

Appendix A: Test Data

Duty cycle						
Band	Frequency (MHz)	On time (ms)	On+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	2412	8.520	8.910	95.623	0.194	0.117
802.11g	2412	1.420	1.510	94.040	0.267	0.704
802.11n HT20	2412	1.325	1.545	85.761	0.667	0.755
802.11n HT40	2422	0.660	1.180	55.932	2.523	1.515

2.4 GHz Band							
Mod.	Freq. (MHz)	Data Rate	RF power setting in Test SW				Test SW Version
			Ant-0	Ant-1	Ant-2	Ant-3	
802.11b	2412	1M	15.75	-	-	-	REALTEK 11n 8723FU USB WLAN NIC
802.11b	2437	1M	15.50	-	-	-	
802.11b	2462	1M	15.00	-	-	-	
802.11g	2412	6M	15.50	-	-	-	
802.11g	2437	6M	15.50	-	-	-	
802.11g	2462	6M	15.50	-	-	-	
802.11n HT20	2412	6.5M	14.50	-	-	-	
802.11n HT20	2437	6.5M	14.50	-	-	-	
802.11n HT20	2462	6.5M	14.50	-	-	-	
802.11n HT40	2422	13.5M	14.50	-	-	-	
802.11n HT40	2437	13.5M	14.50	-	-	-	
802.11n HT40	2452	13.5M	14.50	-	-	-	

2.4 GHz Band																	
Mod.	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	2412	1M	14.81	-	-	-	-	17.62	-	-	-	-	30.00	-	-	-	-
802.11b	2437	1M	15.14	-	-	-	-	17.81	-	-	-	-	30.00	-	-	-	-
802.11b	2462	1M	14.86	-	-	-	-	17.65	-	-	-	-	30.00	-	-	-	-
802.11g	2412	6M	15.32	-	-	-	-	22.91	-	-	-	-	30.00	-	-	-	-
802.11g	2437	6M	15.29	-	-	-	-	22.85	-	-	-	-	30.00	-	-	-	-
802.11g	2462	6M	15.25	-	-	-	-	22.82	-	-	-	-	30.00	-	-	-	-
802.11n HT20	2412	6.5M	14.45	-	-	-	-	21.91	-	-	-	-	30.00	-	-	-	-
802.11n HT20	2437	6.5M	14.37	-	-	-	-	21.82	-	-	-	-	30.00	-	-	-	-
802.11n HT20	2462	6.5M	14.32	-	-	-	-	21.75	-	-	-	-	30.00	-	-	-	-
802.11n HT40	2422	13.5M	14.43	-	-	-	-	21.92	-	-	-	-	30.00	-	-	-	-
802.11n HT40	2437	13.5M	14.39	-	-	-	-	21.88	-	-	-	-	30.00	-	-	-	-
802.11n HT40	2452	13.5M	14.35	-	-	-	-	21.82	-	-	-	-	30.00	-	-	-	-

6 dB Bandwidth						
Mod.	Freq. (MHz)	6 dB Bandwidth (kHz)				6 dB Bandwidth Min.Limit (kHz)
		Ant-0	Ant-1	Ant-2	Ant-3	
802.11b	2412	9608	-	-	-	≥ 500
802.11b	2437	10070	-	-	-	≥ 500
802.11b	2462	9582	-	-	-	≥ 500
802.11g	2412	15150	-	-	-	≥ 500
802.11g	2437	15120	-	-	-	≥ 500
802.11g	2462	15120	-	-	-	≥ 500
802.11n HT20	2412	15130	-	-	-	≥ 500
802.11n HT20	2437	15120	-	-	-	≥ 500
802.11n HT20	2462	15110	-	-	-	≥ 500
802.11n HT40	2422	32620	-	-	-	≥ 500
802.11n HT40	2437	32600	-	-	-	≥ 500
802.11n HT40	2452	32620	-	-	-	≥ 500

99 % Occupied BW					
Mod.	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	14.01	-	-	-
802.11b	2437	14.00	-	-	-
802.11b	2462	13.99	-	-	-
802.11g	2412	16.40	-	-	-
802.11g	2437	16.38	-	-	-
802.11g	2462	16.41	-	-	-
802.11n HT20	2412	17.47	-	-	-
802.11n HT20	2437	17.48	-	-	-
802.11n HT20	2462	17.47	-	-	-
802.11n HT40	2422	35.29	-	-	-
802.11n HT40	2437	35.28	-	-	-
802.11n HT40	2452	35.30	-	-	-

Maximum Power Spectral Density Measurement											
Mod.	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	-8.40	-	-	-	-	8.00	-	-	-	-
802.11b	2437	-7.32	-	-	-	-	8.00	-	-	-	-
802.11b	2462	-8.07	-	-	-	-	8.00	-	-	-	-
802.11g	2412	-8.83	-	-	-	-	8.00	-	-	-	-
802.11g	2437	-8.45	-	-	-	-	8.00	-	-	-	-
802.11g	2462	-8.65	-	-	-	-	8.00	-	-	-	-
802.11n HT20	2412	-9.43	-	-	-	-	8.00	-	-	-	-
802.11n HT20	2437	-8.96	-	-	-	-	8.00	-	-	-	-
802.11n HT20	2462	-9.79	-	-	-	-	8.00	-	-	-	-
802.11n HT40	2422	-13.01	-	-	-	-	8.00	-	-	-	-
802.11n HT40	2437	-12.15	-	-	-	-	8.00	-	-	-	-
802.11n HT40	2452	-12.91	-	-	-	-	8.00	-	-	-	-