



Appendix A. Radiated Spurious Emission

Test Engineer :	Ken Wu, Jesse Wang, and James Chiu	Temperature :	21~24°C
		Relative Humidity :	50~54%

<Ant.1>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant. 1		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)	
802.11b CH 01 2412MHz		2382.135	53.89	-20.11	74	49.41	32.14	7.31	34.97	200	307	P	H	
		2389.8	44.01	-9.99	54	39.49	32.19	7.31	34.98	200	307	A	H	
	*	2412	99.82	-	-	95.25	32.24	7.31	34.98	200	307	P	H	
	*	2412	96.54	-	-	91.97	32.24	7.31	34.98	200	307	A	H	
													H	
														H
			2378.67	54.58	-19.42	74	50.17	32.14	7.24	34.97	242	144	P	V
			2388.225	43.94	-10.06	54	39.41	32.19	7.31	34.97	242	144	A	V
	*		2412	103.22	-	-	98.65	32.24	7.31	34.98	242	144	P	V
	*		2412	100.08	-	-	95.51	32.24	7.31	34.98	242	144	A	V
														V



802.11b CH 06 2437MHz		2330.44	54.69	-19.31	74	50.49	31.98	7.18	34.96	200	236	P	H
		2387.42	43.77	-10.23	54	39.24	32.19	7.31	34.97	200	236	A	H
	*	2437	98.68	-	-	93.97	32.34	7.36	34.99	200	236	P	H
	*	2437	95.6	-	-	90.89	32.34	7.36	34.99	200	236	A	H
		2486.35	54.92	-19.08	74	50.07	32.45	7.4	35	200	236	P	H
		2487.96	44.09	-9.91	54	39.19	32.5	7.4	35	200	236	A	H
		2337.72	54.46	-19.54	74	50.21	32.03	7.18	34.96	302	177	P	V
		2389.38	43.74	-10.26	54	39.21	32.19	7.31	34.97	302	177	A	V
	*	2437	101.67	-	-	96.96	32.34	7.36	34.99	302	177	P	V
	*	2437	98.55	-	-	93.84	32.34	7.36	34.99	302	177	A	V
		2484.11	55	-19	74	50.15	32.45	7.4	35	302	177	P	V
		2491.25	44.06	-9.94	54	39.16	32.5	7.4	35	302	177	A	V
	802.11b CH 11 2462MHz	*	2462	98.27	-	-	93.46	32.4	7.4	34.99	200	248	P
*		2462	95.52	-	-	90.71	32.4	7.4	34.99	200	248	A	H
		2498	54.8	-19.2	74	49.91	32.5	7.4	35.01	200	248	P	H
		2483.52	45.59	-8.41	54	40.74	32.45	7.4	35	200	248	A	H
													H
													H
*		2462	101.68	-	-	96.87	32.4	7.4	34.99	264	181	P	V
*		2462	98.95	-	-	94.14	32.4	7.4	34.99	264	181	A	V
		2496.12	55.36	-18.64	74	50.47	32.5	7.4	35.01	264	181	P	V
		2483.52	48.08	-5.92	54	43.23	32.45	7.4	35	264	181	A	V
													V
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	44.49	-29.51	74	58.21	33.64	11.68	59.04	100	0	P	H
													H
													H
													H
		4824	43.23	-30.77	74	56.95	33.64	11.68	59.04	100	0	P	V
													V
													V
802.11b CH 06 2437MHz		4874	45.87	-28.13	74	59.74	33.54	11.53	58.94	100	0	P	H
		7311	39.38	-34.62	74	48.81	34.69	13.81	57.93	100	0	P	H
													H
													H
		4874	43.49	-30.51	74	57.36	33.54	11.53	58.94	100	0	P	V
		7311	38.75	-35.25	74	48.18	34.69	13.81	57.93	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	41.91	-32.09	74	55.94	33.44	11.37	58.84	100	0	P	H
		7386	38.4	-35.6	74	48.04	34.47	13.95	58.06	100	0	P	H
													H
													H
		4924	41.35	-32.65	74	55.38	33.44	11.37	58.84	100	0	P	V
