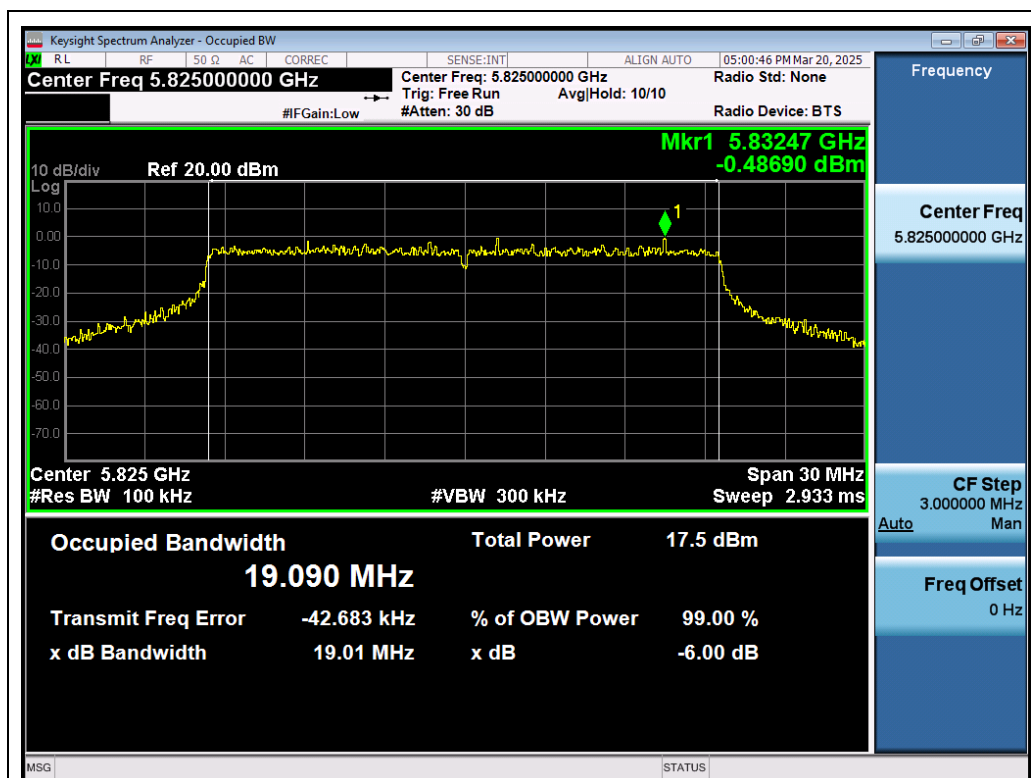
Test_Graph_802.11ac80_ANT1_5775_MCS0_DTSBW



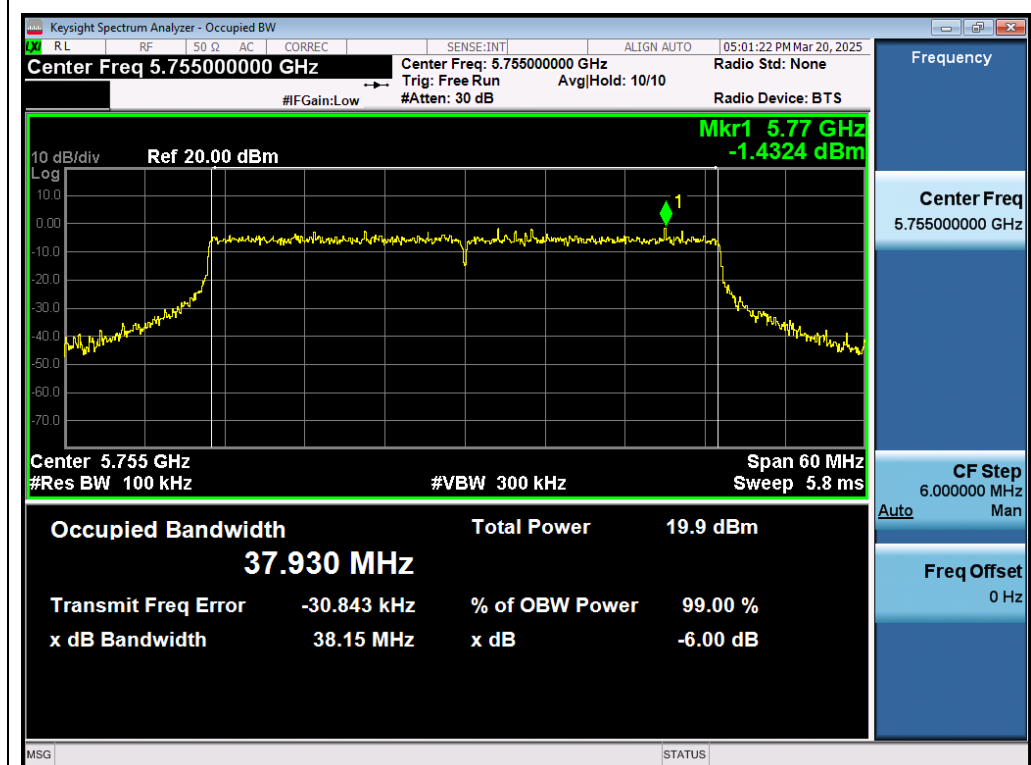
Test_Graph_802.11ax20_ANT1_5745_MCS0_DTSBW



