Conducted Output Power

Test Result

Conducted Output Power

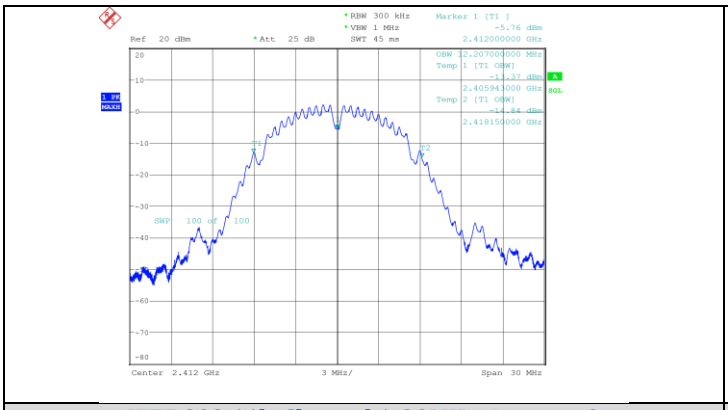
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	12.09	≤30	PASS
	6	9.39	≤30	PASS
	11	13.38	≤30	PASS
IEEE 802.11g	1	17.65	≤30	PASS
	6	16.78	≤30	PASS
	11	18.51	≤30	PASS
IEEE 802.11n_20	1	16.75	≤30	PASS
	6	16.15	≤30	PASS
	11	19.09	≤30	PASS
IEEE 802.11n_40	3	16.86	≤30	PASS
	6	16.11	≤30	PASS
	9	16.94	≤30	PASS

99% Bandwidth

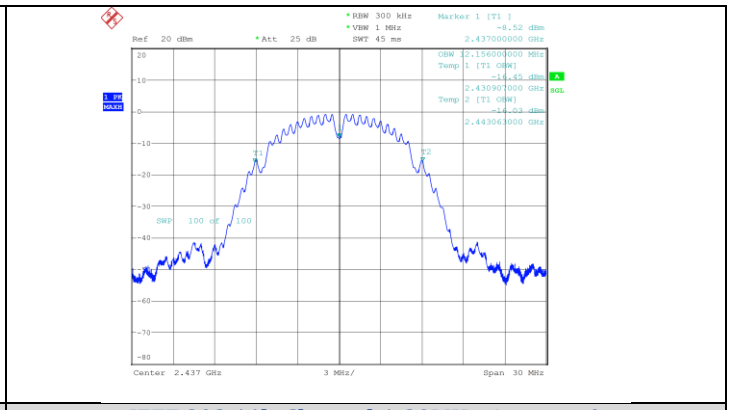
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.210
	6		2437	12.160
	11		2462	12.210
IEEE 802.11g	1		2412	17.860
	6		2437	18.160
	11		2462	18.320
IEEE 802.11n_20	1		2412	18.420
	6		2437	18.660
	11		2462	19.060
IEEE 802.11n_40	3		2422	19.300
	6		2437	19.430
	9		2452	21.910

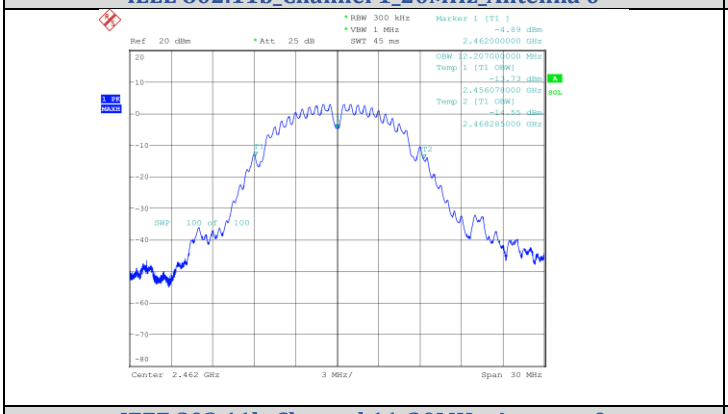
Test Graphs



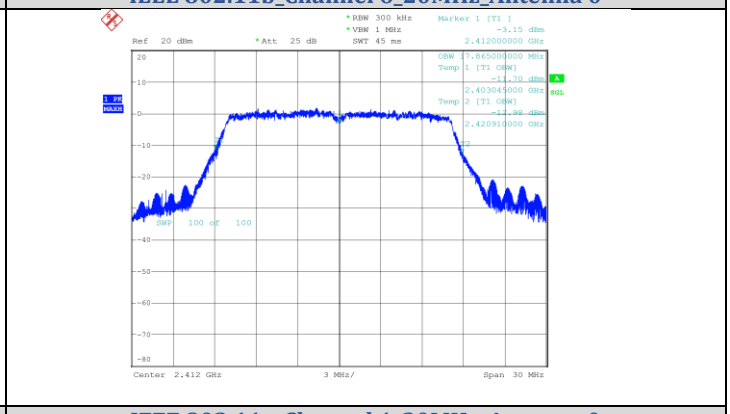
IEEE 802.11b_Channel 1_20MHz_Antenna 0



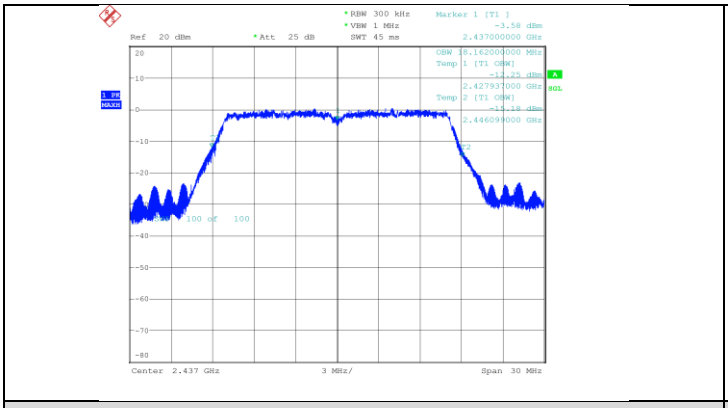
IEEE 802.11b_Channel 6_20MHz_Antenna 0



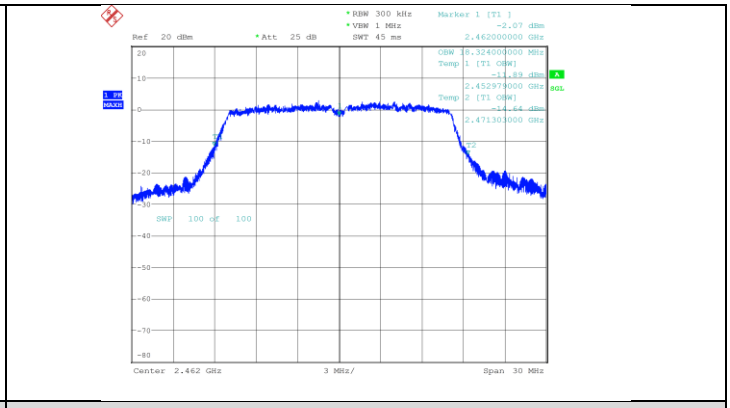
IEEE 802.11b_Channel 11_20MHz_Antenna 0



IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0



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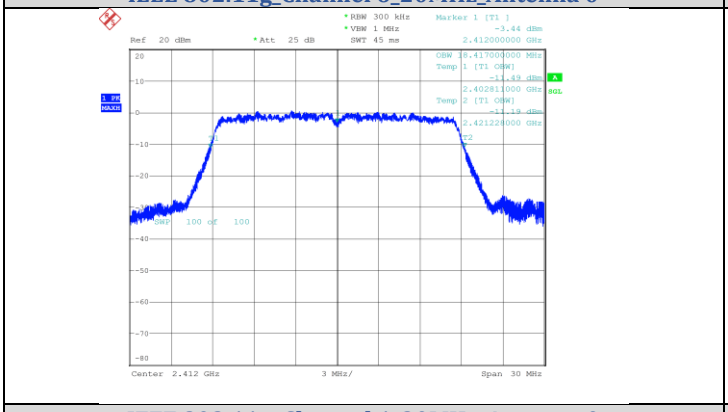
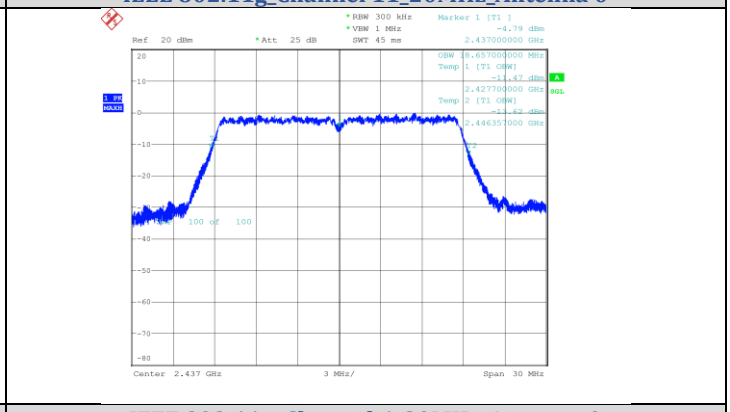
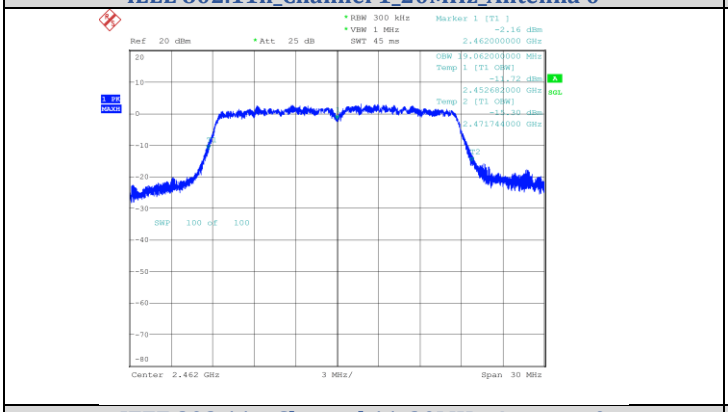


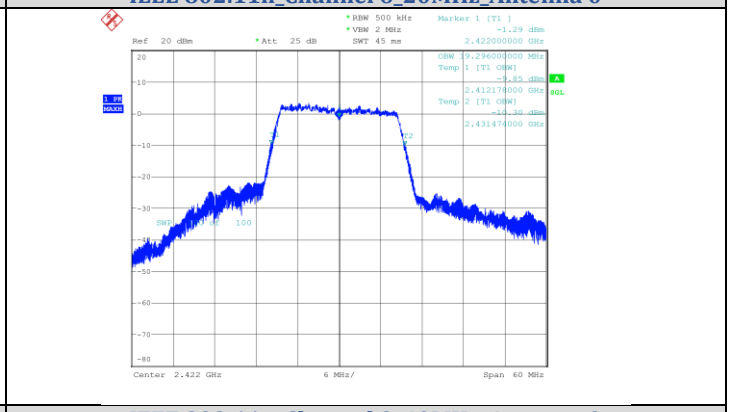
IEEE 802.11n_Channel 1_20MHz_Antenna 0



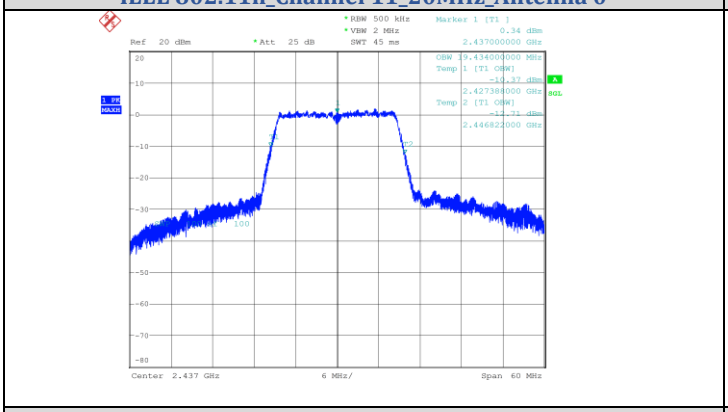
IEEE 802.11n_Channel 6_20MHz_Antenna 0



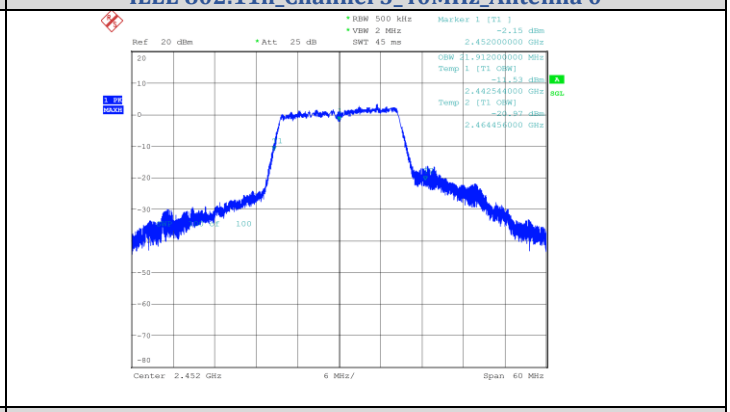
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



