Appendix A

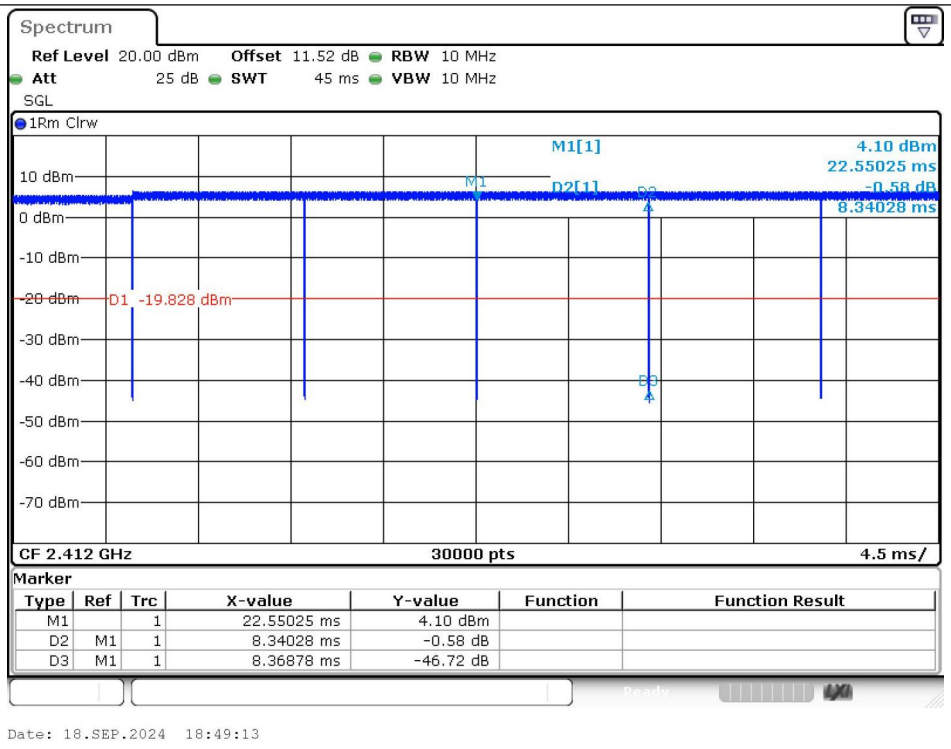
Report No.:	CISRR240911088
FCC ID:	2BK56-C2
Product Name:	security camera indoor
Model No.:	C2
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

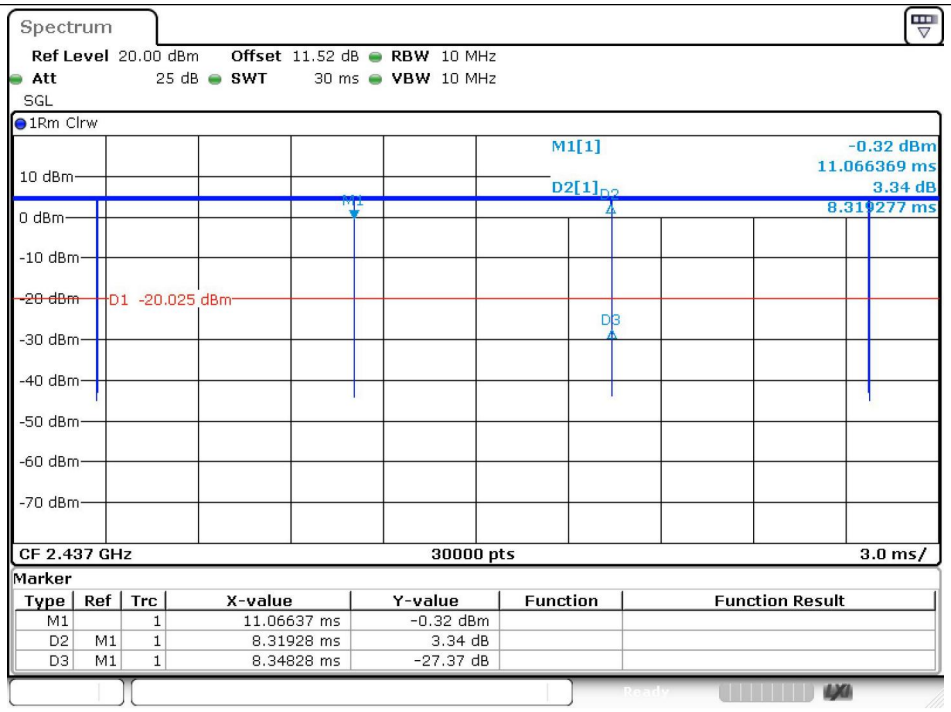
Test Result

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	8.340	8.369	99.66	0.9966	0.0148	0.12
		6		8.319	8.348	99.65	0.9965	0.0152	0.12
		11		8.342	8.370	99.66	0.9966	0.0148	0.12
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.72
		6		1.396	1.429	97.69	0.9769	0.1015	0.72
		11		1.396	1.429	97.69	0.9769	0.1015	0.72
IEEE 802.11n_20	MCS 0	1		1.304	1.337	97.53	0.9753	0.1086	0.77
		6		1.293	1.327	97.44	0.9744	0.1126	0.77
		11		1.304	1.337	97.53	0.9753	0.1086	0.77
IEEE 802.11n_40		3		0.650	0.684	95.00	0.9500	0.2228	1.54
		6		0.650	0.684	94.94	0.9494	0.2255	1.54
		9		0.650	0.684	95.00	0.9500	0.2228	1.54

