

Appendix Report

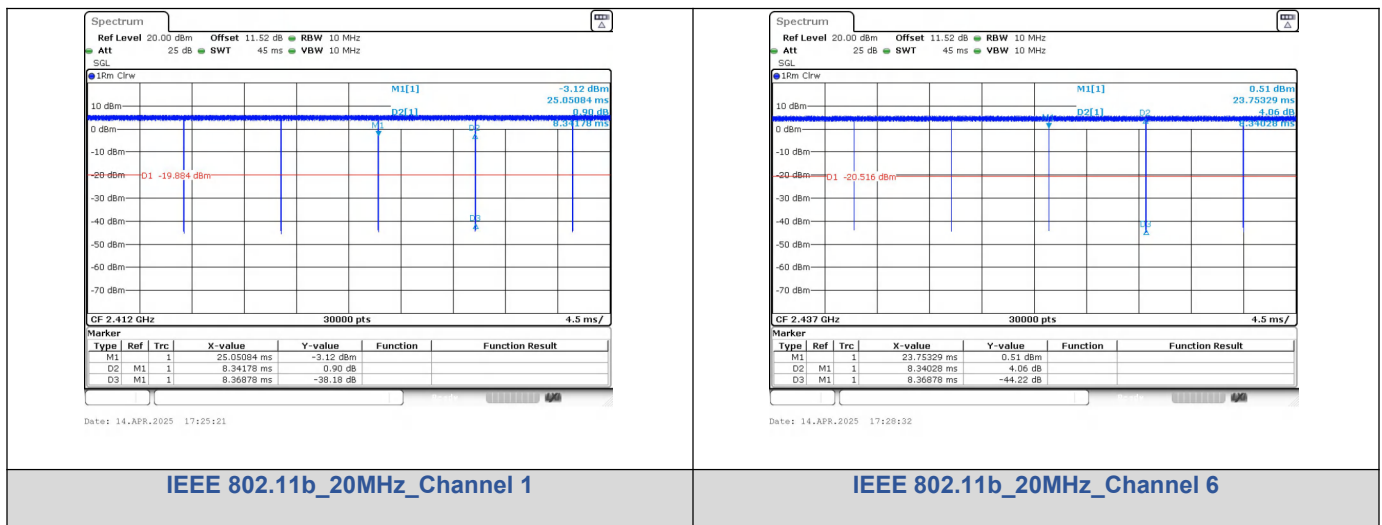
Project No.:	CISR250411102
Test Engineer:	James Wang
Supervised by:	Rory Huang

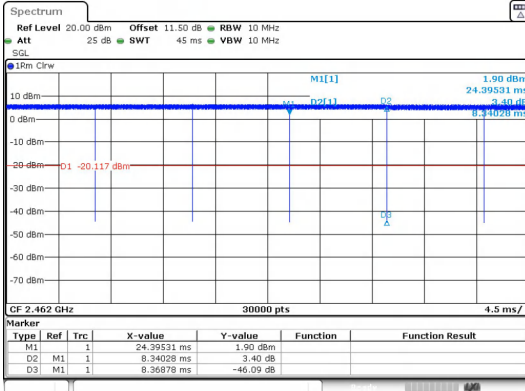
Duty Cycle

Test Result

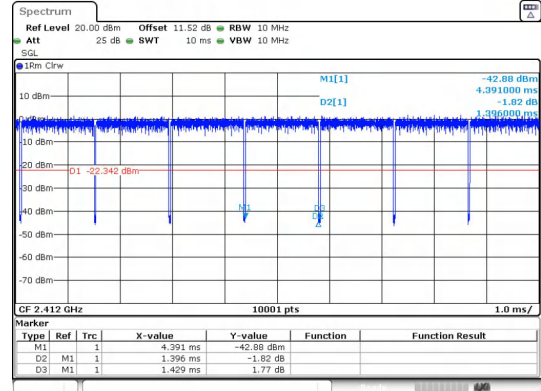
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.342	8.369	99.68	0.9968	0.0139	0.1199
		6		8.340	8.369	99.66	0.9966	0.0148	0.1199
		11		8.340	8.369	99.66	0.9966	0.0148	0.1199
IEEE 802.11g	1	1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.395	1.429	97.62	0.9762	0.1046	0.7168
		11		1.396	1.430	97.62	0.9762	0.1046	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





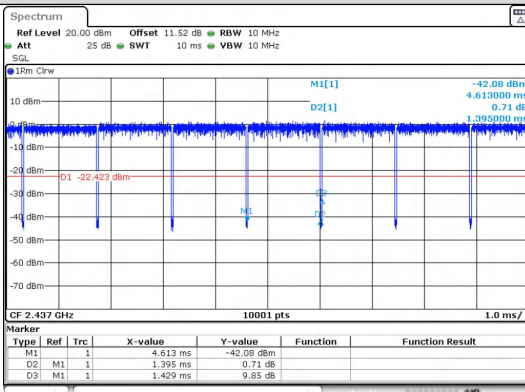
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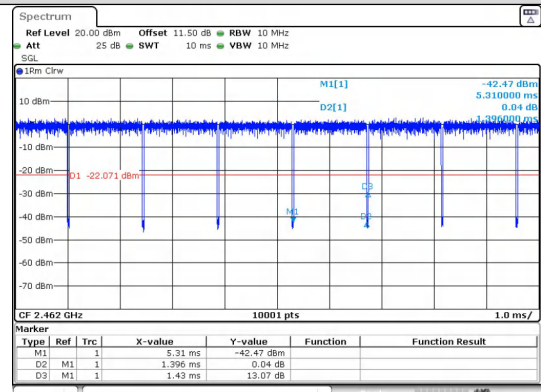
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IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