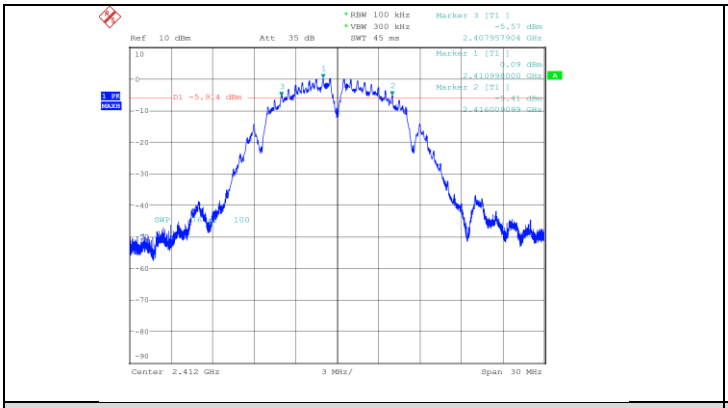
IEEE 802.11n_Channel 9_40MHz_Antenna 0

6dB Bandwidth

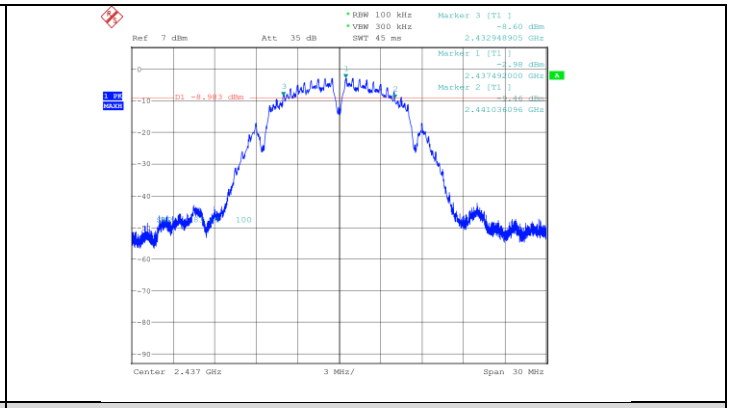
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.050	≥0.5	PASS
	6		2437	8.090		PASS
	11		2462	8.070		PASS
IEEE 802.11g	1		2412	16.30		PASS
	6		2437	16.33		PASS
	11		2462	16.05		PASS
IEEE 802.11n_20	1		2412	17.27		PASS
	6		2437	17.58		PASS
	11		2462	17.02		PASS
IEEE 802.11n_40	3		2422	16.35		PASS
	6		2437	17.56		PASS
	9		2452	17.28		PASS

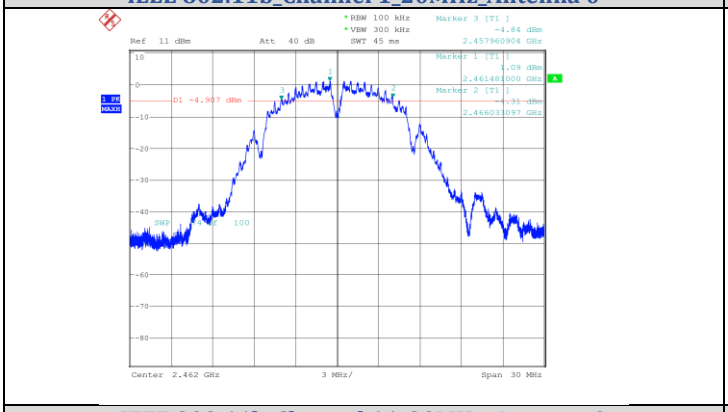
Test Graphs



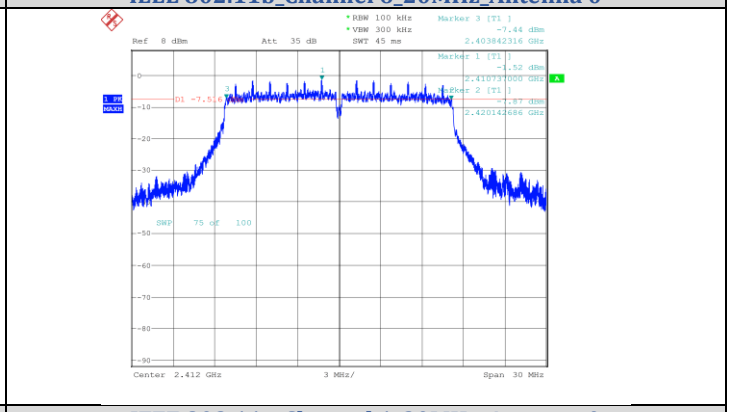
IEEE 802.11b_Channel 1_20MHz_Antenna 0



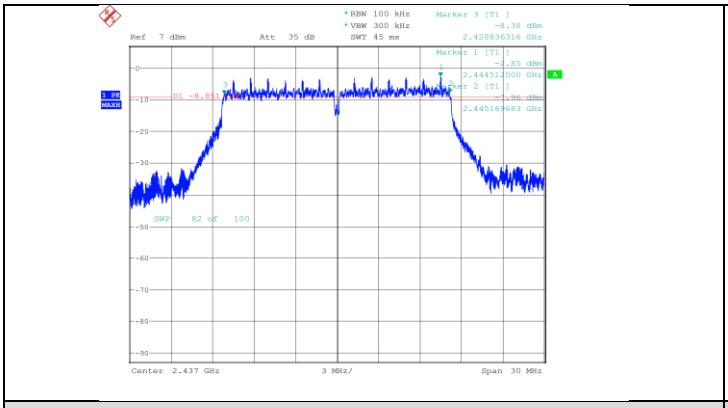
IEEE 802.11b_Channel 6_20MHz_Antenna 0



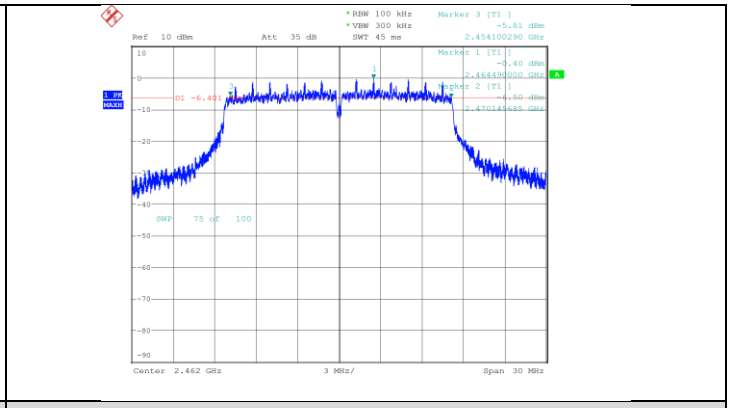
IEEE 802.11b_Channel 11_20MHz_Antenna 0



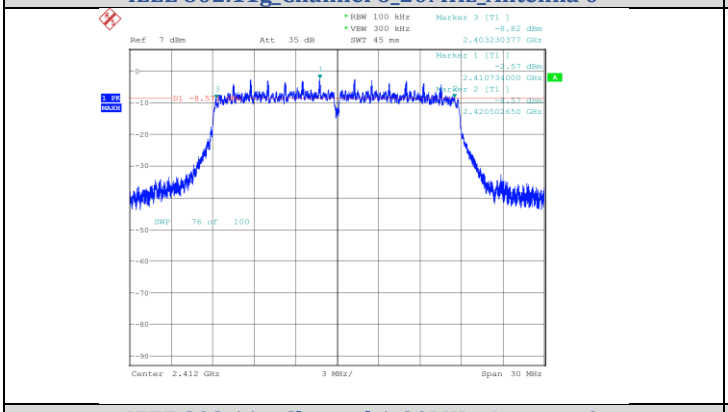
IEEE 802.11g_Channel 1_20MHz_Antenna 0



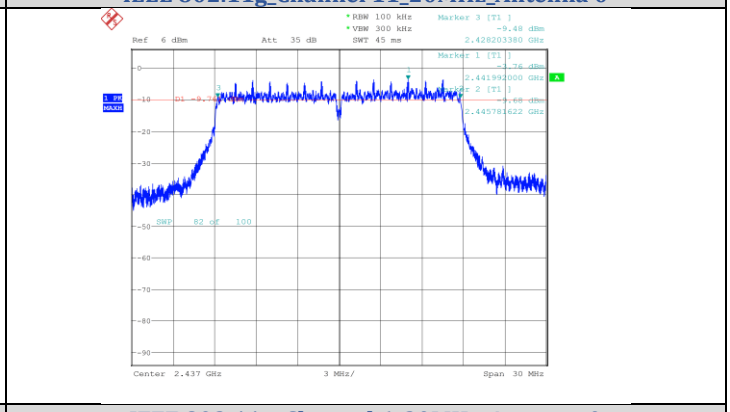
IEEE 802.11g_Channel 6_20MHz_Antenna 0



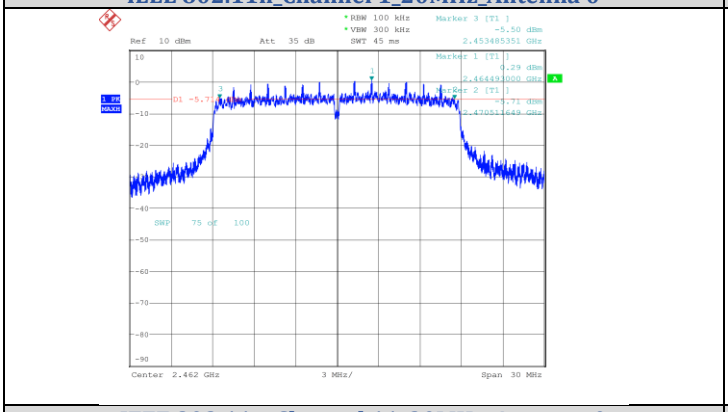
IEEE 802.11g_Channel 11_20MHz_Antenna 0



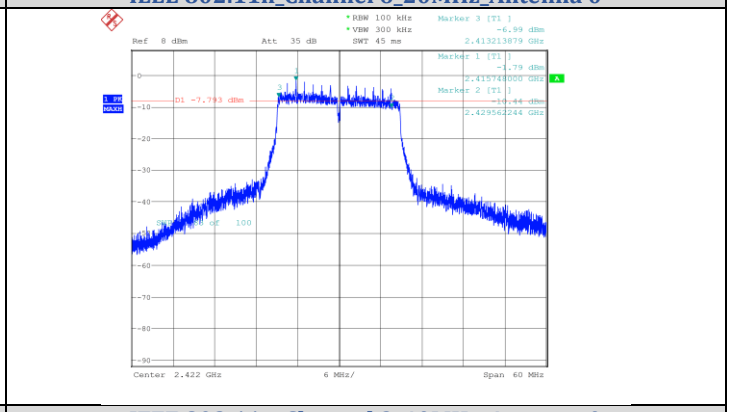
IEEE 802.11n_Channel 1_20MHz_Antenna 0



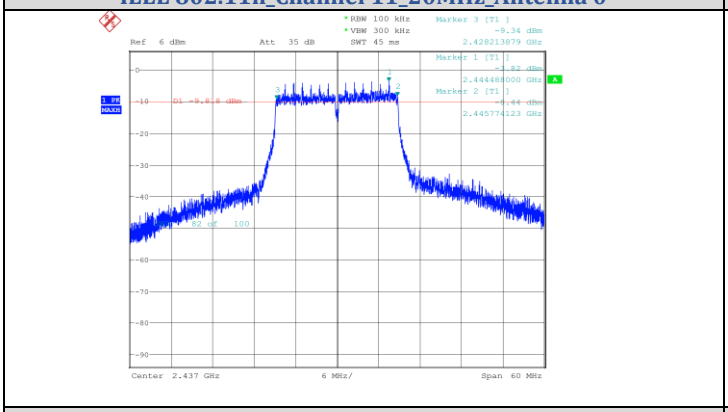
IEEE 802.11n_Channel 6_20MHz_Antenna 0



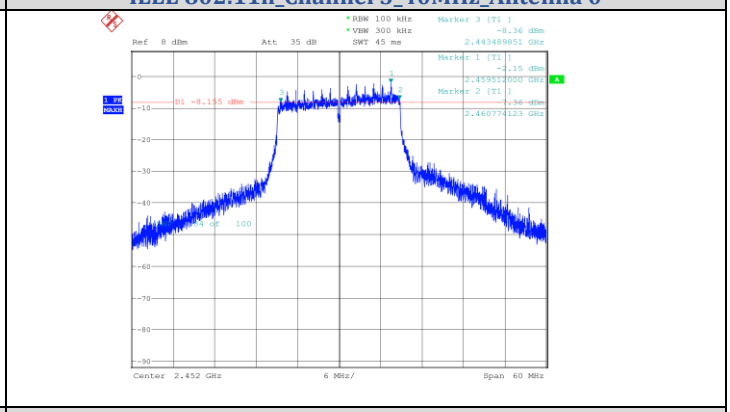
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