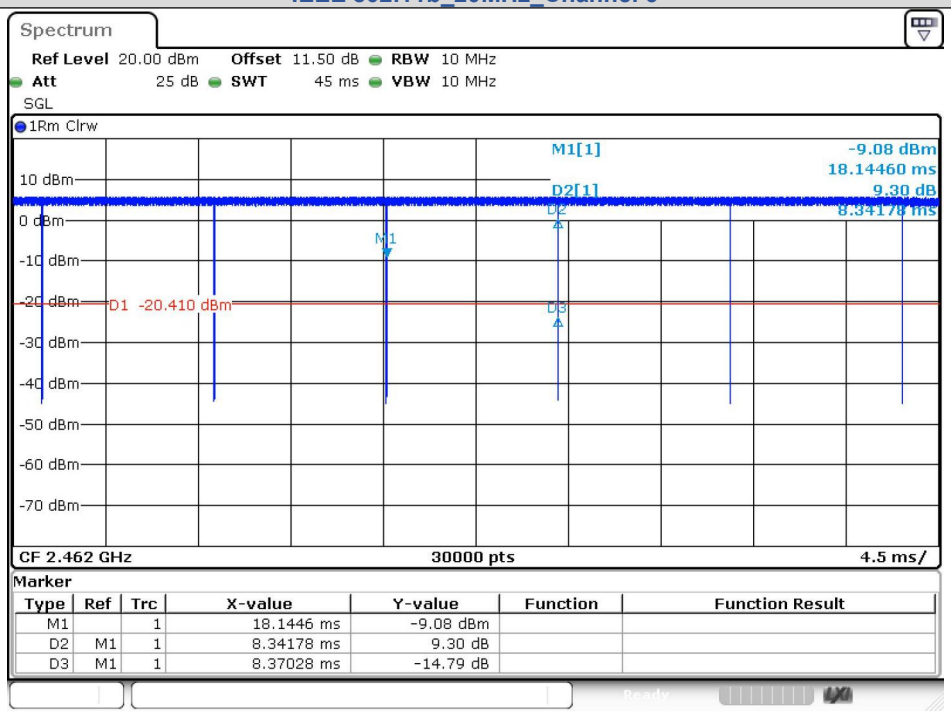
Test Graphs



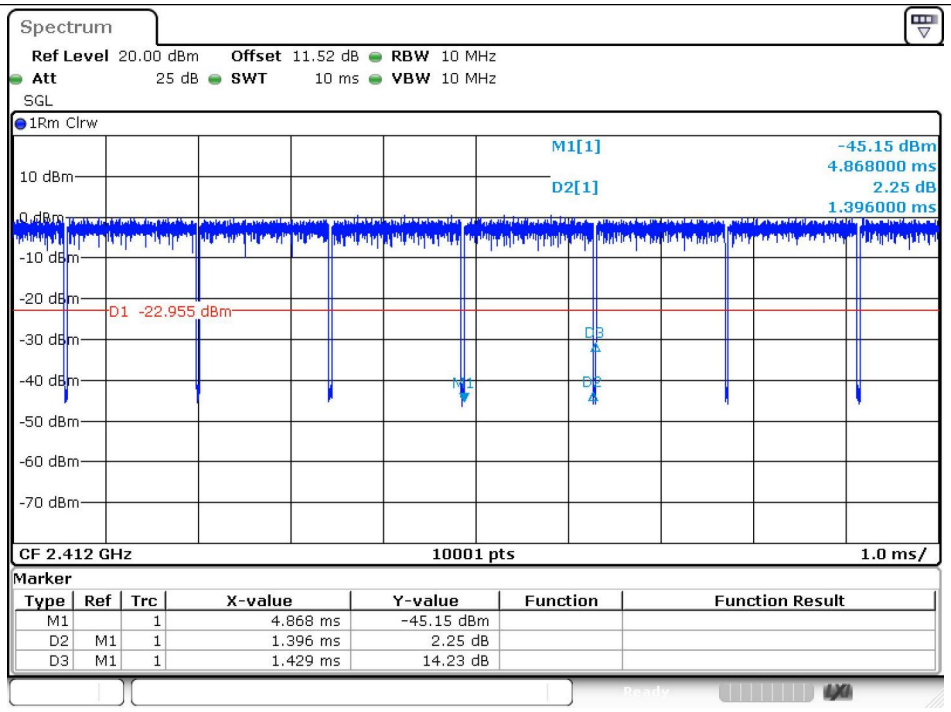
IEEE 802.11b_20MHz_Channel 1



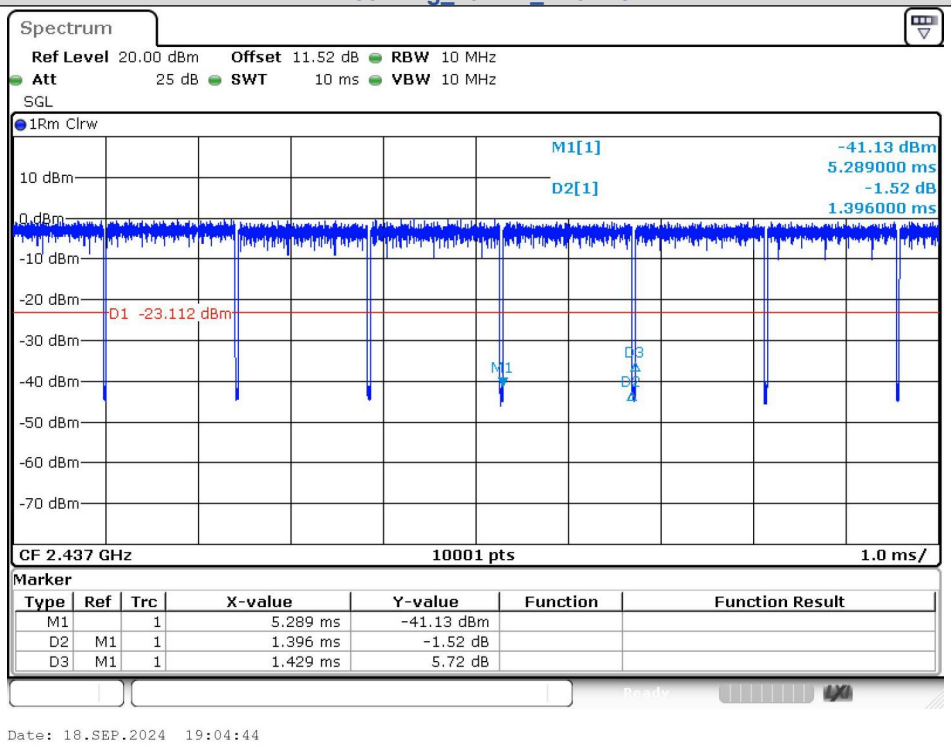
IEEE 802.11b_20MHz_Channel 6



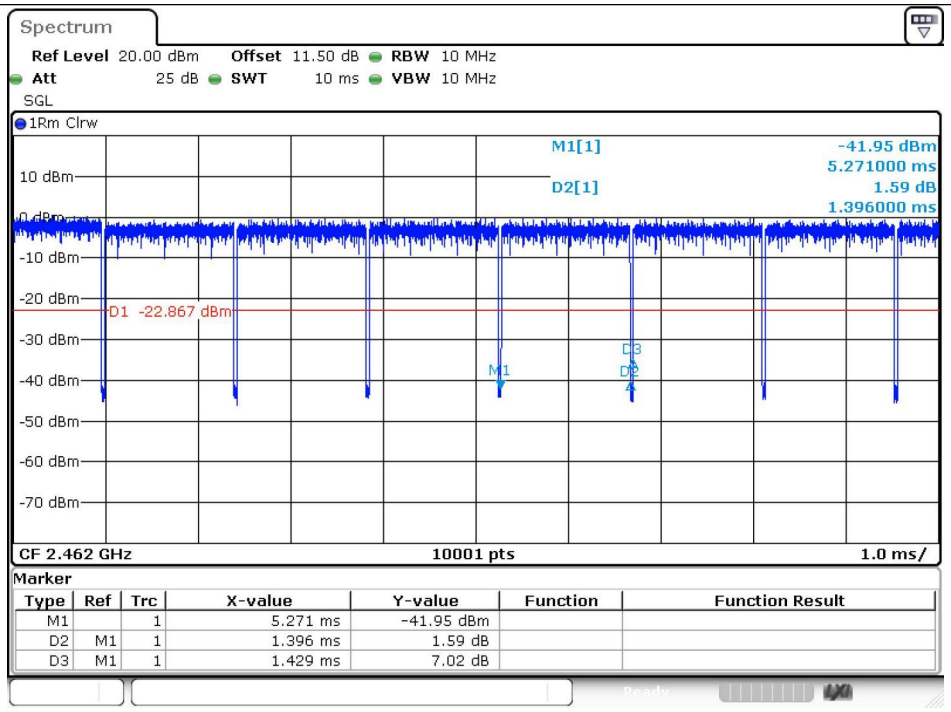
IEEE 802.11b_20MHz_Channel 11



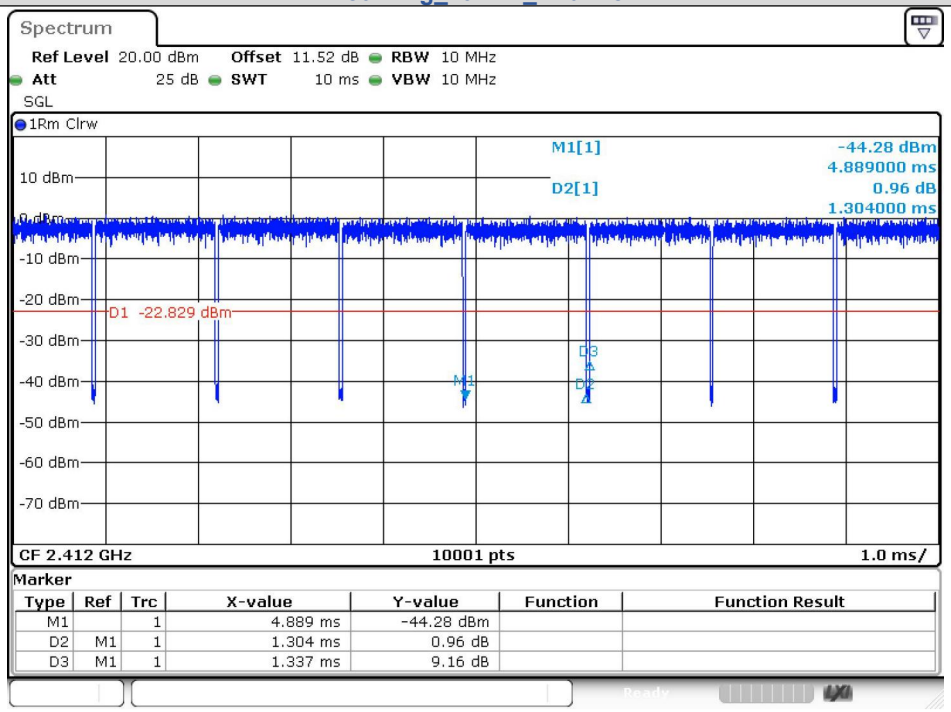
IEEE 802.11g_20MHz_Channel 1



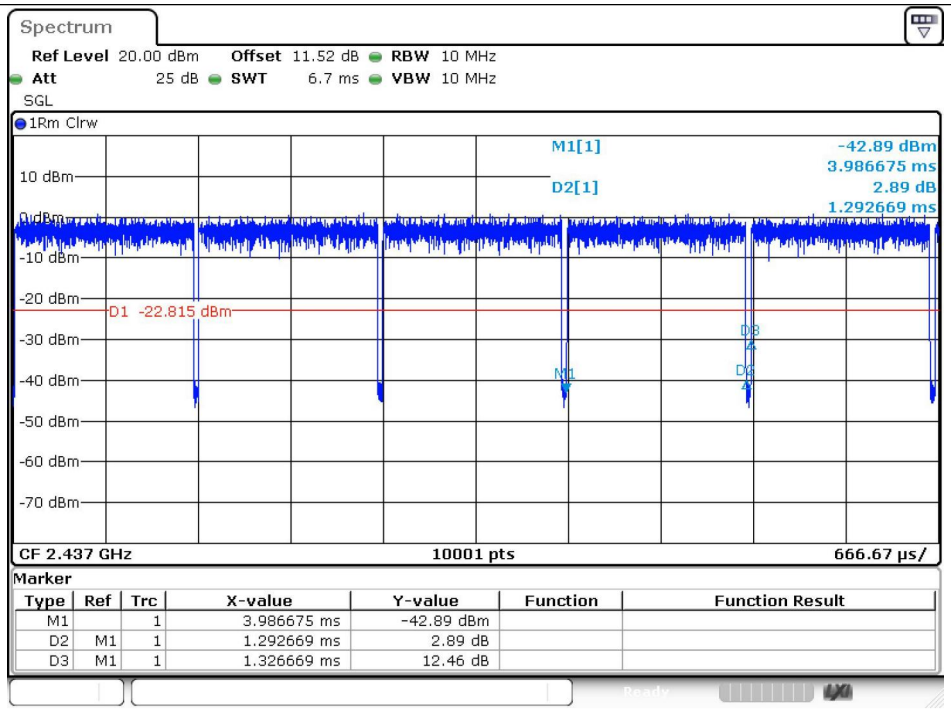
IEEE 802.11g_20MHz_Channel 6



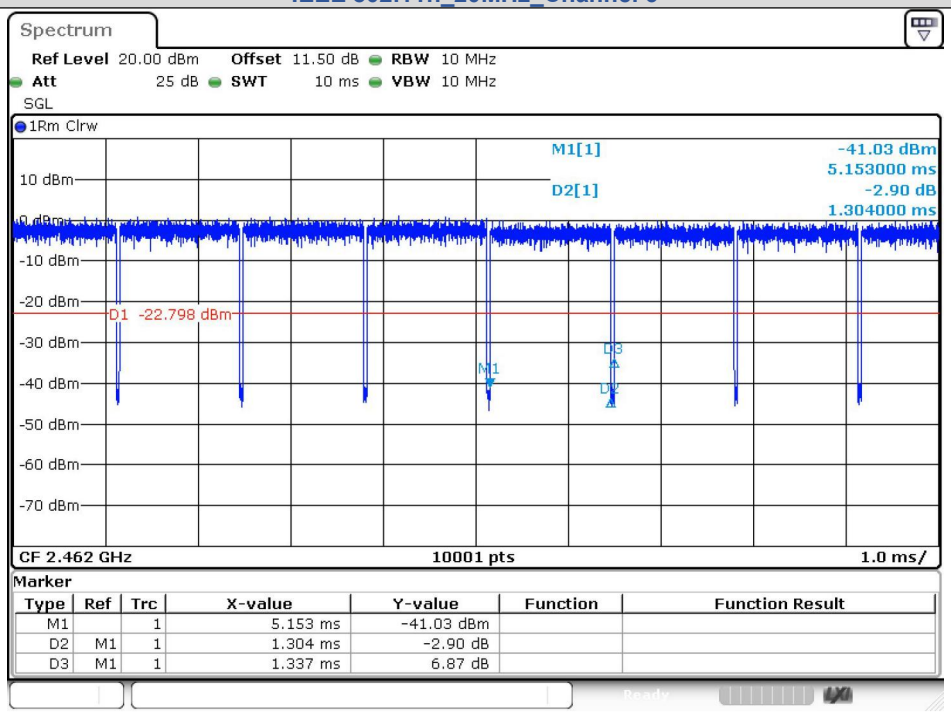
IEEE 802.11g_20MHz_Channel 11



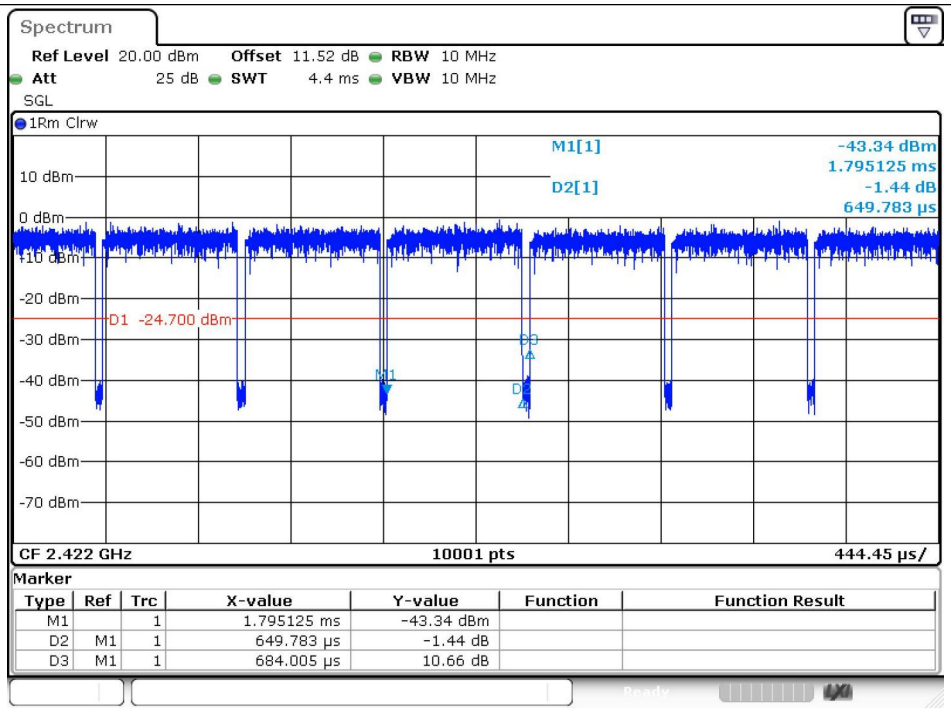
IEEE 802.11n_20MHz_Channel 1



