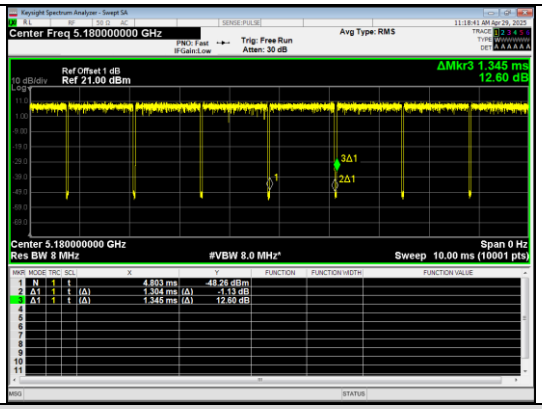
Duty Cycle

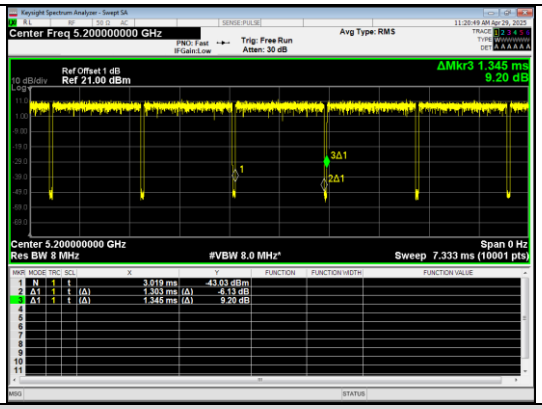
Test Result

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	1.304	1.345	96.95	0.9695	0.1345	0.7669
		40		1.303	1.345	96.91	0.9691	0.1363	0.7675
		48		1.304	1.346	96.88	0.9688	0.1377	0.7669
IEEE 802.11n_20	MCS 0	36		1.292	1.334	96.83	0.9683	0.1399	0.7740
		40		1.292	1.334	96.85	0.9685	0.139	0.7740
		48		1.292	1.333	96.92	0.9692	0.1359	0.7740
IEEE 802.11n_40		38		0.638	0.680	93.75	0.9375	0.2803	1.5674
		46		0.638	0.681	93.76	0.9376	0.2798	1.5674
IEEE 802.11ac_20		36		1.316	1.357	96.94	0.9694	0.135	0.7599
		40		1.316	1.357	96.98	0.9698	0.1332	0.7599
		48		1.315	1.358	96.88	0.9688	0.1377	0.7605
IEEE 802.11ac_40		38		1.315	1.357	96.88	0.9688	0.1377	0.7605
		46		0.655	0.697	93.97	0.9397	0.2701	1.5267
IEEE 802.11ac_80		42		0.325	0.369	88.14	0.8814	0.5483	3.0769

