

Appendix Report

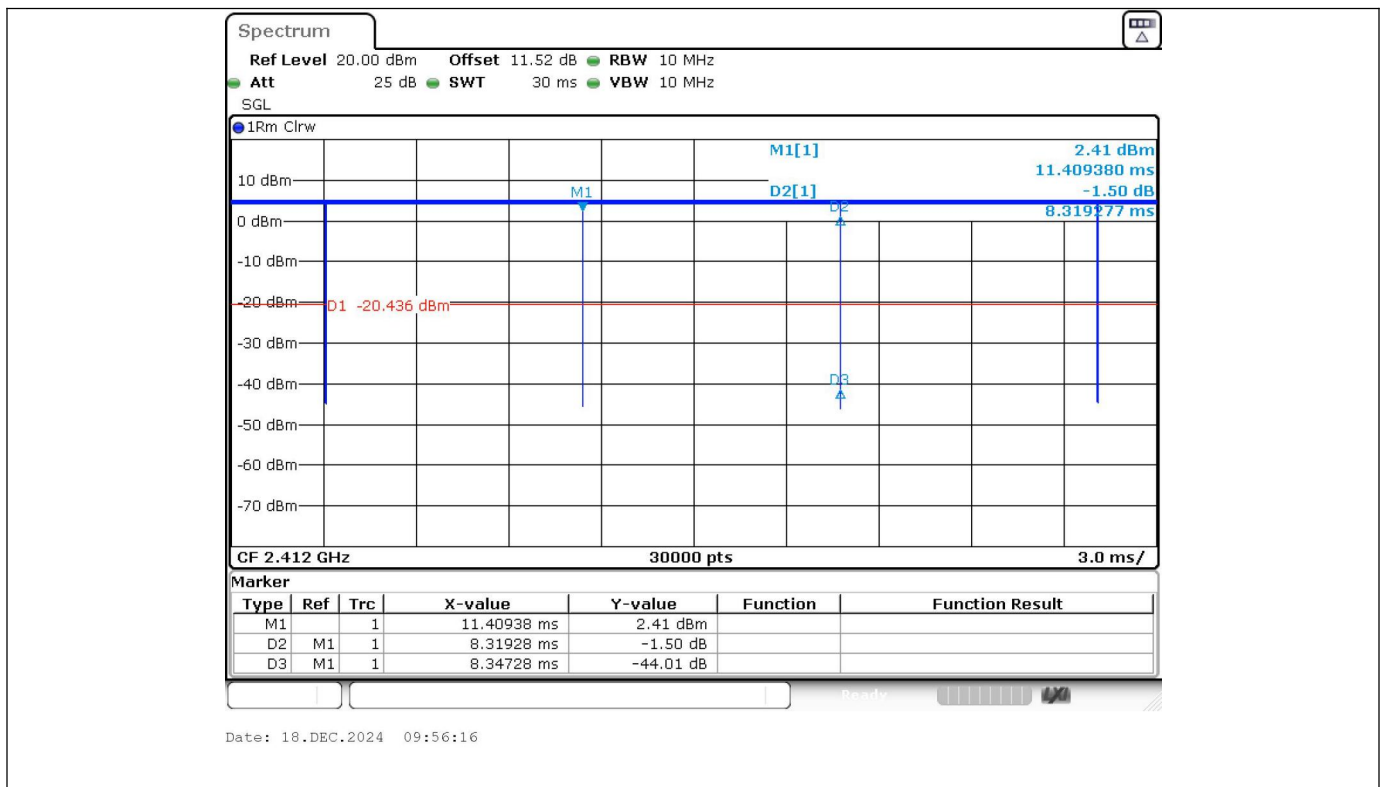
Report No.:	CISRR24120605101
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

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	8.347	99.66	0.9966	0.0148	0.1202
		6		8.319	8.348	99.65	0.9965	0.0152	0.1202
		11		8.342	8.370	99.66	0.9966	0.0148	0.1199
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	1.293	1.327	97.44	0.9744	0.1126	0.7734
		6		1.304	1.338	97.46	0.9746	0.1117	0.7669
		11		1.304	1.337	97.53	0.9753	0.1086	0.7669

