

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	13.060	13.060	100.000	0.000	0.010
802.11g	2412	14.610	14.610	100.000	0.000	0.010
802.11n HT20	2412	15.310	15.310	100.000	0.000	0.010
802.11n HT40	2422	17.110	17.110	100.000	0.000	0.010

2.4 GHz Band							
Mode	Channel	Freq. (MHz)	RF power setting in Test SW				Test SW Version
			Ant-0	Ant-1	Ant-2	Ant-3	
802.11b	1	2412	16.00	16.00	-	-	MPTool
802.11b	6	2437	19.00	19.00	-	-	
802.11b	11	2462	21.00	21.00	-	-	
802.11g	1	2412	31.00	31.00	-	-	
802.11g	6	2437	31.00	31.00	-	-	
802.11g	11	2462	31.00	31.00	-	-	
802.11n HT20	1	2412	36.00	36.00	-	-	
802.11n HT20	6	2437	36.00	36.00	-	-	
802.11n HT20	11	2462	37.00	37.00	-	-	
802.11n HT40	3	2422	38.00	38.00	-	-	
802.11n HT40	6	2437	44.00	44.00	-	-	
802.11n HT40	9	2452	43.00	43.00	-	-	

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	9.44	8.46	-	-	11.99	12.43	11.15	-	-	14.85	30.00	30.00	-	-	30.00
802.11b	6	2437	1M	11.40	10.56	-	-	14.01	13.98	13.42	-	-	16.72	30.00	30.00	-	-	30.00
802.11b	11	2462	1M	12.59	11.30	-	-	15.00	15.21	14.32	-	-	17.80	30.00	30.00	-	-	30.00
802.11g	1	2412	6M	13.34	12.65	-	-	16.02	22.80	22.70	-	-	25.76	30.00	30.00	-	-	30.00
802.11g	6	2437	6M	13.44	12.63	-	-	16.06	22.95	22.70	-	-	25.84	30.00	30.00	-	-	30.00
802.11g	11	2462	6M	12.95	12.30	-	-	15.65	22.68	22.34	-	-	25.52	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	13M	15.15	14.85	-	-	18.01	23.94	23.98	-	-	26.97	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	13M	14.92	14.80	-	-	17.87	23.83	23.90	-	-	26.88	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	13M	14.83	14.78	-	-	17.82	23.91	23.89	-	-	26.91	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	27M	16.00	15.95	-	-	18.99	24.67	24.89	-	-	27.79	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	27M	17.81	18.10	-	-	20.97	25.74	26.01	-	-	28.89	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	27M	17.05	17.61	-	-	20.35	25.35	25.59	-	-	28.48	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	10126	10114	-	-	≥ 500
802.11b	2437	10035	10115	-	-	≥ 500
802.11b	2462	10127	10115	-	-	≥ 500
802.11g	2412	16530	16570	-	-	≥ 500
802.11g	2437	16590	16550	-	-	≥ 500
802.11g	2462	16520	16560	-	-	≥ 500
802.11n HT20	2412	17810	17700	-	-	≥ 500
802.11n HT20	2437	17800	17710	-	-	≥ 500
802.11n HT20	2462	17820	17700	-	-	≥ 500
802.11n HT40	2422	36410	36410	-	-	≥ 500
802.11n HT40	2437	36410	36390	-	-	≥ 500
802.11n HT40	2452	36440	36400	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	14.965	15.007	-	-
802.11b	2437	15.009	14.990	-	-
802.11b	2462	14.960	14.975	-	-
802.11g	2412	16.797	16.823	-	-
802.11g	2437	16.890	16.777	-	-
802.11g	2462	16.795	16.765	-	-
802.11n HT20	2412	17.902	17.796	-	-
802.11n HT20	2437	17.877	17.791	-	-
802.11n HT20	2462	17.911	17.797	-	-
802.11n HT40	2422	36.021	36.007	-	-
802.11n HT40	2437	36.076	36.030	-	-
802.11n HT40	2452	36.094	36.051	-	-

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	-20.17	-21.06	-	-	-17.58	8.00	8.00	-	-	8.00
802.11b	2437	-18.22	-19.58	-	-	-15.84	8.00	8.00	-	-	8.00
802.11b	2462	-17.82	-18.49	-	-	-15.13	8.00	8.00	-	-	8.00
802.11g	2412	-14.47	-12.27	-	-	-10.22	8.00	8.00	-	-	8.00
802.11g	2437	-15.18	-12.16	-	-	-10.40	8.00	8.00	-	-	8.00
802.11g	2462	-15.11	-12.54	-	-	-10.63	8.00	8.00	-	-	8.00
802.11n HT20	2412	-12.92	-11.60	-	-	-9.20	8.00	8.00	-	-	8.00
802.11n HT20	2437	-12.22	-11.55	-	-	-8.86	8.00	8.00	-	-	8.00
802.11n HT20	2462	-12.77	-11.62	-	-	-9.15	8.00	8.00	-	-	8.00
802.11n HT40	2422	-13.17	-13.93	-	-	-10.52	8.00	8.00	-	-	8.00
802.11n HT40	2437	-12.62	-12.70	-	-	-9.65	8.00	8.00	-	-	8.00
802.11n HT40	2452	-12.10	-13.20	-	-	-9.60	8.00	8.00	-	-	8.00