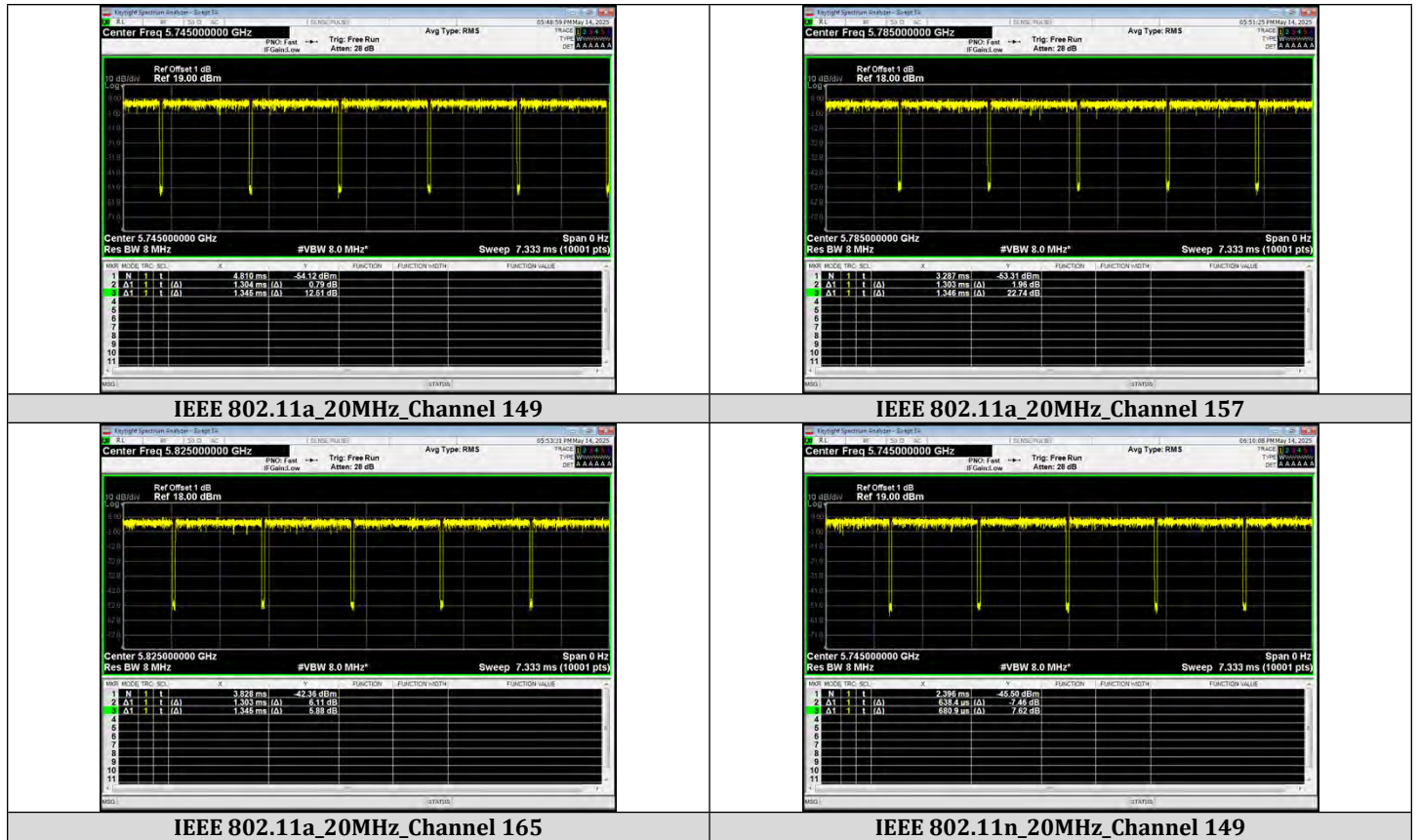


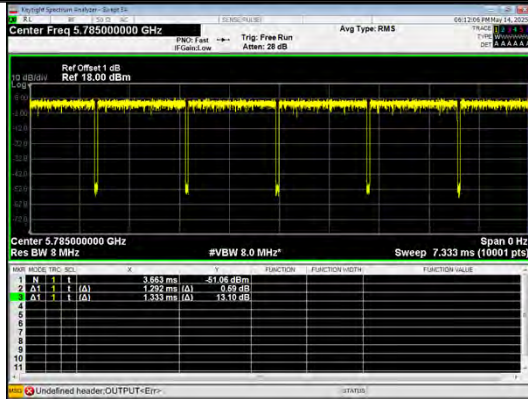
Duty Cycle

Test Result

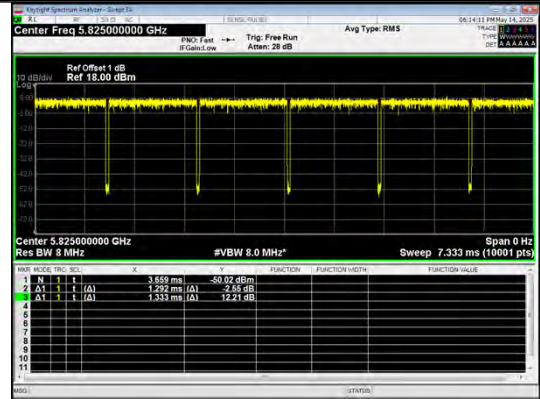
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	1	1.303	1.346	96.86	0.9686	0.1386	0.7675
		157		1.303	1.345	96.85	0.9685	0.139	0.7675
		165		1.303	1.346	96.86	0.9686	0.1386	0.7675
IEEE 802.11n_20		149		1.292	1.333	96.88	0.9688	0.1377	0.7740
		157		1.292	1.333	96.88	0.9688	0.1377	0.7740
		165		1.291	1.333	96.83	0.9683	0.1399	0.7746
IEEE 802.11n_40		151		0.638	0.681	93.75	0.9375	0.2803	1.5674
		159		0.639	0.681	93.76	0.9376	0.2798	1.5649
		149		1.316	1.357	96.98	0.9698	0.1332	0.7599
IEEE 802.11ac_20	MCS 0	157		1.316	1.357	96.98	0.9698	0.1332	0.7599
		165		1.316	1.358	96.91	0.9691	0.1363	0.7599
		151		0.654	0.697	93.90	0.9390	0.2733	1.5291
IEEE 802.11ac_40		159		0.654	0.696	93.90	0.9390	0.2733	1.5291
		155		0.325	0.369	88.17	0.8817	0.5468	3.0769

