

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	0.672	0.678	99.115	0.039	0.010
802.11g	2412	1.979	1.992	99.347	0.028	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
802.11n VHT20	2412	10.000	10.000	100.000	0.000	0.010
802.11n VHT40	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					
Mod.	CH	Freq. (MHz)	RF power setting in Test SW		Test SW Version
			Ant-0	Ant-1	
802.11b	1	2412	24.00	24.00	PUTTY
802.11b	6	2437	26.00	26.00	
802.11b	11	2462	26.00	26.00	
802.11g	1	2412	32.00	32.00	
802.11g	6	2437	34.00	34.00	
802.11g	11	2462	28.00	28.00	
802.11n HT20	1	2412	27.00	27.00	
802.11n HT20	6	2437	34.00	34.00	
802.11n HT20	11	2462	26.00	26.00	
802.11n HT40	3	2422	24.00	24.00	
802.11n HT40	6	2437	36.00	36.00	
802.11n HT40	9	2452	23.00	23.00	
802.11n VHT20	1	2412	27.00	27.00	
802.11n VHT20	6	2437	34.00	34.00	
802.11n VHT20	11	2462	26.00	26.00	
802.11n VHT40	3	2422	24.00	24.00	
802.11n VHT40	6	2437	36.00	36.00	
802.11n VHT40	9	2452	23.00	23.00	
802.11ax HE20	1	2412	27.00	27.00	
802.11ax HE20	6	2437	34.00	34.00	
802.11ax HE20	11	2462	26.00	26.00	
802.11ax HE40	3	2422	24.00	24.00	
802.11ax HE40	6	2437	36.00	36.00	
802.11ax HE40	9	2452	23.00	23.00	

2.4 GHz Band Config			
Mod.	Channel	Freq. (MHz)	Data Rate
802.11b	1	2412	1M
802.11b	6	2437	1M
802.11b	11	2462	1M
802.11g	1	2412	6M
802.11g	6	2437	6M
802.11g	11	2462	6M
802.11n HT20	1	2412	13M
802.11n HT20	6	2437	13M
802.11n HT20	11	2462	13M
802.11n HT40	3	2422	27M
802.11n HT40	6	2437	27M
802.11n HT40	9	2452	27M
802.11n VHT20	1	2412	MCS0
802.11n VHT20	6	2437	MCS0
802.11n VHT20	11	2462	MCS0
802.11n VHT40	3	2422	MCS0
802.11n VHT40	6	2437	MCS0
802.11n VHT40	9	2452	MCS0
802.11ax HE20	1	2412	MCS0
802.11ax HE20	6	2437	MCS0
802.11ax HE20	11	2462	MCS0
802.11ax HE40	3	2422	MCS0
802.11ax HE40	6	2437	MCS0
802.11ax HE40	9	2452	MCS0

2.4 GHz Band																	
Mod.	CH	Freq. (MHz)	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	11.73	11.41	-	-	14.58	14.51	14.24	-	-	17.39	30.00	30.00	-	-	29.17
802.11b	6	2437	12.02	12.47	-	-	15.26	14.83	15.22	-	-	18.04	30.00	30.00	-	-	29.17
802.11b	11	2462	12.36	12.32	-	-	15.35	15.07	15.02	-	-	18.06	30.00	30.00	-	-	29.17
802.11g	1	2412	16.11	15.98	-	-	19.05	20.56	20.47	-	-	23.53	30.00	30.00	-	-	29.17
802.11g	6	2437	16.45	16.91	-	-	19.69	20.70	21.15	-	-	23.94	30.00	30.00	-	-	29.17
802.11g	11	2462	13.53	13.59	-	-	16.57	18.44	18.59	-	-	21.53	30.00	30.00	-	-	29.17
802.11n HT20	1	2412	12.88	12.82	-	-	15.86	18.36	18.19	-	-	21.29	30.00	30.00	-	-	29.17
802.11n HT20	6	2437	16.21	16.65	-	-	19.45	20.70	21.09	-	-	23.91	30.00	30.00	-	-	29.17
802.11n HT20	11	2462	12.09	12.08	-	-	15.10	17.56	17.52	-	-	20.55	30.00	30.00	-	-	29.17
802.11n HT40	3	2422	11.40	11.44	-	-	14.43	17.79	17.69	-	-	20.75	30.00	30.00	-	-	29.17
802.11n HT40	6	2437	17.64	17.71	-	-	20.69	22.02	22.10	-	-	25.07	30.00	30.00	-	-	29.17
802.11n HT40	9	2452	10.71	11.27	-	-	14.01	16.82	17.60	-	-	20.24	30.00	30.00	-	-	29.17
802.11n VHT20	1	2412	13.05	12.86	-	-	15.97	18.36	18.13	-	-	21.26	30.00	30.00	-	-	29.17
802.11n VHT20	6	2437	16.16	16.61	-	-	19.40	20.64	21.10	-	-	23.89	30.00	30.00	-	-	29.17
802.11n VHT20	11	2462	12.08	11.97	-	-	15.04	17.52	17.43	-	-	20.49	30.00	30.00	-	-	29.17
802.11n VHT40	3	2422	11.42	11.58	-	-	14.51	17.77	17.80	-	-	20.80	30.00	30.00	-	-	29.17
802.11n VHT40	6	2437	17.66	17.71	-	-	20.70	22.15	22.06	-	-	25.12	30.00	30.00	-	-	29.17
802.11n VHT40	9	2452	10.60	11.29	-	-	13.97	16.85	17.50	-	-	20.20	30.00	30.00	-	-	29.17
802.11ax HE20	1	2412	13.35	13.06	-	-	16.22	19.45	19.15	-	-	22.31	30.00	30.00	-	-	29.17
802.11ax HE20	6	2437	16.20	16.68	-	-	19.46	21.27	21.72	-	-	24.51	30.00	30.00	-	-	29.17
802.11ax HE20	11	2462	12.27	12.17	-	-	15.23	18.50	18.45	-	-	21.49	30.00	30.00	-	-	29.17
802.11ax HE40	3	2422	11.48	11.64	-	-	14.57	17.96	18.12	-	-	21.05	30.00	30.00	-	-	29.17
802.11ax HE40	6	2437	17.63	17.75	-	-	20.70	22.27	22.32	-	-	25.31	30.00	30.00	-	-	29.17
802.11ax HE40	9	2452	10.66	11.36	-	-	14.03	17.17	17.83	-	-	20.52	30.00	30.00	-	-	29.17

