

Conducted Output Power

Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	5.13	N/A	≤30	PASS
	6	8.74	N/A	≤30	PASS
	11	7.53	N/A	≤30	PASS
IEEE 802.11g	1	10.51	N/A	≤30	PASS
	6	14.61	N/A	≤30	PASS
	11	14.60	N/A	≤30	PASS
IEEE 802.11n_20	1	10.87	N/A	≤30	PASS
	6	14.80	N/A	≤30	PASS
	11	14.87	N/A	≤30	PASS
IEEE 802.11n_40	3	12.81	N/A	≤30	PASS
	6	14.55	N/A	≤30	PASS
	9	11.78	N/A	≤30	PASS

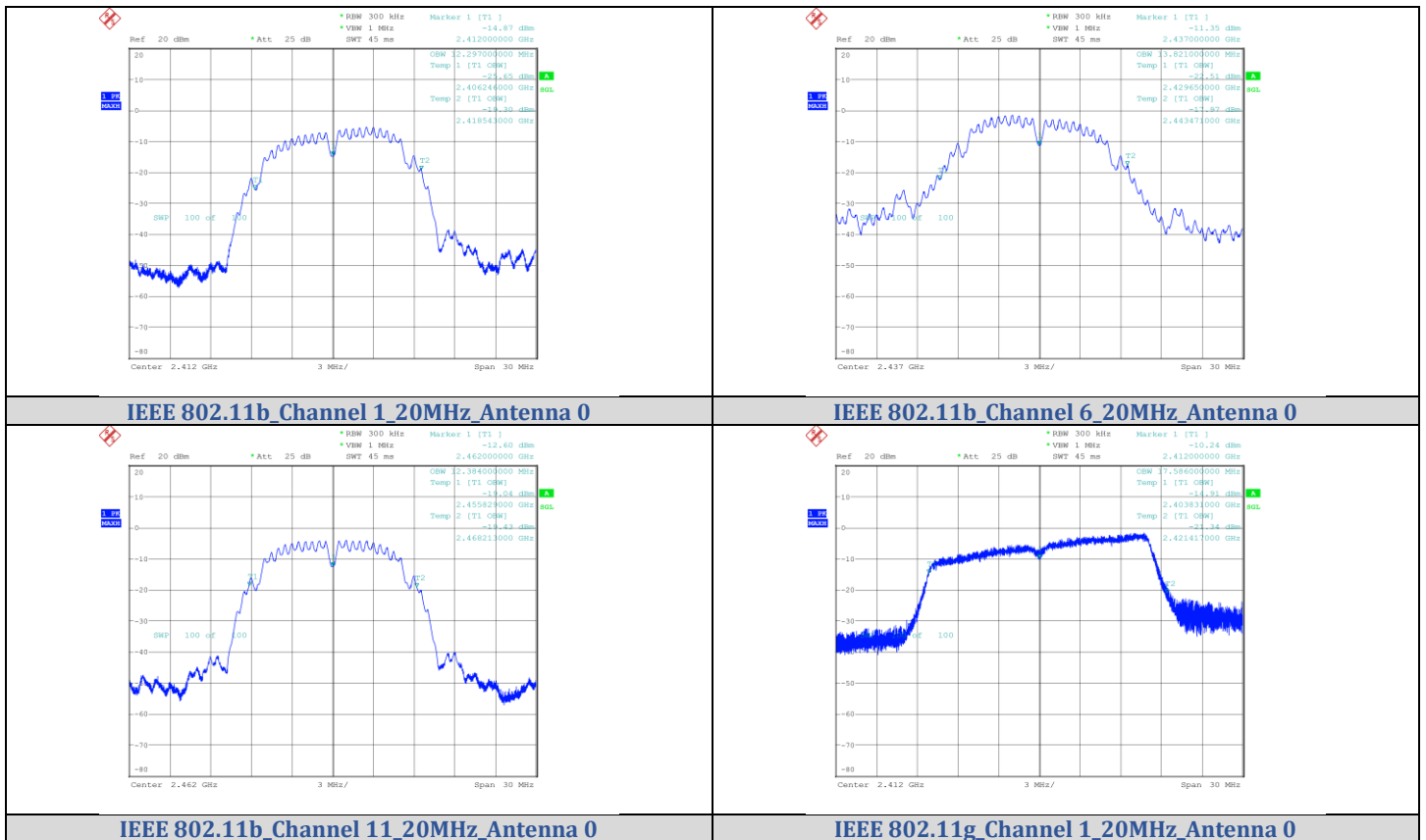


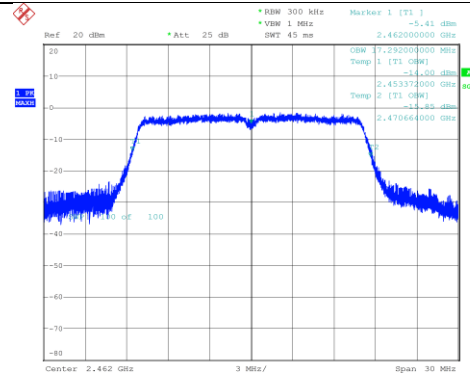
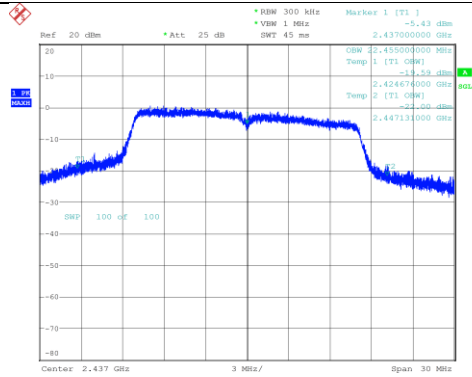
99% Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.300
	6		2437	13.820
	11		2462	12.380
IEEE 802.11g	1		2412	17.590
	6		2437	22.450
	11		2462	17.290
IEEE 802.11n_20	1		2412	19.640
	6		2437	22.550
	11		2462	18.250
IEEE 802.11n_40	3		2422	36.830
	6		2437	37.160
	9		2452	37.870

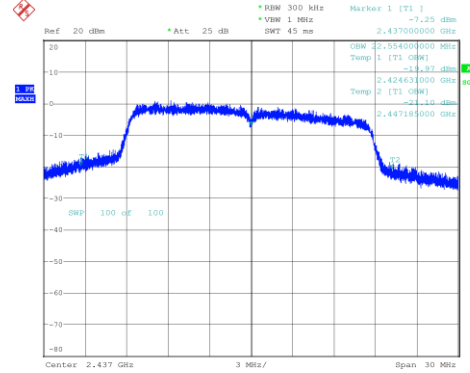
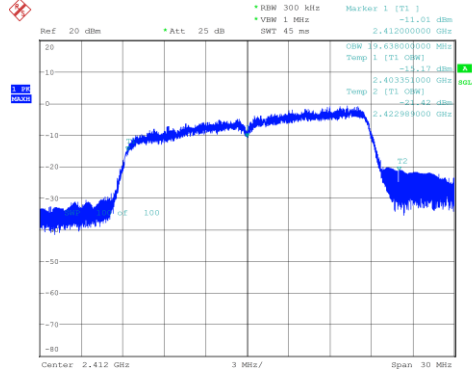
Test Graphs





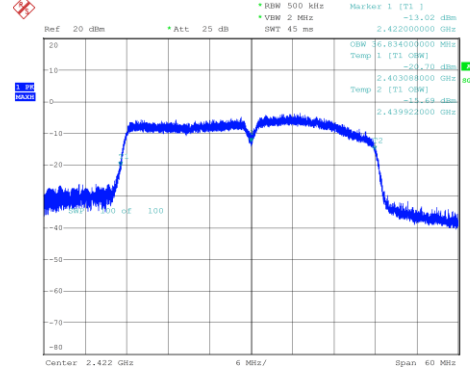
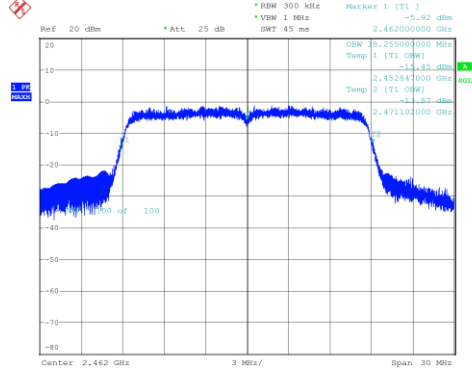
IEEE 802.11g Channel 6_20MHz_Antenna 0

IEEE 802.11g Channel 11_20MHz_Antenna 0



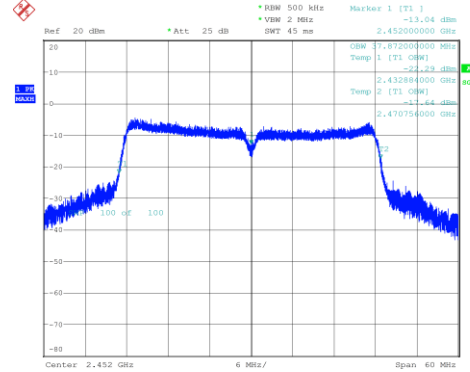
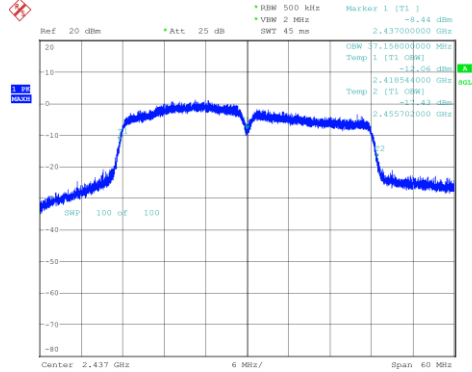
IEEE 802.11n Channel 1_20MHz_Antenna 0

