

Appendix A _ Conducted Test Data

1. Conducted Peak Output Power

Test Result

Conducted peak output power

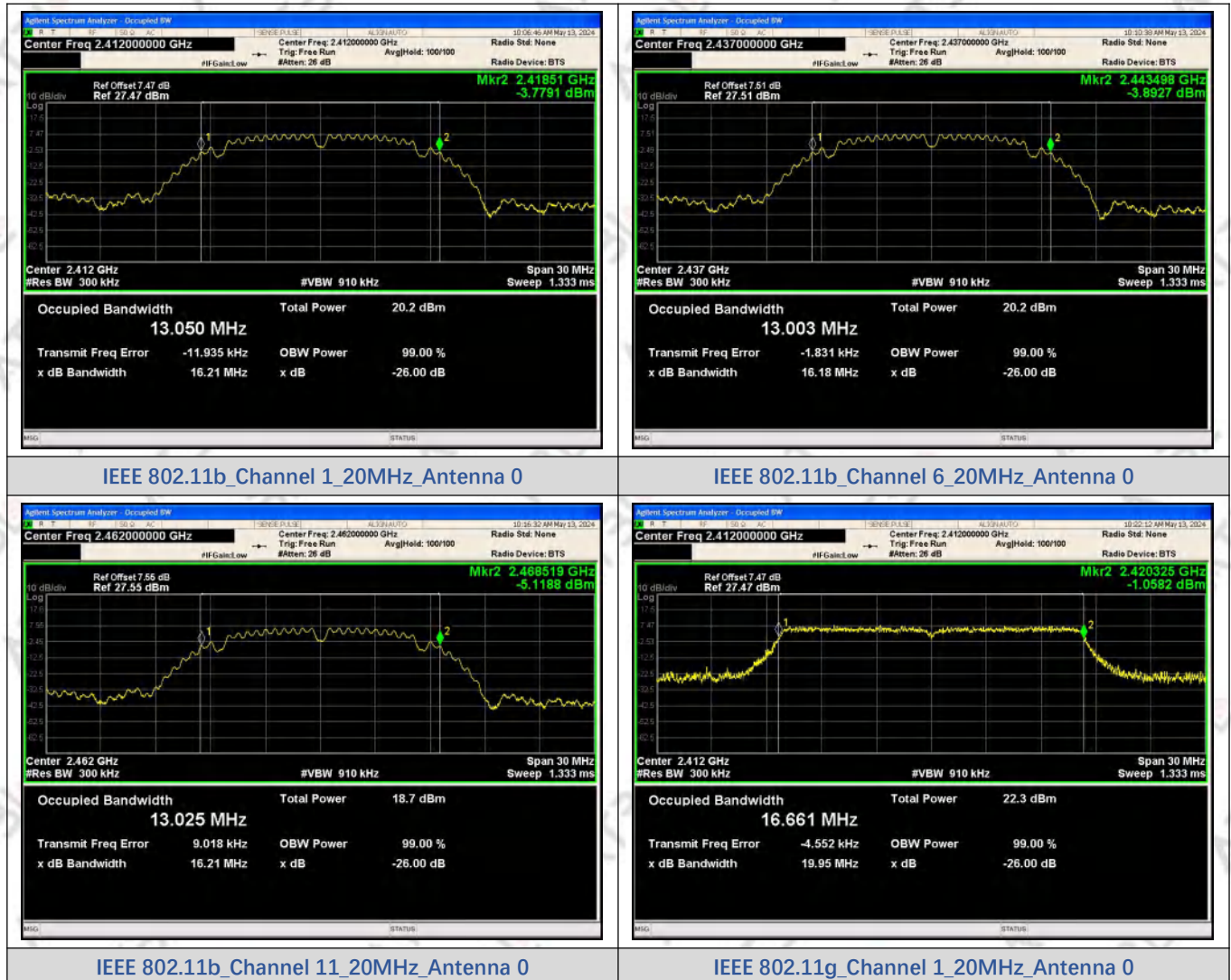
Mode	Channel	Ant. 0 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	19.08	N/A	30	PASS
	6	18.98	N/A	30	PASS
	11	17.83	N/A	30	PASS
IEEE 802.11g	1	23.90	N/A	30	PASS
	6	23.48	N/A	30	PASS
	11	22.64	N/A	30	PASS
IEEE 802.11n_20	1	23.35	N/A	30	PASS
	6	23.29	N/A	30	PASS
	11	22.22	N/A	30	PASS

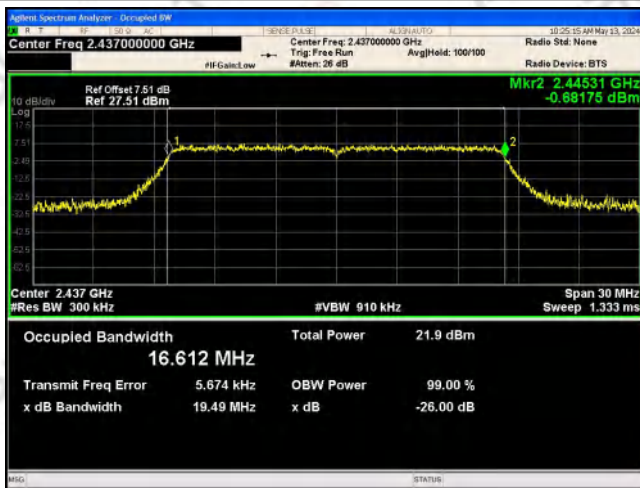
2.99% Bandwidth

Test Result

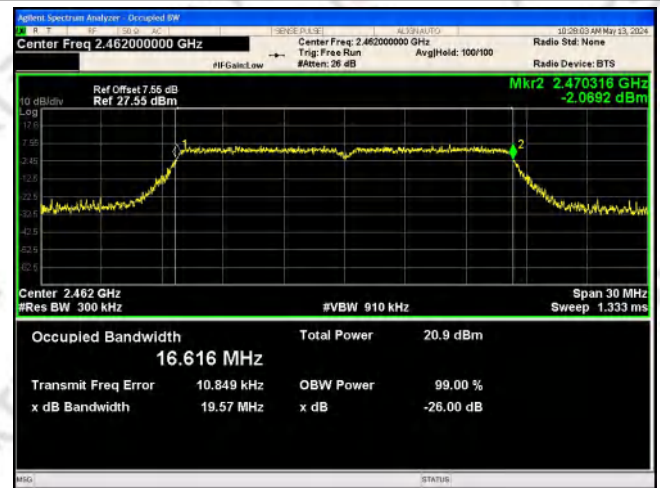
Mode	Channel	Ant.	99% BW (MHz)
IEEE 802.11b	1	0	13.050
	6		13.003
	11		13.025
IEEE 802.11g	1		16.661
	6		16.612
	11		16.616
IEEE 802.11n_20	1		17.714
	6		17.677
	11		17.676

Test Graphs

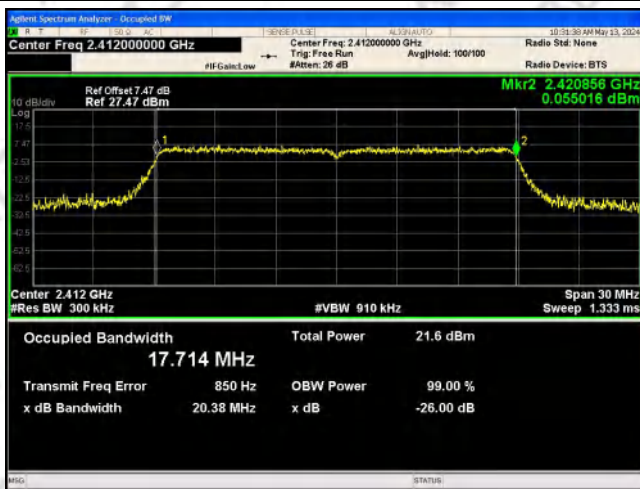




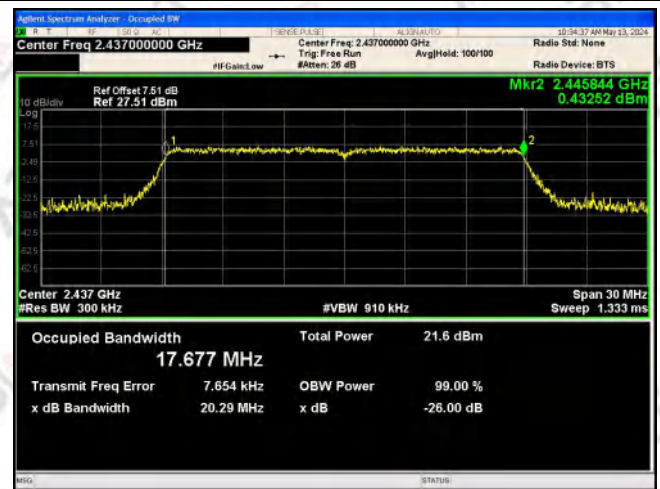
IEEE 802.11g_Channel 6_20MHz_Antenna 0



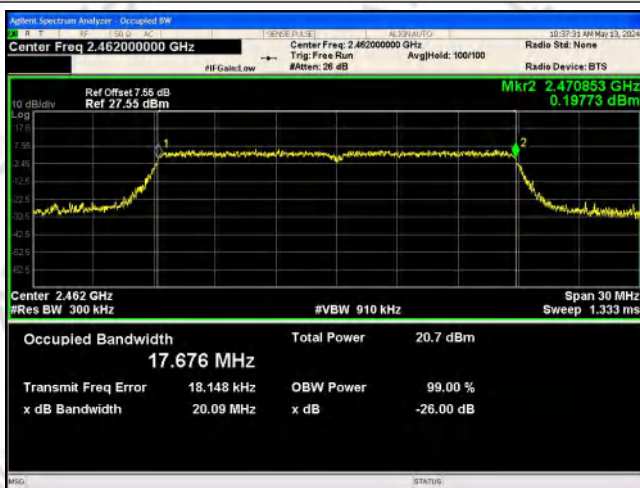
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