Test Graphs

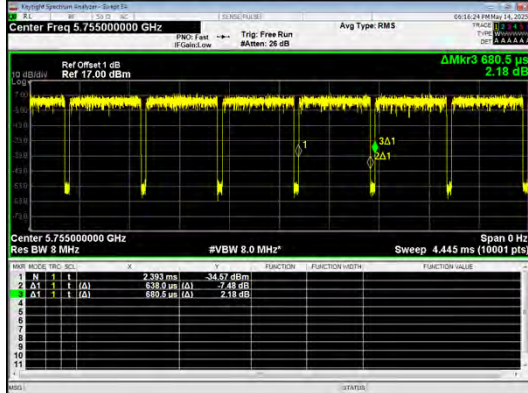




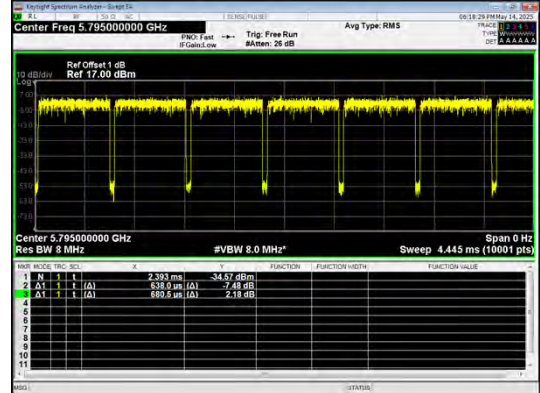
IEEE 802.11n 20MHz_Channel 157



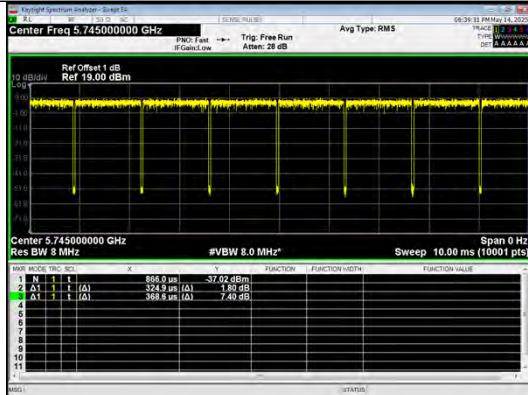
IEEE 802.11n 20MHz_Channel 165



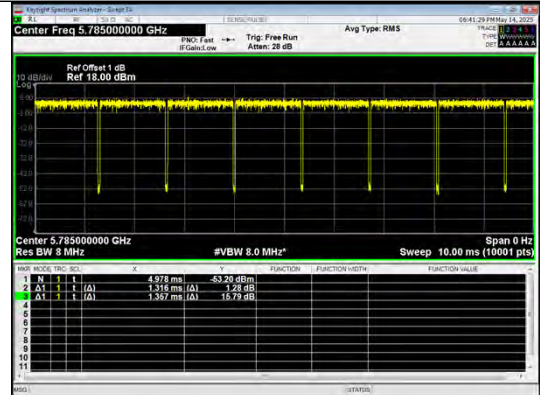
IEEE 802.11n 40MHz_Channel 151



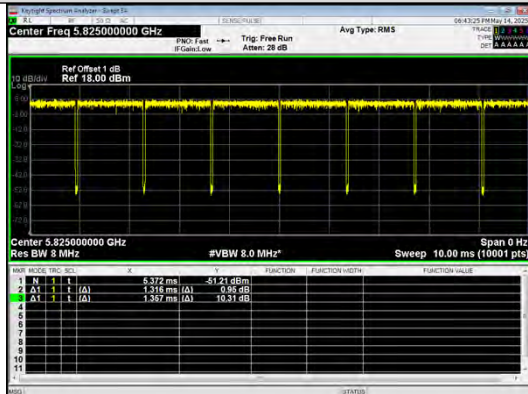
IEEE 802.11n 40MHz_Channel 159



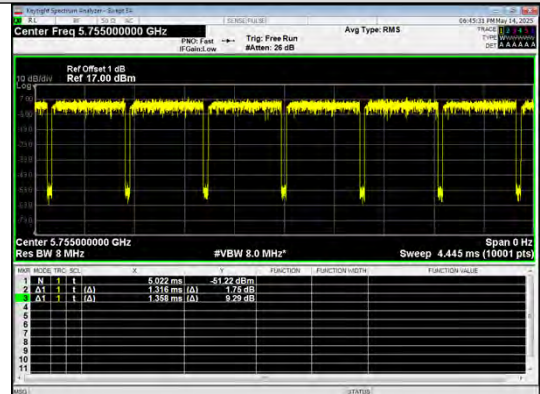
IEEE 802.11ac 20MHz_Channel 149



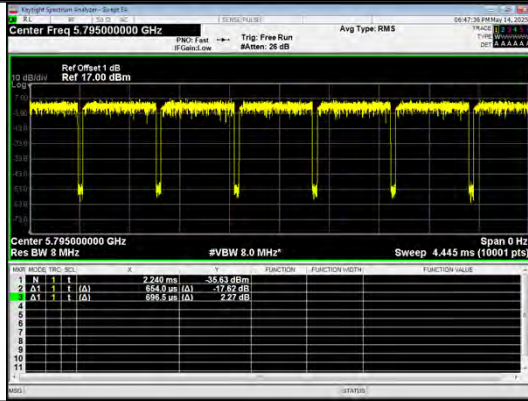
IEEE 802.11ac 20MHz_Channel 157



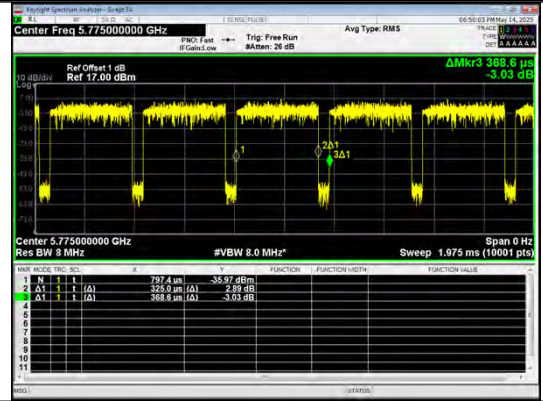
IEEE 802.11ac 20MHz_Channel 165



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	8.484	8.62	≤30	PASS
	157	6.963	7.10	≤30	PASS
	165	7.071	7.21	≤30	PASS
IEEE 802.11n_20	149	8.444	8.58	≤30	PASS
	157	7.113	7.25	≤30	PASS
	165	7.967	8.11	≤30	PASS
IEEE 802.11n_40	151	8.332	8.61	≤30	PASS
	159	6.959	7.24	≤30	PASS
IEEE 802.11ac_20	149	8.481	8.62	≤30	PASS
	157	6.976	7.11	≤30	PASS
	165	7.914	8.05	≤30	PASS
IEEE 802.11ac_40	151	8.307	8.58	≤30	PASS
	159	6.830	7.10	≤30	PASS
IEEE 802.11ac_80	155	7.311	7.86	≤30	PASS

Note: Corr'd Value= Ant. 0 (dBm)+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