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	8103	8101	-	-	≥ 500
802.11b	2437	8084	8050	-	-	≥ 500
802.11b	2462	8103	8113	-	-	≥ 500
802.11g	2412	15110	15110	-	-	≥ 500
802.11g	2437	15120	15120	-	-	≥ 500
802.11g	2462	15110	15100	-	-	≥ 500
802.11ax HE20	2412	15110	15110	-	-	≥ 500
802.11ax HE20	2437	15120	15110	-	-	≥ 500
802.11ax HE20	2462	15120	15110	-	-	≥ 500
802.11ax HE40	2422	33800	33780	-	-	≥ 500
802.11ax HE40	2437	32520	31360	-	-	≥ 500
802.11ax HE40	2452	32570	31390	-	-	≥ 500

99 % Occupied BW					
Mod.	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.099	13.137	-	-
802.11b	2437	13.160	13.174	-	-
802.11b	2462	13.212	13.168	-	-
802.11g	2412	16.512	16.455	-	-
802.11g	2437	16.773	16.585	-	-
802.11g	2462	16.300	16.267	-	-
802.11ax HE20	2412	18.703	18.708	-	-
802.11ax HE20	2437	18.914	18.912	-	-
802.11ax HE20	2462	18.729	18.711	-	-
802.11ax HE40	2422	37.241	37.304	-	-
802.11ax HE40	2437	37.881	37.903	-	-
802.11ax HE40	2452	37.355	37.314	-	-

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	-10.11	-10.41	-	-	-7.25	8.00	8.00	-	-	7.17
802.11b	2437	-10.78	-10.00	-	-	-7.36	8.00	8.00	-	-	7.17
802.11b	2462	-10.05	-9.20	-	-	-6.59	8.00	8.00	-	-	7.17
802.11g	2412	-8.72	-9.75	-	-	-6.19	8.00	8.00	-	-	7.17
802.11g	2437	-8.95	-7.85	-	-	-5.35	8.00	8.00	-	-	7.17
802.11g	2462	-11.74	-11.53	-	-	-8.62	8.00	8.00	-	-	7.17
802.11ax HE20	2412	-11.45	-11.11	-	-	-8.27	8.00	8.00	-	-	7.17
802.11ax HE20	2437	-8.14	-7.56	-	-	-4.83	8.00	8.00	-	-	7.17
802.11ax HE20	2462	-12.47	-12.95	-	-	-9.69	8.00	8.00	-	-	7.17
802.11ax HE40	2422	-15.62	-16.40	-	-	-12.98	8.00	8.00	-	-	7.17
802.11ax HE40	2437	-10.13	-9.06	-	-	-6.55	8.00	8.00	-	-	7.17
802.11ax HE40	2452	-15.60	-16.09	-	-	-12.83	8.00	8.00	-	-	7.17