

Report Number : FR672014-01C

Test Engineer:	Bill Kuo	Temperature:	21~25	°C
Test Date:	2016/07/05~2016/07/28	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	12.30	12.05	9.08	9.08	0.50	Pass
11b	1Mbps	1	6	2437	12.05	12.05	9.04	9.08	0.50	Pass
11b	1Mbps	1	11	2462	11.95	12.05	8.56	9.08	0.50	Pass
11g	6Mbps	1	1	2412	18.70	18.30	16.40	16.36	0.50	Pass
11g	6Mbps	1	6	2437	18.95	18.60	16.40	16.36	0.50	Pass
11g	6Mbps	1	11	2462	18.50	18.45	16.16	16.40	0.50	Pass
11b	1Mbps	2	1	2412	11.90	11.90	9.00	8.54	0.50	Pass
11b	1Mbps	2	6	2437	11.85	11.85	9.02	9.04	0.50	Pass
11b	1Mbps	2	11	2462	11.90	11.90	8.54	9.02	0.50	Pass
11g	6Mbps	2	1	2412	18.25	17.80	16.36	16.30	0.50	Pass
11g	6Mbps	2	6	2437	18.70	18.15	16.34	16.28	0.50	Pass
11g	6Mbps	2	11	2462	18.85	18.05	16.04	16.32	0.50	Pass
HT20	MCS0	2	1	2412	19.35	18.95	17.32	17.60	0.50	Pass
HT20	MCS0	2	6	2437	19.75	19.25	17.64	17.64	0.50	Pass
HT20	MCS0	2	11	2462	19.10	19.05	17.20	17.64	0.50	Pass
HT40	MCS0	2	3	2422	36.70	36.60	35.76	36.40	0.50	Pass
HT40	MCS0	2	6	2437	36.80	36.80	36.40	36.40	0.50	Pass
HT40	MCS0	2	9	2452	36.40	36.60	35.68	36.36	0.50	Pass
VHT20	MCS0	2	1	2412	19.25	18.95	17.32	17.62	0.50	Pass
VHT20	MCS0	2	6	2437	19.75	19.20	17.64	17.64	0.50	Pass
VHT20	MCS0	2	11	2462	19.15	18.95	17.20	17.64	0.50	Pass
VHT40	MCS0	2	3	2422	36.60	36.70	35.80	36.40	0.50	Pass
VHT40	MCS0	2	6	2437	36.90	36.70	36.40	36.40	0.50	Pass
VHT40	MCS0	2	9	2452	36.50	36.70	35.52	36.40	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2
11b	1Mbps	1	1	2412	21.31	21.94		2.50	1.79	23.81	23.73
11b	1Mbps	1	2	2417	21.33	21.95		2.50	1.79	23.83	23.74
11b	1Mbps	1	6	2437	21.73	22.06		2.50	1.79	24.23	23.85
11b	1Mbps	1	10	2457	21.75	22.10		2.50	1.79	24.25	23.89
11b	1Mbps	1	11	2462	22.08	21.83		2.50	1.79	24.58	23.62
11g	6Mbps	1	1	2412	21.79	21.49		2.50	1.79	24.29	23.28
11g	6Mbps	1	2	2417	22.75	23.48		2.50	1.79	25.25	25.27
11g	6Mbps	1	6	2437	23.20	23.68		2.50	1.79	25.70	25.47
11g	6Mbps	1	10	2457	23.11	23.70		2.50	1.79	25.61	25.49
11g	6Mbps	1	11	2462	23.09	22.99		2.50	1.79	25.59	24.78
HT20	MCS0	1	1	2412	19.92	20.46		2.50	1.79	22.42	22.25
HT20	MCS0	1	2	2417	23.22	23.41		2.50	1.79	25.72	25.2
HT20	MCS0	1	6	2437	23.36	23.90		2.50	1.79	25.86	25.69
HT20	MCS0	1	10	2457	22.69	23.06		2.50	1.79	25.19	24.85
HT20	MCS0	1	11	2462	21.99	21.79		2.50	1.79	24.49	23.58
HT40	MCS0	1	3	2422	19.21	19.03		2.50	1.79	21.71	20.82