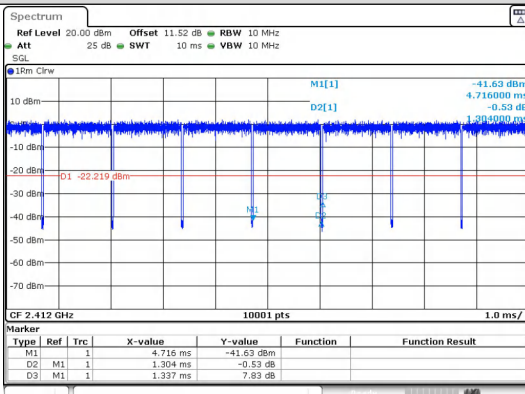
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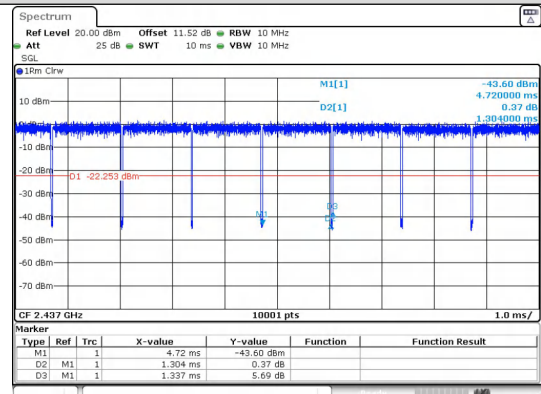
Date: 14.APR.2025 18:04:30

IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



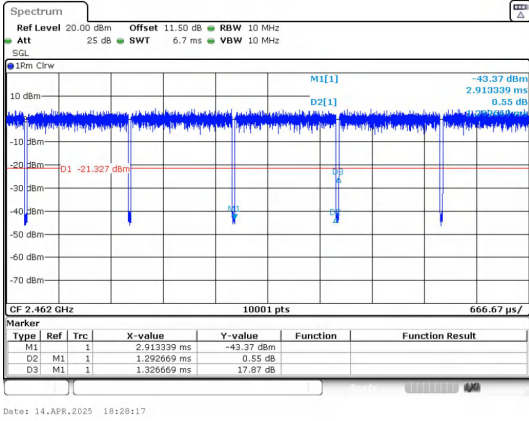
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Date: 14.APR.2025 18:25:34

