

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	0.668	0.676	98.817	0.052	0.010
802.11g	2412	2.105	2.112	99.669	0.014	0.010
802.11n HT20	2412	10.000	10.000	100.000	0.000	0.010
802.11n HT40	2422	10.000	10.000	100.000	0.000	0.010
802.11ax HE20	2412	10.000	10.000	100.000	0.000	0.010
802.11ax HE40	2422	10.000	10.000	100.000	0.000	0.010

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	13.00	13.00	-	-	QRCT4
802.11b	6	2437	12.00	12.00	-	-	
802.11b	11	2462	12.50	12.50	-	-	
802.11g	1	2412	13.00	13.00	-	-	
802.11g	6	2437	12.00	12.00	-	-	
802.11g	11	2462	12.50	12.50	-	-	
802.11n HT20	1	2412	13.00	13.00	-	-	
802.11n HT20	6	2437	12.00	12.00	-	-	
802.11n HT20	11	2462	12.50	12.50	-	-	
802.11n HT40	3	2422	13.00	13.00	-	-	
802.11n HT40	6	2437	12.00	12.00	-	-	
802.11n HT40	9	2452	12.50	12.50	-	-	
802.11n VHT20	1	2412	13.00	13.00	-	-	
802.11n VHT20	6	2437	12.00	12.00	-	-	
802.11n VHT20	11	2462	12.50	12.50	-	-	
802.11n VHT40	3	2422	13.00	13.00	-	-	
802.11n VHT40	6	2437	12.00	12.00	-	-	
802.11n VHT40	9	2452	12.50	12.50	-	-	
802.11ax HE20	1	2412	13.00	13.00	-	-	
802.11ax HE20	6	2437	12.00	12.00	-	-	
802.11ax HE20	11	2462	12.50	12.50	-	-	
802.11ax HE40	3	2422	13.00	13.00	-	-	
802.11ax HE40	6	2437	12.00	12.00	-	-	
802.11ax HE40	9	2452	12.50	12.50	-	-	

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	9.26	10.18	-	-	12.75	11.94	12.96	-	-	15.49	30.00	30.00	-	-	30.00
802.11b	6	2437	1M	9.31	10.06	-	-	12.71	11.99	12.70	-	-	15.37	30.00	30.00	-	-	30.00
802.11b	11	2462	1M	9.29	10.33	-	-	12.85	12.16	13.30	-	-	15.78	30.00	30.00	-	-	30.00
802.11g	1	2412	6M	9.06	10.11	-	-	12.63	17.46	18.45	-	-	20.99	30.00	30.00	-	-	30.00
802.11g	6	2437	6M	9.09	10.16	-	-	12.67	17.98	19.18	-	-	21.63	30.00	30.00	-	-	30.00
802.11g	11	2462	6M	9.15	10.22	-	-	12.73	18.41	20.18	-	-	22.39	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	13M	9.39	10.38	-	-	12.92	17.98	18.68	-	-	21.35	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	13M	9.36	10.26	-	-	12.84	18.22	18.72	-	-	21.49	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	13M	9.33	10.45	-	-	12.94	18.66	20.79	-	-	22.86	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	27M	9.68	10.55	-	-	13.15	18.27	19.51	-	-	21.94	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	27M	9.32	10.51	-	-	12.97	18.01	19.14	-	-	21.62	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	27M	9.34	10.52	-	-	12.98	18.68	19.79	-	-	22.28	30.00	30.00	-	-	30.00
802.11n VHT20	1	2412	MCS0	9.27	10.47	-	-	12.92	17.65	19.24	-	-	21.53	30.00	30.00	-	-	30.00
802.11n VHT20	6	2437	MCS0	9.27	10.30	-	-	12.83	17.90	18.95	-	-	21.47	30.00	30.00	-	-	30.00
802.11n VHT20	11	2462	MCS0	9.27	10.49	-	-	12.93	19.33	21.06	-	-	23.29	30.00	30.00	-	-	30.00
802.11n VHT40	3	2422	MCS0	9.28	10.50	-	-	12.94	18.07	19.26	-	-	21.72	30.00	30.00	-	-	30.00
802.11n VHT40	6	2437	MCS0	9.43	10.41	-	-	12.96	18.00	19.17	-	-	21.63	30.00	30.00	-	-	30.00
802.11n VHT40	9	2452	MCS0	9.44	10.30	-	-	12.90	18.55	19.51	-	-	22.07	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412	MCS0	9.28	10.27	-	-	12.81	18.54	19.45	-	-	22.03	30.00	30.00	-	-	30.00
802.11ax HE20	6	2437	MCS0	9.45	10.44	-	-	12.98	18.86	20.11	-	-	22.54	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	MCS0	9.47	10.31	-	-	12.92	19.74	20.76	-	-	23.29	30.00	30.00	-	-	30.00
802.11ax HE40	3	2422	MCS0	9.21	10.24	-	-	12.77	18.50	19.55	-	-	22.07	30.00	30.00	-	-	30.00
802.11ax HE40	6	2437	MCS0	9.26	10.45	-	-	12.91	18.39	19.79	-	-	22.16	30.00	30.00	-	-	30.00
802.11ax HE40	9	2452	MCS0	9.31	10.41	-	-	12.91	18.93	20.26	-	-	22.66	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	8116	8116	-	-	≥ 500
802.11b	2437	8080	8079	-	-	≥ 500
802.11b	2462	8054	7626	-	-	≥ 500
802.11g	2412	16360	16370	-	-	≥ 500
802.11g	2437	15760	15760	-	-	≥ 500
802.11g	2462	15480	15700	-	-	≥ 500
802.11n HT20	2412	18970	18940	-	-	≥ 500
802.11n HT20	2437	17890	17840	-	-	≥ 500
802.11n HT20	2462	18330	16270	-	-	≥ 500
802.11n HT40	2422	35230	35140	-	-	≥ 500
802.11n HT40	2437	35200	35130	-	-	≥ 500
802.11n HT40	2452	36000	35790	-	-	≥ 500
802.11ax HE20	2412	18970	18940	-	-	≥ 500
802.11ax HE20	2437	17890	17840	-	-	≥ 500
802.11ax HE20	2462	18330	16270	-	-	≥ 500
802.11ax HE40	2422	18970	18940	-	-	≥ 500
802.11ax HE40	2437	17890	17840	-	-	≥ 500
802.11ax HE40	2452	18330	16270	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.270	13.346	-	-
802.11b	2437	13.042	12.911	-	-
802.11b	2462	12.789	12.637	-	-
802.11g	2412	16.453	16.436	-	-
802.11g	2437	16.357	16.330	-	-
802.11g	2462	16.284	16.250	-	-
802.11n HT20	2412	17.601	17.618	-	-
802.11n HT20	2437	17.500	17.493	-	-
802.11n HT20	2462	17.417	17.416	-	-
802.11n HT40	2422	36.039	36.132	-	-
802.11n HT40	2437	35.991	35.935	-	-
802.11n HT40	2452	36.315	36.324	-	-
802.11ax HE20	2412	18.916	18.937	-	-
802.11ax HE20	2437	18.844	18.808	-	-
802.11ax HE20	2462	18.783	18.740	-	-
802.11ax HE40	2422	37.710	37.693	-	-
802.11ax HE40	2437	37.712	37.665	-	-
802.11ax HE40	2452	37.924	37.925	-	-

