

Appendix Report

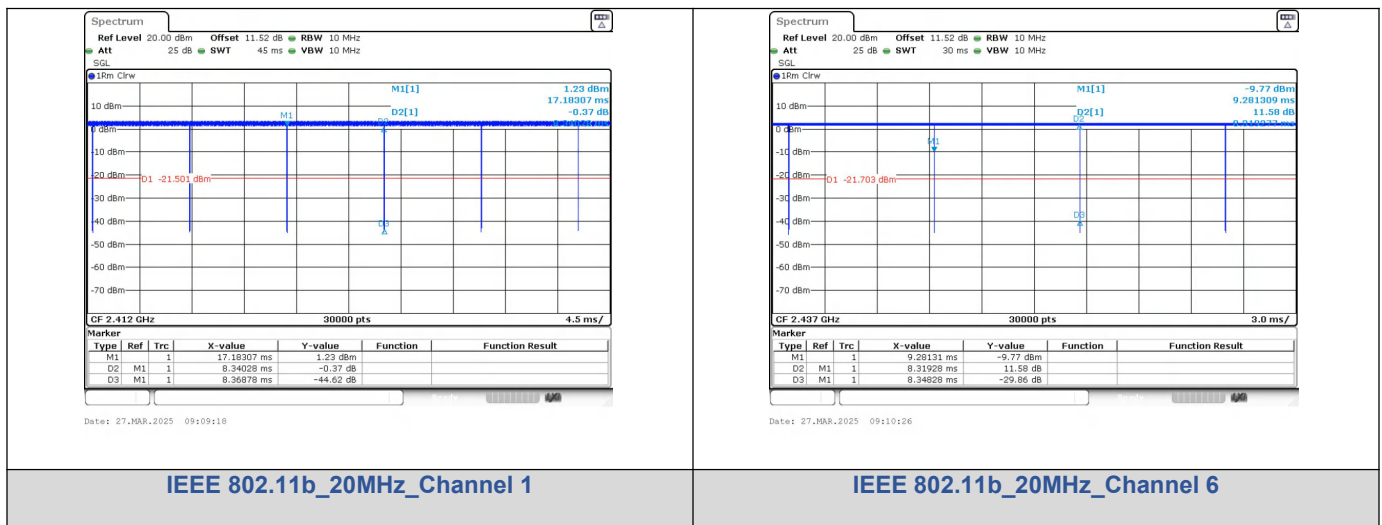
Project No.:	CISR250322196
Test Engineer:	James Wang
Supervised by:	Rory Huang

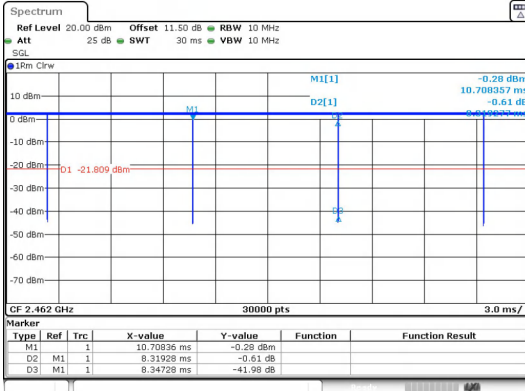
Duty Cycle

Test Result

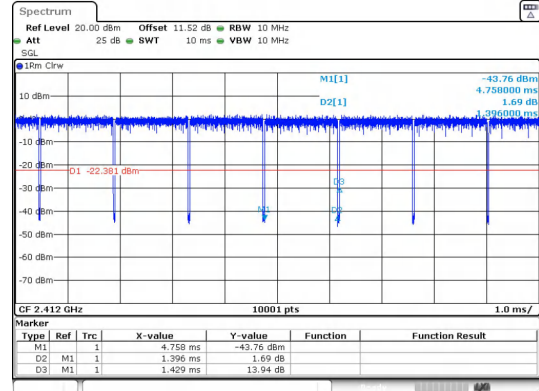
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.340	8.369	99.66	0.9966	0.0148	0.1199
		6		8.319	8.348	99.65	0.9965	0.0152	0.1202
		11		8.319	8.347	99.66	0.9966	0.0148	0.1202
IEEE 802.11g	1	1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.430	97.62	0.9762	0.1046	0.7163
IEEE 802.11n_20	MCS 0	1		1.293	1.327	97.44	0.9744	0.1126	0.7734
		6		1.304	1.337	97.53	0.9753	0.1086	0.7669
		11		1.292	1.326	97.44	0.9744	0.1126	0.7740

Test Graphs





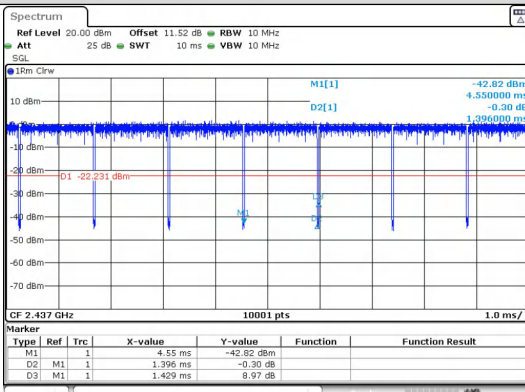
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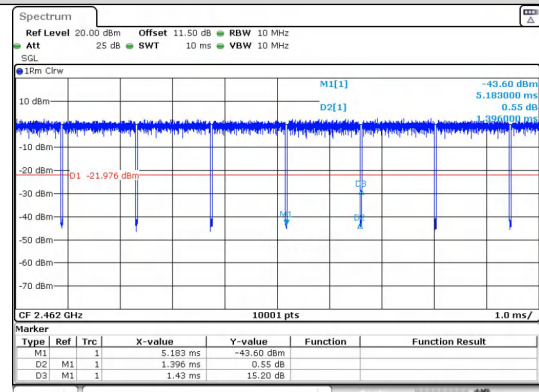
Date: 27,MAR,2025 09:16:15

IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



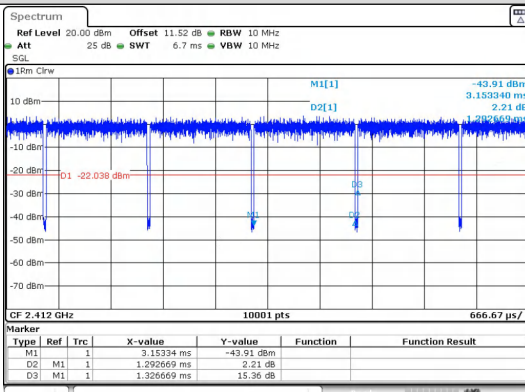
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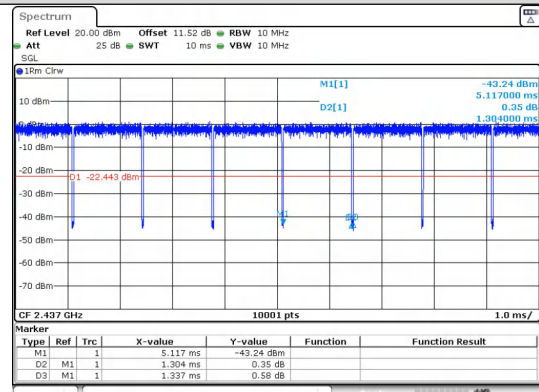
Date: 27,MAR,2025 09:24:07

IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



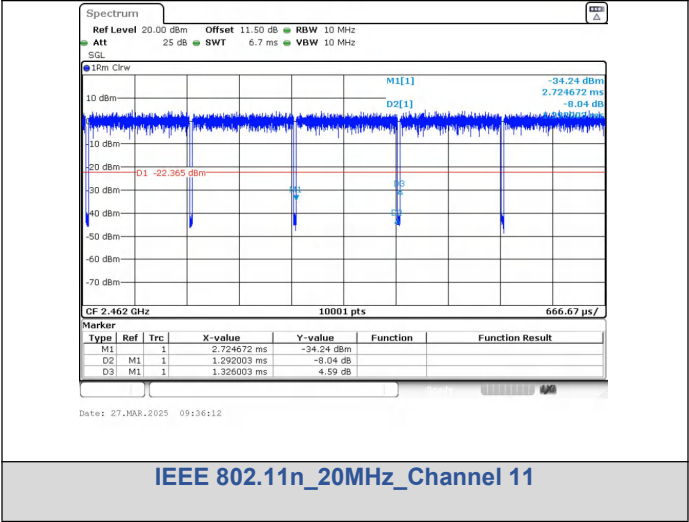
Date: 27,MAR,2025 09:27:54



Date: 27,MAR,2025 09:32:57

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6

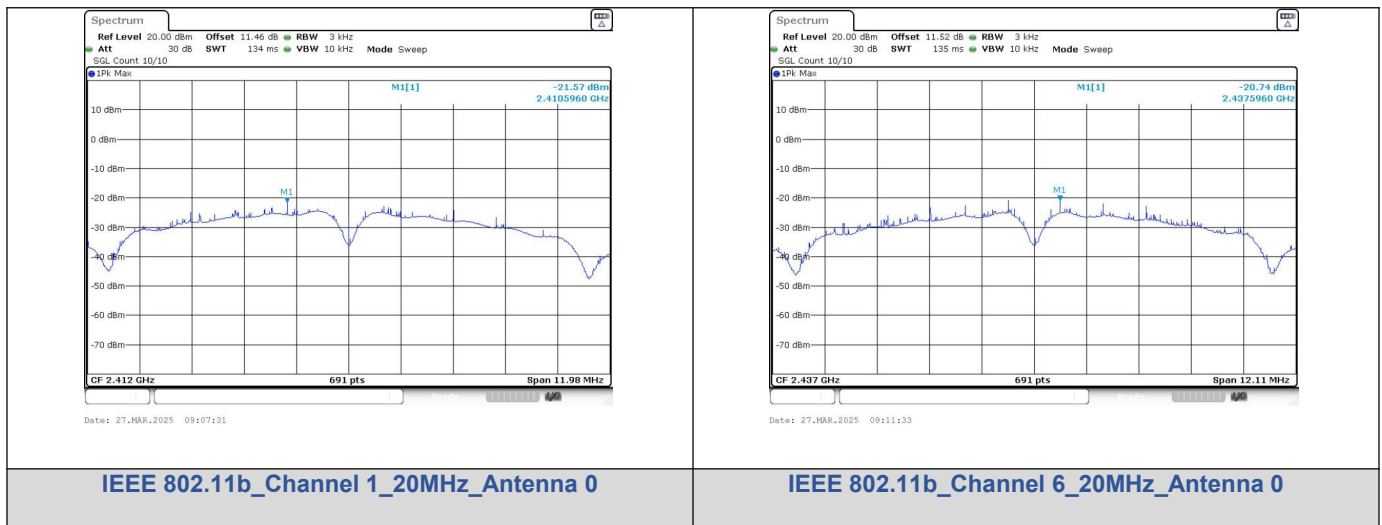


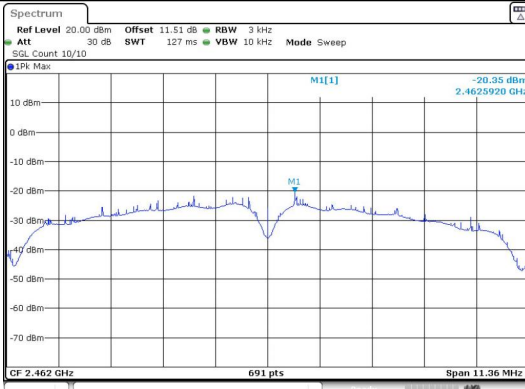
Power Spectral Density

Test Result

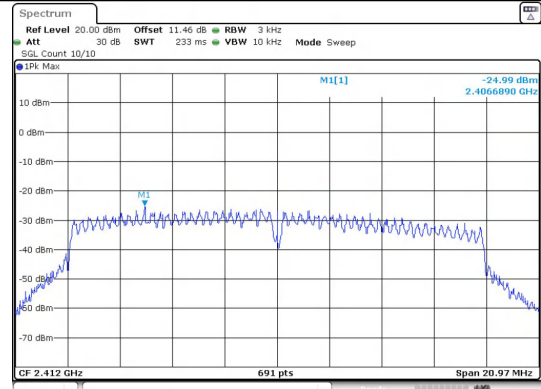
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-21.570	≤8	PASS
	6	-20.740		PASS
	11	-20.350		PASS
IEEE 802.11g	1	-24.990		PASS
	6	-26.040		PASS
	11	-22.970		PASS
IEEE 802.11n_20	1	-25.650		PASS
	6	-24.910		PASS
	11	-23.740		PASS

