



Conducted Output Power

Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	7.13	N/A	≤30	PASS
	6	6.77	N/A	≤30	PASS
	11	6.75	N/A	≤30	PASS
IEEE 802.11g	1	6.68	N/A	≤30	PASS
	6	6.75	N/A	≤30	PASS
	11	6.68	N/A	≤30	PASS
IEEE 802.11n_20	1	8.96	N/A	≤30	PASS
	6	9.02	N/A	≤30	PASS
	11	8.89	N/A	≤30	PASS
IEEE 802.11n_40	3	8.66	N/A	≤30	PASS
	6	8.76	N/A	≤30	PASS
	9	8.83	N/A	≤30	PASS

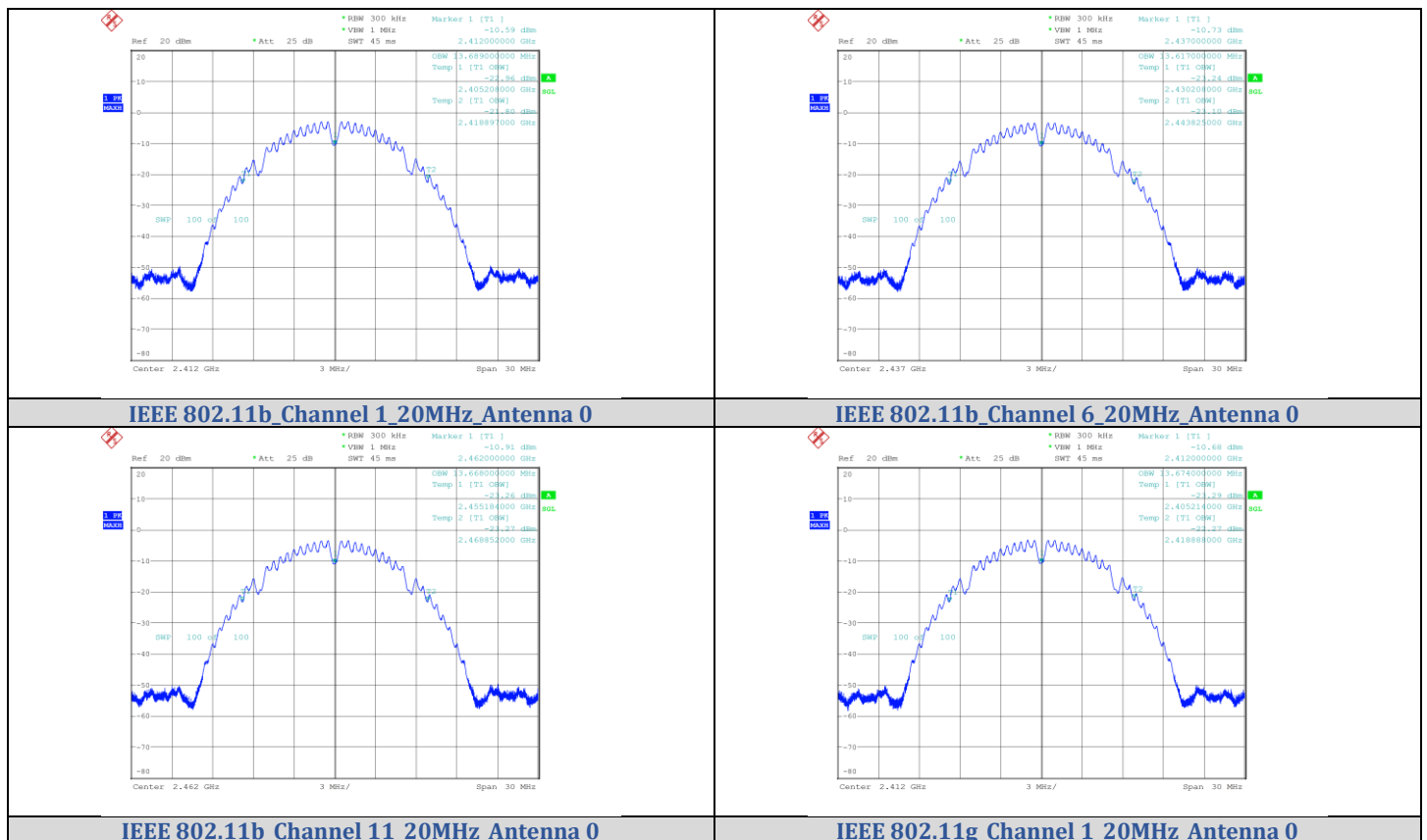


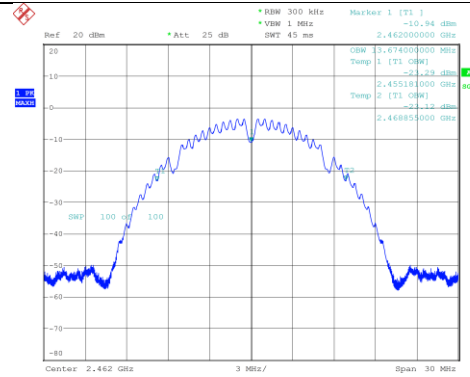
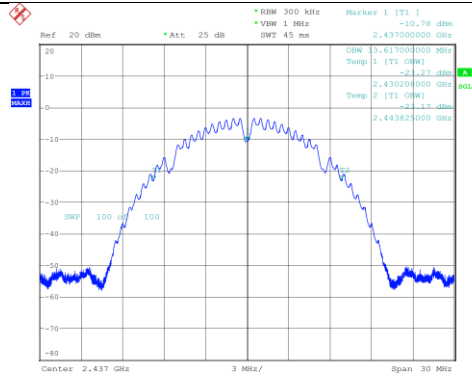
99% Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	13.690
	6		2437	13.620
	11		2462	13.670
IEEE 802.11g	1		2412	13.670
	6		2437	13.620
	11		2462	13.670
IEEE 802.11n_20	1		2412	18.180
	6		2437	18.170
	11		2462	18.190
IEEE 802.11n_40	3		2422	36.710
	6		2437	36.650
	9		2452	36.750

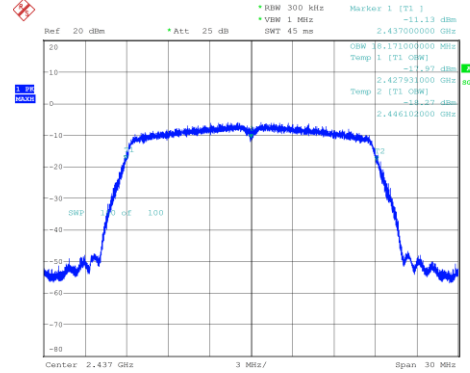
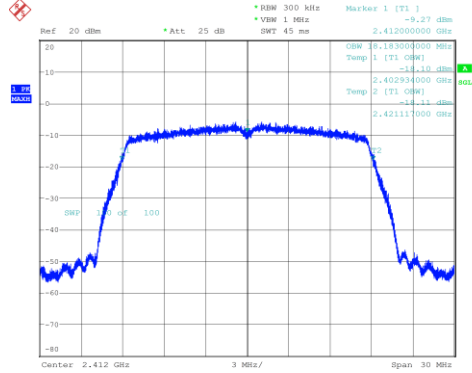
Test Graphs





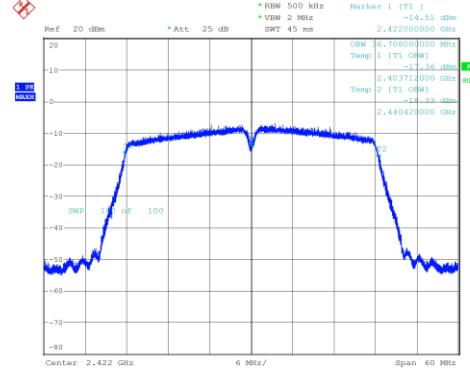
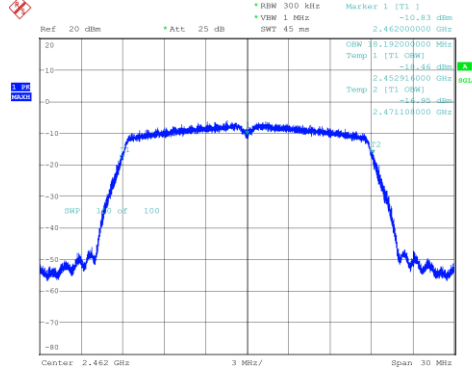
IEEE 802.11g Channel 6_20MHz_Antenna 0

IEEE 802.11g Channel 11_20MHz_Antenna 0



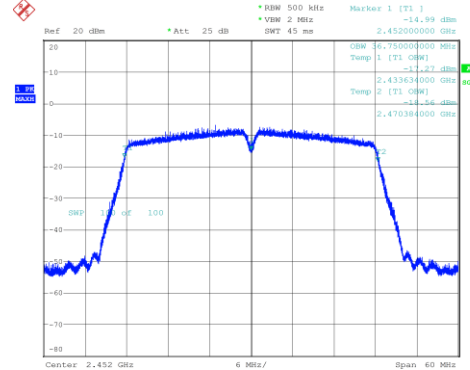
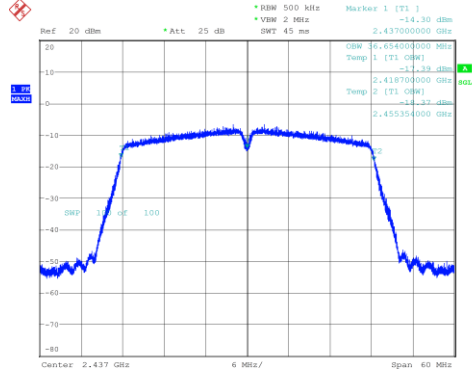
IEEE 802.11n Channel 1_20MHz_Antenna 0