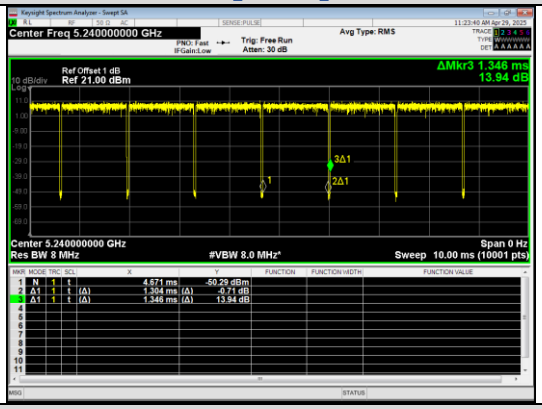
Test Graphs



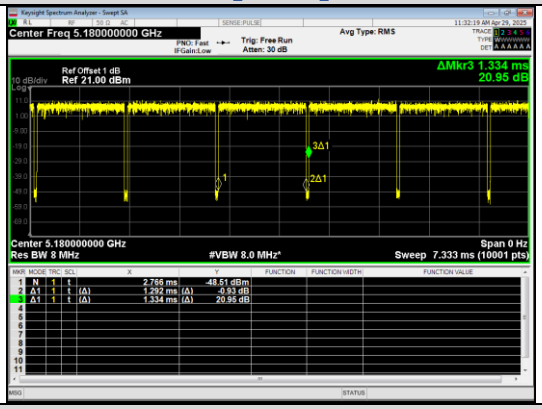
IEEE 802.11a_20MHz_Channel 36



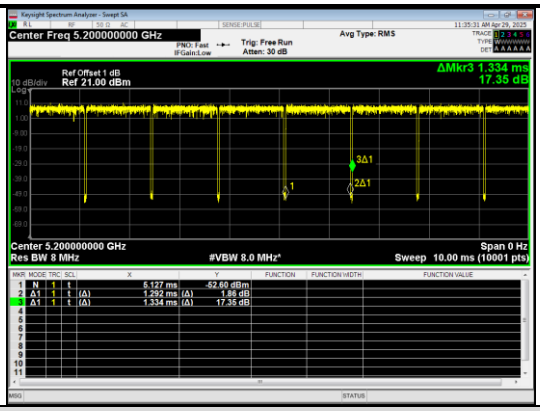
IEEE 802.11a_20MHz_Channel 40



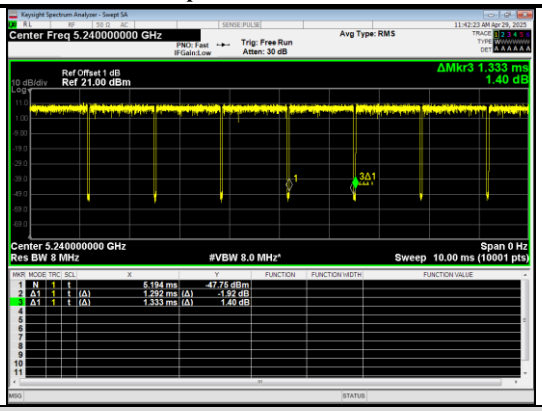
IEEE 802.11a_20MHz_Channel 48



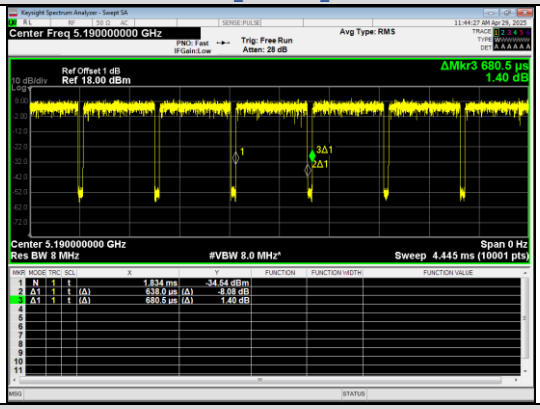
IEEE 802.11n_20MHz_Channel 36



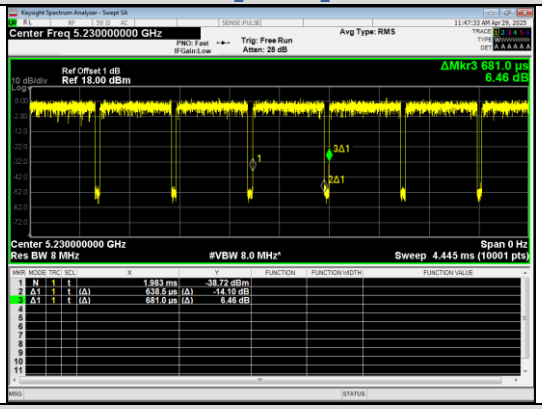
IEEE 802.11n_20MHz_Channel 40



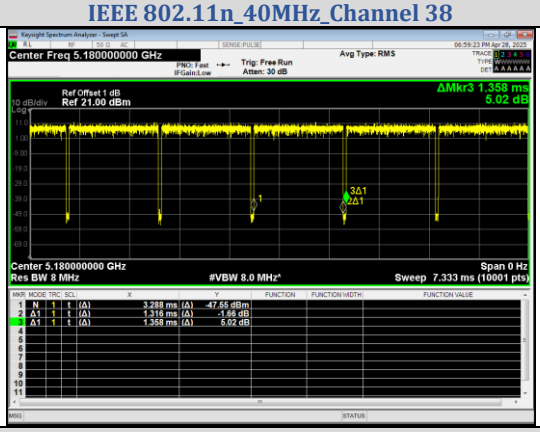
IEEE 802.11n_20MHz_Channel 48



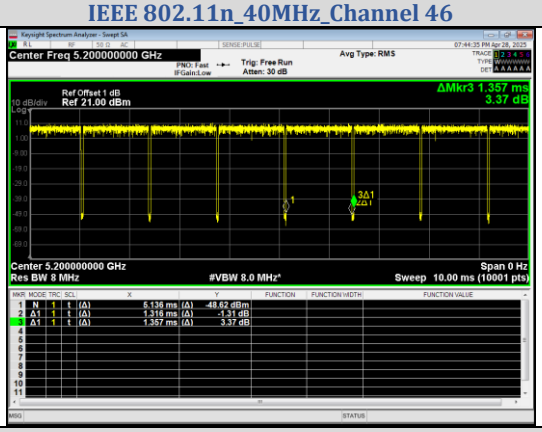
IEEE 802.11n_40MHz_Channel 38



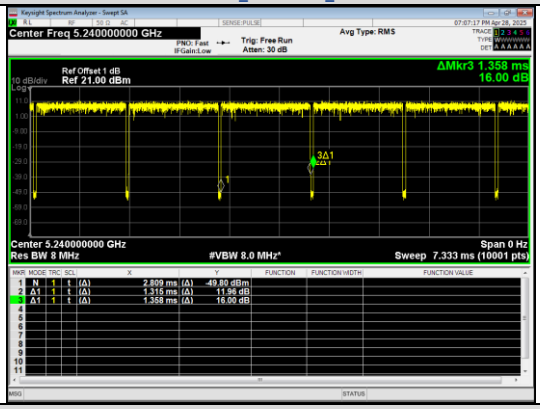
IEEE 802.11n_40MHz_Channel 46



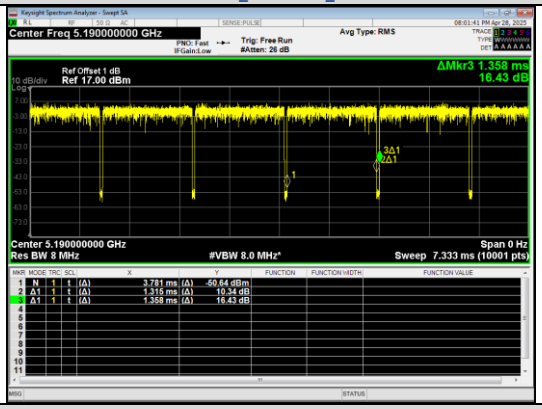
IEEE 802.11ac_20MHz_Channel 36



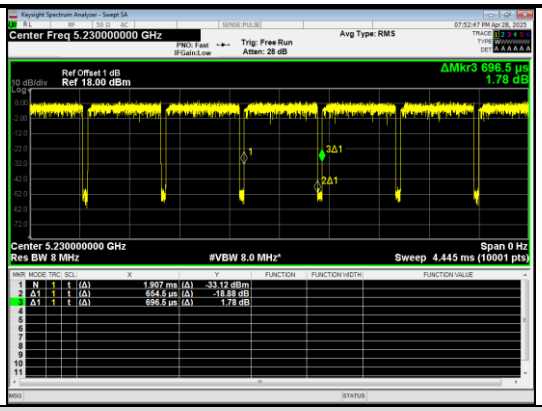
IEEE 802.11ac_20MHz_Channel 40



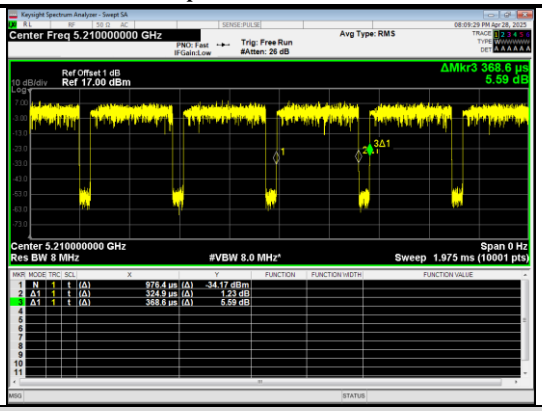
IEEE 802.11ac_20MHz_Channel 48



IEEE 802.11ac_40MHz_Channel 38



IEEE 802.11ac_40MHz_Channel 46

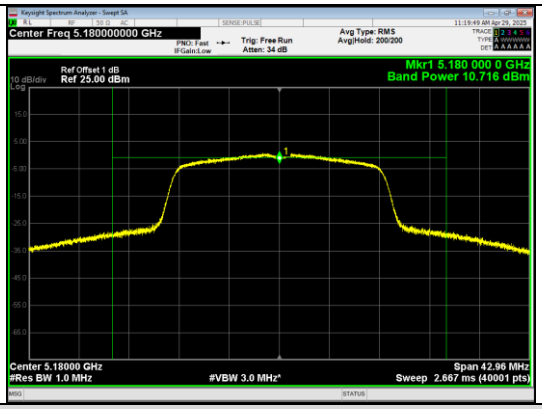


IEEE 802.11ac_80MHz_Channel 42

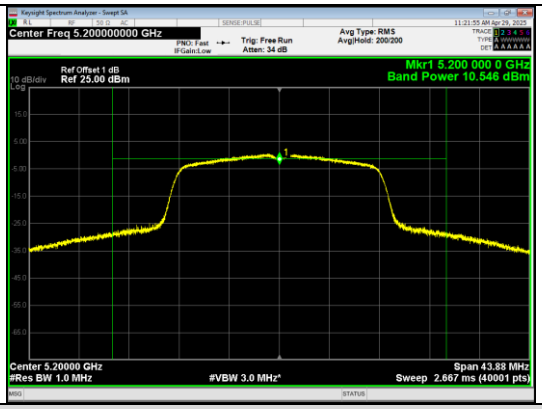
Conducted Output Power

Conducted output power

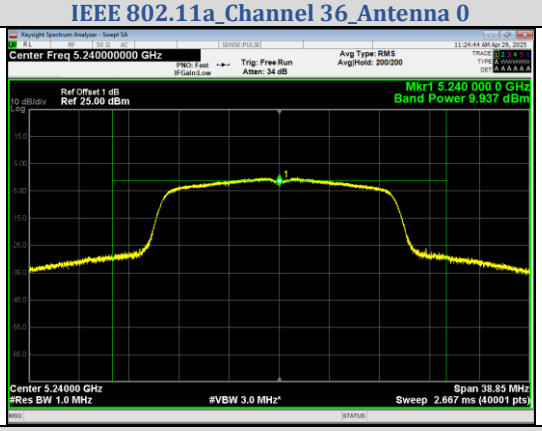
Mode	Channel	Ant. 0 (dBm)	Corr'd Value Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	36	10.716	10.85	≤24	PASS
	40	10.546	10.68	≤24	PASS
	48	9.937	10.07	≤24	PASS
IEEE 802.11n_20	36	10.434	10.57	≤24	PASS
	40	10.233	10.37	≤24	PASS
	48	9.997	10.13	≤24	PASS
IEEE 802.11n_40	38	10.089	10.37	≤24	PASS
	46	9.844	10.12	≤24	PASS
IEEE 802.11ac_20	36	10.695	10.83	≤24	PASS
	40	10.494	10.63	≤24	PASS
	48	10.078	10.21	≤24	PASS
IEEE 802.11ac_40	38	10.702	10.84	≤24	PASS
	46	10.458	10.6	≤24	PASS
IEEE 802.11ac_80	42	10.233	10.78	≤24	PASS



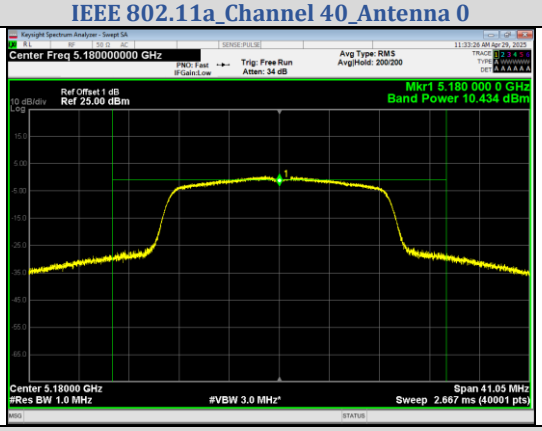
Conducted AVG output power
IEEE 802.11a_Channel 36_Antenna 0



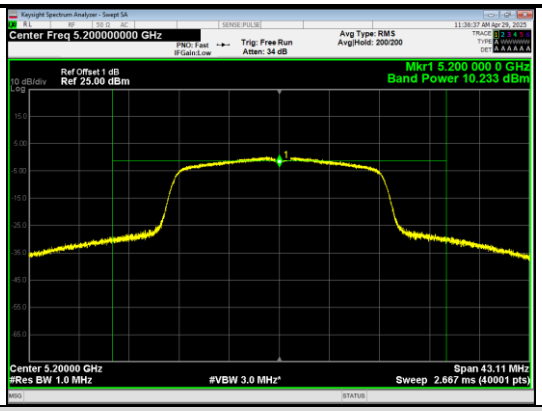
Conducted AVG output power
IEEE 802.11a_Channel 40_Antenna 0



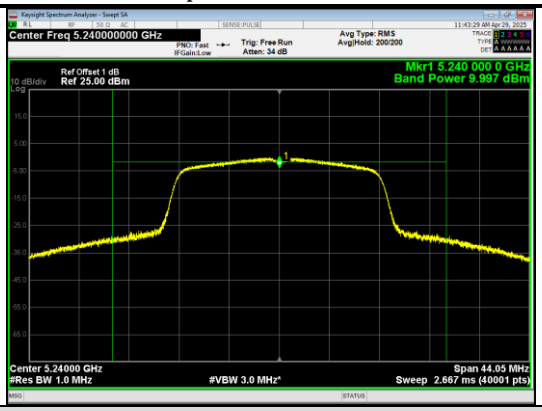
Conducted AVG output power
IEEE 802.11a_Channel 48_Antenna 0