HT40	MCS0	1	4	2427	18.55	19.09		2.50	1.79	21.05	20.88
HT40	MCS0	1	6	2437	21.49	21.89		2.50	1.79	23.99	23.68
HT40	MCS0	1	8	2447	21.35	21.17		2.50	1.79	23.85	22.96
HT40	MCS0	1	9	2452	21.39	21.21		2.50	1.79	23.89	23.00
VHT20	MCS0	1	1	2412	20.02	20.39		2.50	1.79	22.52	22.18
VHT20	MCS0	1	2	2417	23.25	23.50		2.50	1.79	25.75	25.29
VHT20	MCS0	1	6	2437	23.36	23.60		2.50	1.79	25.86	25.39
VHT20	MCS0	1	10	2457	22.69	22.99		2.50	1.79	25.19	24.78
VHT20	MCS0	1	11	2462	22.02	22.02		2.50	1.79	24.52	23.81
VHT40	MCS0	1	3	2422	19.40	19.39		2.50	1.79	21.90	21.18
VHT40	MCS0	1	4	2427	18.42	18.99		2.50	1.79	23.83	23.74
VHT40	MCS0	1	6	2437	21.26	21.82		2.50	1.79	23.76	23.61
VHT40	MCS0	1	8	2447	21.49	21.49		2.50	1.79	23.99	23.28
VHT40	MCS0	1	9	2452	21.24	21.29		2.50	1.79	23.74	23.08

11b	1Mbps	2	1	2412	21.38	22.30	24.87	2.50	27.37
11b	1Mbps	2	2	2417	21.24	22.25	24.78	2.50	
11b	1Mbps	2	6	2437	21.53	22.10	24.83	2.50	27.33
11b	1Mbps	2	10	2457	21.48	22.11	24.82	2.50	
11b	1Mbps	2	11	2462	21.80	21.87	24.85	2.50	27.35
11g	6Mbps	2	1	2412	20.52	20.79	23.67	2.50	26.17
11g	6Mbps	2	2	2417	22.79	23.40	26.12	2.50	
11g	6Mbps	2	6	2437	22.93	23.46	26.21	2.50	28.71
11g	6Mbps	2	10	2457	22.55	23.19	25.89	2.50	
11g	6Mbps	2	11	2462	22.19	22.69	25.46	2.50	27.96
HT20	MCS0	2	1	2412	20.02	20.35	23.20	2.50	25.70
HT20	MCS0	2	2	2417	22.94	23.42	26.20	2.50	
HT20	MCS0	2	6	2437	22.91	23.65	26.31	2.50	28.81
HT20	MCS0	2	10	2457	22.49	22.99	25.76	2.50	
HT20	MCS0	2	11	2462	21.99	22.05	25.03	2.50	27.53
HT40	MCS0	2	3	2422	18.89	19.25	22.08	2.50	24.58
HT40	MCS0	2	4	2427	19.02	19.49	22.27	2.50	
HT40	MCS0	2	6	2437	21.85	21.99	24.93	2.50	27.43
HT40	MCS0	2	8	2447	21.23	21.29	24.27	2.50	
HT40	MCS0	2	9	2452	21.65	21.55	24.61	2.50	27.11
VHT20	MCS0	2	1	2412	19.99	20.55	23.29	2.50	25.79
VHT20	MCS0	2	2	2417	22.81	23.42	26.14	2.50	
VHT20	MCS0	2	6	2437	22.73	23.56	26.18	2.50	28.68
VHT20	MCS0	2	10	2457	22.55	22.88	25.73	2.50	
VHT20	MCS0	2	11	2462	21.89	22.15	25.03	2.50	27.53
VHT40	MCS0	2	3	2422	19.49	19.38	22.45	2.50	24.95
VHT40	MCS0	2	4	2427	19.15	19.21	22.19	2.50	
VHT40	MCS0	2	6	2437	21.49	22.21	24.88	2.50	27.38
VHT40	MCS0	2	8	2447	21.19	21.62	24.42	2.50	
VHT40	MCS0	2	9	2452	21.42	21.79	24.62	2.50	27.12

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band																		
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	0.06	0.06	18.48	18.96		30.00	30.00	2.50	1.79	20.98	20.75	36.00	36.00	Pass
