

Appendix Report

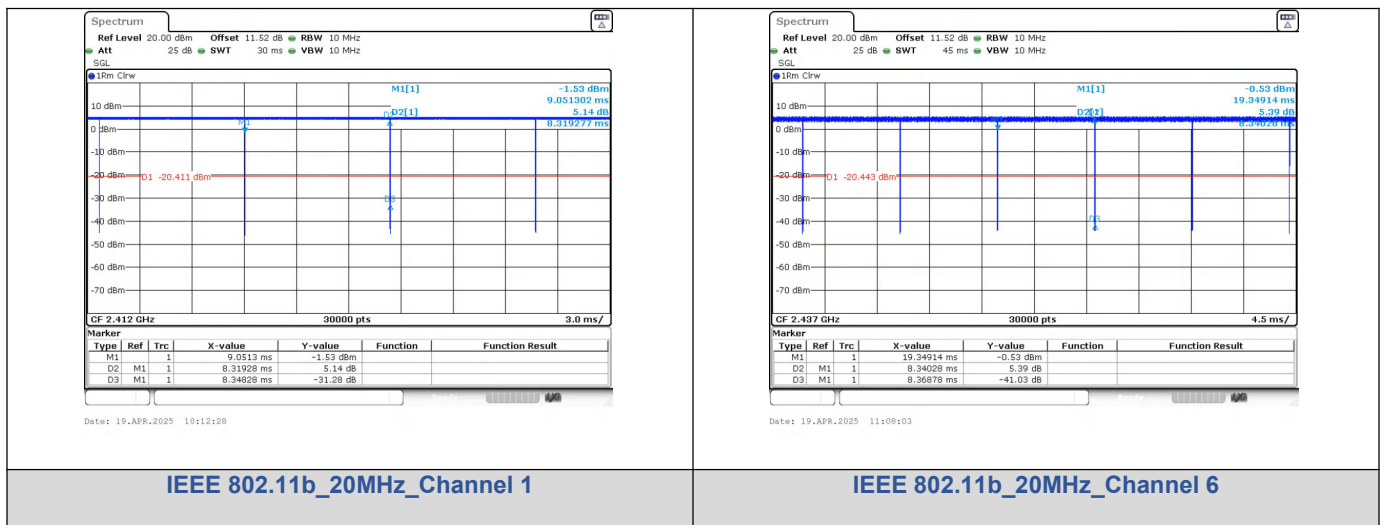
Project No.:	CISR250416163
Test Engineer:	James Wang
Supervised by:	Rory Huang

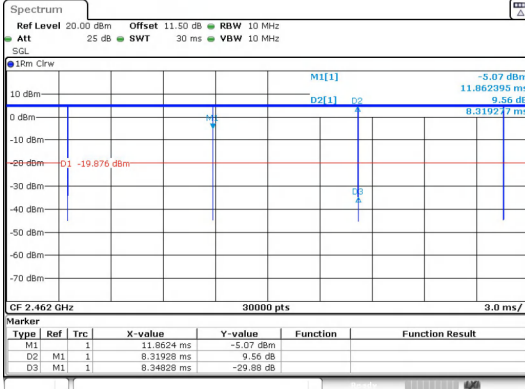
Duty Cycle

Test Result

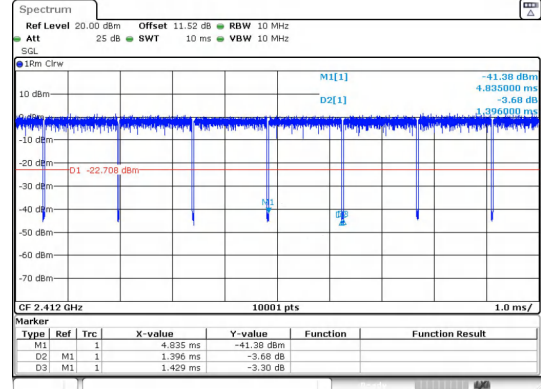
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.319	8.348	99.65	0.9965	0.0152	0.1202
		6		8.340	8.369	99.66	0.9966	0.0148	0.1199
		11		8.319	8.348	99.65	0.9965	0.0152	0.1202
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		8.400	8.417	99.80	0.9980	0.0087	0.1190
		11		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	1		1.304	1.337	97.53	0.9753	0.1086	0.7669
		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





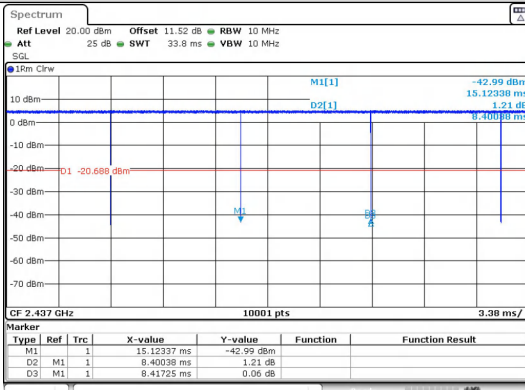
Date: 19.APR.2025 10:27:50



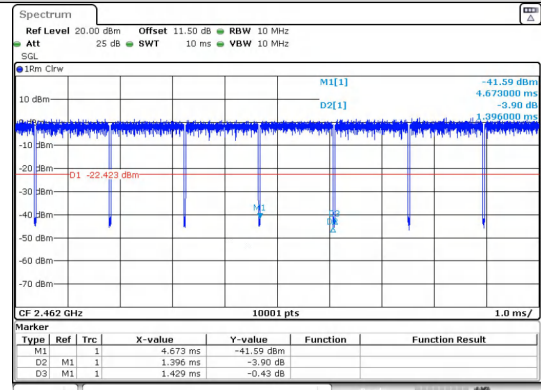
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IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



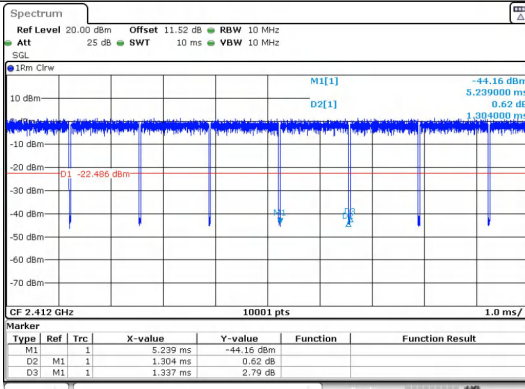
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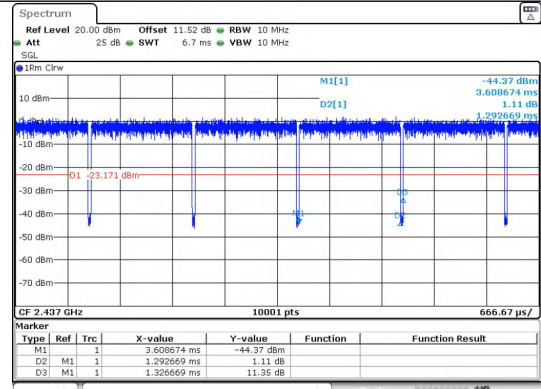
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IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



