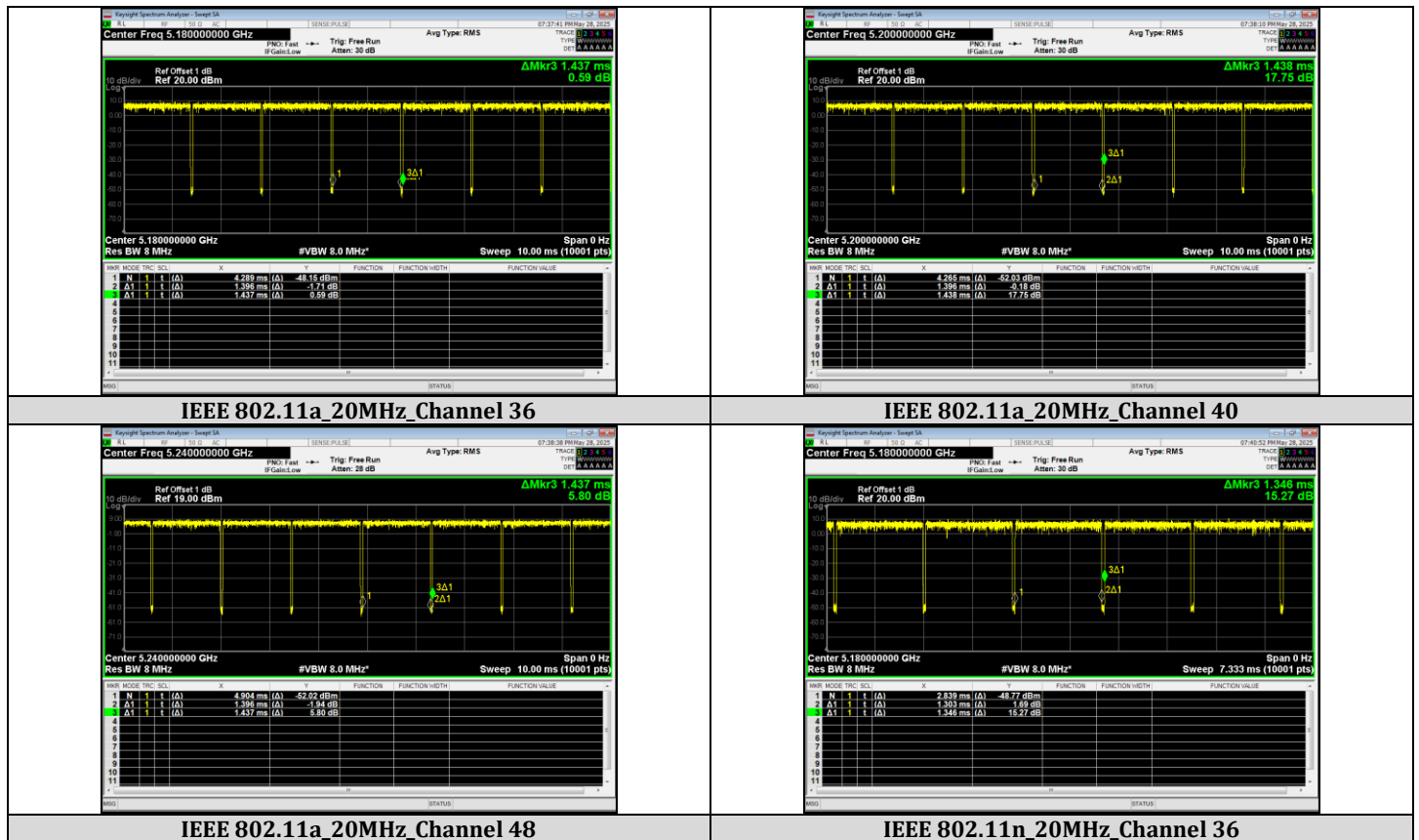
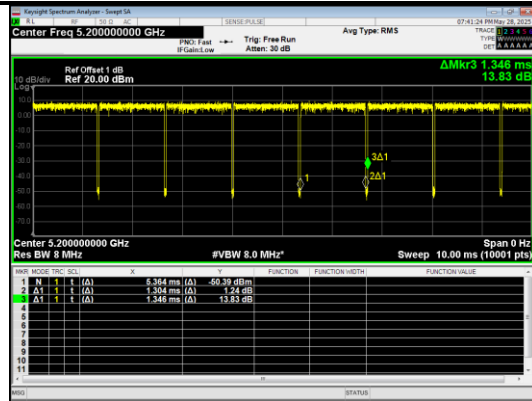


Duty Cycle Test Result

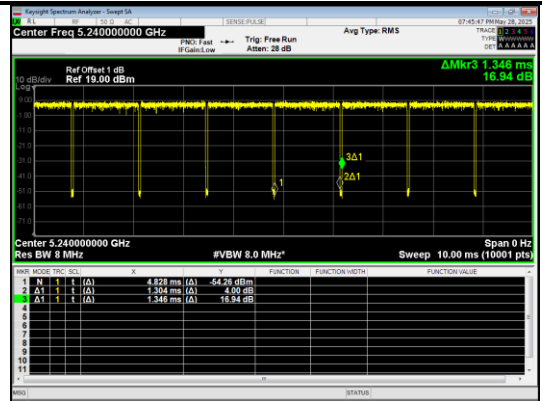
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	36	1	1.396	1.437	97.15	0.9715	0.1256	0.7163
		40		1.396	1.438	97.08	0.9708	0.1287	0.7163
		48		1.396	1.437	97.15	0.9715	0.1256	0.7163
IEEE 802.11n_20		36		1.303	1.346	96.84	0.9684	0.1395	0.7675
		40		1.304	1.346	96.88	0.9688	0.1377	0.7669
		48		1.304	1.346	96.88	0.9688	0.1377	0.7669
IEEE 802.11n_40		38		0.650	0.692	93.90	0.9390	0.2733	1.5385
		46		0.650	0.693	93.84	0.9384	0.2761	1.5385
		48		1.315	1.357	96.87	0.9687	0.1381	0.7605
IEEE 802.11ac_20	MCS 0	36		1.316	1.358	96.91	0.9691	0.1363	0.7599
		40		1.315	1.357	96.87	0.9687	0.1381	0.7605
		48		0.654	0.696	93.94	0.9394	0.2715	1.5291
IEEE 802.11ac_40		38		0.654	0.696	93.87	0.9387	0.2747	1.5291
		46							
IEEE 802.11ac_80		42		0.325	0.369	88.16	0.8816	0.5473	3.0769