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6



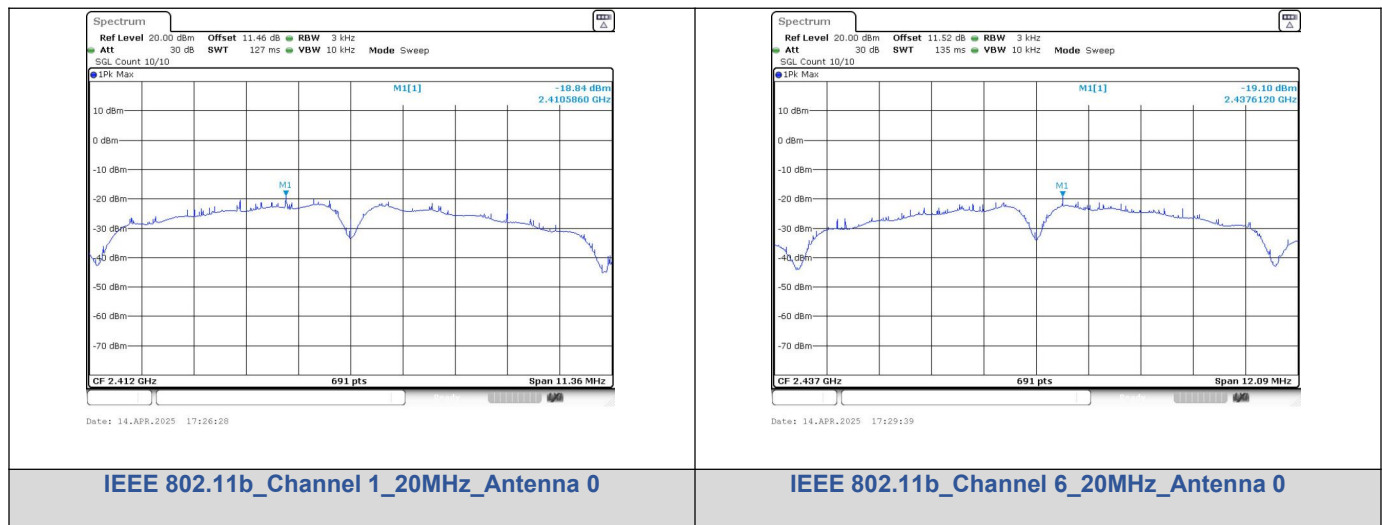
IEEE 802.11n_20MHz_Channel 11

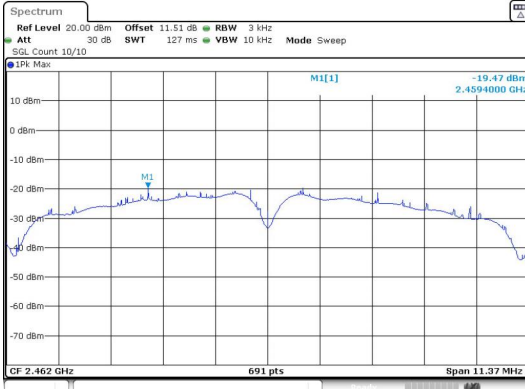
Power Spectral Density

Test Result

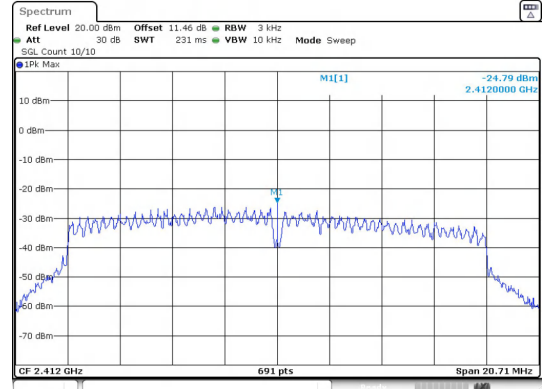
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-18.840	≤8	PASS
	6	-19.100		PASS
	11	-19.470		PASS
IEEE 802.11g	1	-24.790		PASS
	6	-26.790		PASS
	11	-26.350		PASS
IEEE 802.11n_20	1	-23.680		PASS
	6	-26.000		PASS
	11	-23.650		PASS

Test Graphs





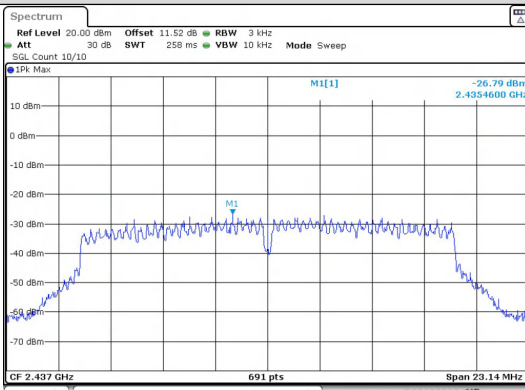
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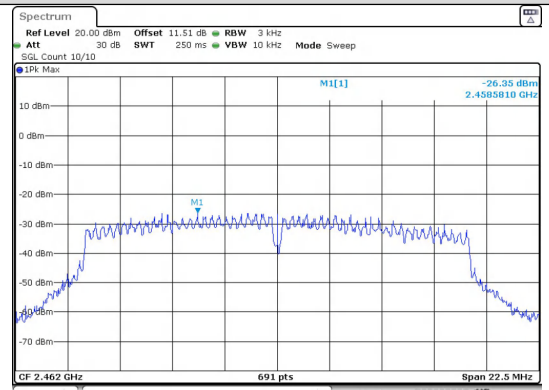
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IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



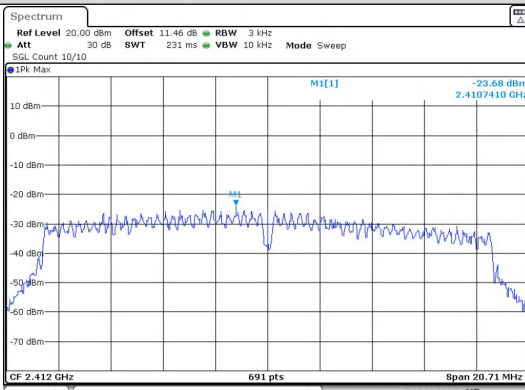
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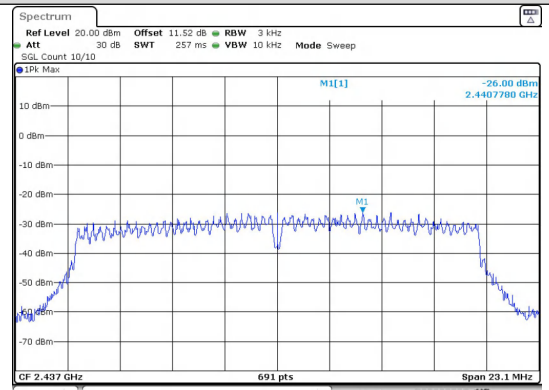
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IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



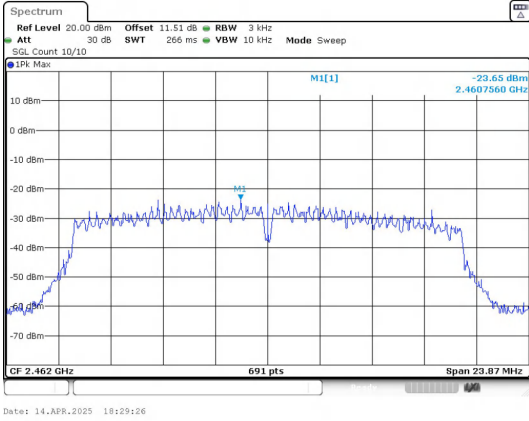
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Date: 14.APR.2025 18:26:43

