

Appendix Report

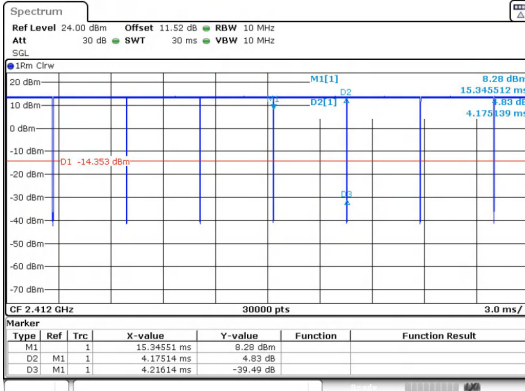
Project No.:	CISR250320170
Test Engineer:	James Wang
Supervised by:	Rory Huang

Duty Cycle

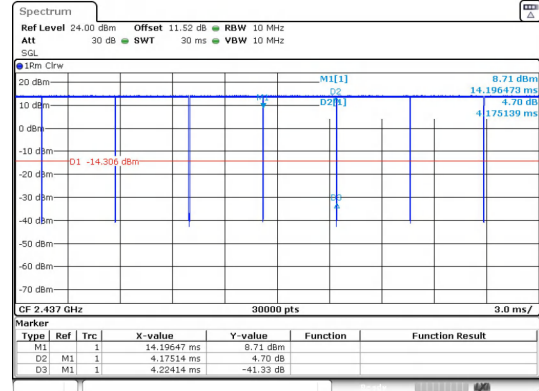
Test Result

Mode	Data rates	Channel	RU & Index	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	N/A	1	4.175	4.216	99.03	0.9903	0.0423	0.2395
		6			4.175	4.224	98.84	0.9884	0.0507	0.2395
		11			4.176	4.230	98.72	0.9872	0.0559	0.2395
1		1.400			1.468	95.37	0.9537	0.2059	0.7143	
6		1.400			1.468	95.37	0.9537	0.2059	0.7143	
11		1.400			1.476	94.85	0.9485	0.2296	0.7143	
IEEE 802.11g	MCS 0	1			1.312	1.362	96.33	0.9633	0.1624	0.7622
		6			1.312	1.357	96.68	0.9668	0.1466	0.7622
		11			1.312	1.384	94.80	0.9480	0.2319	0.7622
3		0.650			0.695	93.48	0.9348	0.2928	1.5385	
6		0.650			0.723	89.86	0.8986	0.4643	1.5385	
9		0.650			0.696	93.42	0.9342	0.2956	1.5385	
IEEE 802.11n_20		SU	1		4.213	4.258	98.94	0.9894	0.0463	0.2374
			6		4.216	4.253	99.15	0.9915	0.0371	0.2372
			11		4.213	4.246	99.22	0.9922	0.034	0.2374

Test Graphs



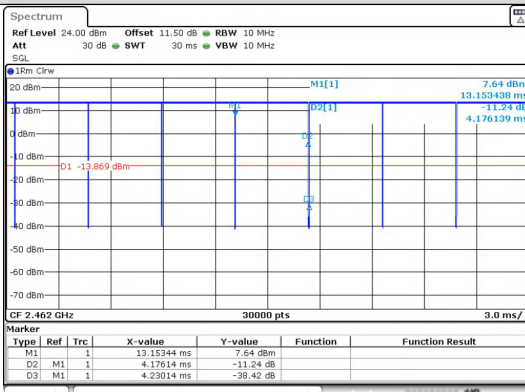
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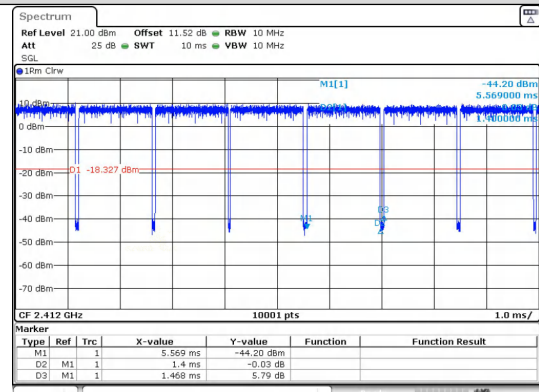
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IEEE 802.11b_20MHz_Channel 1

IEEE 802.11b_20MHz_Channel 6



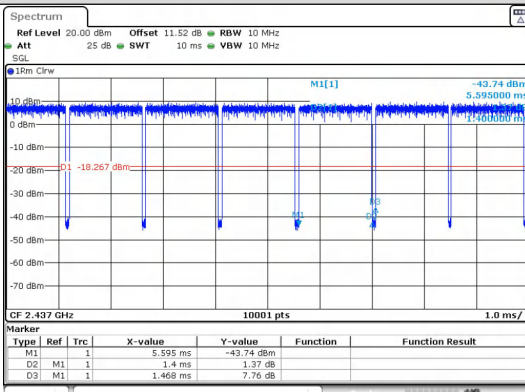
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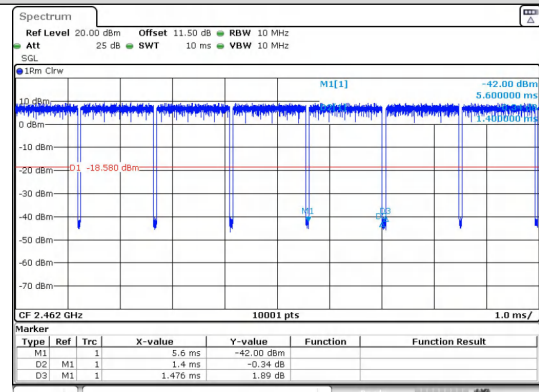
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IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



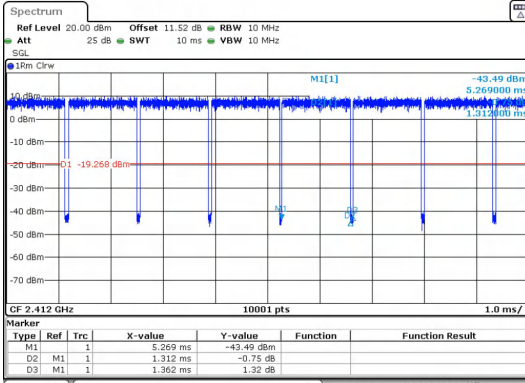
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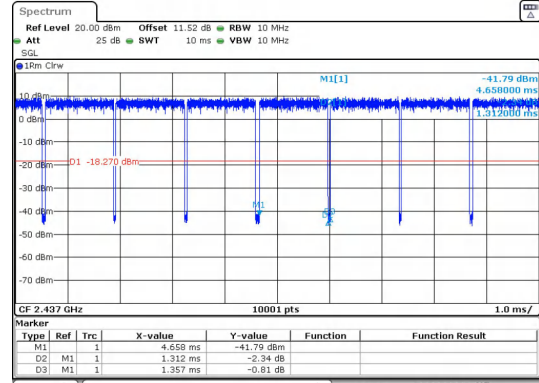
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IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



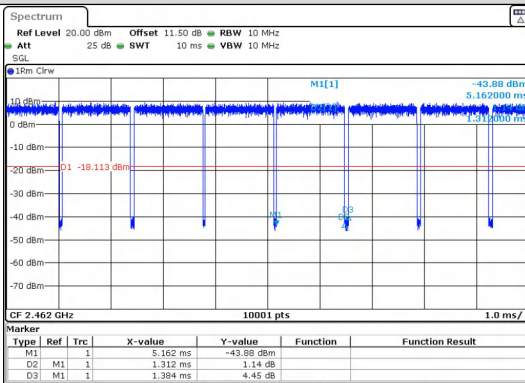
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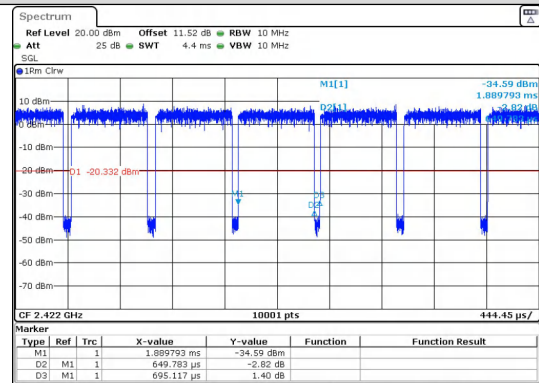
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IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6