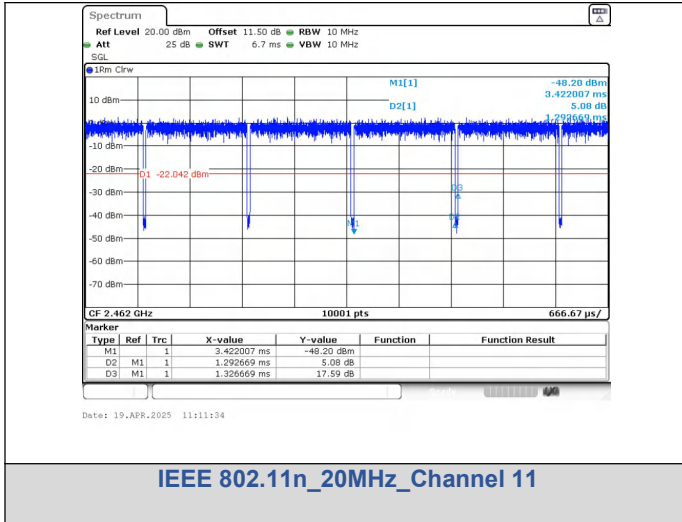
Date: 19.APR.2025 10:53:36



Date: 19.APR.2025 10:57:04

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6

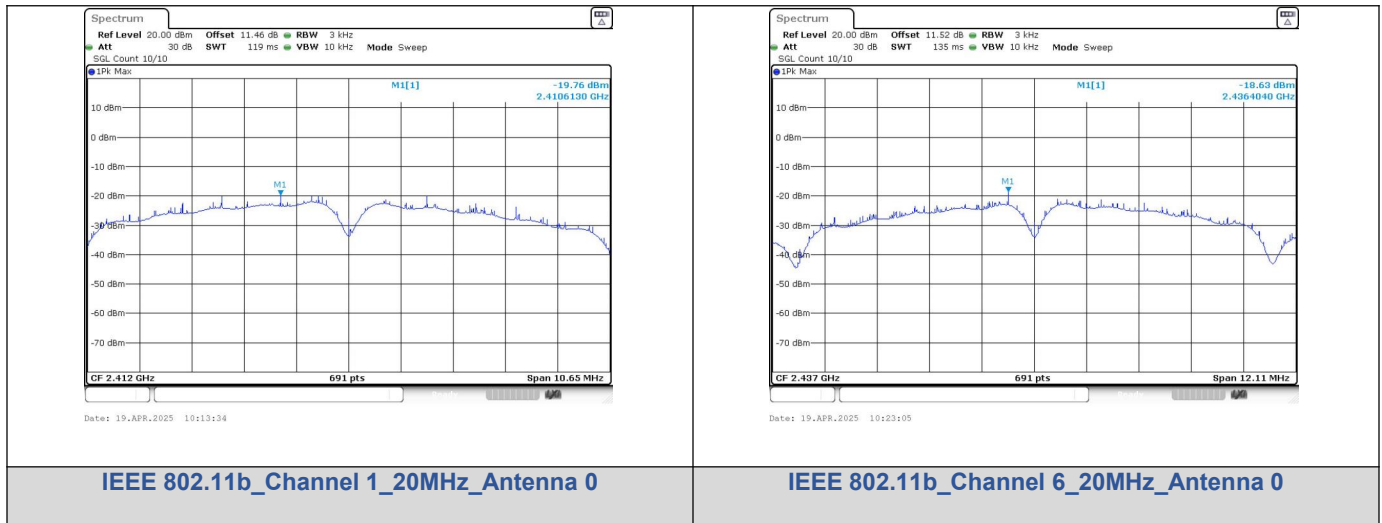


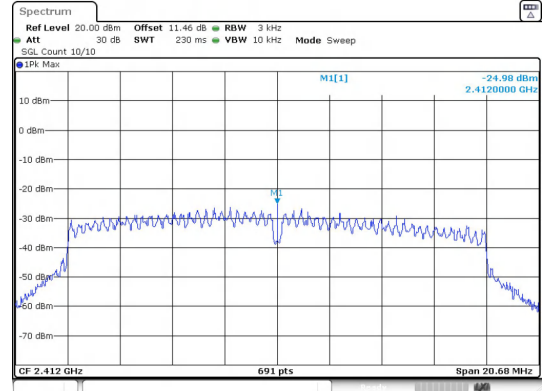
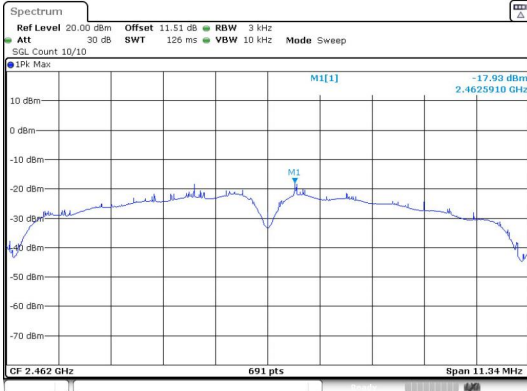
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-19.760	≤8	PASS
	6	-18.630		PASS
	11	-17.930		PASS
IEEE 802.11g	1	-24.980		PASS
	6	-26.830		PASS
	11	-24.770		PASS
IEEE 802.11n_20	1	-24.500		PASS
	6	-26.920		PASS
	11	-25.910		PASS