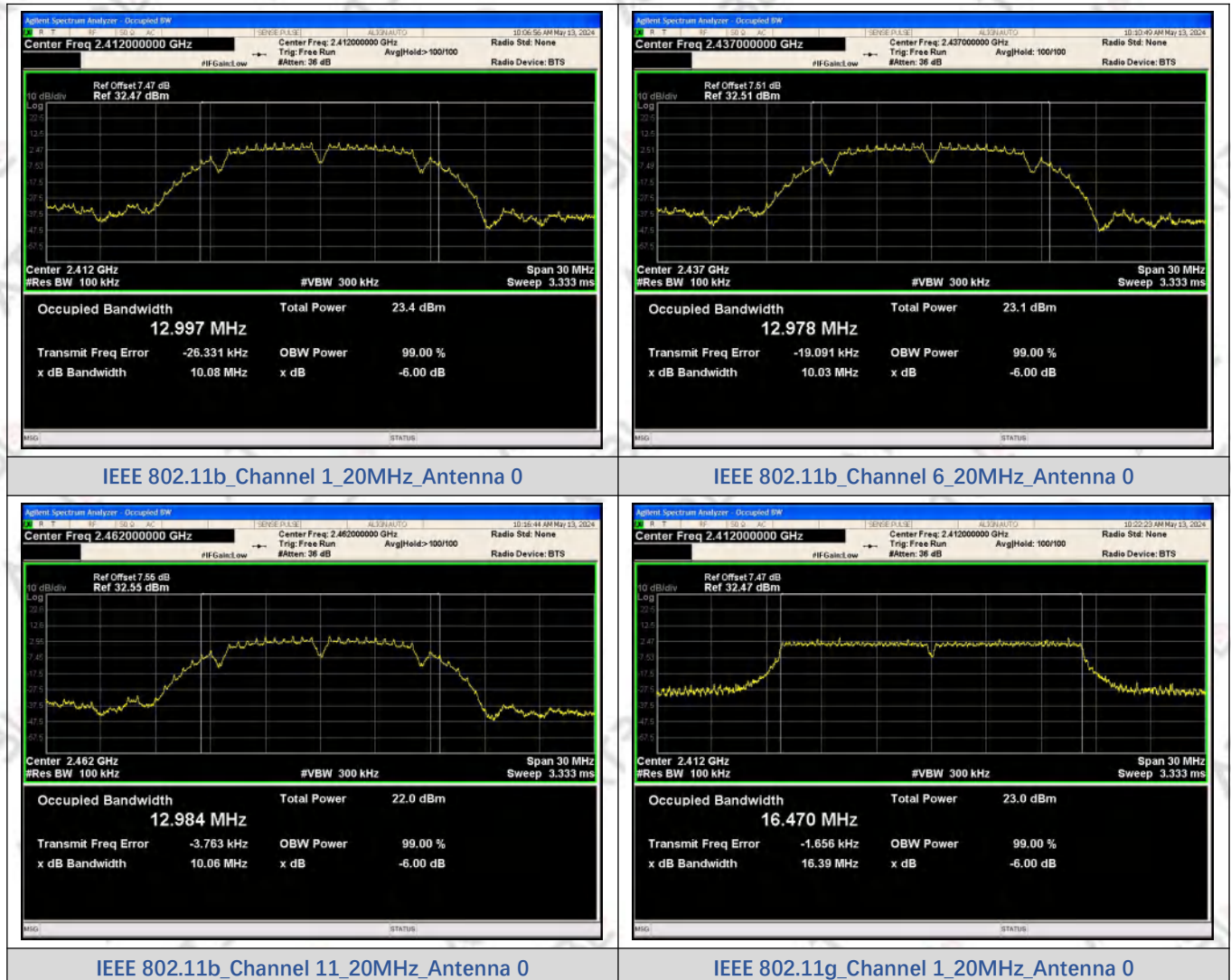
IEEE 802.11n_Channel 11_20MHz_Antenna 0

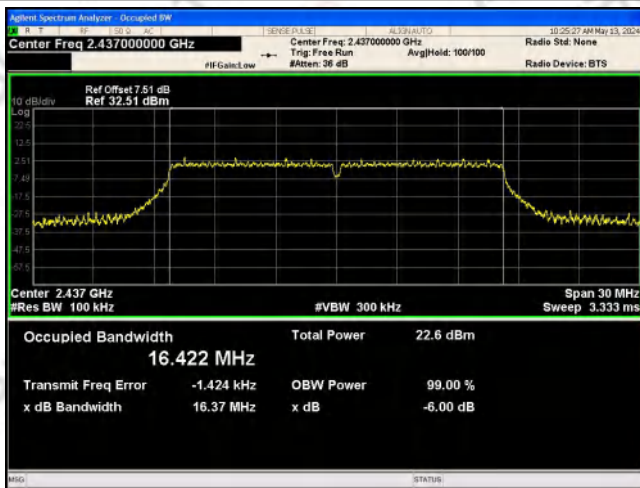
3.6dB Bandwidth

Test Result

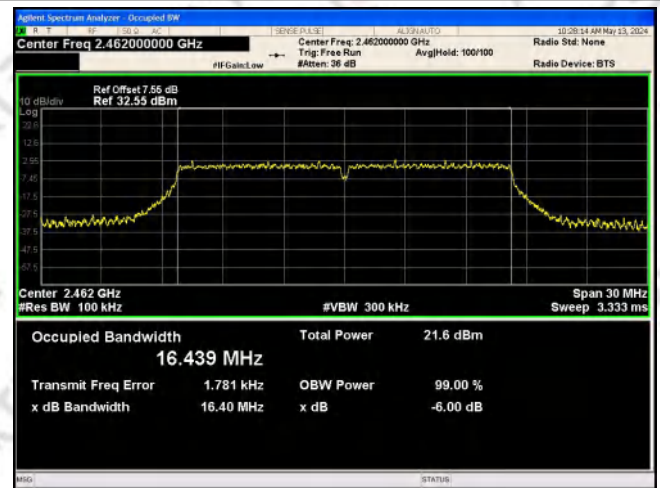
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	10.08	0.5	PASS
	6		2437	10.03		PASS
	11		2462	10.06		PASS
IEEE 802.11g	1		2412	16.39		PASS
	6		2437	16.37		PASS
	11		2462	16.40		PASS
IEEE 802.11n_20	1		2412	17.62		PASS
	6		2437	17.60		PASS
	11		2462	17.61		PASS

Test Graphs

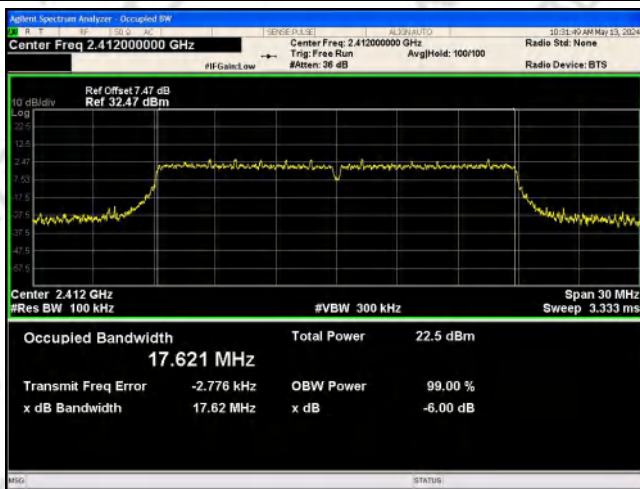




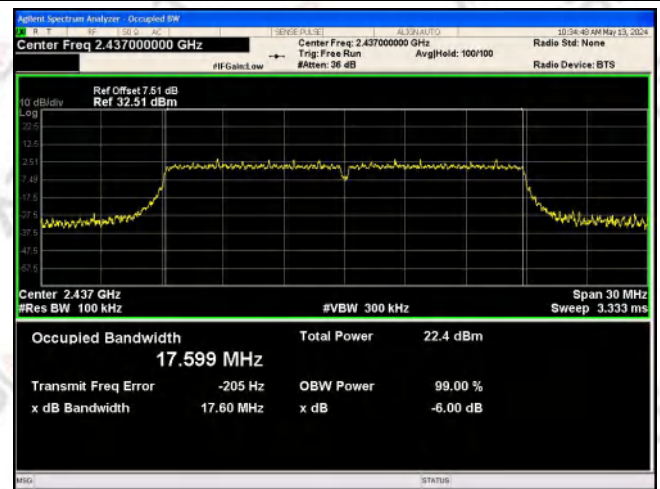
IEEE 802.11g_Channel 6_20MHz_Antenna 0



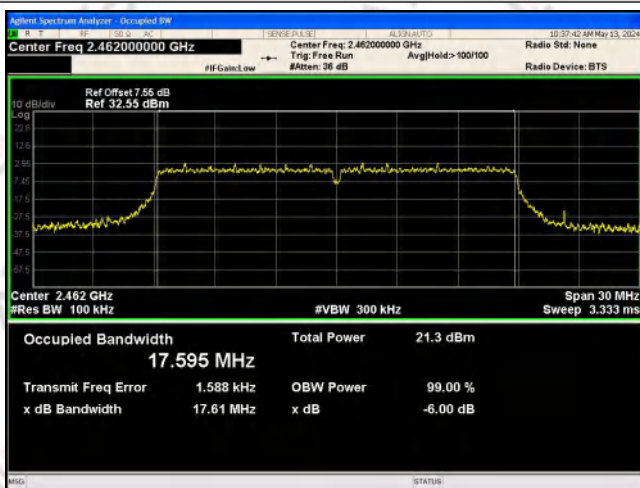
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