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

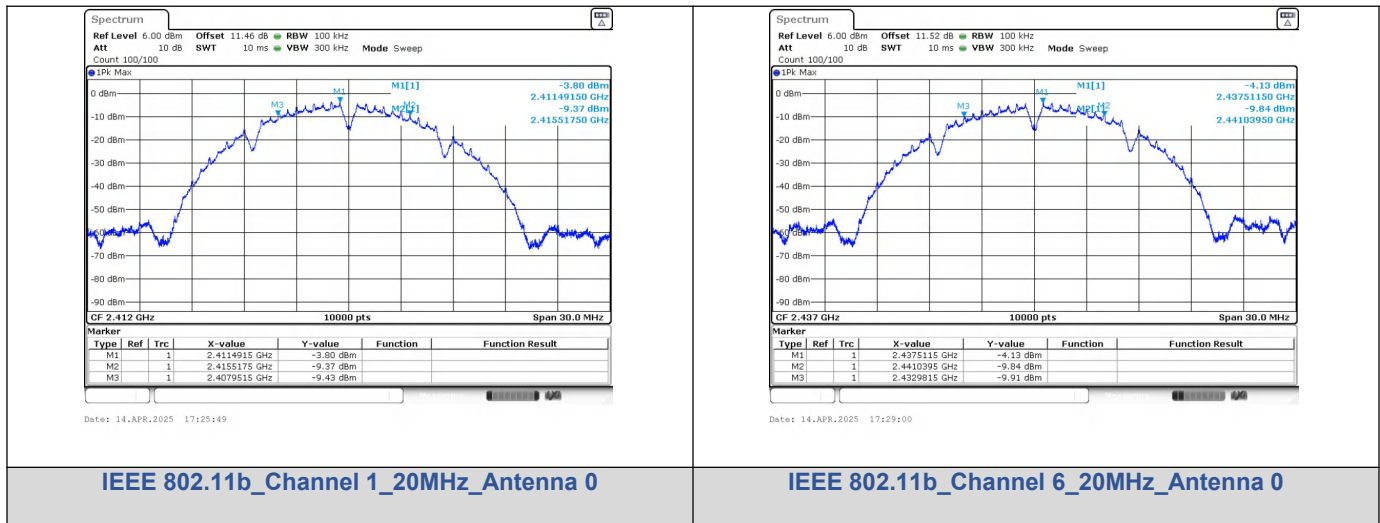
Mode	Channel	Ant. 0 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.22	N/A	≤30	PASS
	6	7.99	N/A	≤30	PASS
	11	8.43	N/A	≤30	PASS
IEEE 802.11g	1	7.74	N/A	≤30	PASS
	6	7.81	N/A	≤30	PASS
	11	8.60	N/A	≤30	PASS
IEEE 802.11n_20	1	8.61	N/A	≤30	PASS
	6	9.21	N/A	≤30	PASS
	11	9.86	N/A	≤30	PASS

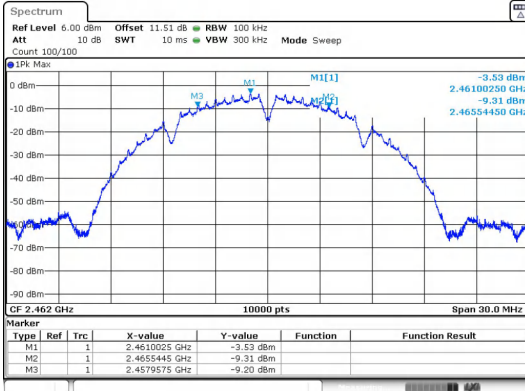
6dB Bandwidth

Test Result

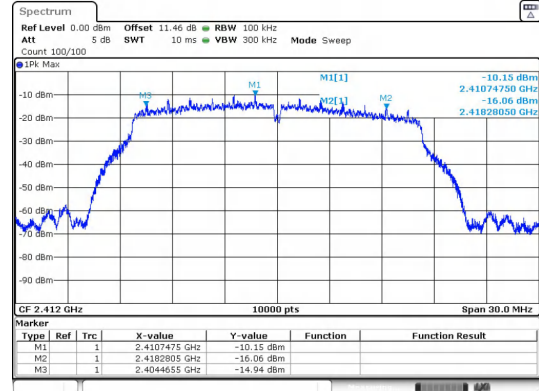
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.570	≥0.5	PASS
	6		2437	8.060		PASS
	11		2462	7.580		PASS
IEEE 802.11g	1		2412	13.81		PASS
	6		2437	15.43		PASS
	11		2462	15.00		PASS
IEEE 802.11n_20	1		2412	13.81		PASS
	6		2437	15.40		PASS
	11		2462	15.91		PASS

Test Graphs



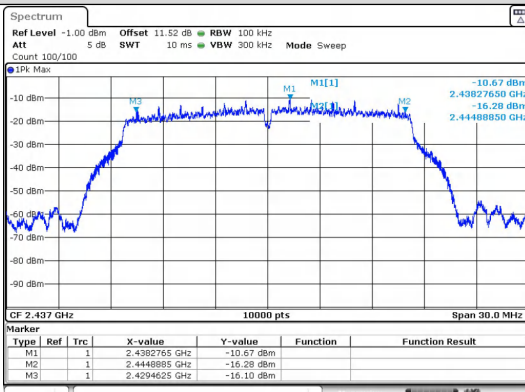


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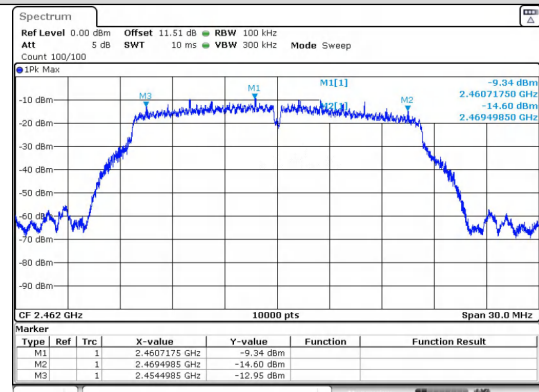
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