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

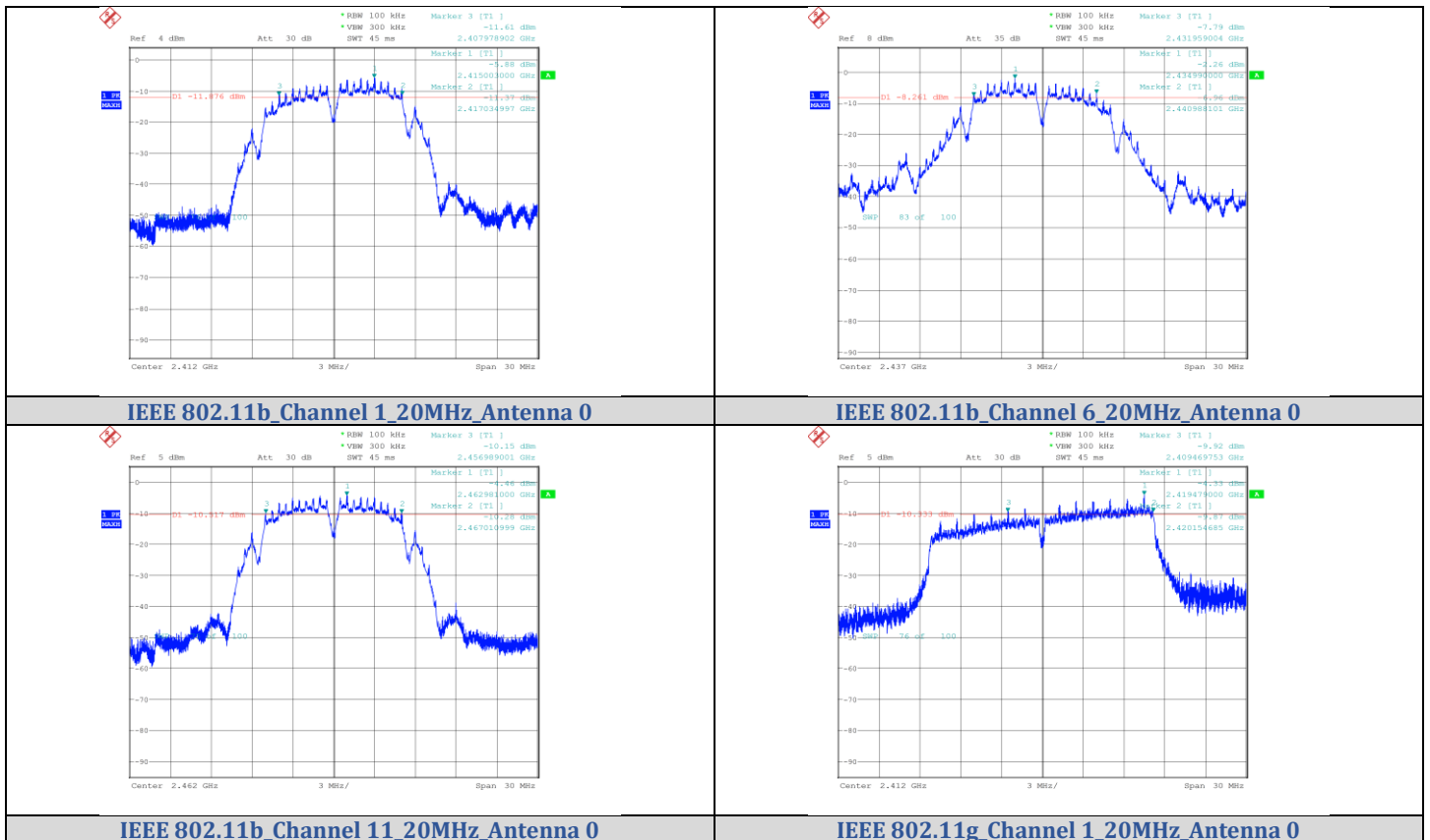
IEEE 802.11n Channel 9_40MHz_Antenna 0

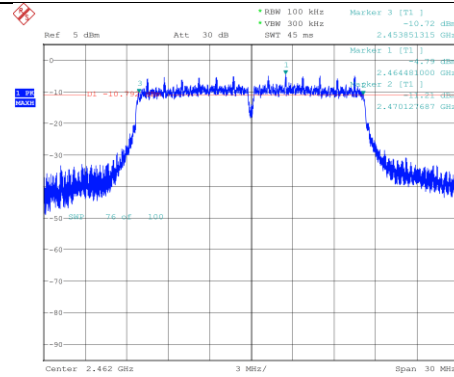
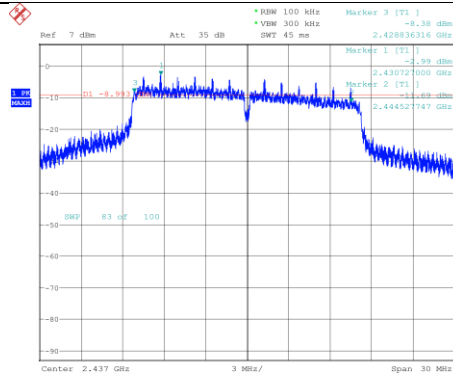
6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.050	≥0.5	PASS
	6		2437	9.030		PASS
	11		2462	10.02		PASS
IEEE 802.11g	1		2412	10.68		PASS
	6		2437	15.69		PASS
	11		2462	16.28		PASS
IEEE 802.11n_20	1		2412	11.28		PASS
	6		2437	16.11		PASS
	11		2462	16.96		PASS
IEEE 802.11n_40	3		2422	32.94		PASS
	6		2437	28.78		PASS
	9		2452	20.68		PASS

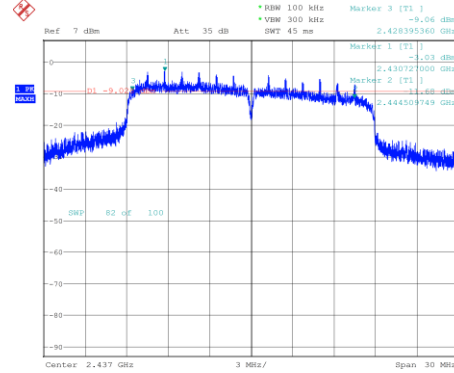
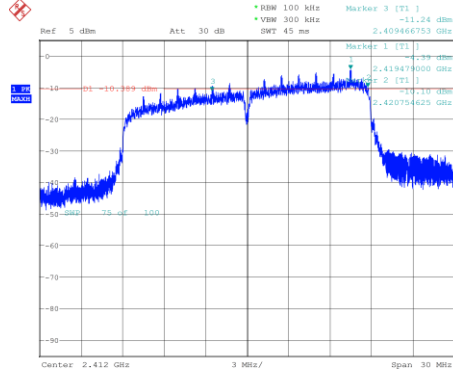
Test Graphs





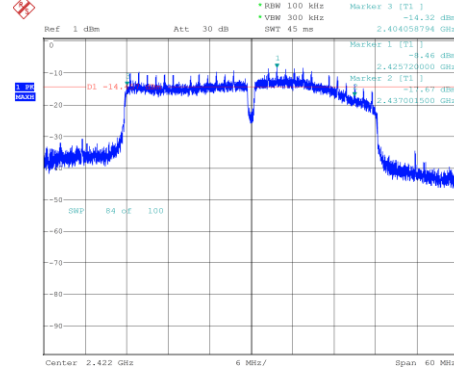
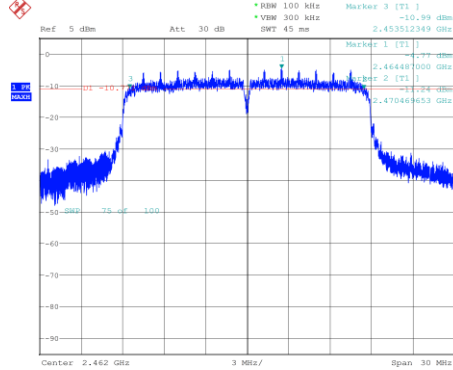
IEEE 802.11g Channel 6_20MHz_Antenna 0

IEEE 802.11g Channel 11_20MHz_Antenna 0



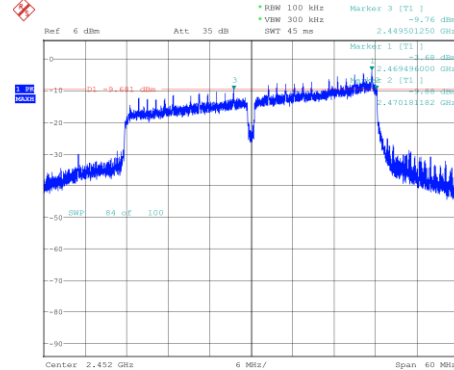
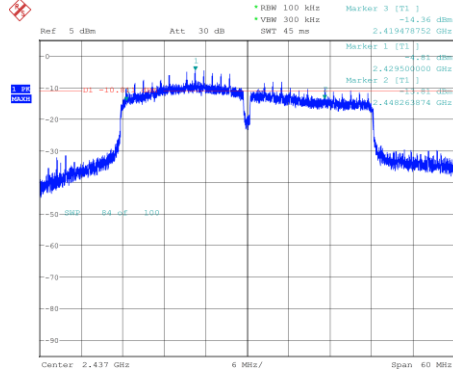
IEEE 802.11n Channel 1_20MHz_Antenna 0