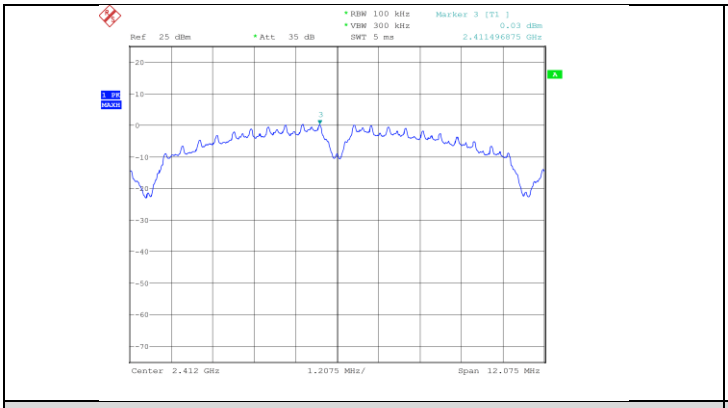
Conducted Out Of Band Emission

Test Result

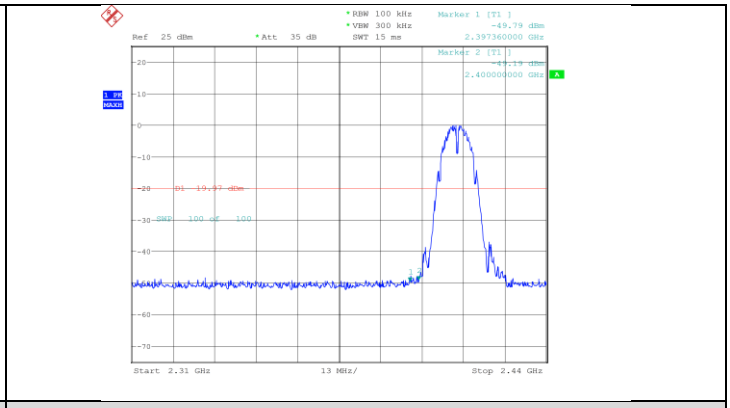
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2397.36	-47.806	-19.97	-27.836	PASS
			2400.00	-49.192	-19.97	-29.222	PASS
			4819.10	-38.644	-19.97	-18.674	PASS
			7249.40	-38.817	-19.97	-18.847	PASS
			9647.30	-37.857	-19.97	-17.887	PASS
			24762.0	-32.932	-19.97	-12.962	PASS
	6		4861.53	-39.619	-22.95	-16.669	PASS
			7303.52	-38.811	-22.95	-15.861	PASS
			9741.34	-38.269	-22.95	-15.319	PASS
			24538.9	-32.533	-22.95	-9.583	PASS
	11		2483.50	-49.500	-18.95	-30.550	PASS
			4925.62	-39.554	-18.95	-20.604	PASS
			7390.08	-38.469	-18.95	-19.519	PASS
			9842.88	-37.511	-18.95	-18.561	PASS
			24472.3	-32.666	-18.95	-13.716	PASS
IEEE 802.11g	1		2398.61	-32.538	-21.64	-10.898	PASS
			2400.00	-33.782	-21.64	-12.142	PASS
			4817.40	-38.028	-21.64	-16.388	PASS
			7219.50	-39.269	-21.64	-17.629	PASS
			9658.90	-38.358	-21.64	-16.718	PASS
			24637.9	-32.065	-21.64	-10.425	PASS
	6		4859.87	-39.613	-22.96	-16.653	PASS
			7326.82	-38.938	-22.96	-15.978	PASS
			9758.82	-38.231	-22.96	-15.271	PASS
			24532.2	-33.260	-22.96	-10.300	PASS
	11		2483.50	-41.126	-20.35	-20.776	PASS
			4943.10	-37.849	-20.35	-17.499	PASS
			7378.43	-39.227	-20.35	-18.877	PASS
			9832.90	-37.968	-20.35	-17.618	PASS
			24642.9	-33.534	-20.35	-13.184	PASS
IEEE 802.11n_20	1		2398.82	-34.954	-22.65	-12.304	PASS
			2400.00	-35.613	-22.65	-12.963	PASS
			4821.60	-39.081	-22.65	-16.431	PASS
			7248.60	-38.820	-22.65	-16.170	PASS
			9635.60	-37.806	-22.65	-15.156	PASS
			24560.5	-33.486	-22.65	-10.836	PASS
	6		4873.19	-39.221	-23.73	-15.491	PASS
			7299.36	-38.442	-23.73	-14.712	PASS
			9765.48	-38.871	-23.73	-15.141	PASS
			24697.0	-33.108	-23.73	-9.378	PASS
	11		2483.50	-37.442	-19.86	-17.582	PASS
			4942.27	-39.272	-19.86	-19.412	PASS
			7380.09	-38.715	-19.86	-18.855	PASS
			9829.57	-36.710	-19.86	-16.850	PASS
			24621.3	-32.091	-19.86	-12.231	PASS
IEEE 802.11n_40	3		2400.00	-43.411	-22.06	-21.351	PASS
			4838.23	-39.281	-22.06	-17.221	PASS
			7226.95	-38.563	-22.06	-16.503	PASS
			9690.57	-37.617	-22.06	-15.557	PASS
			24594.7	-33.117	-22.06	-11.057	PASS
	6		4839.89	-38.920	-23.75	-15.170	PASS
			7313.51	-38.038	-23.75	-14.288	PASS

			9726.36	-38.083	-23.75	-14.333	PASS
			24556.4	-32.660	-23.75	-8.910	PASS
	9		2483.50	-47.806	-22.28	-25.526	PASS
			4943.10	-39.730	-22.28	-17.450	PASS
			7339.31	-38.059	-22.28	-15.779	PASS
			9842.05	-36.614	-22.28	-14.334	PASS
			24078.6	-33.654	-22.28	-11.374	PASS

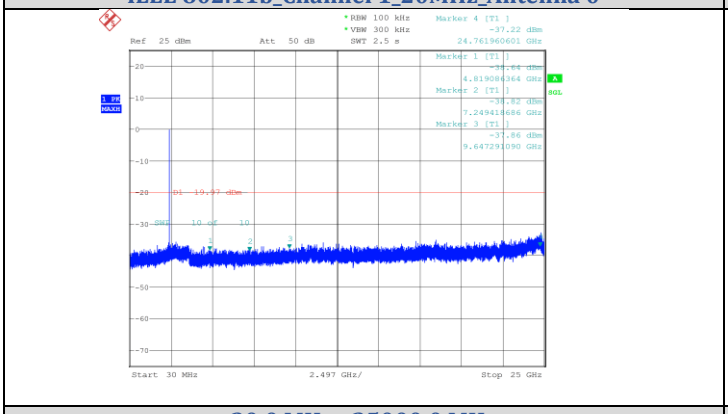
Test Graphs



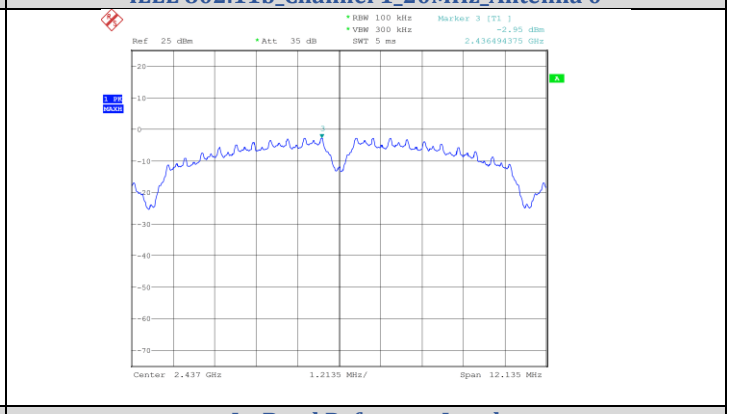
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



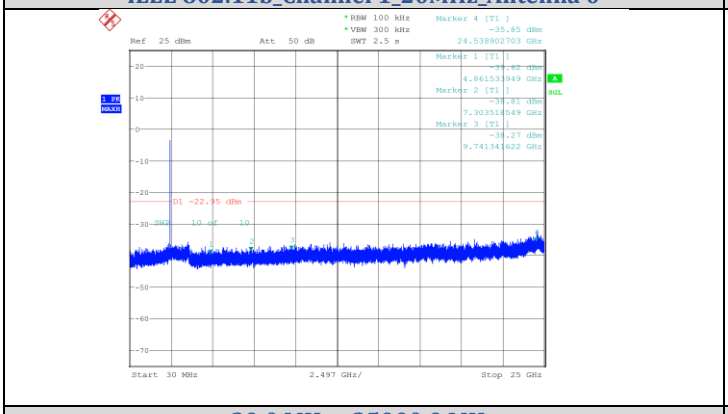
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



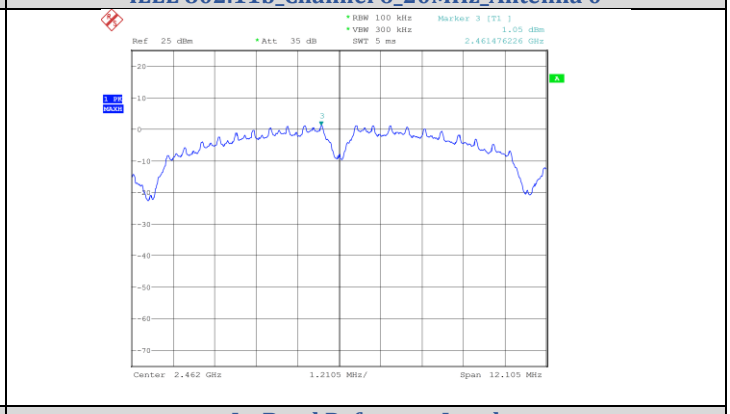
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



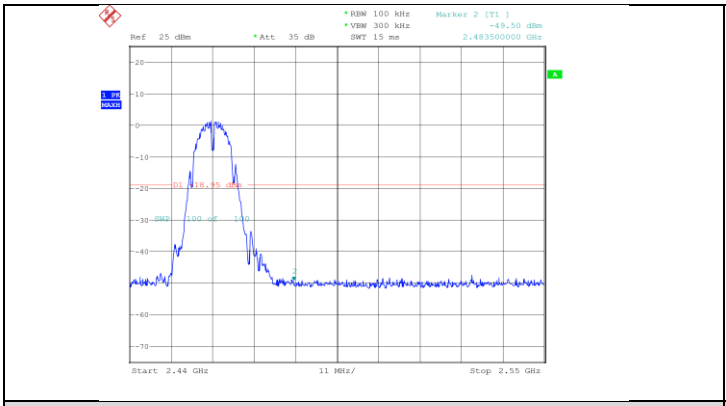
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