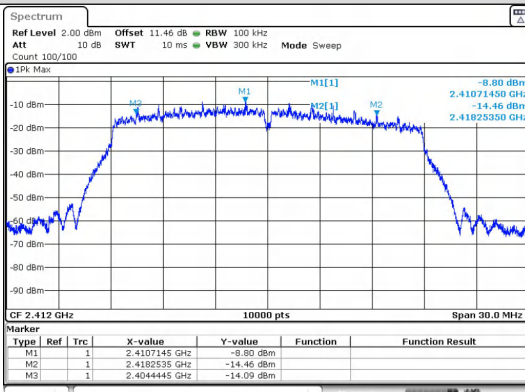
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IEEE 802.11g_Channel 1_20MHz_Antenna 0



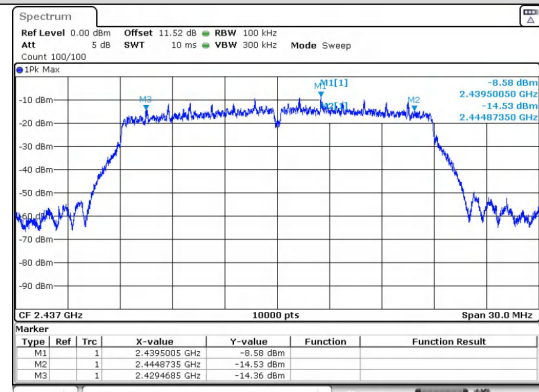
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



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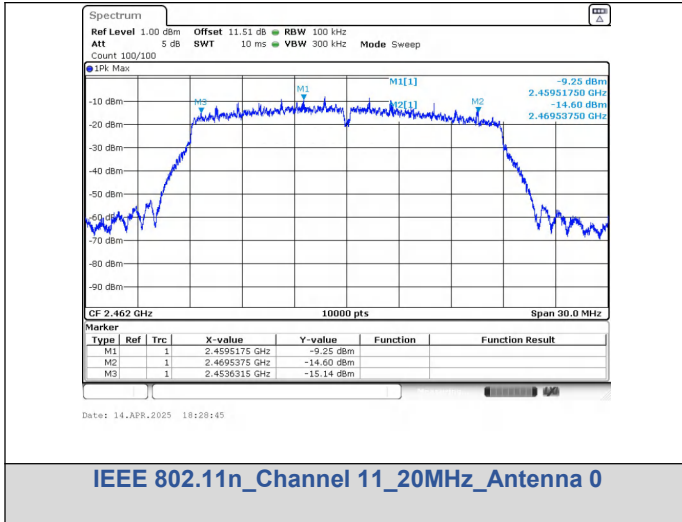
IEEE 802.11g_Channel 11_20MHz_Antenna 0



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IEEE 802.11n_Channel 1_20MHz_Antenna 0

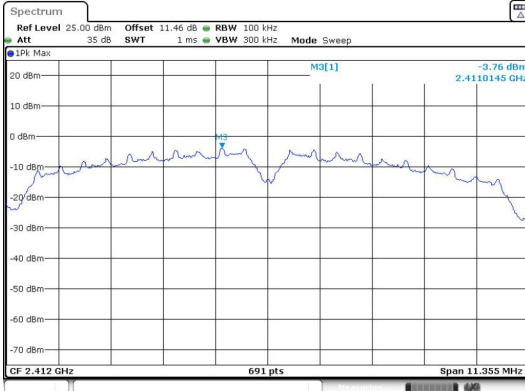
IEEE 802.11n_Channel 6_20MHz_Antenna 0



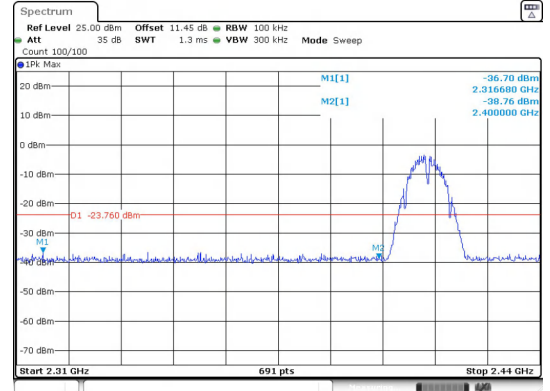
Conducted Out Of Band Emission Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2316.68	-36.701	-23.76	-12.941	PASS
			2400.00	-38.760	-23.76	-15.000	PASS
			6962.90	-43.154	-23.76	-19.394	PASS
	6		6977.90	-42.457	-24.2	-18.257	PASS
	11		2483.50	-38.380	-23.64	-14.740	PASS
			22056.5	-42.818	-23.64	-19.178	PASS
IEEE 802.11g	1		2364.65	-37.125	-29.96	-7.165	PASS
			2400.00	-38.500	-29.96	-8.540	PASS
			6947.90	-42.803	-29.96	-12.843	PASS
	6		6288.73	-42.654	-29.29	-13.364	PASS
	11		2483.50	-37.340	-29.1	-8.240	PASS
			14533.0	-43.494	-29.1	-14.394	PASS
IEEE 802.11n_20	1		2382.90	-36.932	-28.09	-8.842	PASS
			2400.00	-37.920	-28.09	-9.830	PASS
			6941.30	-43.054	-28.09	-14.964	PASS
	6		22042.3	-42.909	-30.16	-12.749	PASS
	11		2483.50	-38.600	-28.4	-10.200	PASS
			6912.98	-42.241	-28.4	-13.841	PASS

