

Appendix Report

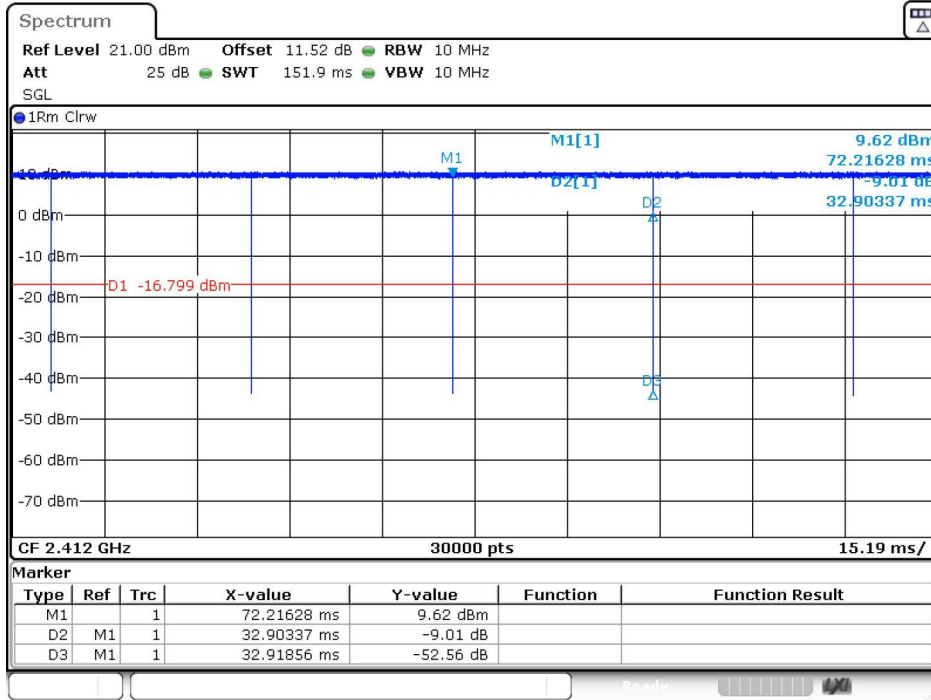
Report No.:	CISRR25010803902
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

Test Result

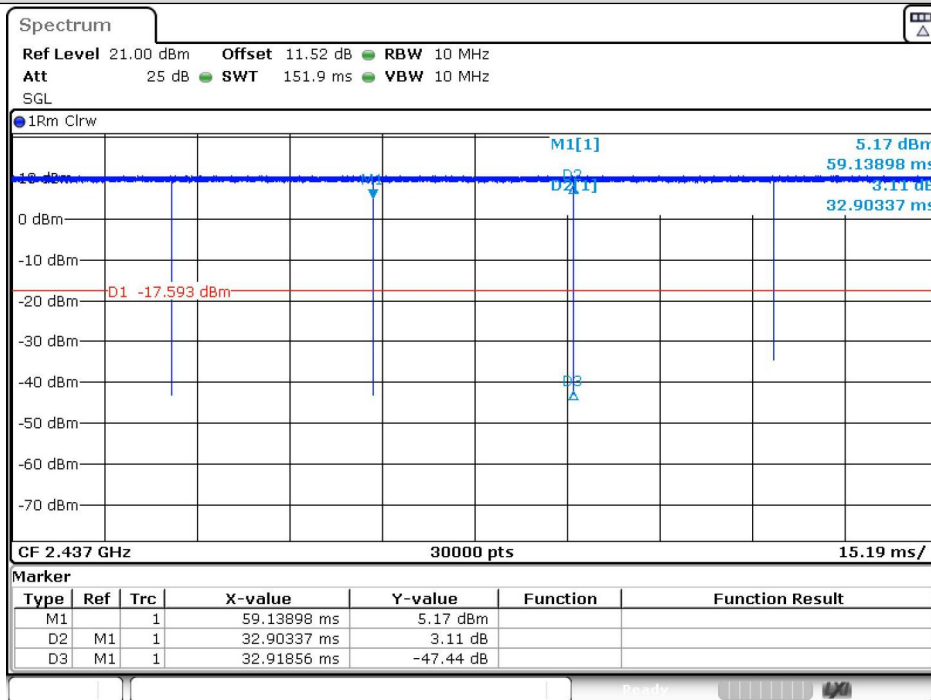
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	32.903	32.919	99.95	0.9995	0.0022	0.0304
		6		32.903	32.919	99.95	0.9995	0.0022	0.0304
		11		32.903	32.919	99.95	0.9995	0.0022	0.0304
IEEE 802.11g		1		5.495	5.513	99.67	0.9967	0.0144	0.1820
		6		5.495	5.512	99.67	0.9967	0.0144	0.1820
		11		5.492	5.510	99.67	0.9967	0.0144	0.1821
IEEE 802.11n_20		1		5.087	5.107	99.60	0.9960	0.0174	0.1966
		6		5.090	5.110	99.60	0.9960	0.0174	0.1965
		11		5.090	5.107	99.65	0.9965	0.0152	0.1965
IEEE 802.11n_40	MCS 0	3	2.472	2.495	99.08	0.9908	0.0401	0.4045	
		6	2.472	2.495	99.08	0.9908	0.0401	0.4045	
		9	2.472	2.495	99.08	0.9908	0.0401	0.4045	