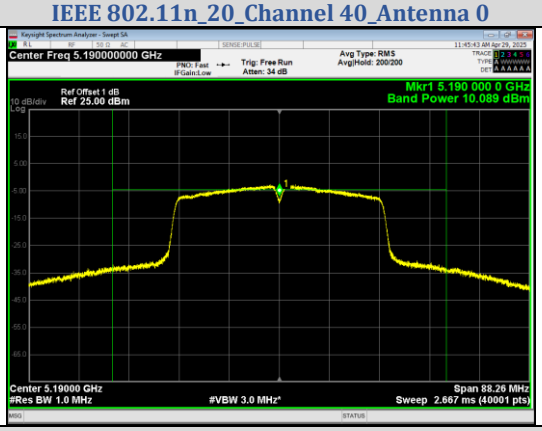
Conducted AVG output power
IEEE 802.11n_20_Channel 36_Antenna 0



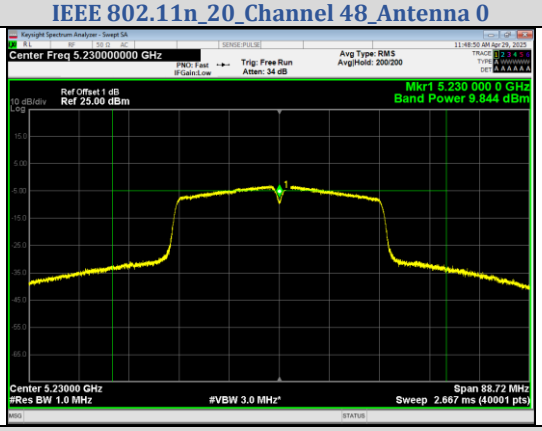
Conducted AVG output power
IEEE 802.11n_20_Channel 40_Antenna 0



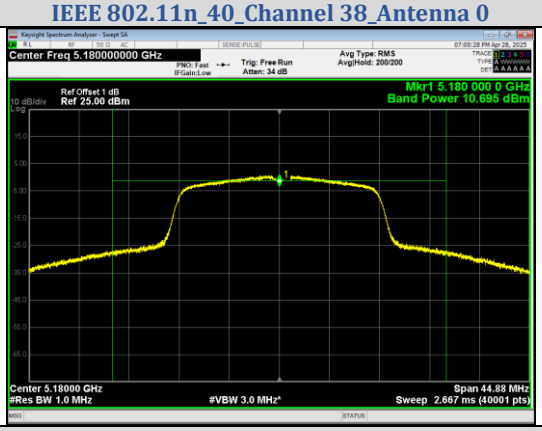
Conducted AVG output power
IEEE 802.11n_20_Channel 48_Antenna 0



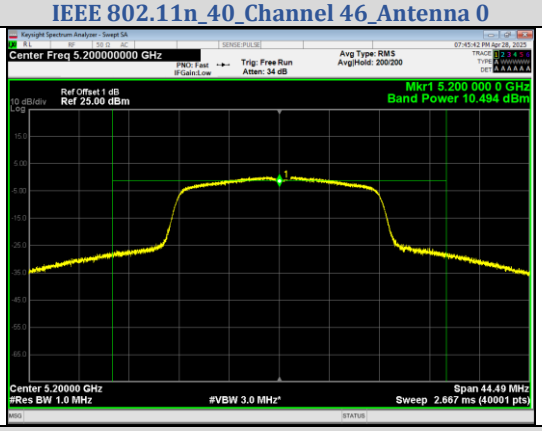
Conducted AVG output power
IEEE 802.11n_40_Channel 38_Antenna 0



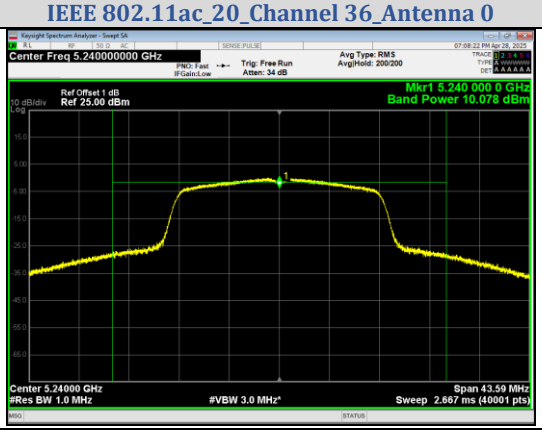
Conducted AVG output power
IEEE 802.11n_40_Channel 46_Antenna 0



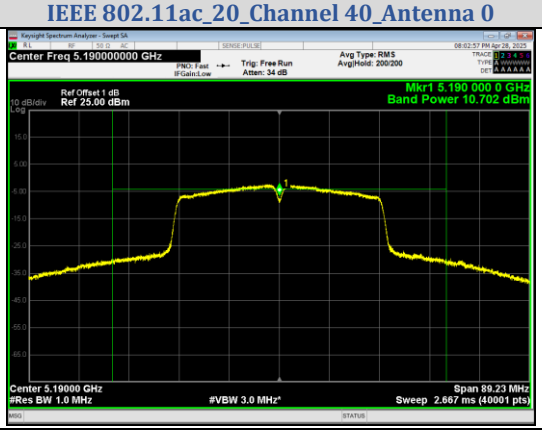
Conducted AVG output power
IEEE 802.11ac_20_Channel 36_Antenna 0



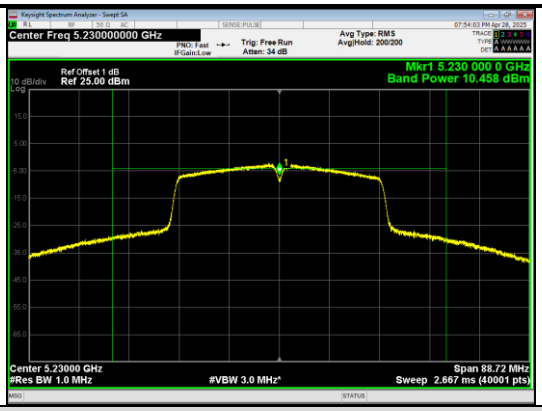
Conducted AVG output power
IEEE 802.11ac_20_Channel 40_Antenna 0



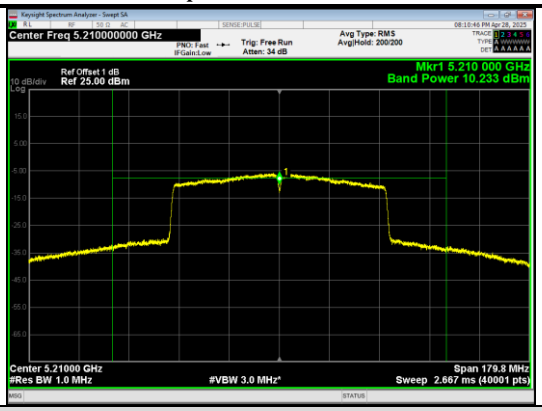
Conducted AVG output power
IEEE 802.11ac_20_Channel 48_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 38_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 46_Antenna 0



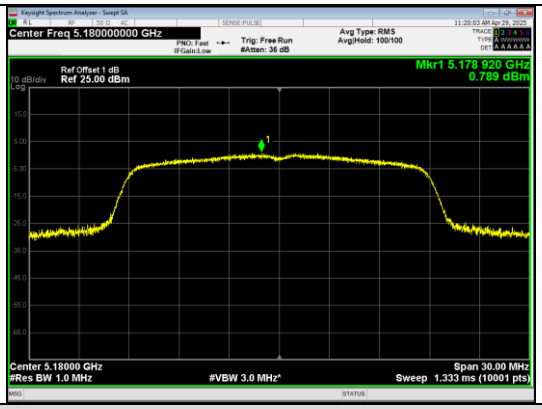
Conducted AVG output power
IEEE 802.11ac_80_Channel 42_Antenna 0

Power Spectral Density

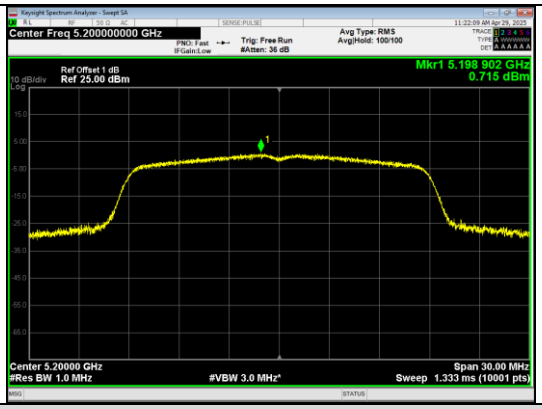
Test Result

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	0.789	0.927	11	PASS
	40	0.715	0.853		PASS
	48	0.329	0.467		PASS
IEEE 802.11n_20	36	0.497	0.633		PASS
	40	0.376	0.512		PASS
	48	0.687	0.823		PASS
IEEE 802.11n_40	38	-2.697	-2.417		PASS
	46	-2.651	-2.371		PASS
IEEE 802.11ac_20	36	1.076	1.209		PASS
	40	0.484	0.617		PASS
	48	0.452	0.585		PASS
IEEE 802.11ac_40	38	-2.431	-2.293		PASS
	46	-2.082	-1.944		PASS
IEEE 802.11ac_80	42	-5.718	-5.17		PASS