IEEE 802.11n Channel 6_20MHz_Antenna 0



IEEE 802.11n Channel 11_20MHz_Antenna 0

IEEE 802.11n Channel 3_40MHz_Antenna 0



IEEE 802.11n Channel 6_40MHz_Antenna 0

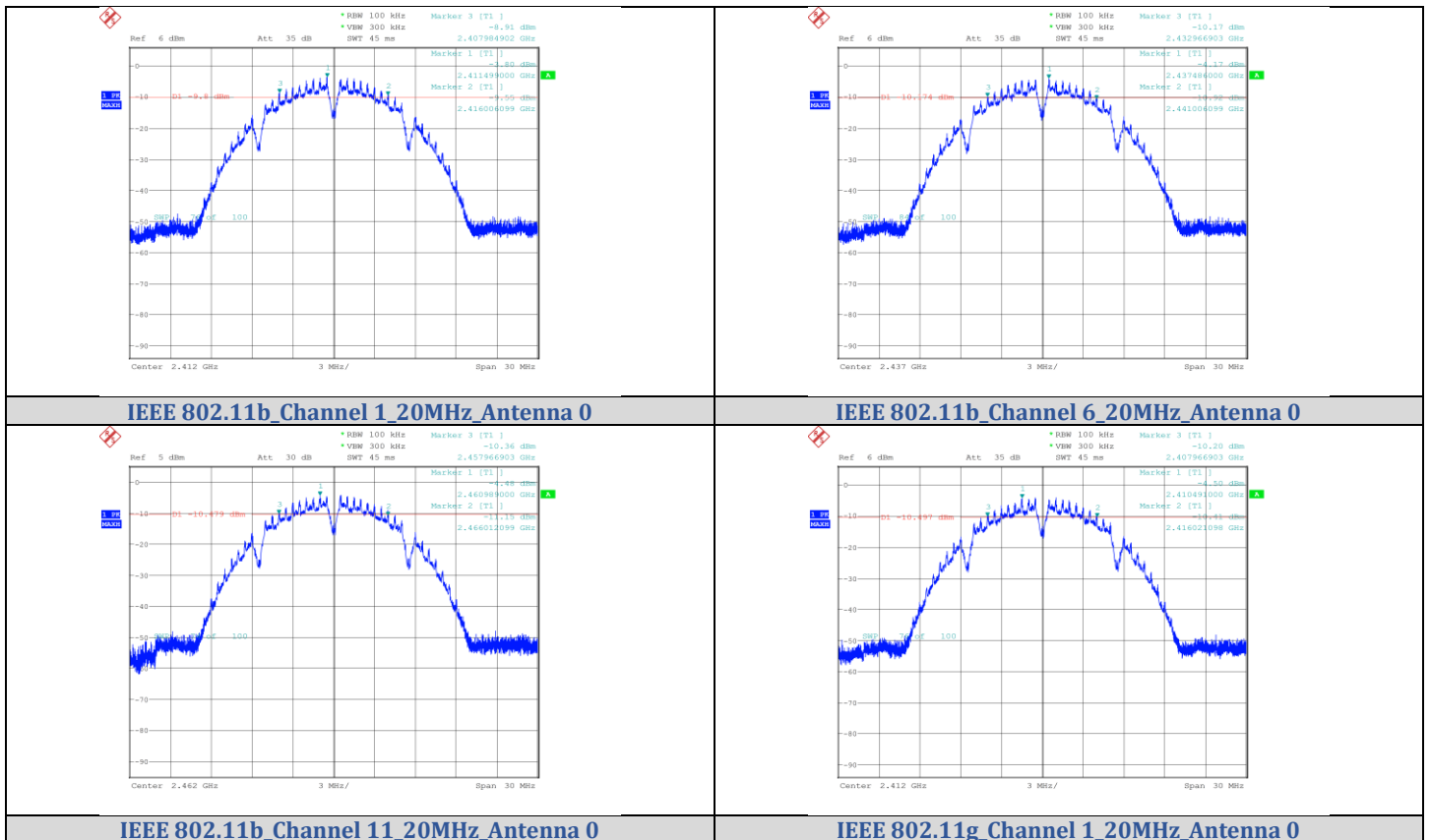
IEEE 802.11n Channel 9_40MHz_Antenna 0

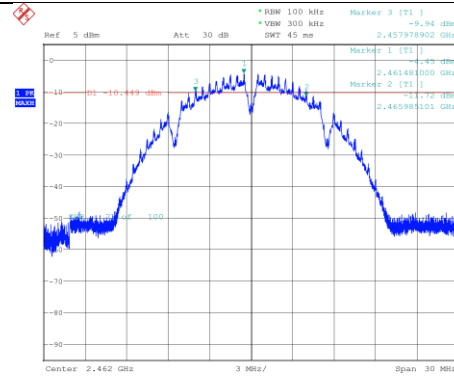
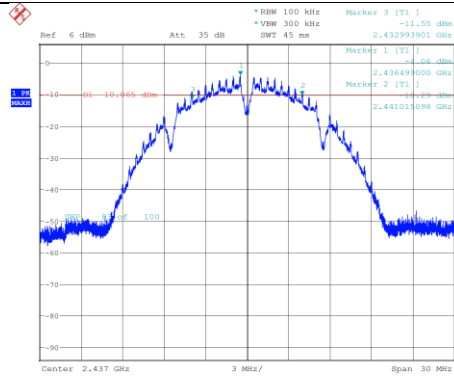
6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.030	≥0.5	PASS
	6		2437	8.040		PASS
	11		2462	8.040		PASS
IEEE 802.11g	1		2412	8.050		PASS
	6		2437	8.030		PASS
	11		2462	8.010		PASS
IEEE 802.11n_20	1		2412	15.11		PASS
	6		2437	15.11		PASS
	11		2462	15.11		PASS
IEEE 802.11n_40	3		2422	35.07		PASS
	6		2437	35.07		PASS
	9		2452	35.09		PASS

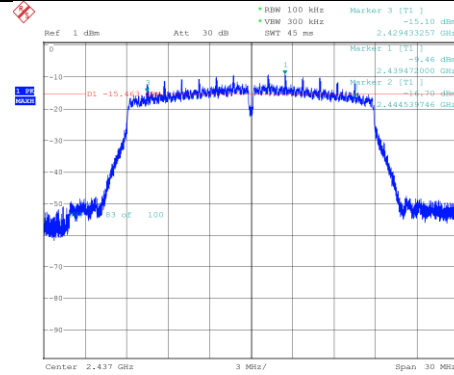
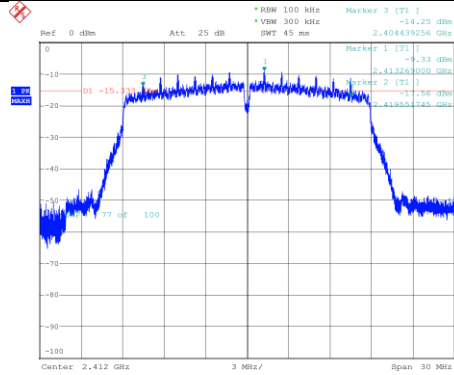
Test Graphs





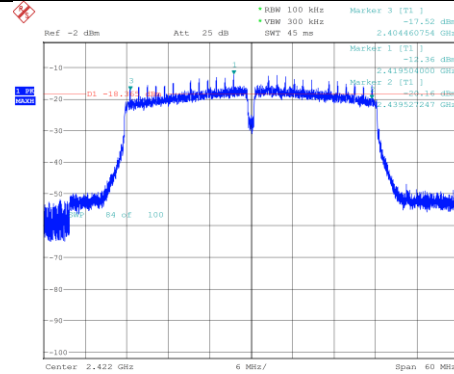
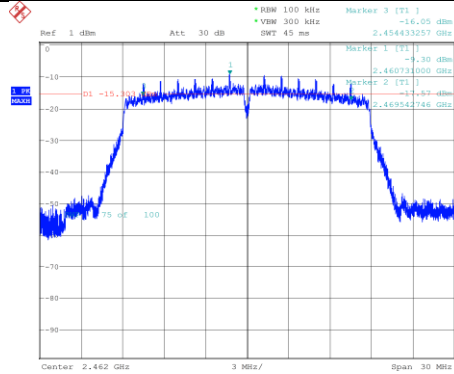
IEEE 802.11g Channel 6_20MHz_Antenna 0

IEEE 802.11g Channel 11_20MHz_Antenna 0



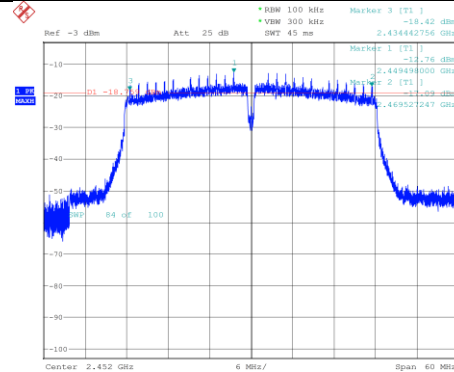
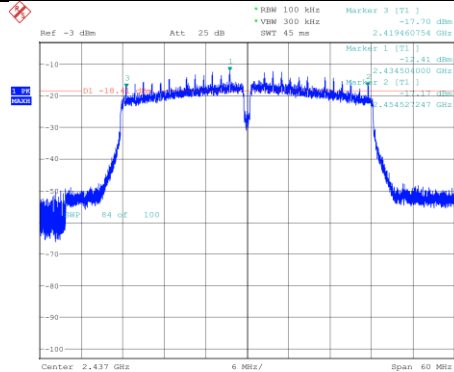
IEEE 802.11n Channel 1_20MHz_Antenna 0

