

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	8.420	8.440	99.763	0.010	0.010
802.11g	2412	1.400	1.445	96.886	0.137	0.714
802.11n HT20	2412	1.310	1.355	96.679	0.147	0.763
802.11n HT40	2422	0.657	0.702	93.590	0.288	1.522
802.11n VHT20	2412	1.310	1.350	97.037	0.131	0.763
802.11n VHT40	2422	0.654	0.702	93.162	0.308	1.529

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	11.50	11.50	Command
802.11b	6	2437	11.00	11.00	
802.11b	11	2462	11.00	11.00	
802.11b	12	2467	11.00	11.00	
802.11b	13	2472	10.00	10.00	
802.11g	1	2412	12.00	12.00	
802.11g	6	2437	12.00	12.00	
802.11g	11	2462	12.00	12.00	
802.11g	12	2467	12.00	12.00	
802.11g	13	2472	11.50	11.50	
802.11n HT20	1	2412	13.00	13.00	
802.11n HT20	6	2437	13.00	13.00	
802.11n HT20	11	2462	13.00	13.00	
802.11n HT20	12	2467	13.00	13.00	
802.11n HT20	13	2472	10.50	10.50	
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	13.00	13.00	
802.11n HT40	11	2462	8.00	8.00	
802.11n VHT20	1	2412	13.00	13.00	
802.11n VHT20	6	2437	13.00	13.00	
802.11n VHT20	11	2462	13.00	13.00	
802.11n VHT20	12	2467	13.00	13.00	
802.11n VHT20	13	2472	10.50	10.50	
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	13.00	13.00	
802.11n VHT40	11	2462	8.00	8.00	

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	14.01	13.83	-	-	16.93	16.46	16.28	-	-	19.38	30.00	30.00	-	-	30.00
802.11b	6	2437	1M	13.90	14.02	-	-	16.97	16.22	16.40	-	-	19.32	30.00	30.00	-	-	30.00
802.11b	11	2462	1M	13.80	13.82	-	-	16.82	16.14	16.22	-	-	19.19	30.00	30.00	-	-	30.00
802.11b	12	2467	1M	13.73	13.72	-	-	16.74	16.10	16.08	-	-	19.10	30.00	30.00	-	-	30.00
802.11b	13	2472	1M	12.59	12.48	-	-	15.55	14.94	14.85	-	-	17.91	30.00	30.00	-	-	30.00
802.11g	1	2412	6M	13.57	13.96	-	-	16.78	21.98	22.42	-	-	25.22	30.00	30.00	-	-	30.00
802.11g	6	2437	6M	13.64	13.79	-	-	16.72	21.72	22.08	-	-	24.91	30.00	30.00	-	-	30.00
802.11g	11	2462	6M	13.62	13.89	-	-	16.76	22.07	22.33	-	-	25.21	30.00	30.00	-	-	30.00
802.11g	12	2467	6M	13.55	13.80	-	-	16.68	21.74	22.12	-	-	24.94	30.00	30.00	-	-	30.00
802.11g	13	2472	6M	13.11	13.43	-	-	16.28	21.54	21.83	-	-	24.70	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	13M	13.40	14.00	-	-	16.72	22.41	22.72	-	-	25.58	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	13M	13.37	13.88	-	-	16.64	22.09	22.25	-	-	25.18	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	13M	13.45	13.93	-	-	16.70	22.35	22.58	-	-	25.48	30.00	30.00	-	-	30.00
802.11n HT20	12	2467	13M	13.36	13.83	-	-	16.61	22.05	22.28	-	-	25.18	30.00	30.00	-	-	30.00
802.11n HT20	13	2472	13M	10.76	11.24	-	-	14.01	19.62	19.91	-	-	22.78	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	27M	13.53	13.80	-	-	16.68	22.37	22.84	-	-	25.62	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	27M	13.52	13.91	-	-	16.73	22.18	22.53	-	-	25.37	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	27M	13.54	13.86	-	-	16.71	22.46	22.95	-	-	25.72	30.00	30.00	-	-	30.00
802.11n HT40	10	2457	27M	13.53	13.90	-	-	16.73	22.21	22.53	-	-	25.38	30.00	30.00	-	-	30.00
802.11n HT40	11	2462	27M	8.94	9.10	-	-	12.03	21.21	21.55	-	-	24.39	30.00	30.00	-	-	30.00
802.11n VHT20	1	2412	MCS0	13.41	14.00	-	-	16.73	22.36	22.78	-	-	25.59	30.00	30.00	-	-	30.00
802.11n VHT20	6	2437	MCS0	13.47	13.84	-	-	16.67	22.09	22.33	-	-	25.22	30.00	30.00	-	-	30.00
802.11n VHT20	11	2462	MCS0	13.52	14.06	-	-	16.81	22.43	22.81	-	-	25.63	30.00	30.00	-	-	30.00
802.11n VHT20	12	2467	MCS0	13.42	13.88	-	-	16.67	22.08	22.30	-	-	25.20	30.00	30.00	-	-	30.00
802.11n VHT20	13	2472	MCS0	10.79	11.27	-	-	14.05	19.68	20.02	-	-	22.86	30.00	30.00	-	-	30.00
802.11n VHT40	3	2422	MCS0	13.55	13.84	-	-	16.71	22.45	22.85	-	-	25.66	30.00	30.00	-	-	30.00
802.11n VHT40	6	2437	MCS0	13.61	13.91	-	-	16.77	22.19	22.63	-	-	25.43	30.00	30.00	-	-	30.00
802.11n VHT40	9	2452	MCS0	13.63	13.85	-	-	16.75	22.60	22.87	-	-	25.75	30.00	30.00	-	-	30.00
802.11n VHT40	10	2457	MCS0	13.60	13.89	-	-	16.76	22.19	22.66	-	-	25.44	30.00	30.00	-	-	30.00
802.11n VHT40	11	2462	MCS0	9.06	9.23	-	-	12.15	21.28	21.63	-	-	24.47	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	8092	9095	-	-	≥ 500
802.11b	2437	9089	9094	-	-	≥ 500
802.11b	2462	9090	9092	-	-	≥ 500
802.11b	2467	9058	9021	-	-	≥ 500
802.11b	2472	9093	9102	-	-	≥ 500
802.11g	2412	15170	15150	-	-	≥ 500
802.11g	2437	15160	15150	-	-	≥ 500
802.11g	2462	15160	15150	-	-	≥ 500
802.11g	2467	15160	15150	-	-	≥ 500
802.11g	2472	15160	15150	-	-	≥ 500
802.11n VHT20	2412	15150	15740	-	-	≥ 500
802.11n VHT20	2437	15150	15740	-	-	≥ 500
802.11n VHT20	2462	15160	15730	-	-	≥ 500
802.11n VHT20	2467	15150	15750	-	-	≥ 500
802.11n VHT20	2472	15150	15730	-	-	≥ 500
802.11n VHT40	2422	35180	35170	-	-	≥ 500
802.11n VHT40	2437	35130	35140	-	-	≥ 500
802.11n VHT40	2452	35180	35180	-	-	≥ 500
802.11n VHT40	2457	35150	35140	-	-	≥ 500
802.11n VHT40	2462	35140	35130	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.405	13.428	-	-
802.11b	2437	13.426	13.408	-	-
802.11b	2462	13.426	13.420	-	-
802.11b	2467	13.418	13.417	-	-
802.11b	2472	13.444	13.432	-	-
802.11g	2412	16.773	16.539	-	-
802.11g	2437	16.784	16.536	-	-
802.11g	2462	16.787	16.537	-	-
802.11g	2467	16.783	16.530	-	-
802.11g	2472	16.779	16.540	-	-
802.11n VHT20	2412	17.666	17.574	-	-
802.11n VHT20	2437	17.683	17.575	-	-
802.11n VHT20	2462	17.715	17.570	-	-
802.11n VHT20	2467	17.708	17.581	-	-
802.11n VHT20	2472	17.699	17.578	-	-
802.11n VHT40	2422	36.196	36.531	-	-
802.11n VHT40	2437	36.131	36.388	-	-
802.11n VHT40	2452	36.311	36.530	-	-
802.11n VHT40	2457	36.137	36.400	-	-
802.11n VHT40	2462	36.184	36.338	-	-