Test Graphs



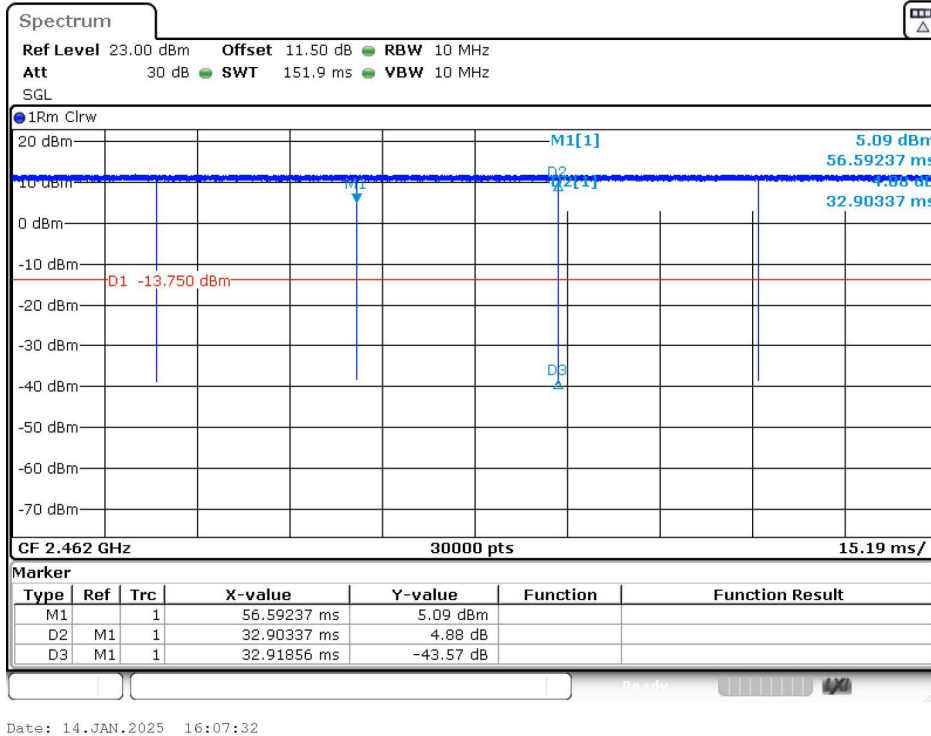
Date: 14.JAN.2025 16:01:24

IEEE 802.11b_20MHz_Channel 1

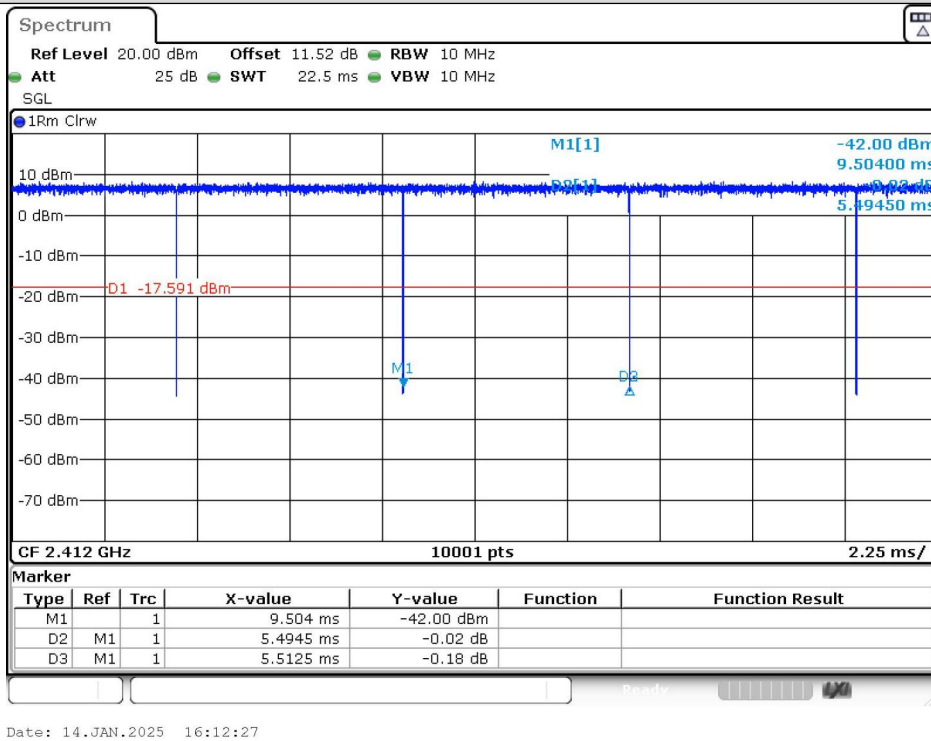


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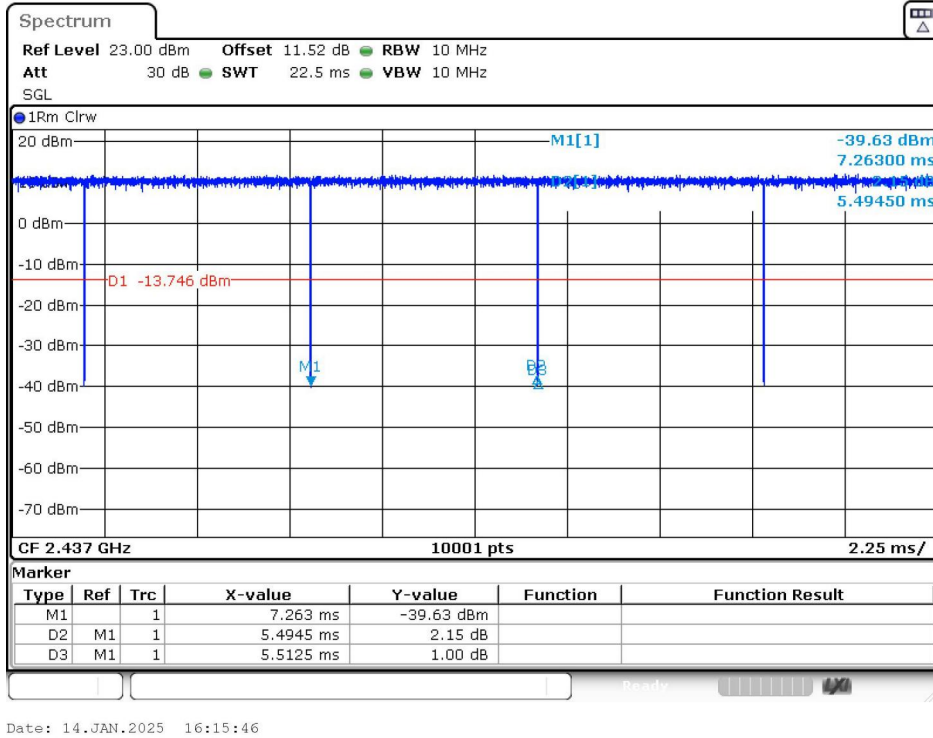
IEEE 802.11b_20MHz_Channel 6



