

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	8.250	8.260	99.879	0.005	0.010
802.11g	2412	1.370	1.410	97.163	0.125	0.730
802.11n HT20	2412	1.160	1.205	96.266	0.165	0.862
802.11n HT40	2422	0.579	0.627	92.344	0.346	1.727
802.11n VHT20	2412	1.160	1.205	96.266	0.165	0.862
802.11n VHT40	2422	0.582	0.627	92.823	0.323	1.718
802.11ax HE20	2412	1.000	1.040	96.154	0.170	1.000
802.11ax HE40	2422	0.528	0.573	92.147	0.355	1.894

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	15.00	-	-	-	AX Series MP Toolkit_v2.0.41
802.11b	6	2437	14.50	-	-	-	
802.11b	11	2462	15.00	-	-	-	
802.11g	1	2412	16.00	-	-	-	
802.11g	6	2437	15.50	-	-	-	
802.11g	11	2462	16.50	-	-	-	
802.11n HT20	1	2412	15.50	-	-	-	
802.11n HT20	6	2437	15.50	-	-	-	
802.11n HT20	11	2462	16.50	-	-	-	
802.11n HT40	3	2422	15.50	-	-	-	
802.11n HT40	6	2437	15.50	-	-	-	
802.11n HT40	9	2452	16.50	-	-	-	
802.11n VHT20	1	2412	15.50	-	-	-	
802.11n VHT20	6	2437	15.50	-	-	-	
802.11n VHT20	11	2462	16.50	-	-	-	
802.11n VHT40	3	2422	15.50	-	-	-	
802.11n VHT40	6	2437	16.00	-	-	-	
802.11n VHT40	9	2452	16.50	-	-	-	
802.11ax HE20	1	2412	16.00	-	-	-	
802.11ax HE20	6	2437	16.00	-	-	-	
802.11ax HE20	11	2462	17.00	-	-	-	
802.11ax HE40	3	2422	15.50	-	-	-	
802.11ax HE40	6	2437	16.00	-	-	-	
802.11ax HE40	9	2452	17.00	-	-	-	

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	Ant-0	Ant-1	Ant-2	Ant-3	Ant-0	Ant-1	Ant-2	Ant-3
802.11b	1	2412	1M	17.43	-	-	-	20.00	-	-	-	30.00	-	-	-
802.11b	6	2437	1M	17.37	-	-	-	20.06	-	-	-	30.00	-	-	-
802.11b	11	2462	1M	17.42	-	-	-	19.89	-	-	-	30.00	-	-	-
802.11g	1	2412	6M	17.30	-	-	-	25.11	-	-	-	30.00	-	-	-
802.11g	6	2437	6M	16.99	-	-	-	25.28	-	-	-	30.00	-	-	-
802.11g	11	2462	6M	17.01	-	-	-	25.24	-	-	-	30.00	-	-	-
802.11n HT20	1	2412	6.5M	16.90	-	-	-	25.45	-	-	-	30.00	-	-	-
802.11n HT20	6	2437	6.5M	17.03	-	-	-	25.61	-	-	-	30.00	-	-	-
802.11n HT20	11	2462	6.5M	16.97	-	-	-	25.55	-	-	-	30.00	-	-	-
802.11n HT40	3	2422	13.5M	17.09	-	-	-	25.16	-	-	-	30.00	-	-	-
802.11n HT40	6	2437	13.5M	17.14	-	-	-	25.21	-	-	-	30.00	-	-	-
802.11n HT40	9	2452	13.5M	17.06	-	-	-	25.10	-	-	-	30.00	-	-	-
802.11n VHT20	1	2412	MCS0	17.01	-	-	-	25.47	-	-	-	30.00	-	-	-
802.11n VHT20	6	2437	MCS0	17.07	-	-	-	25.62	-	-	-	30.00	-	-	-
802.11n VHT20	11	2462	MCS0	17.20	-	-	-	25.74	-	-	-	30.00	-	-	-
802.11n VHT40	3	2422	MCS0	17.11	-	-	-	24.97	-	-	-	30.00	-	-	-
802.11n VHT40	6	2437	MCS0	17.33	-	-	-	25.53	-	-	-	30.00	-	-	-
802.11n VHT40	9	2452	MCS0	17.07	-	-	-	24.84	-	-	-	30.00	-	-	-
802.11ax HE20	1	2412	MCS0	17.07	-	-	-	26.18	-	-	-	30.00	-	-	-
802.11ax HE20	6	2437	MCS0	17.22	-	-	-	26.27	-	-	-	30.00	-	-	-
802.11ax HE20	11	2462	MCS0	17.24	-	-	-	26.13	-	-	-	30.00	-	-	-
802.11ax HE40	3	2422	MCS0	17.16	-	-	-	25.18	-	-	-	30.00	-	-	-
802.11ax HE40	6	2437	MCS0	17.44	-	-	-	25.71	-	-	-	30.00	-	-	-
802.11ax HE40	9	2452	MCS0	17.40	-	-	-	25.72	-	-	-	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	10129	-	-	-	≥ 500
802.11b	2437	10133	-	-	-	≥ 500
802.11b	2462	10129	-	-	-	≥ 500
802.11g	2412	15160	-	-	-	≥ 500
802.11g	2437	15150	-	-	-	≥ 500
802.11g	2462	15160	-	-	-	≥ 500
802.11ax HE20	2412	15170	-	-	-	≥ 500
802.11ax HE20	2437	15170	-	-	-	≥ 500
802.11ax HE20	2462	15170	-	-	-	≥ 500
802.11ax HE40	2422	35160	-	-	-	≥ 500
802.11ax HE40	2437	35170	-	-	-	≥ 500
802.11ax HE40	2452	35170	-	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	14.016	-	-	-
802.11b	2437	14.013	-	-	-
802.11b	2462	14.021	-	-	-
802.11g	2412	16.249	-	-	-
802.11g	2437	16.250	-	-	-
802.11g	2462	16.255	-	-	-
802.11ax HE20	2412	18.728	-	-	-
802.11ax HE20	2437	18.728	-	-	-
802.11ax HE20	2462	18.727	-	-	-
802.11ax HE40	2422	37.435	-	-	-
802.11ax HE40	2437	37.496	-	-	-
802.11ax HE40	2452	37.463	-	-	-

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	Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	-5.50	-	-	-	8.00	-	-	-
802.11b	2437	-5.68	-	-	-	8.00	-	-	-
802.11b	2462	-5.48	-	-	-	8.00	-	-	-
802.11g	2412	-7.97	-	-	-	8.00	-	-	-
802.11g	2437	-8.37	-	-	-	8.00	-	-	-
802.11g	2462	-8.48	-	-	-	8.00	-	-	-
802.11ax HE20	2412	-8.16	-	-	-	8.00	-	-	-
802.11ax HE20	2437	-8.27	-	-	-	8.00	-	-	-
802.11ax HE20	2462	-8.04	-	-	-	8.00	-	-	-
802.11ax HE40	2422	-11.16	-	-	-	8.00	-	-	-
802.11ax HE40	2437	-10.93	-	-	-	8.00	-	-	-
802.11ax HE40	2452	-10.57	-	-	-	8.00	-	-	-