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	3.68	3.63	-	-	6.67	8.00	8.00	-	-	8.00
802.11b	2437	3.64	3.61	-	-	6.64	8.00	8.00	-	-	8.00
802.11b	2462	3.34	3.48	-	-	6.42	8.00	8.00	-	-	8.00
802.11b	2467	3.38	3.39	-	-	6.40	8.00	8.00	-	-	8.00
802.11b	2472	2.29	2.31	-	-	5.31	8.00	8.00	-	-	8.00
802.11g	2412	-12.28	-12.20	-	-	-9.23	8.00	8.00	-	-	8.00
802.11g	2437	-13.26	-12.97	-	-	-10.10	8.00	8.00	-	-	8.00
802.11g	2462	-12.41	-12.80	-	-	-9.59	8.00	8.00	-	-	8.00
802.11g	2467	-11.44	-12.21	-	-	-8.80	8.00	8.00	-	-	8.00
802.11g	2472	-13.75	-12.80	-	-	-10.24	8.00	8.00	-	-	8.00
802.11n VHT20	2412	-12.72	-12.06	-	-	-9.37	8.00	8.00	-	-	8.00
802.11n VHT20	2437	-12.57	-12.16	-	-	-9.35	8.00	8.00	-	-	8.00
802.11n VHT20	2462	-12.65	-11.23	-	-	-8.87	8.00	8.00	-	-	8.00
802.11n VHT20	2467	-12.06	-12.24	-	-	-9.14	8.00	8.00	-	-	8.00
802.11n VHT20	2472	-14.12	-13.53	-	-	-10.80	8.00	8.00	-	-	8.00
802.11n VHT40	2422	-14.99	-15.25	-	-	-12.11	8.00	8.00	-	-	8.00
802.11n VHT40	2437	-14.02	-14.60	-	-	-11.29	8.00	8.00	-	-	8.00
802.11n VHT40	2452	-15.82	-15.34	-	-	-12.56	8.00	8.00	-	-	8.00
802.11n VHT40	2457	-15.14	-14.11	-	-	-11.58	8.00	8.00	-	-	8.00
802.11n VHT40	2462	-18.83	-19.41	-	-	-16.10	8.00	8.00	-	-	8.00