

Appendix Report

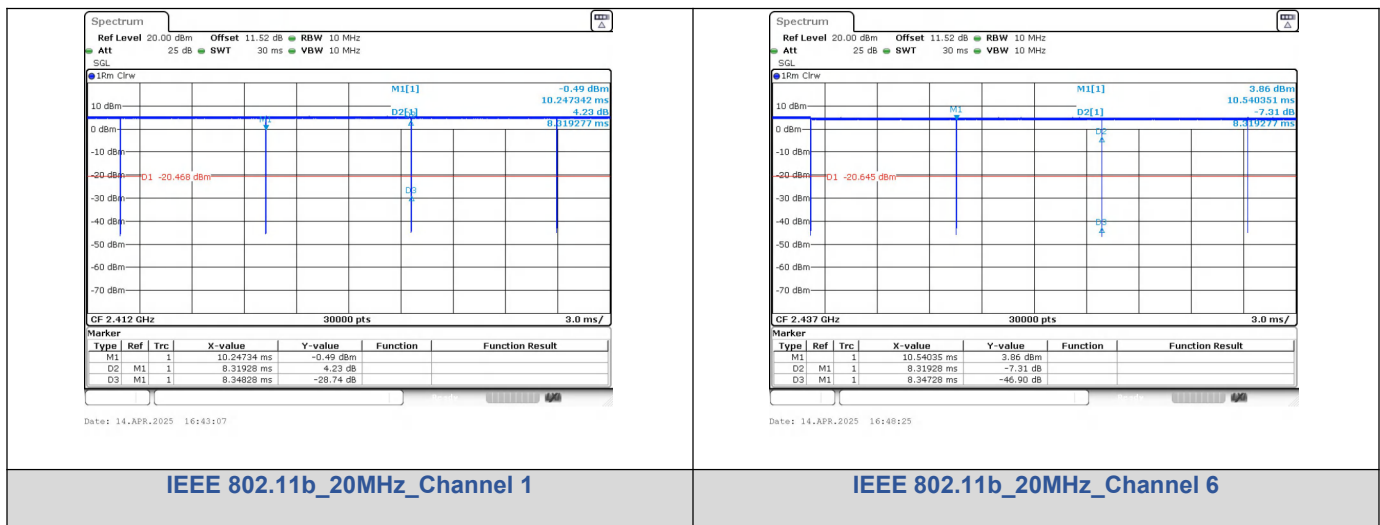
Project No.:	CISR250411101
Test Engineer:	James Wang
Supervised by:	Rory Huang

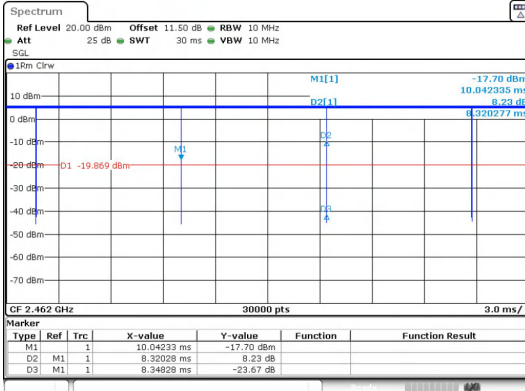
Duty Cycle

Test Result

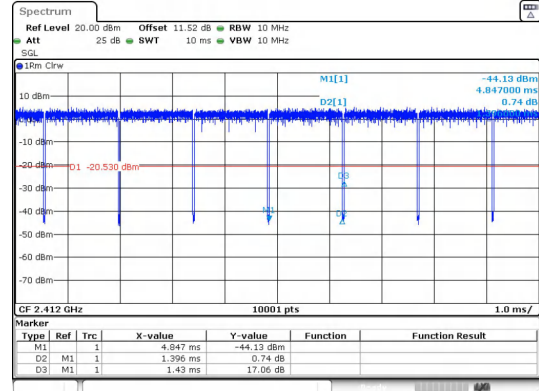
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.319	8.348	99.65	0.9965	0.0152	0.1202
		6		8.319	8.347	99.66	0.9966	0.0148	0.1202
		11		8.320	8.348	99.66	0.9966	0.0148	0.1202
IEEE 802.11g		1		1.396	1.430	97.62	0.9762	0.1046	0.7163
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	1		1.293	1.327	97.44	0.9744	0.1126	0.7734
		6		1.293	1.327	97.44	0.9744	0.1126	0.7734
		11		1.293	1.327	97.44	0.9744	0.1126	0.7734

Test Graphs





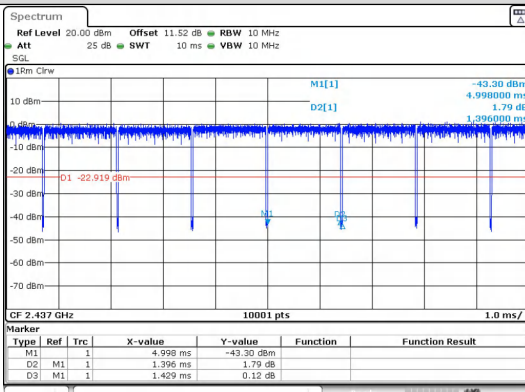
Date: 14.APR.2025 16:52:17



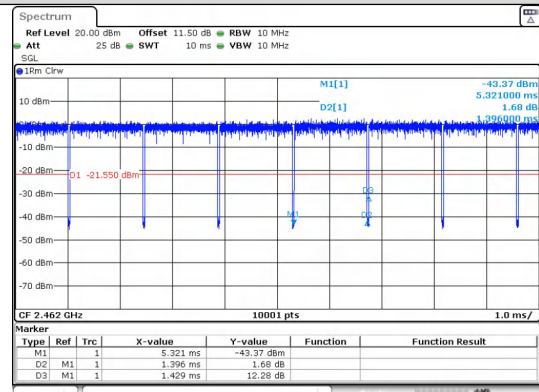
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IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