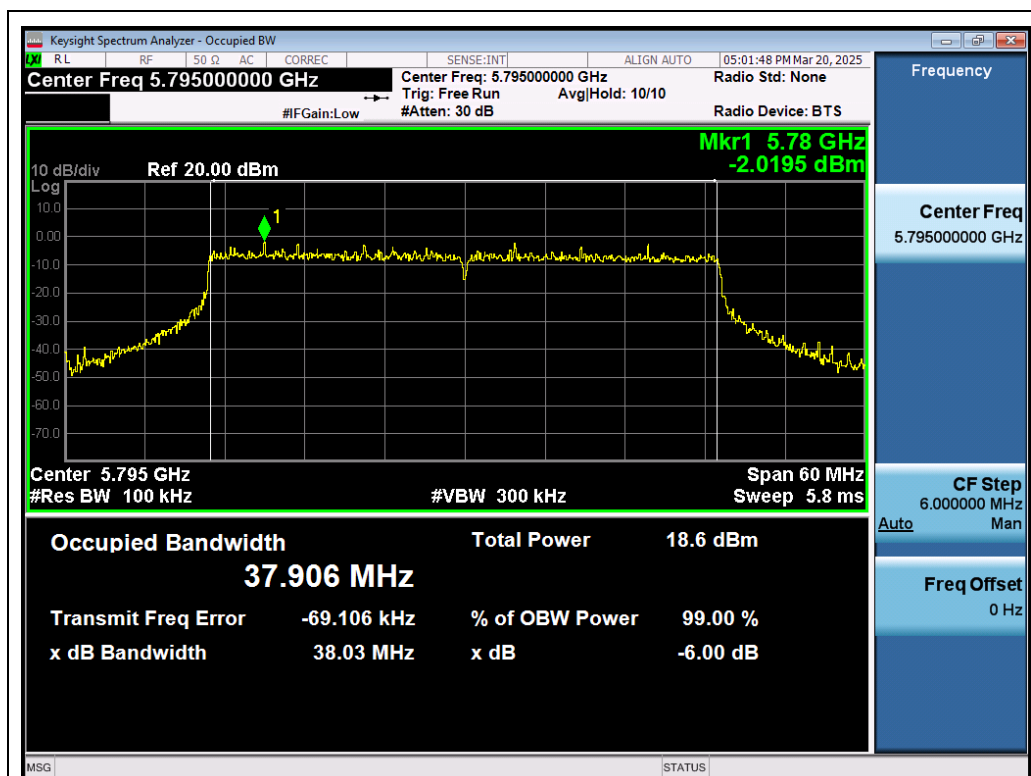
Test_Graph_802.11ax20_ANT1_5785_MCS0_DTSBW