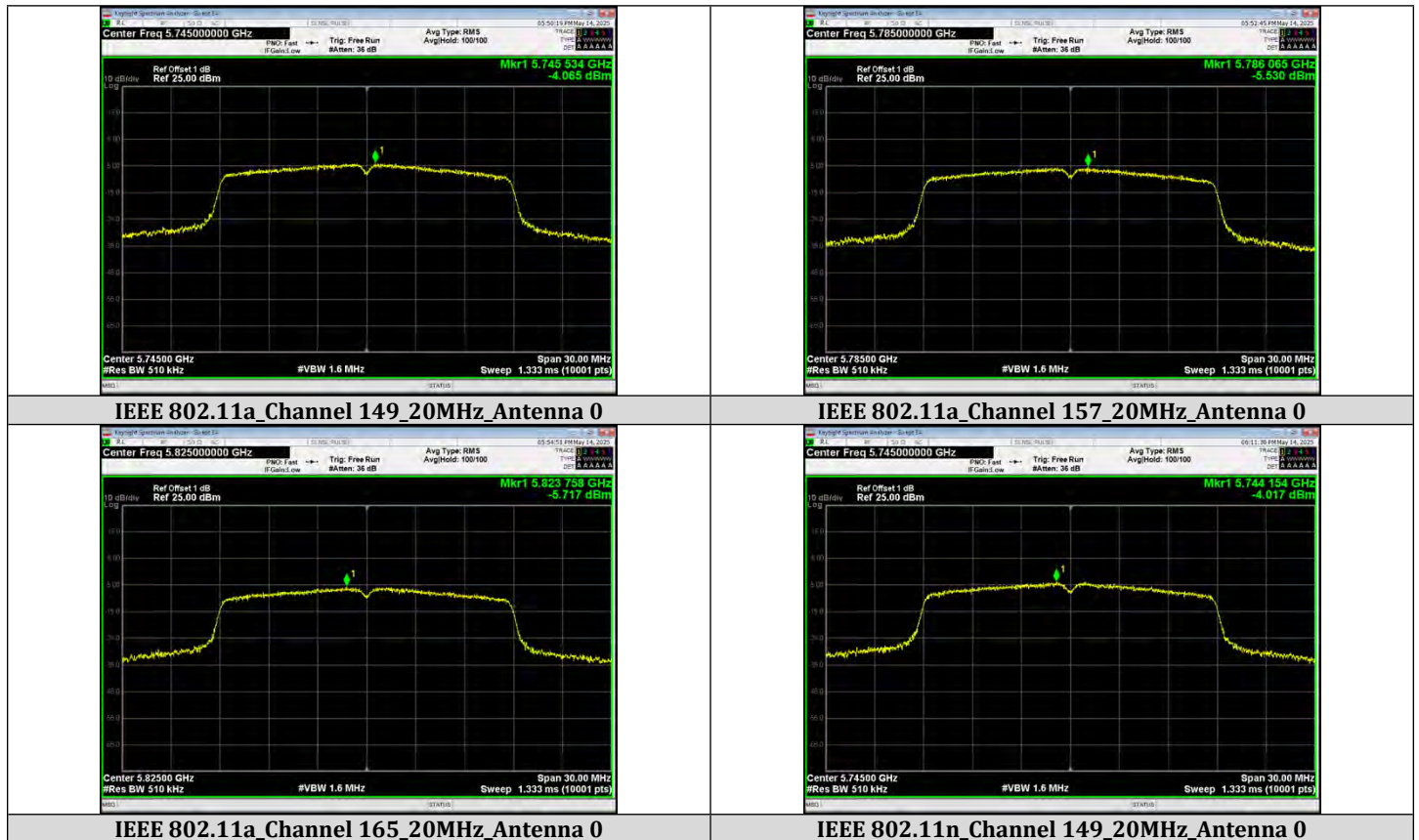
Peak Power Spectral Density

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	-4.065	-4.012	30	PASS
	157	-5.530	-5.477		PASS
	165	-5.717	-5.664		PASS
IEEE 802.11n_20	149	-4.017	-3.965		PASS
	157	-5.332	-5.280		PASS
	165	-4.838	-4.784		PASS
IEEE 802.11n_40	151	-6.900	-6.706		PASS
	159	-8.453	-8.259		PASS
IEEE 802.11ac_20	149	-3.956	-3.909		PASS
	157	-5.402	-5.355		PASS
	165	-4.699	-4.649		PASS
IEEE 802.11ac_40	151	-7.072	-6.885		PASS
	159	-8.753	-8.566		PASS
IEEE 802.11ac_80	155	-10.905	-10.444		PASS

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

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



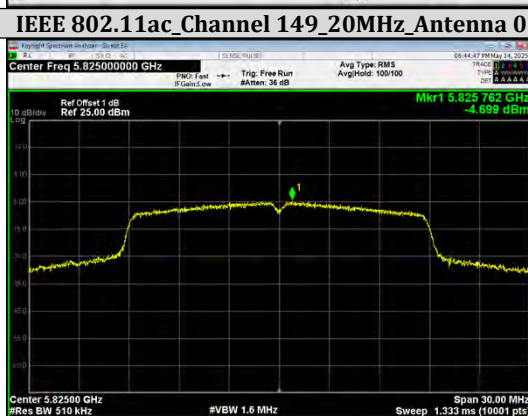
IEEE 802.11n_Channel 159_40MHz_Antenna 0



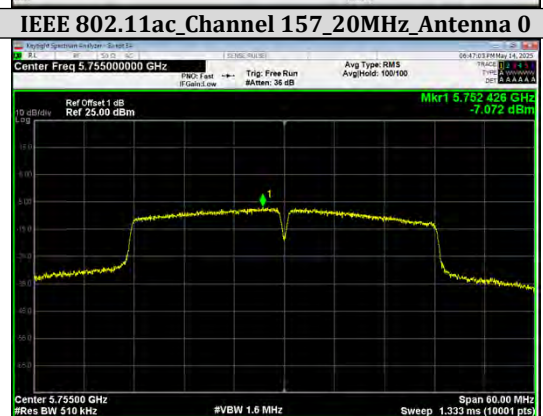
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



