

Appendix C: Maximum power spectral density**Test Result**

5150 – 5250 MHz

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.73	<=10.6	PASS
	Ant2	5180	3.61	<=10.6	PASS
	total	5180	8.45	<=10.6	PASS
	Ant1	5200	7.01	<=10.6	PASS
	Ant2	5200	4.29	<=10.6	PASS
	total	5200	8.87	<=10.6	PASS
	Ant1	5240	6.74	<=10.6	PASS
	Ant2	5240	4.43	<=10.6	PASS
	total	5240	8.74	<=10.6	PASS
11N20MIMO	Ant1	5180	6.57	<=10.6	PASS
	Ant2	5180	3.57	<=10.6	PASS
	total	5180	8.33	<=10.6	PASS
	Ant1	5200	6.01	<=10.6	PASS
	Ant2	5200	3.28	<=10.6	PASS
	total	5200	7.86	<=10.6	PASS
	Ant1	5240	5.73	<=10.6	PASS
	Ant2	5240	3.01	<=10.6	PASS
	total	5240	6.75	<=10.6	PASS
11N40MIMO	Ant1	5190	1.75	<=10.6	PASS
	Ant2	5190	-0.33	<=10.6	PASS
	total	5190	3.84	<=10.6	PASS
	Ant1	5230	2.28	<=10.6	PASS
	Ant2	5230	0.1	<=10.6	PASS
11AC20MIMO	total	5230	4.34	<=10.6	PASS
	Ant1	5180	4.98	<=10.6	PASS
	Ant2	5180	2.99	<=10.6	PASS
	total	5180	7.11	<=10.6	PASS
	Ant1	5200	5.3	<=10.6	PASS
	Ant2	5200	3.8	<=10.6	PASS
	total	5200	7.62	<=10.6	PASS
	Ant1	5240	5.23	<=10.6	PASS
	Ant2	5240	4.37	<=10.6	PASS
total	5240	7.83	<=10.6	PASS	
11AC40MIMO	Ant1	5190	1.4	<=10.6	PASS
	Ant2	5190	-0.15	<=10.6	PASS
	total	5190	3.70	<=10.6	PASS
	Ant1	5230	2.09	<=10.6	PASS
	Ant2	5230	1.15	<=10.6	PASS
	total	5230	4.66	<=10.6	PASS
11AC80MIMO	Ant1	5210	1.25	<=10.6	PASS
	Ant2	5210	-1.65	<=10.6	PASS
	total	5210	3.05	<=10.6	PASS

Note 1: The Duty Cycle Factor is compensated in the graph.

Note 2: The maximum antenna gain is 3.39 dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices

Array Gain = $10 \log(N_{ANT}/N_{ss})$ dB

So: Directional gain = $G_{ANT} + \text{Array Gain} = 3.39 + 10 \log(2/1) = 6.40$ dBi

5725 – 5850 MHz

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	3.27	<=28.68	PASS
	Ant2	5745	1.13	<=28.68	PASS
	total	5745	5.34	<=28.68	PASS
	Ant1	5785	1.3	<=28.68	PASS
	Ant2	5785	0.4	<=28.68	PASS
	total	5785	3.87	<=28.68	PASS
	Ant1	5825	0.99	<=28.68	PASS
	Ant2	5825	0.85	<=28.68	PASS
	total	5825	3.93	<=28.68	PASS
11N20MIMO	Ant1	5745	3.38	<=28.68	PASS
	Ant2	5745	1.71	<=28.68	PASS
	total	5745	5.63	<=28.68	PASS
	Ant1	5785	2.2	<=28.68	PASS
	Ant2	5785	1.45	<=28.68	PASS
	total	5785	4.85	<=28.68	PASS
	Ant1	5825	3.38	<=28.68	PASS
	Ant2	5825	2.59	<=28.68	PASS
	total	5825	6.01	<=28.68	PASS
11N40MIMO	Ant1	5755	0.91	<=28.68	PASS
	Ant2	5755	-0.34	<=28.68	PASS
	total	5755	3.34	<=28.68	PASS
	Ant1	5795	0.45	<=28.68	PASS
	Ant2	5795	-0.01	<=28.68	PASS
	total	5795	3.24	<=28.68	PASS
11AC20MIMO	Ant1	5745	4.51	<=28.68	PASS
	Ant2	5745	3.45	<=28.68	PASS
	total	5745	7.02	<=28.68	PASS
	Ant1	5785	3.7	<=28.68	PASS
	Ant2	5785	2.97	<=28.68	PASS
	total	5785	6.36	<=28.68	PASS
	Ant1	5825	2.8	<=28.68	PASS
	Ant2	5825	3.17	<=28.68	PASS
	total	5825	6.0	<=28.68	PASS
11AC40MIMO	Ant1	5755	0.91	<=28.68	PASS
	Ant2	5755	0.25	<=28.68	PASS
	total	5755	3.60	<=28.68	PASS
	Ant1	5795	0.63	<=28.68	PASS
	Ant2	5795	-0.21	<=28.68	PASS
	total	5795	3.24	<=28.68	PASS
11AC80MIMO	Ant1	5775	-0.67	<=28.68	PASS
	Ant2	5775	-2.69	<=28.68	PASS
	total	5775	1.45	<=28.68	PASS

Note 1: The Duty Cycle Factor is compensated in the graph.

Note 2: The maximum antenna gain is 4.31dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices.

Array Gain = $10 \log(N_{ANT}/N_{ss})$ dB

So: Directional gain = $G_{ANT} + \text{Array Gain} = 4.31 + 10 * \log(2/1) = 7.32$ dBi

Test Graphs























