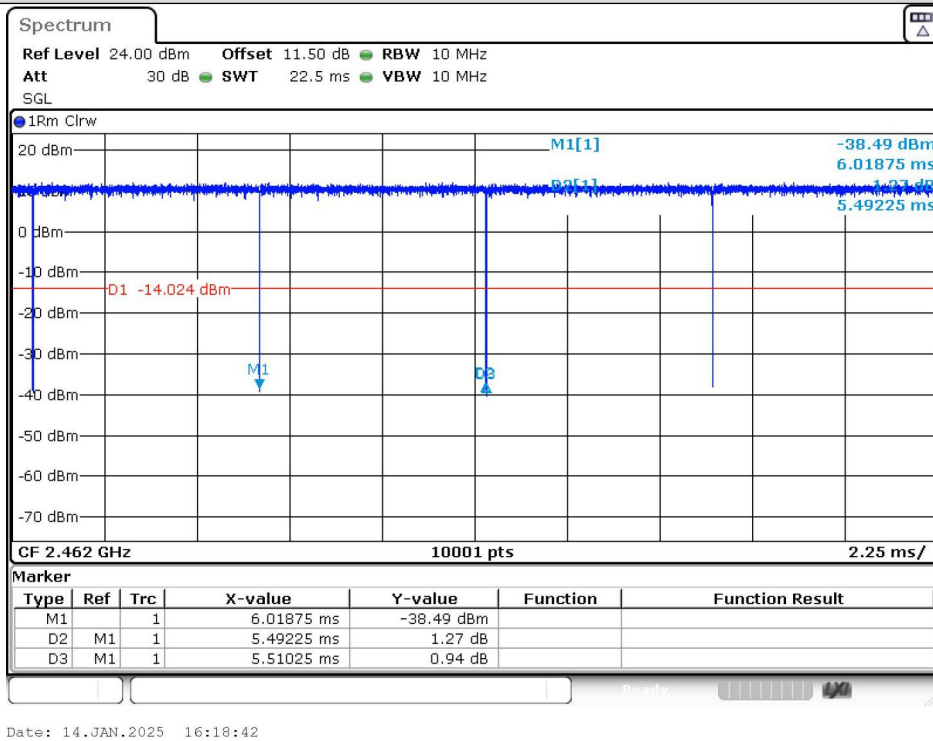
IEEE 802.11b_20MHz_Channel 11



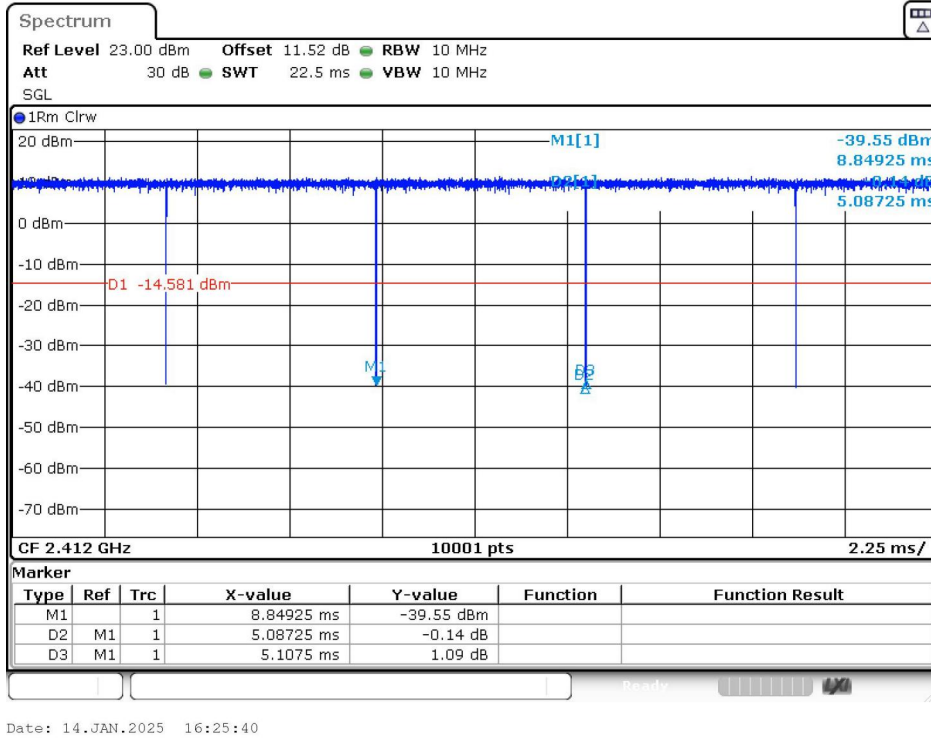
IEEE 802.11g_20MHz_Channel 1



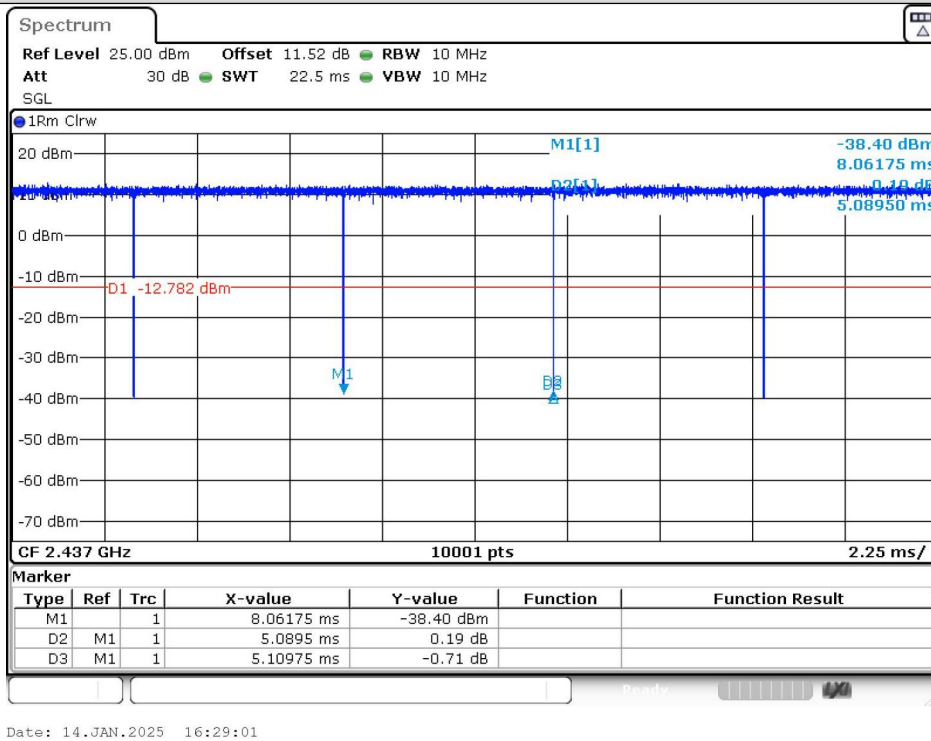
IEEE 802.11g_20MHz_Channel 6



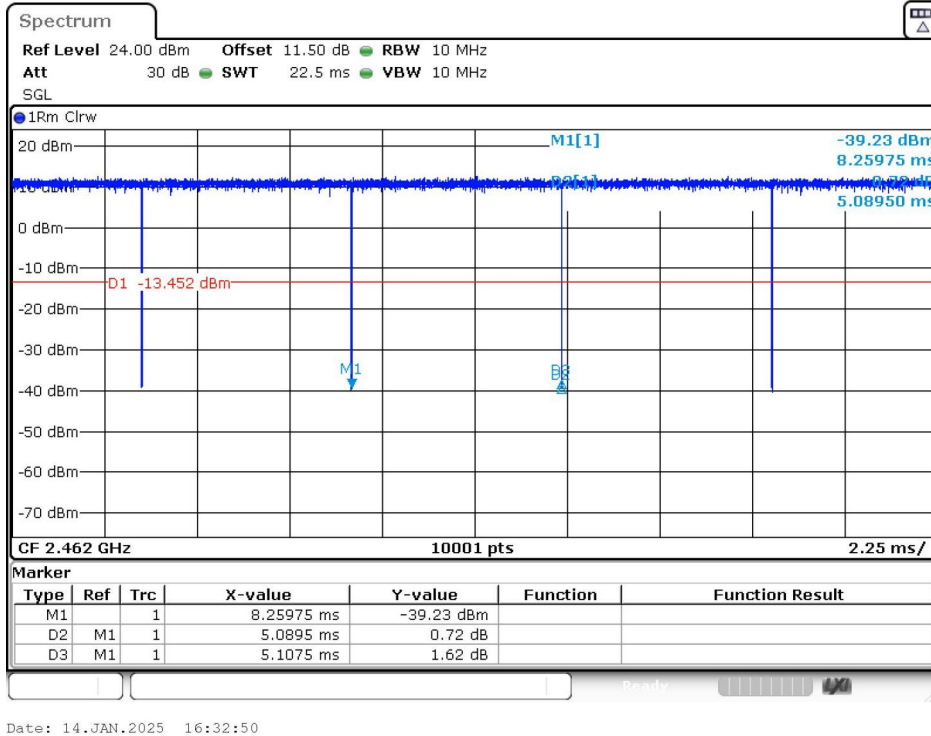
IEEE 802.11g_20MHz_Channel 11



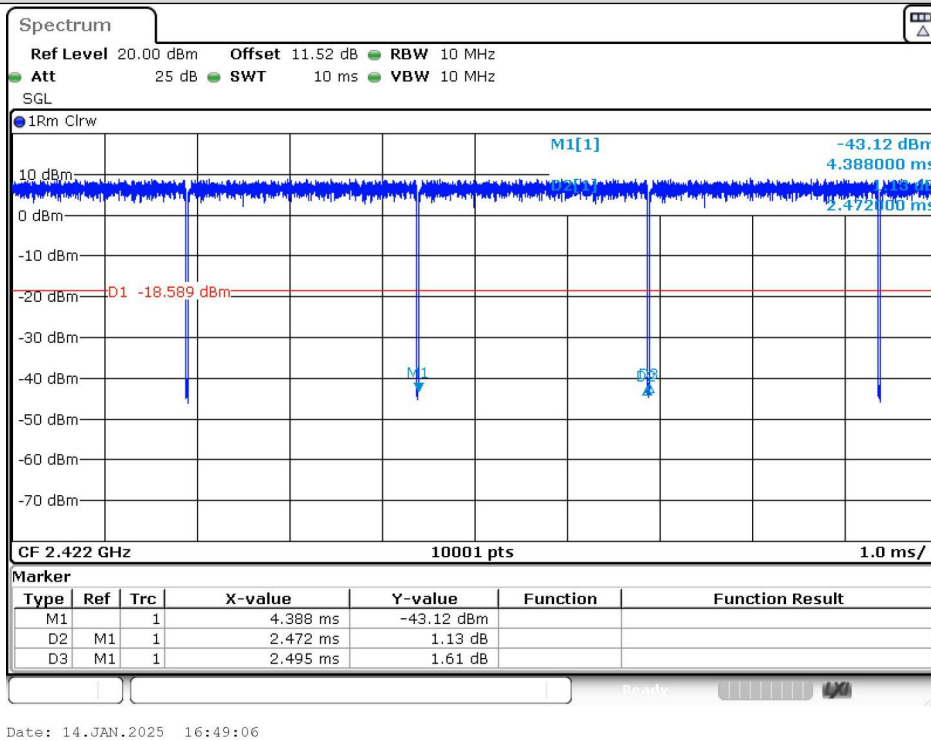
IEEE 802.11n_20MHz_Channel 1



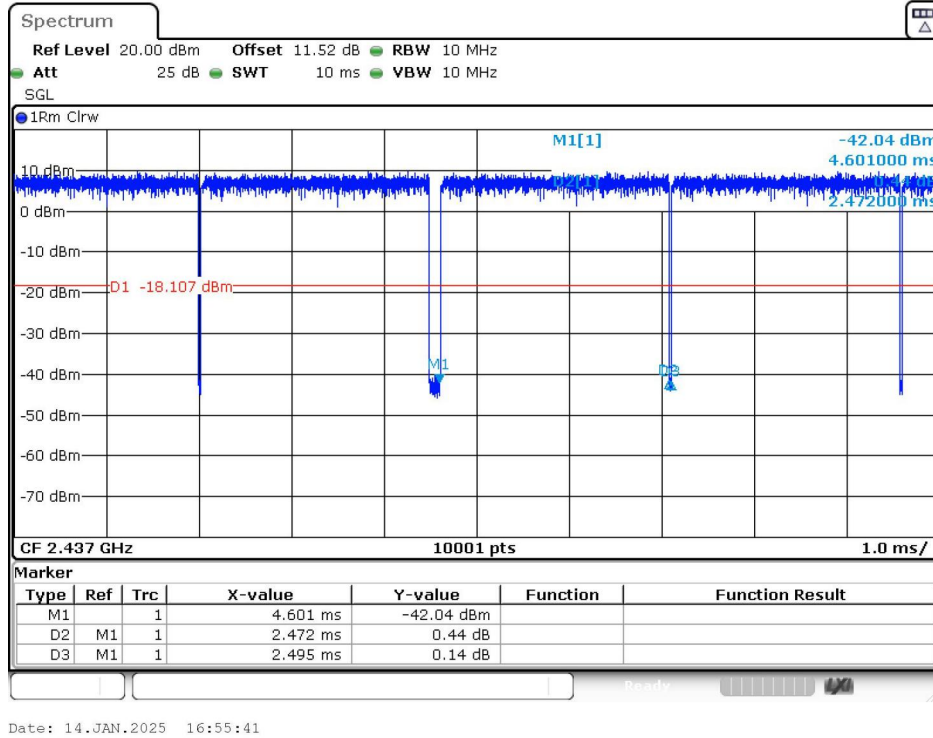
IEEE 802.11n_20MHz_Channel 6



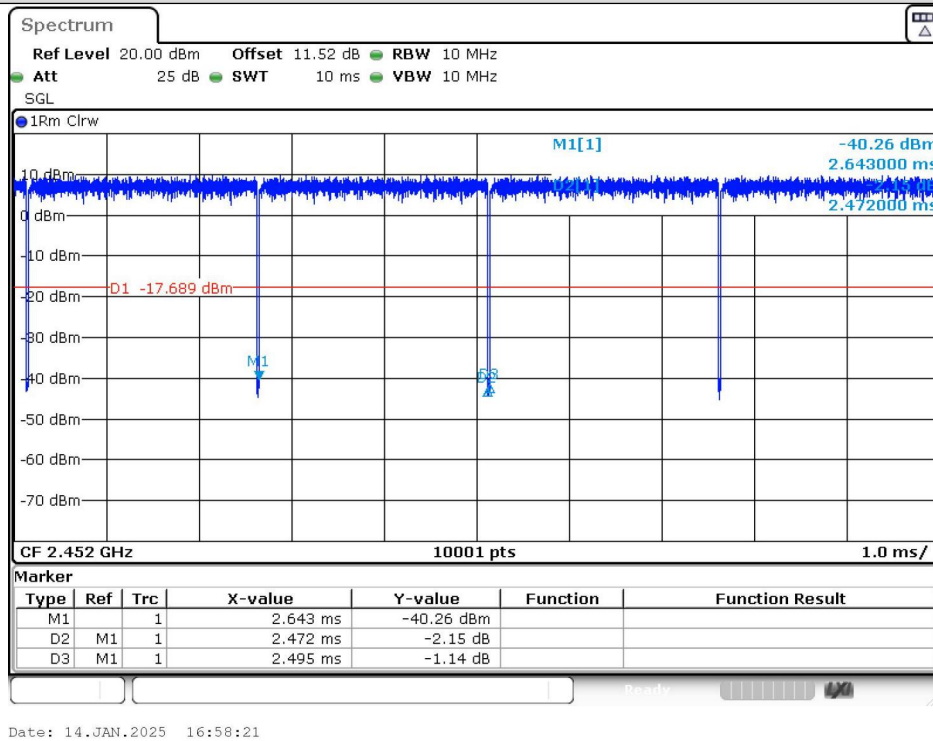
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



