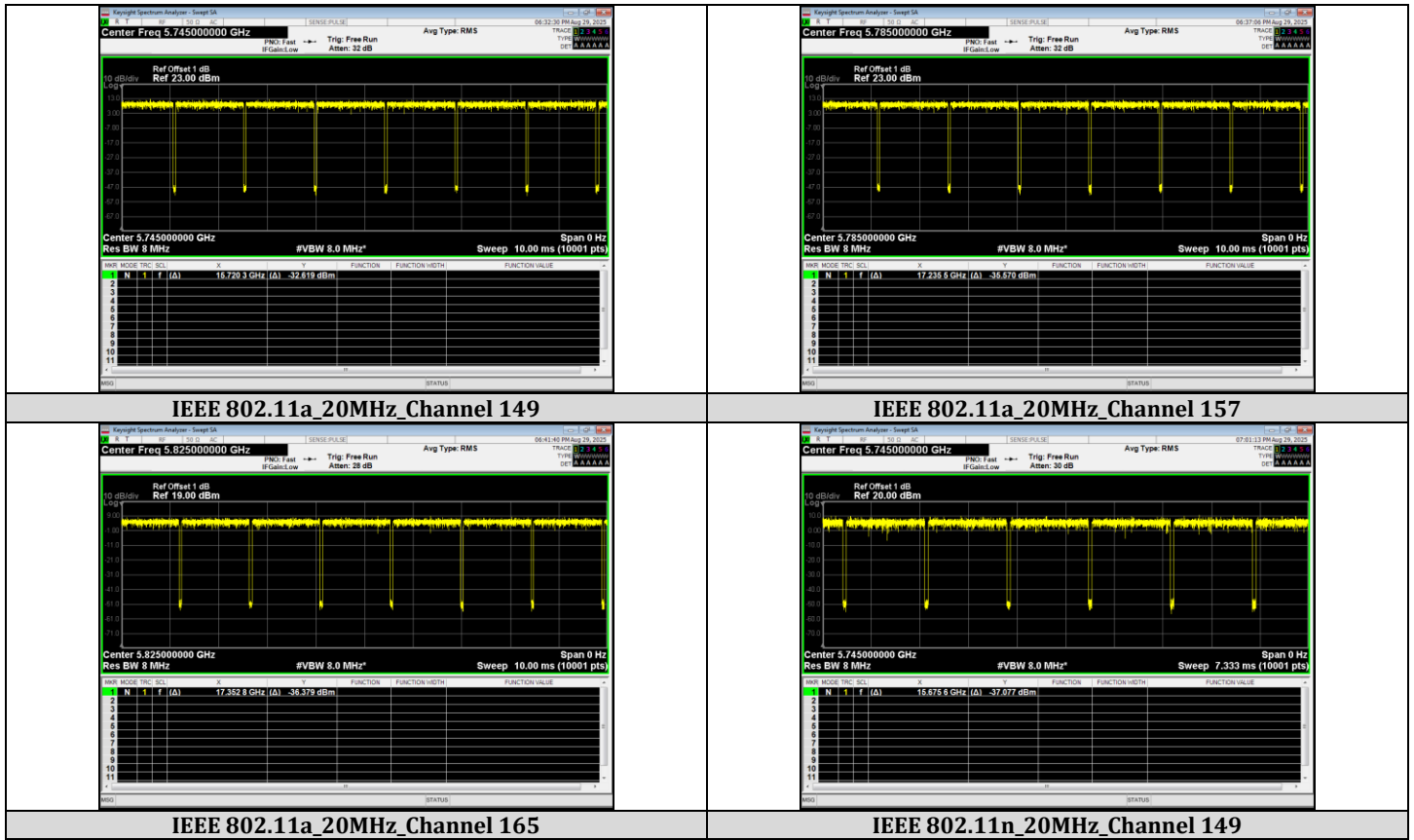
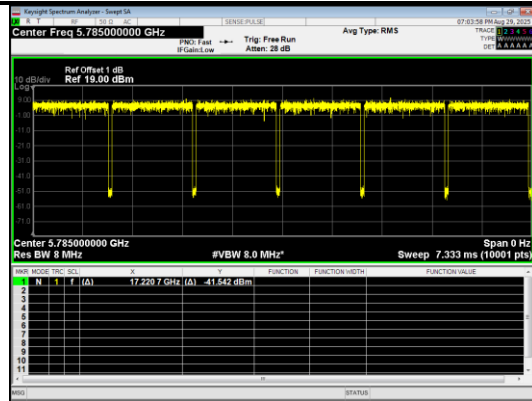


Duty Cycle Test Result

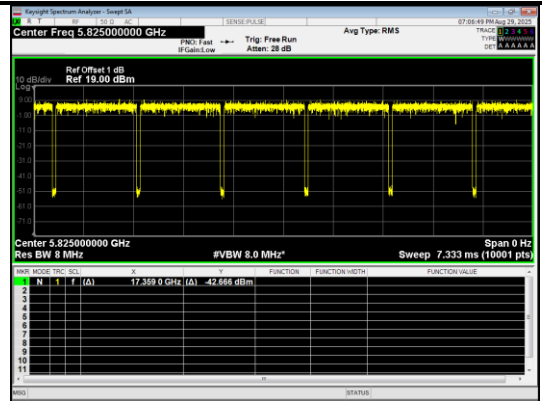
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	1	1.400	1.451	96.49	0.9649	0.1552	0.7143
		157		1.400	1.451	96.49	0.9649	0.1552	0.7143
		165		1.400	1.451	96.49	0.9649	0.1552	0.7143
IEEE 802.11n_20	149	1.184		1.236	95.79	0.9579	0.1868	0.8446	
	157	1.184		1.236	95.79	0.9579	0.1868	0.8446	
	165	1.184		1.236	95.79	0.9579	0.1868	0.8446	
IEEE 802.11n_40	151	0.589		0.640	91.95	0.9195	0.3645	1.6978	
	159	0.589		0.641	91.89	0.9189	0.3673	1.6978	
IEEE 802.11ac_20	MCS 0	149		1.191	1.242	95.87	0.9587	0.1832	0.8396
		157		1.192	1.243	95.87	0.9587	0.1832	0.8389
		165		1.192	1.243	95.87	0.9587	0.1832	0.8389
151		0.596		0.648	91.98	0.9198	0.3631	1.6779	
159		0.596		0.648	91.98	0.9198	0.3631	1.6779	
155		0.297		0.349	84.95	0.8495	0.7084	3.3670	

Test Graphs

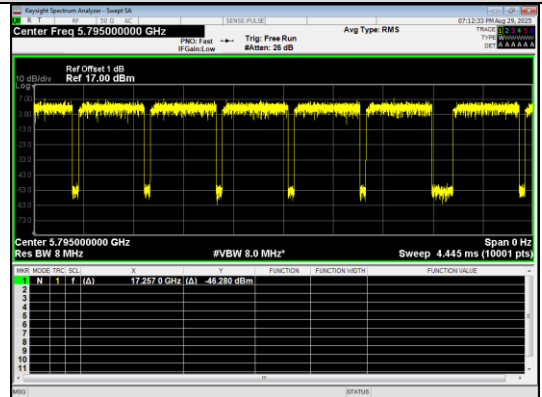
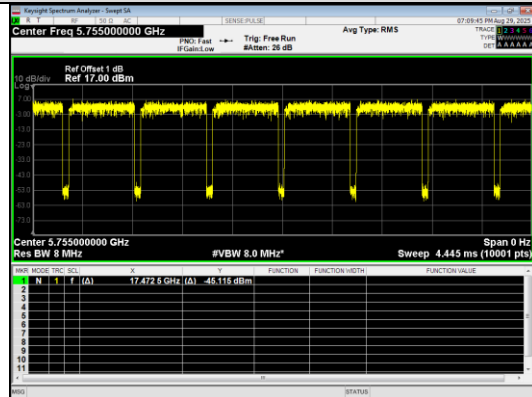




IEEE 802.11n 20MHz_Channel 157

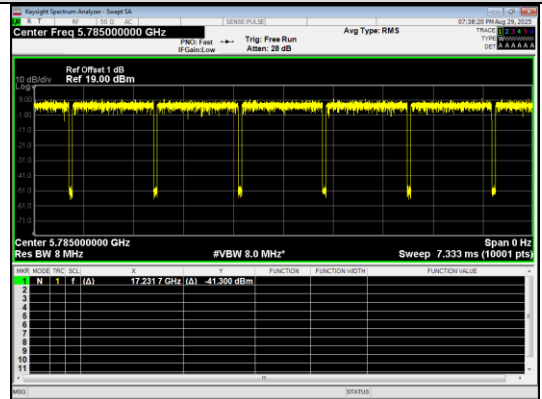
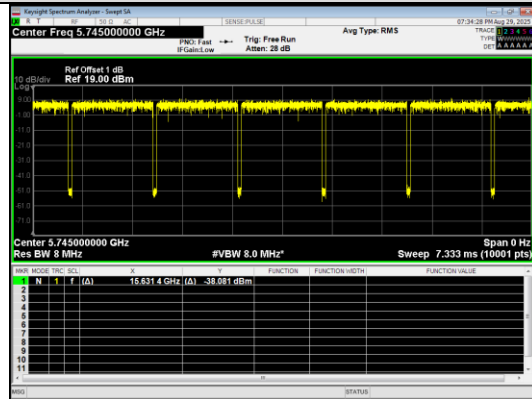


IEEE 802.11n 20MHz_Channel 165



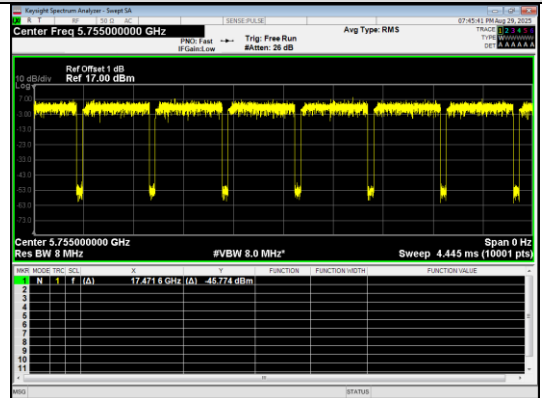
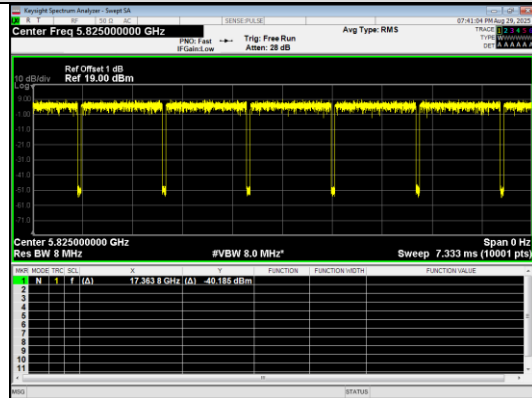
IEEE 802.11n 40MHz_Channel 151