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

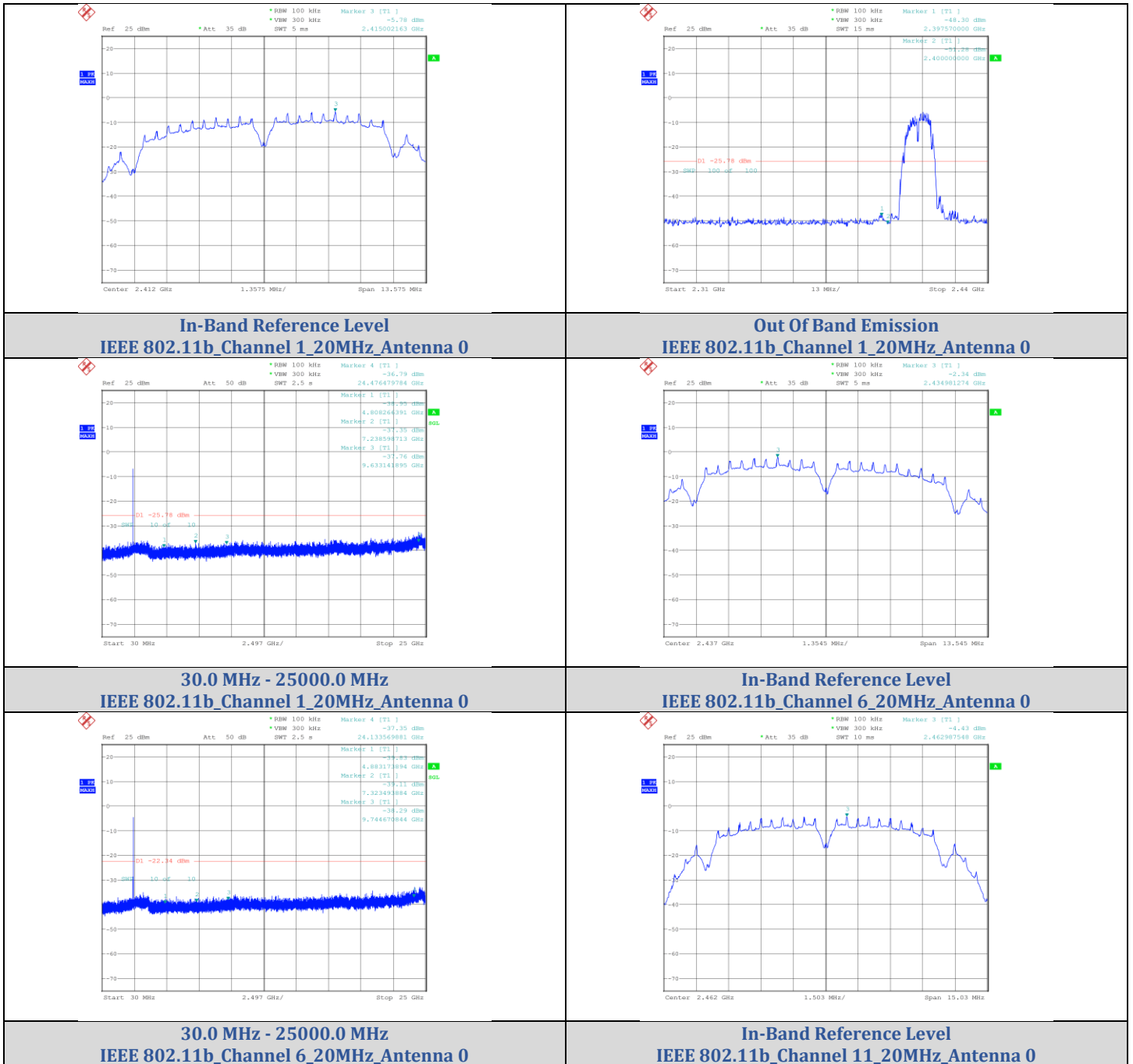
Conducted Out Of Band Emission

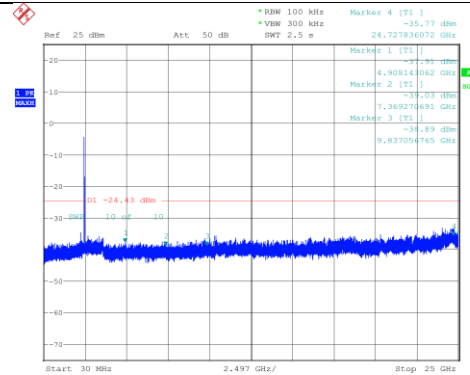
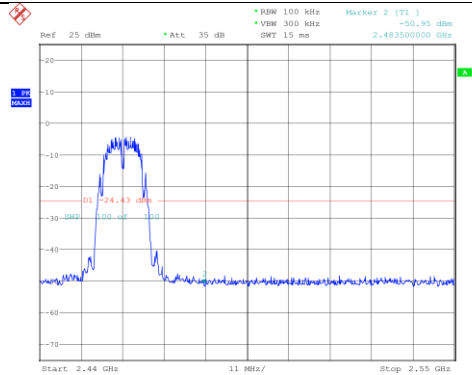
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2397.57	-47.328	-25.78	-21.548	PASS
			2400.00	-51.276	-25.78	-25.496	PASS
			4808.30	-38.952	-25.78	-13.172	PASS
			7238.60	-37.355	-25.78	-11.575	PASS
			9633.10	-37.760	-25.78	-11.980	PASS
	6		24476.5	-32.656	-25.78	-6.876	PASS
			4883.17	-39.829	-22.34	-17.489	PASS
			7323.49	-39.108	-22.34	-16.768	PASS
			9744.67	-38.293	-22.34	-15.953	PASS
			24133.6	-33.069	-22.34	-10.729	PASS
	11		2483.50	-50.946	-24.43	-26.516	PASS
			4908.14	-37.906	-24.43	-13.476	PASS
			7369.27	-39.034	-24.43	-14.604	PASS
			9837.06	-38.886	-24.43	-14.456	PASS
			24727.8	-33.239	-24.43	-8.809	PASS
IEEE 802.11g	1		2400.00	-39.932	-24.44	-15.492	PASS
			4816.59	-38.541	-24.44	-14.101	PASS
			7251.08	-38.242	-24.44	-13.802	PASS
			9630.64	-37.610	-24.44	-13.170	PASS
			24681.2	-33.148	-24.44	-8.708	PASS
	6		4893.16	-38.920	-23.0	-15.920	PASS
			7325.16	-38.415	-23.0	-15.415	PASS
			9748.00	-37.011	-23.0	-14.011	PASS
			24157.7	-33.409	-23.0	-10.409	PASS
			11	2483.50	-47.366	-24.91	-22.456
	4930.62			-39.421	-24.91	-14.511	PASS
	7377.59			-39.945	-24.91	-15.035	PASS
	9865.36			-37.503	-24.91	-12.593	PASS
	24504.8			-32.885	-24.91	-7.975	PASS
	IEEE 802.11n_20		1	2392.58	-39.238	-24.26	-14.978
2400.00				-42.194	-24.26	-17.934	PASS
4834.10				-38.658	-24.26	-14.398	PASS
7226.90				-38.627	-24.26	-14.367	PASS
9648.10		-36.741		-24.26	-12.481	PASS	
24665.4		-30.985		-24.26	-6.725	PASS	
6		4859.04	-38.944	-23.02	-15.924	PASS	
		7321.00	-39.227	-23.02	-16.207	PASS	
		9738.84	-37.926	-23.02	-14.906	PASS	
		24657.9	-33.242	-23.02	-10.222	PASS	
		11	2483.50	-45.788	-25.13	-20.658	PASS
4906.48			-37.883	-25.13	-12.753	PASS	
7375.10			-39.212	-25.13	-14.082	PASS	
9857.03			-37.675	-25.13	-12.545	PASS	
24683.7			-33.556	-25.13	-8.426	PASS	
IEEE 802.11n_40	3	2397.57	-30.456	-28.18	-2.276	PASS	
		2400.00	-35.824	-28.18	-7.644	PASS	
		4820.80	-38.017	-28.18	-9.837	PASS	
		7241.90	-38.851	-28.18	-10.671	PASS	
		9726.40	-36.717	-28.18	-8.537	PASS	
	6	24608.0	-33.003	-28.18	-4.823	PASS	
		4847.38	-37.786	-24.78	-13.006	PASS	
		7304.35	-37.432	-24.78	-12.652	PASS	
		9758.82	-37.194	-24.78	-12.414	PASS	

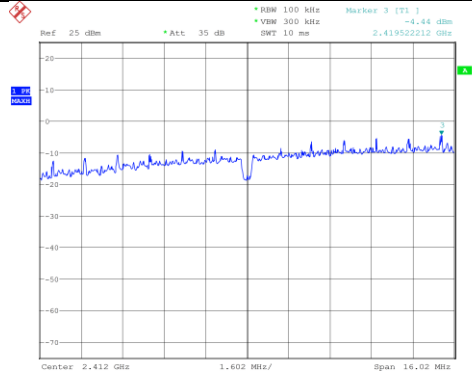
	9		24613.0	-33.272	-24.78	-8.492	PASS
			2483.50	-36.874	-25.33	-11.544	PASS
			4914.80	-37.919	-25.33	-12.589	PASS
			7351.79	-38.941	-25.33	-13.611	PASS
			9832.90	-37.963	-25.33	-12.633	PASS
			24669.6	-32.955	-25.33	-7.625	PASS