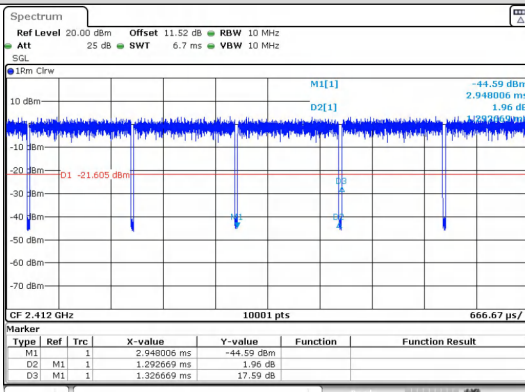
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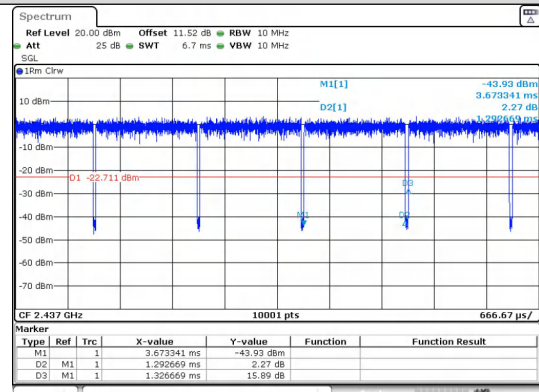
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IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



