

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	10.000	10.000	100.000	0.000	0.010
802.11g	2412	10.000	10.000	100.000	0.000	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
802.11be EHT20	2412	10.000	10.000	100.000	0.000	0.010
802.11be EHT40	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	22.50	22.50	-	-	Qualcomm 6.00.00130.1
802.11b	6	2437	25.00	25.00	-	-	
802.11b	11	2462	24.00	24.00	-	-	
802.11g	1	2412	21.00	21.00	-	-	
802.11g	6	2437	21.00	21.00	-	-	
802.11g	11	2462	20.00	20.00	-	-	
802.11n HT20	1	2412	19.50	19.50	-	-	
802.11n HT20	6	2437	22.00	22.00	-	-	
802.11n HT20	11	2462	19.50	19.50	-	-	
802.11n HT40	3	2422	16.50	16.50	-	-	
802.11n HT40	6	2437	19.00	19.00	-	-	
802.11n HT40	9	2452	16.00	16.00	-	-	
802.11n VHT20	1	2412	19.50	19.50	-	-	
802.11n VHT20	6	2437	22.00	22.00	-	-	
802.11n VHT20	11	2462	19.50	19.50	-	-	
802.11n VHT40	3	2422	16.50	16.50	-	-	
802.11n VHT40	6	2437	19.00	19.00	-	-	
802.11n VHT40	9	2452	16.00	16.00	-	-	
802.11ax HE20	1	2412	19.50	19.50	-	-	
802.11ax HE20	6	2437	22.00	22.00	-	-	
802.11ax HE20	11	2462	19.50	19.50	-	-	
802.11ax HE40	3	2422	16.50	16.50	-	-	
802.11ax HE40	6	2437	19.00	19.00	-	-	
802.11ax HE40	9	2452	16.00	16.00	-	-	
802.11be EHT20	1	2412	19.50	19.50	-	-	
802.11be EHT20	6	2437	22.00	22.00	-	-	
802.11be EHT20	11	2462	19.50	19.50	-	-	
802.11be EHT40	3	2422	16.50	16.50	-	-	
802.11be EHT40	6	2437	19.00	19.00	-	-	
802.11be EHT40	9	2452	16.00	16.00	-	-	

2.4 GHz Band												
Mode	CH	Freq. (MHz)	Avg 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
802.11b	1	2412	20.83	20.05	-	-	23.47	30.00	30.00	-	-	30.00
802.11b	6	2437	22.88	22.20	-	-	25.56	30.00	30.00	-	-	30.00
802.11b	11	2462	22.03	21.36	-	-	24.72	30.00	30.00	-	-	30.00
802.11g	1	2412	19.04	18.31	-	-	21.70	30.00	30.00	-	-	30.00
802.11g	6	2437	19.12	18.32	-	-	21.75	30.00	30.00	-	-	30.00
802.11g	11	2462	18.42	17.73	-	-	21.10	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	17.30	17.26	-	-	20.29	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	20.04	19.39	-	-	22.74	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	17.99	17.27	-	-	20.66	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	16.18	14.40	-	-	18.39	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	17.49	16.62	-	-	20.09	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	14.81	14.23	-	-	17.54	30.00	30.00	-	-	30.00
802.11n VHT20	1	2412	17.36	17.30	-	-	20.34	30.00	30.00	-	-	30.00
802.11n VHT20	6	2437	20.12	19.43	-	-	22.80	30.00	30.00	-	-	30.00
802.11n VHT20	11	2462	18.15	17.37	-	-	20.79	30.00	30.00	-	-	30.00
802.11n VHT40	3	2422	16.22	14.44	-	-	18.43	30.00	30.00	-	-	30.00
802.11n VHT40	6	2437	17.50	16.72	-	-	20.14	30.00	30.00	-	-	30.00
802.11n VHT40	9	2452	15.01	14.04	-	-	17.56	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412	17.93	17.35	-	-	20.66	30.00	30.00	-	-	30.00
802.11ax HE20	6	2437	20.12	19.48	-	-	22.82	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	18.19	17.36	-	-	20.81	30.00	30.00	-	-	30.00
802.11ax HE40	3	2422	16.26	14.50	-	-	18.48	30.00	30.00	-	-	30.00
802.11ax HE40	6	2437	17.45	16.93	-	-	20.21	30.00	30.00	-	-	30.00
802.11ax HE40	9	2452	14.90	14.07	-	-	17.52	30.00	30.00	-	-	30.00
802.11be EHT20	1	2412	17.97	17.37	-	-	20.69	30.00	30.00	-	-	30.00
802.11be EHT20	6	2437	20.13	19.63	-	-	22.90	30.00	30.00	-	-	30.00
802.11be EHT20	11	2462	18.17	17.41	-	-	20.82	30.00	30.00	-	-	30.00
802.11be EHT40	3	2422	16.32	14.56	-	-	18.54	30.00	30.00	-	-	30.00
802.11be EHT40	6	2437	17.59	16.93	-	-	20.28	30.00	30.00	-	-	30.00
802.11be EHT40	9	2452	14.96	14.17	-	-	17.59	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	7117	9078	-	-	≥ 500
802.11b	2437	7817	4581	-	-	≥ 500
802.11b	2462	7076	8576	-	-	≥ 500
802.11g	2412	15160	12630	-	-	≥ 500
802.11g	2437	15160	11410	-	-	≥ 500
802.11g	2462	15150	11400	-	-	≥ 500
802.11be EHT20	2412	15110	17800	-	-	≥ 500
802.11be EHT20	2437	15080	16170	-	-	≥ 500
802.11be EHT20	2462	16300	11400	-	-	≥ 500
802.11be EHT40	2422	35140	33930	-	-	≥ 500
802.11be EHT40	2437	36430	35110	-	-	≥ 500
802.11be EHT40	2452	35950	35140	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.395	12.853	-	-
802.11b	2437	13.043	13.953	-	-
802.11b	2462	13.449	12.834	-	-
802.11g	2412	16.865	17.072	-	-
802.11g	2437	16.836	17.072	-	-
802.11g	2462	16.862	17.016	-	-
802.11be EHT20	2412	18.878	19.276	-	-
802.11be EHT20	2437	18.877	19.271	-	-
802.11be EHT20	2462	19.061	18.704	-	-
802.11be EHT40	2422	38.057	38.329	-	-
802.11be EHT40	2437	38.216	37.793	-	-
802.11be EHT40	2452	38.154	37.786	-	-

