

Appendix A

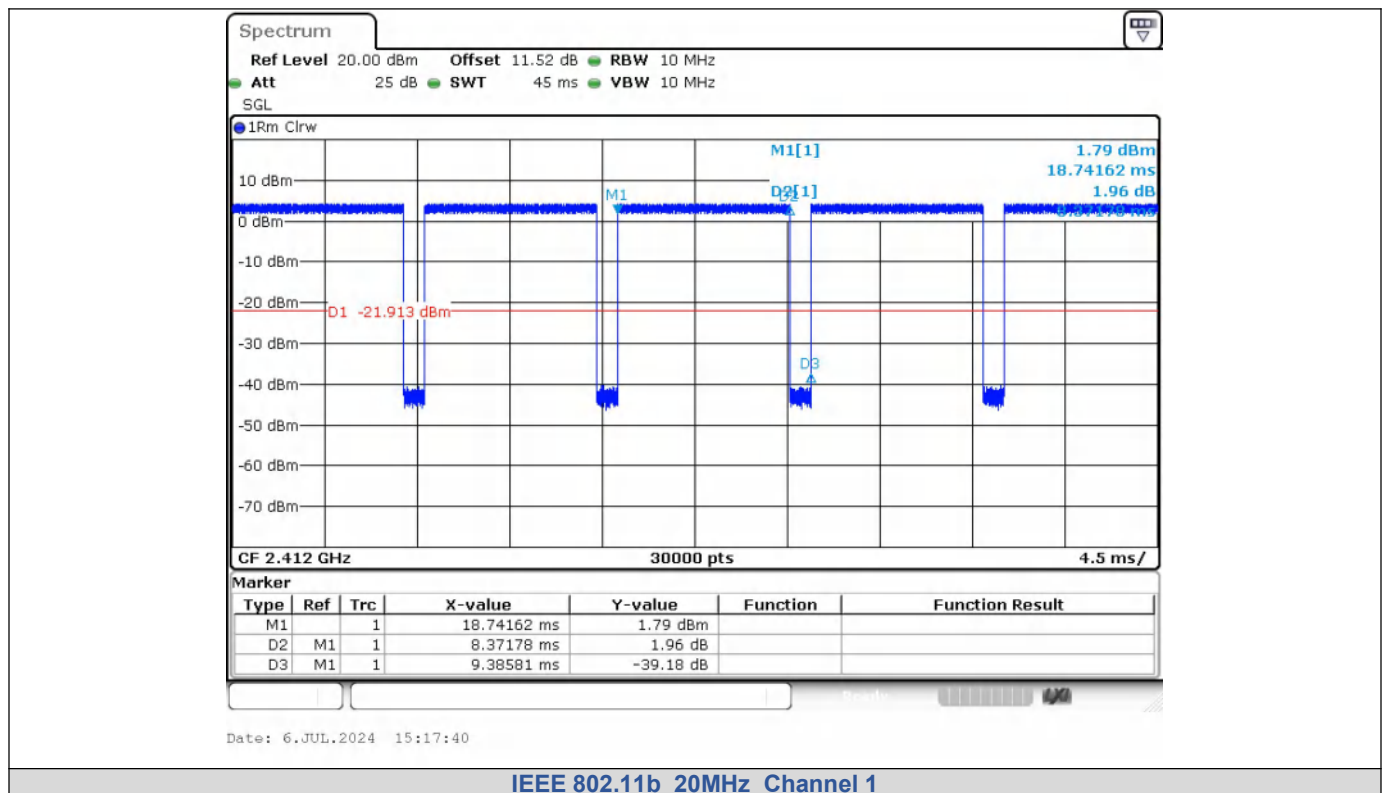
Report No.:	CISRR240703022
FCC ID:	2BHH2-M9
Product Name:	Smart camera
Model No.:	M9
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

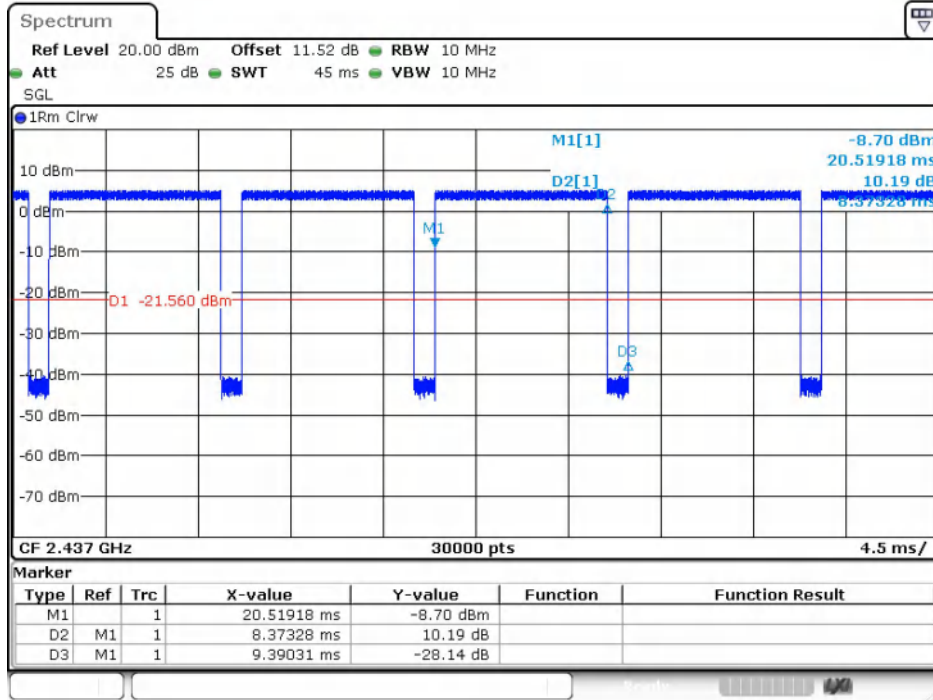
Duty Cycle

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	8.372	9.386	89.20	0.8920	0.4964	0.12
		6		8.373	9.390	89.17	0.8917	0.4978	0.12
		11		8.372	9.389	89.17	0.8917	0.4978	0.12
IEEE 802.11g		1		1.400	2.423	57.78	0.5778	2.3822	0.71
		6		1.400	2.423	57.78	0.5778	2.3822	0.71
		11		1.401	2.423	57.83	0.5783	2.3785	0.71
IEEE 802.11n_20	MCS 0	1		5.099	6.120	83.31	0.8331	0.793	0.20
		6		5.103	6.119	83.40	0.8340	0.7883	0.20
		11		5.100	6.112	83.43	0.8343	0.7868	0.20
IEEE 802.11n_40		3		4.911	5.930	82.81	0.8281	0.8192	0.20
		6		4.905	5.924	82.80	0.8280	0.8197	0.20
		9		4.905	5.929	82.73	0.8273	0.8234	0.20