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



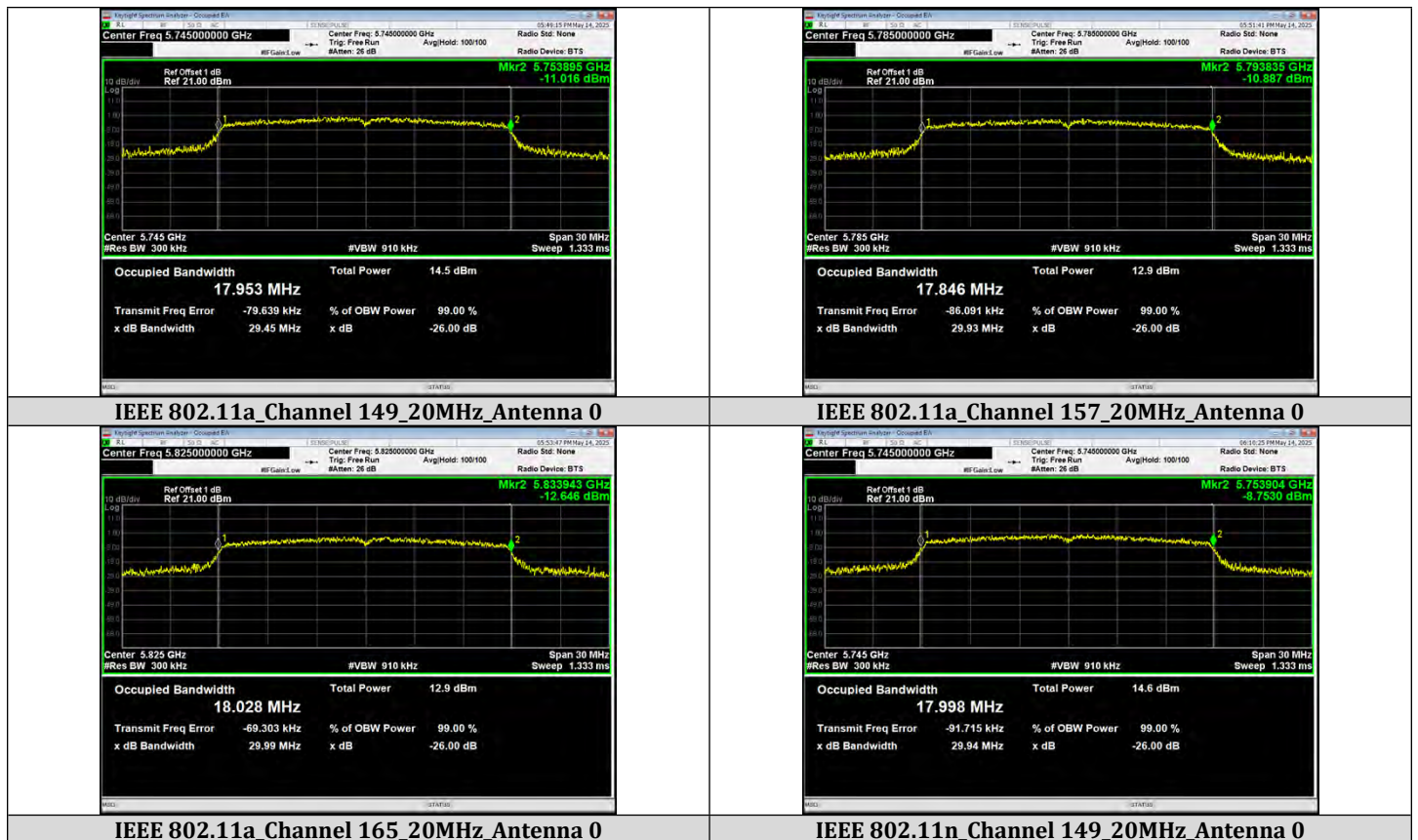
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

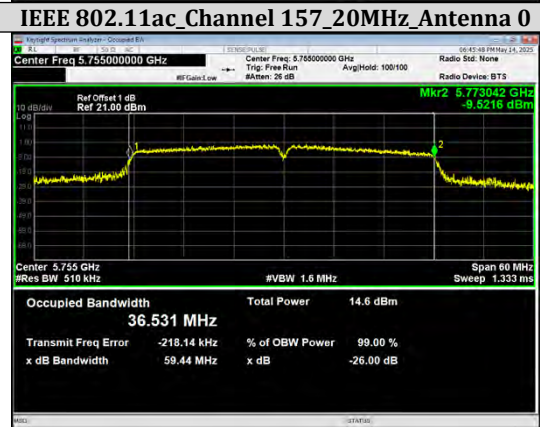
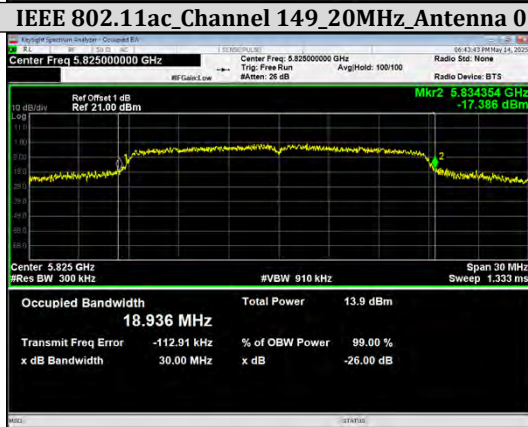
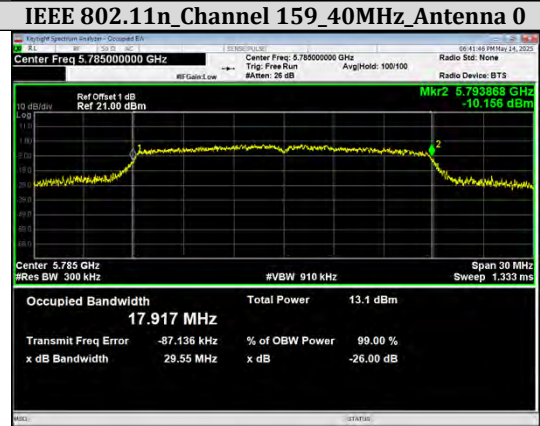
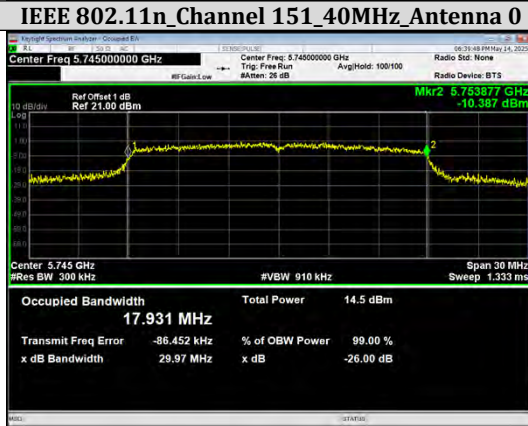
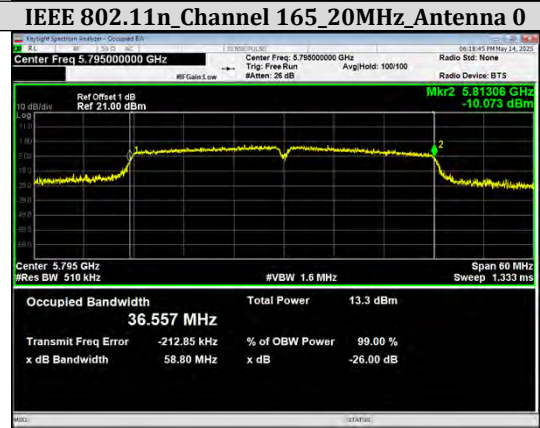
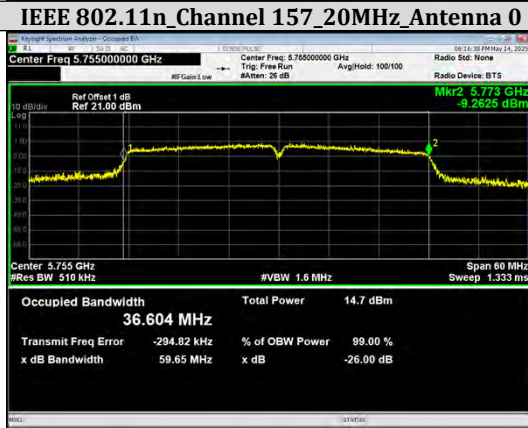
99% Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	0	5745	17.953
	157		5785	17.846
	165		5825	18.028
IEEE 802.11n_20	149		5745	17.998
	157		5785	17.920
	165		5825	19.038
IEEE 802.11n_40	151		5755	36.604
	159		5795	36.557
IEEE 802.11ac_20	149		5745	17.931
	157		5785	17.917
	165		5825	18.936
IEEE 802.11ac_40	151		5755	36.531
	159		5795	36.511
IEEE 802.11ac_80	155		5775	76.139