		7386	38.57	-35.43	74	48.21	34.47	13.95	58.06	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		2385.39	55.18	-18.82	74	50.7	32.14	7.31	34.97	200	308	P	H	
		2371.32	44.74	-9.26	54	40.33	32.14	7.24	34.97	200	308	A	H	
	*	2412	102.65	-	-	98.08	32.24	7.31	34.98	200	308	P	H	
	*	2412	95	-	-	90.43	32.24	7.31	34.98	200	308	A	H	
													H	
														H
			2387.7	55.71	-18.29	74	51.18	32.19	7.31	34.97	241	139	P	V
			2389.695	44.76	-9.24	54	40.23	32.19	7.31	34.97	241	139	A	V
	*		2412	105.93	-	-	101.36	32.24	7.31	34.98	241	139	P	V
	*		2412	98.39	-	-	93.82	32.24	7.31	34.98	241	139	A	V
														V
														V
802.11g CH 06 2437MHz		2310.84	53.98	-20.02	74	49.82	31.93	7.18	34.95	200	239	P	H	
		2385.18	44.52	-9.48	54	40.04	32.14	7.31	34.97	200	239	A	H	
	*	2437	102.29	-	-	97.58	32.34	7.36	34.99	200	239	P	H	
	*	2437	94.56	-	-	89.85	32.34	7.36	34.99	200	239	A	H	
			2493.07	55.07	-18.93	74	50.18	32.5	7.4	35.01	200	239	P	H
			2483.83	44.93	-9.07	54	40.08	32.45	7.4	35	200	239	A	H
			2371.46	54.2	-19.8	74	49.79	32.14	7.24	34.97	342	174	P	V
			2352.56	44.51	-9.49	54	40.15	32.09	7.24	34.97	342	174	A	V
	*		2437	105.71	-	-	101	32.34	7.36	34.99	342	174	P	V
	*		2437	97.41	-	-	92.7	32.34	7.36	34.99	342	174	A	V
			2498.25	55.14	-18.86	74	50.25	32.5	7.4	35.01	342	174	P	V
			2495.03	45	-9	54	40.11	32.5	7.4	35.01	342	174	A	V



802.11g CH 11 2462MHz	*	2462	103.3	-	-	98.49	32.4	7.4	34.99	118	246	P	H
	*	2462	95.15	-	-	90.34	32.4	7.4	34.99	118	246	A	H
		2483.84	56.54	-17.46	74	51.69	32.45	7.4	35	118	246	P	H
		2483.52	46.78	-7.22	54	41.93	32.45	7.4	35	118	246	A	H
													H
													H
	*	2462	106.49	-	-	101.68	32.4	7.4	34.99	314	28	P	V
	*	2462	97.5	-	-	92.69	32.4	7.4	34.99	314	28	A	V
		2483.72	57.16	-16.84	74	52.31	32.45	7.4	35	314	28	P	V
		2483.68	48.27	-5.73	54	43.42	32.45	7.4	35	314	28	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		4824	37.85	-36.15	74	51.57	33.64	11.68	59.04	100	0	P	H	
													H	
													H	
													H	
			4824	37.94	-36.06	74	51.66	33.64	11.68	59.04	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	37.66	-36.34	74	51.53	33.54	11.53	58.94	100	0	P	H	
		7311	37.76	-36.24	74	47.19	34.69	13.81	57.93	100	0	P	H	
													H	
													H	
			4874	37.69	-36.31	74	51.56	33.54	11.53	58.94	100	0	P	V
			7311	38.61	-35.39	74	48.04	34.69	13.81	57.93	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	40.14	-33.86	74	54.17	33.44	11.37	58.84	100	0	P	H	
		7386	39.24	-34.76	74	48.88	34.47	13.95	58.06	100	0	P	H	
													H	
													H	
			4924	38.96	-35.04	74	52.99	33.44	11.37	58.84	100	0	P	V
			7386	39.25	-34.75	74	48.89	34.47	13.95	58.06	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 01 2412MHz		2327.64	54.55	-19.45	74	50.35	31.98	7.18	34.96	224	307	P	H	
		2389.275	45.06	-8.94	54	40.53	32.19	7.31	34.97	224	307	A	H	