4. 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	2400.00	-39.662	-12.81	-26.852	PASS
			2396.97	-30.485	-12.81	-17.675	PASS
			4823.70	-46.132	-12.81	-33.322	PASS
			7235.30	-58.930	-12.81	-46.120	PASS
			9664.90	-59.656	-12.81	-46.846	PASS
			24892.0	-45.176	-12.81	-32.366	PASS
	6		4874.30	-47.248	-12.83	-34.418	PASS
			7323.92	-58.199	-12.83	-45.369	PASS
			9747.94	-60.677	-12.83	-47.847	PASS
			24802.7	-45.045	-12.83	-32.215	PASS
	11		2483.50	-45.559	-13.93	-31.629	PASS
			4924.24	-49.285	-13.93	-35.355	PASS
			7386.97	-59.398	-13.93	-45.468	PASS
			9840.33	-60.358	-13.93	-46.428	PASS
			24322.0	-44.802	-13.93	-30.872	PASS
IEEE 802.11g	1		2400.00	-26.286	-15.27	-11.016	PASS
			2398.27	-25.862	-15.27	-10.592	PASS
			4825.60	-55.748	-15.27	-40.478	PASS
			7239.00	-58.335	-15.27	-43.065	PASS
			9645.60	-59.842	-15.27	-44.572	PASS
			24863.9	-45.893	-15.27	-30.623	PASS
	6		4866.81	-56.797	-15.36	-41.437	PASS
			7303.32	-58.617	-15.36	-43.257	PASS
			9743.57	-59.869	-15.36	-44.509	PASS
			24774.6	-45.347	-15.36	-29.987	PASS
	11		2483.50	-37.810	-16.2	-21.610	PASS
			4925.49	-57.081	-16.2	-40.881	PASS
			7378.85	-59.001	-16.2	-42.801	PASS
			9844.70	-59.742	-16.2	-43.542	PASS
			24897.0	-45.764	-16.2	-29.564	PASS
IEEE 802.11n_20	1		2400.00	-26.879	-15.1	-11.779	PASS
			2398.92	-25.894	-15.1	-10.794	PASS
			4825.00	-55.705	-15.1	-40.605	PASS
			7233.40	-59.531	-15.1	-44.431	PASS
			9667.40	-58.993	-15.1	-43.893	PASS
			24911.4	-45.425	-15.1	-30.325	PASS
	6		4876.80	-56.077	-15.5	-40.577	PASS

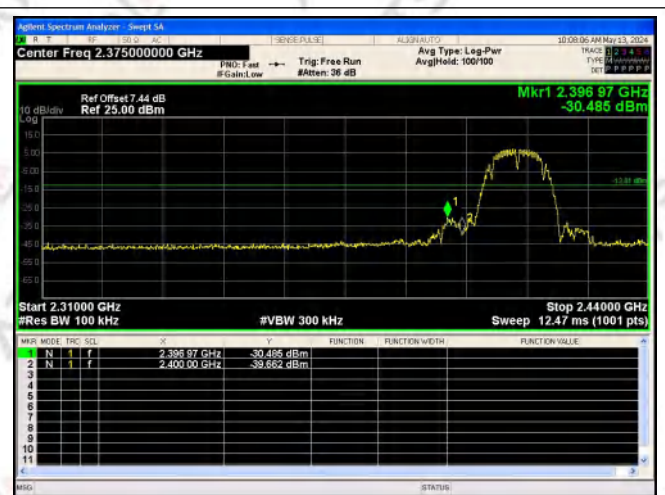
11	7312.68	-59.157	-15.5	-43.657	PASS
	9729.84	-59.907	-15.5	-44.407	PASS
	24760.3	-45.407	-15.5	-29.907	PASS
	2483.50	-34.711	-16.62	-18.091	PASS
	4935.48	-57.062	-16.62	-40.442	PASS
	7373.86	-58.953	-16.62	-42.333	PASS
	9831.59	-59.135	-16.62	-42.515	PASS
	24830.2	-45.604	-16.62	-28.984	PASS