IEEE 802.11n 40MHz_Channel 159



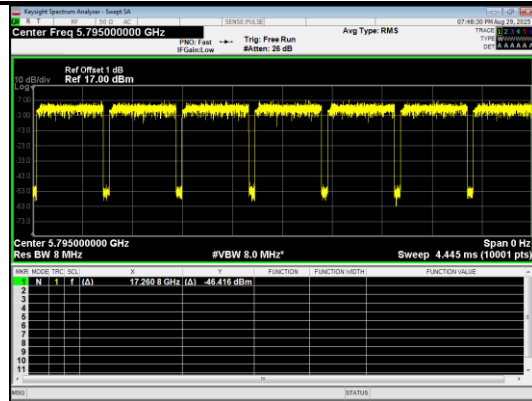
IEEE 802.11ac 20MHz_Channel 149

IEEE 802.11ac 20MHz_Channel 157

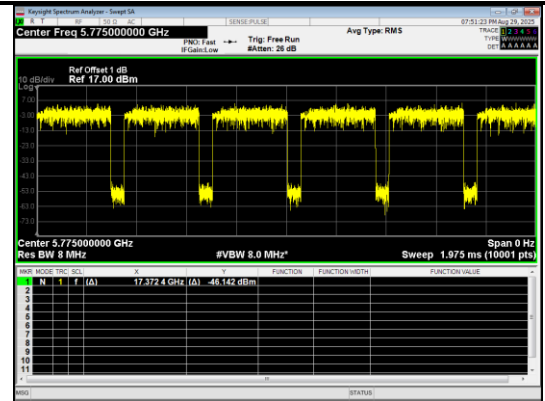


IEEE 802.11ac 20MHz_Channel 165

IEEE 802.11ac 40MHz_Channel 151



IEEE 802.11ac_40MHz_Channel 159



IEEE 802.11ac_80MHz_Channel 155

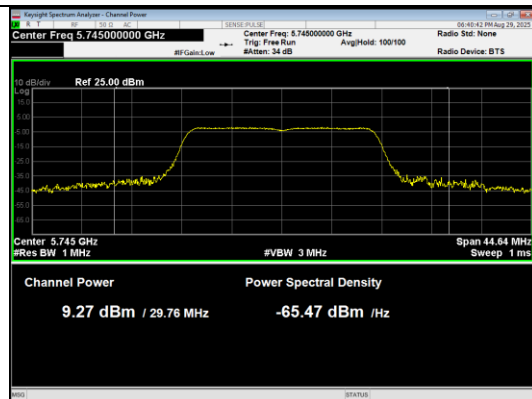


Conducted Output Power

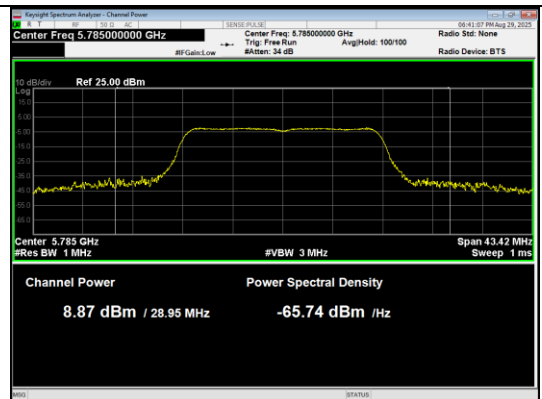
Conducted output power

Mode	Channel	Ant. 0 (dBm)	Corr'd Value Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	9.27	9.42	≤30	PASS
	157	8.87	9.03	≤30	PASS
	165	8.16	8.31	≤30	PASS
IEEE 802.11n_20	149	9.43	9.62	≤30	PASS
	157	9.15	9.33	≤30	PASS
	165	8.42	8.61	≤30	PASS
IEEE 802.11n_40	151	9.09	9.46	≤30	PASS
	159	8.59	8.96	≤30	PASS
IEEE 802.11ac_20	149	9.42	9.6	≤30	PASS
	157	9.12	9.3	≤30	PASS
	165	8.45	8.63	≤30	PASS
IEEE 802.11ac_40	151	9.06	9.43	≤30	PASS
	159	8.64	9.0	≤30	PASS
IEEE 802.11ac_80	155	8.49	9.2	≤30	PASS

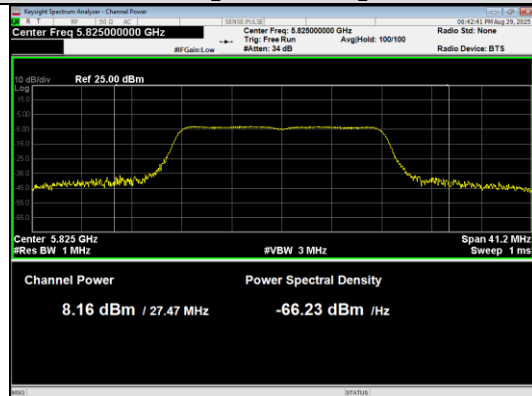
Note: Corrected Value = Antenna Power + Duty Cycle Factor.



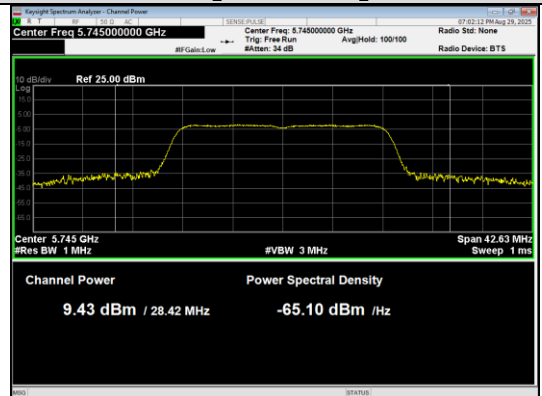
Conducted AVG output power
IEEE 802.11a_Channel 149_Antenna 0



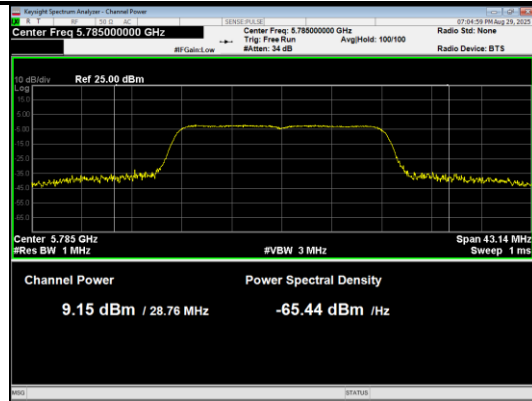
Conducted AVG output power
IEEE 802.11a_Channel 157_Antenna 0



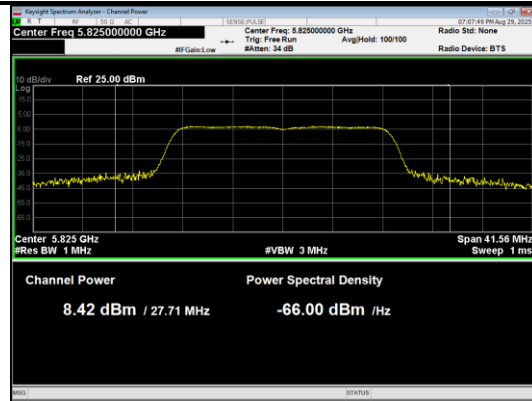
Conducted AVG output power
IEEE 802.11a_Channel 165_Antenna 0



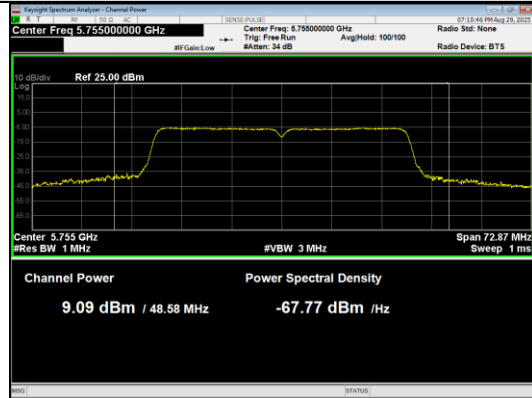
Conducted AVG output power
IEEE 802.11n_20_Channel 149_Antenna 0



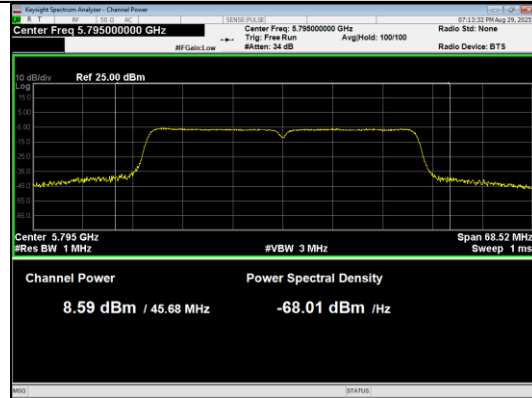
Conducted AVG output power
IEEE 802.11n_20_Channel 157_Antenna 0



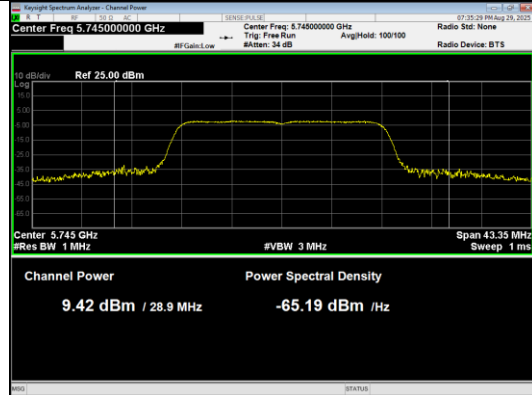
Conducted AVG output power
IEEE 802.11n_20_Channel 165_Antenna 0



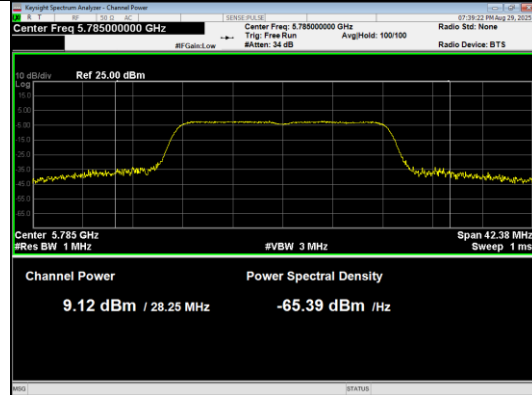
Conducted AVG output power
IEEE 802.11n_40_Channel 151_Antenna 0



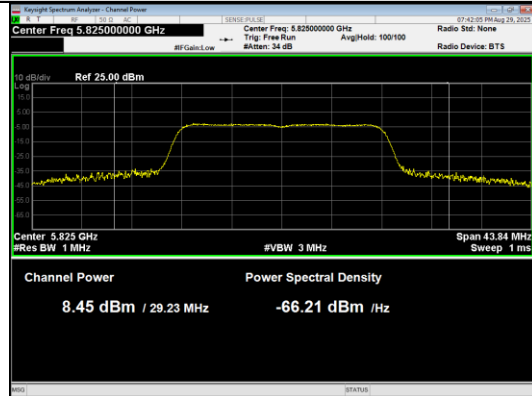
Conducted AVG output power
IEEE 802.11n_40_Channel 159_Antenna 0



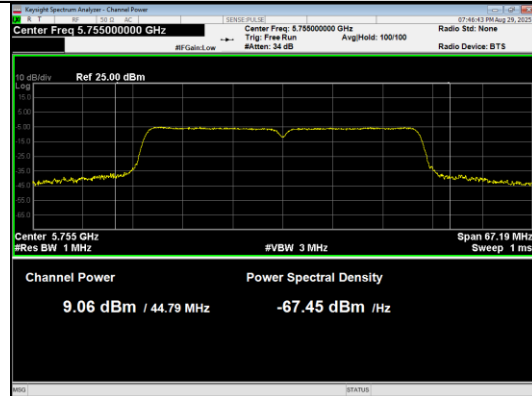
Conducted AVG output power
IEEE 802.11ac_20_Channel 149_Antenna 0