	*	2412	102.82	-	-	98.25	32.24	7.31	34.98	224	307	P	H	
	*	2412	94.78	-	-	90.21	32.24	7.31	34.98	224	307	A	H	
													H	
														H
			2382.765	54.91	-19.09	74	50.43	32.14	7.31	34.97	240	142	P	V
			2389.8	44.88	-9.12	54	40.36	32.19	7.31	34.98	240	142	A	V
		*	2412	105.99	-	-	101.42	32.24	7.31	34.98	240	142	P	V
		*	2412	98.2	-	-	93.63	32.24	7.31	34.98	240	142	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2369.5	54.45	-19.55	74	50.04	32.14	7.24	34.97	227	240	P	H	
		2388.12	44.62	-9.38	54	40.09	32.19	7.31	34.97	227	240	A	H	
	*	2437	102.3	-	-	97.59	32.34	7.36	34.99	227	240	P	H	
	*	2437	94.22	-	-	89.51	32.34	7.36	34.99	227	240	A	H	
			2498.25	54.76	-19.24	74	49.87	32.5	7.4	35.01	227	240	P	H
			2483.55	44.94	-9.06	54	40.09	32.45	7.4	35	227	240	A	H
			2367.4	54.72	-19.28	74	50.36	32.09	7.24	34.97	281	176	P	V
			2389.66	44.59	-9.41	54	40.06	32.19	7.31	34.97	281	176	A	V
		*	2437	104.91	-	-	100.2	32.34	7.36	34.99	281	176	P	V
		*	2437	97.07	-	-	92.36	32.34	7.36	34.99	281	176	A	V
		2490.76	54.42	-19.58	74	49.52	32.5	7.4	35	281	176	P	V	
		2489.92	44.9	-9.1	54	40	32.5	7.4	35	281	176	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	103.62	-	-	98.81	32.4	7.4	34.99	152	238	P	H
	*	2462	95.85	-	-	91.04	32.4	7.4	34.99	152	238	A	H
		2483.72	58.62	-15.38	74	53.77	32.45	7.4	35	152	238	P	H
		2483.56	47.48	-6.52	54	42.63	32.45	7.4	35	152	238	A	H
													H
													H
	*	2462	105.09	-	-	100.28	32.4	7.4	34.99	244	181	P	V
	*	2462	97.38	-	-	92.57	32.4	7.4	34.99	244	181	A	V
		2483.52	62.23	-11.77	74	57.38	32.45	7.4	35	244	181	P	V
		2483.52	49.79	-4.21	54	44.94	32.45	7.4	35	244	181	A	V
													V
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 01 2412MHz		4824	46.78	-27.22	74	60.5	33.64	11.68	59.04	100	0	P	H	
													H	
													H	
													H	
			4824	47.89	-26.11	74	61.61	33.64	11.68	59.04	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4872	42.38	-31.62	74	56.25	33.54	11.53	58.94	100	0	P	H	
		7308	39.75	-34.25	74	49.18	34.69	13.81	57.93	100	0	P	H	
													H	
													H	
			4872	41.59	-32.41	74	55.46	33.54	11.53	58.94	100	0	P	V
			7308	39.17	-34.83	74	48.6	34.69	13.81	57.93	100	0	P	V
														V
802.11n HT20 CH 11 2462MHz		4926	43.6	-30.4	74	57.63	33.44	11.37	58.84	100	0	P	H	
		7386	38.57	-35.43	74	48.21	34.47	13.95	58.06	100	0	P	H	
													H	
													H	
			4926	40.8	-33.2	74	54.83	33.44	11.37	58.84	100	0	P	V
			7386	38.55	-35.45	74	48.19	34.47	13.95	58.06	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.52	55.99	-18.01	74	51.46	32.19	7.31	34.97	226	240	P	H
		2389.66	46.73	-7.27	54	42.2	32.19	7.31	34.97	226	240	A	H
	*	2422	99.5	-	-	94.84	32.29	7.36	34.99	226	240	P	H
	*	2422	91.74	-	-	87.08	32.29	7.36	34.99	226	240	A	H
		2493.91	55.14	-18.86	74	50.25	32.5	7.4	35.01	226	240	P	H