2.4 GHz Band (Beamforming on)							
Mode	CH	Freq. (MHz)	RF power setting in Test SW				Test SW Version
			Ant-0	Ant-1	Ant-2	Ant-3	
802.11n HT20	1	2412	19.00	19.00	-	-	Qualcomm 6.00.00130.1
802.11n HT20	6	2437	22.00	22.00	-	-	
802.11n HT20	11	2462	22.00	22.00	-	-	
802.11n HT40	3	2422	17.00	19.00	-	-	
802.11n HT40	6	2437	19.00	19.00	-	-	
802.11n HT40	9	2452	16.00	16.00	-	-	
802.11n VHT20	1	2412	19.00	19.00	-	-	
802.11n VHT20	6	2437	22.00	22.00	-	-	
802.11n VHT20	11	2462	19.00	19.00	-	-	
802.11n VHT40	3	2422	17.00	19.00	-	-	
802.11n VHT40	6	2437	19.00	19.00	-	-	
802.11n VHT40	9	2452	16.00	16.00	-	-	
802.11ax HE20	1	2412	19.00	19.00	-	-	
802.11ax HE20	6	2437	22.00	22.00	-	-	
802.11ax HE20	11	2462	19.00	19.00	-	-	
802.11ax HE40	3	2422	17.00	19.00	-	-	
802.11ax HE40	6	2437	19.00	19.00	-	-	
802.11ax HE40	9	2452	16.00	16.00	-	-	
802.11be EHT20	1	2412	19.00	19.00	-	-	
802.11be EHT20	6	2437	22.00	22.00	-	-	
802.11be EHT20	11	2462	19.00	19.00	-	-	
802.11be EHT40	3	2422	17.00	19.00	-	-	
802.11be EHT40	6	2437	19.00	19.00	-	-	
802.11be EHT40	9	2452	16.00	16.00	-	-	

2.4 GHz Band (Beamforming on)												
Mode	CH	Freq. (MHz)	Avg 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
802.11n HT20	1	2412	16.83	17.01	-	-	19.93	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	19.58	19.29	-	-	22.45	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	17.72	17.01	-	-	20.39	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	15.03	14.09	-	-	17.60	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	17.09	16.38	-	-	19.76	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	14.40	13.90	-	-	17.17	30.00	30.00	-	-	30.00
802.11n VHT20	1	2412	16.93	16.96	-	-	19.96	30.00	30.00	-	-	30.00
802.11n VHT20	6	2437	19.77	19.32	-	-	22.56	30.00	30.00	-	-	30.00
802.11n VHT20	11	2462	17.76	16.98	-	-	20.40	30.00	30.00	-	-	30.00
802.11n VHT40	3	2422	15.16	14.06	-	-	17.66	30.00	30.00	-	-	30.00
802.11n VHT40	6	2437	17.00	16.60	-	-	19.81	30.00	30.00	-	-	30.00
802.11n VHT40	9	2452	14.58	13.72	-	-	17.18	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412	17.76	17.10	-	-	20.45	30.00	30.00	-	-	30.00
802.11ax HE20	6	2437	19.63	19.23	-	-	22.44	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	17.97	17.04	-	-	20.54	30.00	30.00	-	-	30.00
802.11ax HE40	3	2422	15.22	14.45	-	-	17.86	30.00	30.00	-	-	30.00
802.11ax HE40	6	2437	16.98	16.54	-	-	19.78	30.00	30.00	-	-	30.00
802.11ax HE40	9	2452	14.63	13.93	-	-	17.30	30.00	30.00	-	-	30.00
802.11be EHT20	1	2412	17.81	17.15	-	-	20.50	30.00	30.00	-	-	30.00
802.11be EHT20	6	2437	19.87	19.42	-	-	22.66	30.00	30.00	-	-	30.00
802.11be EHT20	11	2462	17.70	17.17	-	-	20.45	30.00	30.00	-	-	30.00
802.11be EHT40	3	2422	15.13	14.41	-	-	17.80	30.00	30.00	-	-	30.00
802.11be EHT40	6	2437	17.49	16.44	-	-	20.01	30.00	30.00	-	-	30.00
802.11be EHT40	9	2452	14.61	13.92	-	-	17.29	30.00	30.00	-	-	30.00