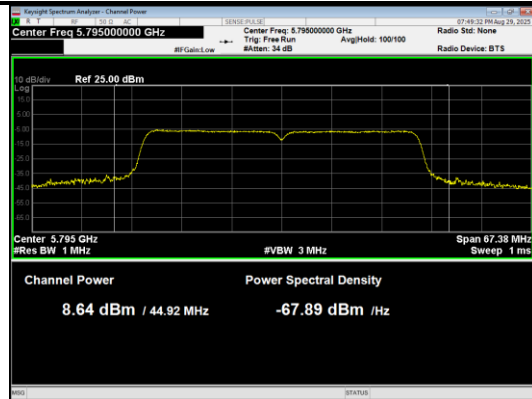
Conducted AVG output power
IEEE 802.11ac_20_Channel 157_Antenna 0



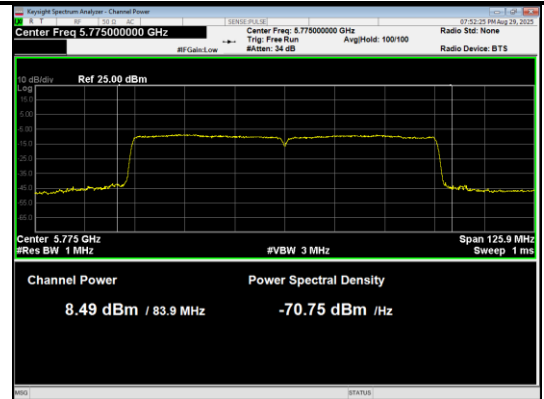
Conducted AVG output power
IEEE 802.11ac_20_Channel 165_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 151_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 159_Antenna 0



Conducted AVG output power
IEEE 802.11ac_80_Channel 155_Antenna 0

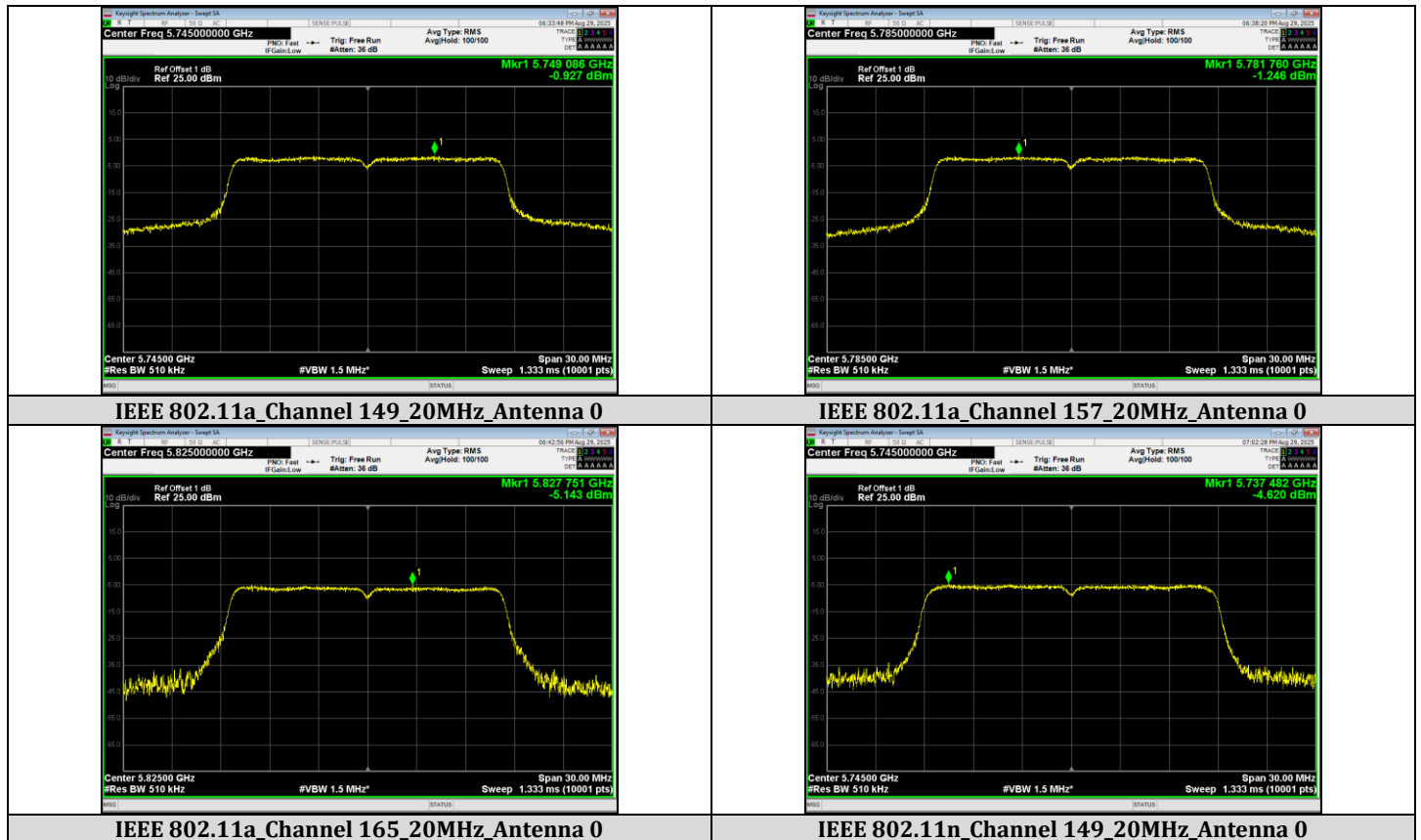
Peak Power Spectral Density

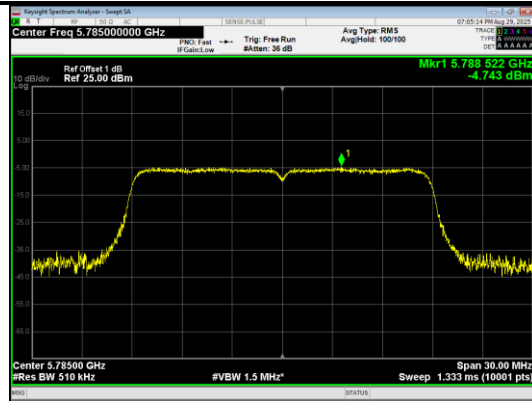
Test Result

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.51MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	-0.930	-0.861	30	PASS
	157	-1.250	-1.181		PASS
	165	-5.140	-5.071		PASS
IEEE 802.11n_20	149	-4.620	-4.519		PASS
	157	-4.740	-4.639		PASS
	165	-5.340	-5.239		PASS
IEEE 802.11n_40	151	-7.850	-7.572		PASS
	159	-8.130	-7.849		PASS
IEEE 802.11ac_20	149	-4.540	-4.443		PASS
	157	-4.830	-4.733		PASS
	165	-5.170	-5.073		PASS
IEEE 802.11ac_40	151	-7.720	-7.443		PASS
	159	-7.930	-7.653		PASS
IEEE 802.11ac_80	155	-11.260	-10.638		PASS

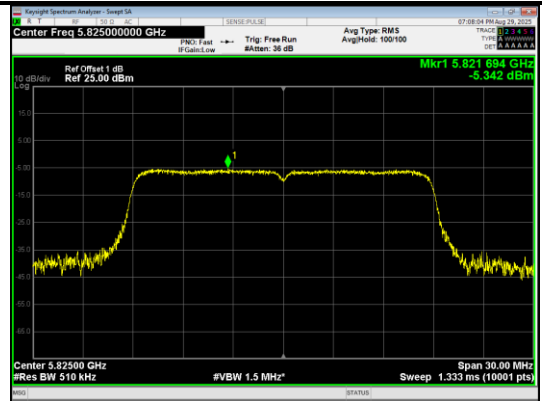
Note: Corr'd PSD = Meas PSD +Duty cycle Factor- BW factor($10 \cdot \log(510/500)$).

Test Graphs





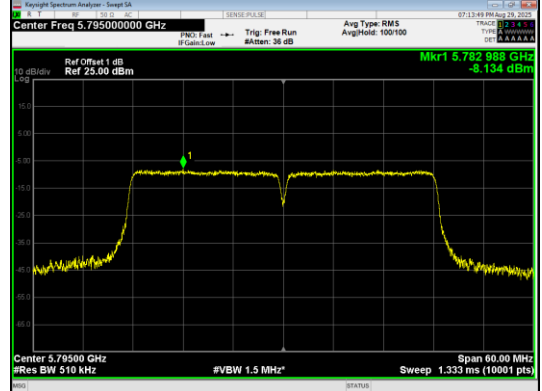
IEEE 802.11n_Channel 157_20MHz_Antenna 0



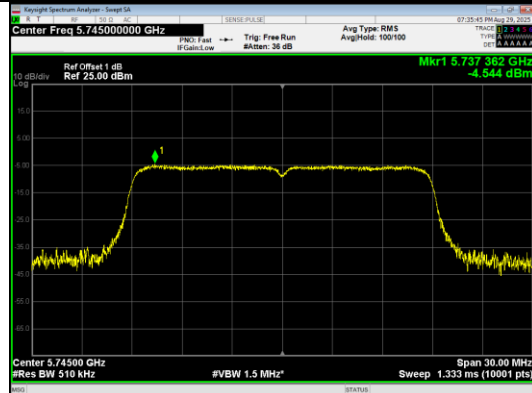
IEEE 802.11n_Channel 165_20MHz_Antenna 0



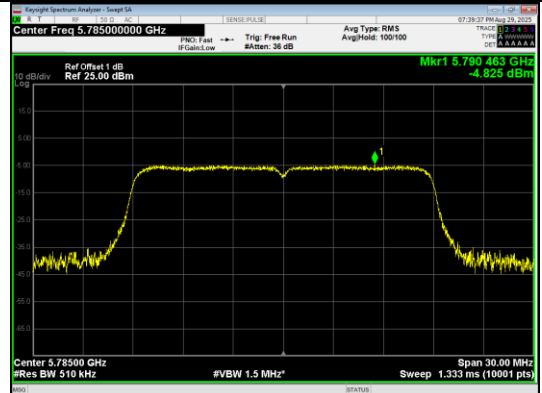
IEEE 802.11n_Channel 151_40MHz_Antenna 0



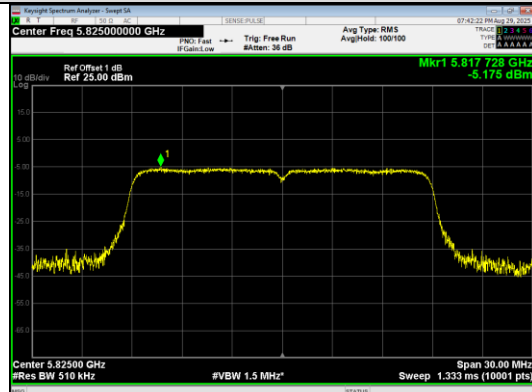
IEEE 802.11n_Channel 159_40MHz_Antenna 0



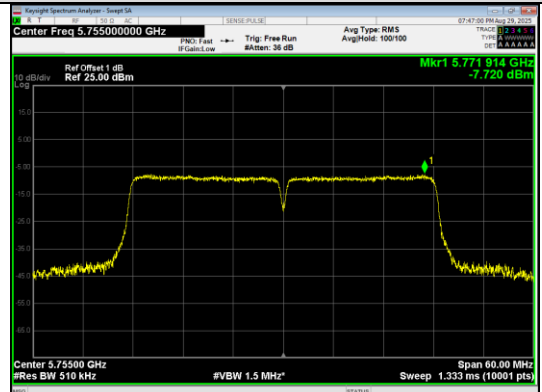
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



