

Appendix

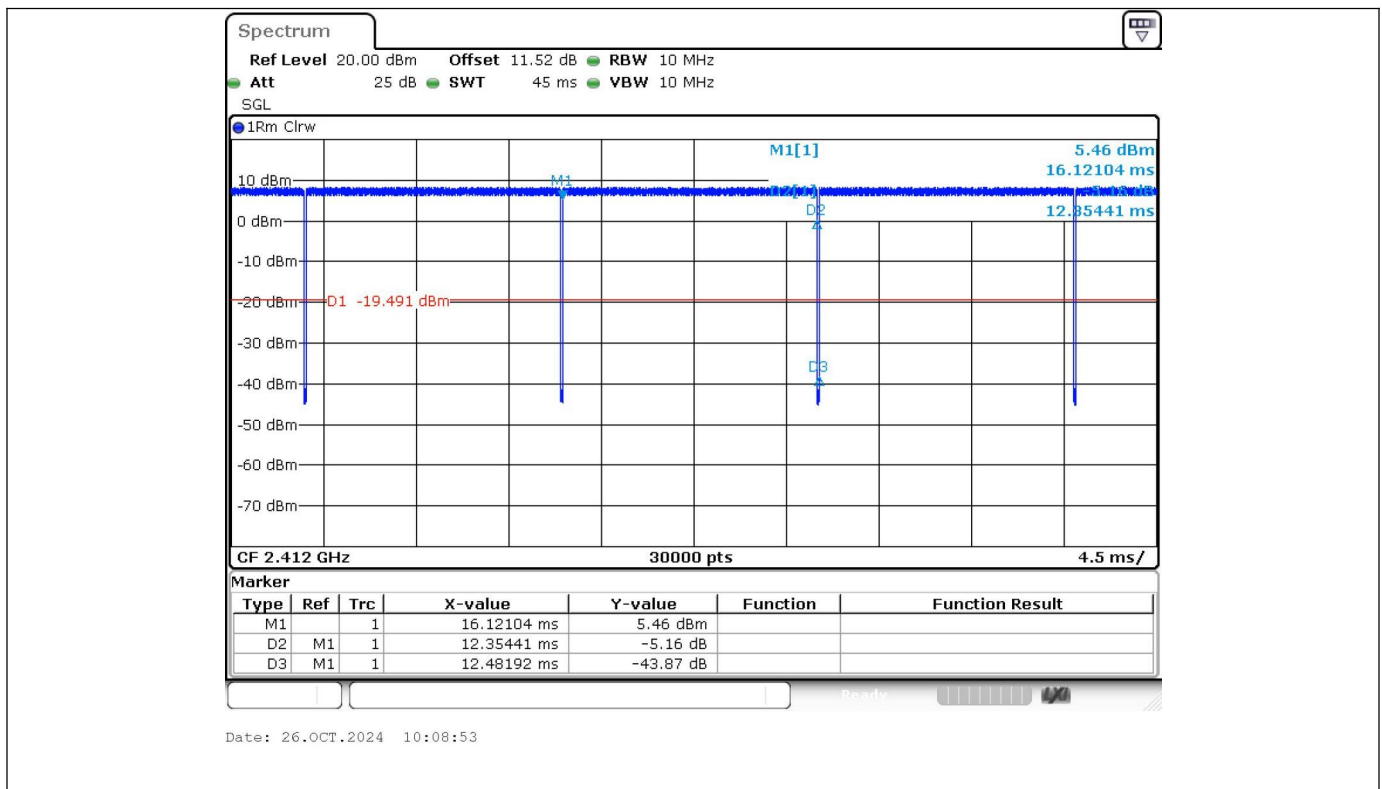
Report No.:	CISRR24092927801
FCC ID:	2BLGM-A29
Product Name:	Surveillance camera
Model No.:	A29
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

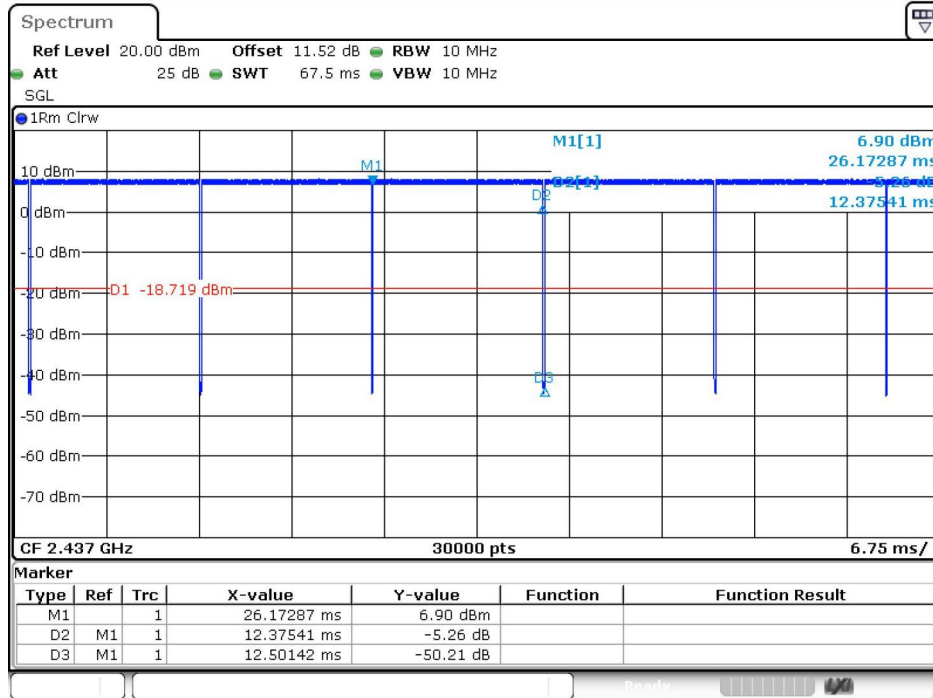
Test Result

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	12.354	12.482	98.98	0.9898	0.0445	0.0809
		6		12.375	12.501	98.99	0.9899	0.0441	0.0808
		11		12.375	12.504	98.97	0.9897	0.045	0.0808
1		2.068		2.195	94.21	0.9421	0.259	0.4836	
6		2.068		2.195	94.21	0.9421	0.259	0.4836	
11		2.068		2.195	94.21	0.9421	0.259	0.4836	
IEEE 802.11g	MCS 0	1		1.924	2.051	93.81	0.9381	0.2775	0.5198
		6		1.924	2.051	93.81	0.9381	0.2775	0.5198
		11		1.924	2.051	93.81	0.9381	0.2775	0.5198

