

Appendix Report

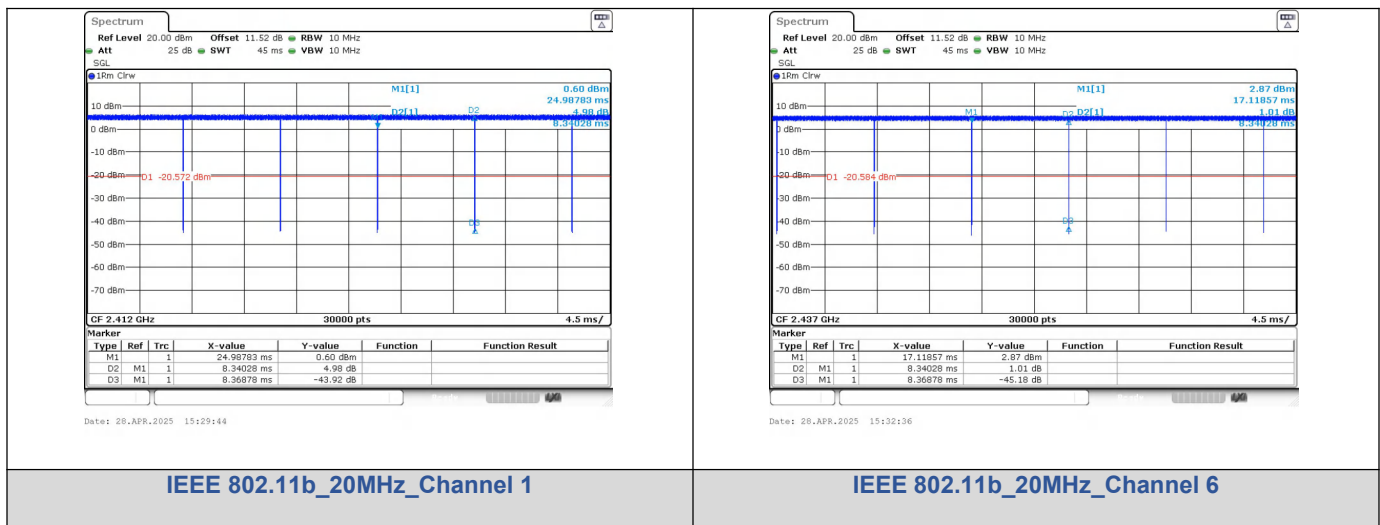
Project No.:	CISR250425276
Test Engineer:	James Wang
Supervised by:	Rory Huang

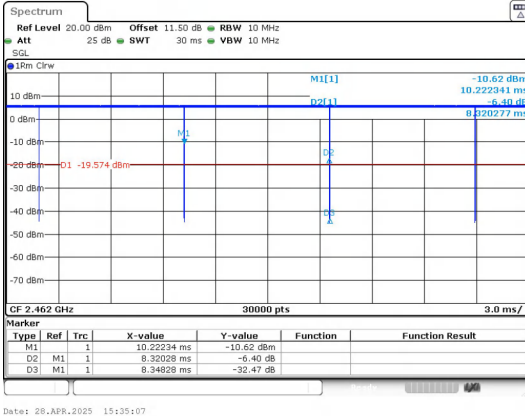
Duty Cycle

Test Result

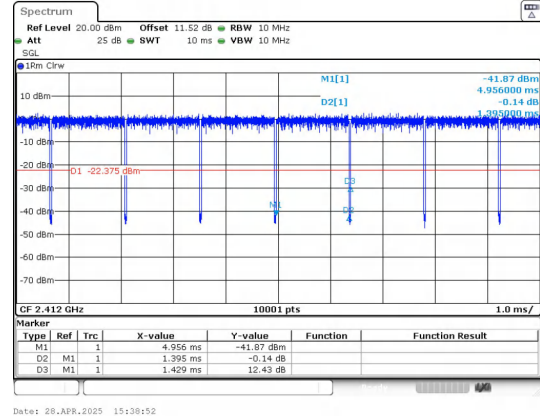
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.340	8.369	99.66	0.9966	0.0148	0.1199
		6		8.340	8.369	99.66	0.9966	0.0148	0.1199
		11		8.320	8.348	99.66	0.9966	0.0148	0.1202
IEEE 802.11g		1		1.395	1.429	97.62	0.9762	0.1046	0.7168
		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		1.293	1.327	97.44	0.9744	0.1126	0.7734
		11		1.304	1.337	97.53	0.9753	0.1086	0.7669