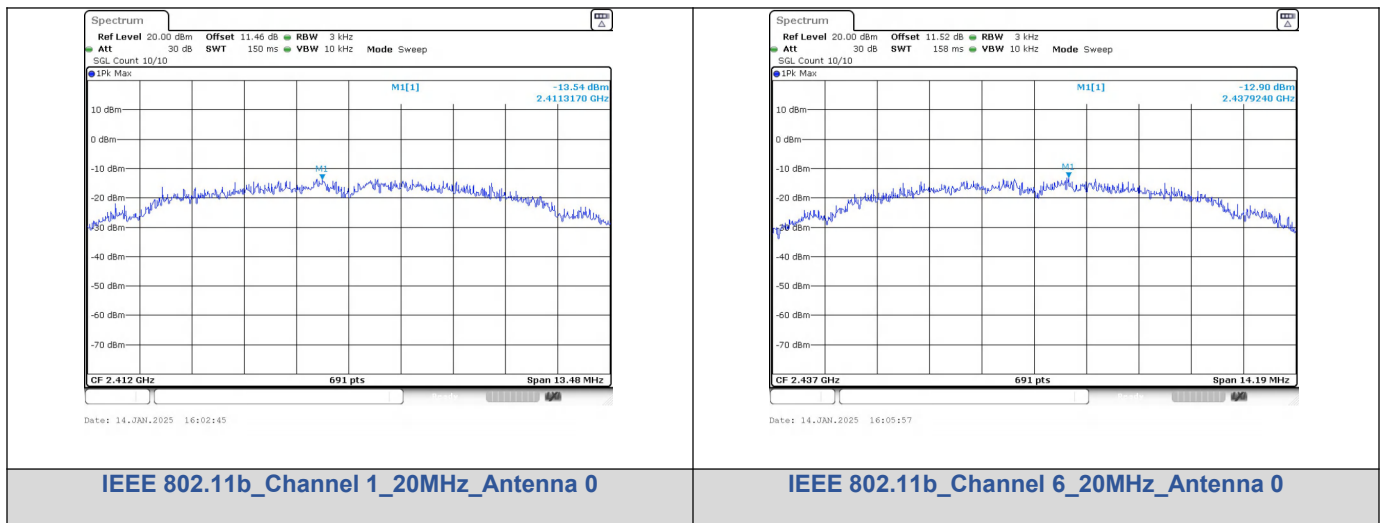
IEEE 802.11n_40MHz_Channel 9

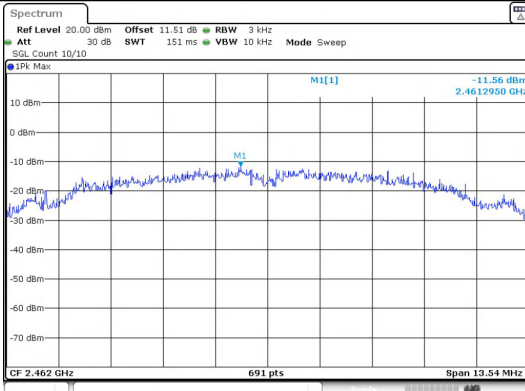
Power Spectral Density

Test Result

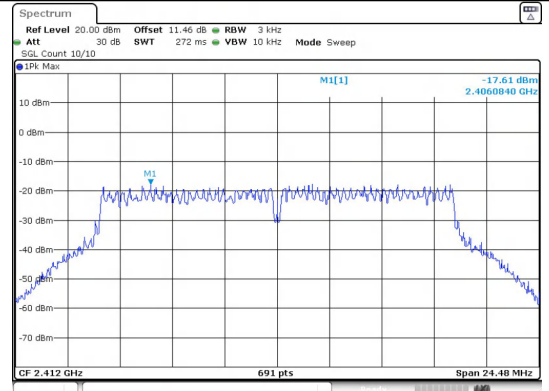
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-13.540	≤8	PASS
	6	-12.900		PASS
	11	-11.560		PASS
IEEE 802.11g	1	-17.610		PASS
	6	-13.400		PASS
	11	-13.250		PASS
IEEE 802.11n_20	1	-13.960		PASS
	6	-10.860		PASS
	11	-11.890		PASS
IEEE 802.11n_40	3	-16.450		PASS
	6	-15.210		PASS
	9	-15.050		PASS