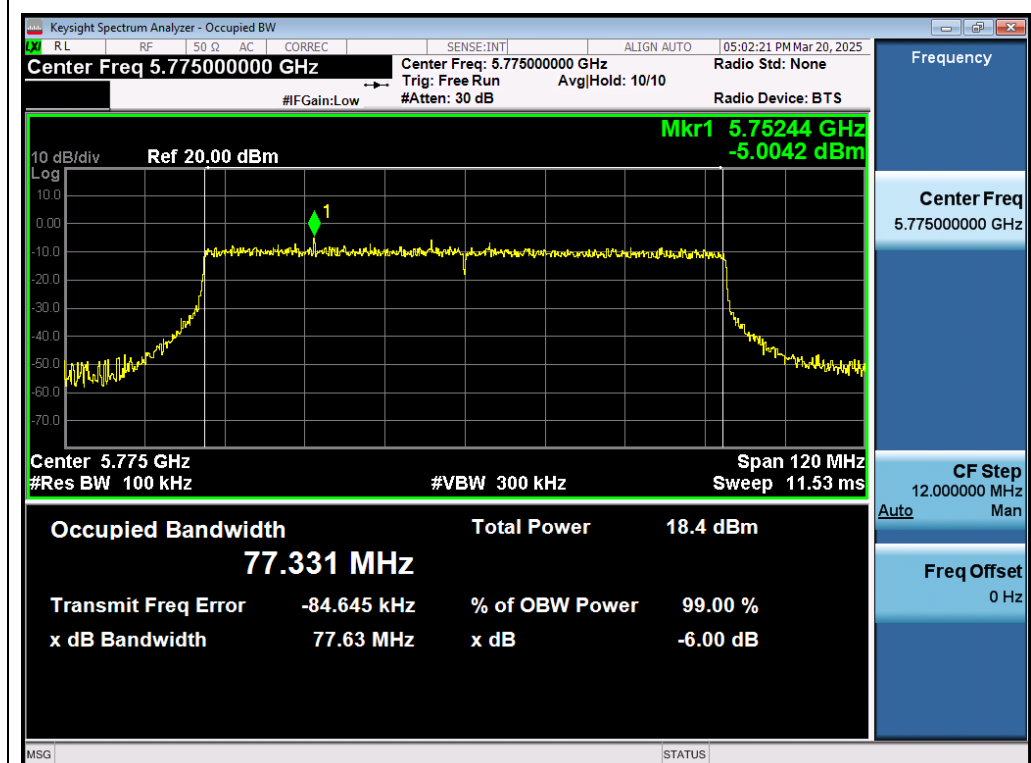
Test_Graph_802.11ax20_ANT1_5825_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_5755_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_5795_MCS0_DTSBW



Test_Graph_802.11ax80_ANT1_5775_MCS0_DTSBW

Appendix B: Maximum conducted output power

Test Result

Test Data of Conducted Output Power for band 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5180	13.40	23.98	Pass
	5200	13.03	23.98	Pass
	5240	13.15	23.98	Pass
802.11n20	5180	12.10	23.98	Pass
	5200	11.93	23.98	Pass
	5240	12.15	23.98	Pass
802.11n40	5190	12.03	23.98	Pass
	5230	12.16	23.98	Pass
802.11ac20	5180	12.08	23.98	Pass
	5200	12.12	23.98	Pass
	5240	12.23	23.98	Pass
802.11ac40	5190	12.35	23.98	Pass
	5230	12.21	23.98	Pass
802.11ac80	5210	12.12	23.98	Pass
802.11ax20	5180	11.77	23.98	Pass
	5200	11.89	23.98	Pass
	5240	11.87	23.98	Pass
802.11ax40	5190	11.57	23.98	Pass
	5230	11.93	23.98	Pass
802.11ax80	5210	11.84	23.98	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5260	12.78	23.98	Pass
	5300	12.48	23.98	Pass
	5320	12.49	23.98	Pass
802.11n20	5260	12.32	23.98	Pass
	5300	12.17	23.98	Pass
	5320	12.24	23.98	Pass
802.11n40	5270	12.12	23.98	Pass
	5310	11.97	23.98	Pass
802.11ac20	5260	12.39	23.98	Pass
	5300	12.11	23.98	Pass
	5320	12.05	23.98	Pass
802.11ac40	5270	12.53	23.98	Pass
	5310	12.18	23.98	Pass
802.11ac80	5290	12.13	23.98	Pass
802.11ax20	5260	12.31	23.98	Pass
	5300	12.12	23.98	Pass
	5320	11.99	23.98	Pass
802.11ax40	5270	12.41	23.98	Pass
	5310	12.17	23.98	Pass
802.11ax80	5290	12.44	23.98	Pass