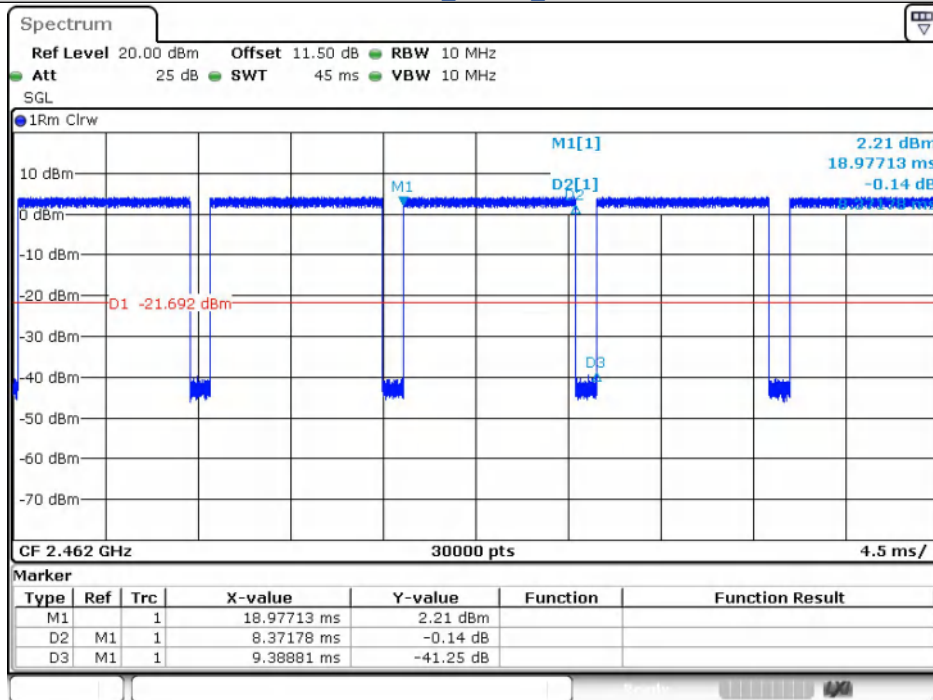
Test Graphs





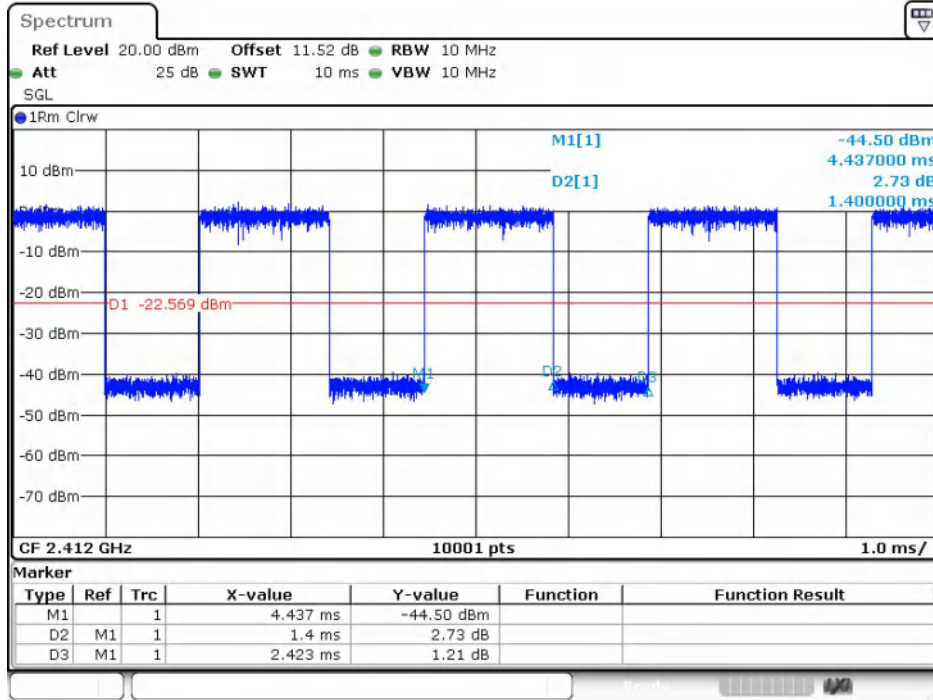
Date: 6.JUL.2024 15:21:14

IEEE 802.11b_20MHz_Channel 6



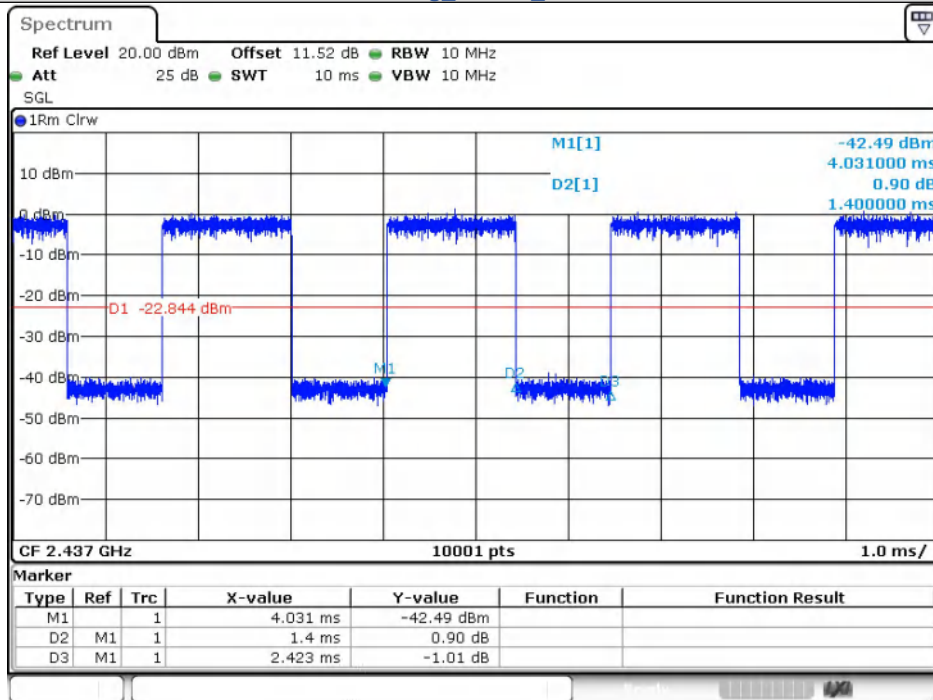
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IEEE 802.11b_20MHz_Channel 11



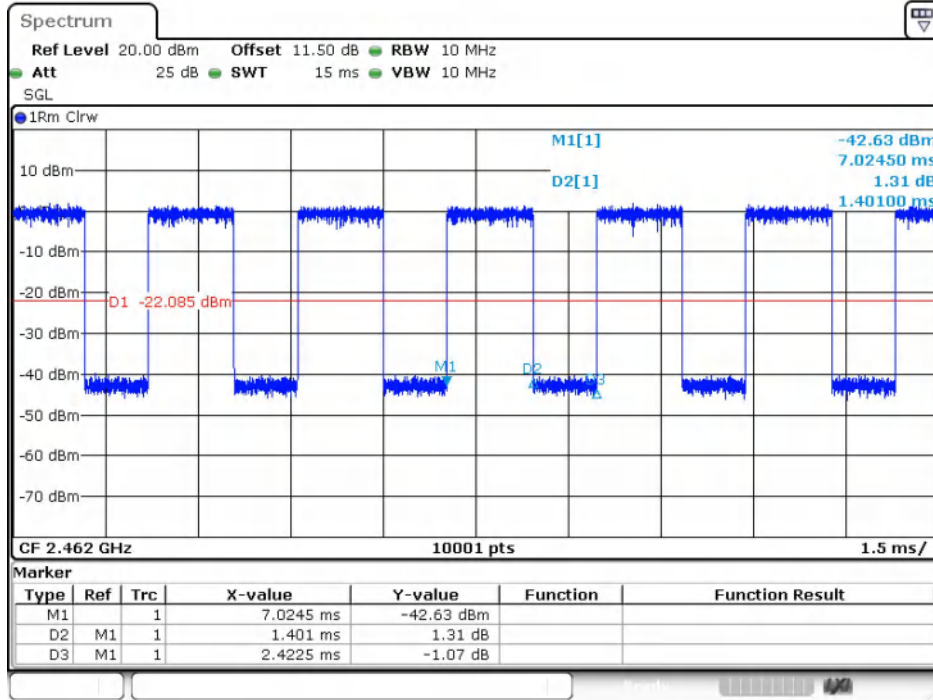
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IEEE 802.11g_20MHz_Channel 1



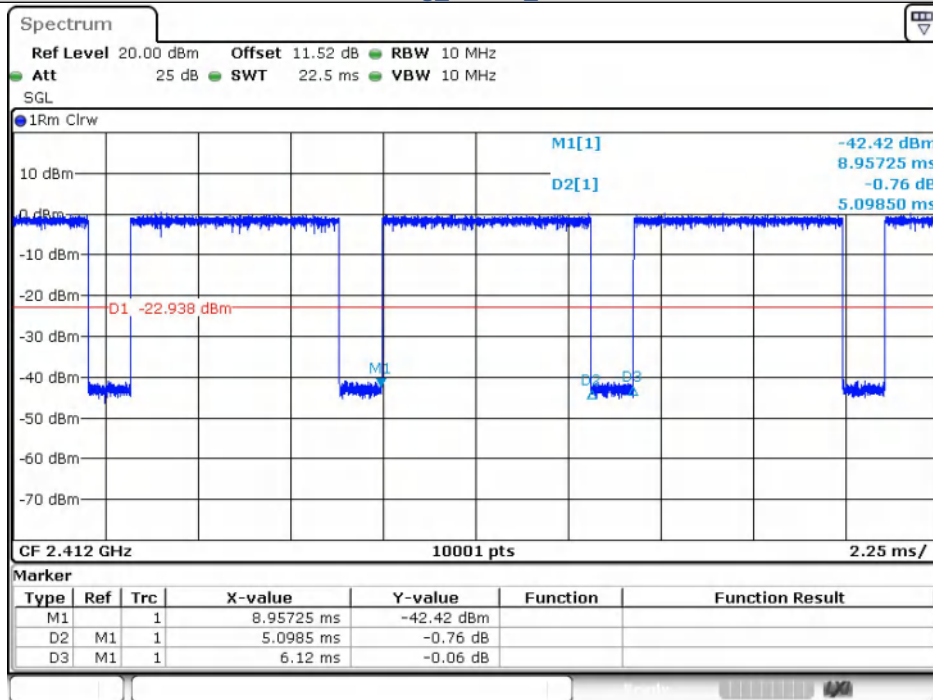
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IEEE 802.11g_20MHz_Channel 6



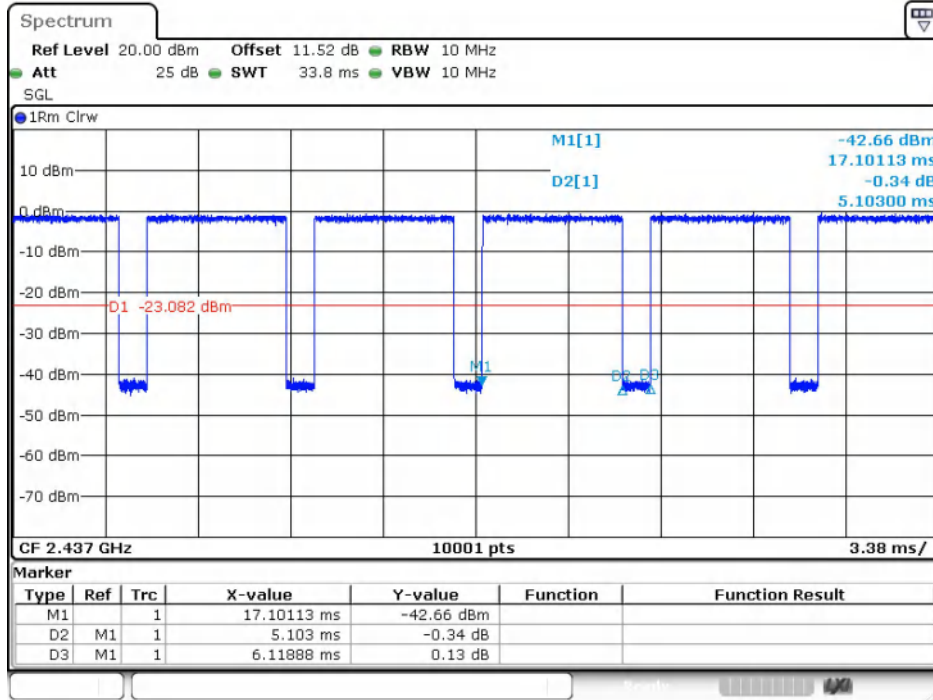
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IEEE 802.11g_20MHz_Channel 11