Test Graphs

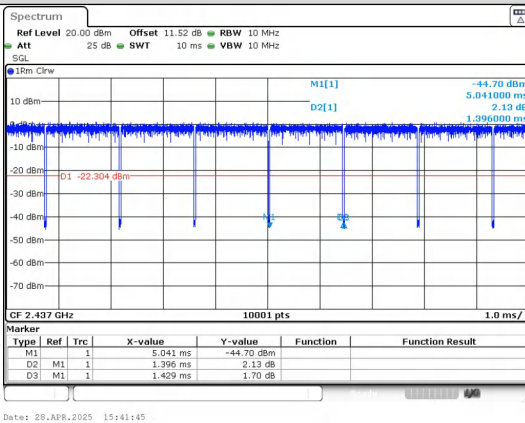




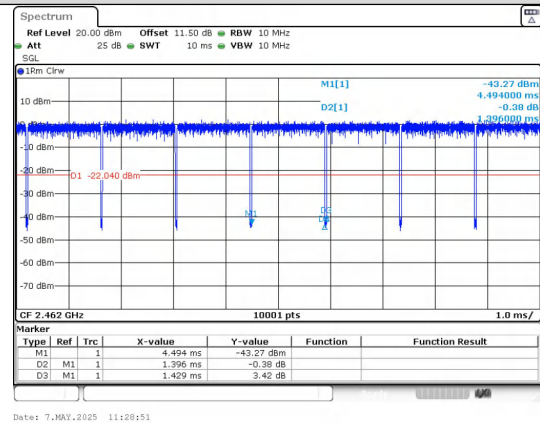
IEEE 802.11b_20MHz_Channel 11



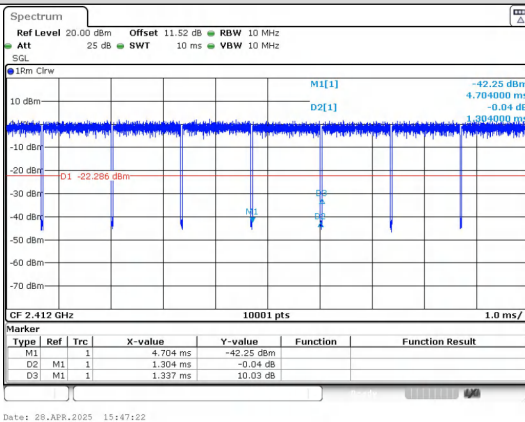
IEEE 802.11g_20MHz_Channel 1



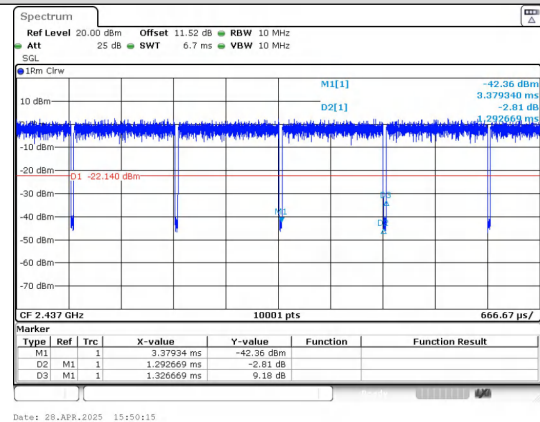
IEEE 802.11g_20MHz_Channel 6



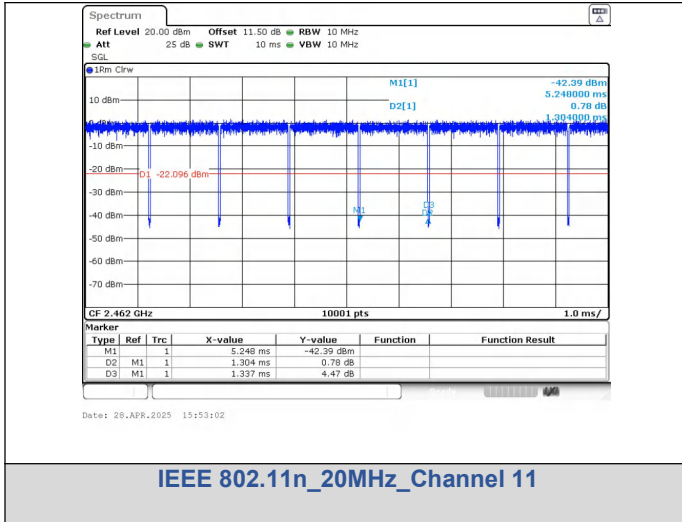
IEEE 802.11g_20MHz_Channel 11



IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 6

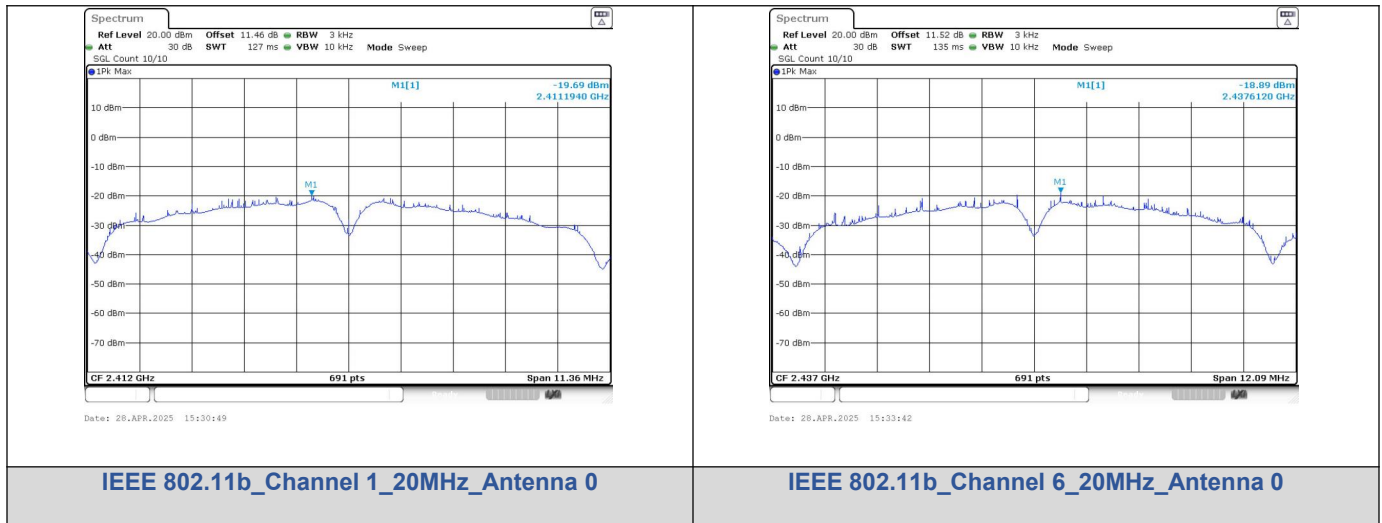


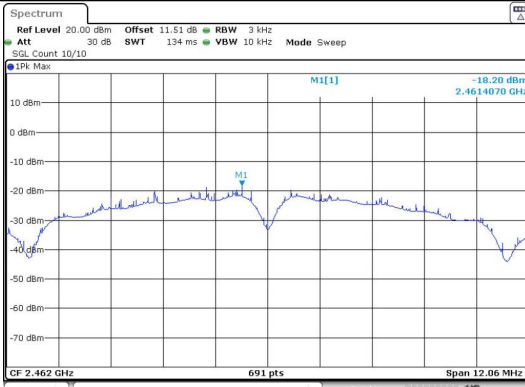
Power Spectral Density

Test Result

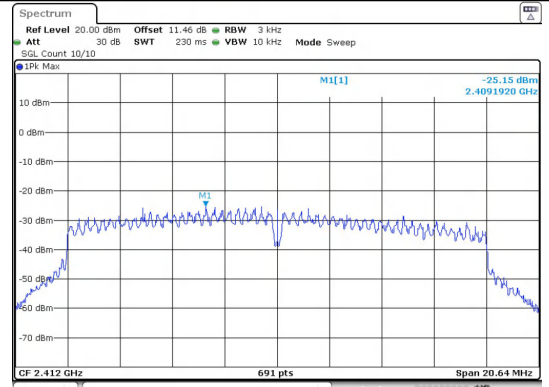
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-19.690	≤8	PASS
	6	-18.890		PASS
	11	-18.200		PASS
IEEE 802.11g	1	-25.150		PASS
	6	-25.020		PASS
	11	-24.200		PASS
IEEE 802.11n_20	1	-25.920		PASS
	6	-26.270		PASS
	11	-25.150		PASS