Test Graphs

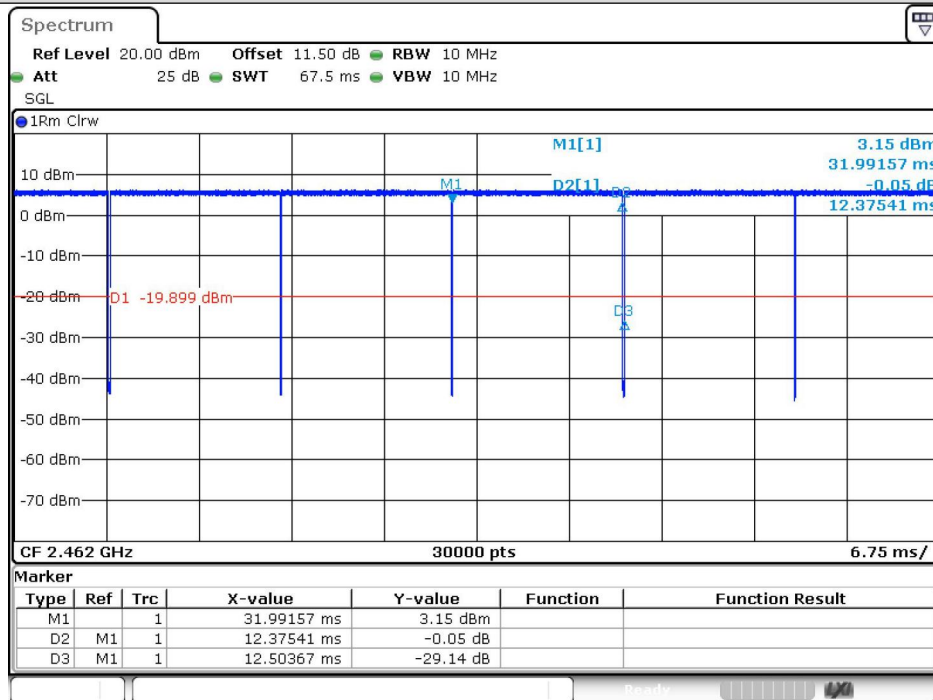


IEEE 802.11b_20MHz_Channel 1



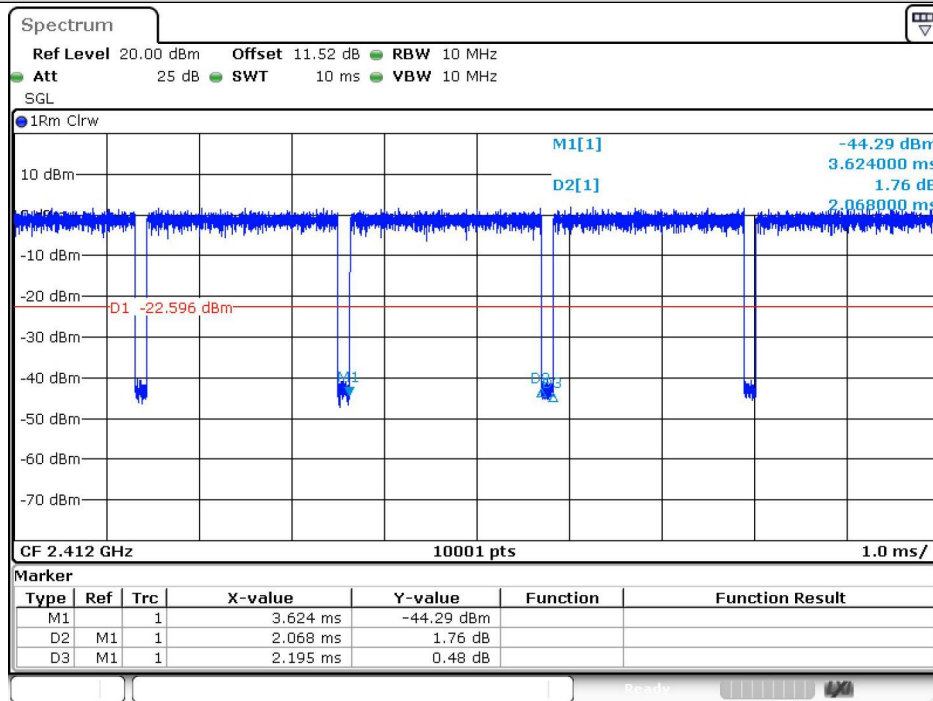
Date: 26.OCT.2024 10:12:15

IEEE 802.11b_20MHz_Channel 6



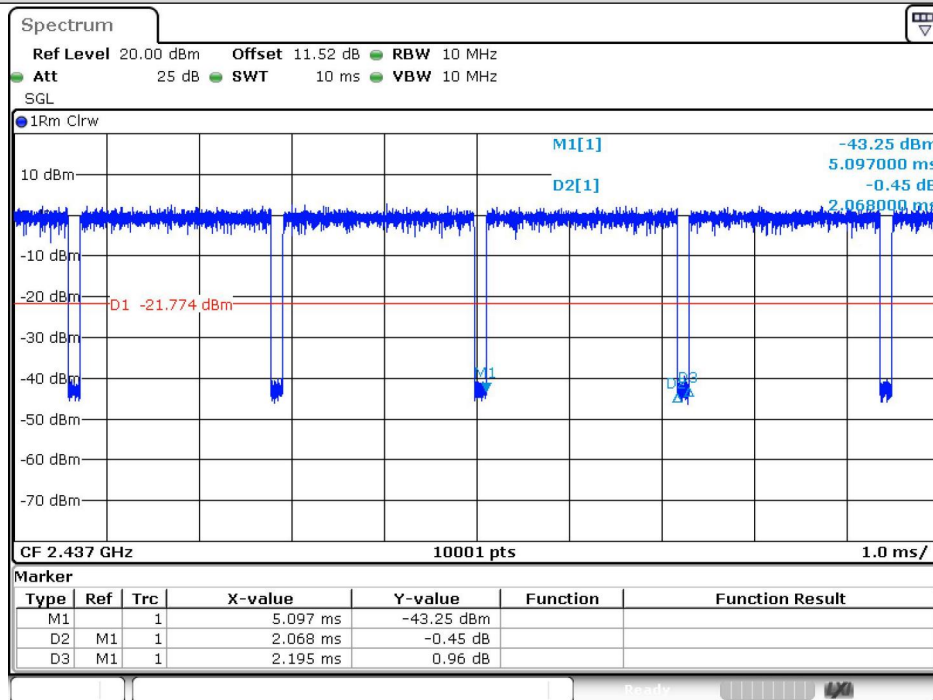
Date: 26.OCT.2024 10:21:27

IEEE 802.11b_20MHz_Channel 11



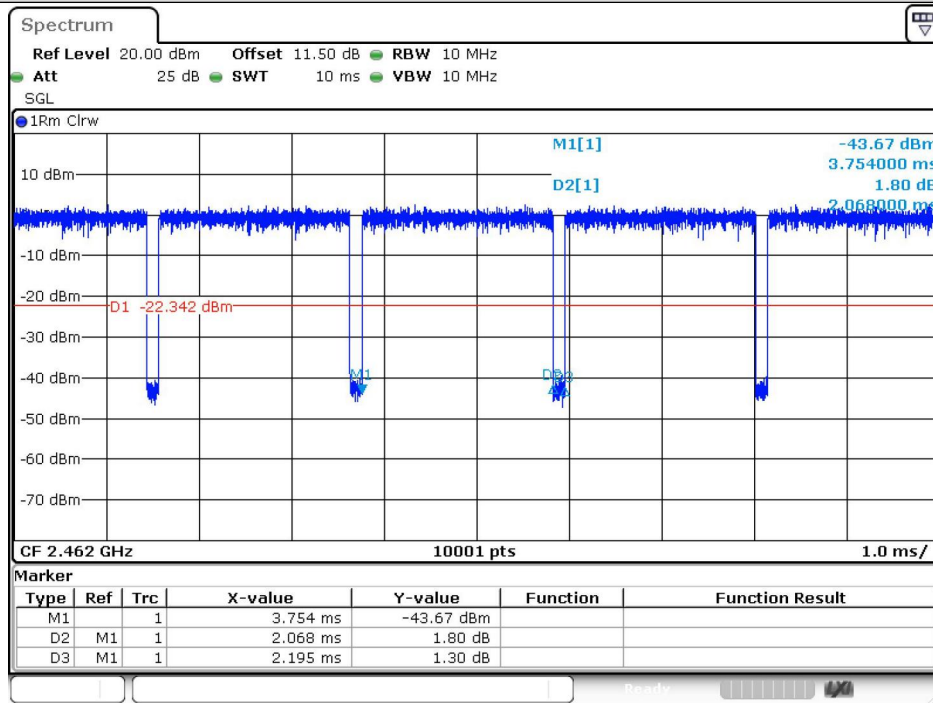
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IEEE 802.11g_20MHz_Channel 1