Test Graphs

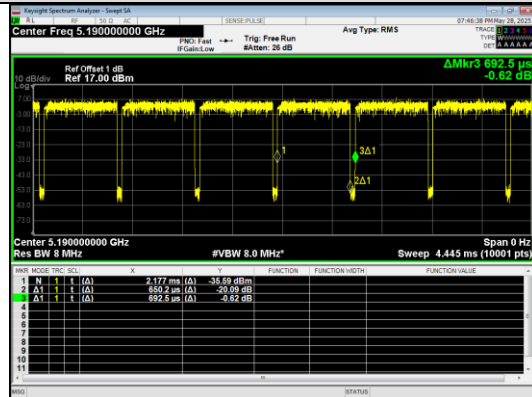




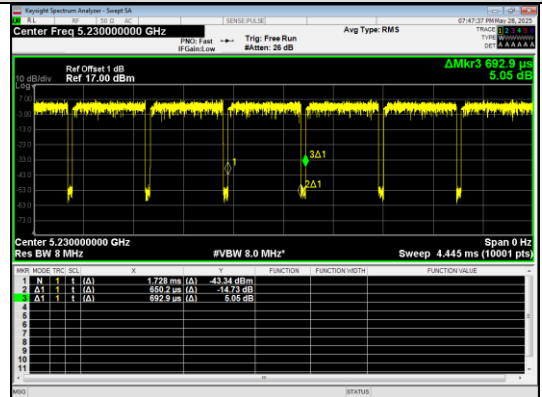
IEEE 802.11n_20MHz_Channel 40



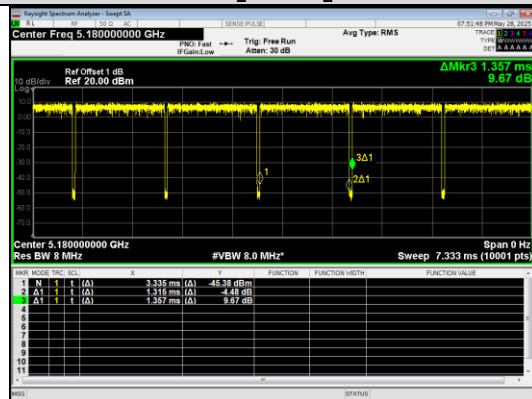
IEEE 802.11n_20MHz_Channel 48



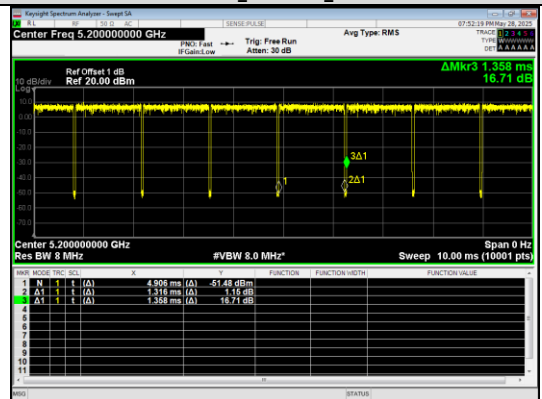
IEEE 802.11n_40MHz_Channel 38



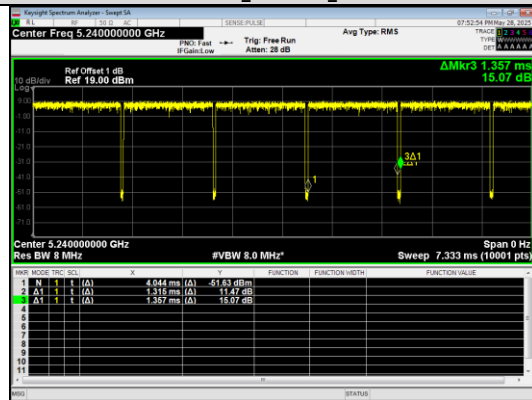
IEEE 802.11n_40MHz_Channel 46



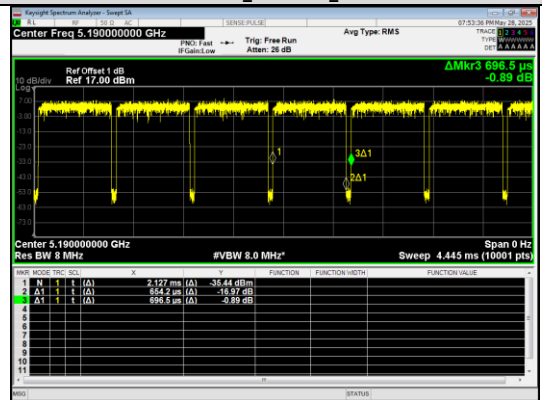
IEEE 802.11ac_20MHz_Channel 36



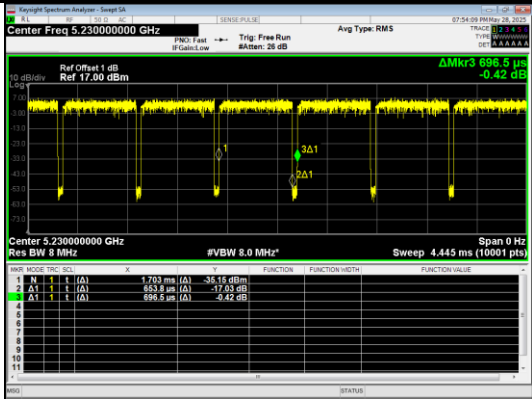
IEEE 802.11ac_20MHz_Channel 40



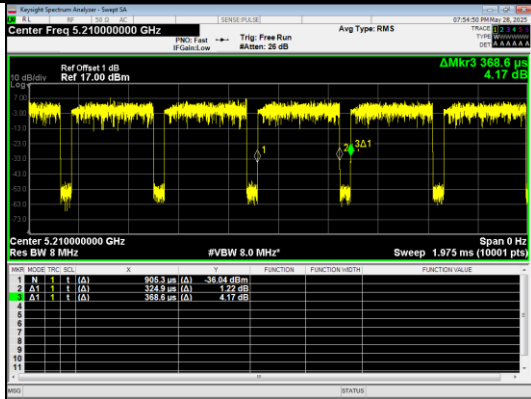
IEEE 802.11ac_20MHz_Channel 48



IEEE 802.11ac_40MHz_Channel 38



IEEE 802.11ac_40MHz_Channel 46



IEEE 802.11ac_80MHz_Channel 42

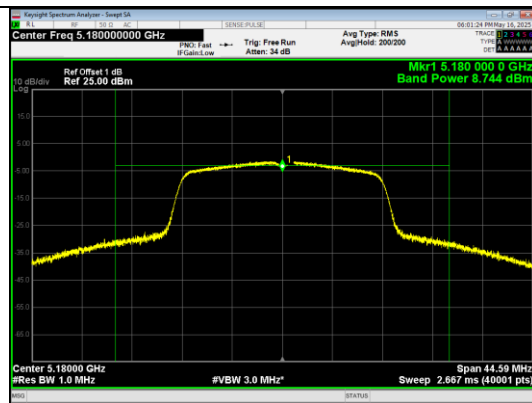


Conducted Output Power

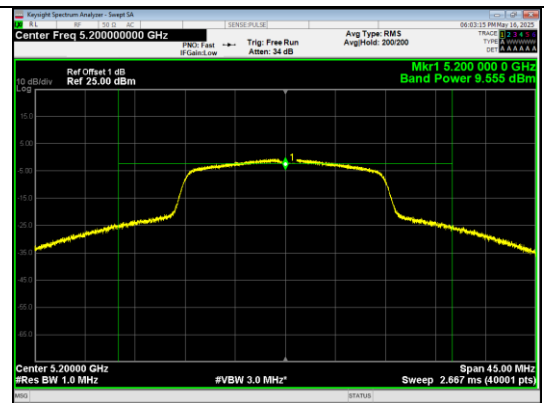
Conducted output power

Mode	Channel	Ant. 0 (dBm)	Corr'd Value Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	36	8.74	8.87	≤24	PASS
	40	9.55	9.68	≤24	PASS
	48	9.55	9.67	≤24	PASS
IEEE 802.11n_20	36	8.77	8.91	≤24	PASS
	40	8.62	8.75	≤24	PASS
	48	7.59	7.73	≤24	PASS
IEEE 802.11n_40	38	8.01	8.29	≤24	PASS
	46	7.14	7.41	≤24	PASS
IEEE 802.11ac_20	36	8.70	8.84	≤24	PASS
	40	8.54	8.67	≤24	PASS
	48	7.59	7.73	≤24	PASS
IEEE 802.11ac_40	38	8.18	8.46	≤24	PASS
	46	7.17	7.45	≤24	PASS
IEEE 802.11ac_80	42	7.34	7.89	≤24	PASS

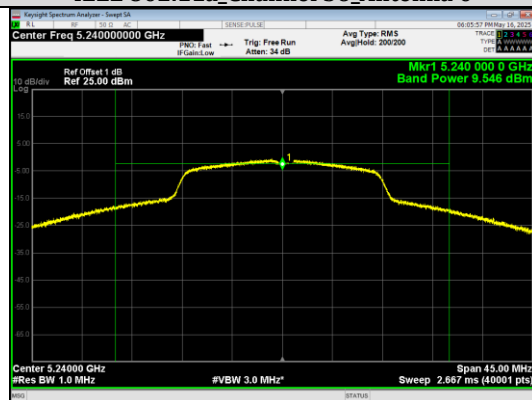
Note: Corr'd Value= Ant. 0 (dBm)+Duty cycle Factor.



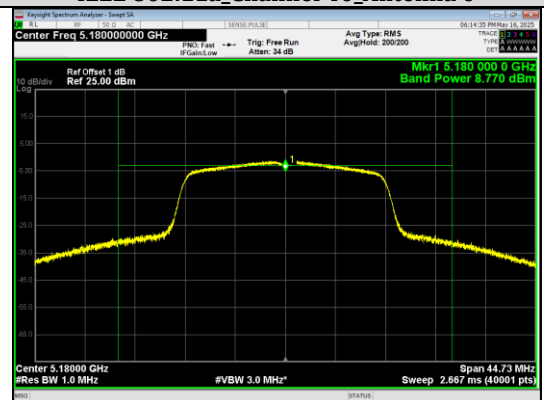
Conducted AVG output power
IEEE 802.11a_Channel 36_Antenna 0



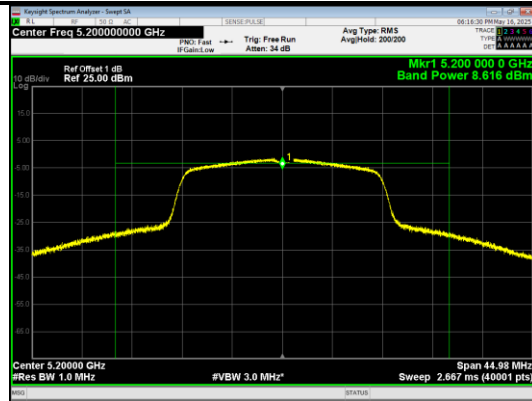
Conducted AVG output power
IEEE 802.11a_Channel 40_Antenna 0



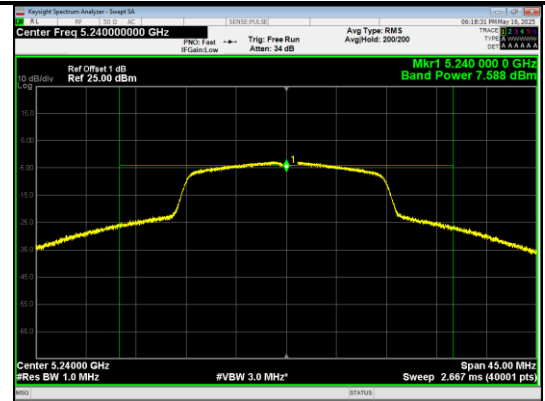
Conducted AVG output power
IEEE 802.11a_Channel 48_Antenna 0



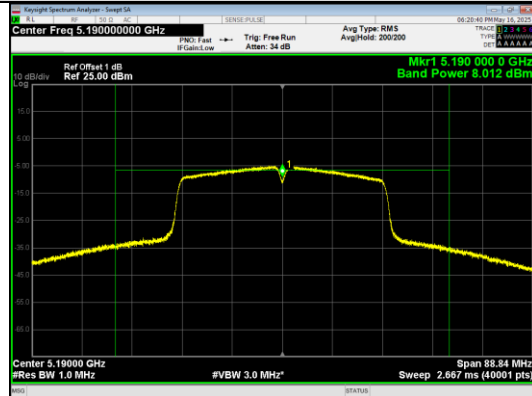
Conducted AVG output power
IEEE 802.11n_20_Channel 36_Antenna 0



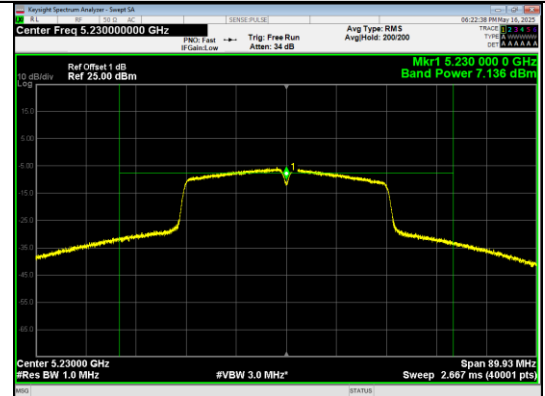
Conducted AVG output power
IEEE 802.11n_20_Channel 40_Antenna 0



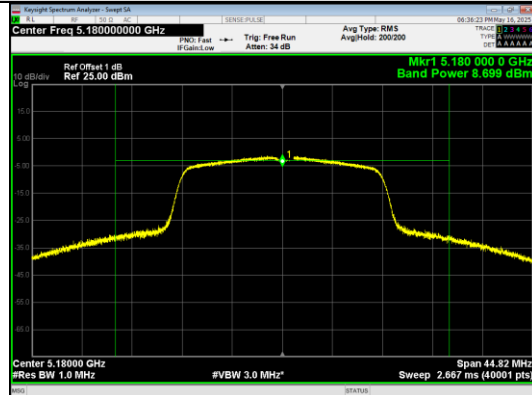
Conducted AVG output power
IEEE 802.11n_20_Channel 48_Antenna 0