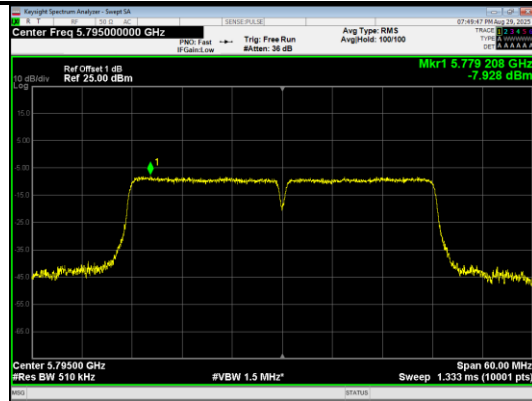
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



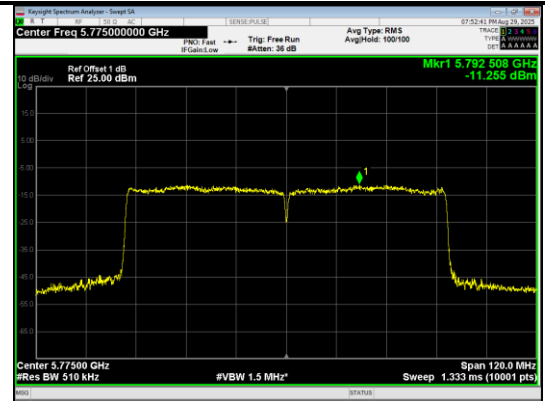
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



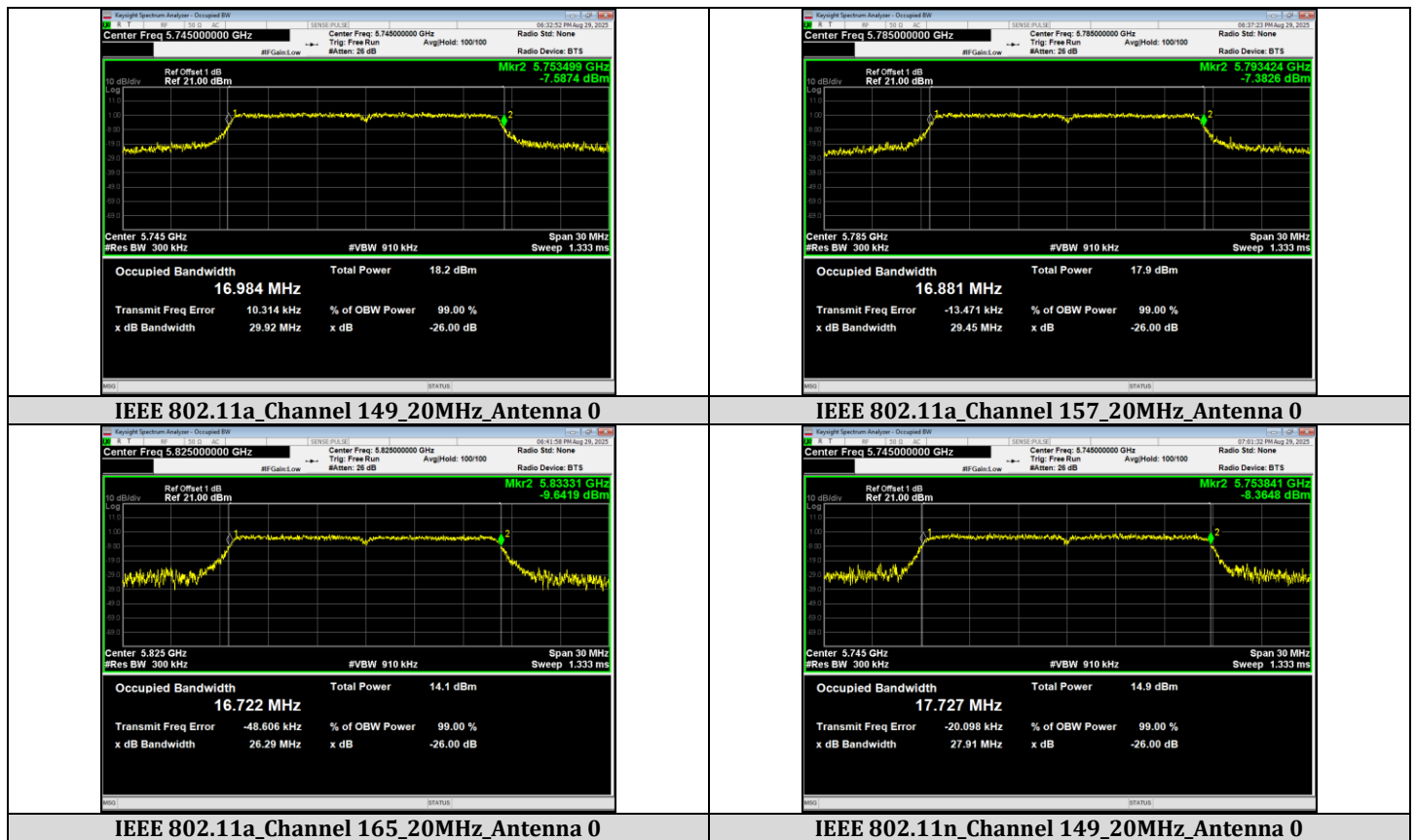
IEEE 802.11ac_Channel 159_40MHz_Antenna 0

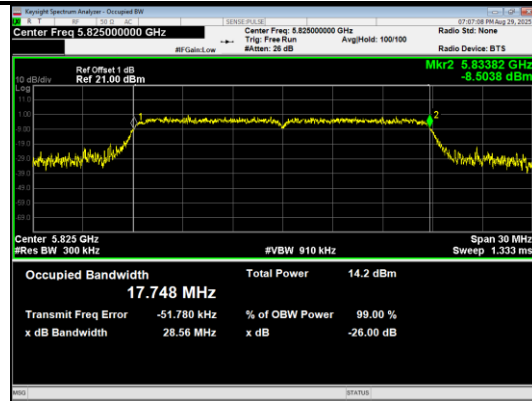
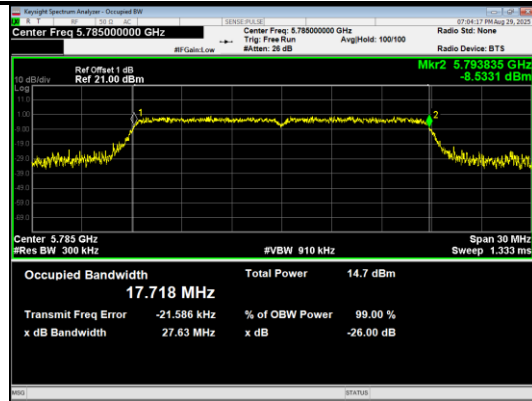


IEEE 802.11ac_Channel 155_80MHz_Antenna 0

**99% Bandwidth****Test Result**

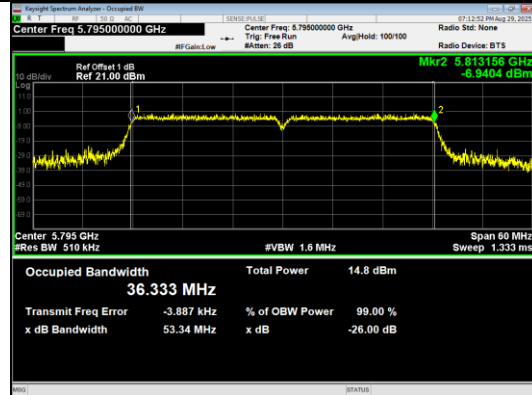
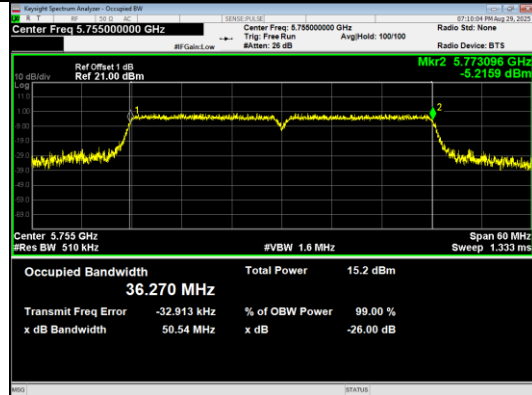
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	0	5745	16.984
	157		5785	16.881
	165		5825	16.722
IEEE 802.11n_20	149		5745	17.727
	157		5785	17.718
	165		5825	17.748
IEEE 802.11n_40	151		5755	36.270
	159		5795	36.333
IEEE 802.11ac_20	149		5745	17.702
	157		5785	17.730
	165		5825	17.755
IEEE 802.11ac_40	151		5755	36.304
	159		5795	36.287
IEEE 802.11ac_80	155		5775	75.578

Test Graphs



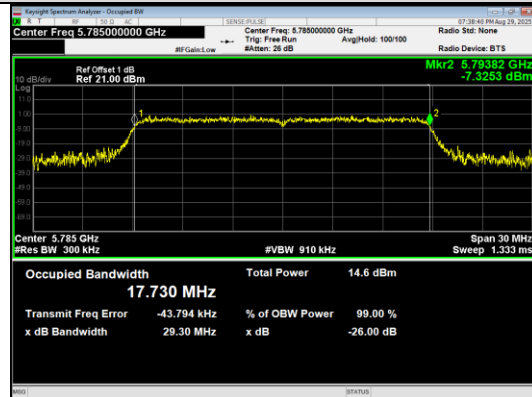
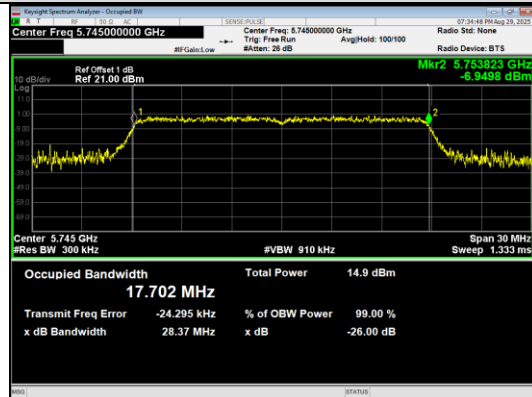
IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



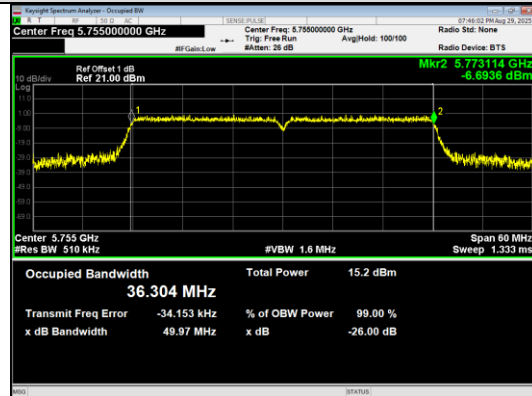
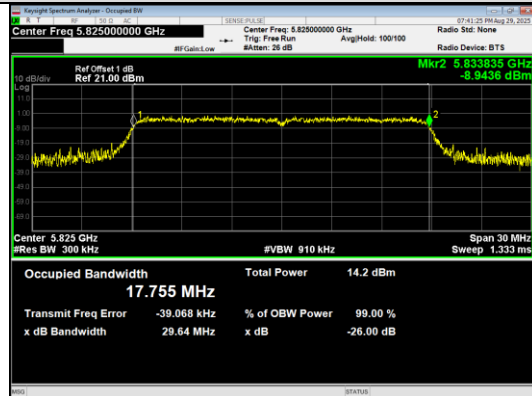
IEEE 802.11n_Channel 151_40MHz_Antenna 0