Test Graphs



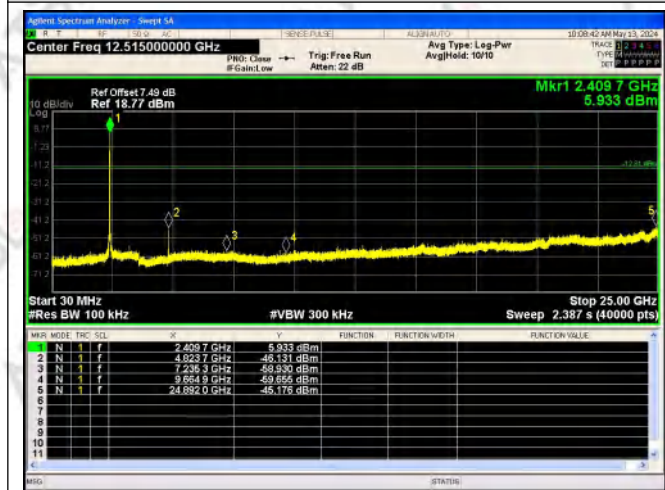
In-Band Reference Level

IEEE 802.11b_Channel 1_20MHz_Antenna 0



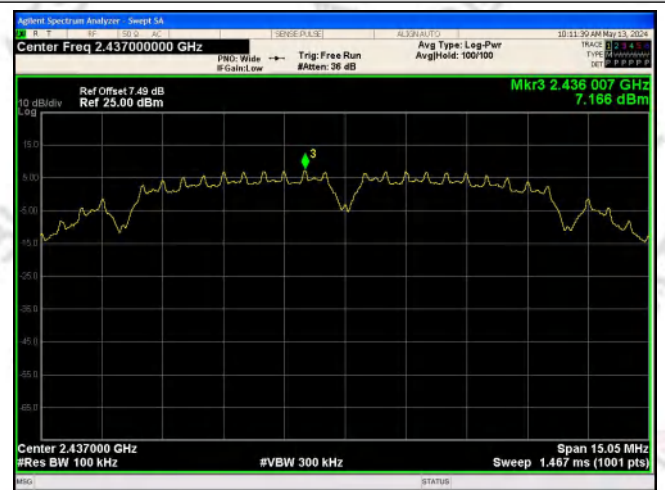
Out Of Band Emission

IEEE 802.11b_Channel 1_20MHz_Antenna 0



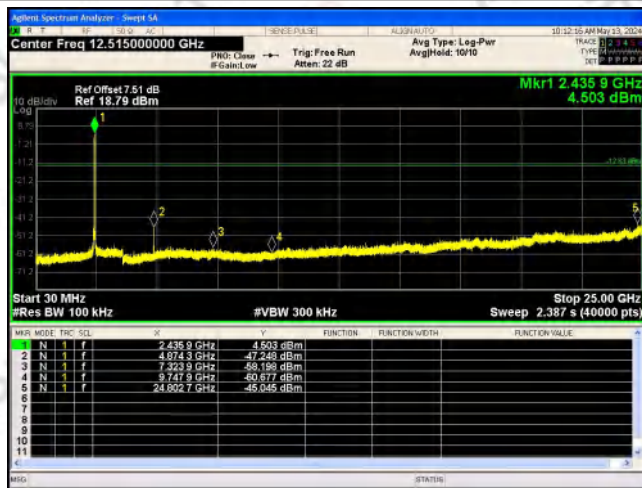
Spurious Emission

IEEE 802.11b_Channel 1_20MHz_Antenna 0



In-Band Reference Level

IEEE 802.11b_Channel 6_20MHz_Antenna 0



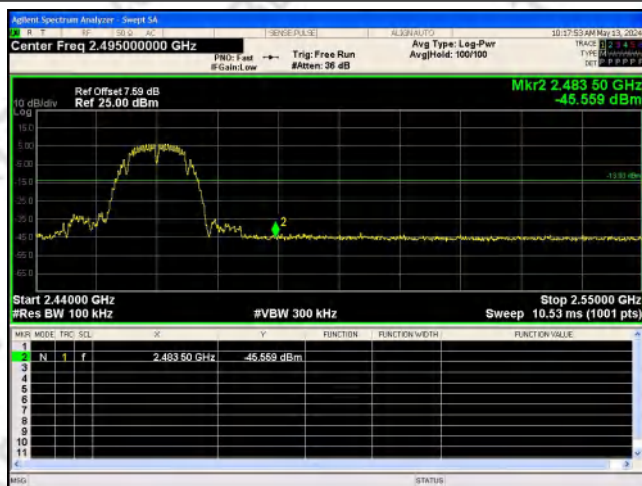
Spurious Emissions

IEEE 802.11b_Channel 6_20MHz_Antenna 0



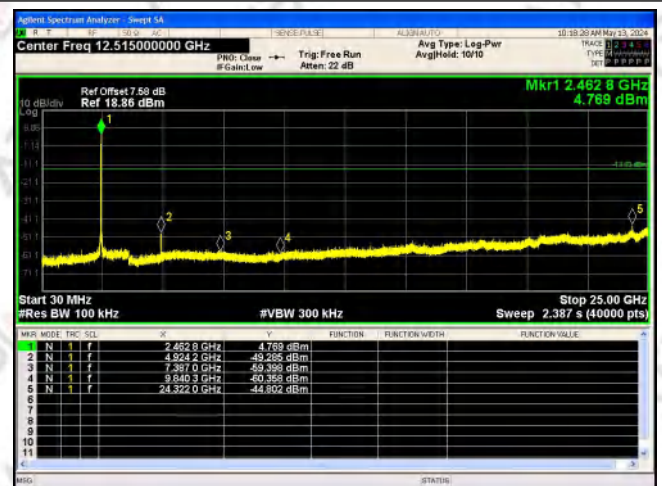
In-Band Reference Level

IEEE 802.11b_Channel 11_20MHz_Antenna 0



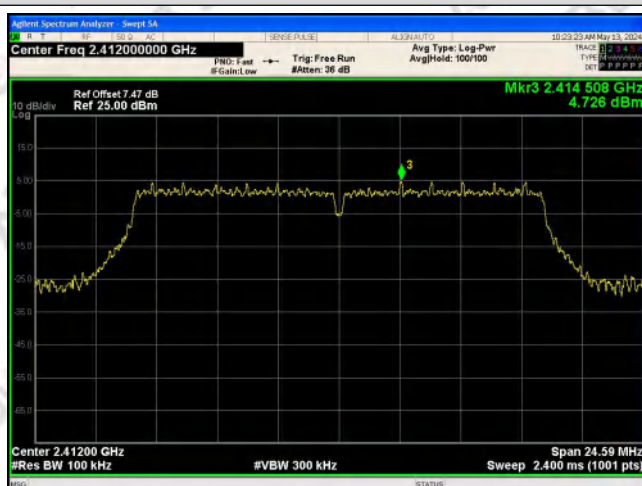
Out Of Band Emission

IEEE 802.11b_Channel 11_20MHz_Antenna 0



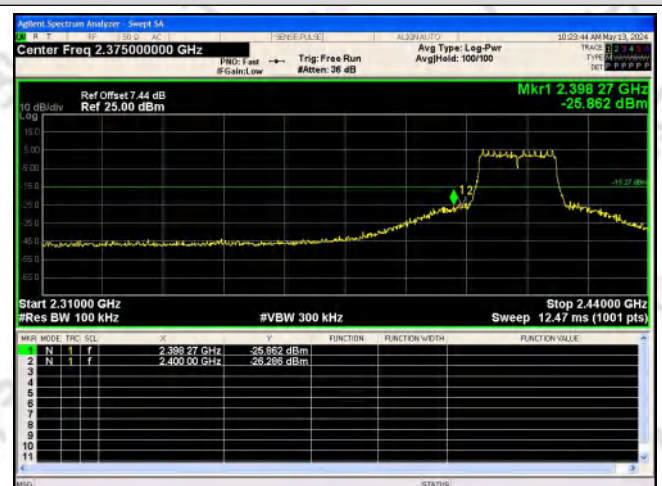
Spurious Emission

IEEE 802.11b_Channel 11_20MHz_Antenna 0



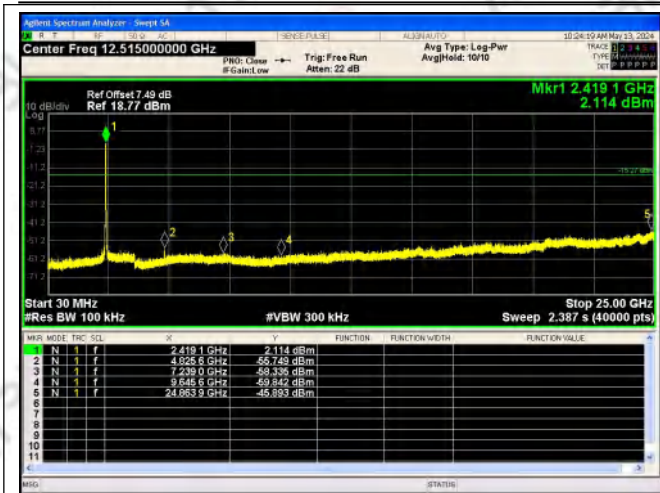
In-Band Reference Level

IEEE 802.11g_Channel 1_20MHz_Antenna 0



Out Of Band Emission

IEEE 802.11g_Channel 1_20MHz_Antenna 0



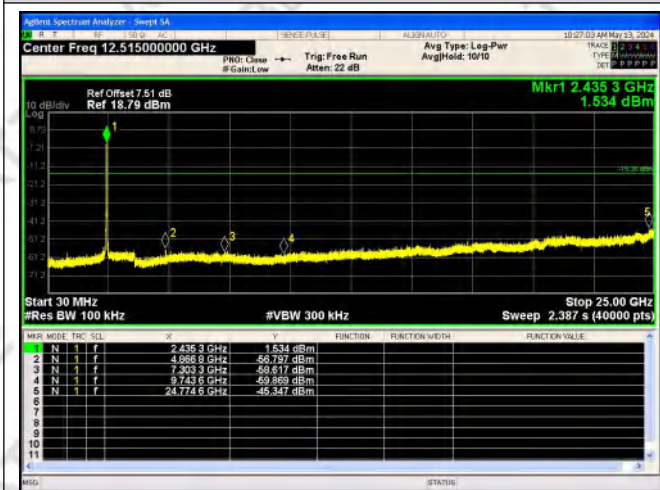
Spurious Emission

IEEE 802.11g_Channel 1_20MHz_Antenna 0



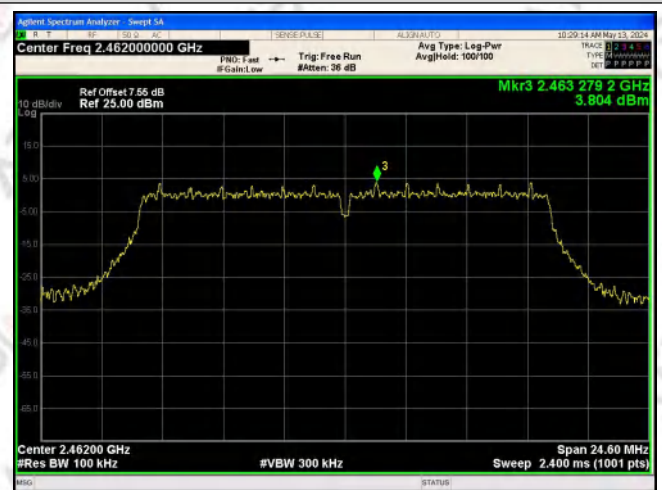
In-Band Reference Level

IEEE 802.11g_Channel 6_20MHz_Antenna 0



Spurious Emissions

IEEE 802.11g_Channel 6_20MHz_Antenna 0



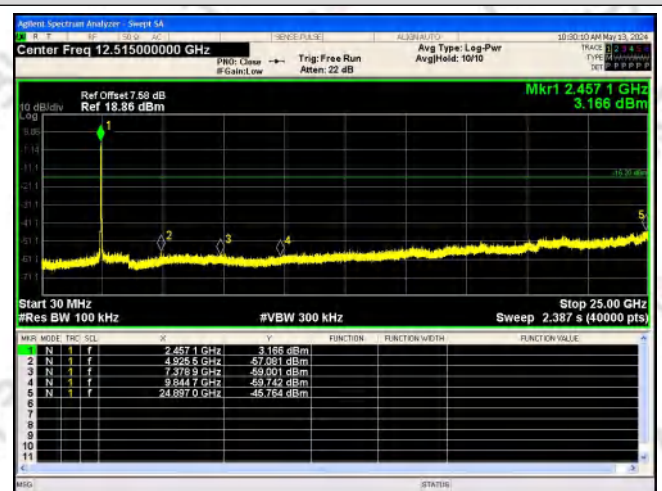
In-Band Reference Level

IEEE 802.11g_Channel 11_20MHz_Antenna 0



Out Of Band Emission

IEEE 802.11g_Channel 11_20MHz_Antenna 0

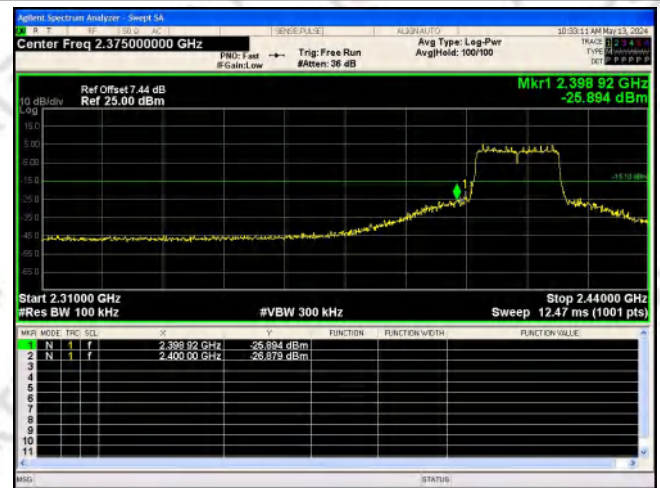


Spurious Emission

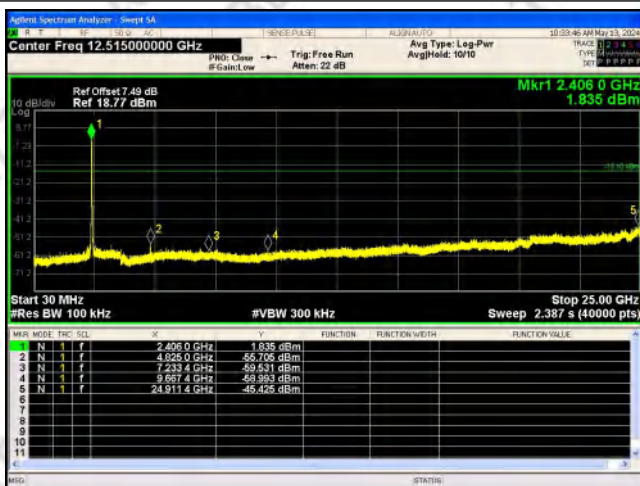
IEEE 802.11g_Channel 11_20MHz_Antenna 0



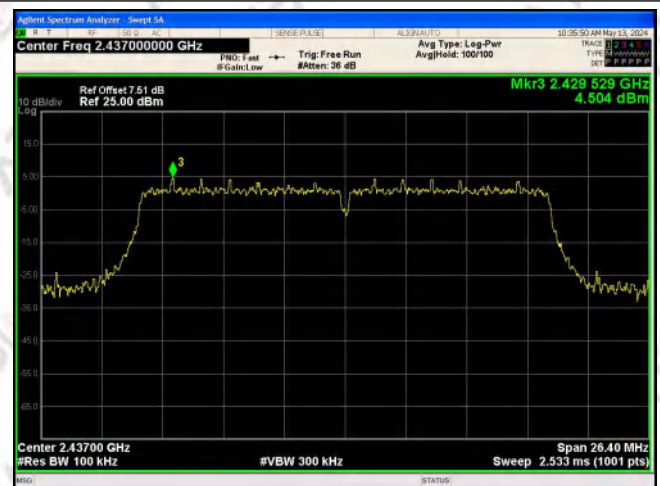
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