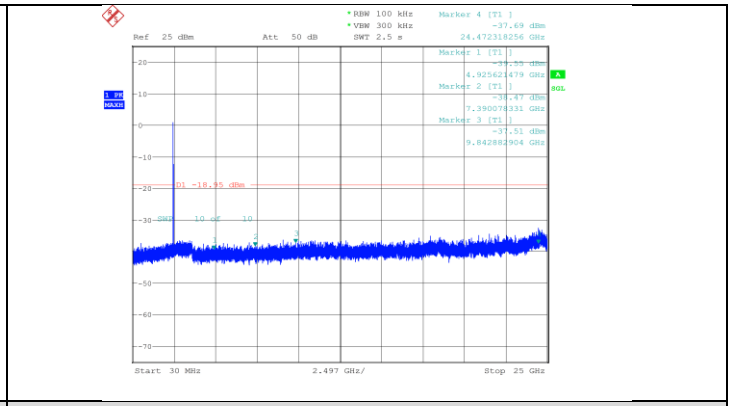
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



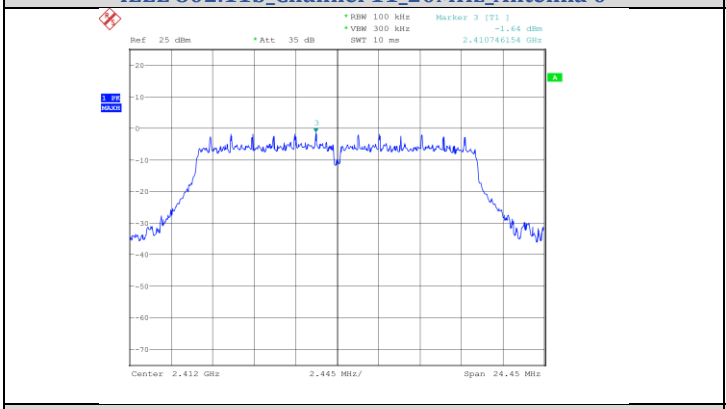
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



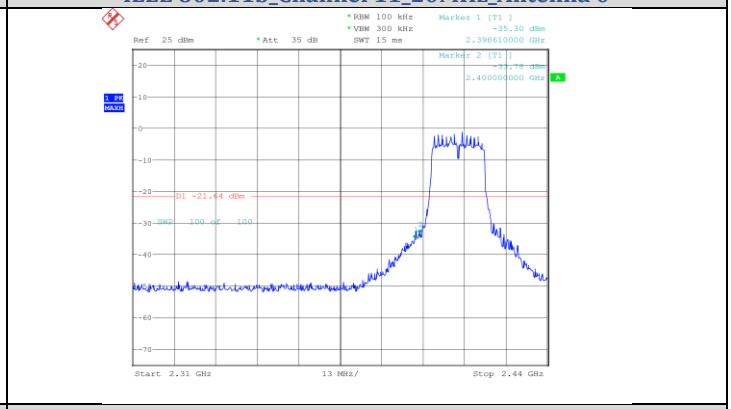
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



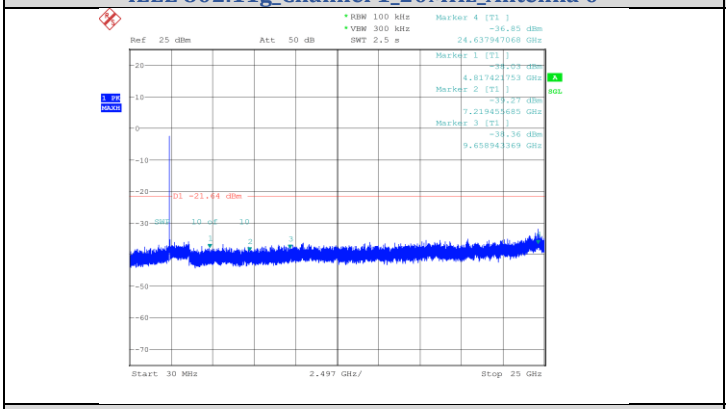
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



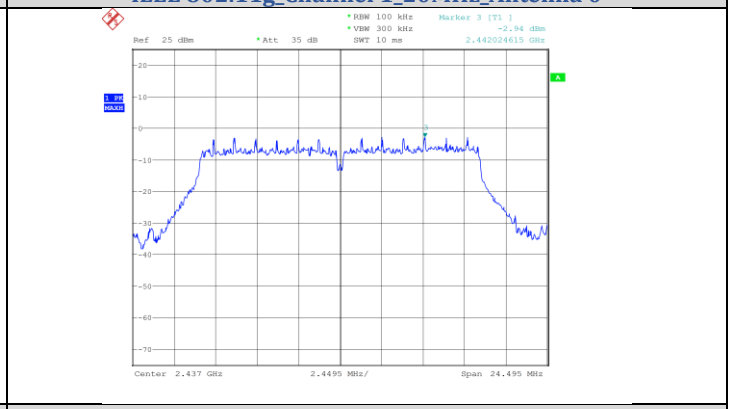
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



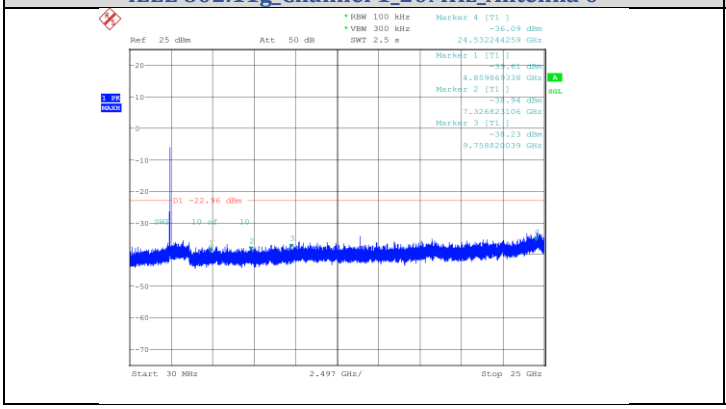
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0

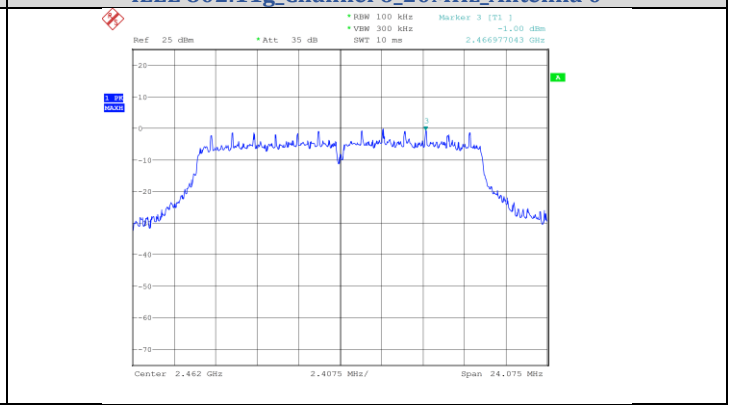


30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0

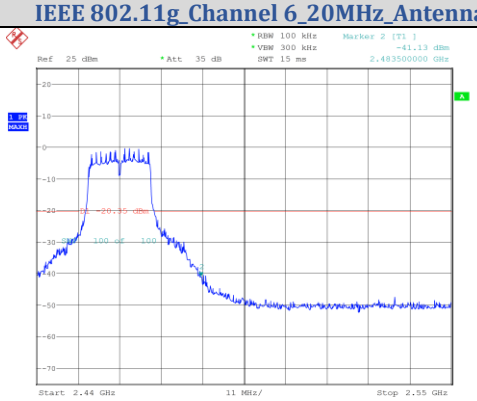


In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0

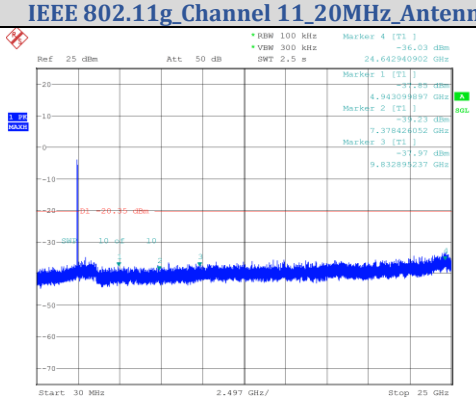




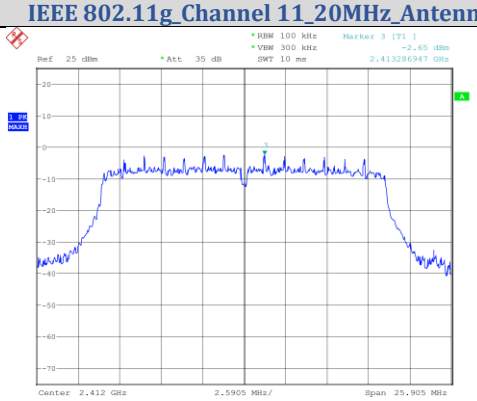
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



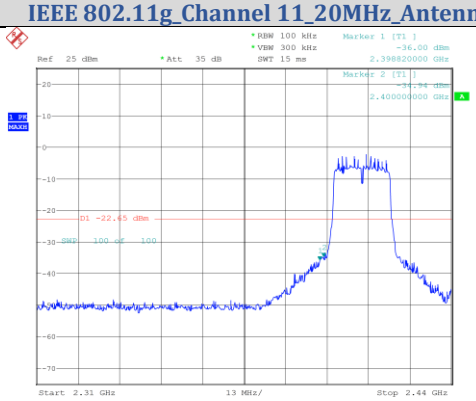
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



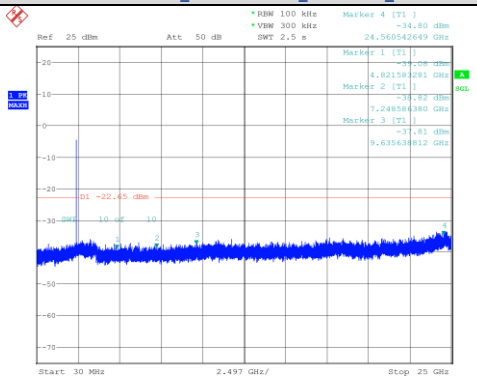
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



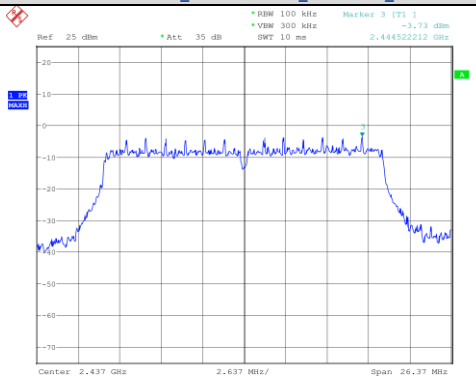
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0

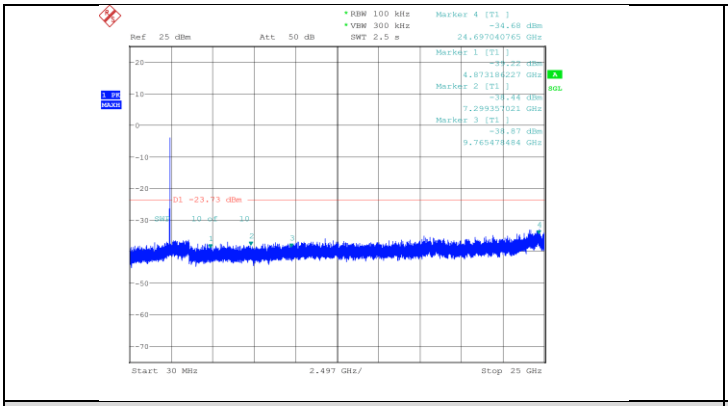


Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0

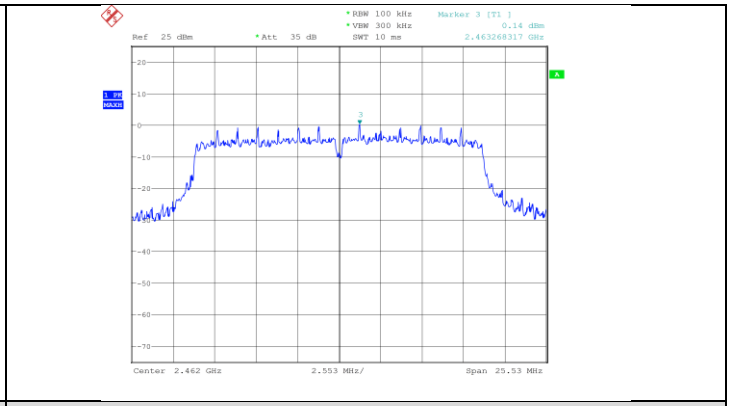


30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0

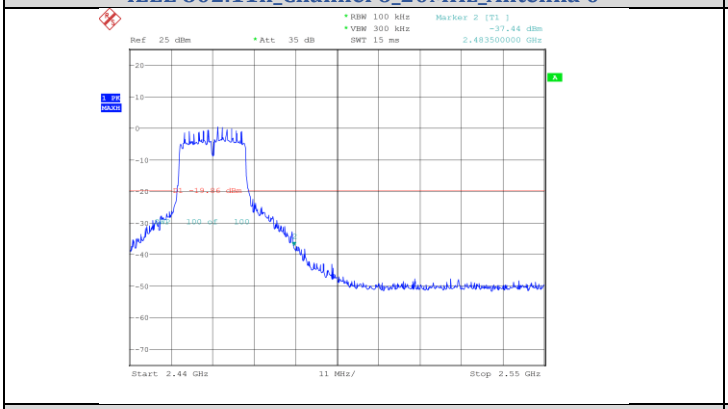
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