IEEE 802.11n_Channel 159_40MHz_Antenna 0



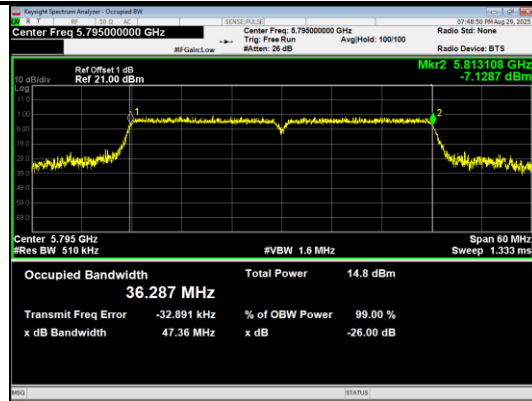
IEEE 802.11ac_Channel 149_20MHz_Antenna 0

IEEE 802.11ac_Channel 157_20MHz_Antenna 0

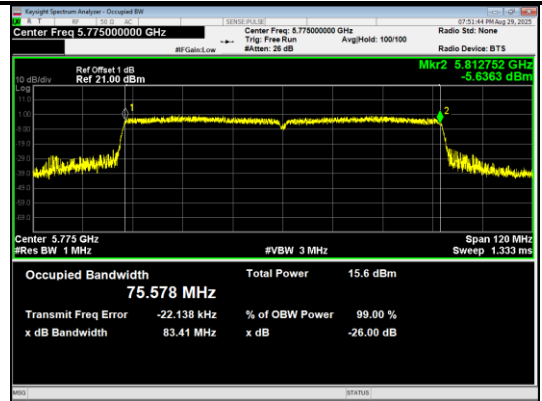


IEEE 802.11ac_Channel 165_20MHz_Antenna 0

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



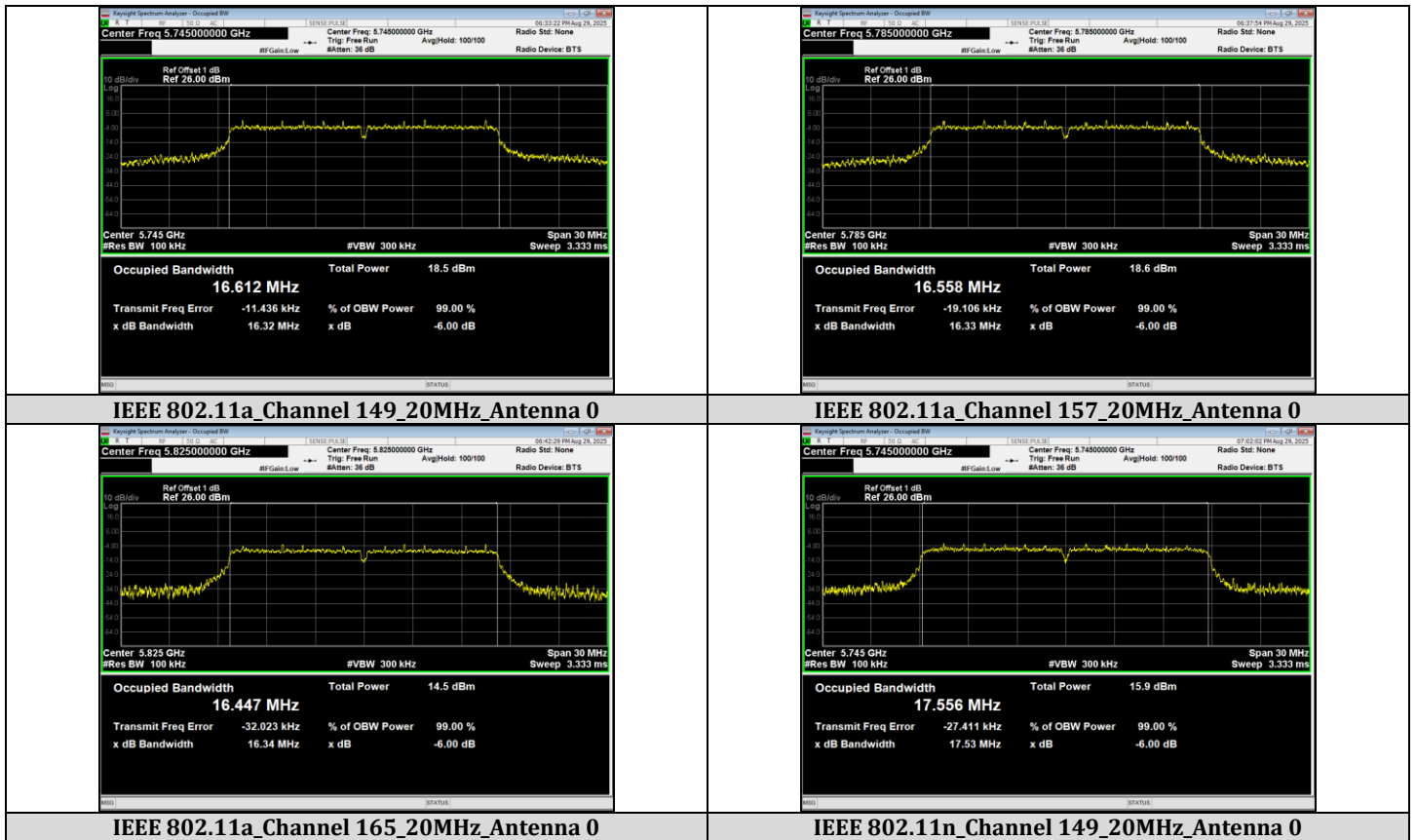
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

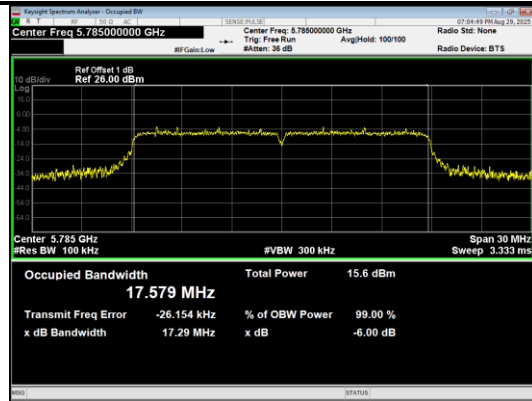
6dB Bandwidth

Test Result

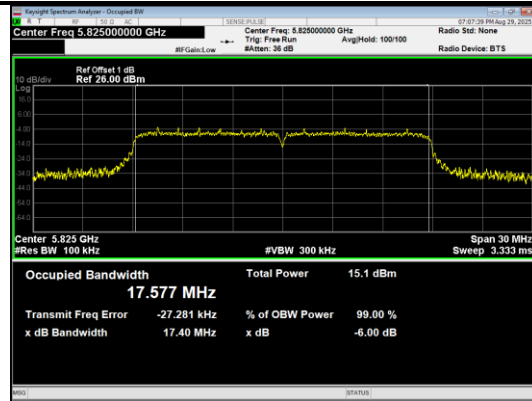
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	16.32	≥0.5	PASS
	157		5785	16.33		PASS
	165		5825	16.34		PASS
IEEE 802.11n_20	149		5745	17.53		PASS
	157		5785	17.29		PASS
	165		5825	17.40		PASS
IEEE 802.11n_40	151		5755	36.16		PASS
	159		5795	36.00		PASS
IEEE 802.11ac_20	149		5745	17.41		PASS
	157		5785	17.44		PASS
	165		5825	17.55		PASS
IEEE 802.11ac_40	151		5755	36.43		PASS
	159		5795	36.12		PASS
IEEE 802.11ac_80	155		5775	75.45		PASS

Test Graphs

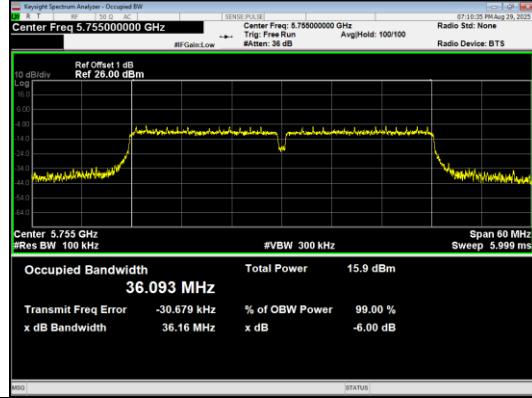




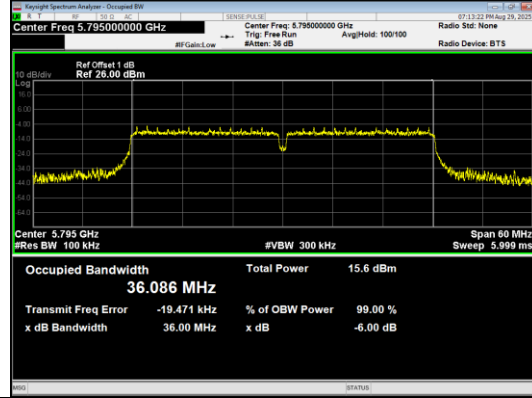
IEEE 802.11n_Channel 157_20MHz_Antenna 0



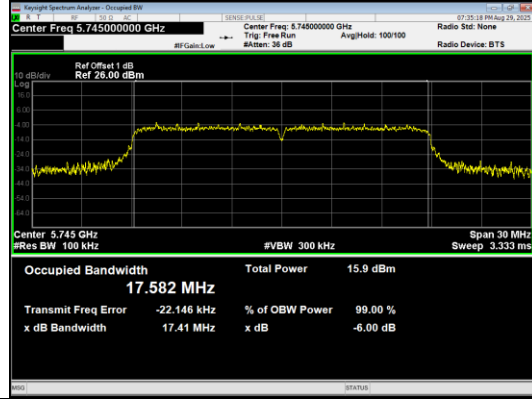
IEEE 802.11n_Channel 165_20MHz_Antenna 0



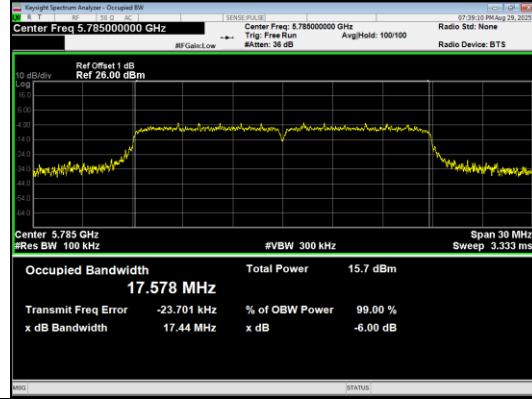
IEEE 802.11n_Channel 151_40MHz_Antenna 0



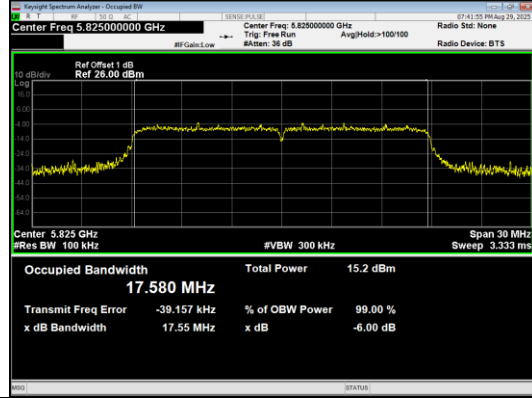
IEEE 802.11n_Channel 159_40MHz_Antenna 0