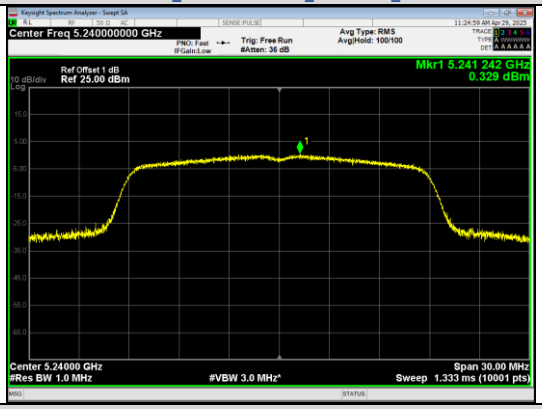
Test Graphs



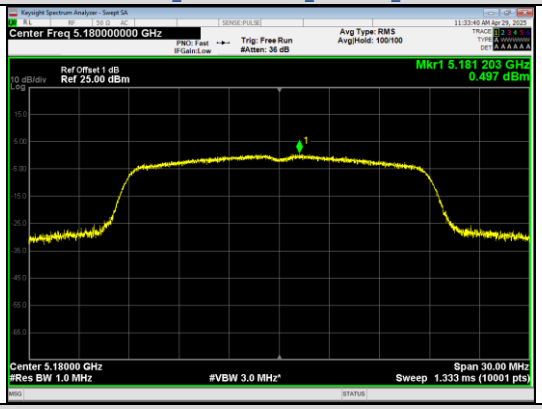
IEEE 802.11a_Channel 36_20MHz_Antenna 0



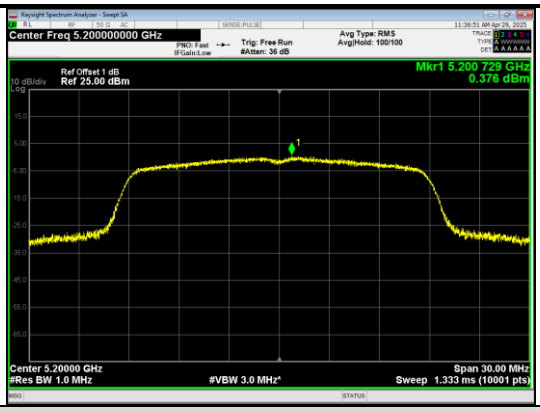
IEEE 802.11a_Channel 40_20MHz_Antenna 0



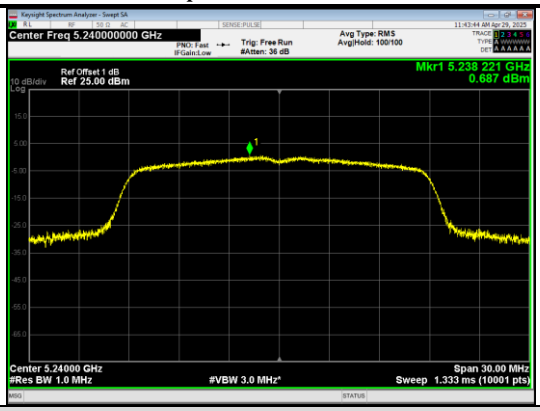
IEEE 802.11a_Channel 48_20MHz_Antenna 0



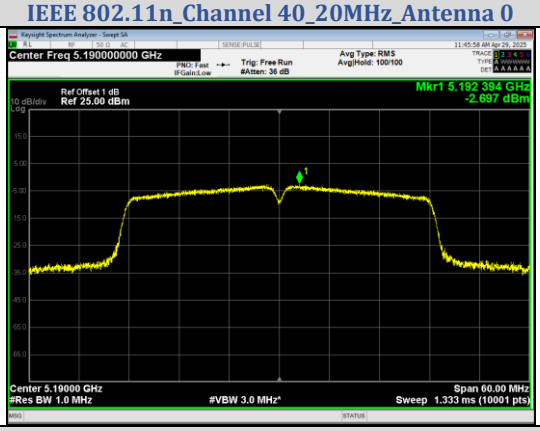
IEEE 802.11n_Channel 36_20MHz_Antenna 0



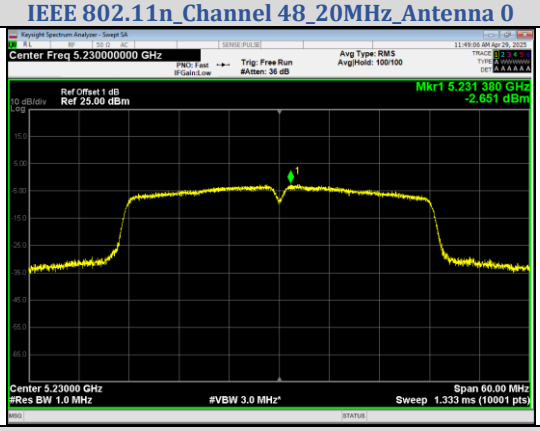
IEEE 802.11n_Channel 40_20MHz_Antenna 0



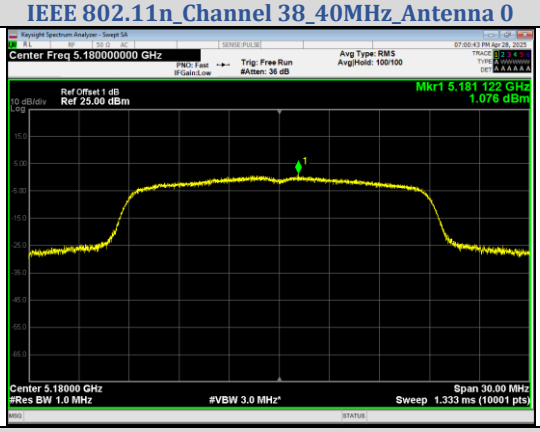
IEEE 802.11n_Channel 48_20MHz_Antenna 0



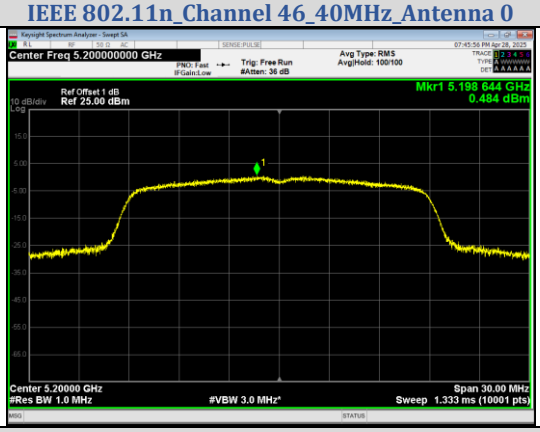
IEEE 802.11n_Channel 38_40MHz_Antenna 0



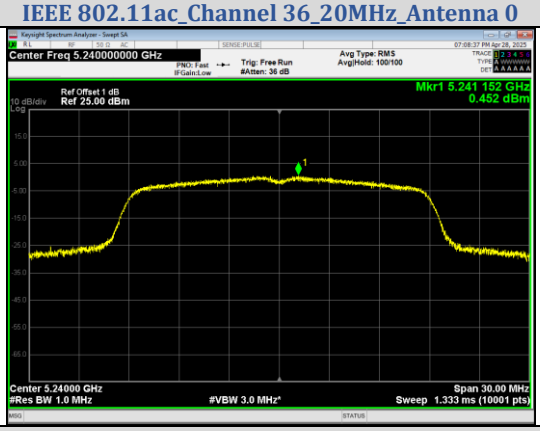
IEEE 802.11n_Channel 46_40MHz_Antenna 0



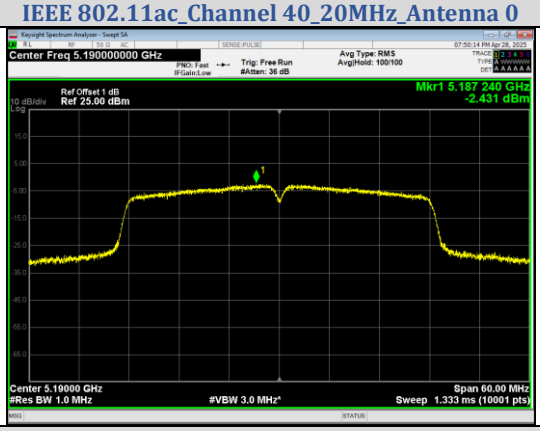
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



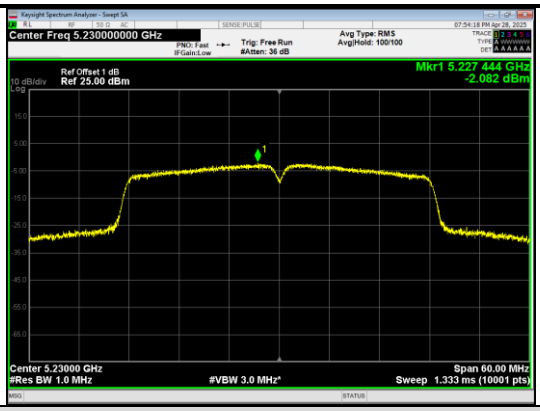
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



