

Appendix Report

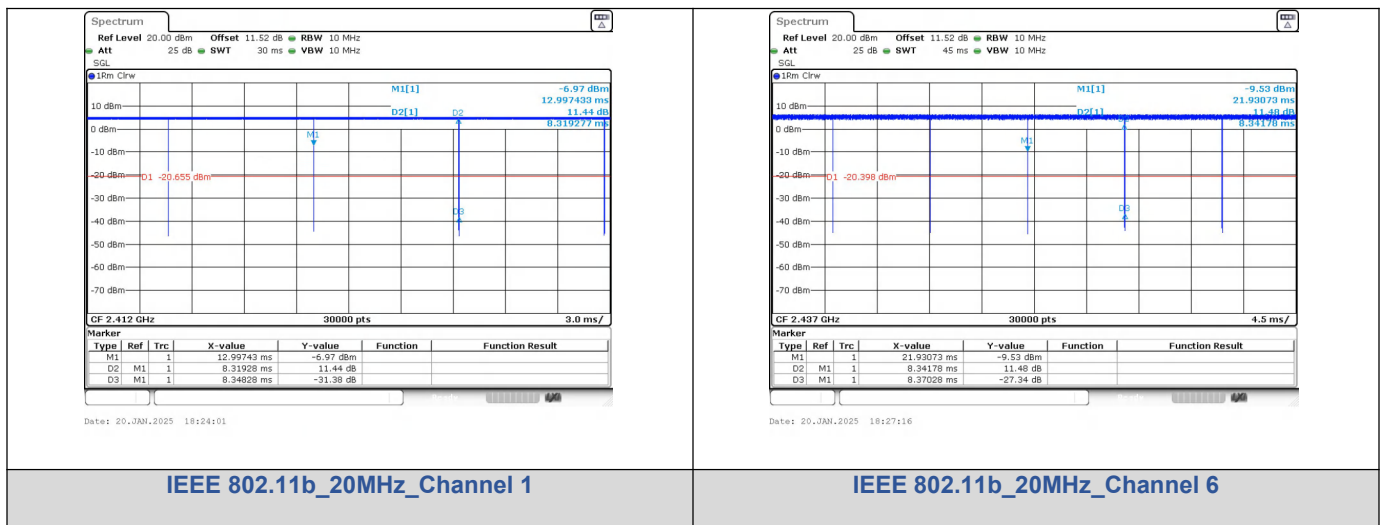
Report No.:	CISRR25011715105
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

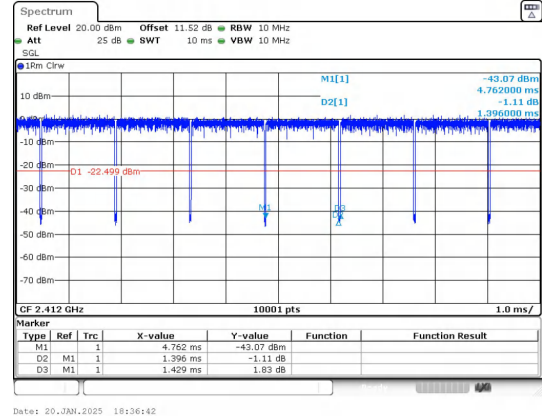
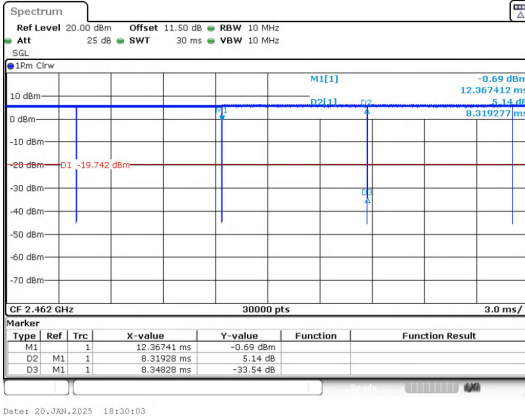
Duty Cycle

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		8.342	8.370	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		1.396	1.429	97.69	0.9769	0.1015	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		1.304	1.337	97.53	0.9753	0.1086	0.7669
		6		1.304	1.337	97.53	0.9753	0.1086	0.7669
		11		1.293	1.327	97.44	0.9744	0.1126	0.7734

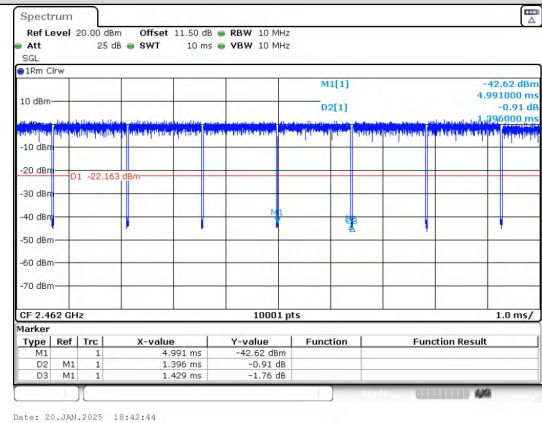
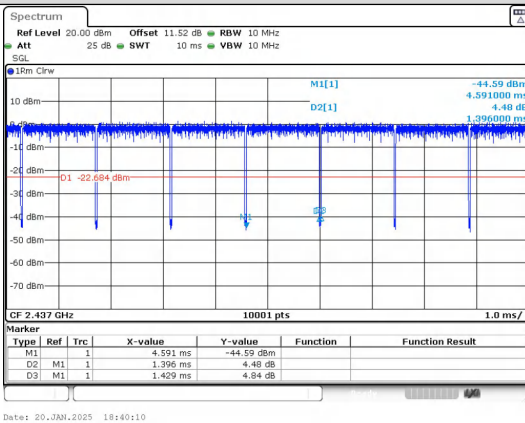
Test Graphs





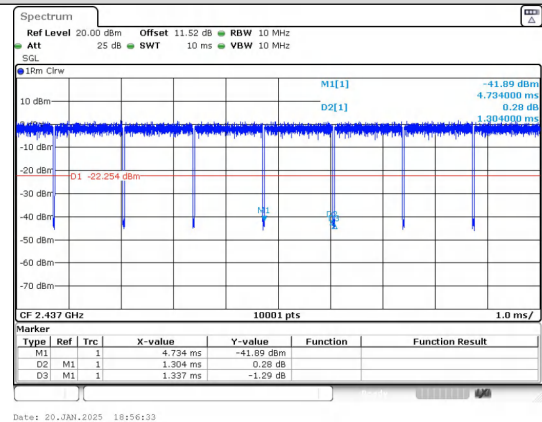
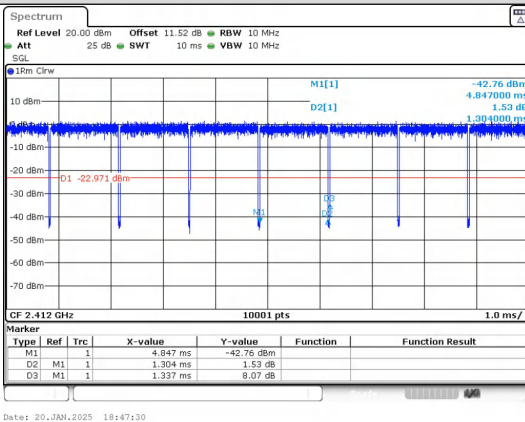
IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



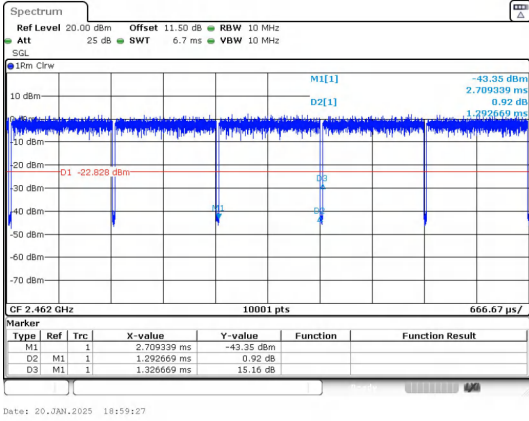
IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6



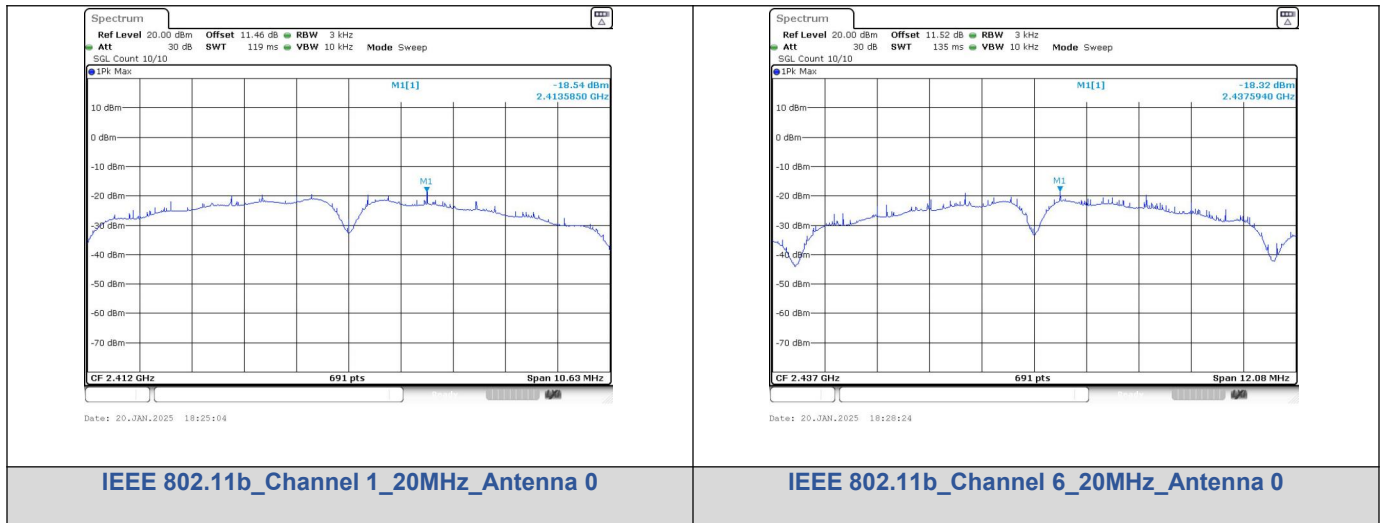
IEEE 802.11n_20MHz_Channel 11

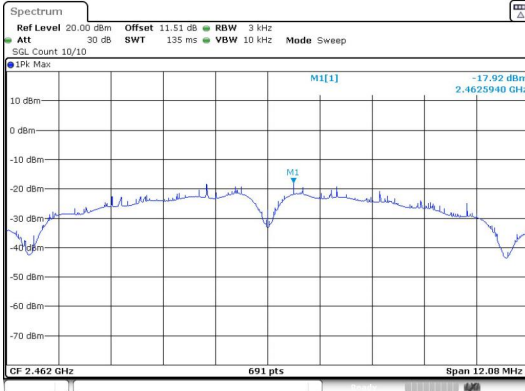
Power Spectral Density

Test Result

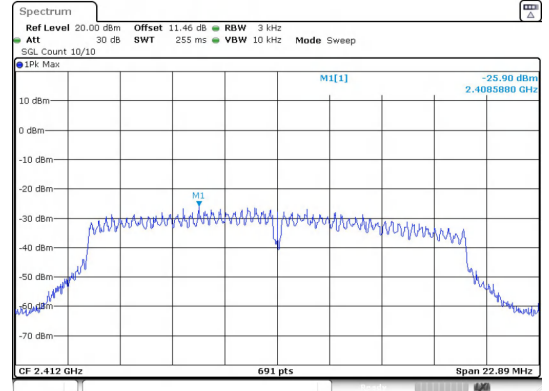
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-18.540	≤8	PASS
	6	-18.320		PASS
	11	-17.920		PASS
IEEE 802.11g	1	-25.900		PASS
	6	-26.620		PASS
	11	-26.640		PASS
IEEE 802.11n_20	1	-26.530		PASS
	6	-26.140		PASS
	11	-25.740		PASS

Test Graphs

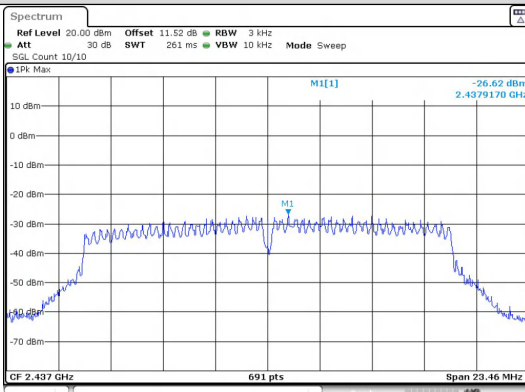




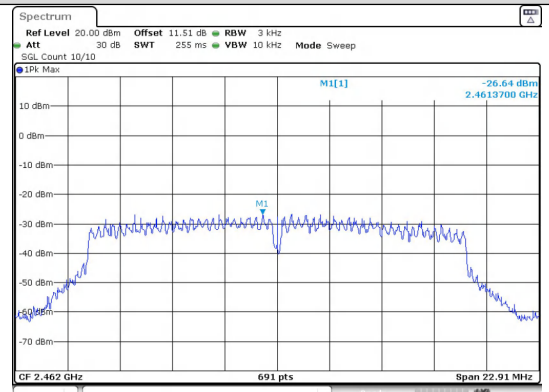
IEEE 802.11b_Channel 11_20MHz_Antenna 0



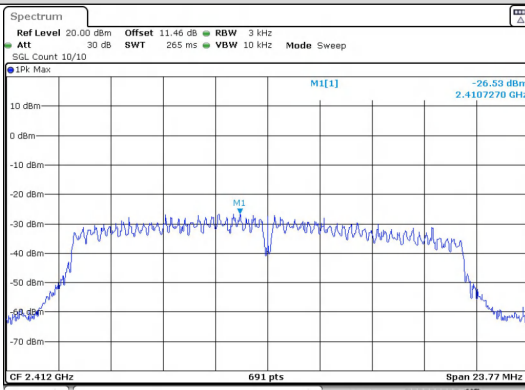
IEEE 802.11g_Channel 1_20MHz_Antenna 0



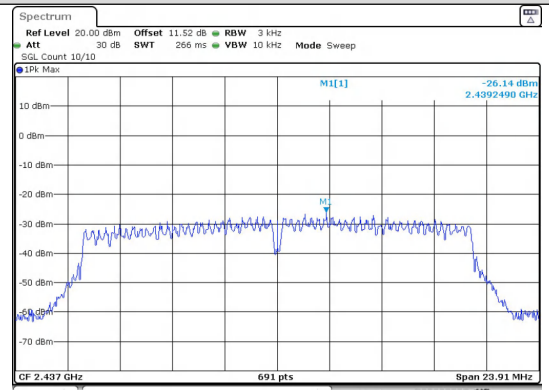
IEEE 802.11g_Channel 6_20MHz_Antenna 0



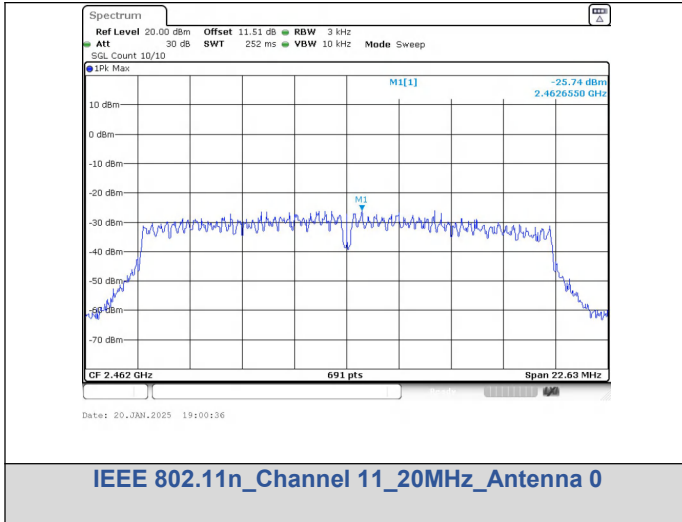
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



Conducted Output Power

Test Result

Conducted Output Power

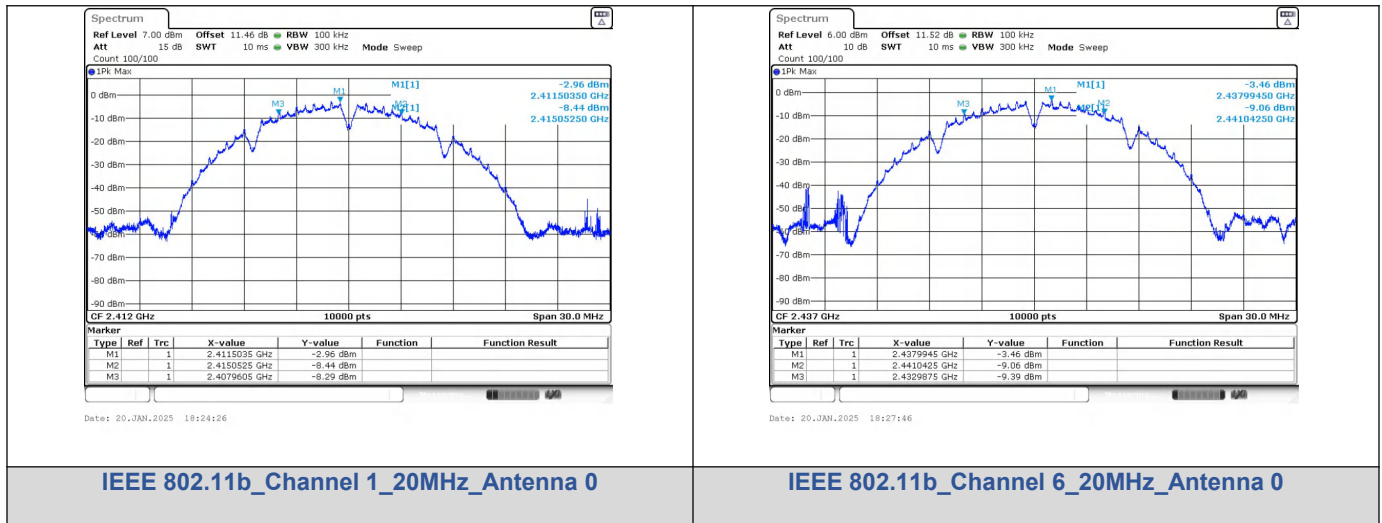
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.87	≤30	PASS
	6	8.60	≤30	PASS
	11	8.81	≤30	PASS
IEEE 802.11g	1	7.66	≤30	PASS
	6	7.27	≤30	PASS
	11	8.17	≤30	PASS
IEEE 802.11n_20	1	7.55	≤30	PASS
	6	7.84	≤30	PASS
	11	8.48	≤30	PASS

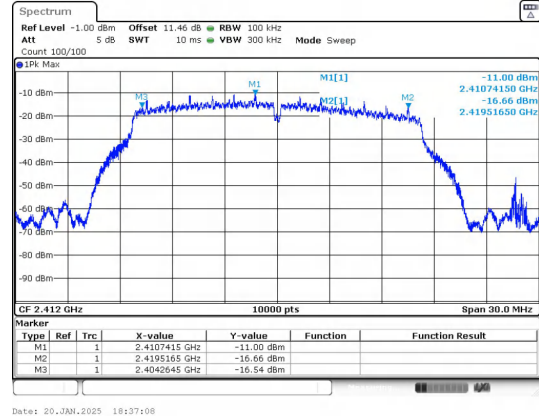
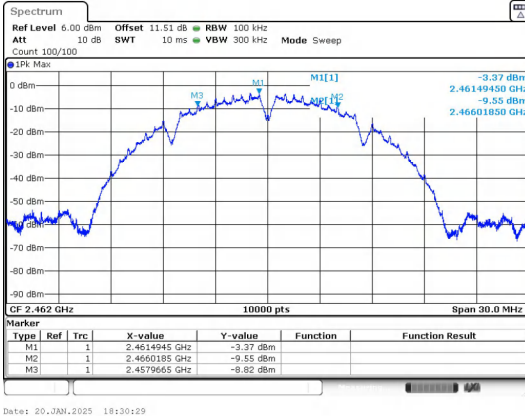
6dB Bandwidth

Test Result

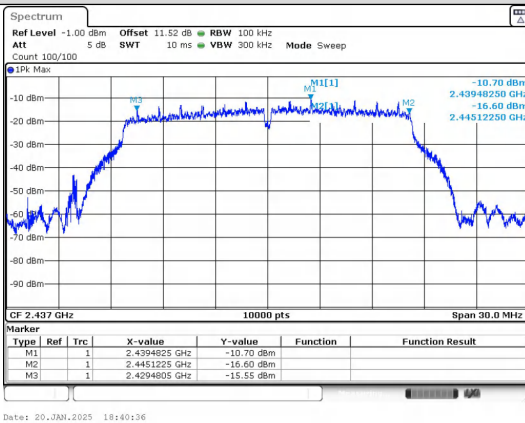
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.090	≥0.5	PASS
	6		2437	8.050		PASS
	11		2462	8.050		PASS
IEEE 802.11g	1		2412	15.26		PASS
	6		2437	15.64		PASS
	11		2462	15.27		PASS
IEEE 802.11n_20	1		2412	15.85		PASS
	6		2437	15.94		PASS
	11		2462	15.09		PASS

Test Graphs

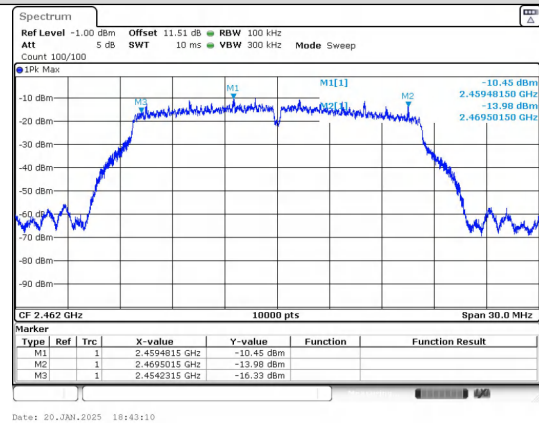




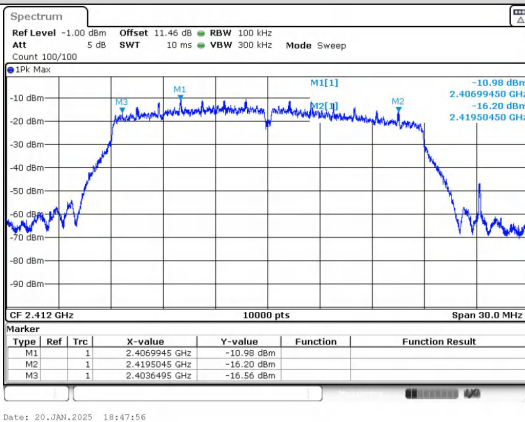
IEEE 802.11b_Channel 11_20MHz_Antenna 0



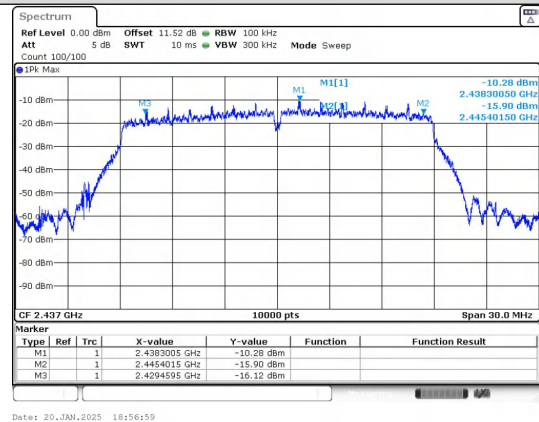
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

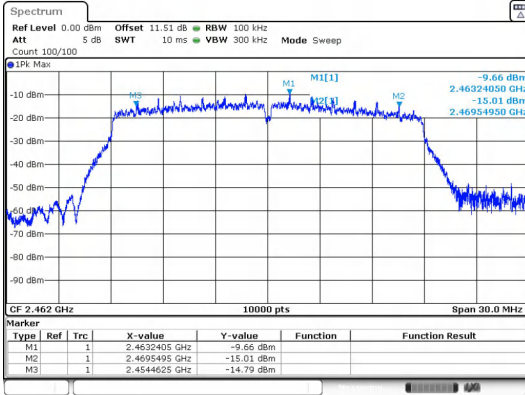


IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



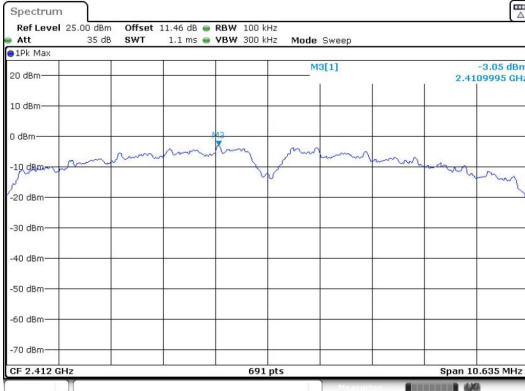
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

Test Result

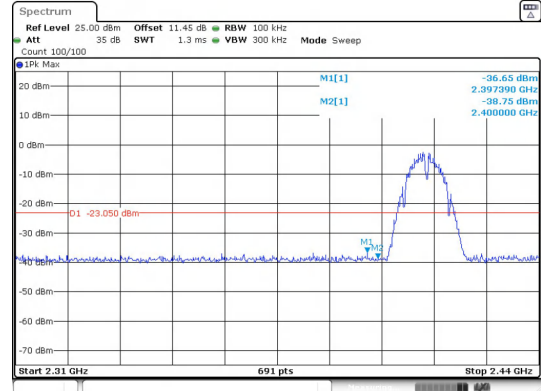
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2397.39	-36.646	-23.05	-13.596	PASS
			2400.00	-38.750	-23.05	-15.700	PASS
			6910.50	-42.818	-23.05	-19.768	PASS
	6		6948.77	-43.401	-23.6	-19.801	PASS
	11		2483.50	-37.950	-23.54	-14.410	PASS
			6927.13	-42.728	-23.54	-19.188	PASS
IEEE 802.11g	1		2318.56	-36.784	-30.42	-6.364	PASS
			2400.00	-38.160	-30.42	-7.740	PASS
			5825.10	-43.420	-30.42	-13.000	PASS
	6		6919.64	-43.046	-30.82	-12.226	PASS
	11		2483.50	-37.950	-30.06	-7.890	PASS
			6994.55	-43.407	-30.06	-13.347	PASS
IEEE 802.11n_20	1		2341.70	-36.836	-30.07	-6.766	PASS
			2400.00	-38.320	-30.07	-8.250	PASS
			21575.4	-43.557	-30.07	-13.487	PASS
	6		6987.06	-43.533	-29.95	-13.583	PASS
	11		2483.50	-38.100	-29.79	-8.310	PASS
			6899.66	-43.295	-29.79	-13.505	PASS

Test Graphs



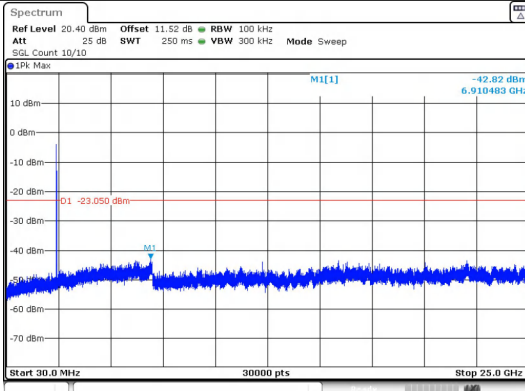
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In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



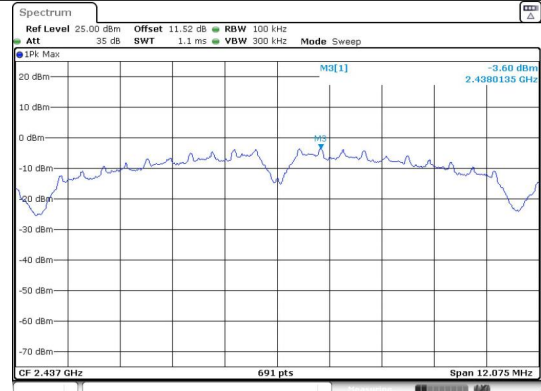
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Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



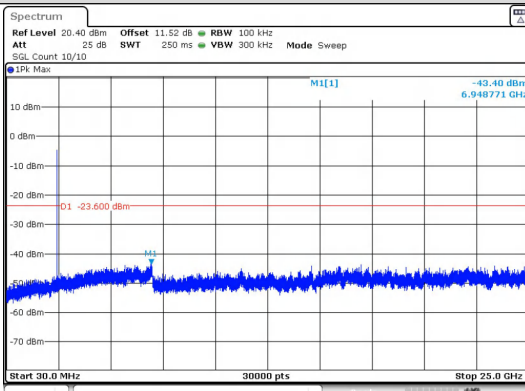
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



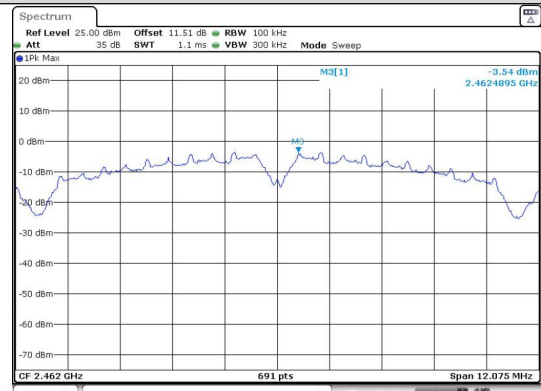
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In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



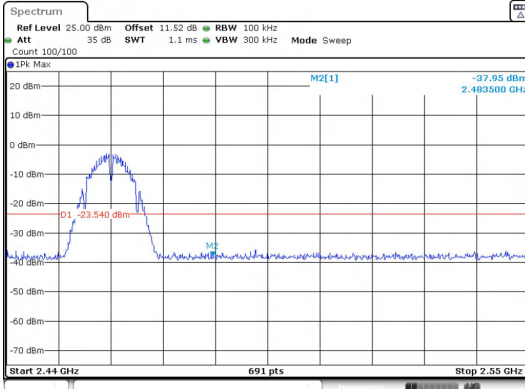
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0

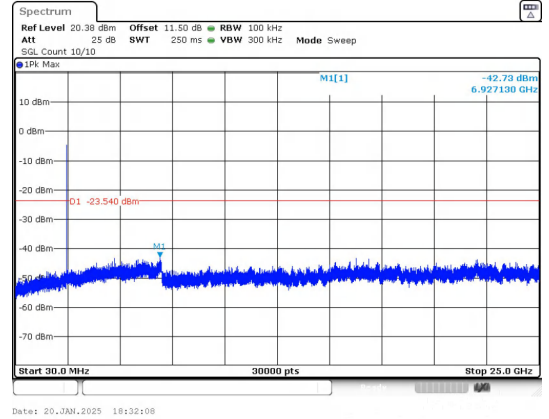


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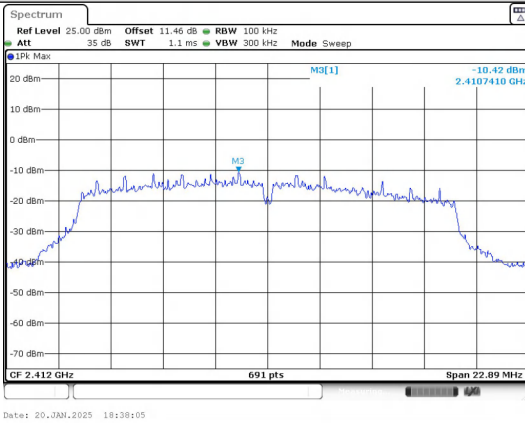
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



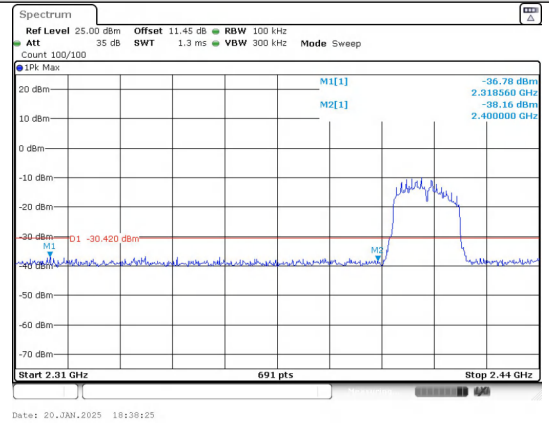
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



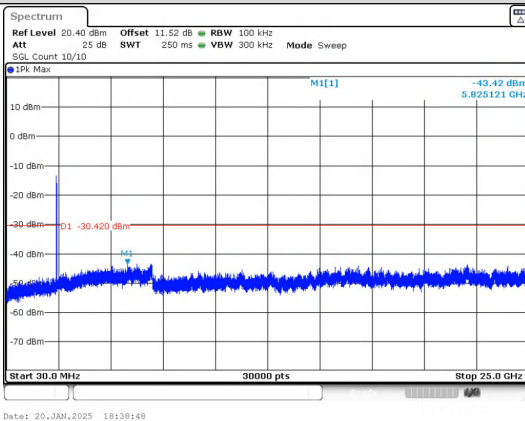
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



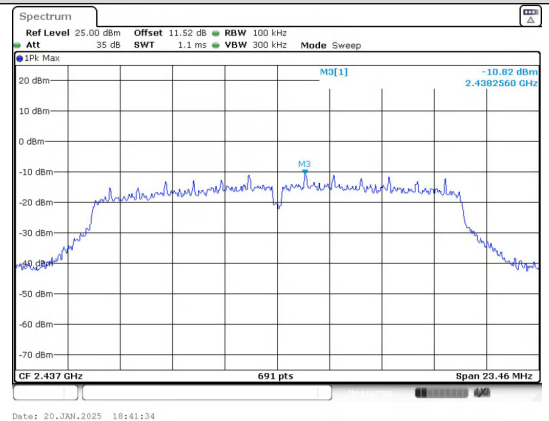
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



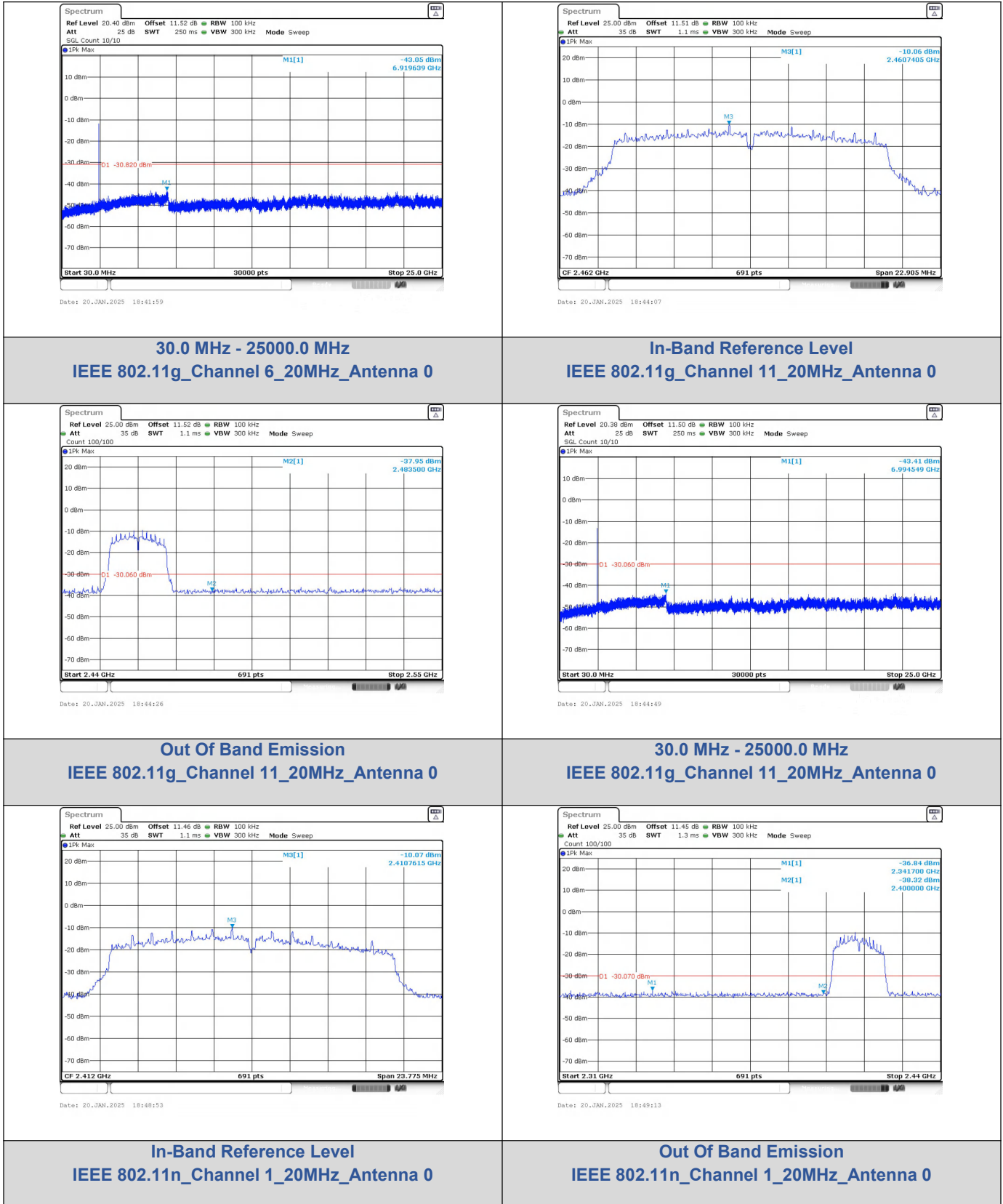
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0

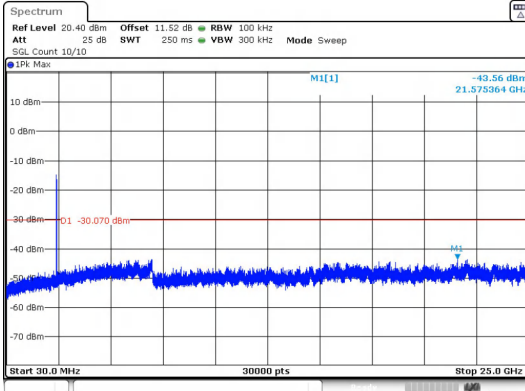


30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0

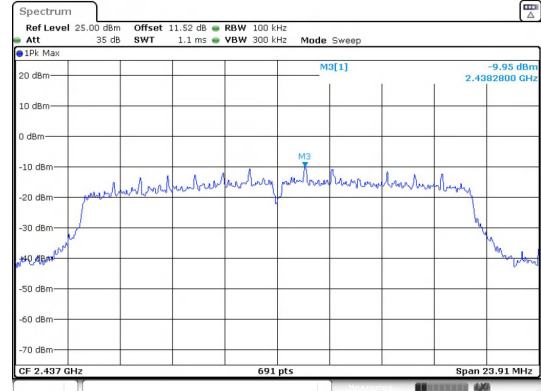


In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0





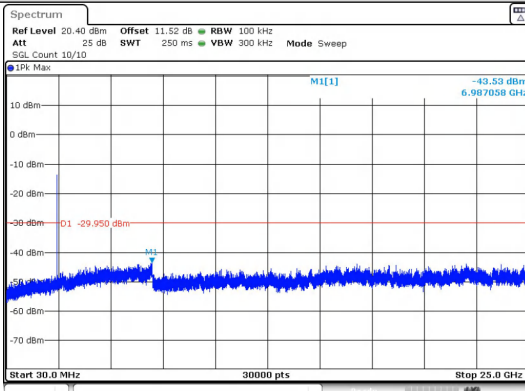
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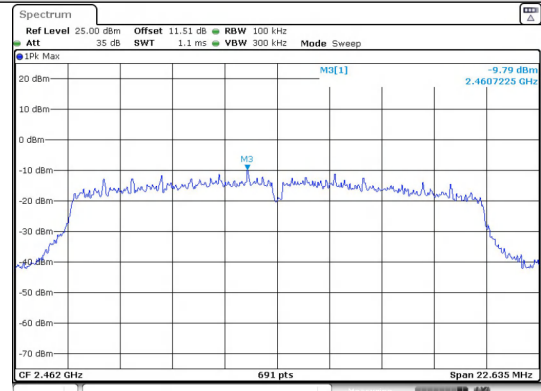
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



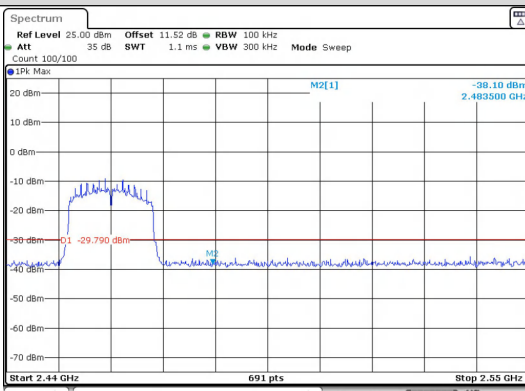
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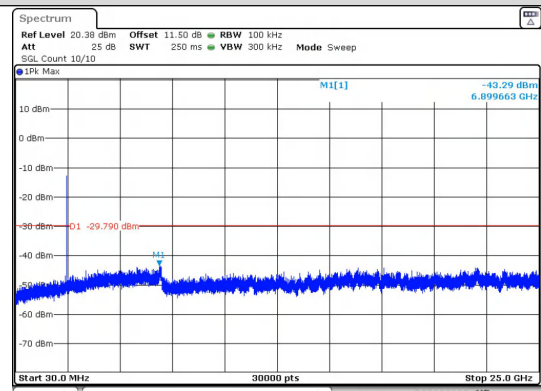
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Date: 20.JAN.2025 19:01:13



Date: 20.JAN.2025 19:01:36

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

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