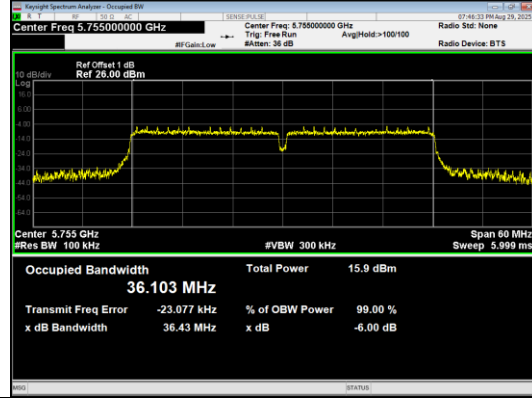
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



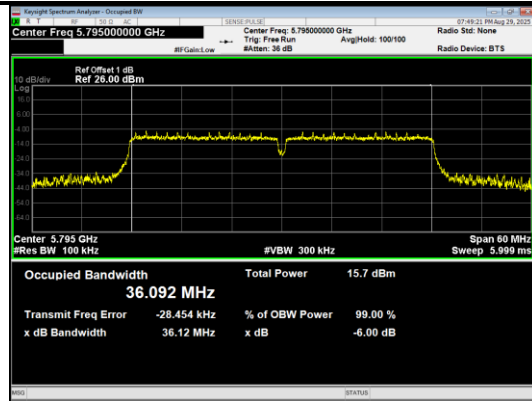
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



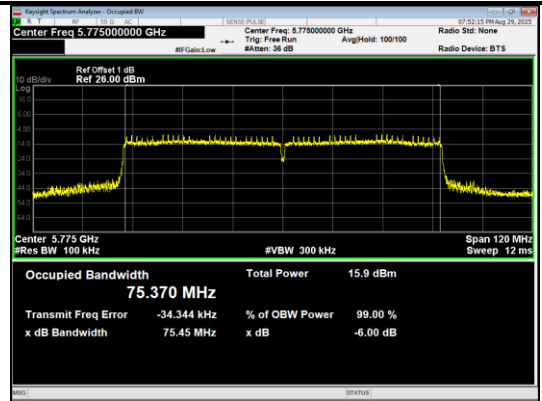
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



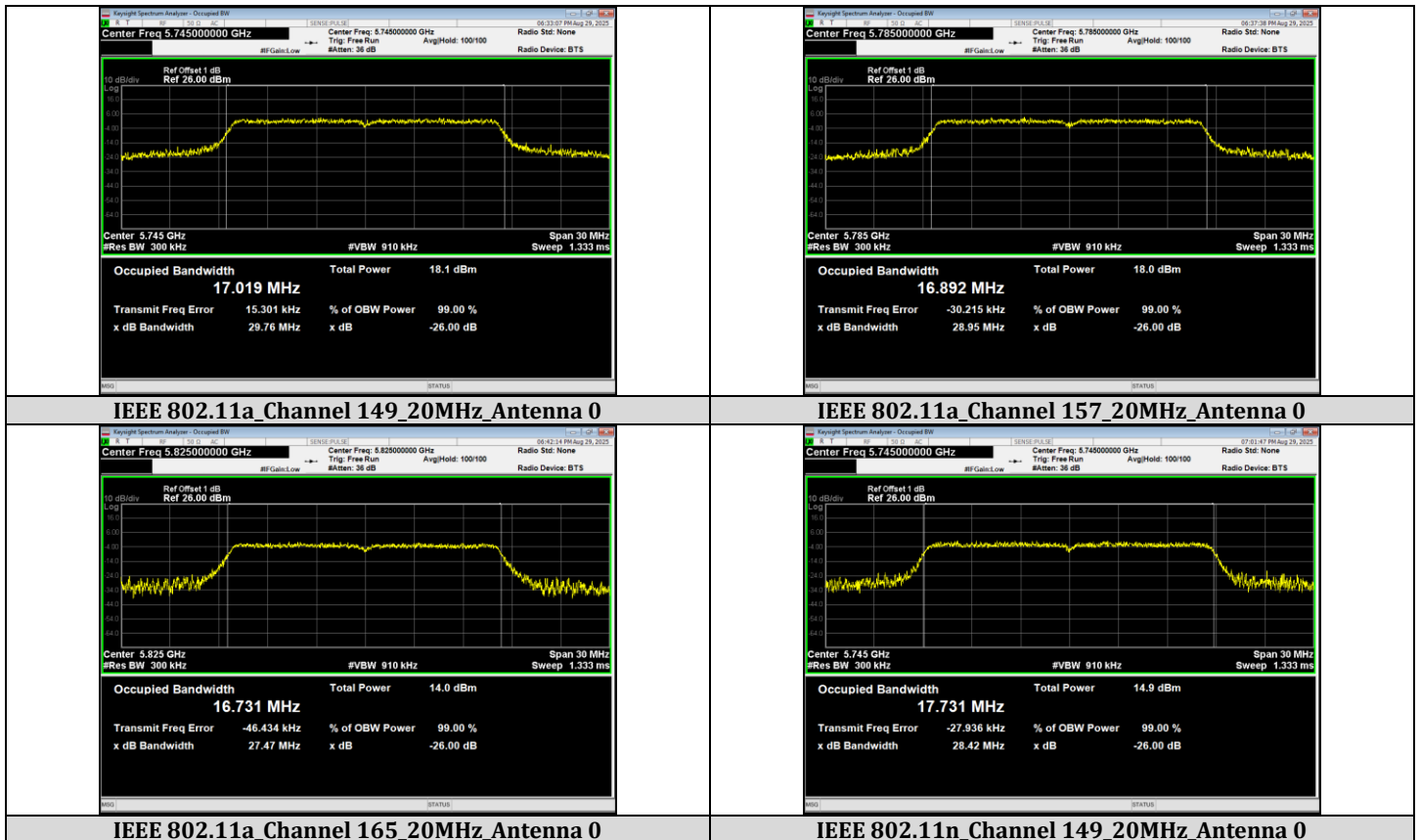
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

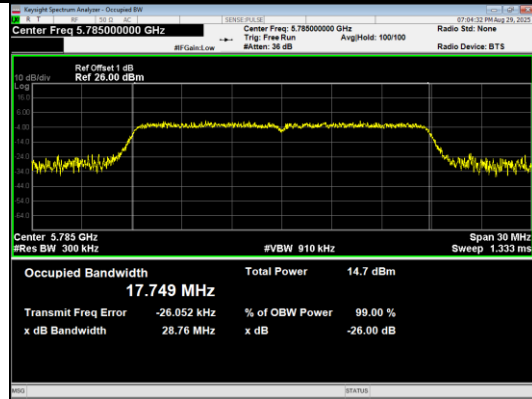
26dB Bandwidth

Test Result

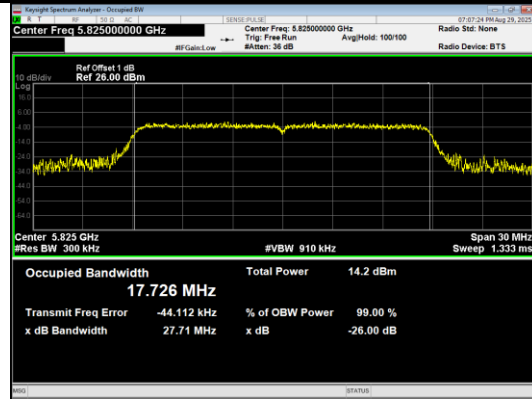
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	29.76	1.01
	157		5785	28.95	1.04
	165		5825	27.47	1.09
IEEE 802.11n_20	149		5745	28.42	1.06
	157		5785	28.76	1.04
	165		5825	27.71	1.08
IEEE 802.11n_40	151		5755	48.58	1.05
	159		5795	45.68	1.12
IEEE 802.11ac_20	149		5745	28.90	1.04
	157		5785	28.25	1.06
	165		5825	29.23	1.03
IEEE 802.11ac_40	151		5755	44.79	1.14
	159		5795	44.92	1.14
IEEE 802.11ac_80	155		5775	83.90	1.19

Test Graphs

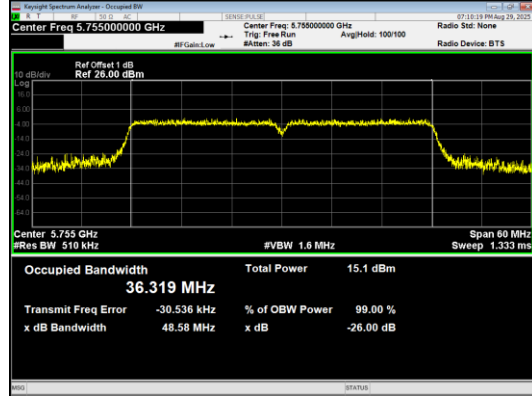




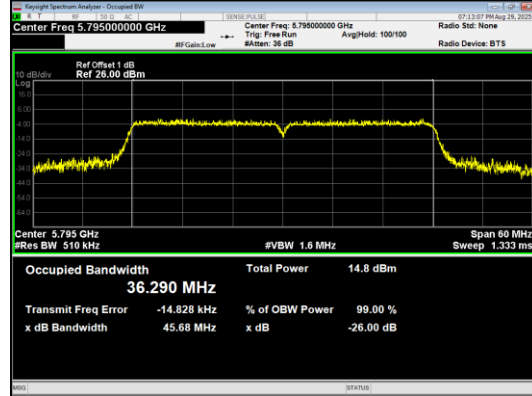
IEEE 802.11n_Channel 157_20MHz_Antenna 0



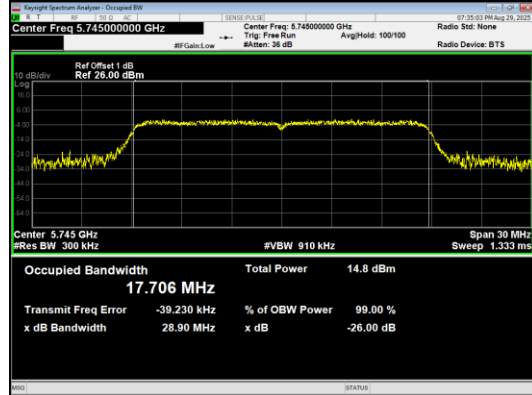
IEEE 802.11n_Channel 165_20MHz_Antenna 0



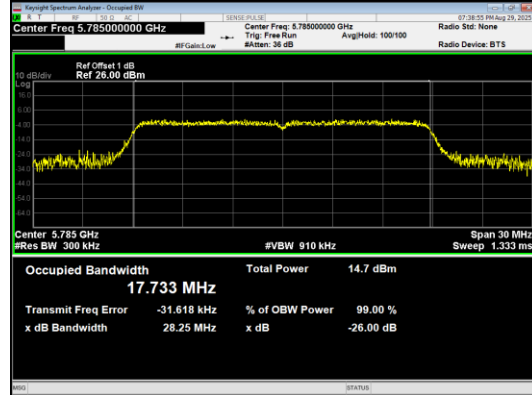
IEEE 802.11n_Channel 151_40MHz_Antenna 0



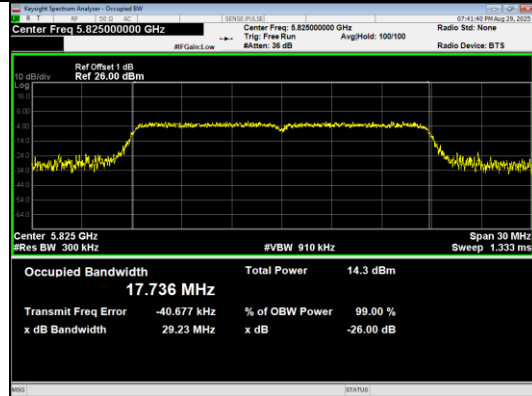
IEEE 802.11n_Channel 159_40MHz_Antenna 0



