

Appendix Report

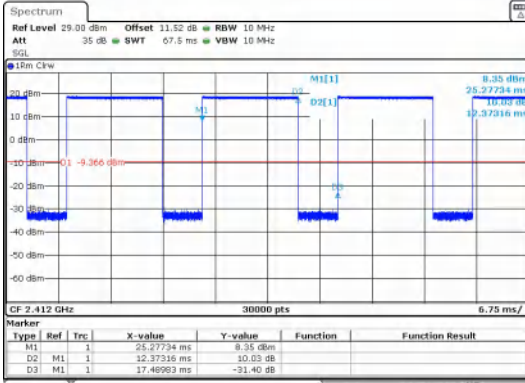
Project No.:	CISR250320172
Test Engineer:	James Wang
Supervised by:	Rory Huang

Duty Cycle

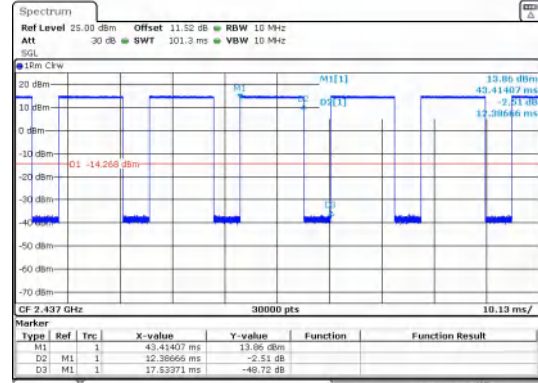
Test Result

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	12.373	17.490	70.74	0.7074	1.5033	0.0808
		6			12.387	17.534	70.64	0.7064	1.5095	0.0807
		11			12.373	17.497	70.72	0.7072	1.5046	0.0808
1		2.068			2.252	91.83	0.9183	0.3702	0.4836	
6		2.079			7.229	28.76	0.2876	5.4121	0.4810	
11		2.072			5.081	40.79	0.4079	3.8945	0.4826	
IEEE 802.11g	1	2.072			5.076	40.82	0.4082	3.8913	0.4826	
	6	2.072			5.065	40.92	0.4092	3.8806	0.4826	
	11	2.079			5.076	40.96	0.4096	3.8764	0.4810	
IEEE 802.11n_20	MCS 0	3			0.650	0.695	93.54	0.9354	0.29	1.5385
		6			0.650	0.696	93.30	0.9330	0.3012	1.5385
		9			0.650	0.696	93.42	0.9342	0.2956	1.5385
IEEE 802.11n_40		1	2.072		5.083	40.77	0.4077	3.8966	0.4826	
		6	2.076		5.086	40.81	0.4081	3.8923	0.4817	
		11	2.072		5.076	40.82	0.4082	3.8913	0.4826	
IEEE 802.11ax_20		SU								

