Appendix A

Report No.:	CISRR24013016501
FCC ID:	2BE3U-C6
Product Name:	Encoder
Model No.:	C6
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

Conducted Peak Output Power

Test Result

Conducted peak output power

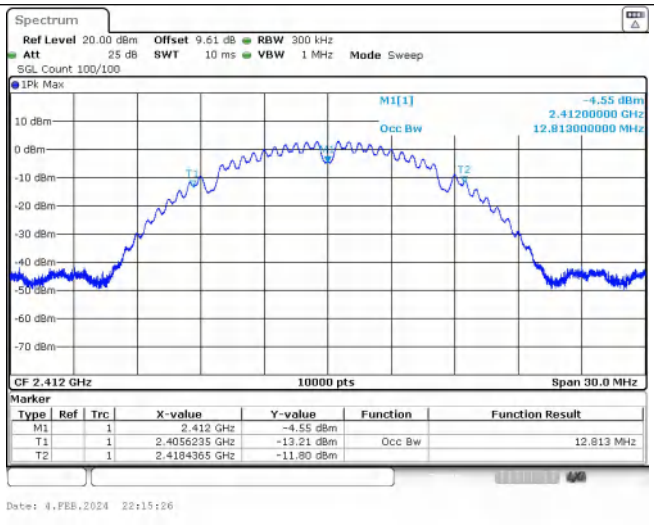
Mode	Channel	RU & Index	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	N/A	13.15	30	PASS
	6		12.80	30	PASS
	11		11.05	30	PASS
IEEE 802.11g	1		11.20	30	PASS
	6		11.57	30	PASS
	11		11.06	30	PASS
IEEE 802.11n_20	1		10.51	30	PASS
	6		10.66	30	PASS
	11		10.20	30	PASS
IEEE 802.11n_40	3		10.73	30	PASS
	6		11.03	30	PASS
	9		10.71	30	PASS
IEEE 802.11ax_20	1	SU	12.97	30	PASS
	6		14.20	30	PASS
	11		12.90	30	PASS
IEEE 802.11ax_40	3		14.07	30	PASS
	6		13.95	30	PASS
	9		13.54	30	PASS

99% Bandwidth

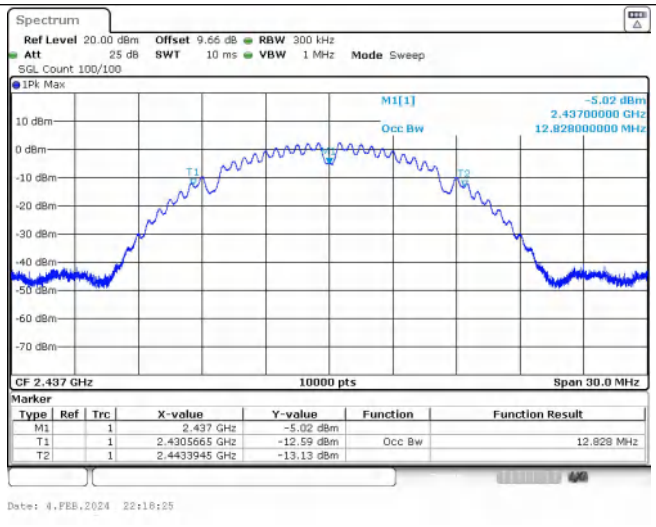
Test Result

Mode	Channel	RU & Index	Ant.	99% BW (MHz)
IEEE 802.11b	1	N/A	0	12.810
	6			12.830
	11			12.810
IEEE 802.11g	1			16.870
	6			16.850
	11			16.840
IEEE 802.11n_20	1			17.890
	6			17.970
	11			17.970
IEEE 802.11n_40	3			36.230
	6			36.340
	9			36.370
IEEE 802.11ax_20	1	SU		16.840
	6			16.810
	11			16.800
IEEE 802.11ax_40	3			36.910
	6			37.940
	9			37.720

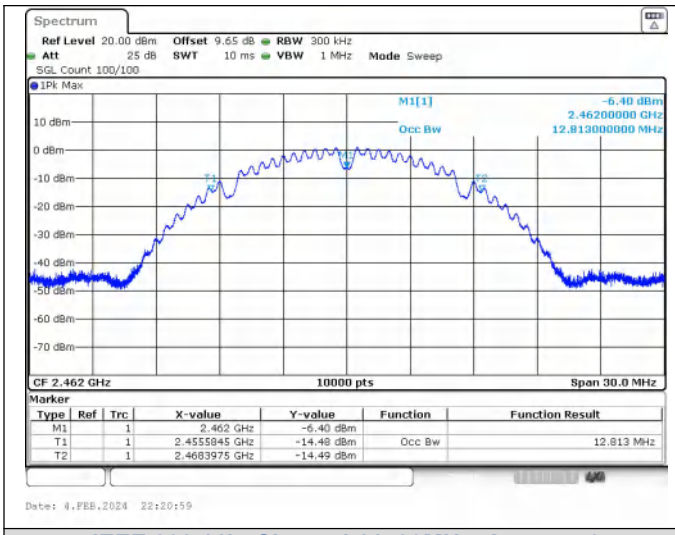
Test Graphs



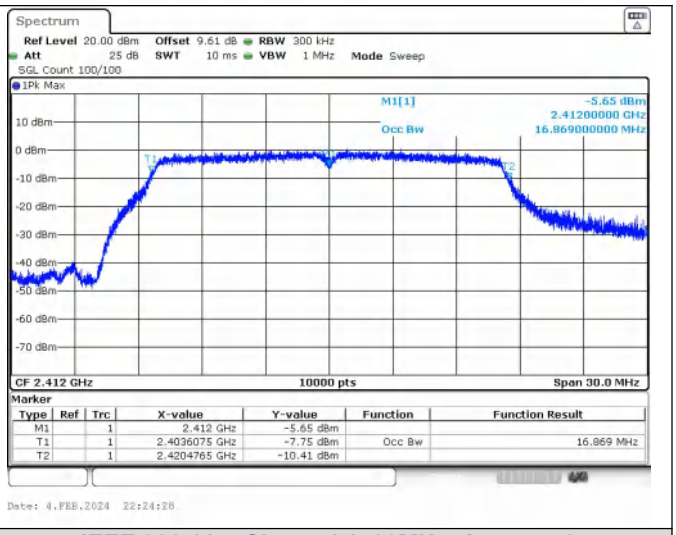
IEEE 802.11b_Channel 1_20MHz_Antenna 0



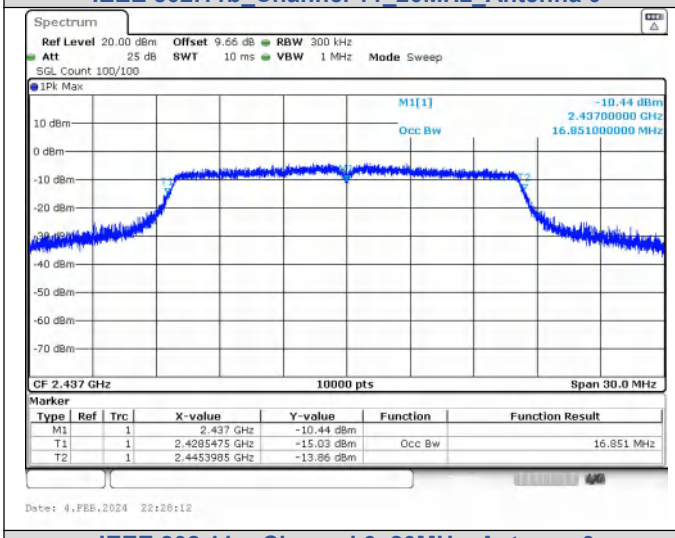
IEEE 802.11b_Channel 6_20MHz_Antenna 0



IEEE 802.11b_Channel 11_20MHz_Antenna 0



IEEE 802.11g_Channel 1_20MHz_Antenna 0



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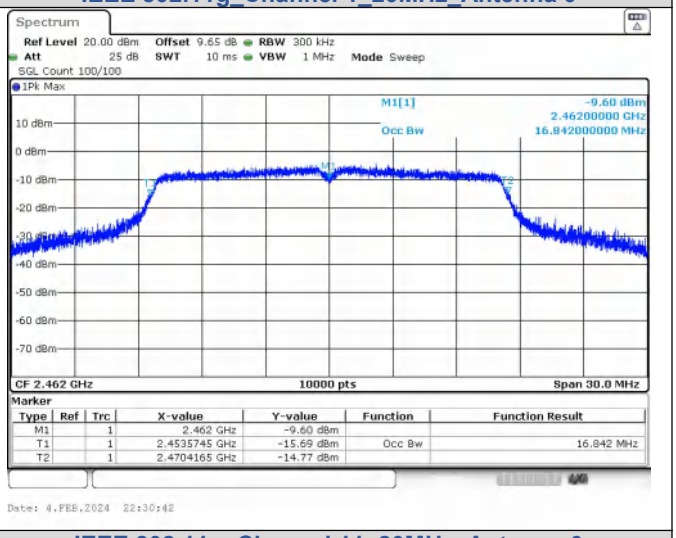
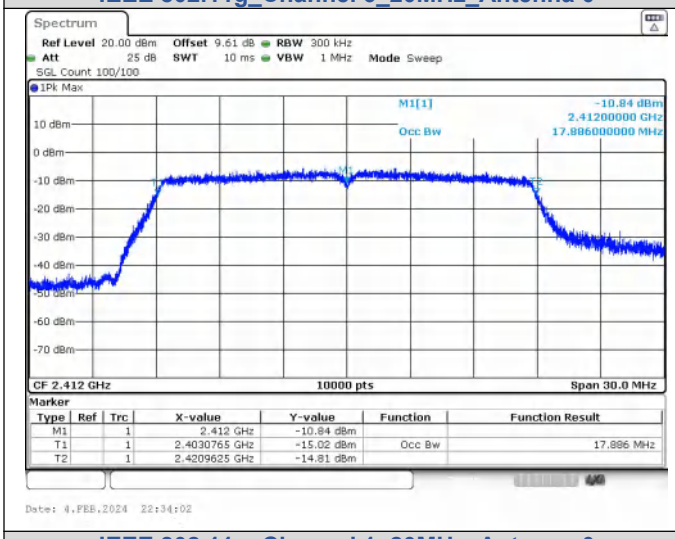
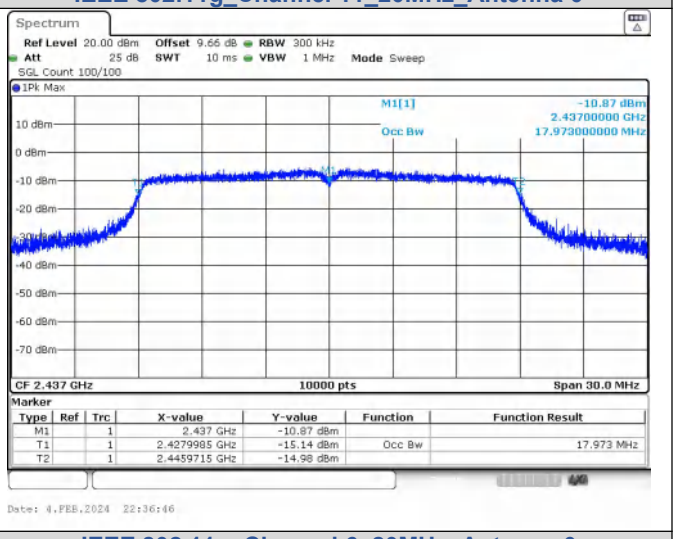


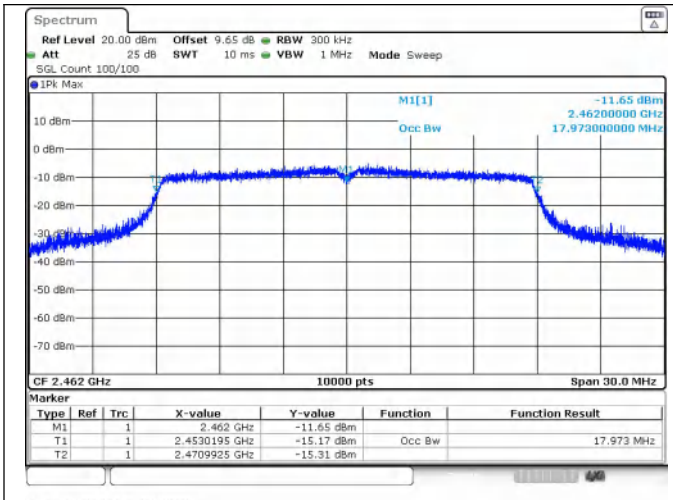
IEEE 802.11g_Channel 11_20MHz_Antenna 0



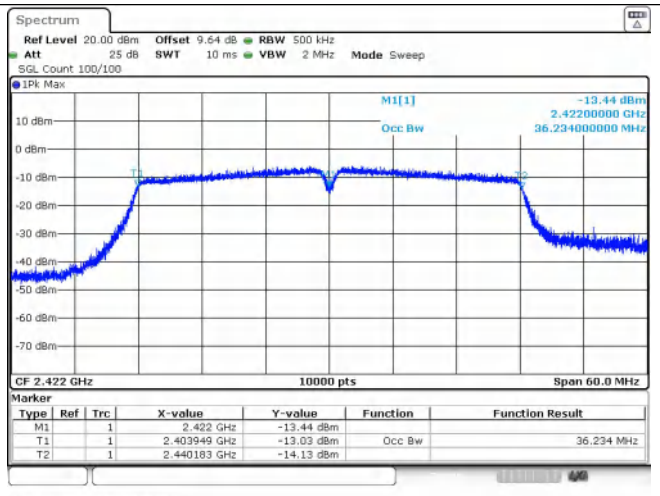
IEEE 802.11n_Channel 1_20MHz_Antenna 0



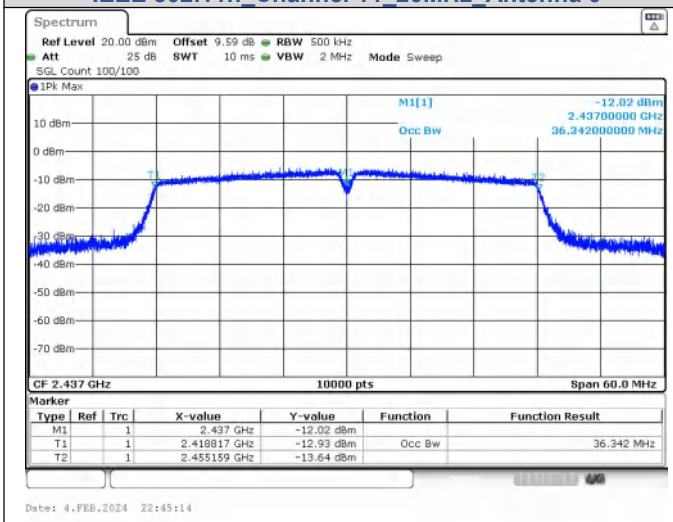
IEEE 802.11n_Channel 6_20MHz_Antenna 0



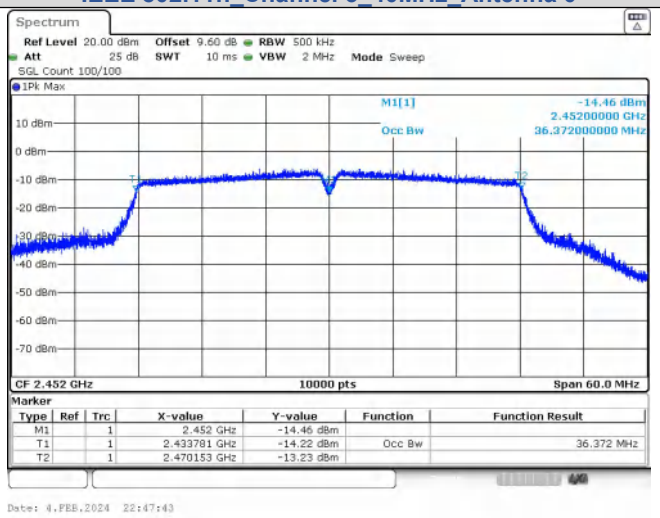
IEEE 802.11n_Channel 11_20MHz_Antenna 0



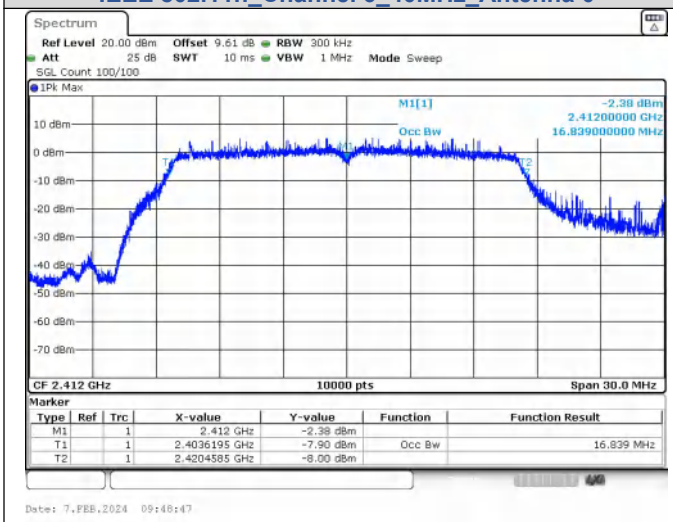
IEEE 802.11n_Channel 3_40MHz_Antenna 0



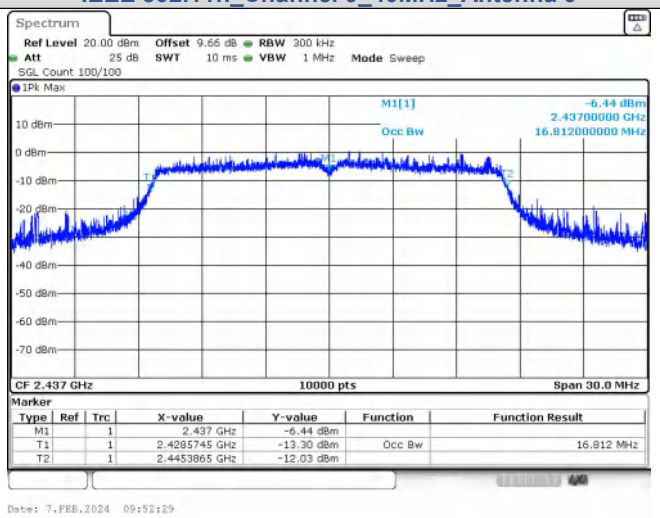
IEEE 802.11n_Channel 6_40MHz_Antenna 0



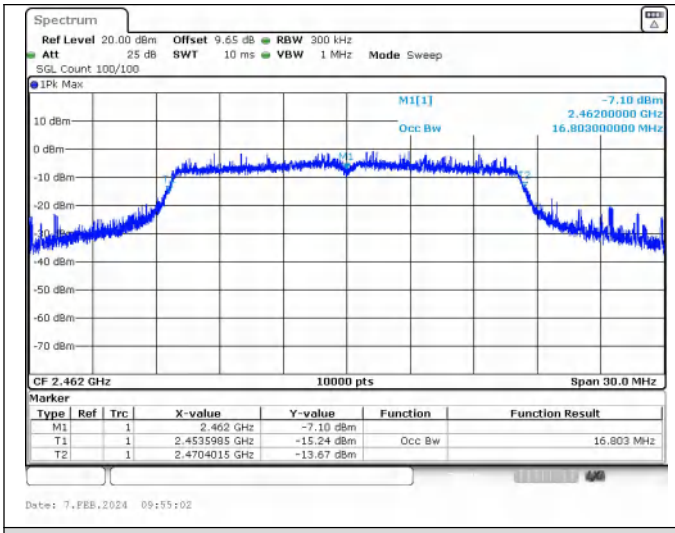
IEEE 802.11n_Channel 9_40MHz_Antenna 0



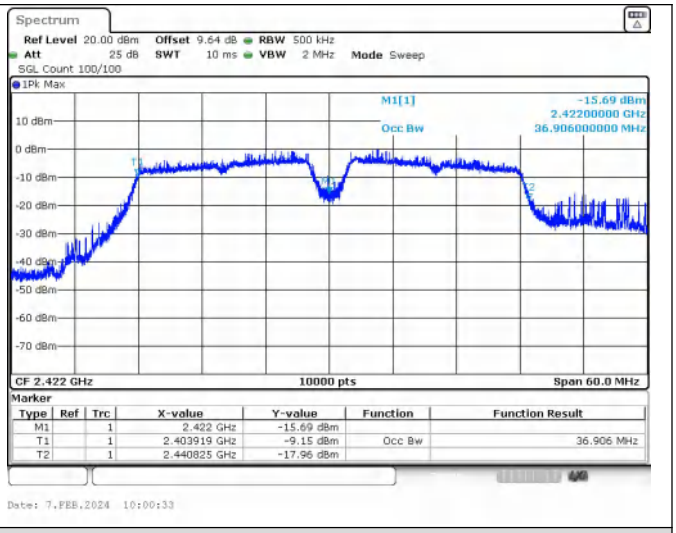
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