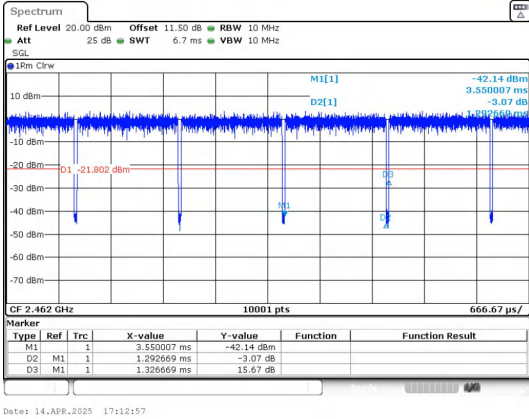
Date: 14.APR.2025 17:07:23



Date: 14.APR.2025 17:10:17

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6



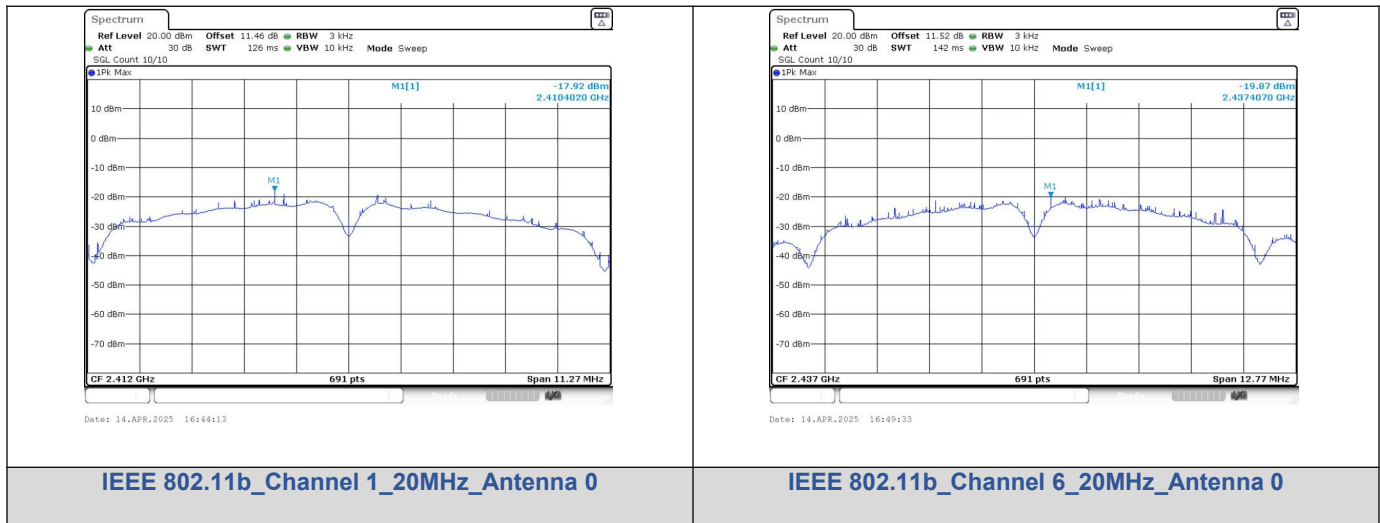
IEEE 802.11n_20MHz_Channel 11

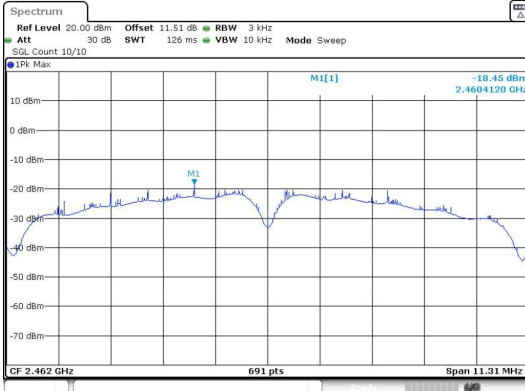
Power Spectral Density

Test Result

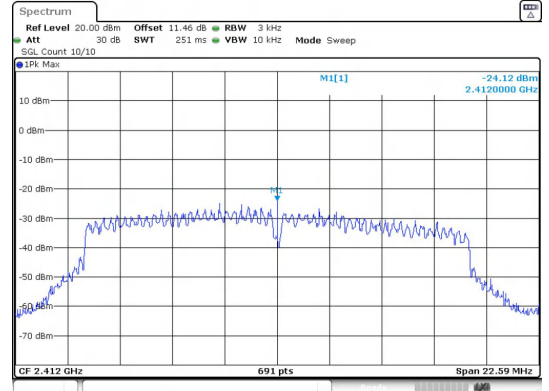
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-17.920	≤8	PASS
	6	-19.870		PASS
	11	-18.450		PASS
IEEE 802.11g	1	-24.120		PASS
	6	-27.610		PASS
	11	-25.310		PASS
IEEE 802.11n_20	1	-22.180		PASS
	6	-26.120		PASS
	11	-25.300		PASS

Test Graphs

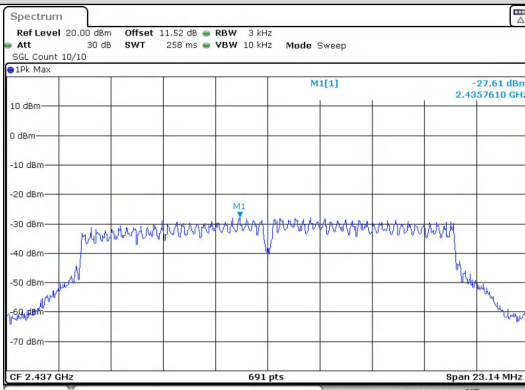




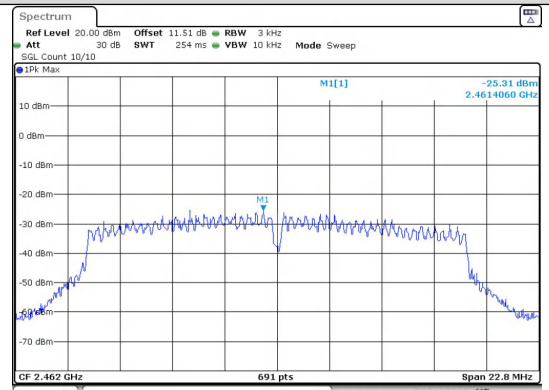
IEEE 802.11b_Channel 11_20MHz_Antenna 0



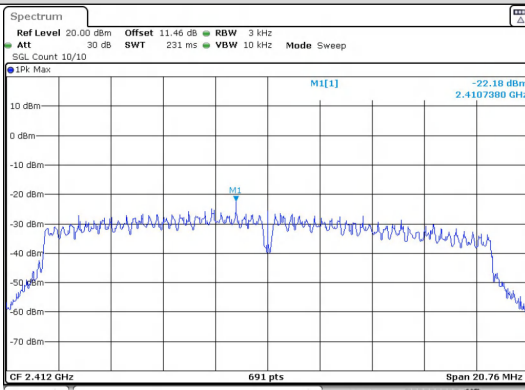
IEEE 802.11g_Channel 1_20MHz_Antenna 0



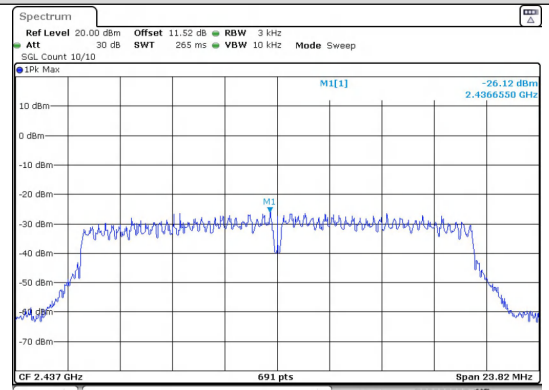
IEEE 802.11g_Channel 6_20MHz_Antenna 0



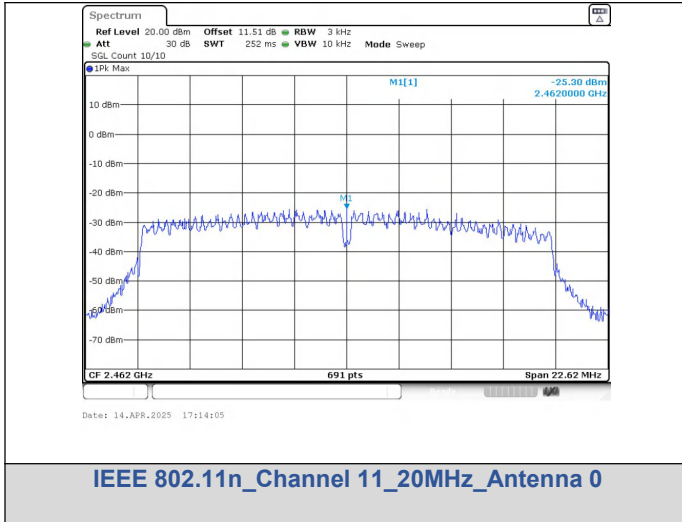
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