Test Graphs



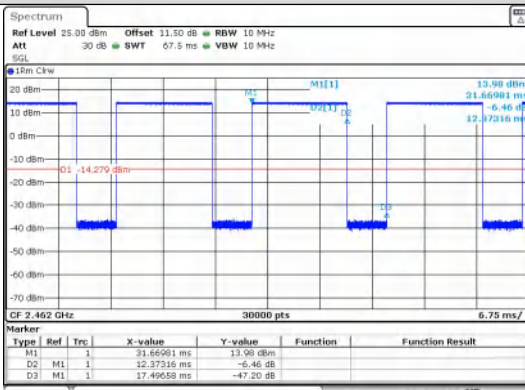
Date: 28-JAN-2025 20:29:29



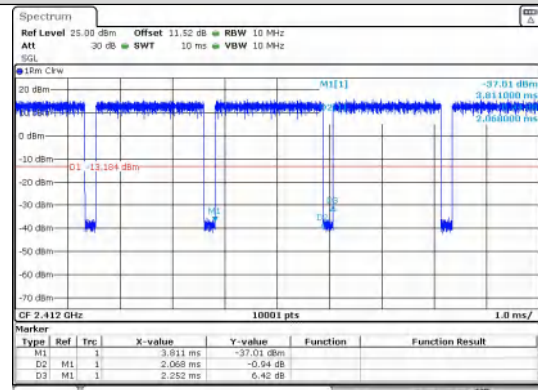
Date: 28-JAN-2025 20:55:39

IEEE 802.11b_20MHz_Channel 1

IEEE 802.11b_20MHz_Channel 6



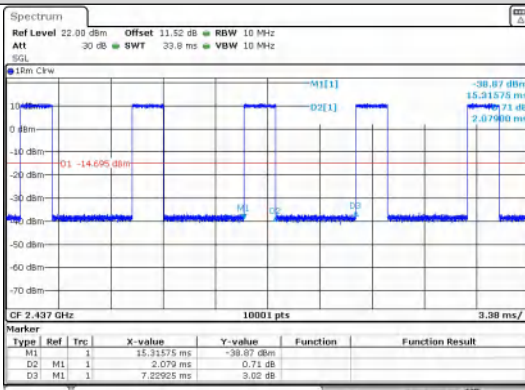
Date: 28-JAN-2025 20:59:41



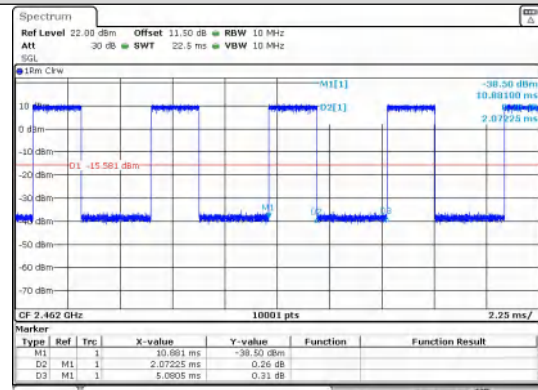
Date: 28-JAN-2025 21:04:30

IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



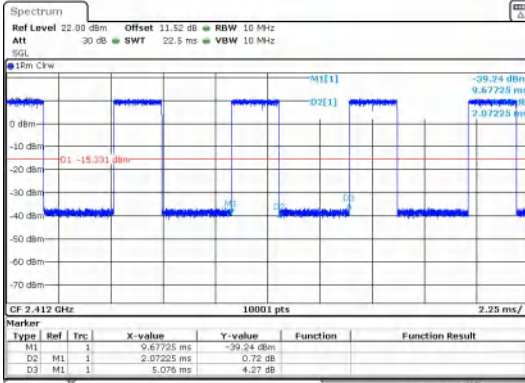
Date: 28-JAN-2025 21:10:45



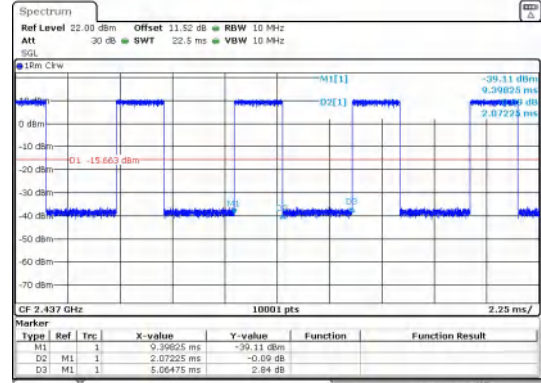
Date: 28-JAN-2025 22:10:31

IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



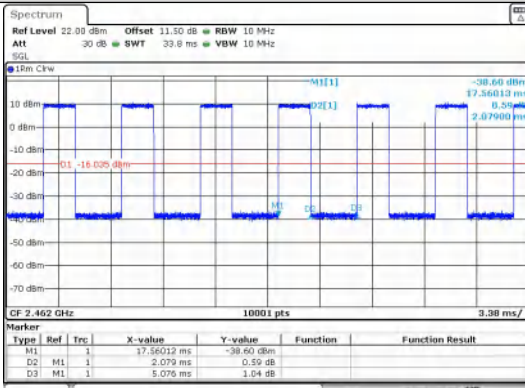
Date: 28-Nov-2025 22:01:24



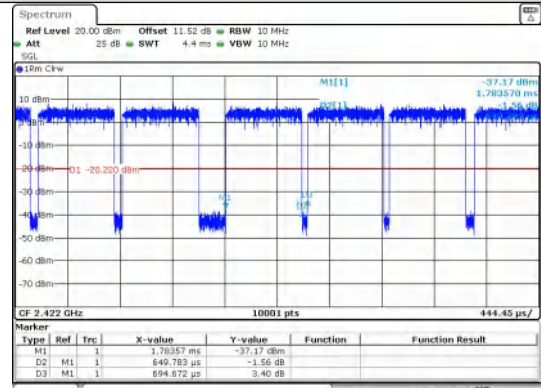
Date: 28-Nov-2025 22:02:14

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6



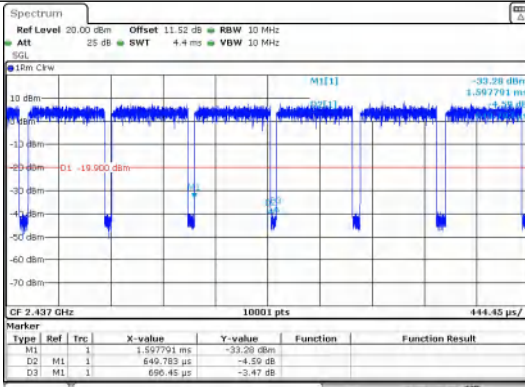
Date: 28-Nov-2025 22:02:59



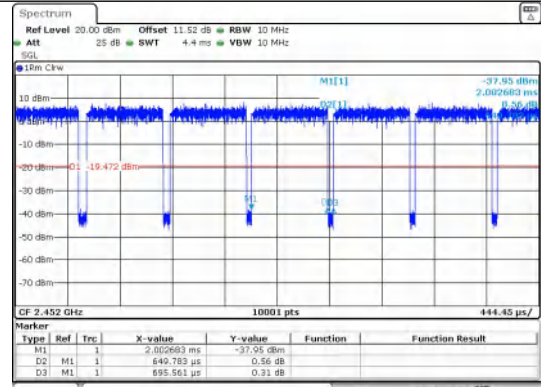
Date: 31-Nov-2025 19:19:24

IEEE 802.11n_20MHz_Channel 11

IEEE 802.11n_40MHz_Channel 3



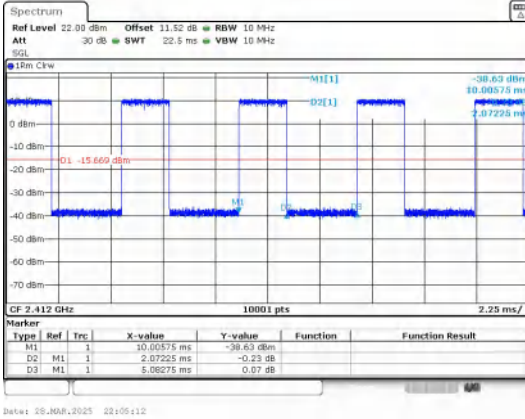
Date: 31-Nov-2025 19:23:04



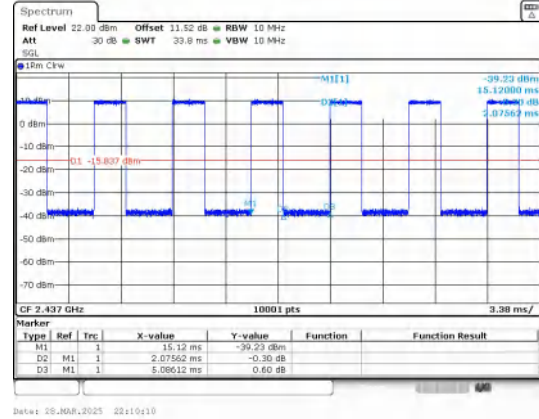
Date: 31-Nov-2025 19:29:03

IEEE 802.11n_40MHz_Channel 6

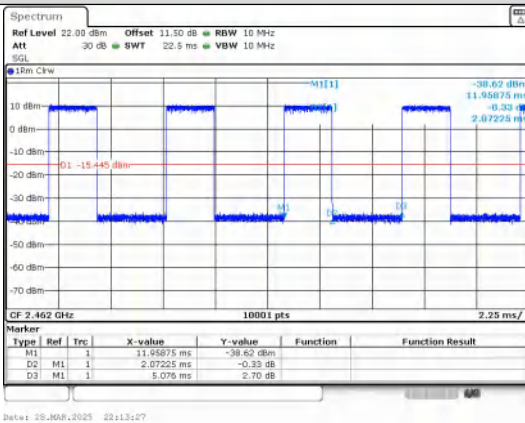
IEEE 802.11n_40MHz_Channel 9



IEEE 802.11ax_20MHz_Channel 1



IEEE 802.11ax_20MHz_Channel 6



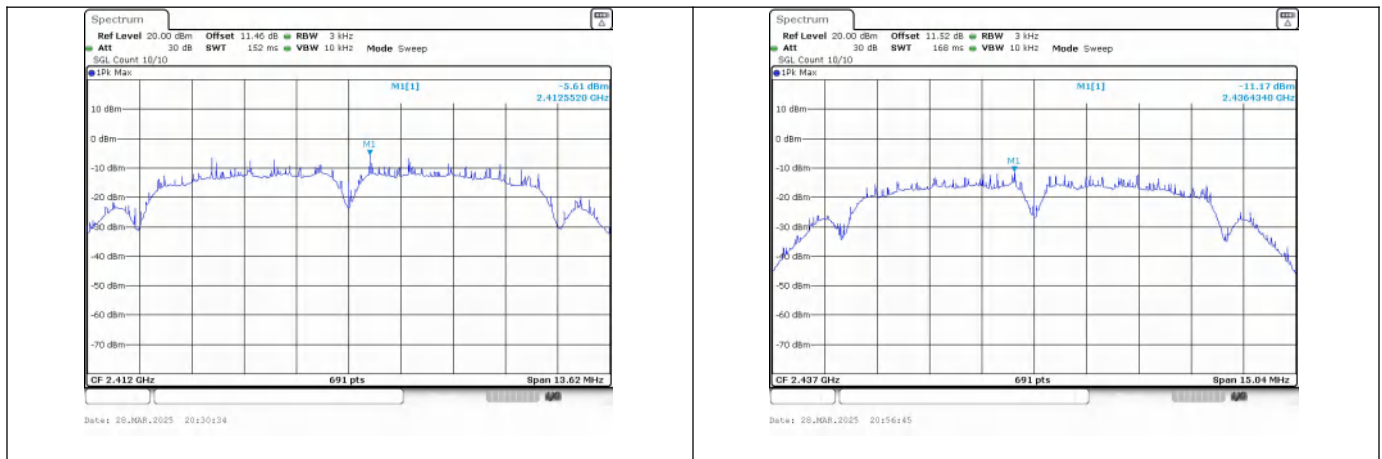
IEEE 802.11ax_20MHz_Channel 11

Power Spectral Density

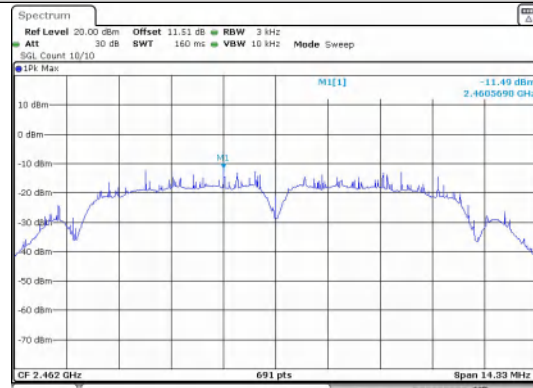
Test Result

Mode	Channel	RU & Index	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	N/A	-5.610	≤8	PASS
	6		-11.170		PASS
	11		-11.490		PASS
IEEE 802.11g	1		-18.290		PASS
	6		-15.950		PASS
	11		-18.160		PASS
IEEE 802.11n_20	1		-16.140		PASS
	6		-16.520		PASS
	11		-17.930		PASS
IEEE 802.11n_40	3		-20.680		PASS
	6		-20.000		PASS
	9		-20.370		PASS
IEEE 802.11ax_20	1	SU	-16.640		PASS
	6		-16.910		PASS
	11		-17.070		PASS