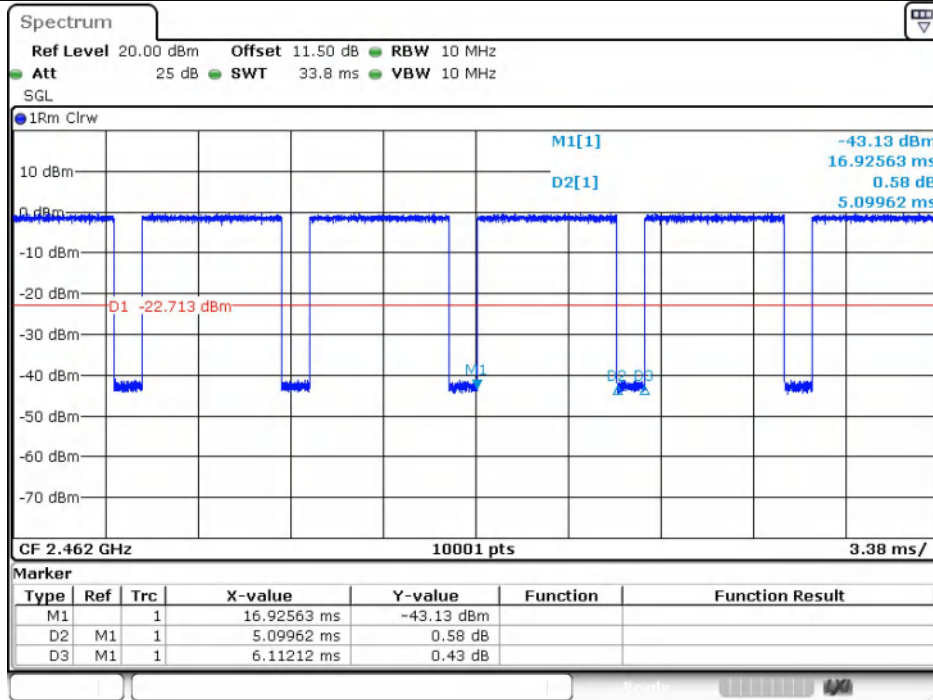


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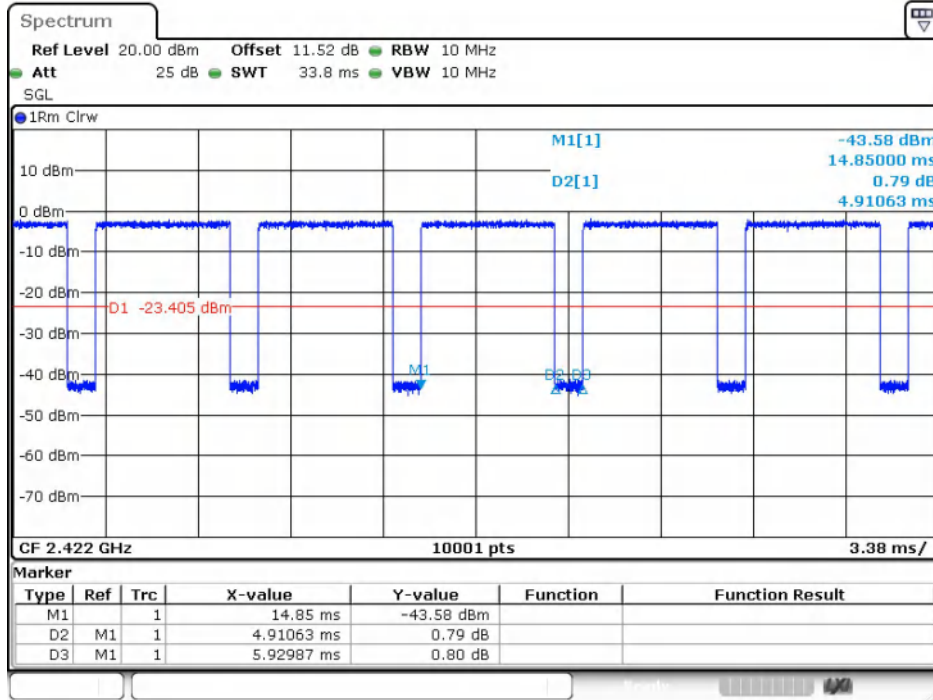
IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 6

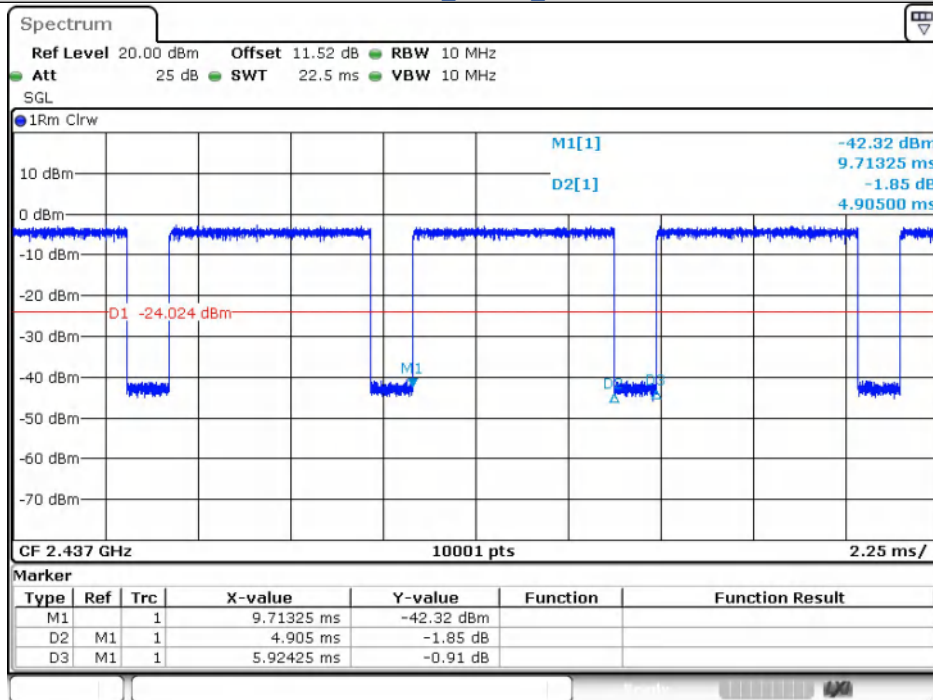


IEEE 802.11n_20MHz_Channel 11



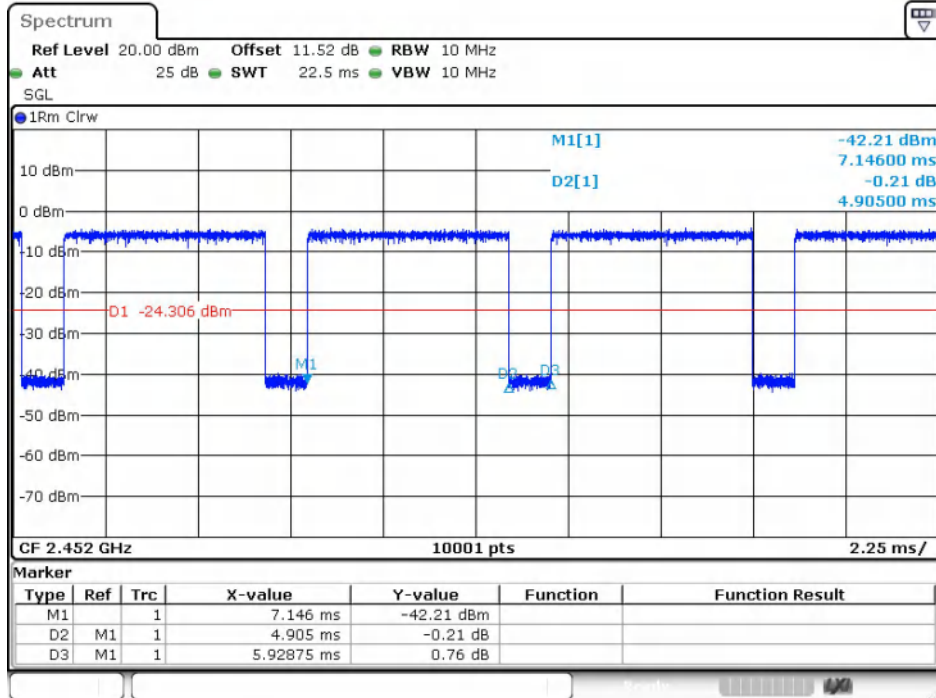
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IEEE 802.11n_40MHz_Channel 3