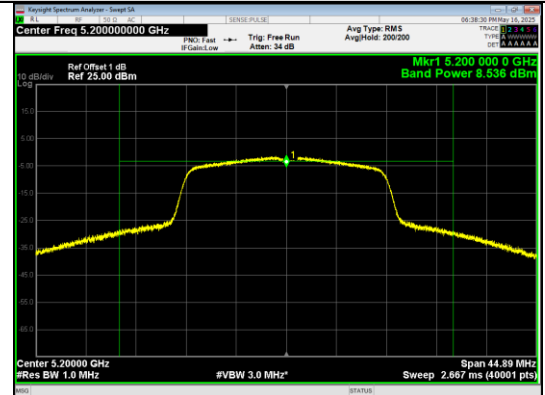
Conducted AVG output power
IEEE 802.11n_40_Channel 38_Antenna 0



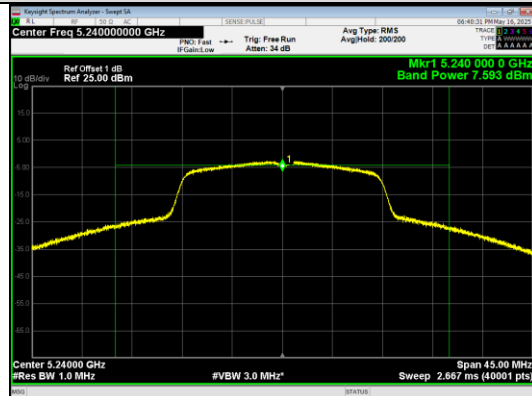
Conducted AVG output power
IEEE 802.11n_40_Channel 46_Antenna 0



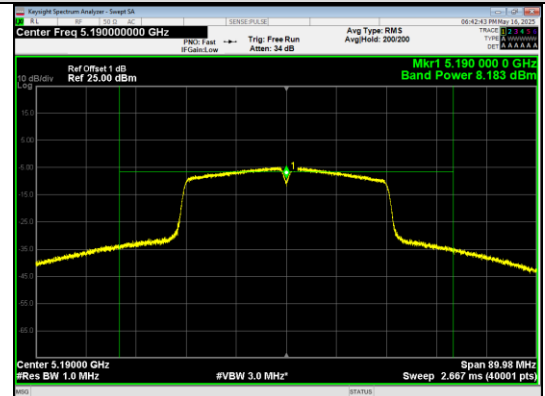
Conducted AVG output power
IEEE 802.11ac_20_Channel 36_Antenna 0



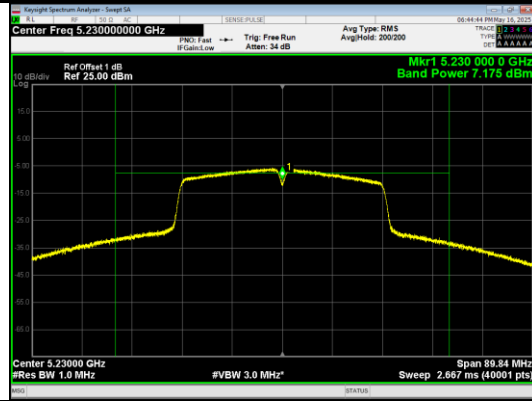
Conducted AVG output power
IEEE 802.11ac_20_Channel 40_Antenna 0



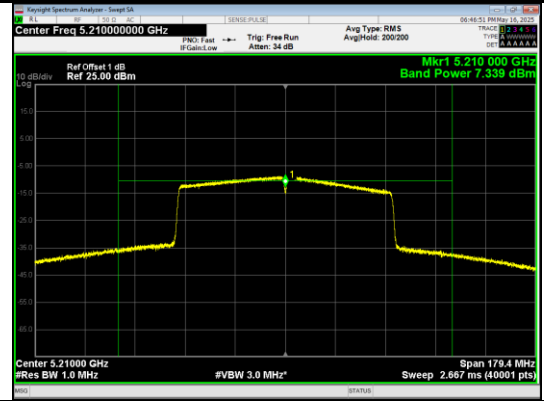
Conducted AVG output power
IEEE 802.11ac_40_Channel 38_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 48_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 46_Antenna 0



Conducted AVG output power
IEEE 802.11ac_80_Channel 42_Antenna 0



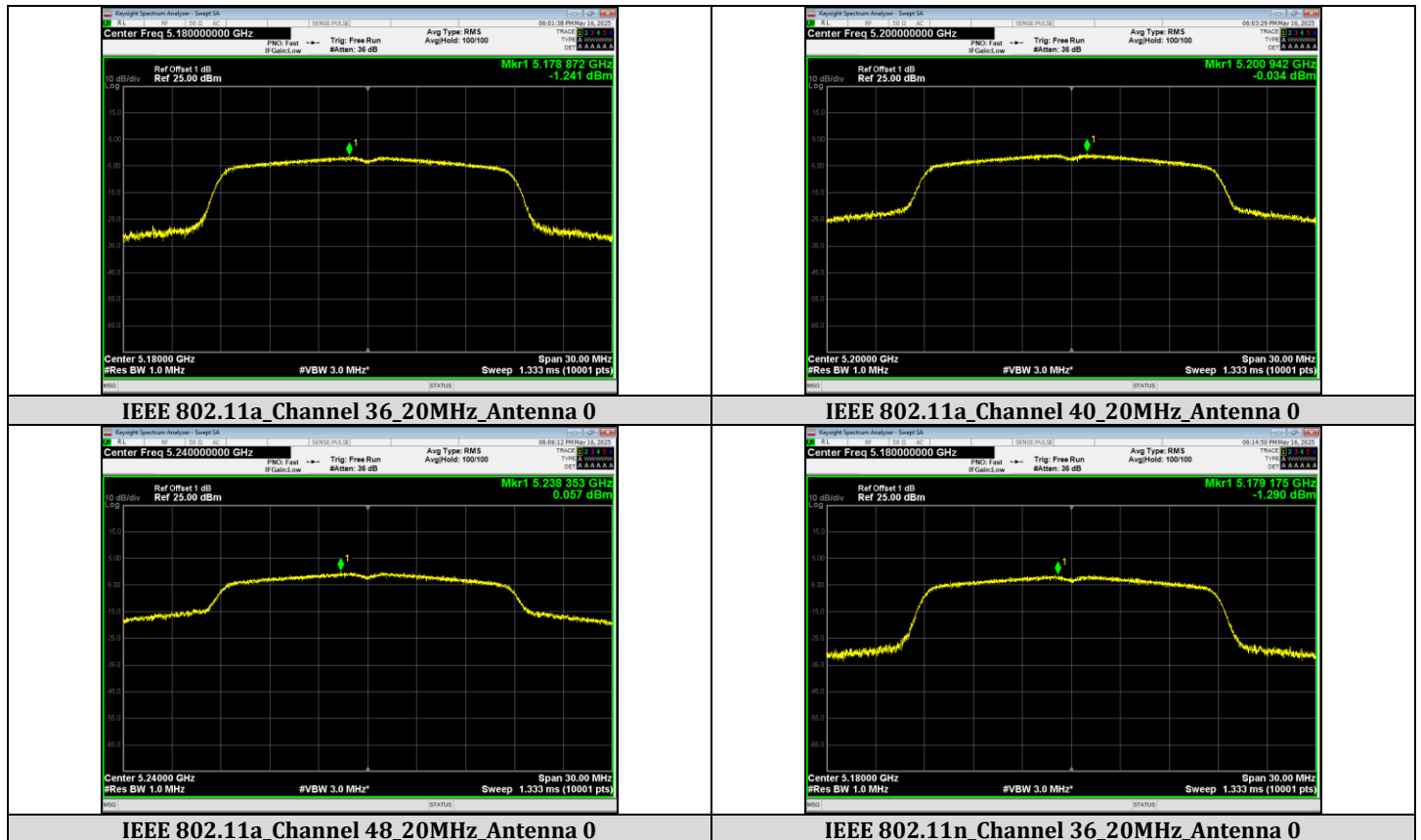
Peak Power Spectral Density

Test Result

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	36	-1.241	-1.115	11	PASS
	40	-0.034	0.092		PASS
	48	0.057	0.183		PASS
IEEE 802.11n_20	36	-1.290	-1.152		PASS
	40	-1.218	-1.08		PASS
	48	-1.857	-1.719		PASS
IEEE 802.11n_40	38	-4.803	-4.527		PASS
	46	-5.338	-5.062		PASS
IEEE 802.11ac_20	36	-1.266	-1.128		PASS
	40	-1.089	-0.951		PASS
	48	-1.934	-1.796		PASS
IEEE 802.11ac_40	38	-4.480	-4.205		PASS
	46	-5.334	-5.059		PASS
IEEE 802.11ac_80	42	-8.410	-7.863		PASS

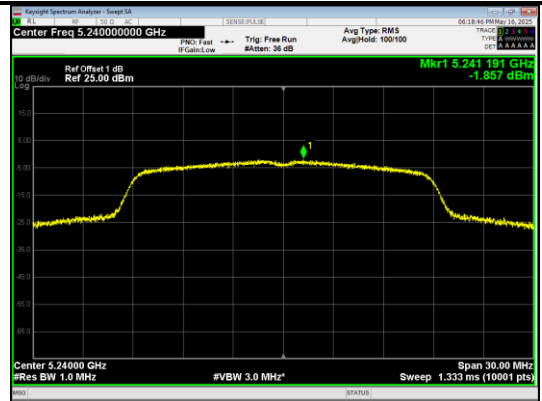
Note: Corr'd PSD = Meas PSD +Duty cycle Factor