Test Graphs





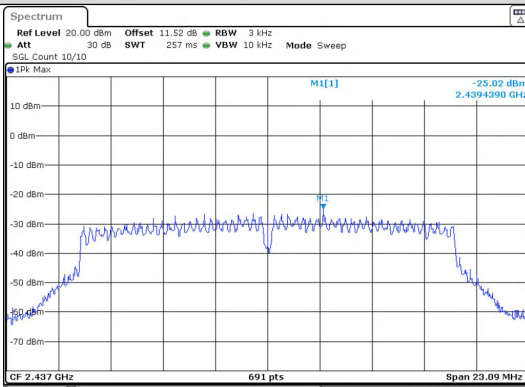
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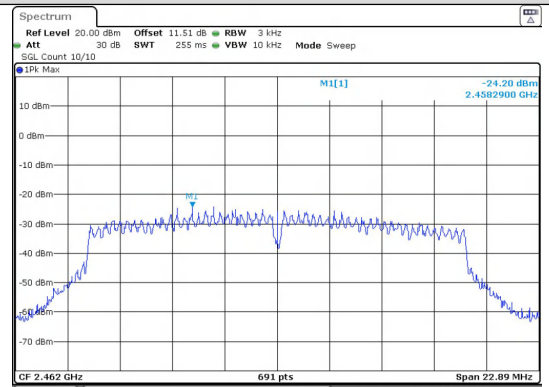
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IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



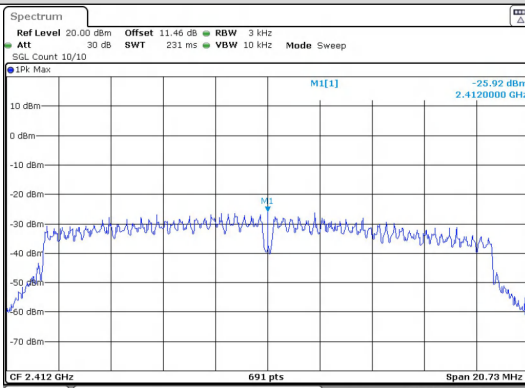
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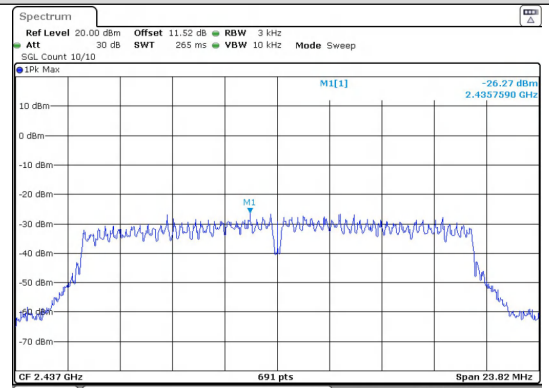
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IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



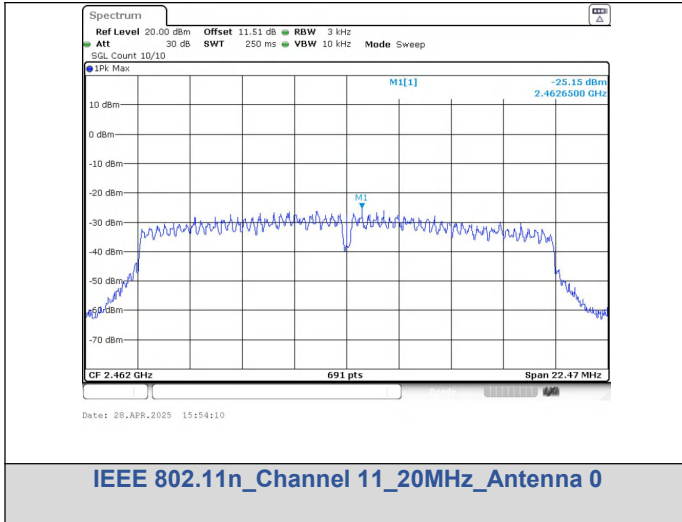
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Date: 28.APR.2025 15:51:23

IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



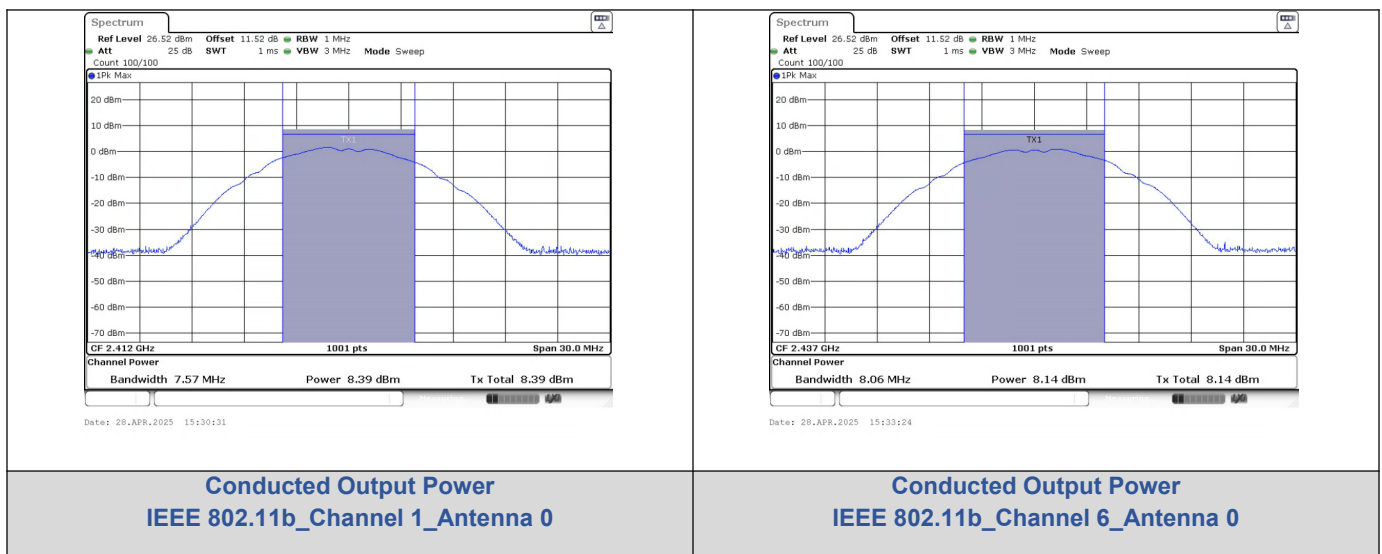
Conducted Output Power

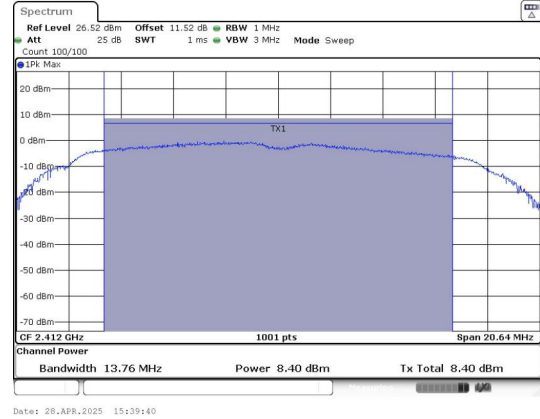
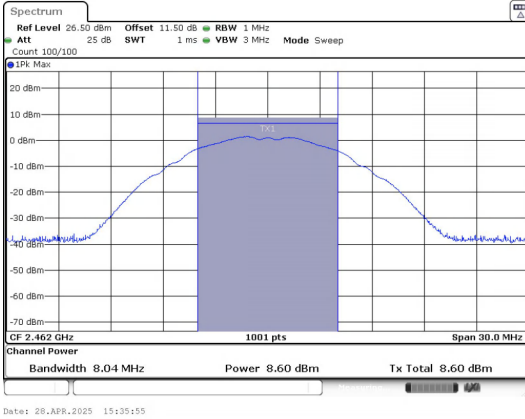
Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.39	≤30	PASS
	6	8.14	≤30	PASS
	11	8.60	≤30	PASS
IEEE 802.11g	1	8.40	≤30	PASS
	6	8.15	≤30	PASS
	11	7.32	≤30	PASS
IEEE 802.11n_20	1	7.65	≤30	PASS
	6	7.77	≤30	PASS
	11	8.35	≤30	PASS

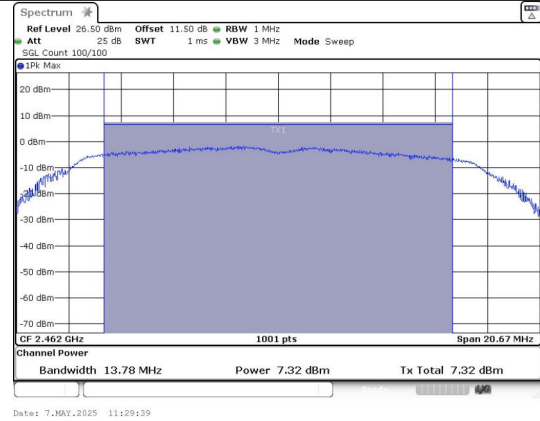
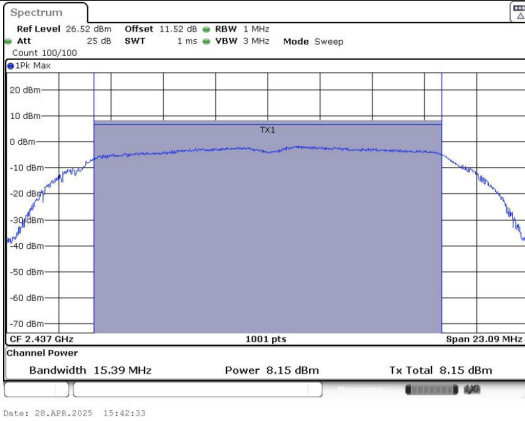
Test Graphs





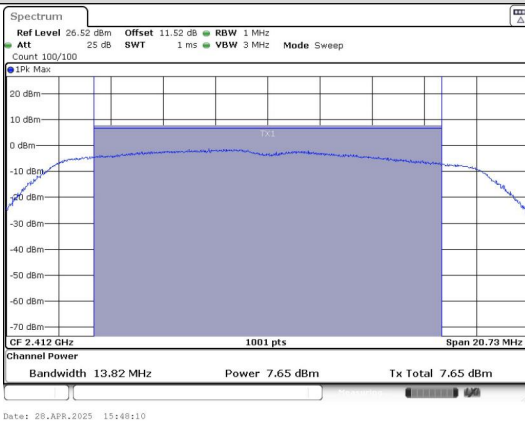
**Conducted Output Power
IEEE 802.11b_Channel 1_Antenna 0**

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



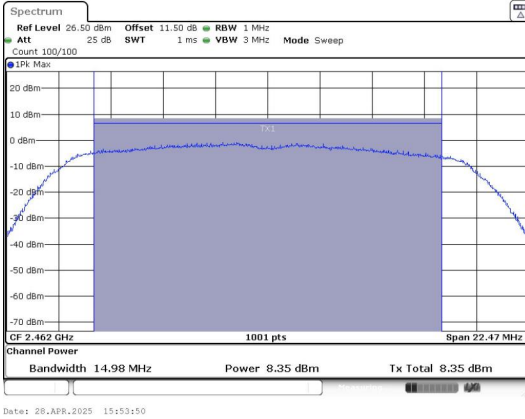
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**