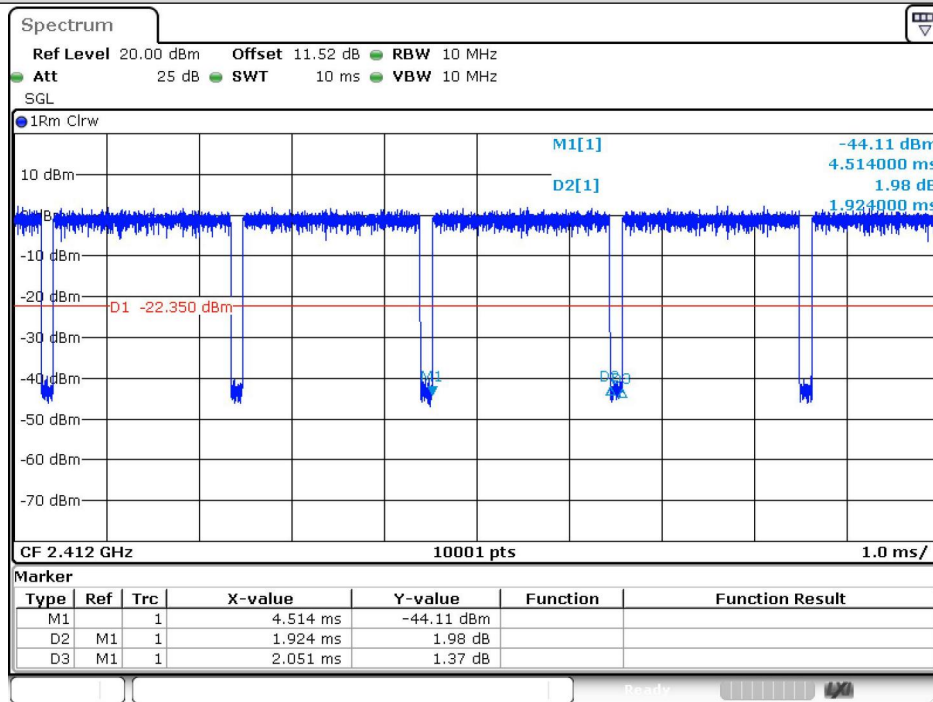
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IEEE 802.11g_20MHz_Channel 6



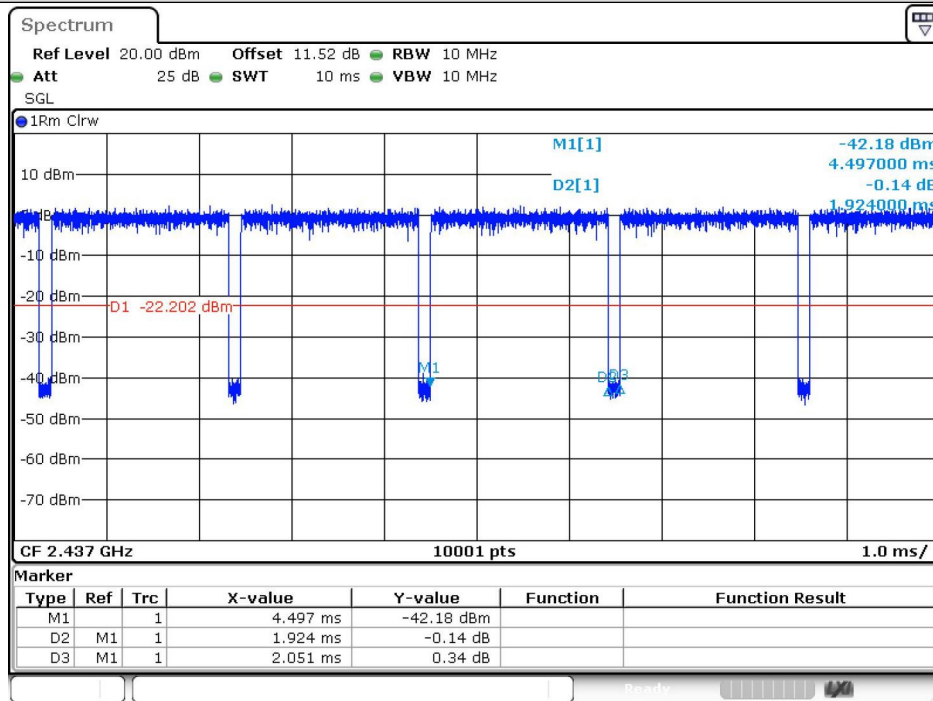
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IEEE 802.11g_20MHz_Channel 11