Test Graphs

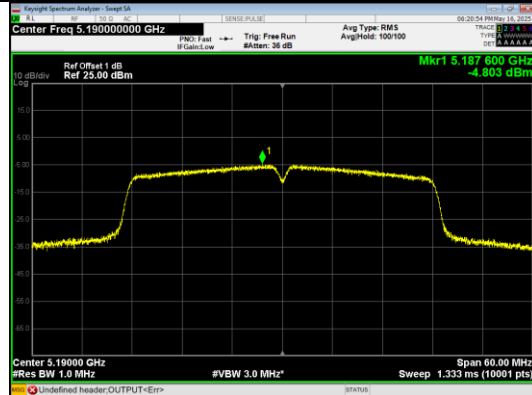




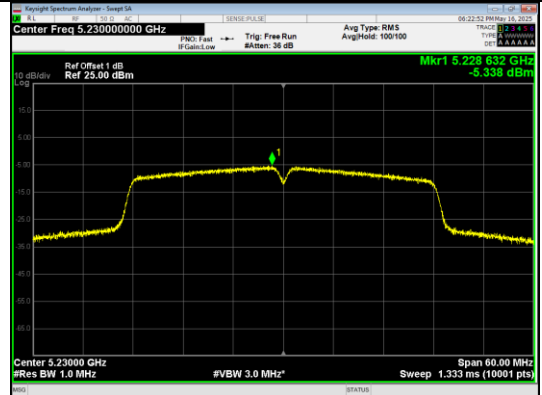
IEEE 802.11n Channel 40_20MHz_Antenna 0



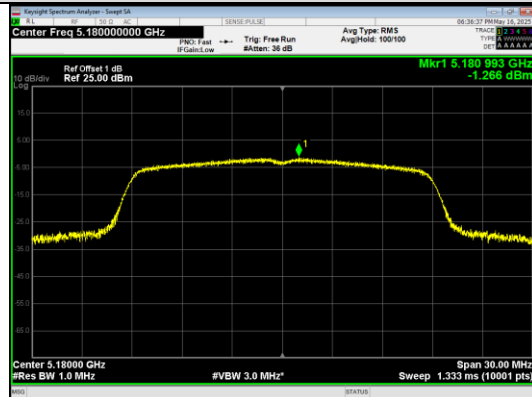
IEEE 802.11n Channel 48_20MHz_Antenna 0



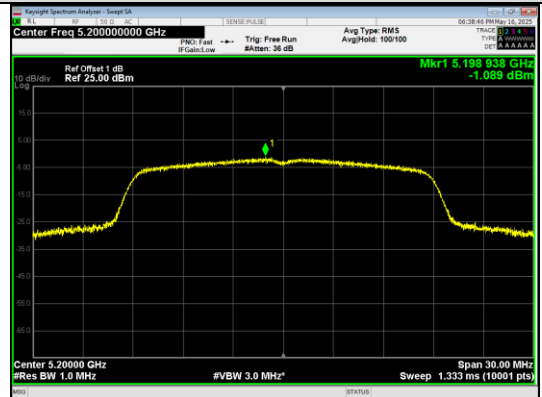
IEEE 802.11n Channel 38_40MHz_Antenna 0



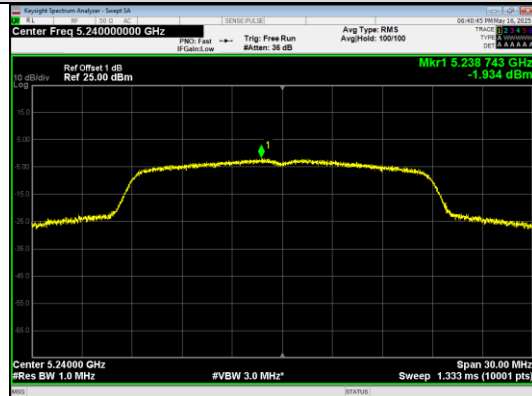
IEEE 802.11n Channel 46_40MHz_Antenna 0



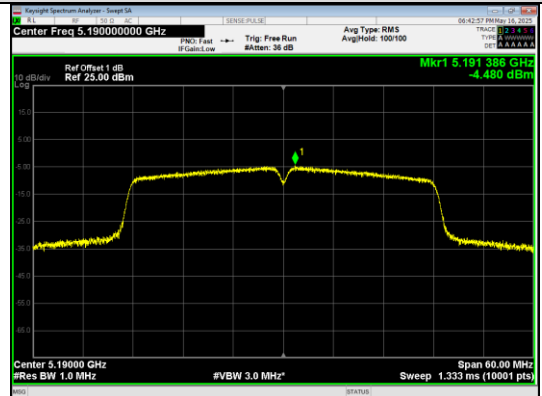
IEEE 802.11ac Channel 36_20MHz_Antenna 0



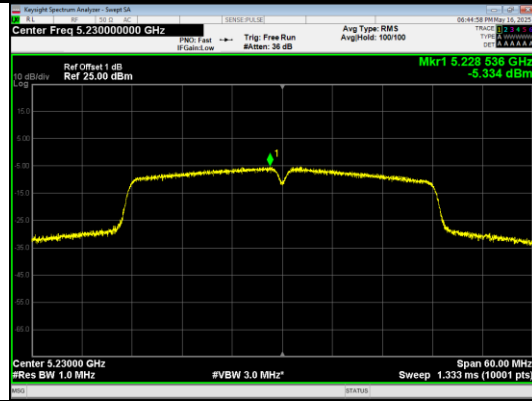
IEEE 802.11ac Channel 40_20MHz_Antenna 0



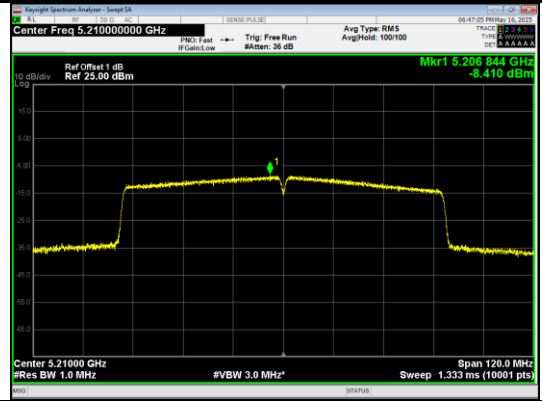
IEEE 802.11ac Channel 48_20MHz_Antenna 0



IEEE 802.11ac Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0



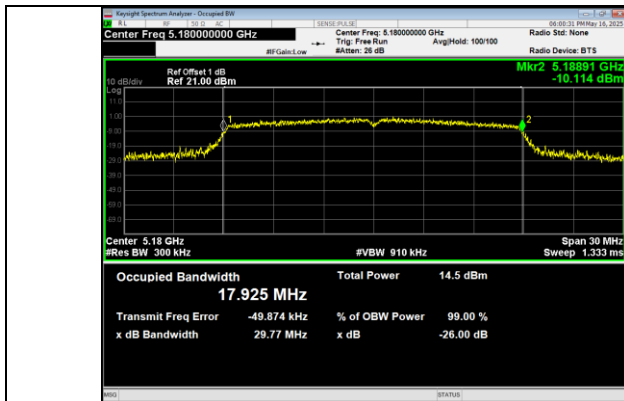
IEEE 802.11ac_Channel 42_80MHz_Antenna 0

99% Bandwidth

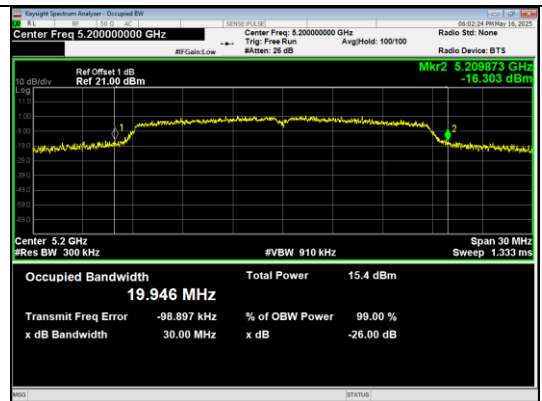
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	36	0	5180	17.925
	40		5200	19.946
	48		5240	25.954
IEEE 802.11n_20	36		5180	18.029
	40		5200	18.183
	48		5240	20.986
IEEE 802.11n_40	38		5190	36.440
	46		5230	36.843
IEEE 802.11ac_20	36		5180	17.909
	40		5200	18.038
	48		5240	20.441
IEEE 802.11ac_40	38		5190	36.355
	46		5230	36.519
IEEE 802.11ac_80	42		5210	75.847