**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**



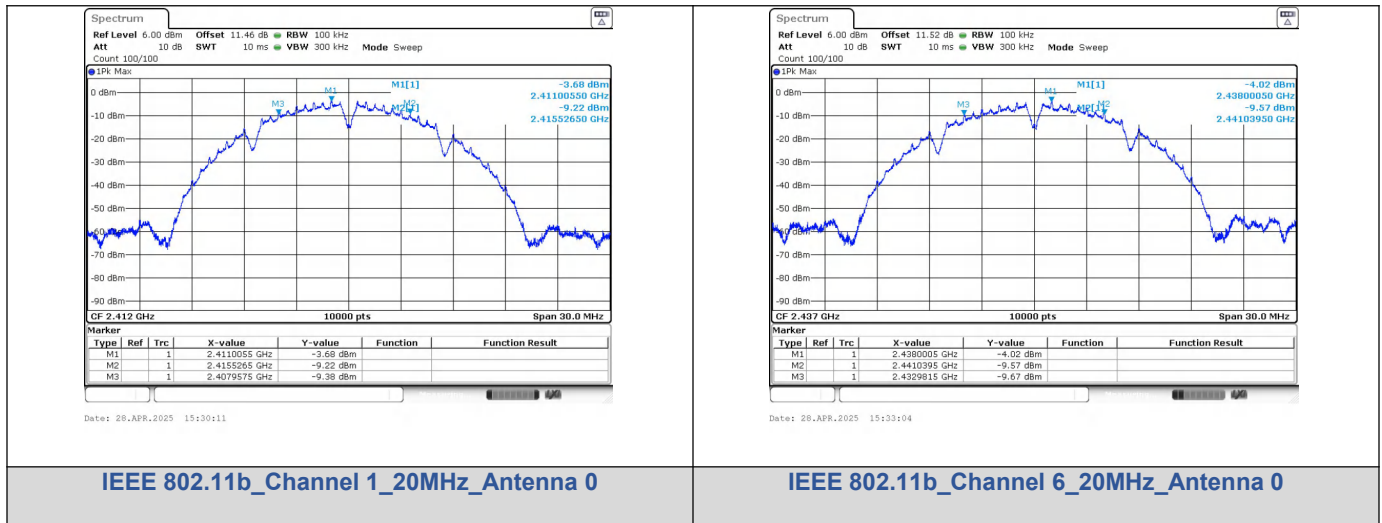
Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0

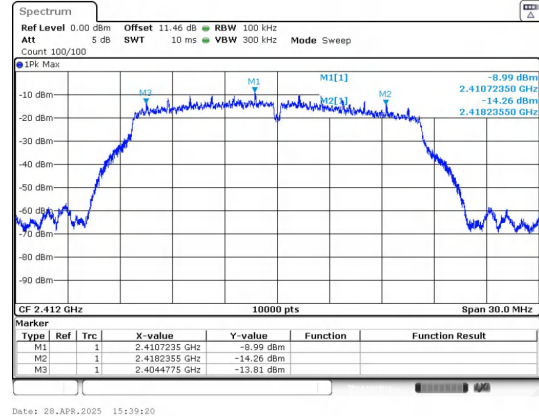
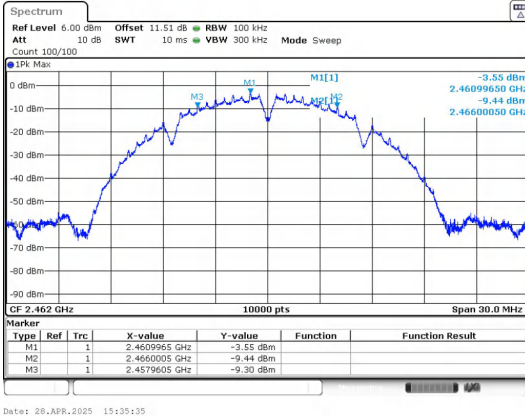
6dB Bandwidth

Test Result

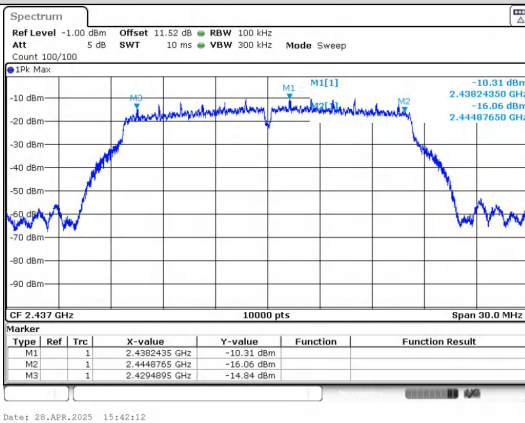
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.570	≥0.5	PASS
	6		2437	8.060		PASS
	11		2462	8.040		PASS
IEEE 802.11g	1		2412	13.76		PASS
	6		2437	15.39		PASS
	11		2462	13.78		PASS
IEEE 802.11n_20	1		2412	13.82		PASS
	6		2437	15.88		PASS
	11		2462	14.98		PASS

Test Graphs

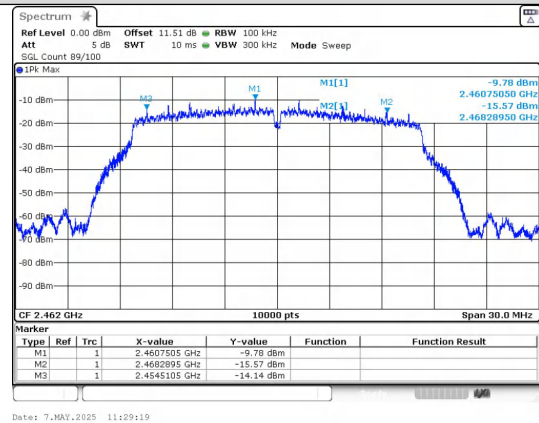




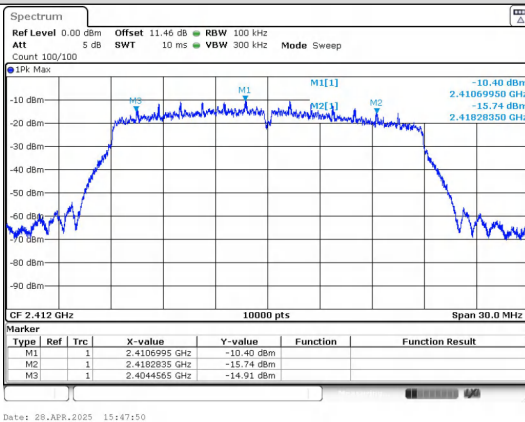
IEEE 802.11b_Channel 11_20MHz_Antenna 0



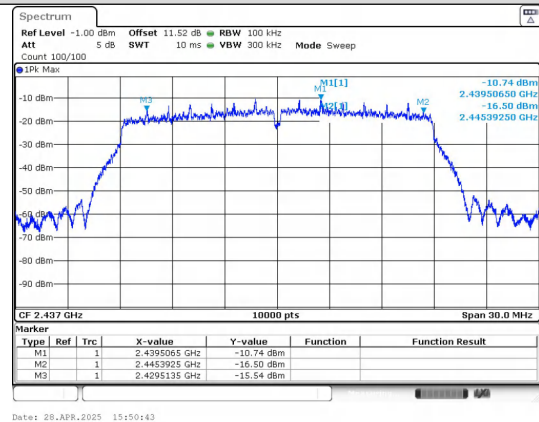
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