Test Graphs

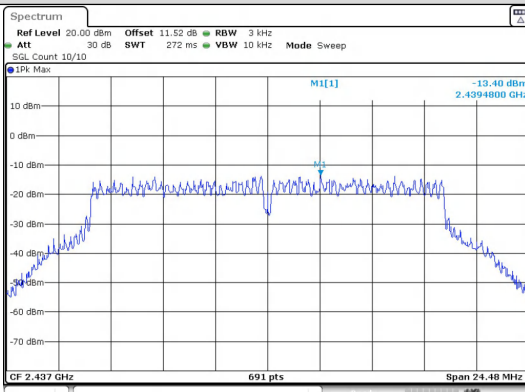




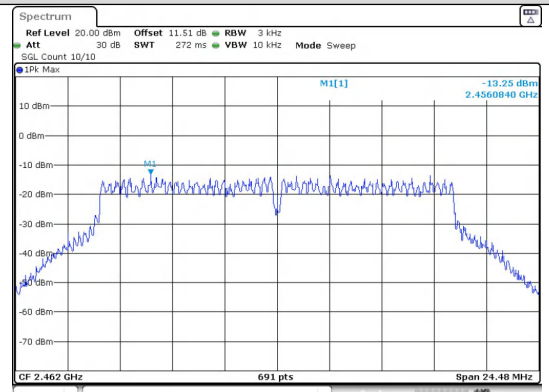
IEEE 802.11b_Channel 11_20MHz_Antenna 0



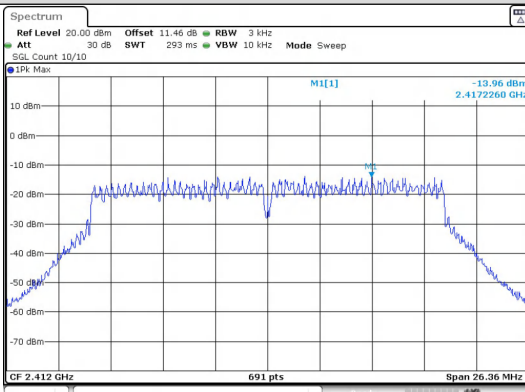
IEEE 802.11g_Channel 1_20MHz_Antenna 0



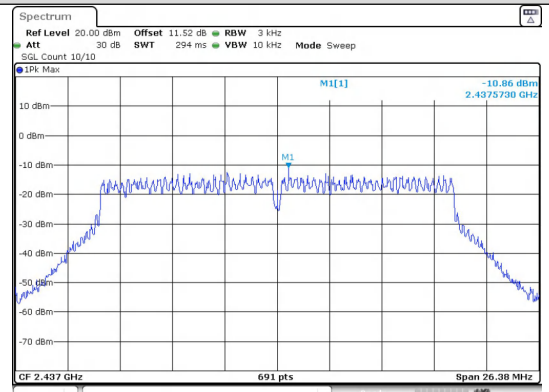
IEEE 802.11g_Channel 6_20MHz_Antenna 0



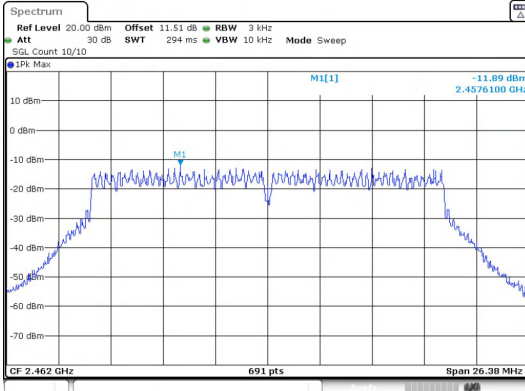
IEEE 802.11g_Channel 11_20MHz_Antenna 0



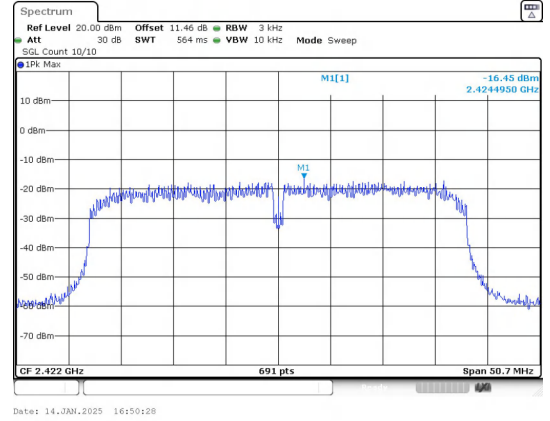
IEEE 802.11n_Channel 1_20MHz_Antenna 0



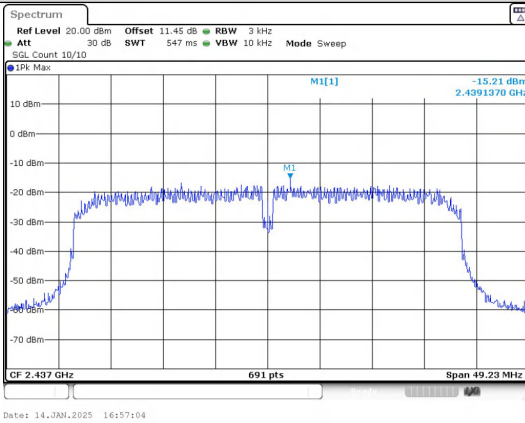
IEEE 802.11n_Channel 6_20MHz_Antenna 0



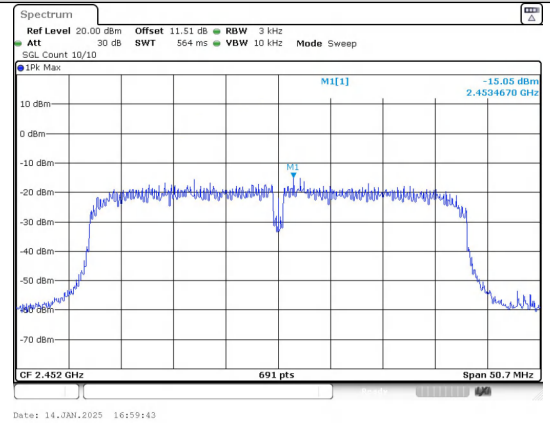
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

Conducted Peak Output Power

Test Result

Conducted Output Power

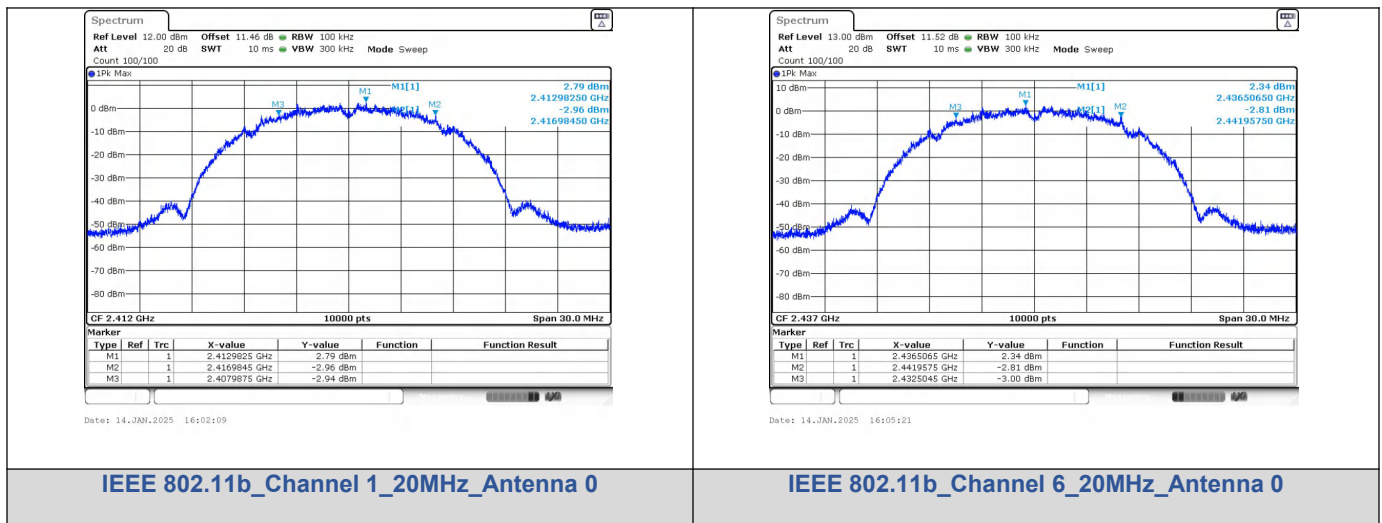
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	17.03	≤30	PASS
	6	17.08	≤30	PASS
	11	18.57	≤30	PASS
IEEE 802.11g	1	16.54	≤30	PASS
	6	20.31	≤30	PASS
	11	20.40	≤30	PASS
IEEE 802.11n_20	1	19.90	≤30	PASS
	6	21.41	≤30	PASS
	11	21.31	≤30	PASS
IEEE 802.11n_40	3	19.63	≤30	PASS
	6	19.63	≤30	PASS
	9	19.96	≤30	PASS

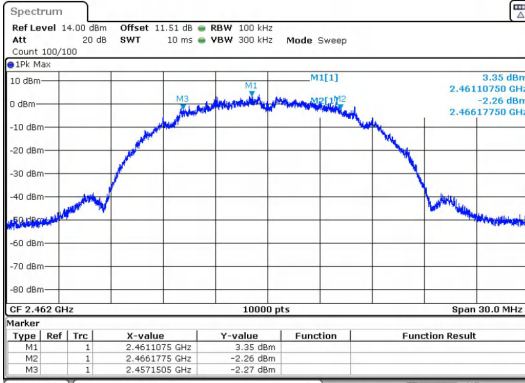
6dB Bandwidth

Test Result

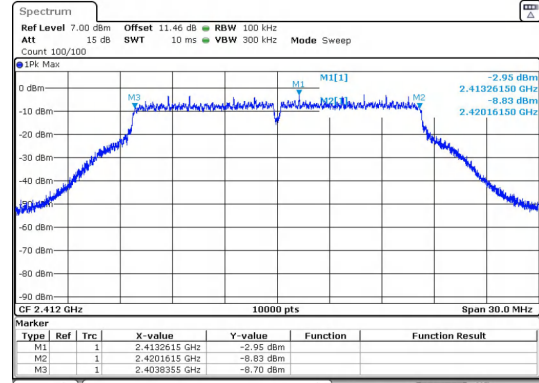
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.990	≥0.5	PASS
	6		2437	9.460		PASS
	11		2462	9.030		PASS
IEEE 802.11g	1		2412	16.32		PASS
	6		2437	16.32		PASS
	11		2462	16.32		PASS
IEEE 802.11n_20	1		2412	17.57		PASS
	6		2437	17.59		PASS
	11		2462	17.59		PASS
IEEE 802.11n_40	3		2422	33.80		PASS
	6		2437	32.82		PASS
	9		2452	33.80		PASS

Test Graphs



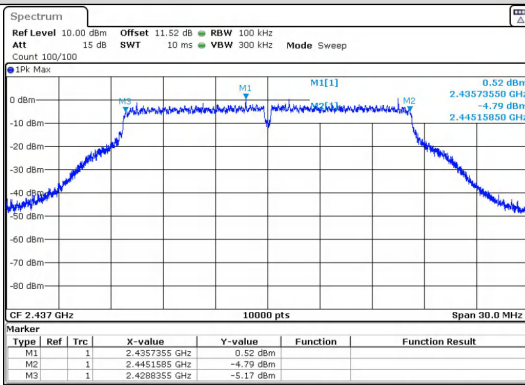


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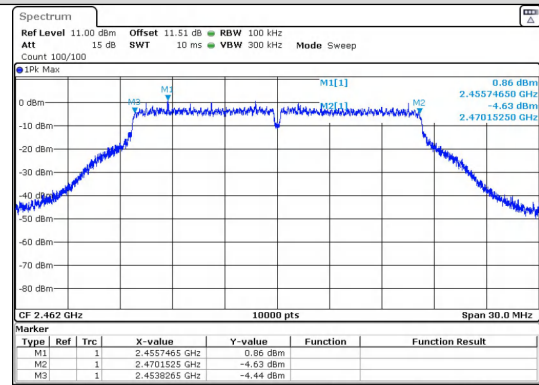
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



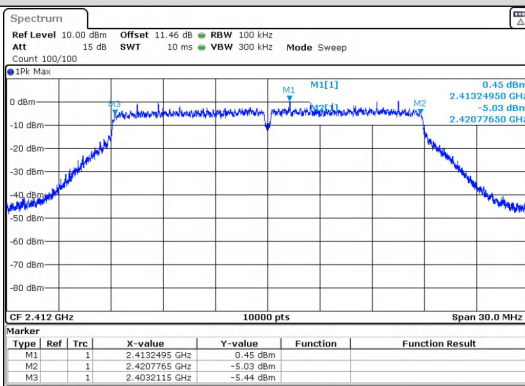
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IEEE 802.11g_Channel 1_20MHz_Antenna 0



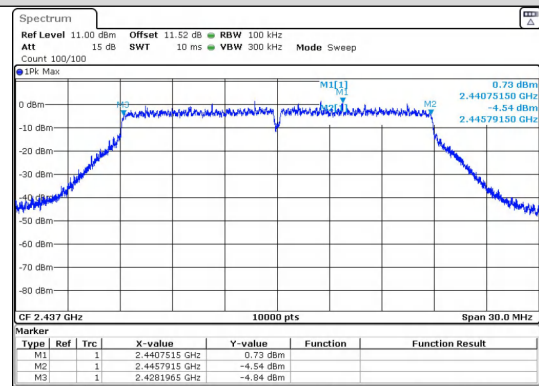
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