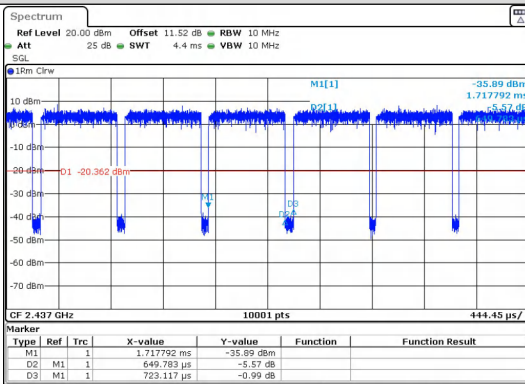
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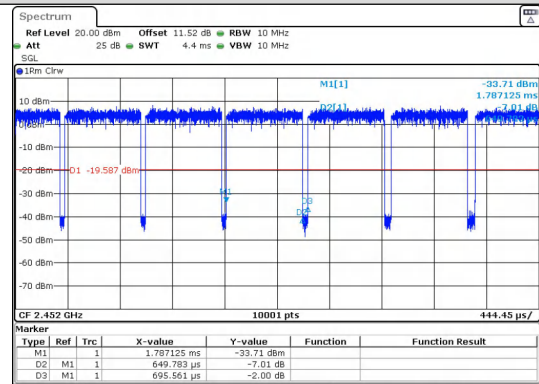
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IEEE 802.11n_20MHz_Channel 11

IEEE 802.11n_40MHz_Channel 3



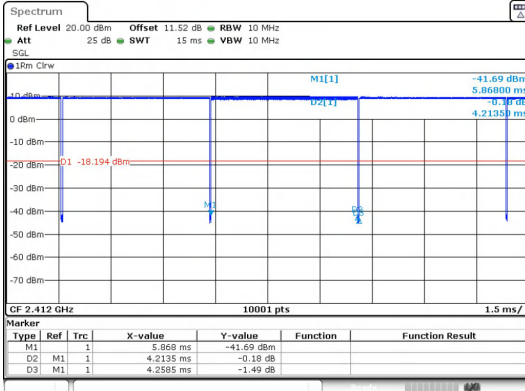
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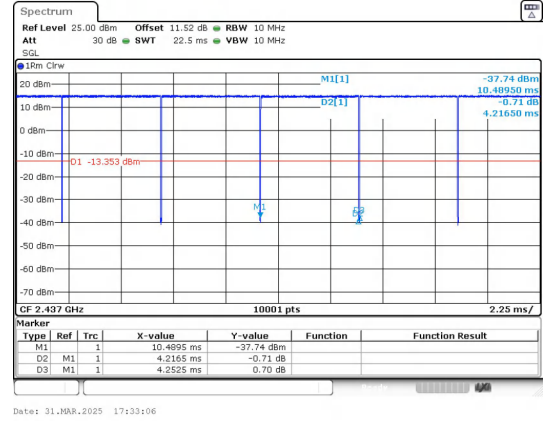
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IEEE 802.11n_40MHz_Channel 6

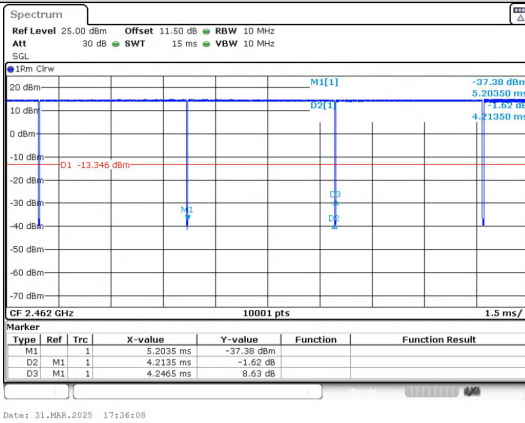
IEEE 802.11n_40MHz_Channel 9



IEEE 802.11ax_20MHz_Channel 1



IEEE 802.11ax_20MHz_Channel 6



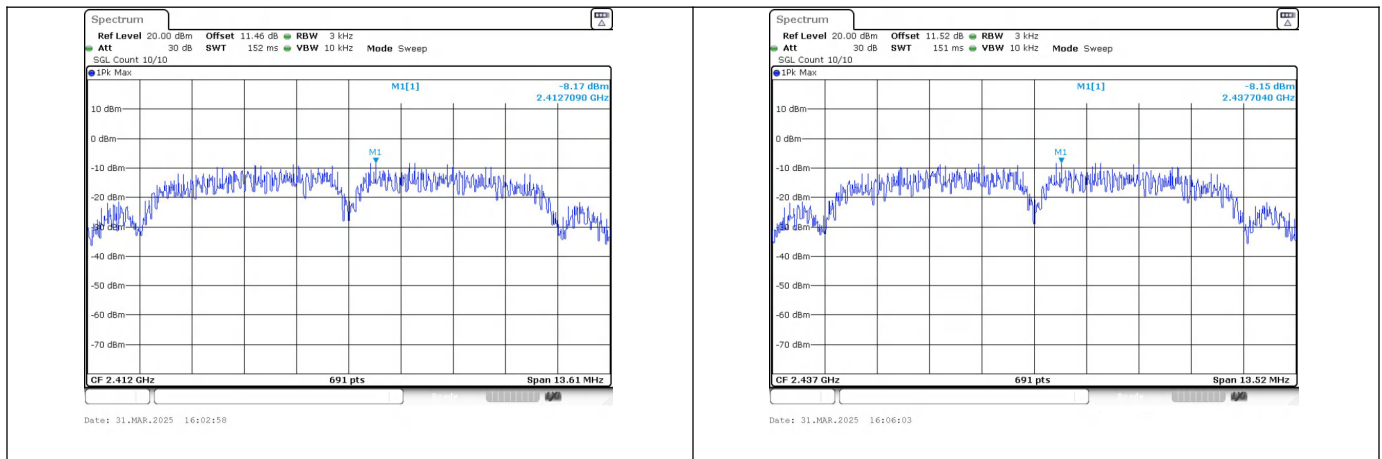
IEEE 802.11ax_20MHz_Channel 11

Power Spectral Density

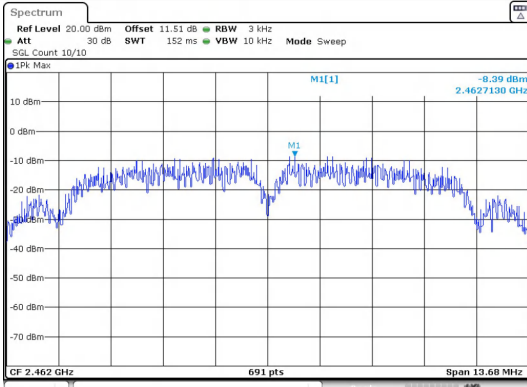
Test Result

Mode	Channel	RU & Index	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	N/A	-8.170	≤8	PASS
	6		-8.150		PASS
	11		-8.390		PASS
IEEE 802.11g	1		-17.200		PASS
	6		-18.250		PASS
	11		-18.590		PASS
IEEE 802.11n_20	1		-17.130		PASS
	6		-18.090		PASS
	11		-18.220		PASS
IEEE 802.11n_40	3		-20.040		PASS
	6		-19.180		PASS
	9		-21.010		PASS
IEEE 802.11ax_20	1	SU	-12.450		PASS
	6		-7.010		PASS
	11		-6.460		PASS

Test Graphs

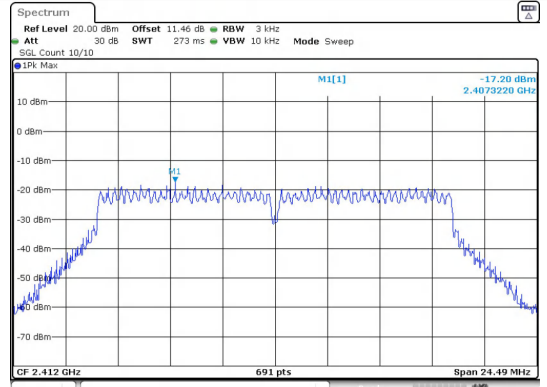


IEEE 802.11b_Channel 1_20MHz_Antenna 0



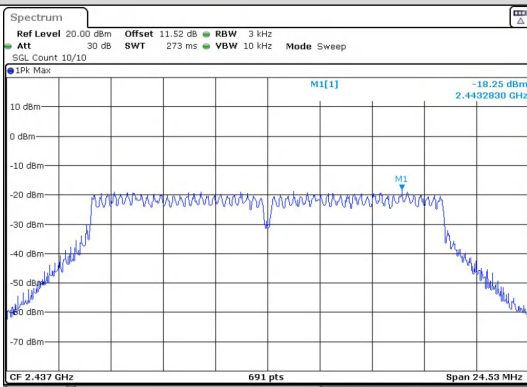
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IEEE 802.11b_Channel 6_20MHz_Antenna 0



