

Appendix C of data

C1.Maximum Peak conducted output power

Test Result

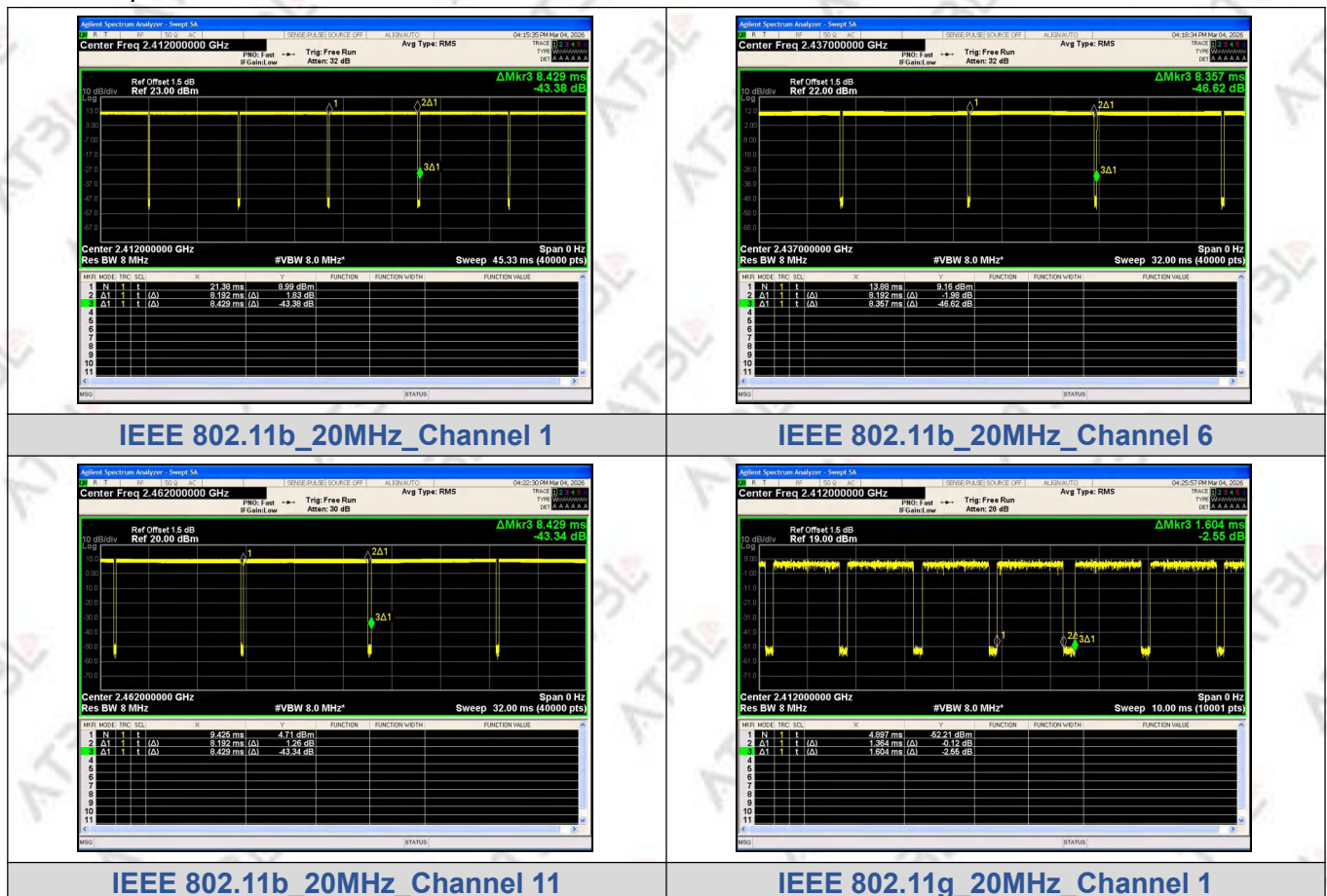
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	14.86	≤30	PASS
	6	14.65	≤30	PASS
	11	13.93	≤30	PASS
IEEE 802.11g	1	14.88	≤30	PASS
	6	14.75	≤30	PASS
	11	15.18	≤30	PASS
IEEE 802.11n_20	1	14.94	≤30	PASS
	6	14.77	≤30	PASS
	11	14.15	≤30	PASS
IEEE 802.11n_40	3	14.27	≤30	PASS
	6	14.67	≤30	PASS
	9	14.82	≤30	PASS

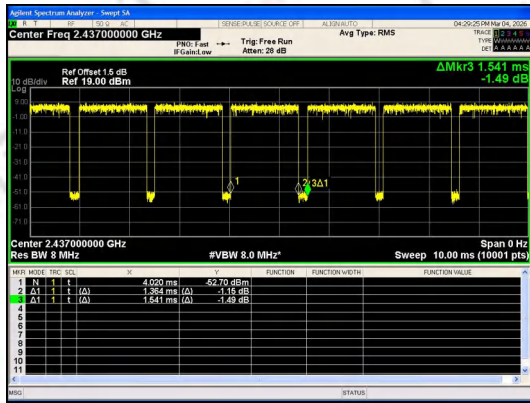
C2.Duty Cycle

Test Result

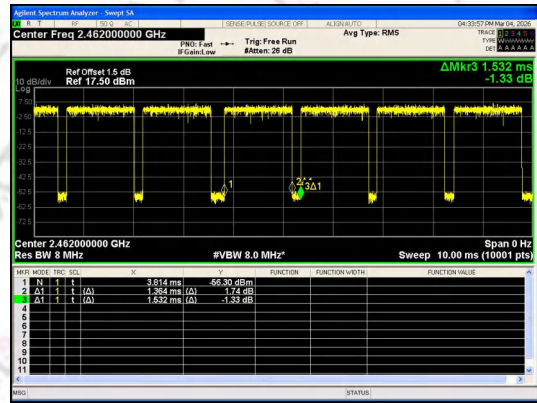
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	1	1	0	8.192	8.429	97.19	0.9719	0.1238
		6		8.192	8.357	98.03	0.9803	0.0864
		11		8.192	8.429	97.19	0.9719	0.1238
IEEE 802.11g	6	1		1.364	1.604	85.04	0.8504	0.7038
		6		1.364	1.541	88.51	0.8851	0.5301
		11		1.364	1.532	89.03	0.8903	0.5046
IEEE 802.11n_20	MCS 0	1		1.152	1.347	85.52	0.8552	0.6793
		6		1.153	1.320	87.35	0.8735	0.5874
		11		1.151	1.311	87.81	0.8781	0.5646
IEEE 802.11n_40		3		0.574	0.744	77.23	0.7723	1.1221
		6		0.575	0.735	78.22	0.7822	1.0668
		9		0.574	0.744	77.23	0.7723	1.1221