IEEE 802.11n Channel 6_20MHz_Antenna 0



IEEE 802.11n Channel 11_20MHz_Antenna 0

IEEE 802.11n Channel 3_40MHz_Antenna 0



IEEE 802.11n Channel 6_40MHz_Antenna 0

IEEE 802.11n Channel 9_40MHz_Antenna 0

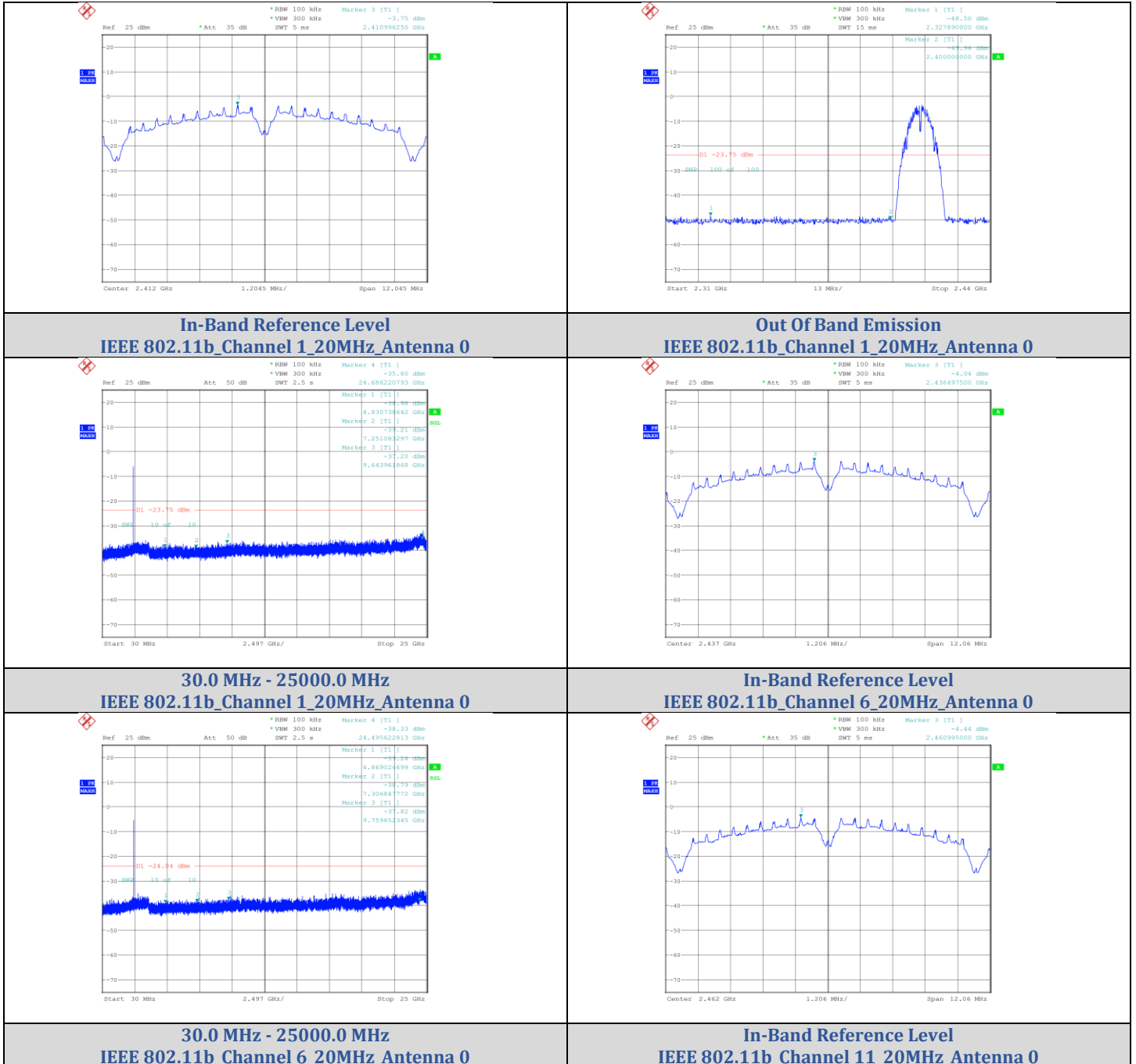
Conducted Out Of Band Emission

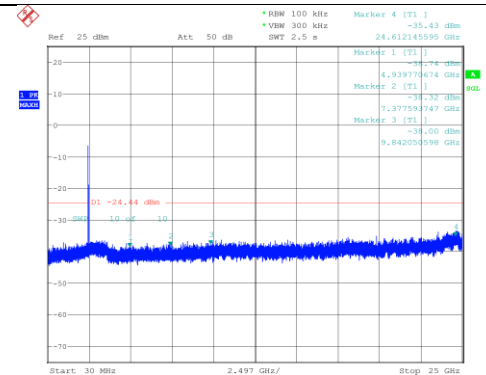
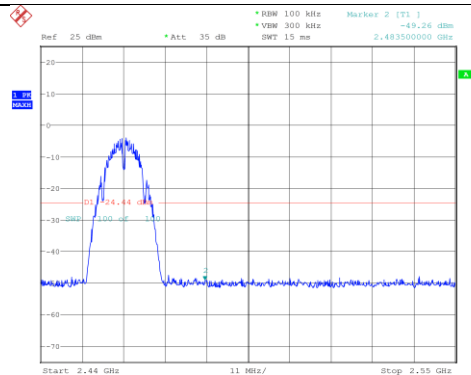
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2327.89	-48.502	-23.75	-24.752	PASS
			2400.00	-49.963	-23.75	-26.213	PASS
			4830.70	-38.981	-23.75	-15.231	PASS
			7251.10	-39.206	-23.75	-15.456	PASS
			9644.00	-37.201	-23.75	-13.451	PASS
	6		24686.2	-33.066	-23.75	-9.316	PASS
			4869.02	-39.239	-24.04	-15.199	PASS
			7306.85	-38.786	-24.04	-14.746	PASS
			9759.65	-37.816	-24.04	-13.776	PASS
			24495.6	-33.566	-24.04	-9.526	PASS
	11		2483.50	-49.259	-24.44	-24.819	PASS
			4939.77	-38.737	-24.44	-14.297	PASS
			7377.59	-38.317	-24.44	-13.877	PASS
			9842.05	-37.996	-24.44	-13.556	PASS
			24612.1	-33.569	-24.44	-9.129	PASS
IEEE 802.11g	1		2395.70	-47.313	-24.14	-23.173	PASS
			2400.00	-50.214	-24.14	-26.074	PASS
			4805.80	-38.522	-24.14	-14.382	PASS
			7248.60	-39.239	-24.14	-15.099	PASS
			9629.80	-36.839	-24.14	-12.699	PASS
	6		24683.7	-32.986	-24.14	-8.846	PASS
			4864.03	-39.458	-24.16	-15.298	PASS
			7329.32	-38.712	-24.16	-14.552	PASS
			9749.66	-37.271	-24.16	-13.111	PASS
			24648.8	-31.933	-24.16	-7.773	PASS
	11		2483.50	-49.952	-24.3	-25.652	PASS
			4927.29	-38.538	-24.3	-14.238	PASS
			7392.58	-38.274	-24.3	-13.974	PASS
			9849.54	-37.788	-24.3	-13.488	PASS
			24647.9	-32.614	-24.3	-8.314	PASS
IEEE 802.11n_20	1		2365.95	-48.278	-29.4	-18.878	PASS
			2400.00	-49.393	-29.4	-19.993	PASS
			4835.70	-39.028	-29.4	-9.628	PASS
			7240.30	-38.958	-29.4	-9.558	PASS
			9630.60	-37.587	-29.4	-8.187	PASS
	6		24659.6	-32.935	-29.4	-3.535	PASS
			4875.68	-38.834	-29.1	-9.734	PASS
			7301.85	-39.017	-29.1	-9.917	PASS
			9762.15	-37.883	-29.1	-8.783	PASS
			24558.9	-33.400	-29.1	-4.300	PASS
	11		2483.50	-50.267	-29.57	-20.697	PASS
			4924.79	-38.602	-29.57	-9.032	PASS
			7400.07	-38.886	-29.57	-9.316	PASS
			9833.73	-37.251	-29.57	-7.681	PASS
			24489.8	-33.555	-29.57	-3.985	PASS
IEEE 802.11n_40	3		2381.55	-48.101	-32.56	-15.541	PASS
			2400.00	-50.386	-32.56	-17.826	PASS
			4856.50	-38.909	-32.56	-6.349	PASS
			7230.30	-38.505	-32.56	-5.945	PASS
			9672.30	-37.811	-32.56	-5.251	PASS
	6		24476.5	-33.259	-32.56	-0.699	PASS
			4912.30	-38.712	-32.49	-6.222	PASS
			7283.54	-37.430	-32.49	-4.940	PASS

	9	9717.20	-38.630	-32.49	-6.140	PASS
		24541.4	-32.698	-32.49	-0.208	PASS
		2483.50	-49.383	-32.48	-16.903	PASS
		4878.18	-38.409	-32.48	-5.929	PASS
		7324.33	-38.627	-32.48	-6.147	PASS
		9806.26	-38.611	-32.48	-6.131	PASS
		24233.4	-32.791	-32.48	-0.311	PASS

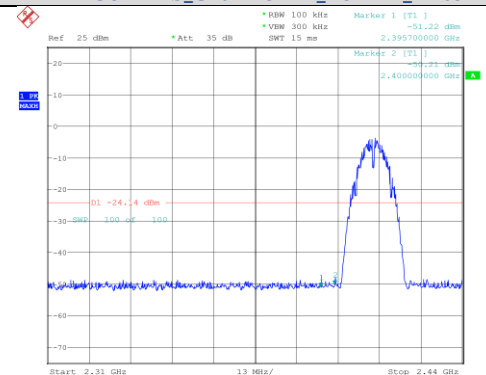
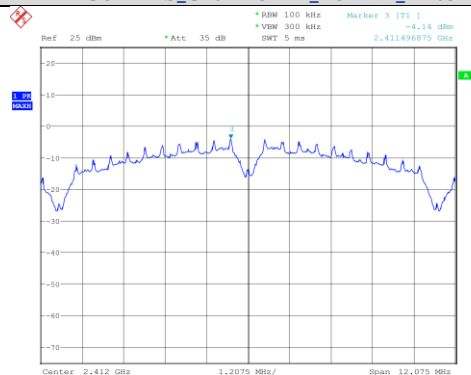
Test Graphs