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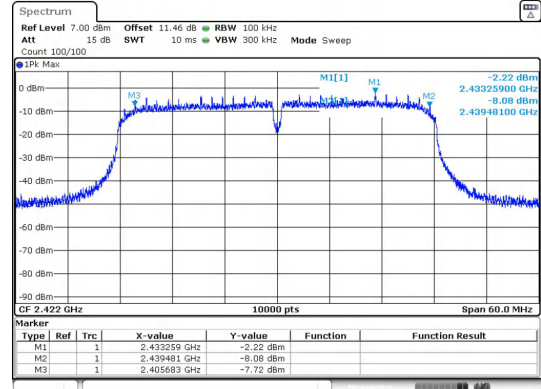
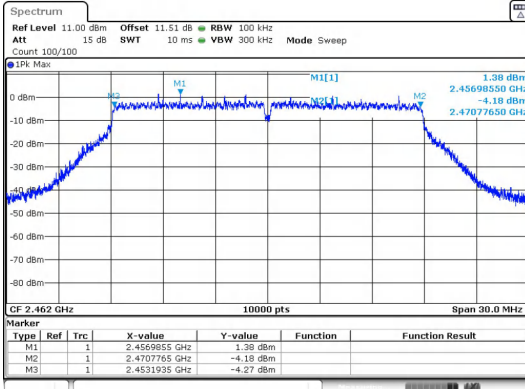
IEEE 802.11g_Channel 11_20MHz_Antenna 0



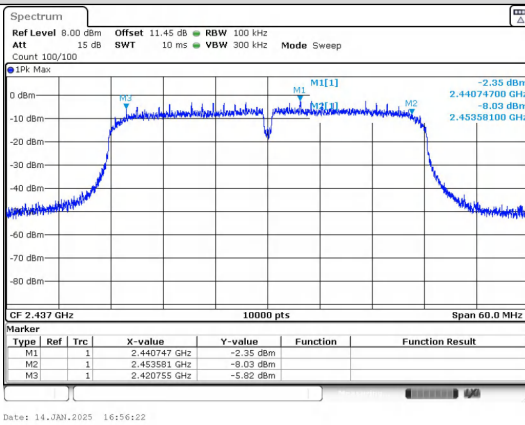
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IEEE 802.11n_Channel 1_20MHz_Antenna 0

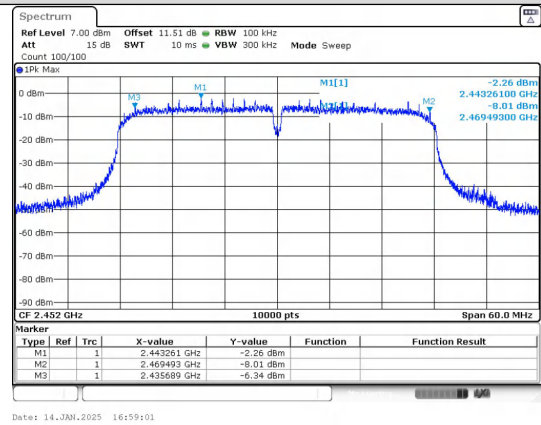
IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0

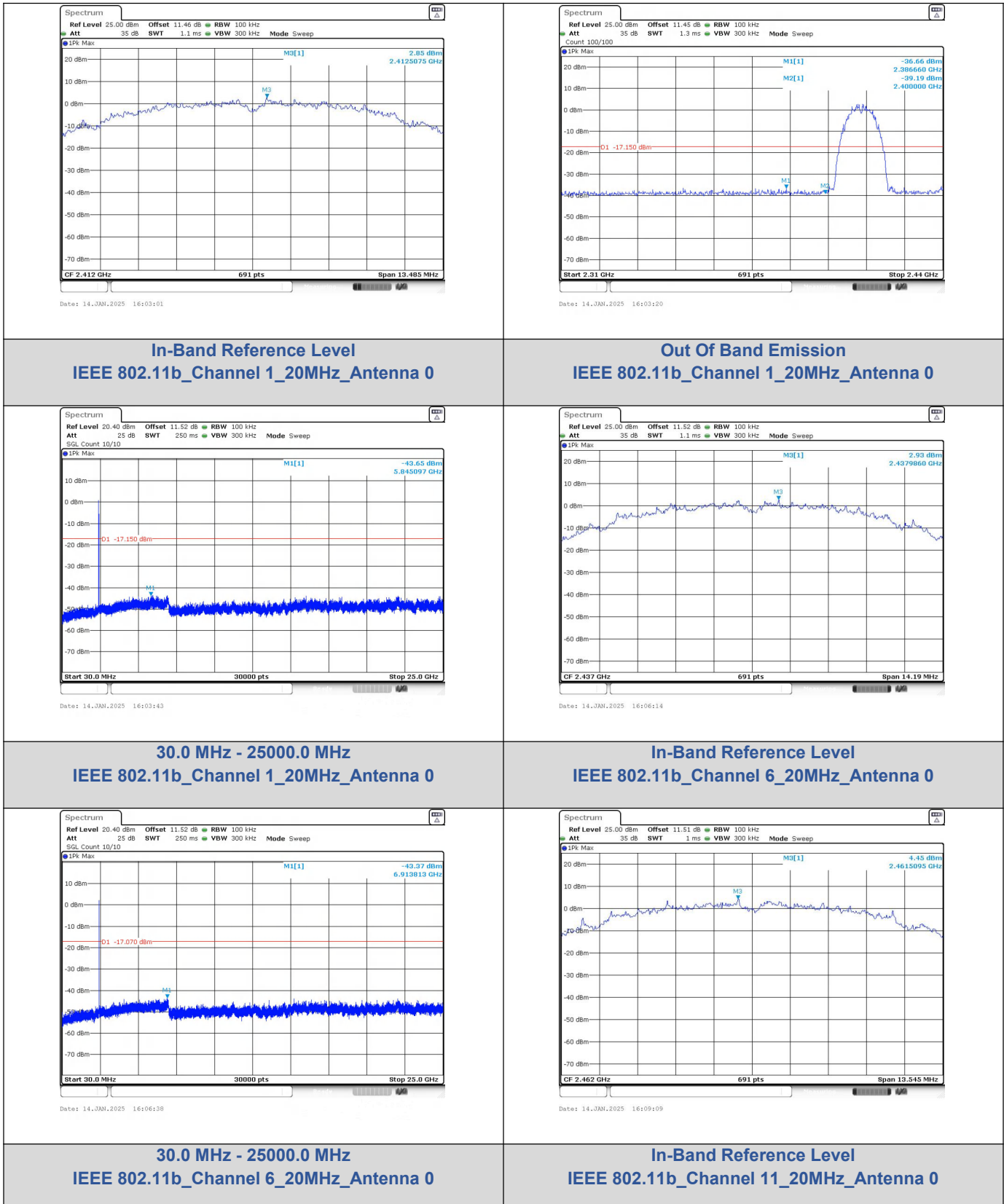
IEEE 802.11n_Channel 9_40MHz_Antenna 0

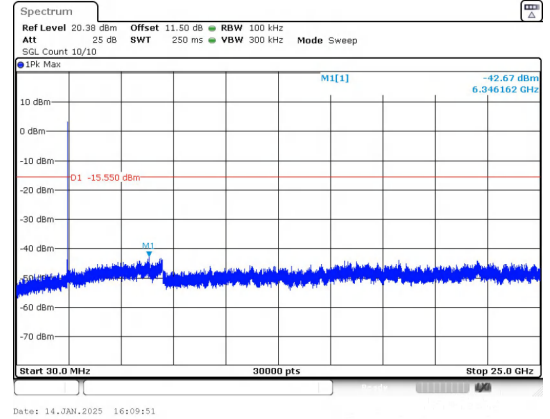
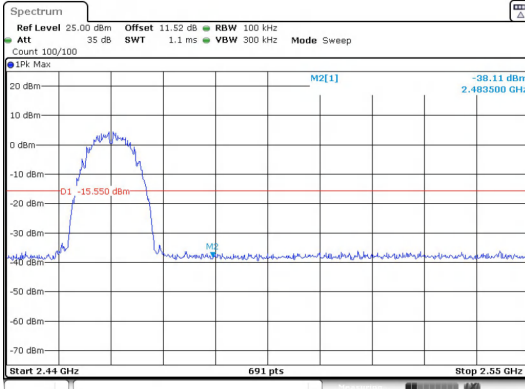
Conducted Out Of Band Emission

Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2386.66	-36.659	-17.15	-19.509	PASS
			2400.00	-39.190	-17.15	-22.040	PASS
			5845.10	-43.645	-17.15	-26.495	PASS
	6		6913.81	-43.374	-17.07	-26.304	PASS
	11		2483.50	-38.110	-15.55	-22.560	PASS
			6346.16	-42.672	-15.55	-27.122	PASS
IEEE 802.11g	1		2398.33	-36.935	-23.05	-13.885	PASS
			2400.00	-37.350	-23.05	-14.300	PASS
			6940.40	-43.572	-23.05	-20.522	PASS
	6		22053.1	-42.191	-19.92	-22.271	PASS
	11		2483.50	-38.170	-19.26	-18.910	PASS
			6997.88	-42.758	-19.26	-23.498	PASS
IEEE 802.11n_20	1		2400.00	-33.630	-19.91	-13.720	PASS
			6893.00	-43.894	-19.91	-23.984	PASS
	6		1784.14	-30.736	-18.26	-12.476	PASS
	11		2483.50	-38.150	-18.75	-19.400	PASS
			6926.30	-43.266	-18.75	-24.516	PASS
	IEEE 802.11n_40		3	915.20	-41.189	-22.29	-18.899
2391.37				-35.737	-22.29	-13.447	PASS
2400.00				-37.020	-22.29	-14.730	PASS
6			6242.12	-42.626	-22.41	-20.216	PASS
9			1760.84	-41.604	-22.07	-19.534	PASS
			2483.50	-38.540	-22.07	-16.470	PASS