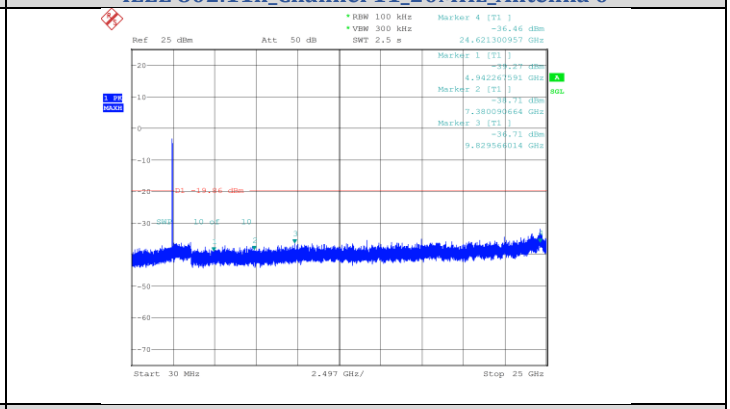
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



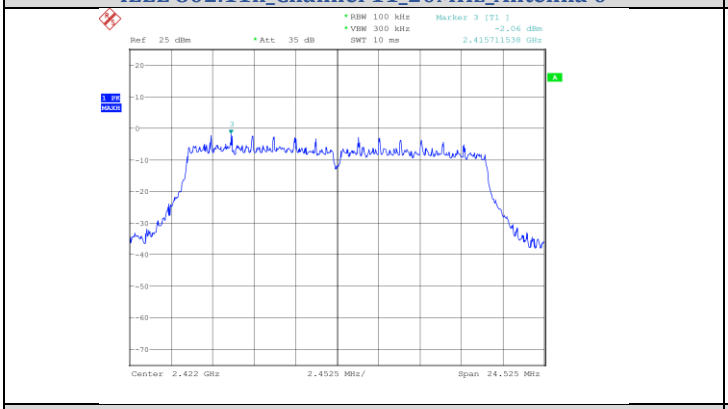
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



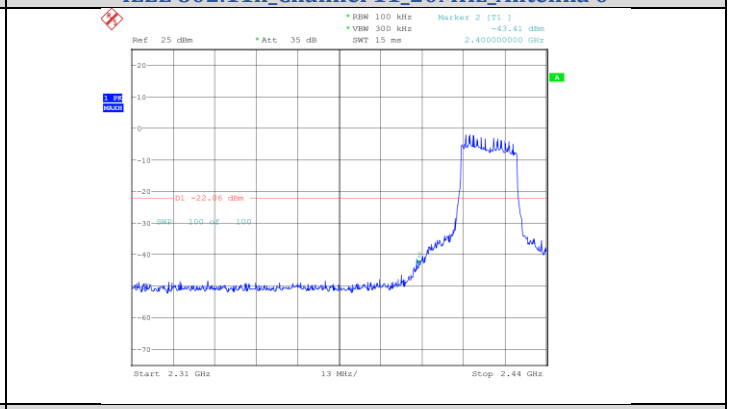
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



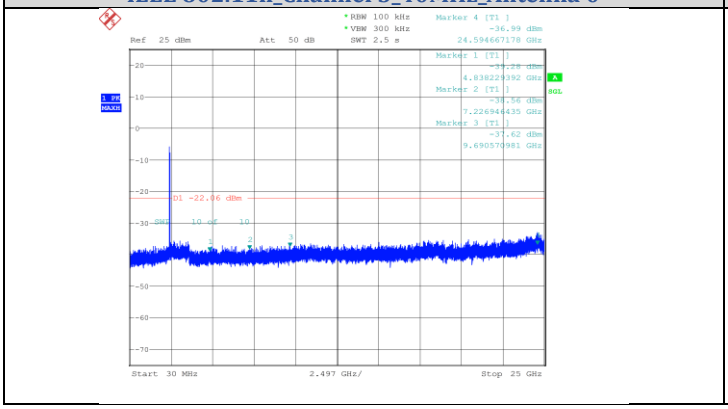
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0

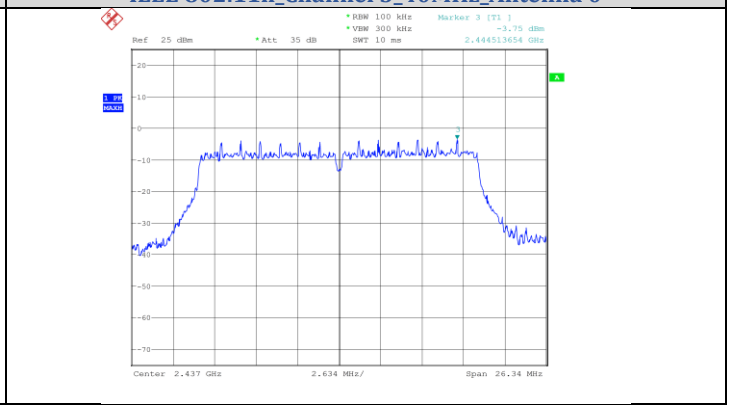


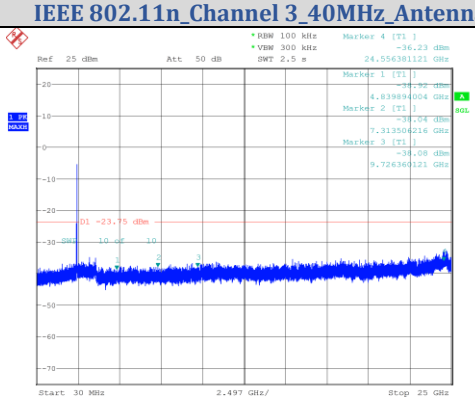
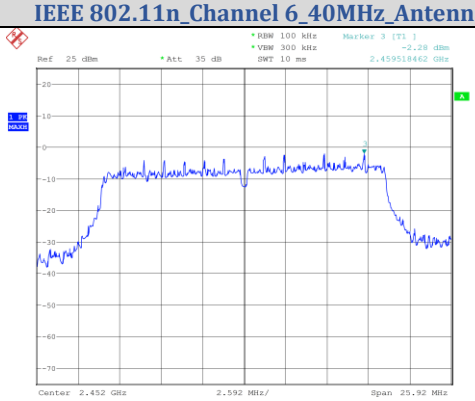
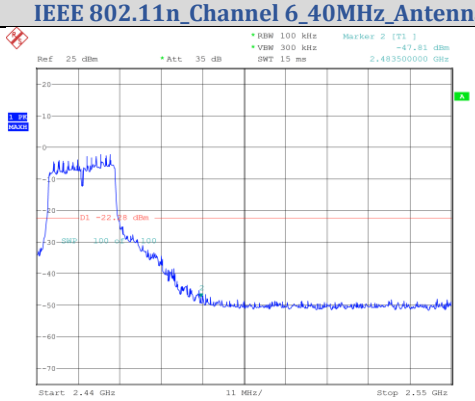
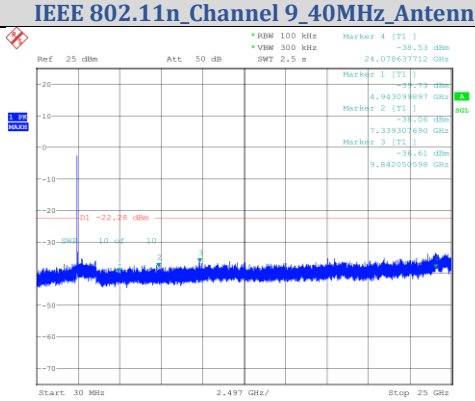
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0





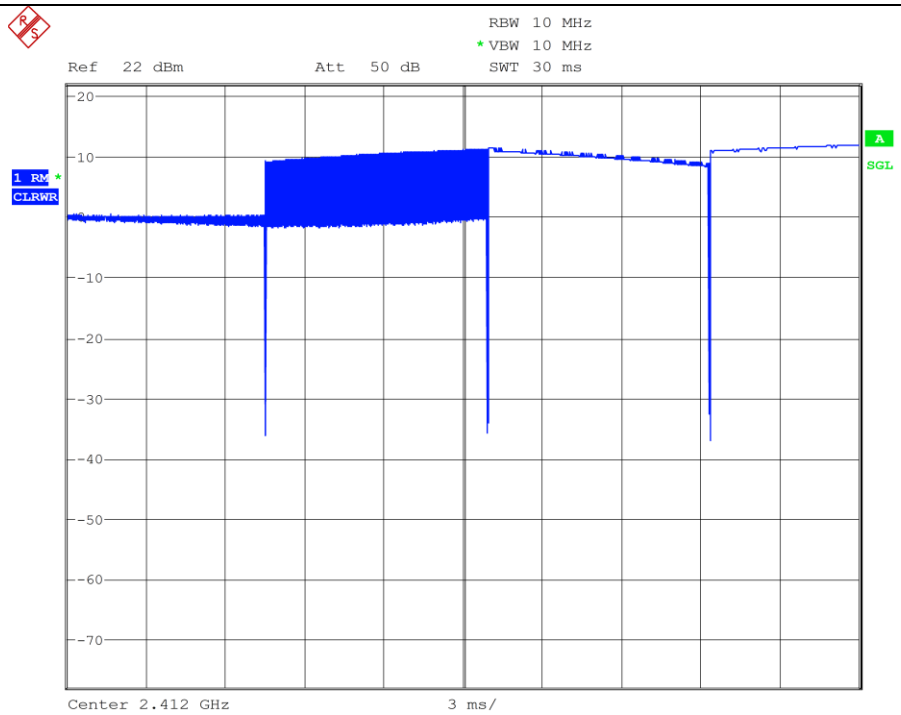
30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 3_40MHz_Antenna 0	In-Band Reference Level IEEE 802.11n_Channel 6_40MHz_Antenna 0
	
30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 6_40MHz_Antenna 0	**In-Band Reference Level IEEE 802.11n_Channel 9_40MHz_Antenna 0**
	
Out Of Band Emission IEEE 802.11n_Channel 9_40MHz_Antenna 0	**30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 9_40MHz_Antenna 0**