Test Graphs

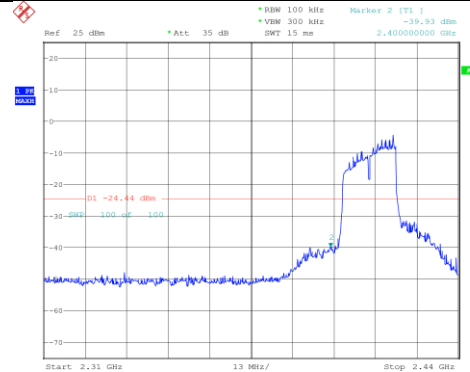




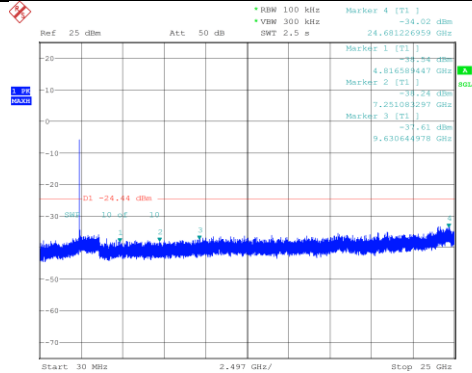
Out Of Band Emission IEEE 802.11b_Channel 11_20MHz_Antenna 0



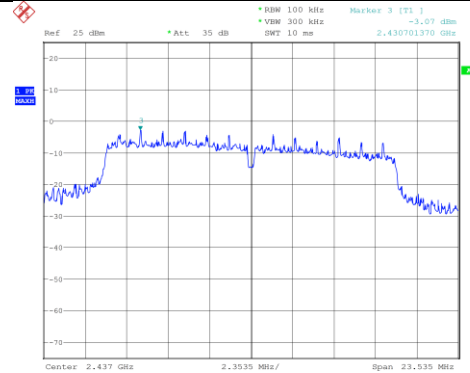
30.0 MHz - 25000.0 MHz IEEE 802.11b_Channel 11_20MHz_Antenna 0



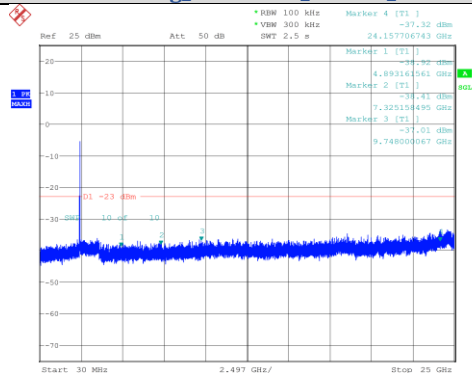
In-Band Reference Level IEEE 802.11g_Channel 1_20MHz_Antenna 0



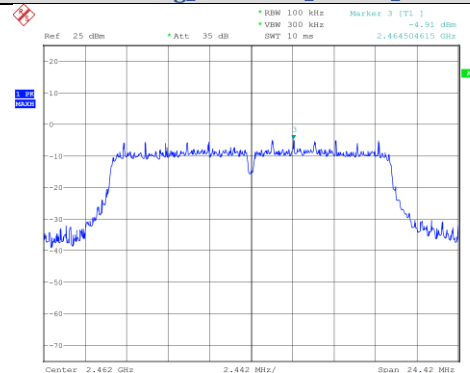
Out Of Band Emission IEEE 802.11g_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 1_20MHz_Antenna 0

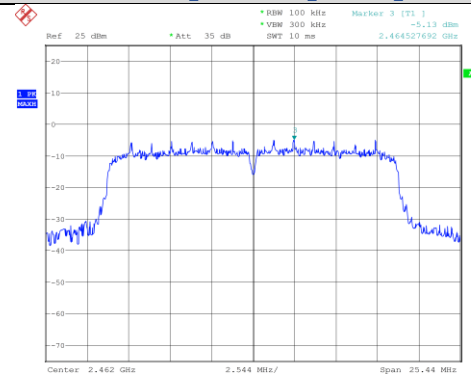


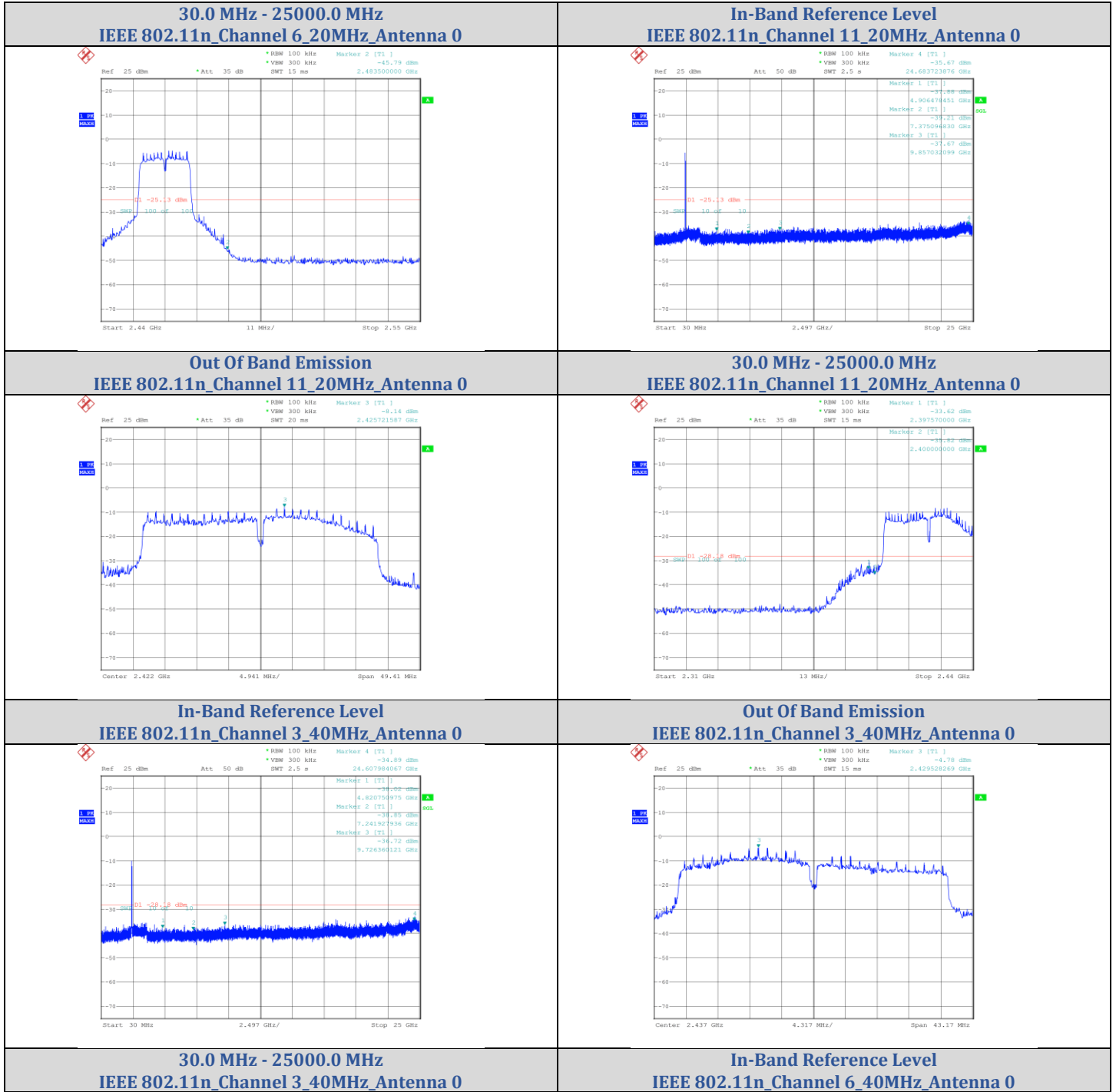
In-Band Reference Level IEEE 802.11g_Channel 6_20MHz_Antenna 0

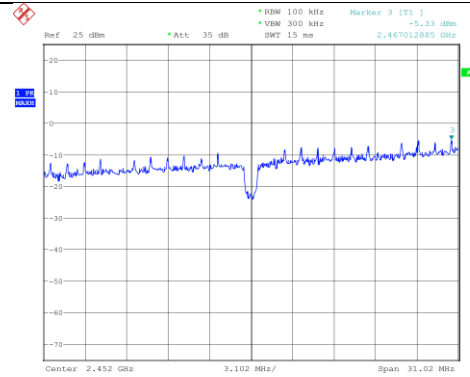
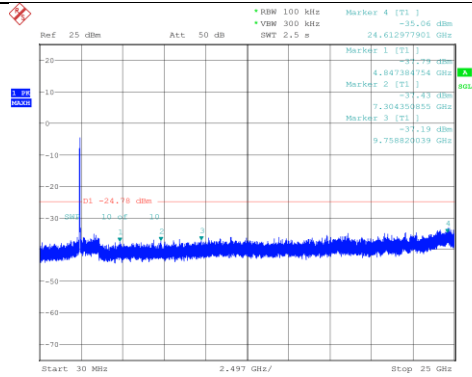


