

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	8.400	8.432	99.620	0.017	0.010
802.11g	2412	1.398	1.446	96.681	0.147	0.715
802.11n HT20	2412	1.306	1.354	96.454	0.157	0.766
802.11n HT40	2422	0.650	0.701	92.723	0.328	1.539
802.11n VHT20	2412	1.308	1.355	96.517	0.154	0.765
802.11n VHT40	2422	0.652	0.701	93.012	0.315	1.533

2.4 GHz Band							
Mode	CH	Freq. (MHz)	RF power setting in Test SW				Test SW Version
			Ant-0	Ant-1	Ant-2	Ant-3	
802.11b	1	2412	11.00	11.00	-	-	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	10.50	10.50	-	-	
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	11.00	11.00	-	-	
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	13.00	13.00	-	-	
802.11n HT40	11	2462	12.50	12.50	-	-	
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	11.00	11.00	-	-	
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	13.00	13.00	-	-	
802.11n VHT40	11	2462	12.50	12.50	-	-	

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)	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	13.62	13.63	-	-	16.63	14.51	14.45	-	-	17.49	30.00	30.00	-	-	30.00
802.11b	6	2437	13.92	14.03	-	-	16.98	14.75	14.97	-	-	17.87	30.00	30.00	-	-	30.00
802.11b	11	2462	13.67	13.76	-	-	16.72	14.51	14.56	-	-	17.55	30.00	30.00	-	-	30.00
802.11b	12	2467	13.71	13.79	-	-	16.76	14.66	14.59	-	-	17.64	30.00	30.00	-	-	30.00
802.11b	13	2472	13.41	13.33	-	-	16.38	14.22	14.15	-	-	17.20	30.00	30.00	-	-	30.00
802.11g	1	2412	13.72	13.88	-	-	16.81	16.83	17.18	-	-	20.02	30.00	30.00	-	-	30.00
802.11g	6	2437	13.59	13.76	-	-	16.68	16.83	16.99	-	-	19.92	30.00	30.00	-	-	30.00
802.11g	11	2462	13.49	13.87	-	-	16.69	16.69	17.24	-	-	19.98	30.00	30.00	-	-	30.00
802.11g	12	2467	13.63	14.11	-	-	16.88	16.82	17.36	-	-	20.11	30.00	30.00	-	-	30.00
802.11g	13	2472	13.26	13.60	-	-	16.44	16.48	16.96	-	-	19.74	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	13.61	13.91	-	-	16.77	17.13	17.60	-	-	20.38	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	13.41	13.79	-	-	16.61	16.88	17.35	-	-	20.13	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	13.32	13.92	-	-	16.64	17.02	17.58	-	-	20.32	30.00	30.00	-	-	30.00
802.11n HT20	12	2467	13.51	14.10	-	-	16.82	17.07	17.77	-	-	20.44	30.00	30.00	-	-	30.00
802.11n HT20	13	2472	11.39	11.91	-	-	14.66	15.07	15.50	-	-	18.30	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	13.47	13.78	-	-	16.64	15.95	16.25	-	-	19.11	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	13.53	13.86	-	-	16.71	15.96	16.26	-	-	19.12	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	13.54	13.87	-	-	16.72	15.99	16.26	-	-	19.14	30.00	30.00	-	-	30.00
802.11n HT40	10	2457	13.53	14.12	-	-	16.84	15.87	16.44	-	-	19.17	30.00	30.00	-	-	30.00
802.11n HT40	11	2462	13.08	13.35	-	-	16.23	15.53	15.84	-	-	18.70	30.00	30.00	-	-	30.00
802.11n VHT20	1	2412	13.55	13.80	-	-	16.69	17.00	17.52	-	-	20.28	30.00	30.00	-	-	30.00
802.11n VHT20	6	2437	13.28	13.71	-	-	16.51	16.74	17.34	-	-	20.06	30.00	30.00	-	-	30.00
802.11n VHT20	11	2462	13.29	13.90	-	-	16.62	16.88	17.53	-	-	20.23	30.00	30.00	-	-	30.00
802.11n VHT20	12	2467	13.47	14.07	-	-	16.79	16.92	17.65	-	-	20.31	30.00	30.00	-	-	30.00
802.11n VHT20	13	2472	11.33	11.76	-	-	14.56	14.99	15.42	-	-	18.22	30.00	30.00	-	-	30.00
802.11n VHT40	3	2422	13.39	13.62	-	-	16.52	15.92	16.19	-	-	19.07	30.00	30.00	-	-	30.00
802.11n VHT40	6	2437	13.36	13.71	-	-	16.55	15.83	16.20	-	-	19.03	30.00	30.00	-	-	30.00
802.11n VHT40	9	2452	13.48	13.83	-	-	16.67	15.97	16.25	-	-	19.12	30.00	30.00	-	-	30.00
802.11n VHT40	10	2457	13.42	14.02	-	-	16.75	15.86	16.33	-	-	19.11	30.00	30.00	-	-	30.00
802.11n VHT40	11	2462	12.96	13.31	-	-	16.15	15.44	15.81	-	-	18.64	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	9097	9056	-	-	≥ 500
802.11b	2437	9095	8088	-	-	≥ 500
802.11b	2462	9084	9092	-	-	≥ 500
802.11b	2467	9034	8120	-	-	≥ 500
802.11b	2472	9092	8122	-	-	≥ 500
802.11g	2412	15150	15160	-	-	≥ 500
802.11g	2437	15170	15150	-	-	≥ 500
802.11g	2462	15160	15160	-	-	≥ 500
802.11g	2467	15160	15160	-	-	≥ 500
802.11g	2472	15160	15150	-	-	≥ 500
802.11n HT20	2412	15160	15160	-	-	≥ 500
802.11n HT20	2437	15150	15710	-	-	≥ 500
802.11n HT20	2462	15160	15160	-	-	≥ 500
802.11n HT20	2467	15160	15160	-	-	≥ 500
802.11n HT20	2472	15150	15720	-	-	≥ 500
802.11n HT40	2422	35180	35190	-	-	≥ 500
802.11n HT40	2437	35150	35150	-	-	≥ 500
802.11n HT40	2452	35190	35180	-	-	≥ 500
802.11n HT40	2457	35160	35140	-	-	≥ 500
802.11n HT40	2462	35160	35140	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.528	13.382	-	-
802.11b	2437	13.357	13.421	-	-
802.11b	2462	13.351	13.415	-	-
802.11b	2467	13.453	13.365	-	-
802.11b	2472	13.462	13.373	-	-
802.11g	2412	16.759	16.537	-	-
802.11g	2437	16.790	16.541	-	-
802.11g	2462	16.752	16.537	-	-
802.11g	2467	16.784	16.553	-	-
802.11g	2472	16.810	16.540	-	-
802.11n HT20	2412	17.646	17.628	-	-
802.11n HT20	2437	17.678	17.609	-	-
802.11n HT20	2462	17.665	17.622	-	-
802.11n HT20	2467	17.682	17.620	-	-
802.11n HT20	2472	17.676	17.628	-	-
802.11n HT40	2422	36.334	36.389	-	-
802.11n HT40	2437	36.213	36.252	-	-
802.11n HT40	2452	36.420	36.383	-	-
802.11n HT40	2457	36.292	36.251	-	-
802.11n HT40	2462	36.269	36.285	-	-