Test Graphs

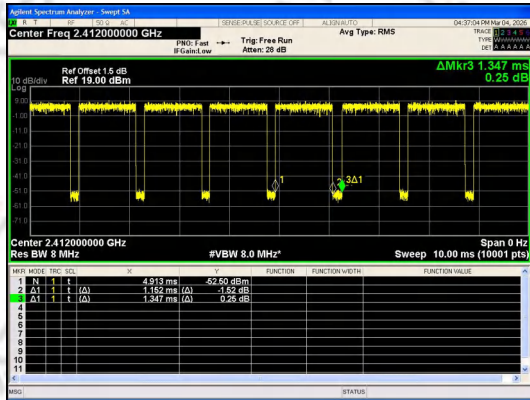




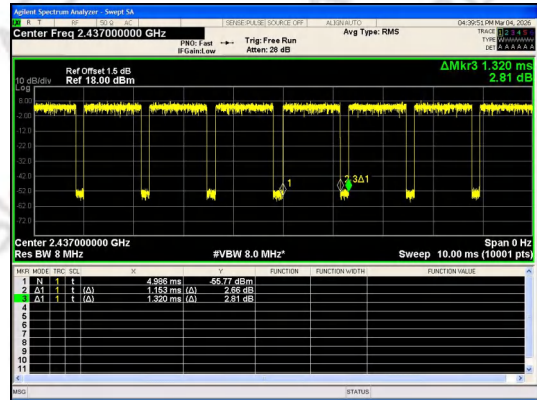
IEEE 802.11g_20MHz_Channel 6



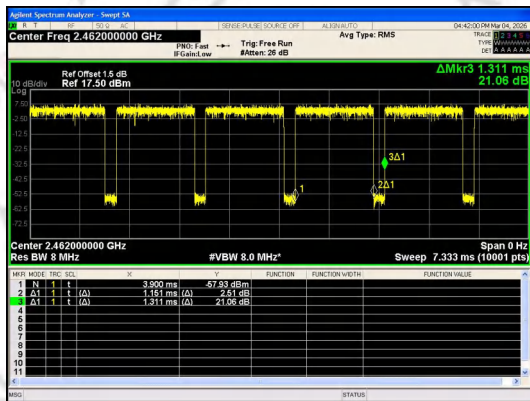
IEEE 802.11g_20MHz_Channel 11



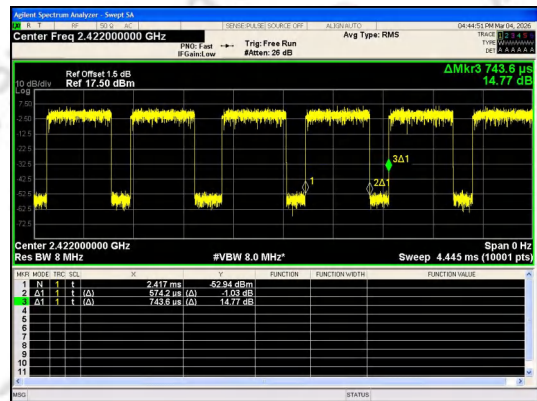
IEEE 802.11n_20MHz_Channel 1



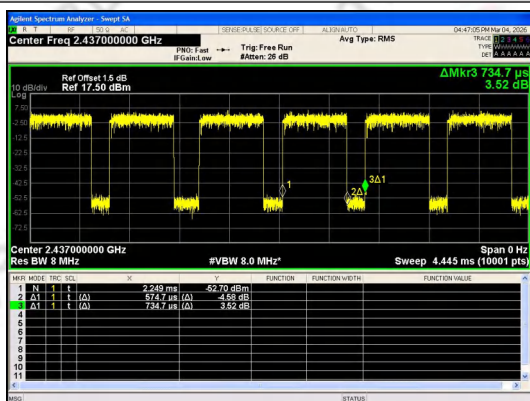
IEEE 802.11n_20MHz_Channel 6



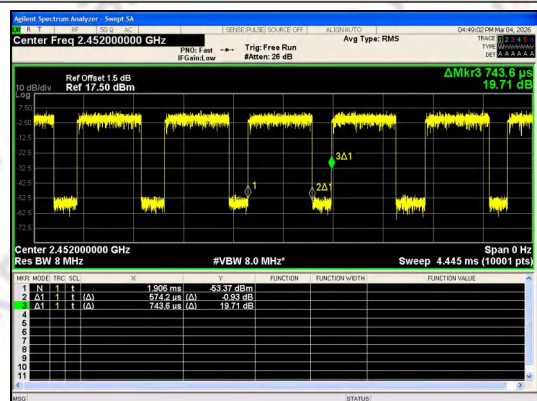
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



IEEE 802.11n_40MHz_Channel 9

C3.6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	10.18	≥0.5	PASS
	6		2437	10.14		PASS
	11		2462	10.17		PASS
IEEE 802.11g	1		2412	16.35		PASS
	6		2437	23.13		PASS
	11		2462	16.36		PASS
IEEE 802.11n_20	1		2412	17.32		PASS
	6		2437	17.45		PASS
	11		2462	17.38		PASS
IEEE 802.11n_40	3		2422	35.68		PASS
	6		2437	35.97		PASS
	9		2452	36.04		PASS

Test Graphs



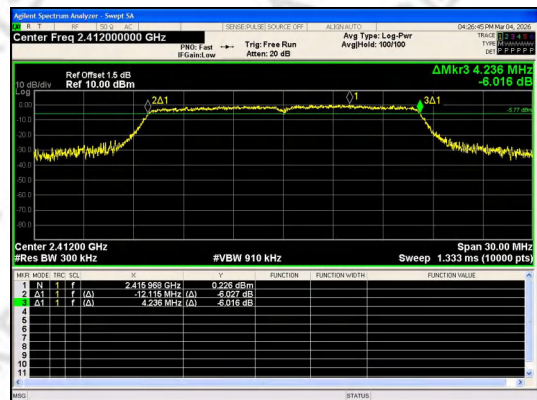
IEEE 802.11b_Channel 1_20MHz_Antenna 0



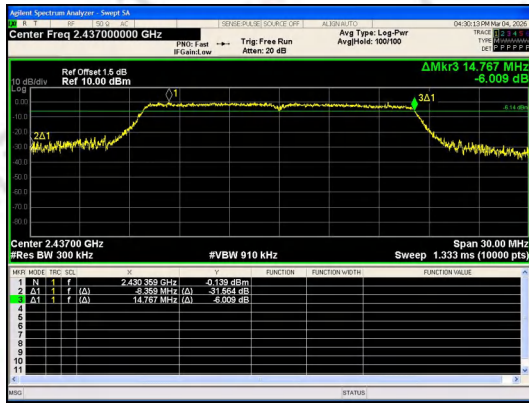
IEEE 802.11b_Channel 6_20MHz_Antenna 0



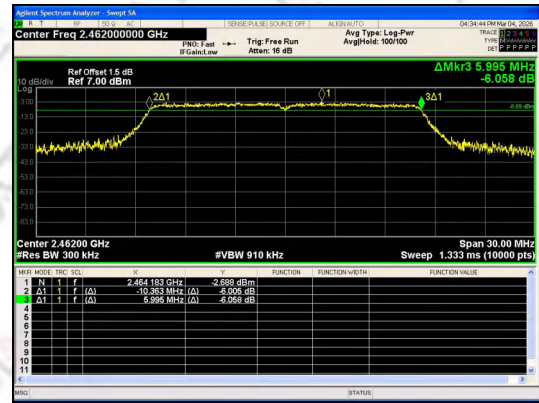
IEEE 802.11b_Channel 11_20MHz_Antenna 0



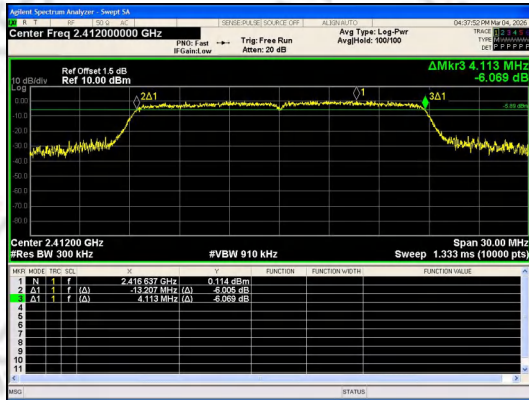
IEEE 802.11g_Channel 1_20MHz_Antenna 0



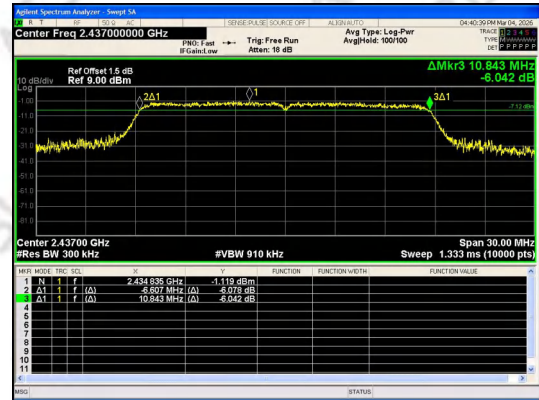
IEEE 802.11g_Channel 6_20MHz_Antenna 0



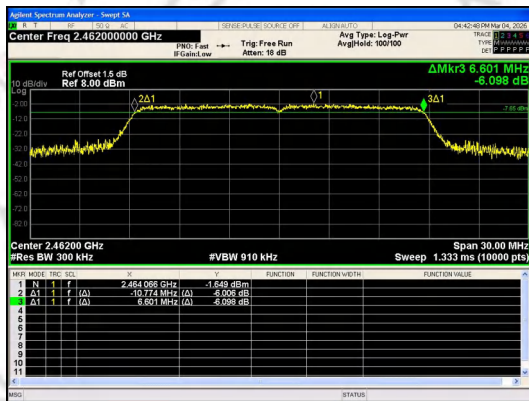
IEEE 802.11g_Channel 11_20MHz_Antenna 0



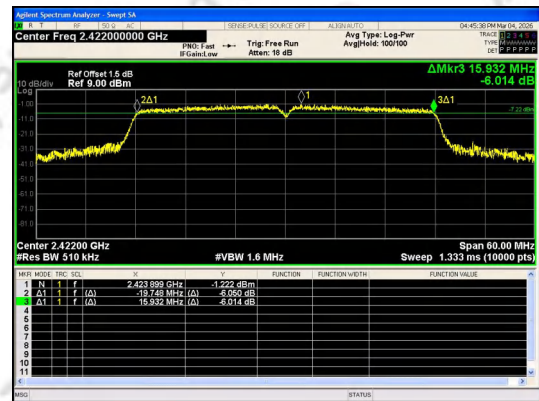
IEEE 802.11n_Channel 1_20MHz_Antenna 0



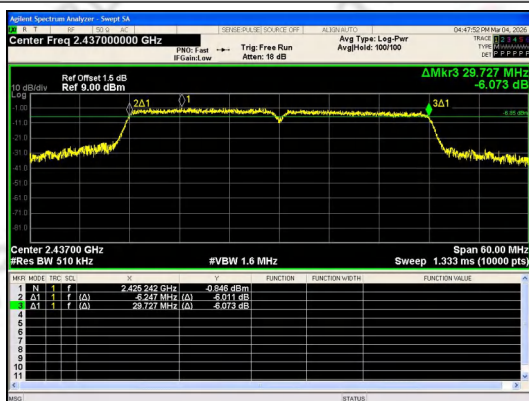
IEEE 802.11n_Channel 6_20MHz_Antenna 0



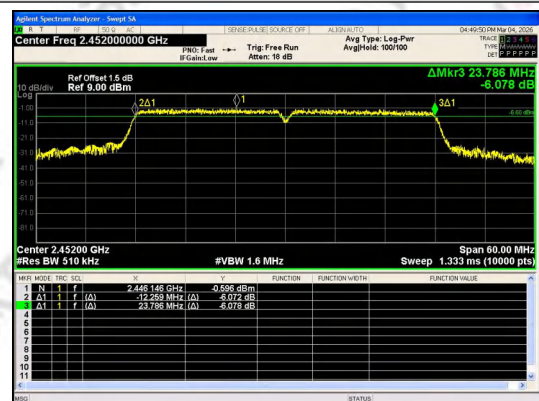
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



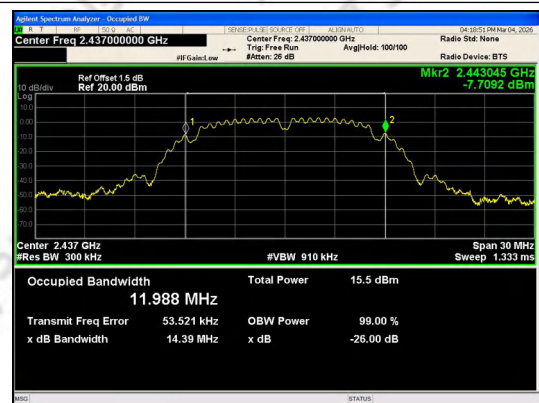
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.066
	6		2437	11.988
	11		2462	12.041
IEEE 802.11g	1		2412	16.520
	6		2437	16.613
	11		2462	16.589
IEEE 802.11n_20	1		2412	17.535
	6		2437	17.590
	11		2462	17.550
IEEE 802.11n_40	3		2422	35.951
	6		2437	36.175
	9		2452	36.176

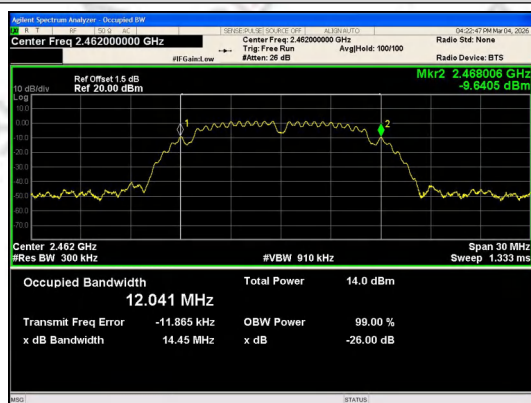
Test Graphs



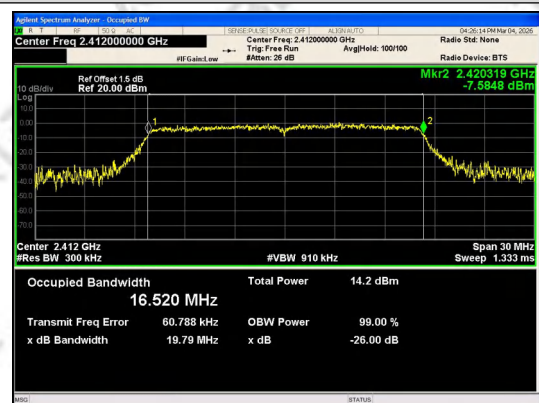
IEEE 802.11b_Channel 1_20MHz_Antenna 0



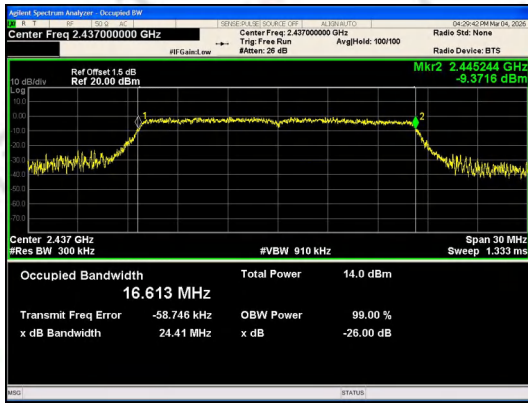
IEEE 802.11b_Channel 6_20MHz_Antenna 0



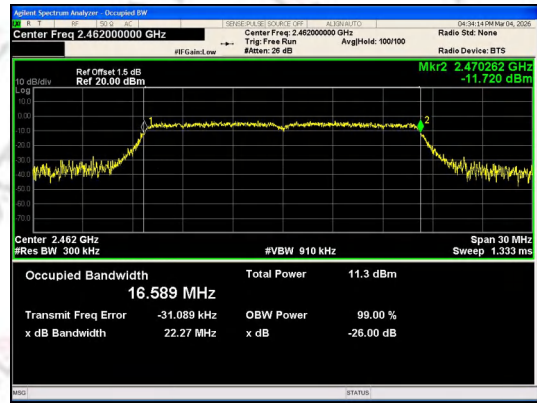
IEEE 802.11b_Channel 11_20MHz_Antenna 0



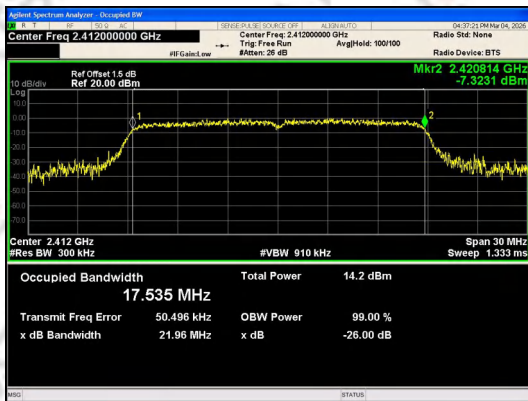
IEEE 802.11g_Channel 1_20MHz_Antenna 0



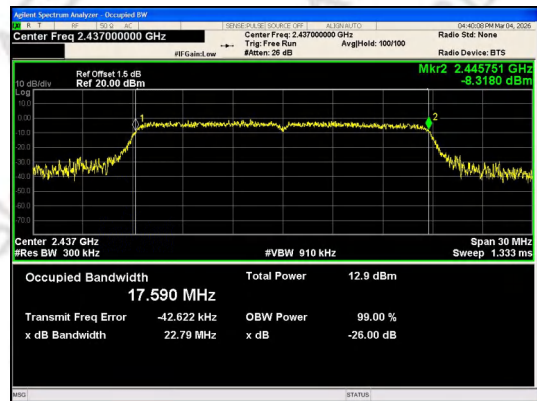
IEEE 802.11g_Channel 6_20MHz_Antenna 0



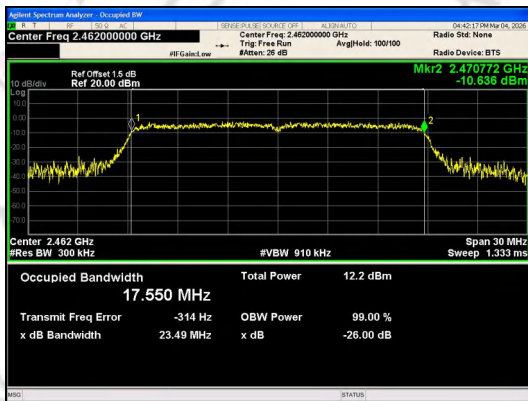
IEEE 802.11g_Channel 11_20MHz_Antenna 0



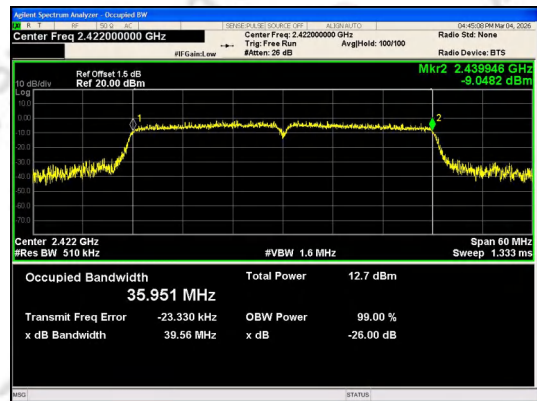
IEEE 802.11n_Channel 1_20MHz_Antenna 0



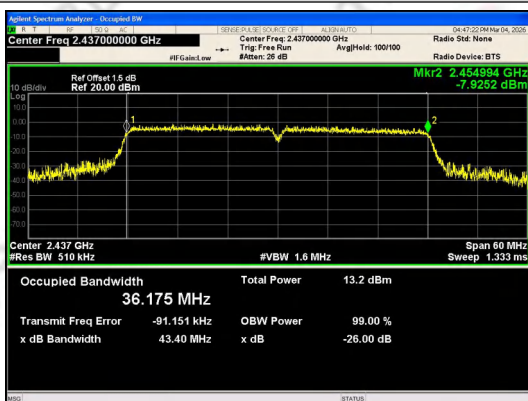
IEEE 802.11n_Channel 6_20MHz_Antenna 0



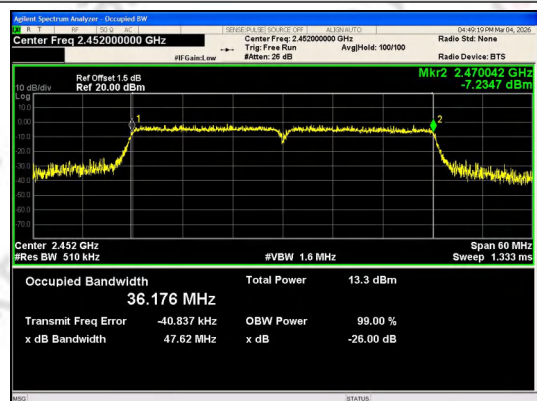
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