Date: 6.JUL.2024 15:47:14

IEEE 802.11n_40MHz_Channel 6



Date: 6.JUL.2024 15:49:54

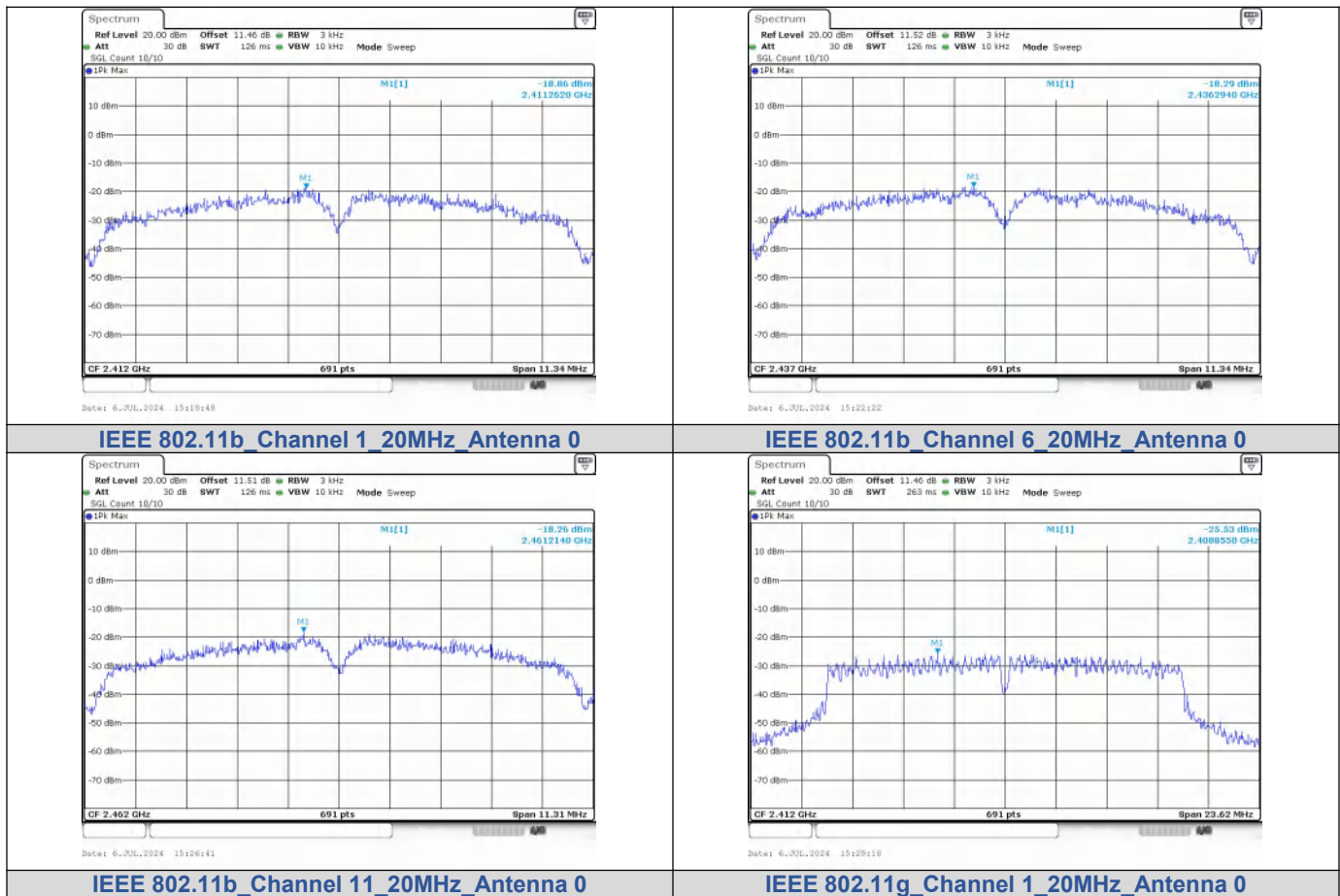
IEEE 802.11n_40MHz_Channel 9

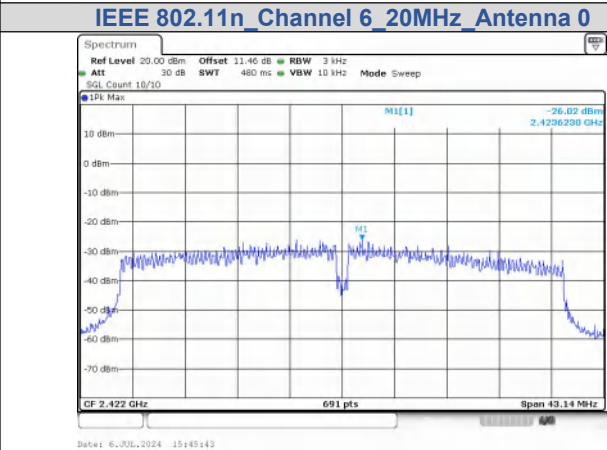
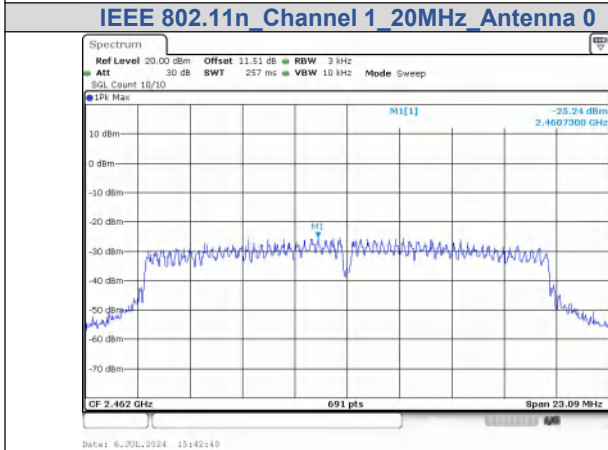
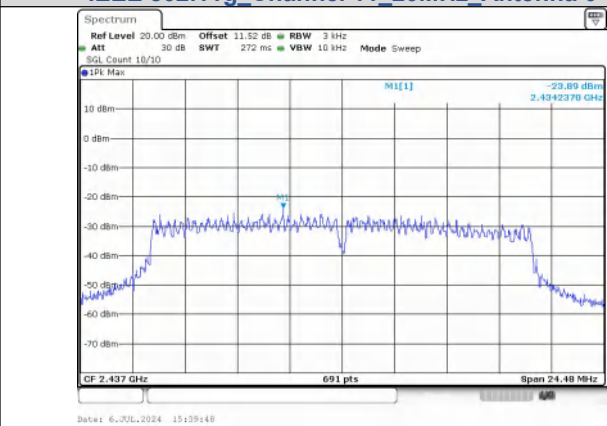
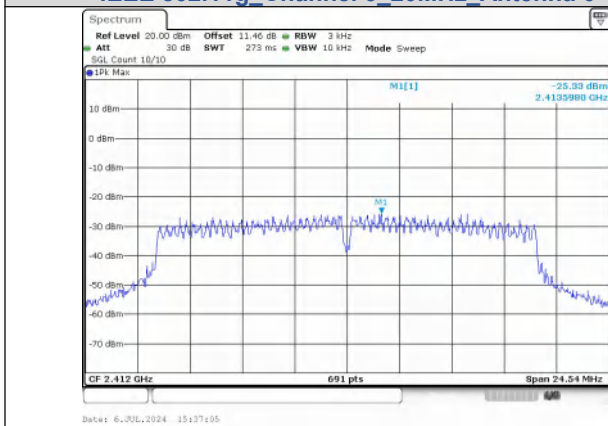
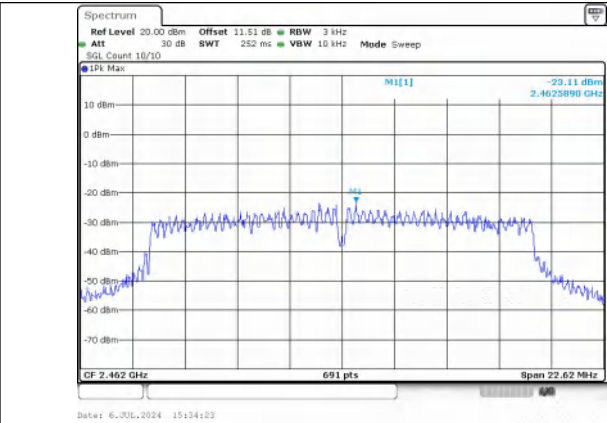
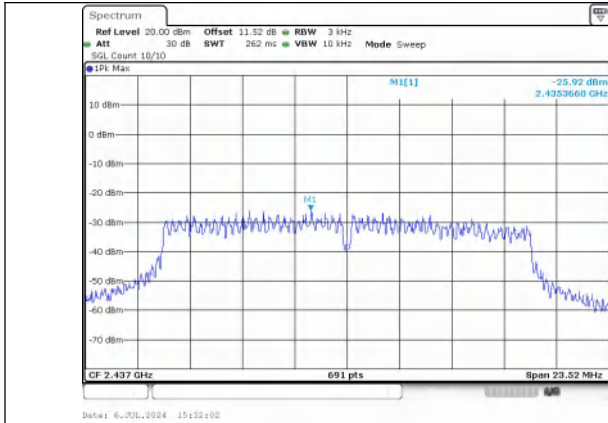
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-18.86	≤8	PASS
	6	-18.29		PASS
	11	-18.26		PASS
IEEE 802.11g	1	-25.53		PASS
	6	-25.92		PASS
	11	-23.11		PASS
IEEE 802.11n_20	1	-25.33		PASS
	6	-23.89		PASS
	11	-25.24		PASS
IEEE 802.11n_40	3	-26.02		PASS
	6	-27.09		PASS
	9	-29.45		PASS

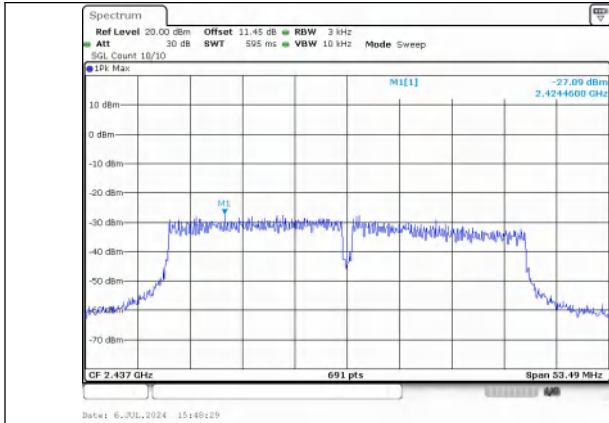
Test Graphs



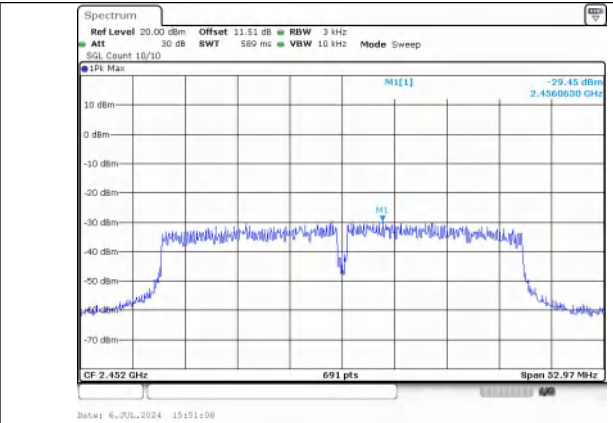


IEEE 802.11n Channel 11_20MHz_Antenna 0

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

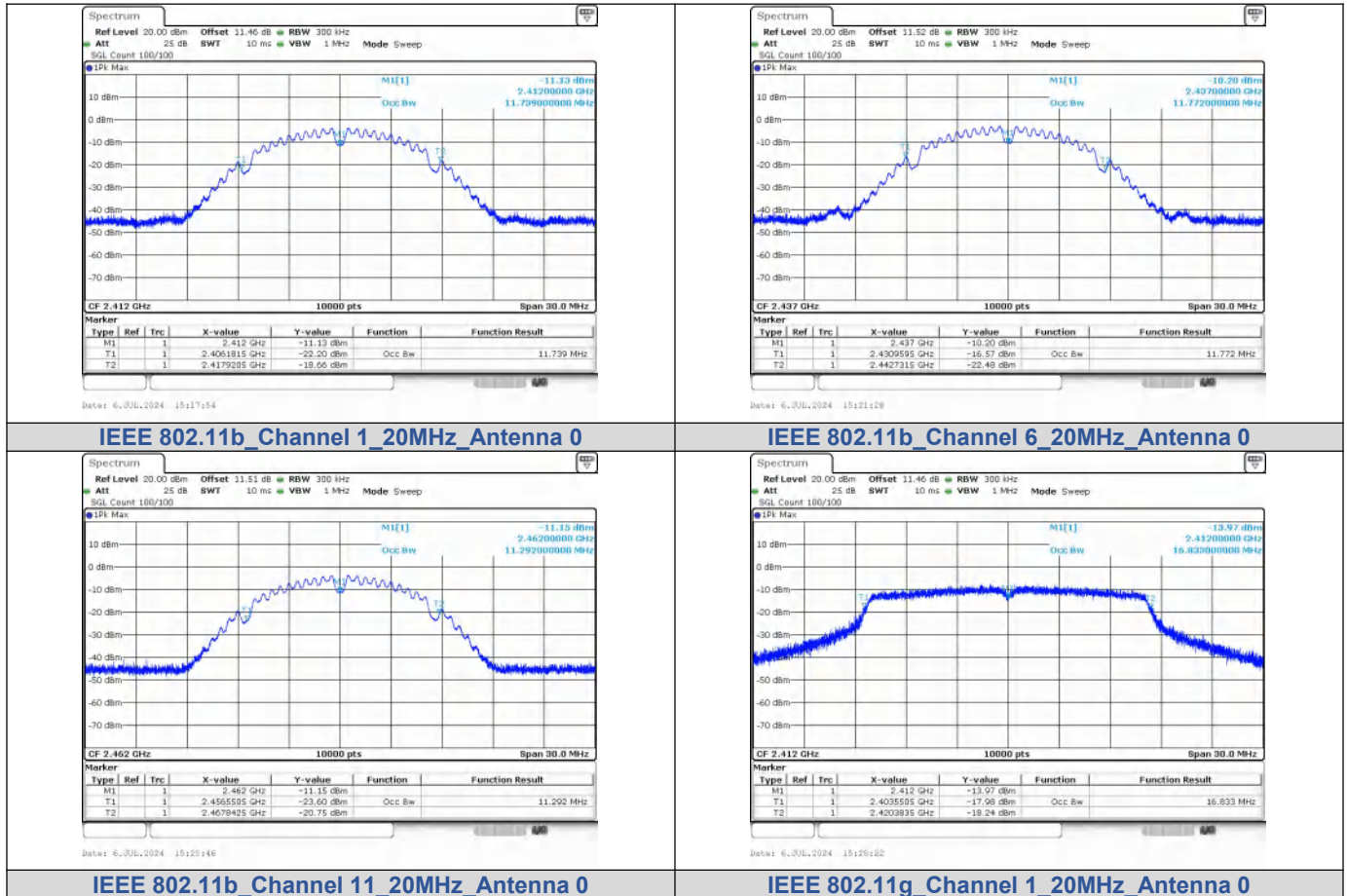
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	6.43	≤30	PASS
	6	7.21	≤30	PASS
	11	6.20	≤30	PASS
IEEE 802.11g	1	8.33	≤30	PASS
	6	6.80	≤30	PASS
	11	8.91	≤30	PASS
IEEE 802.11n_20	1	8.26	≤30	PASS
	6	8.05	≤30	PASS
	11	8.11	≤30	PASS
IEEE 802.11n_40	3	8.59	≤30	PASS
	6	8.69	≤30	PASS
	9	6.95	≤30	PASS