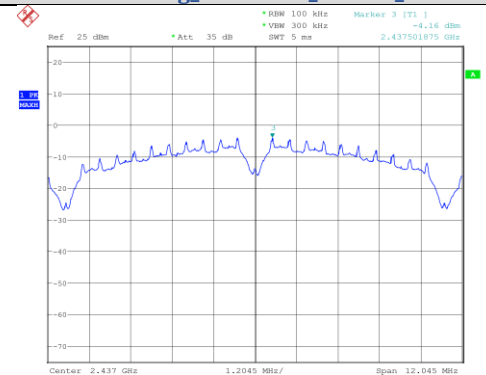
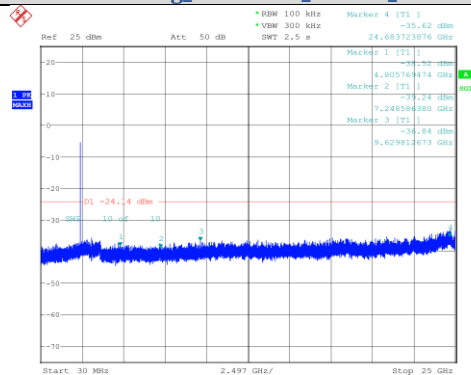
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



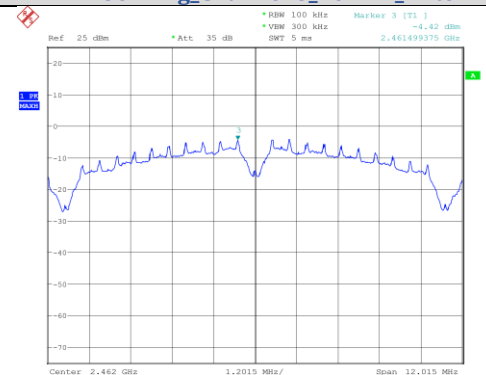
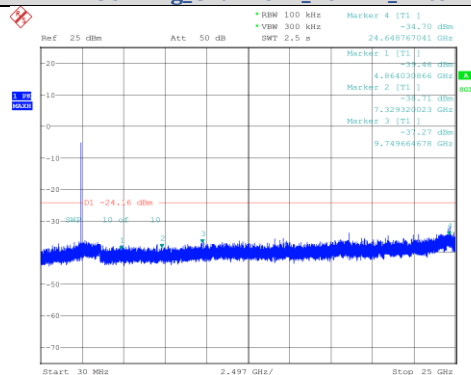
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0

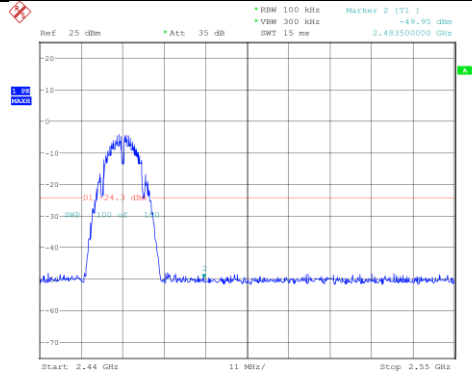
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



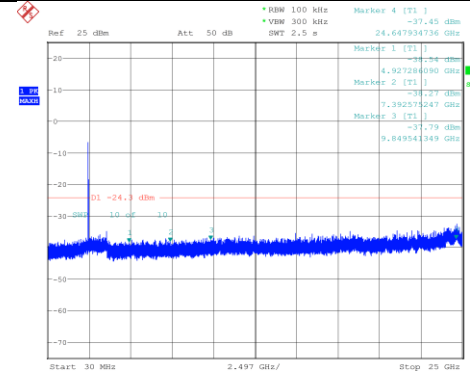
30.0 MHz - 25000.0 MHz

In-Band Reference Level

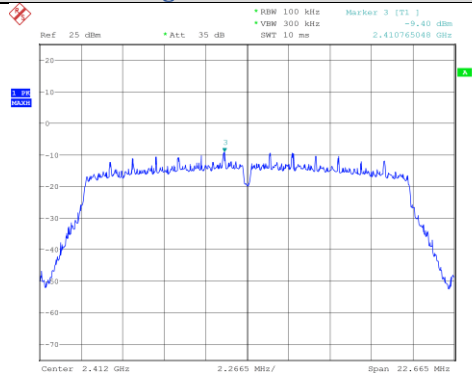
IEEE 802.11g_Channel 6_20MHz_Antenna 0



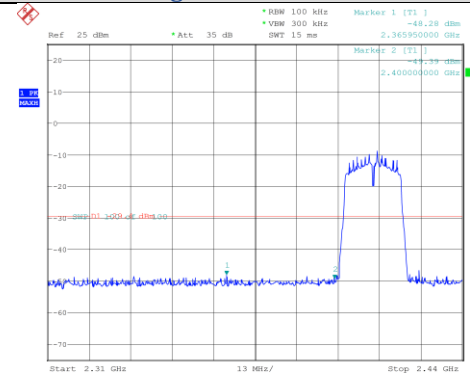
IEEE 802.11g_Channel 11_20MHz_Antenna 0



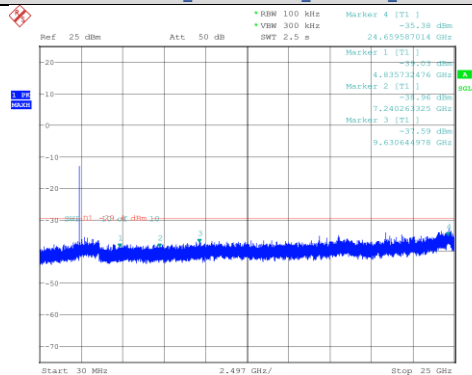
Out Of Band Emission IEEE 802.11g_Channel 11_20MHz_Antenna 0



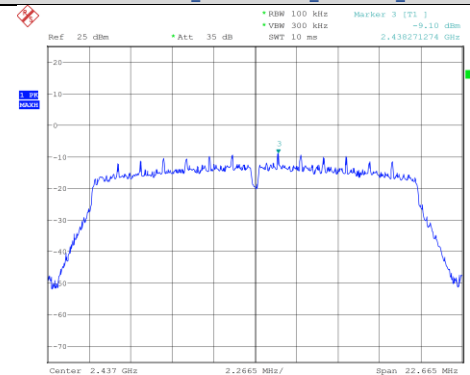
30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 11_20MHz_Antenna 0



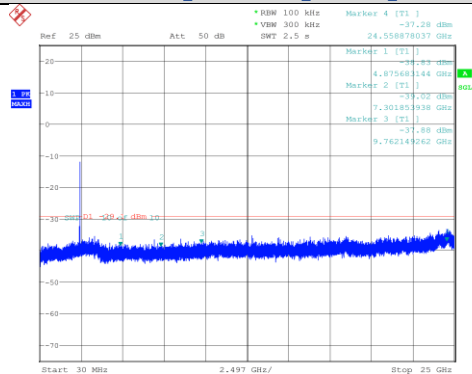
In-Band Reference Level IEEE 802.11n_Channel 1_20MHz_Antenna 0



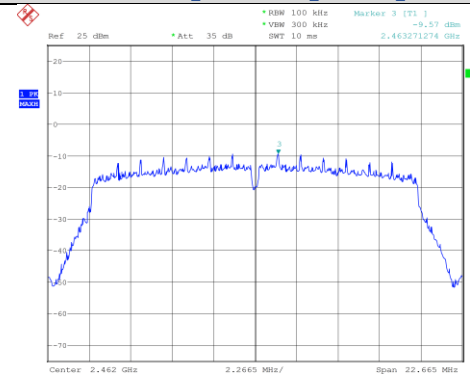
Out Of Band Emission IEEE 802.11n_Channel 1_20MHz_Antenna 0



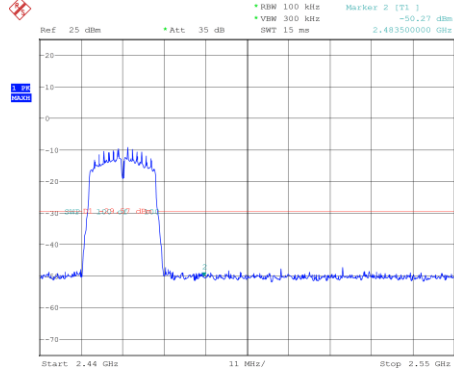
30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 1_20MHz_Antenna 0



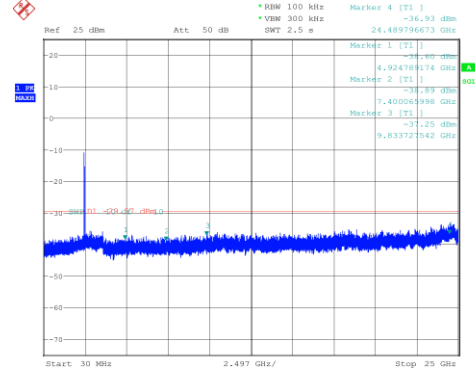
In-Band Reference Level IEEE 802.11n_Channel 6_20MHz_Antenna 0



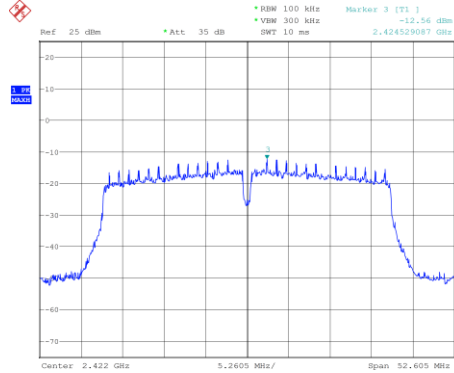
30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 6_20MHz_Antenna 0



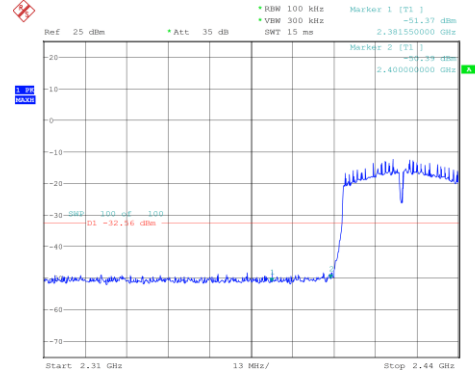
In-Band Reference Level IEEE 802.11n_Channel 11_20MHz_Antenna 0