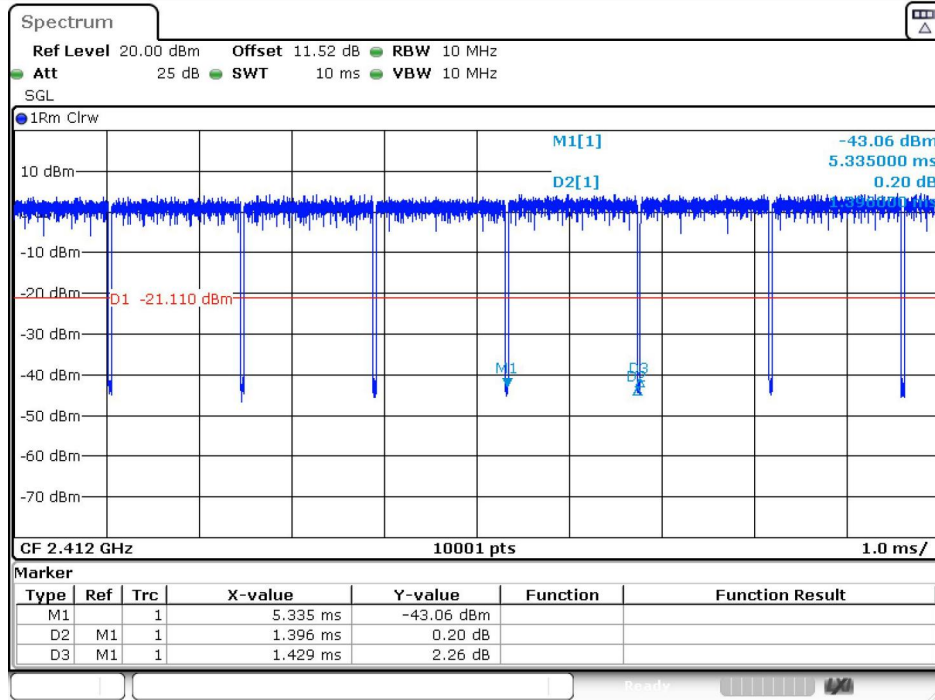
Test Graphs



Date: 18.DEC.2024 09:59:47

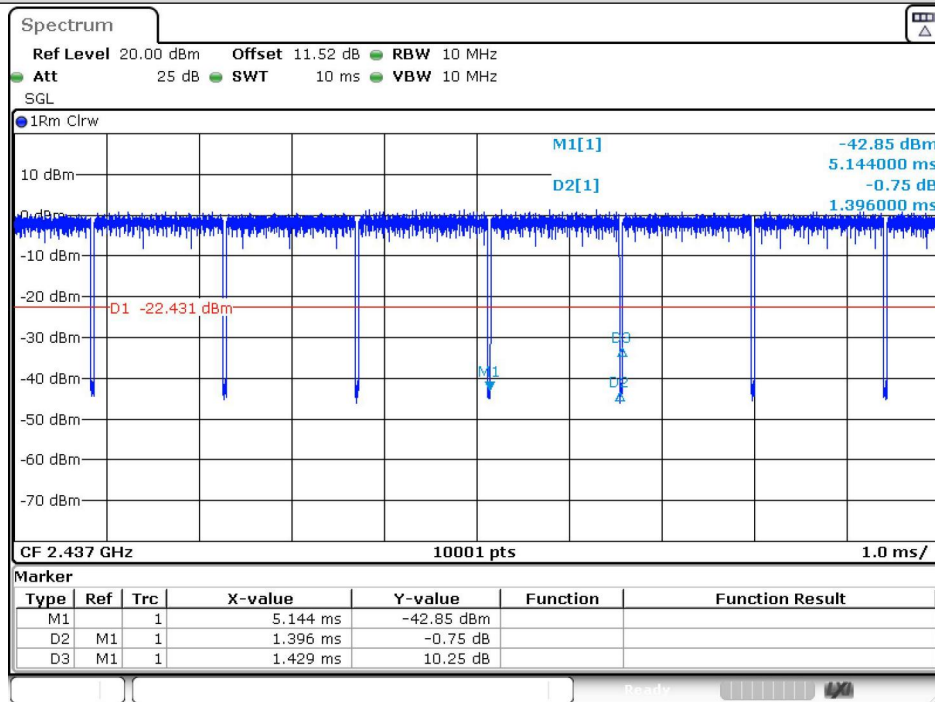
Date: 18.DEC.2024 10:02:35

IEEE 802.11b_20MHz_Channel 11



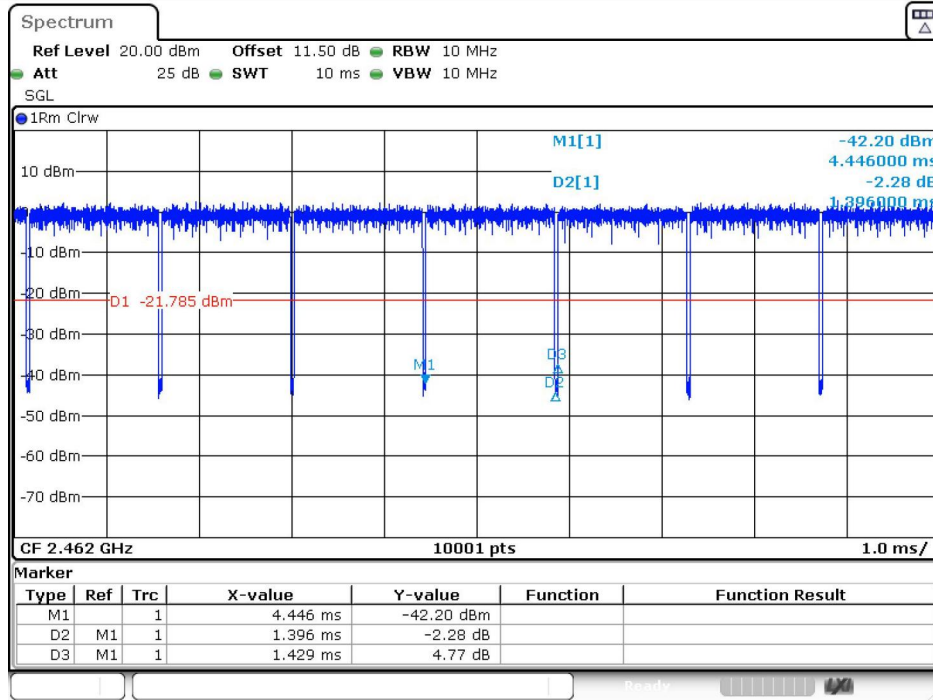
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IEEE 802.11g_20MHz_Channel 1



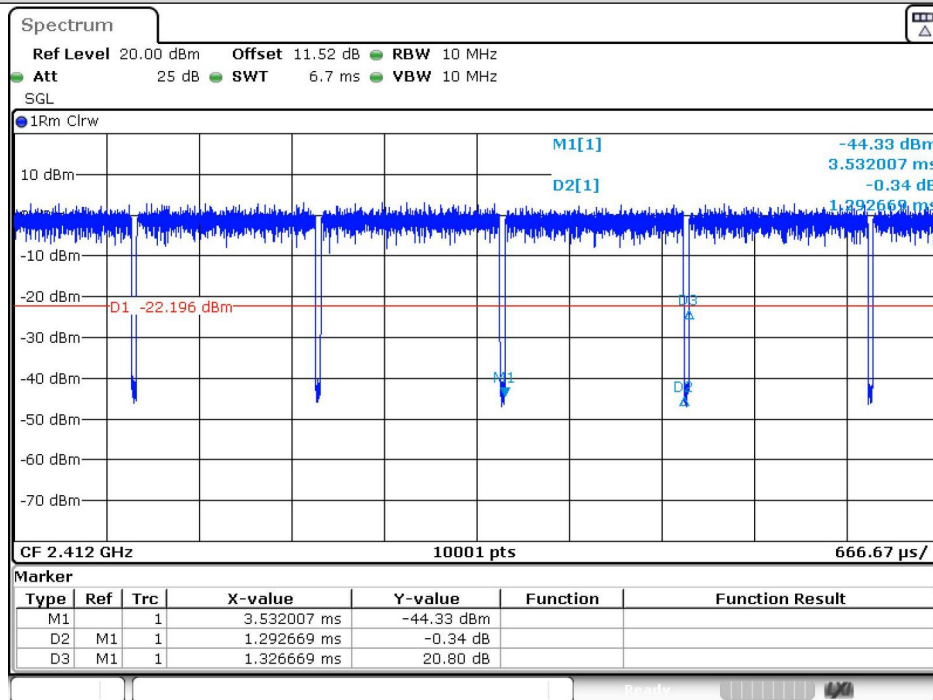
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IEEE 802.11g_20MHz_Channel 6