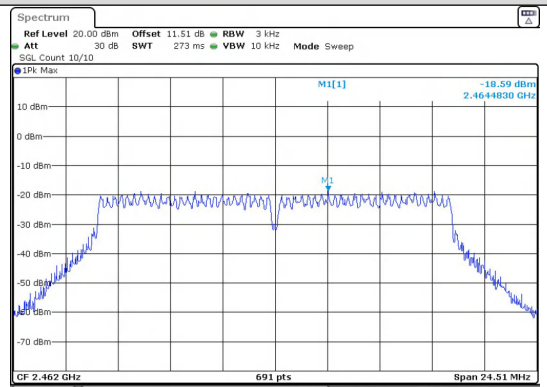
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



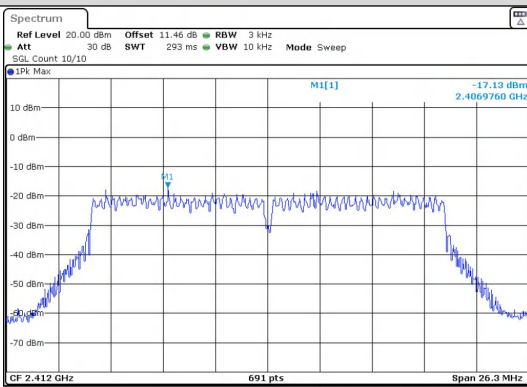
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IEEE 802.11g_Channel 1_20MHz_Antenna 0



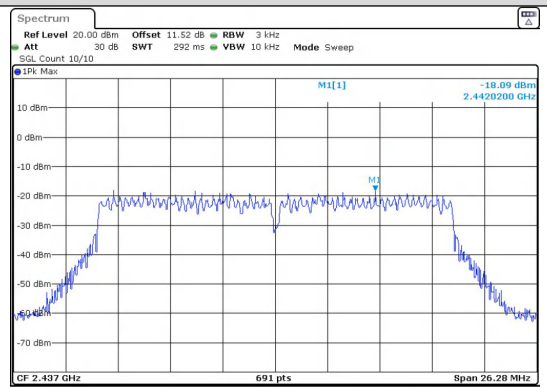
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



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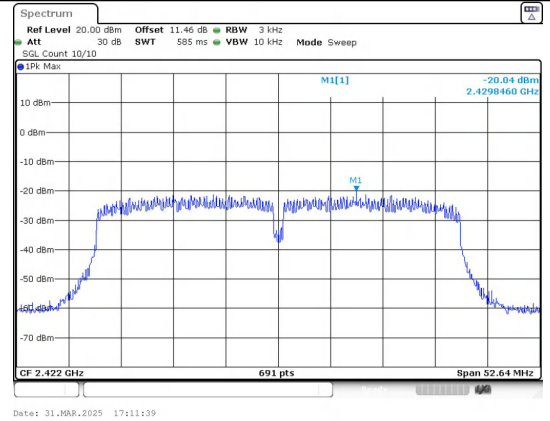
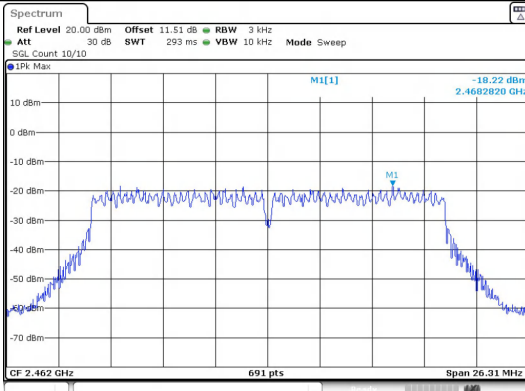
IEEE 802.11g_Channel 11_20MHz_Antenna 0



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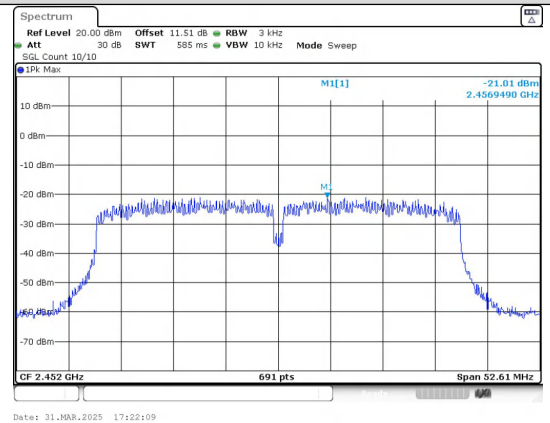
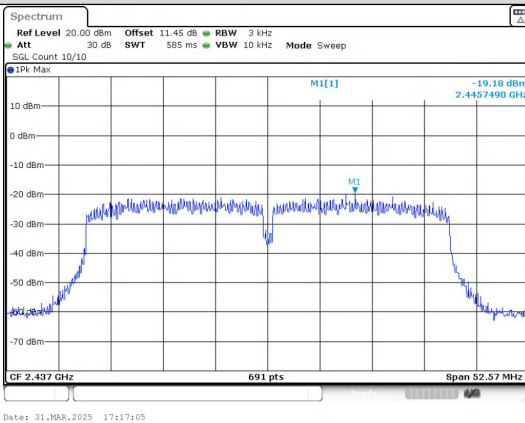
IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



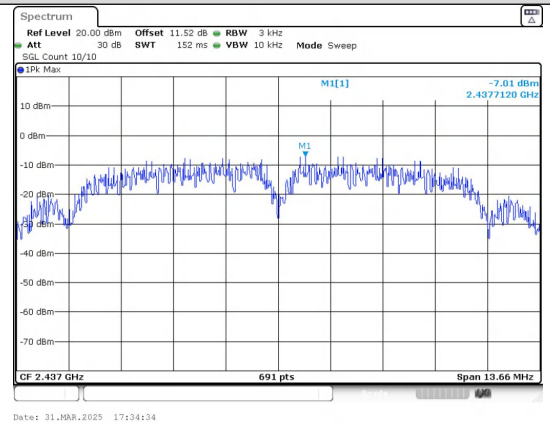
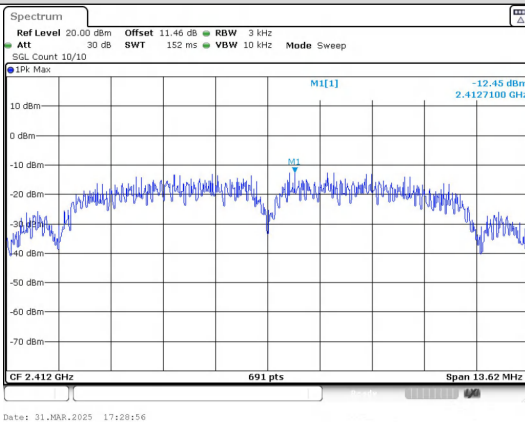
IEEE 802.11n_Channel 11_20MHz_Antenna 0

IEEE 802.11n_Channel 3_40MHz_Antenna 0



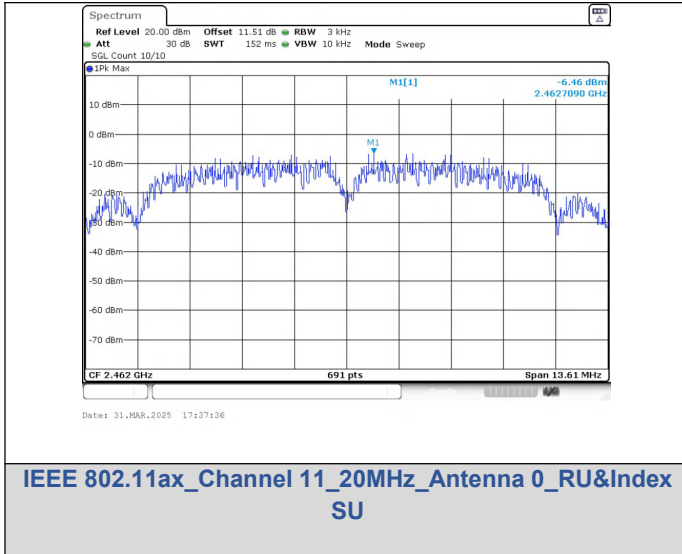
IEEE 802.11n_Channel 6_40MHz_Antenna 0

IEEE 802.11n_Channel 9_40MHz_Antenna 0



IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU

IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



Conducted Output Power

Test Result

Conducted Output Power

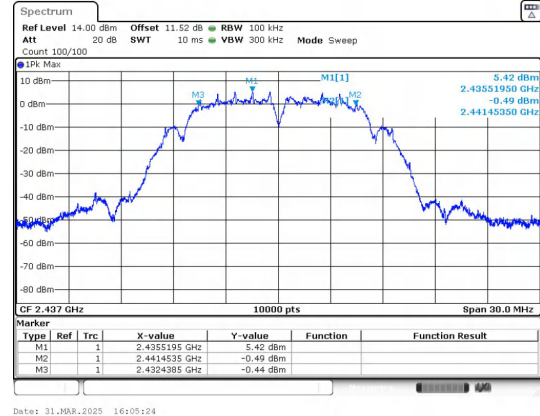
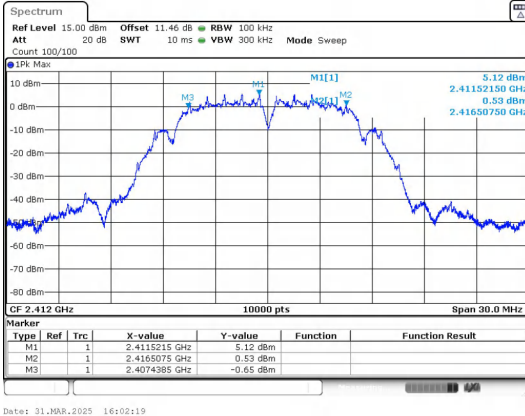
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	18.46	≤30	PASS
	6	18.46	≤30	PASS
	11	18.11	≤30	PASS
IEEE 802.11g	1	17.03	≤30	PASS
	6	16.65	≤30	PASS
	11	17.18	≤30	PASS
IEEE 802.11n_20	1	17.29	≤30	PASS
	6	16.95	≤30	PASS
	11	17.01	≤30	PASS
IEEE 802.11n_40	3	16.99	≤30	PASS
	6	16.91	≤30	PASS
	9	16.98	≤30	PASS
IEEE 802.11ax_20	1	18.43	≤30	PASS
	6	18.48	≤30	PASS
	11	18.87	≤30	PASS

6dB Bandwidth

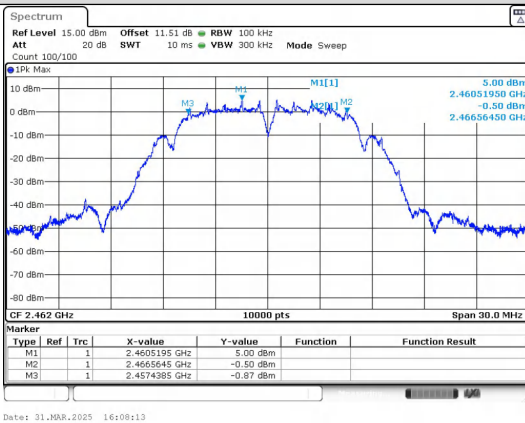
Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	9.070	≥0.5	PASS
	6			2437	9.010		PASS
	11			2462	9.120		PASS
IEEE 802.11g	1			2412	16.33		PASS
	6			2437	16.35		PASS
	11			2462	16.34		PASS
IEEE 802.11n_20	1			2412	17.53		PASS
	6			2437	17.52		PASS
	11			2462	17.54		PASS
IEEE 802.11n_40	3			2422	35.09		PASS
	6			2437	35.05		PASS
	9			2452	35.07		PASS
IEEE 802.11ax_20	1	SU	2412	9.080	PASS		
	6		2437	9.110	PASS		
	11		2462	9.070	PASS		

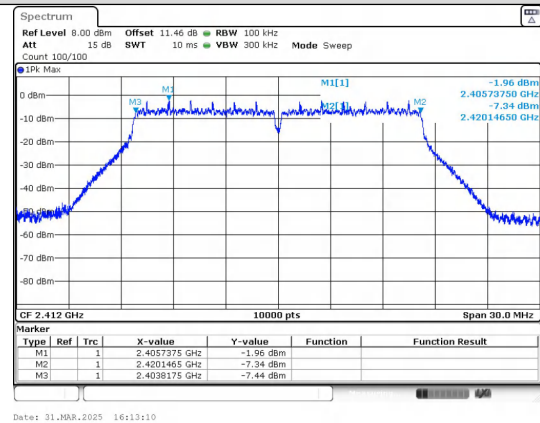
Test Graphs



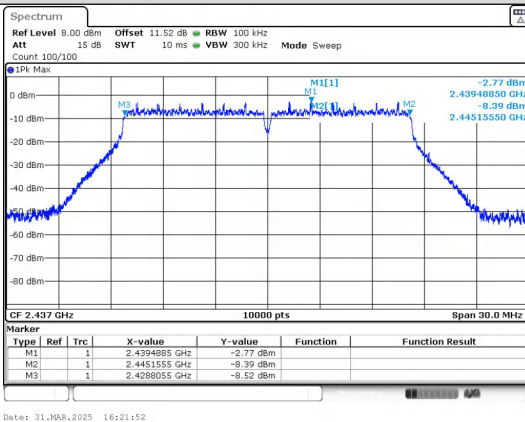
IEEE 802.11b_Channel 1_20MHz_Antenna 0



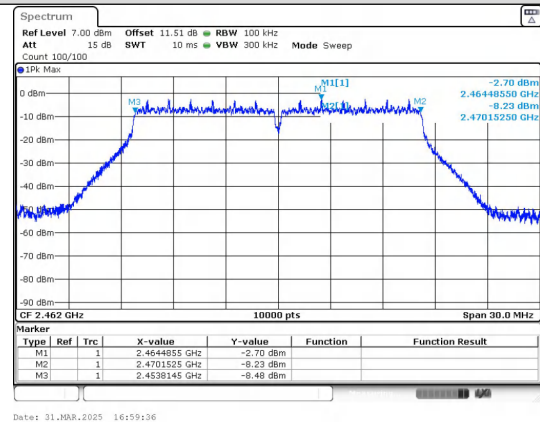
IEEE 802.11b_Channel 6_20MHz_Antenna 0



IEEE 802.11b_Channel 11_20MHz_Antenna 0

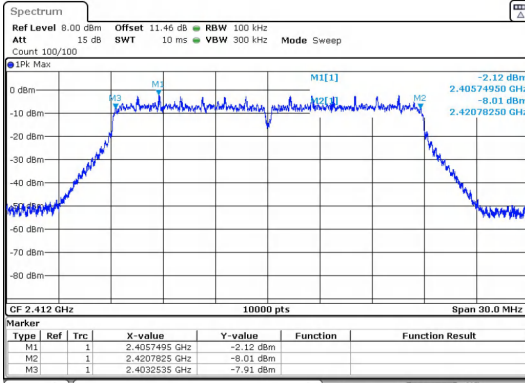


IEEE 802.11g_Channel 1_20MHz_Antenna 0

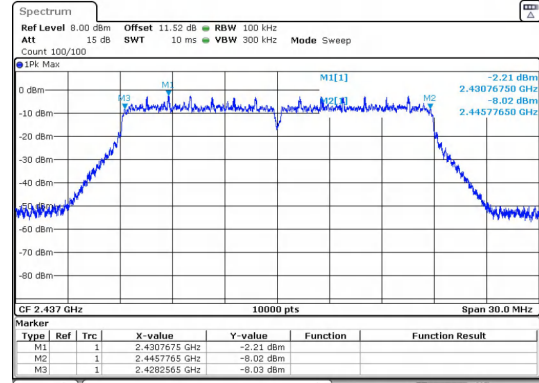


IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0

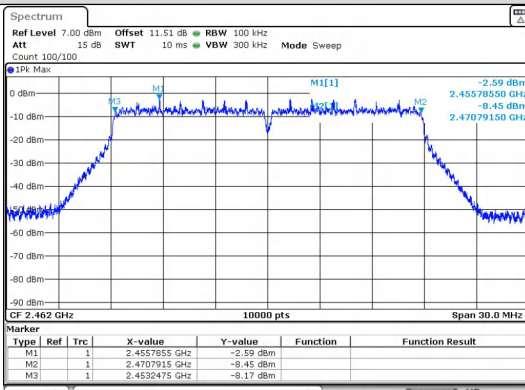


Date: 31.MAR.2025 16:29:57

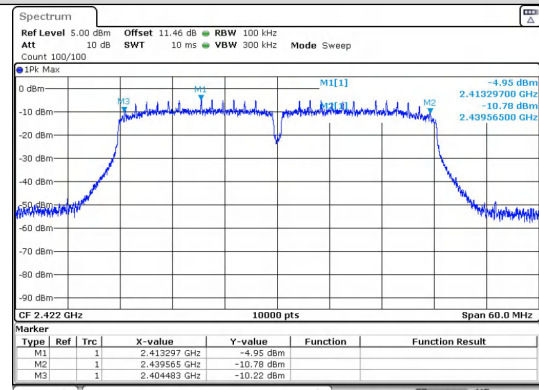


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IEEE 802.11n_Channel 1_20MHz_Antenna 0

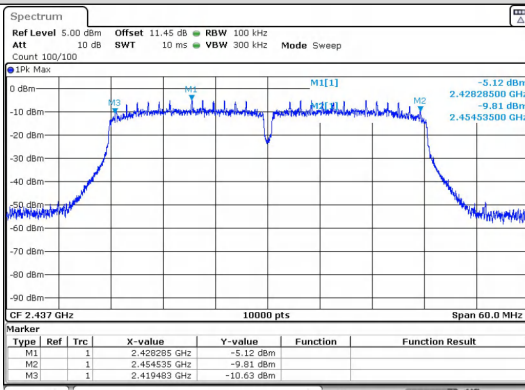


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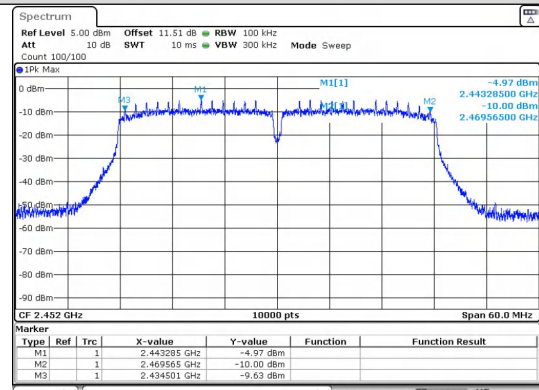


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IEEE 802.11n_Channel 11_20MHz_Antenna 0



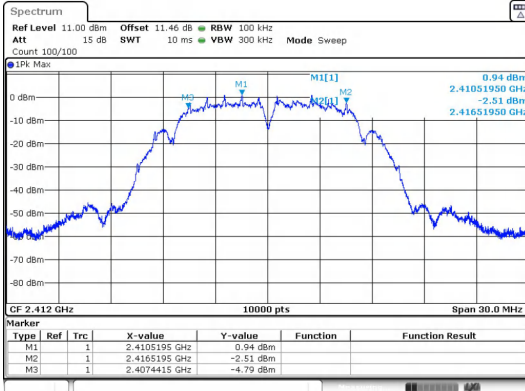
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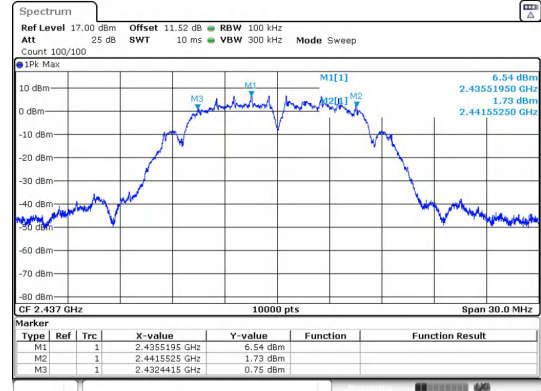
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IEEE 802.11n_Channel 6_40MHz_Antenna 0

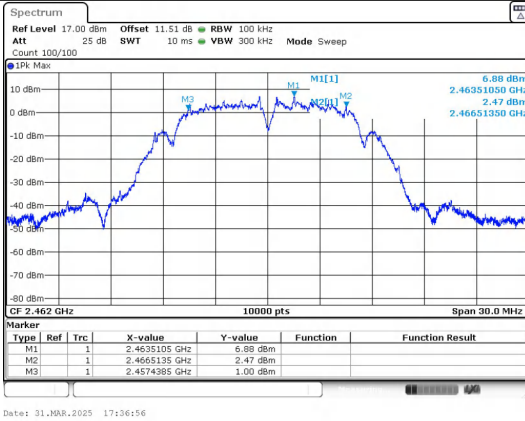
IEEE 802.11n_Channel 9_40MHz_Antenna 0



IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index
SU



IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index
SU



IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index
SU

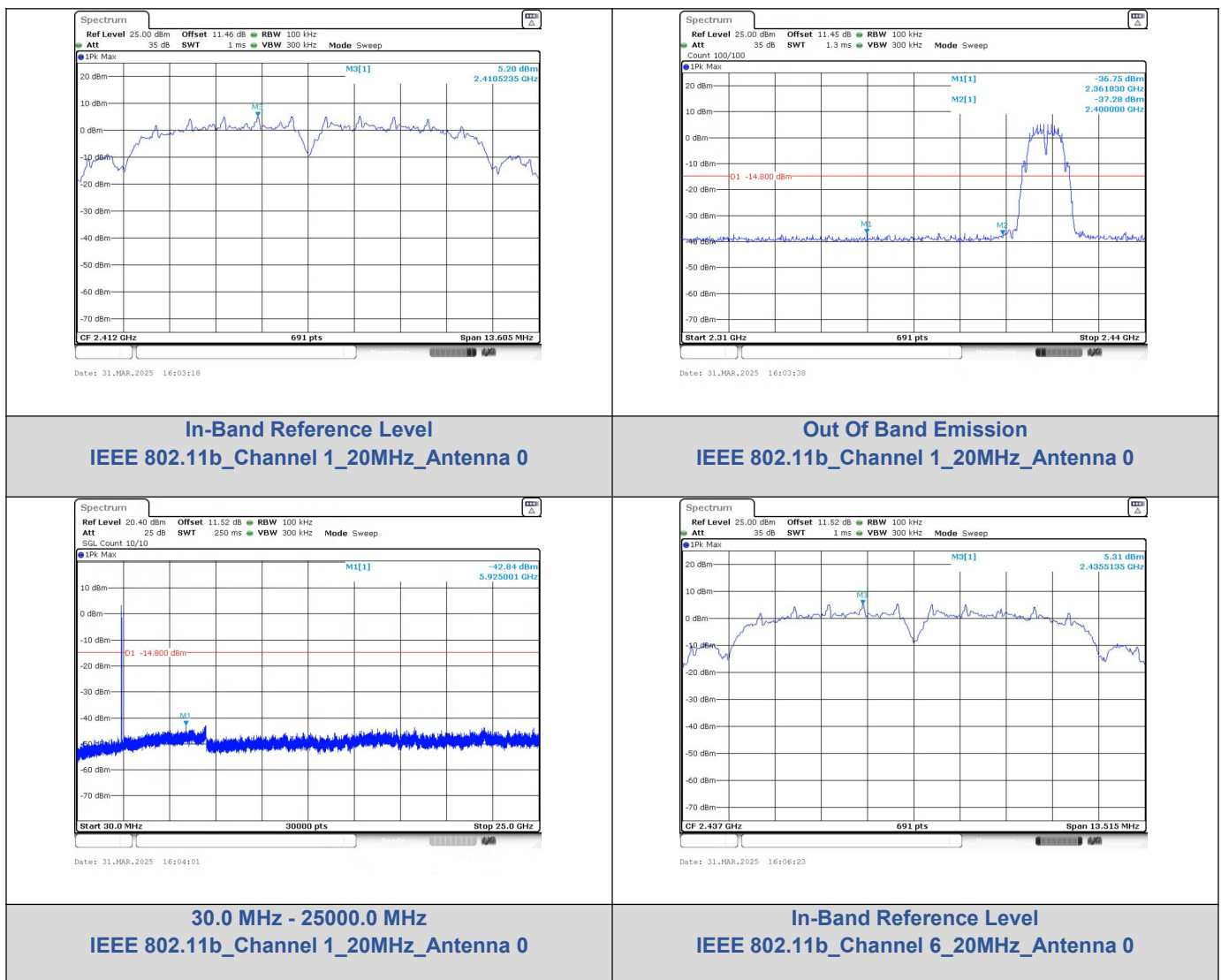
Conducted Out Of Band Emission

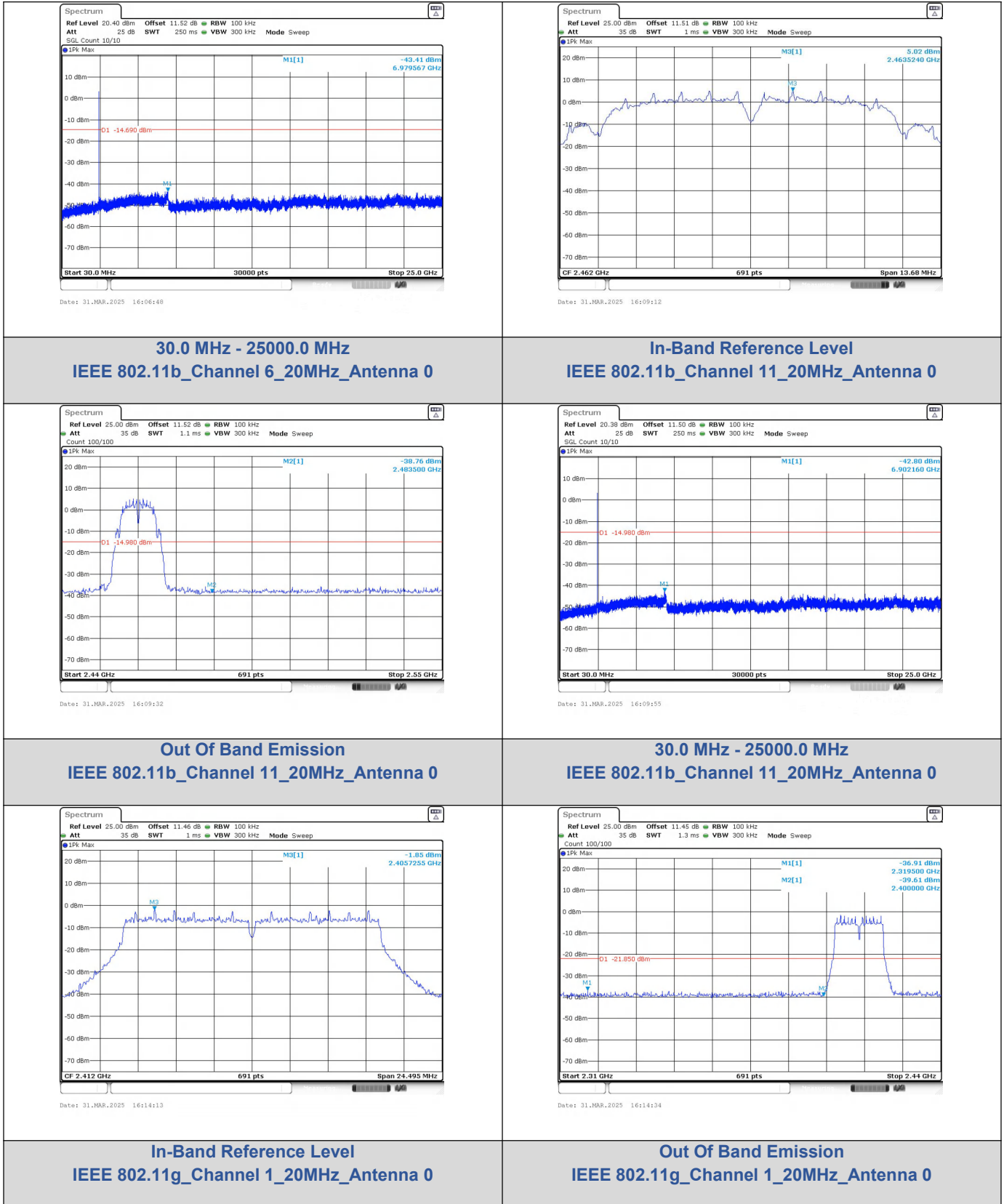
Test Result

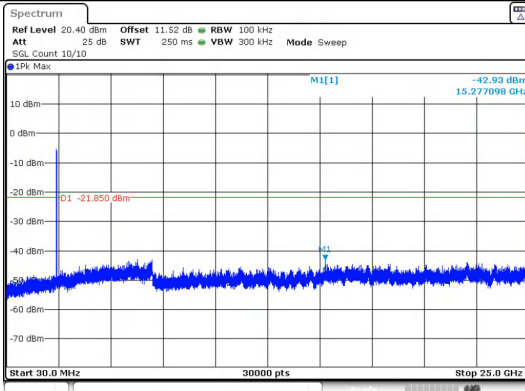
Mode	Channel	RU & Index	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	
IEEE 802.11b	1	N/A	0	2361.83	-36.749	-14.8	-21.949	PASS	
				2400.00	-37.280	-14.8	-22.480	PASS	
				5925.00	-42.839	-14.8	-28.039	PASS	
	6			6979.57	-43.407	-14.69	-28.717	PASS	
				11	2483.50	-38.760	-14.98	-23.780	PASS
					6902.16	-42.805	-14.98	-27.825	PASS
IEEE 802.11g	1				2319.50	-36.912	-21.85	-15.062	PASS
				2400.00	-39.610	-21.85	-17.760	PASS	
				15277.1	-42.933	-21.85	-21.083	PASS	
	6			6962.92	-42.545	-21.84	-20.705	PASS	
				11	2483.50	-38.330	-21.82	-16.510	PASS
					6749.84	-42.789	-21.82	-20.969	PASS
IEEE 802.11n_20	1				2369.73	-36.706	-22.31	-14.396	PASS
				2400.00	-38.470	-22.31	-16.160	PASS	
				6963.80	-42.612	-22.31	-20.302	PASS	
	6			6893.00	-42.764	-22.59	-20.174	PASS	
				11	2483.50	-38.210	-22.42	-15.790	PASS
					22070.6	-43.160	-22.42	-20.740	PASS
IEEE 802.11n_40	3				2377.63	-36.942	-24.88	-12.062	PASS
				2400.00	-38.410	-24.88	-13.530	PASS	
				6943.80	-42.132	-24.88	-17.252	PASS	
	6			6947.94	-42.435	-24.7	-17.735	PASS	
				9	2483.50	-37.030	-25.05	-11.980	PASS
					6924.63	-42.919	-25.05	-17.869	PASS

IEEE 802.11ax_20	1	SU		2351.67	-36.675	-19.0	-17.675	PASS
				2400.00	-37.580	-19.0	-18.580	PASS
				6910.50	-43.255	-19.0	-24.255	PASS
	6			6989.56	-42.992	-13.62	-29.372	PASS
	11			2483.50	-37.600	-13.14	-24.460	PASS
				6189.68	-43.356	-13.14	-30.216	PASS

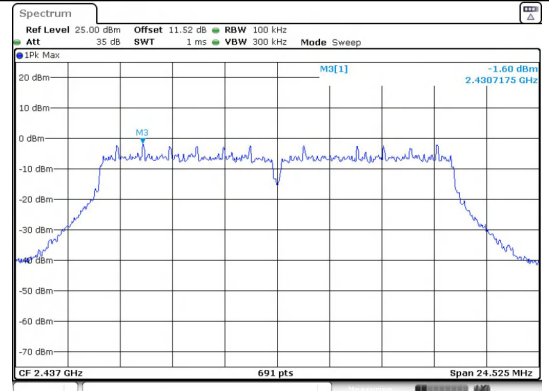
Test Graphs







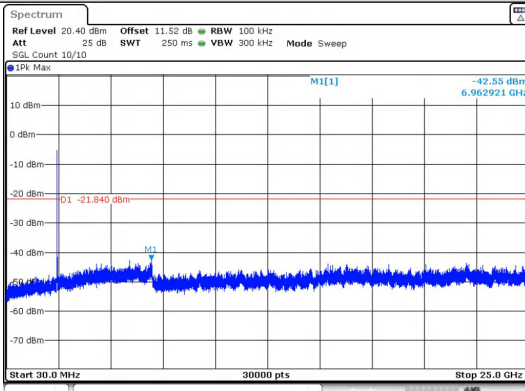
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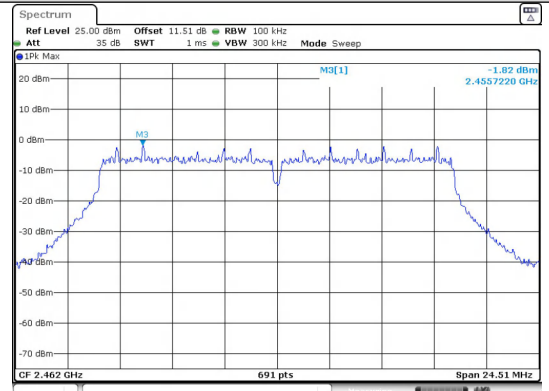
Date: 31.MAR.2025 16:22:53

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



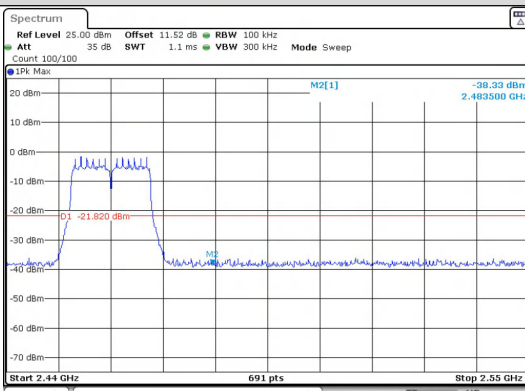
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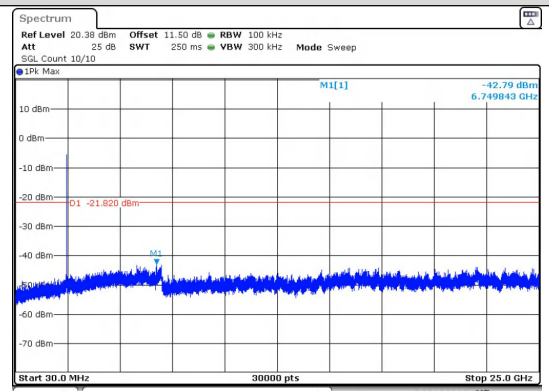
Date: 31.MAR.2025 17:00:37