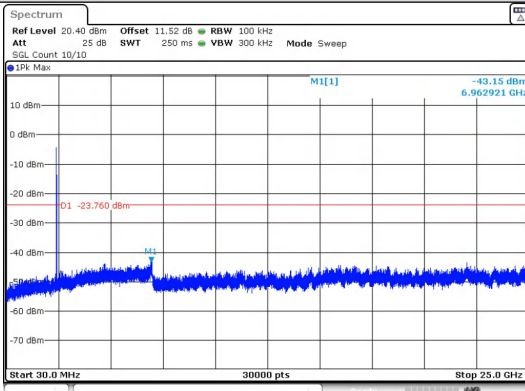
Test Graphs



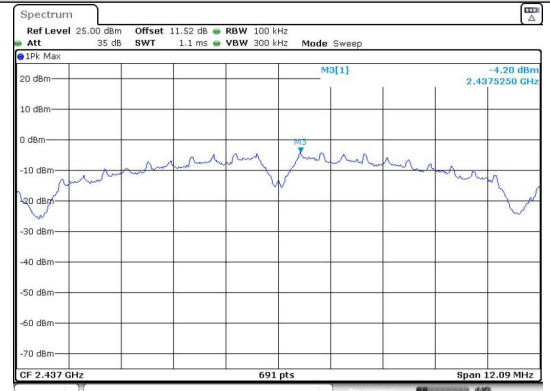
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



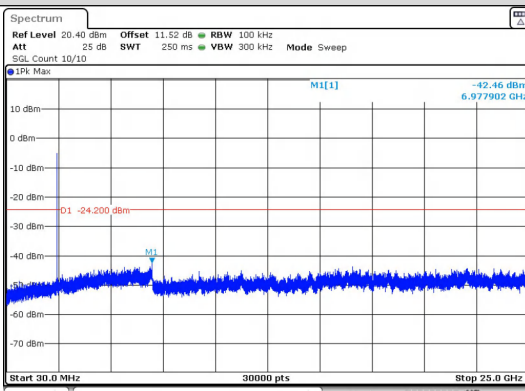
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



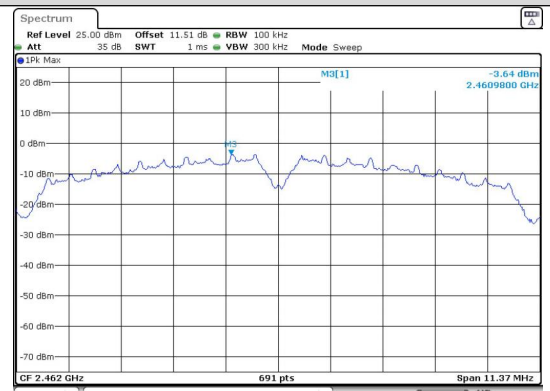
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



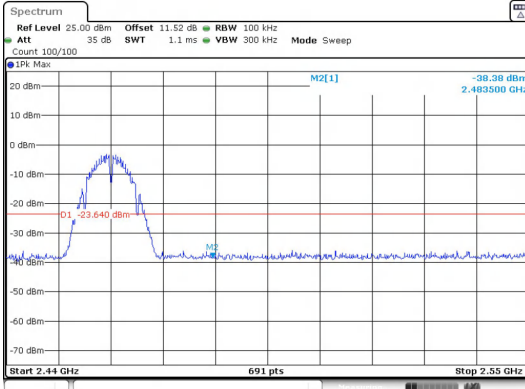
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



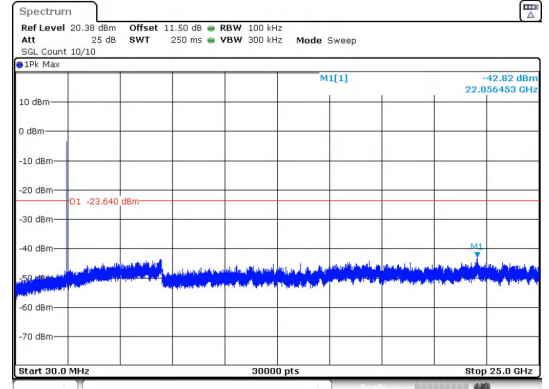
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