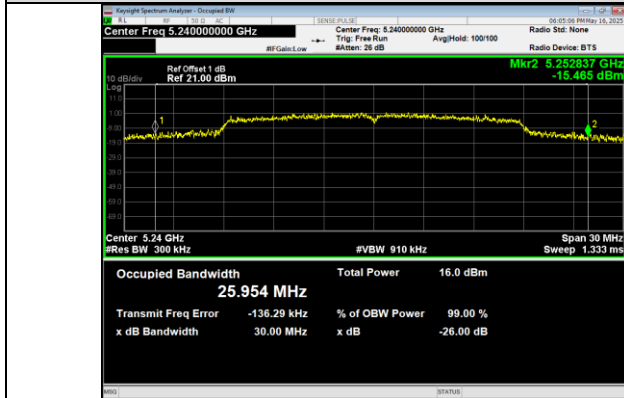
Test Graphs



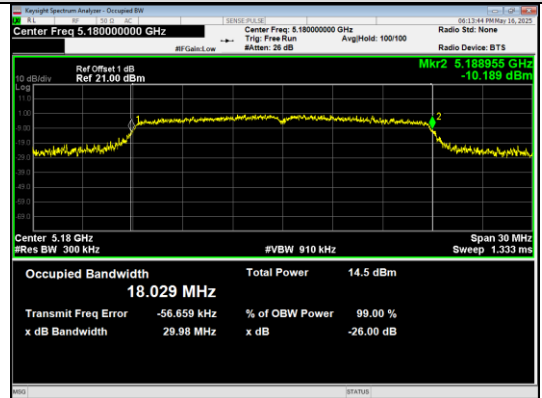
IEEE 802.11a_Channel 36_20MHz_Antenna 0



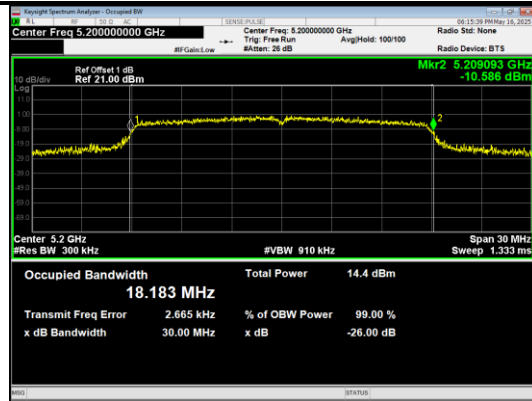
IEEE 802.11a_Channel 40_20MHz_Antenna 0



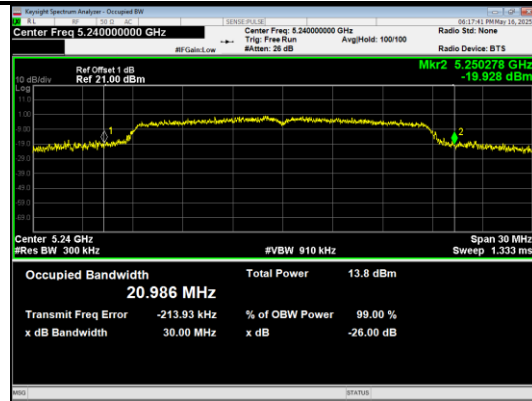
IEEE 802.11a_Channel 48_20MHz_Antenna 0



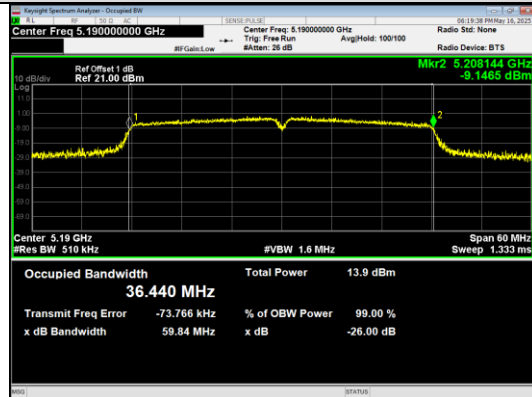
IEEE 802.11n_Channel 36_20MHz_Antenna 0



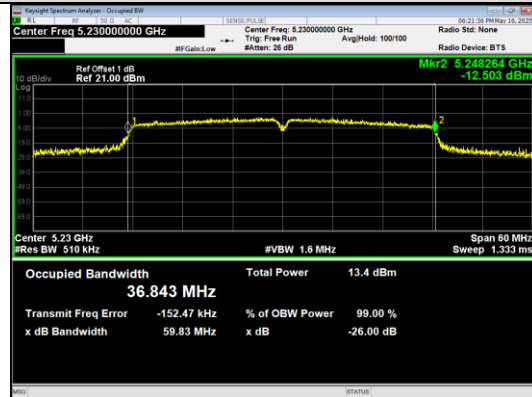
IEEE 802.11n_Channel 40_20MHz_Antenna 0



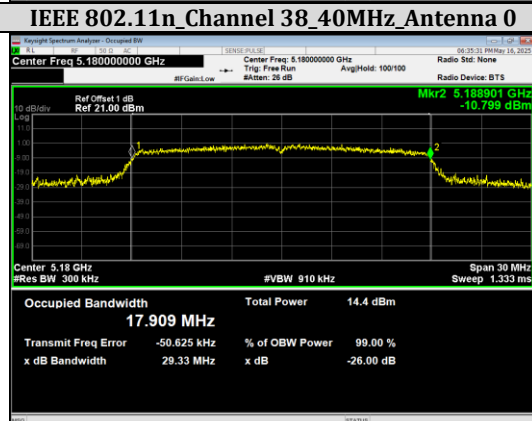
IEEE 802.11n_Channel 48_20MHz_Antenna 0



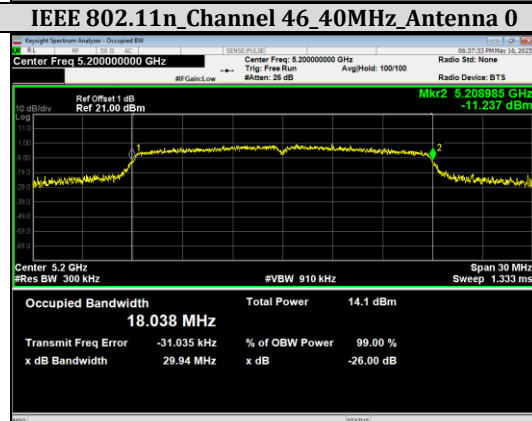
IEEE 802.11n_Channel 40_20MHz_Antenna 0



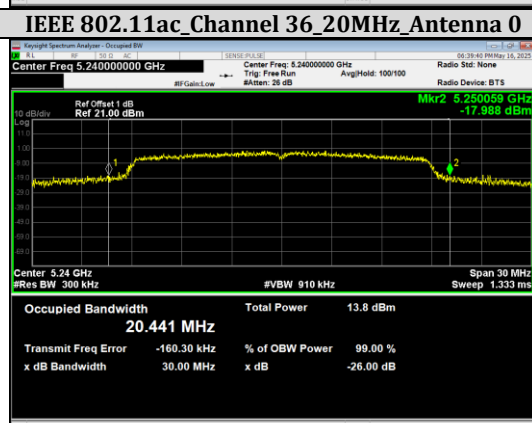
IEEE 802.11n_Channel 48_20MHz_Antenna 0



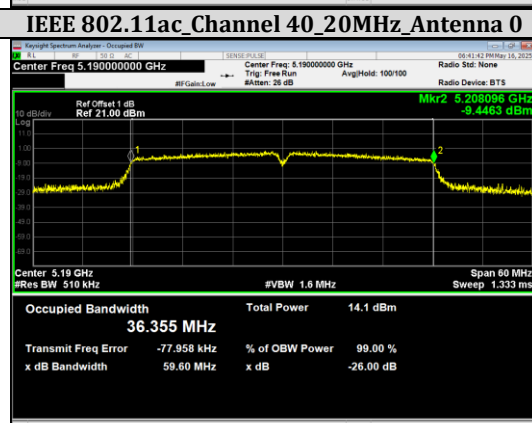
IEEE 802.11n_Channel 38_40MHz_Antenna 0



IEEE 802.11n_Channel 46_40MHz_Antenna 0



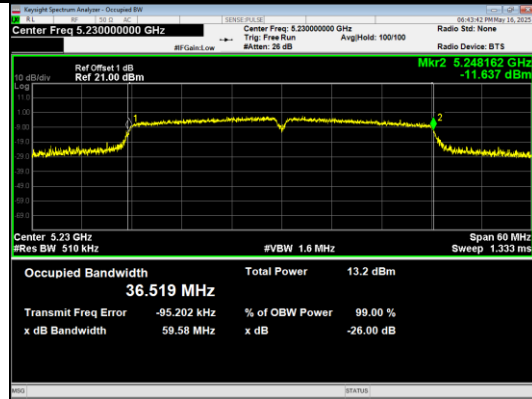
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



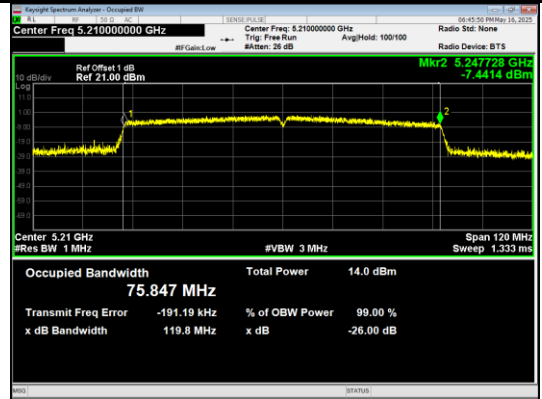
IEEE 802.11ac_Channel 40_20MHz_Antenna 0

IEEE 802.11ac_Channel 48_20MHz_Antenna 0

IEEE 802.11ac_Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0



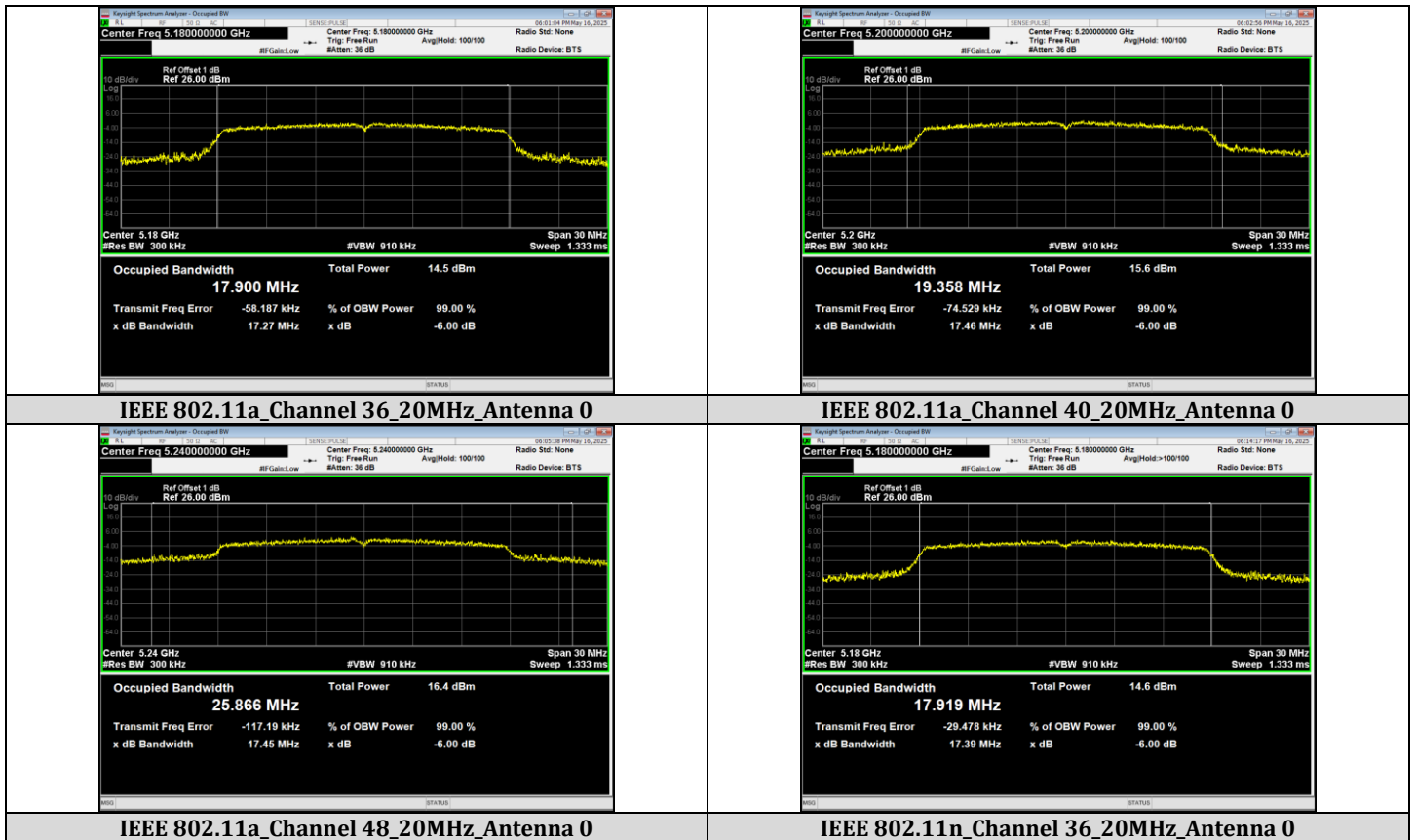
IEEE 802.11ac_Channel 42_80MHz_Antenna 0