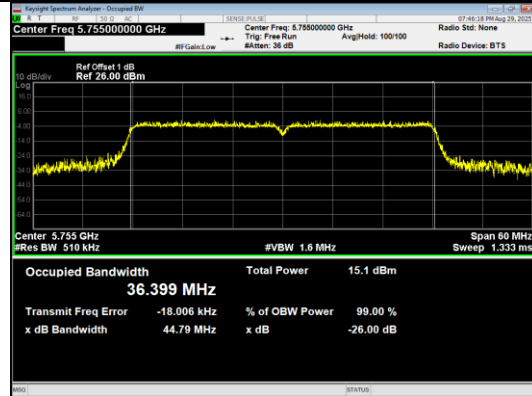
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



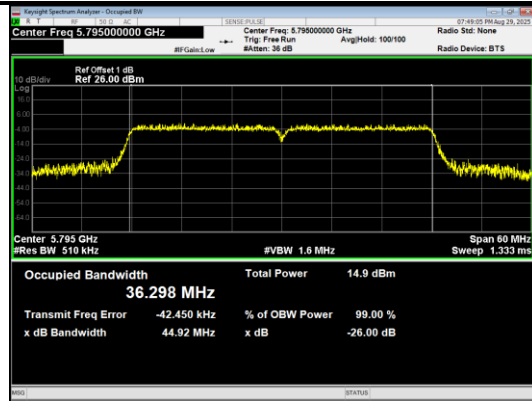
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



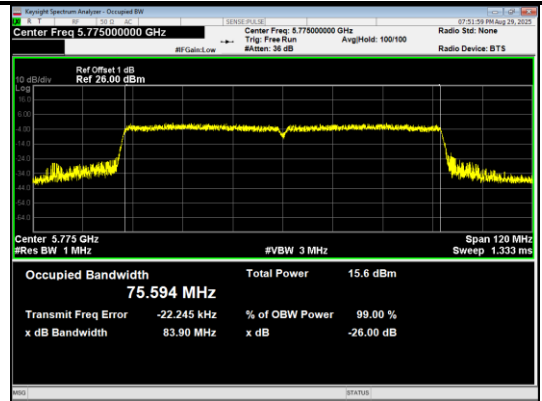
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Conducted Out Of Band Emission

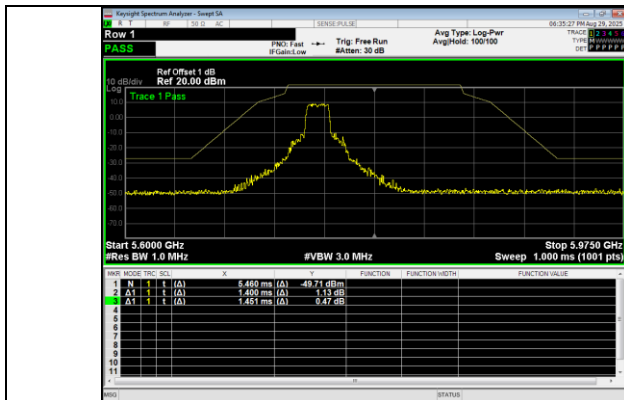
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11a	149	0	4596.11	-48.510	-27	-21.510	PASS
			5644.25	-48.224	-27	-21.224	PASS
			5725.00	-22.180	27	-49.180	PASS
			5850.00	-49.680	27	-76.680	PASS
			5972.00	-47.161	-27	-20.161	PASS
			17235.5	-35.570	-27	-8.570	PASS
	157		1752.25	-39.560	-27	-12.560	PASS
			5607.88	-48.438	-27	-21.438	PASS
			5725.00	-49.480	27	-76.480	PASS
			5850.00	-48.810	27	-75.810	PASS
			5946.50	-47.186	-27	-20.186	PASS
			17352.8	-36.380	-27	-9.380	PASS
	165		1746.49	-39.800	-27	-12.800	PASS
			5648.38	-48.451	-27	-21.451	PASS
			5725.00	-49.870	27	-76.870	PASS
			5850.00	-30.820	27	-57.820	PASS
			5940.88	-46.737	-27	-19.737	PASS
			17475.9	-45.150	-27	-18.150	PASS
IEEE 802.11n_20	149		1746.49	-48.560	-27	-21.560	PASS
			5630.75	-47.502	-27	-20.502	PASS
			5725.00	-26.040	27	-53.040	PASS
			5850.00	-47.800	27	-74.800	PASS
			5933.38	-47.306	-27	-20.306	PASS
			17220.7	-41.540	-27	-14.540	PASS
	157		4628.00	-49.810	-27	-22.810	PASS
			5610.88	-47.898	-27	-20.898	PASS
			5725.00	-49.700	27	-76.700	PASS
			5850.00	-49.350	27	-76.350	PASS
			5963.75	-47.776	-27	-20.776	PASS
			17359.0	-42.670	-27	-15.670	PASS
	165		4660.18	-50.500	-27	-23.500	PASS
			5648.75	-48.247	-27	-21.247	PASS
			5725.00	-48.880	27	-75.880	PASS
			5850.00	-32.030	27	-59.030	PASS
			5930.38	-46.244	-27	-19.244	PASS
			17472.5	-45.120	-27	-18.120	PASS
IEEE 802.11n_40	151		5291.73	-47.940	-27	-20.940	PASS
			5637.88	-47.964	-27	-20.964	PASS
			5725.00	-25.540	27	-52.540	PASS
			5850.00	-49.780	27	-76.780	PASS
			5961.12	-47.319	-27	-20.319	PASS
			17257.0	-46.280	-27	-19.280	PASS
	159		1746.21	-41.650	-27	-14.650	PASS
			5605.62	-48.565	-27	-21.565	PASS
			5725.00	-47.460	27	-74.460	PASS
			5850.00	-46.530	27	-73.530	PASS
			5931.50	-46.464	-27	-19.464	PASS
			17369.5	-47.240	-27	-20.240	PASS
IEEE 802.11ac_20	149		3402.98	-49.270	-27	-22.270	PASS
			5634.12	-47.573	-27	-20.573	PASS
			5725.00	-22.070	27	-49.070	PASS
			5850.00	-48.700	27	-75.700	PASS
			5961.88	-46.927	-27	-19.927	PASS
			17231.7	-41.300	-27	-14.300	PASS
	157		1746.21	-42.650	-27	-15.650	PASS

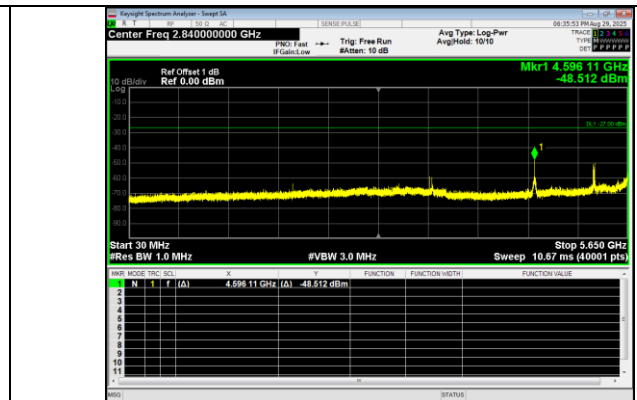
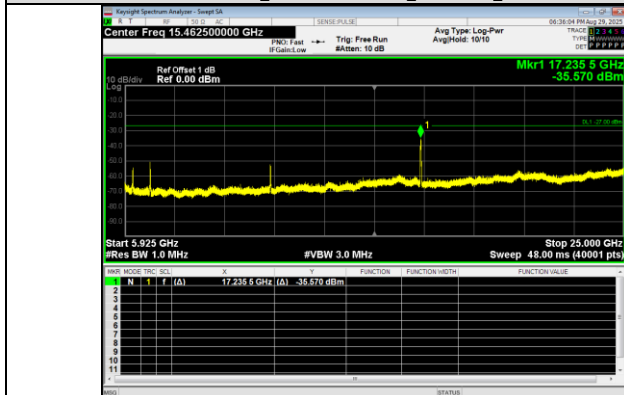


	165	5605.25	-47.948	-27	-20.948	PASS
		5725.00	-49.430	27	-76.430	PASS
		5850.00	-48.770	27	-75.770	PASS
		5954.38	-46.824	-27	-19.824	PASS
		17363.8	-40.190	-27	-13.190	PASS
		4660.04	-50.270	-27	-23.270	PASS
		5619.50	-48.345	-27	-21.345	PASS
		5725.00	-49.530	27	-76.530	PASS
		5850.00	-33.540	27	-60.540	PASS
		5927.75	-46.585	-27	-19.585	PASS
IEEE 802.11ac_40	151	17471.6	-45.770	-27	-18.770	PASS
		5291.02	-48.080	-27	-21.080	PASS
		5643.12	-47.917	-27	-20.918	PASS
		5725.00	-25.120	27	-52.120	PASS
		5850.00	-48.560	27	-75.560	PASS
		5952.50	-47.238	-27	-20.238	PASS
		17260.8	-46.420	-27	-19.420	PASS
	159	5332.47	-47.640	-27	-20.640	PASS
		5645.38	-47.623	-27	-20.623	PASS
		5725.00	-47.860	27	-74.860	PASS
		5850.00	-44.650	27	-71.650	PASS
		5930.00	-47.363	-27	-20.363	PASS
		17372.4	-46.140	-27	-19.140	PASS
IEEE 802.11ac_80	155	1757.03	-44.740	-27	-17.740	PASS
		5649.12	-45.833	-27	-18.833	PASS
		5725.00	-28.220	27	-55.220	PASS
		5850.00	-37.920	27	-64.920	PASS
		5960.00	-47.003	-27	-20.003	PASS
		17365.7	-44.900	-27	-17.900	PASS

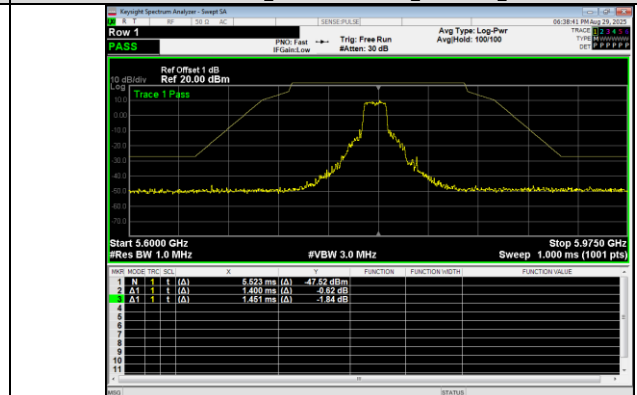
Test Graphs



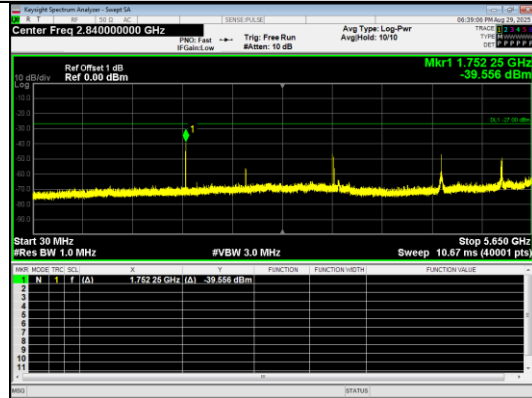
Out Of Band Emission
IEEE 802.11a_Channel 149_20MHz_Antenna 0