11b	1Mbps	1	2	2417	0.06	0.06	18.58	18.94		30.00	30.00	2.50	1.79	21.08	20.73	36.00	36.00	Pass
11b	1Mbps	1	6	2437	0.06	0.06	18.73	18.98		30.00	30.00	2.50	1.79	21.23	20.77	36.00	36.00	Pass
11b	1Mbps	1	10	2457	0.06	0.06	18.72	18.89		30.00	30.00	2.50	1.79	21.22	20.68	36.00	36.00	Pass
11b	1Mbps	1	11	2462	0.06	0.06	18.78	18.67		30.00	30.00	2.50	1.79	21.28	20.46	36.00	36.00	Pass
11g	6Mbps	1	1	2412	0.32	0.32	15.77	15.34		30.00	30.00	2.50	1.79	18.27	17.13	36.00	36.00	Pass
11g	6Mbps	1	2	2417	0.32	0.32	17.42	17.82		30.00	30.00	2.50	1.79	19.92	19.61	36.00	36.00	Pass
11g	6Mbps	1	6	2437	0.32	0.32	17.76	17.94		30.00	30.00	2.50	1.79	20.26	19.73	36.00	36.00	Pass
11g	6Mbps	1	10	2457	0.32	0.32	17.54	17.91		30.00	30.00	2.50	1.79	20.04	19.70	36.00	36.00	Pass
11g	6Mbps	1	11	2462	0.32	0.32	17.75	16.71		30.00	30.00	2.50	1.79	20.25	18.50	36.00	36.00	Pass
HT20	MCS0	1	1	2412	0.34	0.34	12.80	13.19		30.00	30.00	2.50	1.79	15.30	14.98	36.00	36.00	Pass
HT20	MCS0	1	2	2417	0.34	0.34	17.52	17.58		30.00	30.00	2.50	1.79	20.02	19.37	36.00	36.00	Pass
HT20	MCS0	1	6	2437	0.34	0.34	17.54	17.59		30.00	30.00	2.50	1.79	20.04	19.38	36.00	36.00	Pass
HT20	MCS0	1	10	2457	0.31	0.34	16.23	16.29		30.00	30.00	2.50	1.79	18.73	18.08	36.00	36.00	Pass
HT20	MCS0	1	11	2462	0.34	0.34	15.08	14.89		30.00	30.00	2.50	1.79	17.58	16.68	36.00	36.00	Pass
HT40	MCS0	1	3	2422	0.11	0.11	11.10	11.42		30.00	30.00	2.50	1.79	13.60	13.21	36.00	36.00	Pass
HT40	MCS0	1	4	2427	0.11	0.11	10.93	11.43		30.00	30.00	2.50	1.79	13.43	13.22	36.00	36.00	Pass
HT40	MCS0	1	6	2437	0.11	0.11	14.50	14.73		30.00	30.00	2.50	1.79	17.00	16.52	36.00	36.00	Pass
HT40	MCS0	1	8	2447	0.11	0.11	13.59	13.93		30.00	30.00	2.50	1.79	16.09	15.72	36.00	36.00	Pass
HT40	MCS0	1	9	2452	0.11	0.11	13.90	13.93		30.00	30.00	2.50	1.79	16.40	15.72	36.00	36.00	Pass
VHT20	MCS0	1	1	2412	0.31	0.34	12.90	13.62		30.00	30.00	2.50	1.79	15.40	15.41	36.00	36.00	Pass
VHT20	MCS0	1	2	2417	0.31	0.34	17.56	17.65		30.00	30.00	2.50	1.79	20.06	19.44	36.00	36.00	Pass
VHT20	MCS0	1	6	2437	0.31	0.34	17.58	17.71		30.00	30.00	2.50	1.79	20.08	19.50	36.00	36.00	Pass
VHT20	MCS0	1	10	2457	0.31	0.34	16.26	16.27		30.00	30.00	2.50	1.79	18.76	18.06	36.00	36.00	Pass
VHT20	MCS0	1	11	2462	0.31	0.34	15.07	15.16		30.00	30.00	2.50	1.79	17.57	16.95	36.00	36.00	Pass
VHT40	MCS0	1	3	2422	0.11	0.08	11.13	11.70		30.00	30.00	2.50	1.79	13.63	13.49	36.00	36.00	Pass