Test Data of Conducted Output Power for band 5.470-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5500	13.00	23.98	Pass
	5580	13.08	23.98	Pass
	5700	12.99	23.98	Pass
802.11n20	5500	11.90	23.98	Pass
	5580	11.62	23.98	Pass
	5700	11.99	23.98	Pass
802.11n40	5510	11.92	23.98	Pass
	5590	11.81	23.98	Pass
	5670	12.25	23.98	Pass
802.11ac20	5500	12.02	23.98	Pass
	5580	12.22	23.98	Pass
	5700	12.10	23.98	Pass
802.11ac40	5510	12.06	23.98	Pass
	5590	12.36	23.98	Pass
	5670	12.11	23.98	Pass
802.11ac80	5530	11.41	23.98	Pass
	5610	11.67	23.98	Pass
802.11ax20	5500	11.84	23.98	Pass
	5580	12.12	23.98	Pass
	5700	11.58	23.98	Pass
802.11ax40	5510	12.00	23.98	Pass
	5590	11.42	23.98	Pass
	5670	11.72	23.98	Pass
802.11ax80	5530	11.83	23.98	Pass
	5610	11.68	23.98	Pass

Test Data of Conducted Output Power for band 5.725-5.850 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5745	13.81	30	Pass
	5785	13.14	30	Pass
	5825	11.87	30	Pass
802.11n20	5745	13.04	30	Pass
	5785	12.28	30	Pass
	5825	10.68	30	Pass
802.11n40	5755	12.98	30	Pass
	5795	12.07	30	Pass
802.11ac20	5745	13.06	30	Pass
	5785	12.35	30	Pass
	5825	11.19	30	Pass
802.11ac40	5755	13.01	30	Pass
	5795	12.14	30	Pass
802.11ac80	5775	12.19	30	Pass
802.11ax20	5745	13.06	30	Pass
	5785	12.36	30	Pass
	5825	11.13	30	Pass
802.11ax40	5755	13.06	30	Pass
	5795	12.11	30	Pass
802.11ax80	5775	12.56	30	Pass

Note: The Duty Cycle Factor is compensated in the result.

Appendix C: Maximum power spectral density

Test 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)	Result
802.11a	5180	2.628	11	Pass
	5200	2.186	11	Pass
	5240	2.475	11	Pass
802.11n20	5180	0.972	11	Pass
	5200	0.635	11	Pass
	5240	0.862	11	Pass
802.11n40	5190	-2.160	11	Pass
	5230	-2.106	11	Pass
802.11ac20	5180	0.811	11	Pass
	5200	0.883	11	Pass
	5240	0.818	11	Pass
802.11ac40	5190	-1.970	11	Pass
	5230	-2.228	11	Pass
802.11ac80	5210	-5.258	11	Pass
802.11ax20	5180	0.255	11	Pass
	5200	0.578	11	Pass
	5240	0.548	11	Pass
802.11ax40	5190	-2.634	11	Pass
	5230	-2.467	11	Pass
802.11ax80	5210	-5.420	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)	Result
802.11a	5260	1.691	11	Pass
	5300	1.354	11	Pass
	5320	1.576	11	Pass
802.11n20	5260	0.969	11	Pass
	5300	0.939	11	Pass
	5320	0.937	11	Pass
802.11n40	5270	-2.384	11	Pass
	5310	-2.086	11	Pass
802.11ac20	5260	1.323	11	Pass
	5300	0.841	11	Pass
	5320	1.012	11	Pass
802.11ac40	5270	-1.923	11	Pass
	5310	-1.988	11	Pass
802.11ac80	5290	-4.898	11	Pass
802.11ax20	5260	1.108	11	Pass
	5300	0.660	11	Pass
	5320	0.666	11	Pass
802.11ax40	5270	-1.907	11	Pass
	5310	-2.228	11	Pass
802.11ax80	5290	-4.977	11	Pass

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)	Result
802.11a	5500	1.696	11	Pass
	5600	1.794	11	Pass
	5700	2.023	11	Pass
802.11n20	5500	0.190	11	Pass
	5600	0.298	11	Pass
	5700	0.225	11	Pass
802.11n40	5510	-2.889	11	Pass
	5590	-2.932	11	Pass
	5670	-2.480	11	Pass
802.11ac20	5500	0.361	11	Pass
	5600	0.526	11	Pass
	5700	0.449	11	Pass
802.11ac40	5510	-2.718	11	Pass
	5590	-2.664	11	Pass
	5670	-2.525	11	Pass
802.11ac80	5530	-6.118	11	Pass
	5610	-5.928	11	Pass
802.11ax20	5500	0.178	11	Pass
	5600	0.302	11	Pass
	5700	-0.068	11	Pass
802.11ax40	5510	-2.926	11	Pass
	5590	-3.215	11	Pass
	5670	-3.046	11	Pass
802.11ax80	5530	-6.560	11	Pass
	5610	-6.301	11	Pass