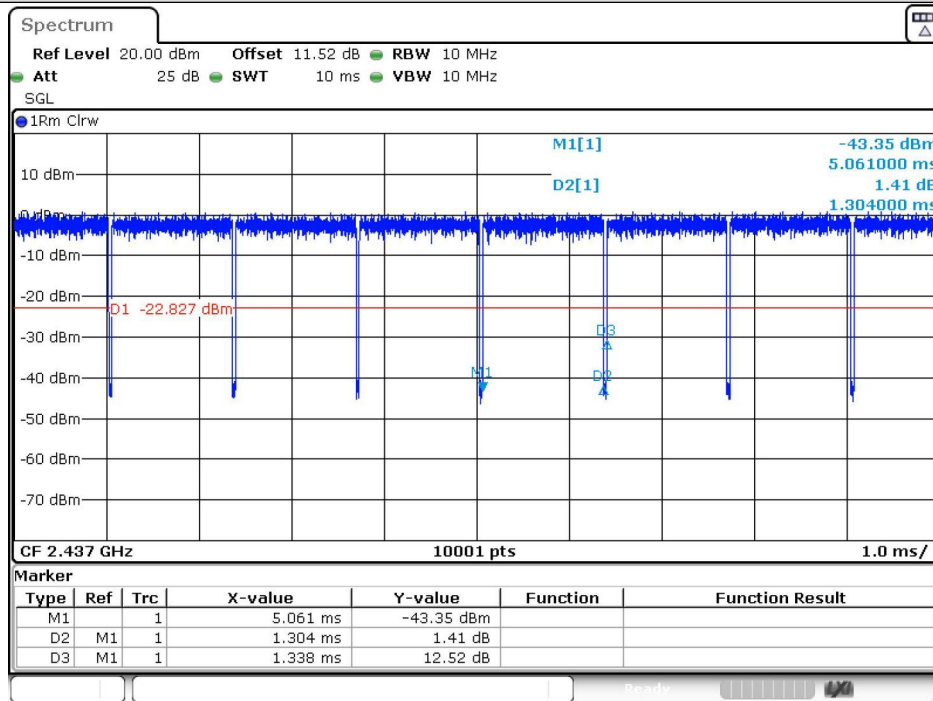
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IEEE 802.11g_20MHz_Channel 11