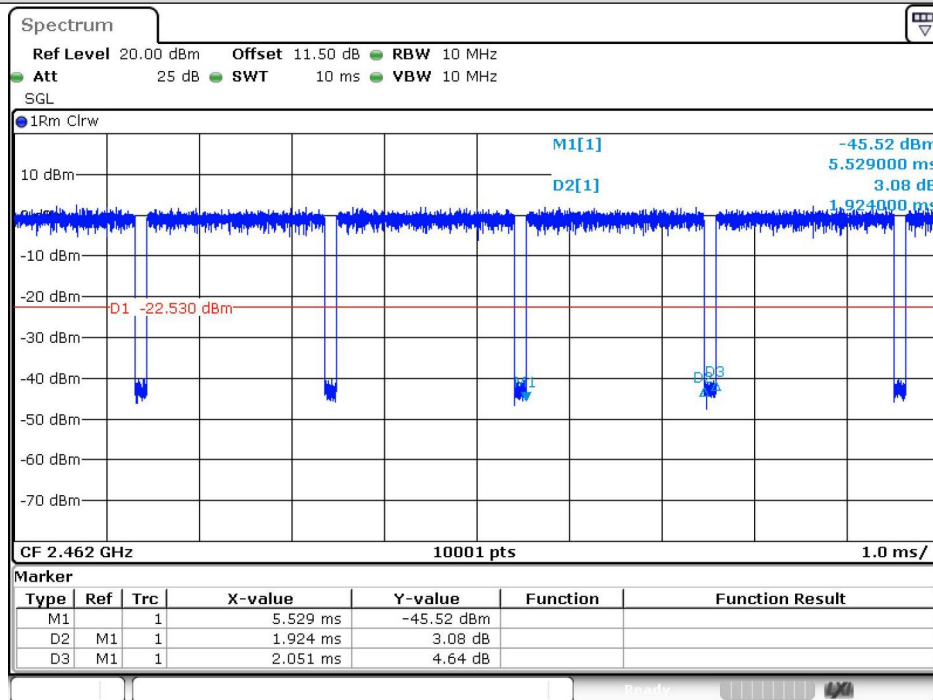
Date: 26.OCT.2024 10:34:29

IEEE 802.11n_20MHz_Channel 1



Date: 26.OCT.2024 10:49:27

IEEE 802.11n_20MHz_Channel 6



Date: 26.OCT.2024 10:51:50

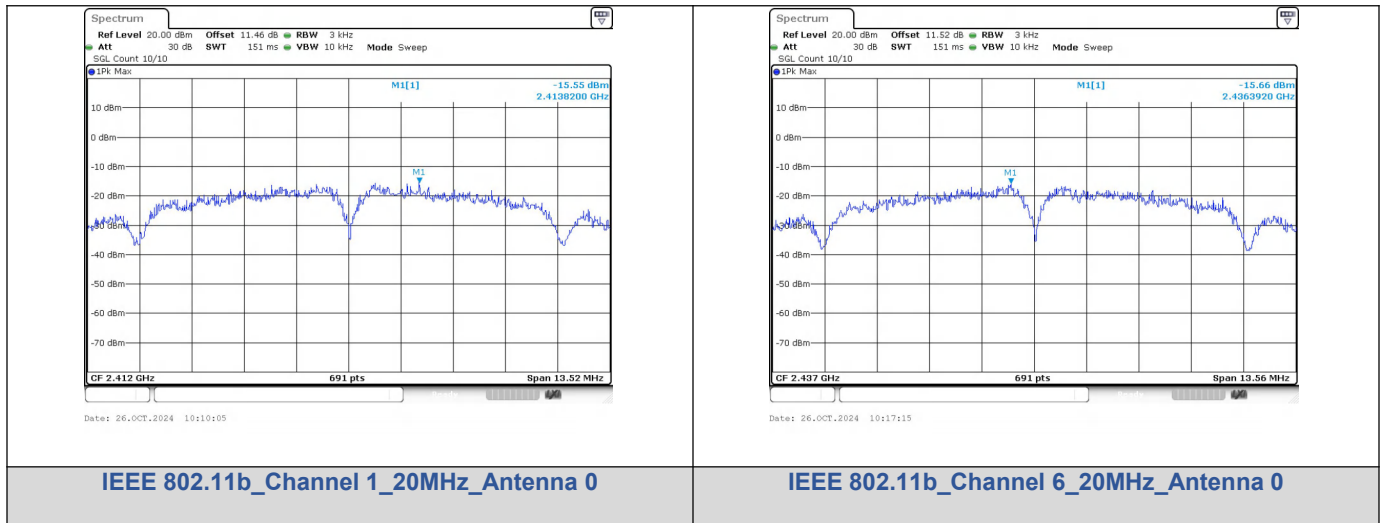
IEEE 802.11n_20MHz_Channel 11

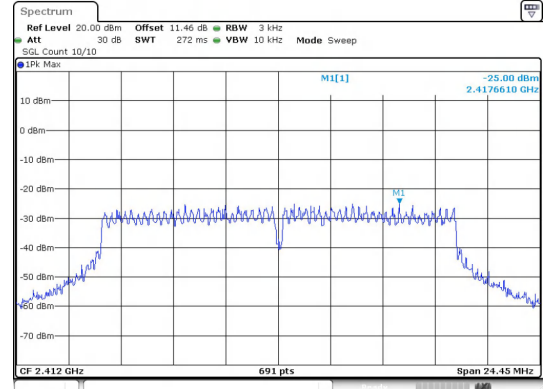
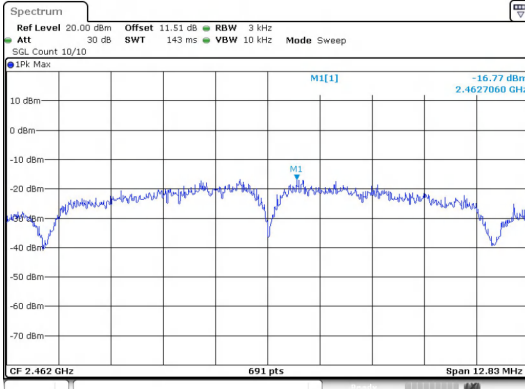
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-15.550	≤8	PASS
	6	-15.657		PASS
	11	-16.775		PASS
IEEE 802.11g	1	-24.996		PASS
	6	-24.765		PASS
	11	-24.778		PASS
IEEE 802.11n_20	1	-24.939		PASS
	6	-23.762		PASS
	11	-25.049		PASS

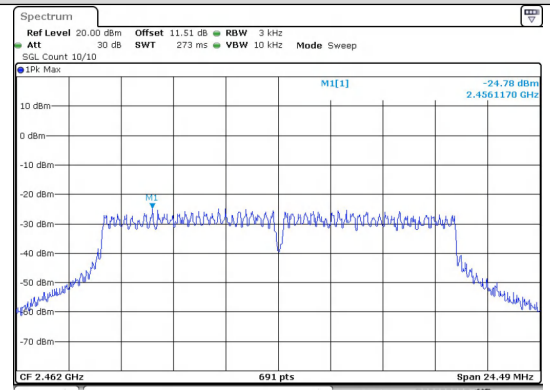
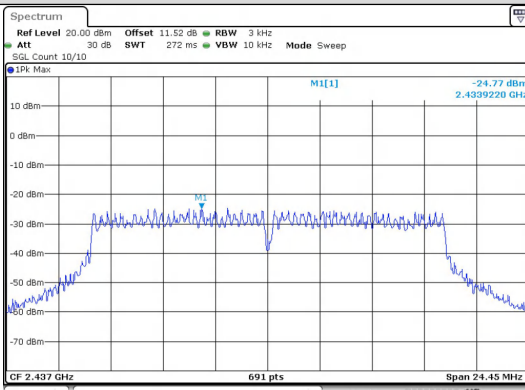
Test Graphs





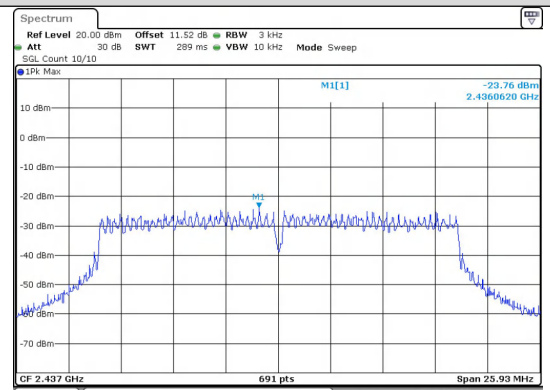
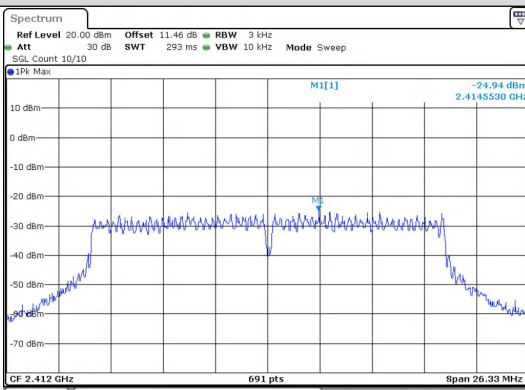
IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



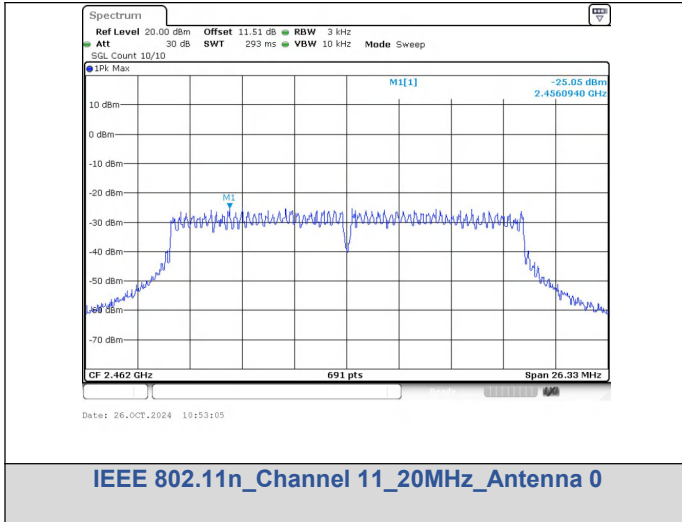
IEEE 802.11g_Channel 6_20MHz_Antenna 0

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 Peak Output Power

Test Result

Conducted Output Power

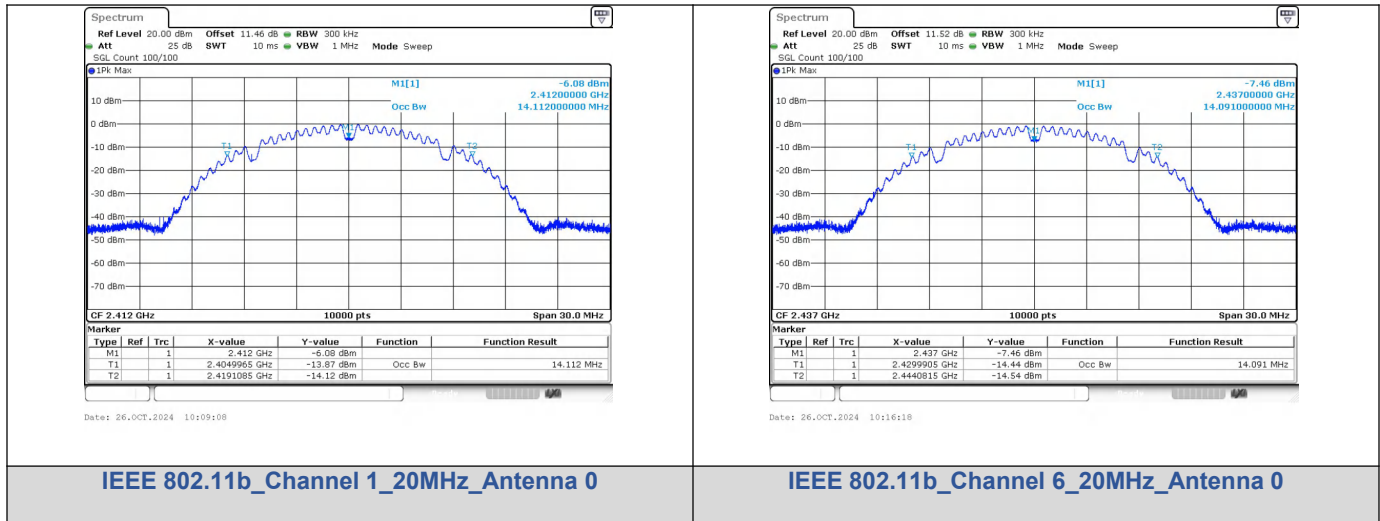
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	9.42	≤30	PASS
	6	9.98	≤30	PASS
	11	8.83	≤30	PASS
IEEE 802.11g	1	8.77	≤30	PASS
	6	9.24	≤30	PASS
	11	9.18	≤30	PASS
IEEE 802.11n_20	1	8.93	≤30	PASS
	6	9.32	≤30	PASS
	11	9.22	≤30	PASS