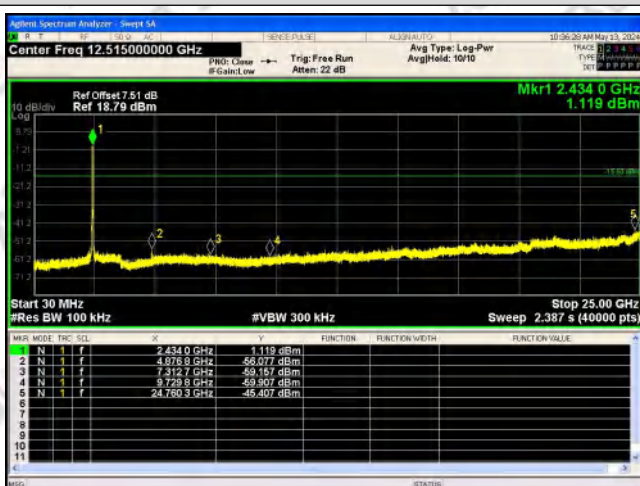
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



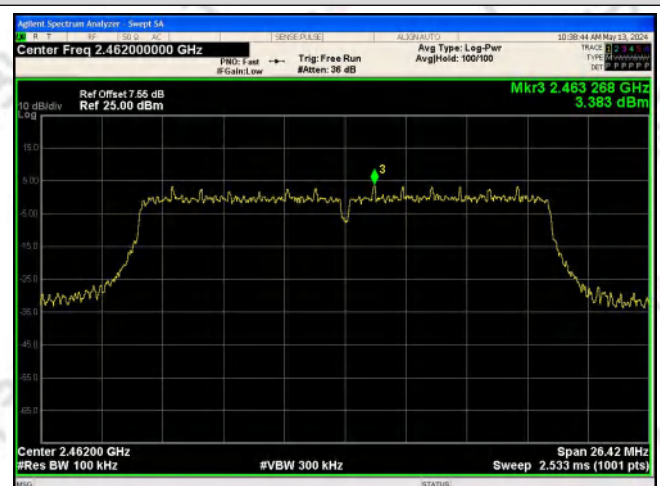
Spurious Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