Conducted Output Power

Test Result

Conducted Output Power

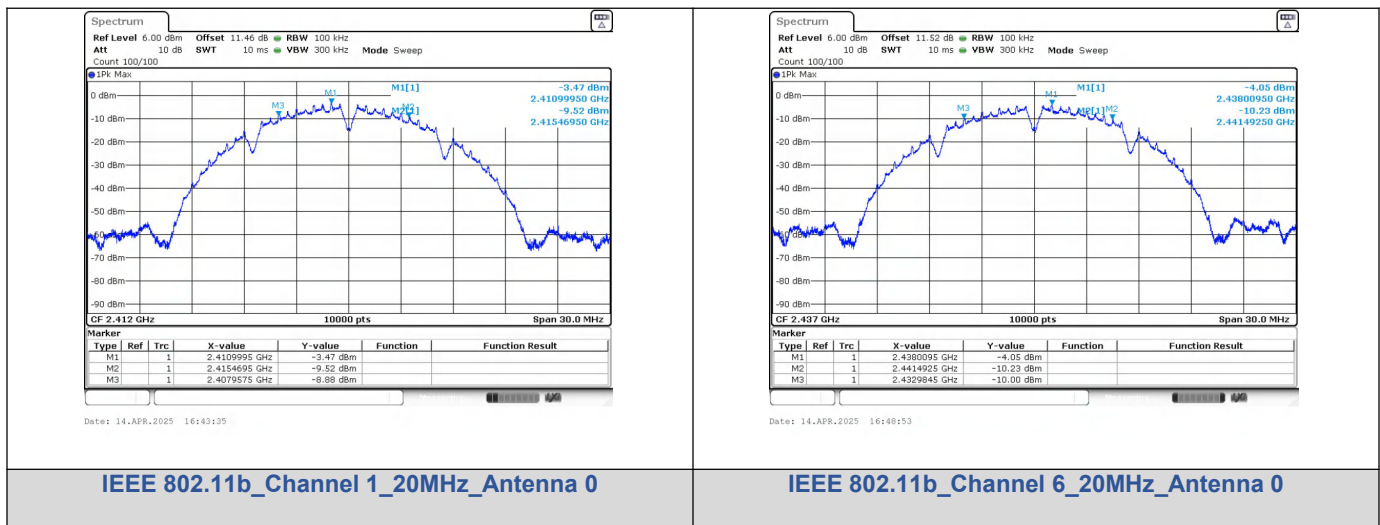
Mode	Channel	Ant. 0 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.31	N/A	≤30	PASS
	6	8.24	N/A	≤30	PASS
	11	8.54	N/A	≤30	PASS
IEEE 802.11g	1	7.82	N/A	≤30	PASS
	6	7.63	N/A	≤30	PASS
	11	8.23	N/A	≤30	PASS
IEEE 802.11n_20	1	8.10	N/A	≤30	PASS
	6	8.52	N/A	≤30	PASS
	11	9.48	N/A	≤30	PASS

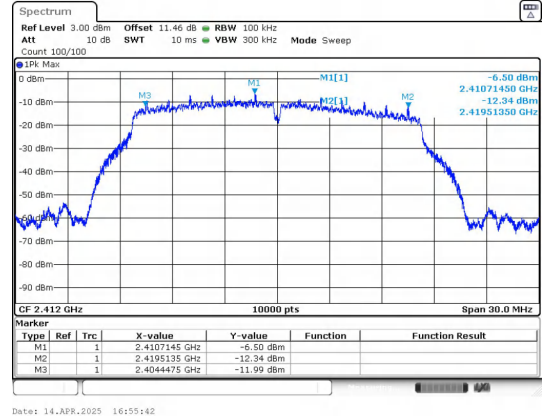
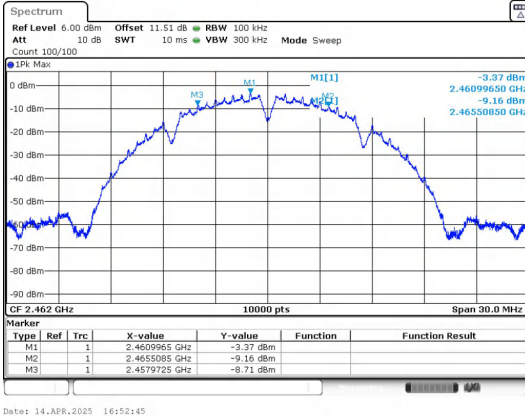
6dB Bandwidth

Test Result

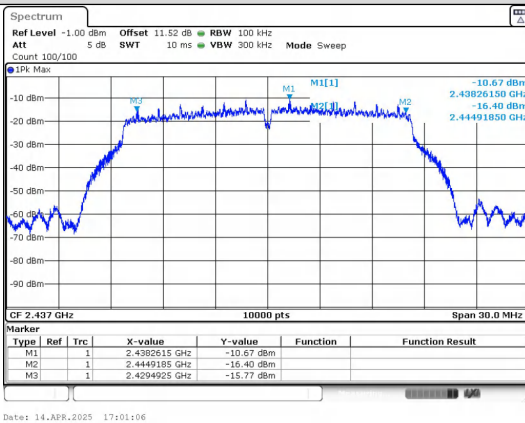
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.510	≥0.5	PASS
	6		2437	8.510		PASS
	11		2462	7.540		PASS
IEEE 802.11g	1		2412	15.06		PASS
	6		2437	15.43		PASS
	11		2462	15.20		PASS
IEEE 802.11n_20	1		2412	13.84		PASS
	6		2437	15.88		PASS
	11		2462	15.08		PASS