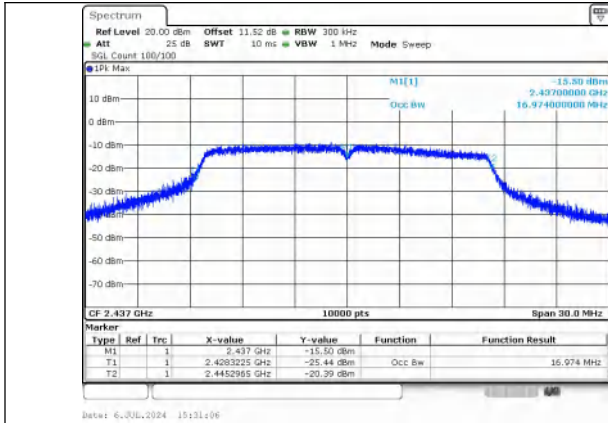
99% Bandwidth

Test Result

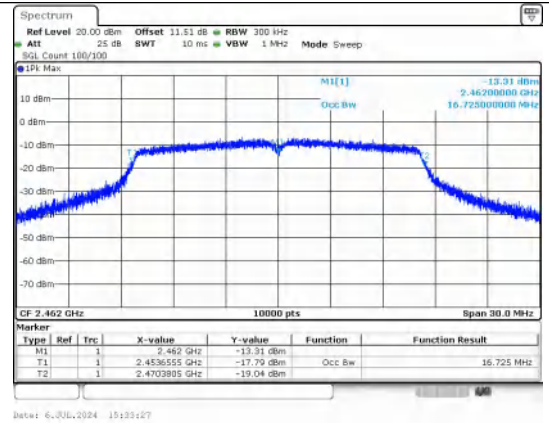
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	11.739
	6		2437	11.772
	11		2462	11.292
IEEE 802.11g	1		2412	16.833
	6		2437	16.974
	11		2462	16.725
IEEE 802.11n_20	1		2412	17.994
	6		2437	18.117
	11		2462	17.883
IEEE 802.11n_40	3		2422	36.108
	6		2437	36.564
	9		2452	36.510

Test Graphs

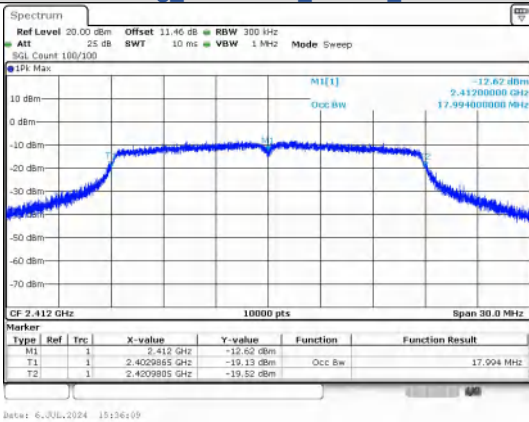




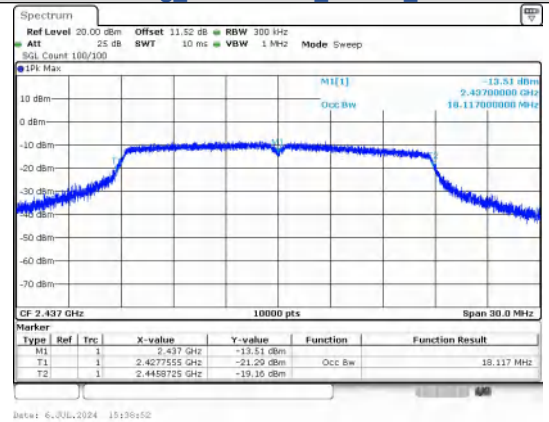
IEEE 802.11g Channel 6 20MHz Antenna 0



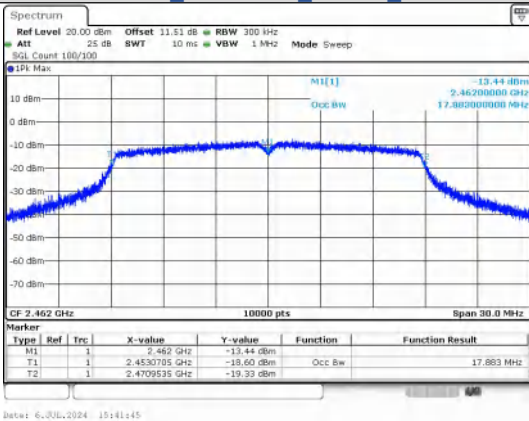
IEEE 802.11g Channel 11 20MHz Antenna 0



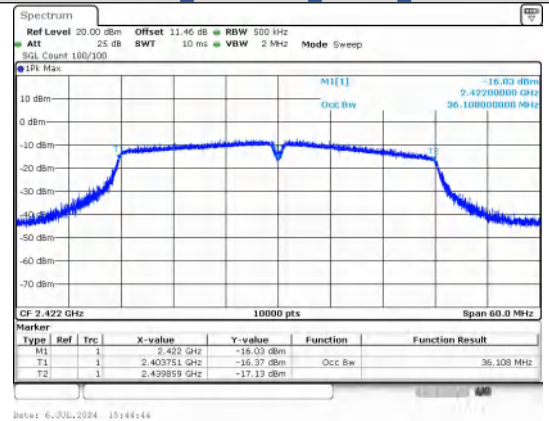
IEEE 802.11n Channel 1 20MHz Antenna 0



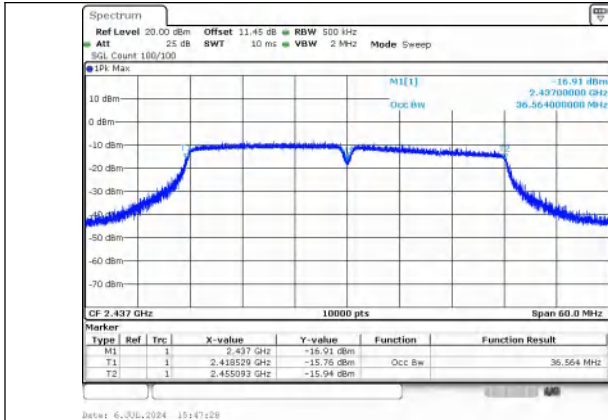
IEEE 802.11n Channel 6 20MHz Antenna 0



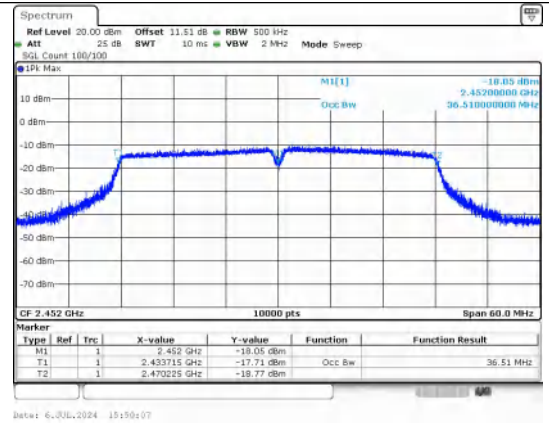
IEEE 802.11n Channel 11 20MHz Antenna 0



IEEE 802.11n Channel 3 40MHz Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



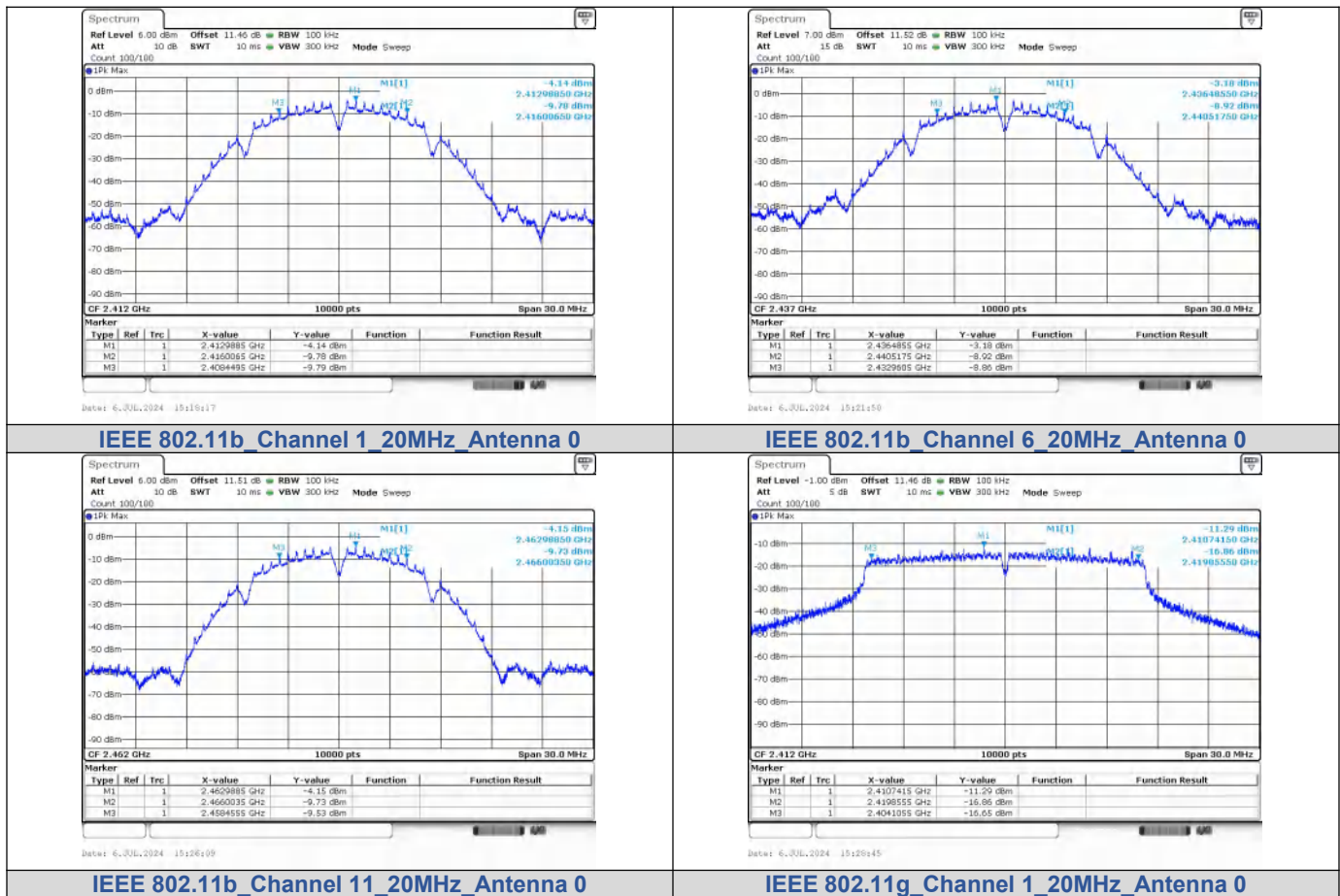
IEEE 802.11n_Channel 9_40MHz_Antenna 0

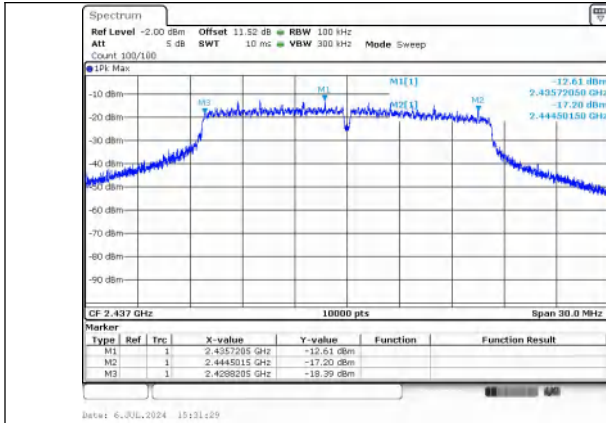
6dB Bandwidth

Test Result

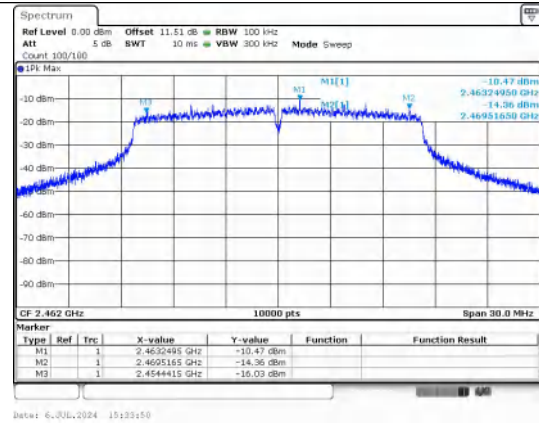
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.560	≥0.5	PASS
	6		2437	7.560		PASS
	11		2462	7.540		PASS
IEEE 802.11g	1		2412	15.75		PASS
	6		2437	15.68		PASS
	11		2462	15.08		PASS
IEEE 802.11n_20	1		2412	16.36		PASS
	6		2437	16.32		PASS
	11		2462	15.39		PASS
IEEE 802.11n_40	3		2422	28.76		PASS
	6		2437	35.66		PASS
	9		2452	35.31		PASS

Test Graphs

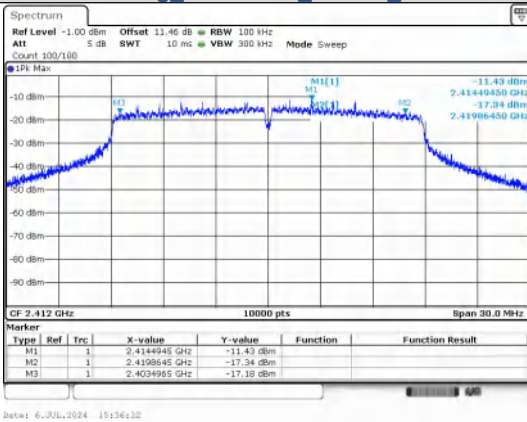




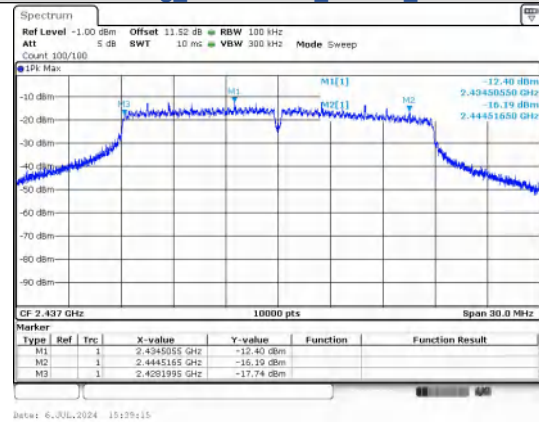
IEEE 802.11g_Channel 6_20MHz_Antenna 0



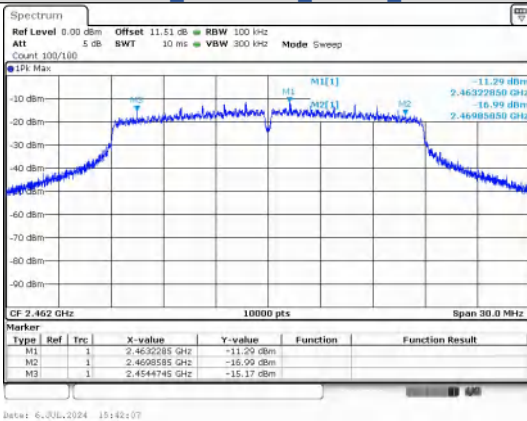
IEEE 802.11g_Channel 11_20MHz_Antenna 0



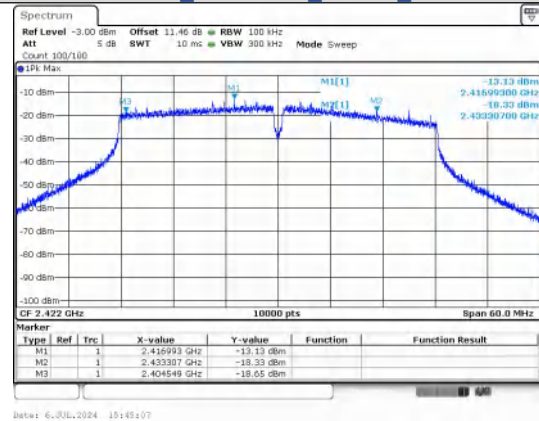
IEEE 802.11n_Channel 1_20MHz_Antenna 0



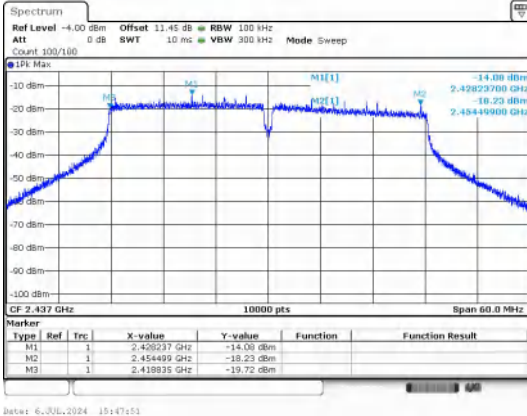
IEEE 802.11n_Channel 6_20MHz_Antenna 0



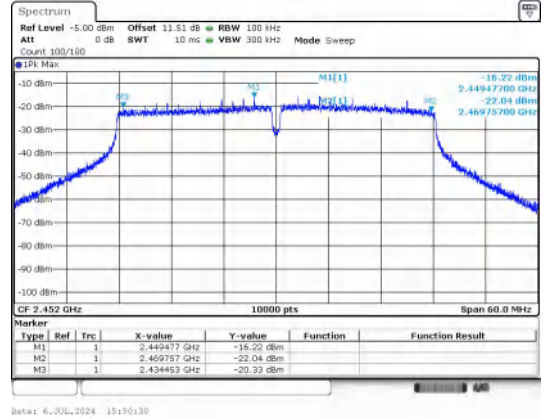
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



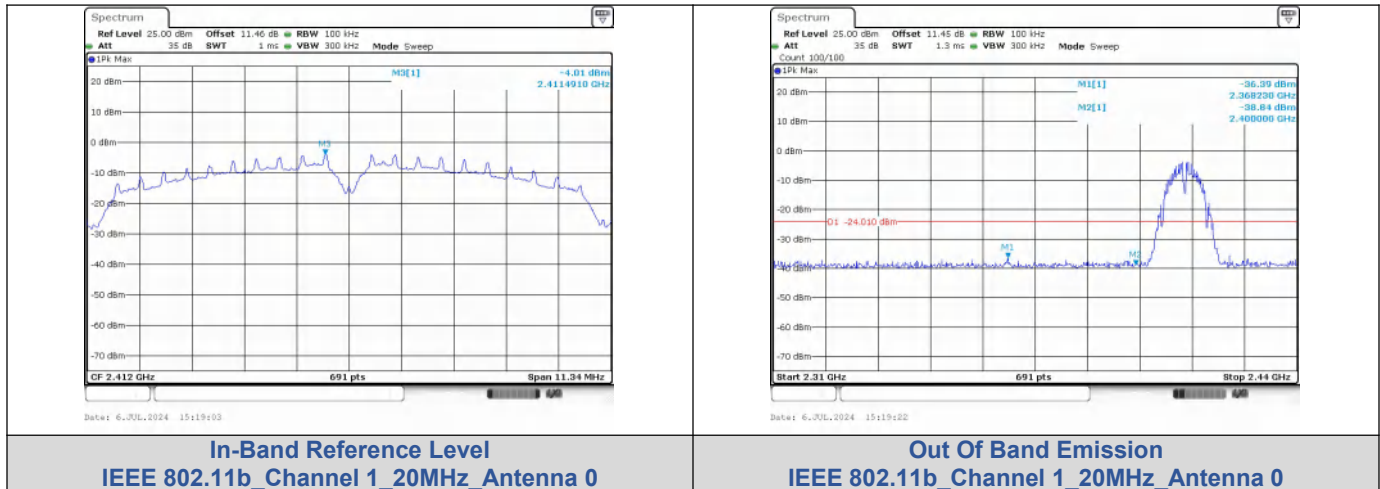
IEEE 802.11n_Channel 9_40MHz_Antenna 0

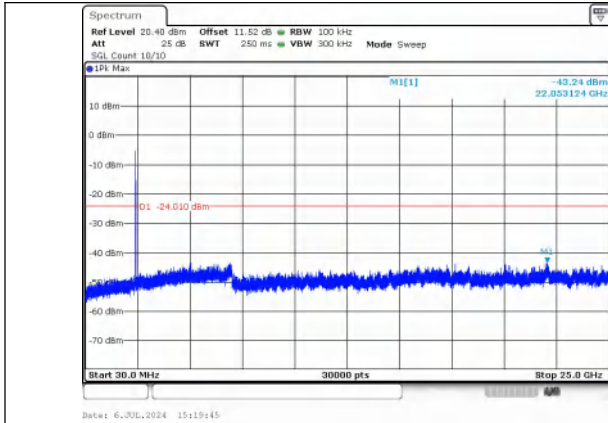
Conducted Out Of Band Emission

Test Result

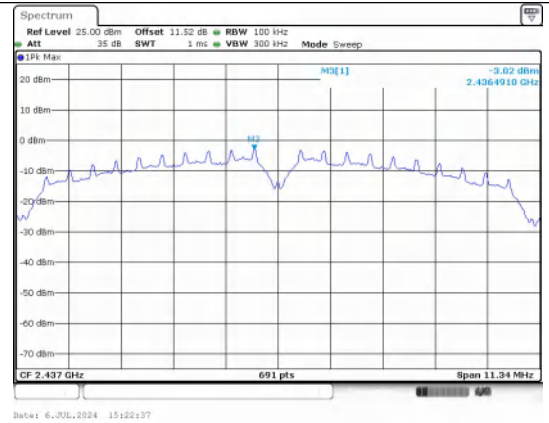
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result		
IEEE 802.11b	1	0	2368.23	-36.391	-24.01	-12.381	PASS		
			2400.00	-38.841	-24.01	-14.831	PASS		
			22053.1	-43.244	-24.01	-19.234	PASS		
	6		6189.68	-42.784	-23.02	-19.764	PASS		
			11	2483.50	-38.542	-24.05	-14.492	PASS	
				6905.49	-42.550	-24.05	-18.500	PASS	
IEEE 802.11g	1			2400.00	-36.623	-30.47	-6.153	PASS	
			6974.57	-42.802	-30.47	-12.332	PASS		
			6982.06	-43.310	-32.62	-10.690	PASS		
	6		2483.50	-38.971	-29.93	-9.041	PASS		
			11	6918.81	-42.729	-29.93	-12.799	PASS	
				2400.00	-35.027	-30.78	-4.247	PASS	
IEEE 802.11n_20	1			6929.63	-41.770	-30.78	-10.990	PASS	
			6	6901.33	-43.488	-31.47	-12.018	PASS	
				11	2483.50	-38.494	-30.32	-8.174	PASS
	6				6916.31	-43.271	-30.32	-12.951	PASS
			IEEE 802.11n_40		3	2352.80	-36.762	-34.02	-2.742
				2400.00		-37.366	-34.02	-3.346	PASS
6958.80	-43.385			-34.02		-9.365	PASS		
6	17355.4			-42.710	-32.83	-9.880	PASS		
	9			2483.50	-38.815	-34.88	-3.935	PASS	
				6914.65	-43.203	-34.88	-8.323	PASS	

Test Graphs

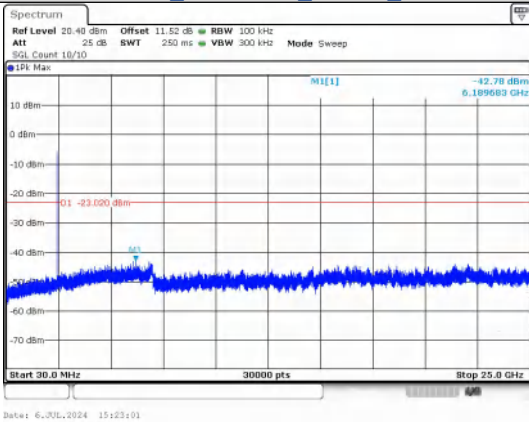




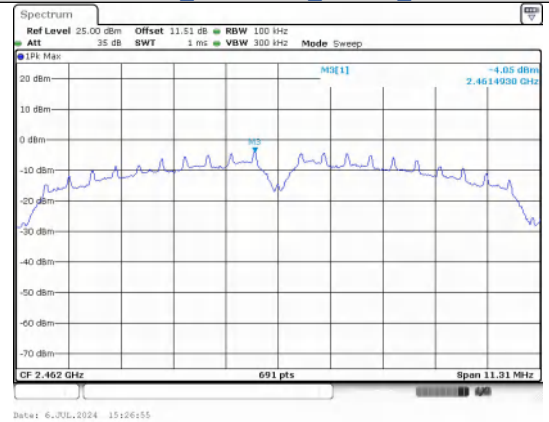
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



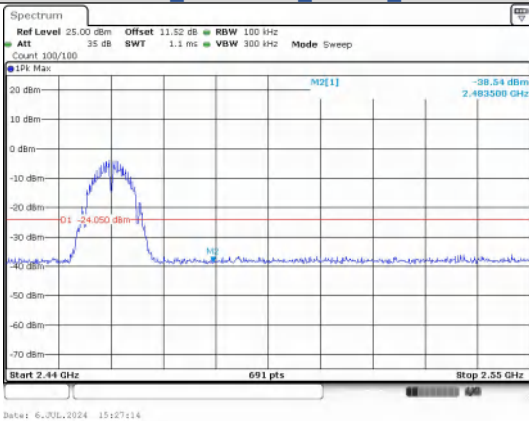
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



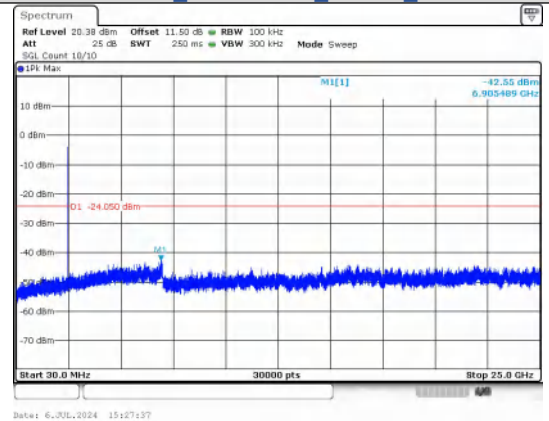
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



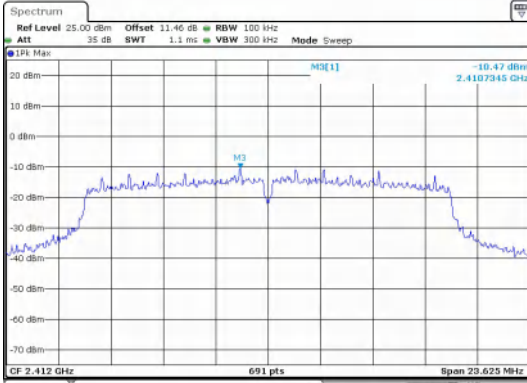
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



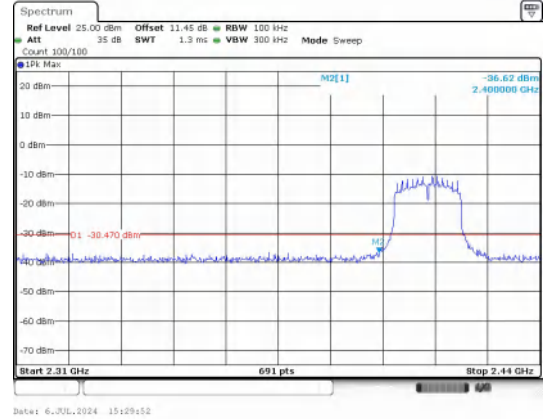
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



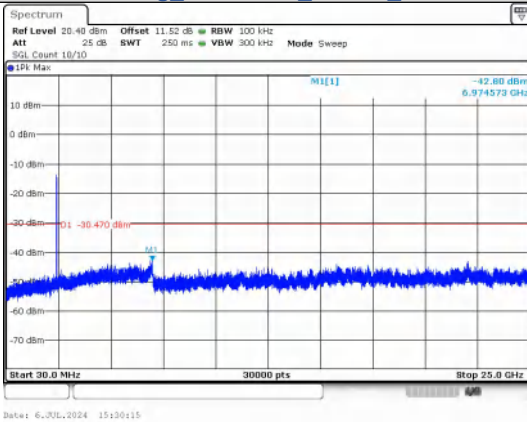
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



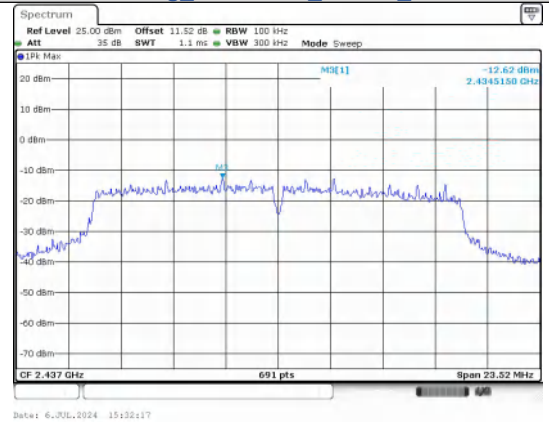
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



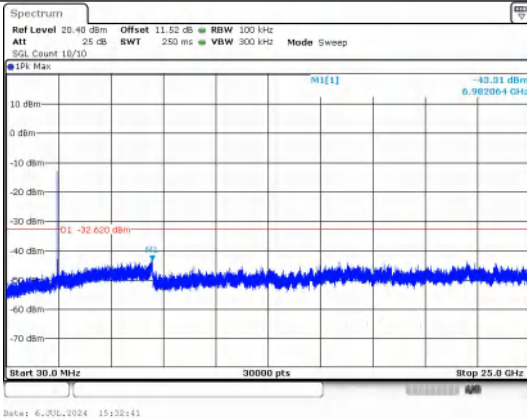
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



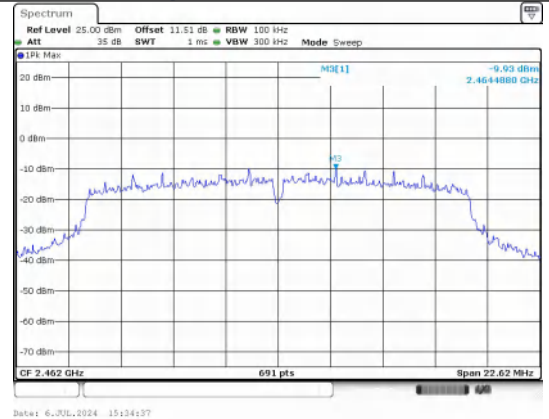
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



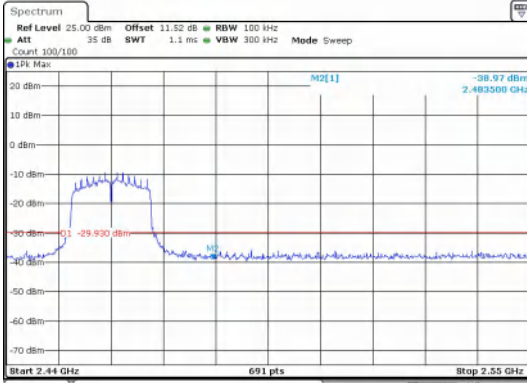
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



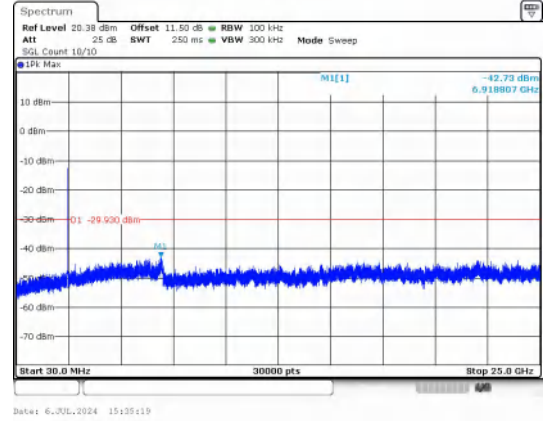
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



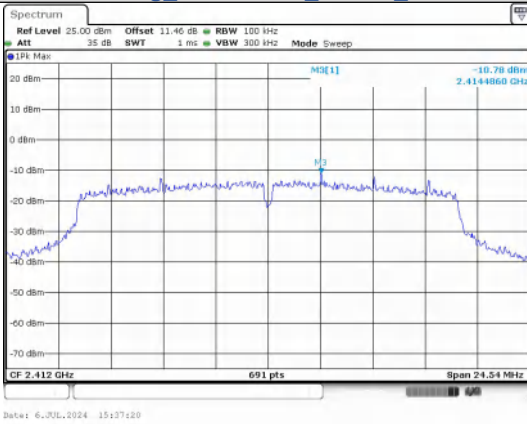
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



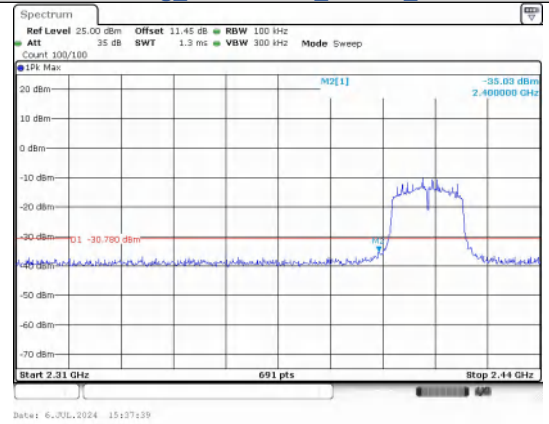
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



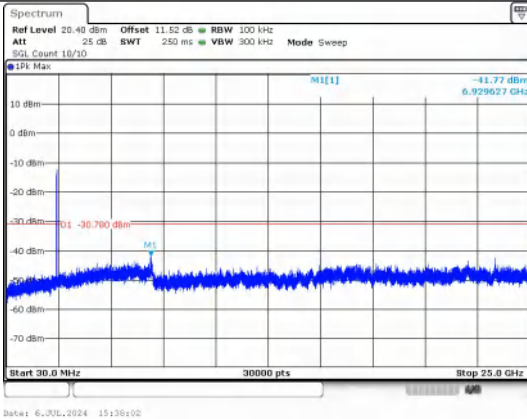
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



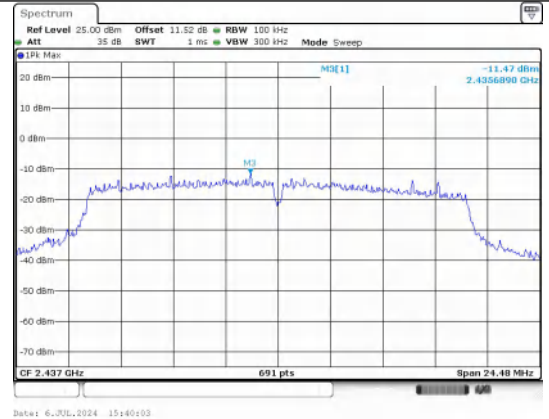
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



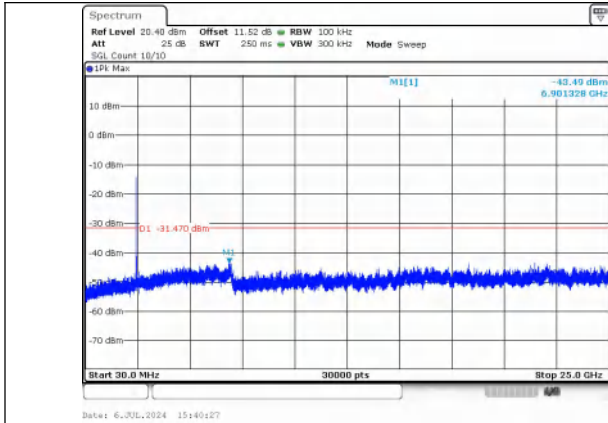
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



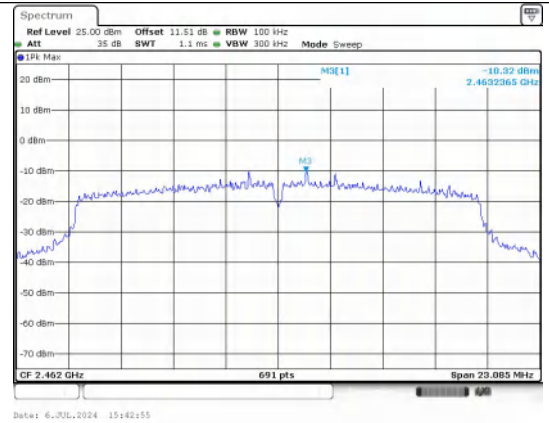
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



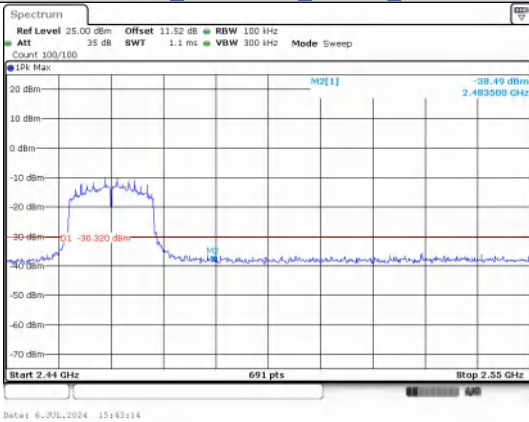
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



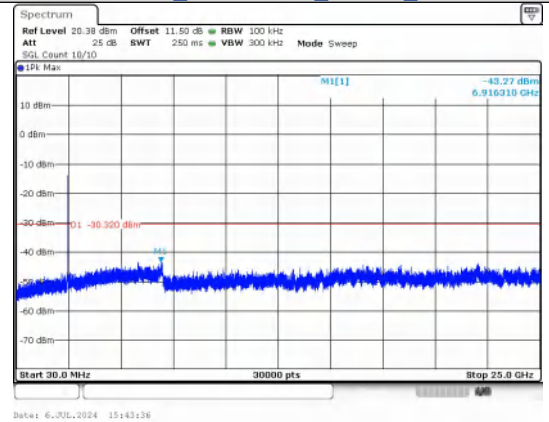
30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 6_20MHz_Antenna 0



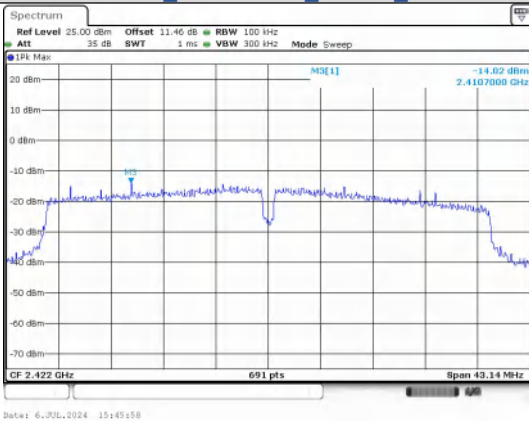
In-Band Reference Level
IEEE 802.11n Channel 11_20MHz_Antenna 0



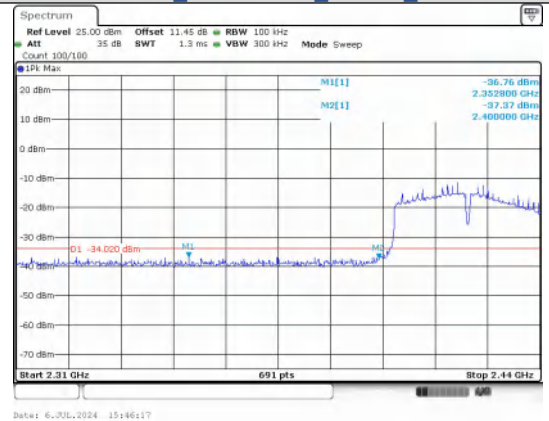
Out Of Band Emission
IEEE 802.11n Channel 11_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 3_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n Channel 3_40MHz_Antenna 0