Duty Cycle

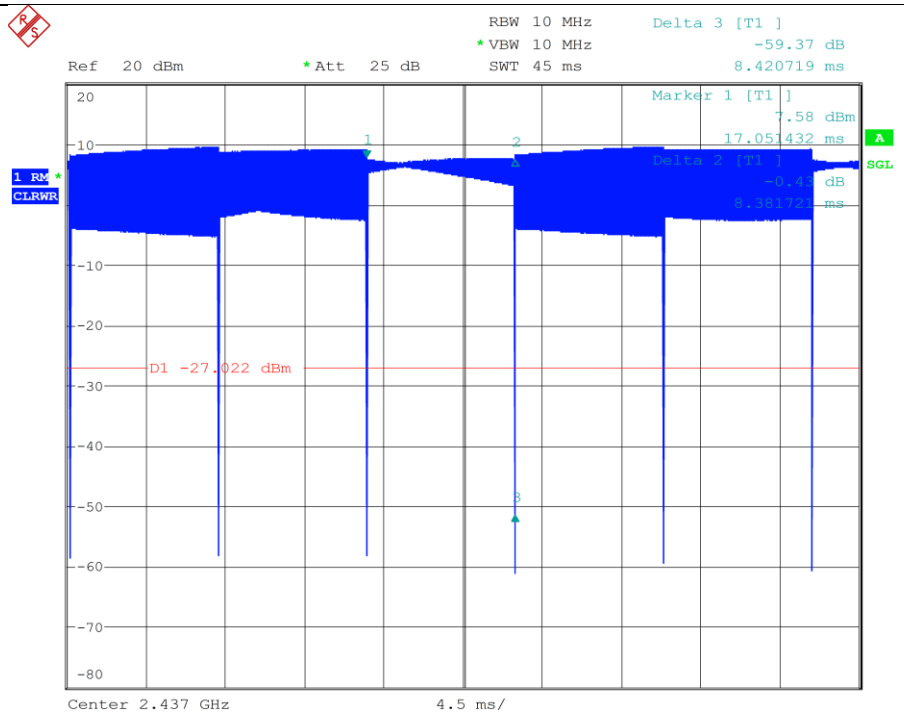
Test Result

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	30.000	30.000	100	1	0.0
		6		8.382	8.421	99.54	0.9954	0.02
		11		30.000	30.000	100	1	0.0
IEEE 802.11g		1		1.397	1.473	94.84	0.9484	0.2301
		6		1.397	1.428	97.83	0.9783	0.0953
		11		1.396	1.427	97.83	0.9783	0.0953
IEEE 802.11n_20	MCS 0	1		1.303	1.335	97.65	0.9765	0.1033
		6		1.304	1.335	97.68	0.9768	0.1019
		11		1.304	1.344	97.02	0.9702	0.1314
IEEE 802.11n_40		3		1.303	1.335	97.65	0.9765	0.1033
		6		1.304	1.344	97.02	0.9702	0.1314
		9		1.303	1.343	96.97	0.9697	0.1336