30.0 MHz - 25000.0 MHz

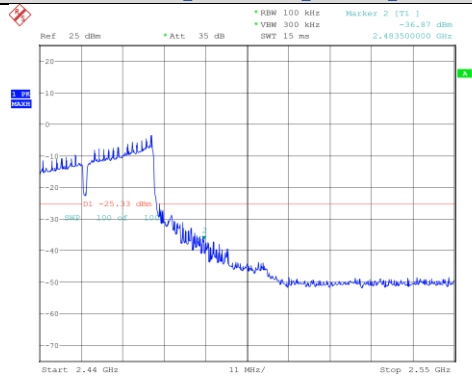
In-Band Reference Level



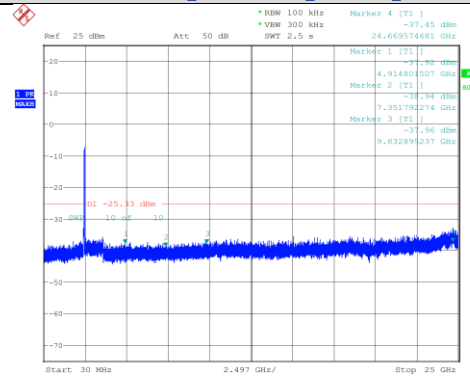




30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission IEEE 802.11n_Channel 9_40MHz_Antenna 0

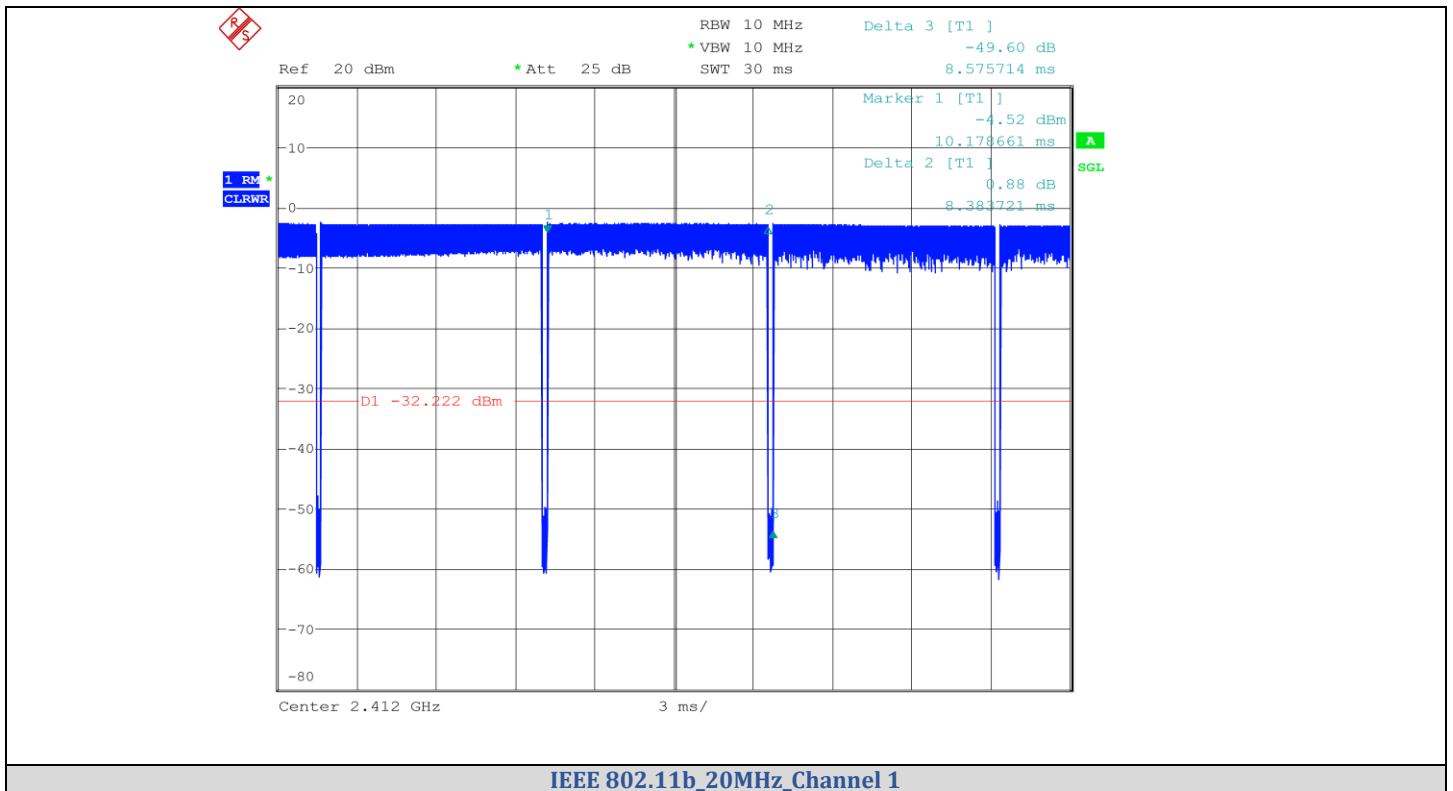
30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 9_40MHz_Antenna 0

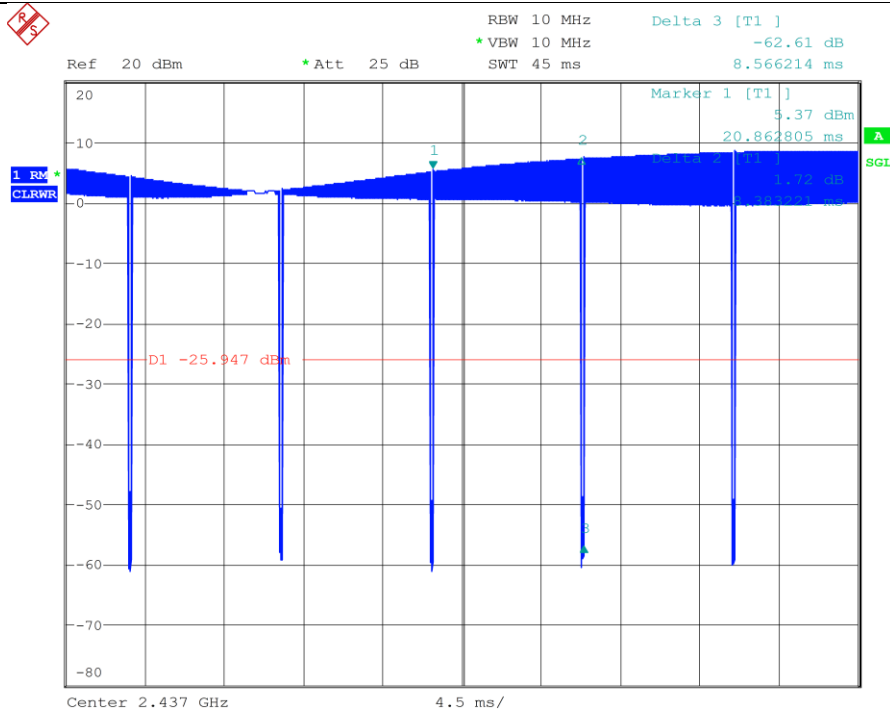
Duty Cycle

Test Result

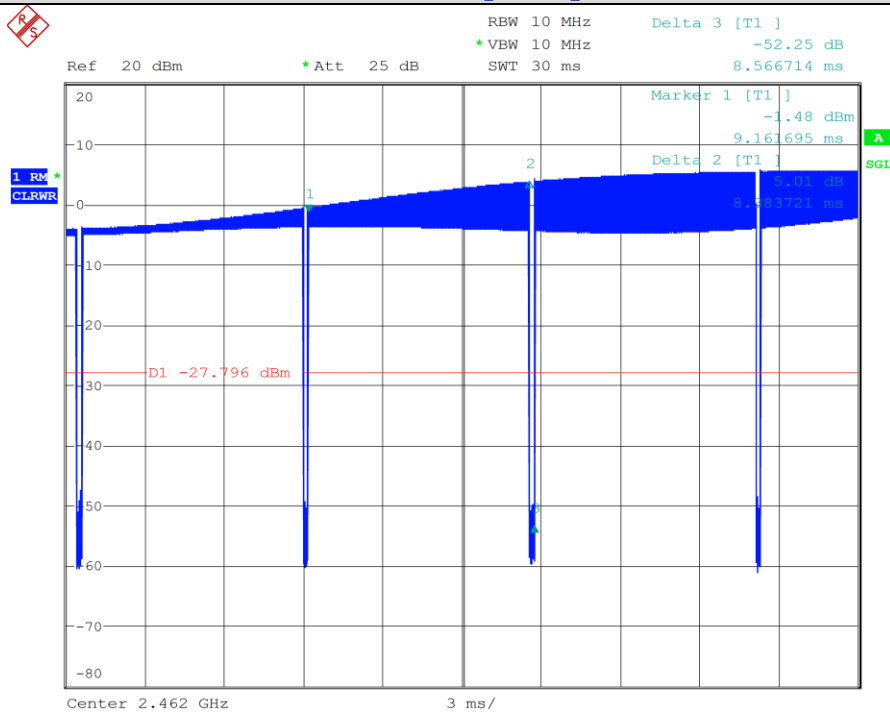
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	1	1	1	8.384	8.576	97.76	0.9776	0.0984
		6		8.383	8.566	97.86	0.9786	0.0939
		11		8.384	8.567	97.86	0.9786	0.0939
IEEE 802.11g		1		1.396	1.564	89.26	0.8926	0.4934
		6		1.396	1.582	88.24	0.8824	0.5433
		11		1.396	1.564	89.26	0.8926	0.4934
IEEE 802.11n_20	MCS 0	1		1.177	1.346	87.42	0.8742	0.5839
		6		1.176	1.355	86.81	0.8681	0.6143
		11		1.177	1.346	87.44	0.8744	0.5829
IEEE 802.11n_40		3		0.588	0.757	77.70	0.7770	1.0958
		6		0.589	0.784	75.11	0.7511	1.243
		9		0.588	0.775	75.92	0.7592	1.1964