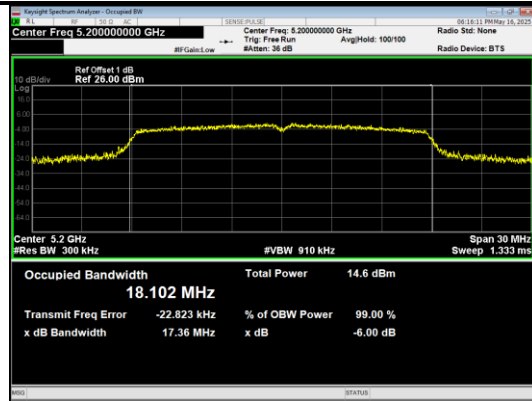
6dB Bandwidth

Test Result

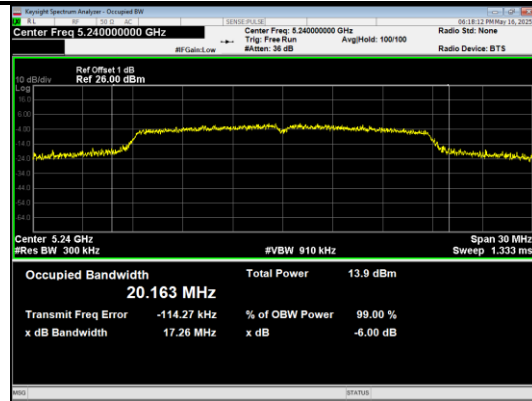
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	36	0	5180	17.27	≥0.5	PASS
	40		5200	17.46		PASS
	48		5240	17.45		PASS
IEEE 802.11n_20	36		5180	17.39		PASS
	40		5200	17.36		PASS
	48		5240	17.26		PASS
IEEE 802.11n_40	38		5190	35.80		PASS
	46		5230	35.62		PASS
IEEE 802.11ac_20	36		5180	17.24		PASS
	40		5200	17.17		PASS
	48		5240	17.24		PASS
IEEE 802.11ac_40	38		5190	35.41		PASS
	46		5230	35.24		PASS
IEEE 802.11ac_80	42		5210	75.03		PASS

Test Graphs

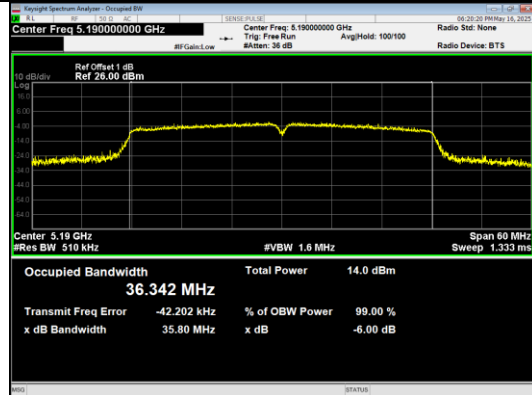




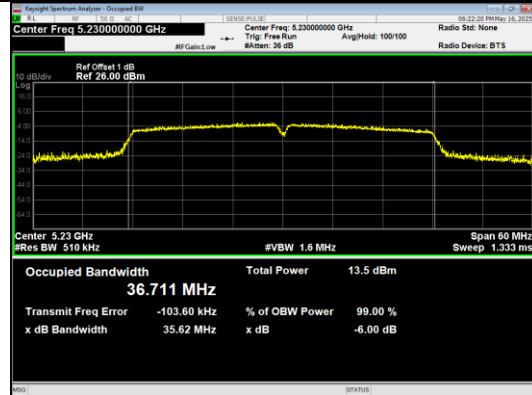
IEEE 802.11n_Channel 40_20MHz_Antenna 0



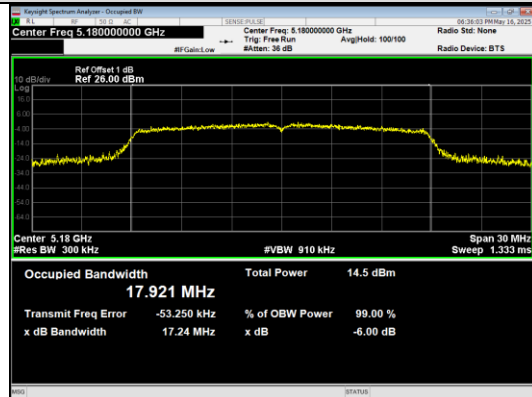
IEEE 802.11n_Channel 48_20MHz_Antenna 0



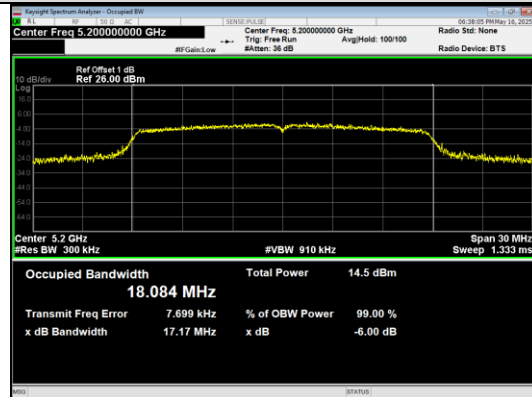
IEEE 802.11n_Channel 38_40MHz_Antenna 0



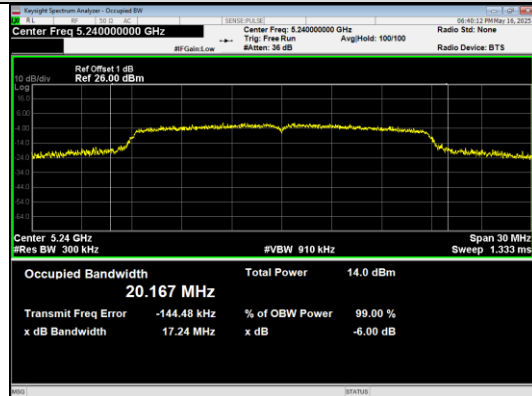
IEEE 802.11n_Channel 46_40MHz_Antenna 0



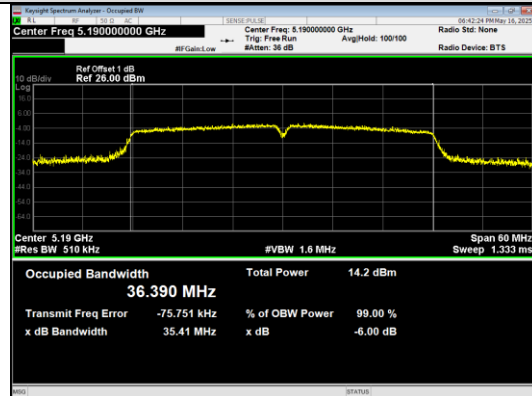
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



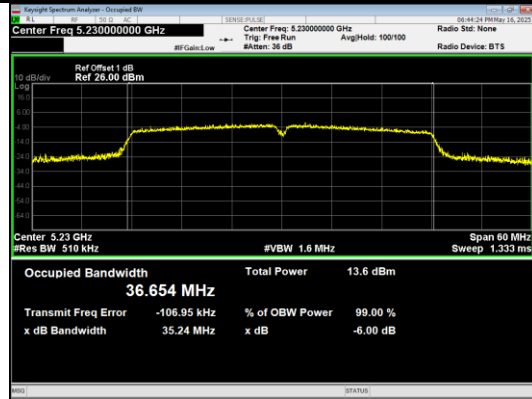
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



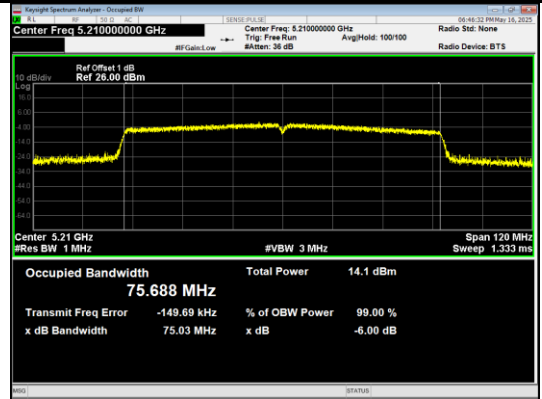
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



IEEE 802.11ac_Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0



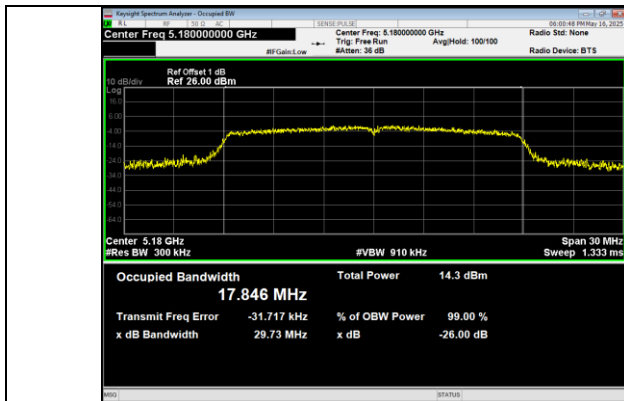
IEEE 802.11ac_Channel 42_80MHz_Antenna 0

26dB Bandwidth

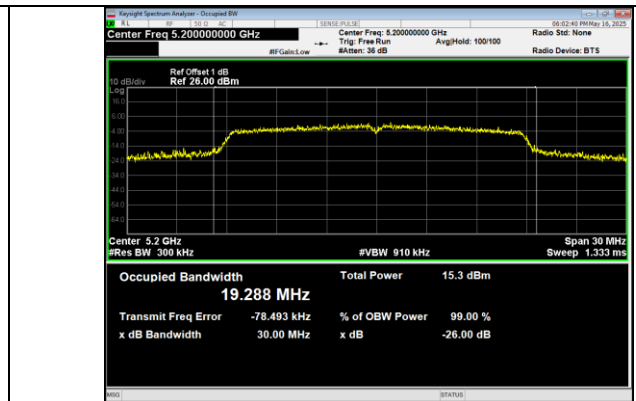
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	36	0	5180	29.73	1.01
	40		5200	30.00	1.0
	48		5240	30.00	1.0
IEEE 802.11n_20	36		5180	29.82	1.01
	40		5200	29.99	1.0
	48		5240	30.00	1.0
IEEE 802.11n_40	38		5190	59.23	1.05
	46		5230	59.95	1.03
IEEE 802.11ac_20	36		5180	29.88	1.0
	40		5200	29.93	1.0
	48		5240	30.00	1.0
IEEE 802.11ac_40	38		5190	59.99	1.02
	46		5230	59.89	1.03
IEEE 802.11ac_80	42		5210	119.62	1.02