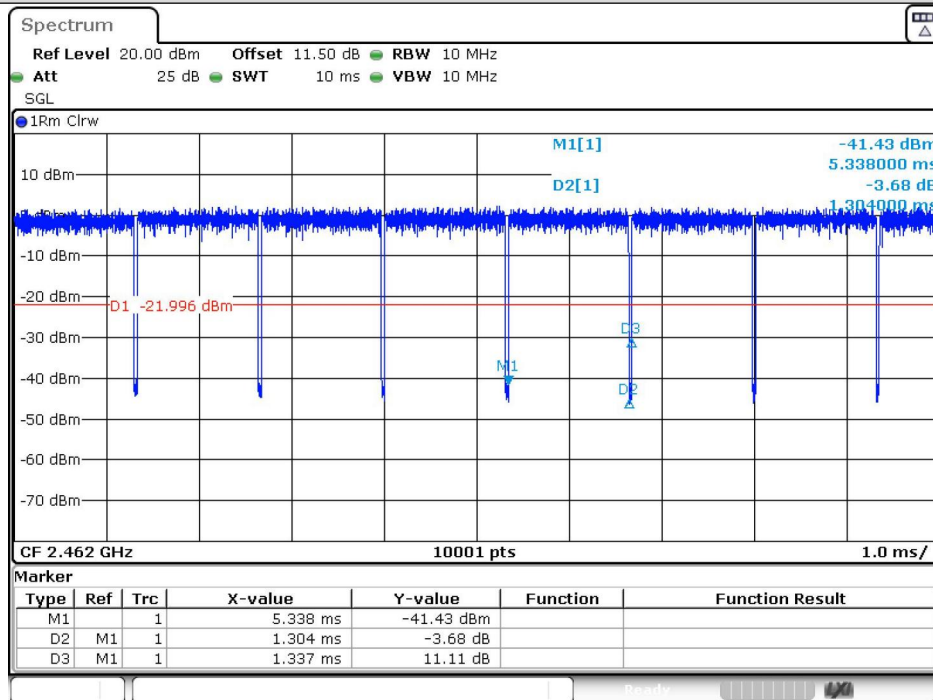
Date: 18.DEC.2024 10:16:18

IEEE 802.11n_20MHz_Channel 1



Date: 18.DEC.2024 10:21:18

IEEE 802.11n_20MHz_Channel 6



Date: 18.DEC.2024 10:26:18

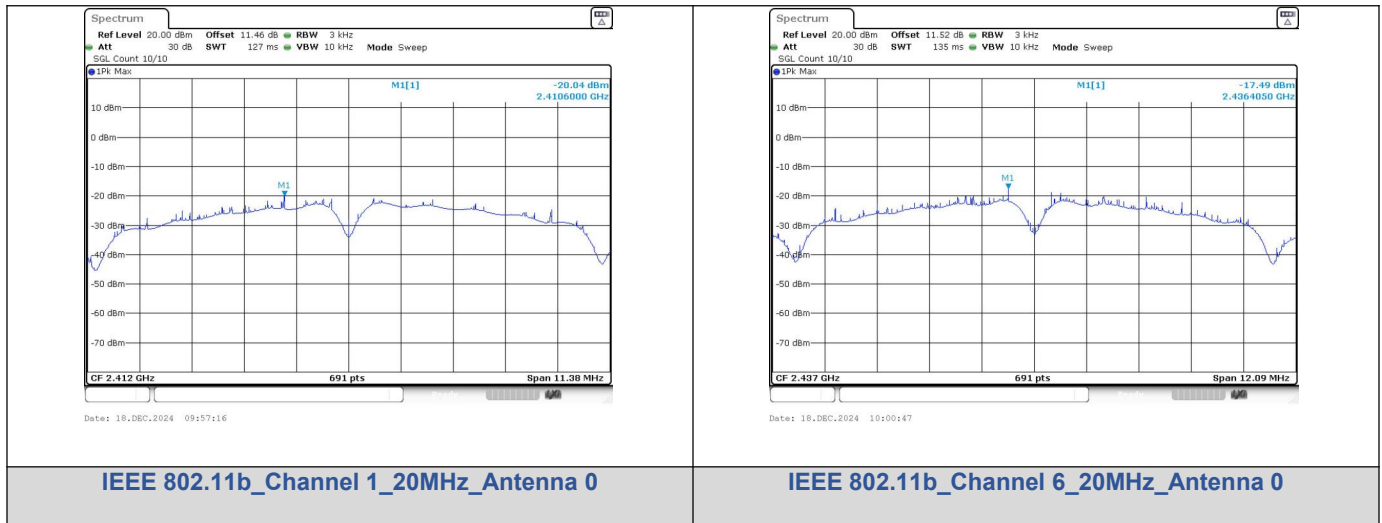
IEEE 802.11n_20MHz_Channel 11

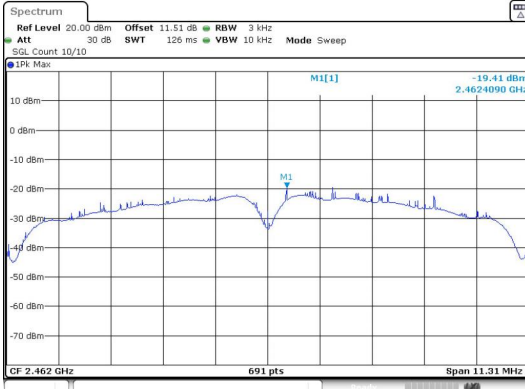
Power Spectral Density

Test Result

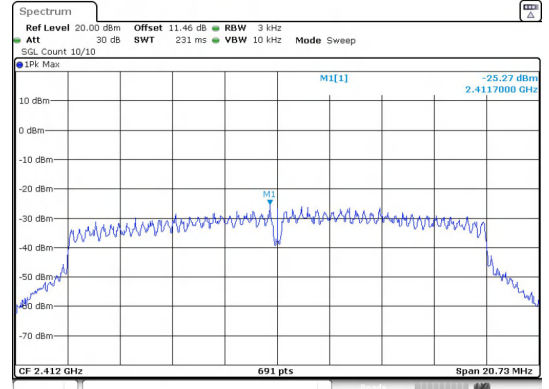
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-20.040	≤8	PASS
	6	-17.490		PASS
	11	-19.410		PASS
IEEE 802.11g	1	-25.270		PASS
	6	-26.290		PASS
	11	-23.870		PASS
IEEE 802.11n_20	1	-25.370		PASS
	6	-25.060		PASS
	11	-23.370		PASS

Test Graphs

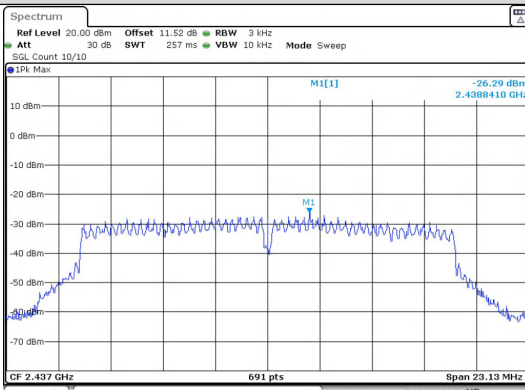




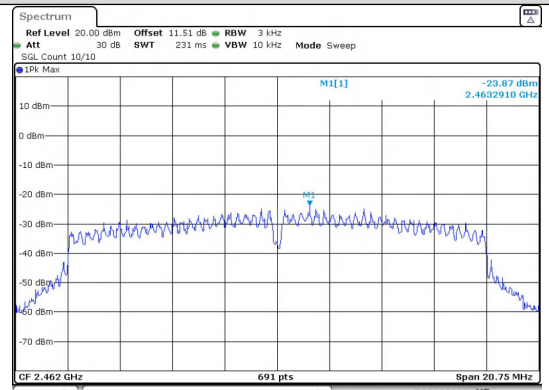
IEEE 802.11b_Channel 11_20MHz_Antenna 0



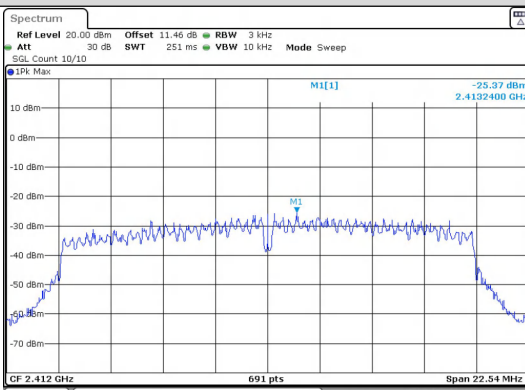
IEEE 802.11g_Channel 1_20MHz_Antenna 0



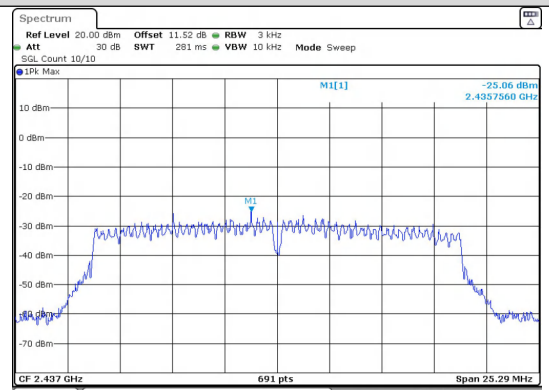
IEEE 802.11g_Channel 6_20MHz_Antenna 0



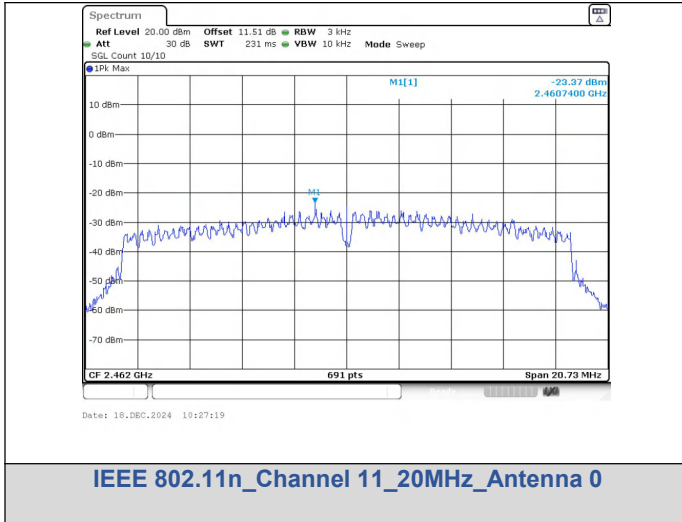
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