		2483.55	45.39	-8.61	54	40.54	32.45	7.4	35	226	240	A	H
		2389.94	56.73	-17.27	74	52.21	32.19	7.31	34.98	244	143	P	V
		2389.94	47.11	-6.89	54	42.59	32.19	7.31	34.98	244	143	A	V
	*	2422	103.05	-	-	98.39	32.29	7.36	34.99	244	143	P	V
	*	2422	95	-	-	90.34	32.29	7.36	34.99	244	143	A	V
		2485.16	54.7	-19.3	74	49.85	32.45	7.4	35	244	143	P	V
		2497.2	45.09	-8.91	54	40.2	32.5	7.4	35.01	244	143	A	V
802.11n HT40 CH 06 2437MHz		2360.12	54.52	-19.48	74	50.16	32.09	7.24	34.97	200	242	P	H
		2388.54	45.07	-8.93	54	40.54	32.19	7.31	34.97	200	242	A	H
	*	2437	99.88	-	-	95.17	32.34	7.36	34.99	200	242	P	H
	*	2437	92.21	-	-	87.5	32.34	7.36	34.99	200	242	A	H
		2494.75	54.86	-19.14	74	49.97	32.5	7.4	35.01	200	242	P	H
		2497.83	45.55	-8.45	54	40.66	32.5	7.4	35.01	200	242	A	H
		2361.8	55.1	-18.9	74	50.74	32.09	7.24	34.97	277	180	P	V
		2389.52	45.13	-8.87	54	40.6	32.19	7.31	34.97	277	180	A	V
	*	2437	103.64	-	-	98.93	32.34	7.36	34.99	277	180	P	V
	*	2437	95.44	-	-	90.73	32.34	7.36	34.99	277	180	A	V
		2497.9	55.54	-18.46	74	50.65	32.5	7.4	35.01	277	180	P	V
		2483.83	45.63	-8.37	54	40.78	32.45	7.4	35	277	180	A	V



802.11n HT40 CH 09 2452MHz		2377.34	54.77	-19.23	74	50.36	32.14	7.24	34.97	195	237	P	H
		2379.58	45.3	-8.7	54	40.89	32.14	7.24	34.97	195	237	A	H
	*	2452	99.58	-	-	94.87	32.34	7.36	34.99	195	237	P	H
	*	2452	91.72	-	-	87.01	32.34	7.36	34.99	195	237	A	H
		2483.76	57.33	-16.67	74	52.48	32.45	7.4	35	195	237	P	H
		2483.55	48.43	-5.57	54	43.58	32.45	7.4	35	195	237	A	H
		2378.46	55.3	-18.7	74	50.89	32.14	7.24	34.97	301	182	P	V
		2380.56	45.08	-8.92	54	40.6	32.14	7.31	34.97	301	182	A	V
	*	2452	102.12	-	-	97.41	32.34	7.36	34.99	301	182	P	V
	*	2452	94.3	-	-	89.59	32.34	7.36	34.99	301	182	A	V
		2483.52	58.27	-15.73	74	53.42	32.45	7.4	35	301	182	P	V
		2483.52	48.86	-5.14	54	44.01	32.45	7.4	35	301	182	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4842	38.84	-35.16	74	52.56	33.61	11.68	59.01	100	0	P	H
		7266	39.33	-34.67	74	48.69	34.78	13.75	57.89	100	0	P	H
													H
													H
		4842	39.61	-34.39	74	53.33	33.61	11.68	59.01	100	0	P	V
		7266	38.91	-35.09	74	48.27	34.78	13.75	57.89	100	0	P	V
													V
802.11n HT40 CH 06 2437MHz		4874	38.52	-35.48	74	52.39	33.54	11.53	58.94	100	0	P	H
		7308	39.44	-34.56	74	48.87	34.69	13.81	57.93	100	0	P	H
													H
													H
		4872	38.27	-35.73	74	52.14	33.54	11.53	58.94	100	0	P	V
		7308	39.94	-34.06	74	49.37	34.69	13.81	57.93	100	0	P	V
													V
802.11n HT40 CH 09 2452MHz		4902	39.73	-34.27	74	53.76	33.47	11.37	58.87	100	0	P	H
		7356	38.14	-35.86	74	47.71	34.56	13.88	58.01	100	0	P	H
													H
													H
		4902	38.5	-35.5	74	52.53	33.47	11.37	58.87	100	0	P	V
		7356	38.74	-35.26	74	48.31	34.56	13.88	58.01	100	0	P	V
													V
Remark	3. No other spurious found.												