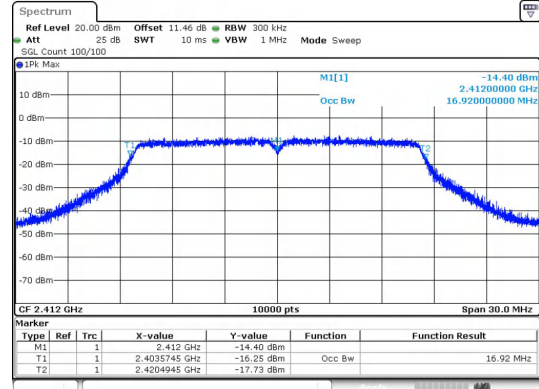
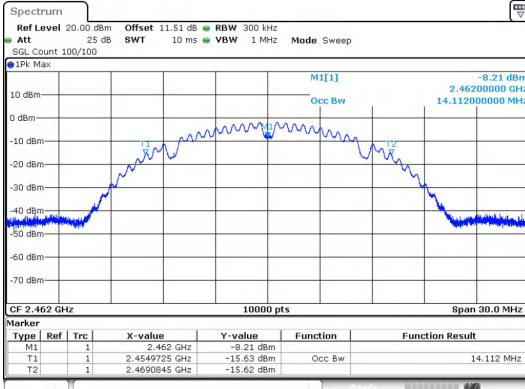
99% Bandwidth

Test Result

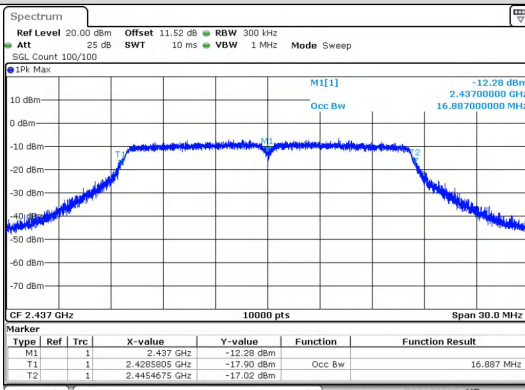
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	14.112
	6		2437	14.091
	11		2462	14.112
IEEE 802.11g	1		2412	16.920
	6		2437	16.887
	11		2462	16.917
IEEE 802.11n_20	1		2412	18.021
	6		2437	17.988
	11		2462	17.991

Test Graphs

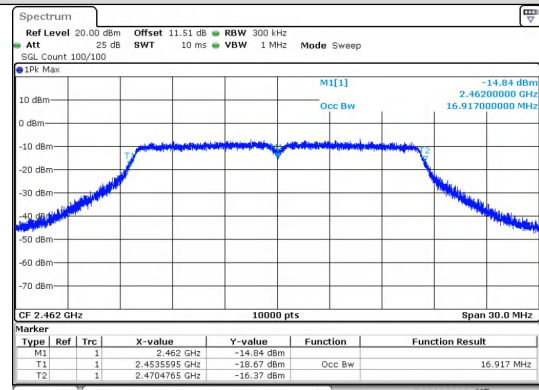




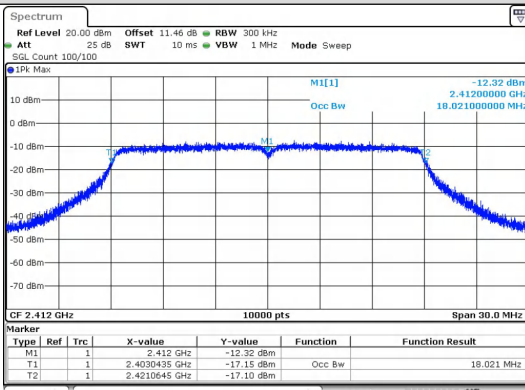
IEEE 802.11b_Channel 11_20MHz_Antenna 0



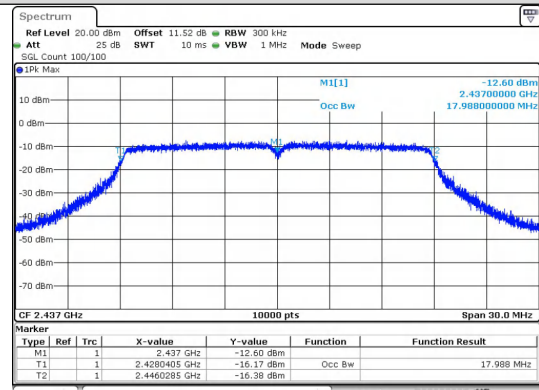
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