Test Graphs





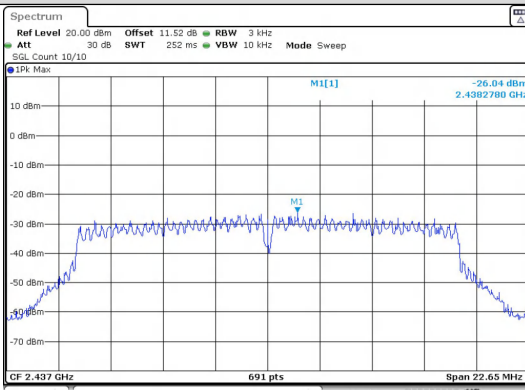
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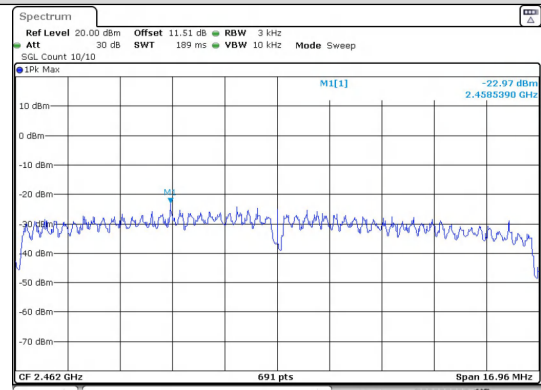
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IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



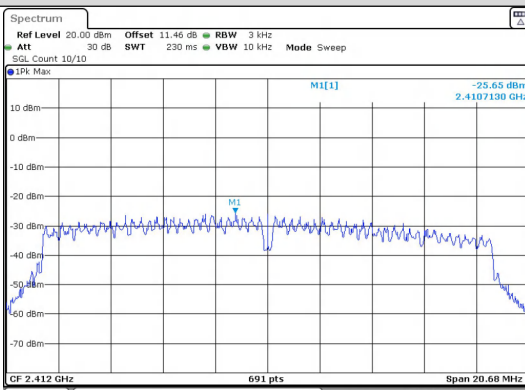
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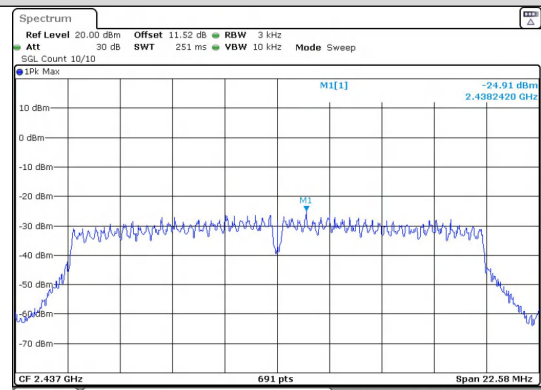
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IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



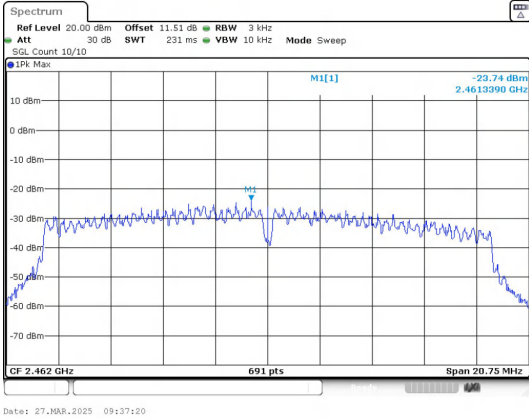
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Date: 27.MAR.2025 09:34:07

IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

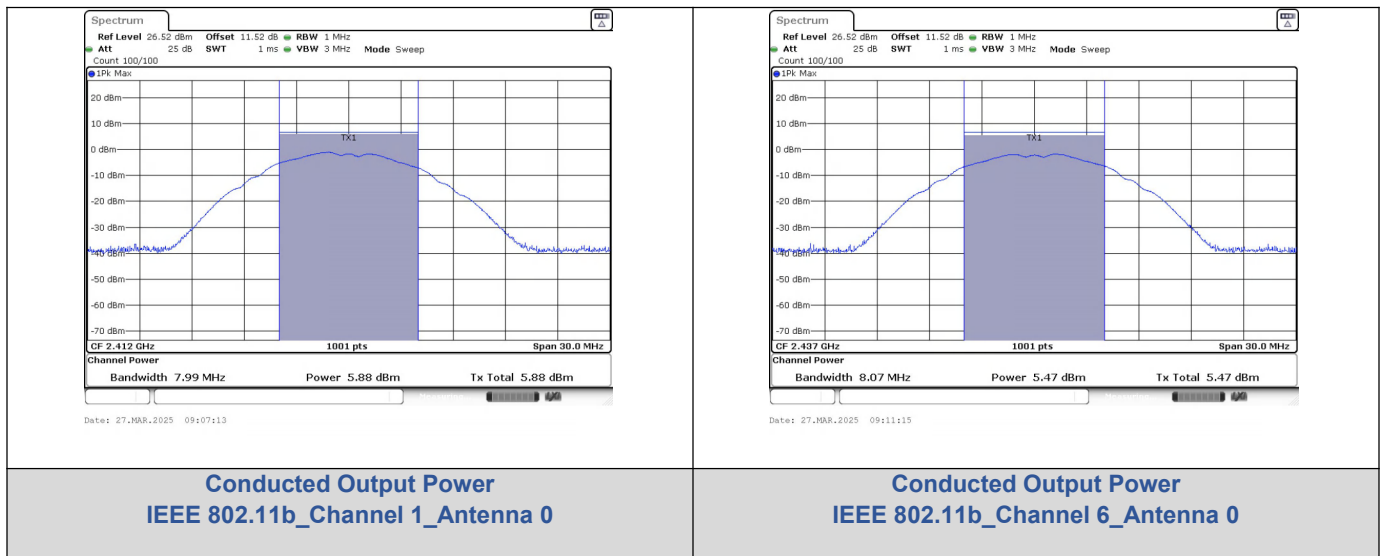
Conducted Output Power

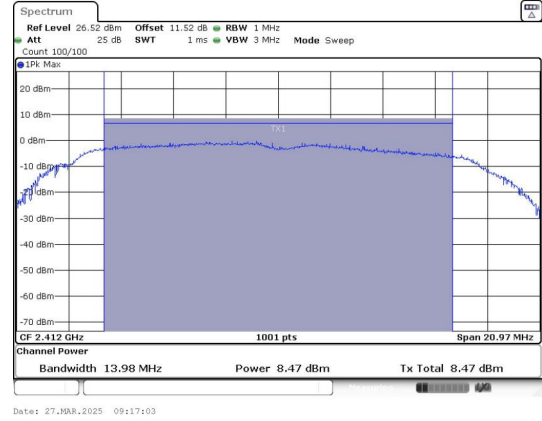
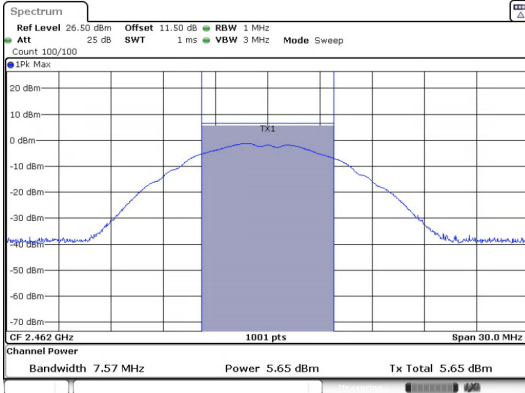
Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	5.88	≤30	PASS
	6	5.47	≤30	PASS
	11	5.65	≤30	PASS
IEEE 802.11g	1	8.47	≤30	PASS
	6	8.12	≤30	PASS
	11	8.87	≤30	PASS
IEEE 802.11n_20	1	8.45	≤30	PASS
	6	8.29	≤30	PASS
	11	7.81	≤30	PASS

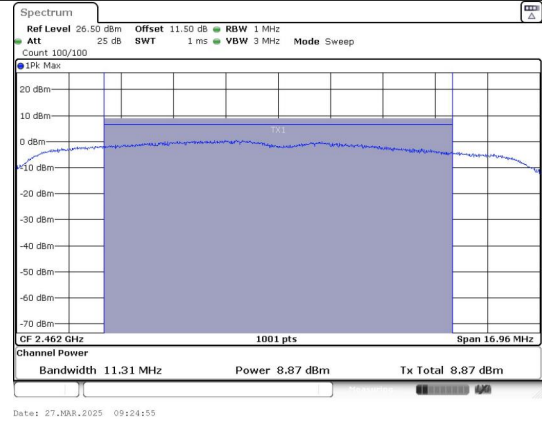
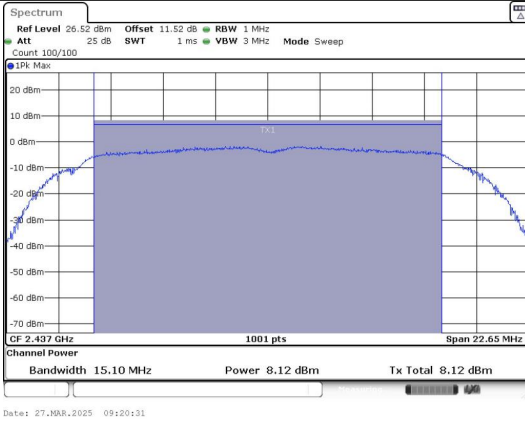
Test Graphs





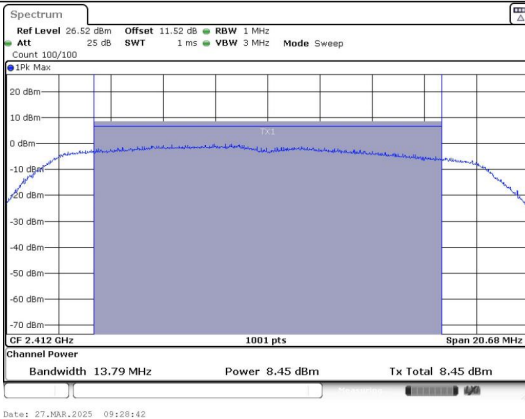
**Conducted Output Power
IEEE 802.11b_Channel 1_Antenna 0**

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



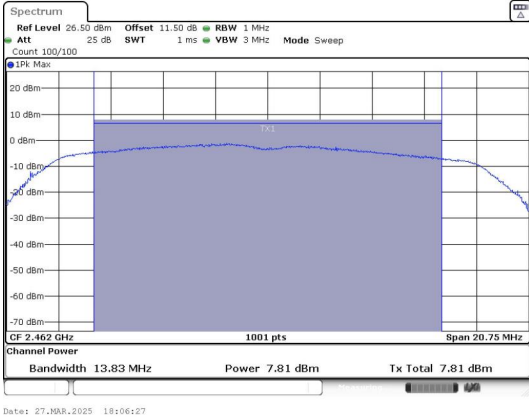
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**

**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**



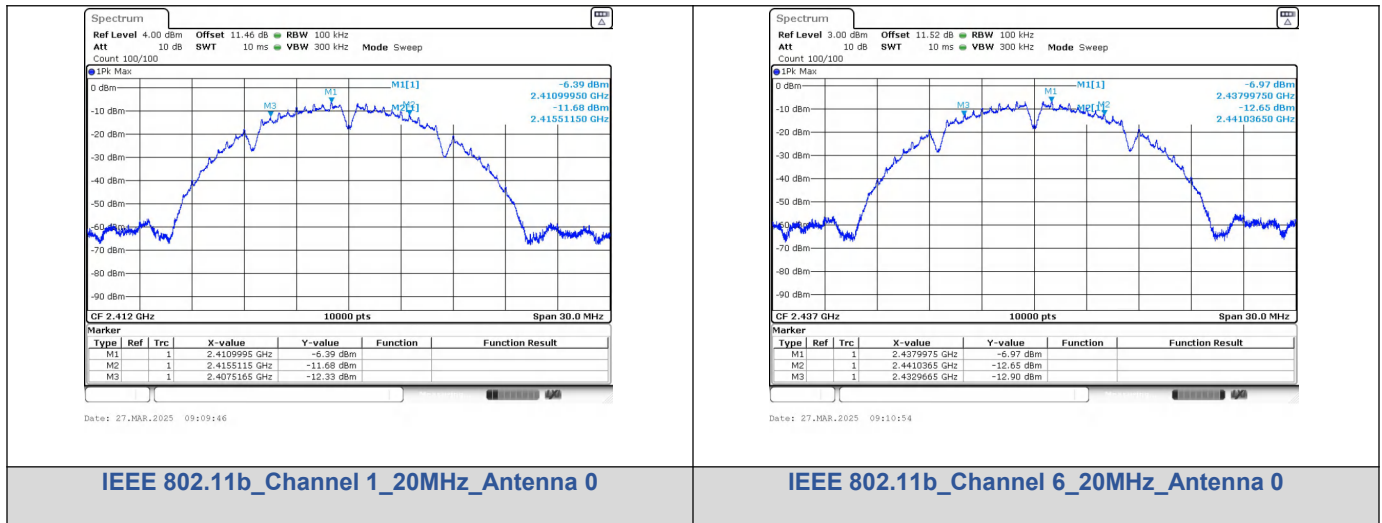
Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0