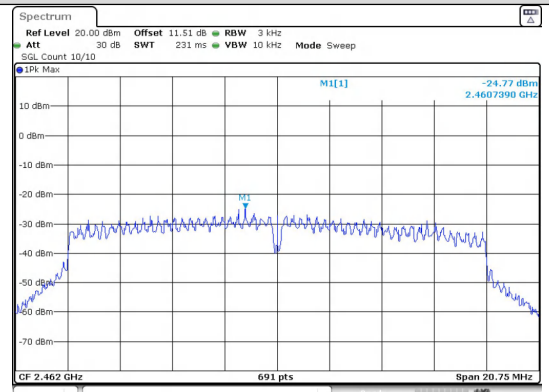
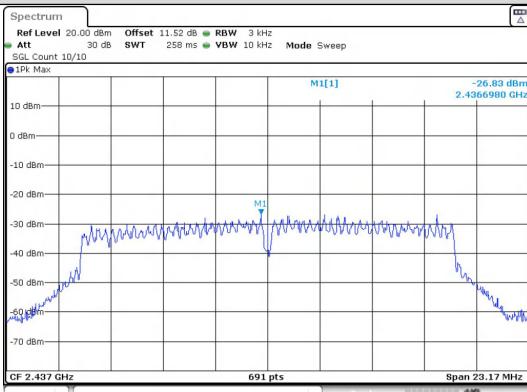
Test Graphs





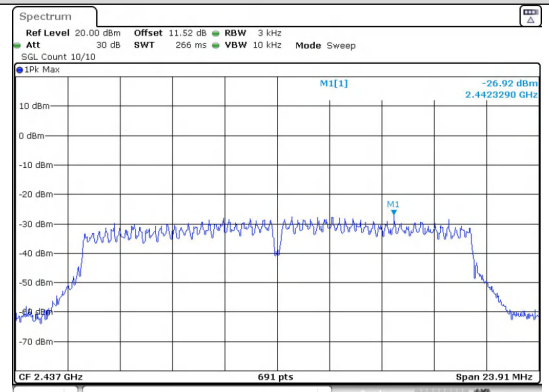
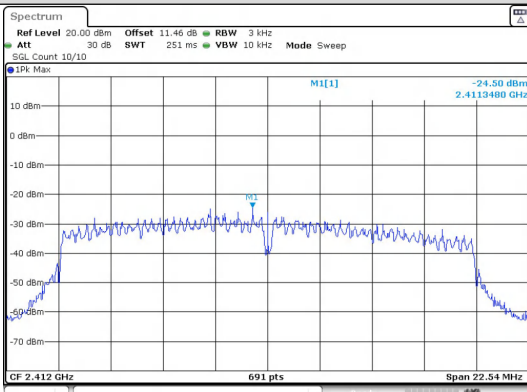
IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



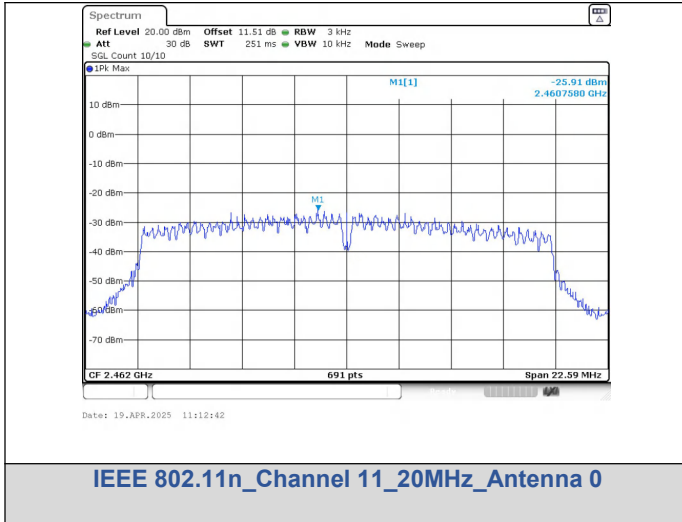
IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