Test Graphs

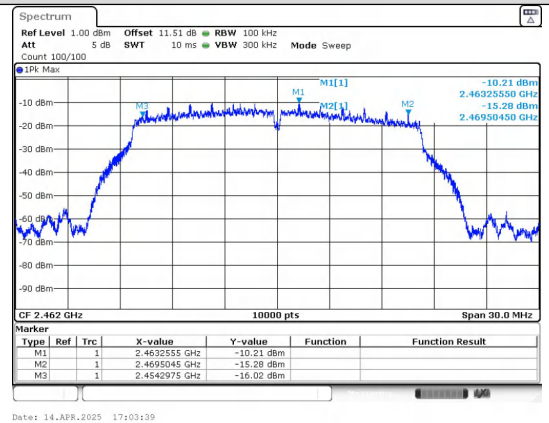




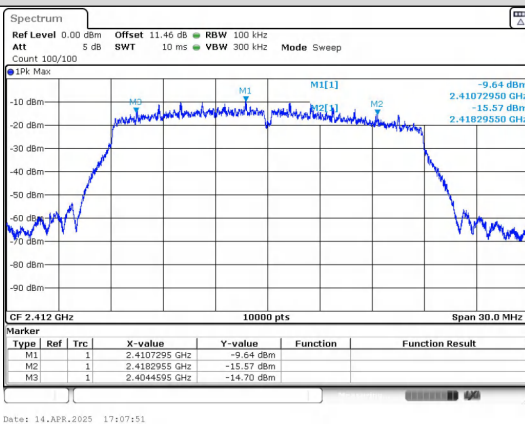
IEEE 802.11b_Channel 11_20MHz_Antenna 0



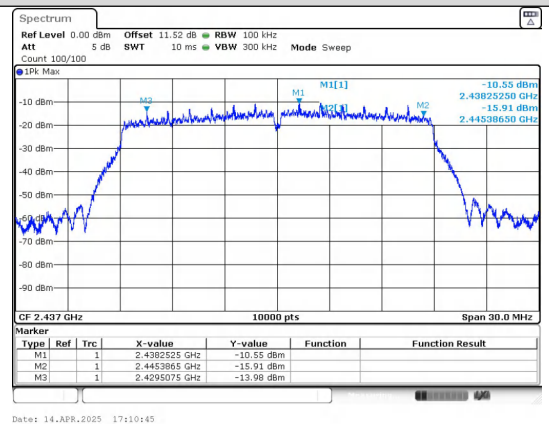
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

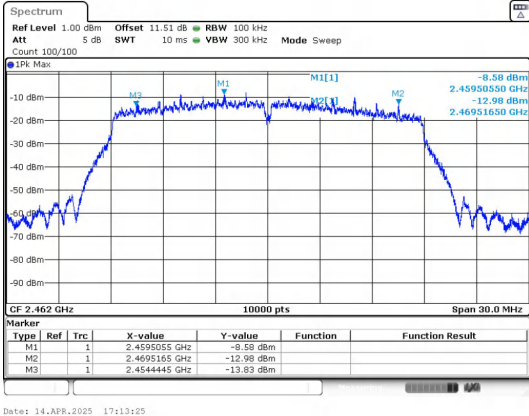


IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



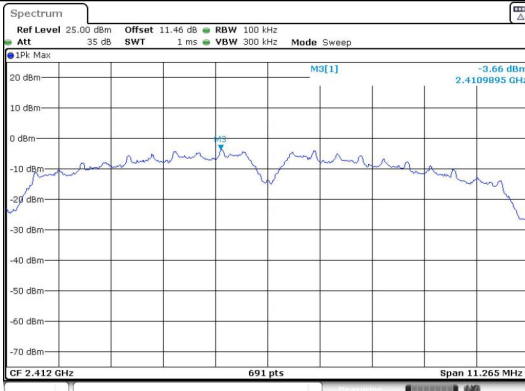
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

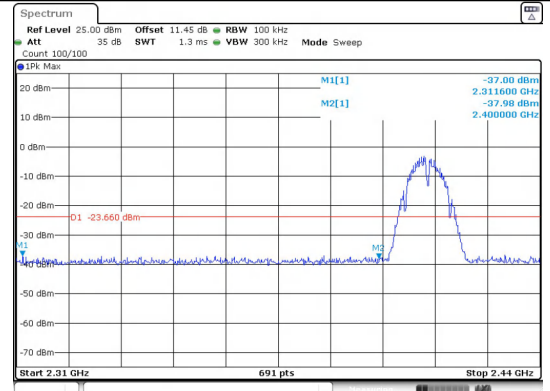
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	1765.80	-40.648	-23.66	-16.988	PASS
			2311.60	-37.004	-23.66	-13.344	PASS
			2400.00	-37.980	-23.66	-14.320	PASS
	6		22056.5	-43.277	-24.02	-19.257	PASS
	11		2483.50	-38.070	-23.69	-14.380	PASS
			22118.9	-42.697	-23.69	-19.007	PASS
IEEE 802.11g	1		2321.57	-36.467	-30.56	-5.907	PASS
			2400.00	-37.250	-30.56	-6.690	PASS
			6141.40	-43.023	-30.56	-12.463	PASS
	6		6896.33	-43.066	-30.9	-12.166	PASS
	11		2483.50	-38.500	-29.72	-8.780	PASS
			6922.14	-42.952	-29.72	-13.232	PASS
IEEE 802.11n_20	1		2325.33	-36.679	-29.38	-7.299	PASS
			2400.00	-38.410	-29.38	-9.030	PASS
			6930.50	-42.940	-29.38	-13.560	PASS
	6		22017.3	-43.645	-28.98	-14.665	PASS
	11		2483.50	-38.570	-29.5	-9.070	PASS
			6975.41	-43.219	-29.5	-13.719	PASS