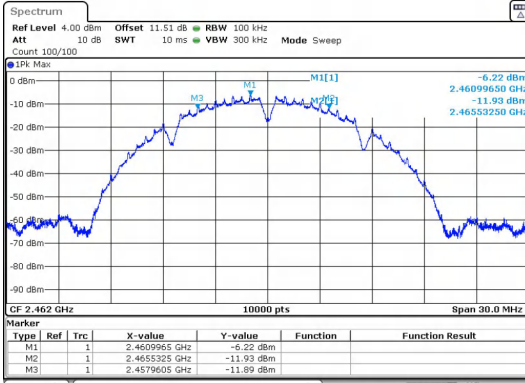
6dB Bandwidth

Test Result

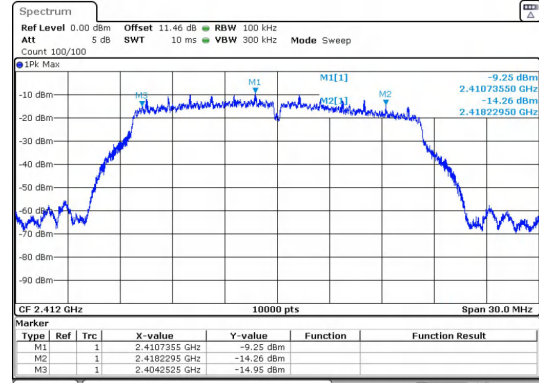
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.990	≥0.5	PASS
	6		2437	8.070		PASS
	11		2462	7.570		PASS
IEEE 802.11g	1		2412	13.98		PASS
	6		2437	15.10		PASS
	11		2462	11.31		PASS
IEEE 802.11n_20	1		2412	13.79		PASS
	6		2437	15.05		PASS
	11		2462	13.83		PASS

Test Graphs



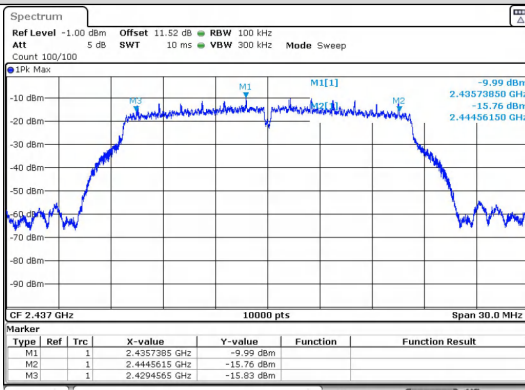


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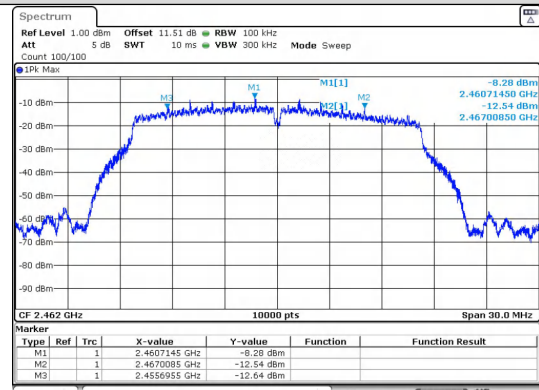
Date: 27.MAR.2025 09:16:43

IEEE 802.11b_Channel 11_20MHz_Antenna 0



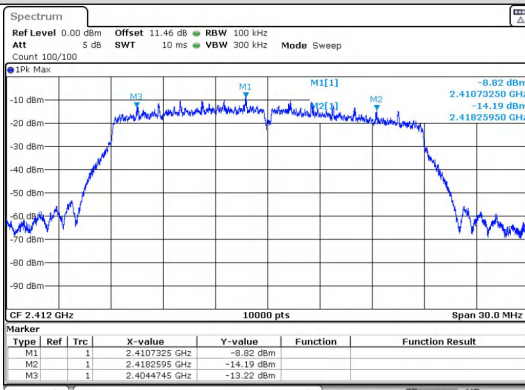
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IEEE 802.11g_Channel 1_20MHz_Antenna 0

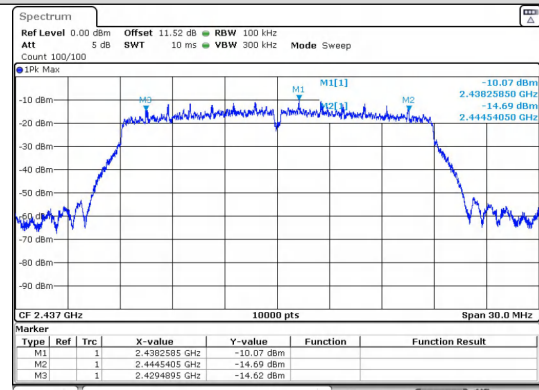


Date: 27.MAR.2025 09:12:15

IEEE 802.11g_Channel 6_20MHz_Antenna 0



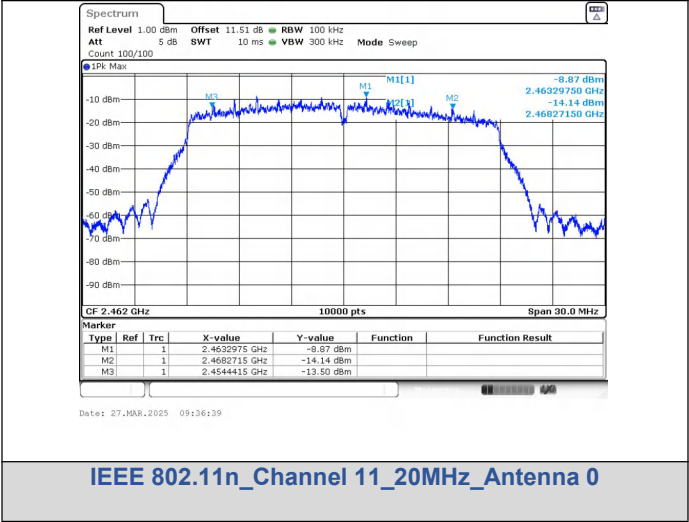
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Date: 27.MAR.2025 09:13:25

IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0

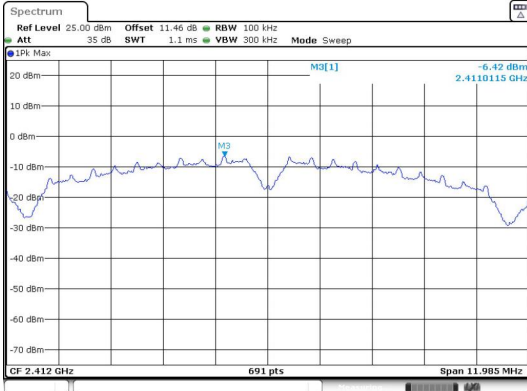


Conducted Out Of Band Emission

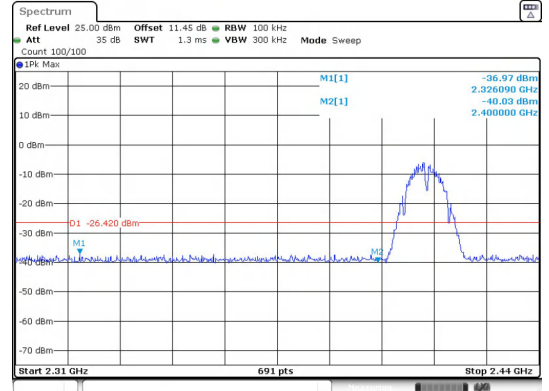
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2326.09	-36.969	-26.42	-10.549	PASS
			2400.00	-40.030	-26.42	-13.610	PASS
			6768.20	-43.167	-26.42	-16.747	PASS
	6		6949.60	-43.662	-26.9	-16.762	PASS
	11		2483.50	-37.780	-26.31	-11.470	PASS
			6858.05	-43.526	-26.31	-17.216	PASS
IEEE 802.11g	1		2358.07	-36.055	-29.59	-6.465	PASS
			2400.00	-38.250	-29.59	-8.660	PASS
			18238.5	-43.352	-29.59	-13.762	PASS
	6		6981.23	-42.959	-29.93	-13.029	PASS
	11		2483.50	-37.460	-27.68	-9.780	PASS
			22039.0	-43.246	-27.68	-15.566	PASS
IEEE 802.11n_20	1		2390.99	-37.327	-29.59	-7.737	PASS
			2400.00	-38.390	-29.59	-8.800	PASS
			6898.80	-42.831	-29.59	-13.241	PASS
	6		5739.39	-43.386	-30.57	-12.816	PASS
	11		2483.50	-37.990	-28.72	-9.270	PASS
			6927.96	-42.422	-28.72	-13.702	PASS

Test Graphs



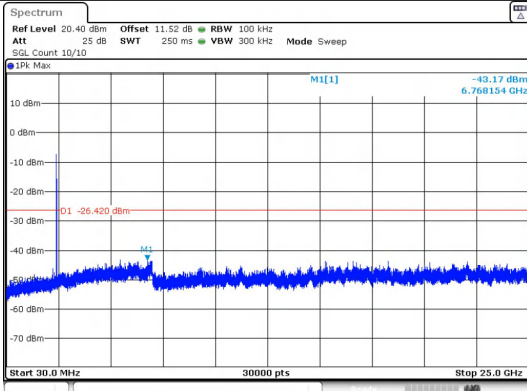
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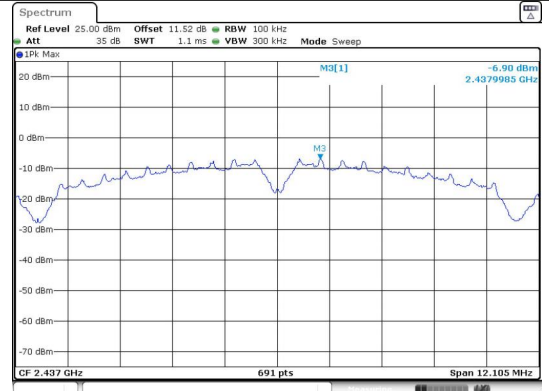
Date: 27.MAR.2025 09:08:11

**In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0**

**Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0**



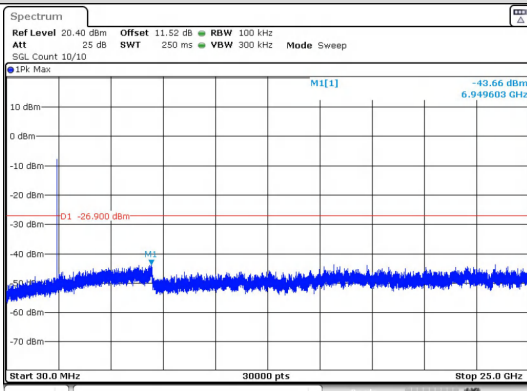
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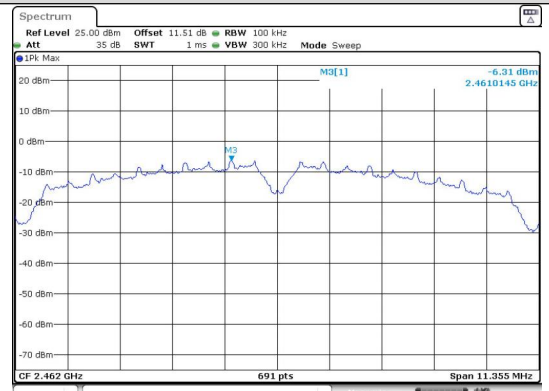
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**30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0**

