

Appendix A: Test Data

Duty cycle						
Mode	Frequency (MHz)	On time (ms)	On+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	2412	8.394	8.430	99.573	0.019	0.010
802.11g	2412	1.396	1.446	96.542	0.153	0.716
802.11n HT20	2412	1.303	1.353	96.305	0.164	0.767
802.11n HT40	2422	0.650	0.700	92.888	0.320	1.538
802.11n VHT20	2412	1.304	1.354	96.307	0.163	0.767
802.11n VHT40	2422	0.650	0.701	92.729	0.328	1.538

2.4 GHz Band					
Mode	Channel	Freq. (MHz)	RF power setting in Test SW		Test SW Version
			Ant-0	Ant-1	
802.11b	1	2412	11.00	11.00	Command
802.11b	6	2437	10.50	10.50	
802.11b	11	2462	10.50	10.50	
802.11b	12	2467	10.50	10.50	
802.11b	13	2472	10.50	10.50	
802.11g	1	2412	12.00	12.00	
802.11g	6	2437	12.00	12.00	
802.11g	11	2462	11.50	11.50	
802.11g	12	2467	11.50	11.50	
802.11g	13	2472	7.00	7.00	
802.11n HT20	1	2412	12.50	12.50	
802.11n HT20	6	2437	12.50	12.50	
802.11n HT20	11	2462	12.50	12.50	
802.11n HT20	12	2467	12.50	12.50	
802.11n HT20	13	2472	5.00	5.00	
802.11n HT40	3	2422	13.00	13.00	
802.11n HT40	6	2437	13.00	13.00	
802.11n HT40	9	2452	13.00	13.00	
802.11n HT40	10	2457	12.50	12.50	
802.11n HT40	11	2462	6.00	6.00	
802.11n VHT20	1	2412	12.50	12.50	
802.11n VHT20	6	2437	12.50	12.50	
802.11n VHT20	11	2462	12.50	12.50	
802.11n VHT20	12	2467	12.50	12.50	
802.11n VHT20	13	2472	5.00	5.00	
802.11n VHT40	3	2422	13.00	13.00	
802.11n VHT40	6	2437	13.00	13.00	
802.11n VHT40	9	2452	13.00	13.00	
802.11n VHT40	10	2457	12.50	12.50	
802.11n VHT40	11	2462	6.00	6.00	

2.4 GHz Band Config			
Mode	Channel	Freq. (MHz)	Data Rate
802.11b	1	2412	1M
802.11b	6	2437	1M
802.11b	11	2462	1M
802.11b	12	2467	1M
802.11b	13	2472	1M
802.11g	1	2412	6M
802.11g	6	2437	6M
802.11g	11	2462	6M
802.11g	12	2467	6M
802.11g	13	2472	6M
802.11n HT20	1	2412	13M
802.11n HT20	6	2437	13M
802.11n HT20	11	2462	13M
802.11n HT20	12	2467	13M
802.11n HT20	13	2472	13M
802.11n HT40	3	2422	27M
802.11n HT40	6	2437	27M
802.11n HT40	9	2452	27M
802.11n HT40	10	2457	27M
802.11n HT40	11	2462	27M
802.11n VHT20	1	2412	MCS0
802.11n VHT20	6	2437	MCS0
802.11n VHT20	11	2462	MCS0
802.11n VHT20	12	2467	MCS0
802.11n VHT20	13	2472	MCS0
802.11n VHT40	3	2422	MCS0
802.11n VHT40	6	2437	MCS0
802.11n VHT40	9	2452	MCS0
802.11n VHT40	10	2457	MCS0
802.11n VHT40	11	2462	MCS0