Test Graphs

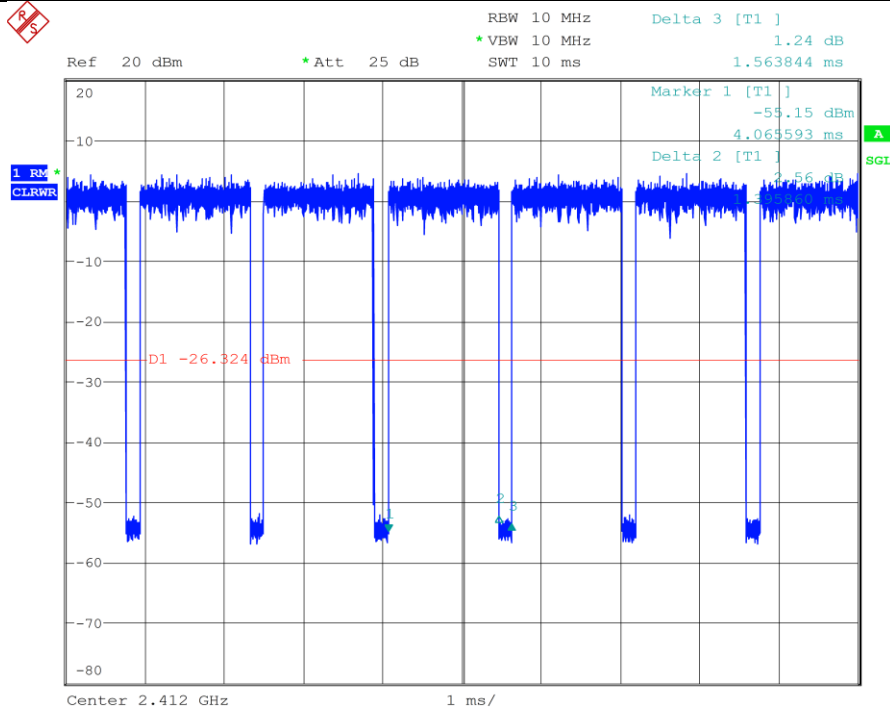




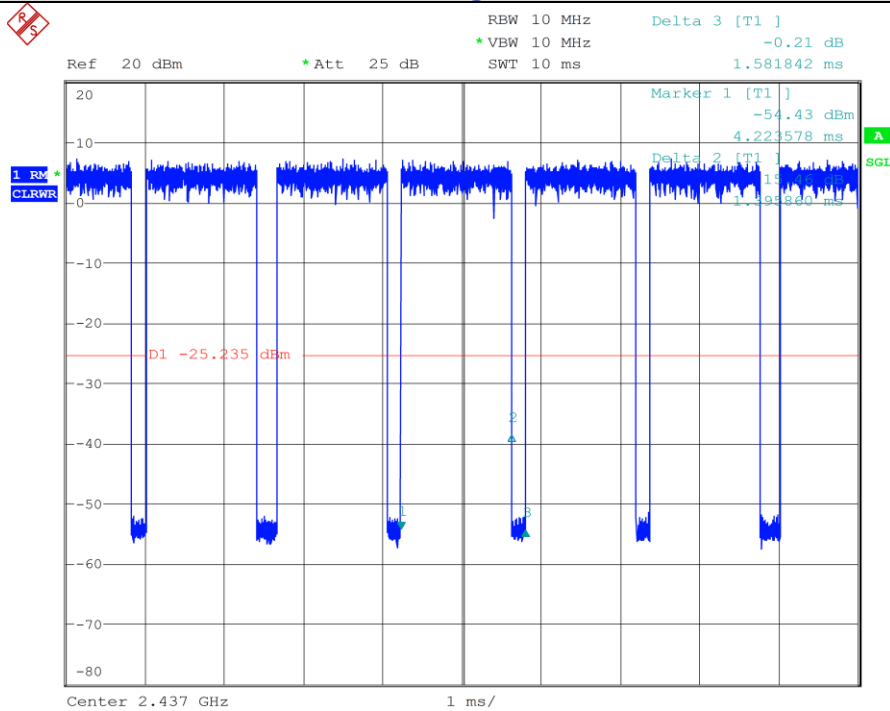
IEEE 802.11b_20MHz_Channel 6



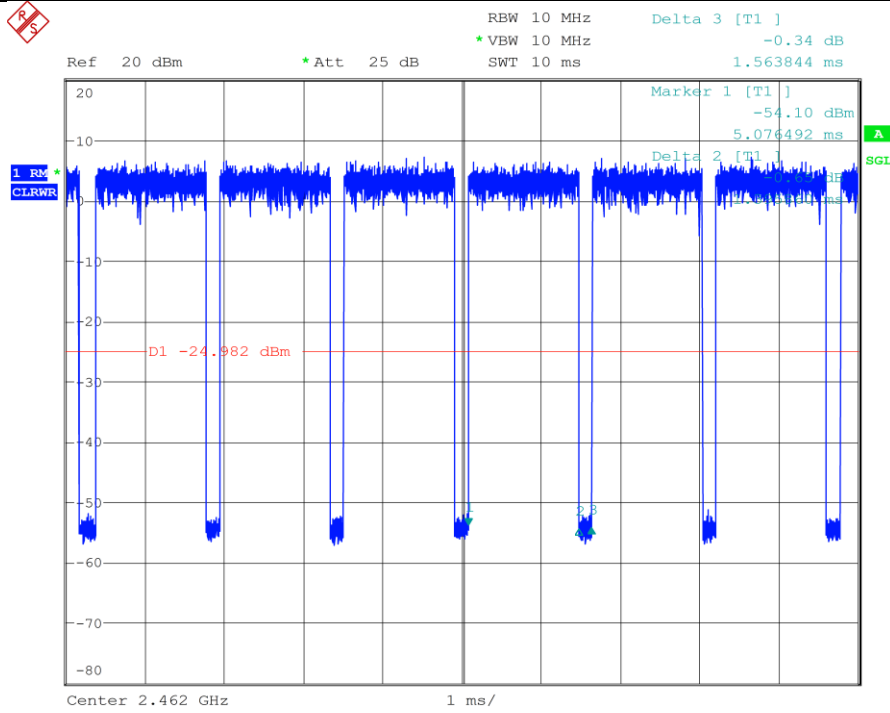
IEEE 802.11b_20MHz_Channel 11



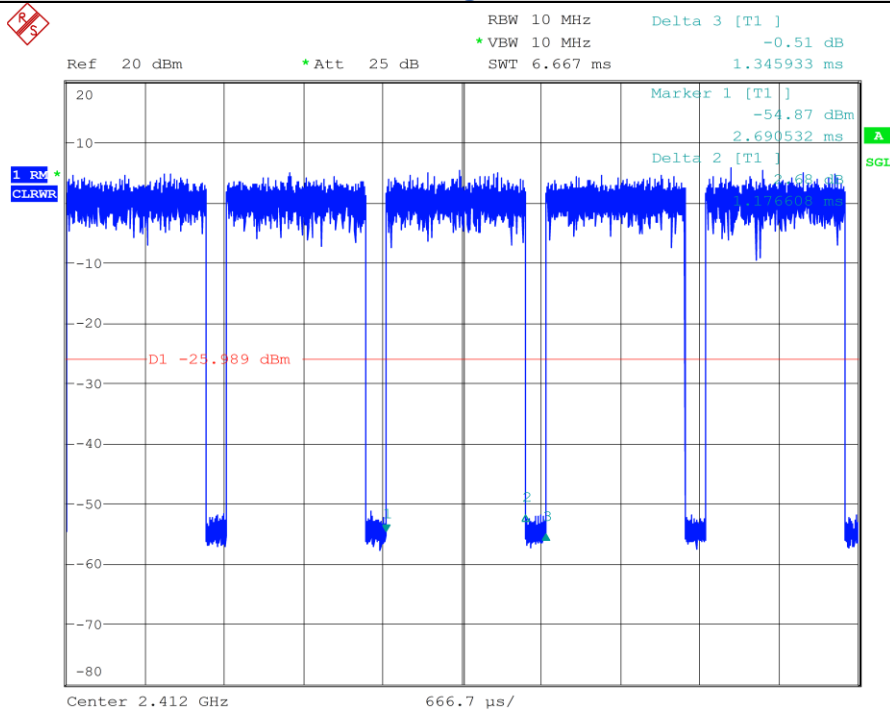
IEEE 802.11g_20MHz_Channel 1



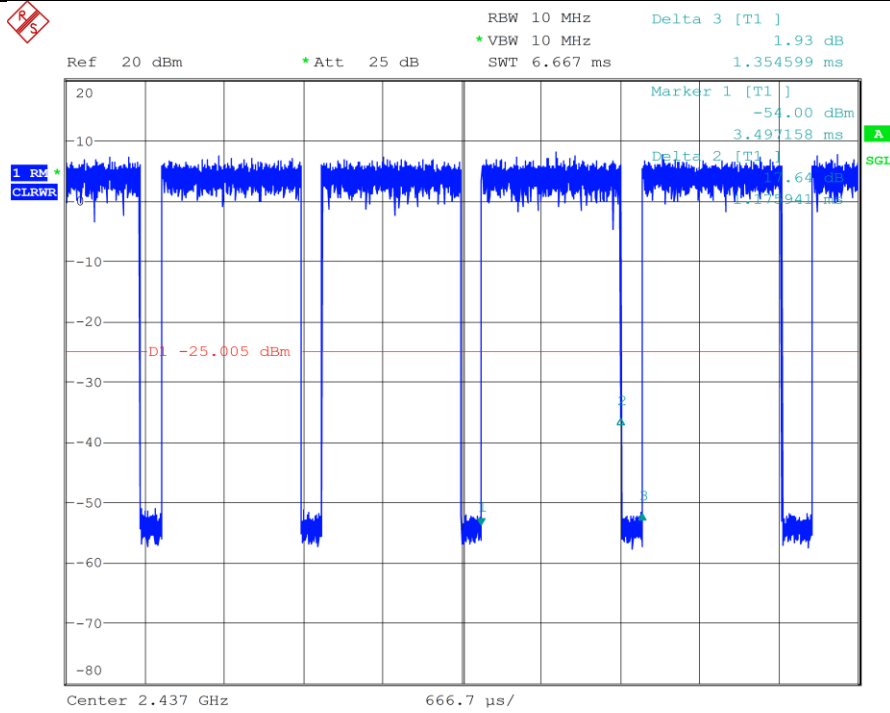