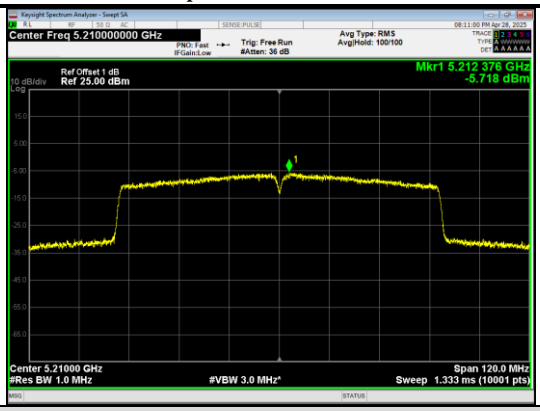
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



IEEE 802.11ac_Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0



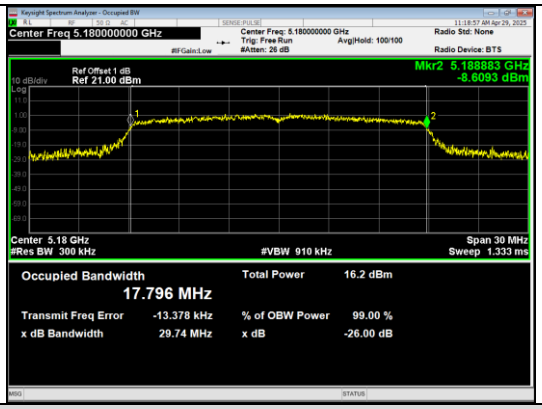
IEEE 802.11ac_Channel 42_80MHz_Antenna 0

99% Bandwidth

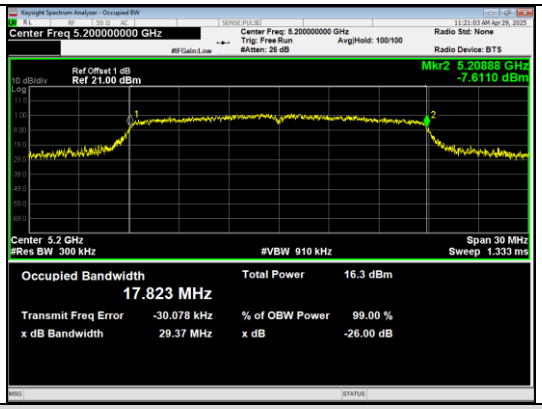
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	36	0	5180	17.796
	40		5200	17.823
	48		5240	17.763
IEEE 802.11n_20	36		5180	17.814
	40		5200	17.785
	48		5240	17.829
IEEE 802.11n_40	38		5190	36.211
	46		5230	36.206
IEEE 802.11ac_20	36		5180	17.923
	40		5200	17.935
	48		5240	17.848
IEEE 802.11ac_40	38		5190	36.316
	46		5230	36.292
IEEE 802.11ac_80	42		5210	75.792