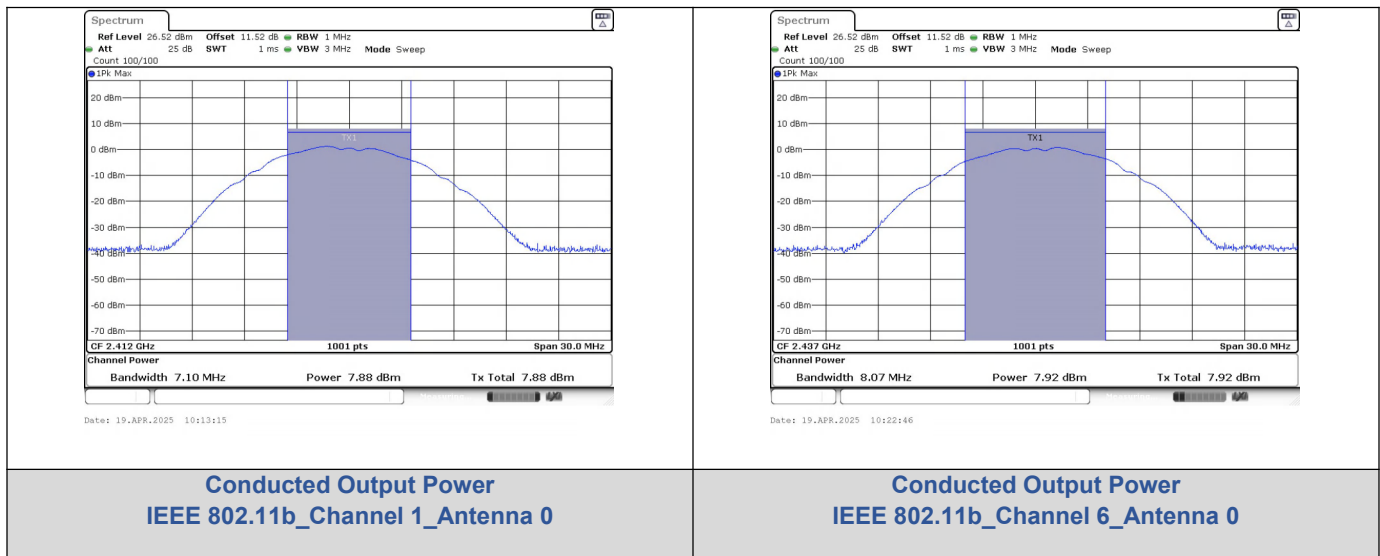
Conducted Output Power

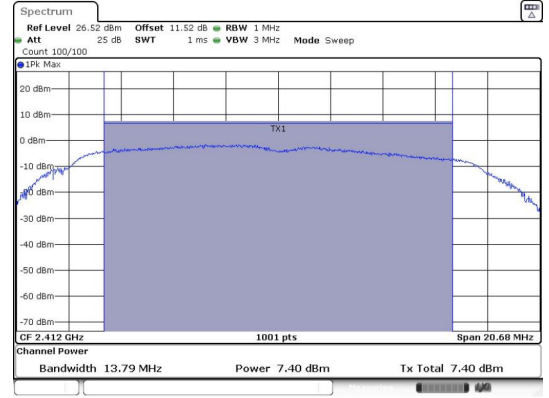
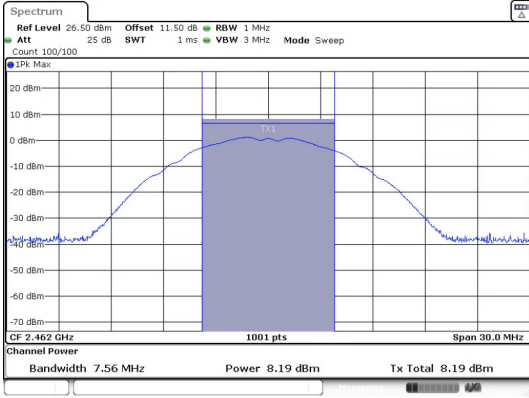
Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	7.88	N/A	≤30	PASS
	6	7.92	N/A	≤30	PASS
	11	8.19	N/A	≤30	PASS
IEEE 802.11g	1	7.40	N/A	≤30	PASS
	6	7.24	N/A	≤30	PASS
	11	7.73	N/A	≤30	PASS
IEEE 802.11n_20	1	7.47	N/A	≤30	PASS
	6	7.42	N/A	≤30	PASS
	11	8.27	N/A	≤30	PASS

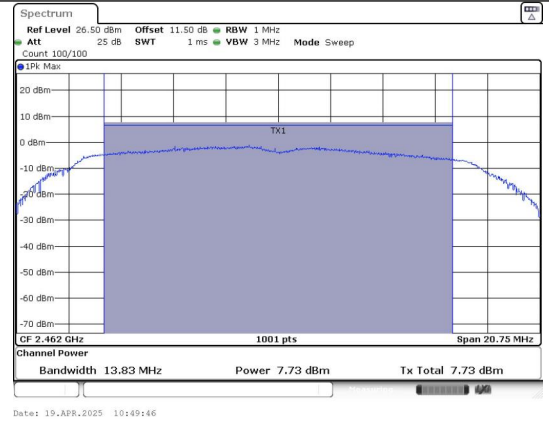
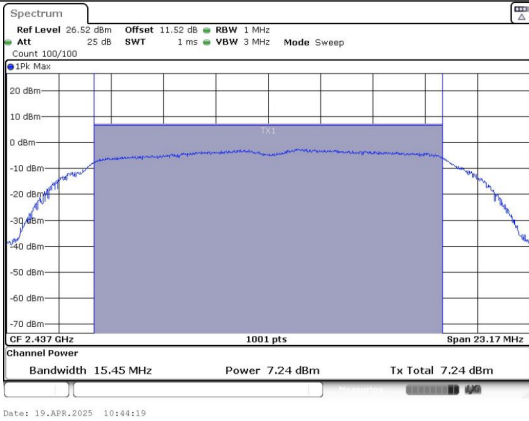
Test Graphs





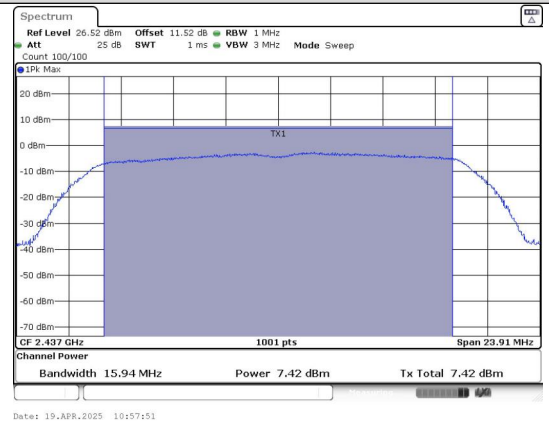
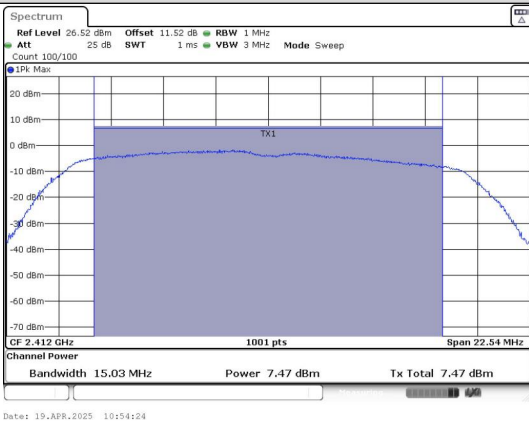
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 0**

**Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 0**



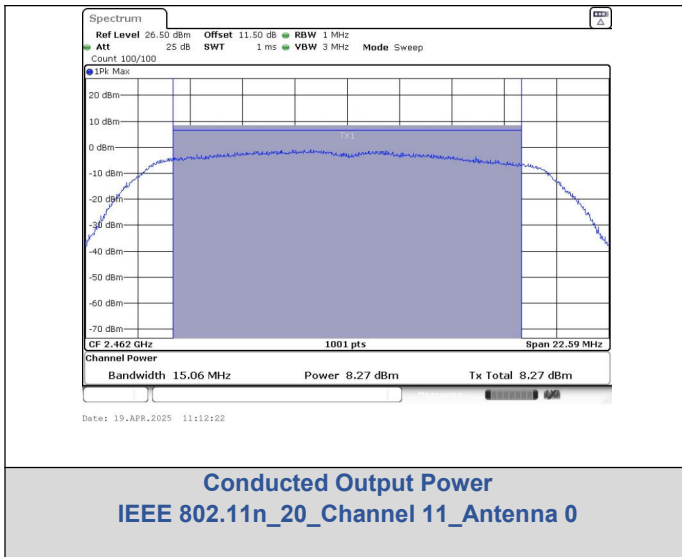
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**