IEEE 802.11g_20MHz_Channel 6



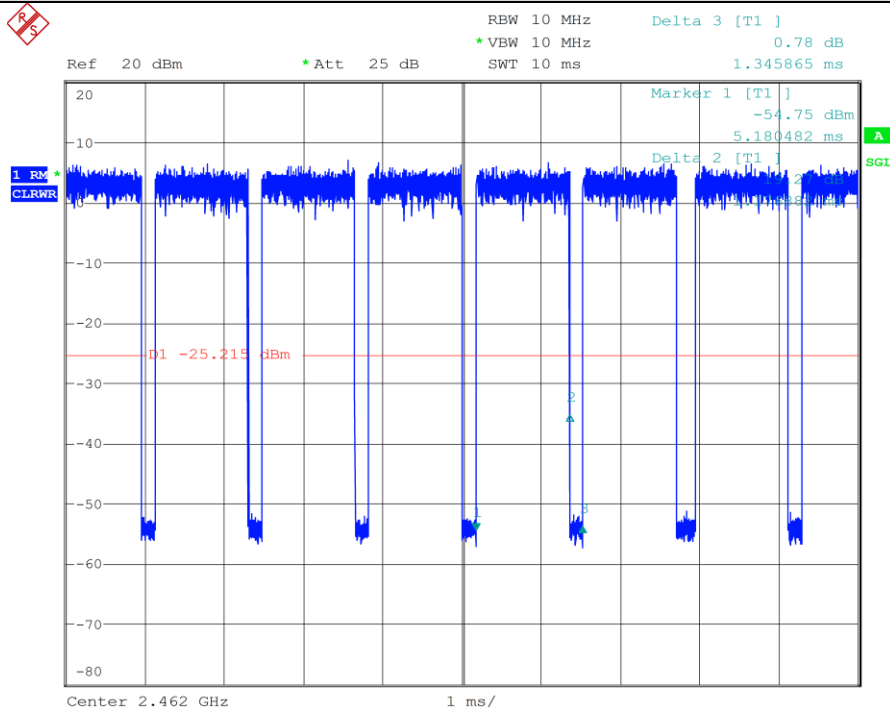
IEEE 802.11g_20MHz_Channel 11



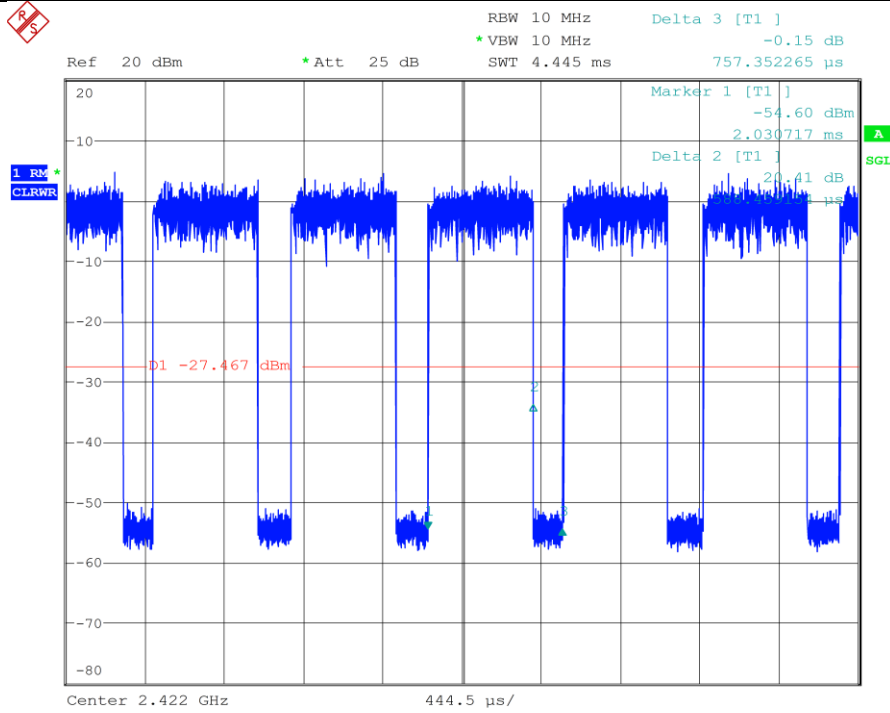
IEEE 802.11n_20MHz_Channel 1



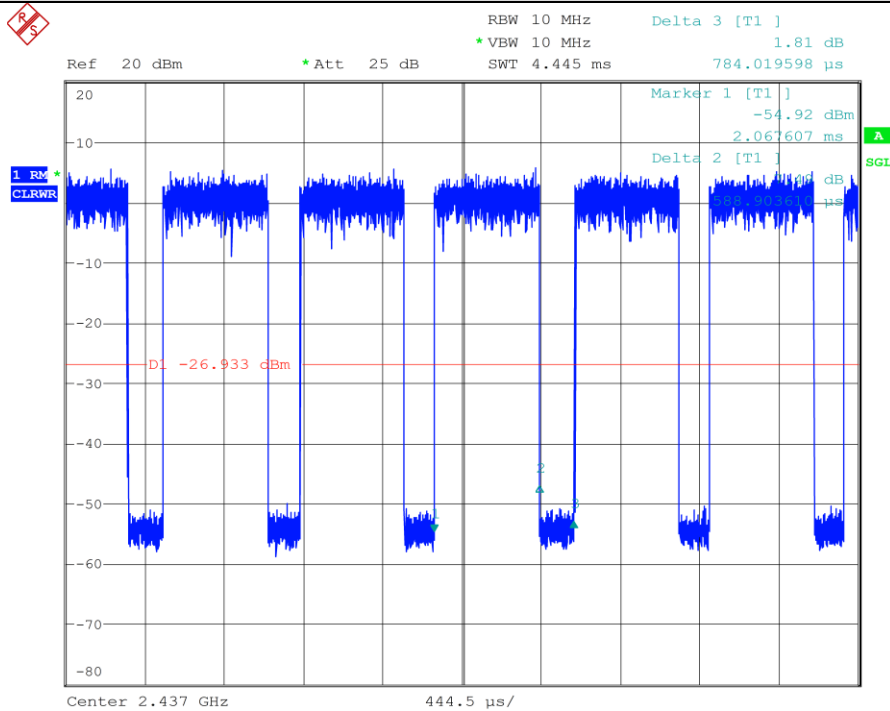
IEEE 802.11n_20MHz_Channel 6



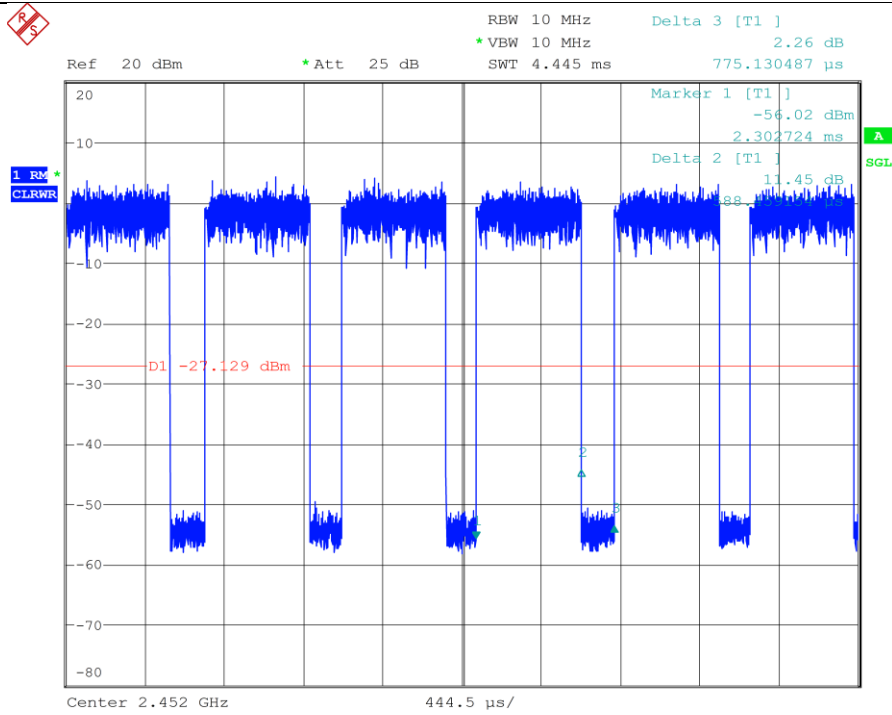
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6