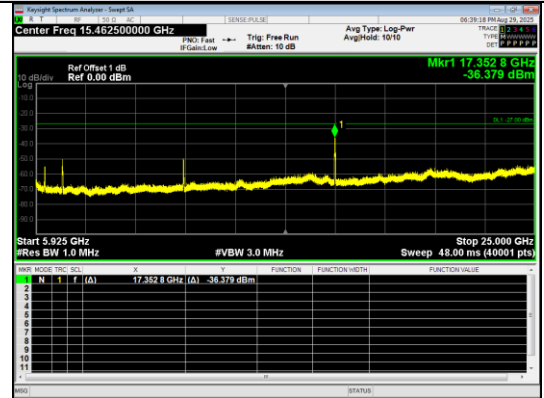
Spurious Emission:30.0~5650 MHz
IEEE 802.11a_Channel 149_20MHz_Antenna 0



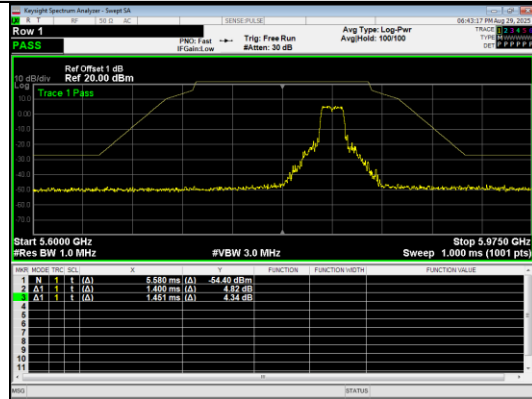
Spurious Emission:5925~25000.0 MHz IEEE 802.11a_Channel 149_20MHz_Antenna 0



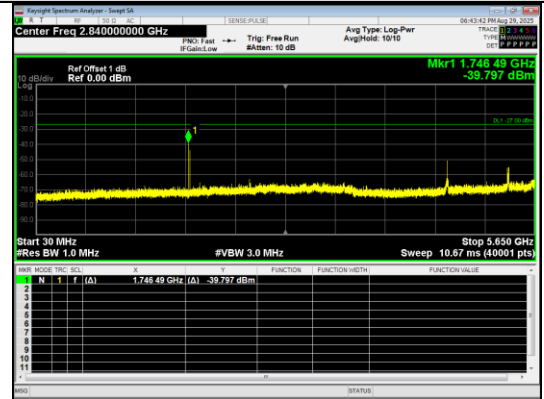
Out Of Band Emission IEEE 802.11a_Channel 157_20MHz_Antenna 0



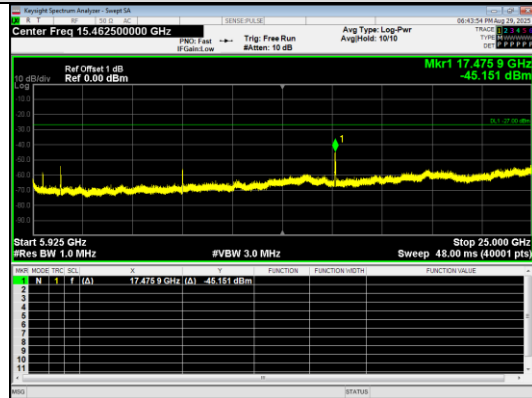
Spurious Emission:30.0~5650 MHz IEEE 802.11a_Channel 157_20MHz_Antenna 0



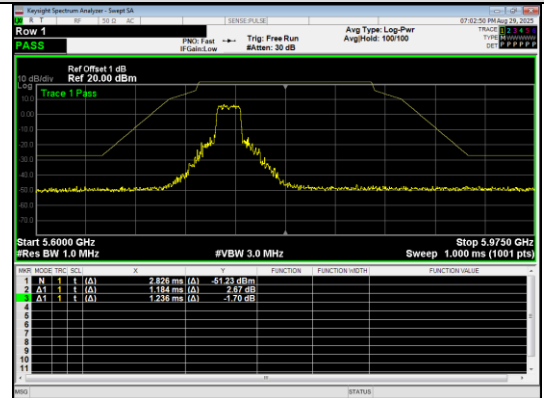
Spurious Emission:5925~25000.0 MHz IEEE 802.11a_Channel 157_20MHz_Antenna 0



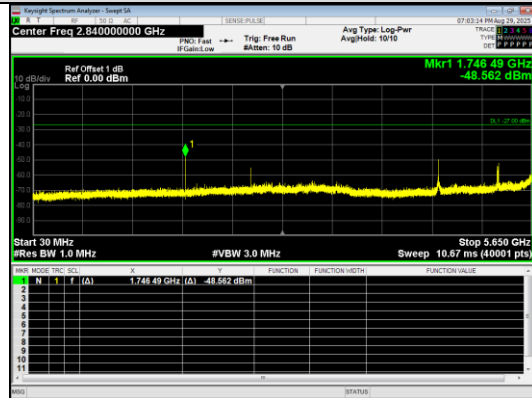
Out Of Band Emission IEEE 802.11a_Channel 165_20MHz_Antenna 0



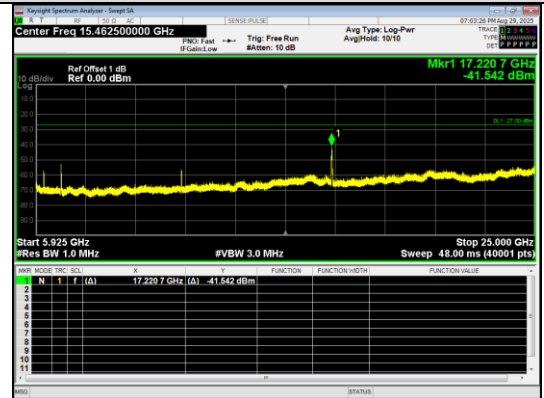
Spurious Emission:30.0~5650 MHz IEEE 802.11a_Channel 165_20MHz_Antenna 0



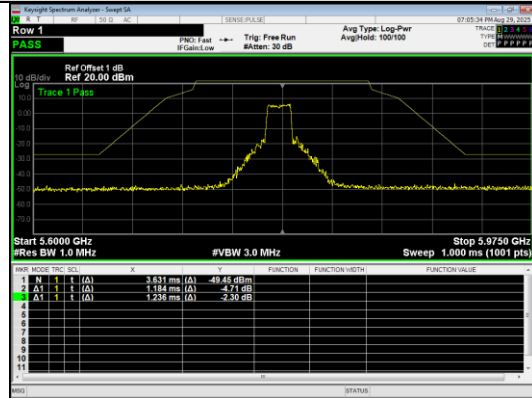
Spurious Emission:5925~25000.0 MHz IEEE 802.11a_Channel 165_20MHz_Antenna 0



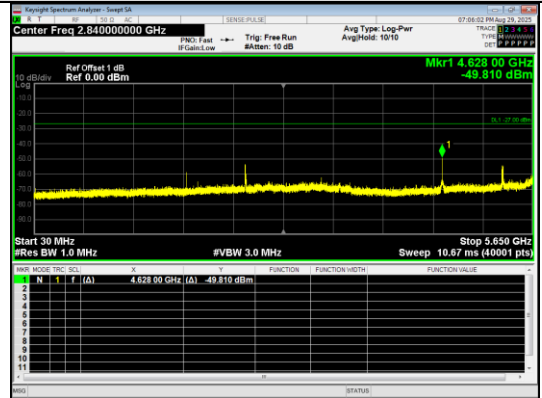
Out Of Band Emission IEEE 802.11n_Channel 149_20MHz_Antenna 0



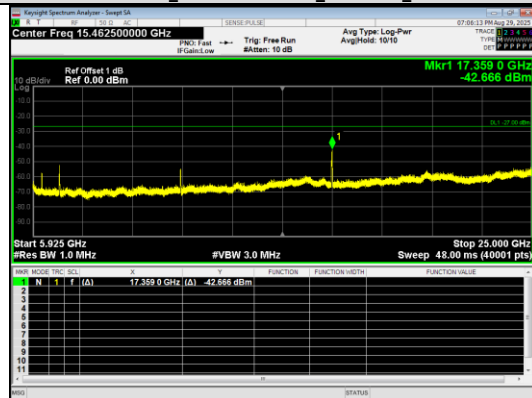
Spurious Emission:30.0~5650 MHz IEEE 802.11n_Channel 149_20MHz_Antenna 0



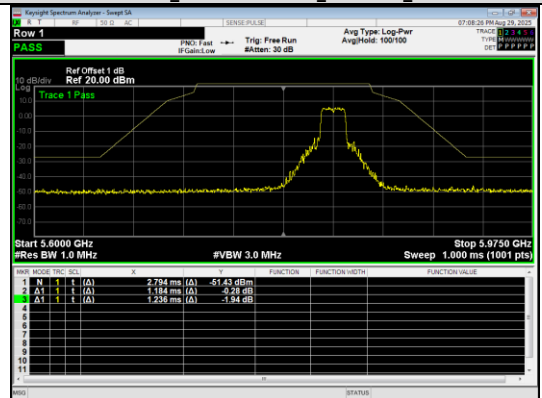
Spurious Emission:5925~25000.0 MHz IEEE 802.11n_Channel 149_20MHz_Antenna 0



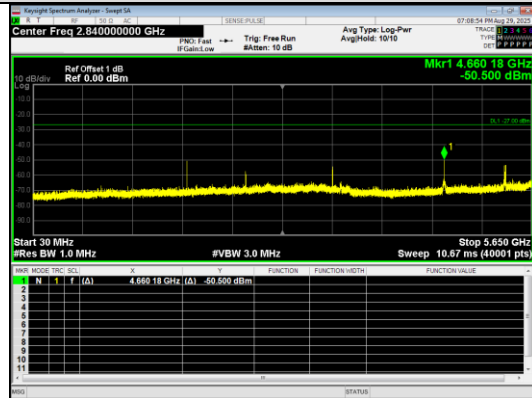
Out Of Band Emission IEEE 802.11n_Channel 157_20MHz_Antenna 0



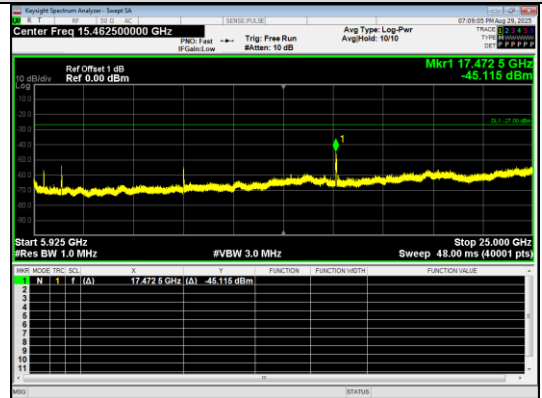
Spurious Emission:30.0~5650 MHz IEEE 802.11n_Channel 157_20MHz_Antenna 0



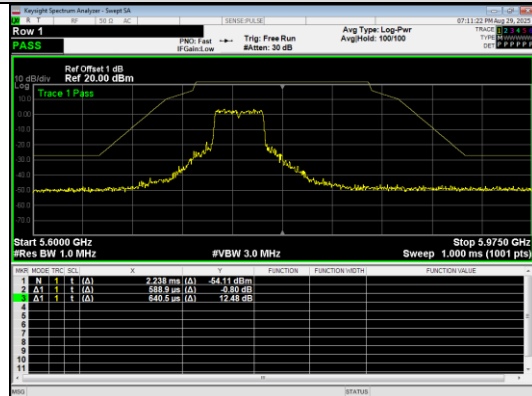
Spurious Emission:5925~25000.0 MHz IEEE 802.11n_Channel 157_20MHz_Antenna 0



Out Of Band Emission IEEE 802.11n_Channel 165_20MHz_Antenna 0



Spurious Emission:30.0~5650 MHz IEEE 802.11n_Channel 165_20MHz_Antenna 0



Spurious Emission:5925~25000.0 MHz IEEE 802.11n_Channel 165_20MHz_Antenna 0