VHT40	MCS0	1	4	2427	0.11	0.08	10.66	11.37		30.00	30.00	2.50	1.79	13.16	13.16	36.00	36.00	Pass
VHT40	MCS0	1	6	2437	0.11	0.08	14.50	14.90		30.00	30.00	2.50	1.79	17.00	16.69	36.00	36.00	Pass
VHT40	MCS0	1	8	2447	0.11	0.08	13.80	14.19		30.00	30.00	2.50	1.79	16.30	15.98	36.00	36.00	Pass
VHT40	MCS0	1	9	2452	0.11	0.08	14.03	14.03		30.00	30.00	2.50	1.79	16.53	15.82	36.00	36.00	Pass
11b	1Mbps	2	1	2412	0.04	0.06	18.40	18.99	21.72	30.00		2.50		24.22		36.00		Pass
11b	1Mbps	2	2	2417	0.04	0.06	18.26	18.99	21.65	30.00		2.50		24.15		36.00		Pass
11b	1Mbps	2	6	2437	0.04	0.06	18.56	18.96	21.78	30.00		2.50		24.28		36.00		Pass
11b	1Mbps	2	10	2457	0.04	0.06	18.52	18.95	21.75	30.00		2.50		24.25		36.00		Pass
11b	1Mbps	2	11	2462	0.04	0.06	18.79	18.70	21.76	30.00		2.50		24.26		36.00		Pass
11g	6Mbps	2	1	2412	0.29	0.32	13.78	14.14	16.98	30.00		2.50		19.48		36.00		Pass
11g	6Mbps	2	2	2417	0.29	0.32	17.19	17.67	20.45	30.00		2.50		22.95		36.00		Pass
11g	6Mbps	2	6	2437	0.29	0.32	17.56	17.99	20.79	30.00		2.50		23.29		36.00		Pass
11g	6Mbps	2	10	2457	0.29	0.32	16.71	16.74	19.74	30.00		2.50		22.24		36.00		Pass
11g	6Mbps	2	11	2462	0.29	0.32	16.18	16.07	19.14	30.00		2.50		21.64		36.00		Pass
HT20	MCS0	2	1	2412	0.34	0.31	13.03	13.30	16.18	30.00		2.50		18.68		36.00		Pass
HT20	MCS0	2	2	2417	0.34	0.31	17.66	17.92	20.81	30.00		2.50		23.31		36.00		Pass
HT20	MCS0	2	6	2437	0.34	0.31	17.68	17.93	20.82	30.00		2.50		23.32		36.00		Pass
HT20	MCS0	2	10	2457	0.34	0.31	16.29	16.30	19.31	30.00		2.50		21.81		36.00		Pass
HT20	MCS0	2	11	2462	0.34	0.31	15.09	15.13	18.12	30.00		2.50		20.62		36.00		Pass
HT40	MCS0	2	3	2422	0.11	0.11	11.20	11.66	14.45	30.00		2.50		16.95		36.00		Pass
HT40	MCS0	2	4	2427	0.11	0.11	11.00	11.53	14.28	30.00		2.50		16.78		36.00		Pass
HT40	MCS0	2	6	2437	0.11	0.11	14.63	14.99	17.82	30.00		2.50		20.32		36.00		Pass
HT40	MCS0	2	8	2447	0.11	0.11	13.60	14.06	16.85	30.00		2.50		19.35		36.00		Pass
HT40	MCS0	2	9	2452	0.11	0.11	14.16	14.13	17.15	30.00		2.50		19.65		36.00		Pass
VHT20	MCS0	2	1	2412	0.34	0.34	13.06	13.63	16.36	30.00		2.50		18.86		36.00		Pass
VHT20	MCS0	2	2	2417	0.34	0.34	17.66	17.95	20.82	30.00		2.50		23.32		36.00		Pass
VHT20	MCS0	2	6	2437	0.34	0.34	17.64	17.99	20.83	30.00		2.50		23.33		36.00		Pass
VHT20	MCS0	2	10	2457	0.34	0.34	16.63	16.29	19.47	30.00		2.50		21.97		36.00		Pass