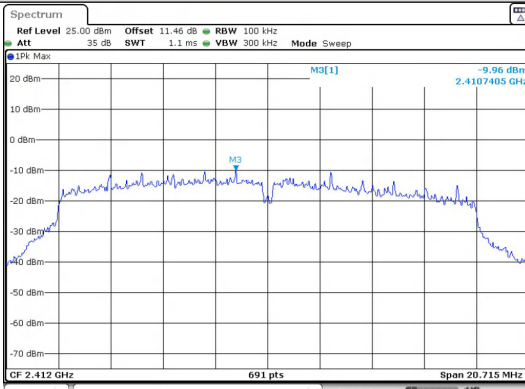
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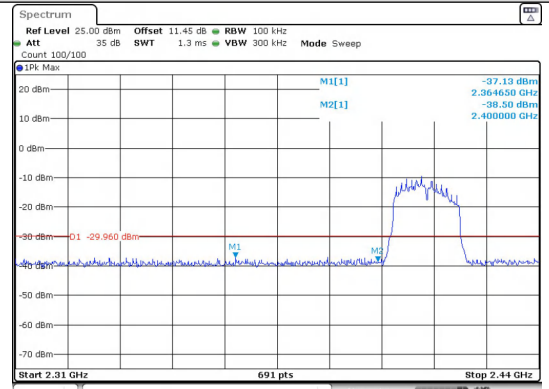
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Out Of Band Emission IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz IEEE 802.11b_Channel 11_20MHz_Antenna 0



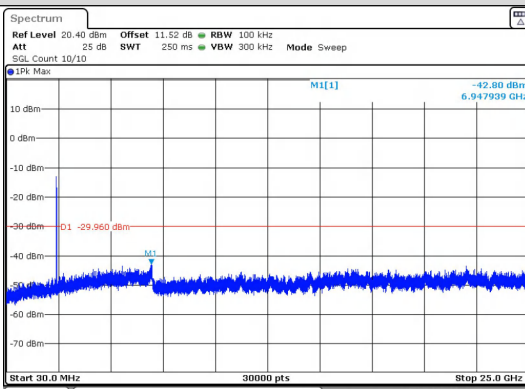
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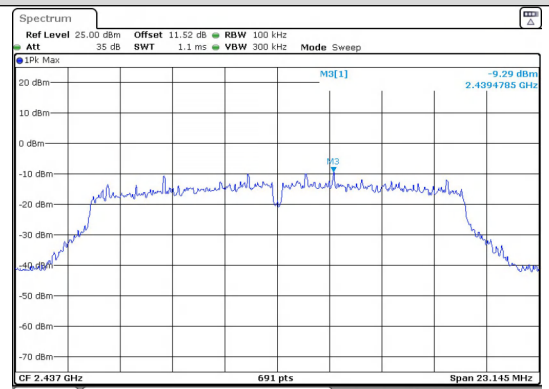
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In-Band Reference Level IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission IEEE 802.11g_Channel 1_20MHz_Antenna 0