2.4 GHz Band																		
Mode	CH	Freq. (MHz)	Data Rate	Avg Conducted Power (dBm)					Peak Conducted Power (dBm)					Conducted Power Limit (dBm)				
				Ant-0	Ant-1	Ant-2	Ant-3	SUM	Ant-0	Ant-1	Ant-2	Ant-3	SUM	Ant-0	Ant-1	Ant-2	Ant-3	SUM
802.11b	1	2412	1M	13.87	13.80	-	-	16.84	16.28	16.16	-	-	19.23	30.00	30.00	-	-	30.00
802.11b	6	2437	1M	13.66	13.67	-	-	16.67	16.07	16.10	-	-	19.10	30.00	30.00	-	-	30.00
802.11b	11	2462	1M	13.55	13.52	-	-	16.54	15.96	15.90	-	-	18.94	30.00	30.00	-	-	30.00
802.11b	12	2467	1M	13.62	13.41	-	-	16.53	15.92	15.75	-	-	18.85	30.00	30.00	-	-	30.00
802.11b	13	2472	1M	13.58	13.43	-	-	16.51	15.86	15.80	-	-	18.84	30.00	30.00	-	-	30.00
802.11g	1	2412	6M	13.87	14.05	-	-	16.97	22.45	22.64	-	-	25.56	30.00	30.00	-	-	30.00
802.11g	6	2437	6M	13.87	14.03	-	-	16.96	23.65	22.38	-	-	26.07	30.00	30.00	-	-	30.00
802.11g	11	2462	6M	14.23	13.68	-	-	16.98	24.41	22.21	-	-	26.46	30.00	30.00	-	-	30.00
802.11g	12	2467	6M	13.53	13.68	-	-	16.62	24.43	22.03	-	-	26.40	30.00	30.00	-	-	30.00
802.11g	13	2472	6M	9.19	9.29	-	-	12.25	20.29	20.54	-	-	23.43	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	13M	13.35	13.76	-	-	16.57	22.15	22.42	-	-	25.30	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	13M	13.39	13.58	-	-	16.50	22.03	23.51	-	-	25.84	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	13M	13.97	13.76	-	-	16.88	24.77	22.42	-	-	26.76	30.00	30.00	-	-	30.00
802.11n HT20	12	2467	13M	13.25	13.79	-	-	16.54	22.02	23.69	-	-	25.95	30.00	30.00	-	-	30.00
802.11n HT20	13	2472	13M	5.78	6.21	-	-	9.01	18.55	18.86	-	-	21.72	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	27M	13.79	14.01	-	-	16.91	22.56	23.05	-	-	25.82	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	27M	13.82	13.73	-	-	16.79	22.56	23.71	-	-	26.18	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	27M	13.83	13.98	-	-	16.92	24.74	23.11	-	-	27.01	30.00	30.00	-	-	30.00
802.11n HT40	10	2457	27M	13.12	13.38	-	-	16.26	22.03	24.31	-	-	26.33	30.00	30.00	-	-	30.00
802.11n HT40	11	2462	27M	6.88	7.03	-	-	9.97	19.52	19.60	-	-	22.57	30.00	30.00	-	-	30.00
802.11n VHT20	1	2412	MCS0	13.37	13.80	-	-	16.60	22.20	22.50	-	-	25.36	30.00	30.00	-	-	30.00
802.11n VHT20	6	2437	MCS0	13.41	13.77	-	-	16.61	22.10	23.63	-	-	25.94	30.00	30.00	-	-	30.00
802.11n VHT20	11	2462	MCS0	14.03	13.84	-	-	16.95	24.82	22.51	-	-	26.83	30.00	30.00	-	-	30.00
802.11n VHT20	12	2467	MCS0	13.33	13.85	-	-	16.61	22.07	23.79	-	-	26.02	30.00	30.00	-	-	30.00
802.11n VHT20	13	2472	MCS0	5.87	6.27	-	-	9.09	18.64	18.97	-	-	21.82	30.00	30.00	-	-	30.00
802.11n VHT40	3	2422	MCS0	13.85	14.09	-	-	16.98	22.65	23.14	-	-	25.91	30.00	30.00	-	-	30.00
802.11n VHT40	6	2437	MCS0	13.88	13.86	-	-	16.88	22.62	23.82	-	-	26.27	30.00	30.00	-	-	30.00
802.11n VHT40	9	2452	MCS0	13.90	14.04	-	-	16.98	24.84	23.21	-	-	27.11	30.00	30.00	-	-	30.00
802.11n VHT40	10	2457	MCS0	13.24	13.46	-	-	16.36	22.14	24.41	-	-	26.43	30.00	30.00	-	-	30.00
802.11n VHT40	11	2462	MCS0	6.97	7.19	-	-	10.09	19.57	19.72	-	-	22.66	30.00	30.00	-	-	30.00