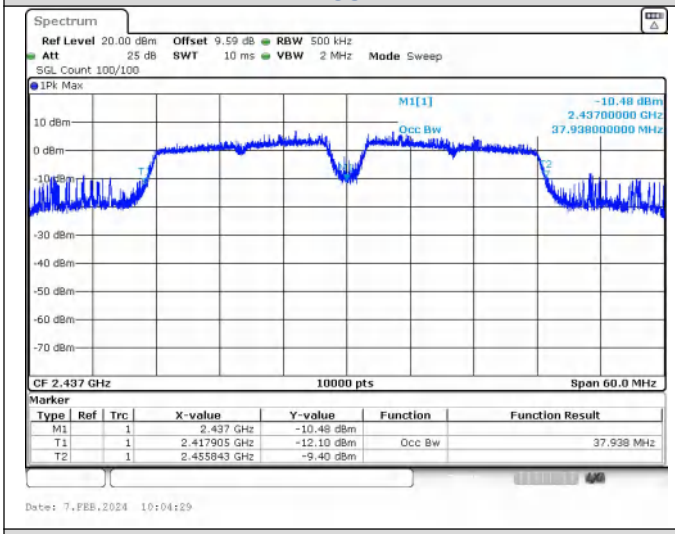
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



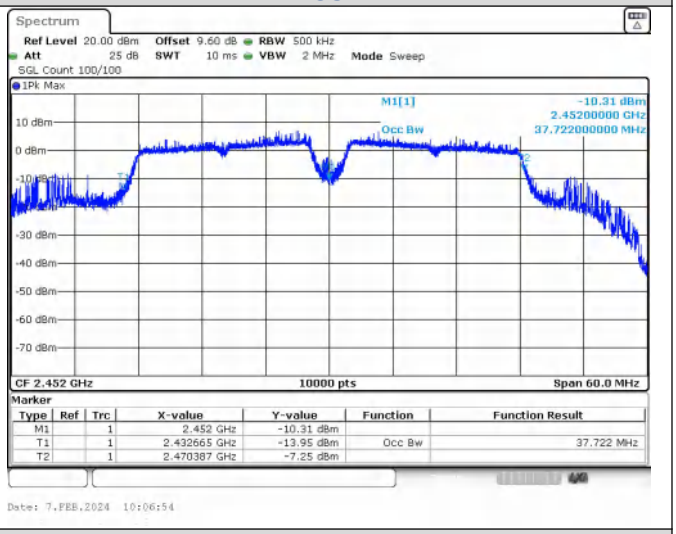
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU



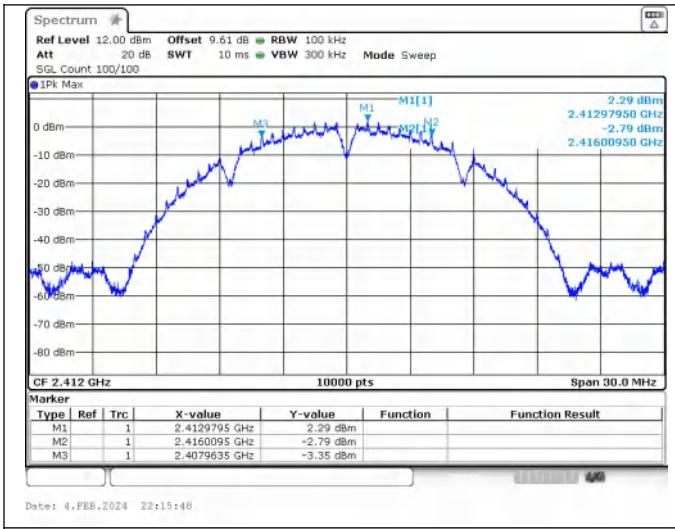
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU

6dB Bandwidth

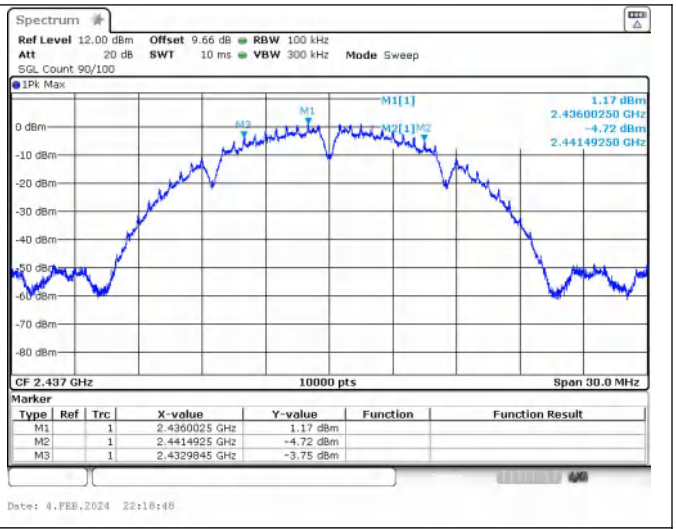
Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	8.050	0.5	PASS
	6			2437	8.510		PASS
	11			2462	7.550		PASS
IEEE 802.11g	1			2412	16.00		PASS
	6			2437	15.61		PASS
	11			2462	15.63		PASS
IEEE 802.11n_20	1			2412	17.27		PASS
	6			2437	16.41		PASS
	11			2462	16.63		PASS
IEEE 802.11n_40	3			2422	35.08		PASS
	6			2437	35.08		PASS
	9			2452	35.10		PASS
IEEE 802.11ax_20	1	SU		2412	12.01		PASS
	6			2437	13.91		PASS
	11			2462	14.98		PASS
IEEE 802.11ax_40	3			2422	31.26		PASS
	6			2437	34.96		PASS
	9			2452	32.60		PASS

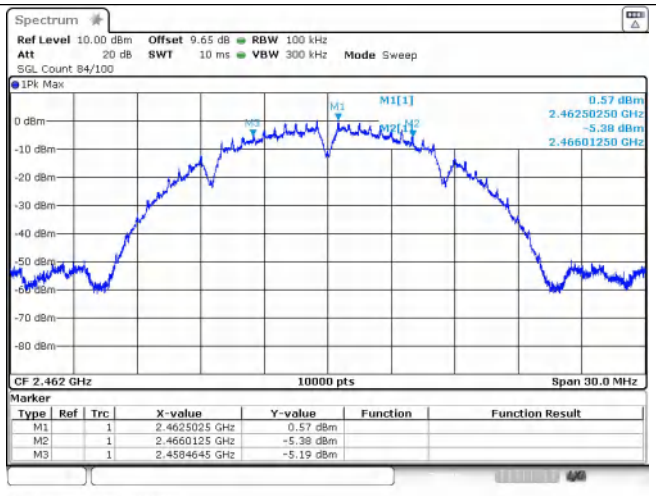
Test Graphs



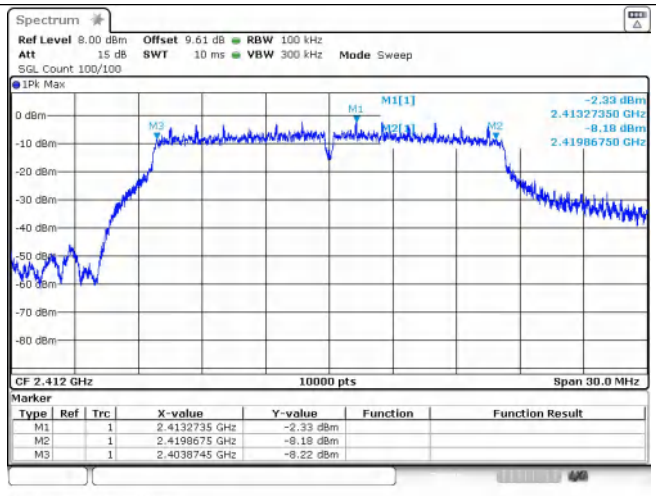
IEEE 802.11b_Channel 1_20MHz_Antenna 0



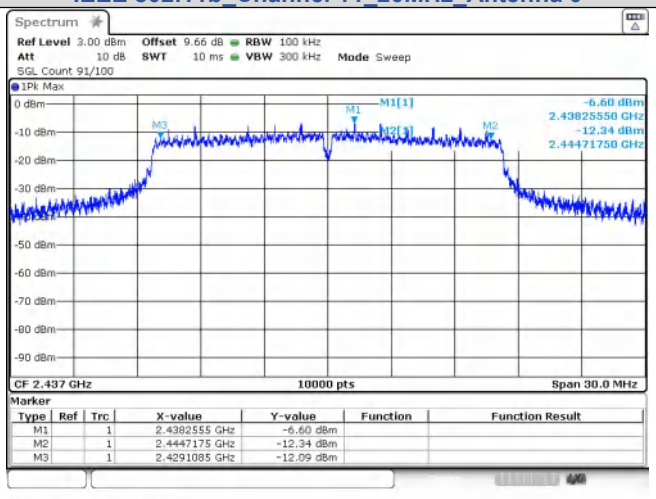
IEEE 802.11b_Channel 6_20MHz_Antenna 0



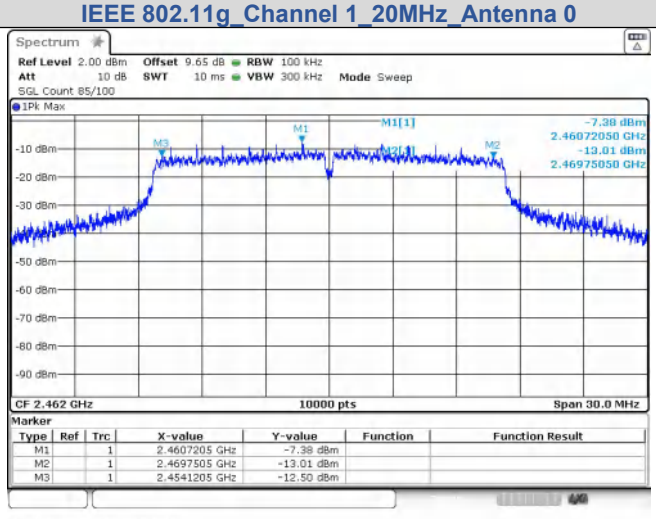
IEEE 802.11b_Channel 11_20MHz_Antenna 0



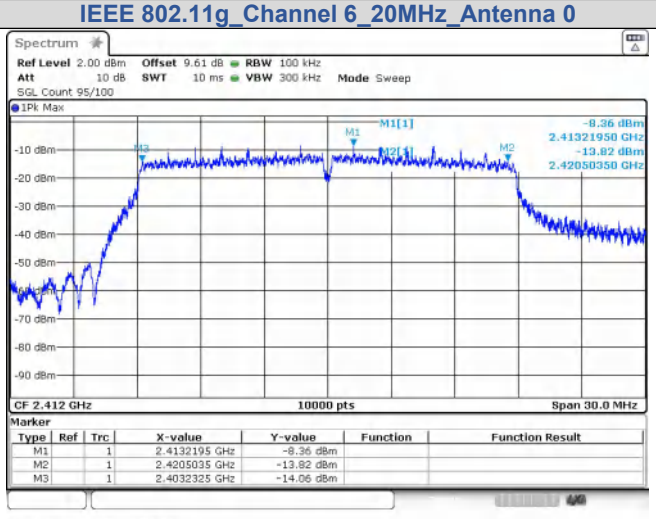
IEEE 802.11g_Channel 1_20MHz_Antenna 0



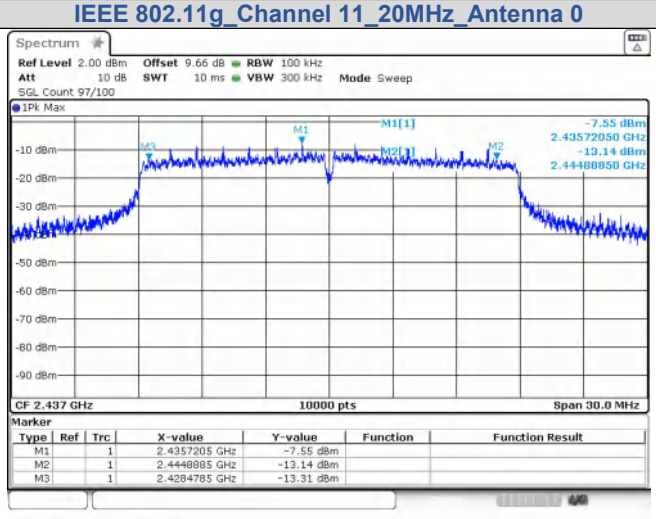
IEEE 802.11g_Channel 6_20MHz_Antenna 0



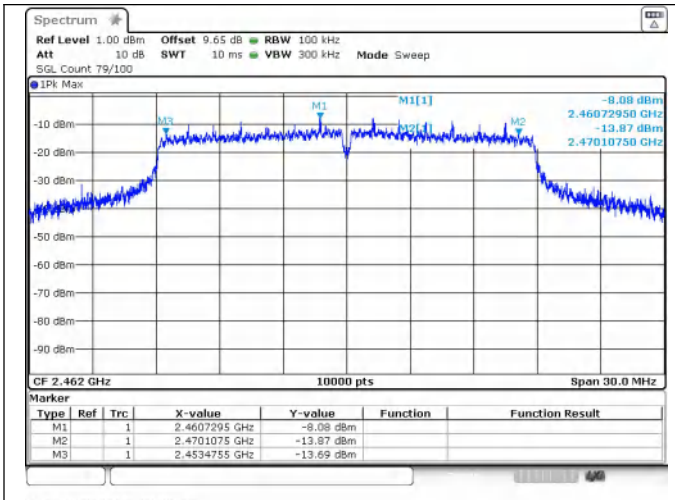
IEEE 802.11g_Channel 11_20MHz_Antenna 0



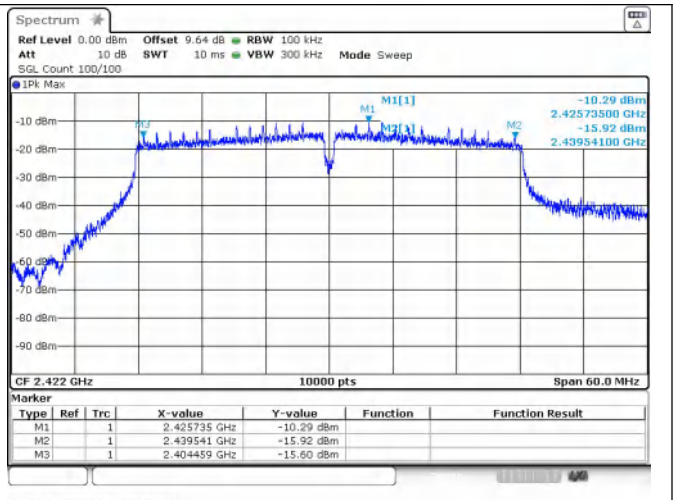
IEEE 802.11n_Channel 1_20MHz_Antenna 0



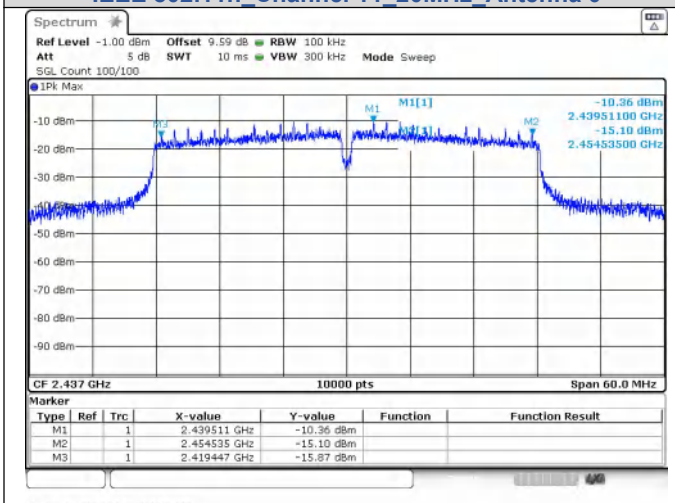
IEEE 802.11n_Channel 6_20MHz_Antenna 0



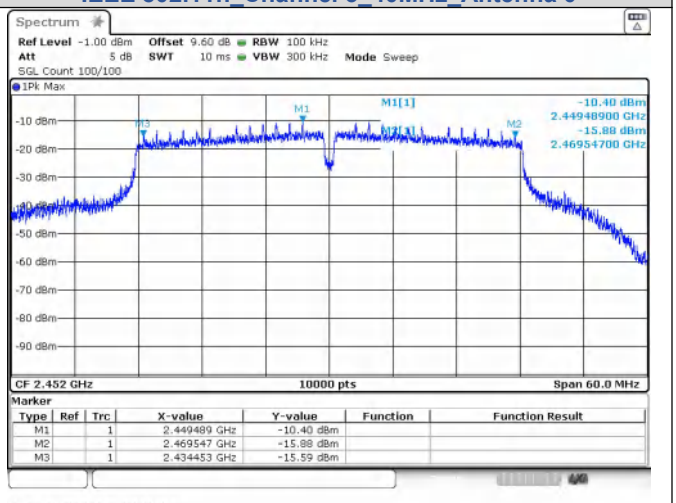
IEEE 802.11n_Channel 11_20MHz_Antenna 0



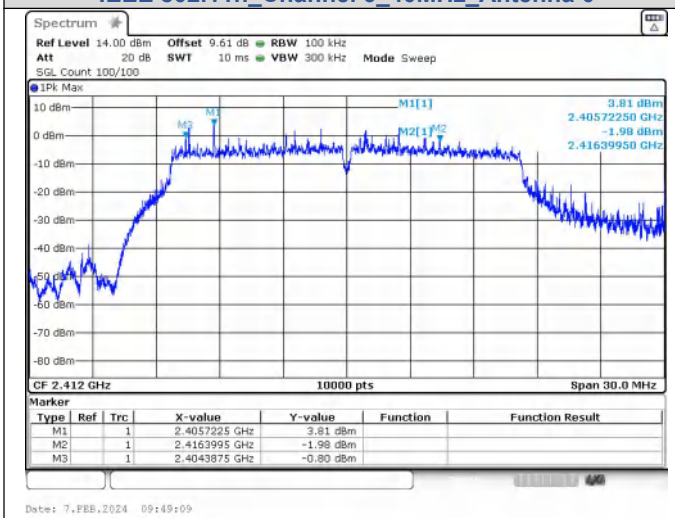
IEEE 802.11n_Channel 3_40MHz_Antenna 0



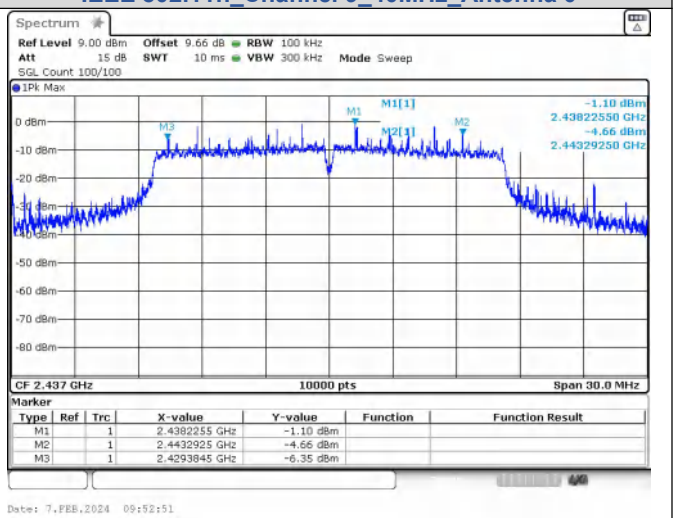
IEEE 802.11n_Channel 6_40MHz_Antenna 0



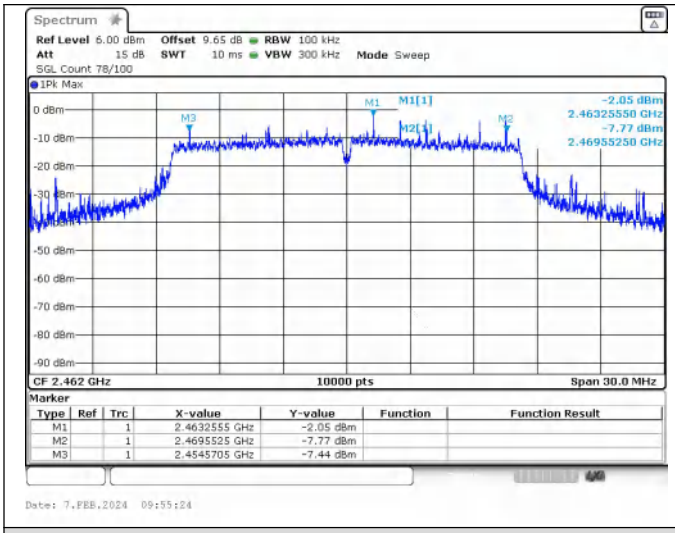
IEEE 802.11n_Channel 9_40MHz_Antenna 0



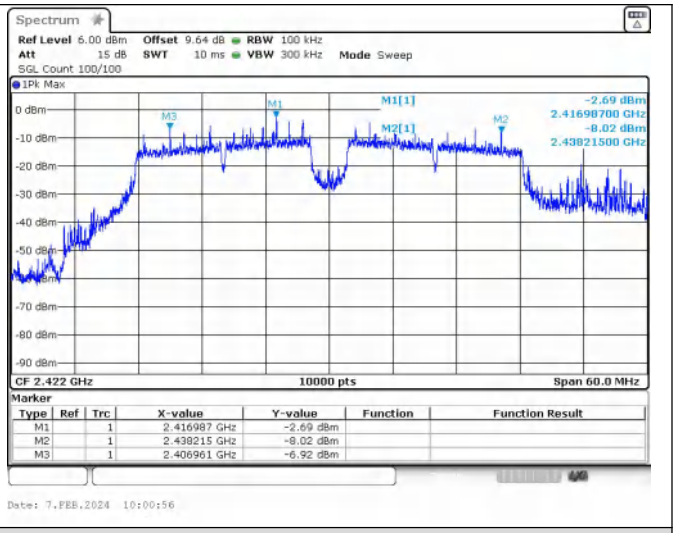
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