Test Graphs

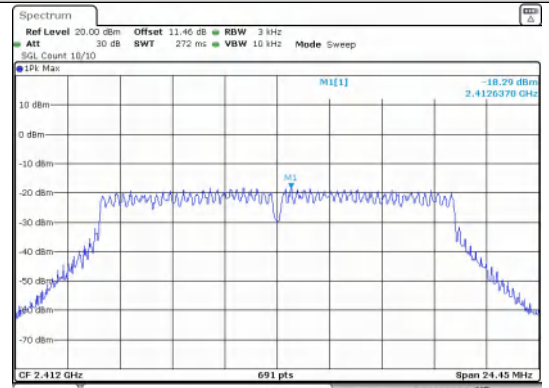


IEEE 802.11b_Channel 1_20MHz_Antenna 0



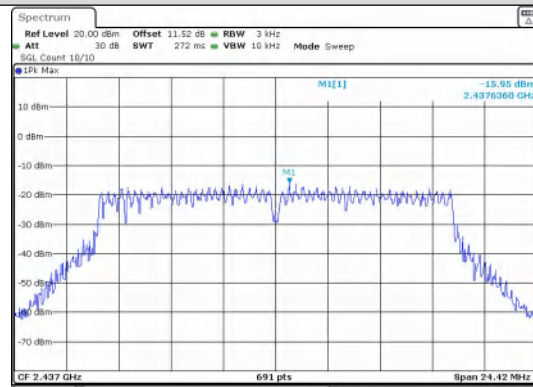
Date: 29_JAN, 2025 16:02:16

IEEE 802.11b_Channel 6_20MHz_Antenna 0



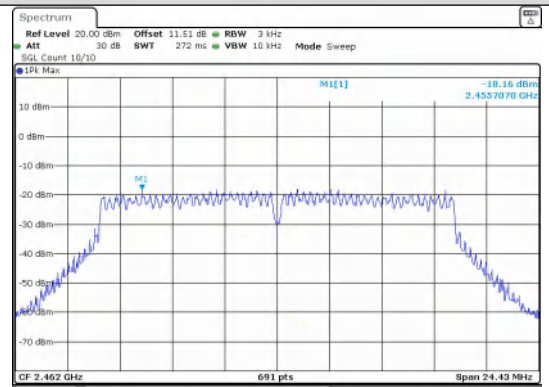
Date: 29_JAN, 2025 16:24:23

IEEE 802.11b_Channel 11_20MHz_Antenna 0



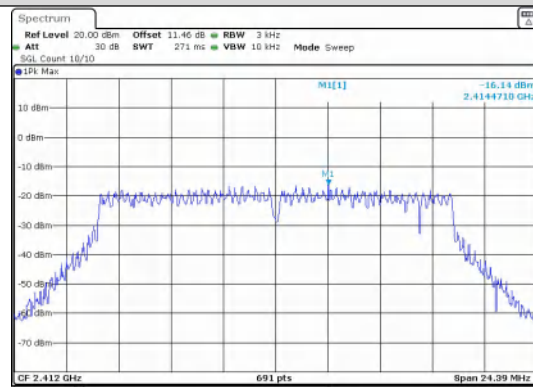
Date: 28_JAN, 2025 21:11:52

IEEE 802.11g_Channel 1_20MHz_Antenna 0



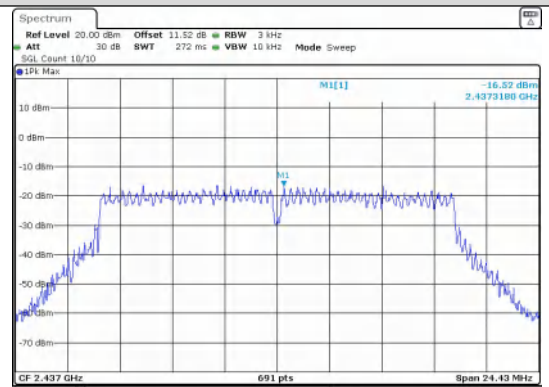
Date: 29_JAN, 2025 16:25:35

IEEE 802.11g_Channel 6_20MHz_Antenna 0



Date: 28_JAN, 2025 21:17:26

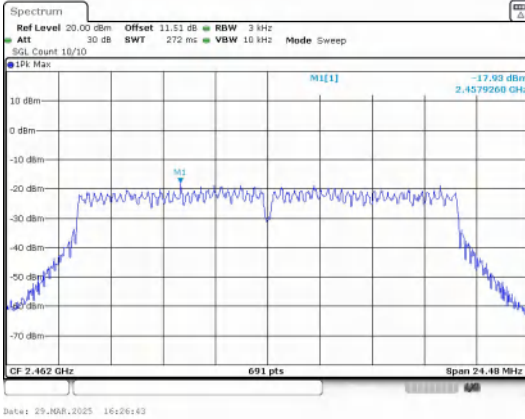
IEEE 802.11g_Channel 11_20MHz_Antenna 0



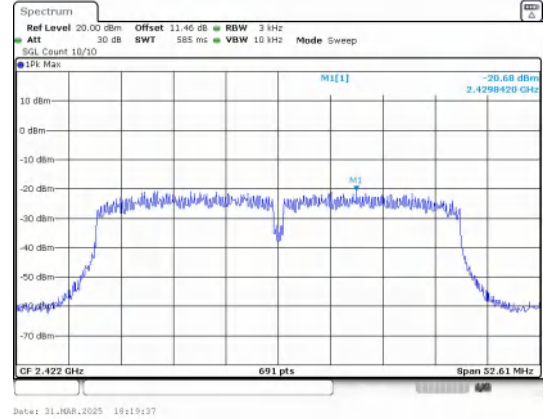
Date: 28_JAN, 2025 21:21:03

IEEE 802.11n_Channel 1_20MHz_Antenna 0

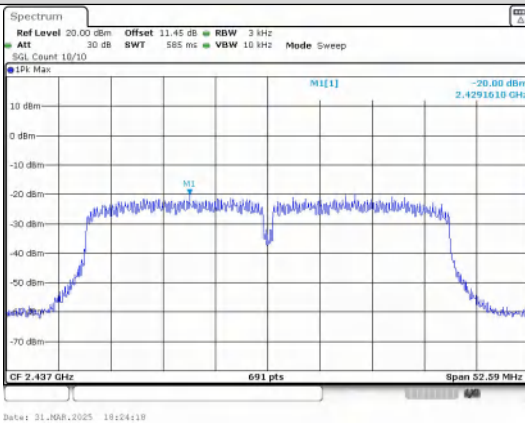
IEEE 802.11n_Channel 6_20MHz_Antenna 0



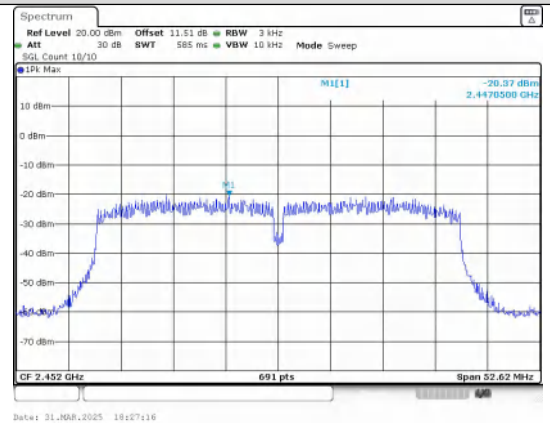
IEEE 802.11n_Channel 11_20MHz_Antenna 0



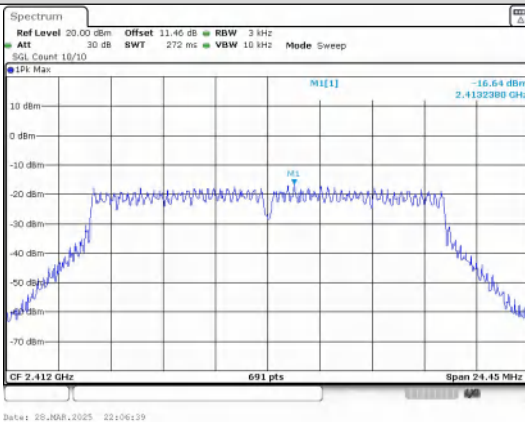
IEEE 802.11n_Channel 3_40MHz_Antenna 0



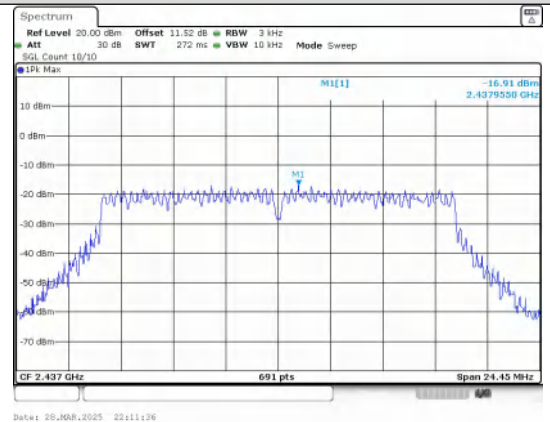
IEEE 802.11n_Channel 6_40MHz_Antenna 0



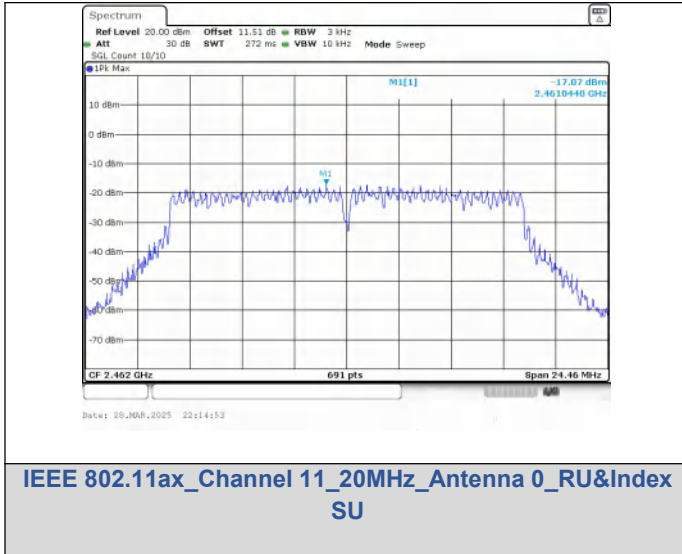
IEEE 802.11n_Channel 9_40MHz_Antenna 0



IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index
SU



IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index
SU



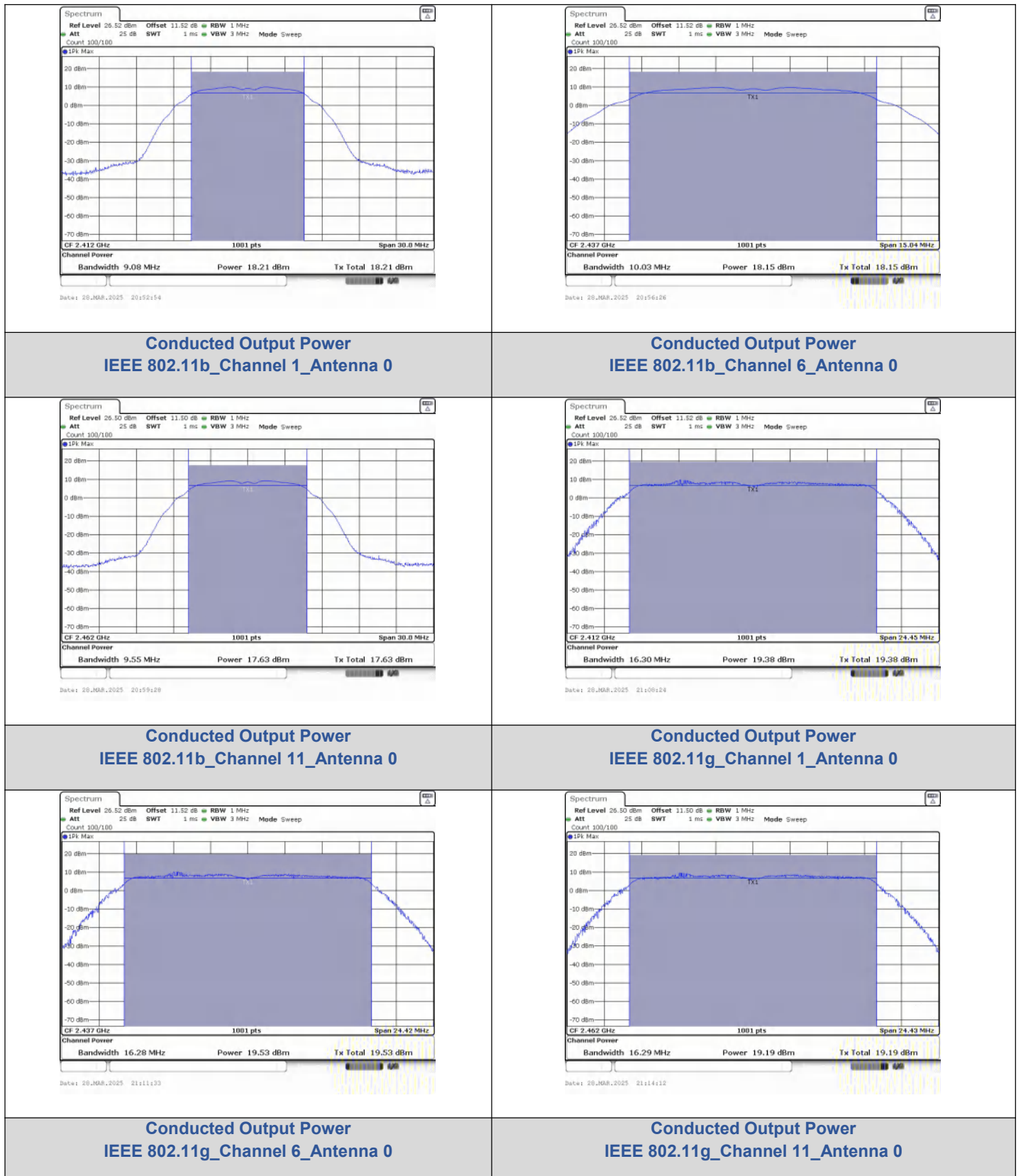
Conducted Output Power

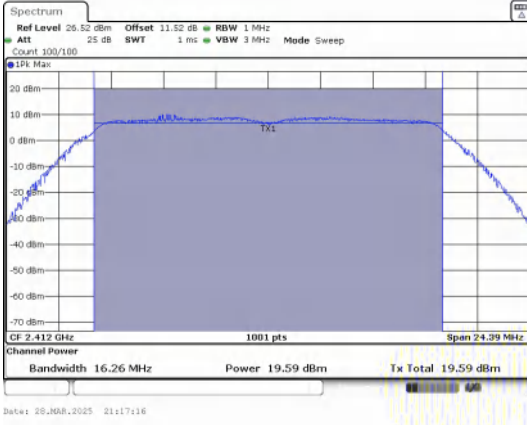
Test Result

Conducted Output Power

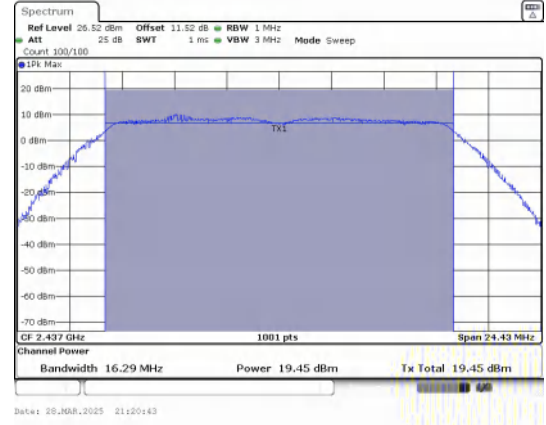
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	18.21	≤30	PASS
	6	18.15	≤30	PASS
	11	17.63	≤30	PASS
IEEE 802.11g	1	19.38	≤30	PASS
	6	19.53	≤30	PASS
	11	19.19	≤30	PASS
IEEE 802.11n_20	1	19.59	≤30	PASS
	6	19.45	≤30	PASS
	11	18.94	≤30	PASS
IEEE 802.11n_40	3	17.15	≤30	PASS
	6	17.07	≤30	PASS
	9	17.02	≤30	PASS
IEEE 802.11ax_20	1	19.16	≤30	PASS
	6	18.91	≤30	PASS
	11	18.80	≤30	PASS