Spurious Emissions
IEEE 802.11n_Channel 6_20MHz_Antenna 0

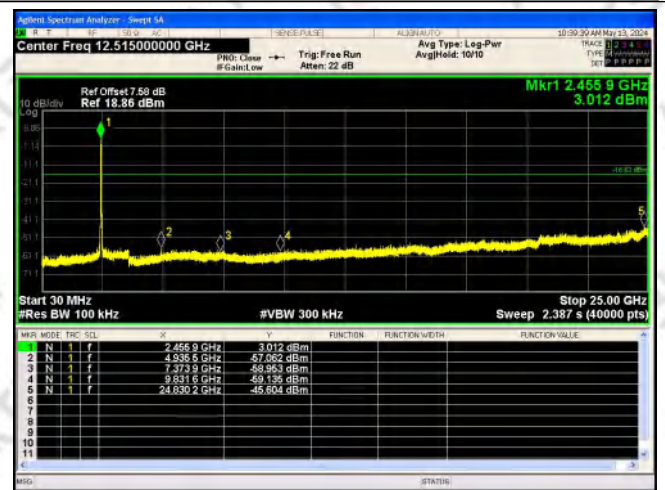


In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Out Of Band Emission

IEEE 802.11n_Channel 11_20MHz_Antenna 0



Spurious Emission

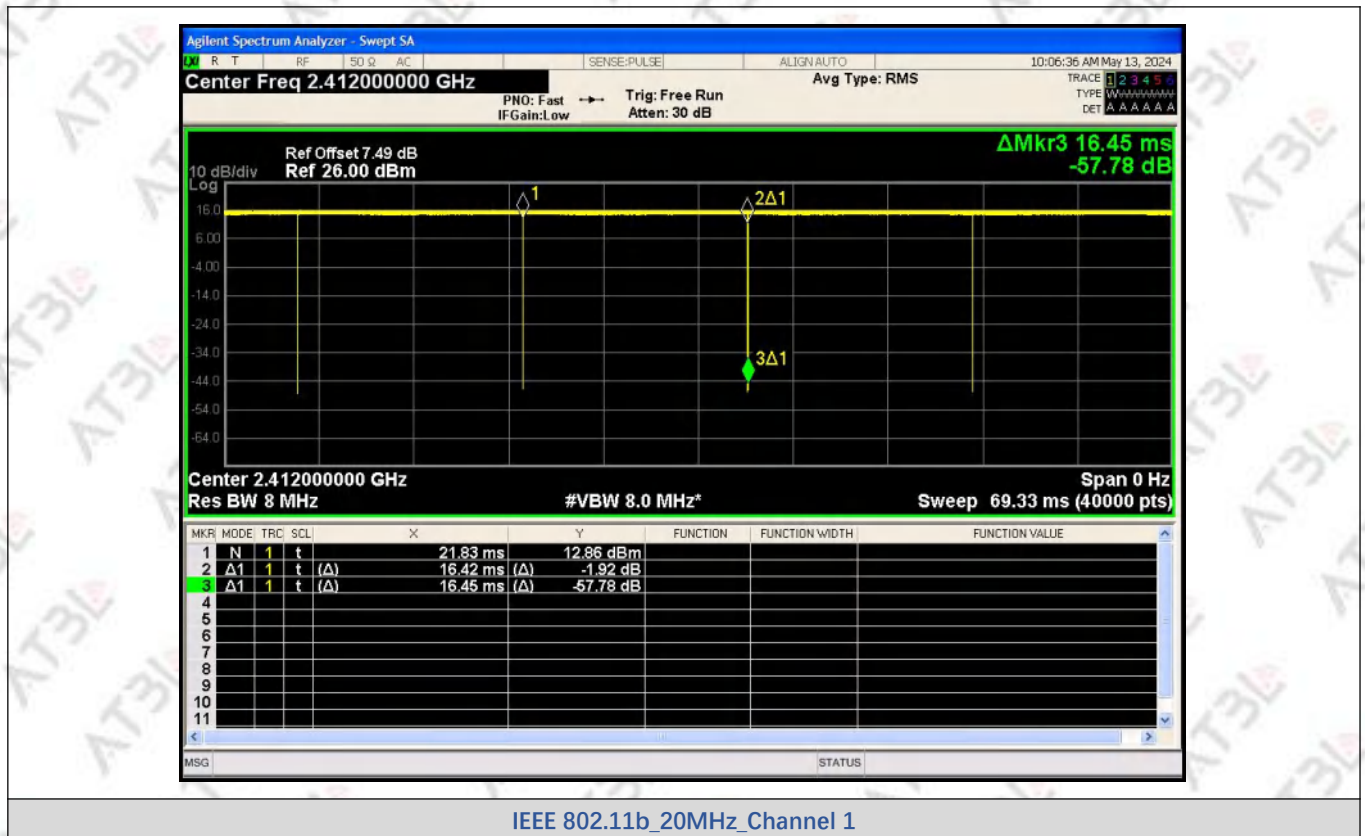
IEEE 802.11n_Channel 11_20MHz_Antenna 0

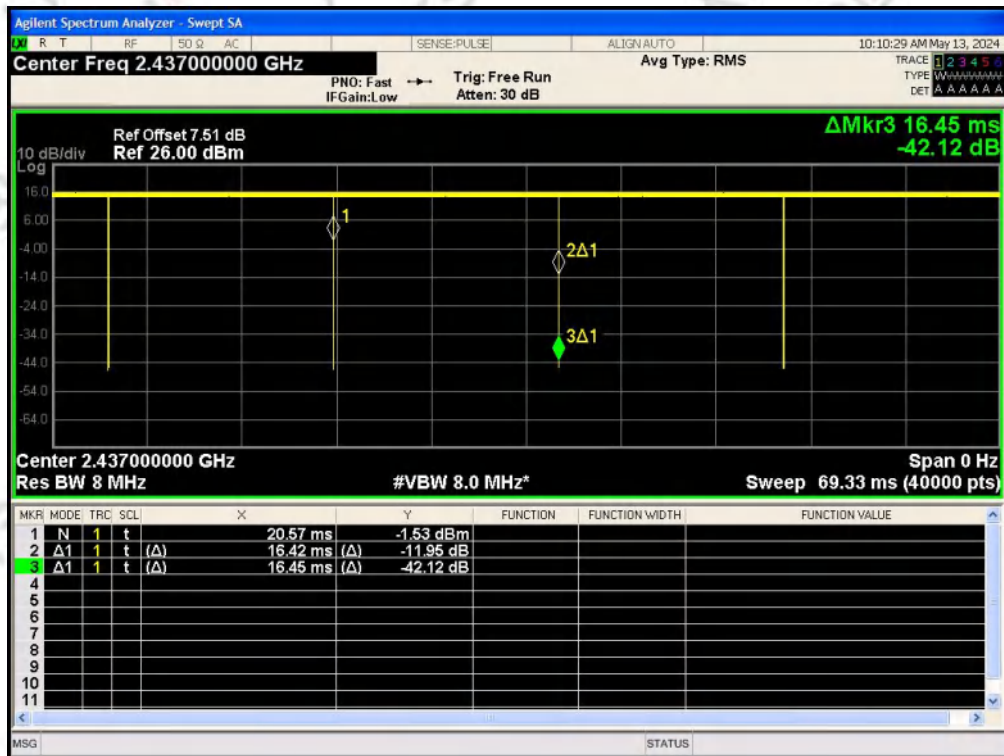
5.Duty Cycle

Test Result

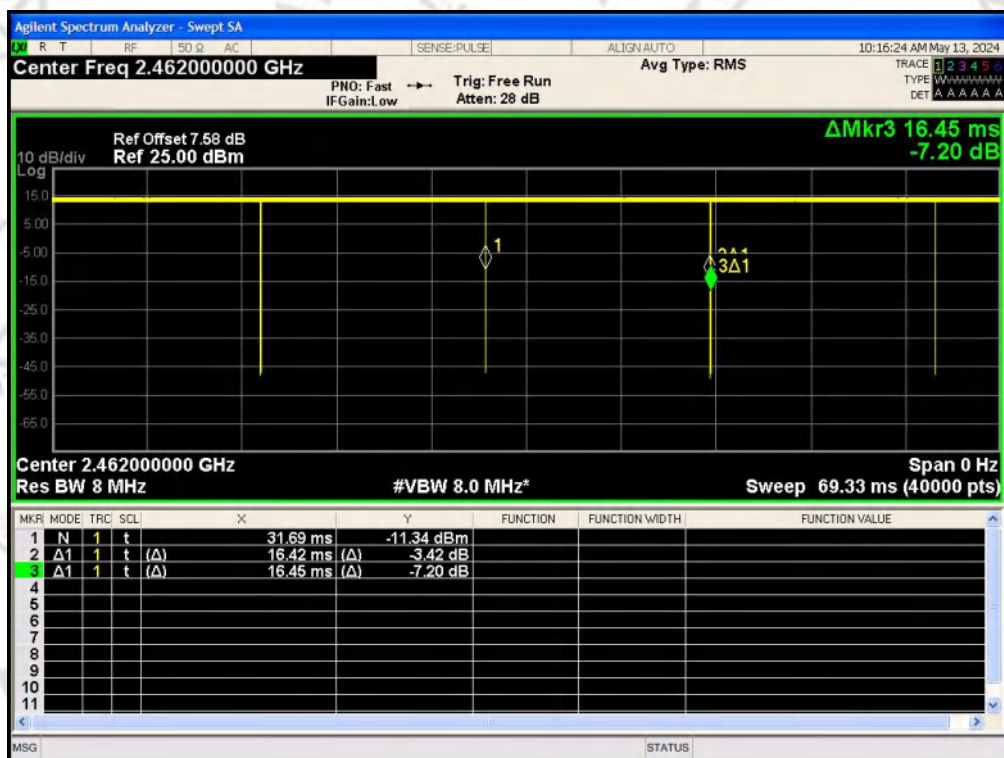
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	1	1	1	16.416	16.448	99.81	0.9981	0.0083
		6		16.418	16.448	99.82	0.9982	0.0078
		11		16.418	16.449	99.81	0.9981	0.0083
IEEE 802.11g	6	1		2.735	2.768	98.84	0.9884	0.0507
		6		2.734	2.767	98.81	0.9881	0.052
		11		2.735	2.768	98.84	0.9884	0.0507
IEEE 802.11n_20	MCS 0	1		2.541	2.575	98.68	0.9868	0.0577
		6		2.541	2.575	98.68	0.9868	0.0577
		11		2.542	2.575	98.72	0.9872	0.0559