VHT20	MCS0	2	11	2462	0.34	0.34	15.09	15.23	18.17	30.00		2.50		20.67		36.00		Pass
VHT40	MCS0	2	3	2422	0.11	0.11	11.20	11.96	14.61	30.00		2.50		17.11		36.00		Pass
VHT40	MCS0	2	4	2427	0.11	0.11	11.10	11.80	14.47	30.00		2.50		16.97		36.00		Pass
VHT40	MCS0	2	6	2437	0.11	0.11	14.63	15.10	17.88	30.00		2.50		20.38		36.00		Pass
VHT40	MCS0	2	8	2447	0.11	0.11	13.86	14.20	17.04	30.00		2.50		19.54		36.00		Pass
VHT40	MCS0	2	9	2452	0.11	0.11	14.13	14.27	17.21	30.00		2.50		19.71		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Power Spectral Density

2.4GHz Band														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average PSD (dBm/3kHz)			DG (dBi)		Average PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	0.06	0.06	-7.55	-7.54	-	2.50	1.79	8.00	8.00	Pass
11b	1Mbps	1	6	2437	0.06	0.06	-7.55	-7.67		2.50	1.79	8.00	8.00	Pass
11b	1Mbps	1	11	2462	0.06	0.06	-7.42	-7.97		2.50	1.79	8.00	8.00	Pass
11g	6Mbps	1	1	2412	0.32	0.32	-10.53	-11.65		2.50	1.79	8.00	8.00	Pass
11g	6Mbps	1	6	2437	0.32	0.32	-9.11	-9.15		2.50	1.79	8.00	8.00	Pass
11g	6Mbps	1	11	2462	0.32	0.32	-8.72	-10.02		2.50	1.79	8.00	8.00	Pass
11b	1Mbps	2	1	2412	0.04	0.06	-7.46	-7.63	-4.45	5.16		8.00		Pass
11b	1Mbps	2	6	2437	0.04	0.06	-7.36	-8.02	-4.35	5.16		8.00		Pass
11b	1Mbps	2	11	2462	0.04	0.06	-7.51	-8.01	-4.50	5.16		8.00		Pass
11g	6Mbps	2	1	2412	0.29	0.32	-12.53	-11.86	-8.85	5.16		8.00		Pass
11g	6Mbps	2	6	2437	0.29	0.32	-8.92	-9.62	-5.91	5.16		8.00		Pass
11g	6Mbps	2	11	2462	0.29	0.32	-10.49	-10.83	-7.48	5.16		8.00		Pass
HT20	MCS0	2	1	2412	0.34	0.31	-15.41	-15.26	-12.25	5.16		8.00		Pass
HT20	MCS0	2	6	2437	0.34	0.31	-9.10	-9.49	-6.09	5.16		8.00		Pass
HT20	MCS0	2	11	2462	0.34	0.31	-11.58	-11.93	-8.57	5.16		8.00		Pass
HT40	MCS0	2	3	2422	0.11	0.11	-19.66	-19.82	-16.65	5.16		8.00		Pass
HT40	MCS0	2	6	2437	0.11	0.11	-16.54	-16.49	-13.48	5.16		8.00		Pass
HT40	MCS0	2	9	2452	0.11	0.11	-17.14	-17.19	-14.13	5.16		8.00		Pass
VHT20	MCS0	2	1	2412	0.34	0.34	-14.93	-15.13	-11.92	5.16		8.00		Pass
VHT20	MCS0	2	6	2437	0.34	0.34	-11.14	-11.03	-8.02	5.16		8.00		Pass
VHT20	MCS0	2	11	2462	0.34	0.34	-13.75	-13.54	-10.53	5.16		8.00		Pass
VHT40	MCS0	2	3	2422	0.11	0.11	-19.38	-19.21	-16.20	5.16		8.00		Pass
VHT40	MCS0	2	6	2437	0.11	0.11	-16.78	-15.71	-12.70	5.16		8.00		Pass
VHT40	MCS0	2	9	2452	0.11	0.11	-16.34	-16.84	-13.33	5.16		8.00		Pass

Measured power density (dBm) has offset with cable loss.