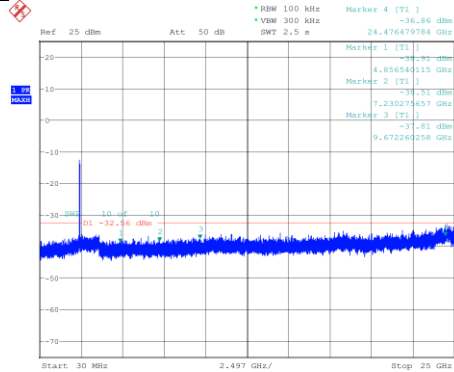
Out Of Band Emission IEEE 802.11n_Channel 11_20MHz_Antenna 0



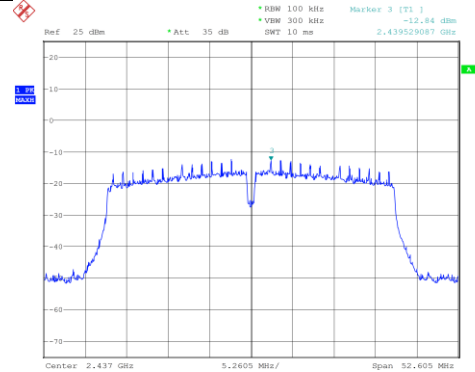
30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 11_20MHz_Antenna 0



In-Band Reference Level IEEE 802.11n_Channel 3_40MHz_Antenna 0

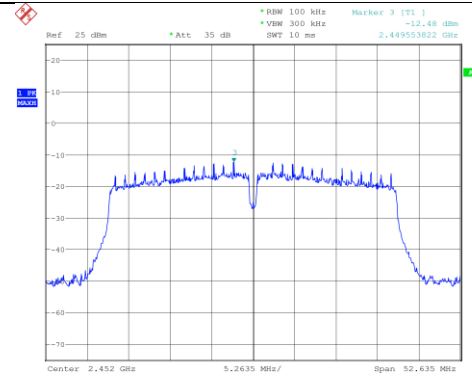
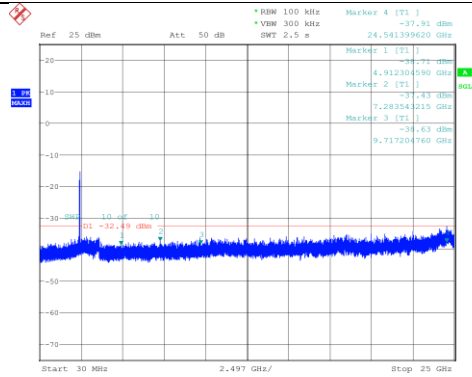


Out Of Band Emission IEEE 802.11n_Channel 3_40MHz_Antenna 0

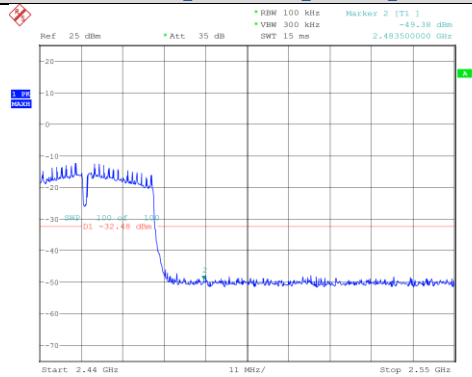


30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 3_40MHz_Antenna 0

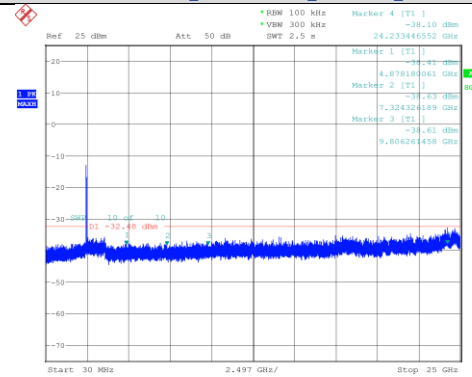
In-Band Reference Level IEEE 802.11n_Channel 6_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission IEEE 802.11n_Channel 9_40MHz_Antenna 0

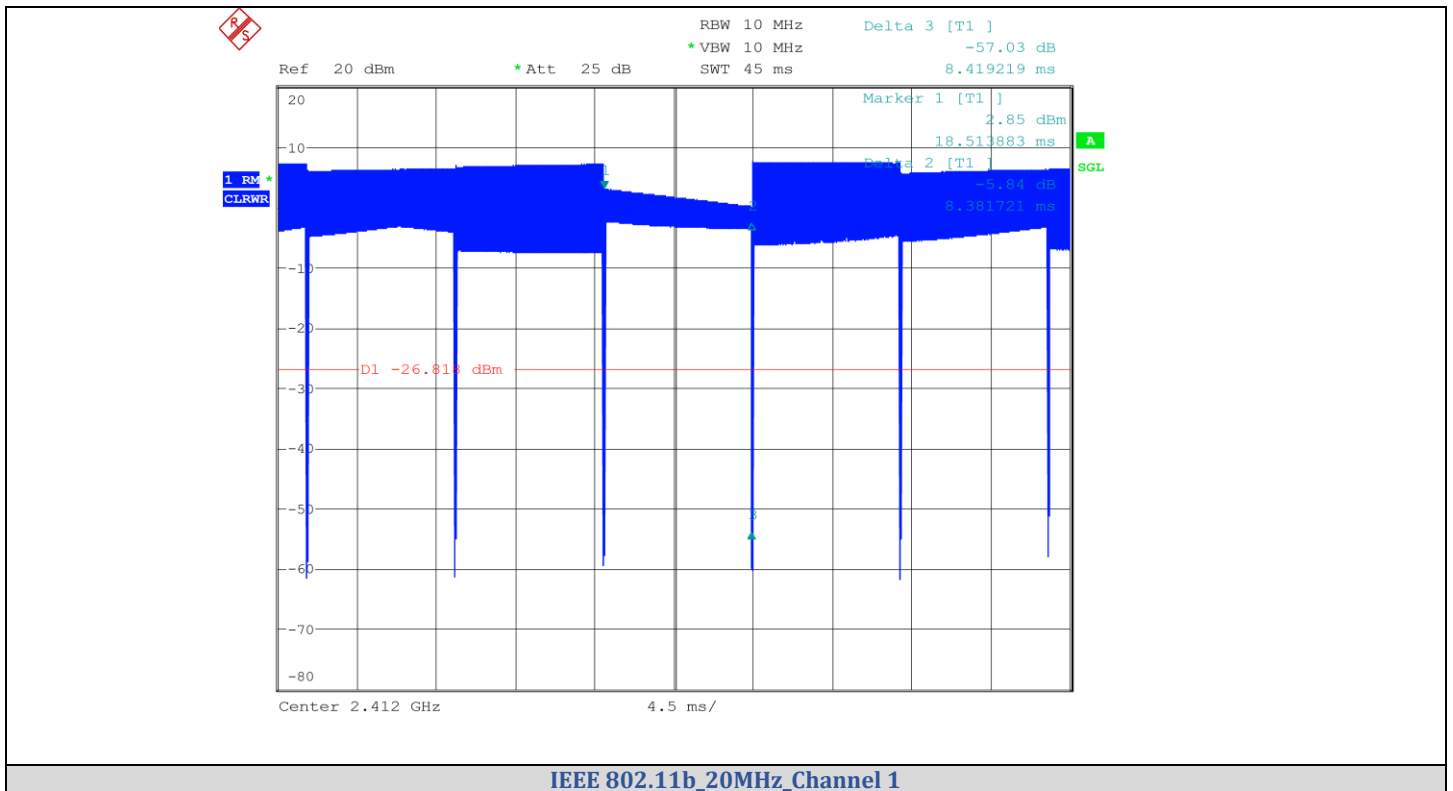
30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 9_40MHz_Antenna 0