	4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11n HT20 LF		30	28.34	-11.66	40	32.62	26	1.07	31.35	-	-	P	H	
		81.3	24.92	-15.08	40	41.17	14.02	1.28	31.55	-	-	P	H	
		179.58	33.13	-10.37	43.5	47.39	15.45	1.78	31.49	200	122	P	H	
		332.2	27.53	-18.47	46	35.64	20.72	2.41	31.24	-	-	P	H	
		634.6	29.59	-16.41	46	31.07	25.74	3.57	30.79	-	-	P	H	
		947.5	33.65	-12.35	46	29.96	30.15	4.07	30.53	-	-	P	H	
														H
														H
														H
														H
														H
														H
			35.94	32.98	-7.02	40	40.62	22.72	1.07	31.43	100	79	P	V
			49.44	26.95	-13.05	40	41.96	15.52	1.07	31.6	-	-	P	V
			63.48	25.48	-14.52	40	43.5	12.28	1.28	31.58	-	-	P	V
			435.1	24.92	-21.08	46	30.25	22.9	2.89	31.12	-	-	P	V
			667.5	29.93	-16.07	46	30.96	26.07	3.65	30.75	-	-	P	V
			935.6	33.32	-12.68	46	29.86	29.87	4.12	30.53	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	5. No other spurious found. 6. All results are PASS against limit line.													



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 12 2467MHz	*	2467	102.99	28.99	74	98.19	32.4	7.4	35	168	150	P	H
	*	2467	99.79	45.79	54	94.99	32.4	7.4	35	168	150	A	H
		2492.6	55.1	-18.9	74	50.21	32.5	7.4	35.01	168	150	P	H
		2484.2	44.89	-9.11	54	40.04	32.45	7.4	35	168	150	A	H
													H
													H
	*	2467	102.21	28.21	74	97.41	32.4	7.4	35	345	200	P	V
	*	2467	98.94	44.94	54	94.14	32.4	7.4	35	345	200	A	V
		2488.2	55.18	-18.82	74	50.28	32.5	7.4	35	345	200	P	V
		2484.2	45.68	-8.32	54	40.83	32.45	7.4	35	345	200	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	102.79	28.79	74	97.94	32.45	7.4	35	190	154	P	H
	*	2472	99.83	45.83	54	94.98	32.45	7.4	35	190	154	A	H
		2484.68	56.73	-17.27	74	51.88	32.45	7.4	35	190	154	P	H
		2484.64	48.21	-5.79	54	43.36	32.45	7.4	35	190	154	A	H
													H
													H
	*	2472	103.27	29.27	74	98.42	32.45	7.4	35	345	207	P	V
	*	2472	100.23	46.23	54	95.38	32.45	7.4	35	345	207	A	V
		2484.6	55.65	-18.35	74	50.8	32.45	7.4	35	345	207	P	V
		2487.52	47.84	-6.16	54	42.94	32.5	7.4	35	345	207	A	V
													V
													V
Remark	7. No other spurious found. 8. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4932	46.3	-27.7	74	60.33	33.44	11.37	58.84	100	0	P	H
		7404	40.23	-33.77	74	49.94	34.42	13.95	58.08	100	0	P	H
													H
													H
		4932	45	-29	74	59.03	33.44	11.37	58.84	100	0	P	V
		7404	40.56	-33.44	74	50.27	34.42	13.95	58.08	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	47.74	-26.26	74	61.92	33.4	11.22	58.8	100	0	P	H
		7416	39.78	-34.22	74	49.49	34.42	13.95	58.08	100	0	P	H
													H
													H
		4944	45.17	-28.83	74	59.35	33.4	11.22	58.8	100	0	P	V
		7416	39.42	-34.58	74	49.13	34.42	13.95	58.08	100	0	P	V
													V
													V
Remark	<p>9. No other spurious found.</p> <p>10. All results are PASS against Peak and Average limit line.</p>												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 12 2467MHz	*	2467	105.85	31.85	74	101.05	32.4	7.4	35	170	155	P	H
