

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	21.00	21.00	-	-	Qualcomm 6.00.00130.1
802.11b	6	2437	24.00	24.00	-	-	
802.11b	11	2462	24.00	24.00	-	-	
802.11g	1	2412	20.00	20.00	-	-	
802.11g	6	2437	20.00	20.00	-	-	
802.11g	11	2462	19.50	19.50	-	-	
802.11n HT20	1	2412	18.50	18.50	-	-	
802.11n HT20	6	2437	21.50	21.50	-	-	
802.11n HT20	11	2462	19.00	19.00	-	-	
802.11n HT40	3	2422	18.50	18.50	-	-	
802.11n HT40	6	2437	17.50	17.50	-	-	
802.11n HT40	9	2452	15.00	15.00	-	-	
802.11n VHT20	1	2412	18.50	18.50	-	-	
802.11n VHT20	6	2437	21.50	21.50	-	-	
802.11n VHT20	11	2462	19.00	19.00	-	-	
802.11n VHT40	3	2422	18.50	18.50	-	-	
802.11n VHT40	6	2437	18.00	18.00	-	-	
802.11n VHT40	9	2452	15.50	15.50	-	-	
802.11ax HE20	1	2412	19.00	19.00	-	-	
802.11ax HE20	6	2437	21.50	21.50	-	-	
802.11ax HE20	11	2462	19.50	19.50	-	-	
802.11ax HE40	3	2422	18.50	18.50	-	-	
802.11ax HE40	6	2437	18.00	18.00	-	-	
802.11ax HE40	9	2452	15.50	15.50	-	-	
802.11be EHT20	1	2412	19.00	19.00	-	-	
802.11be EHT20	6	2437	21.50	21.50	-	-	
802.11be EHT20	11	2462	19.50	19.50	-	-	
802.11be EHT40	3	2422	18.50	18.50	-	-	
802.11be EHT40	6	2437	18.00	18.00	-	-	
802.11be EHT40	9	2452	15.50	15.50	-	-	

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	17.47	16.71	-	-	20.12	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	17.55	16.80	-	-	20.20	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	17.50	16.80	-	-	20.17	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	17.54	16.83	-	-	20.21	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	8639	5555	-	-	≥ 500
802.11b	2437	11051	12048	-	-	≥ 500
802.11b	2462	11103	10096	-	-	≥ 500
802.11g	2412	15090	15150	-	-	≥ 500
802.11g	2437	15150	15740	-	-	≥ 500
802.11g	2462	15170	15120	-	-	≥ 500
802.11be EHT20	2412	16420	15050	-	-	≥ 500
802.11be EHT20	2437	16320	15080	-	-	≥ 500
802.11be EHT20	2462	13830	16070	-	-	≥ 500
802.11be EHT40	2422	36540	35150	-	-	≥ 500
802.11be EHT40	2437	35130	33470	-	-	≥ 500
802.11be EHT40	2452	36460	35130	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.057	14.065	-	-
802.11b	2437	24.889	30.074	-	-
802.11b	2462	26.681	29.137	-	-
802.11g	2412	17.127	16.914	-	-
802.11g	2437	33.451	34.310	-	-
802.11g	2462	17.616	22.141	-	-
802.11be EHT20	2412	19.167	18.756	-	-
802.11be EHT20	2437	25.053	28.219	-	-
802.11be EHT20	2462	18.865	21.618	-	-
802.11be EHT40	2422	38.286	37.749	-	-
802.11be EHT40	2437	38.650	49.521	-	-
802.11be EHT40	2452	38.309	37.666	-	-

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	19.00	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	19.00	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	19.00	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	19.00	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	17.29	16.23	-	-	19.80	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	17.31	16.31	-	-	19.85	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	17.32	16.63	-	-	20.00	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	17.27	16.66	-	-	19.99	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