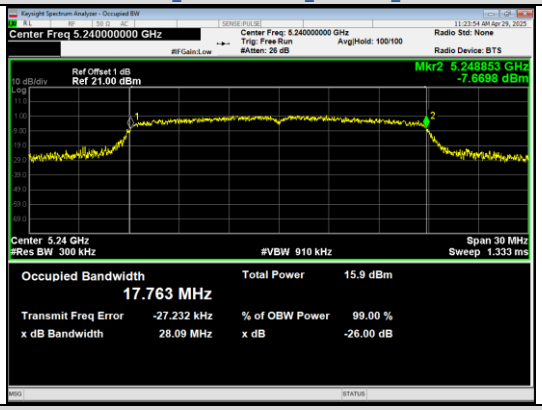
Test Graphs



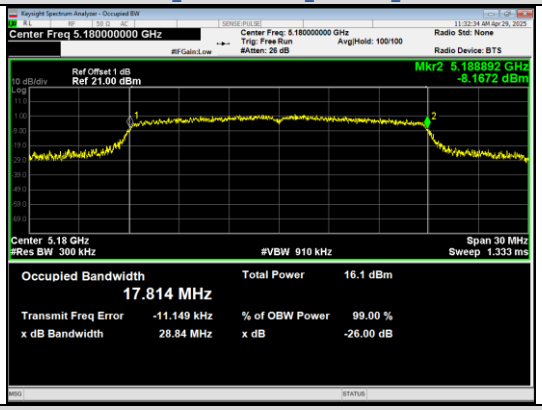
IEEE 802.11a_Channel 36_20MHz_Antenna 0



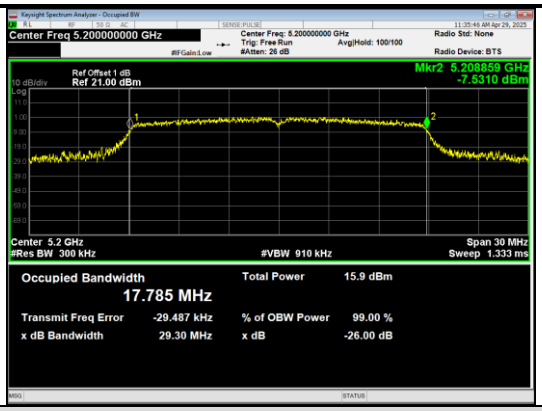
IEEE 802.11a_Channel 40_20MHz_Antenna 0



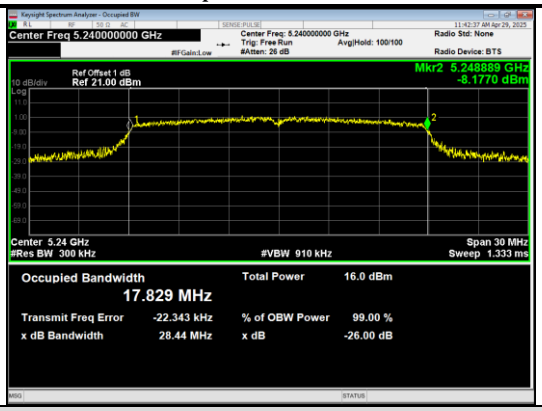
IEEE 802.11a_Channel 48_20MHz_Antenna 0



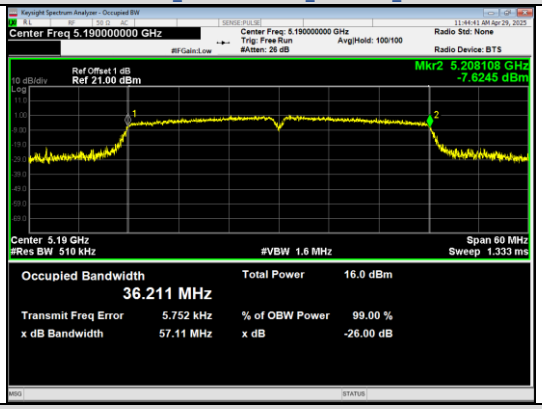
IEEE 802.11n_Channel 36_20MHz_Antenna 0



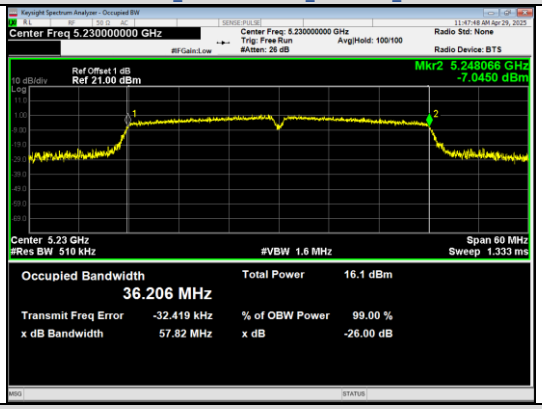
IEEE 802.11n_Channel 40_20MHz_Antenna 0



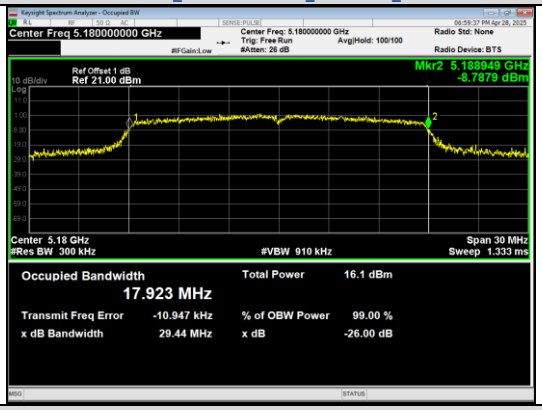
IEEE 802.11n_Channel 48_20MHz_Antenna 0



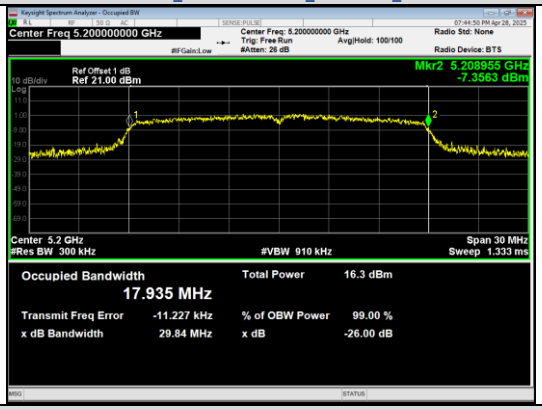
IEEE 802.11n_Channel 38_40MHz_Antenna 0



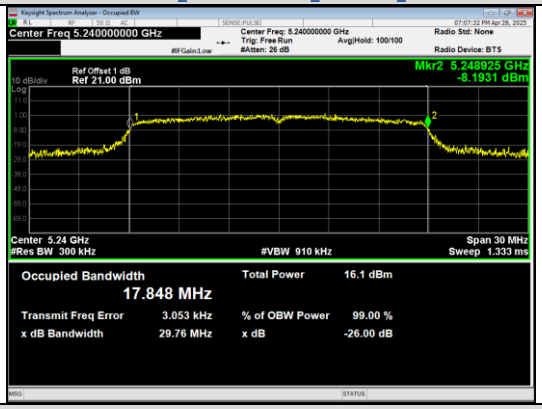
IEEE 802.11n_Channel 46_40MHz_Antenna 0



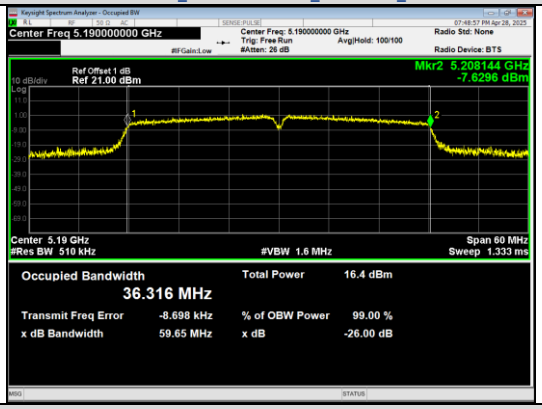
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



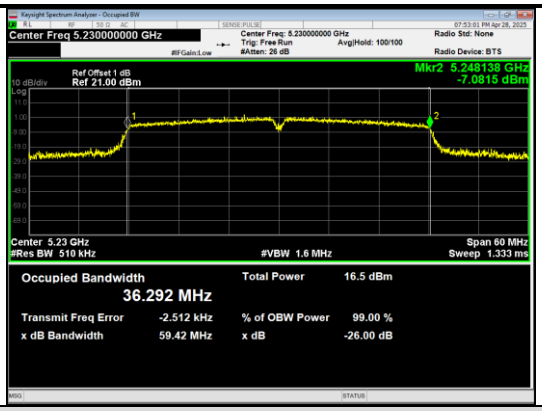
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



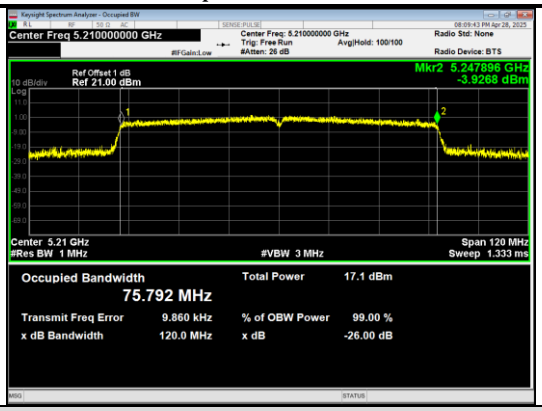
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



IEEE 802.11ac_Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0



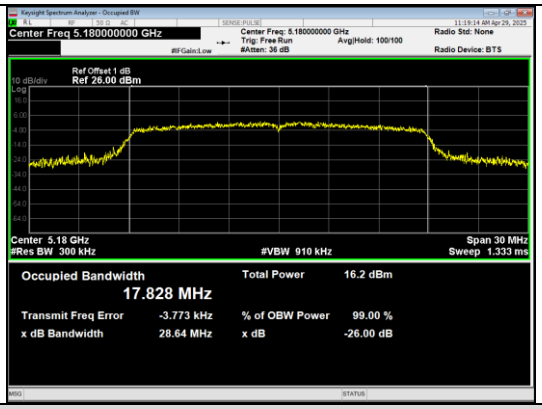
IEEE 802.11ac_Channel 42_80MHz_Antenna 0

26dB Bandwidth

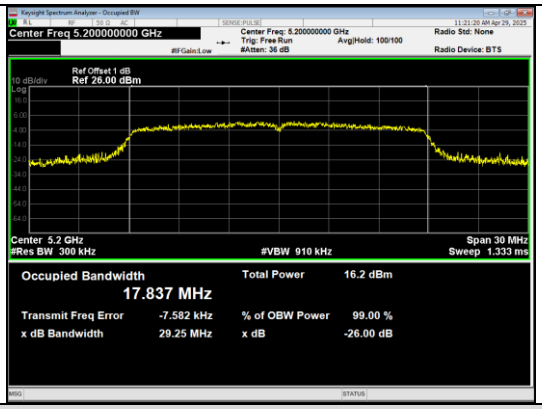
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	36	0	5180	28.64	1.05
	40		5200	29.25	1.03
	48		5240	25.90	1.16
IEEE 802.11n_20	36		5180	27.37	1.1
	40		5200	28.74	1.04
	48		5240	29.37	1.02
IEEE 802.11n_40	38		5190	58.84	1.01
	46		5230	59.15	1.01
IEEE 802.11ac_20	36		5180	29.92	1.0
	40		5200	29.66	1.01
	48		5240	29.06	1.03
IEEE 802.11ac_40	38		5190	59.49	1.07
	46		5230	59.15	1.04
IEEE 802.11ac_80	42		5210	119.87	1.02