6 dB Bandwidth						
Mode	Freq. (MHz)	6 dB Bandwidth (kHz)				6 dB Bandwidth Min.Limit (kHz)
		Ant-0	Ant-1	Ant-2	Ant-3	
802.11b	2412	8118	9095	-	-	≥ 500
802.11b	2437	9091	8594	-	-	≥ 500
802.11b	2462	9089	8107	-	-	≥ 500
802.11b	2467	9089	8610	-	-	≥ 500
802.11b	2472	8066	9068	-	-	≥ 500
802.11g	2412	15150	15330	-	-	≥ 500
802.11g	2437	15160	15730	-	-	≥ 500
802.11g	2462	15720	15150	-	-	≥ 500
802.11g	2467	15160	15150	-	-	≥ 500
802.11g	2472	15460	15150	-	-	≥ 500
802.11n VHT20	2412	15150	15740	-	-	≥ 500
802.11n VHT20	2437	15960	15740	-	-	≥ 500
802.11n VHT20	2462	16090	15730	-	-	≥ 500
802.11n VHT20	2467	15160	15150	-	-	≥ 500
802.11n VHT20	2472	15170	15750	-	-	≥ 500
802.11n VHT40	2422	35170	35160	-	-	≥ 500
802.11n VHT40	2437	35130	35180	-	-	≥ 500
802.11n VHT40	2452	35180	35740	-	-	≥ 500
802.11n VHT40	2457	35130	35150	-	-	≥ 500
802.11n VHT40	2462	35130	35140	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.236	13.278	-	-
802.11b	2437	13.313	13.338	-	-
802.11b	2462	13.298	13.309	-	-
802.11b	2467	13.281	13.348	-	-
802.11b	2472	13.281	13.278	-	-
802.11g	2412	16.530	16.699	-	-
802.11g	2437	16.789	16.631	-	-
802.11g	2462	18.604	16.531	-	-
802.11g	2467	16.840	16.544	-	-
802.11g	2472	16.733	16.446	-	-
802.11n VHT20	2412	17.673	17.558	-	-
802.11n VHT20	2437	17.725	17.600	-	-
802.11n VHT20	2462	19.936	17.570	-	-
802.11n VHT20	2467	17.692	17.586	-	-
802.11n VHT20	2472	17.638	17.499	-	-
802.11n VHT40	2422	36.272	36.303	-	-
802.11n VHT40	2437	36.052	36.521	-	-
802.11n VHT40	2452	36.242	37.203	-	-
802.11n VHT40	2457	36.124	36.620	-	-
802.11n VHT40	2462	36.060	36.364	-	-

Maximum Power Spectral Density Measurement											
Mode	Freq. (MHz)	Measurement (dBm/3 kHz)					Max.Limit (dBm/ 3 kHz)				
		Ant-0	Ant-1	Ant-2	Ant-3	SUM	Ant-0	Ant-1	Ant-2	Ant-3	SUM
802.11b	2412	3.59	3.59	-	-	6.60	8.00	8.00	-	-	8.00
802.11b	2437	3.45	3.47	-	-	6.47	8.00	8.00	-	-	8.00
802.11b	2462	3.30	3.24	-	-	6.28	8.00	8.00	-	-	8.00
802.11b	2467	3.06	3.05	-	-	6.07	8.00	8.00	-	-	8.00
802.11b	2472	3.13	3.10	-	-	6.13	8.00	8.00	-	-	8.00
802.11g	2412	-10.54	-10.45	-	-	-7.48	8.00	8.00	-	-	8.00
802.11g	2437	-9.57	-9.37	-	-	-6.46	8.00	8.00	-	-	8.00
802.11g	2462	-10.30	-10.60	-	-	-7.44	8.00	8.00	-	-	8.00
802.11g	2467	-10.64	-10.07	-	-	-7.34	8.00	8.00	-	-	8.00
802.11g	2472	-14.33	-14.72	-	-	-11.51	8.00	8.00	-	-	8.00
802.11n VHT20	2412	-10.30	-9.60	-	-	-6.93	8.00	8.00	-	-	8.00
802.11n VHT20	2437	-10.26	-9.31	-	-	-6.75	8.00	8.00	-	-	8.00
802.11n VHT20	2462	-9.80	-9.80	-	-	-6.79	8.00	8.00	-	-	8.00
802.11n VHT20	2467	-10.18	-9.72	-	-	-6.93	8.00	8.00	-	-	8.00
802.11n VHT20	2472	-16.41	-16.35	-	-	-13.37	8.00	8.00	-	-	8.00
802.11n VHT40	2422	-13.28	-13.38	-	-	-10.32	8.00	8.00	-	-	8.00
802.11n VHT40	2437	-12.34	-12.82	-	-	-9.56	8.00	8.00	-	-	8.00
802.11n VHT40	2452	-13.58	-13.31	-	-	-10.43	8.00	8.00	-	-	8.00
802.11n VHT40	2457	-13.20	-13.55	-	-	-10.36	8.00	8.00	-	-	8.00
802.11n VHT40	2462	-19.39	-19.46	-	-	-16.41	8.00	8.00	-	-	8.00