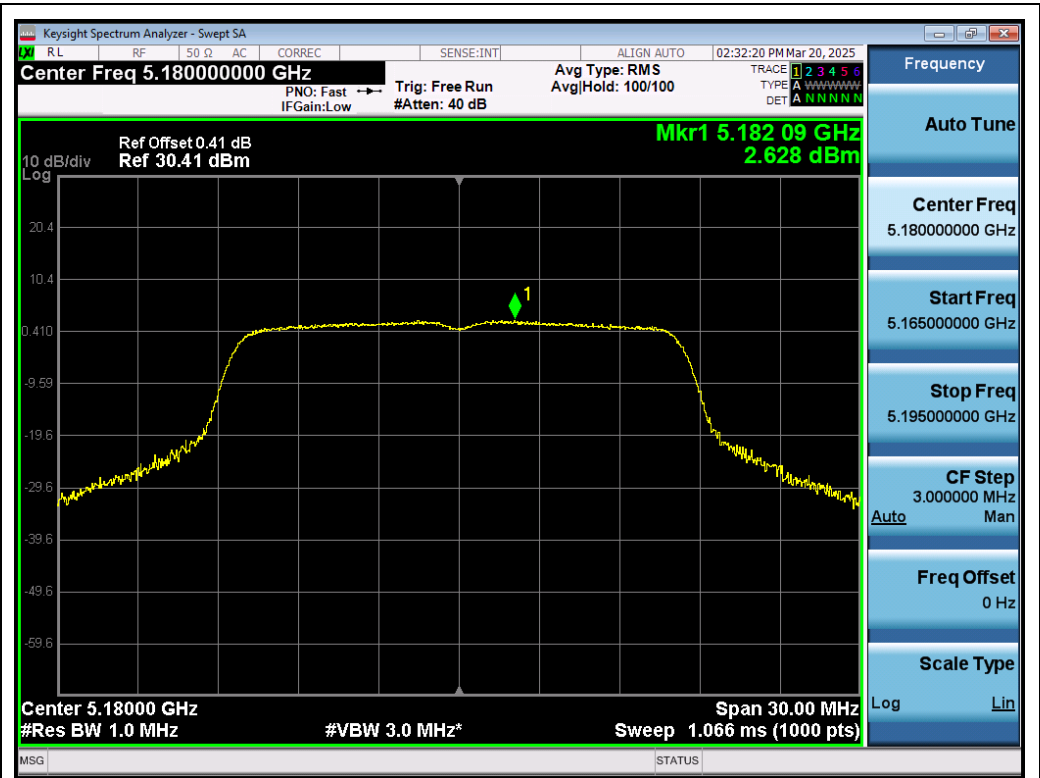
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Result
802.11a	5745	-6.511	0.479	30	Pass
	5785	-6.985	0.005	30	Pass
	5825	-8.22	-1.230	30	Pass
802.11n20	5745	-7.583	-0.593	30	Pass
	5785	-8.167	-1.177	30	Pass
	5825	-9.619	-2.629	30	Pass
802.11n40	5755	-10.854	-3.864	30	Pass
	5795	-11.586	-4.596	30	Pass
802.11ac20	5745	-7.522	-0.532	30	Pass
	5785	-8.203	-1.213	30	Pass
	5825	-9.09	-2.100	30	Pass
802.11ac40	5755	-10.923	-3.933	30	Pass
	5795	-11.454	-4.464	30	Pass
802.11ac80	5775	-14.626	-7.636	30	Pass
802.11ax20	5745	-8.749	-1.759	30	Pass
	5785	-9.391	-2.401	30	Pass
	5825	-10.447	-3.457	30	Pass
802.11ax40	5755	-11.921	-4.931	30	Pass
	5795	-12.572	-5.582	30	Pass
802.11ax80	5775	-15.266	-8.276	30	Pass

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor is compensated in the result. Ref Offset is The Duty Cycle Factor.
3. $\text{Power density(dBm/500kHz)} = \text{Power density(dBm/100kHz)} + 10 \cdot \log(500/100)$.

Test Graphs

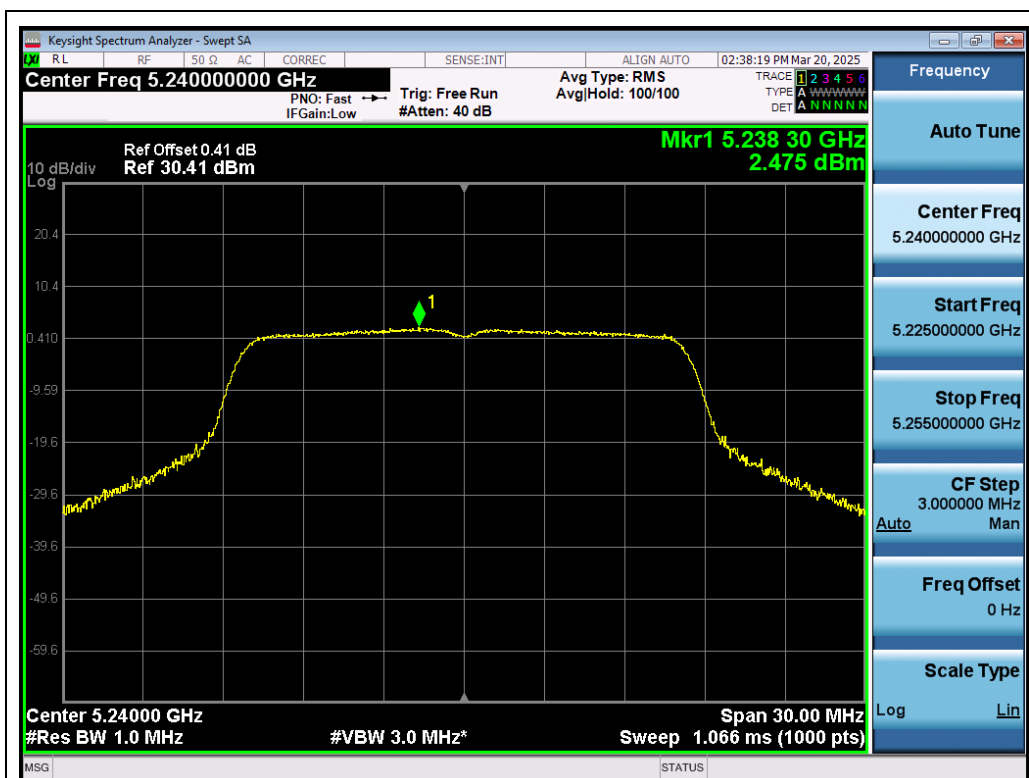
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_PSD