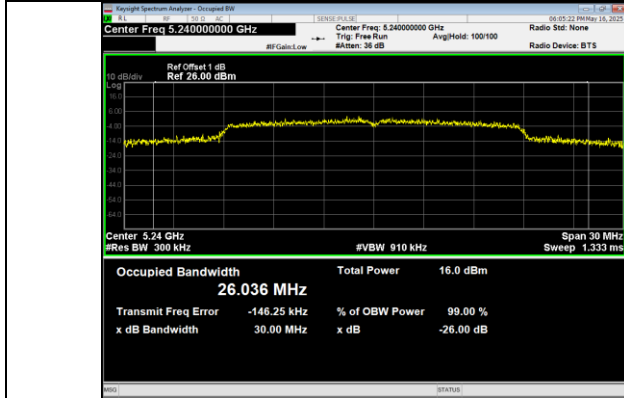
Test Graphs



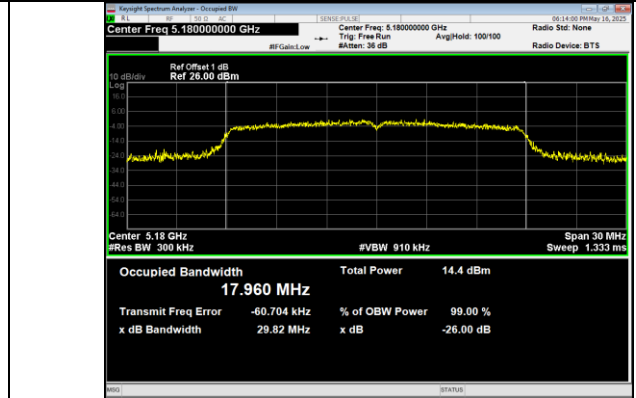
IEEE 802.11a_Channel 36_20MHz_Antenna 0



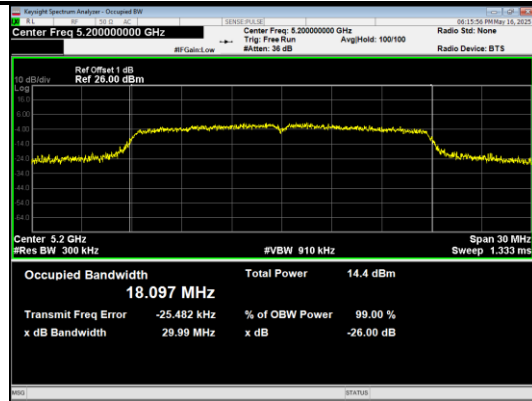
IEEE 802.11a_Channel 40_20MHz_Antenna 0



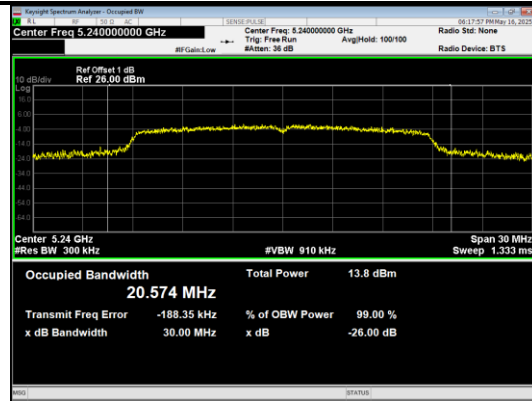
IEEE 802.11a_Channel 48_20MHz_Antenna 0



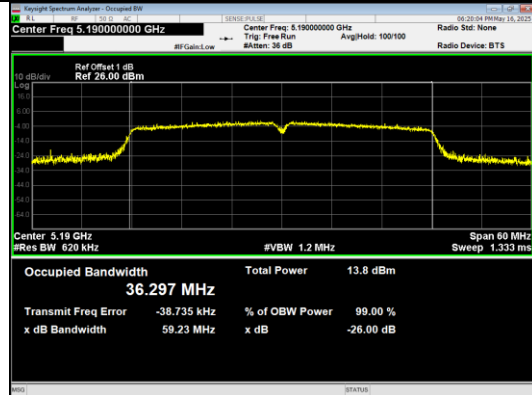
IEEE 802.11n_Channel 36_20MHz_Antenna 0



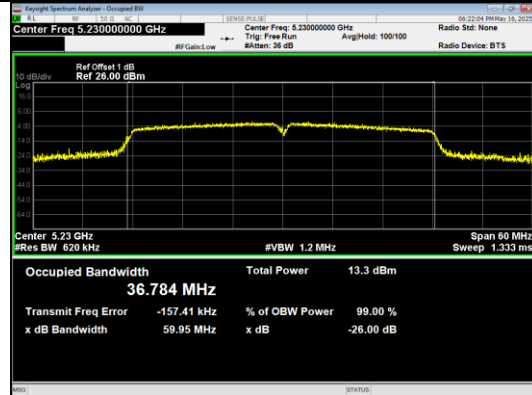
IEEE 802.11n_Channel 40_20MHz_Antenna 0



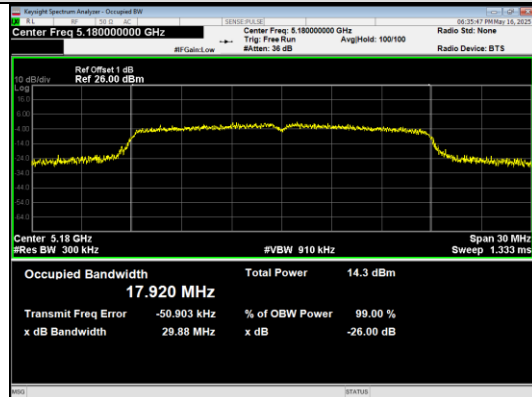
IEEE 802.11n_Channel 48_20MHz_Antenna 0



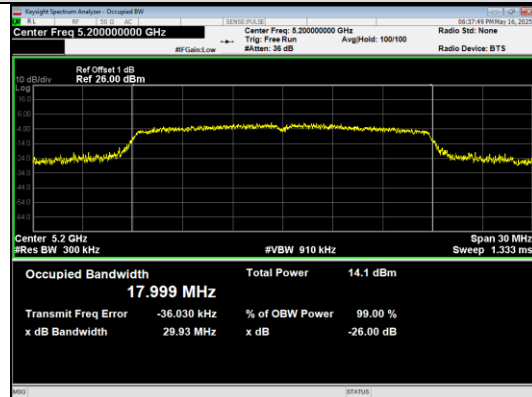
IEEE 802.11n_Channel 38_40MHz_Antenna 0



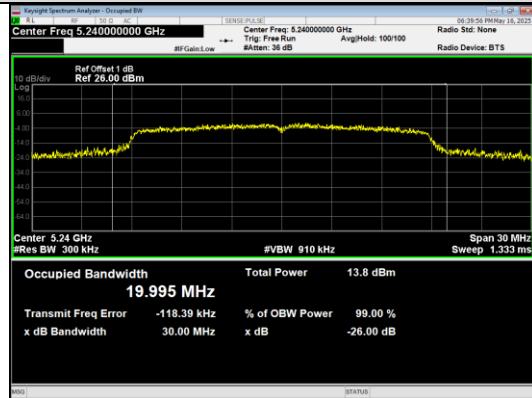
IEEE 802.11n_Channel 46_40MHz_Antenna 0



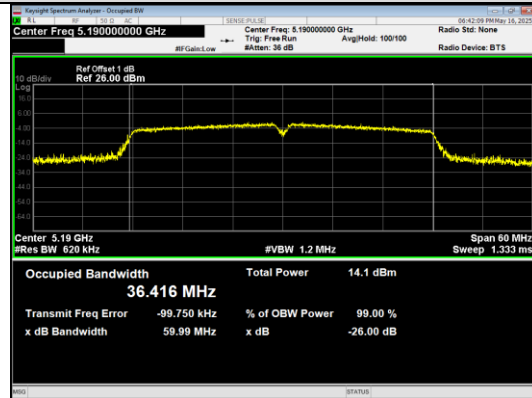
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



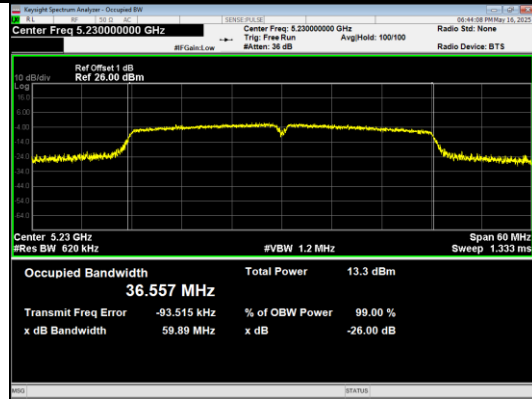
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



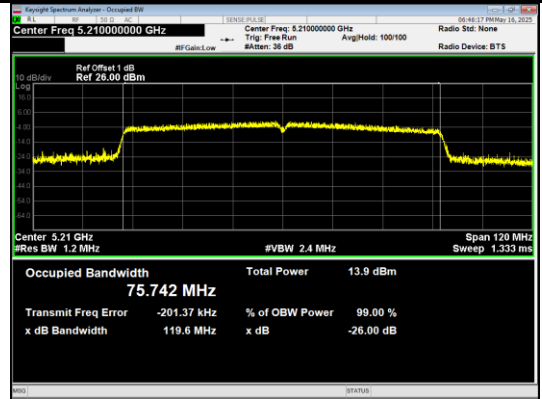
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



IEEE 802.11ac_Channel 38_40MHz_Antenna 0



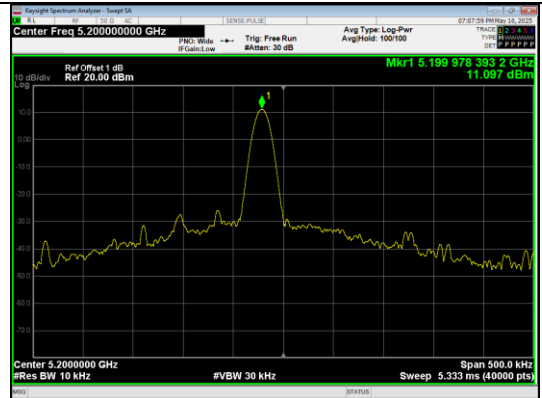
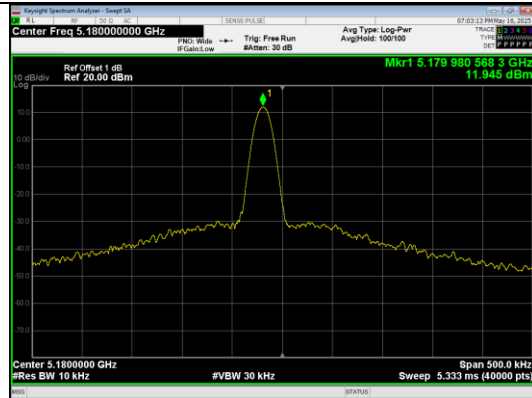
IEEE 802.11ac_Channel 46_40MHz_Antenna 0