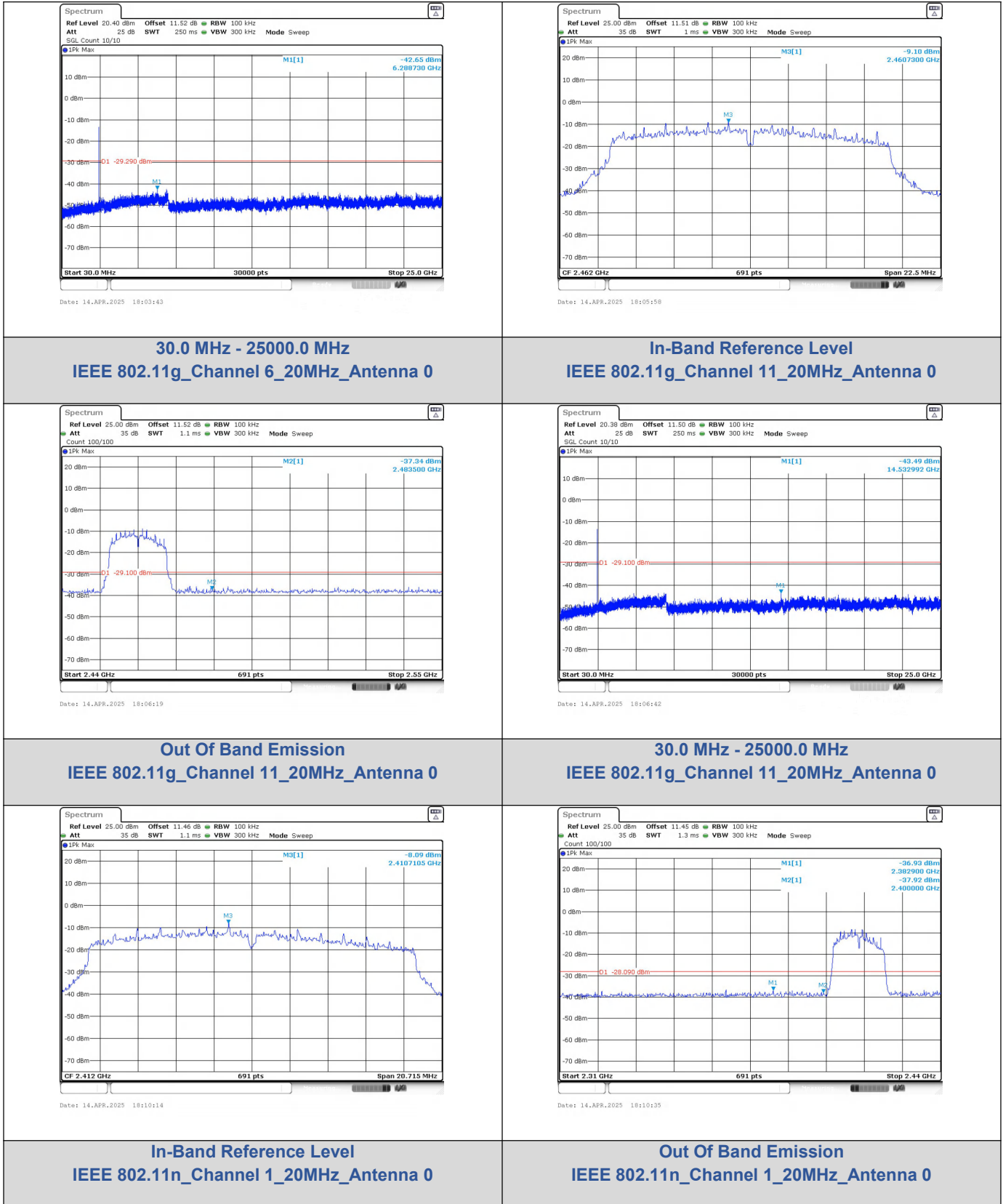
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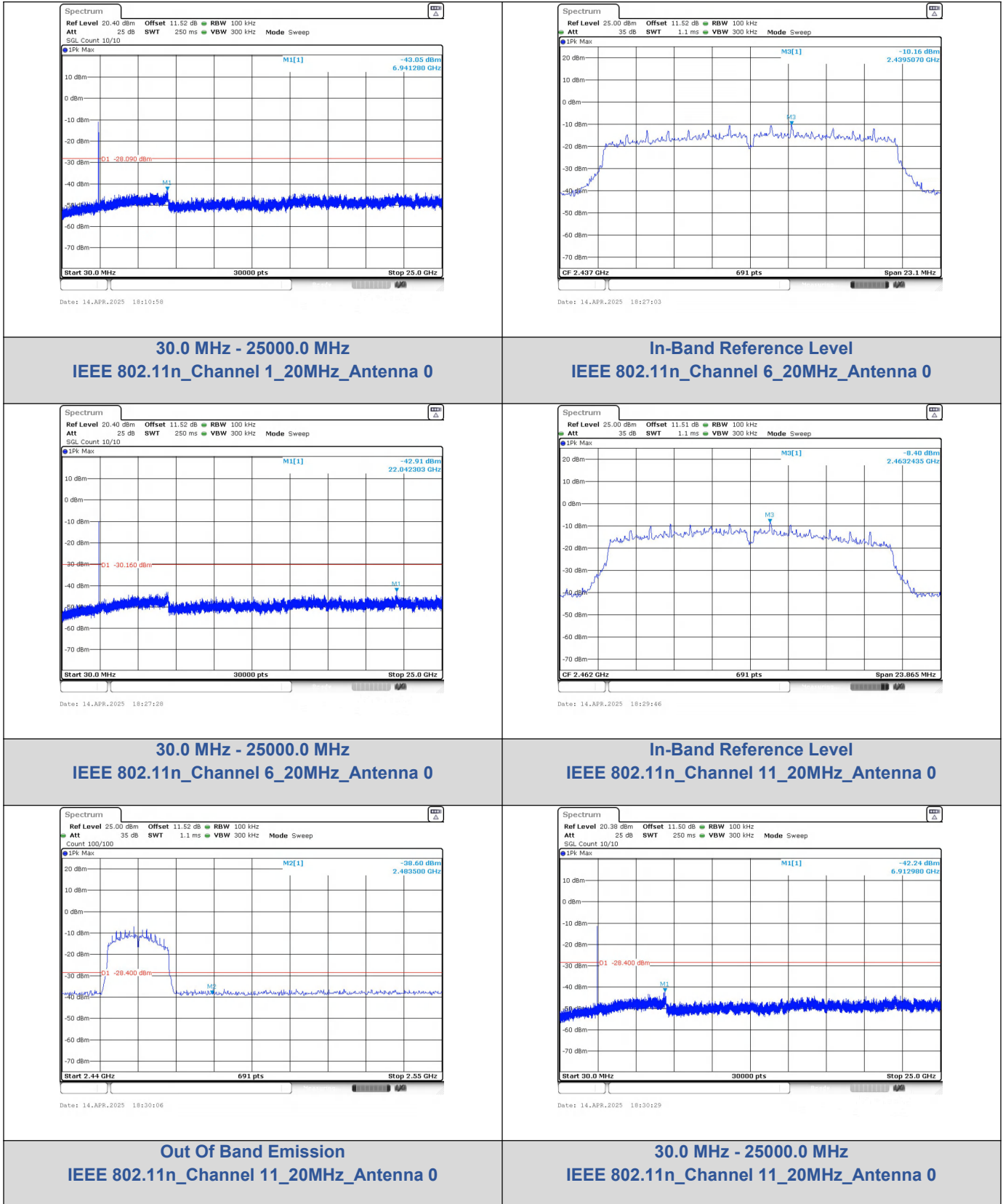


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30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 1_20MHz_Antenna 0

In-Band Reference Level IEEE 802.11g_Channel 6_20MHz_Antenna 0





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