







































4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)				Limits (dBm/MHz)		Verdict
			Ant 1	Ant 2	Ant 3	Total	SISO	MIMO	
802.11a	5180	SISO	5.85	5.88	7.56	/	≤17	/	PASS
	5200	SISO	5.67	6.25	5.89	/	≤17	/	PASS
	5240	SISO	5.76	6.70	6.67	/	≤17	/	PASS
	5260	SISO	5.78	7.31	5.57	/	≤11	/	PASS
	5300	SISO	5.35	6.83	6.04	/	≤11	/	PASS
	5320	SISO	5.15	6.97	7.37	/	≤11	/	PASS
	5500	SISO	4.27	5.43	6.74	/	≤11	/	PASS
	5580	SISO	7.27	6.53	8.64	/	≤11	/	PASS
	5600	SISO	6.75	6.90	7.97	/	≤11	/	PASS
	5700	SISO	10.16	8.17	9.34	/	≤11	/	PASS
802.11n(HT20)	5180	MIMO	2.57	3.62	1.71	7.24	≤17	≤13.63	PASS
	5200	MIMO	3.16	3.66	1.52	7.43	≤17	≤13.63	PASS
	5240	MIMO	3.29	2.93	1.65	7.22	≤17	≤13.63	PASS
	5260	MIMO	2.10	3.09	2.18	6.85	≤11	≤7.63	PASS
	5300	MIMO	2.78	2.62	2.30	6.95	≤11	≤7.63	PASS
	5320	MIMO	3.49	2.10	2.09	7.12	≤11	≤7.63	PASS
	5500	MIMO	1.80	3.25	1.93	6.80	≤11	≤7.63	PASS
	5580	MIMO	1.65	2.17	4.23	7.32	≤11	≤7.63	PASS
	5600	MIMO	2.60	2.36	3.01	7.05	≤11	≤7.63	PASS
	5700	MIMO	2.03	2.67	4.05	7.37	≤11	≤7.63	PASS
802.11n(HT40)	5190	MIMO	0.53	1.27	-1.14	4.70	≤17	≤13.63	PASS
	5230	MIMO	0.35	0.82	-1.40	4.18	≤17	≤13.63	PASS
	5270	MIMO	0.94	1.44	0.35	5.31	≤11	≤7.63	PASS
	5310	MIMO	3.34	1.32	1.13	6.66	≤11	≤7.63	PASS
	5510	MIMO	1.75	1.11	1.28	5.95	≤11	≤7.63	PASS
	5550	MIMO	0.20	1.51	1.91	5.71	≤11	≤7.63	PASS
	5590	MIMO	0.84	1.37	0.98	5.26	≤11	≤7.63	PASS
	5670	MIMO	0.00	2.63	3.58	7.04	≤11	≤7.63	PASS
802.11ac(VHT20)	5180	MIMO	3.81	2.21	3.20	7.47	≤17	≤13.63	PASS
	5200	MIMO	3.66	3.32	2.49	7.28	≤17	≤13.63	PASS
	5240	MIMO	3.85	3.02	2.04	7.64	≤17	≤13.63	PASS
	5260	MIMO	2.48	2.06	2.39	6.84	≤11	≤7.63	PASS
	5300	MIMO	1.59	3.82	2.72	7.31	≤11	≤7.63	PASS
	5320	MIMO	1.33	3.48	3.93	7.58	≤11	≤7.63	PASS
	5500	MIMO	1.09	-0.51	5.77	7.53	≤11	≤7.63	PASS



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	5580	MIMO	1.94	0.34	4.22	6.92	≤11	≤7.63	PASS
	5600	MIMO	1.88	0.92	4.01	6.92	≤11	≤7.63	PASS
	5700	MIMO	2.86	0.62	4.28	7.48	≤11	≤7.63	PASS
802.11ac(VHT40)	5190	MIMO	2.12	1.76	0.95	5.86	≤17	≤13.63	PASS
	5230	MIMO	2.51	2.14	1.61	6.25	≤17	≤13.63	PASS
	5270	MIMO	1.38	1.63	0.37	5.68	≤11	≤7.63	PASS
	5310	MIMO	2.98	2.01	1.62	6.58	≤11	≤7.63	PASS
	5510	MIMO	3.72	1.38	-1.29	6.15	≤11	≤7.63	PASS
	5550	MIMO	4.35	0.95	0.12	6.84	≤11	≤7.63	PASS
	5590	MIMO	4.03	2.07	1.45	7.05	≤11	≤7.63	PASS
	5670	MIMO	1.58	2.06	2.18	6.26	≤11	≤7.63	PASS
802.11ac(VHT80)	5210	MIMO	2.85	1.42	0.55	6.23	≤17	≤13.63	PASS
	5290	MIMO	0.74	-1.30	-1.42	3.55	≤11	≤7.63	PASS
	5530	MIMO	1.43	-1.25	-2.01	4.01	≤11	≤7.63	PASS
	5610	MIMO	2.30	-0.36	-0.19	4.88	≤11	≤7.63	PASS

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)				Limits (dBm/500kHz)		Verdict
			Ant 3	Ant 2	Ant 1	Total	SISO	MIMO	
802.11a	5745	SISO	7.83	7.42	9.83	/	≤30	/	PASS
	5785	SISO	7.80	6.94	9.22	/	≤30	/	PASS
	5825	SISO	6.97	6.76	8.11	/	≤30	/	PASS
802.11n(HT20)	5745	MIMO	4.31	3.57	6.33	9.27	≤30	≤26.63	PASS
	5785	MIMO	5.44	4.52	5.09	9.38	≤30	≤26.63	PASS
	5825	MIMO	5.52	5.22	7.36	10.60	≤30	≤26.63	PASS
802.11n(HT40)	5755	MIMO	5.21	6.51	8.41	11.27	≤30	≤26.63	PASS
	5795	MIMO	5.01	5.29	6.34	10.34	≤30	≤26.63	PASS
802.11ac(VHT20)	5745	MIMO	8.13	6.48	8.20	12.34	≤30	≤26.63	PASS
	5785	MIMO	5.58	6.07	8.64	11.40	≤30	≤26.63	PASS
	5825	MIMO	5.52	4.76	6.03	10.00	≤30	≤26.63	PASS
802.11ac(VHT40)	5755	MIMO	4.44	6.13	6.96	10.60	≤30	≤26.63	PASS
	5795	MIMO	3.45	5.81	6.22	9.14	≤30	≤26.63	PASS
802.11ac(VHT80)	5775	MIMO	2.52	3.52	6.43	9.19	≤30	≤26.63	PASS

Note: Since the number of transmit antennas is less than 4, Array gain=10*log3= 4.77dB.

Directional gain =Antenna Gain+ Array gain=4.6+4.77=9.37dBi.



4.2 Test Graph

























