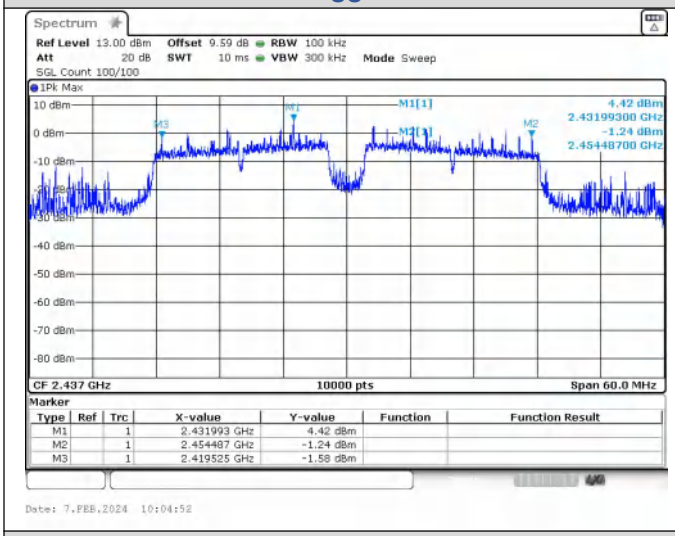
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



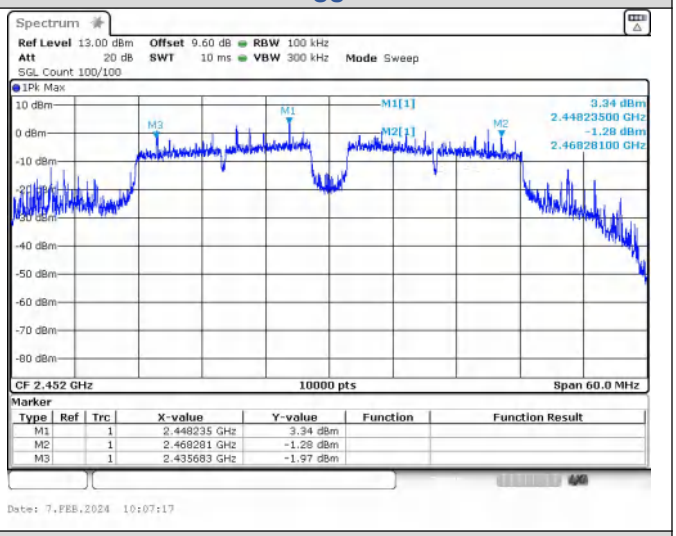
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU



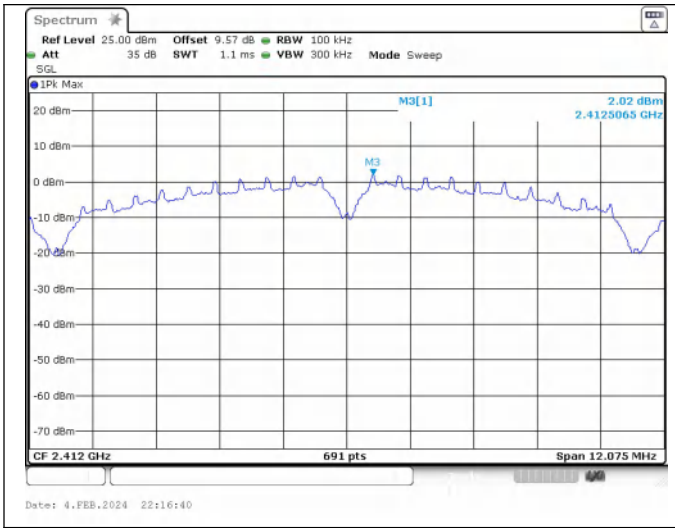
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU

Conducted Out Of Band Emission

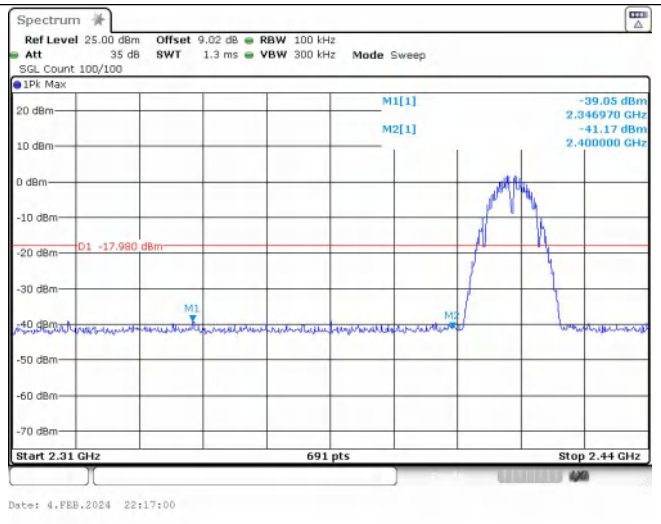
Test Result

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	2400.00	-41.168	-17.98	-23.188	PASS
				2346.97	-39.049	-17.98	-21.069	PASS
				16597.2	-39.880	-17.98	-21.900	PASS
	6			22052.3	-38.710	-18.55	-20.160	PASS
	11			2483.50	-40.239	-19.81	-20.430	PASS
				16355.8	-39.238	-19.81	-19.428	PASS
IEEE 802.11g	1			2400.00	-40.227	-22.43	-17.797	PASS
				2356.56	-38.957	-22.43	-16.527	PASS
				16541.4	-39.542	-22.43	-17.112	PASS
	6			21989.0	-39.382	-27.04	-12.342	PASS
	11			2483.50	-39.933	-27.7	-12.233	PASS
				18286.0	-39.340	-27.7	-11.640	PASS
IEEE 802.11n_20	1			2400.00	-41.260	-27.96	-13.300	PASS
				2345.09	-39.099	-27.96	-11.139	PASS
				18247.7	-39.153	-27.96	-11.193	PASS
	6			16286.7	-39.363	-28.28	-11.083	PASS
	11			2483.50	-40.986	-28.99	-11.996	PASS
				15975.4	-39.345	-28.99	-10.355	PASS
IEEE 802.11n_40	3			2400.00	-41.535	-30.27	-11.265	PASS
				2383.84	-38.535	-30.27	-8.265	PASS
				22022.3	-39.503	-30.27	-9.233	PASS
	6			15859.7	-39.203	-30.14	-9.063	PASS
	9			2483.50	-40.898	-30.42	-10.478	PASS
				22059.0	-39.416	-30.42	-8.996	PASS
IEEE 802.11ax_20	1	SU		2400.00	-39.226	-15.96	-23.266	PASS
				2320.25	-38.902	-15.96	-22.942	PASS
				18254.4	-39.680	-15.96	-23.720	PASS
	6			22011.5	-38.931	-20.61	-18.321	PASS
	11			2483.50	-40.696	-22.86	-17.836	PASS
				16583.0	-39.348	-22.86	-16.488	PASS
IEEE 802.11ax_40	3			2400.00	-34.147	-23.86	-10.287	PASS
				16544.7	-38.863	-23.86	-15.003	PASS
	6			15939.6	-39.098	-15.58	-23.518	PASS
	9			2483.50	-40.302	-19.1	-21.202	PASS
				16573.9	-39.445	-19.1	-20.345	PASS

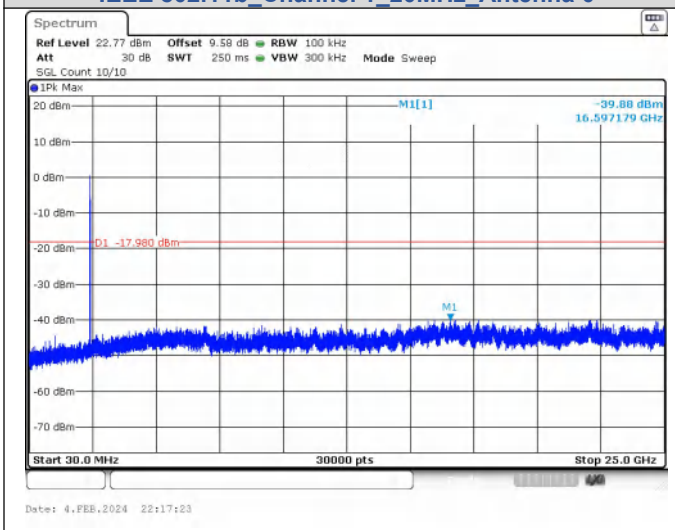
Test Graphs



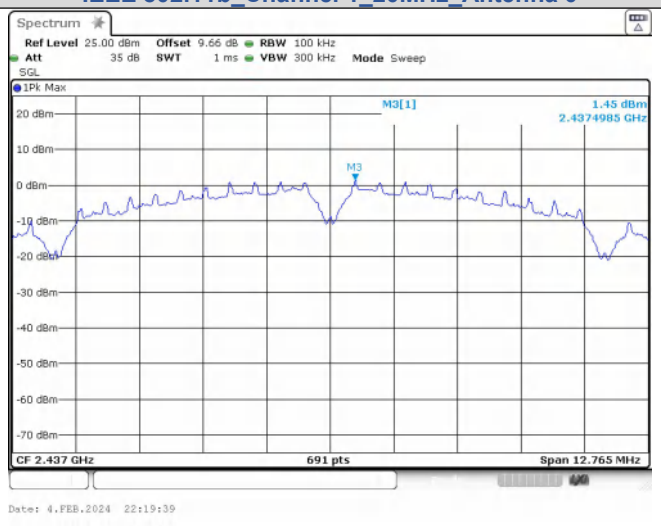
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



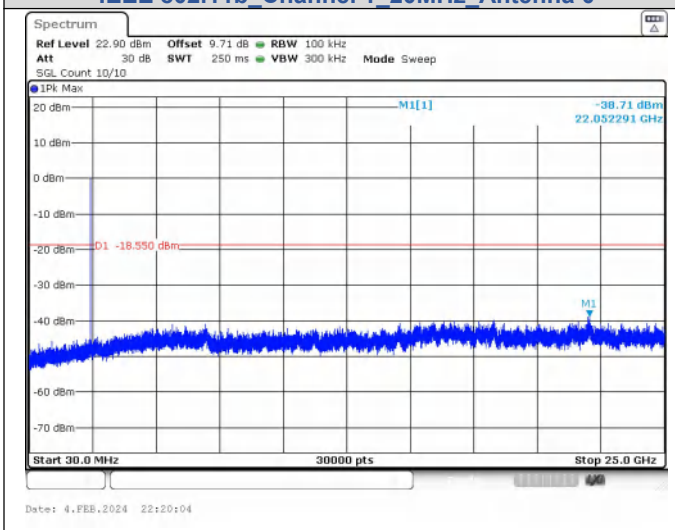
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



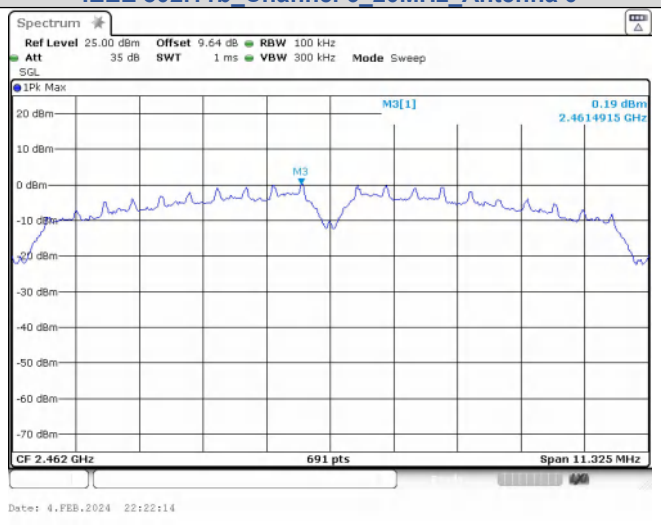
Spurious Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



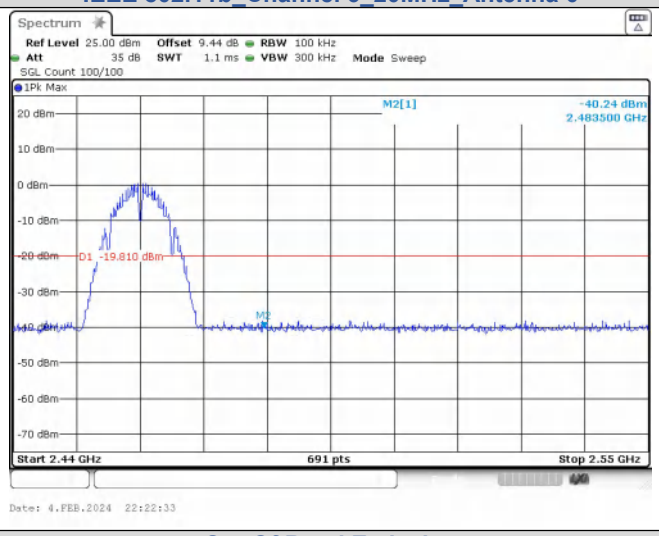
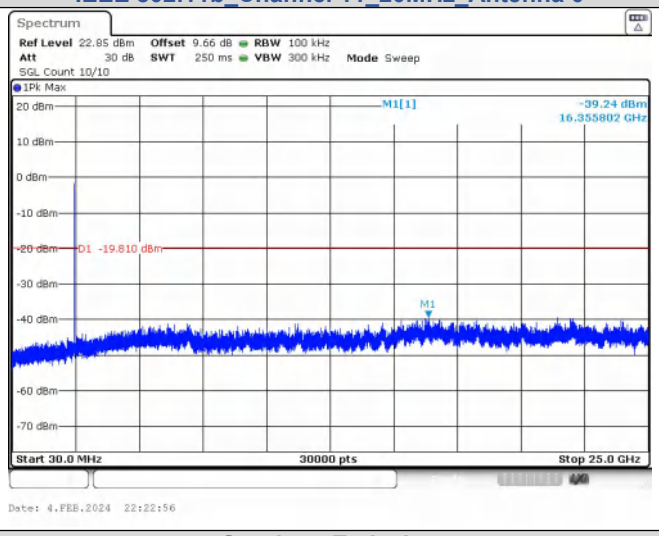
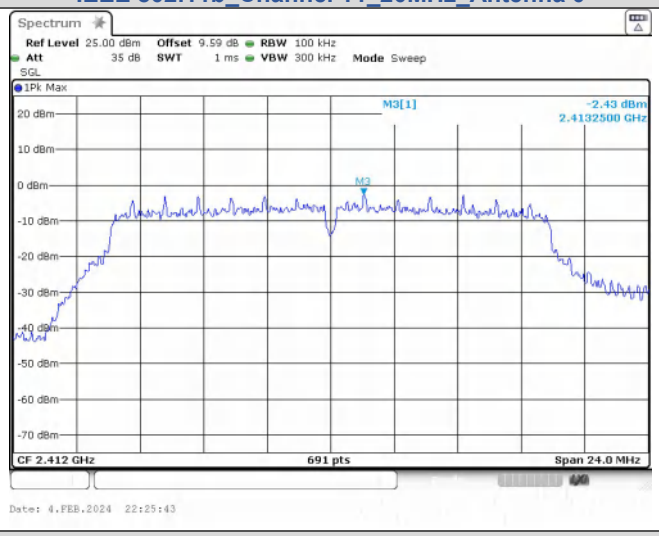
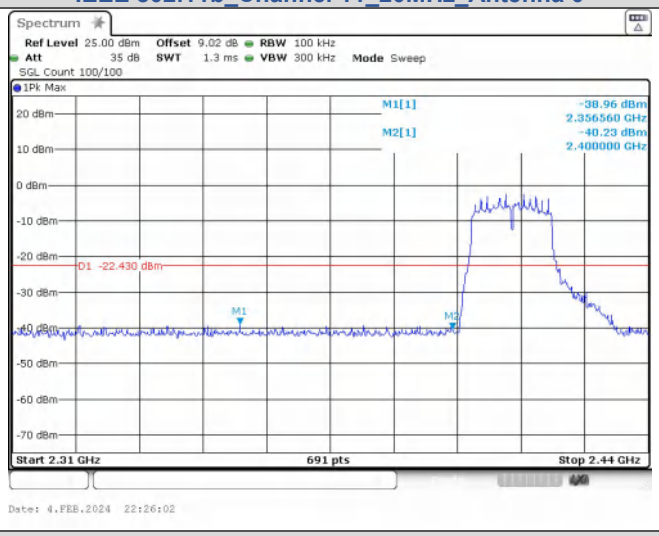
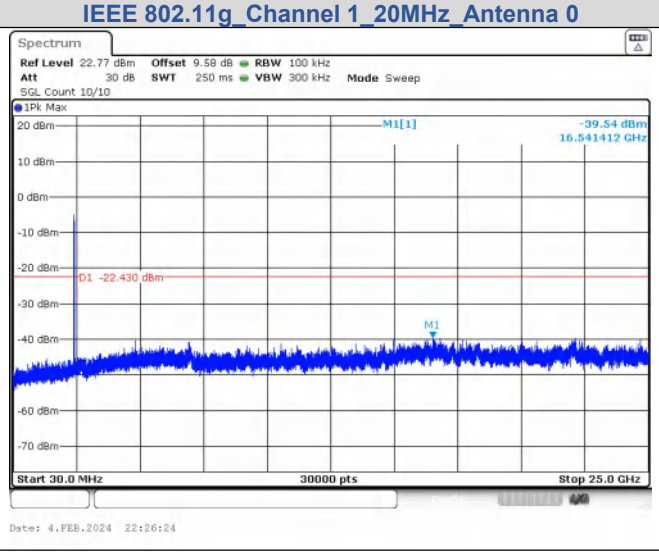
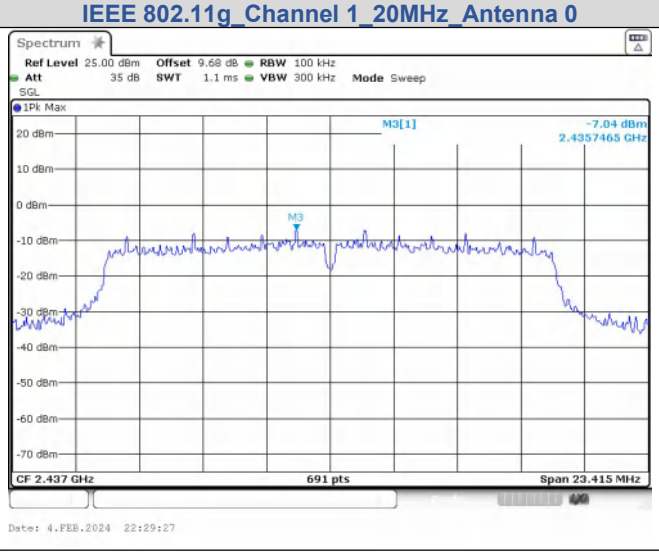
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



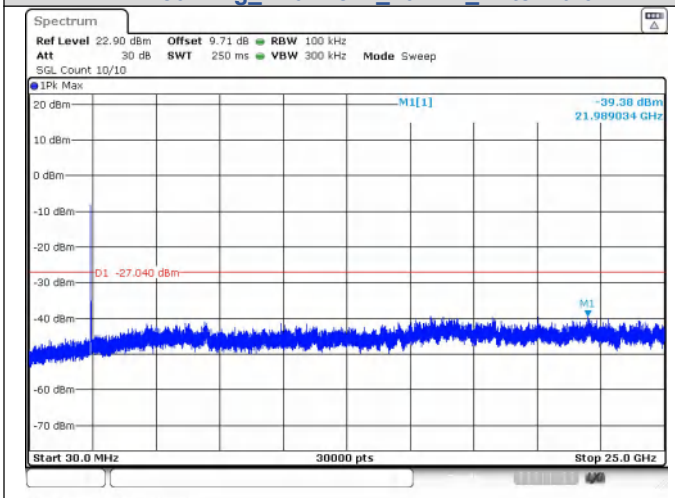
Spurious Emissions



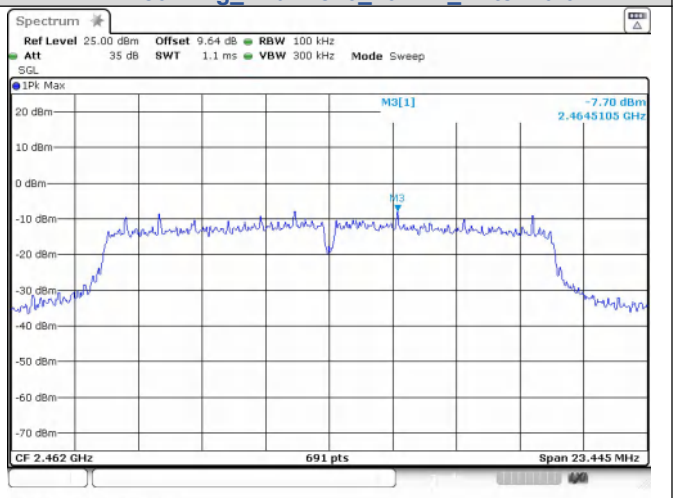
In-Band Reference Level

IEEE 802.11b_Channel 6_20MHz_Antenna 0	IEEE 802.11b_Channel 11_20MHz_Antenna 0
	
Out Of Band Emission IEEE 802.11b_Channel 11_20MHz_Antenna 0	Spurious Emission 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
	