Conducted Output Power

Test Result

Conducted Output Power

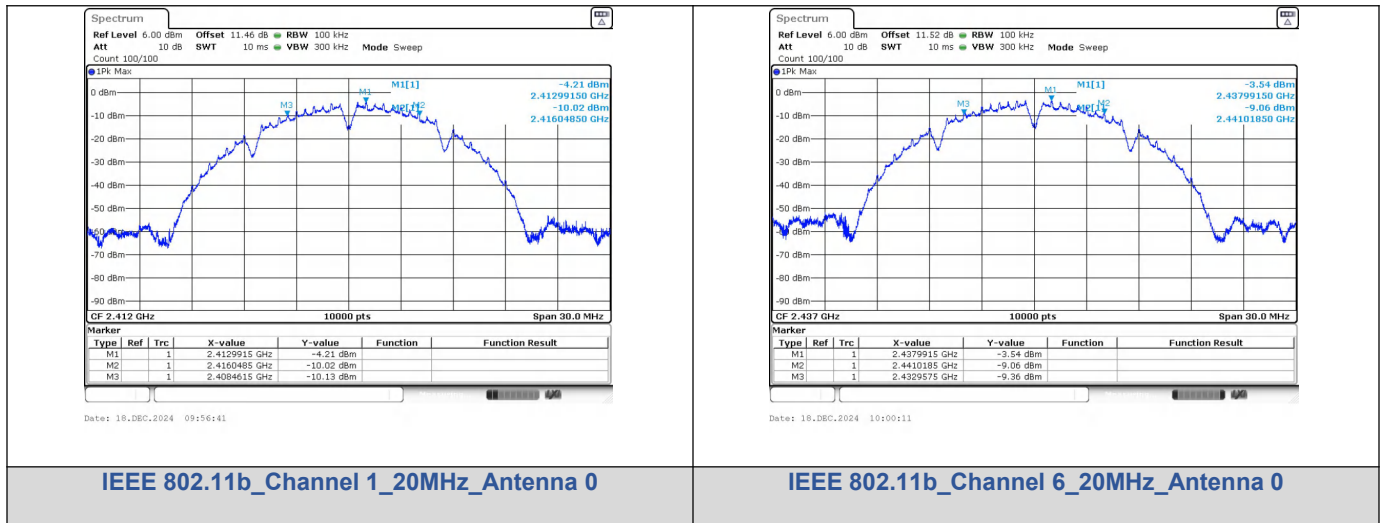
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	7.70	≤30	PASS
	6	8.81	≤30	PASS
	11	8.07	≤30	PASS
IEEE 802.11g	1	7.79	≤30	PASS
	6	7.79	≤30	PASS
	11	8.70	≤30	PASS
IEEE 802.11n_20	1	8.49	≤30	PASS
	6	7.88	≤30	PASS
	11	8.60	≤30	PASS

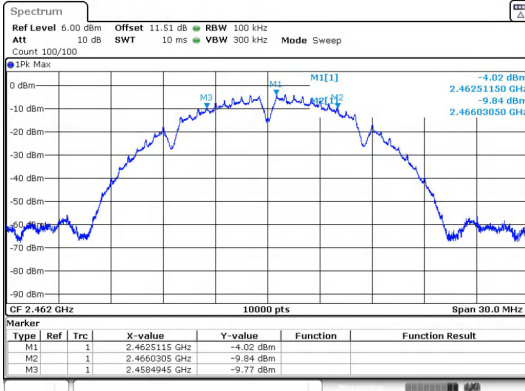
6dB Bandwidth

Test Result

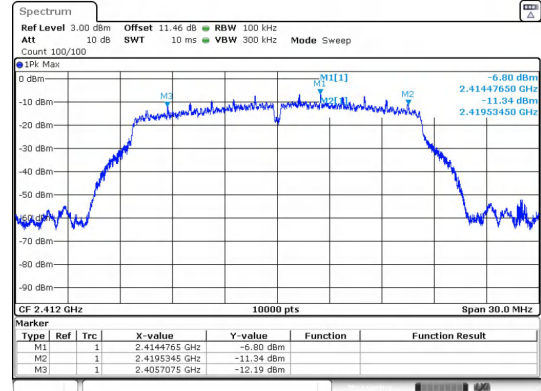
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.590	≥0.5	PASS
	6		2437	8.060		PASS
	11		2462	7.540		PASS
IEEE 802.11g	1		2412	13.82		PASS
	6		2437	15.42		PASS
	11		2462	13.83		PASS
IEEE 802.11n_20	1		2412	15.03		PASS
	6		2437	16.86		PASS
	11		2462	13.82		PASS

Test Graphs



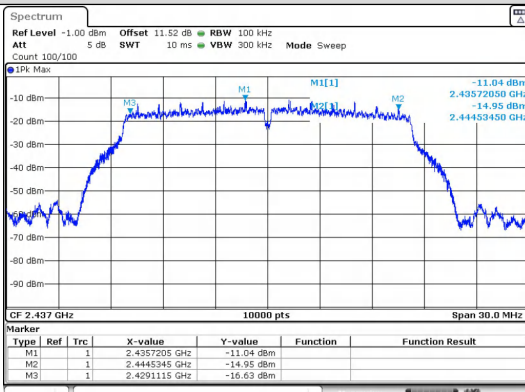


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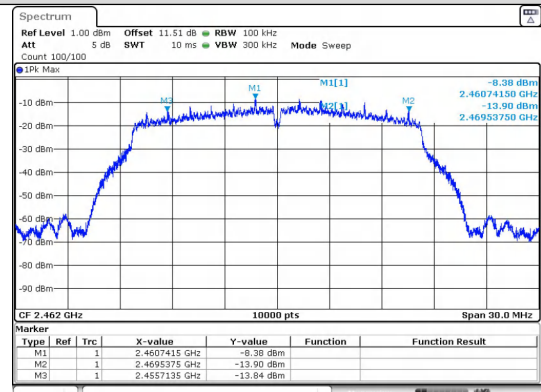
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



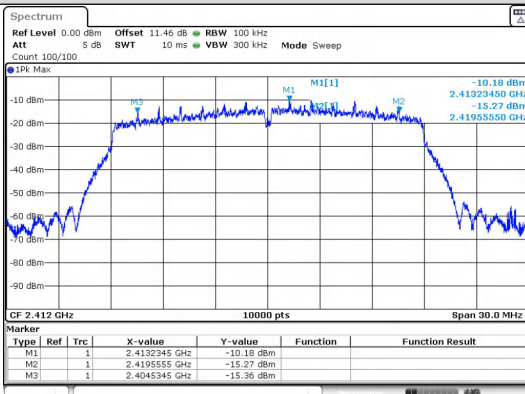
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IEEE 802.11g_Channel 1_20MHz_Antenna 0



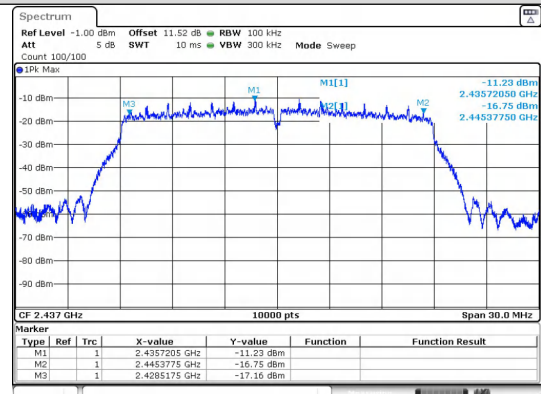
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



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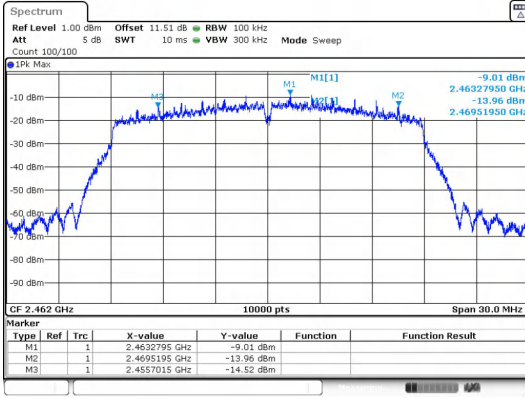
IEEE 802.11g_Channel 11_20MHz_Antenna 0



Date: 18.DEC.2024 10:21:43

IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



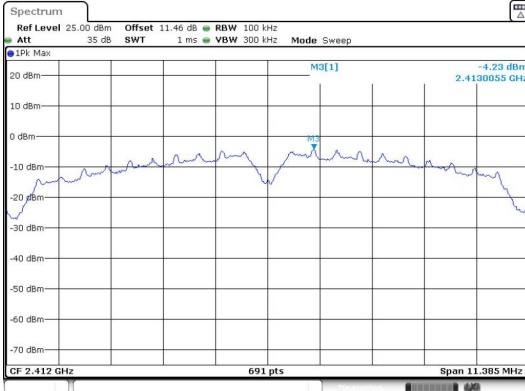
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

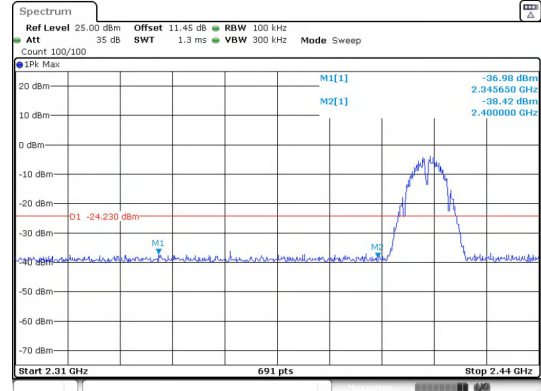
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2345.65	-36.978	-24.23	-12.748	PASS
			2400.00	-38.420	-24.23	-14.190	PASS
			6935.50	-43.010	-24.23	-18.780	PASS
	6		6961.26	-42.688	-23.41	-19.278	PASS
	11		2483.50	-38.560	-24.12	-14.440	PASS
			6185.52	-41.263	-24.12	-17.143	PASS
IEEE 802.11g	1		2387.60	-37.411	-29.97	-7.441	PASS
			2400.00	-38.030	-29.97	-8.060	PASS
			6933.00	-42.279	-29.97	-12.309	PASS
	6		6912.98	-43.316	-30.74	-12.576	PASS
	11		2483.50	-38.240	-29.42	-8.820	PASS
			22074.8	-42.660	-29.42	-13.240	PASS
IEEE 802.11n_20	1		2390.99	-37.050	-29.85	-7.200	PASS
			2400.00	-38.340	-29.85	-8.490	PASS
			6950.40	-43.344	-29.85	-13.494	PASS
	6		22054.0	-42.668	-30.85	-11.818	PASS
	11		2483.50	-37.920	-29.36	-8.560	PASS
			6898.00	-43.315	-29.36	-13.955	PASS

Test Graphs



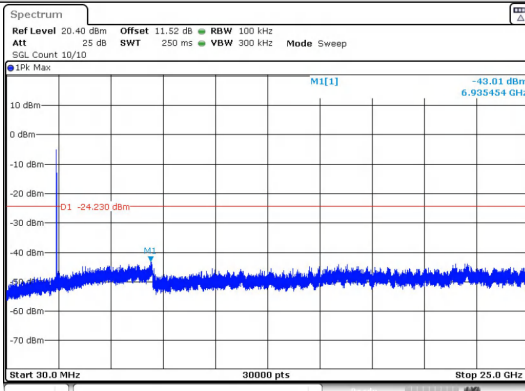
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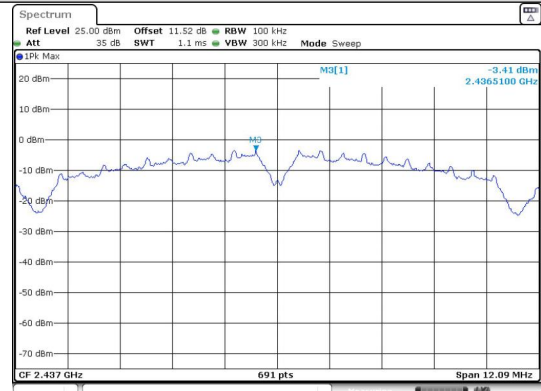
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In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



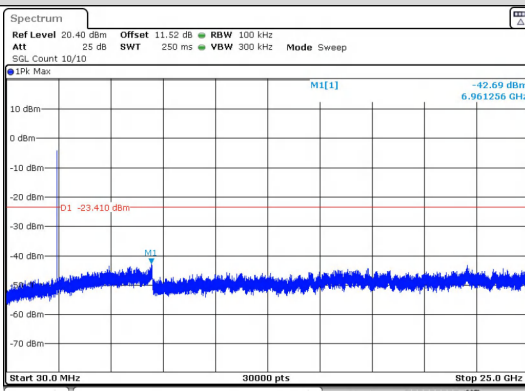
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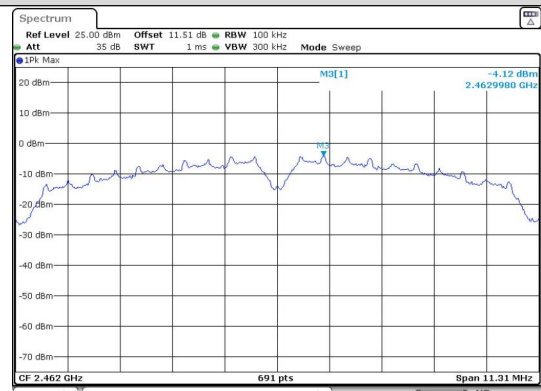
Date: 18.DEC.2024 10:01:03

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



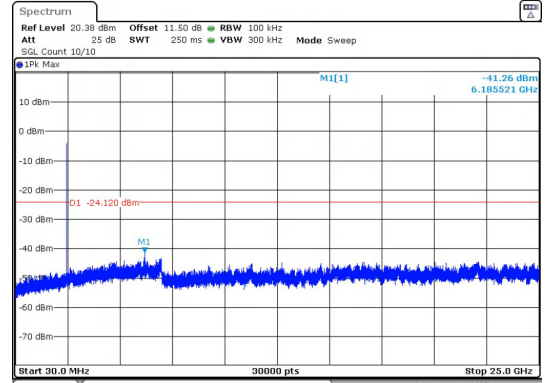
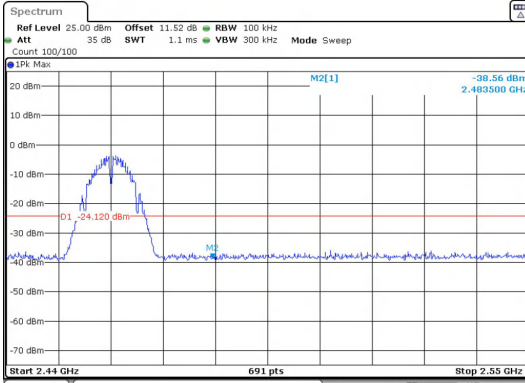
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Date: 18.DEC.2024 10:03:51

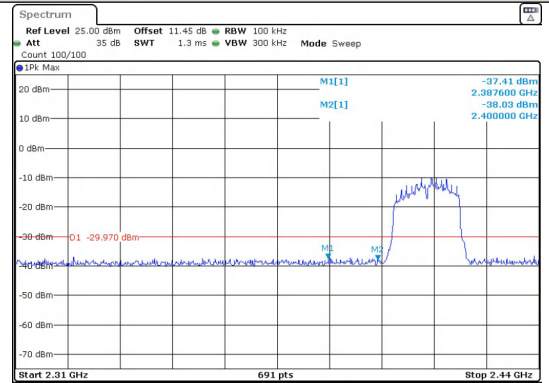
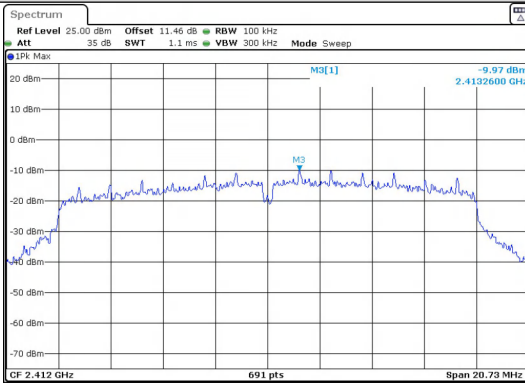
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



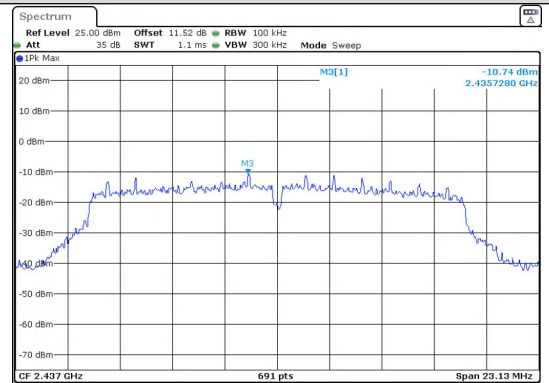
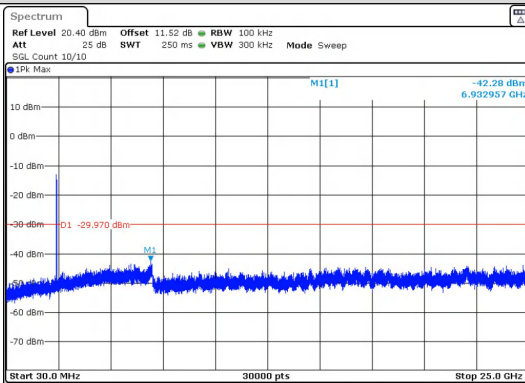
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



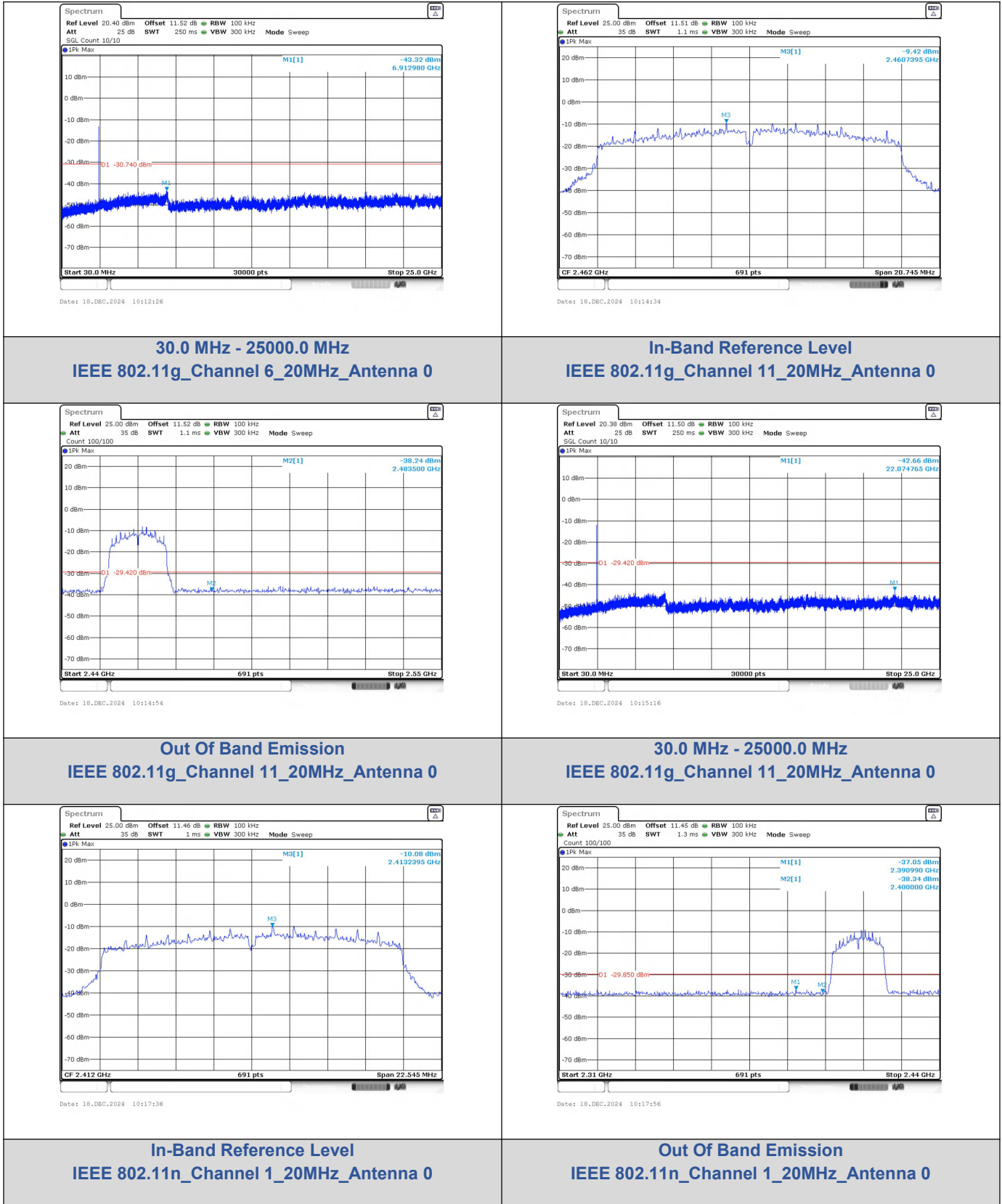
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

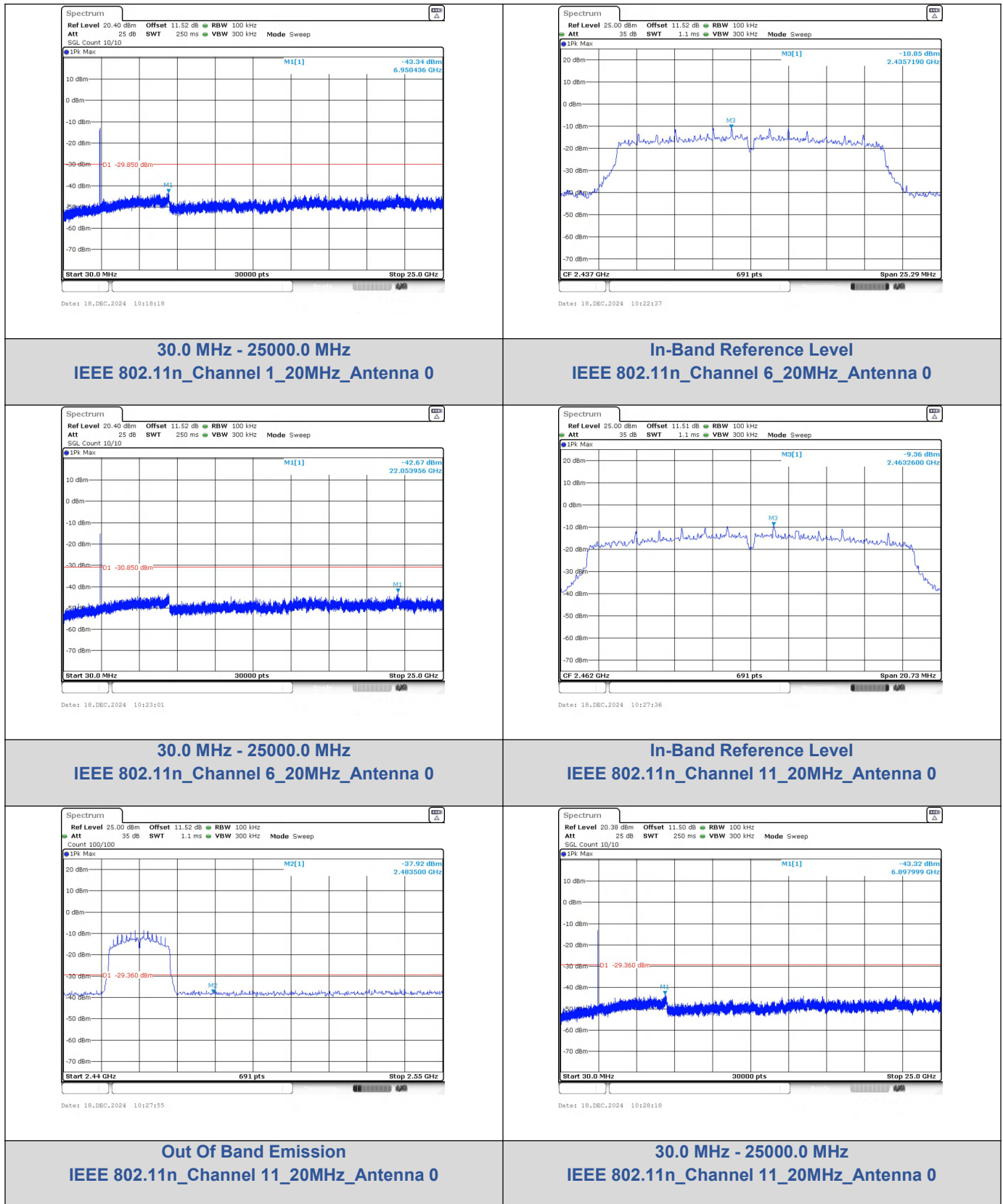
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



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





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