Test Graphs





IEEE 802.11ac_Channel 165_20MHz_Antenna 0

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



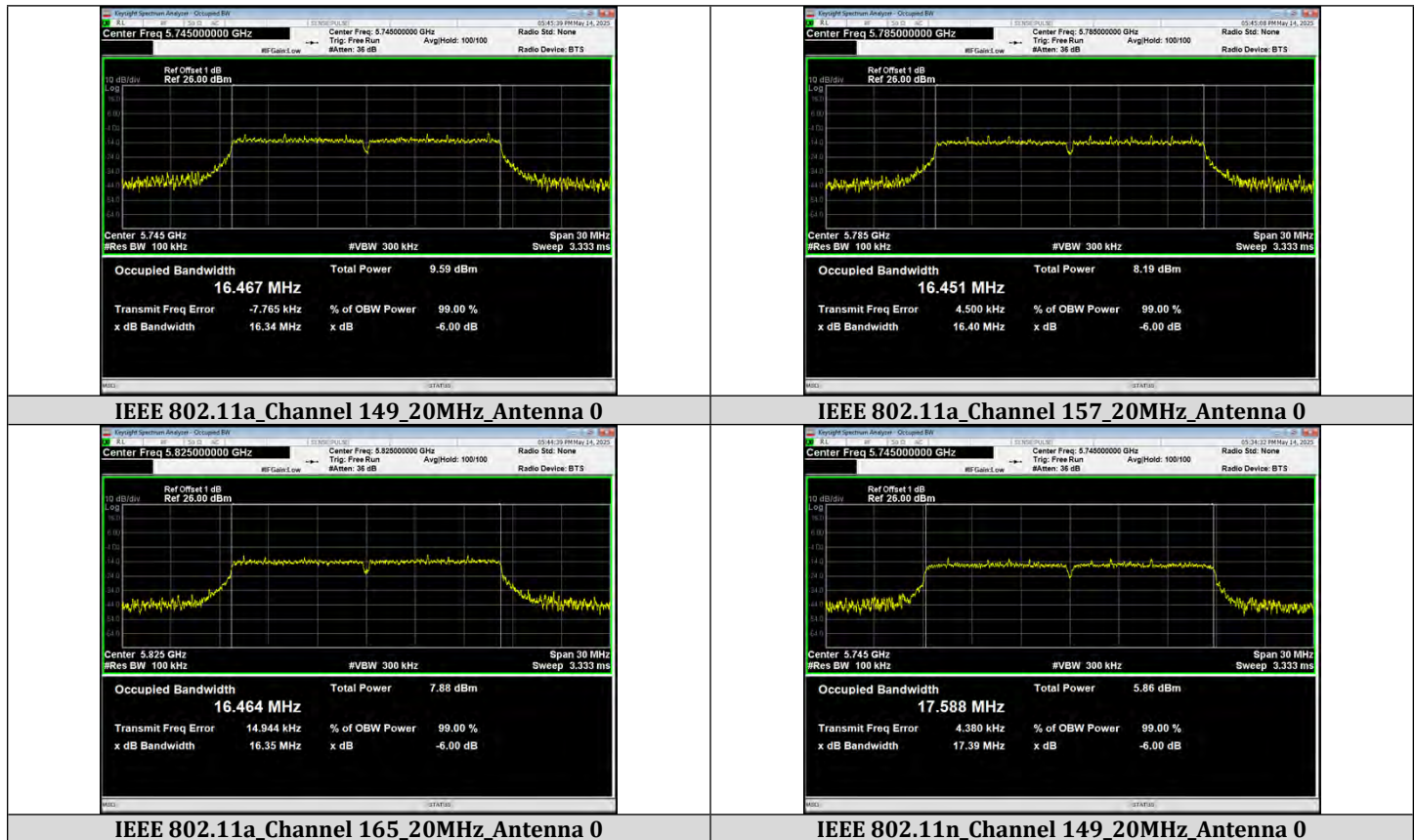
IEEE 802.11ac_Channel 159_40MHz_Antenna 0

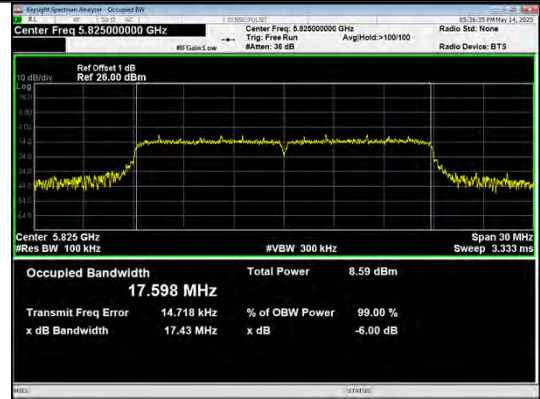
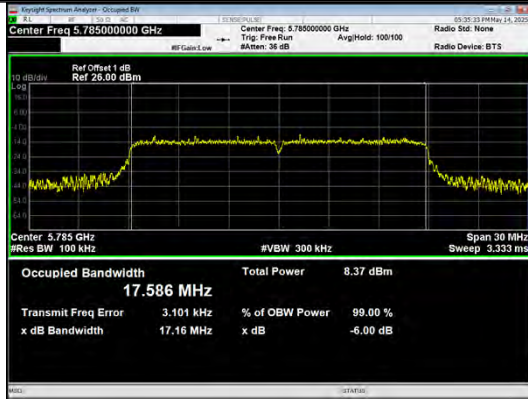


IEEE 802.11ac_Channel 155_80MHz_Antenna 0

**6dB Bandwidth****Test Result**

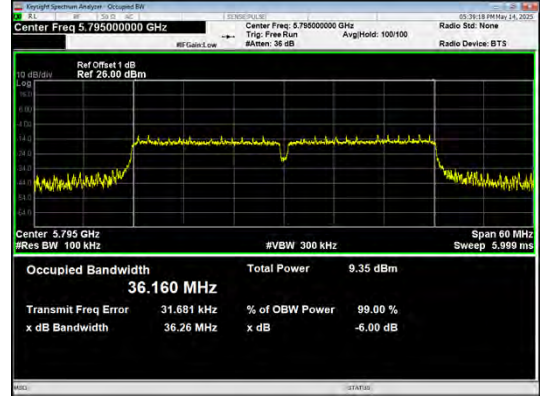
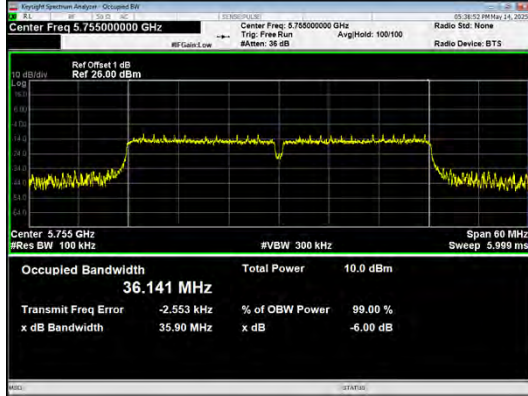
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	16.34	≥0.5	PASS
	157		5785	16.40		PASS
	165		5825	16.35		PASS
IEEE 802.11n_20	149		5745	17.39		PASS
	157		5785	17.16		PASS
	165		5825	17.43		PASS
IEEE 802.11n_40	151		5755	35.90		PASS
	159		5795	36.26		PASS
IEEE 802.11ac_20	149		5745	17.25		PASS
	157		5785	17.03		PASS
	165		5825	17.28		PASS
IEEE 802.11ac_40	151		5755	36.04		PASS
	159		5795	36.14		PASS
IEEE 802.11ac_80	155		5775	75.74		PASS