**In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0**



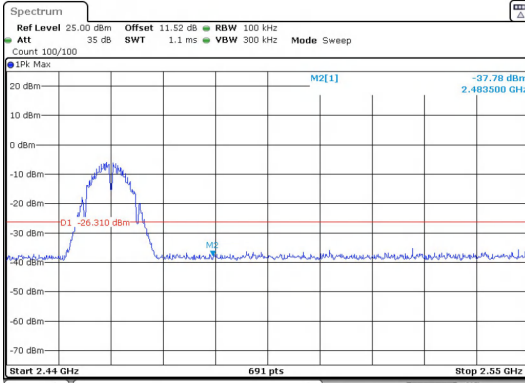
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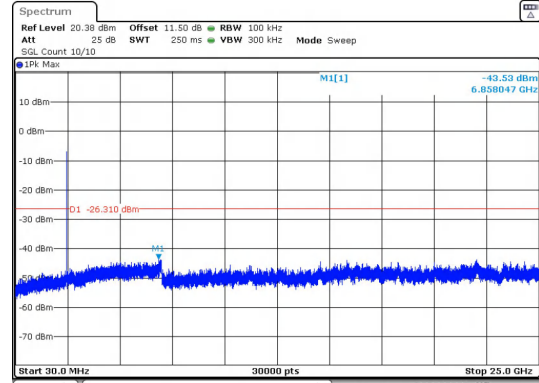
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**30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0**

**In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0**



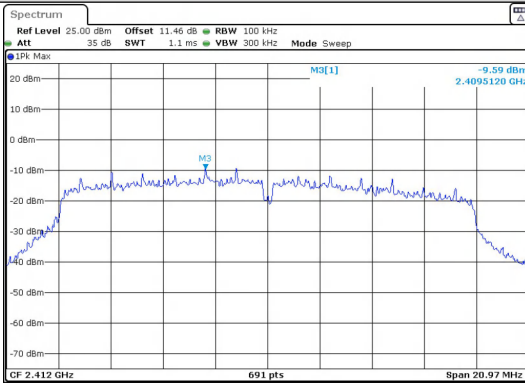
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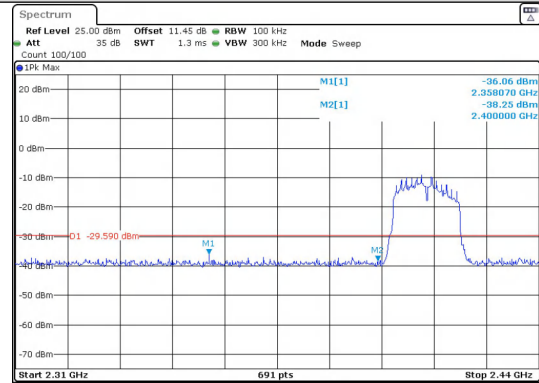
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Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



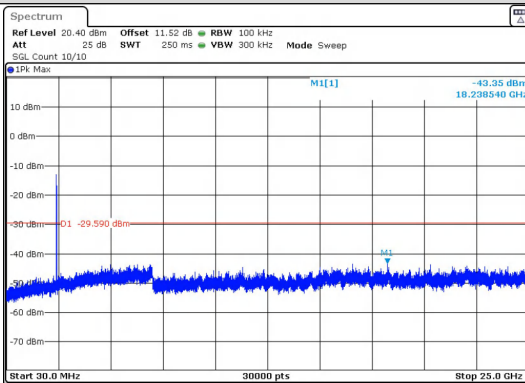
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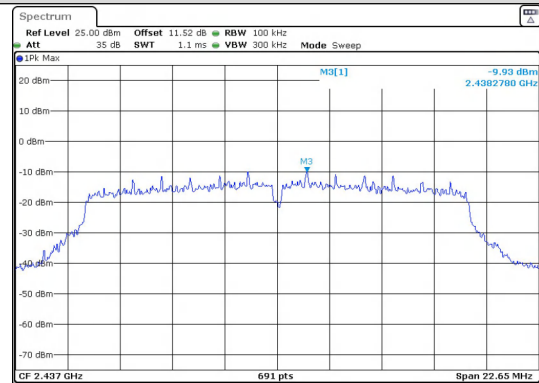
Date: 27.MAR.2025 09:18:03