Test Graphs

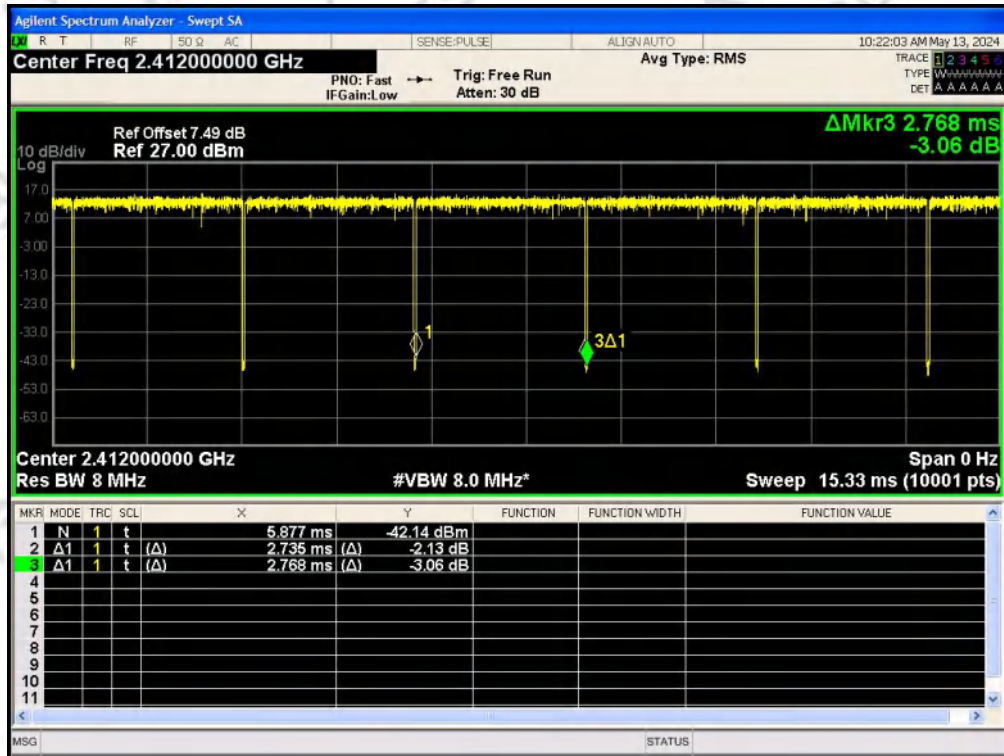




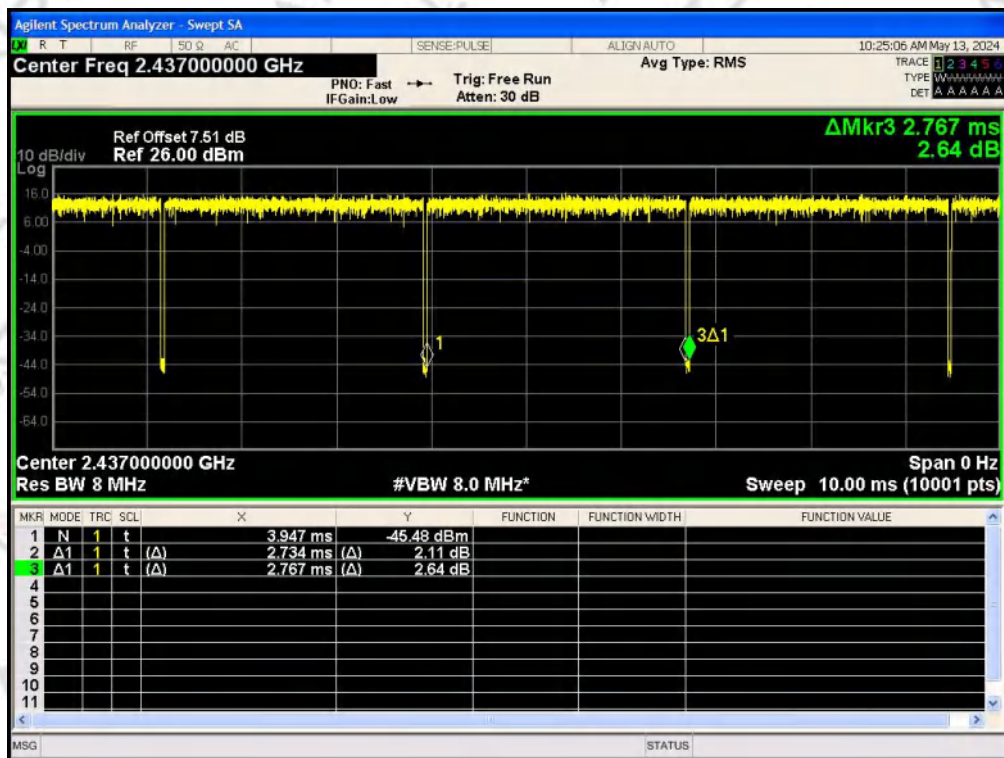
IEEE 802.11b_20MHz_Channel 6



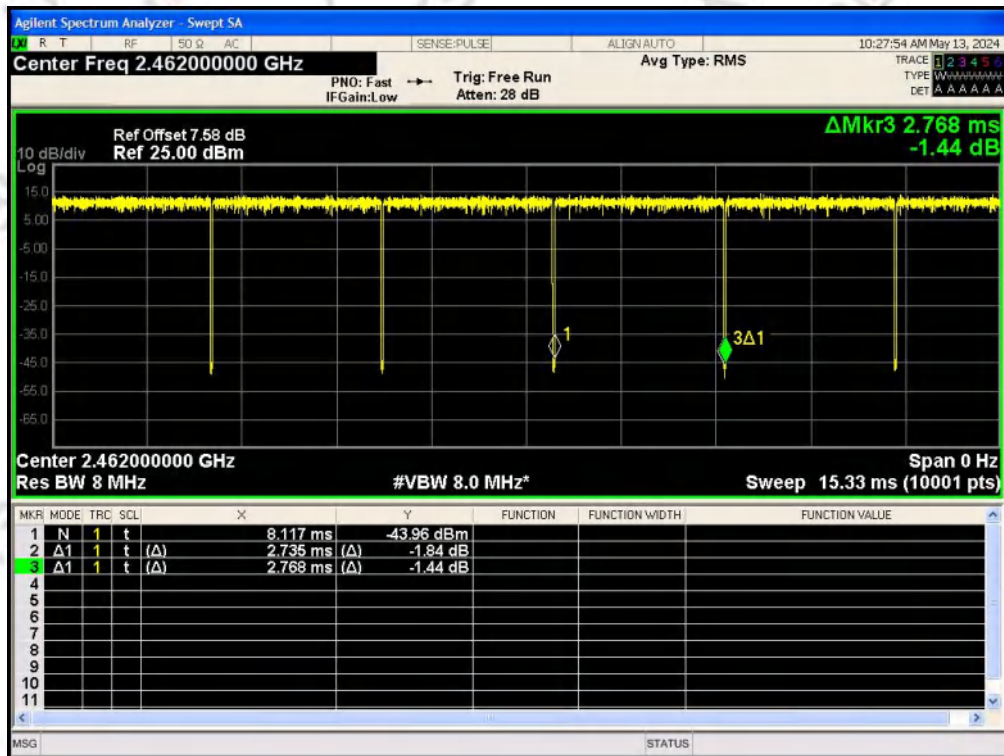
IEEE 802.11b_20MHz_Channel 11



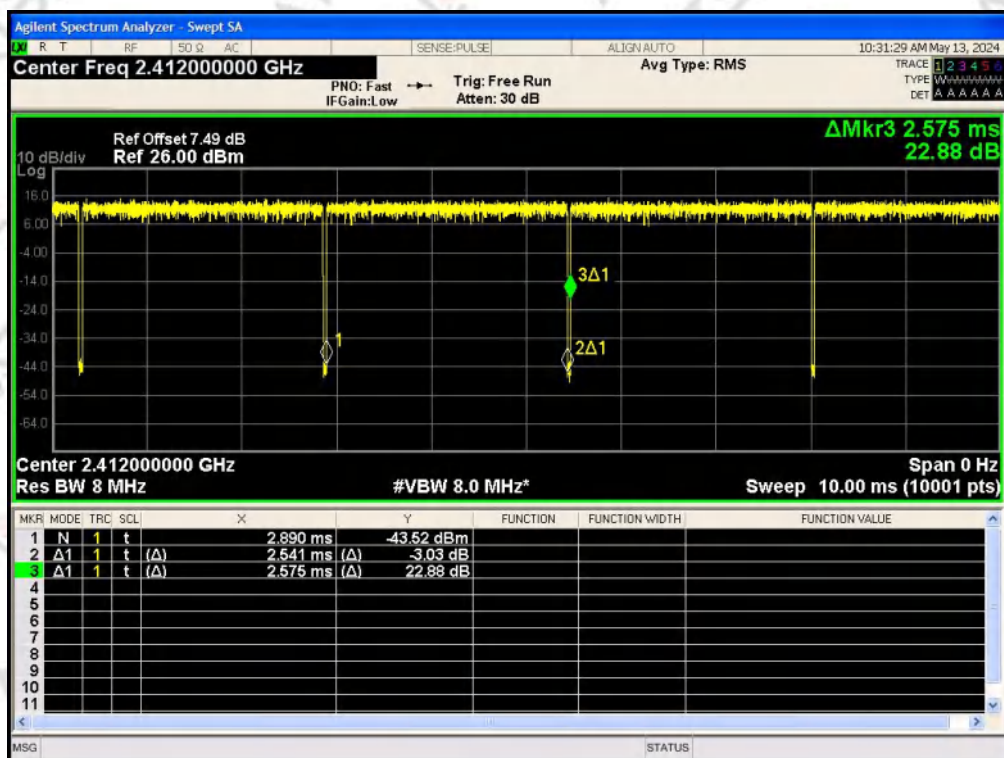
IEEE 802.11g_20MHz_Channel 1



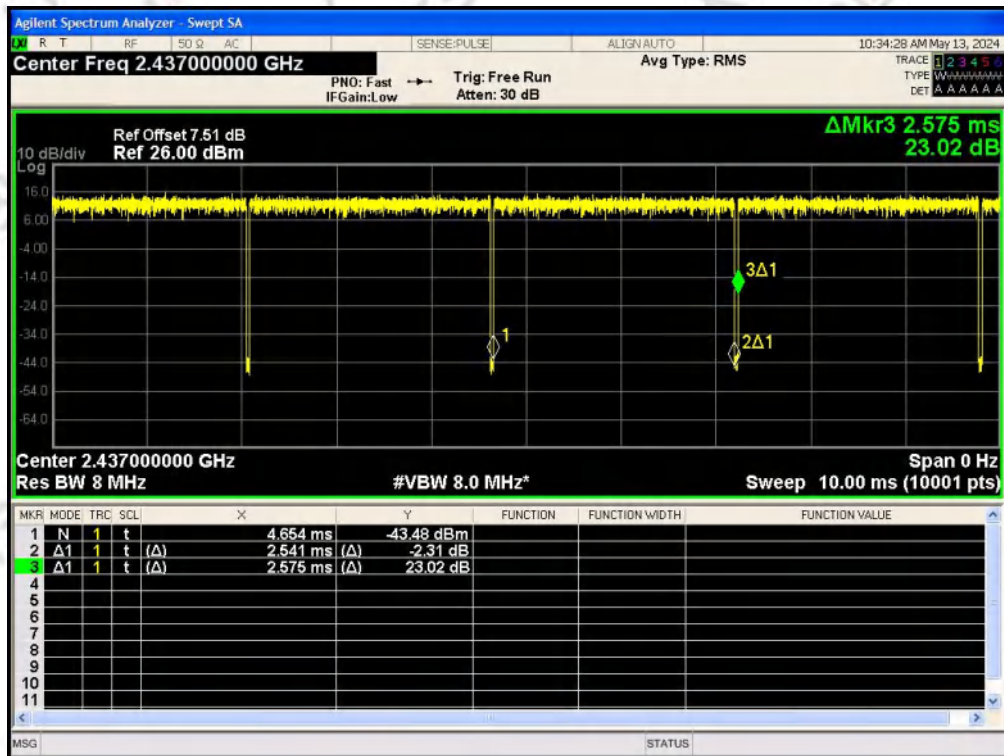
IEEE 802.11g_20MHz_Channel 6



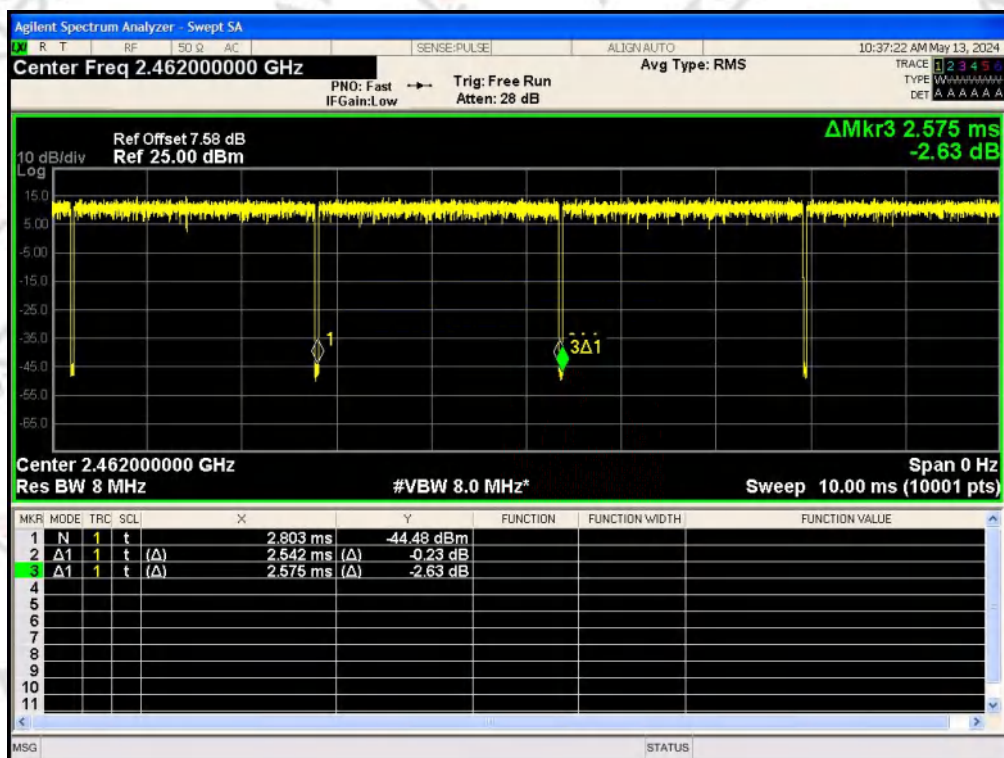
IEEE 802.11g_20MHz_Channel 11



IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 6



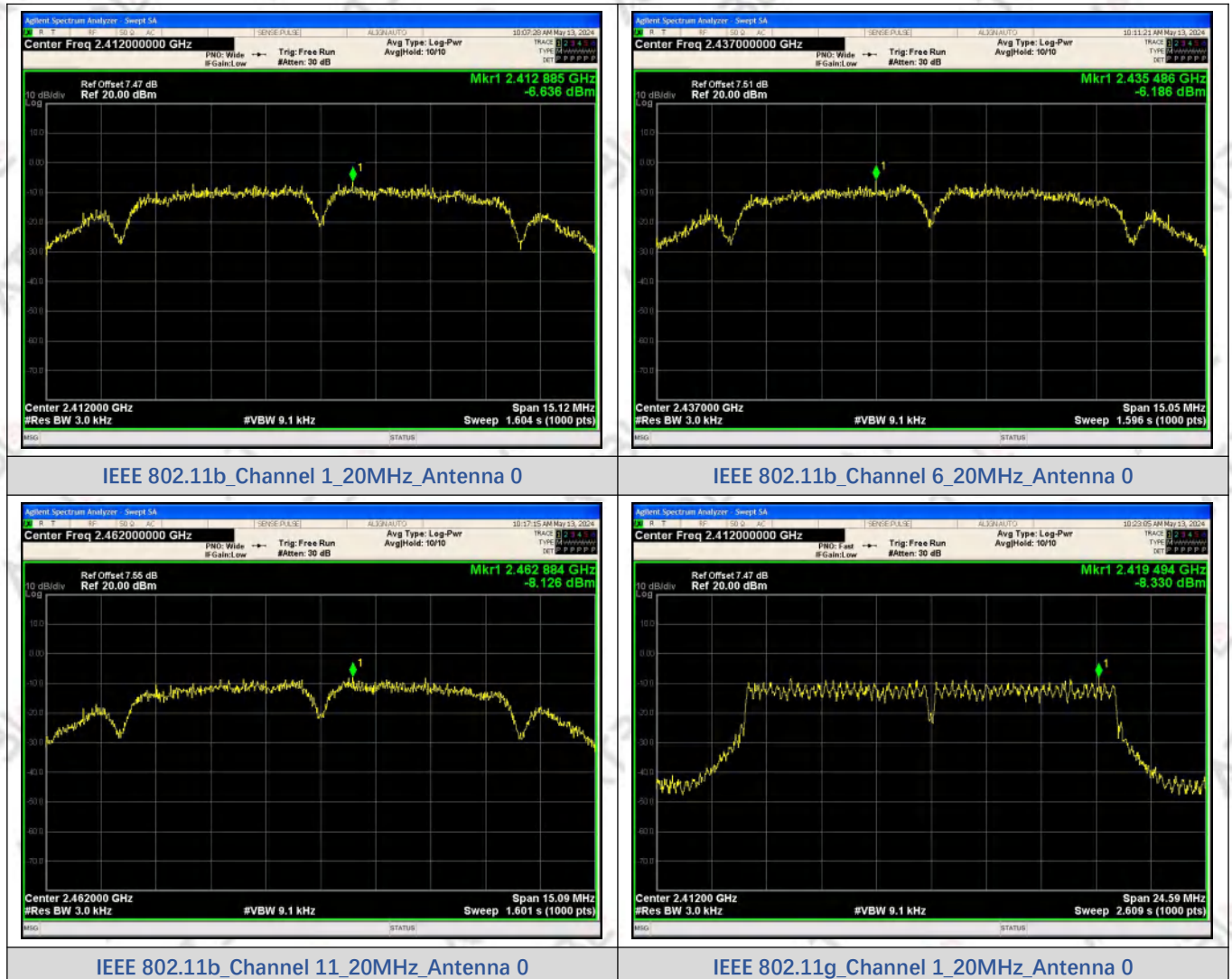
IEEE 802.11n_20MHz_Channel 11

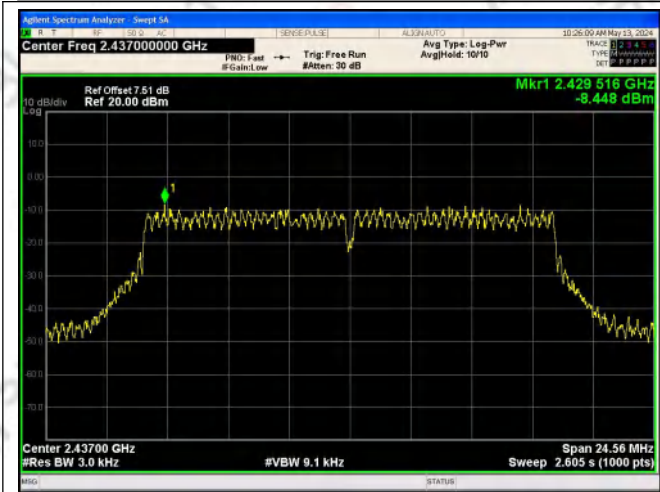