Test Graphs



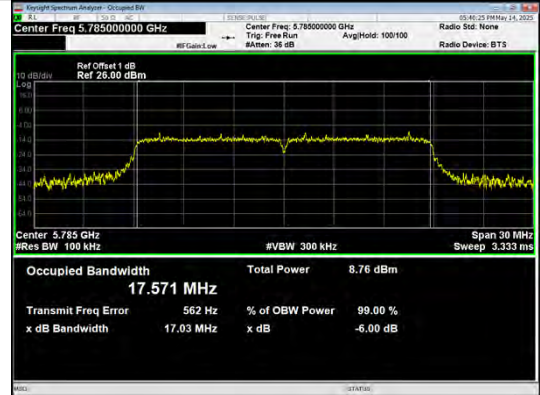
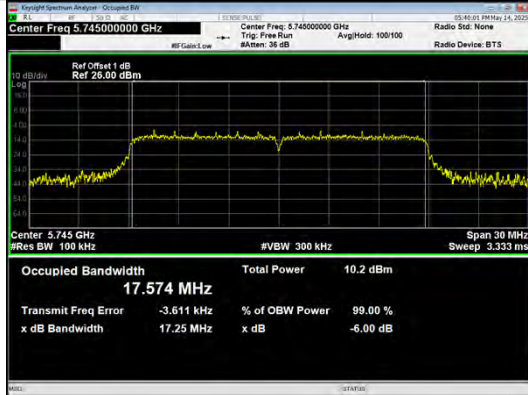
IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



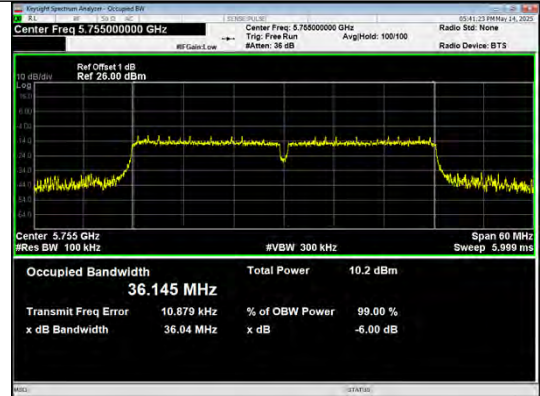
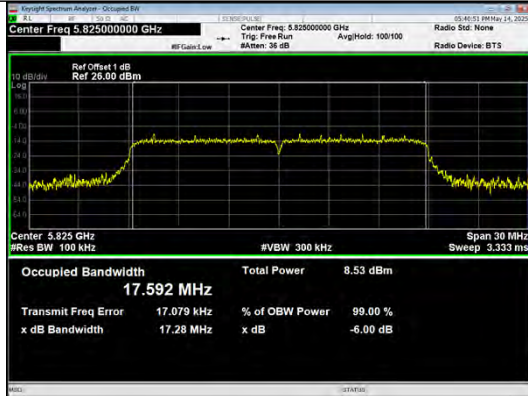
IEEE 802.11n_Channel 151_40MHz_Antenna 0

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



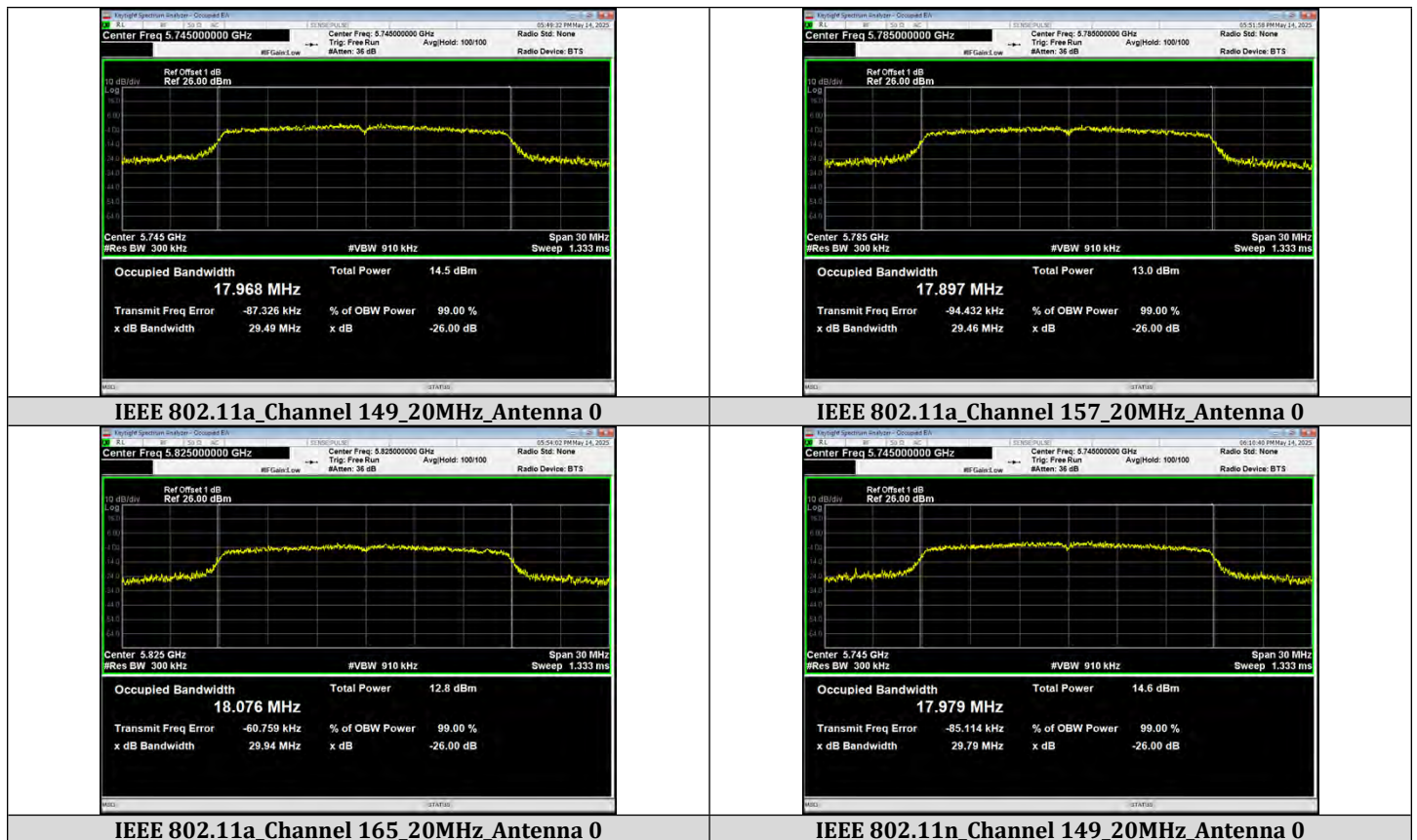
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

**26dB Bandwidth****Test Result**

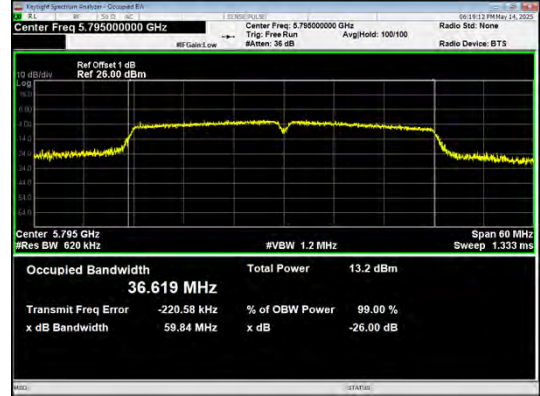
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	29.49	1.02
	157		5785	29.46	1.02
	165		5825	29.94	1.0
IEEE 802.11n_20	149		5745	29.79	1.01
	157		5785	29.76	1.01
	165		5825	29.98	1.0
IEEE 802.11n_40	151		5755	57.90	1.05
	159		5795	59.84	1.03
IEEE 802.11ac_20	149		5745	29.91	1.0
	157		5785	28.88	1.04
	165		5825	30.00	1.0
IEEE 802.11ac_40	151		5755	59.38	1.04
	159		5795	59.53	1.04
IEEE 802.11ac_80	155		5775	114.70	1.02

Test Graphs



IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



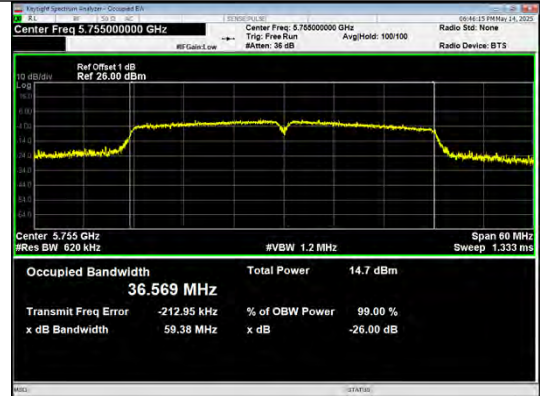
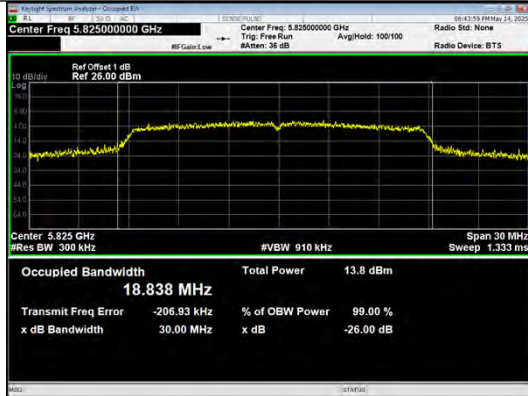
IEEE 802.11n_Channel 151_40MHz_Antenna 0

IEEE 802.11n_Channel 159_40MHz_Antenna 0



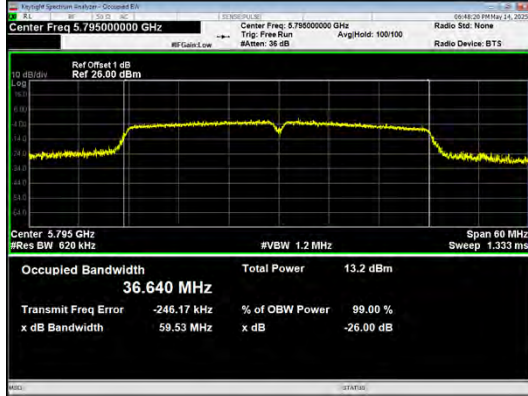
IEEE 802.11ac_Channel 149_20MHz_Antenna 0