IEEE 802.11ac_Channel 42_80MHz_Antenna 0

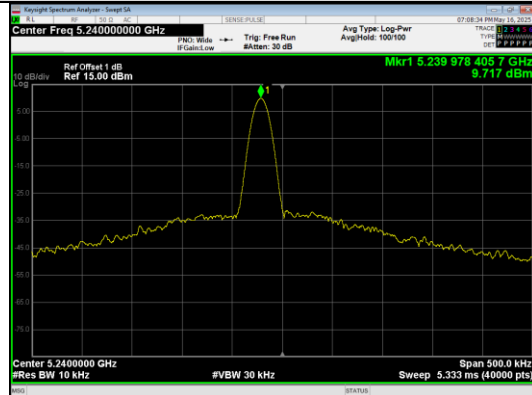
**Frequency Stability****Test Result**

Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	36	0	5180.0	5179.980568	-3.75	Within authorized band	PASS
		40		5200.0	5199.978393	-4.16		PASS
		48		5240.0	5239.978406	-4.12		PASS
	IEEE 802.11n_20	36		5180.0	5179.978343	-4.18		PASS
		40		5200.0	5199.978006	-4.23		PASS
		48		5240.0	5239.977693	-4.26		PASS
	IEEE 802.11n_40	38		5190.0	5189.978131	-4.21		PASS
		46		5230.0	5229.977756	-4.25		PASS
	IEEE 802.11ac_20	36		5180.0	5179.977606	-4.32		PASS
		40		5200.0	5199.977543	-4.32		PASS
		48		5240.0	5239.977331	-4.33		PASS
	IEEE 802.11ac_40	38		5190.0	5189.977806	-4.28		PASS
		46		5230.0	5229.977293	-4.34		PASS
	IEEE 802.11ac_80	42		5210.0	5209.977181	-4.38		PASS

Test Graphs**NT/NV****IEEE 802.11a**

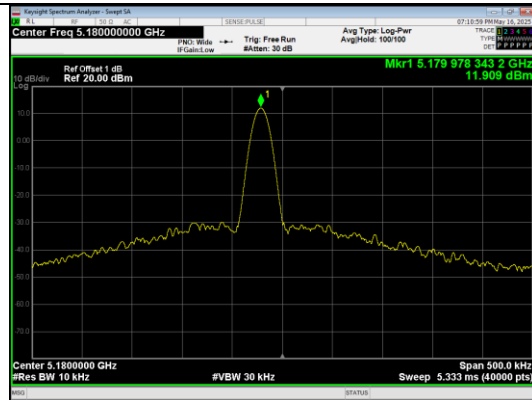
NT/NV_Antenna 0
IEEE 802.11a_Channel 36_20MHz

NT/NV_Antenna 0
IEEE 802.11a_Channel 40_20MHz



NT/NV_Antenna 0
IEEE 802.11a_Channel 48_20MHz

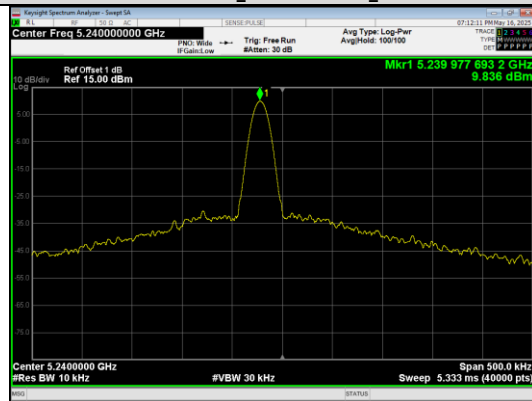
IEEE 802.11n_20



NT/NV_Antenna 0
IEEE 802.11n_Channel 36_20MHz

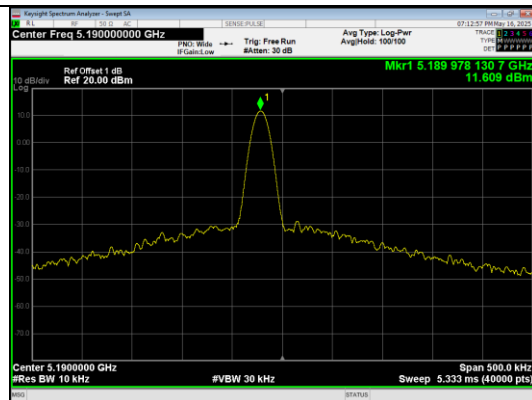


NT/NV_Antenna 0
IEEE 802.11n_Channel 40_20MHz

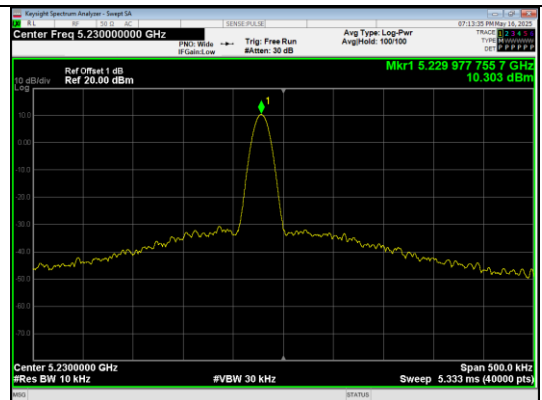


NT/NV_Antenna 0
IEEE 802.11n_Channel 48_20MHz

IEEE 802.11n_40

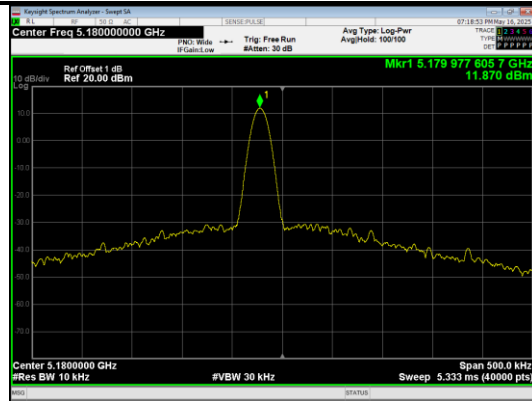


NT/NV_Antenna 0
IEEE 802.11n_Channel 38_40MHz

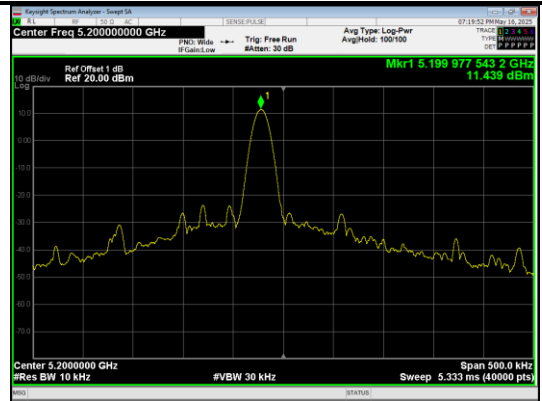


NT/NV_Antenna 0
IEEE 802.11n_Channel 46_40MHz

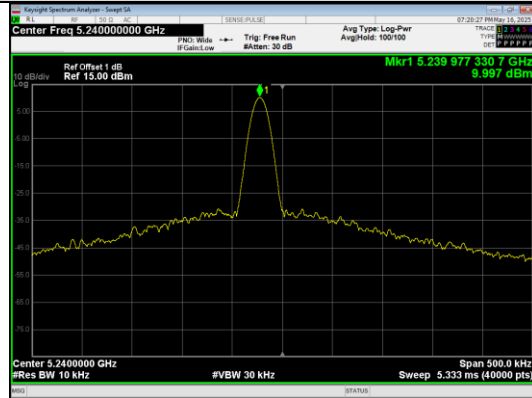
IEEE 802.11ac_20



NT/NV_Antenna 0
IEEE 802.11ac_Channel 36_20MHz

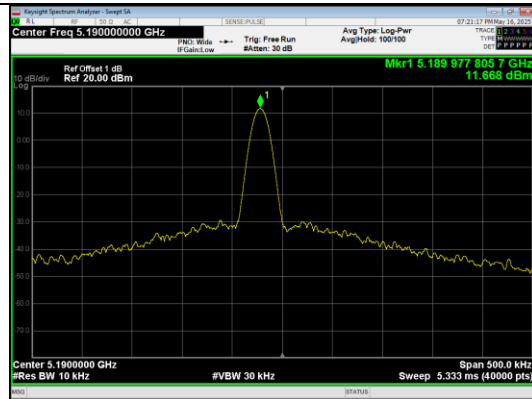


NT/NV_Antenna 0
IEEE 802.11ac_Channel 40_20MHz

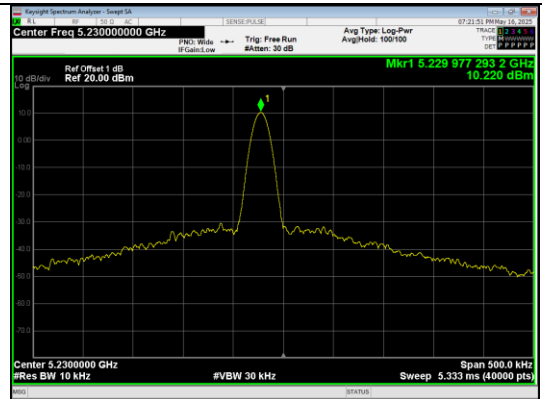


NT/NV_Antenna 0
IEEE 802.11ac_Channel 48_20MHz

IEEE 802.11ac_40

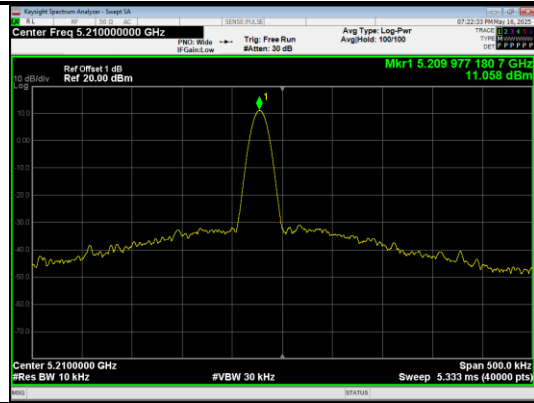


NT/NV_Antenna 0
IEEE 802.11ac_Channel 38_40MHz



NT/NV_Antenna 0
IEEE 802.11ac_Channel 46_40MHz

IEEE 802.11ac_80



NT/NV_Antenna 0
IEEE 802.11ac_Channel 42_80MHz

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