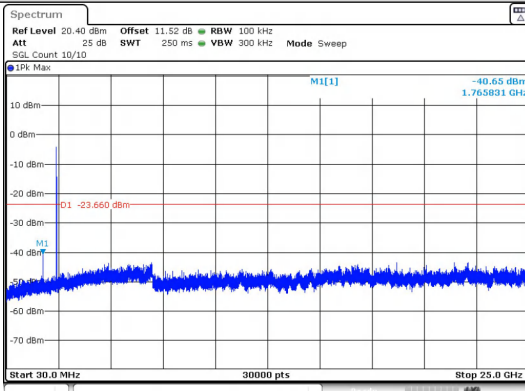
Test Graphs



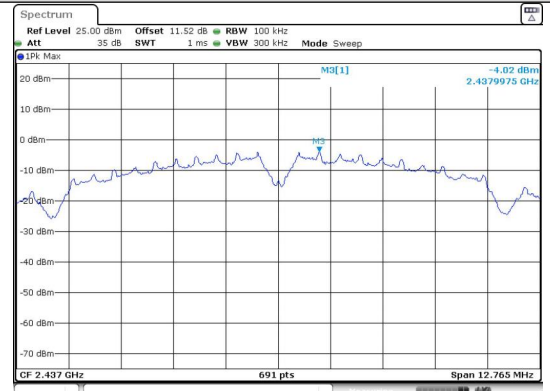
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



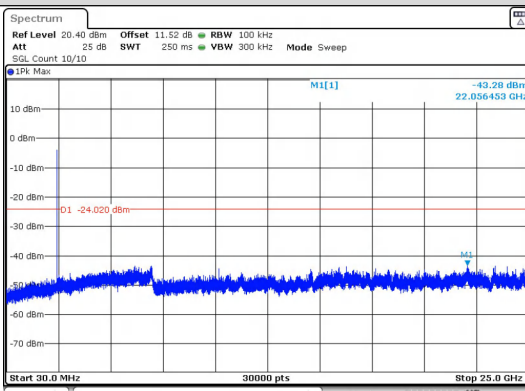
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



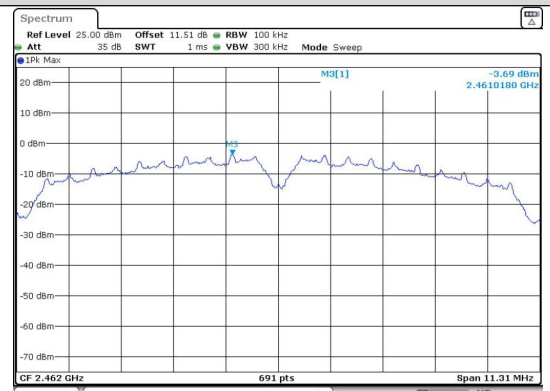
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



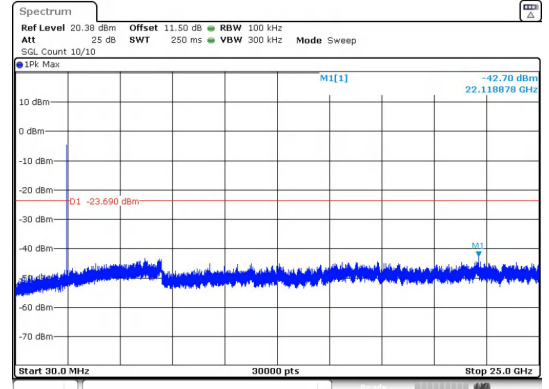
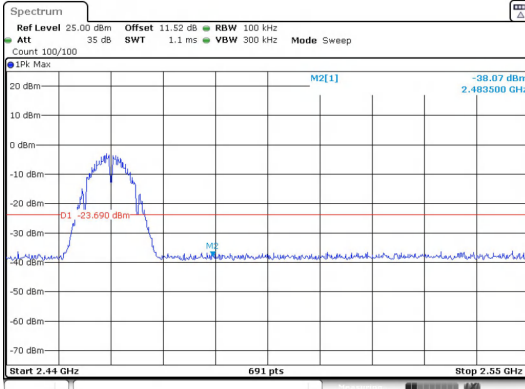
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0

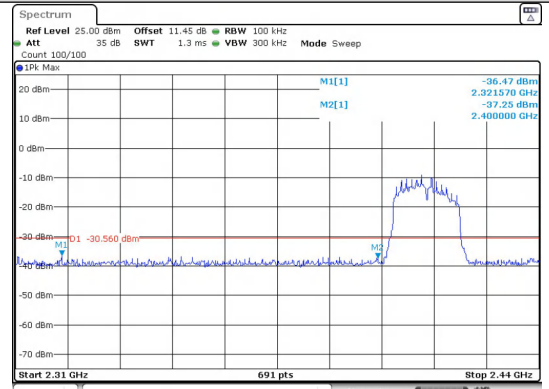
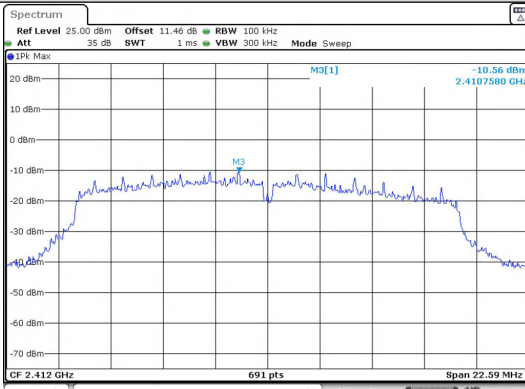