**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 0**



**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0**

**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0**

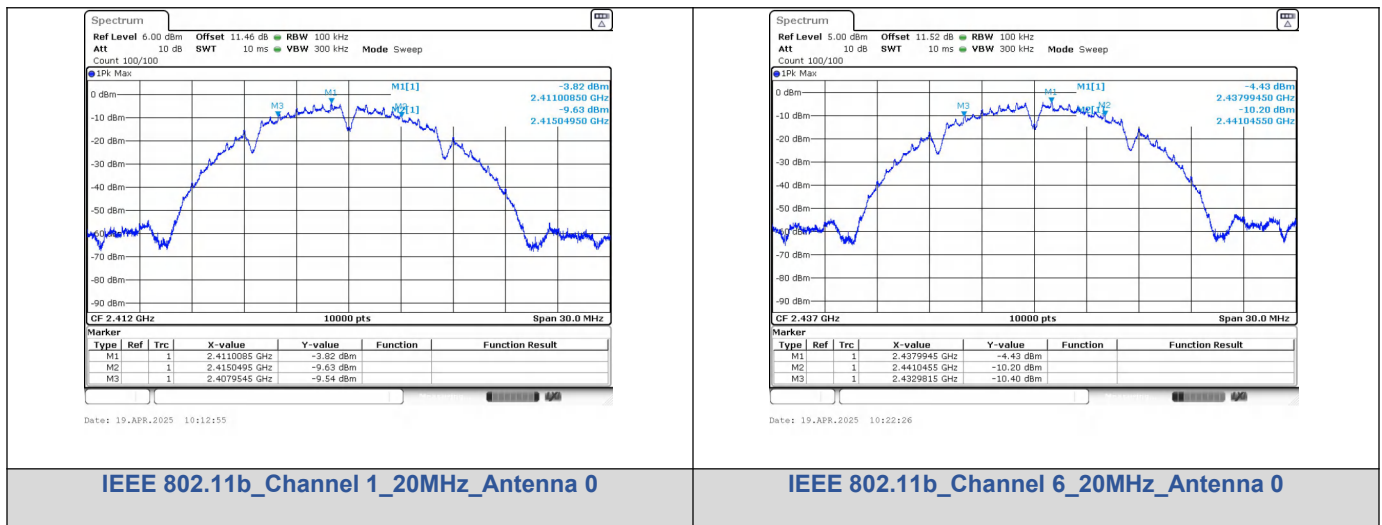


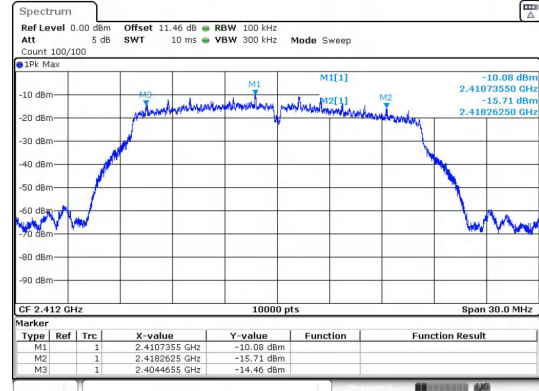
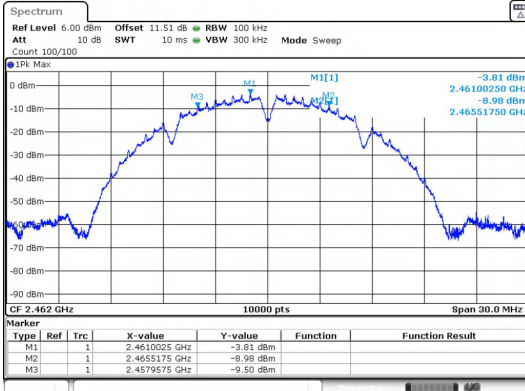
6dB Bandwidth

Test Result

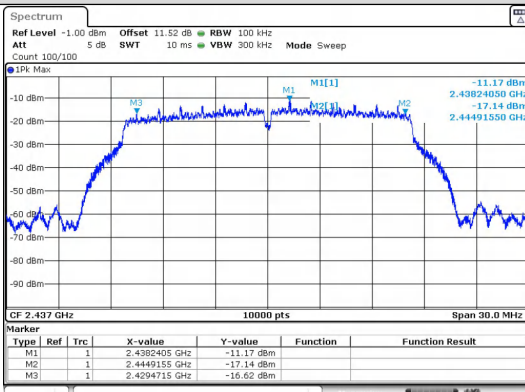
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.100	≥0.5	PASS
	6		2437	8.070		PASS
	11		2462	7.560		PASS
IEEE 802.11g	1		2412	13.79		PASS
	6		2437	15.45		PASS
	11		2462	13.83		PASS
IEEE 802.11n_20	1		2412	15.03		PASS
	6		2437	15.94		PASS
	11		2462	15.06		PASS

Test Graphs

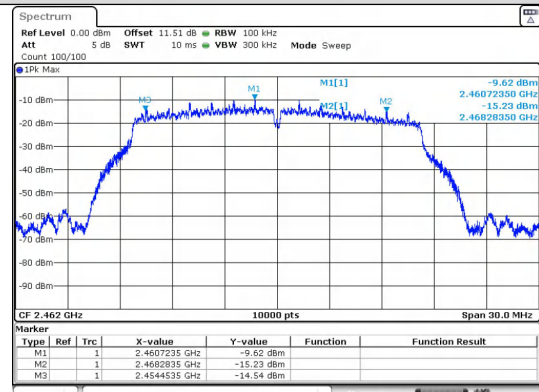




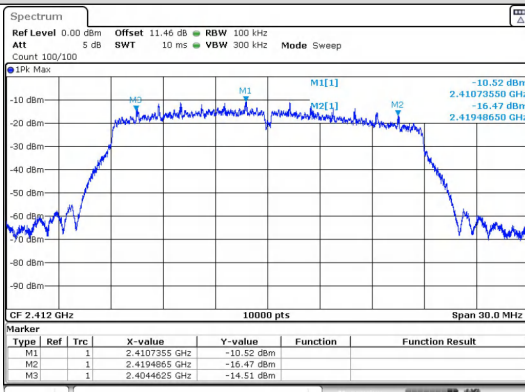
IEEE 802.11b_Channel 11_20MHz_Antenna 0



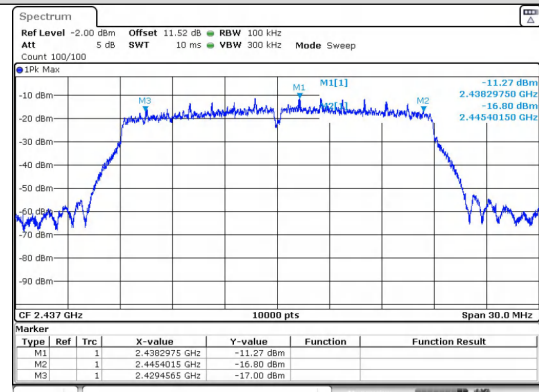
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