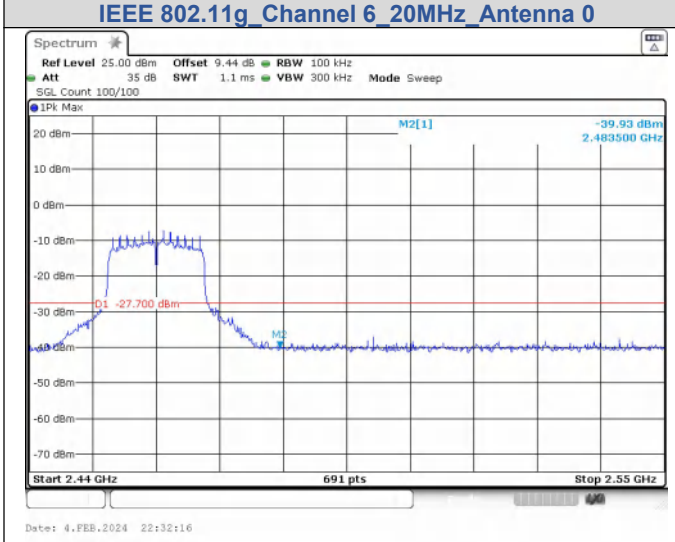
Spurious Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



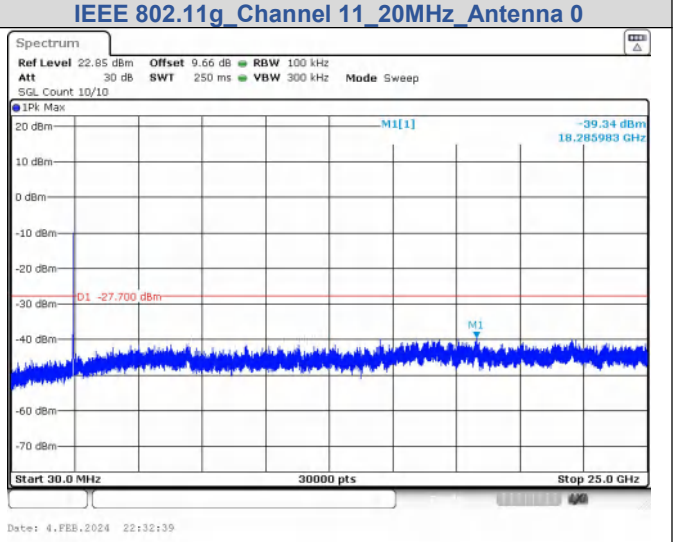
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



Spurious Emissions
IEEE 802.11g_Channel 6_20MHz_Antenna 0

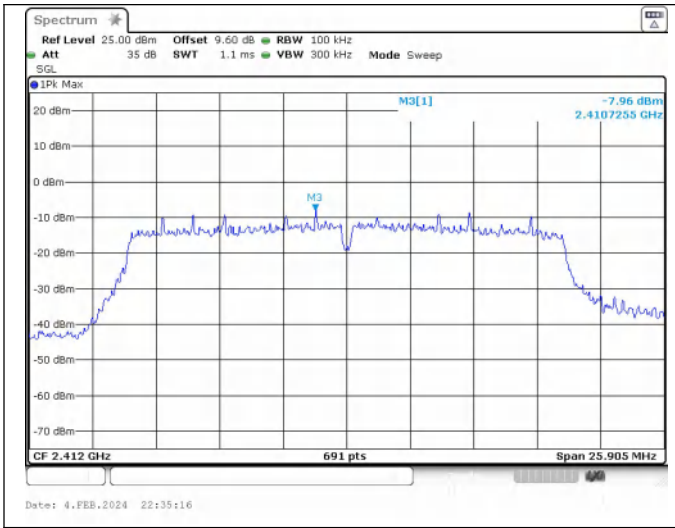


In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0

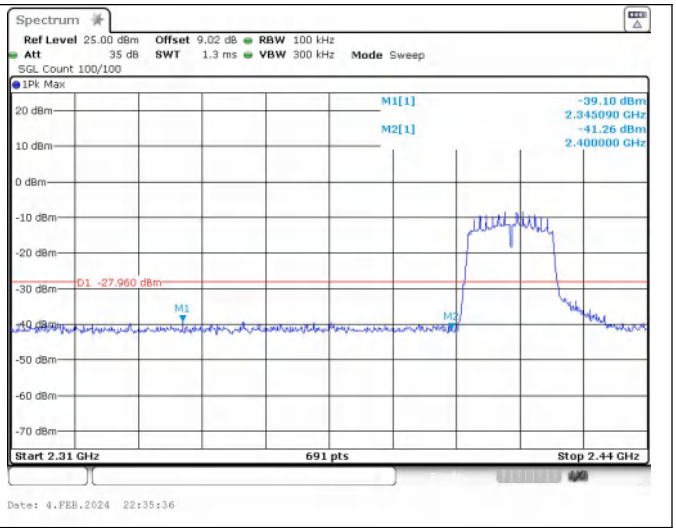


Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0

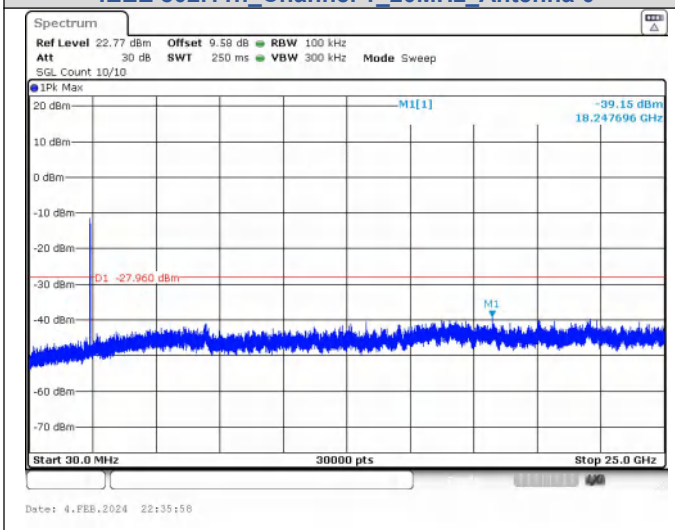
Spurious Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



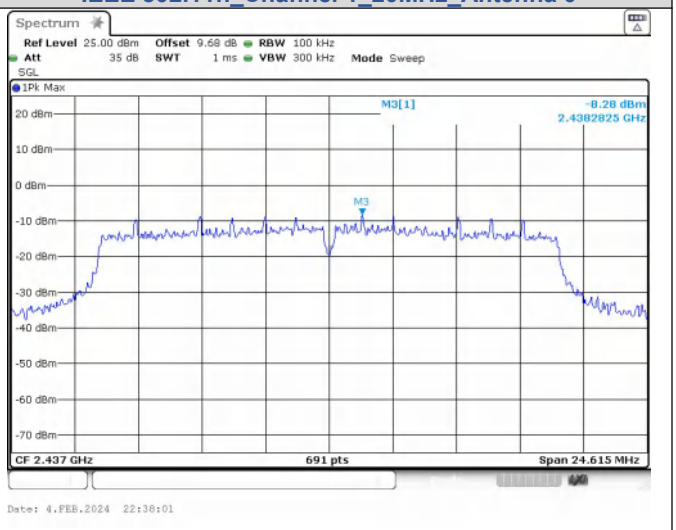
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



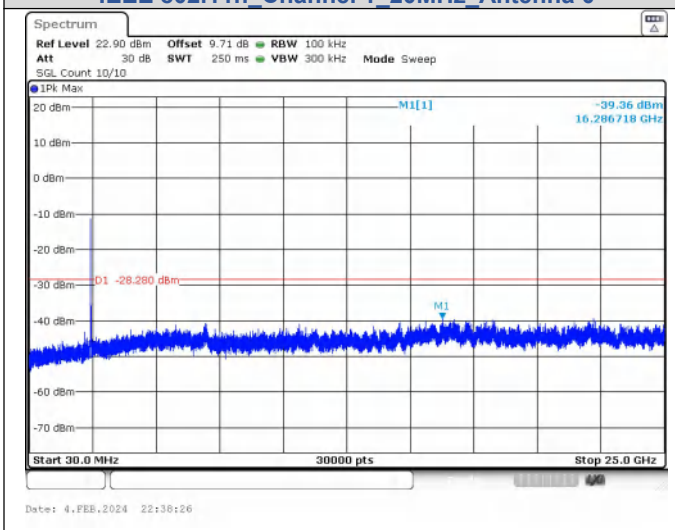
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



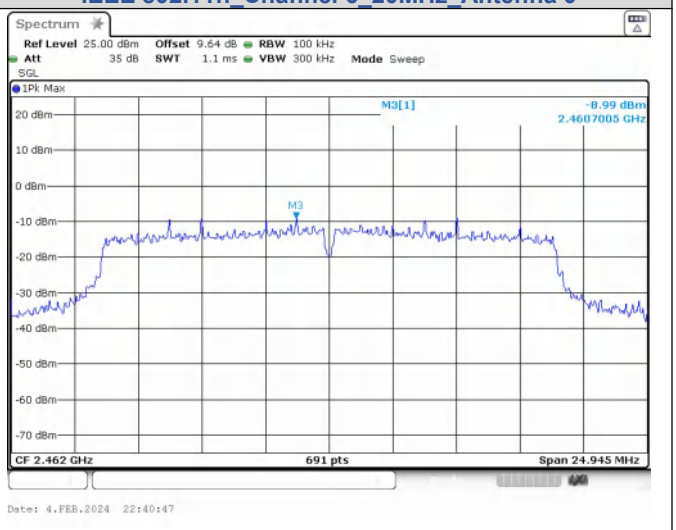
Spurious Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0

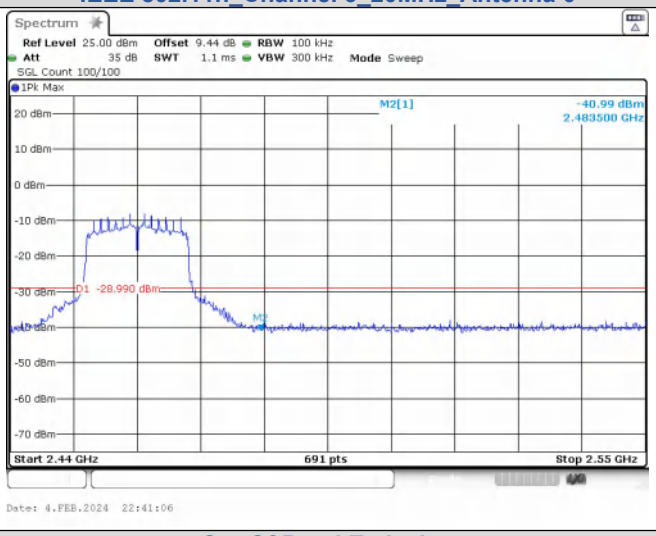


Spurious Emissions

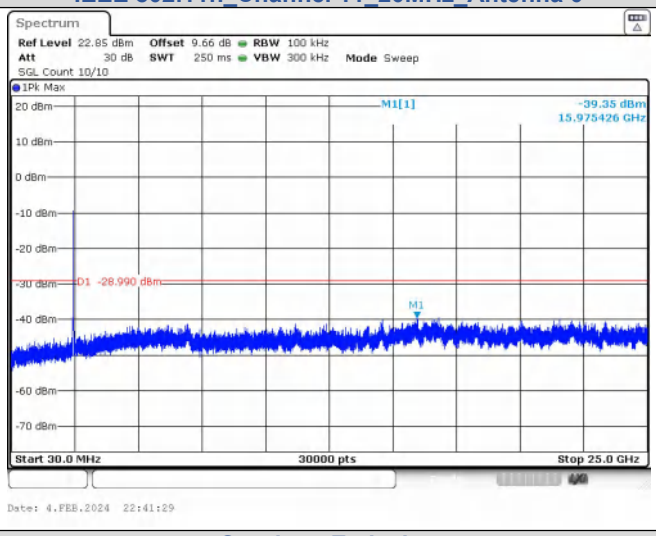


In-Band Reference Level

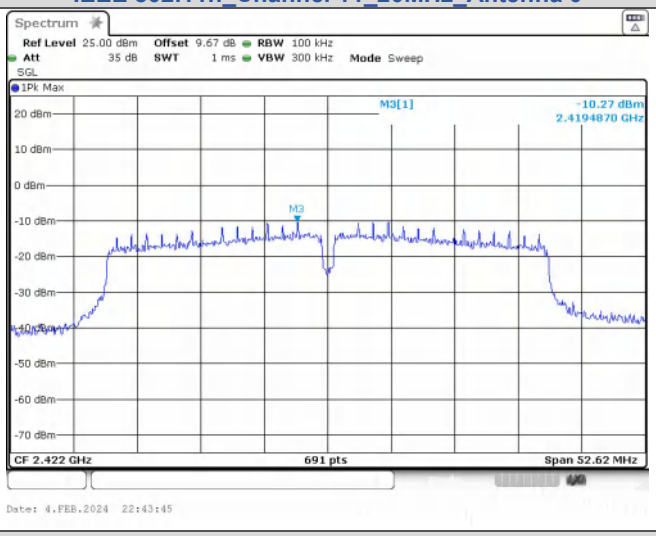
IEEE 802.11n_Channel 6_20MHz_Antenna 0



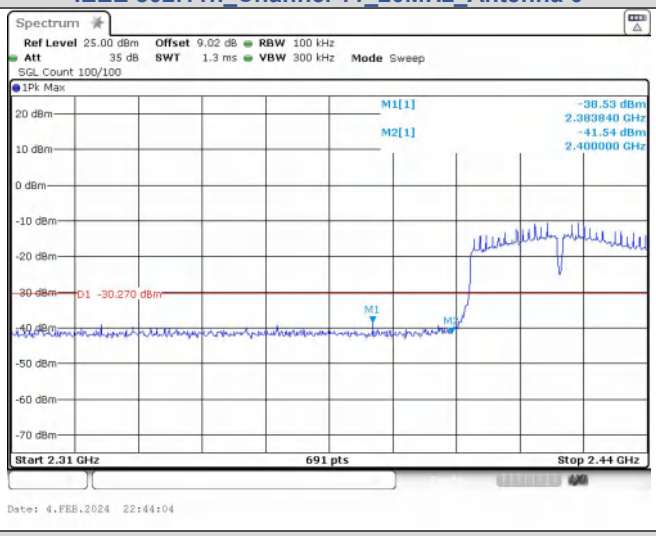
IEEE 802.11n_Channel 11_20MHz_Antenna 0



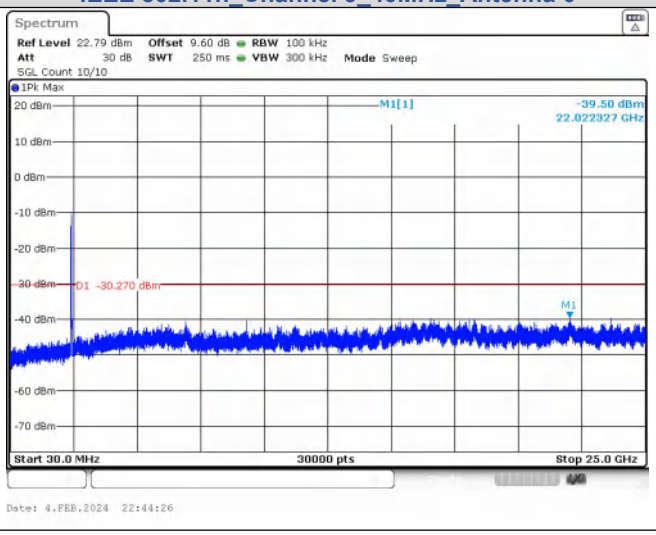
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



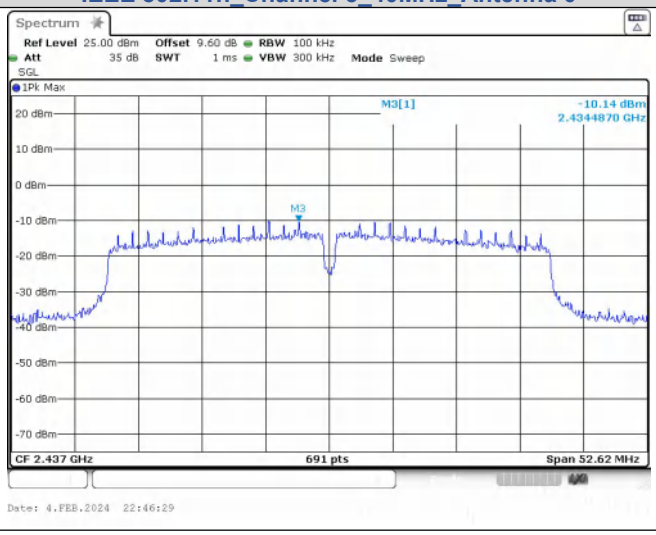
Spurious Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



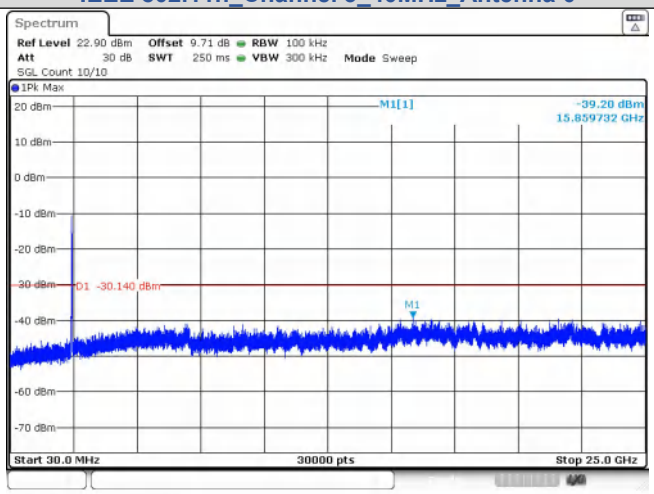
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Spurious Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



In-Band Reference Level
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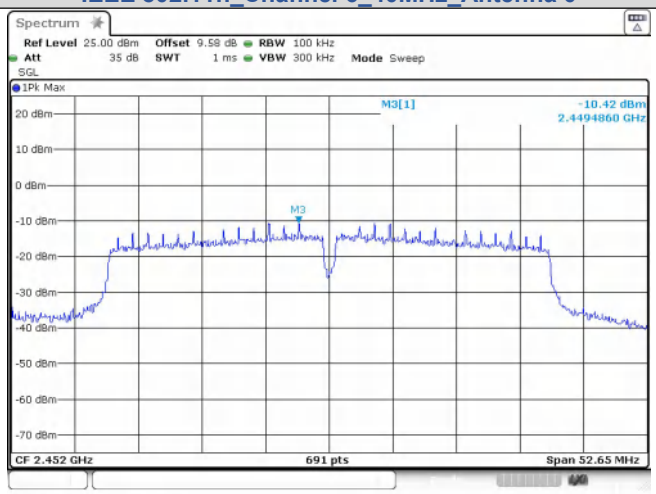
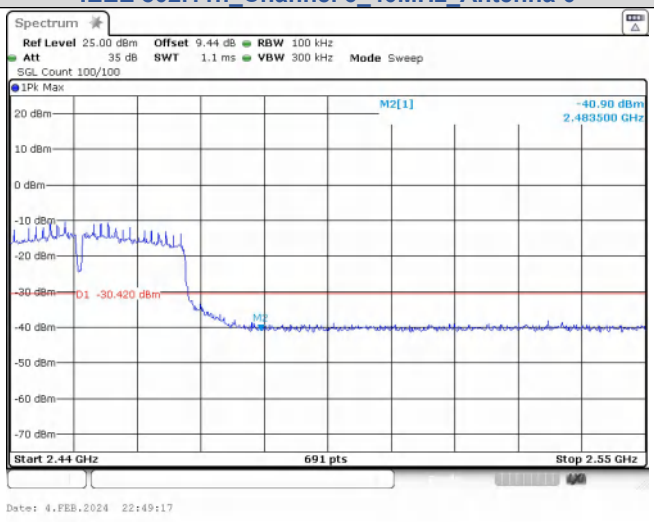
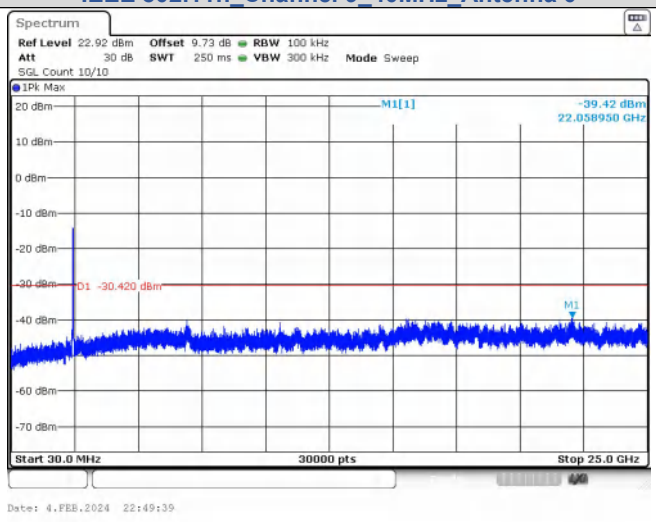