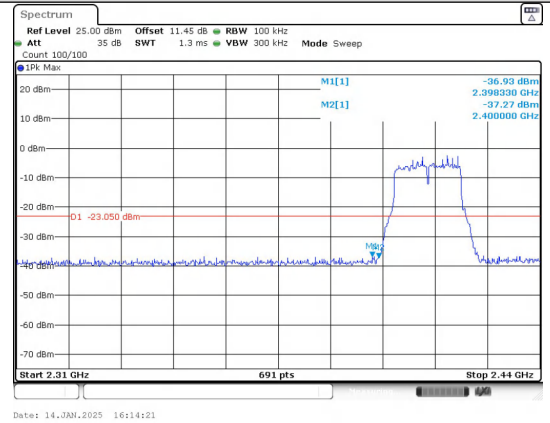
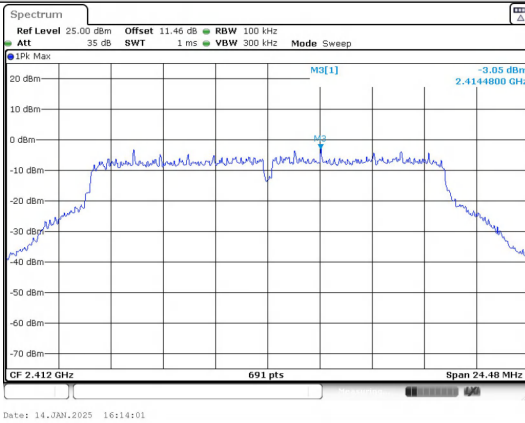
Test Graphs





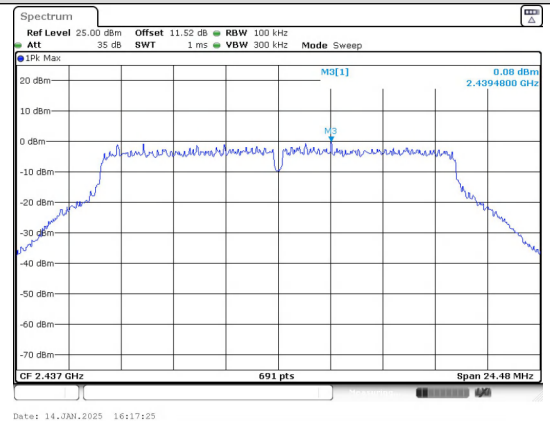
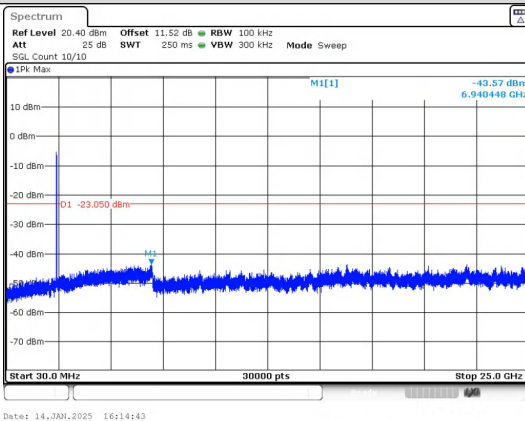
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



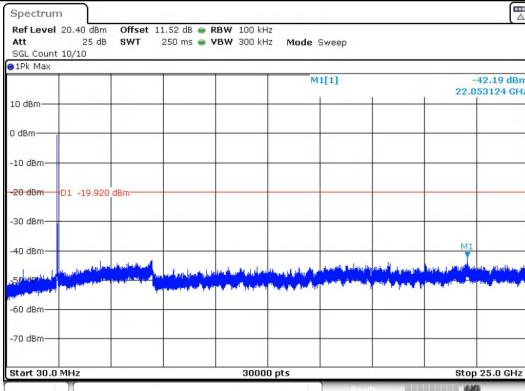
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0

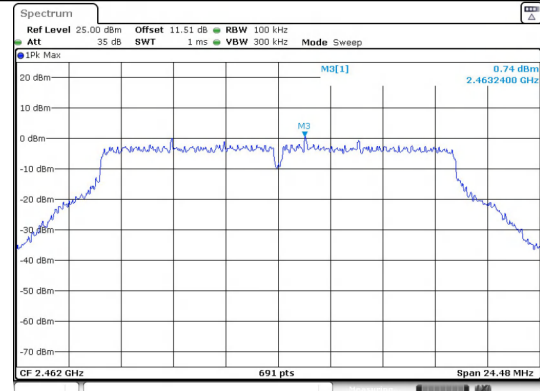


30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0

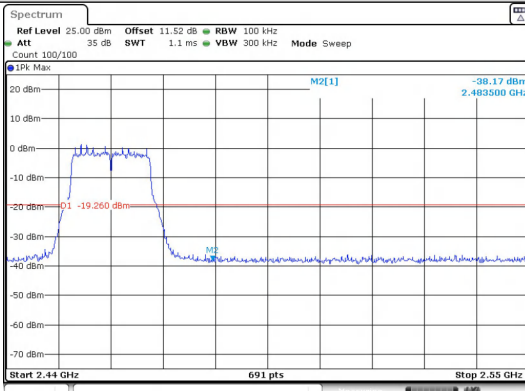
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



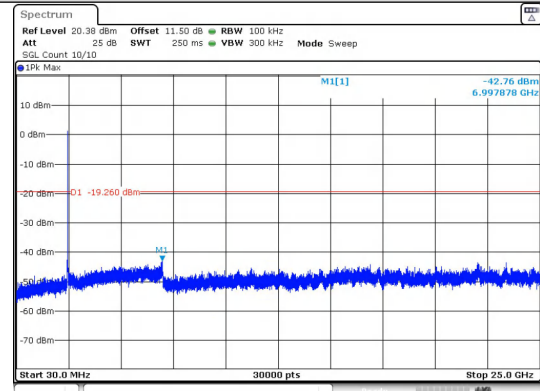
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



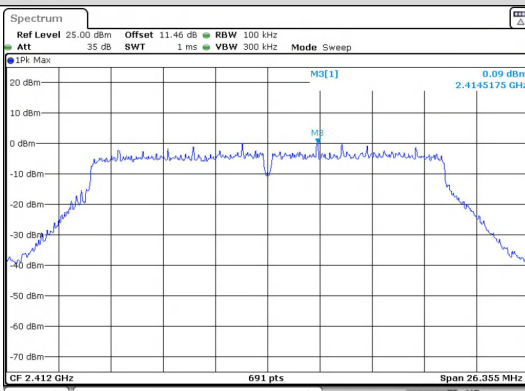
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



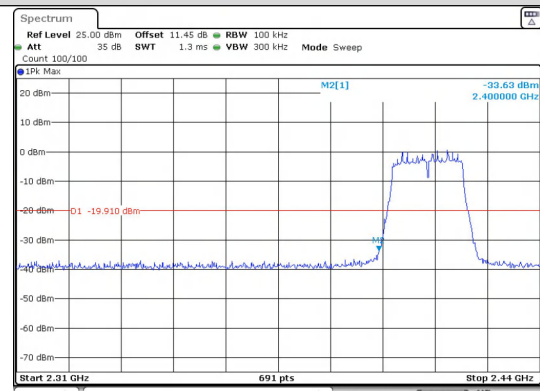
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



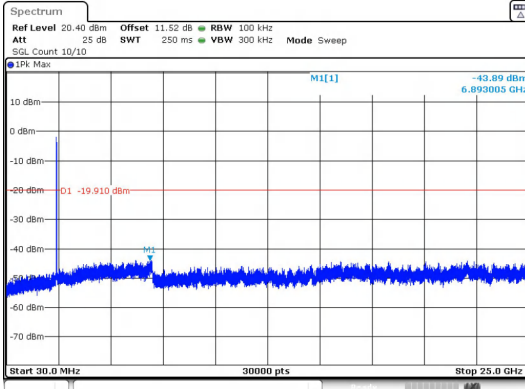
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0