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



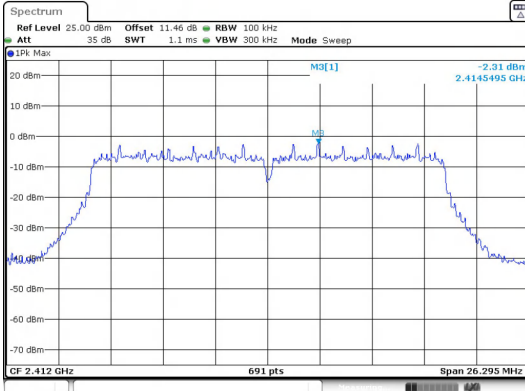
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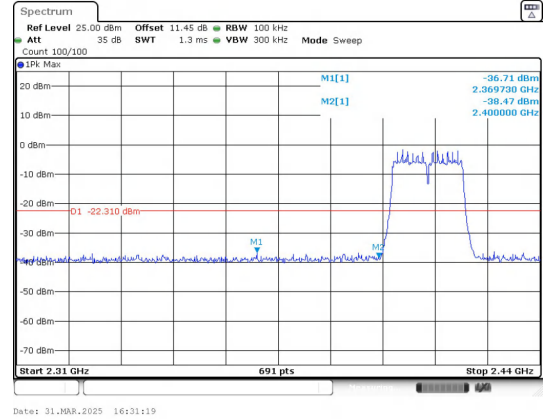
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Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0

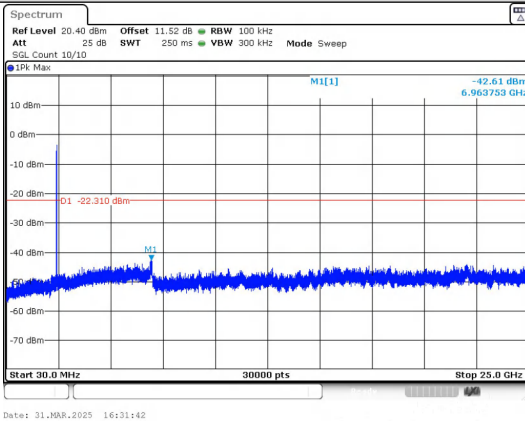
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



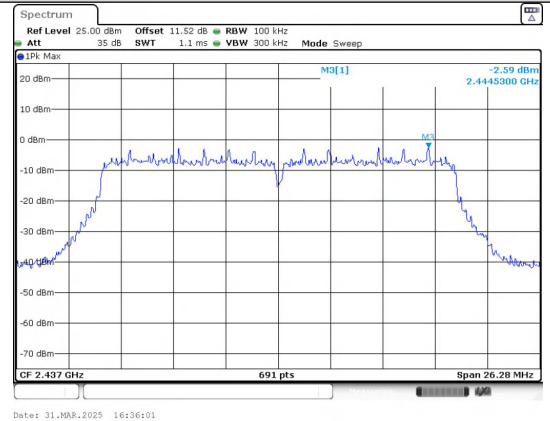
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



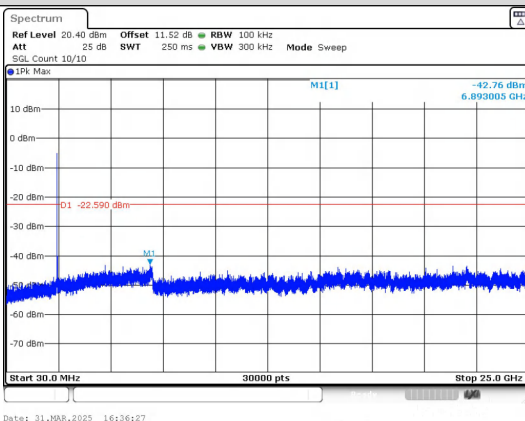
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



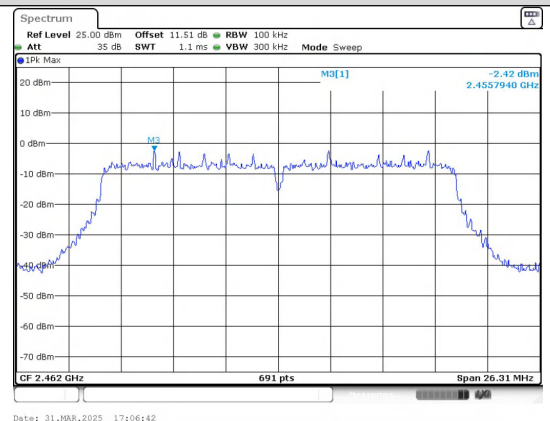
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



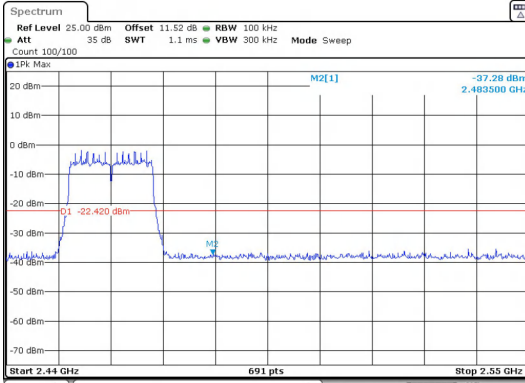
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



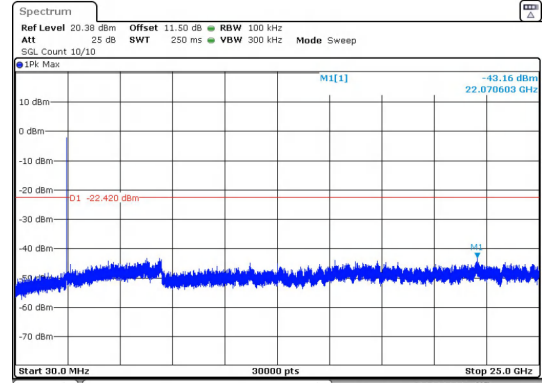
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IEEE 802.11n_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



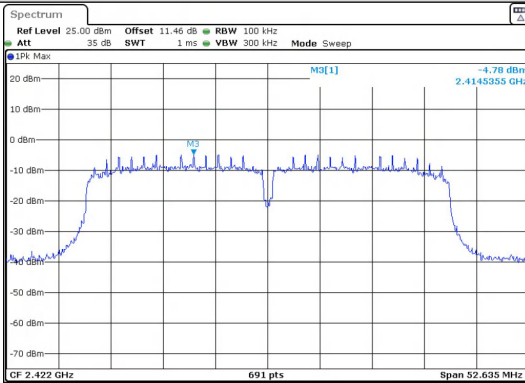
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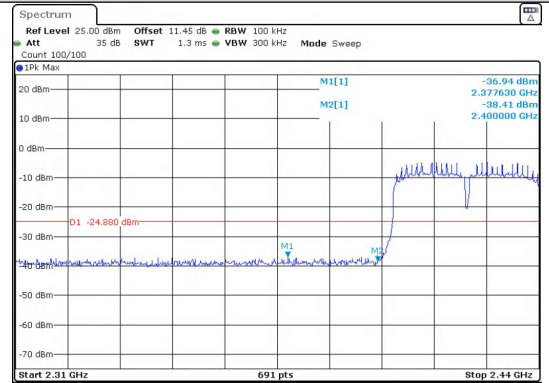
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Out Of Band Emission IEEE 802.11n_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 11_20MHz_Antenna 0



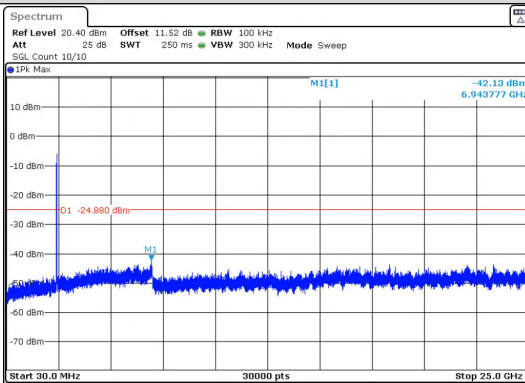
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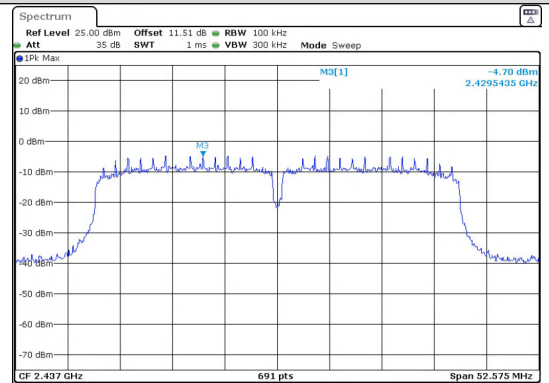
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In-Band Reference Level IEEE 802.11n_Channel 3_40MHz_Antenna 0