In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



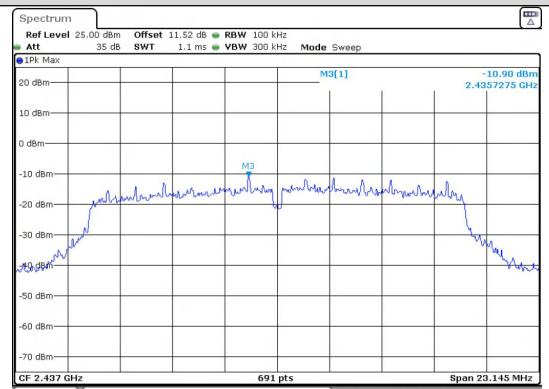
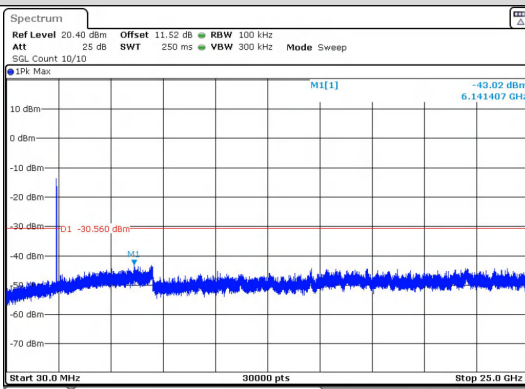
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



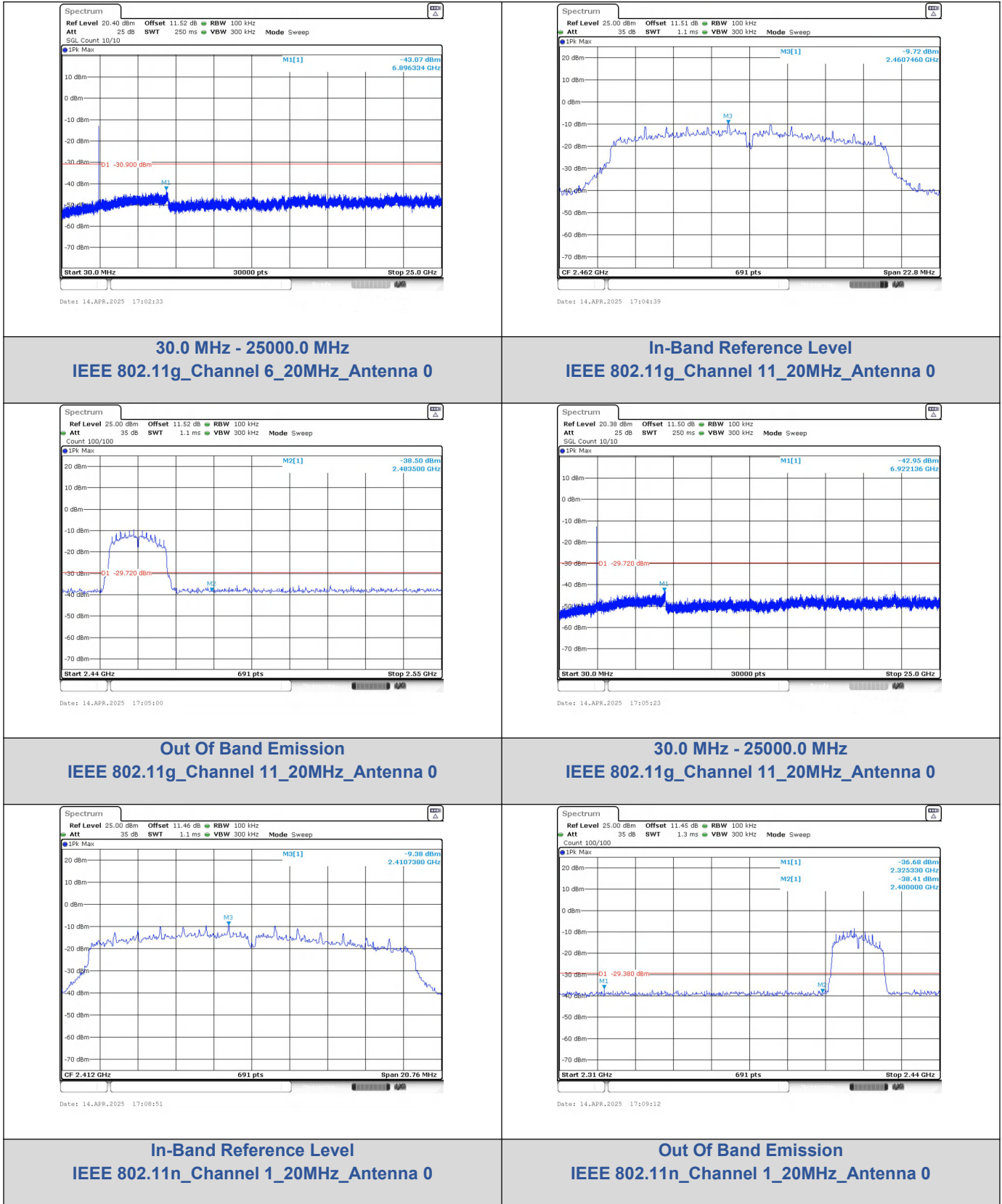
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