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	2.78	2.53	-	-	5.67	8.00	8.00	-	-	8.00
802.11b	2437	3.15	3.13	-	-	6.15	8.00	8.00	-	-	8.00
802.11b	2462	3.03	2.99	-	-	6.02	8.00	8.00	-	-	8.00
802.11b	2467	3.12	2.90	-	-	6.02	8.00	8.00	-	-	8.00
802.11b	2472	2.54	2.34	-	-	5.45	8.00	8.00	-	-	8.00
802.11g	2412	-13.27	-13.42	-	-	-10.33	8.00	8.00	-	-	8.00
802.11g	2437	-13.28	-13.09	-	-	-10.17	8.00	8.00	-	-	8.00
802.11g	2462	-13.11	-12.24	-	-	-9.64	8.00	8.00	-	-	8.00
802.11g	2467	-13.83	-12.39	-	-	-10.04	8.00	8.00	-	-	8.00
802.11g	2472	-13.94	-13.35	-	-	-10.62	8.00	8.00	-	-	8.00
802.11n HT20	2412	-13.78	-12.71	-	-	-10.20	8.00	8.00	-	-	8.00
802.11n HT20	2437	-13.53	-12.48	-	-	-9.96	8.00	8.00	-	-	8.00
802.11n HT20	2462	-13.39	-12.65	-	-	-9.99	8.00	8.00	-	-	8.00
802.11n HT20	2467	-12.83	-12.83	-	-	-9.82	8.00	8.00	-	-	8.00
802.11n HT20	2472	-14.92	-13.34	-	-	-11.05	8.00	8.00	-	-	8.00
802.11n HT40	2422	-15.43	-14.90	-	-	-12.15	8.00	8.00	-	-	8.00
802.11n HT40	2437	-15.45	-13.82	-	-	-11.55	8.00	8.00	-	-	8.00
802.11n HT40	2452	-15.71	-14.63	-	-	-12.13	8.00	8.00	-	-	8.00
802.11n HT40	2457	-14.63	-15.22	-	-	-11.90	8.00	8.00	-	-	8.00
802.11n HT40	2462	-15.20	-13.80	-	-	-11.43	8.00	8.00	-	-	8.00