Out Of Band Emission IEEE 802.11n_Channel 3_40MHz_Antenna 0



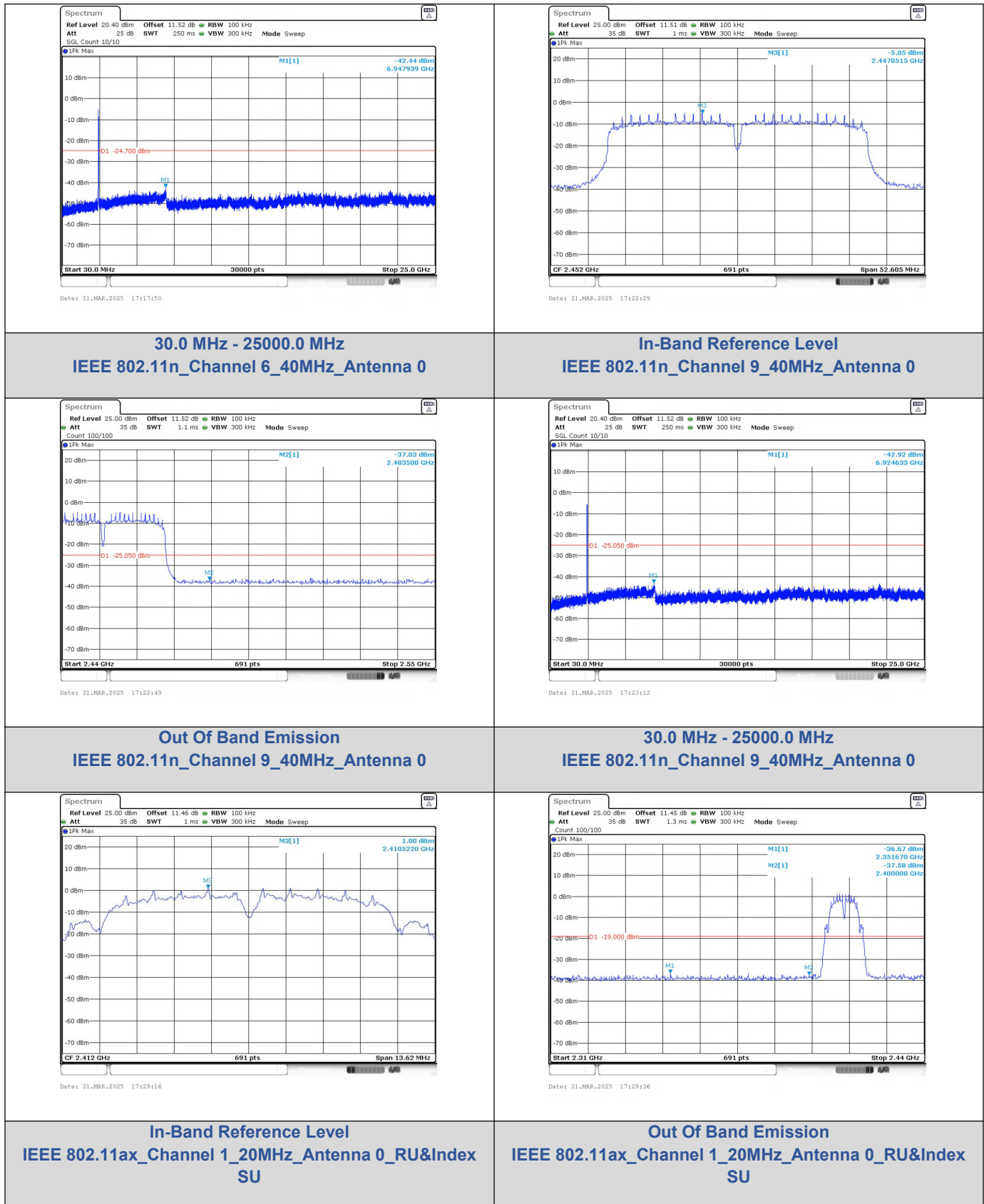
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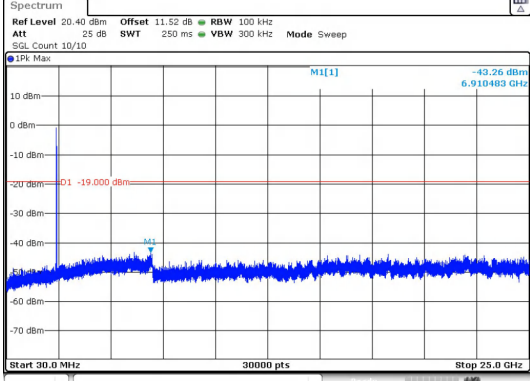
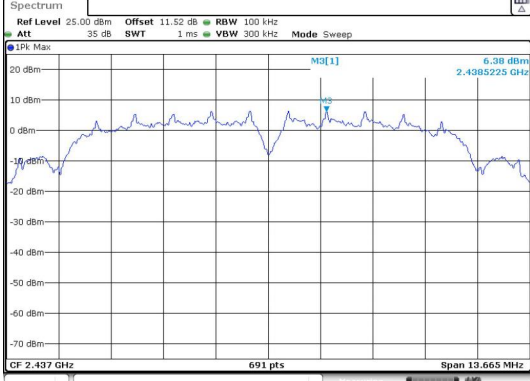
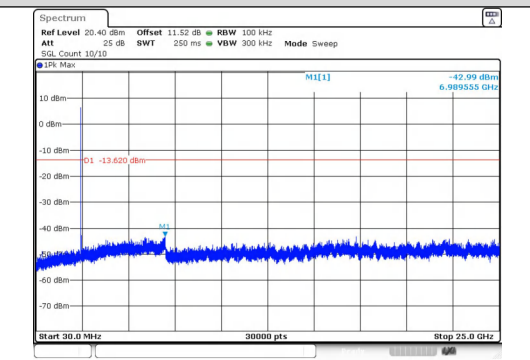
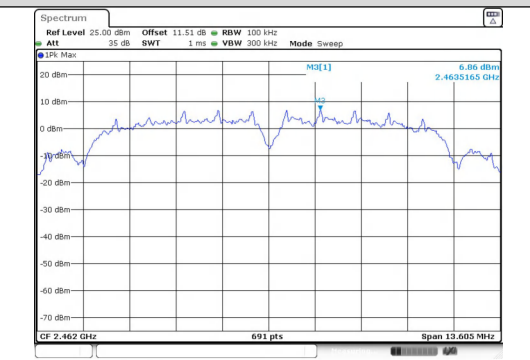
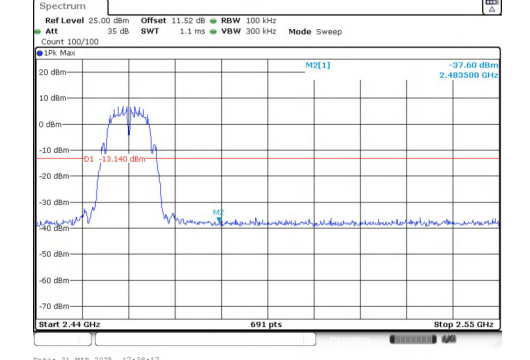
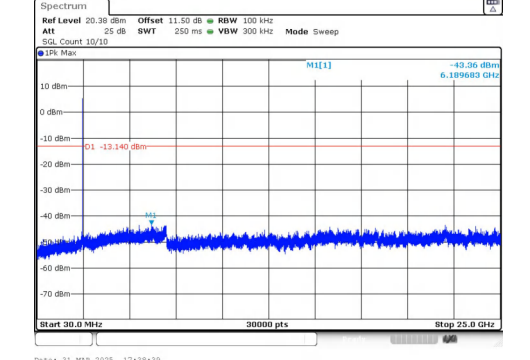


Date: 31.MAR.2025 17:17:25

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 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU	 In-Band Reference Level IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU
 30.0 MHz - 25000.0 MHz IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU	 In-Band Reference Level IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU
 Out Of Band Emission IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU	 30.0 MHz - 25000.0 MHz IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU

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