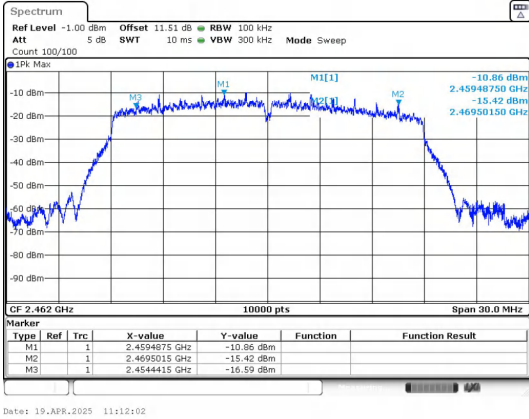


IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



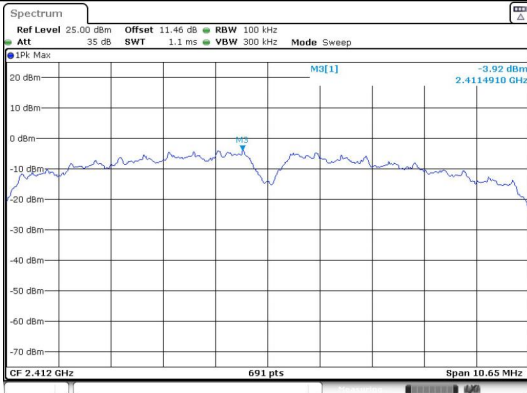
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

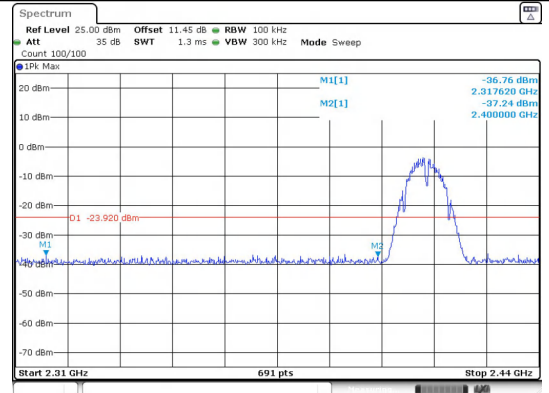
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2317.62	-36.756	-23.92	-12.836	PASS
			2400.00	-37.240	-23.92	-13.320	PASS
			6921.30	-43.381	-23.92	-19.461	PASS
	6		22042.3	-43.399	-24.5	-18.899	PASS
	11		2483.50	-39.150	-23.86	-15.290	PASS
			6917.97	-42.703	-23.86	-18.843	PASS
IEEE 802.11g	1		2373.49	-37.036	-30.13	-6.906	PASS
			2400.00	-37.950	-30.13	-7.820	PASS
			6919.60	-43.345	-30.13	-13.215	PASS
	6		22015.7	-43.059	-31.95	-11.109	PASS
	11		2483.50	-36.970	-30.72	-6.250	PASS
			5966.62	-43.742	-30.72	-13.022	PASS
IEEE 802.11n_20	1		2358.63	-37.315	-30.0	-7.315	PASS
			2400.00	-37.490	-30.0	-7.490	PASS
			6947.90	-42.419	-30.0	-12.419	PASS
	6		22019.0	-42.586	-30.62	-11.966	PASS
	11		2483.50	-38.910	-30.24	-8.670	PASS
			6962.92	-43.185	-30.24	-12.945	PASS

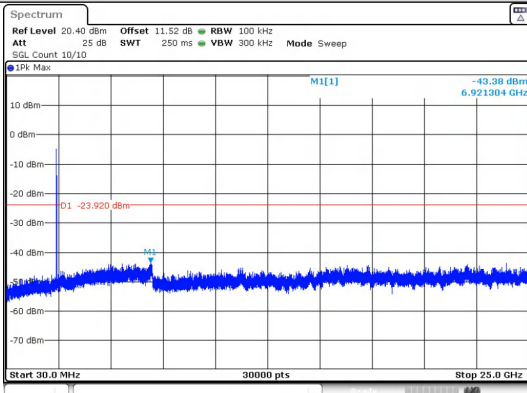
Test Graphs



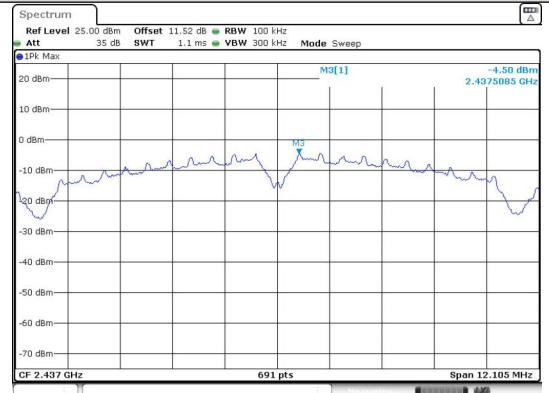
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



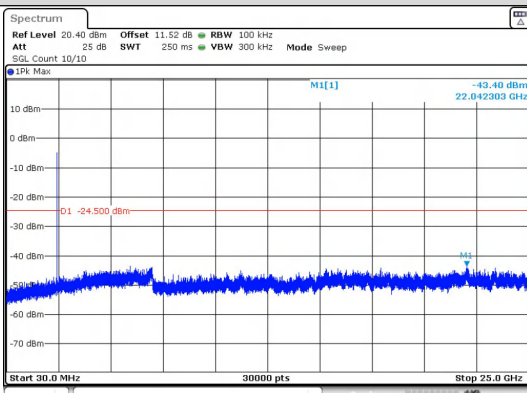
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



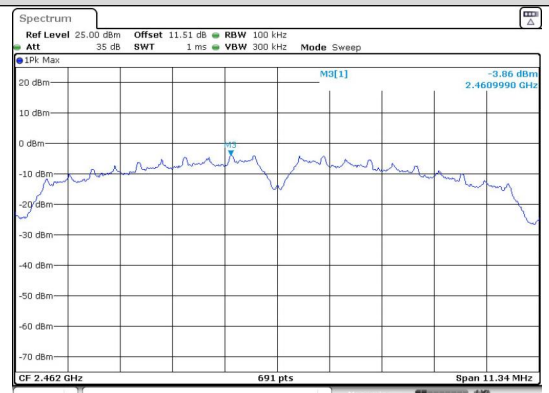
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