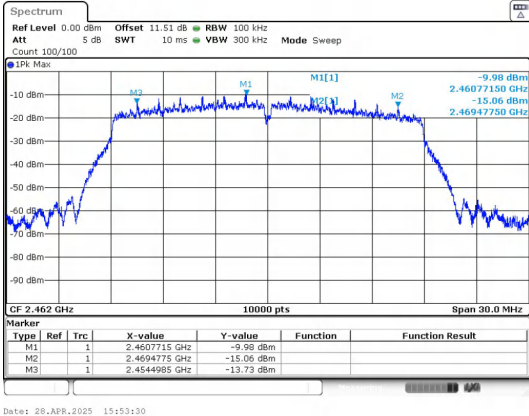


IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



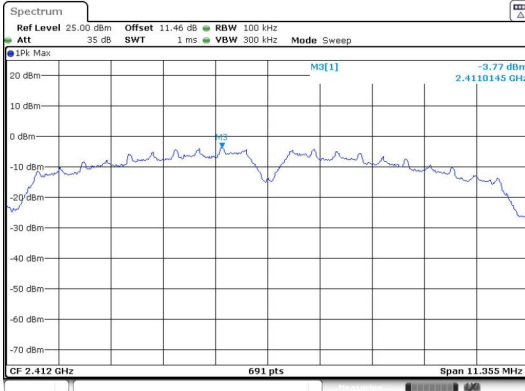
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

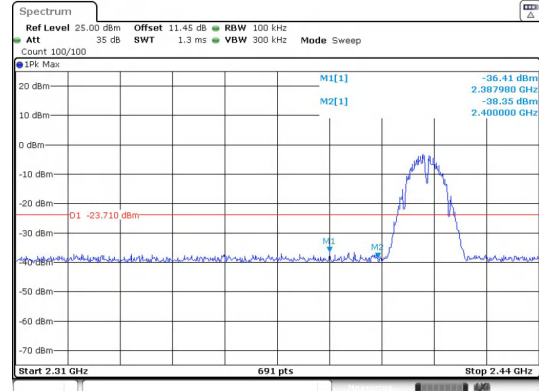
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2387.98	-36.407	-23.71	-12.697	PASS
			2400.00	-38.350	-23.71	-14.640	PASS
			6965.40	-43.825	-23.71	-20.115	PASS
	6		6879.69	-42.640	-24.12	-18.520	PASS
	11		2483.50	-38.550	-23.49	-15.060	PASS
			6924.63	-42.815	-23.49	-19.325	PASS
IEEE 802.11g	1		2359.57	-36.827	-29.43	-7.397	PASS
			2400.00	-38.830	-29.43	-9.400	PASS
			6974.60	-42.868	-29.43	-13.438	PASS
	6		6927.13	-42.987	-29.98	-13.007	PASS
	11		2483.50	-38.910	-28.92	-9.990	PASS
			22037.3	-43.466	-28.92	-14.546	PASS
IEEE 802.11n_20	1		2385.16	-36.870	-29.88	-6.990	PASS
			2400.00	-39.770	-29.88	-9.890	PASS
			6257.10	-43.268	-29.88	-13.388	PASS
	6		22054.0	-43.216	-31.31	-11.906	PASS
	11		2483.50	-38.080	-29.18	-8.900	PASS
			6907.15	-42.885	-29.18	-13.705	PASS

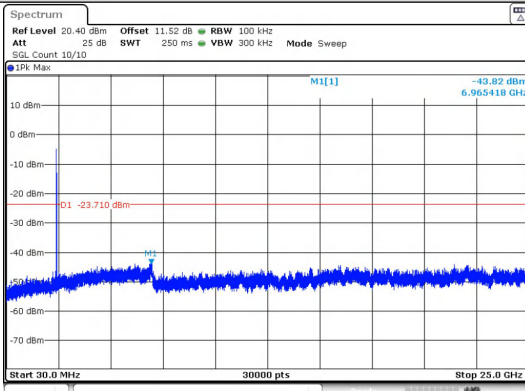
Test Graphs



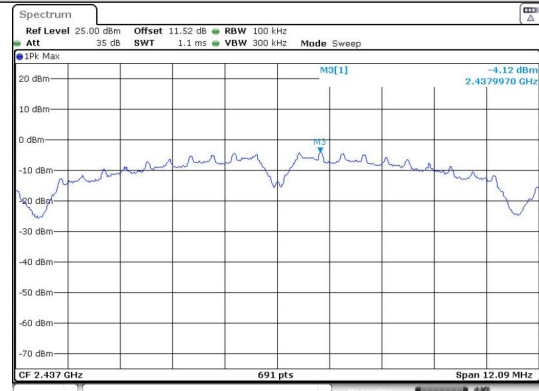
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



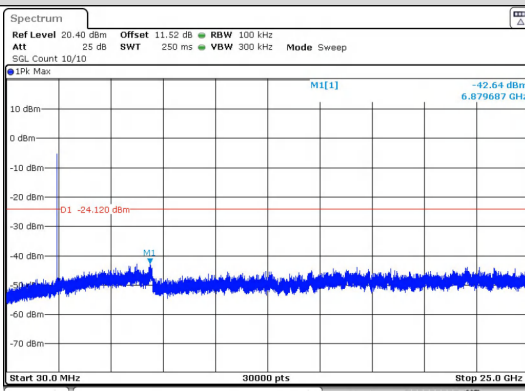
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



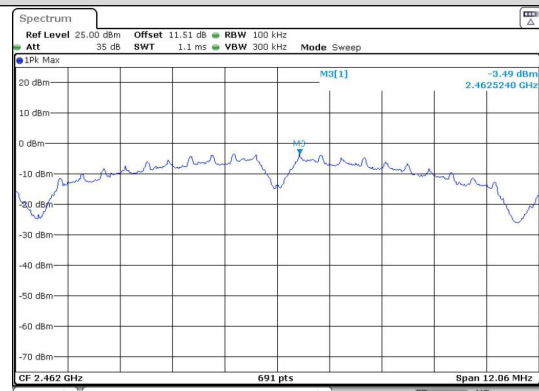
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



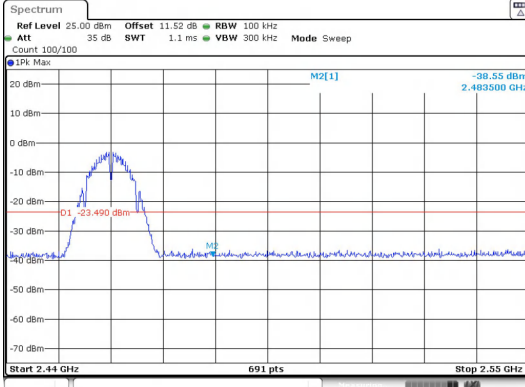
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



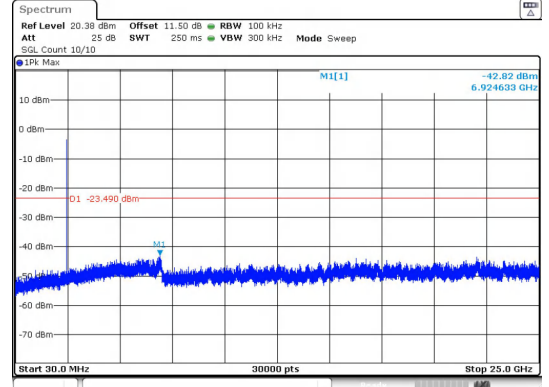
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



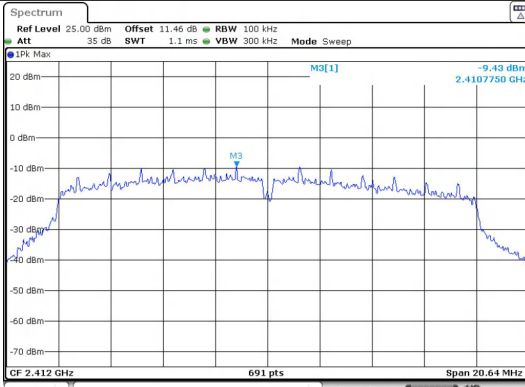
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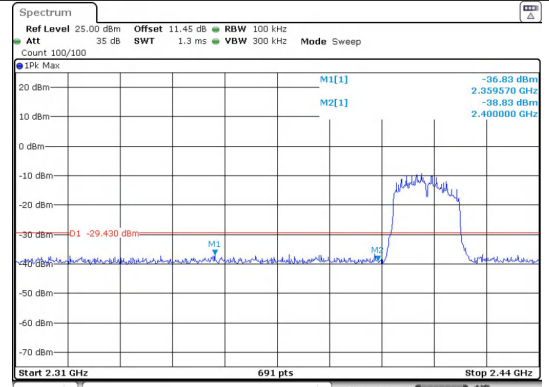
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Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



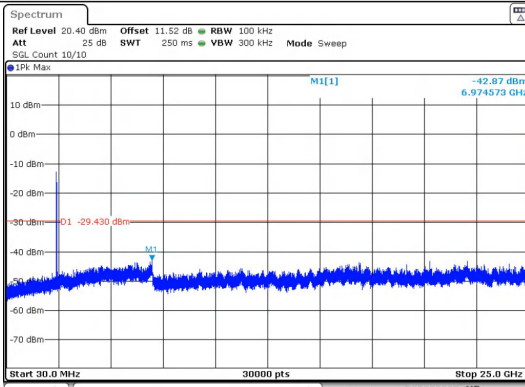
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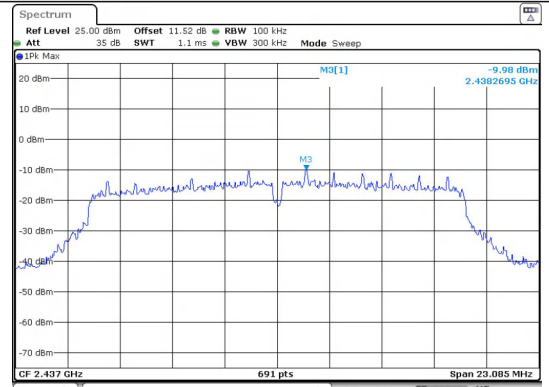
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In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