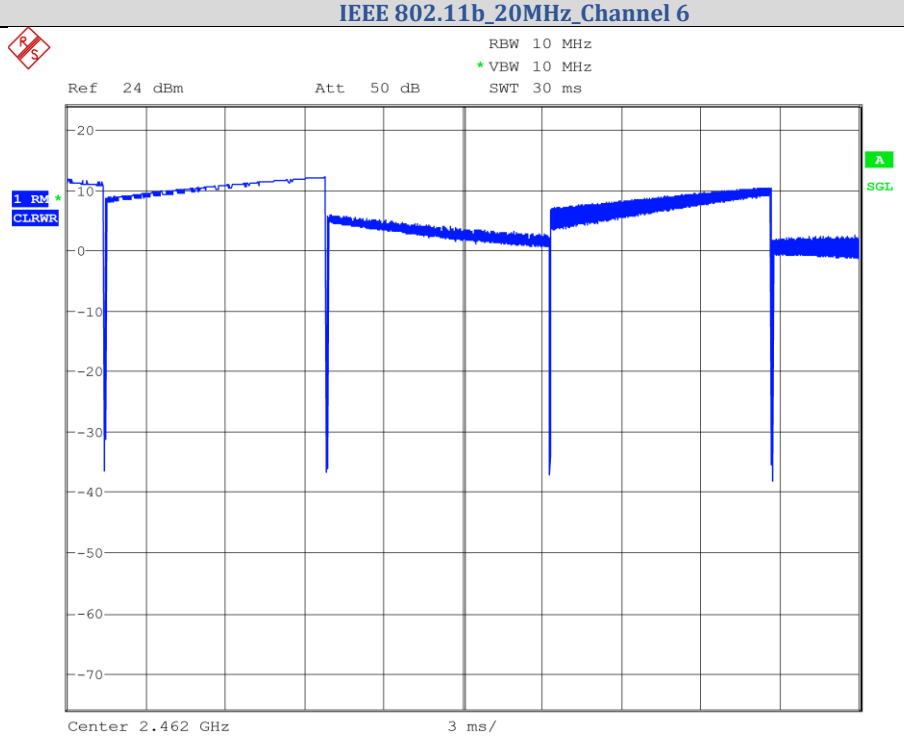
Test Graphs



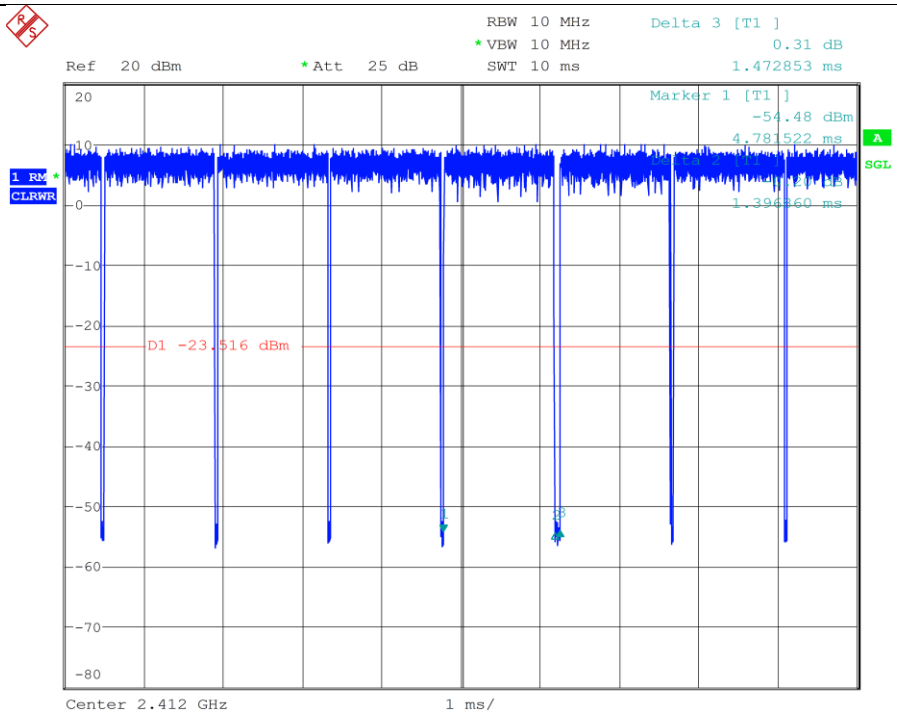
IEEE 802.11b_20MHz_Channel 1



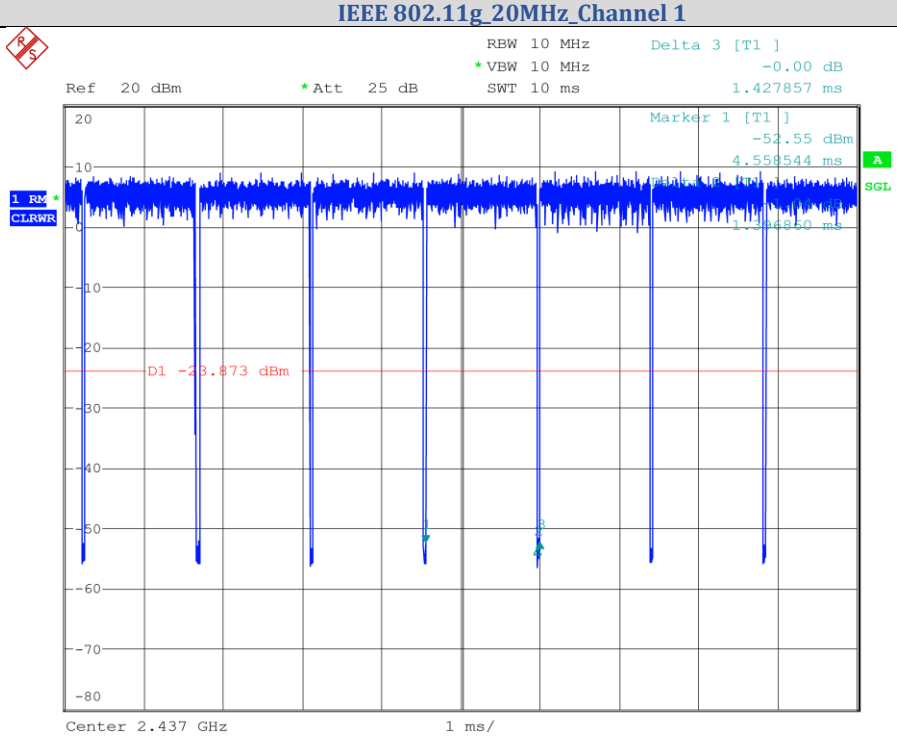
IEEE 802.11b_20MHz_Channel 6



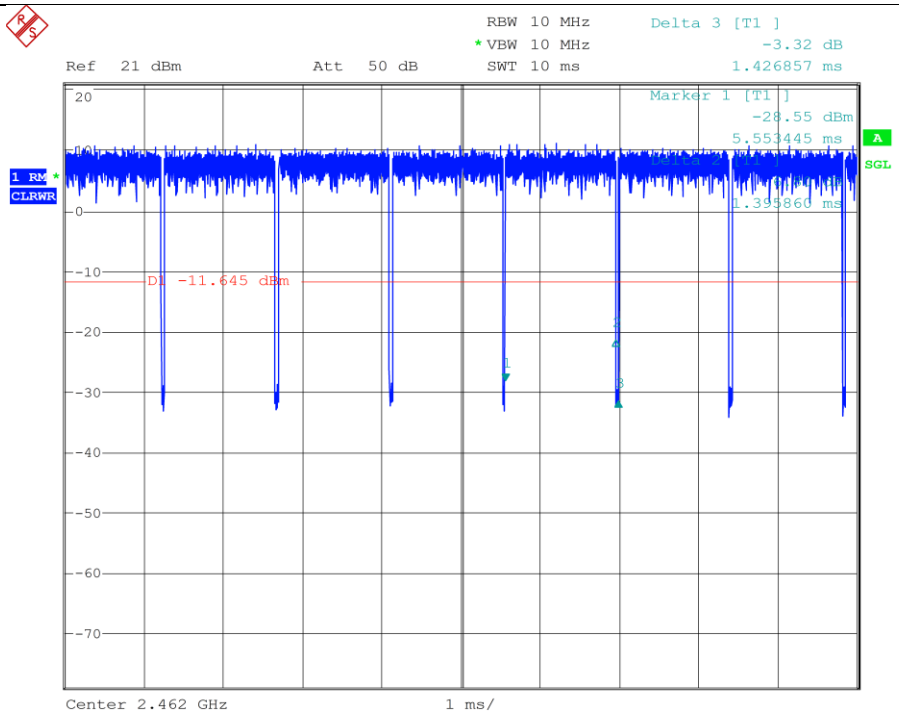
IEEE 802.11b_20MHz_Channel 11



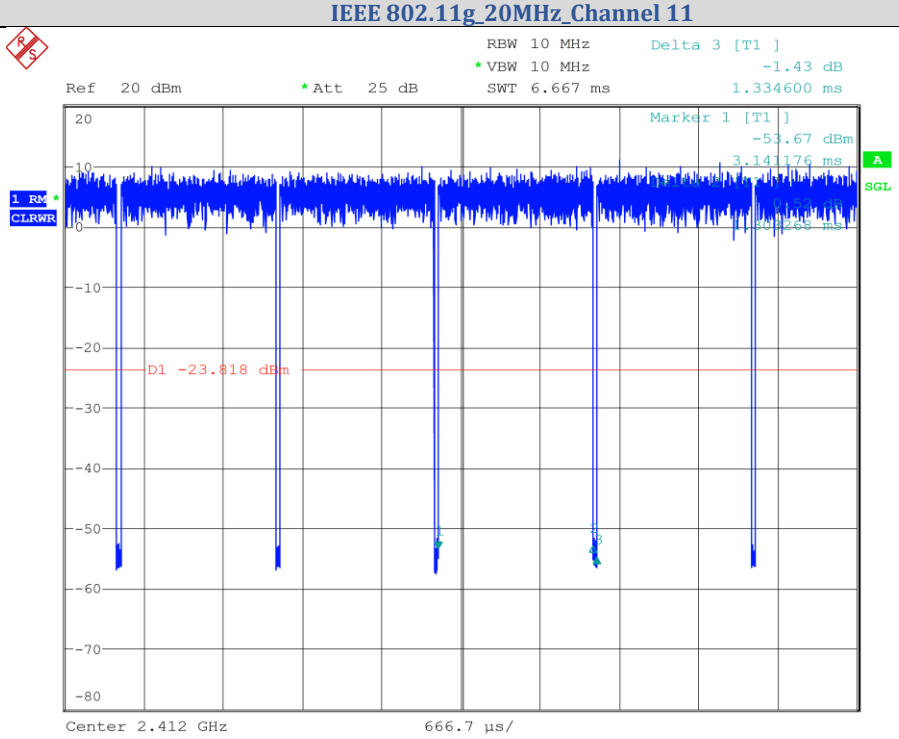
IEEE 802.11g_20MHz_Channel 1



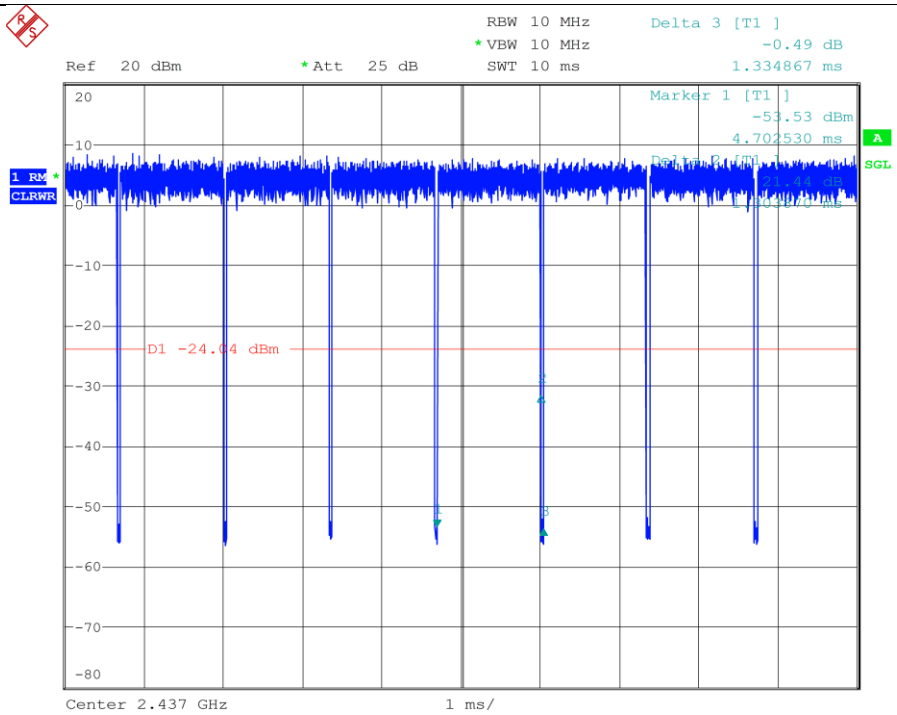
IEEE 802.11g_20MHz_Channel 6



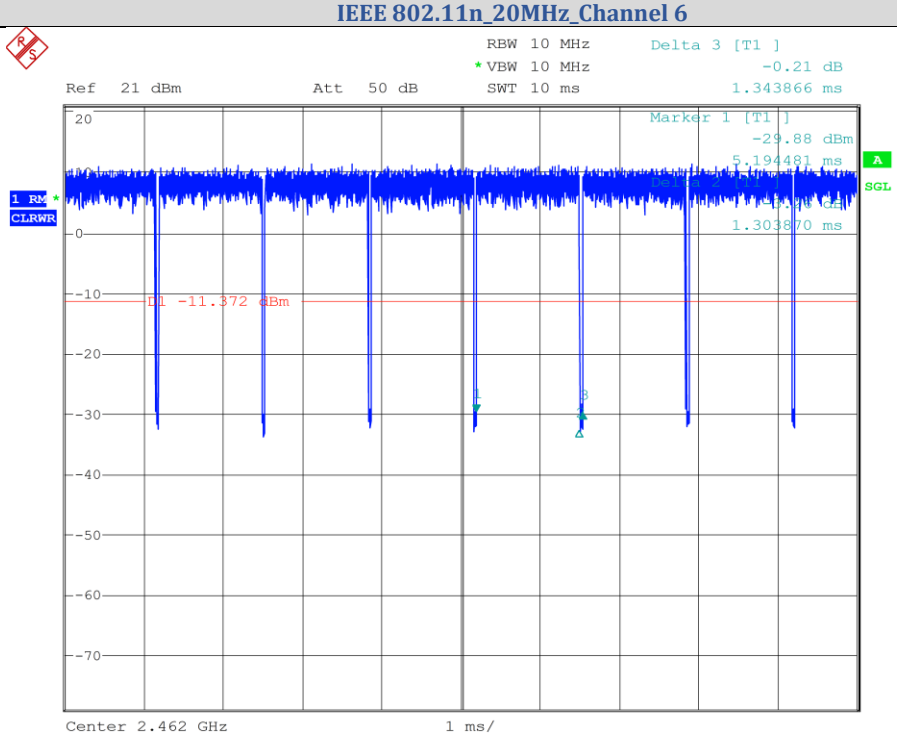
IEEE 802.11g_20MHz_Channel 11



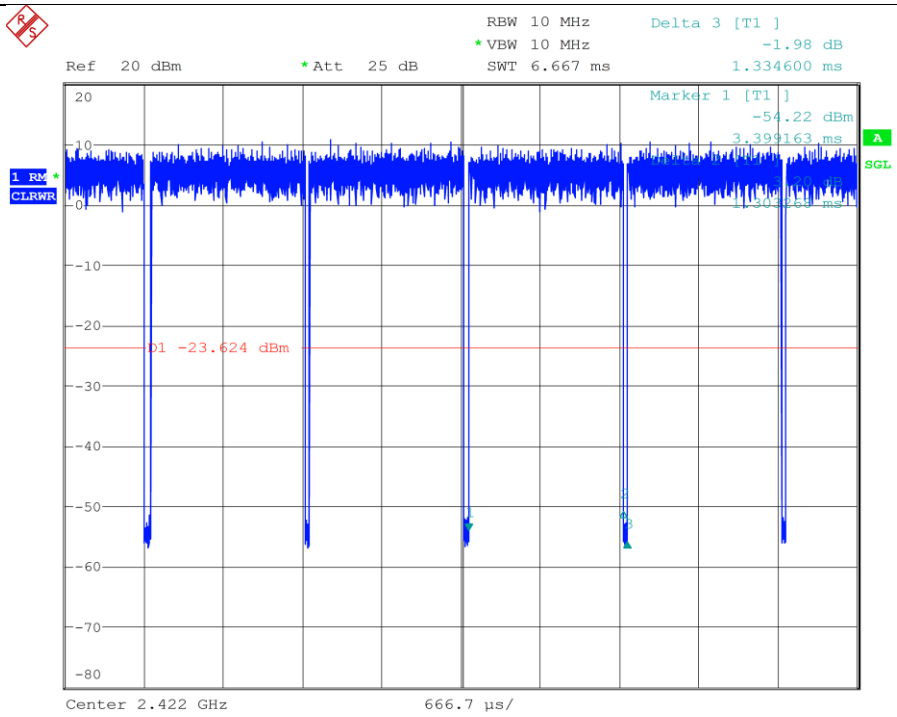
IEEE 802.11n_20MHz_Channel 1



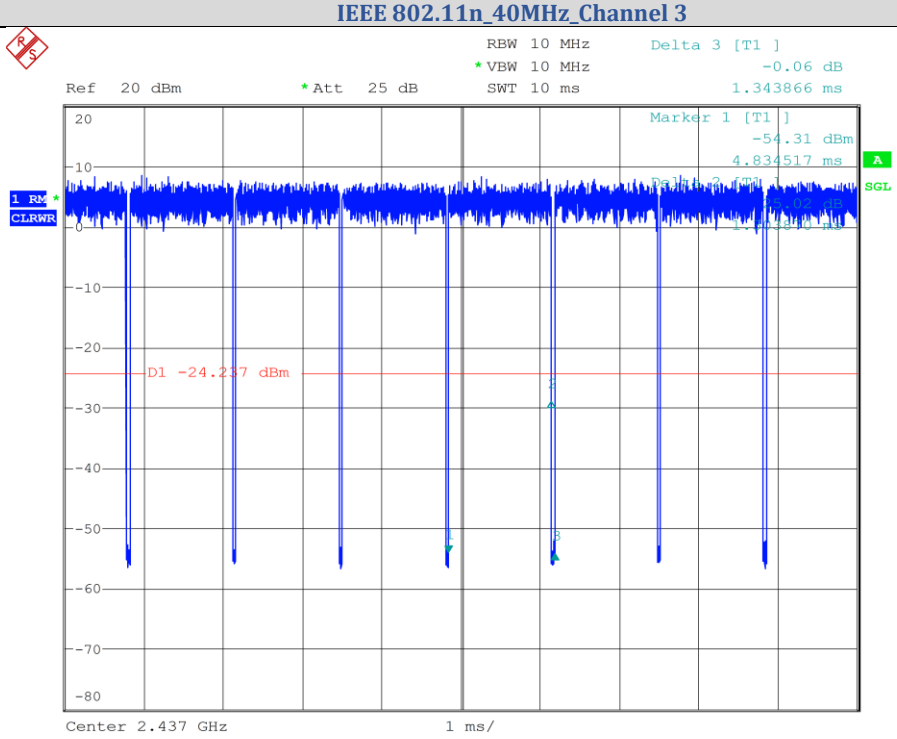
IEEE 802.11n_20MHz_Channel 6



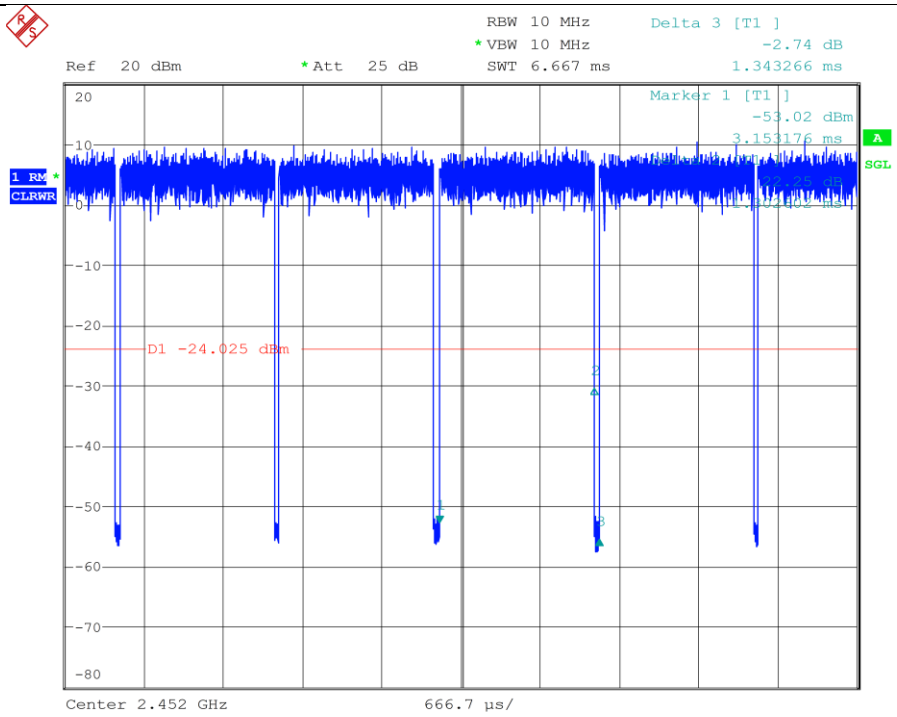
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