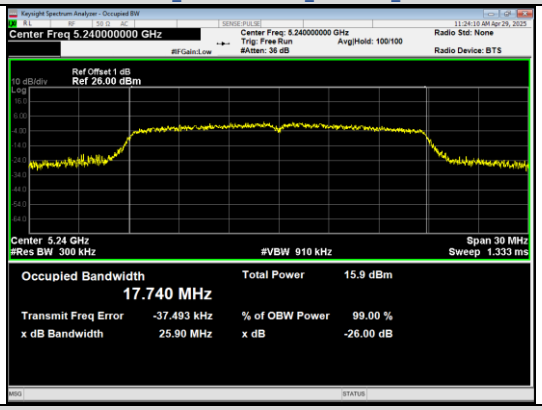
Test Graphs



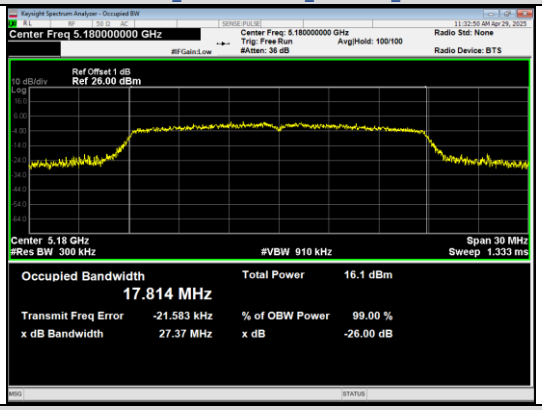
IEEE 802.11a_Channel 36_20MHz_Antenna 0



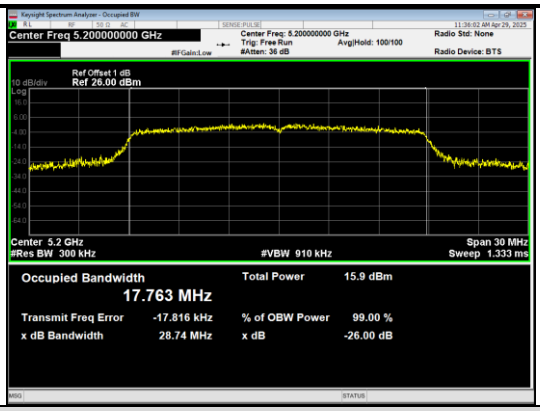
IEEE 802.11a_Channel 40_20MHz_Antenna 0



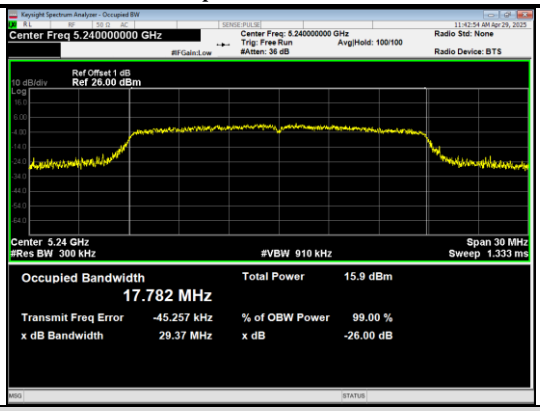
IEEE 802.11a_Channel 48_20MHz_Antenna 0



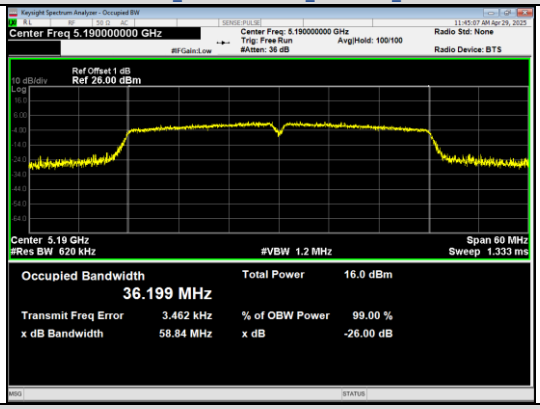
IEEE 802.11n_Channel 36_20MHz_Antenna 0



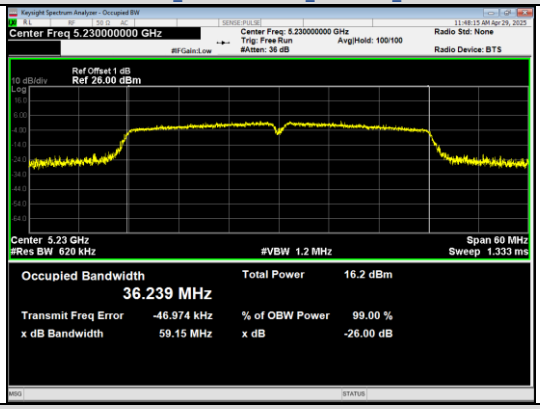
IEEE 802.11n_Channel 40_20MHz_Antenna 0



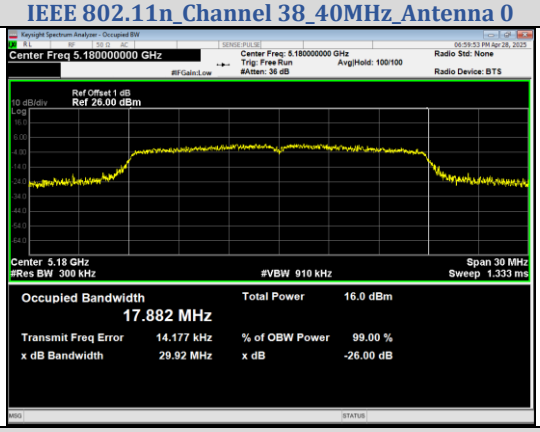
IEEE 802.11n_Channel 48_20MHz_Antenna 0



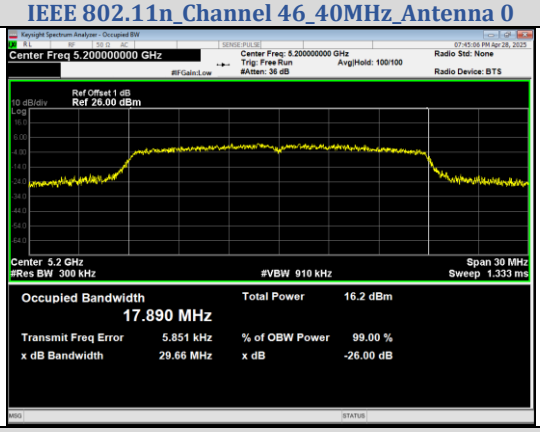
IEEE 802.11n_Channel 38_40MHz_Antenna 0



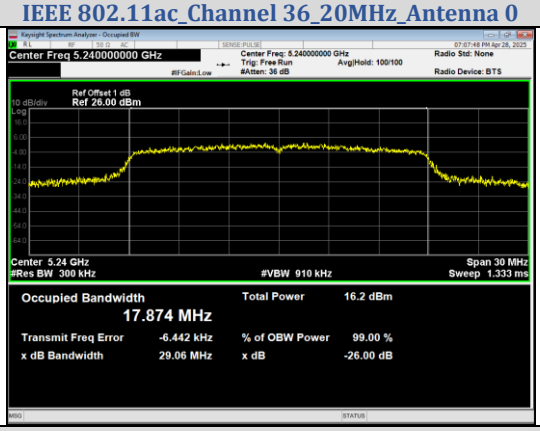
IEEE 802.11n_Channel 46_40MHz_Antenna 0



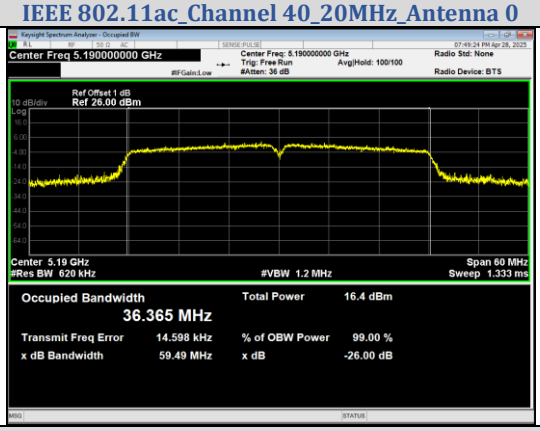
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



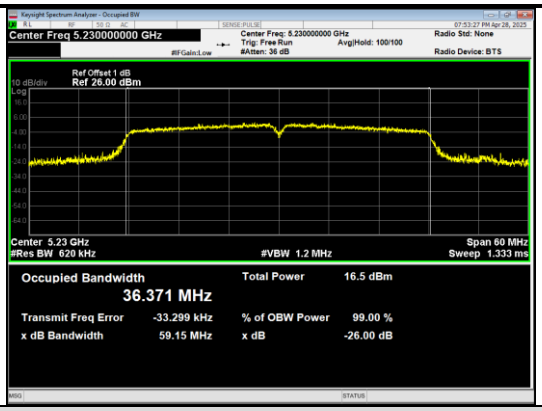
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



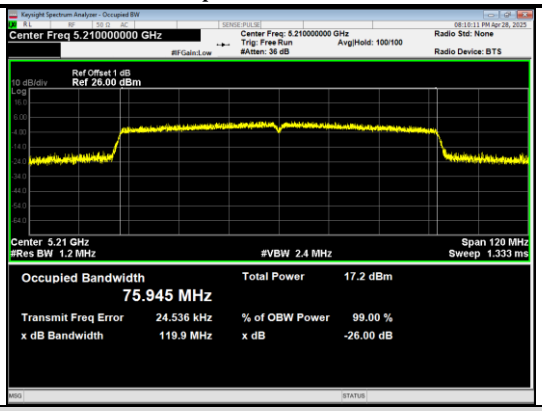
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



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

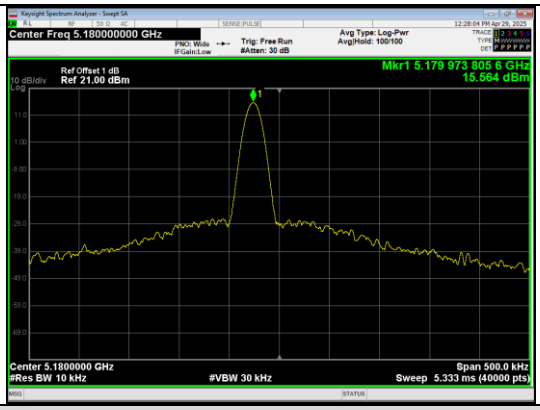
Test Result

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	5179.973806	-5.06	Within authorized band	PASS
		40		5200.0	5199.973268	-5.14		PASS
		48		5240.0	5239.973693	-5.02		PASS
	IEEE 802.11n_20	36		5180.0	5179.976631	-4.51		PASS
		40		5200.0	5199.978881	-4.06		PASS
		48		5240.0	5239.976968	-4.4		PASS
	IEEE 802.11n_40	38		5190.0	5189.977268	-4.38		PASS
		46		5230.0	5229.978018	-4.2		PASS
	IEEE 802.11ac_20	36		5180.0	5179.979681	-3.92		PASS
		40		5200.0	5199.979881	-3.87		PASS
		48		5240.0	5239.980893	-3.65		PASS
	IEEE 802.11ac_40	38		5190.0	5189.978918	-4.06		PASS
		46		5230.0	5229.977781	-4.25		PASS
	IEEE 802.11ac_80	42		5210.0	5209.977981	-4.23		PASS