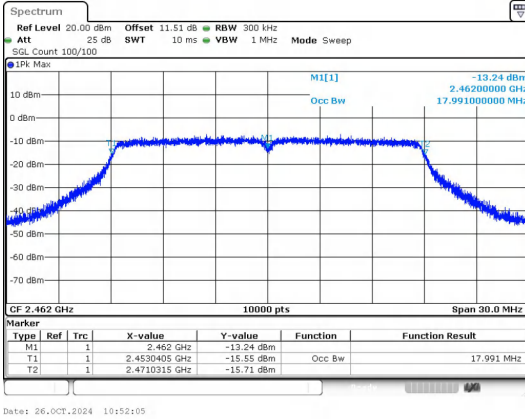


IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



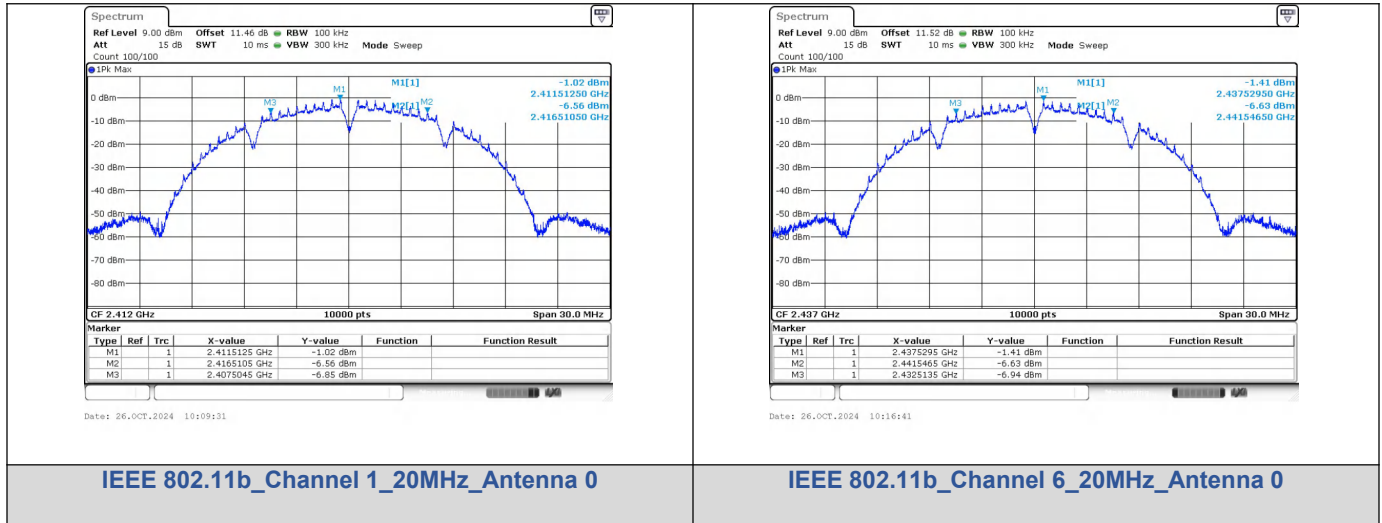
IEEE 802.11n_Channel 11_20MHz_Antenna 0

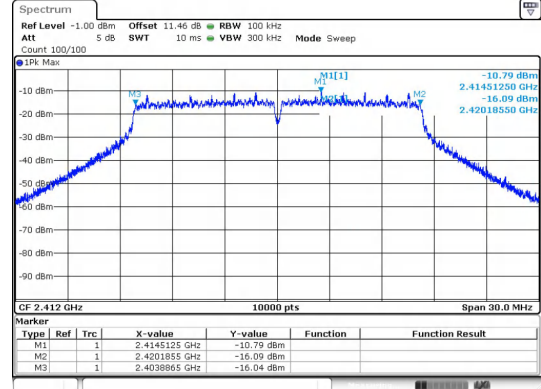
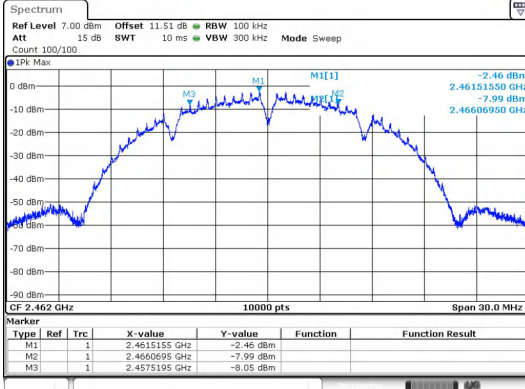
6dB Bandwidth

Test Result

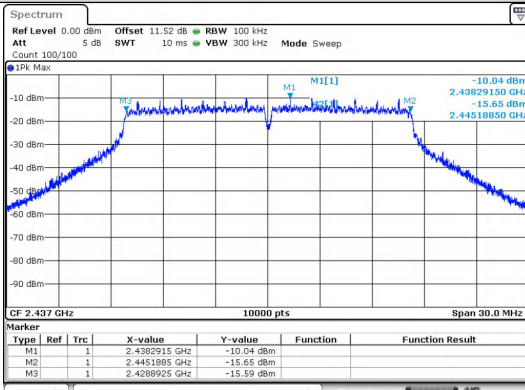
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.010	≥0.5	PASS
	6		2437	9.040		PASS
	11		2462	8.550		PASS
IEEE 802.11g	1		2412	16.30		PASS
	6		2437	16.30		PASS
	11		2462	16.33		PASS
IEEE 802.11n_20	1		2412	17.55		PASS
	6		2437	17.29		PASS
	11		2462	17.55		PASS

Test Graphs

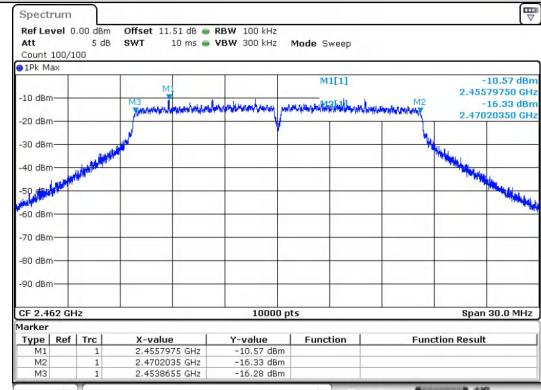




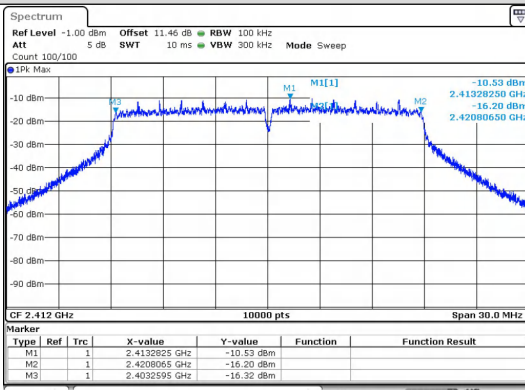
IEEE 802.11b_Channel 11_20MHz_Antenna 0



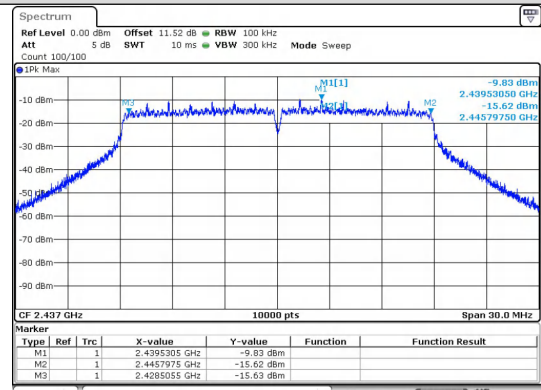
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

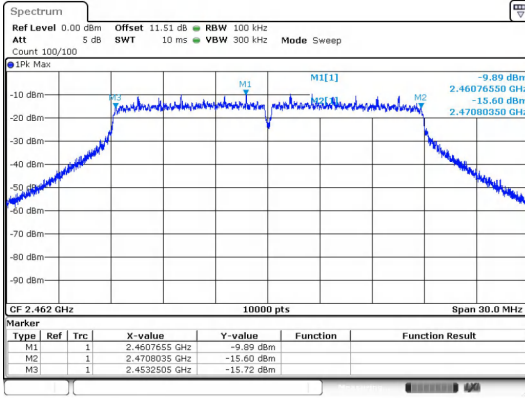


IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



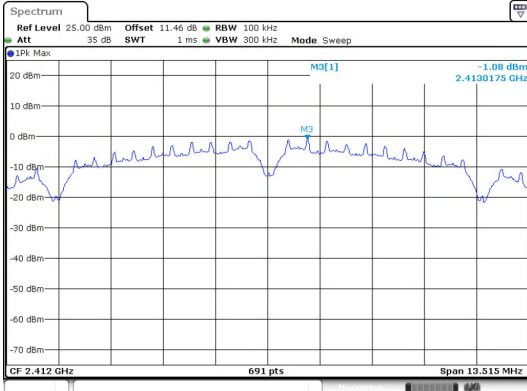
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

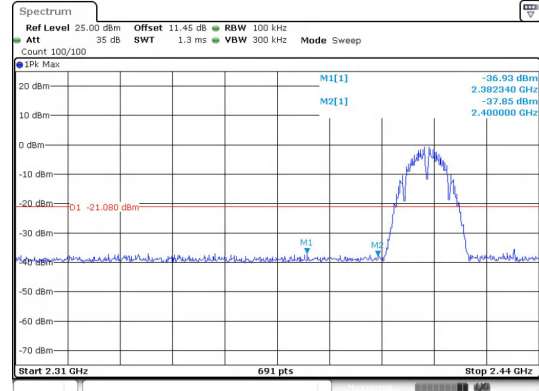
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2382.34	-36.932	-21.08	-15.852	PASS
			2400.00	-37.854	-21.08	-16.774	PASS
			6296.20	-43.161	-21.08	-22.081	PASS
	6		6011.56	-42.467	-21.66	-20.807	PASS
	11		2483.50	-38.241	-22.56	-15.681	PASS
			18289.3	-43.220	-22.56	-20.660	PASS
IEEE 802.11g	1		2381.21	-36.590	-30.6	-5.990	PASS
			2400.00	-38.440	-30.6	-7.840	PASS
			6967.10	-42.786	-30.6	-12.186	PASS
	6		22049.8	-43.068	-30.3	-12.768	PASS
	11		2483.50	-38.519	-30.24	-8.279	PASS
			21938.3	-43.236	-30.24	-12.996	PASS
IEEE 802.11n_20	1		2312.73	-36.930	-30.53	-6.400	PASS
			2400.00	-37.671	-30.53	-7.141	PASS
			6295.40	-43.394	-30.53	-12.864	PASS
	6		6891.34	-43.112	-30.02	-13.092	PASS
	11		2483.50	-38.424	-30.51	-7.914	PASS
			6957.09	-41.989	-30.51	-11.479	PASS

Test Graphs



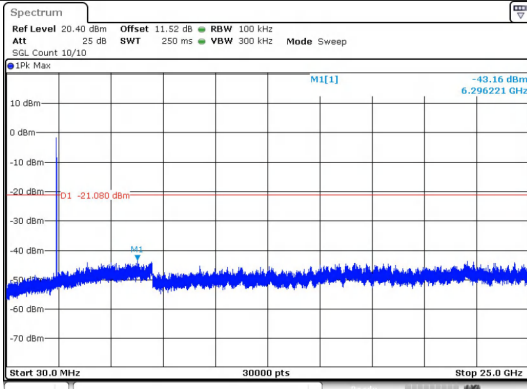
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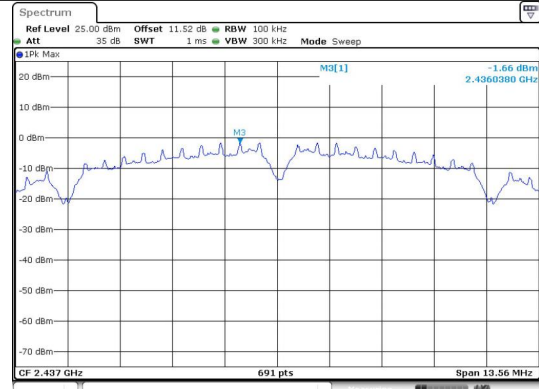
Date: 26.OCT.2024 10:10:40

In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



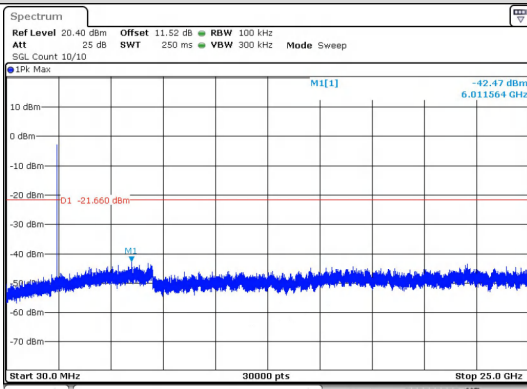
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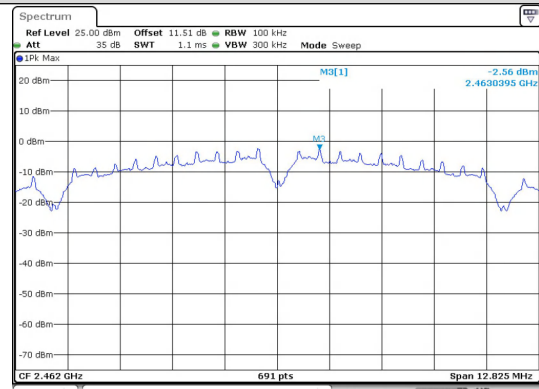
Date: 26.OCT.2024 10:17:31

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



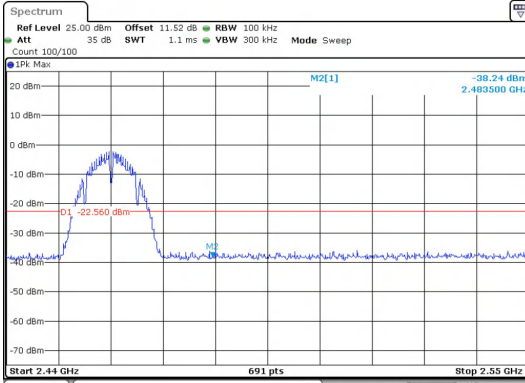
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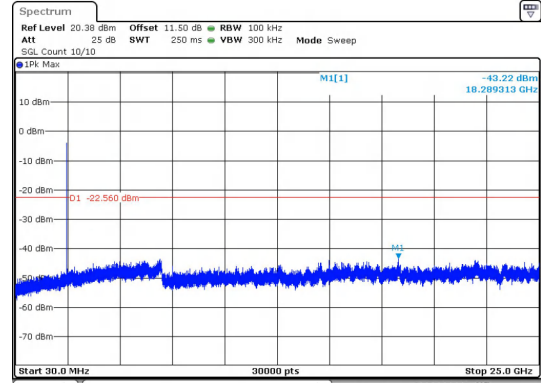
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



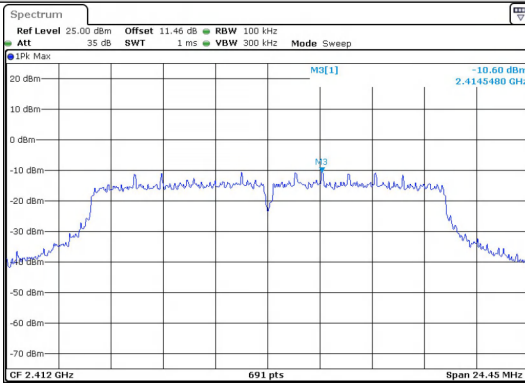
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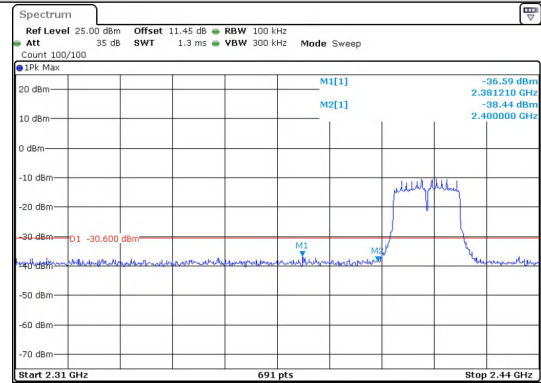
Date: 26.OCT.2024 10:23:17

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



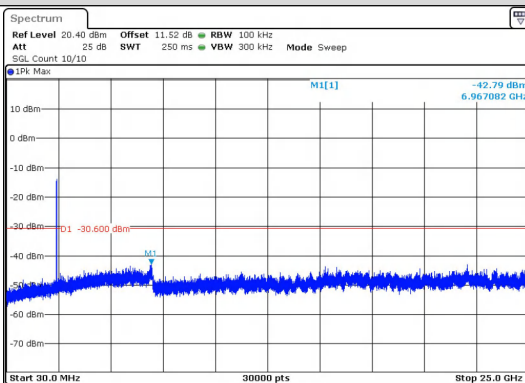
Date: 26.OCT.2024 10:26:20



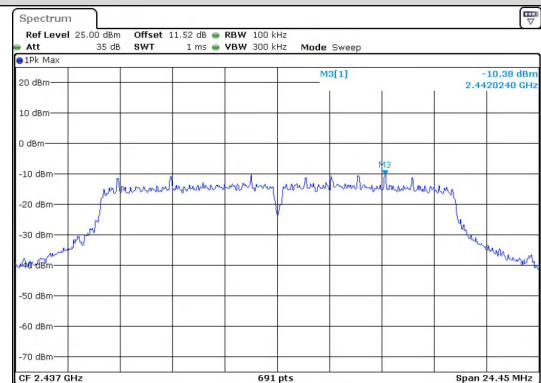
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In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



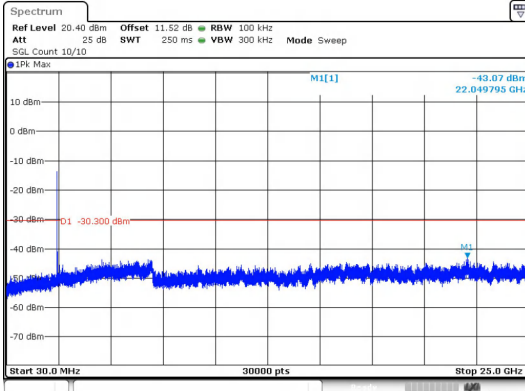
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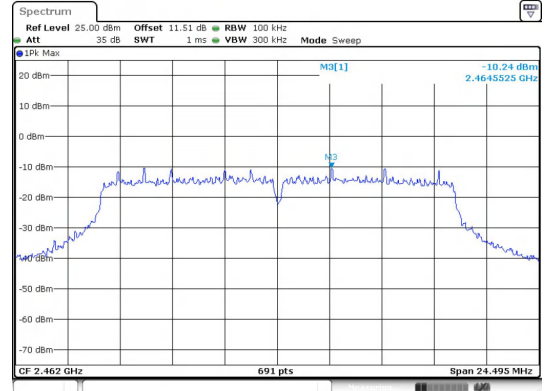
Date: 26.OCT.2024 10:29:28

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



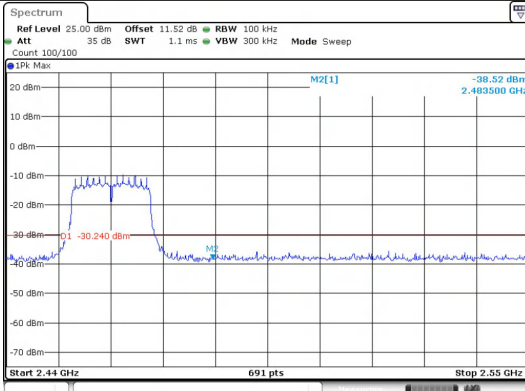
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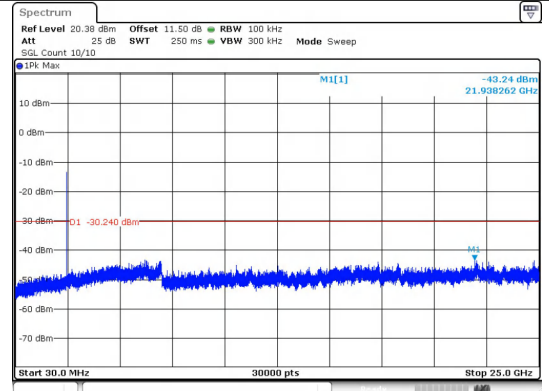
Date: 26.OCT.2024 10:32:50

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



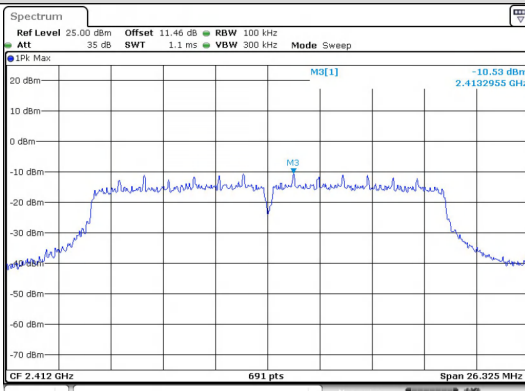
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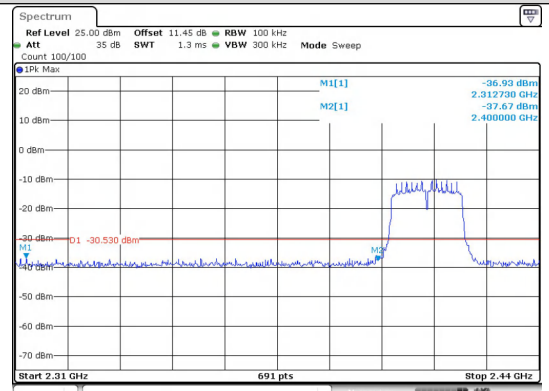
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Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



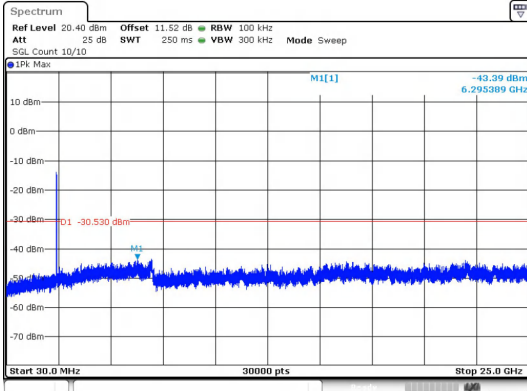
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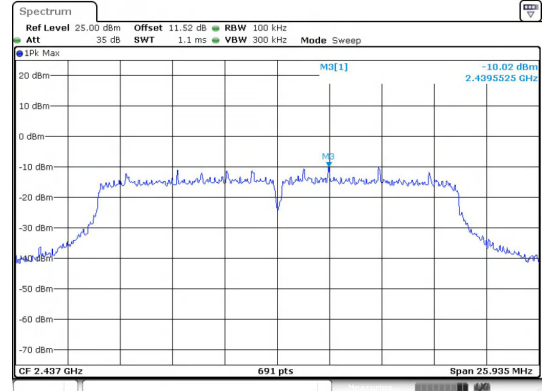
Date: 26.OCT.2024 10:36:18

In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0

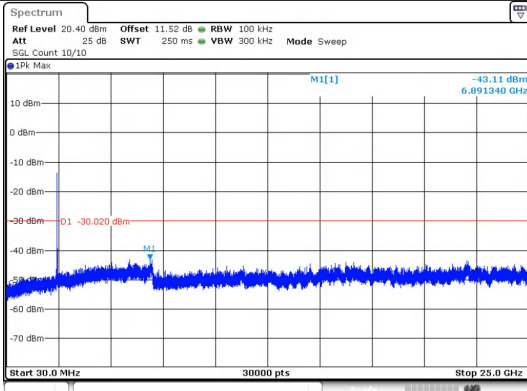
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



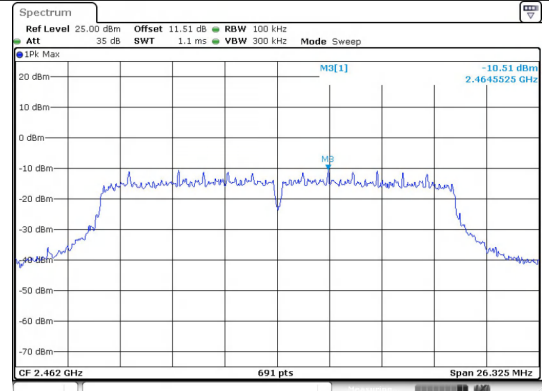
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



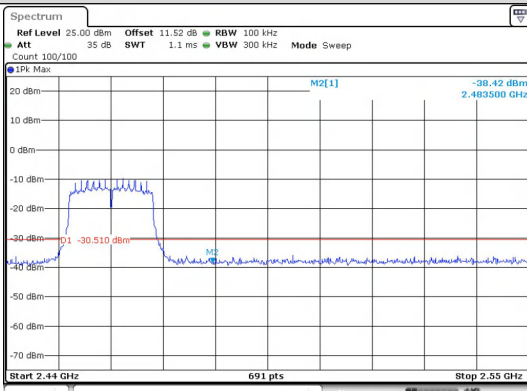
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



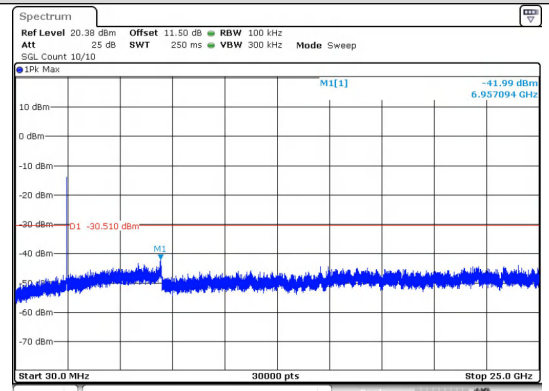
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



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