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	-11.57	-10.20	-	-	-7.82	8.00	8.00	-	-	8.00	
802.11b	2437	-10.14	-9.32	-	-	-6.70	8.00	8.00	-	-	8.00	
802.11b	2462	-10.73	-9.79	-	-	-7.22	8.00	8.00	-	-	8.00	
802.11g	2412	-13.66	-12.10	-	-	-9.80	8.00	8.00	-	-	8.00	
802.11g	2437	-12.85	-12.51	-	-	-9.67	8.00	8.00	-	-	8.00	
802.11g	2462	-10.77	-11.52	-	-	-8.12	8.00	8.00	-	-	8.00	
802.11n HT20	2412	-13.31	-11.42	-	-	-9.25	8.00	8.00	-	-	8.00	
802.11n HT20	2437	-12.27	-12.03	-	-	-9.14	8.00	8.00	-	-	8.00	
802.11n HT20	2462	-11.61	-10.42	-	-	-7.96	8.00	8.00	-	-	8.00	
802.11n HT40	2422	-15.13	-12.17	-	-	-10.39	8.00	8.00	-	-	8.00	
802.11n HT40	2437	-14.17	-14.35	-	-	-11.25	8.00	8.00	-	-	8.00	
802.11n HT40	2452	-14.48	-13.72	-	-	-11.07	8.00	8.00	-	-	8.00	
802.11ax HE20	2412	-13.20	-12.16	-	-	-9.64	8.00	8.00	-	-	8.00	
802.11ax HE20	2437	-11.97	-11.50	-	-	-8.72	8.00	8.00	-	-	8.00	
802.11ax HE20	2462	-11.83	-11.23	-	-	-8.51	8.00	8.00	-	-	8.00	
802.11ax HE40	2422	-14.24	-14.90	-	-	-11.55	8.00	8.00	-	-	8.00	
802.11ax HE40	2437	-14.27	-13.32	-	-	-10.76	8.00	8.00	-	-	8.00	
802.11ax HE40	2452	-15.63	-14.78	-	-	-12.17	8.00	8.00	-	-	8.00	