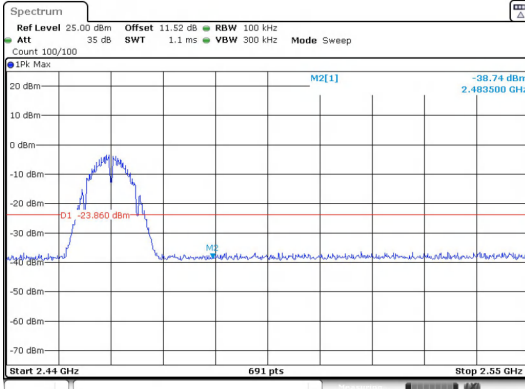
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



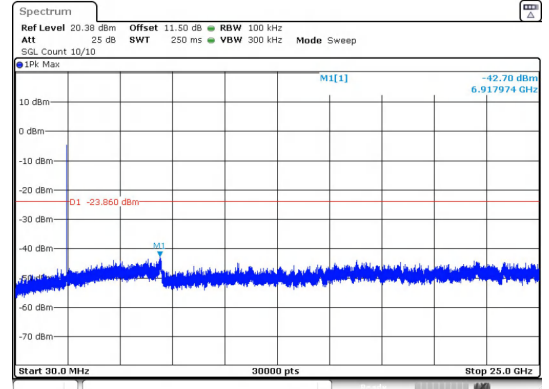
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



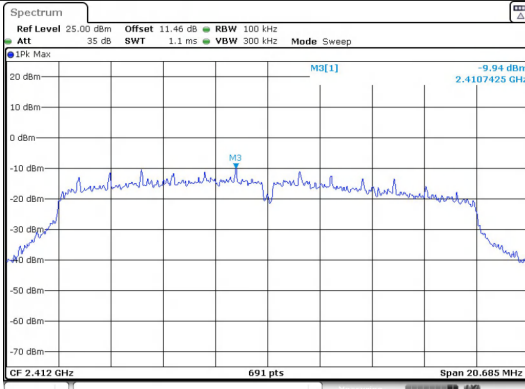
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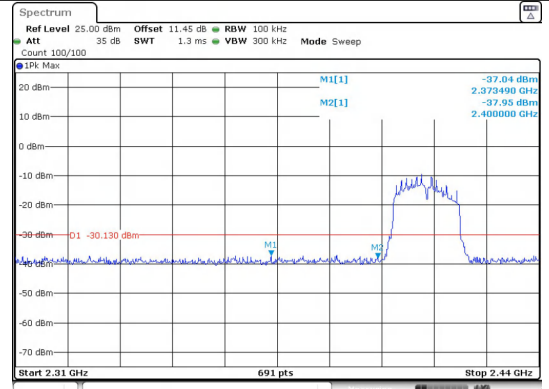
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Out Of Band Emission IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz IEEE 802.11b_Channel 11_20MHz_Antenna 0



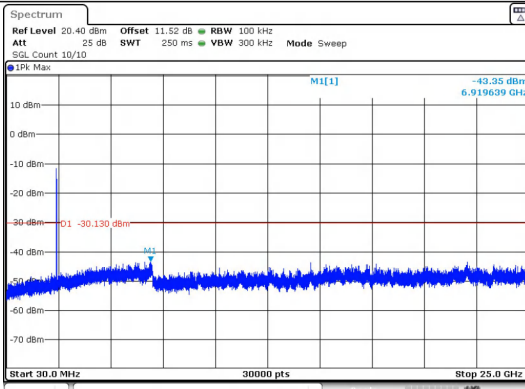
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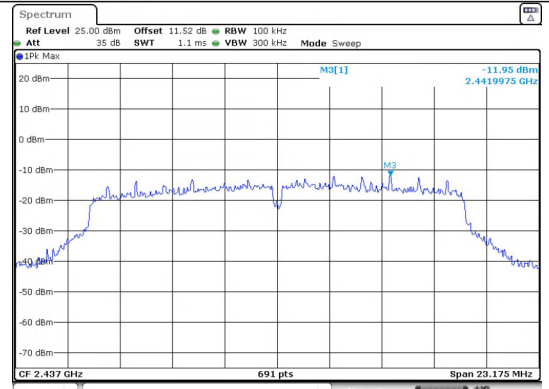
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In-Band Reference Level IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission IEEE 802.11g_Channel 1_20MHz_Antenna 0