Spurious Emissions
IEEE 802.11n_Channel 6_40MHz_Antenna 0

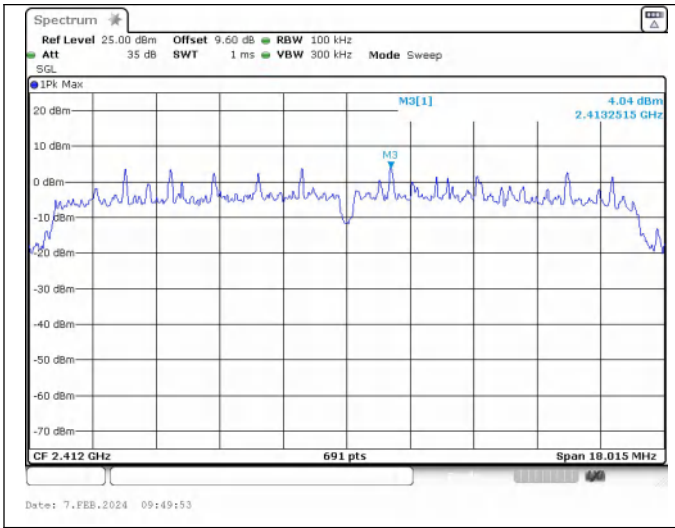


In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0

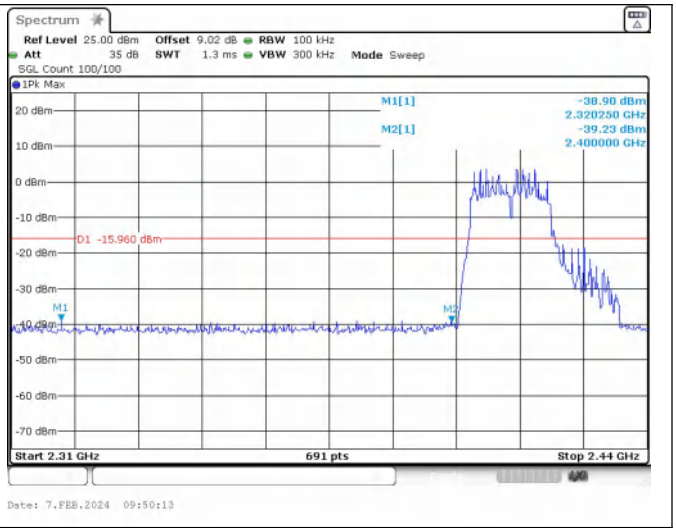


Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0

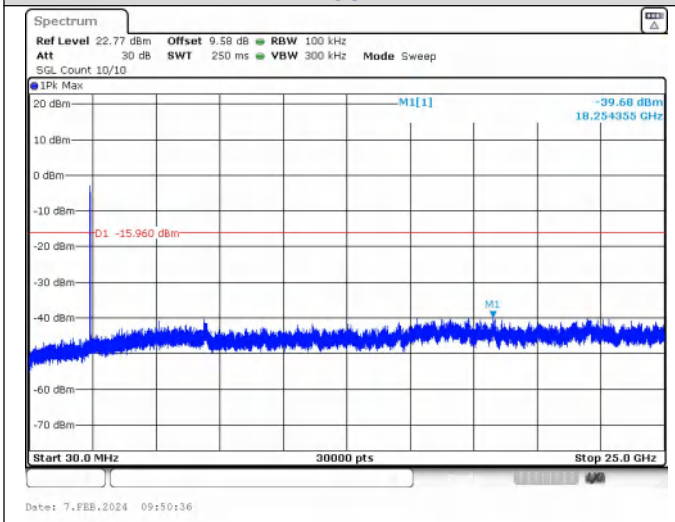
Spurious Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0



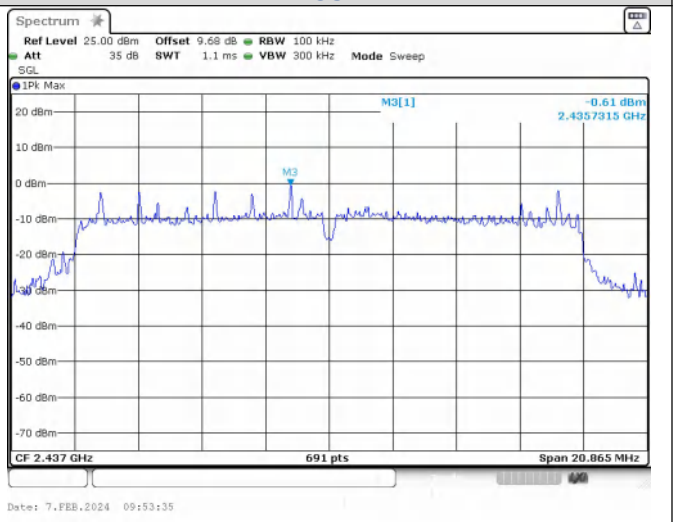
In-Band Reference Level
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



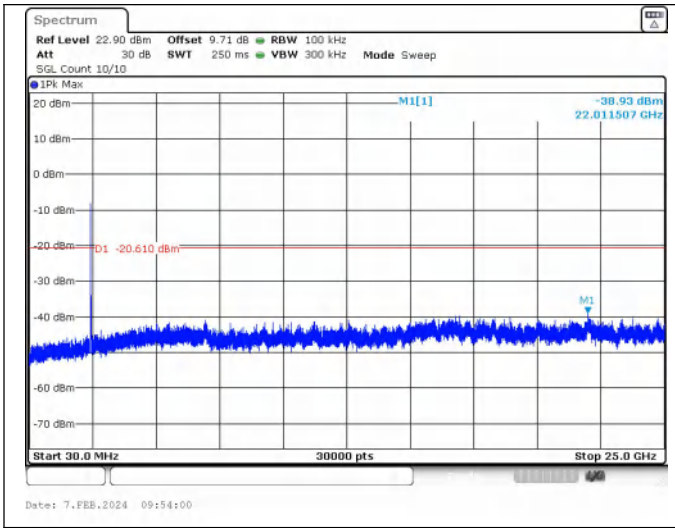
Out Of Band Emission
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



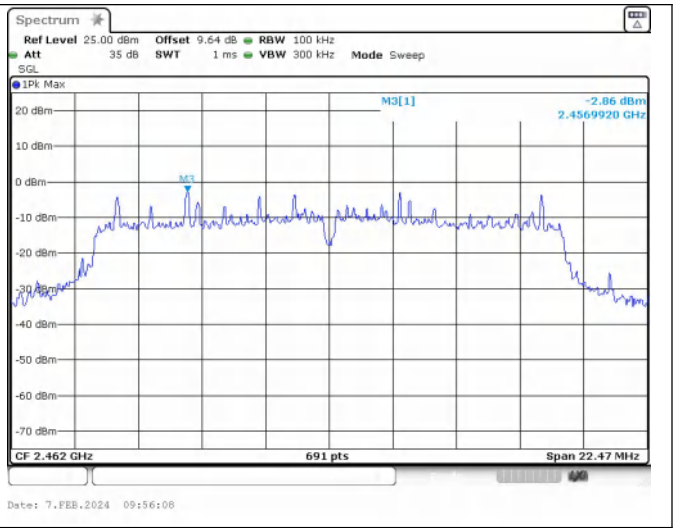
Spurious Emission
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



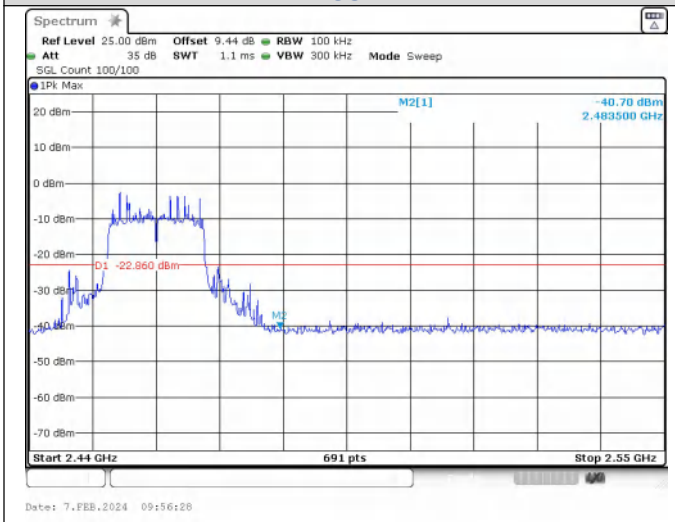
In-Band Reference Level
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



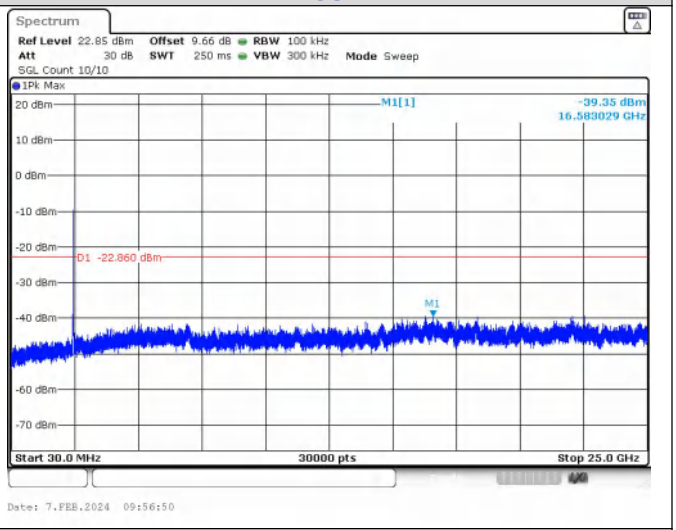
Spurious Emissions
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



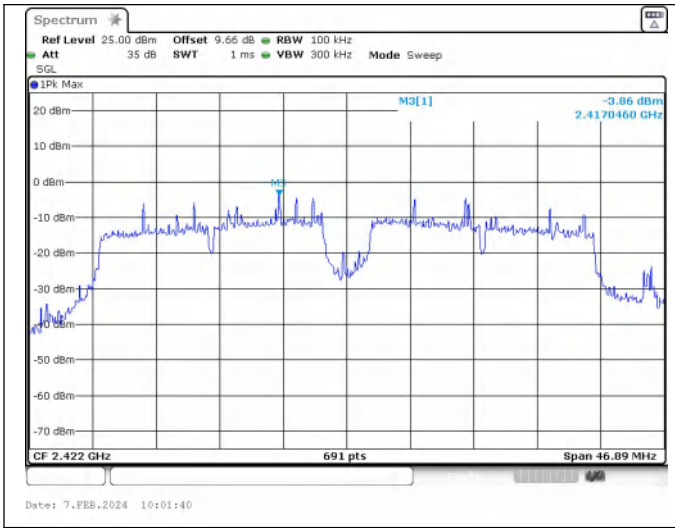
In-Band Reference Level
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



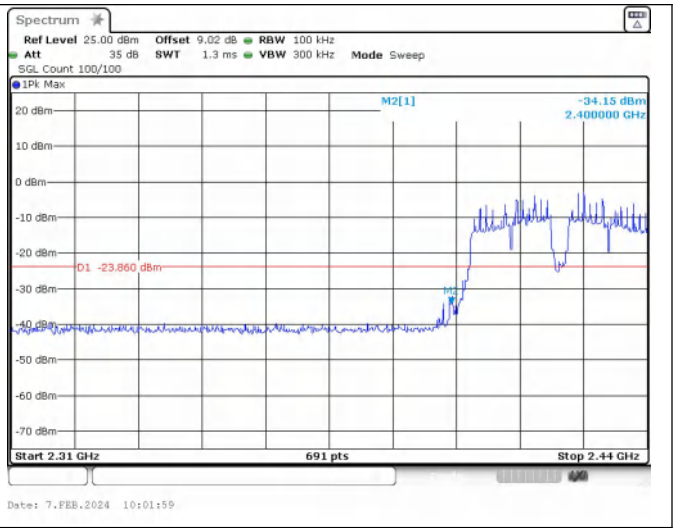
Out Of Band Emission
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



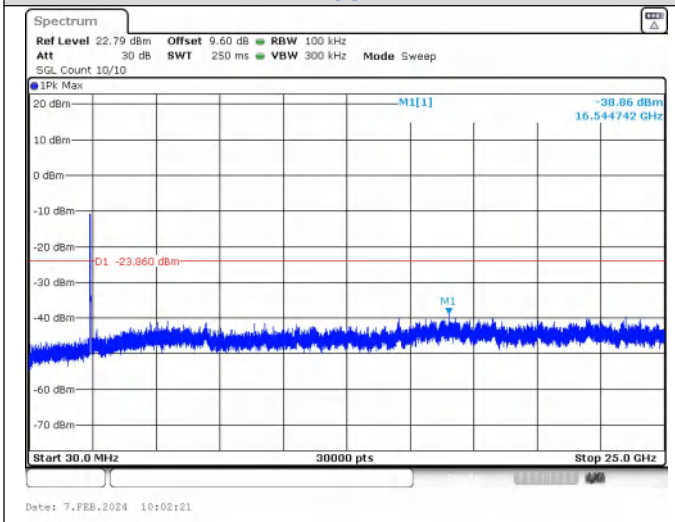
Spurious Emission
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



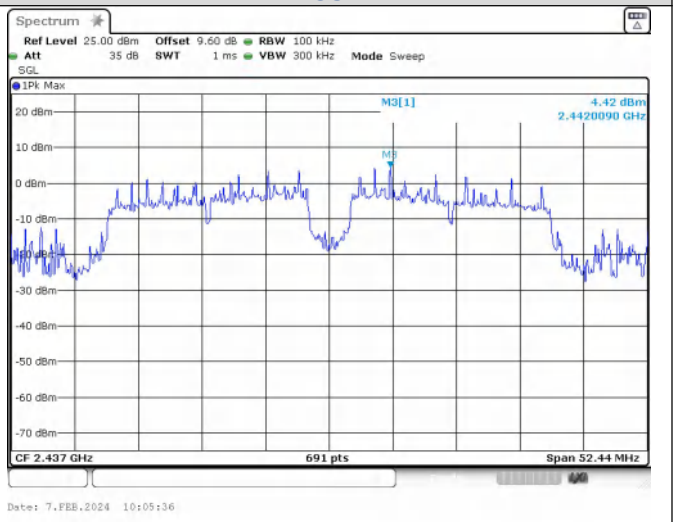
In-Band Reference Level
IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



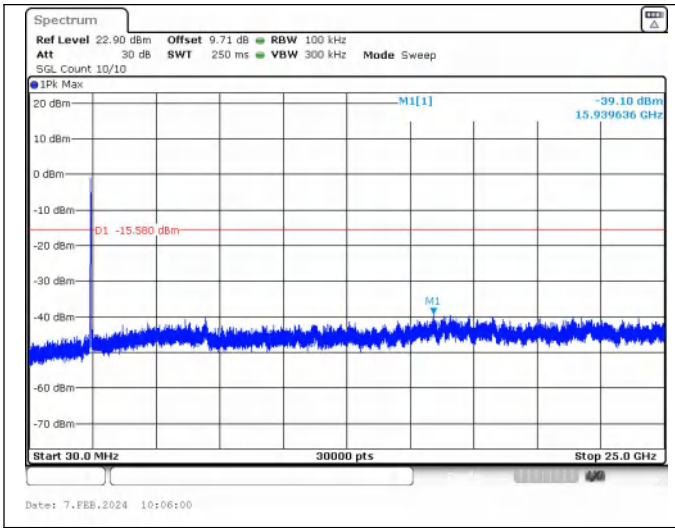
Out Of Band Emission
IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



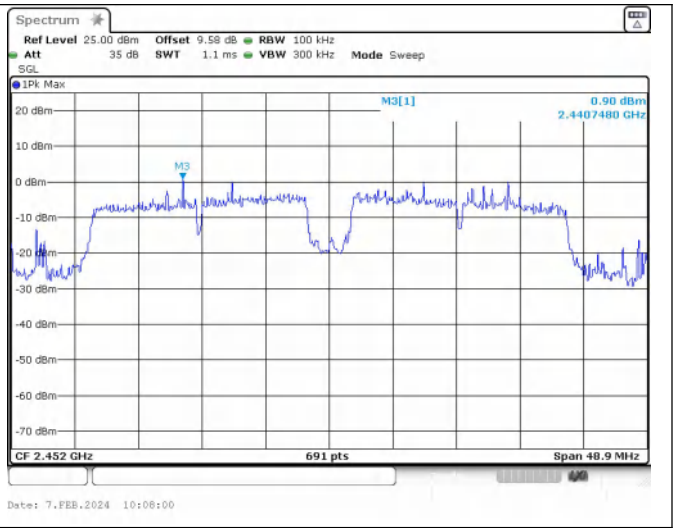
Spurious Emission
IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



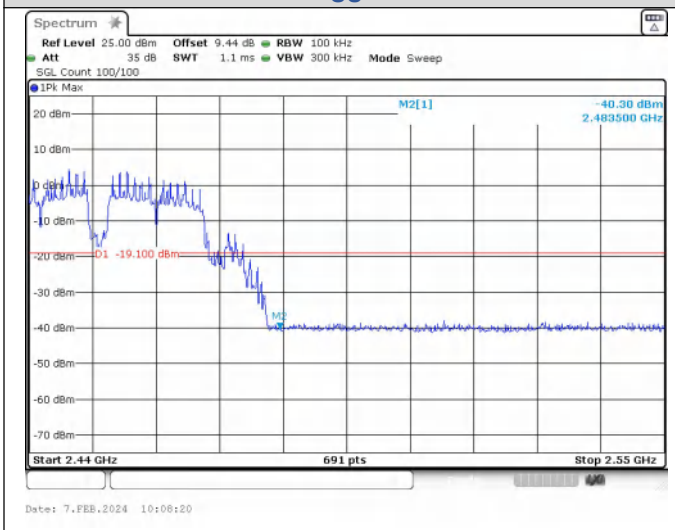
In-Band Reference Level
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU



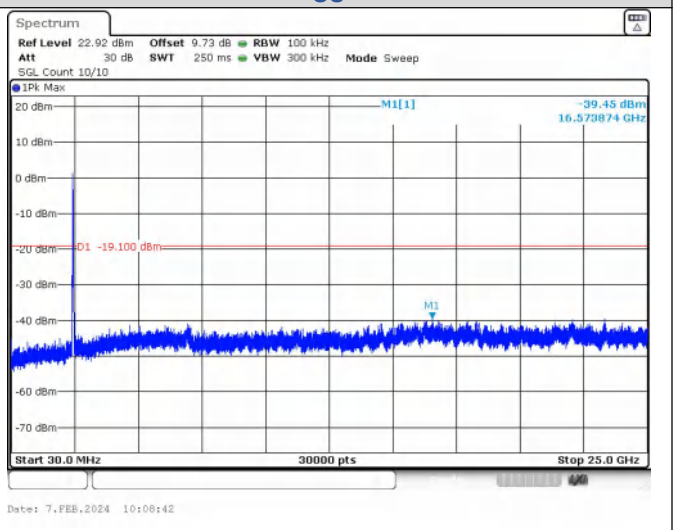
Spurious Emissions
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU



In-Band Reference Level
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU



Out Of Band Emission
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU



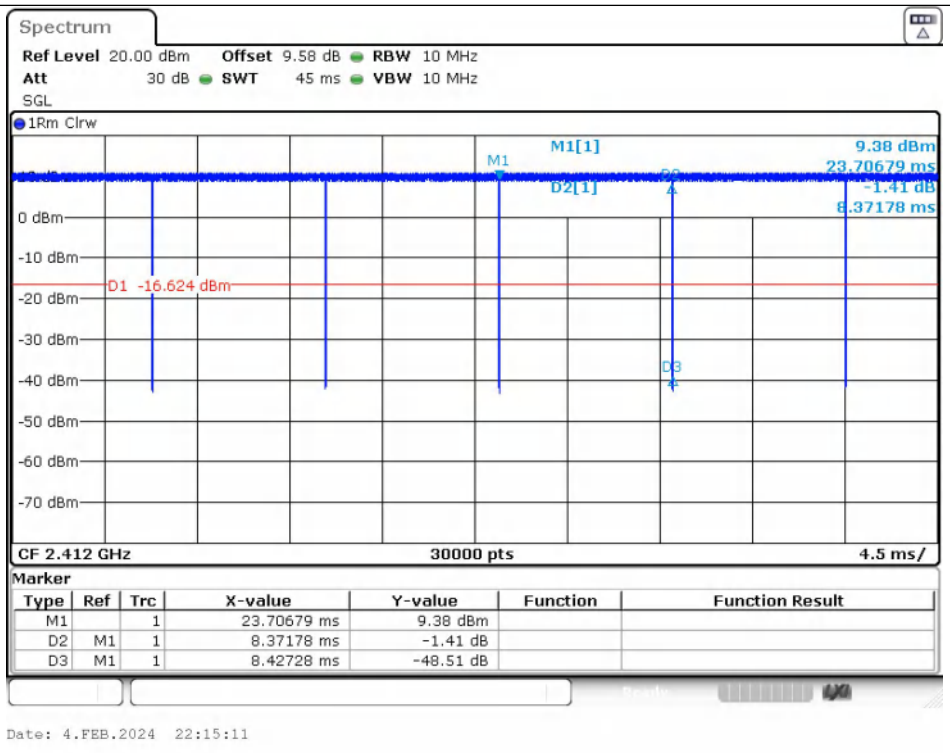
Spurious Emission
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU

Duty Cycle

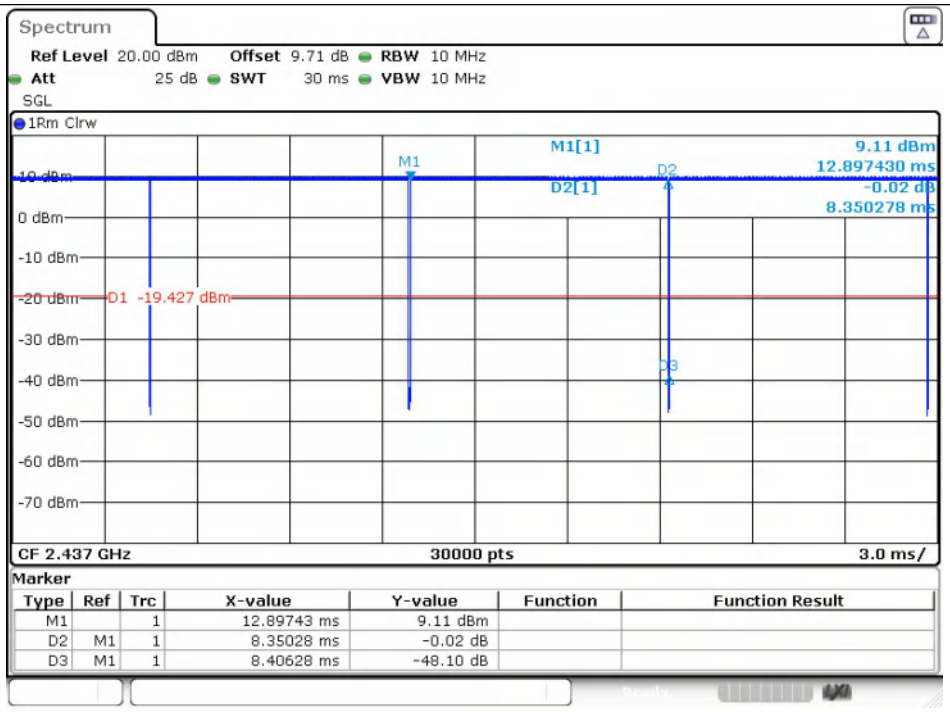
Test Result

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	8.372	8.427	99.34	0.9934	0.0288	0.12
		6			8.350	8.406	99.33	0.9933	0.0292	0.12
		11			8.373	8.429	99.34	0.9934	0.0288	0.12
IEEE 802.11g		1			1.400	1.454	96.29	0.9629	0.1642	0.71
		6			1.400	1.454	96.29	0.9629	0.1642	0.71
		11			1.400	1.454	96.29	0.9629	0.1642	0.71
IEEE 802.11n_20	MCS 0	1			1.301	1.355	95.97	0.9597	0.1786	0.77
		6			1.301	1.355	96.01	0.9601	0.1768	0.77
		11			1.312	1.366	96.05	0.9605	0.175	0.76
IEEE 802.11n_40		3			0.650	0.706	92.07	0.9207	0.3588	1.54
		6			0.650	0.705	92.12	0.9212	0.3565	1.54
		9			0.650	0.705	92.12	0.9212	0.3565	1.54
IEEE 802.11ax_20		1	SU		5.049	5.098	99.03	0.9903	0.0423	0.20
		6			5.049	5.101	98.99	0.9899	0.0441	0.20
		11			5.049	5.099	99.03	0.9903	0.0423	0.20
IEEE 802.11ax_40		3			5.049	5.098	99.03	0.9903	0.0423	0.20
		6			5.049	5.098	99.03	0.9903	0.0423	0.20
		9			5.049	5.101	98.99	0.9899	0.0441	0.20