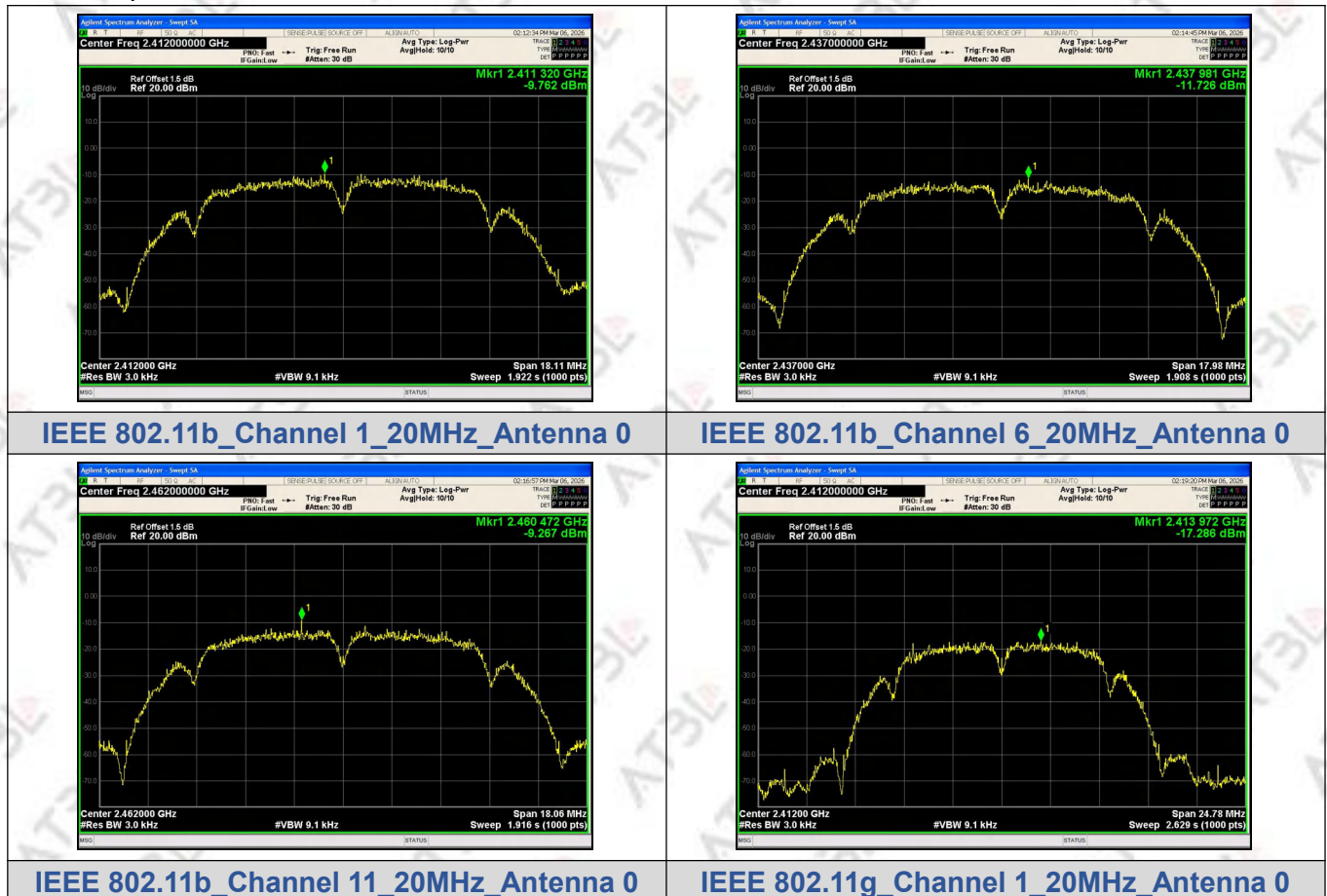
IEEE 802.11n_Channel 9_40MHz_Antenna 0

C4.Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-9.760	≤8	PASS
	6	-11.730		PASS
	11	-9.270		PASS
IEEE 802.11g	1	-17.290		PASS
	6	-13.860		PASS
	11	-16.180		PASS
IEEE 802.11n_20	1	-17.780		PASS
	6	-17.510		PASS
	11	-17.580		PASS
IEEE 802.11n_40	3	-20.570		PASS
	6	-20.840		PASS
	9	-21.250		PASS

Test Graphs

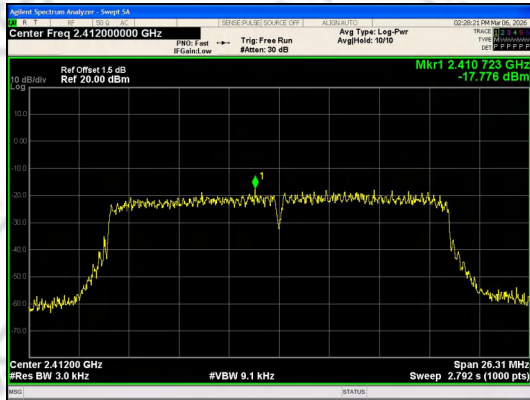




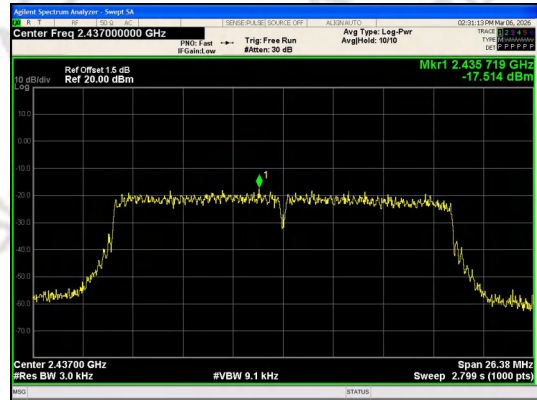
IEEE 802.11g_Channel 6_20MHz_Antenna 0



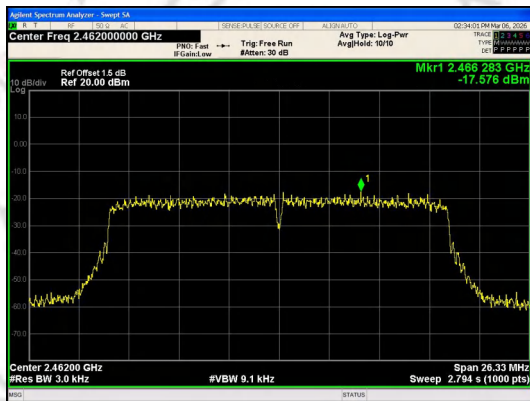
IEEE 802.11g_Channel 11_20MHz_Antenna 0



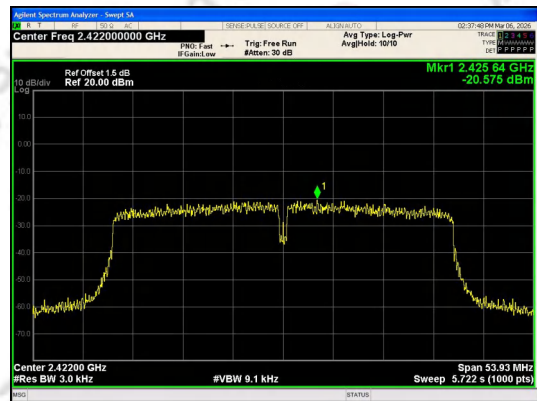
IEEE 802.11n_Channel 1_20MHz_Antenna 0



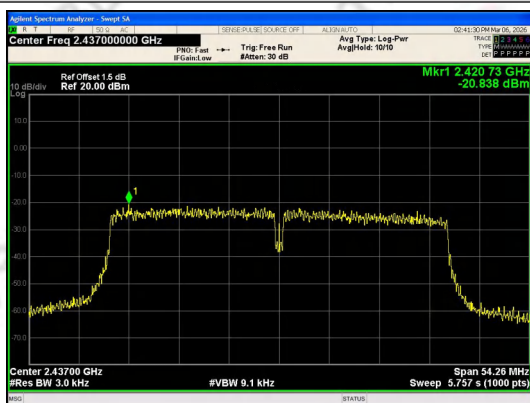
IEEE 802.11n_Channel 6_20MHz_Antenna 0



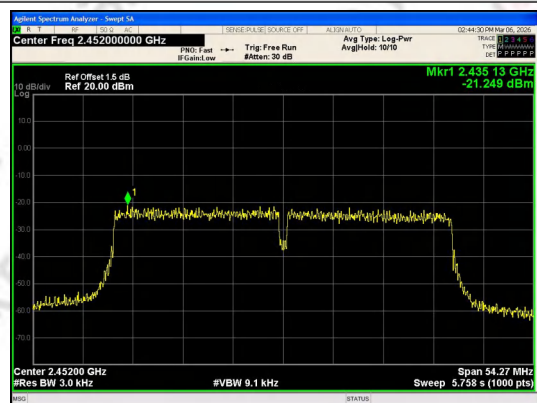
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

C5.Conducted Spurious & Band Edge Emission

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Cable Loss (dB)	Limit (dBm)	Over Limit (dB)	Result	
IEEE 802.11b	1	0	2397.23	-47.285	N/A	-16.1	-31.185	PASS	
			2400.00	-49.021	N/A	-16.1	-32.921	PASS	
	6		24731.6	-40.431	1.36	-16.1	-24.331	PASS	
			24879.5	-41.166	1.36	-18.25	-22.916	PASS	
			11	2483.50	-52.828	N/A	-18.1	-34.728	PASS
				24849.6	-41.623	1.36	-18.1	-23.523	PASS
IEEE 802.11g	1		2396.97	-50.271	N/A	-22.53	-27.741	PASS	
			2400.00	-54.086	N/A	-22.53	-31.556	PASS	
	6		24910.7	-41.452	1.36	-22.53	-18.922	PASS	
			24845.8	-40.748	1.36	-22.55	-18.198	PASS	
			11	2483.50	-53.664	N/A	-22.28	-31.384	PASS
				24882.0	-40.69	1.36	-22.28	-18.41	PASS
IEEE 802.11n_20	1		2400.00	-36.646	N/A	-23.22	-13.426	PASS	
			24973.8	-41.593	1.36	-23.22	-18.373	PASS	
	6		24829.6	-40.895	1.36	-23.49	-17.405	PASS	
			11	2483.50	-47.075	N/A	-23.11	-23.965	PASS
				25000.0	-41.411	1.36	-23.11	-18.301	PASS
			IEEE 802.11n_40	3	2400.00	-37.684	N/A	-25.61	-12.074
24867.0	-41.037				1.36	-25.61	-15.427	PASS	
6	24955.7			-40.364	1.36	-26.41	-13.954	PASS	
	9			2483.50	-45.633	N/A	-26.5	-19.133	PASS
24860.2				-41.421	1.36	-26.5	-14.921	PASS	

Note:

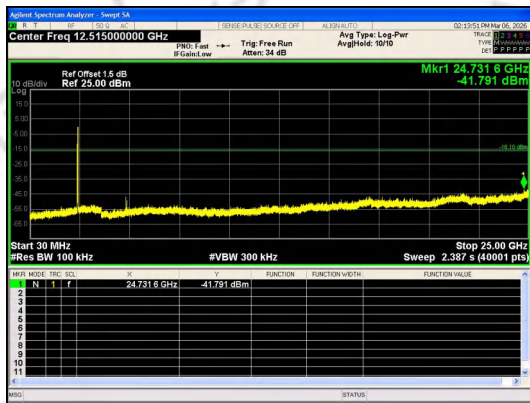
1.input compensation coefficient (dB)= Cable Loss (dB)

2.30MHz~25GHz OOB Emission Level final result cable loss was added. maximum cable Loss is 2.86 dB (When the frequency reaches 25GHz, add an additional compensation of 1.36dB for Cable Loss.)

Test Graphs



IEEE 802.11b_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz

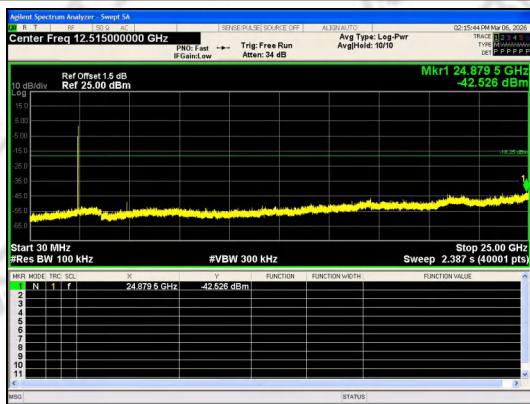
IEEE 802.11b_Channel 1_20MHz_Antenna 0

IEEE 802.11b_Channel 1_20MHz_Antenna 0



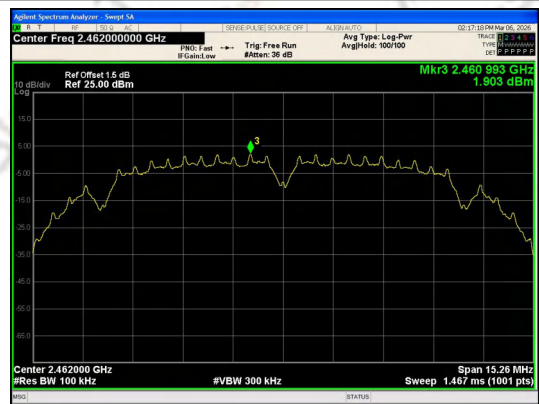
In-Band Reference Level

IEEE 802.11b_Channel 6_20MHz_Antenna 0



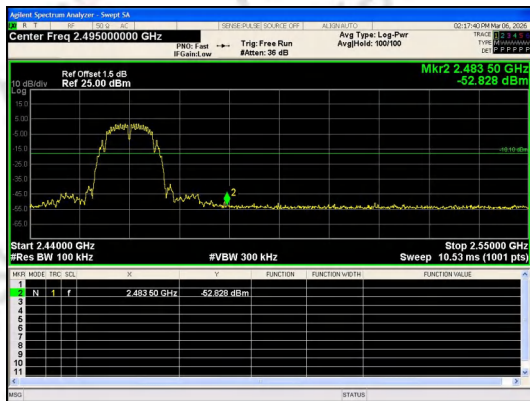
30.0 MHz - 25000.0 MHz

IEEE 802.11b_Channel 6_20MHz_Antenna 0



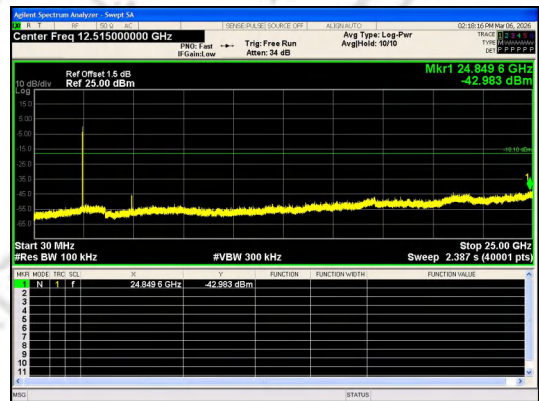
In-Band Reference Level

IEEE 802.11b_Channel 11_20MHz_Antenna 0



Out Of Band Emission

IEEE 802.11b_Channel 11_20MHz_Antenna 0

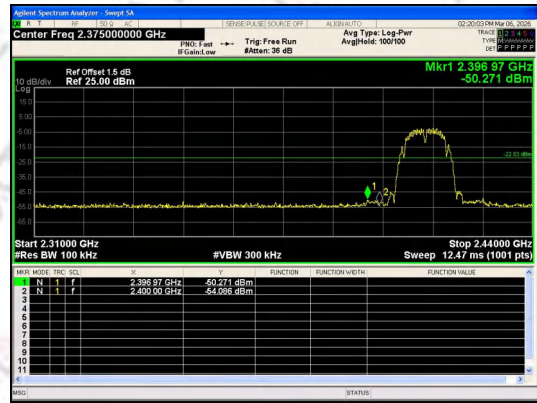


30.0 MHz - 25000.0 MHz

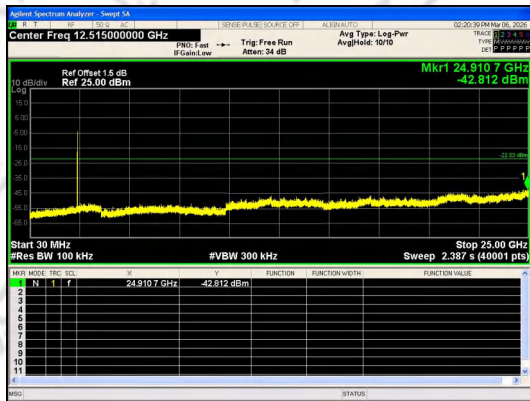
IEEE 802.11b_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



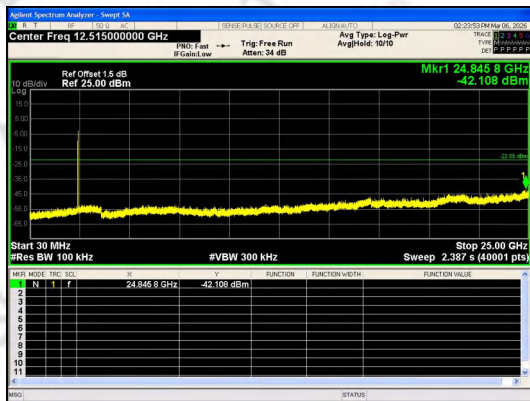
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



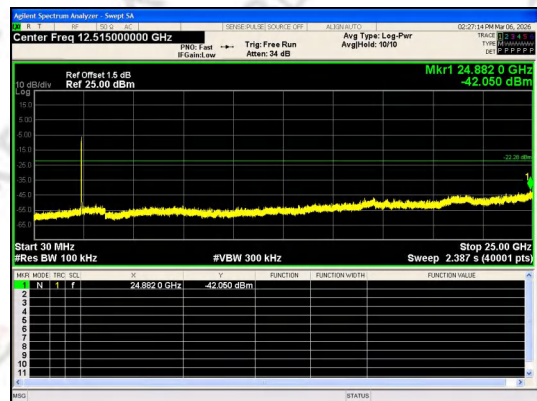
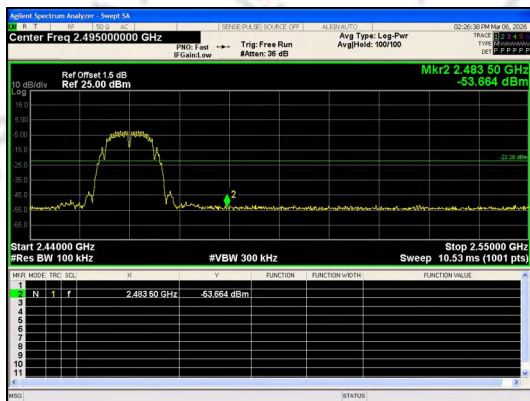
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0