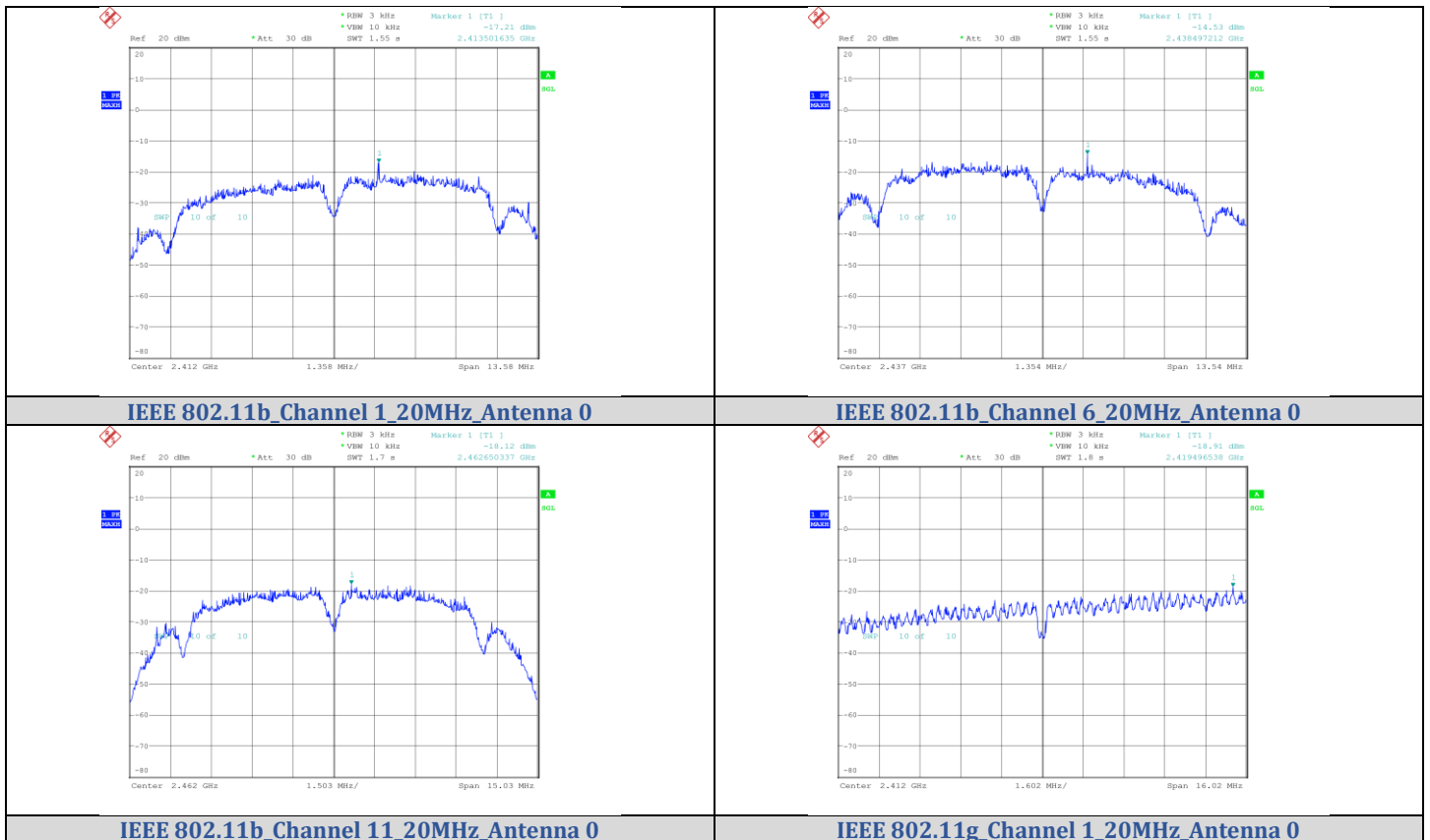


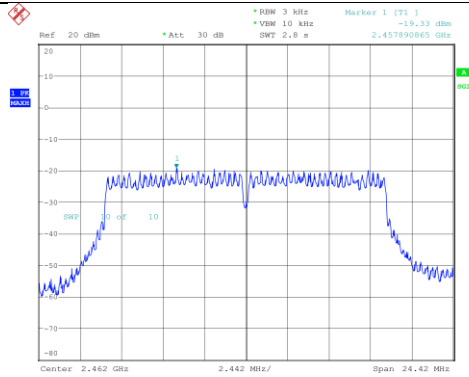
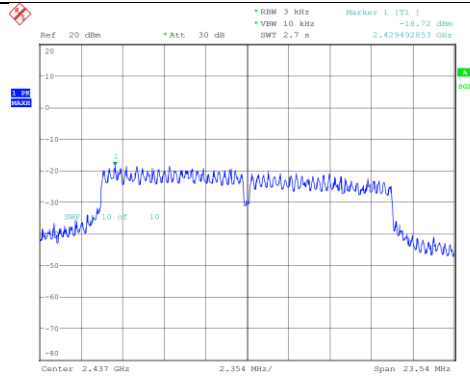
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-17.213	≤8	PASS
	6	-14.531		PASS
	11	-18.116		PASS
IEEE 802.11g	1	-18.909		PASS
	6	-18.721		PASS
	11	-19.328		PASS
IEEE 802.11n_20	1	-19.738		PASS
	6	-17.216		PASS
	11	-18.925		PASS
IEEE 802.11n_40	3	-23.466		PASS
	6	-20.734		PASS
	9	-20.497		PASS

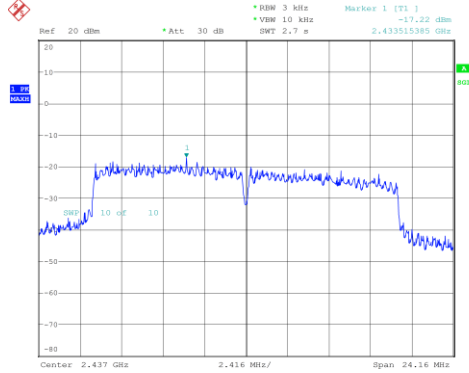
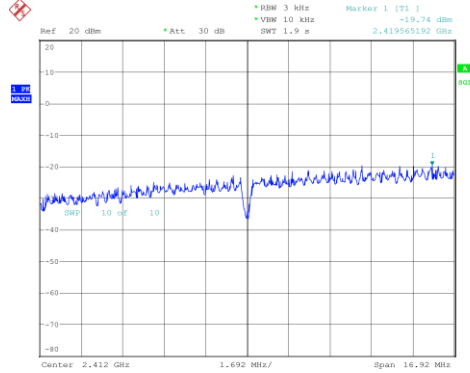
Test Graphs





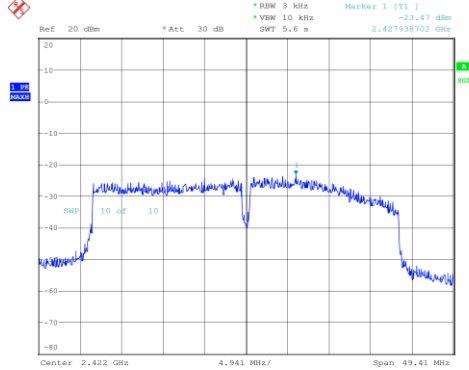
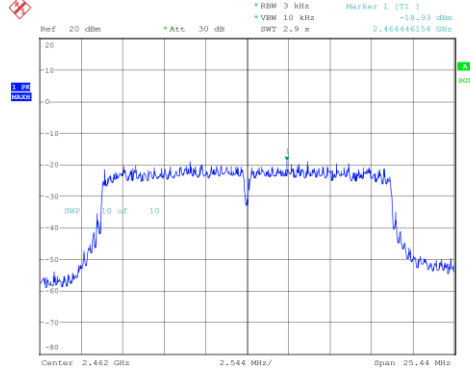
IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



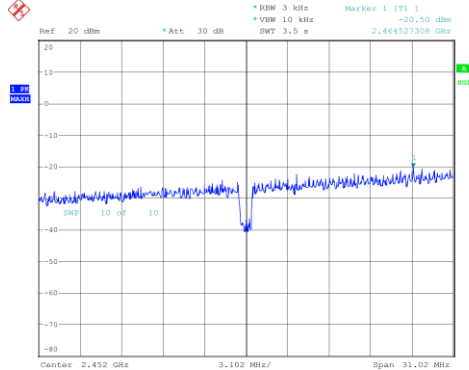
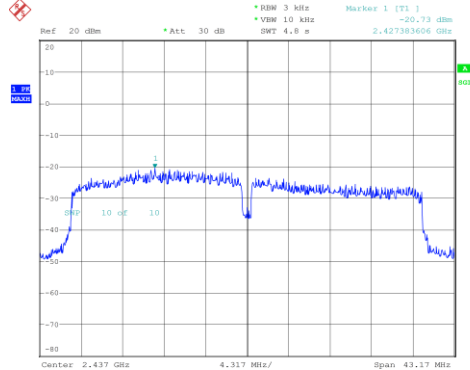
IEEE 802.11n_Channel 1_20MHz_Antenna 0

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