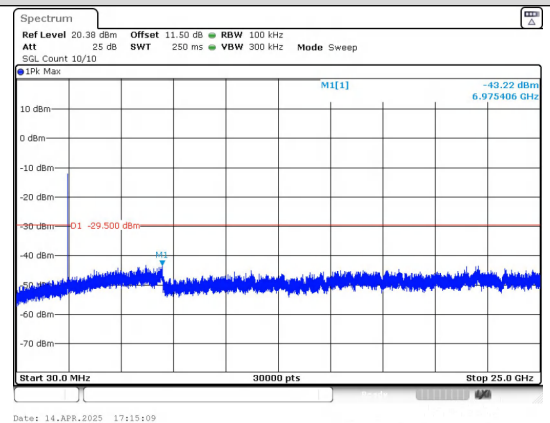
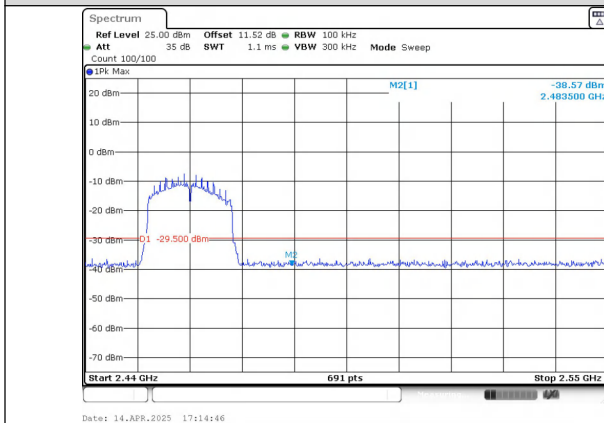
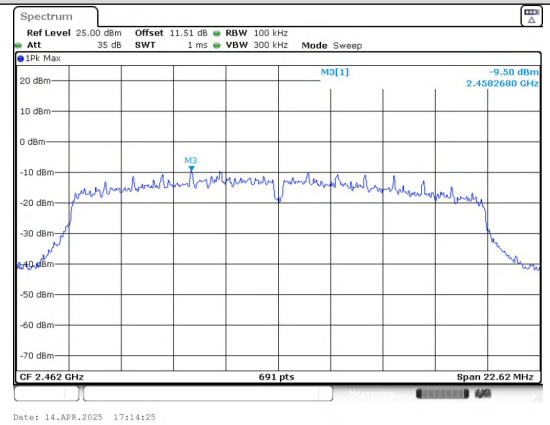
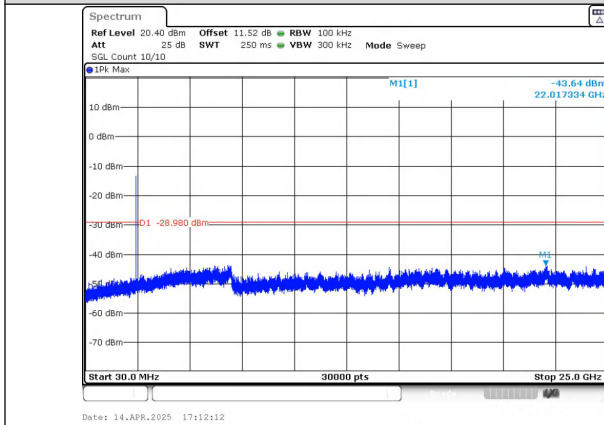
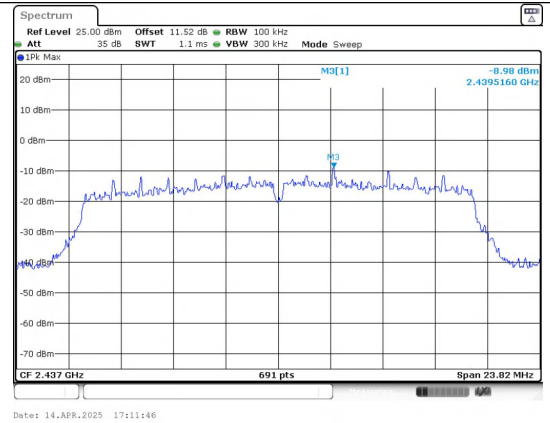
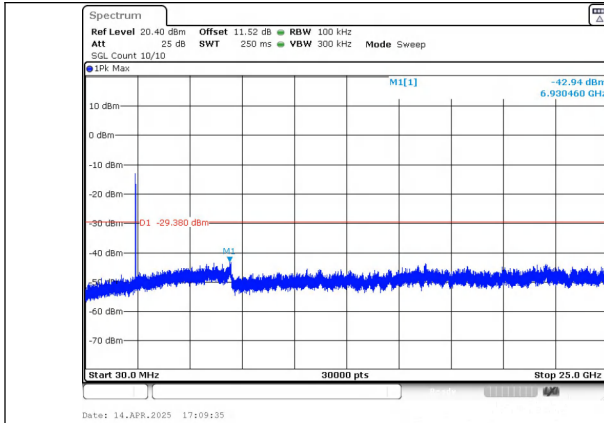
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



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





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