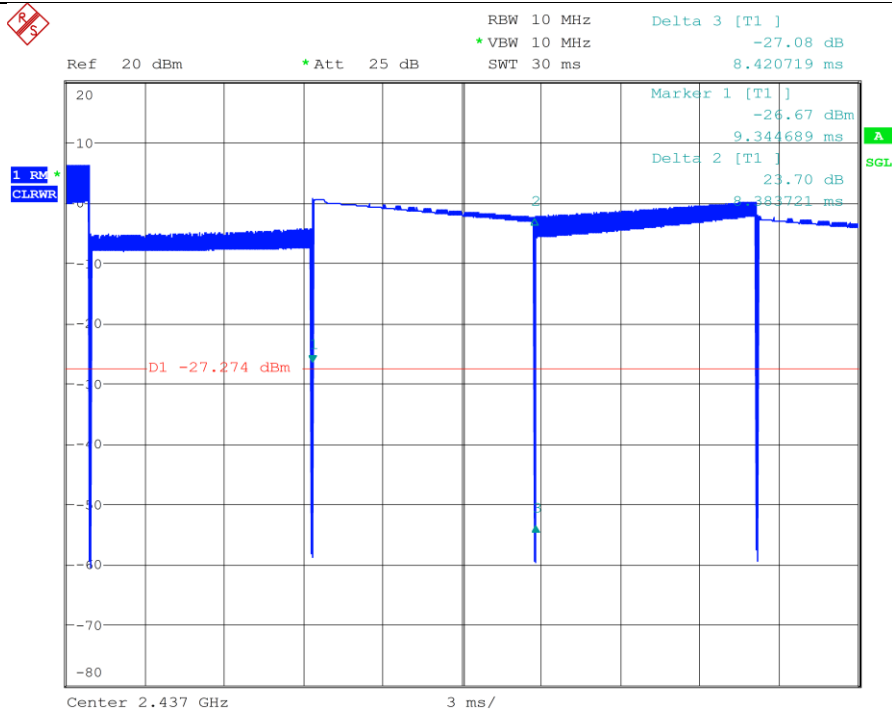
Duty Cycle

Test Result

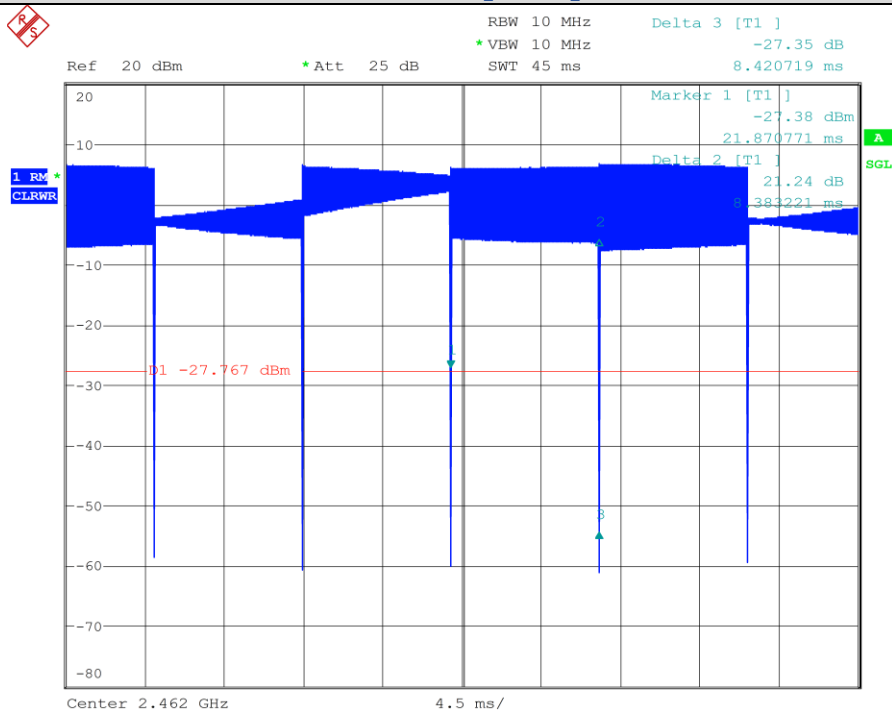
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	1	1	1	8.382	8.419	99.55	0.9955	0.0196
		6		8.384	8.421	99.56	0.9956	0.0192
		11		8.383	8.421	99.55	0.9955	0.0196
IEEE 802.11g		1		8.396	8.423	99.68	0.9968	0.0139
		6		8.400	8.427	99.68	0.9968	0.0139
		11		8.400	8.427	99.68	0.9968	0.0139
IEEE 802.11n_20	MCS 0	1		1.292	1.334	96.85	0.9685	0.139
		6		1.291	1.333	96.80	0.9680	0.1412
		11		1.292	1.334	96.85	0.9685	0.139
IEEE 802.11n_40		3		0.638	0.681	93.67	0.9367	0.284
		6		0.638	0.680	93.73	0.9373	0.2812
		9		0.638	0.680	93.73	0.9373	0.2812