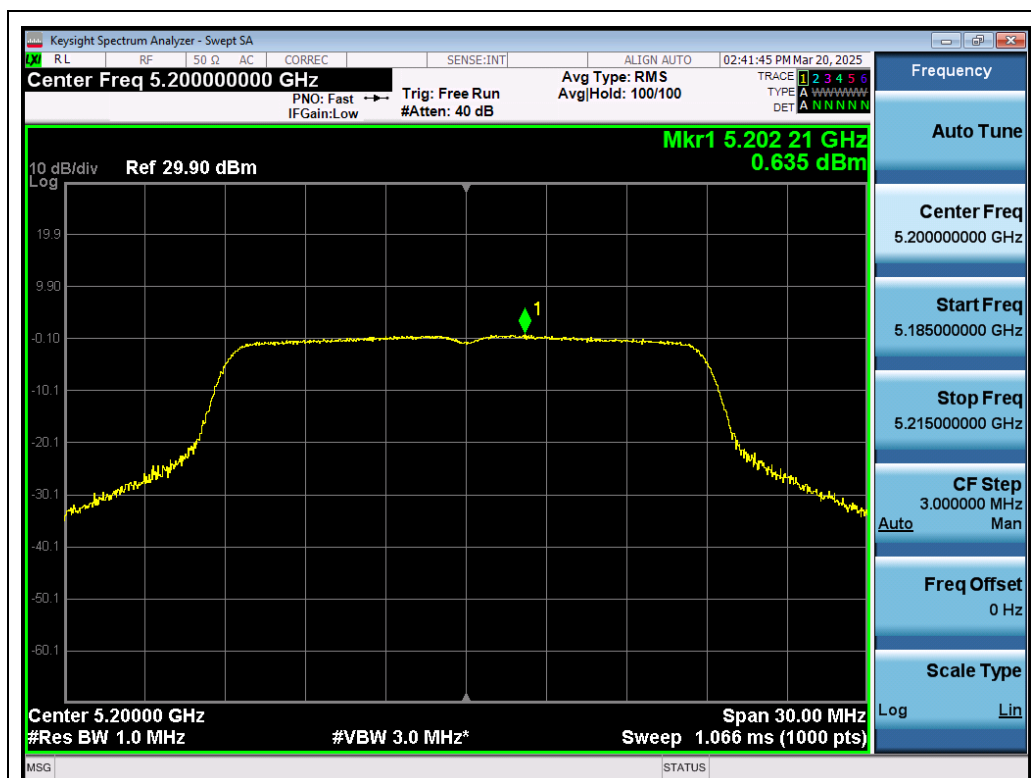
Test_Graph_802.11a_ANT1_5200_6Mbps_PSD



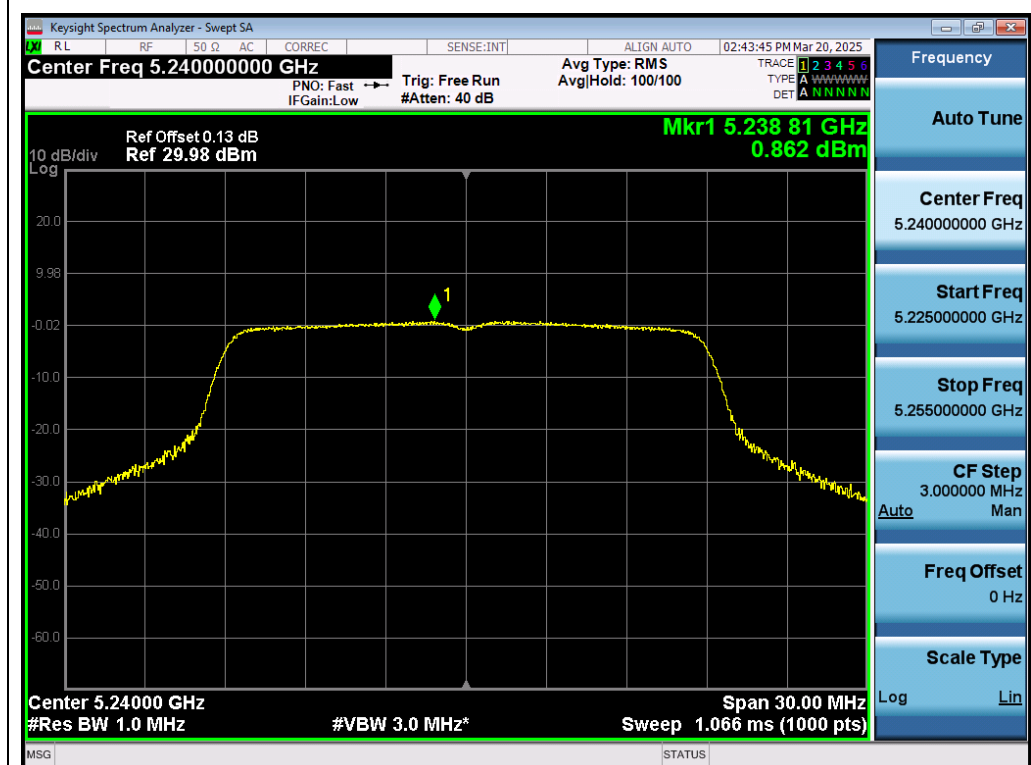
Test_Graph_802.11a_ANT1_5240_6Mbps_PSD



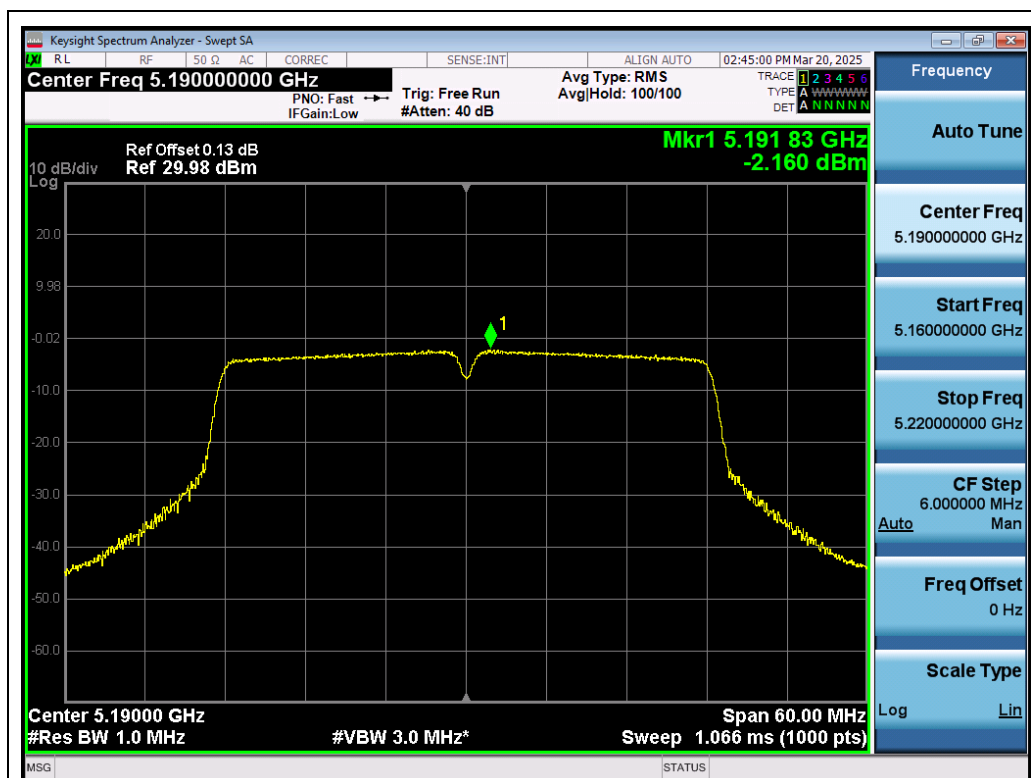
Test_Graph_802.11n20_ANT1_5180_MCS0_PSD