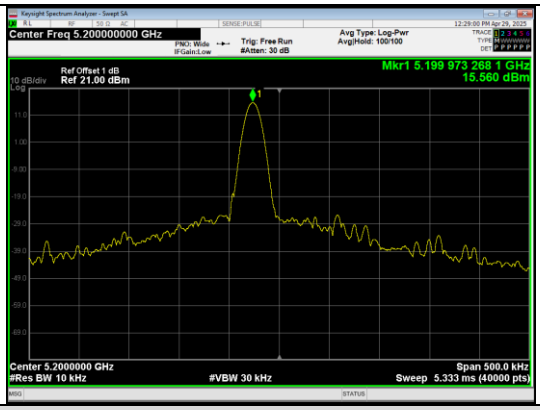
Test Graphs

NT/NV

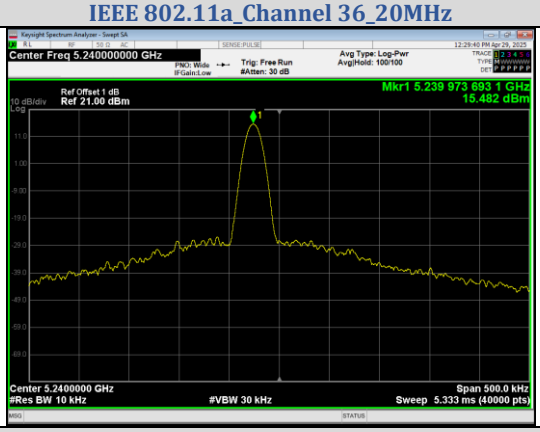
IEEE 802.11a



NT/NV_Antenna 0
IEEE 802.11a_Channel 36_20MHz

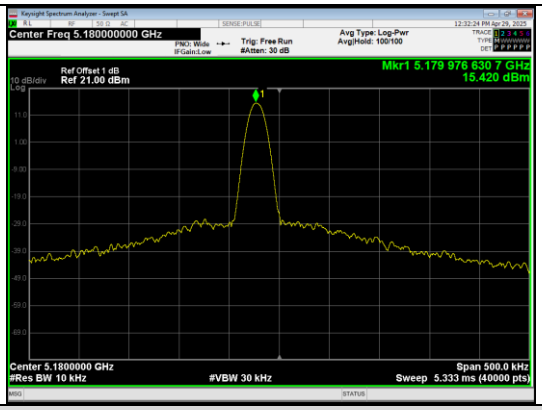


NT/NV_Antenna 0
IEEE 802.11a_Channel 40_20MHz

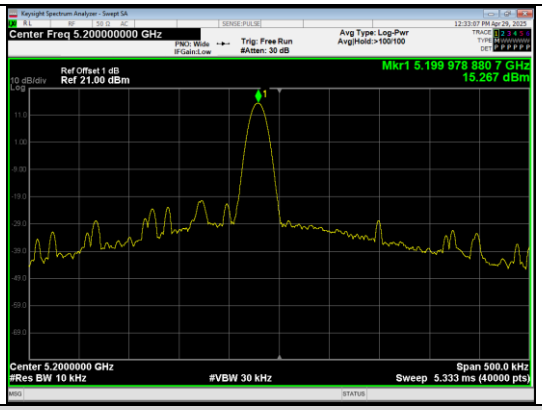


NT/NV_Antenna 0
IEEE 802.11a_Channel 48_20MHz

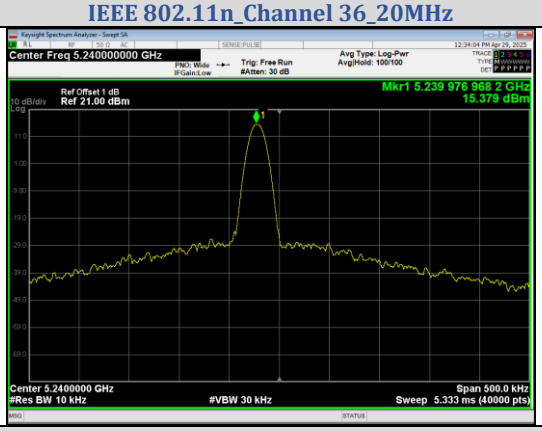
IEEE 802.11n_20



NT/NV_Antenna 0
IEEE 802.11n_Channel 36_20MHz

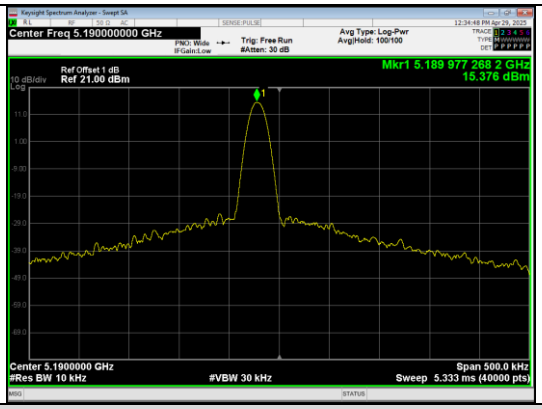


NT/NV_Antenna 0
IEEE 802.11n_Channel 40_20MHz

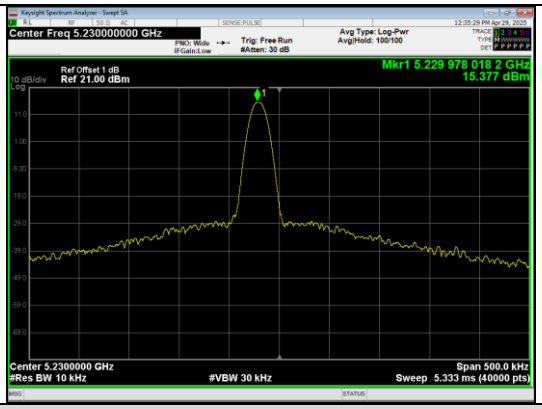


NT/NV_Antenna 0
IEEE 802.11n_Channel 48_20MHz

IEEE 802.11n_40

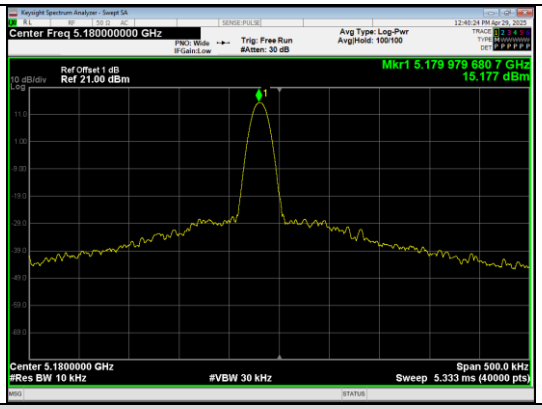


NT/NV_Antenna 0
IEEE 802.11n_Channel 38_40MHz

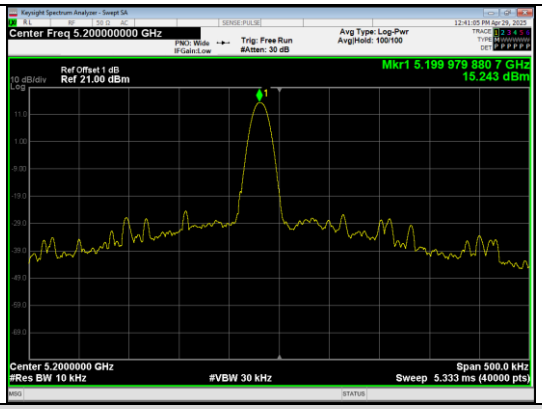


NT/NV_Antenna 0
IEEE 802.11n_Channel 46_40MHz

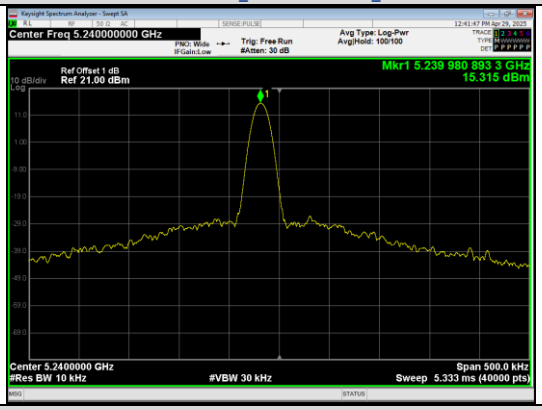
IEEE 802.11ac_20



NT/NV_Antenna 0
IEEE 802.11ac_Channel 36_20MHz

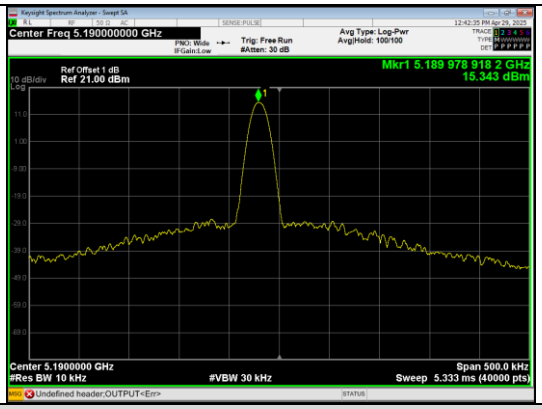


NT/NV_Antenna 0
IEEE 802.11ac_Channel 40_20MHz

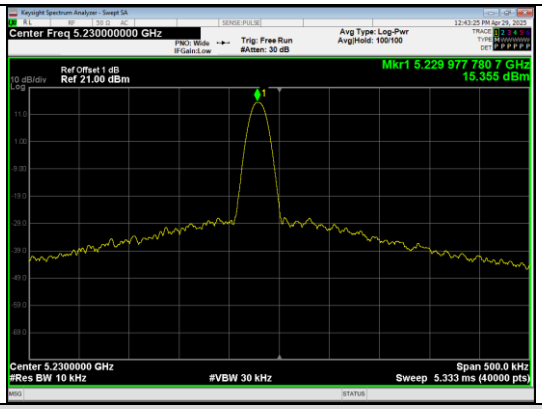


NT/NV_Antenna 0
IEEE 802.11ac_Channel 48_20MHz

IEEE 802.11ac_40

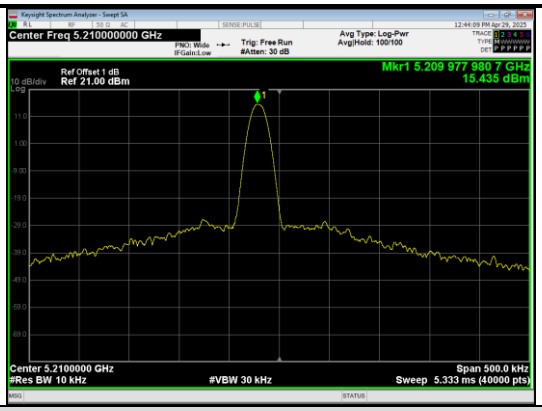


NT/NV_Antenna 0
IEEE 802.11ac_Channel 38_40MHz



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 **********