Test Graphs

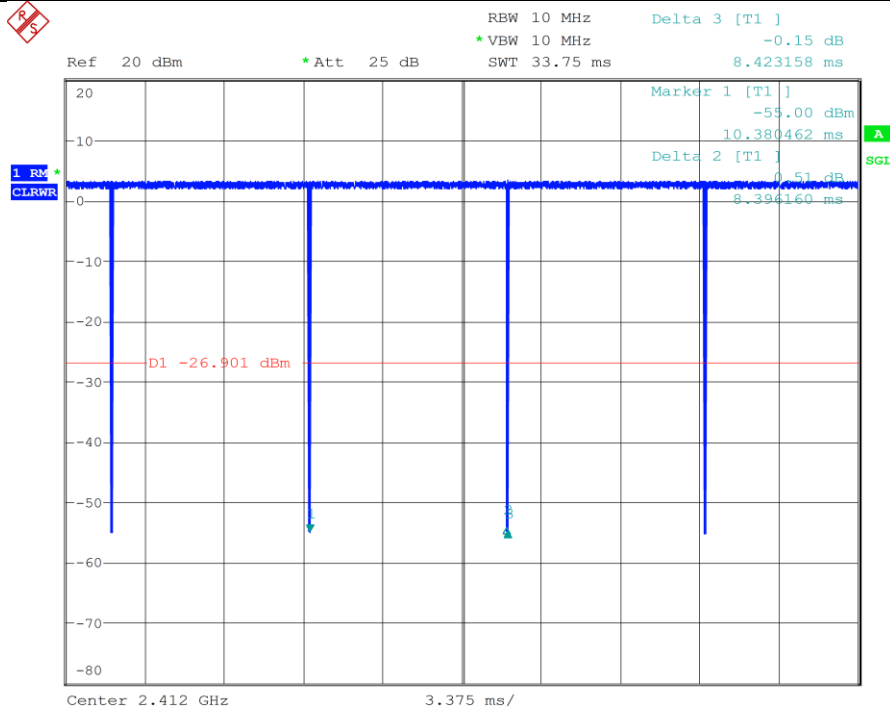




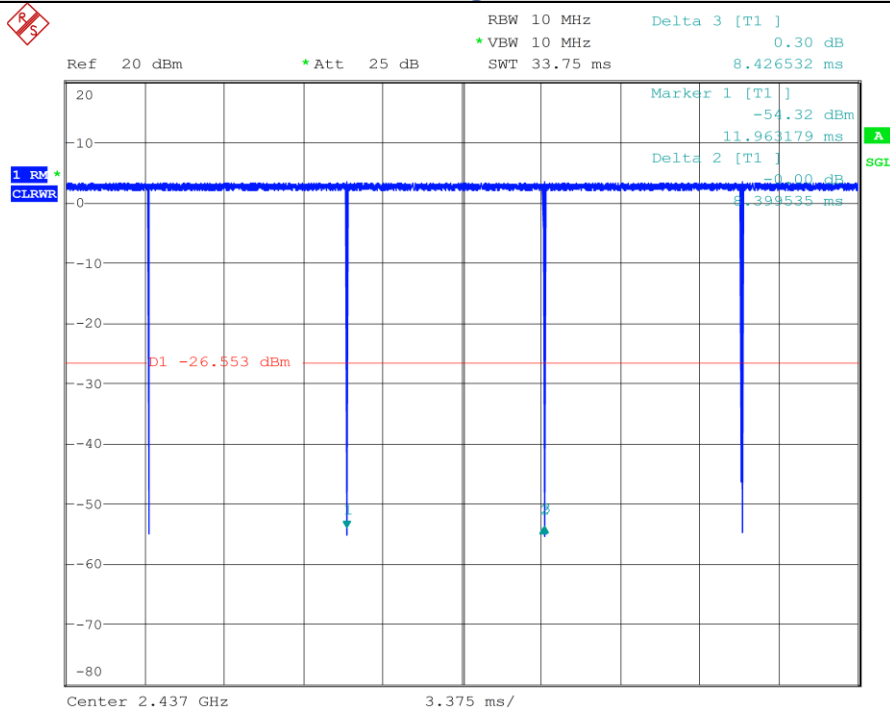
IEEE 802.11b_20MHz_Channel 6



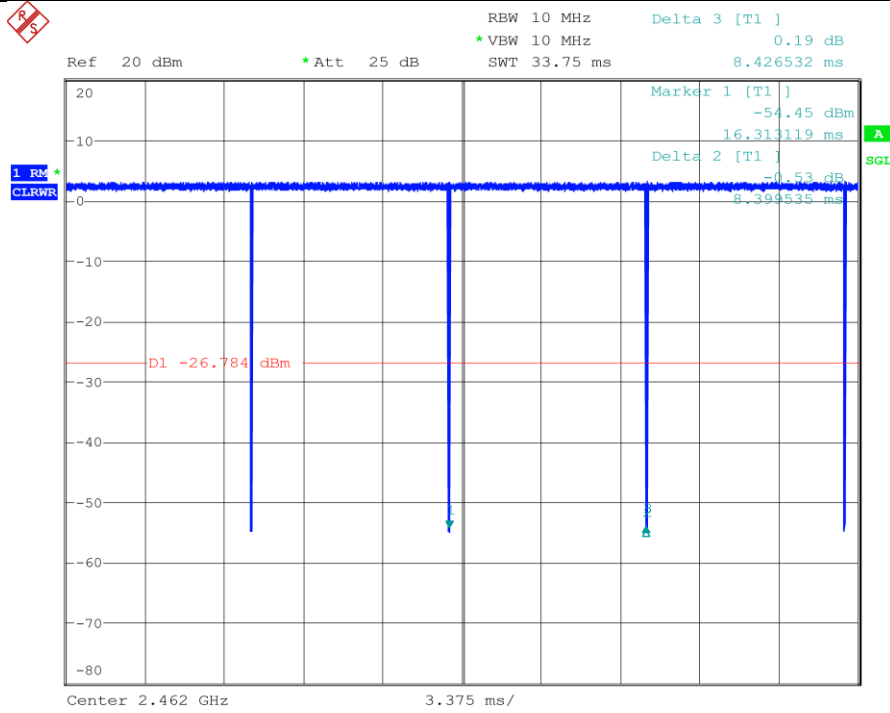
IEEE 802.11b_20MHz_Channel 11



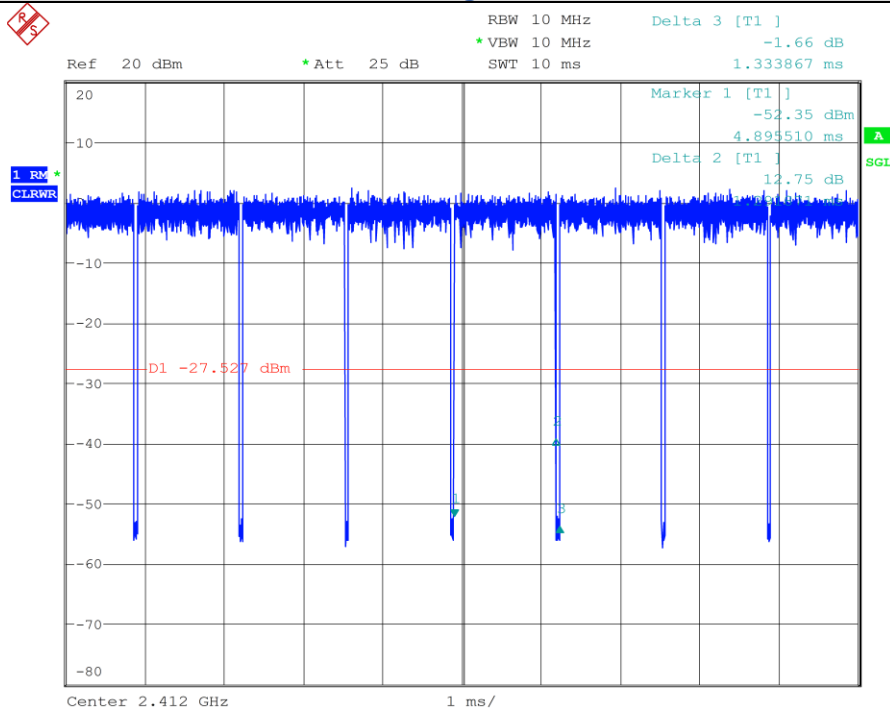
IEEE 802.11g_20MHz_Channel 1



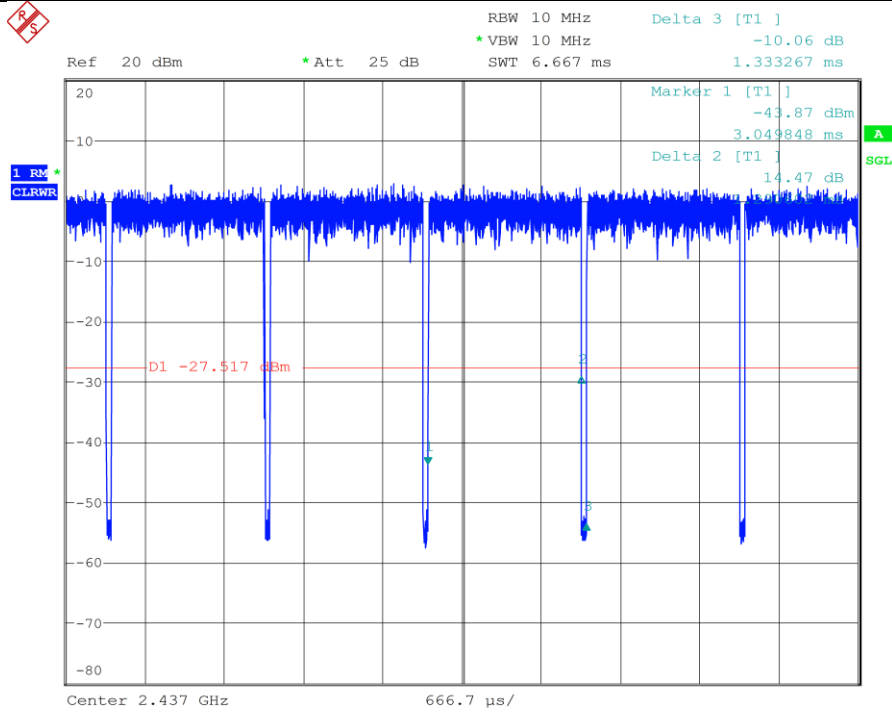
IEEE 802.11g_20MHz_Channel 6



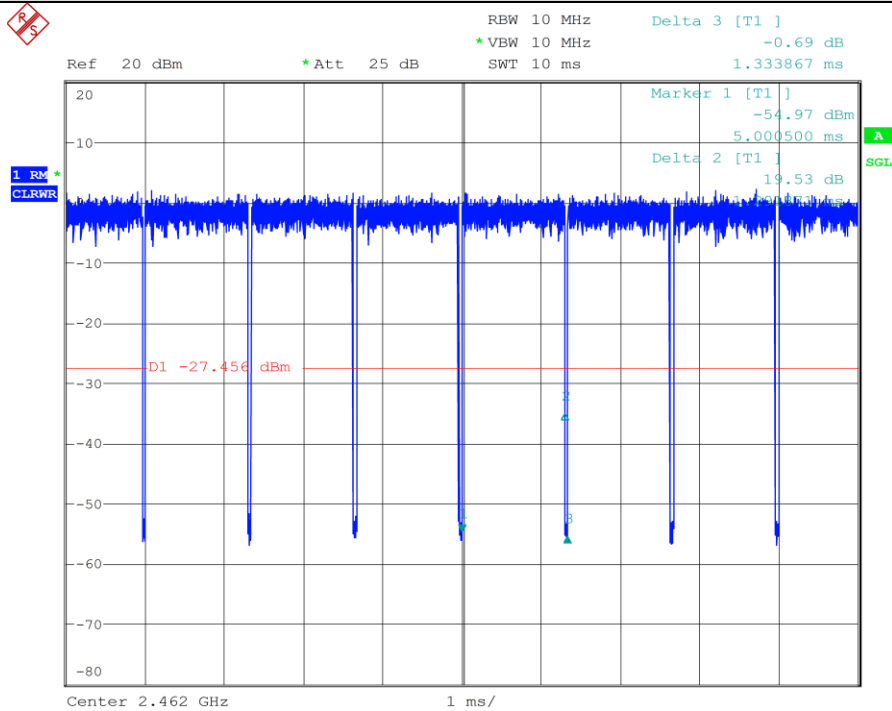
IEEE 802.11g_20MHz_Channel 11



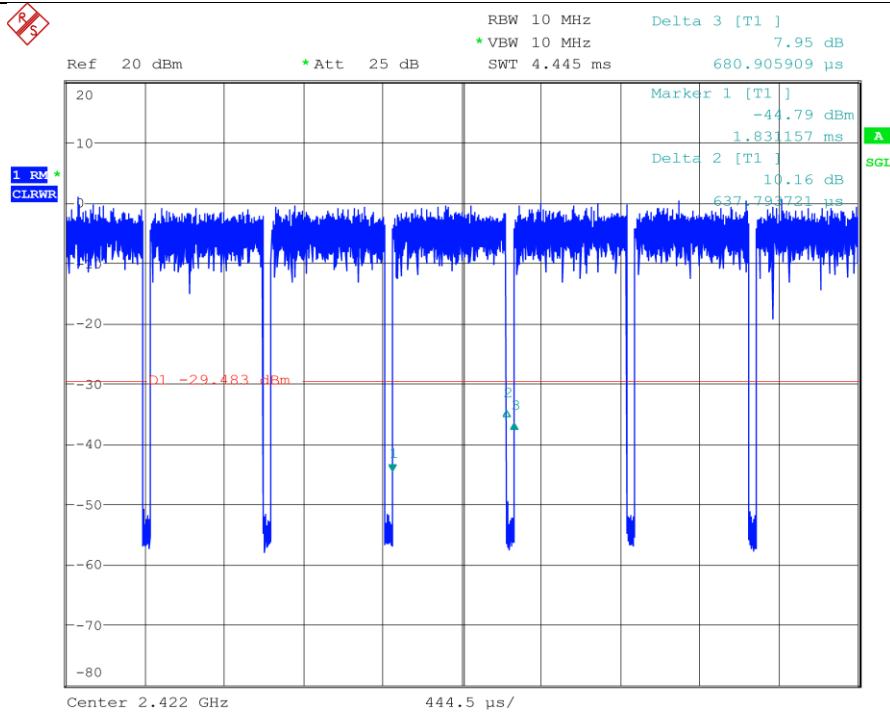
IEEE 802.11n_20MHz_Channel 1



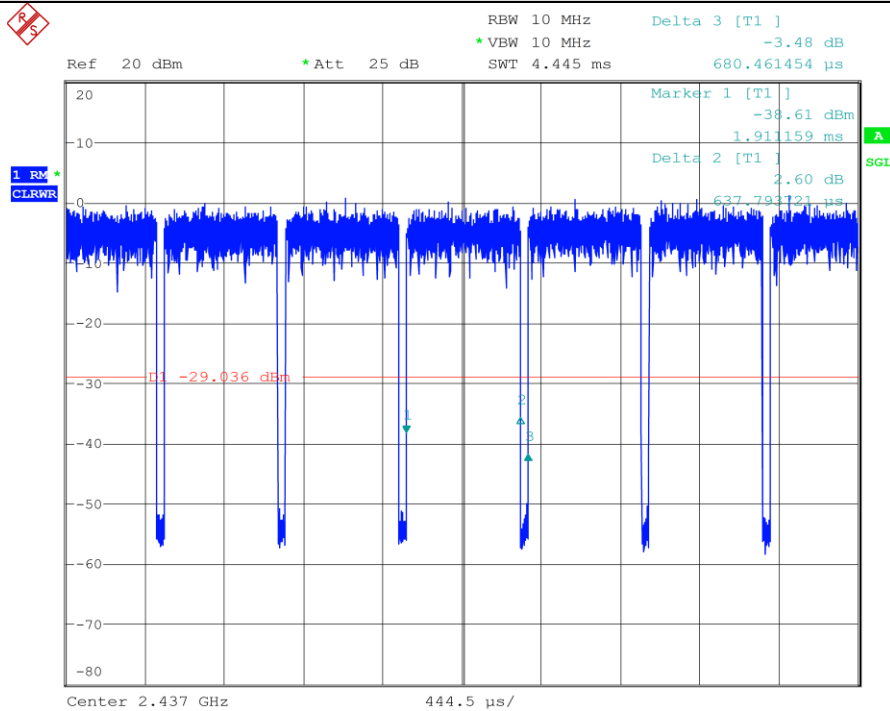
IEEE 802.11n_20MHz_Channel 6



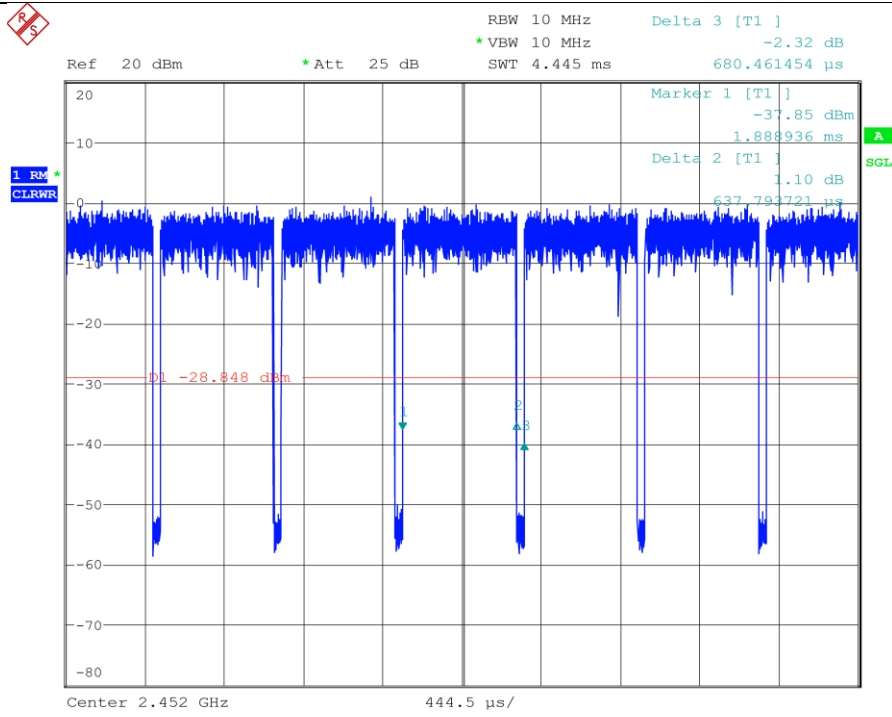
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6