IEEE 802.11ac_Channel 157_20MHz_Antenna 0

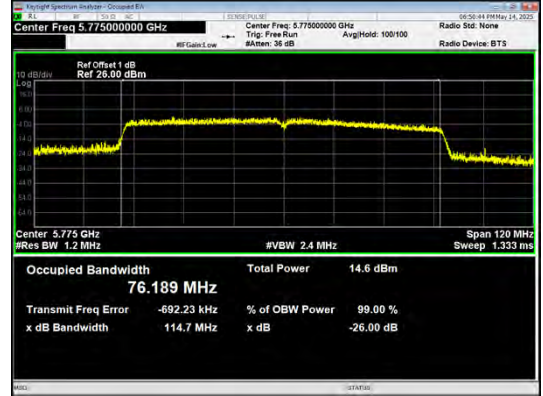


IEEE 802.11ac_Channel 165_20MHz_Antenna 0

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Frequency Stability

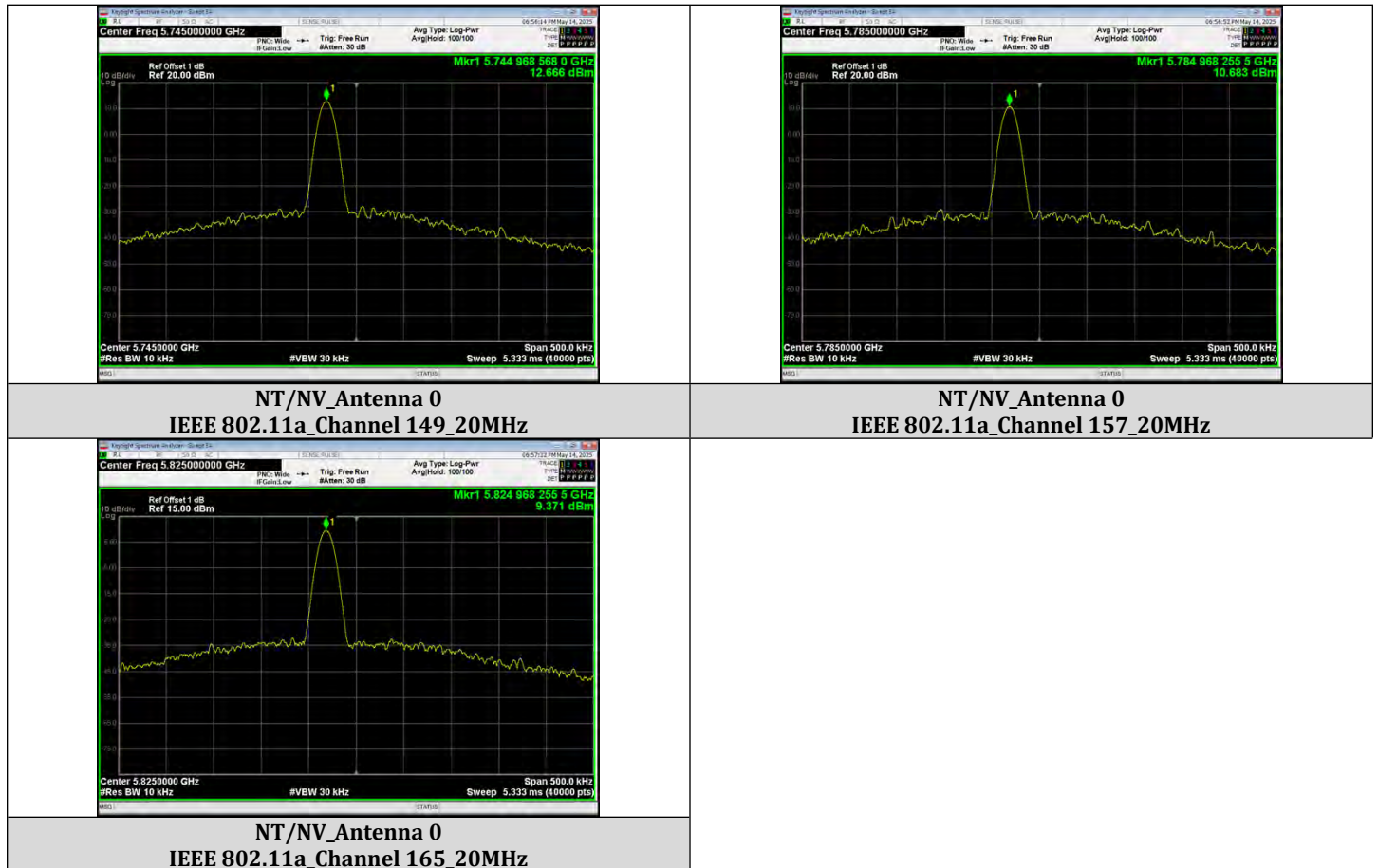
Test Result

Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	149	0	5745.0	5744.968568	-5.47	Within authorized band	PASS
		157		5785.0	5784.968255	-5.49		PASS
		165		5825.0	5824.968255	-5.45		PASS
	IEEE 802.11n_20	149		5745.0	5744.968993	-5.4		PASS
		157		5785.0	5784.968705	-5.41		PASS
		165		5825.0	5824.968518	-5.4		PASS
	IEEE 802.11n_40	151		5755.0	5754.969230	-5.35		PASS
		159		5795.0	5794.969118	-5.33		PASS
		149		5745.0	5744.970268	-5.18		PASS
	IEEE 802.11ac_20	157		5785.0	5784.969755	-5.23		PASS
		165		5825.0	5824.968868	-5.34		PASS
		151		5755.0	5754.969243	-5.34		PASS
	IEEE 802.11ac_40	159		5795.0	5794.969293	-5.3		PASS
		155		5775.0	5774.969530	-5.28		PASS

Test Graphs

NT/NV

IEEE 802.11a



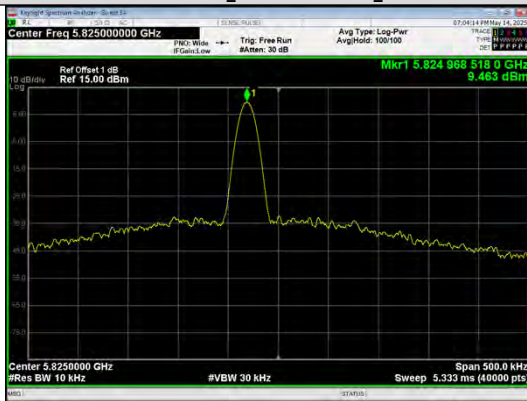
IEEE 802.11n_20



NT/NV_Antenna 0
IEEE 802.11n_Channel 149_20MHz

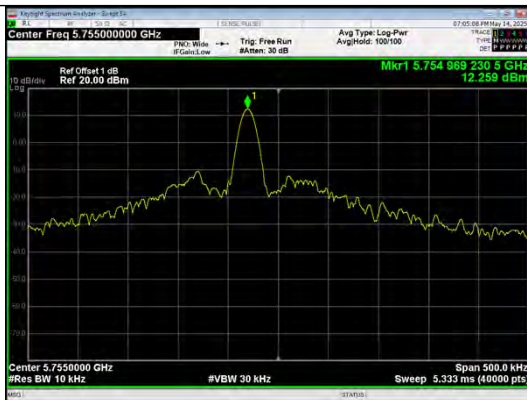


NT/NV_Antenna 0
IEEE 802.11n_Channel 157_20MHz

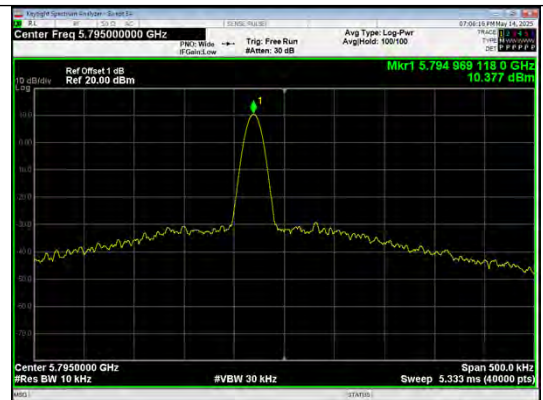


NT/NV_Antenna 0
IEEE 802.11n_Channel 165_20MHz

IEEE 802.11n_40

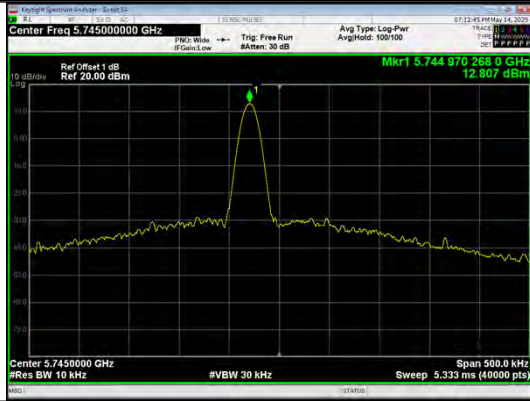


NT/NV_Antenna 0
IEEE 802.11n_Channel 151_40MHz



NT/NV_Antenna 0
IEEE 802.11n_Channel 159_40MHz

IEEE 802.11ac_20



NT/NV_Antenna 0
IEEE 802.11ac_Channel 149_20MHz



NT/NV_Antenna 0
IEEE 802.11ac_Channel 157_20MHz

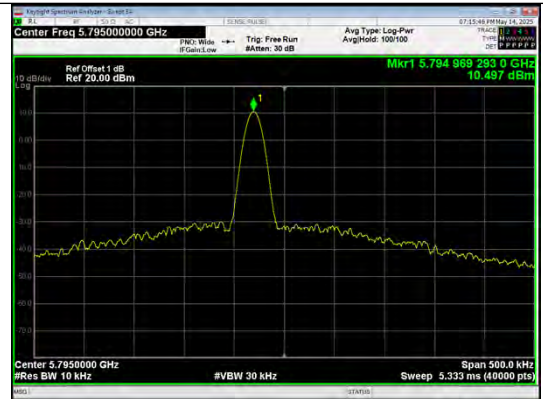


NT/NV_Antenna 0
IEEE 802.11ac_Channel 165_20MHz

IEEE 802.11ac_40



NT/NV_Antenna 0
IEEE 802.11ac_Channel 151_40MHz



NT/NV_Antenna 0
IEEE 802.11ac_Channel 159_40MHz

IEEE 802.11ac_80



NT/NV_Antenna 0
IEEE 802.11ac_Channel 155_80MHz

***** End of Report *****