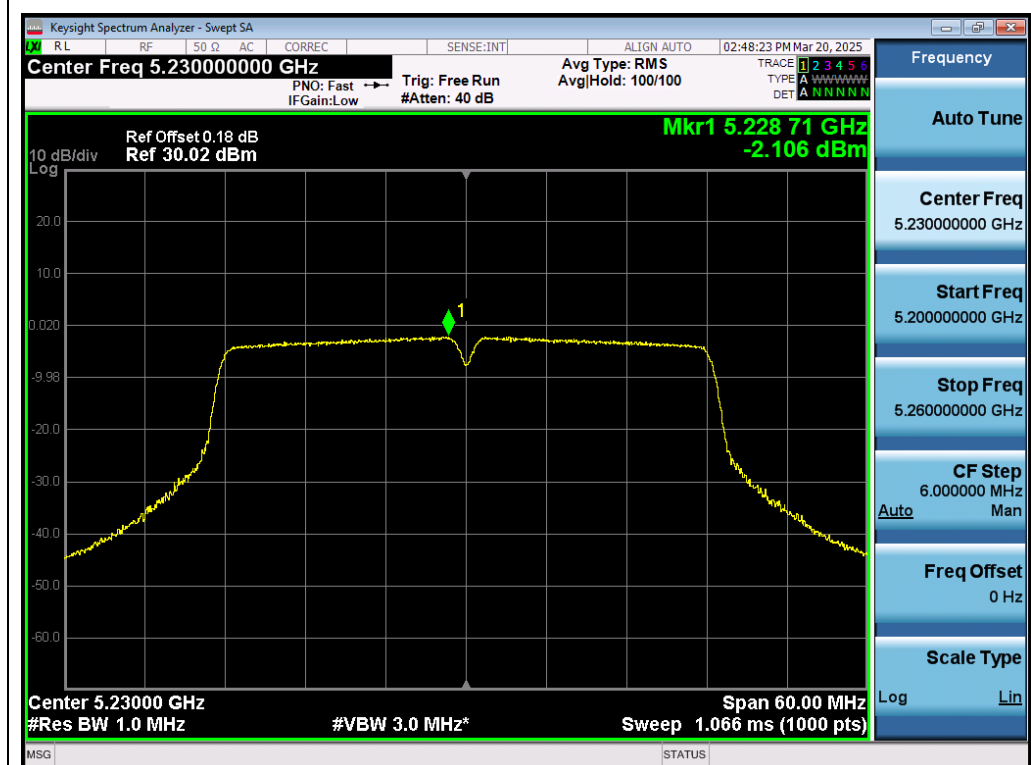
Test_Graph_802.11n20_ANT1_5200_MCS0_PSD



Test_Graph_802.11n20_ANT1_5240_MCS0_PSD



Test_Graph_802.11n40_ANT1_5190_MCS0_PSD



Test_Graph_802.11n40_ANT1_5230_MCS0_PSD