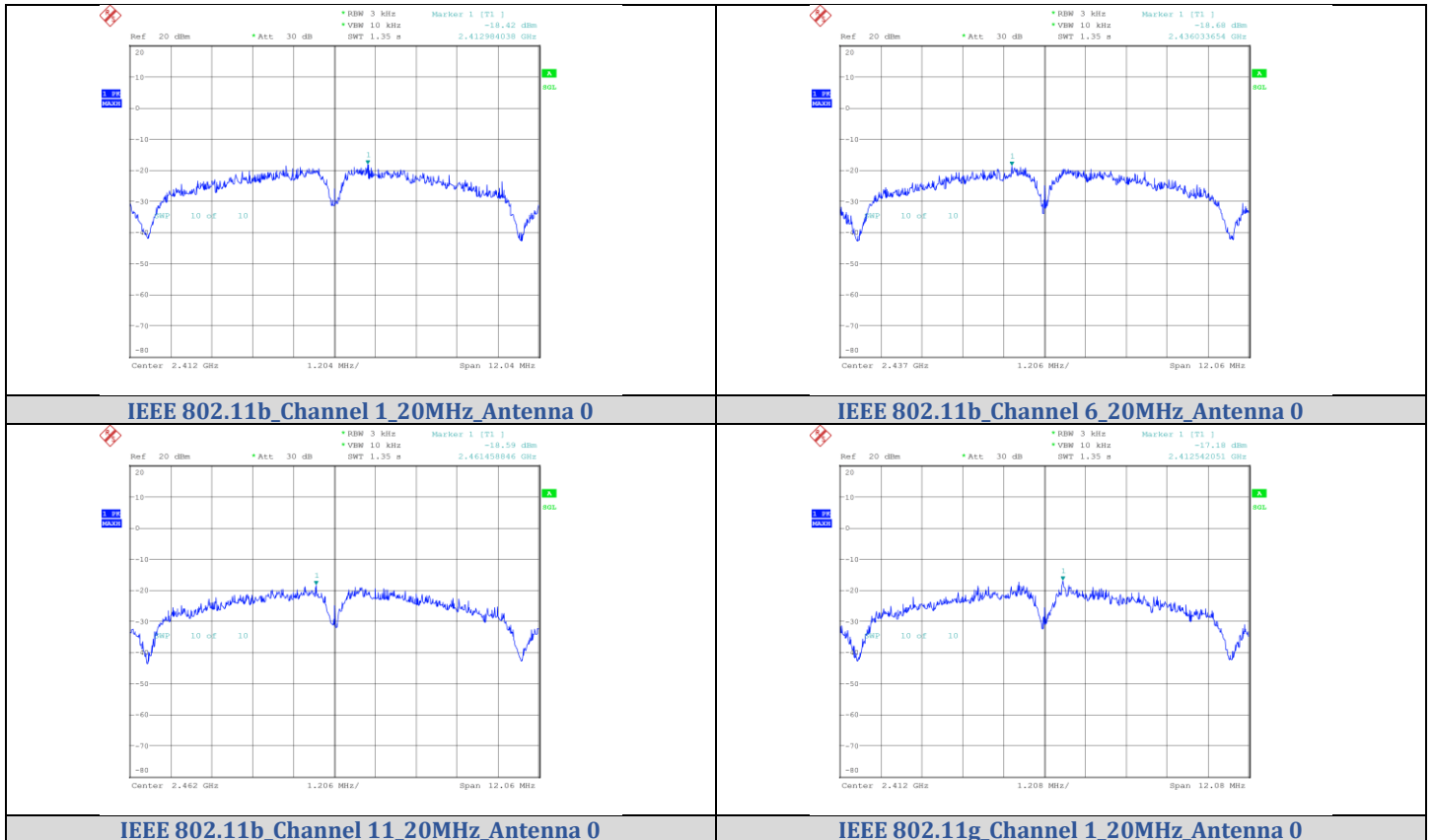


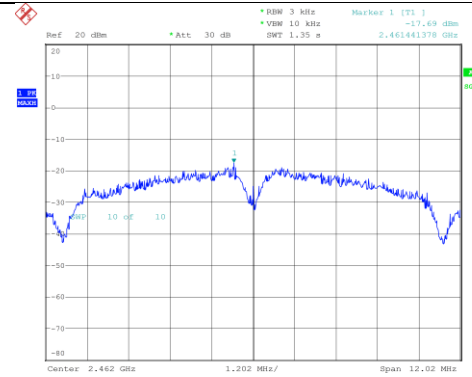
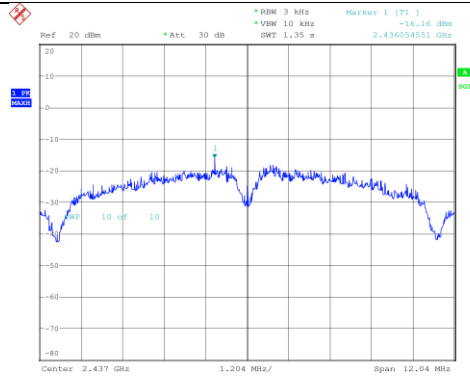
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-18.415	≤8	PASS
	6	-18.684		PASS
	11	-18.594		PASS
IEEE 802.11g	1	-17.177		PASS
	6	-16.161		PASS
	11	-17.690		PASS
IEEE 802.11n_20	1	-23.833		PASS
	6	-23.650		PASS
	11	-23.119		PASS
IEEE 802.11n_40	3	-26.971		PASS
	6	-26.764		PASS
	9	-26.753		PASS

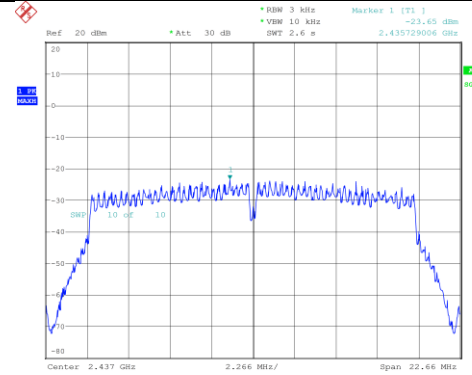
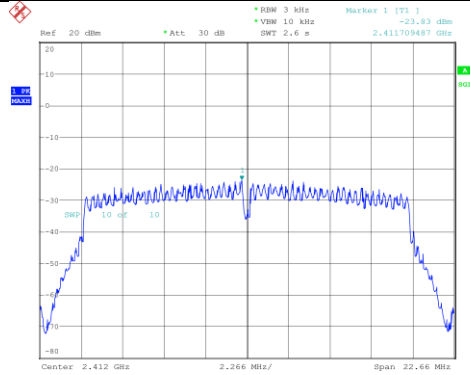
Test Graphs





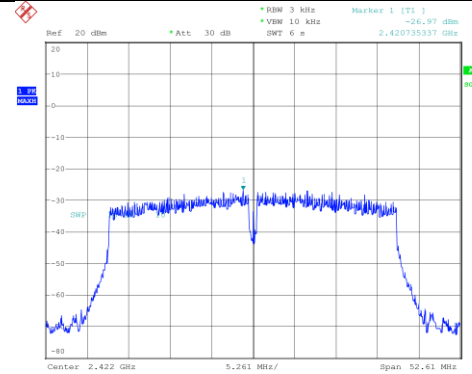
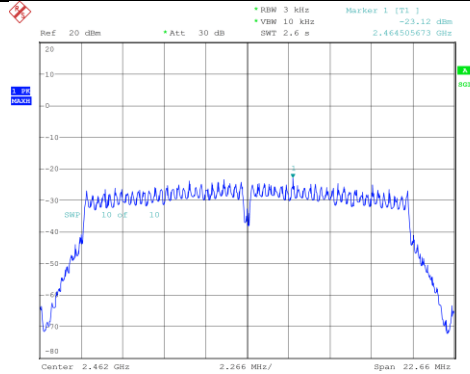
IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



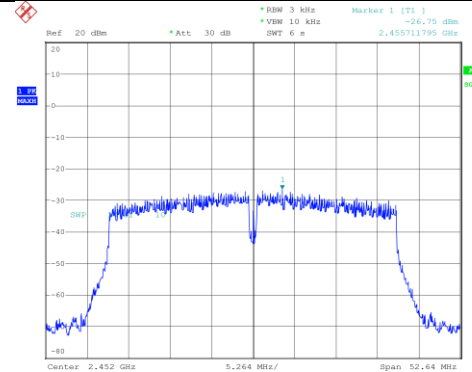
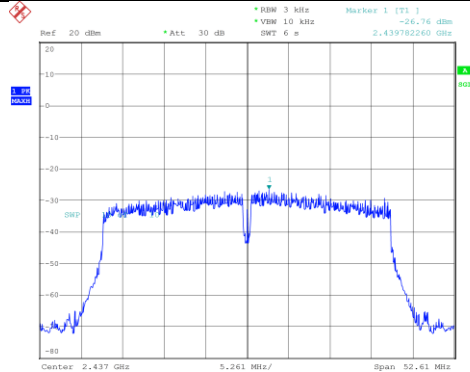
IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0

IEEE 802.11n_Channel 9_40MHz_Antenna 0