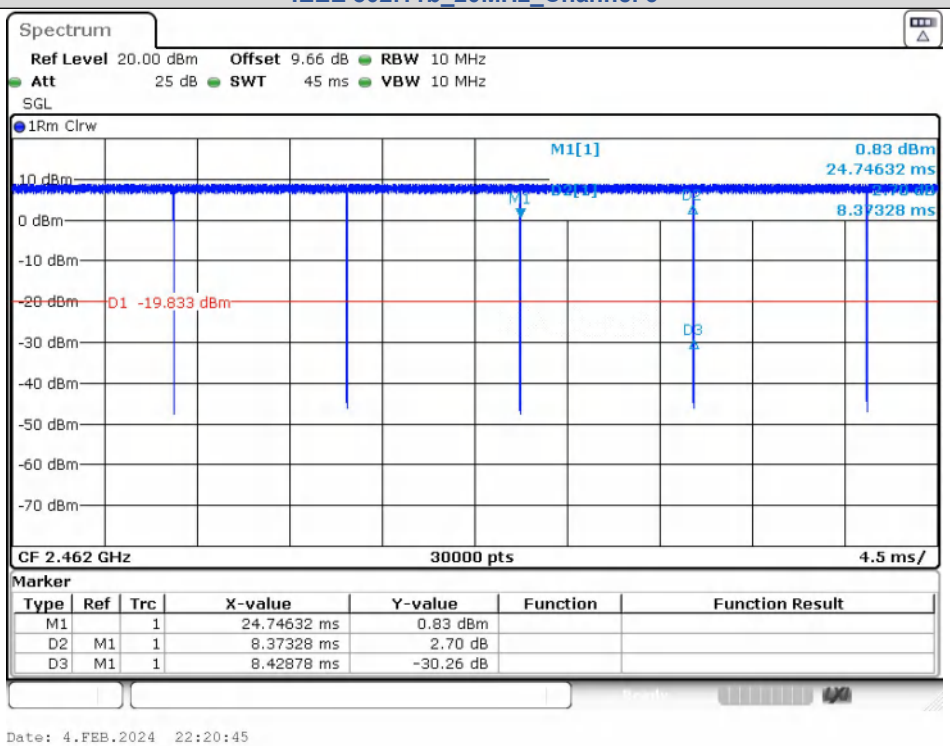
Test Graphs



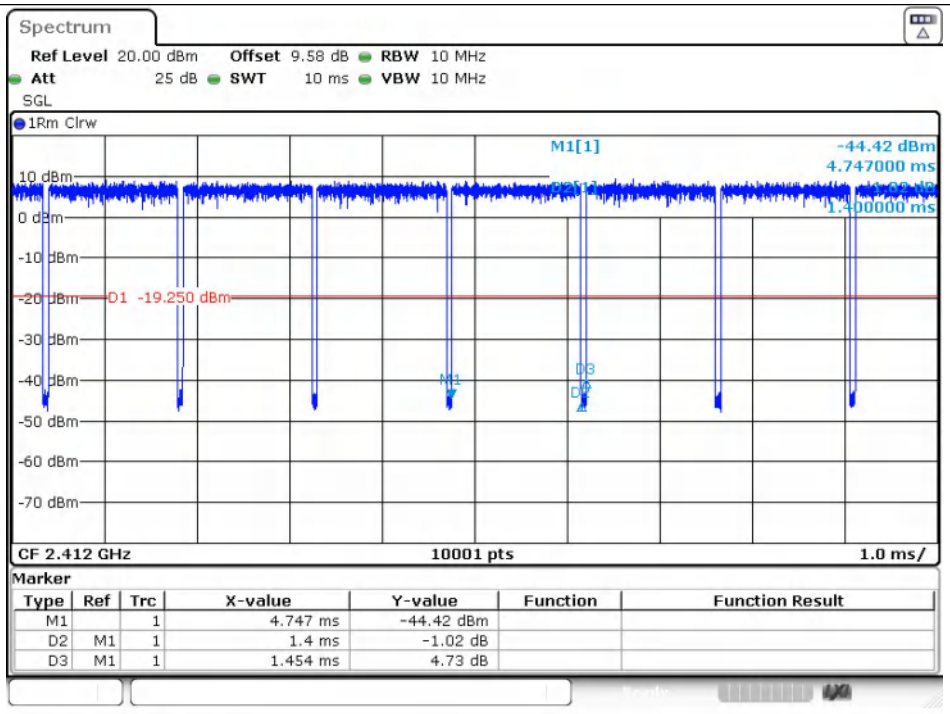
IEEE 802.11b_20MHz_Channel 1



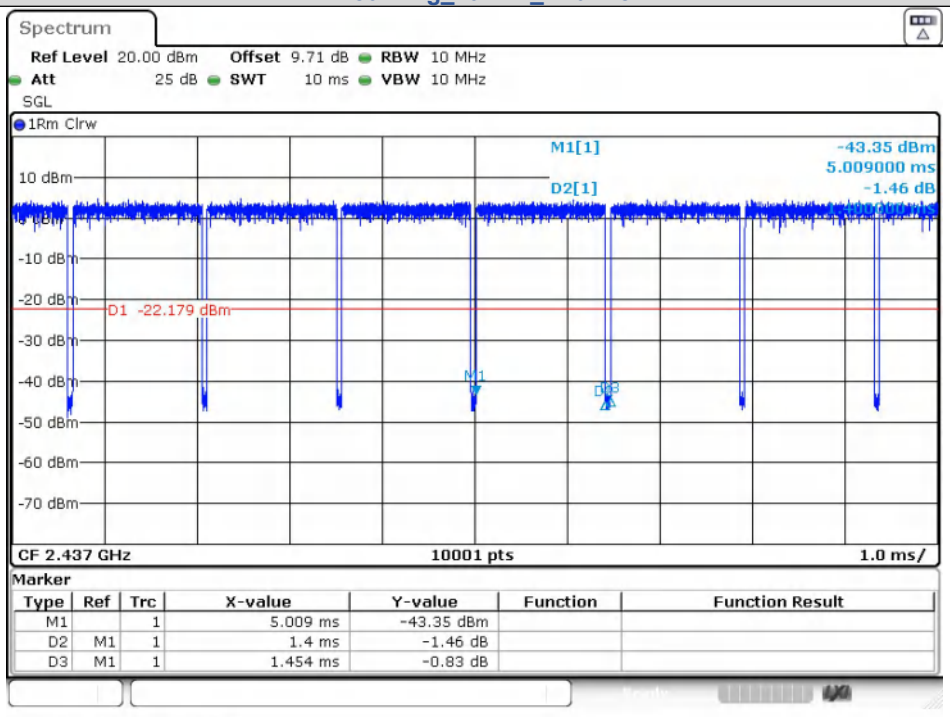
IEEE 802.11b_20MHz_Channel 6



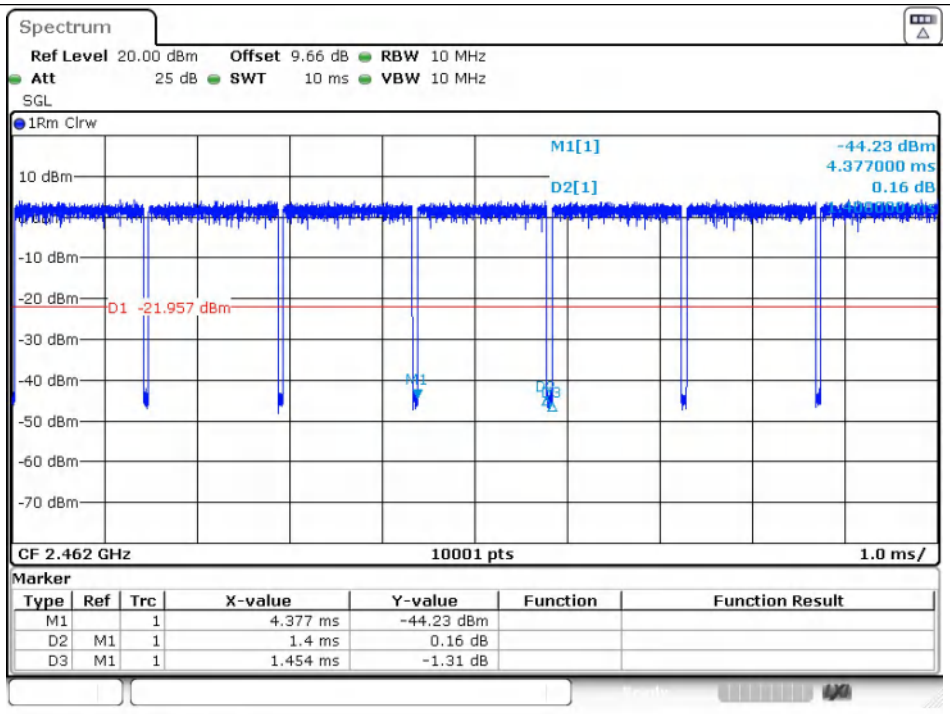
IEEE 802.11b_20MHz_Channel 11



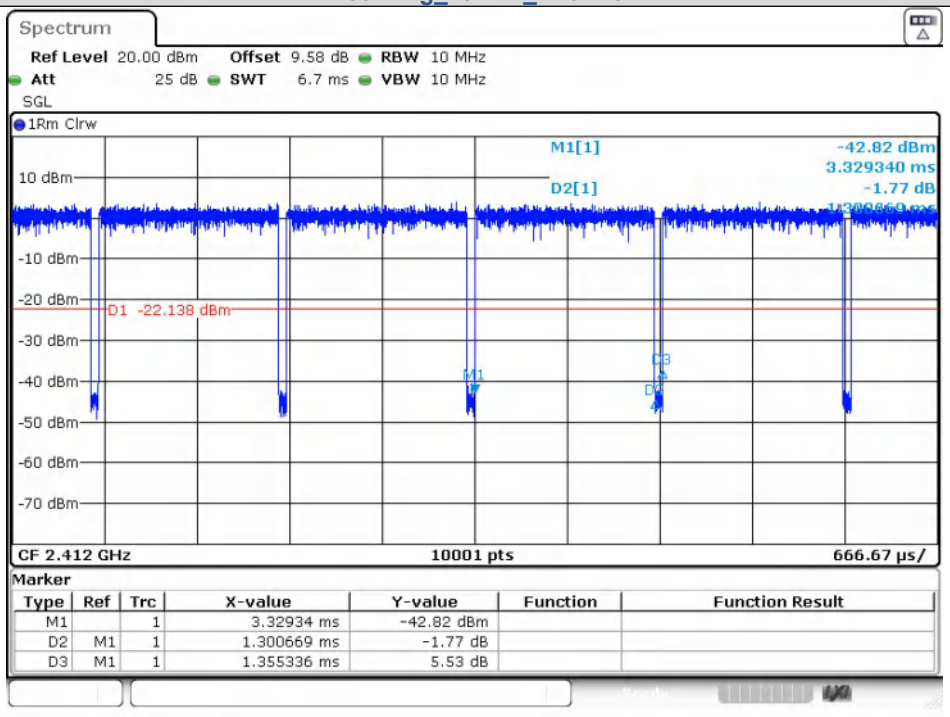
IEEE 802.11g_20MHz_Channel 1



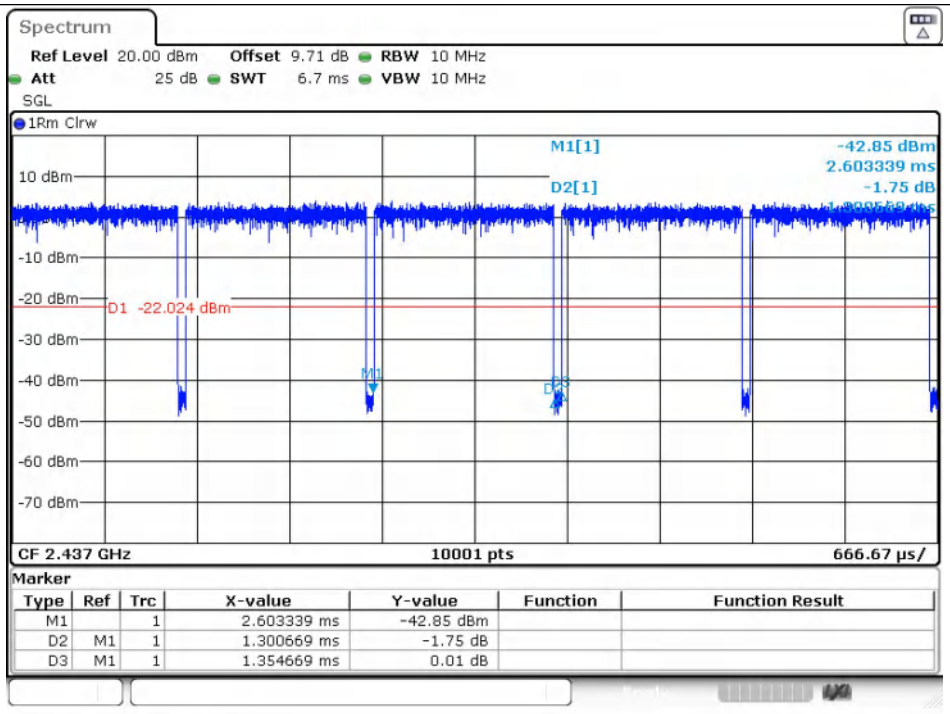
IEEE 802.11g_20MHz_Channel 6



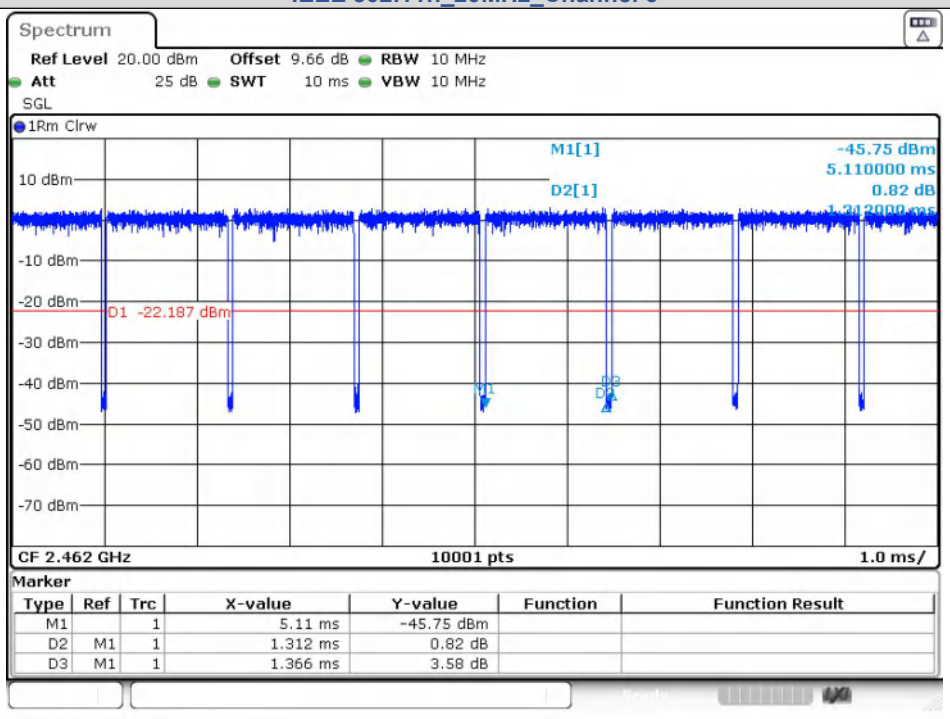
IEEE 802.11g_20MHz_Channel 11



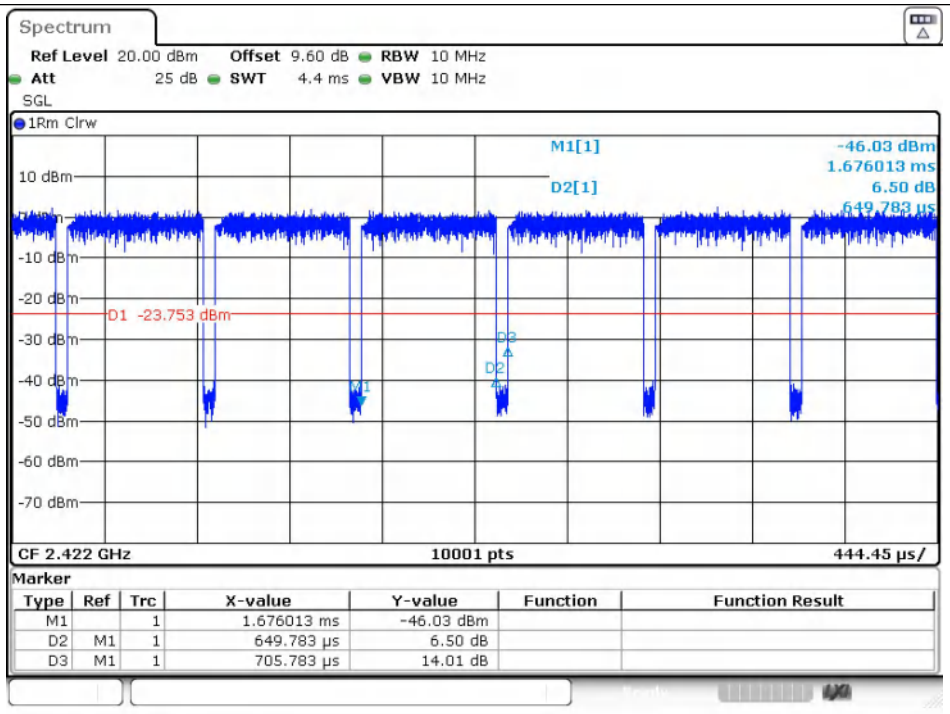
IEEE 802.11n_20MHz_Channel 1



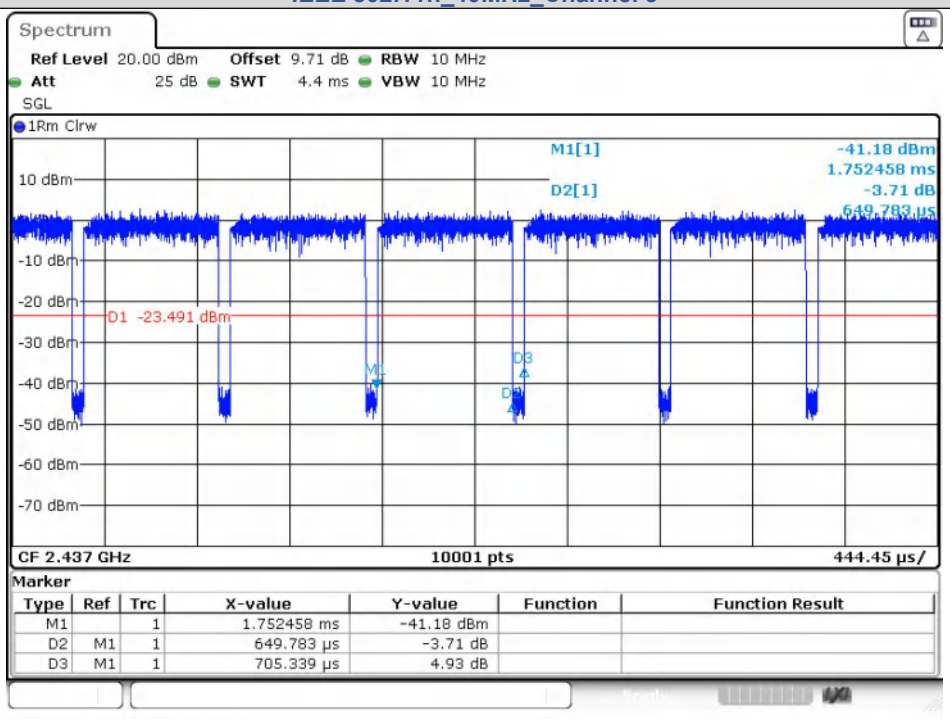
IEEE 802.11n_20MHz_Channel 6



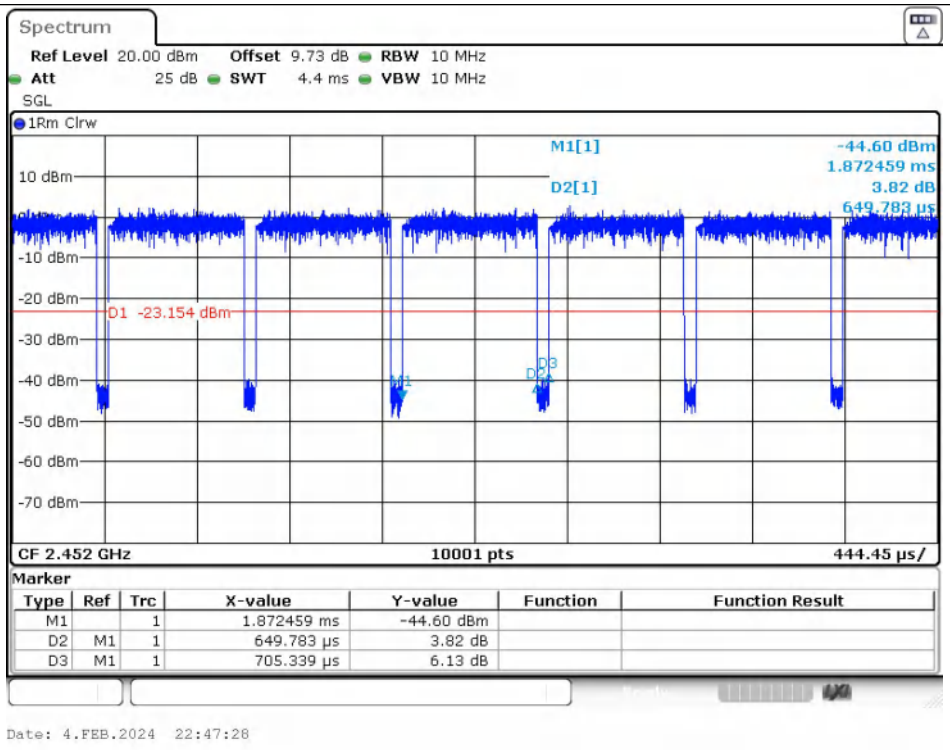
IEEE 802.11n_20MHz_Channel 11



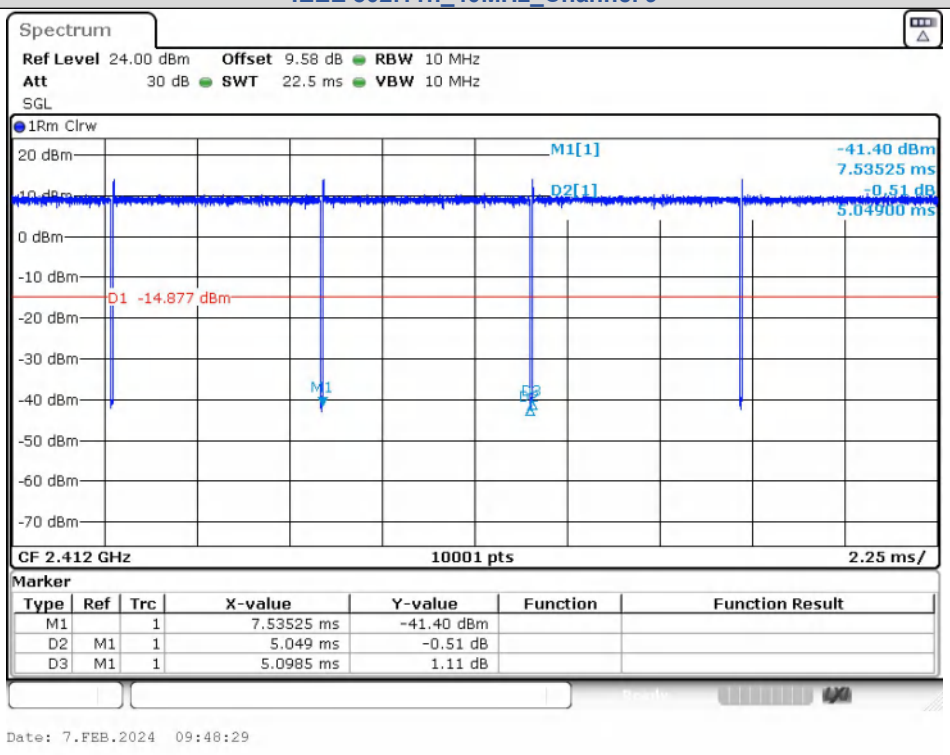
IEEE 802.11n_40MHz_Channel 3



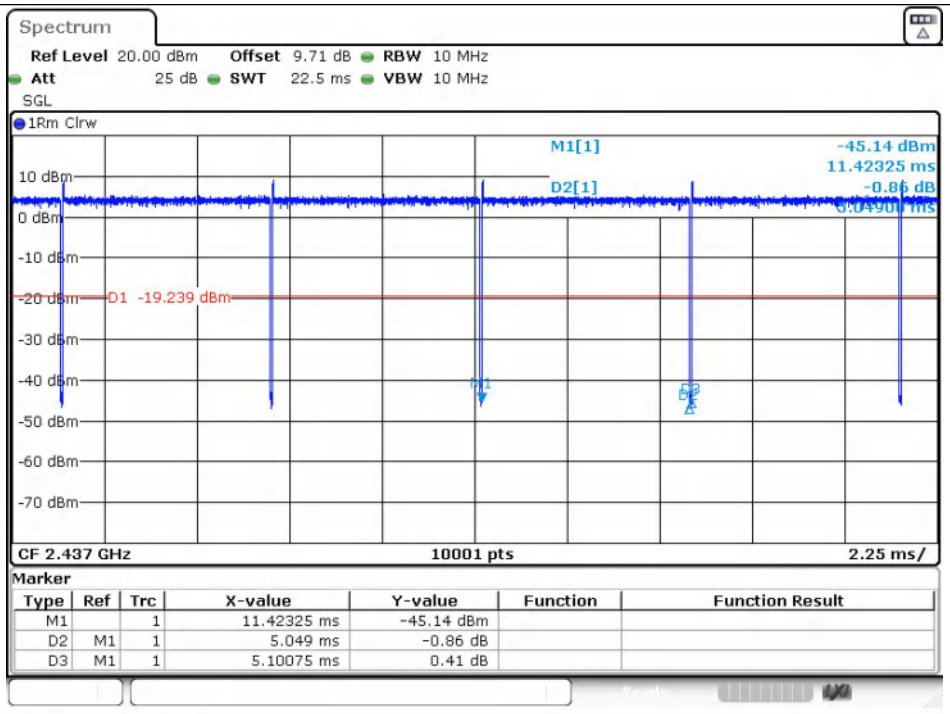
IEEE 802.11n_40MHz_Channel 6



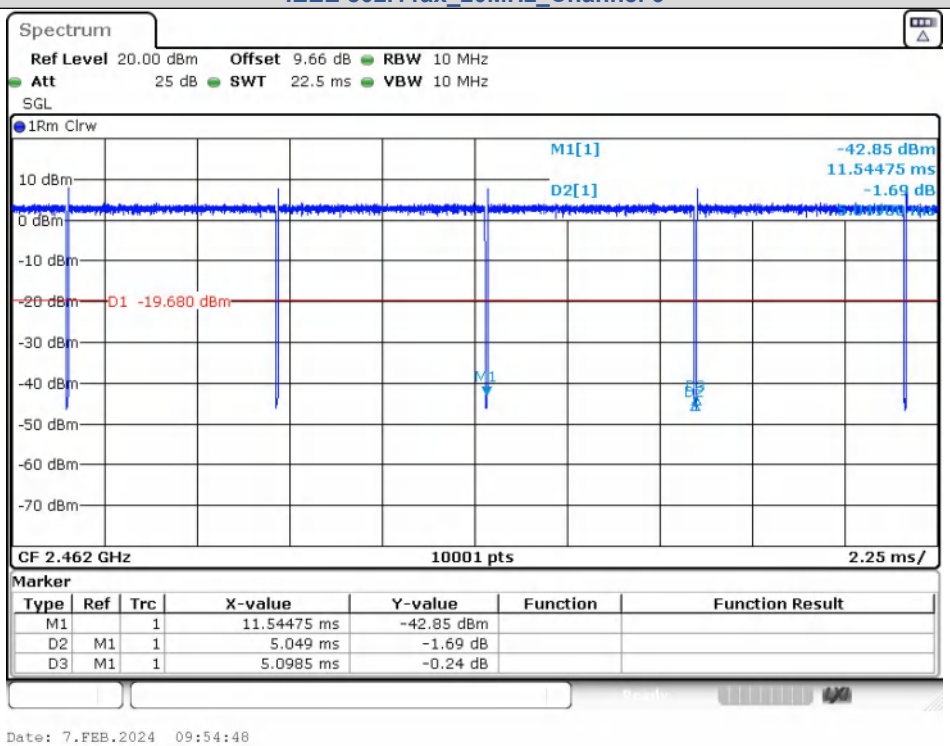
IEEE 802.11n_40MHz_Channel 9



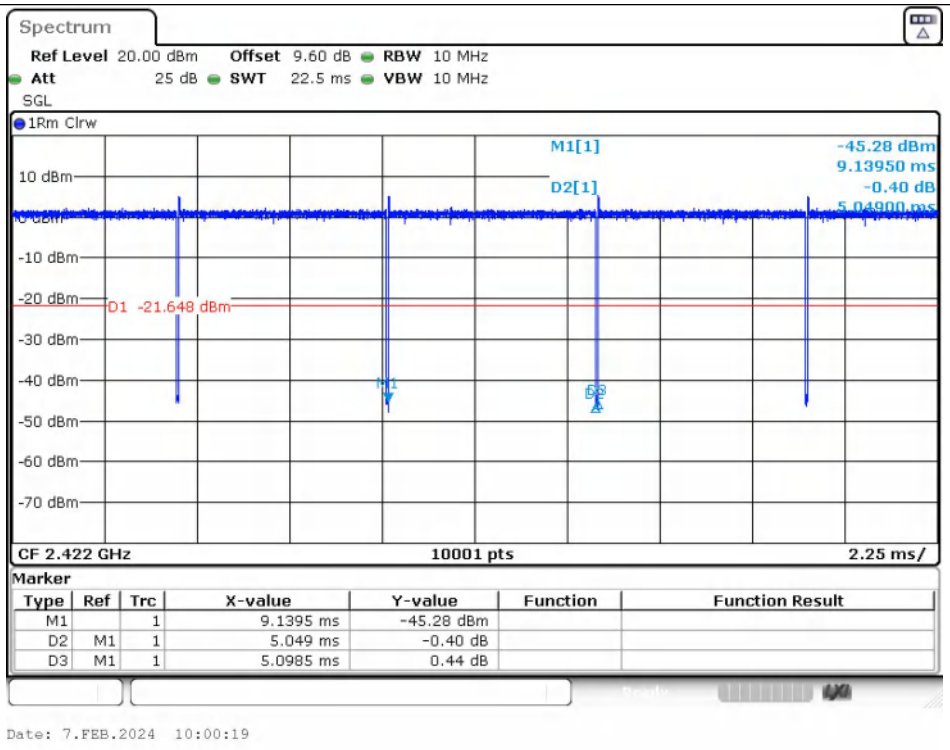
IEEE 802.11ax_20MHz_Channel 1



IEEE 802.11ax_20MHz_Channel 6



IEEE 802.11ax_20MHz_Channel 11



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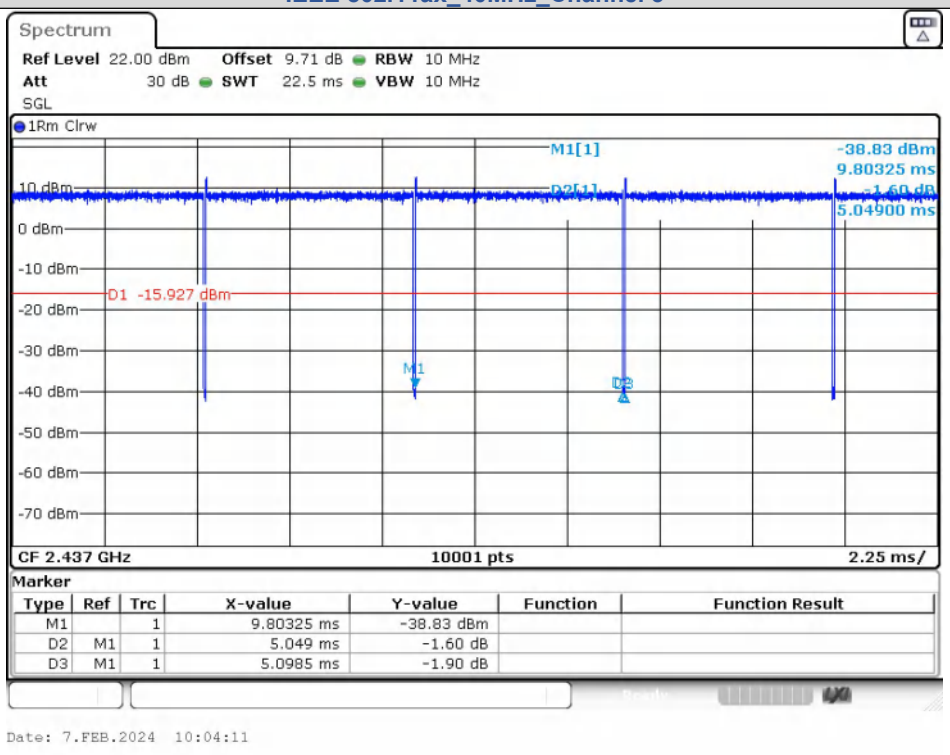
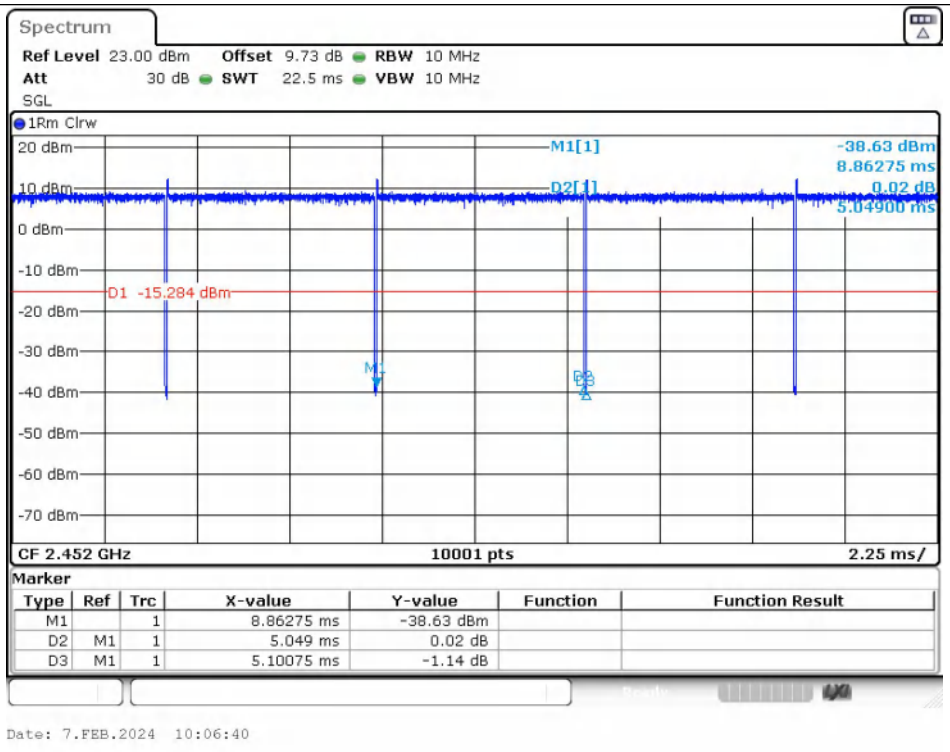