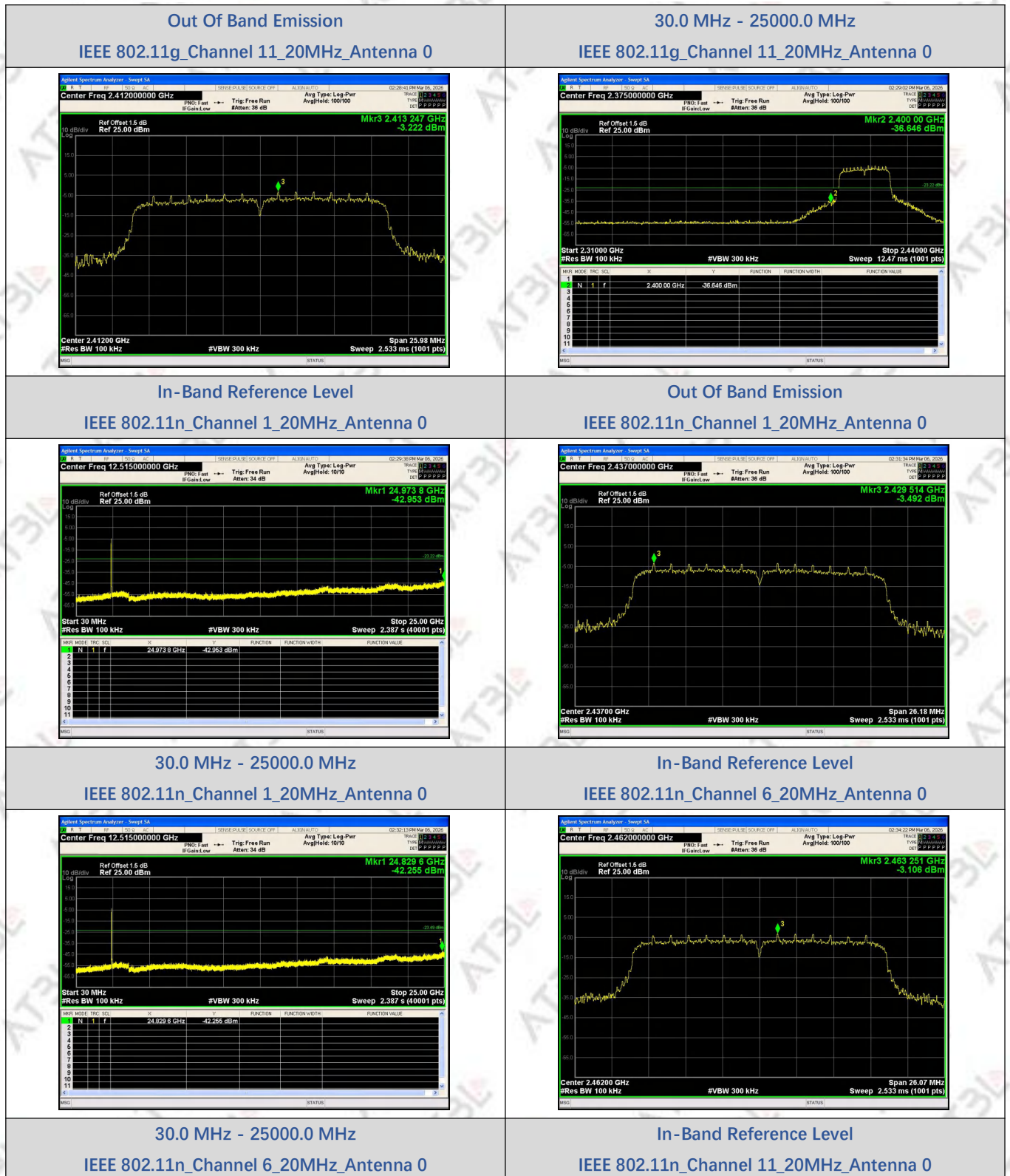


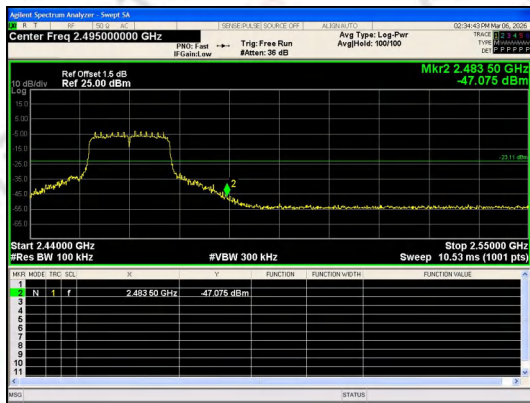
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



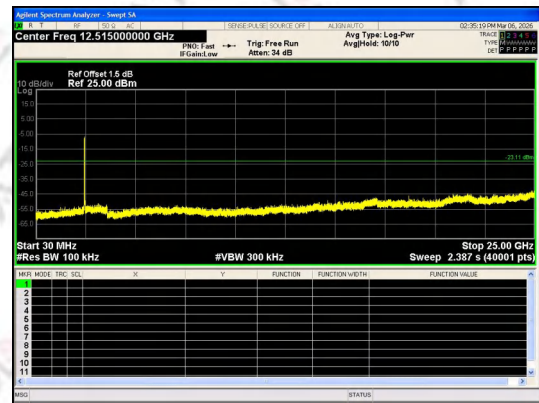
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



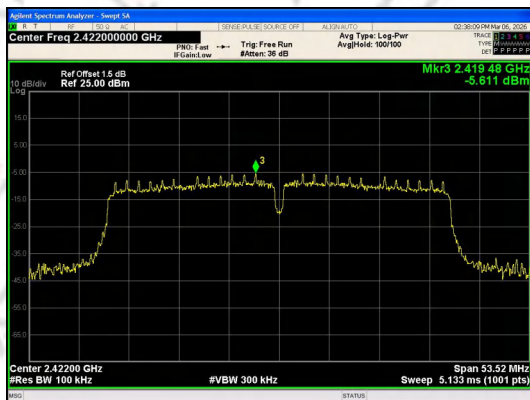




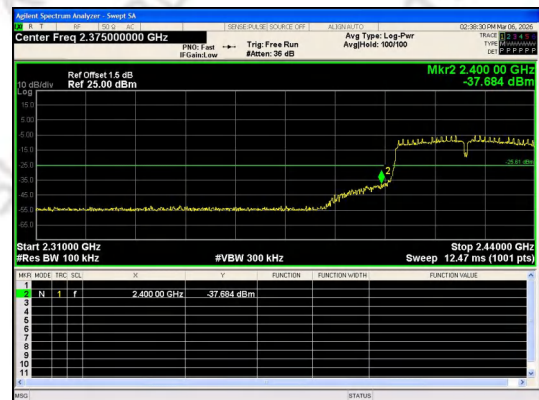
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



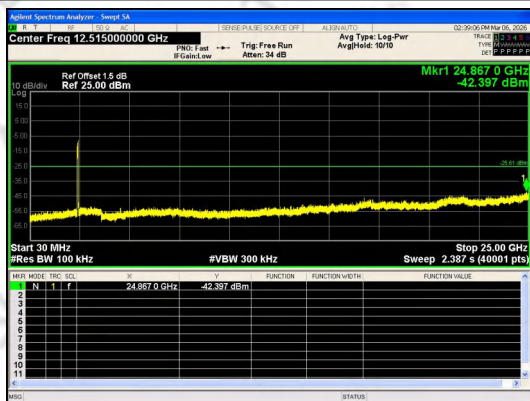
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0