Test Graphs

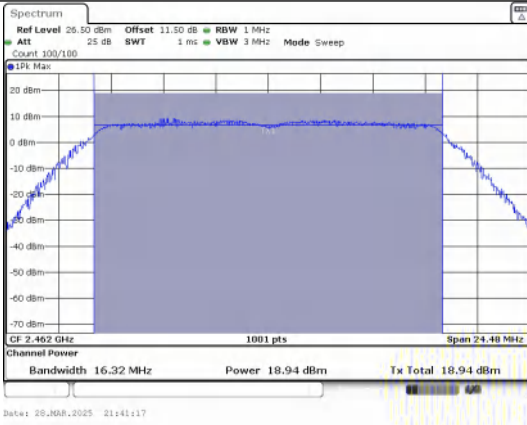




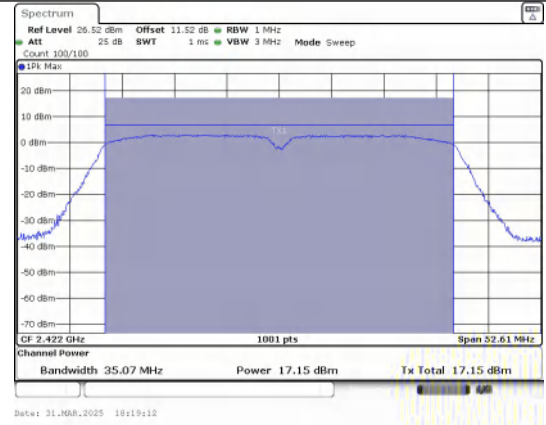
**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0**



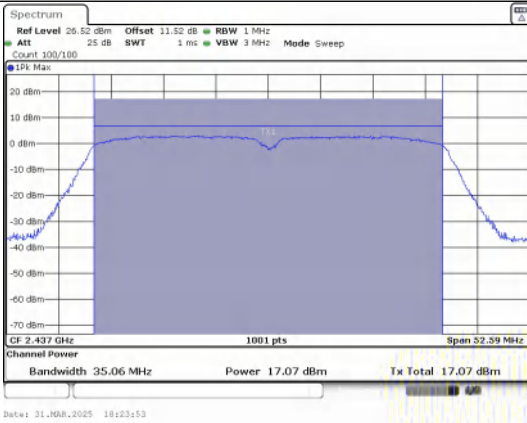
**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0**



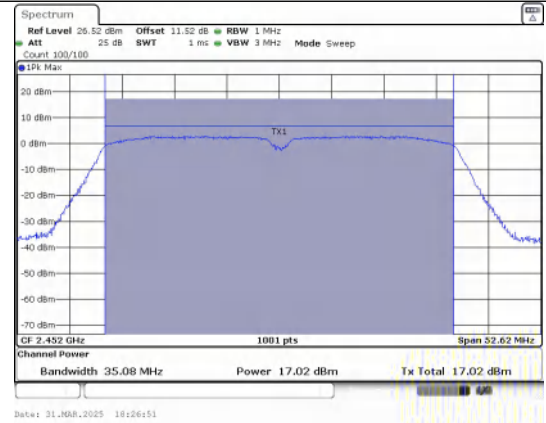
**Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0**



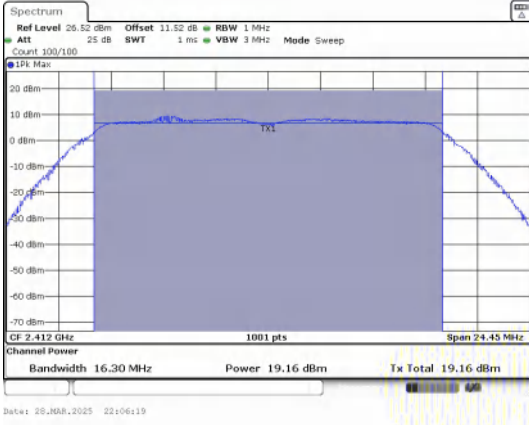
**Conducted Output Power
IEEE 802.11n_40_Channel 3_Antenna 0**



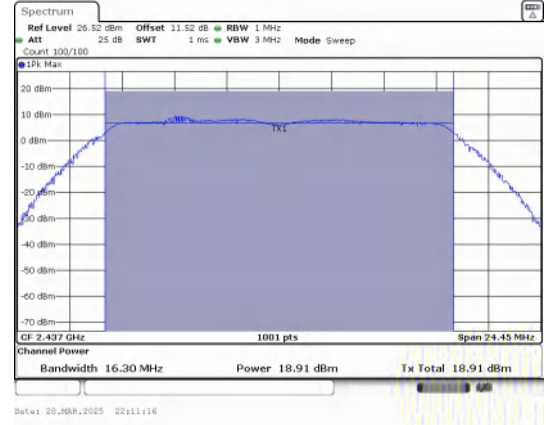
**Conducted Output Power
IEEE 802.11n_40_Channel 6_Antenna 0**



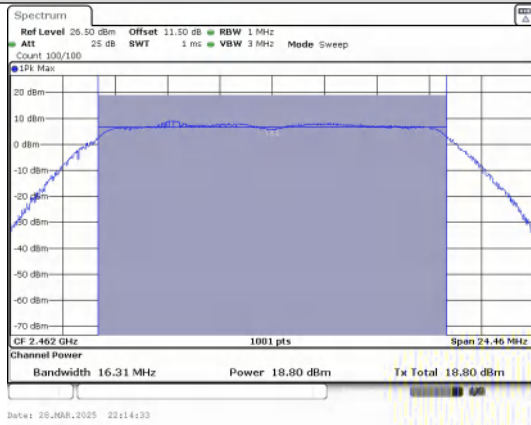
**Conducted Output Power
IEEE 802.11n_40_Channel 9_Antenna 0**



Conducted Output Power
IEEE 802.11ax_20_Channel 1_Antenna 0_RU&Index SU



Conducted Output Power
IEEE 802.11ax_20_Channel 6_Antenna 0_RU&Index SU



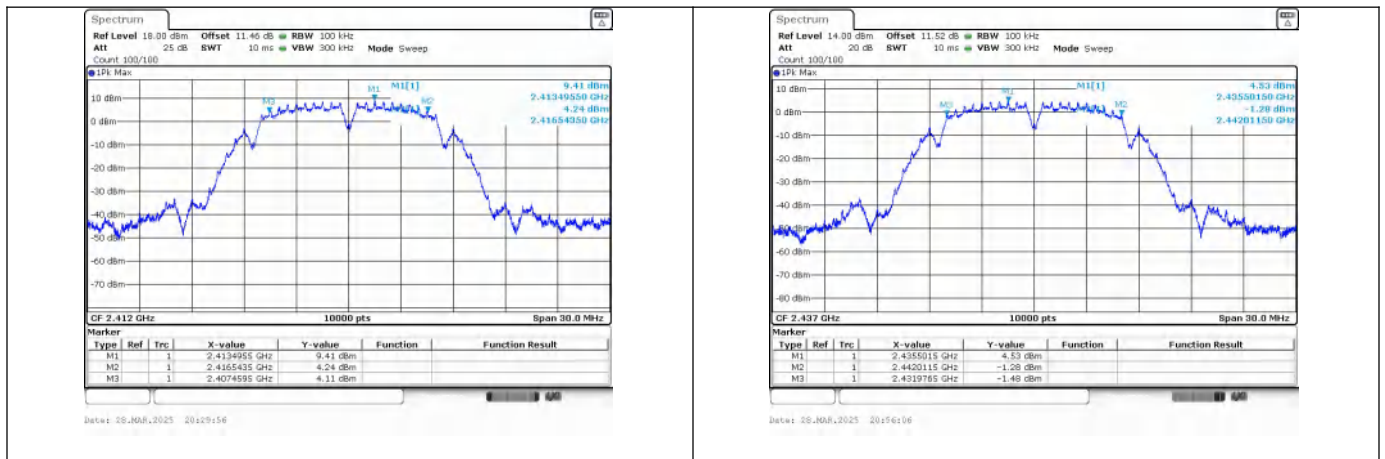
Conducted Output Power
IEEE 802.11ax_20_Channel 11_Antenna 0_RU&Index SU

6dB Bandwidth

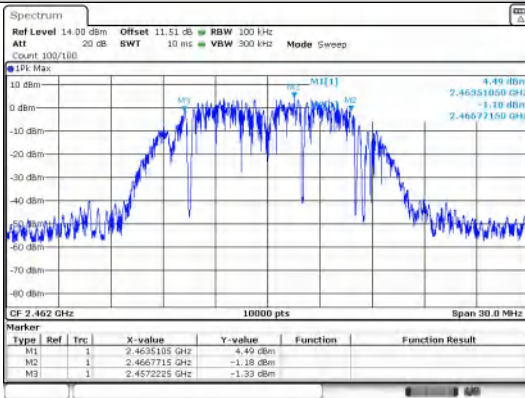
Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	9.080	≥0.5	PASS
	6			2437	10.03		PASS
	11			2462	9.550		PASS
IEEE 802.11g	1			2412	16.30		PASS
	6			2437	16.28		PASS
	11			2462	16.29		PASS
IEEE 802.11n_20	1			2412	16.26		PASS
	6			2437	16.29		PASS
	11			2462	16.32		PASS
IEEE 802.11n_40	3			2422	35.07		PASS
	6			2437	35.06		PASS
	9			2452	35.08		PASS
IEEE 802.11ax_20	1	SU		2412	16.30		PASS
	6			2437	16.30		PASS
	11			2462	16.31		PASS

Test Graphs

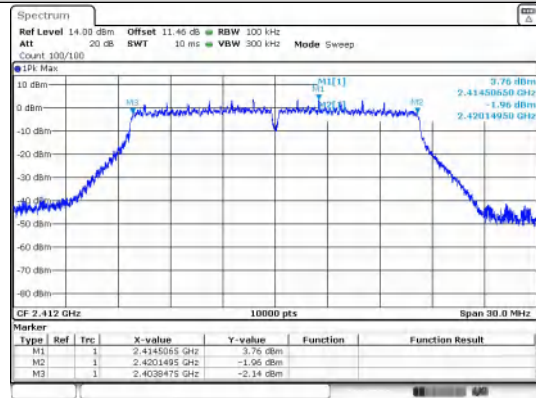


IEEE 802.11b_Channel 1_20MHz_Antenna 0



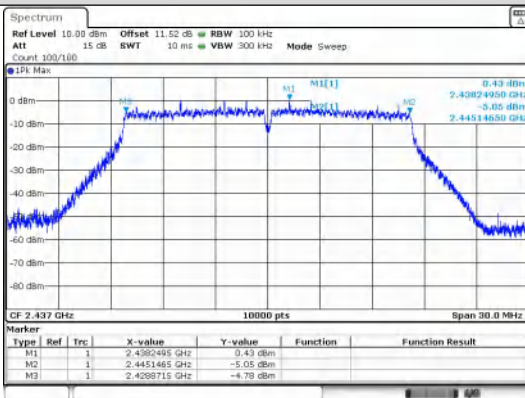
Date: 28.JAN.2025 20:59:09

IEEE 802.11b_Channel 6_20MHz_Antenna 0



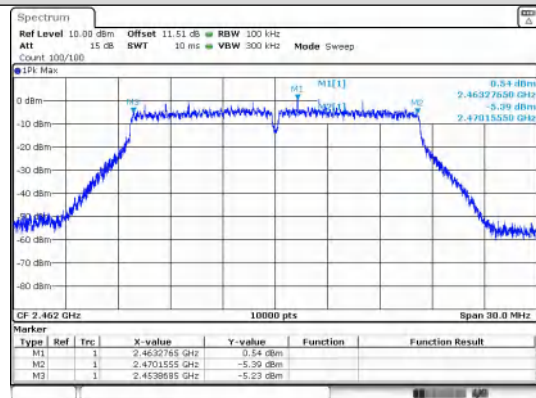
Date: 28.JAN.2025 21:04:58

IEEE 802.11b_Channel 11_20MHz_Antenna 0



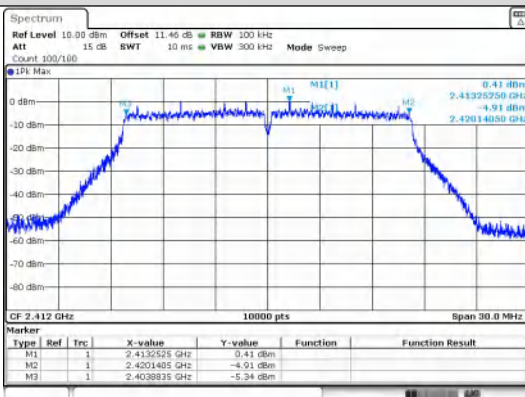
Date: 28.JAN.2025 21:11:13

IEEE 802.11g_Channel 1_20MHz_Antenna 0



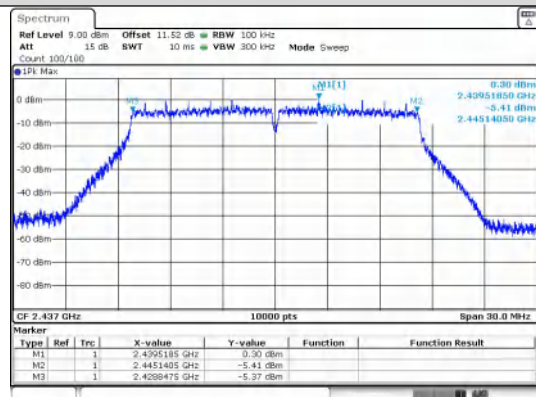
Date: 28.JAN.2025 21:13:52

IEEE 802.11g_Channel 6_20MHz_Antenna 0



Date: 28.JAN.2025 21:16:56

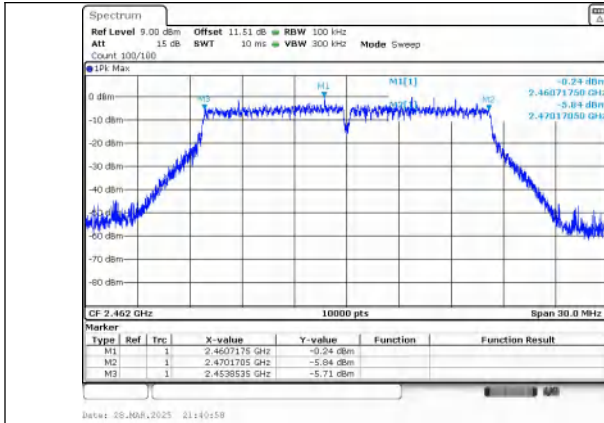
IEEE 802.11g_Channel 11_20MHz_Antenna 0



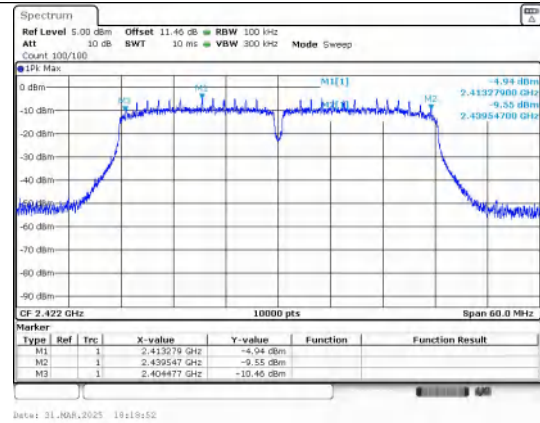
Date: 28.JAN.2025 21:20:23

IEEE 802.11n_Channel 1_20MHz_Antenna 0

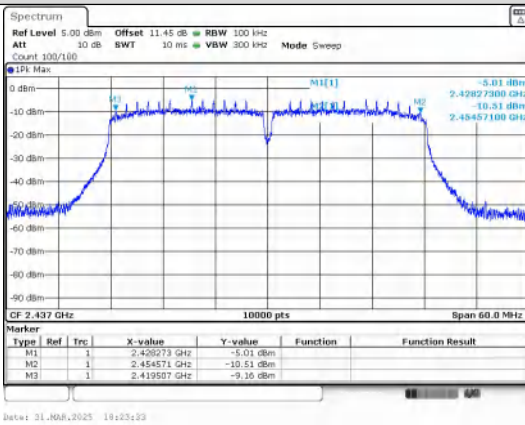
IEEE 802.11n_Channel 6_20MHz_Antenna 0



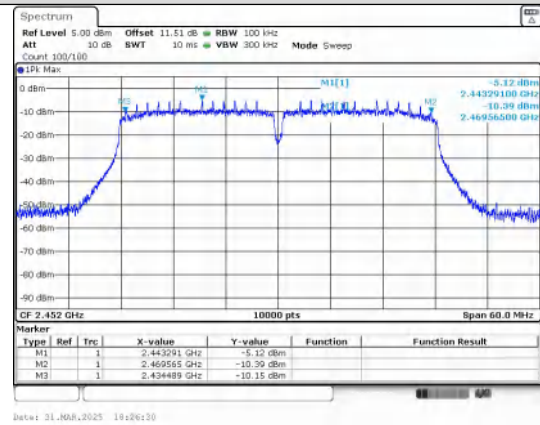
IEEE 802.11n_Channel 11_20MHz_Antenna 0



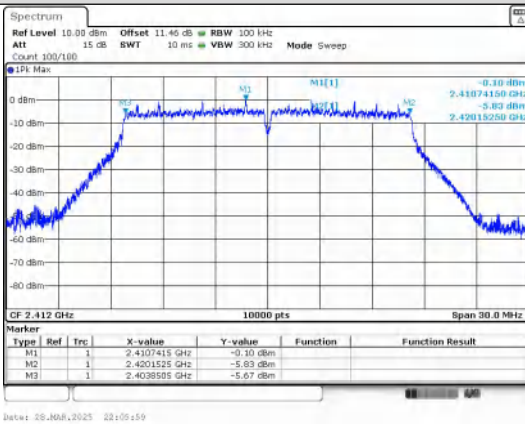
IEEE 802.11n_Channel 3_40MHz_Antenna 0



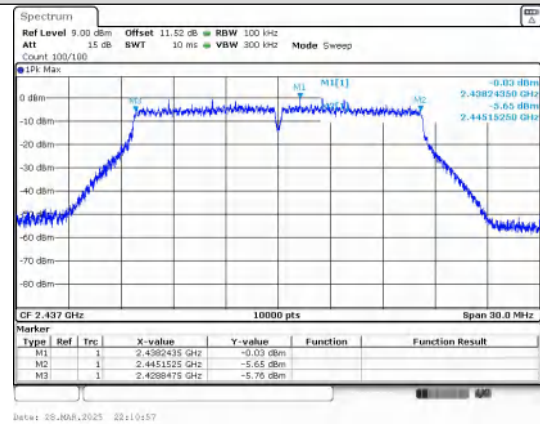
IEEE 802.11n_Channel 6_40MHz_Antenna 0



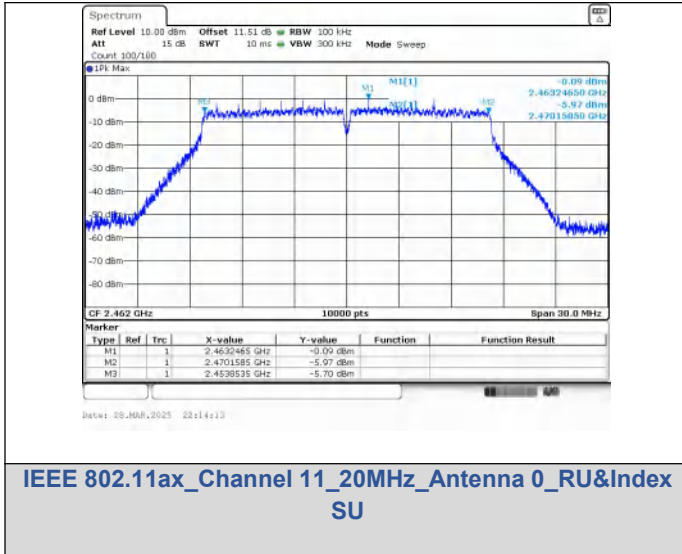
IEEE 802.11n_Channel 9_40MHz_Antenna 0



IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



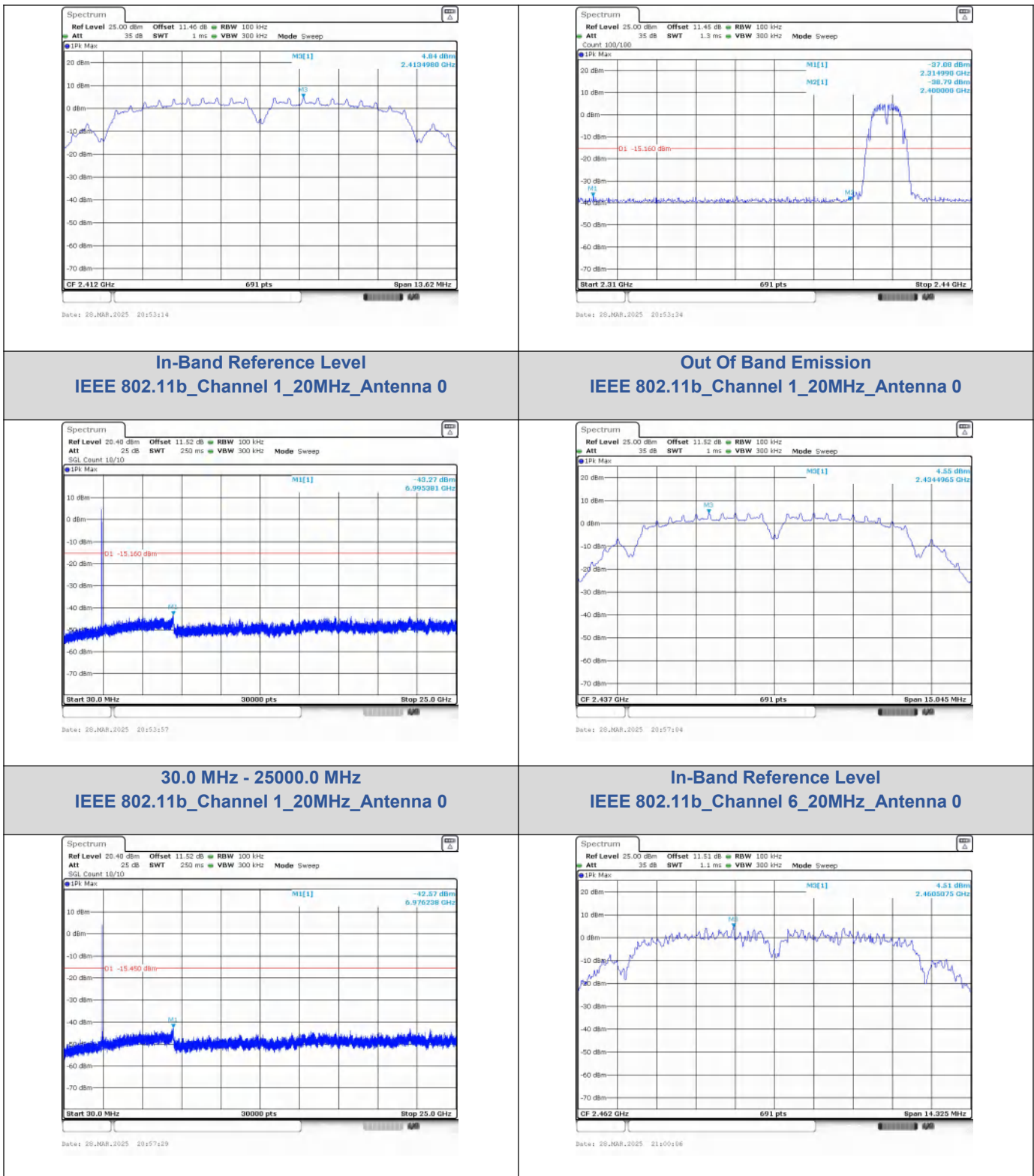
Conducted Out Of Band Emission

Test Result

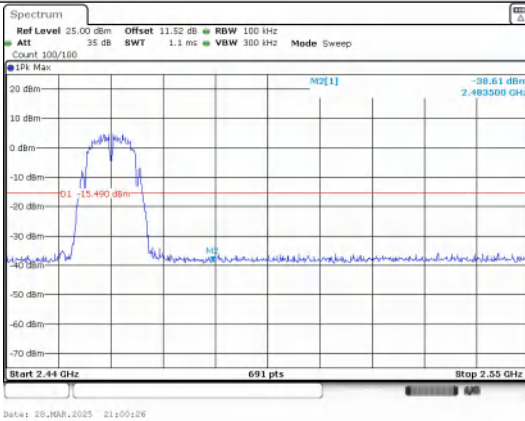
Mode	Channel	RU & Index	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	N/A	0	2314.99	-37.084	-15.16	-21.924	PASS
				2400.00	-38.790	-15.16	-23.630	PASS
				6995.40	-43.270	-15.16	-28.110	PASS
	6			6976.24	-42.565	-15.45	-27.115	PASS
	11			2483.50	-38.610	-15.49	-23.120	PASS
				20635.7	-43.618	-15.49	-28.128	PASS
IEEE 802.11g	1			2350.17	-36.732	-21.55	-15.182	PASS
				2400.00	-38.170	-21.55	-16.620	PASS
				6305.40	-43.904	-21.55	-22.354	PASS
	6			23329.9	-43.603	-19.82	-23.783	PASS
	11			2483.50	-37.950	-20.55	-17.400	PASS
				6906.32	-42.740	-20.55	-22.190	PASS
IEEE 802.11n_20	1			2324.20	-36.488	-19.49	-16.998	PASS
				2400.00	-38.950	-19.49	-19.460	PASS
				21989.9	-43.271	-19.49	-23.781	PASS
	6			6908.82	-42.967	-20.24	-22.727	PASS
	11			2483.50	-37.080	-20.47	-16.610	PASS
				6322.86	-42.567	-20.47	-22.097	PASS
IEEE 802.11n_40	3			2367.29	-36.545	-24.76	-11.785	PASS
				2400.00	-38.460	-24.76	-13.700	PASS
				22073.9	-42.859	-24.76	-18.099	PASS
	6			6181.36	-42.435	-24.51	-17.925	PASS
	9			2483.50	-36.670	-24.99	-11.680	PASS
				22079.8	-43.009	-24.99	-18.019	PASS

IEEE 802.11ax_20	1	SU		2382.15	-37.168	-20.74	-16.428	PASS
				2400.00	-37.420	-20.74	-16.680	PASS
				6946.30	-43.253	-20.74	-22.513	PASS
	6			6976.24	-43.044	-20.39	-22.654	PASS
	11			2483.50	-38.320	-20.38	-17.940	PASS
				6996.21	-42.505	-20.38	-22.125	PASS

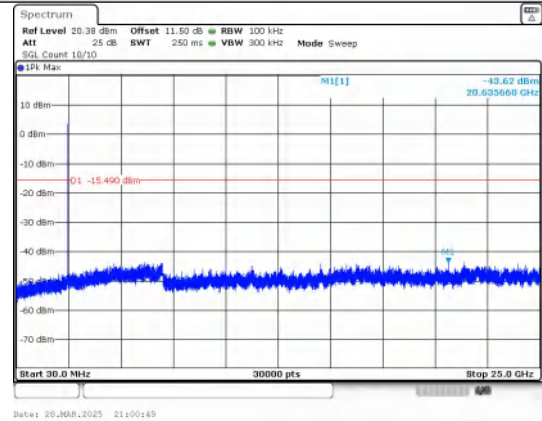
Test Graphs



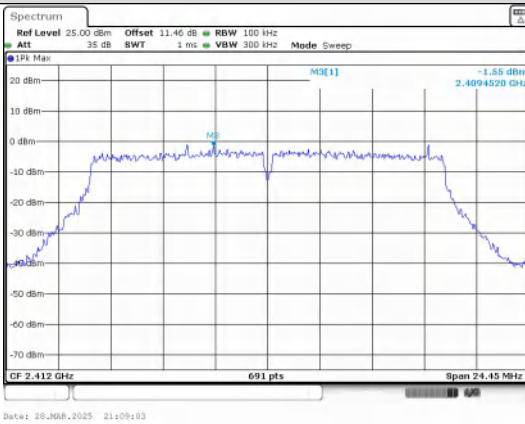
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



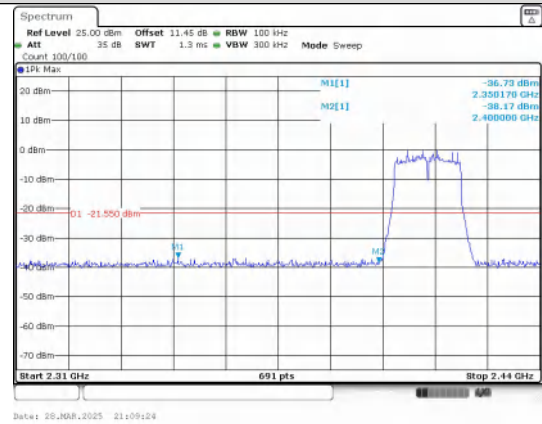
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



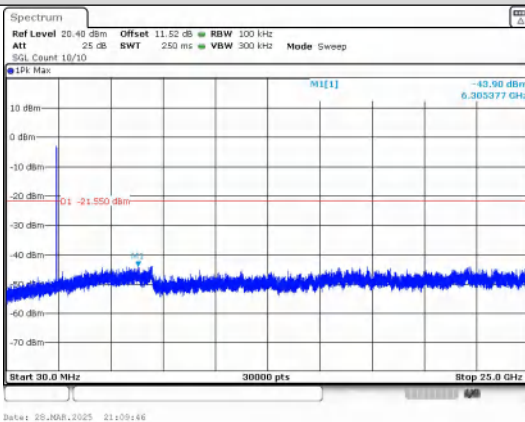
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



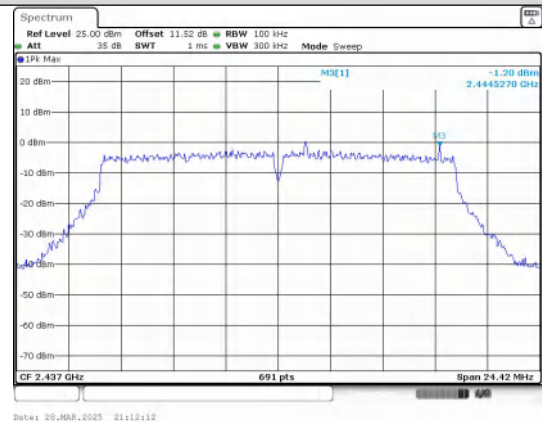
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



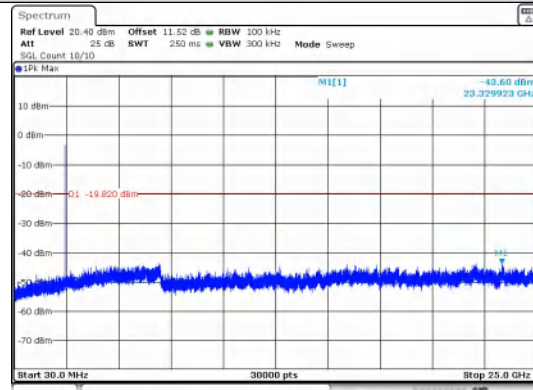
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz

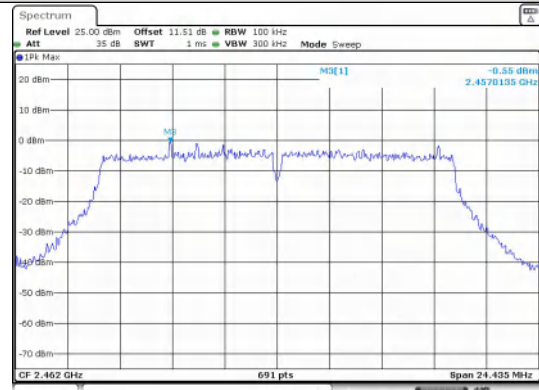
In-Band Reference Level

IEEE 802.11g_Channel 1_20MHz_Antenna 0



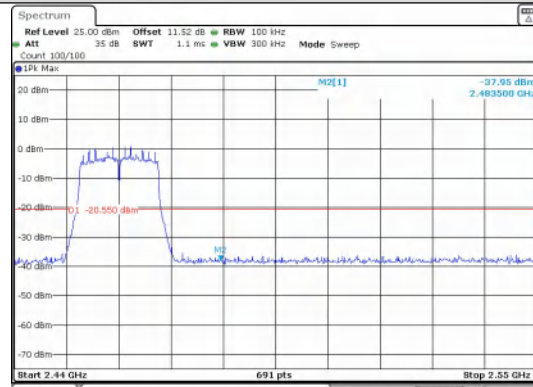
Date: 28_JAN_2025 21:12:17

IEEE 802.11g_Channel 6_20MHz_Antenna 0



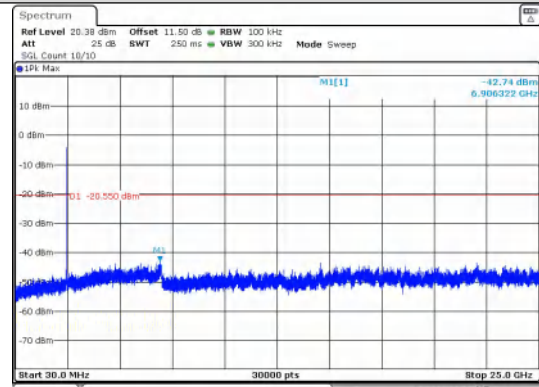
Date: 28_JAN_2025 21:14:51

30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 6_20MHz_Antenna 0



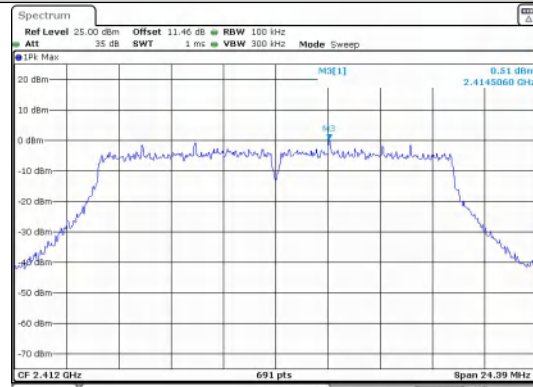
Date: 28_JAN_2025 21:15:11

In-Band Reference Level IEEE 802.11g_Channel 11_20MHz_Antenna 0



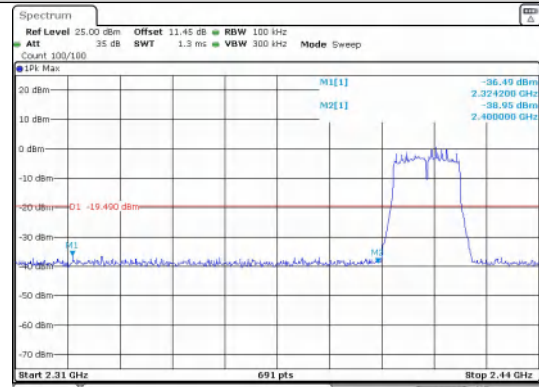
Date: 28_JAN_2025 21:15:34

Out Of Band Emission IEEE 802.11g_Channel 11_20MHz_Antenna 0



Date: 28_JAN_2025 21:17:55

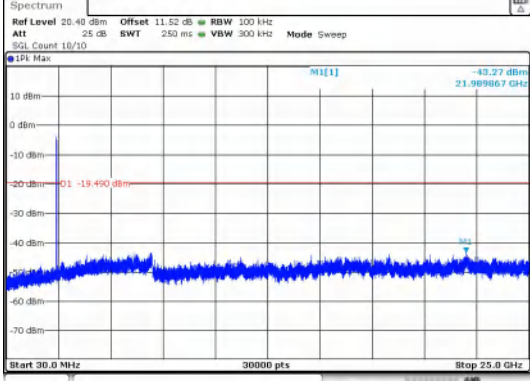
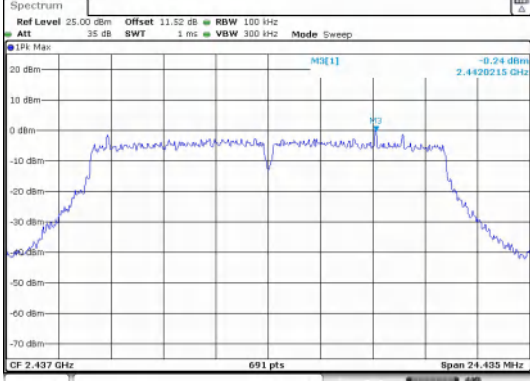
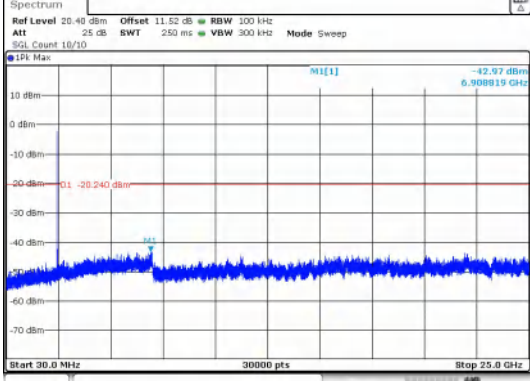
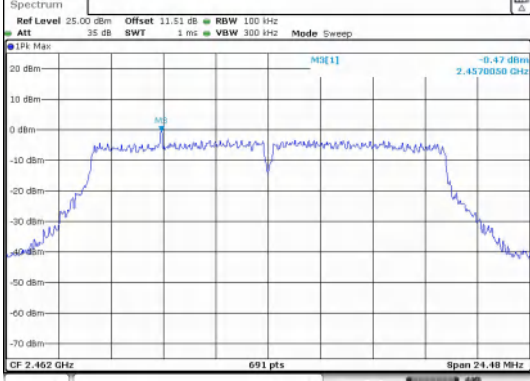
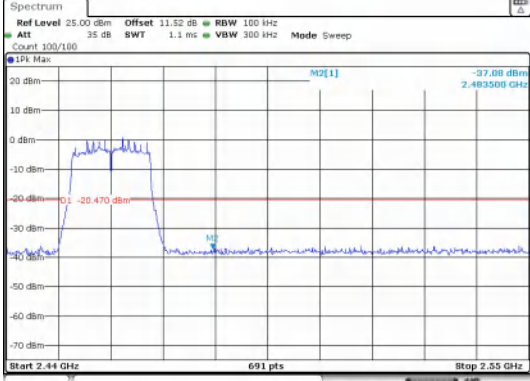
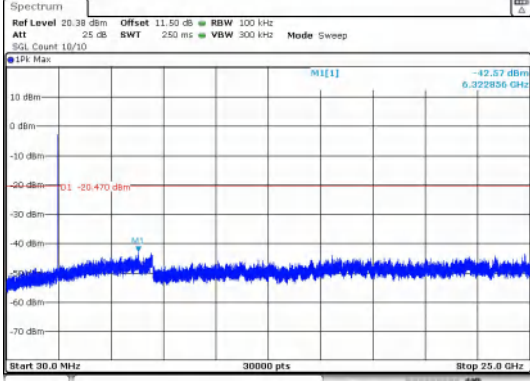
30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 11_20MHz_Antenna 0

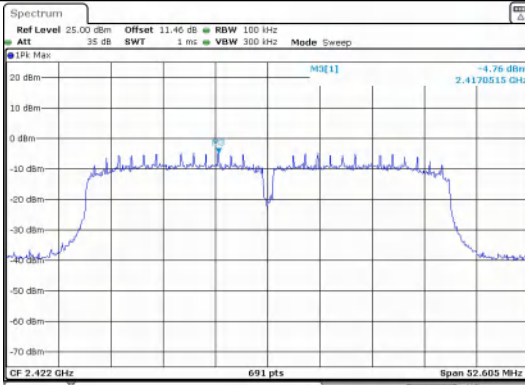


Date: 28_JAN_2025 21:18:15

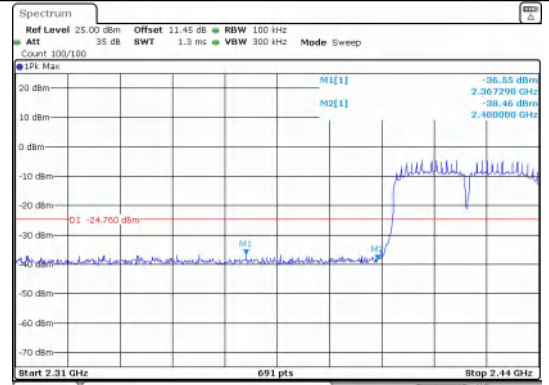
In-Band Reference Level IEEE 802.11n_Channel 1_20MHz_Antenna 0

Out Of Band Emission IEEE 802.11n_Channel 1_20MHz_Antenna 0

 Ref Level 20.40 dBm Offset 11.52 dB RBW 100 kHz Att 25 dB SWT 250 ms VBW 300 kHz Mode Sweep SQL Count 16/10 1PK Max -43.27 dBm 21.989867 GHz Start 30.0 MHz 30000 pts Stop 25.0 GHz Date: 20/MAR/2025 21:19:29	 Ref Level 25.00 dBm Offset 11.52 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep 1PK Max -0.24 dBm 2.4429215 GHz CF 2.437 GHz 691 pts Span 24.435 MHz Date: 20/MAR/2025 21:21:23
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
 Ref Level 20.40 dBm Offset 11.52 dB RBW 100 kHz Att 25 dB SWT 250 ms VBW 300 kHz Mode Sweep SQL Count 16/10 1PK Max -42.97 dBm 6.908819 GHz Start 30.0 MHz 30000 pts Stop 25.0 GHz Date: 20/MAR/2025 21:21:49	 Ref Level 25.00 dBm Offset 11.51 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep 1PK Max -6.47 dBm 2.4570050 GHz CF 2.462 GHz 691 pts Span 24.48 MHz Date: 20/MAR/2025 21:41:56
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
 Ref Level 25.00 dBm Offset 11.52 dB RBW 100 kHz Att 35 dB SWT 1.1 ms VBW 300 kHz Mode Sweep Count 100/100 1PK Max -37.08 dBm 2.483506 GHz Start 2.44 GHz 691 pts Stop 2.55 GHz Date: 20/MAR/2025 21:42:16	 Ref Level 20.38 dBm Offset 11.50 dB RBW 100 kHz Att 25 dB SWT 250 ms VBW 300 kHz Mode Sweep SQL Count 16/10 1PK Max -42.57 dBm 6.322856 GHz Start 30.0 MHz 30000 pts Stop 25.0 GHz Date: 20/MAR/2025 21:42:39
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



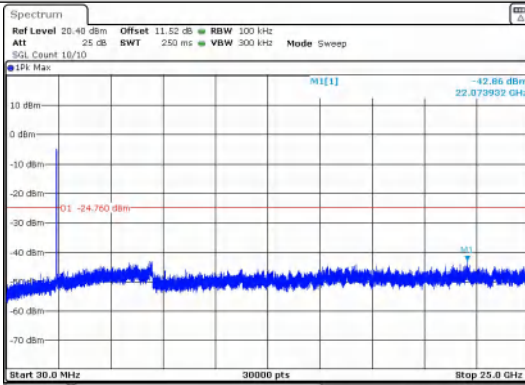
Date: 31_MAR_2025 18:19:57



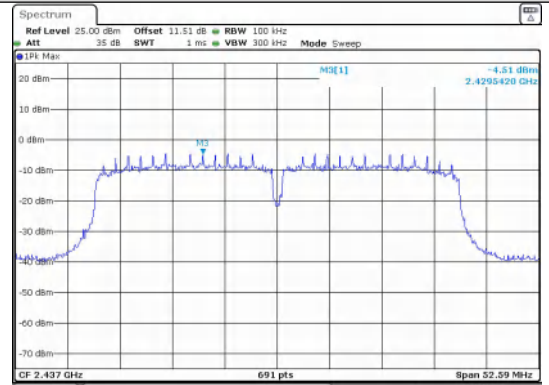
Date: 31_MAR_2025 18:20:10

In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0

Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



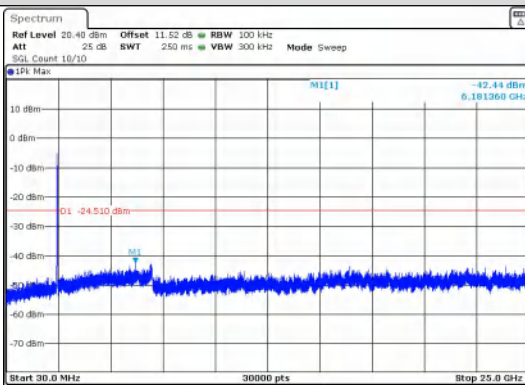
Date: 31_MAR_2025 18:20:40



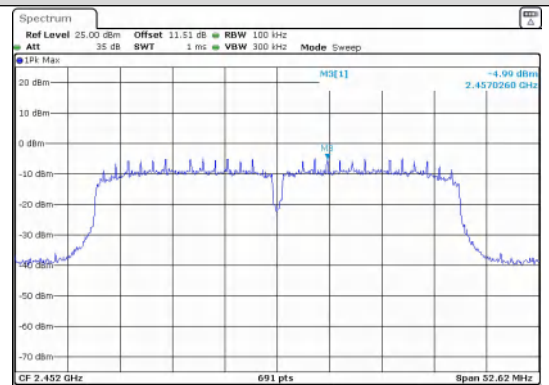
Date: 31_MAR_2025 18:24:38

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



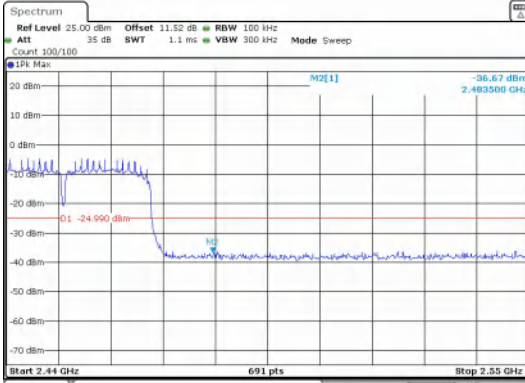
Date: 31_MAR_2025 18:25:03



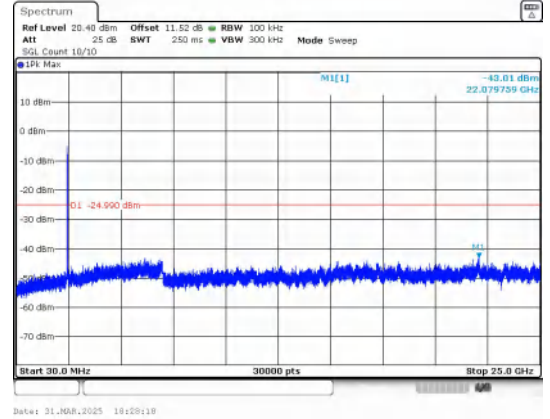
Date: 31_MAR_2025 18:27:26

30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0

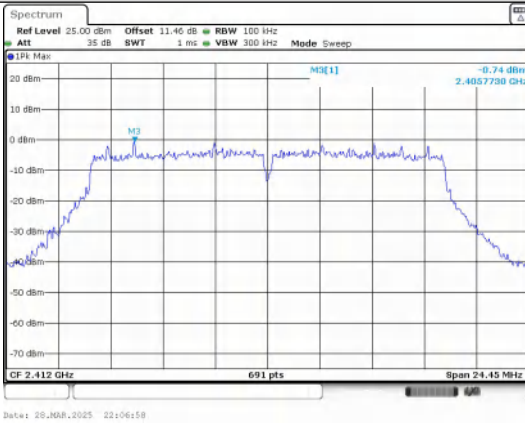
In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



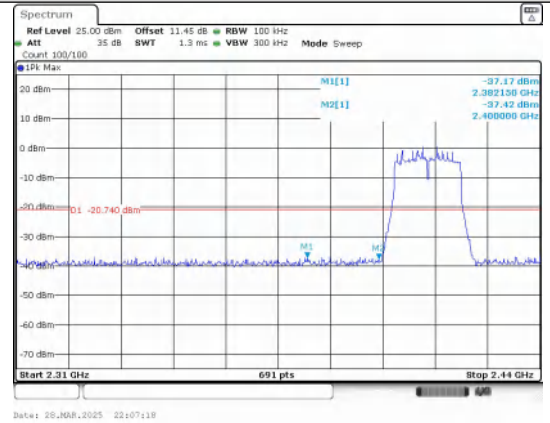
Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0



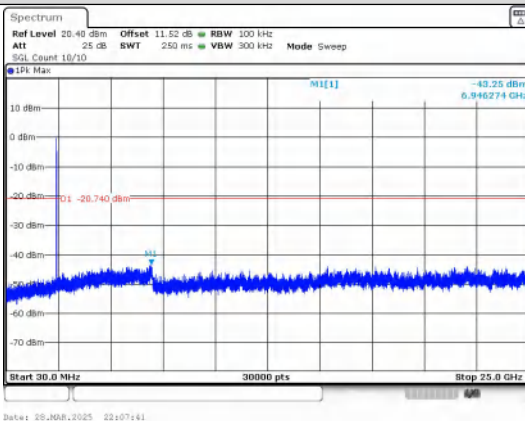
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 9_40MHz_Antenna 0



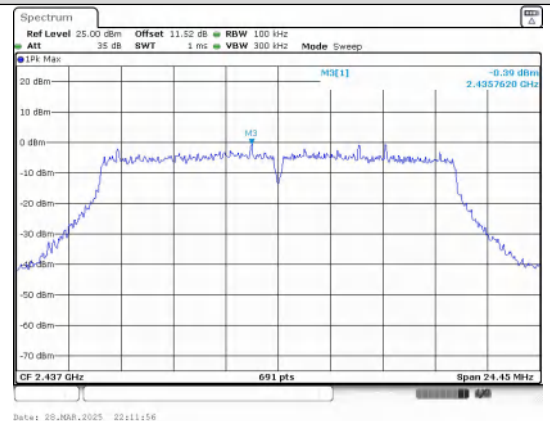
In-Band Reference Level
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



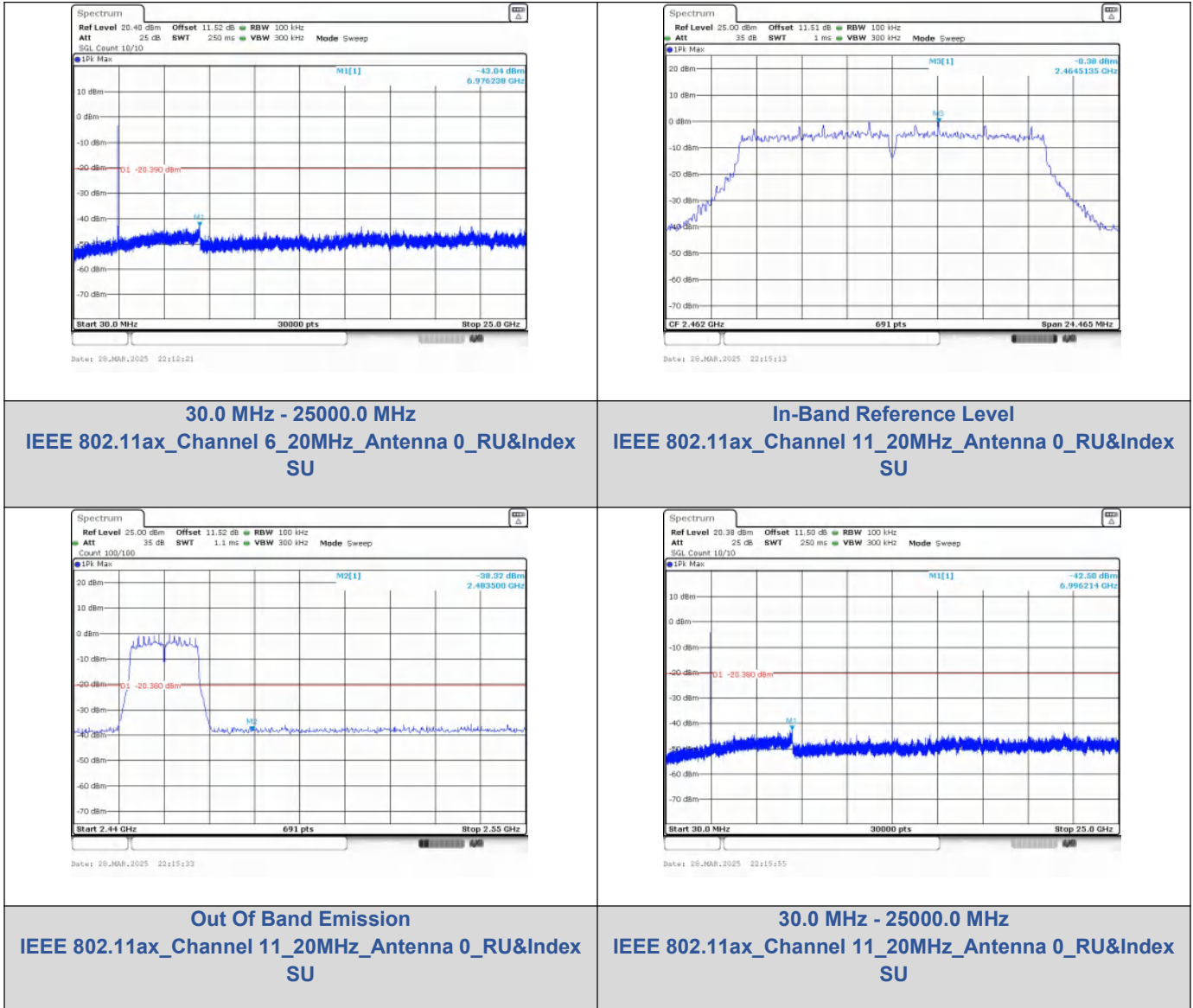
Out Of Band Emission
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



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



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