IEEE 802.11ax_40MHz_Channel 6



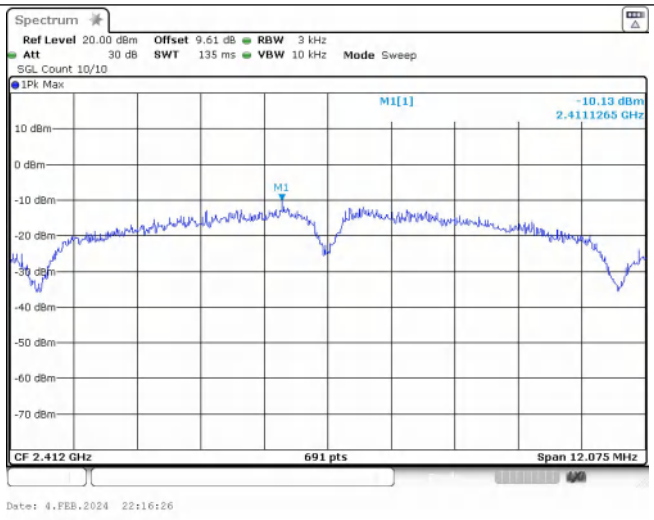
IEEE 802.11ax_40MHz_Channel 9

Power Spectral Density

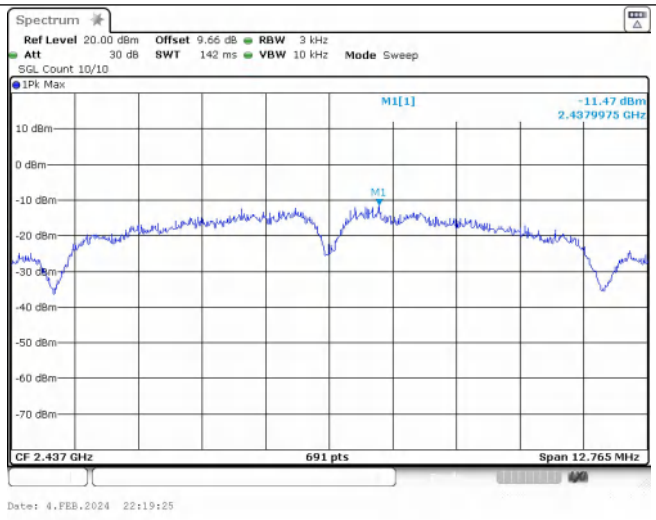
Test Result

Mode	Channel	RU & Index	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	N/A	-10.135	8	PASS
	6		-11.475		PASS
	11		-13.381		PASS
IEEE 802.11g	1		-15.515		PASS
	6		-19.993		PASS
	11		-21.263		PASS
IEEE 802.11n_20	1		-22.468		PASS
	6		-21.965		PASS
	11		-22.308		PASS
IEEE 802.11n_40	3		-24.438		PASS
	6		-24.939		PASS
	9		-24.560		PASS
IEEE 802.11ax_20	1	SU	-14.691		PASS
	6		-17.614		PASS
	11		-19.731		PASS
IEEE 802.11ax_40	3		-21.167		PASS
	6		-14.763		PASS
	9		-15.122		PASS

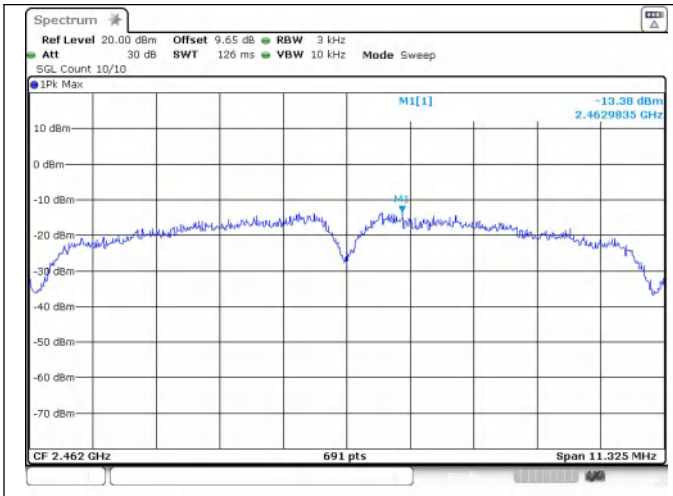
Test Graphs



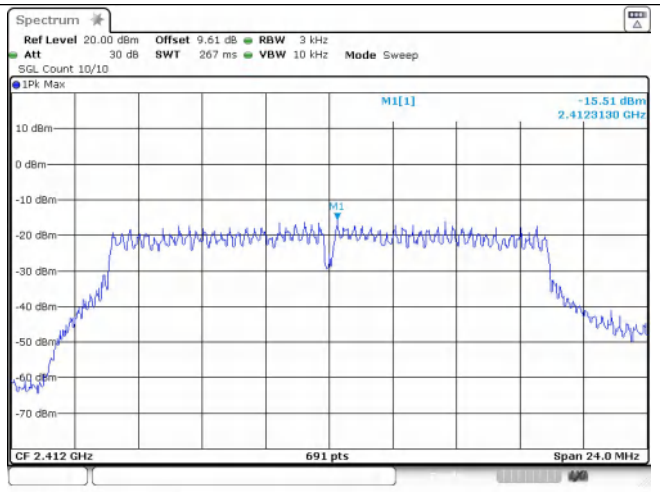
IEEE 802.11b_Channel 1_20MHz_Antenna 0



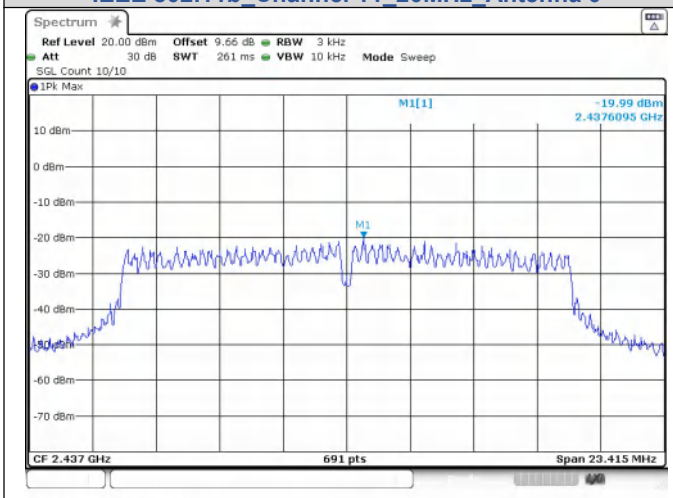
IEEE 802.11b_Channel 6_20MHz_Antenna 0



IEEE 802.11b_Channel 11_20MHz_Antenna 0



IEEE 802.11g_Channel 1_20MHz_Antenna 0



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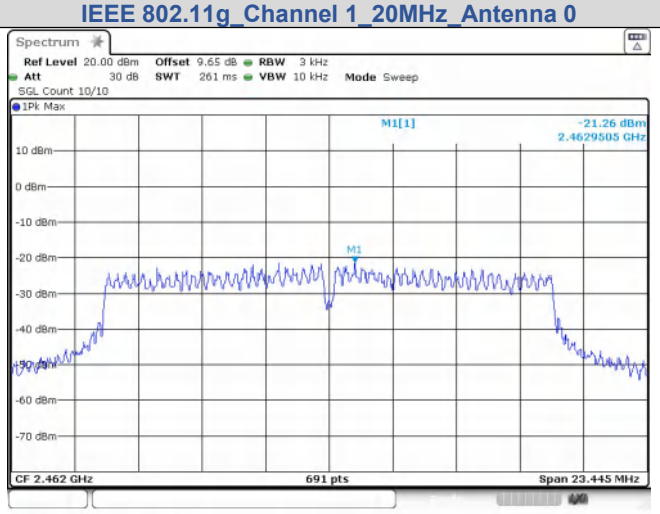

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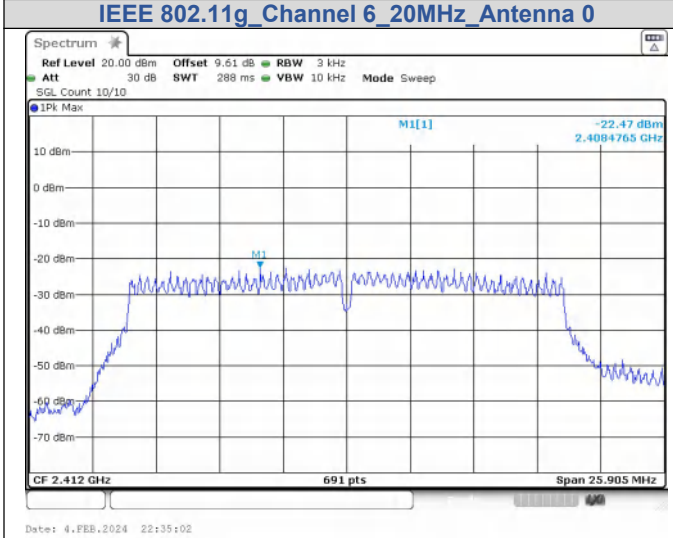

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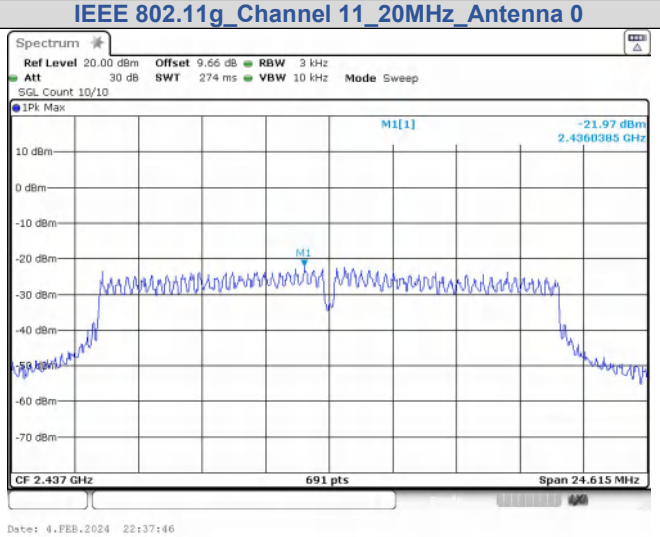
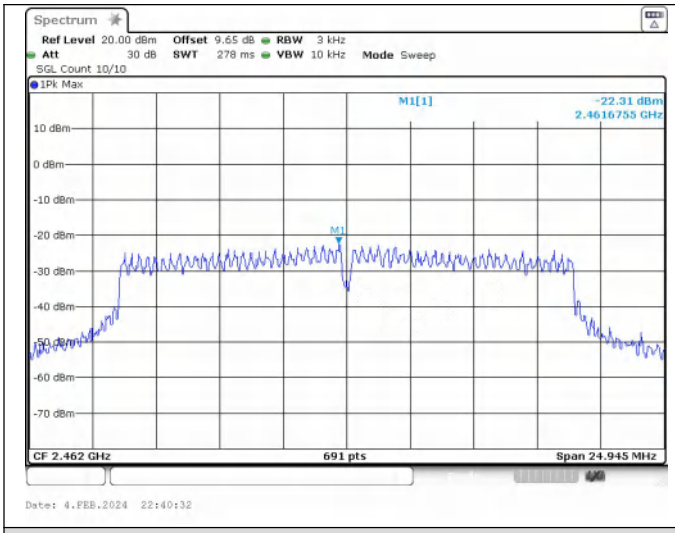
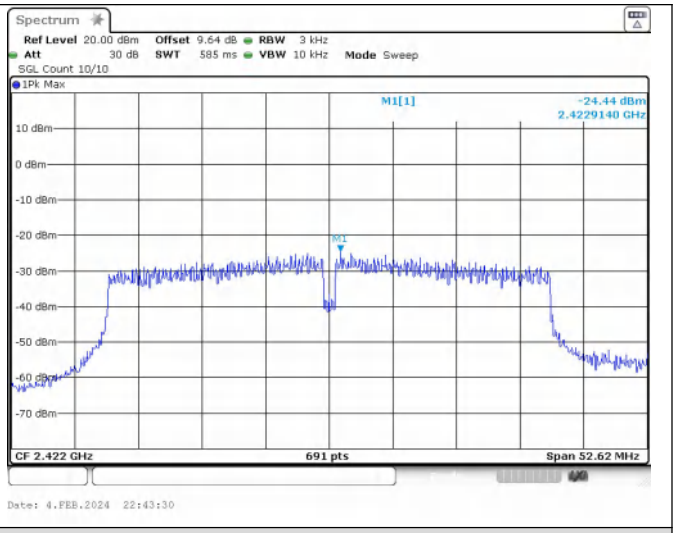


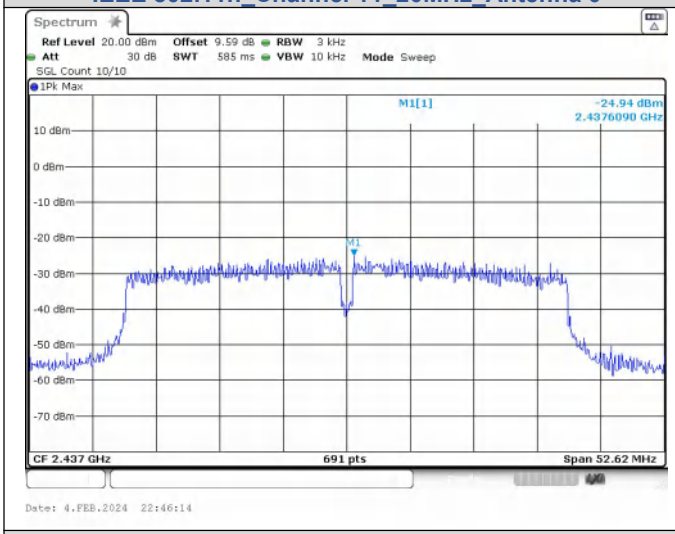
IEEE 802.11n_Channel 6_20MHz_Antenna 0



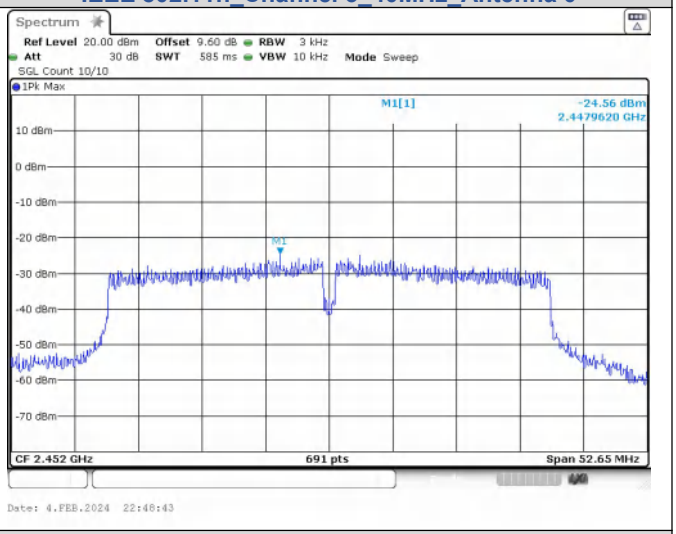
IEEE 802.11n_Channel 11_20MHz_Antenna 0



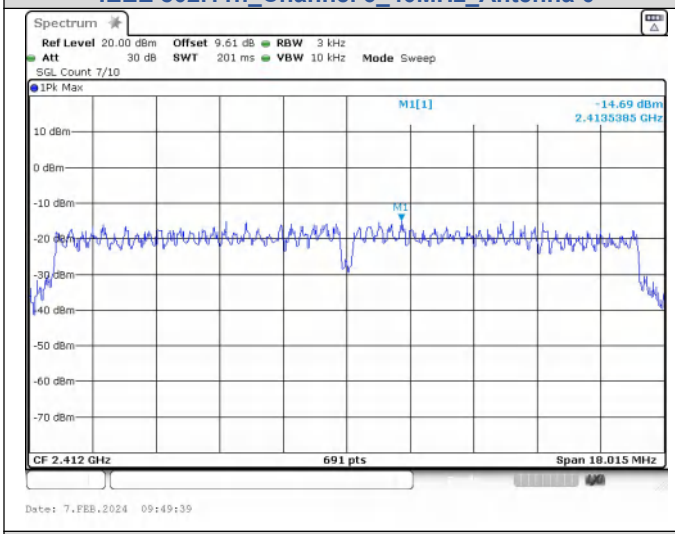
IEEE 802.11n_Channel 3_40MHz_Antenna 0



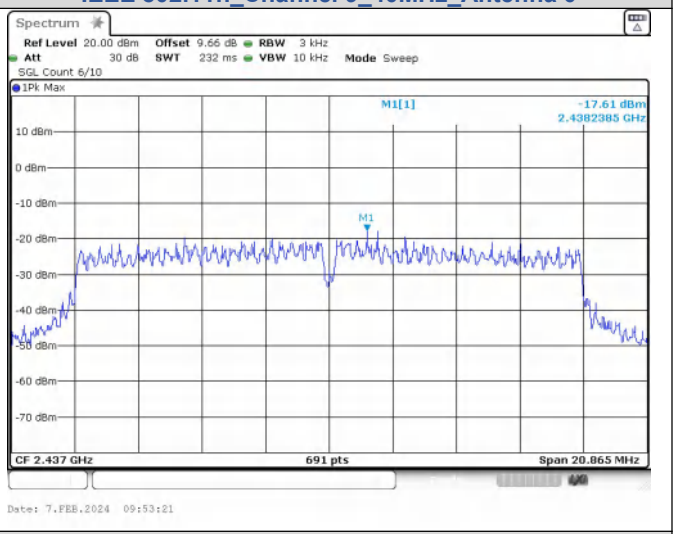
IEEE 802.11n_Channel 6_40MHz_Antenna 0



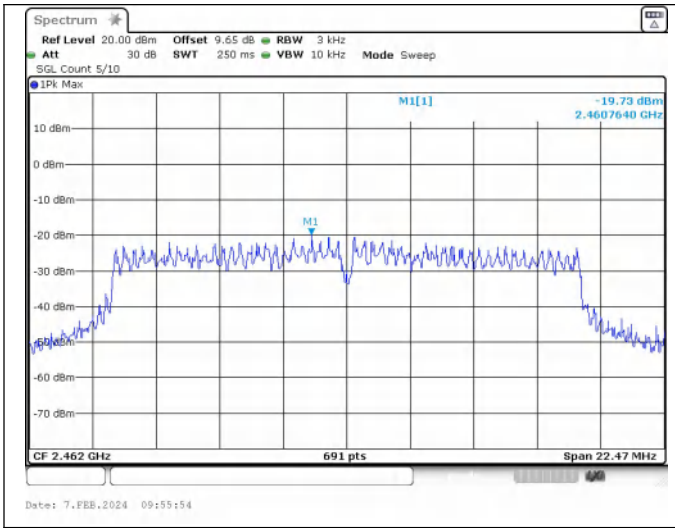
IEEE 802.11n_Channel 9_40MHz_Antenna 0



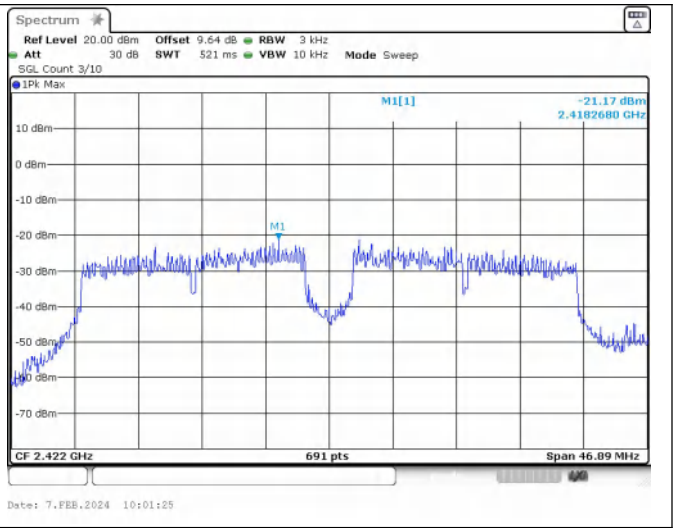
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



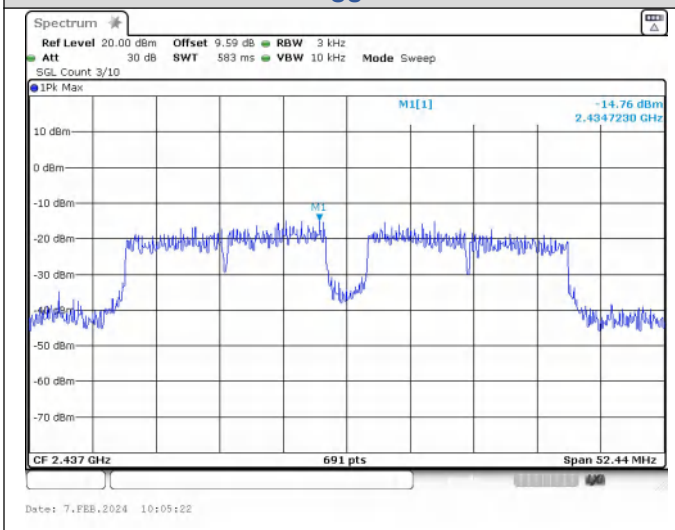
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



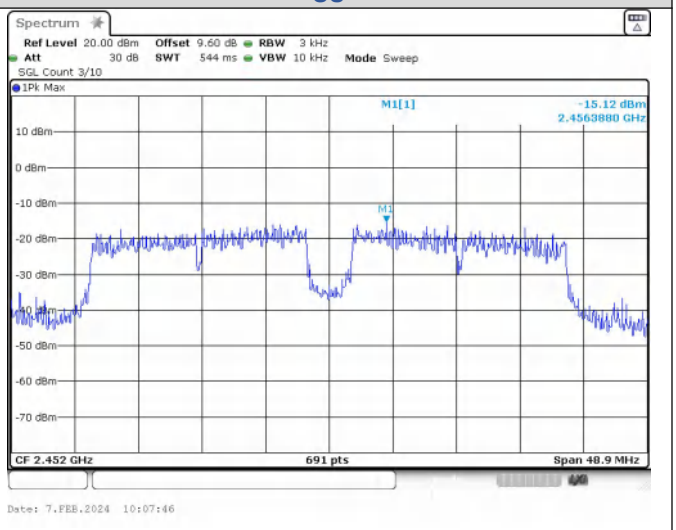
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU