

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	30.000	30.000	100.000	0.000	0.010
802.11g	2412	1.409	1.424	98.947	0.046	0.010
802.11n HT20	2412	1.318	1.333	98.875	0.049	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	14.00	-	-	-	Randora R22 19.3201
802.11b	6	2437	13.00	-	-	-	
802.11b	11	2462	13.00	-	-	-	
802.11b	12	2467	13.00	-	-	-	
802.11b	13	2472	13.00	-	-	-	
802.11g	1	2412	5.00	-	-	-	
802.11g	6	2437	4.00	-	-	-	
802.11g	11	2462	4.00	-	-	-	
802.11g	12	2467	4.00	-	-	-	
802.11g	13	2472	4.00	-	-	-	
802.11n HT20	1	2412	5.00	-	-	-	
802.11n HT20	6	2437	4.00	-	-	-	
802.11n HT20	11	2462	4.00	-	-	-	
802.11n HT20	12	2467	4.00	-	-	-	
802.11n HT20	13	2472	4.00	-	-	-	

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	12.77	-	-	-	-	15.90	-	-	-	-	30.00	-	-	-	-
802.11b	6	2437	1M	13.02	-	-	-	-	16.11	-	-	-	-	30.00	-	-	-	-
802.11b	11	2462	1M	12.72	-	-	-	-	15.85	-	-	-	-	30.00	-	-	-	-
802.11b	12	2467	1M	13.00	-	-	-	-	16.10	-	-	-	-	30.00	-	-	-	-
802.11b	13	2472	1M	13.13	-	-	-	-	16.18	-	-	-	-	30.00	-	-	-	-
802.11g	1	2412	6M	5.00	-	-	-	-	13.95	-	-	-	-	30.00	-	-	-	-
802.11g	6	2437	6M	5.26	-	-	-	-	14.22	-	-	-	-	30.00	-	-	-	-
802.11g	11	2462	6M	5.02	-	-	-	-	14.01	-	-	-	-	30.00	-	-	-	-
802.11g	12	2467	6M	5.13	-	-	-	-	14.18	-	-	-	-	30.00	-	-	-	-
802.11g	13	2472	6M	5.05	-	-	-	-	14.05	-	-	-	-	30.00	-	-	-	-
802.11n HT20	1	2412	6.5M	4.57	-	-	-	-	13.38	-	-	-	-	30.00	-	-	-	-
802.11n HT20	6	2437	6.5M	4.58	-	-	-	-	13.43	-	-	-	-	30.00	-	-	-	-
802.11n HT20	11	2462	6.5M	4.49	-	-	-	-	13.24	-	-	-	-	30.00	-	-	-	-
802.11n HT20	12	2467	6.5M	4.63	-	-	-	-	13.48	-	-	-	-	30.00	-	-	-	-
802.11n HT20	13	2472	6.5M	4.39	-	-	-	-	13.12	-	-	-	-	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	8640	-	-	-	≥ 500
802.11b	2437	8632	-	-	-	≥ 500
802.11b	2462	9103	-	-	-	≥ 500
802.11b	2467	9117	-	-	-	≥ 500
802.11b	2472	8663	-	-	-	≥ 500
802.11g	2412	16160	-	-	-	≥ 500
802.11g	2437	16400	-	-	-	≥ 500
802.11g	2462	16420	-	-	-	≥ 500
802.11g	2467	16370	-	-	-	≥ 500
802.11g	2472	15960	-	-	-	≥ 500
802.11n HT20	2412	17360	-	-	-	≥ 500
802.11n HT20	2437	17370	-	-	-	≥ 500
802.11n HT20	2462	17640	-	-	-	≥ 500
802.11n HT20	2467	17370	-	-	-	≥ 500
802.11n HT20	2472	16410	-	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	11.900	-	-	-
802.11b	2437	11.951	-	-	-
802.11b	2462	12.000	-	-	-
802.11b	2467	11.926	-	-	-
802.11b	2472	11.727	-	-	-
802.11g	2412	17.399	-	-	-
802.11g	2437	17.278	-	-	-
802.11g	2462	17.391	-	-	-
802.11g	2467	17.223	-	-	-
802.11g	2472	17.097	-	-	-
802.11n HT20	2412	18.085	-	-	-
802.11n HT20	2437	18.043	-	-	-
802.11n HT20	2462	18.115	-	-	-
802.11n HT20	2467	18.005	-	-	-
802.11n HT20	2472	17.895	-	-	-

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	0.68	-	-	-	-	8.00	-	-	-	-
802.11b	2437	0.48	-	-	-	-	8.00	-	-	-	-
802.11b	2462	0.42	-	-	-	-	8.00	-	-	-	-
802.11b	2467	0.86	-	-	-	-	8.00	-	-	-	-
802.11b	2472	0.73	-	-	-	-	8.00	-	-	-	-
802.11g	2412	-20.02	-	-	-	-	8.00	-	-	-	-
802.11g	2437	-20.20	-	-	-	-	8.00	-	-	-	-
802.11g	2462	-20.60	-	-	-	-	8.00	-	-	-	-
802.11g	2467	-21.82	-	-	-	-	8.00	-	-	-	-
802.11g	2472	-21.67	-	-	-	-	8.00	-	-	-	-
802.11n HT20	2412	-22.15	-	-	-	-	8.00	-	-	-	-
802.11n HT20	2437	-22.51	-	-	-	-	8.00	-	-	-	-
802.11n HT20	2462	-22.21	-	-	-	-	8.00	-	-	-	-
802.11n HT20	2467	-22.17	-	-	-	-	8.00	-	-	-	-
802.11n HT20	2472	-20.96	-	-	-	-	8.00	-	-	-	-

電波暴露量之評估									
Band	Frequency (MHz)	Limit mW/cm ²	Distance	Power	ANT Gain	Numeric Gain	Duty Cycle	Power with Duty cycle	Power Density
			cm	(dBm)				(mW)	mW/cm ²
			[R]	[P]				[P]x[G]	[S]
2.4G_WLAN	2412-2472 MHz	1.00	20	13.13	-0.50	0.89	1.00	18.297	0.0036