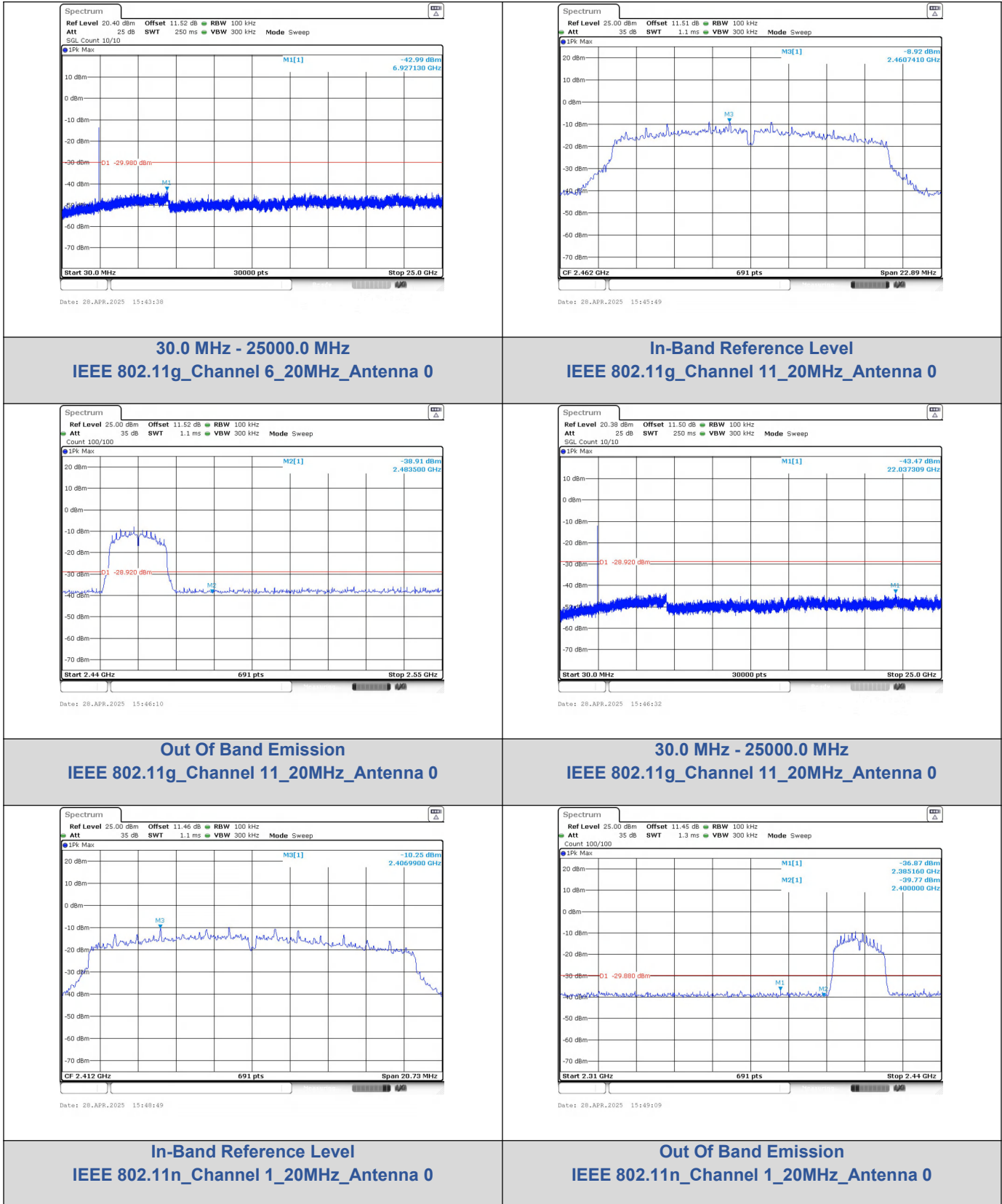
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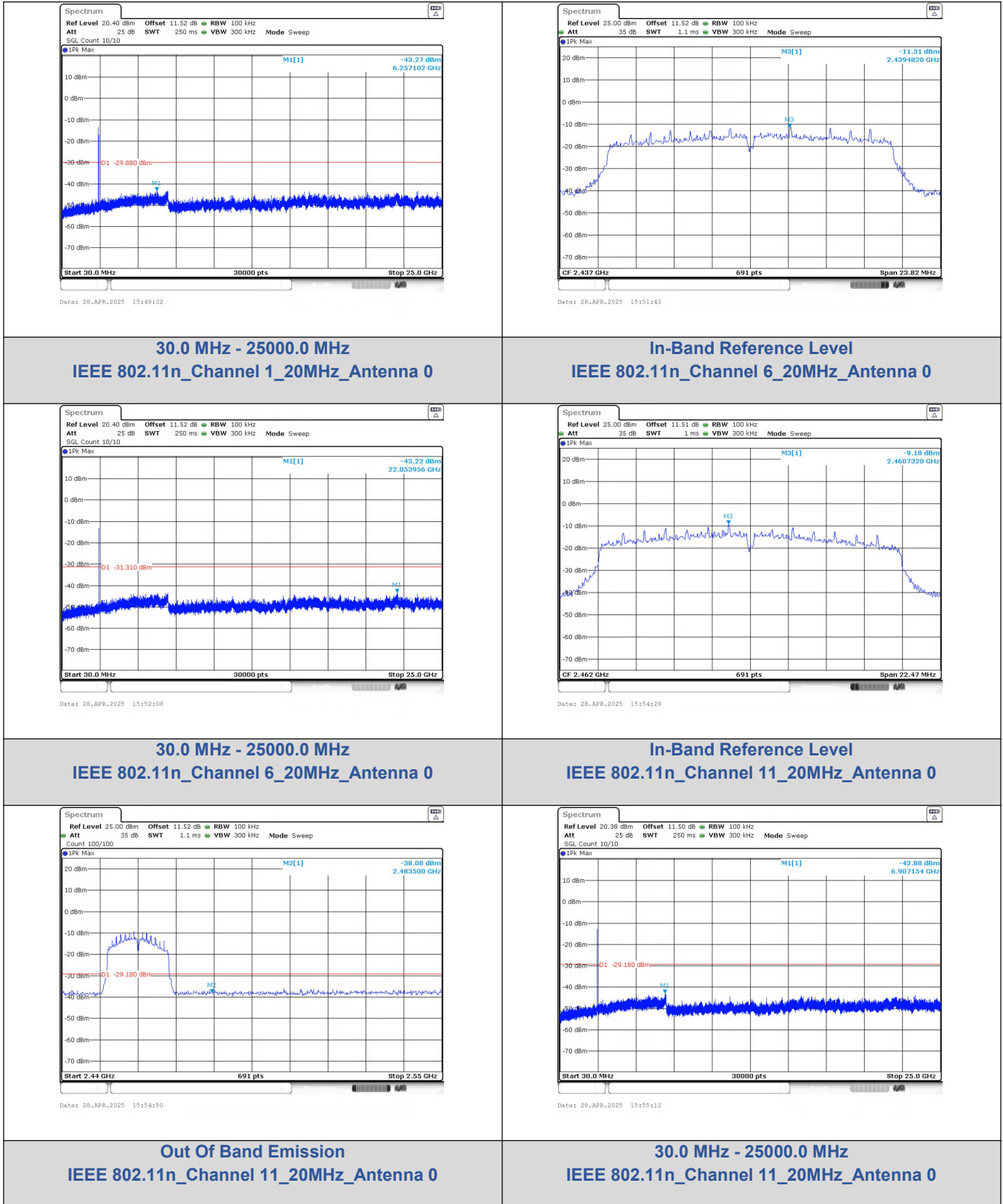


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30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0





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