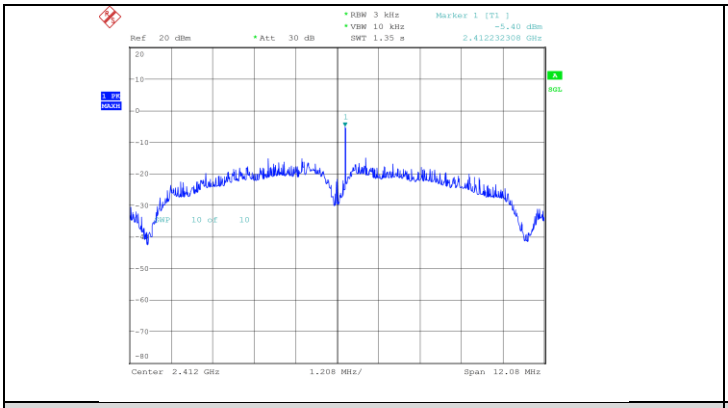
IEEE 802.11n_40MHz_Channel 9

Power Spectral Density

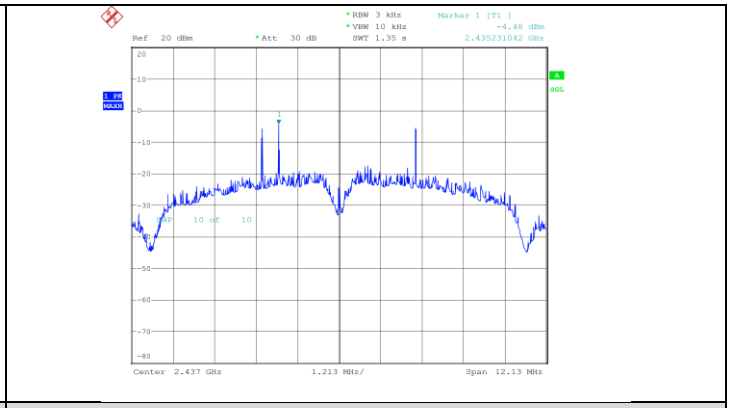
Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-5.401	≤8	PASS
	6	-4.476		PASS
	11	-0.305		PASS
IEEE 802.11g	1	-16.827		PASS
	6	-18.945		PASS
	11	-16.221		PASS
IEEE 802.11n_20	1	-16.882		PASS
	6	-18.034		PASS
	11	-15.241		PASS
IEEE 802.11n_40	3	-17.292		PASS
	6	-18.904		PASS
	9	-17.503		PASS

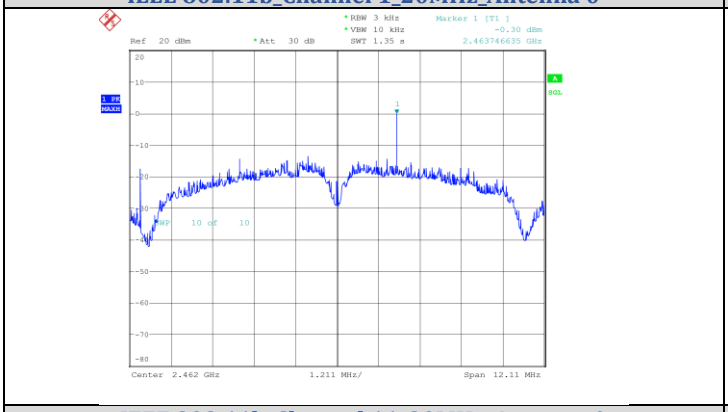
Test Graphs



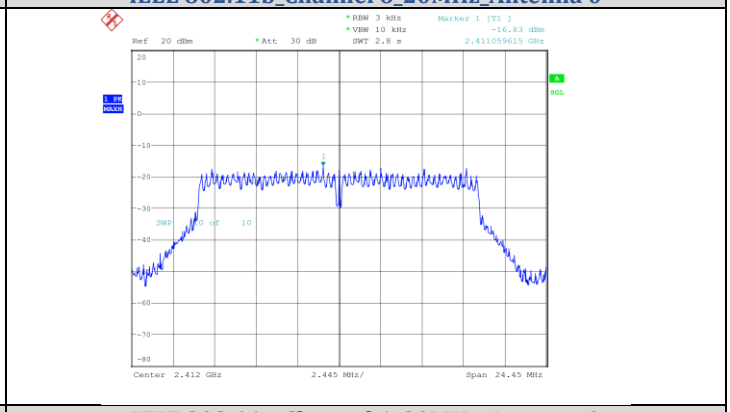
IEEE 802.11b_Channel 1_20MHz_Antenna 0



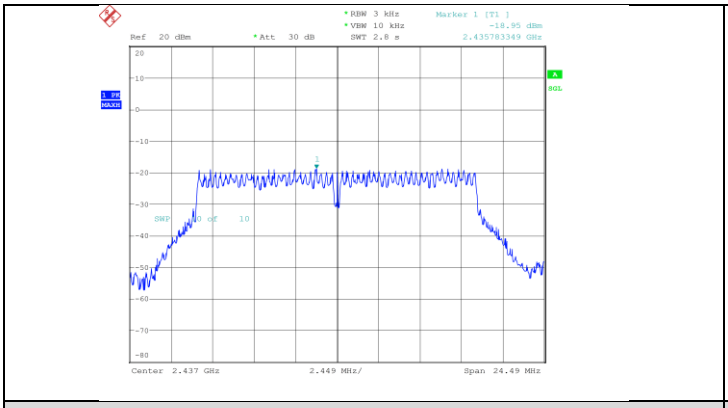
IEEE 802.11b_Channel 6_20MHz_Antenna 0



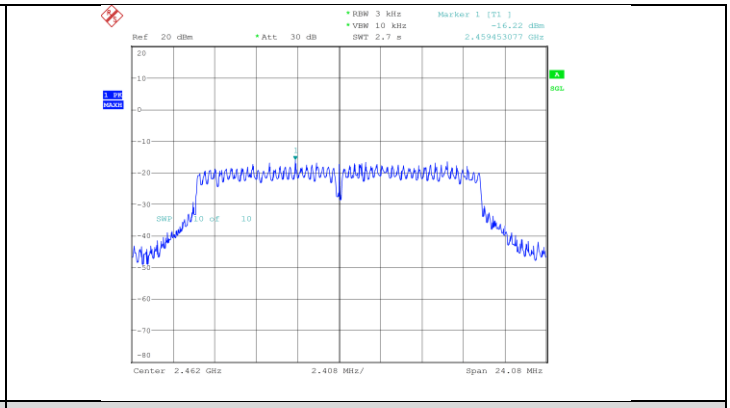
IEEE 802.11b_Channel 11_20MHz_Antenna 0



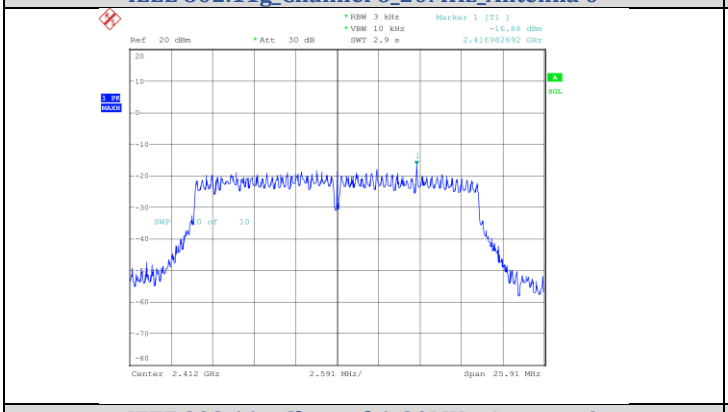
IEEE 802.11g_Channel 1_20MHz_Antenna 0



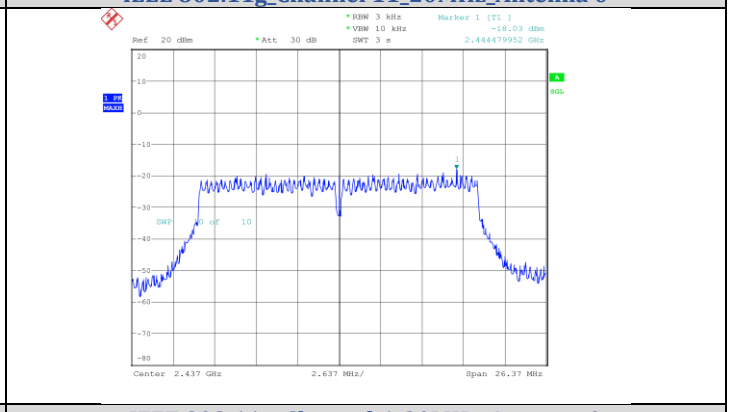
IEEE 802.11g_Channel 6_20MHz_Antenna 0



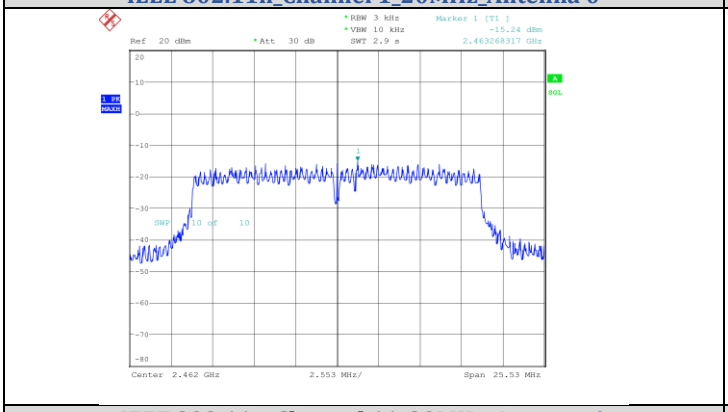
IEEE 802.11g_Channel 11_20MHz_Antenna 0



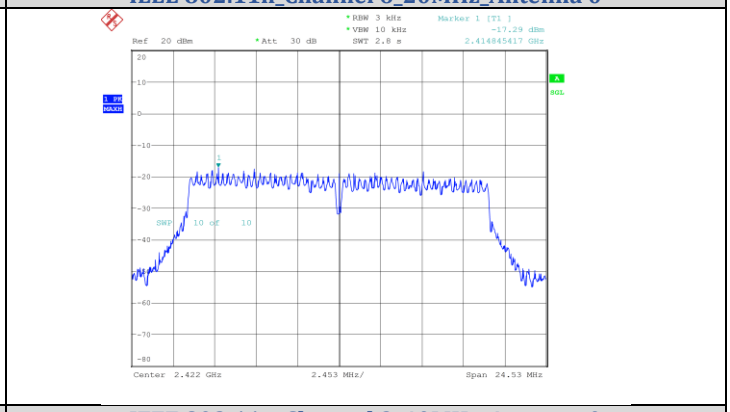
IEEE 802.11n_Channel 1_20MHz_Antenna 0



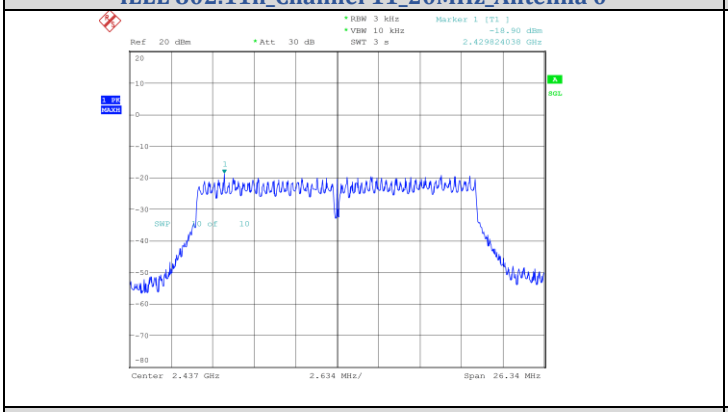
IEEE 802.11n_Channel 6_20MHz_Antenna 0



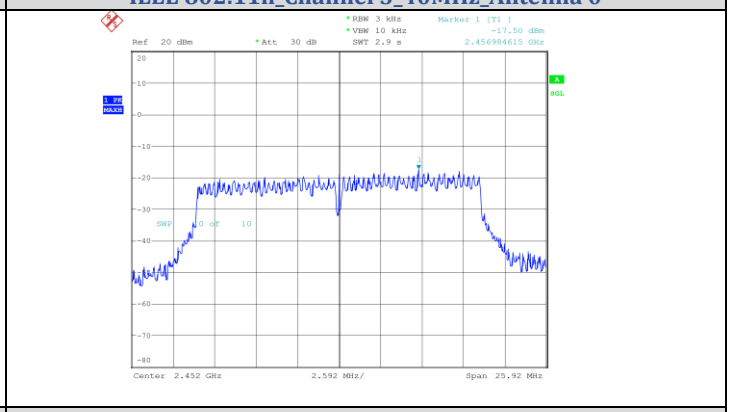
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0