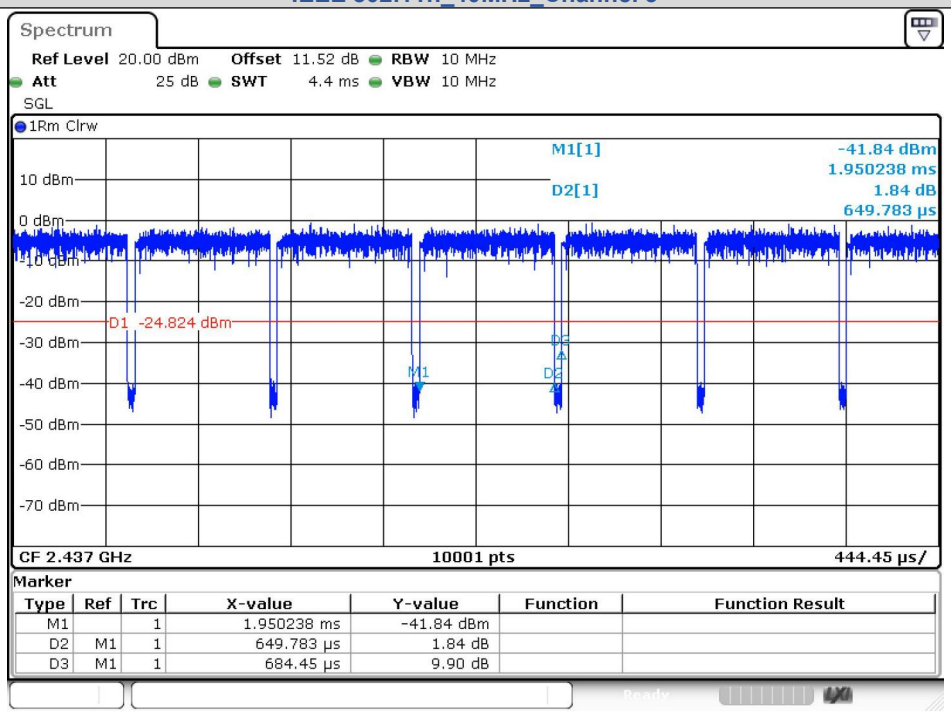
IEEE 802.11n_20MHz_Channel 6



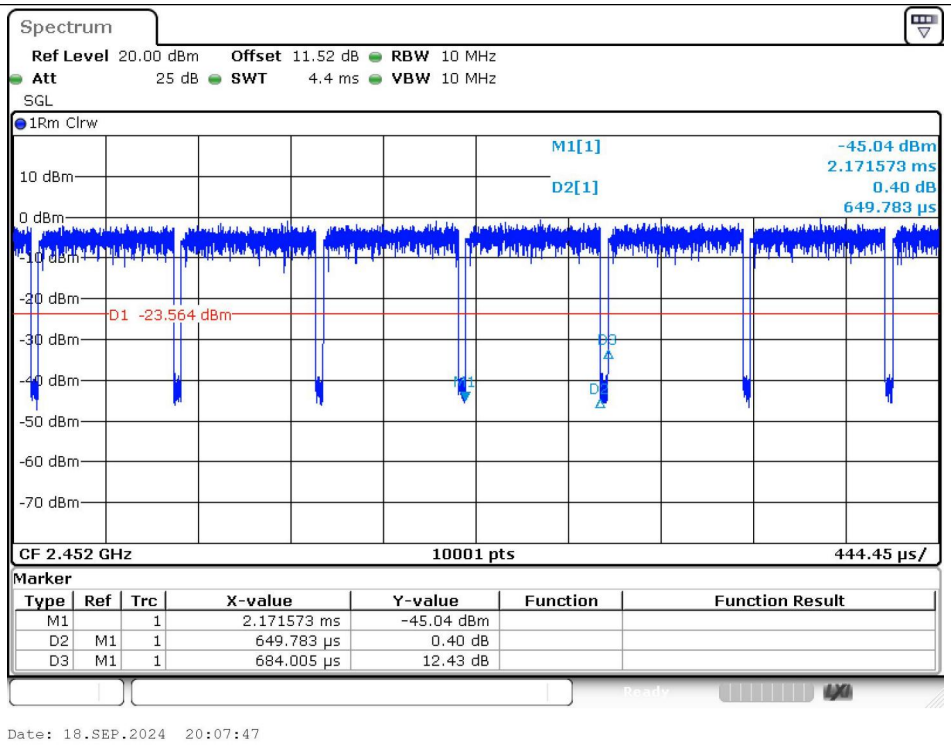
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



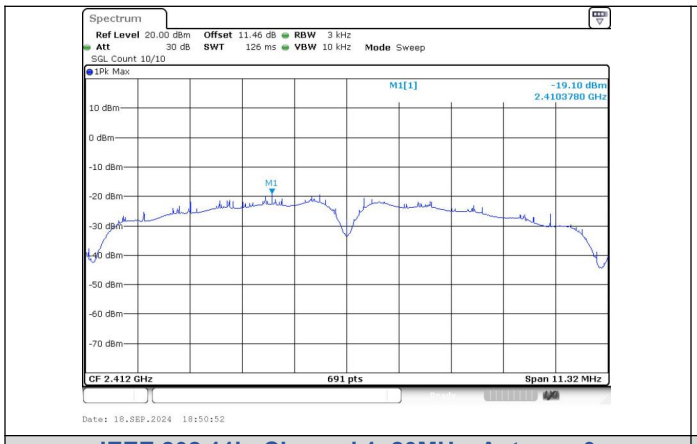
IEEE 802.11n_40MHz_Channel 9

Power Spectral Density

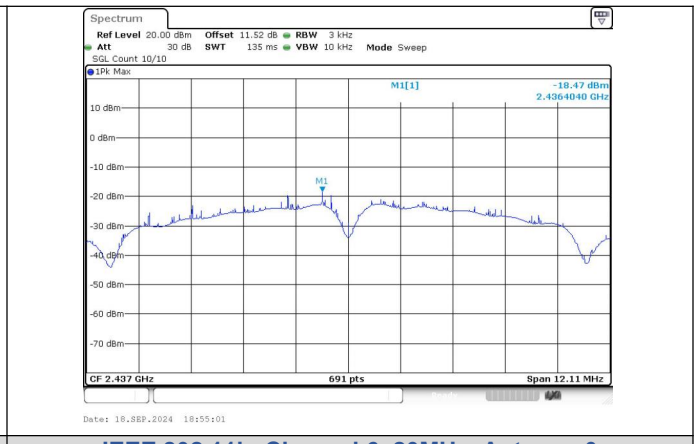
Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-19.096	≤8	PASS
	6	-18.470		PASS
	11	-18.567		PASS
IEEE 802.11g	1	-26.946		PASS
	6	-27.137		PASS
	11	-26.037		PASS
IEEE 802.11n_20	1	-27.109		PASS
	6	-26.091		PASS
	11	-27.006		PASS
IEEE 802.11n_40	3	-28.447		PASS
	6	-29.657		PASS
	9	-28.499		PASS

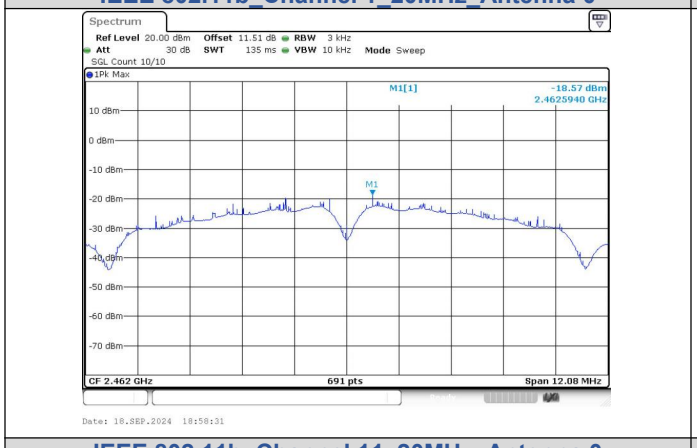
Test Graphs



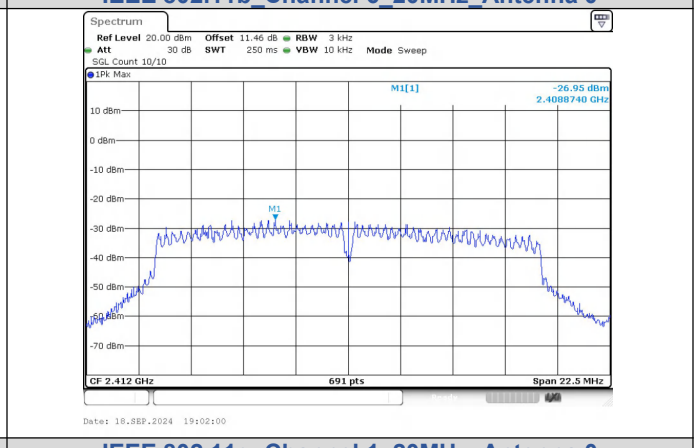
IEEE 802.11b_Channel 1_20MHz_Antenna 0



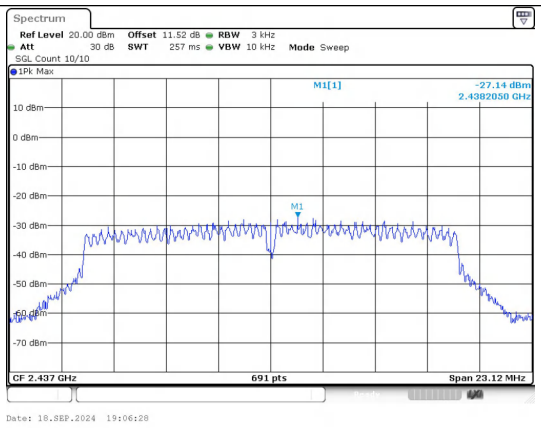
IEEE 802.11b_Channel 6_20MHz_Antenna 0



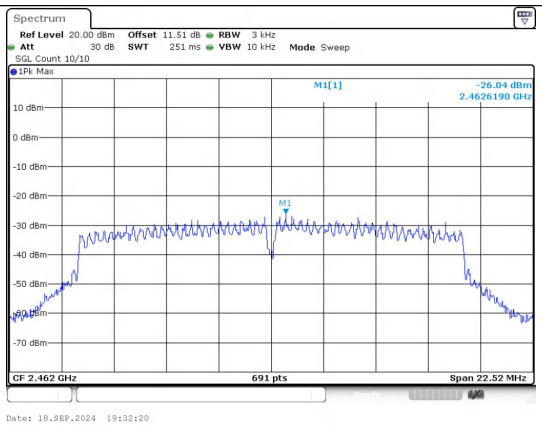
IEEE 802.11b_Channel 11_20MHz_Antenna 0



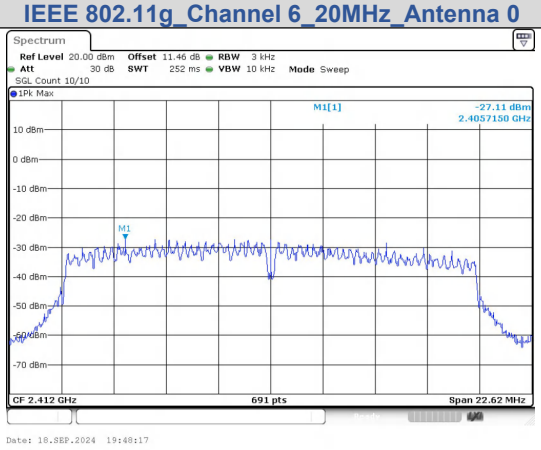
IEEE 802.11g_Channel 1_20MHz_Antenna 0



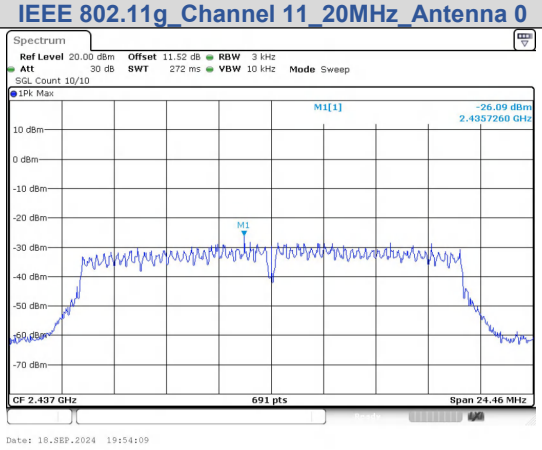
IEEE 802.11g_Channel 6_20MHz_Antenna 0



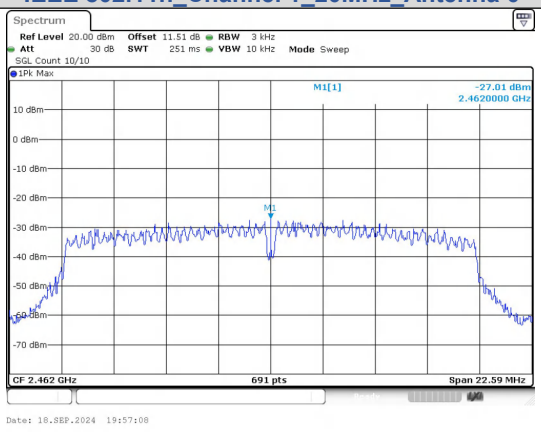
IEEE 802.11g_Channel 11_20MHz_Antenna 0



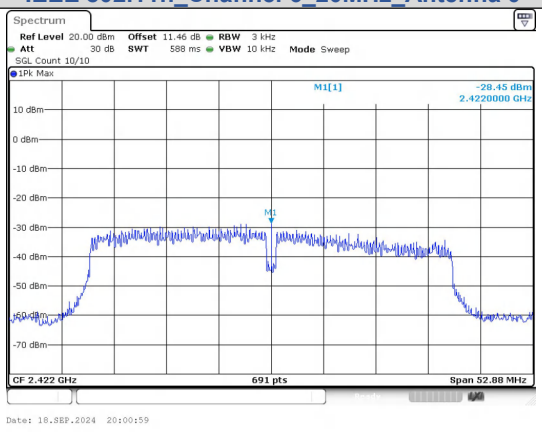
IEEE 802.11n_Channel 1_20MHz_Antenna 0



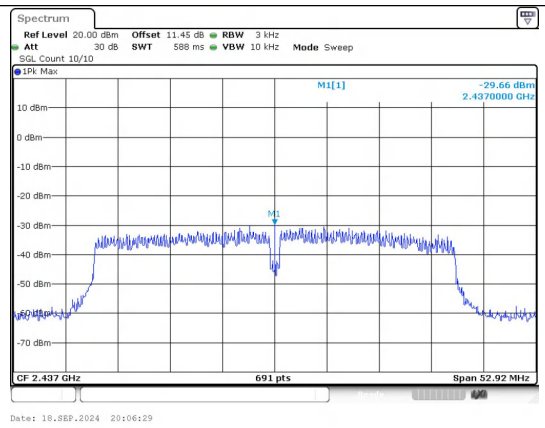
IEEE 802.11n_Channel 6_20MHz_Antenna 0



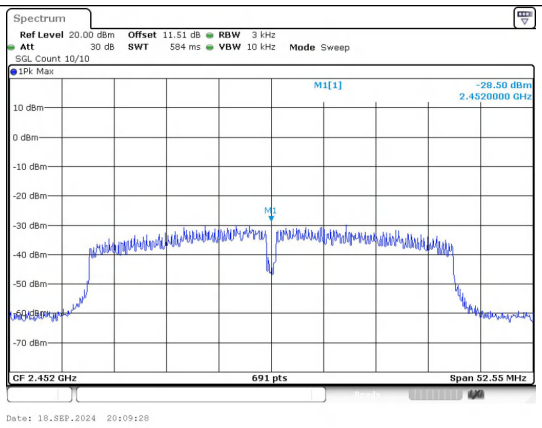
IEEE 802.11n_Channel 11_20MHz_Antenna 0



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

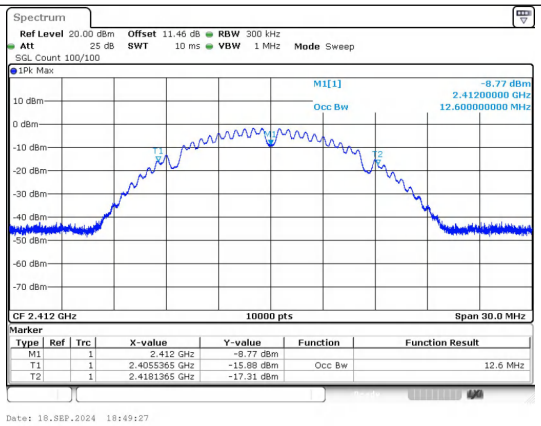
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.53	≤30	PASS
	6	8.02	≤30	PASS
	11	8.01	≤30	PASS
IEEE 802.11g	1	7.21	≤30	PASS
	6	6.80	≤30	PASS
	11	7.34	≤30	PASS
IEEE 802.11n_20	1	7.07	≤30	PASS
	6	6.96	≤30	PASS
	11	7.30	≤30	PASS
IEEE 802.11n_40	3	7.20	≤30	PASS
	6	6.88	≤30	PASS
	9	6.98	≤30	PASS

99% Bandwidth

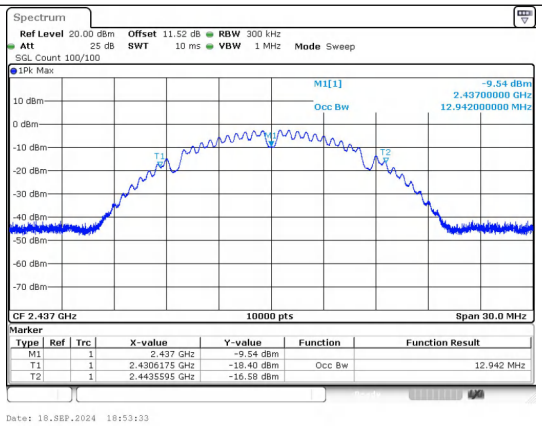
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.600
	6		2437	12.942
	11		2462	12.603
IEEE 802.11g	1		2412	16.509
	6		2437	16.773
	11		2462	16.512
IEEE 802.11n_20	1		2412	17.556
	6		2437	17.739
	11		2462	17.568
IEEE 802.11n_40	3		2422	36.072
	6		2437	36.222
	9		2452	35.874

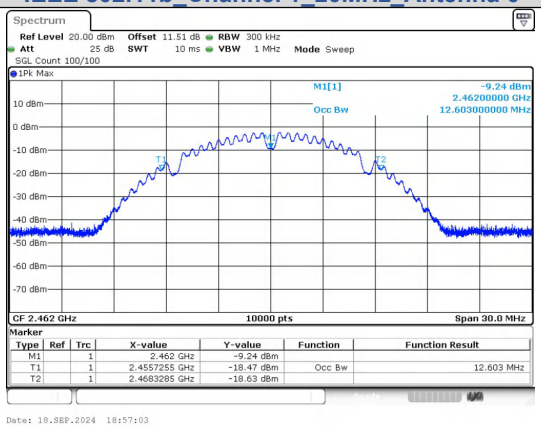
Test Graphs



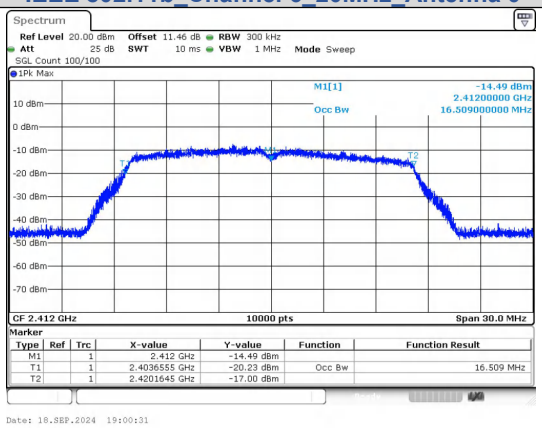
IEEE 802.11b_Channel 1_20MHz_Antenna 0



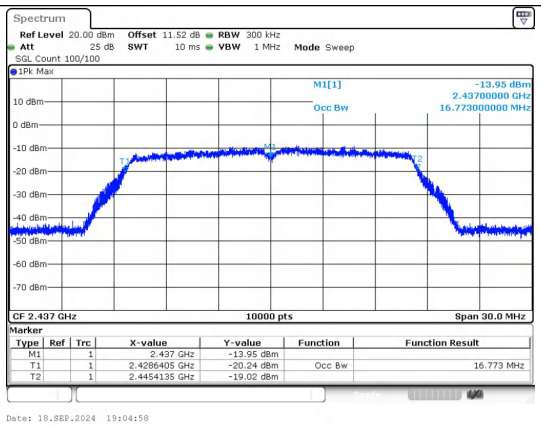
IEEE 802.11b_Channel 6_20MHz_Antenna 0



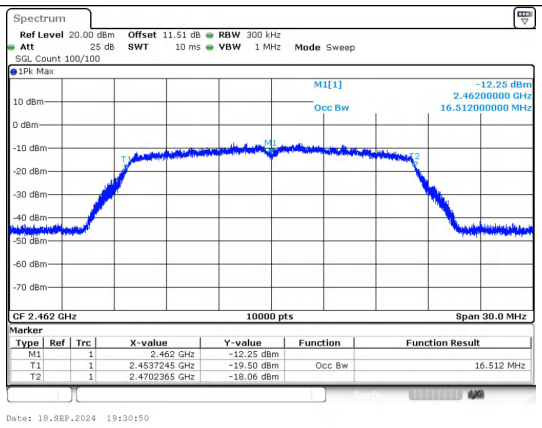
IEEE 802.11b_Channel 11_20MHz_Antenna 0



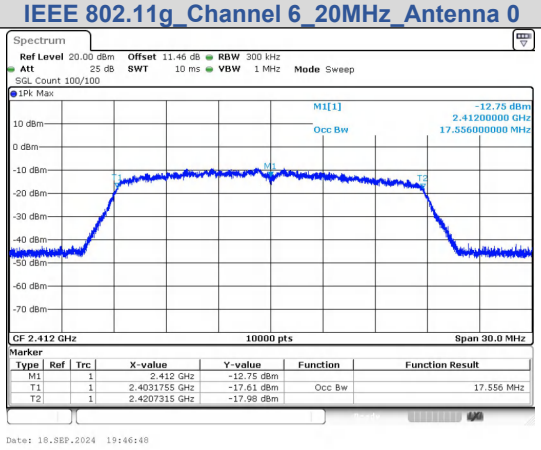
IEEE 802.11g_Channel 1_20MHz_Antenna 0



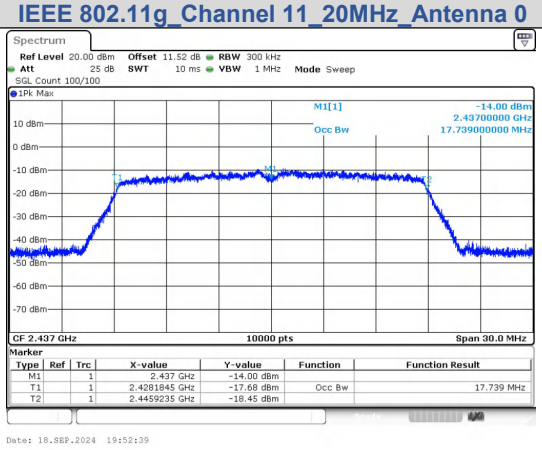
IEEE 802.11g_Channel 6_20MHz_Antenna 0



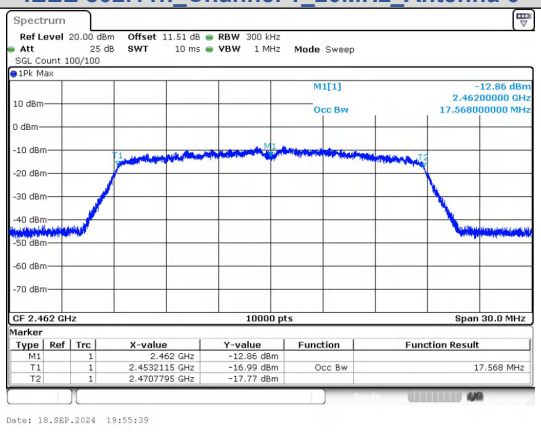
IEEE 802.11g_Channel 11_20MHz_Antenna 0



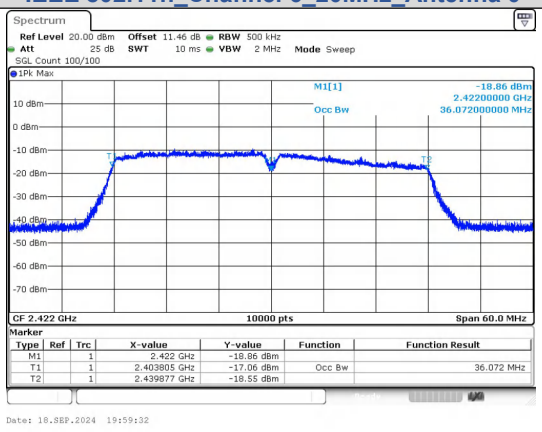
IEEE 802.11n_Channel 1_20MHz_Antenna 0



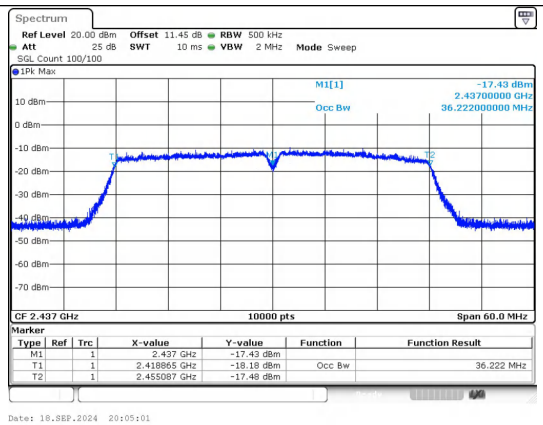
IEEE 802.11n_Channel 6_20MHz_Antenna 0



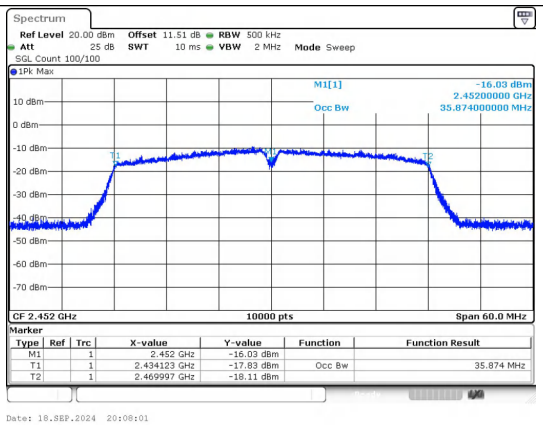
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



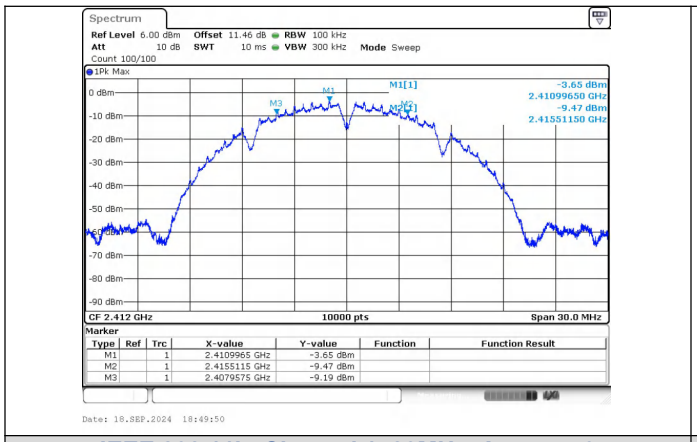
IEEE 802.11n_Channel 9_40MHz_Antenna 0

6dB Bandwidth

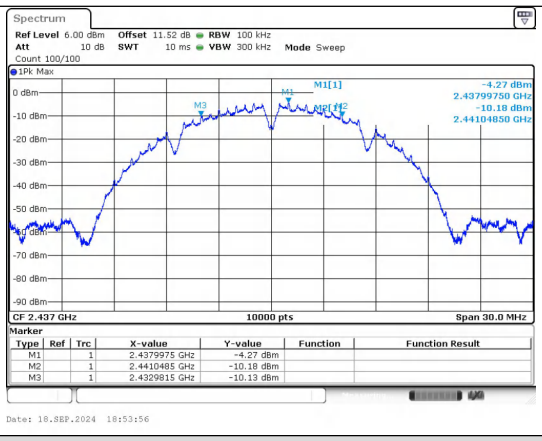
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.550	≥0.5	PASS
	6		2437	8.070		PASS
	11		2462	8.050		PASS
IEEE 802.11g	1		2412	15.00		PASS
	6		2437	15.41		PASS
	11		2462	15.01		PASS
IEEE 802.11n_20	1		2412	15.08		PASS
	6		2437	16.31		PASS
	11		2462	15.06		PASS
IEEE 802.11n_40	3		2422	35.25		PASS
	6		2437	35.28		PASS
	9		2452	35.03		PASS

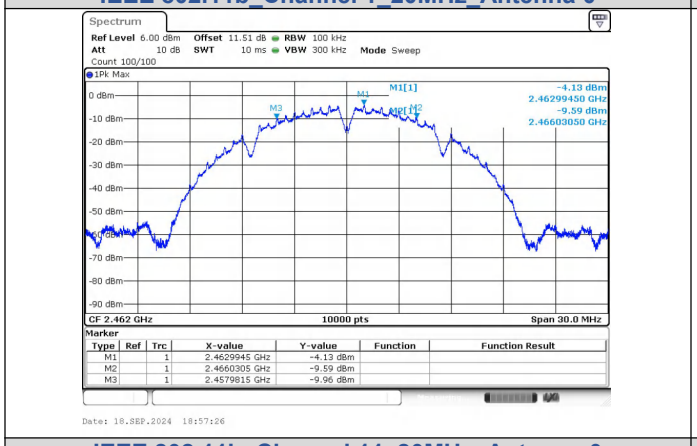
Test Graphs



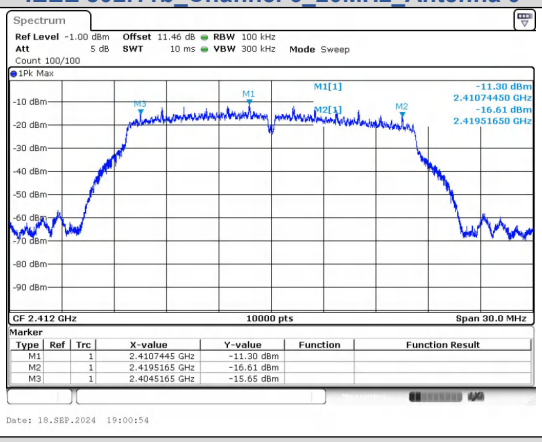
IEEE 802.11b_Channel 1_20MHz_Antenna 0



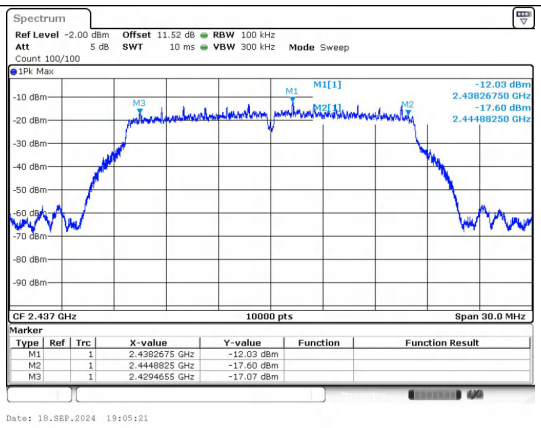
IEEE 802.11b_Channel 6_20MHz_Antenna 0



IEEE 802.11b_Channel 11_20MHz_Antenna 0



IEEE 802.11g_Channel 1_20MHz_Antenna 0



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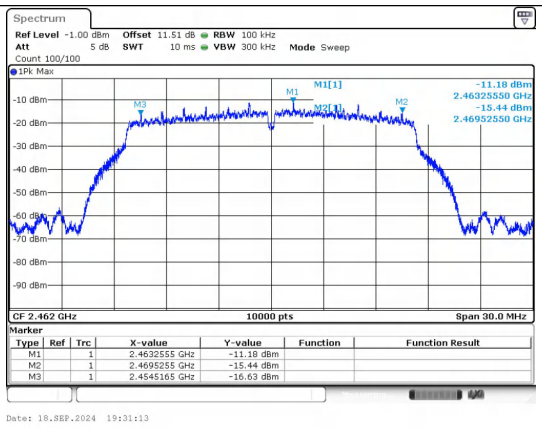
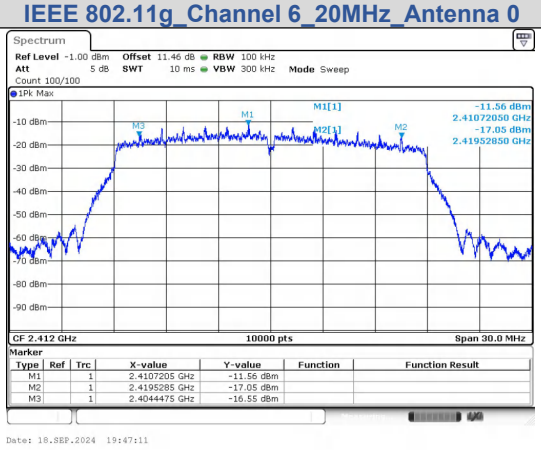
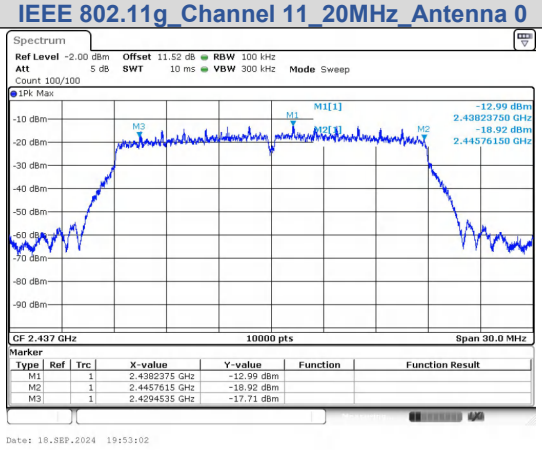


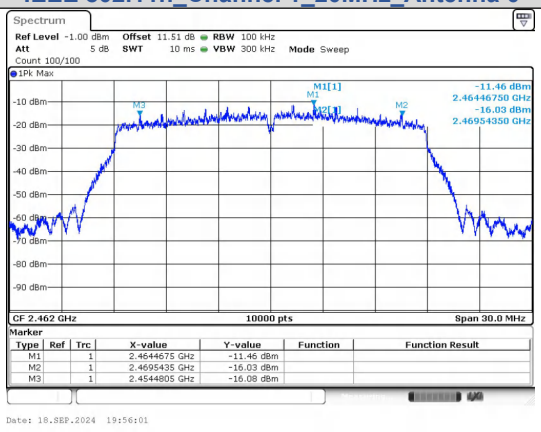
IEEE 802.11g_Channel 11_20MHz_Antenna 0



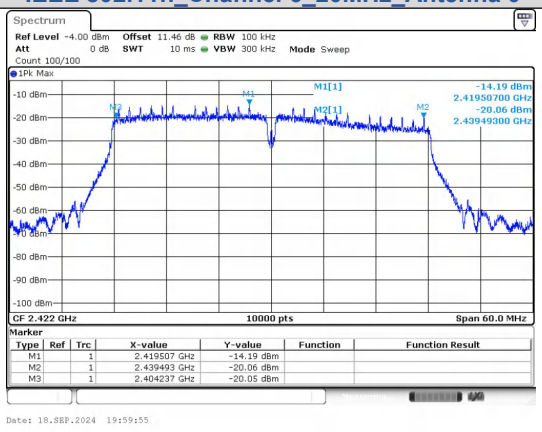
IEEE 802.11n_Channel 1_20MHz_Antenna 0



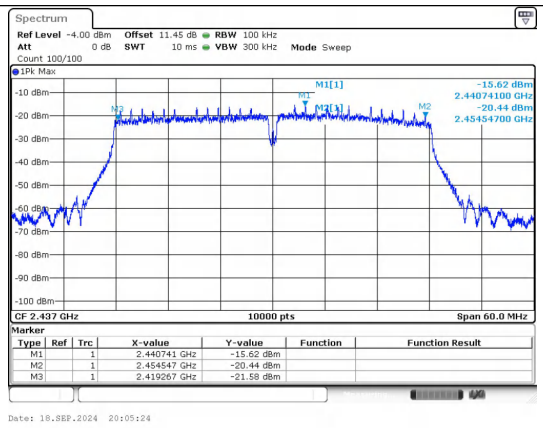
IEEE 802.11n_Channel 6_20MHz_Antenna 0



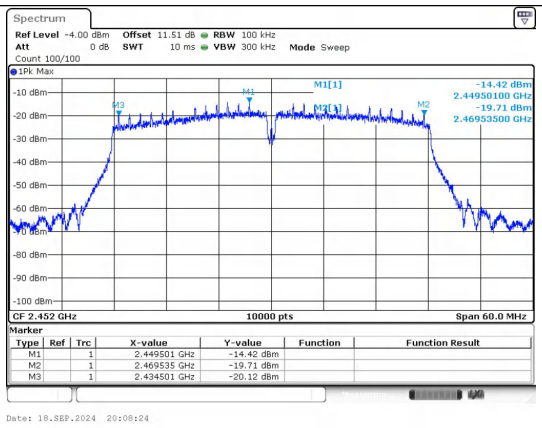
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



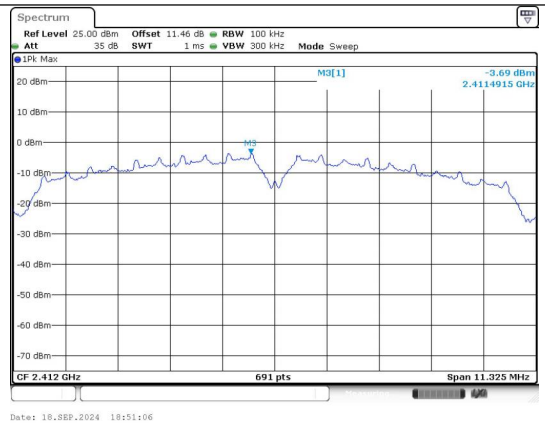
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Conducted Out Of Band Emission

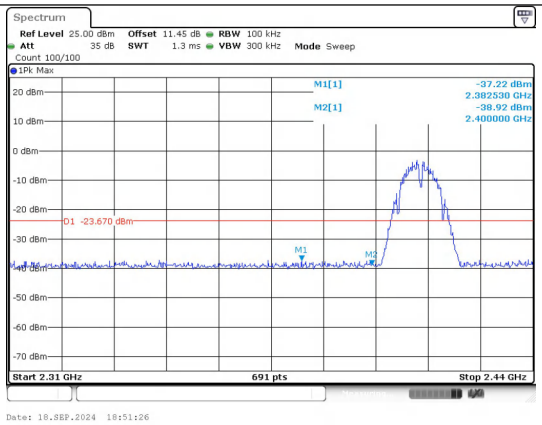
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2382.53	-37.221	-23.67	-13.551	PASS
			2400.00	-38.920	-23.67	-15.250	PASS
			6898.80	-43.065	-23.67	-19.395	PASS
	6		6904.66	-41.996	-24.51	-17.486	PASS
	11		2483.50	-37.798	-24.32	-13.478	PASS
			6957.09	-42.892	-24.32	-18.572	PASS
IEEE 802.11g	1		2343.58	-35.010	-31.39	-3.620	PASS
			2400.00	-38.084	-31.39	-6.694	PASS
			6915.50	-42.846	-31.39	-11.456	PASS
	6		6299.55	-42.005	-31.74	-10.265	PASS
	11		2483.50	-38.562	-30.86	-7.702	PASS
			6974.57	-42.795	-30.86	-11.935	PASS
IEEE 802.11n_20	1		2324.96	-36.331	-31.34	-4.991	PASS
			2400.00	-38.477	-31.34	-7.137	PASS
			22100.6	-42.938	-31.34	-11.598	PASS
	6		6793.96	-43.550	-32.47	-11.080	PASS
	11		2483.50	-38.404	-31.72	-6.684	PASS
			6585.87	-43.400	-31.72	-11.680	PASS
IEEE 802.11n_40	3		2340.76	-37.207	-33.41	-3.797	PASS
			2400.00	-38.708	-33.41	-5.298	PASS
			6156.40	-42.778	-33.41	-9.368	PASS
	6		6289.56	-42.962	-34.55	-8.412	PASS
	9		2483.50	-38.959	-33.28	-5.679	PASS
			6965.42	-43.064	-33.28	-9.784	PASS

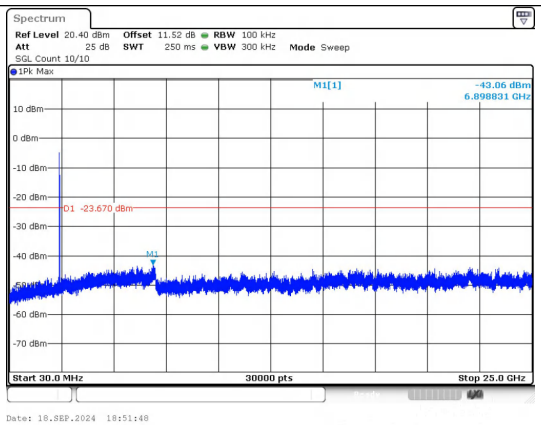
Test Graphs



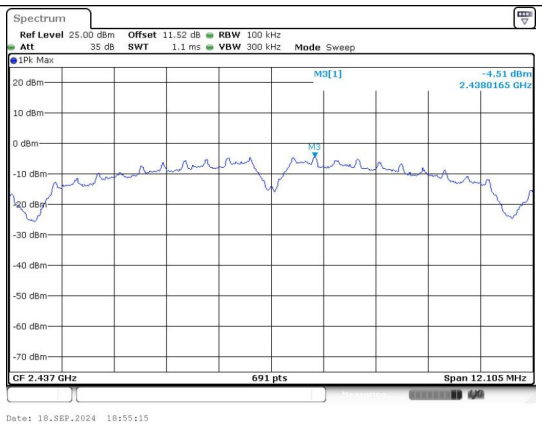
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



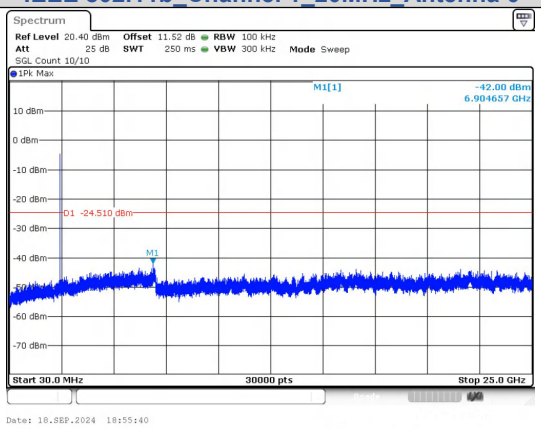
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



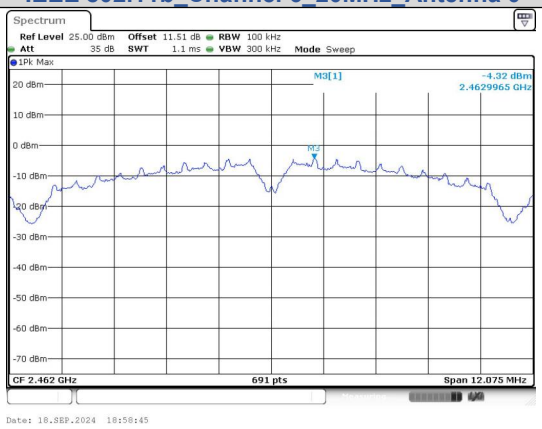
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



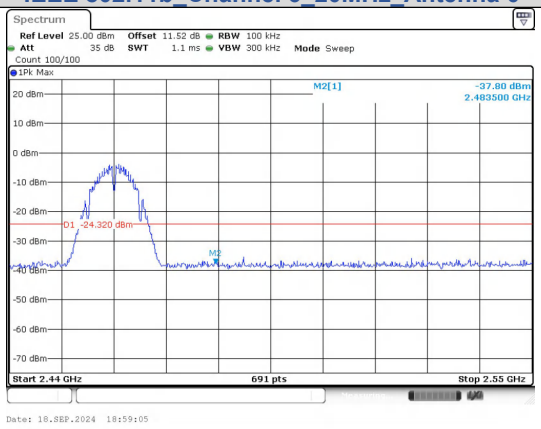
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



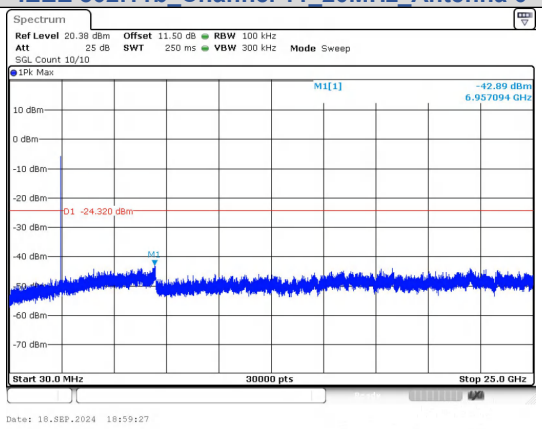
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



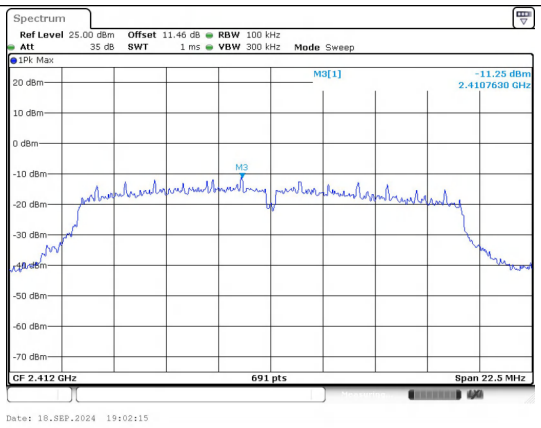
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



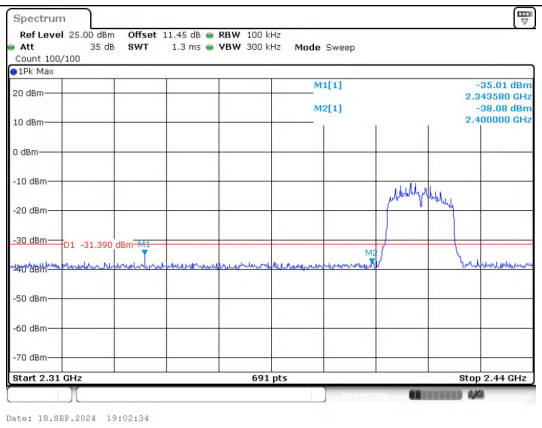
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



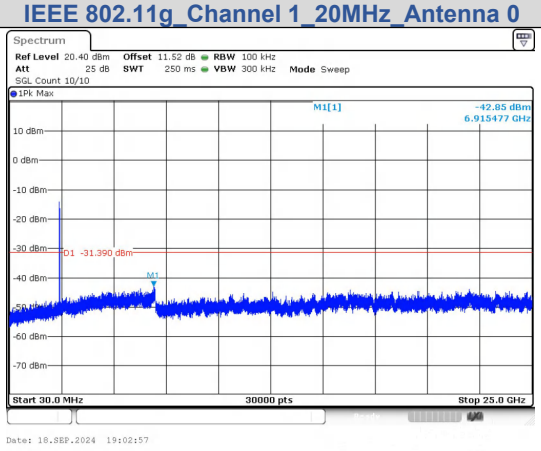
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



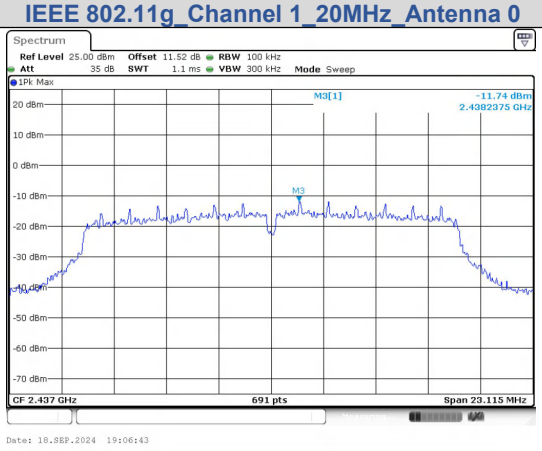
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



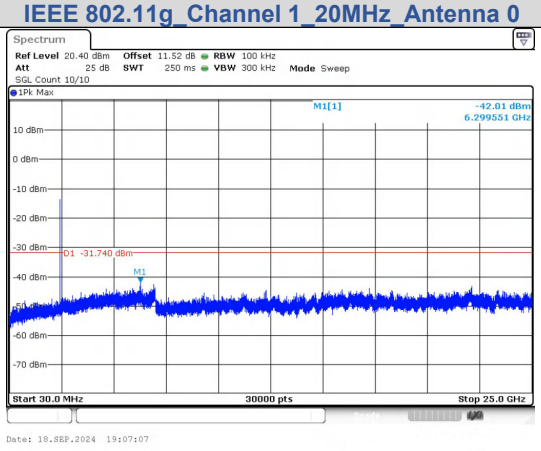
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



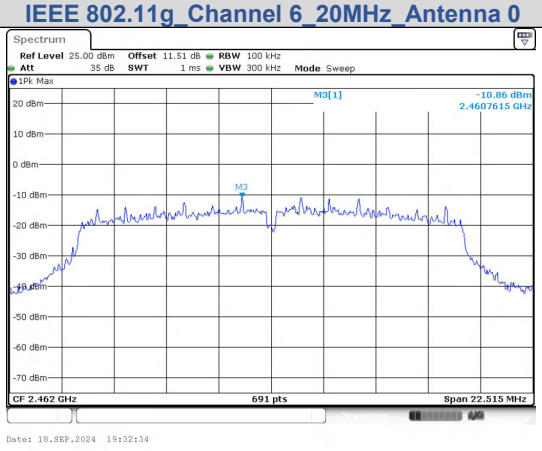
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



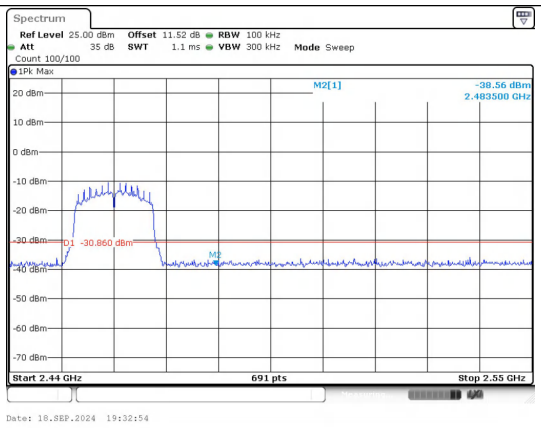
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



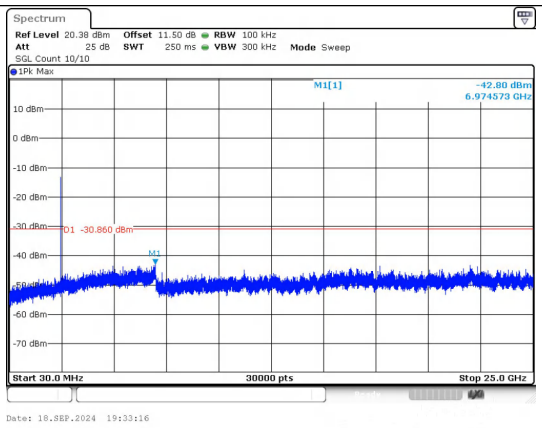
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



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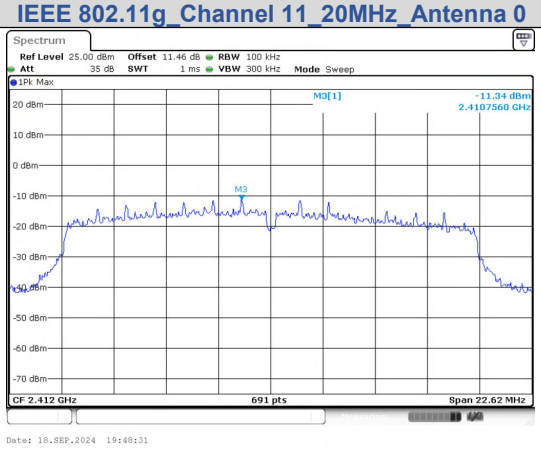
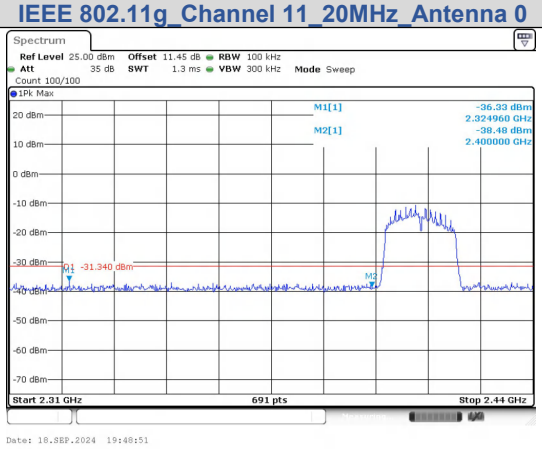
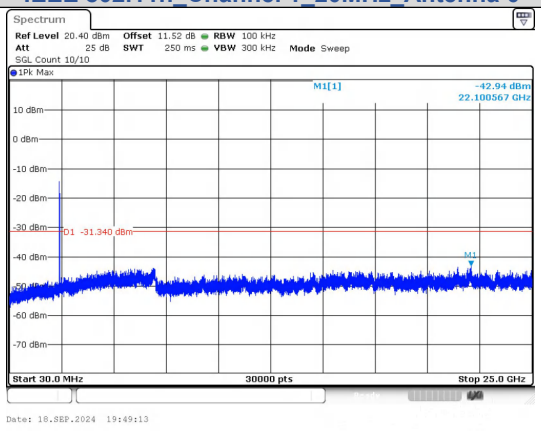
IEEE 802.11g_Channel 11_20MHz_Antenna 0



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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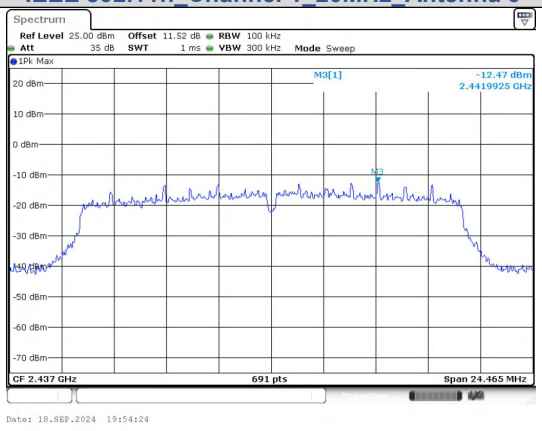
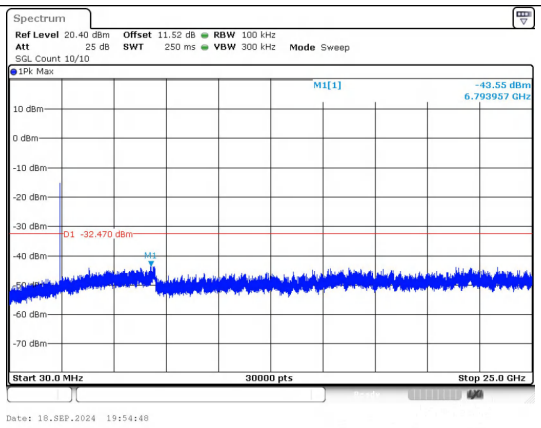
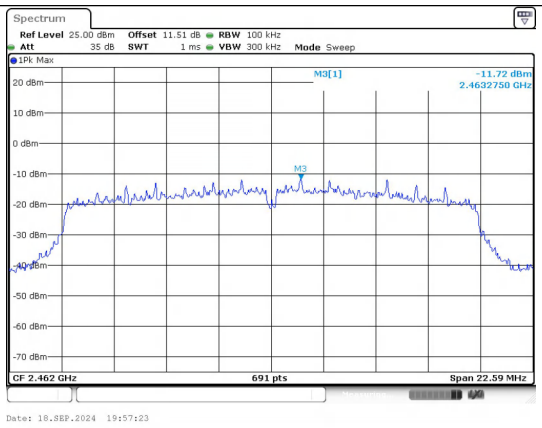
IEEE 802.11n_Channel 1_20MHz_Antenna 0



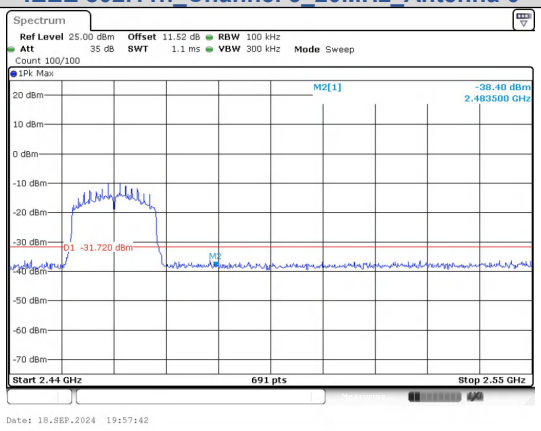
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



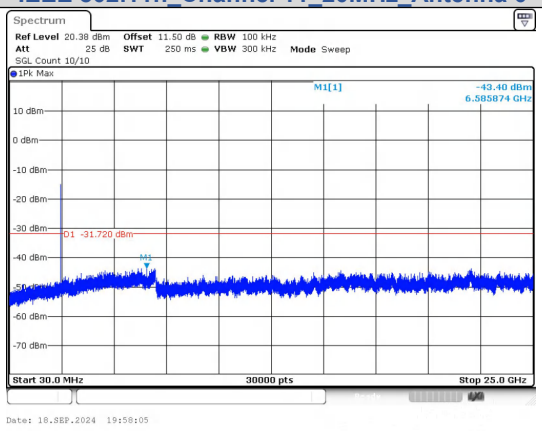
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



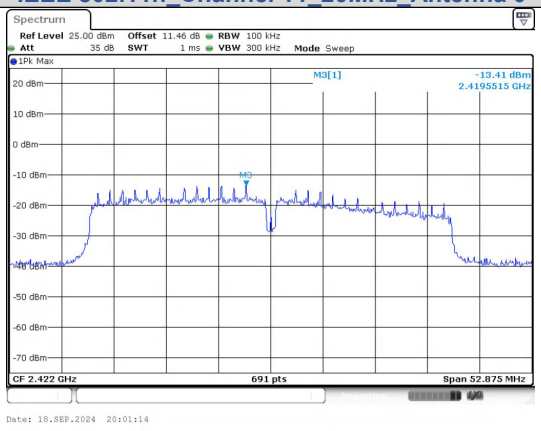
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



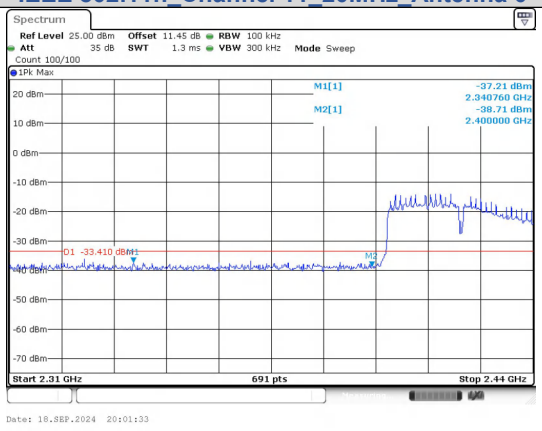
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



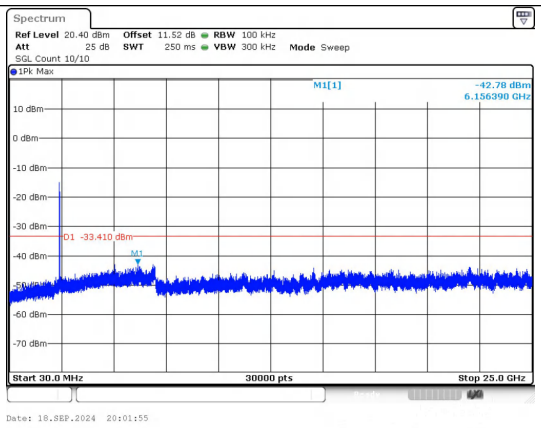
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



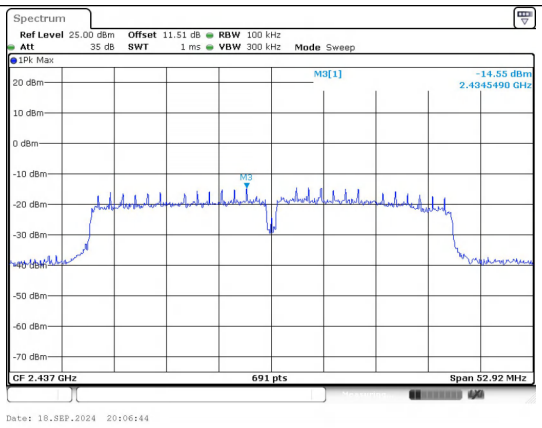
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



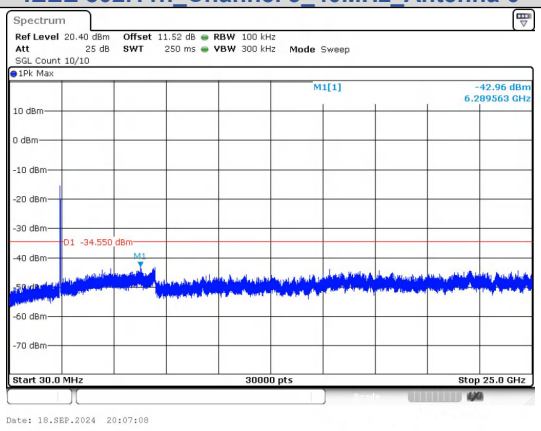
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



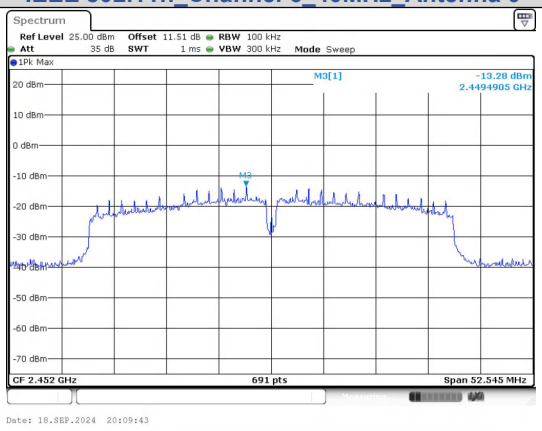
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



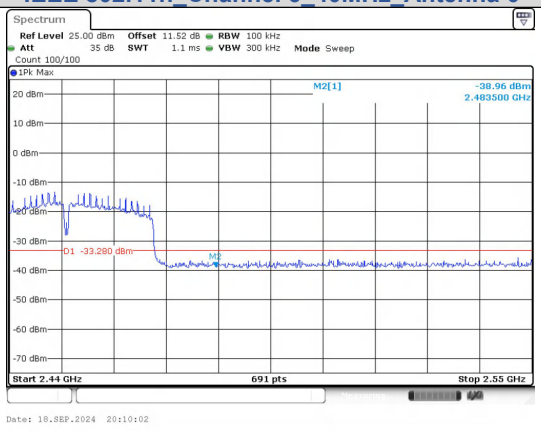
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



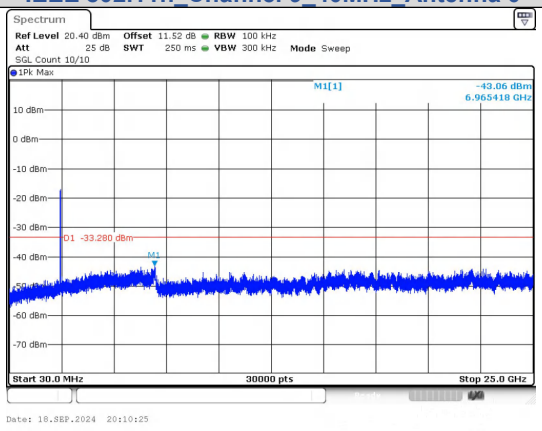
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 9_40MHz_Antenna 0