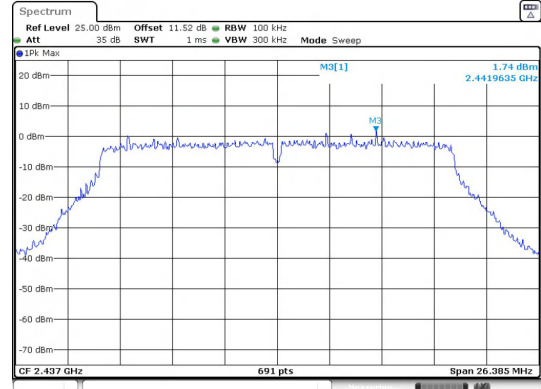


Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



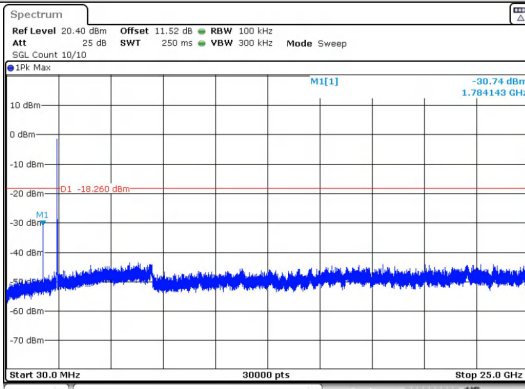
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30.0 MHz - 25000.0 MHz
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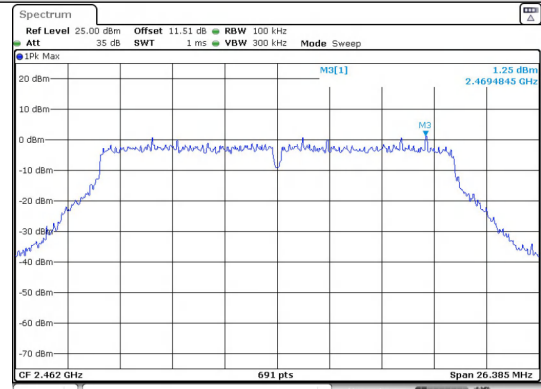
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In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



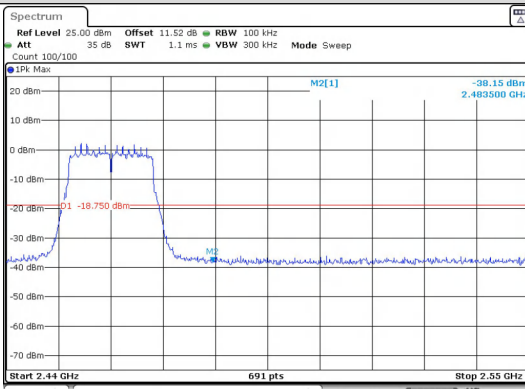
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



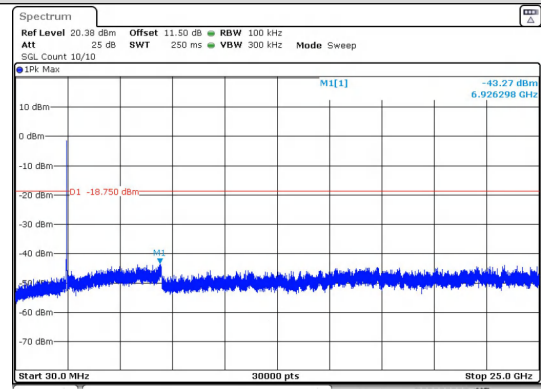
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In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



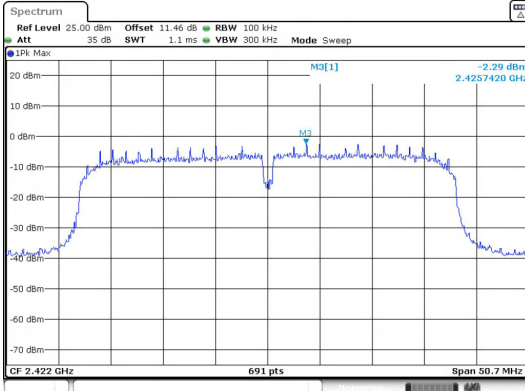
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Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0

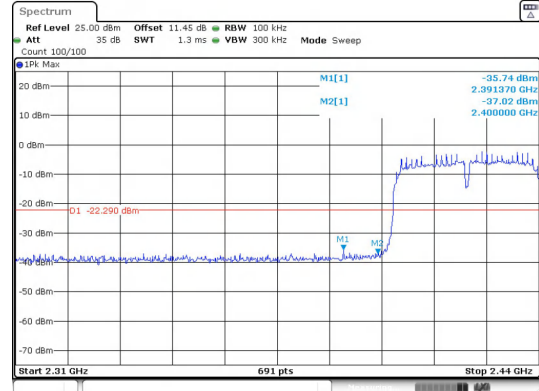


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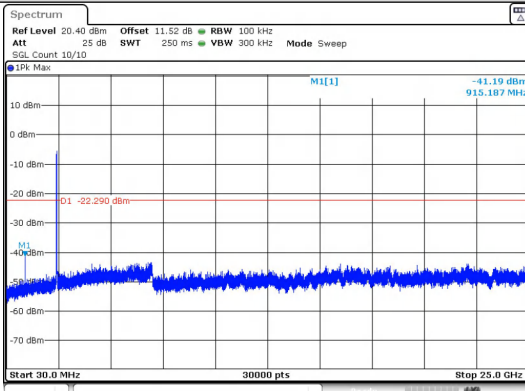
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



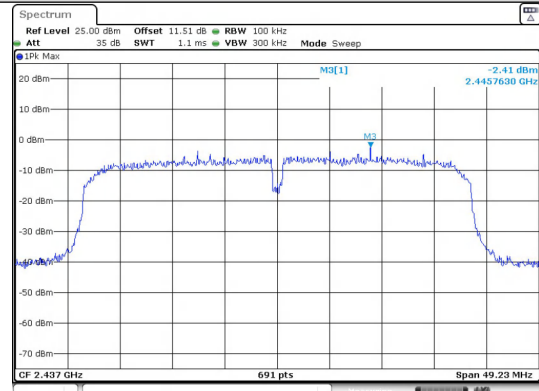
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



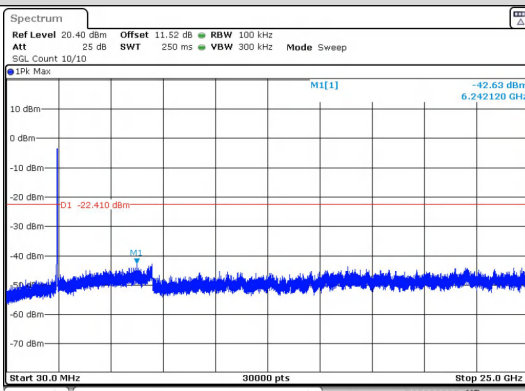
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



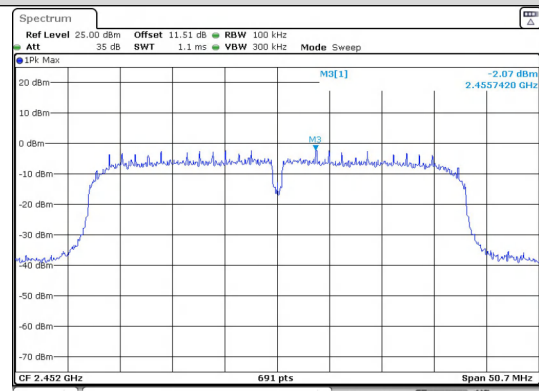
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



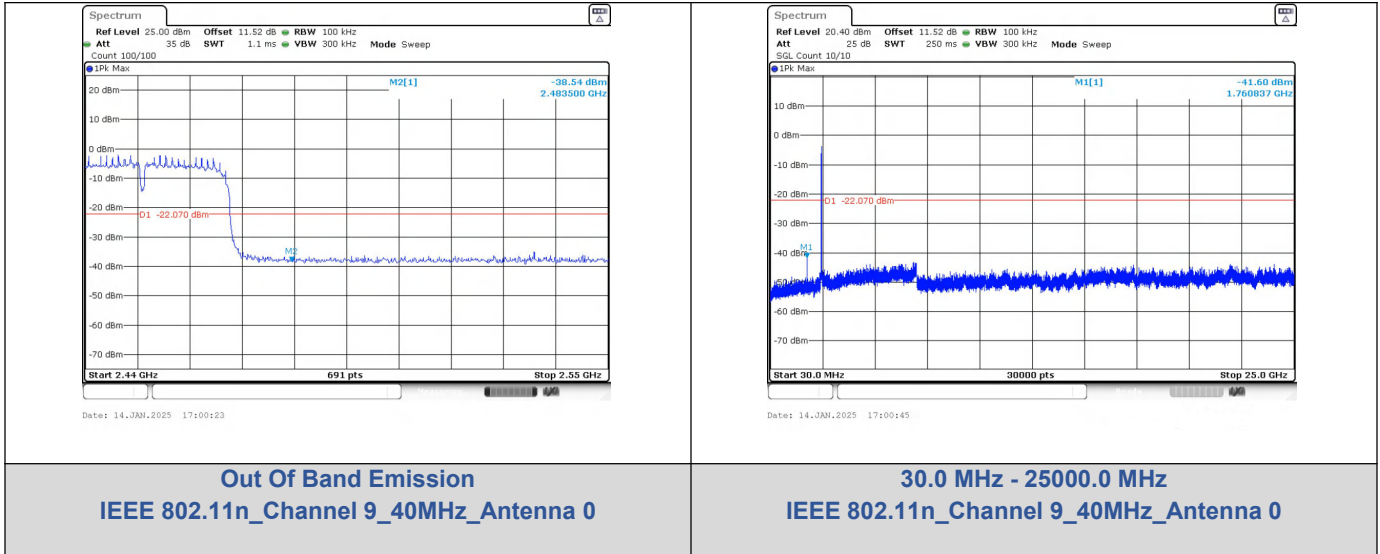
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



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