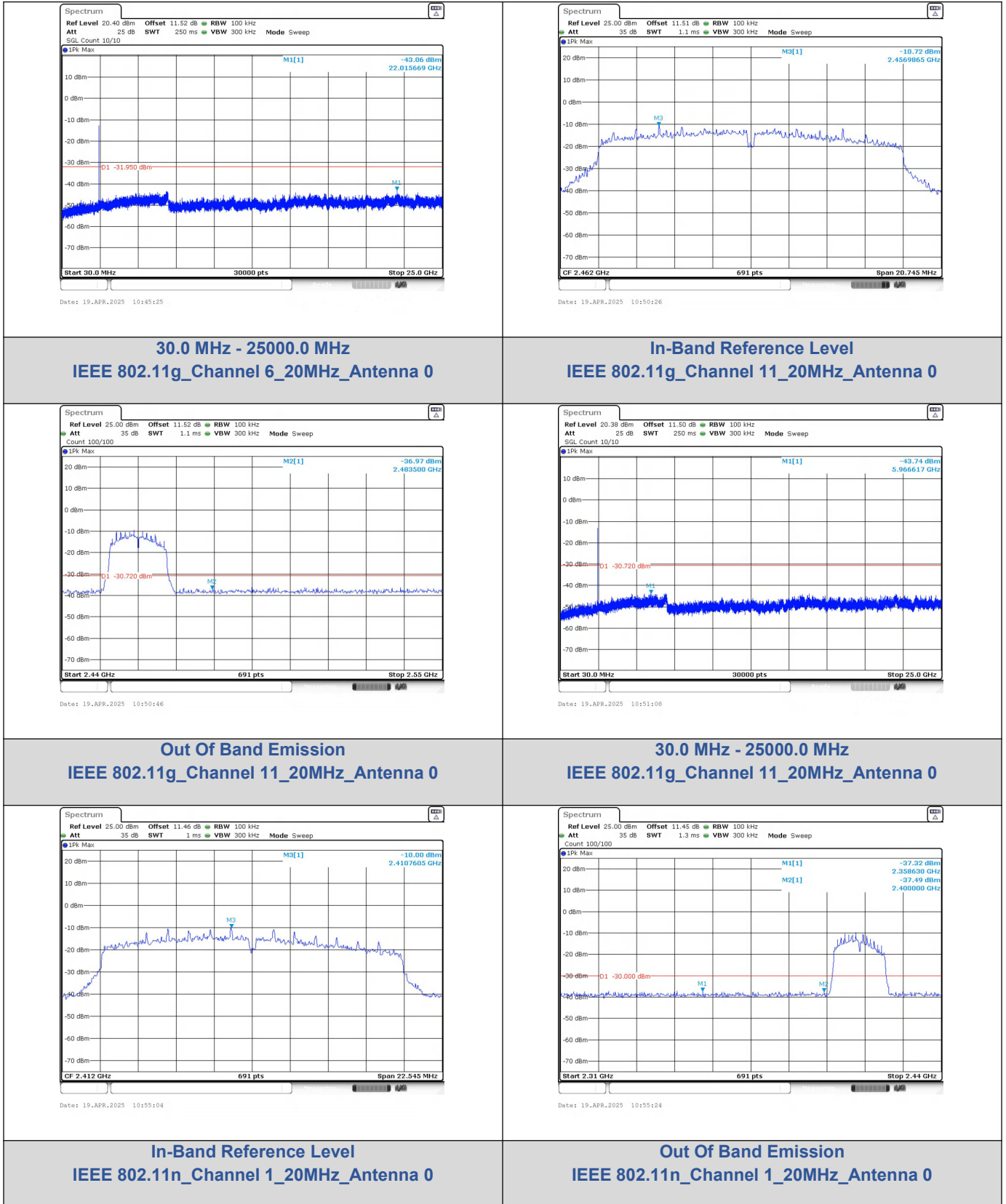
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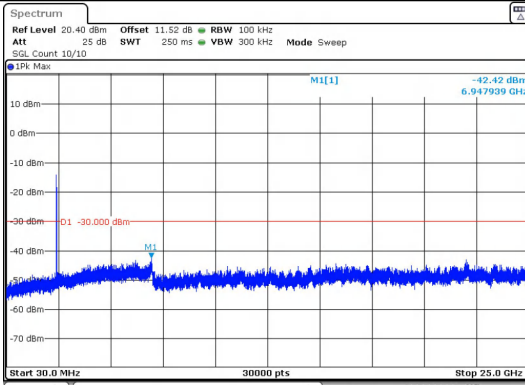


Date: 19.APR.2025 10:44:59

30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 1_20MHz_Antenna 0

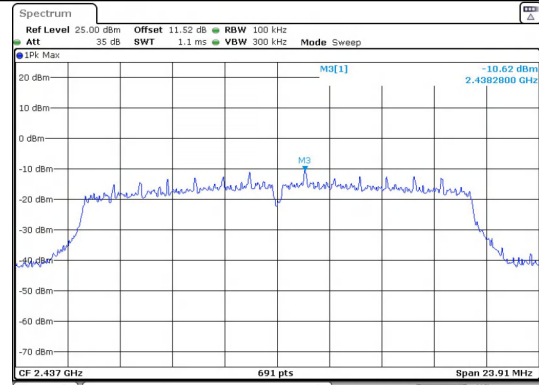
In-Band Reference Level IEEE 802.11g_Channel 6_20MHz_Antenna 0





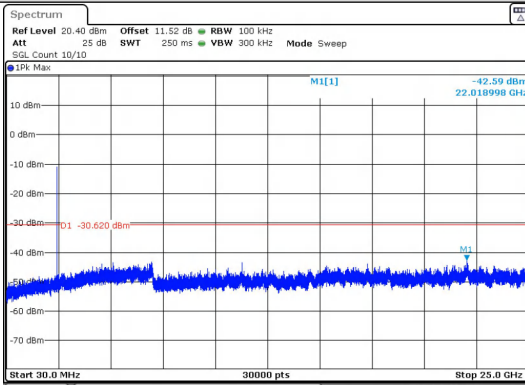
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



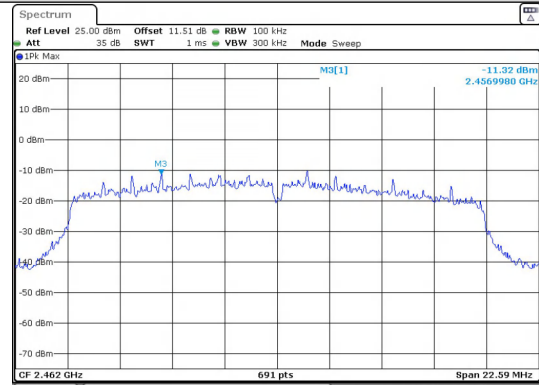
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In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



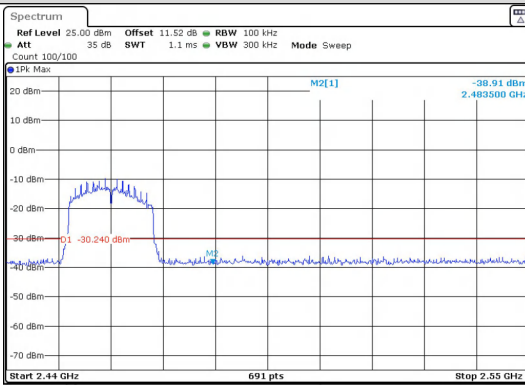
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IEEE 802.11n_Channel 6_20MHz_Antenna 0



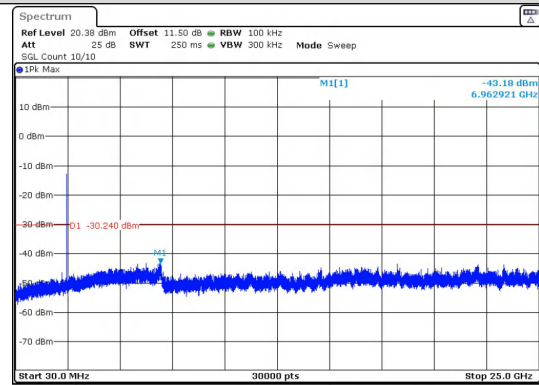
Date: 19.APR.2025 11:13:02

In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Date: 19.APR.2025 11:13:22

Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Date: 19.APR.2025 11:13:45

30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0

-----End of the report-----