6.Power Spectral Density

Test Result

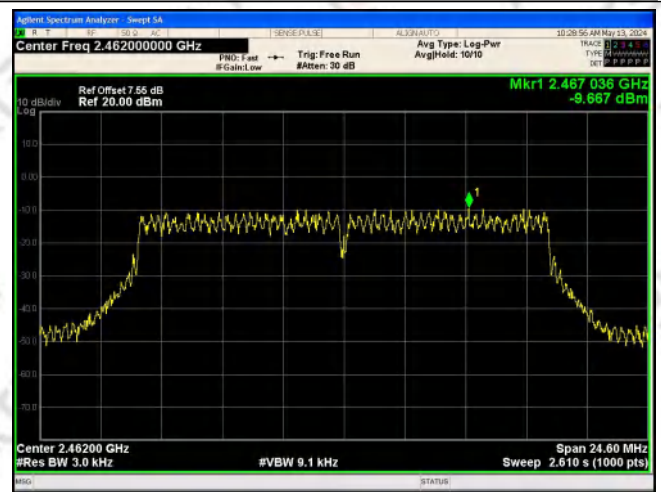
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-6.636	8	PASS
	6	-6.186		PASS
	11	-8.126		PASS
IEEE 802.11g	1	-8.330		PASS
	6	-8.448		PASS
	11	-9.667		PASS
IEEE 802.11n_20	1	-6.790		PASS
	6	-9.634		PASS
	11	-9.114		PASS

Test Graphs

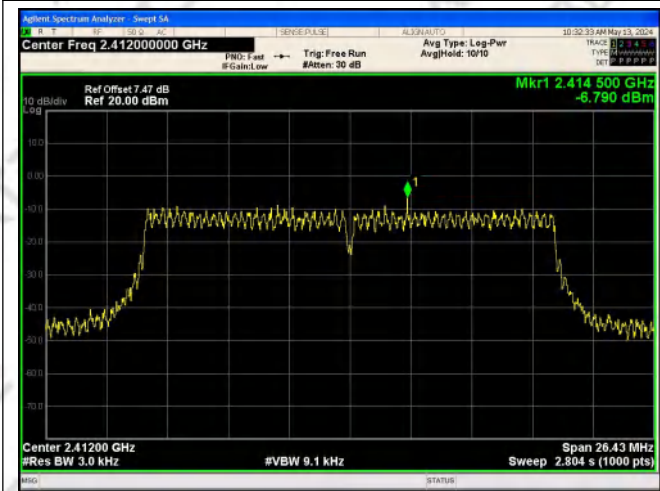




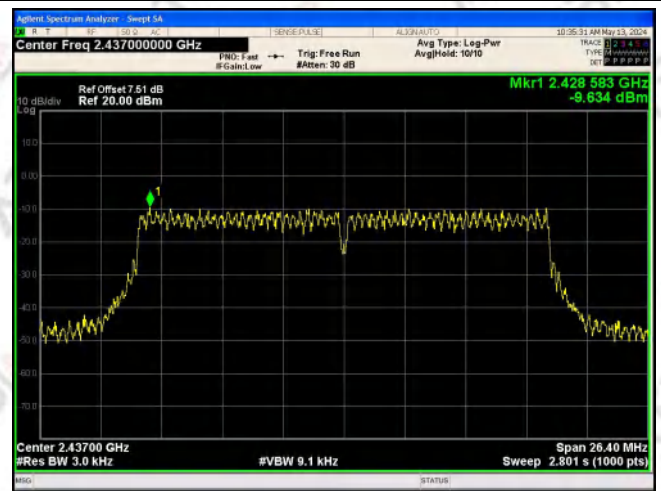
IEEE 802.11g_Channel 6_20MHz_Antenna 0



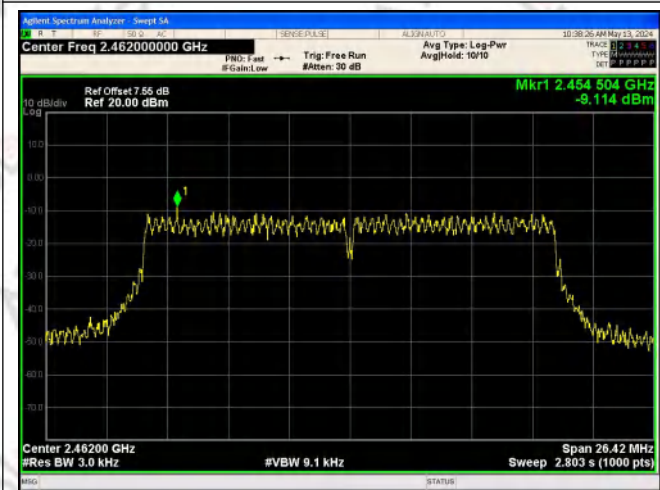
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

*****END OF APPENDIX A*****