In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



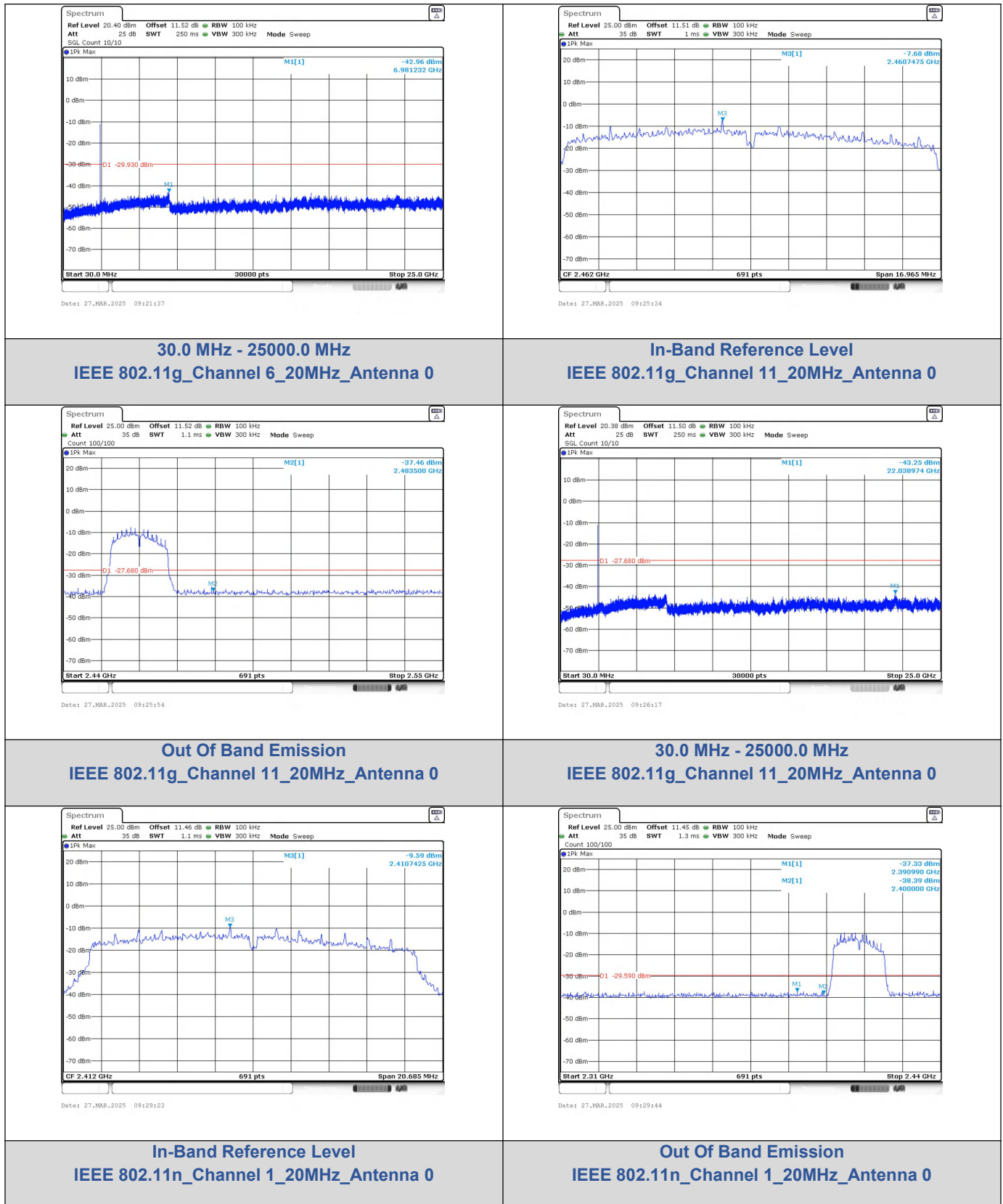
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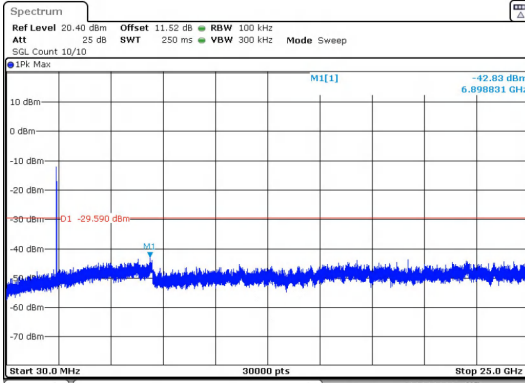


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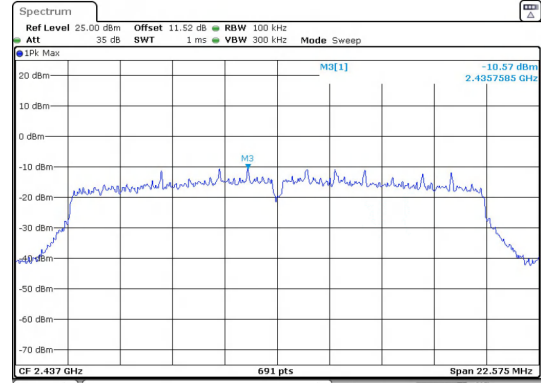
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0





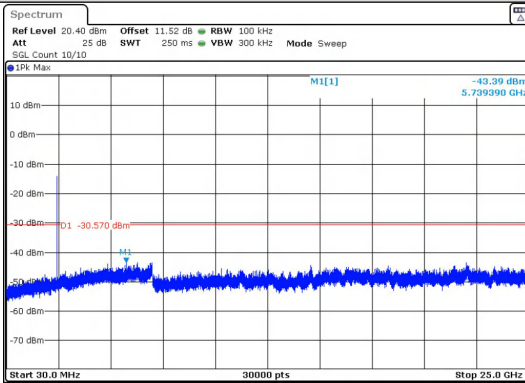
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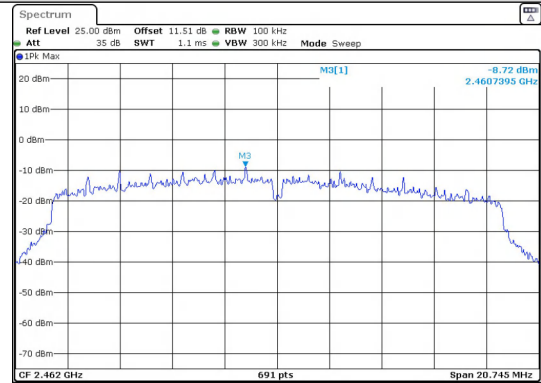
Date: 27,MAR,2025 09:34:28

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



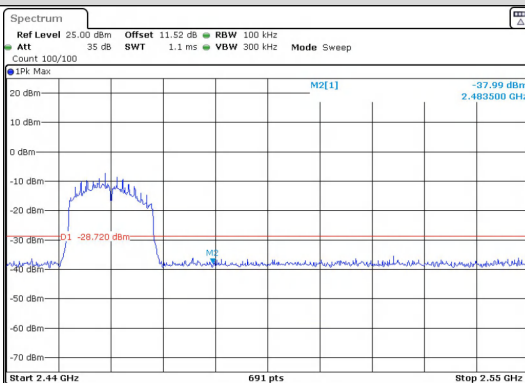
Date: 27,MAR,2025 09:34:53



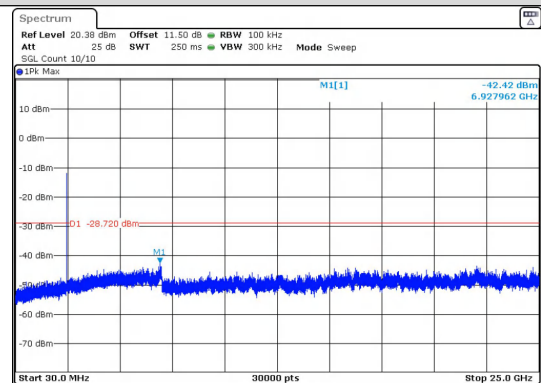
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Date: 27,MAR,2025 09:38:00



Date: 27,MAR,2025 09:38:23

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-----