	*	2467	98.26	44.26	54	93.46	32.4	7.4	35	170	155	A	H
		2483.52	63.21	-10.79	74	58.36	32.45	7.4	35	170	155	P	H
		2483.52	49.94	-4.06	54	45.09	32.45	7.4	35	170	155	A	H
													H
													H
	*	2467	105.75	31.75	74	100.95	32.4	7.4	35	343	202	P	V
	*	2467	98.05	44.05	54	93.25	32.4	7.4	35	343	202	A	V
		2484.6	64.9	-9.1	74	60.05	32.45	7.4	35	343	202	P	V
		2483.52	50.15	-3.85	54	45.3	32.45	7.4	35	343	202	A	V
													V
													V
802.11g CH 12 2472MHz	*	2472	90.73	16.73	74	85.88	32.45	7.4	35	142	150	P	H
	*	2472	82.85	28.85	54	78	32.45	7.4	35	142	150	A	H
		2483.64	61.38	-12.62	74	56.53	32.45	7.4	35	142	150	P	H
		2483.52	50.93	-3.07	54	46.08	32.45	7.4	35	142	150	A	H
													H
													H
	*	2472	92.93	18.93	74	88.08	32.45	7.4	35	346	209	P	V
	*	2472	84.23	30.23	54	79.38	32.45	7.4	35	346	209	A	V
		2484.08	64.51	-9.49	74	59.66	32.45	7.4	35	346	209	P	V
		2483.68	53.36	-0.64	54	48.51	32.45	7.4	35	346	209	A	V
													V
													V
Remark	11. No other spurious found. 12. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz		4932	43.57	-30.43	74	57.6	33.44	11.37	58.84	100	0	P	H
		7404	39.81	-34.19	74	49.52	34.42	13.95	58.08	100	0	P	H
													H
													H
		4932	42.04	-31.96	74	56.07	33.44	11.37	58.84	100	0	P	V
		7404	39.62	-34.38	74	49.33	34.42	13.95	58.08	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	42.79	-31.21	74	56.97	33.4	11.22	58.8	100	0	P	H
		7416	39.19	-34.81	74	48.9	34.42	13.95	58.08	100	0	P	H
													H
													H
		4944	40.52	-33.48	74	54.7	33.4	11.22	58.8	100	0	P	V
		7416	39.6	-34.4	74	49.31	34.42	13.95	58.08	100	0	P	V
													V
													V
Remark	<p>13. No other spurious found.</p> <p>14. All results are PASS against Peak and Average limit line.</p>												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11n HT20 CH 12 2467MHz	*	2467	106.03	32.03	74	101.23	32.4	7.4	35	138	159	P	H	
	*	2467	97.97	43.97	54	93.17	32.4	7.4	35	138	159	A	H	
		2483.64	58.09	-15.91	74	53.24	32.45	7.4	35	138	159	P	H	
		2483.52	48.71	-5.29	54	43.86	32.45	7.4	35	138	159	A	H	
													H	
														H
	*	2467	106.29	32.29	74	101.49	32.4	7.4	35	346	212	P	V	
	*	2467	98.44	44.44	54	93.64	32.4	7.4	35	346	212	A	V	
		2483.76	62.89	-11.11	74	58.04	32.45	7.4	35	346	212	P	V	
		2483.52	51.5	-2.5	54	46.65	32.45	7.4	35	346	212	A	V	
													V	
													V	
802.11n HT20 CH 12 2472MHz	*	2472	90.08	16.08	74	85.23	32.45	7.4	35	147	148	P	H	
	*	2472	82.54	28.54	54	77.69	32.45	7.4	35	147	148	A	H	
		2483.88	64.52	-9.48	74	59.67	32.45	7.4	35	147	148	P	H	
		2483.52	50.8	-3.2	54	45.95	32.45	7.4	35	147	148	A	H	
													H	
														H
	*	2472	91.15	17.15	74	86.3	32.45	7.4	35	345	207	P	V	
	*	2472	83.79	29.79	54	78.94	32.45	7.4	35	345	207	A	V	
		2483.72	66.92	-7.08	74	62.07	32.45	7.4	35	345	207	P	V	
		2483.52	53.36	-0.64	54	48.51	32.45	7.4	35	345	207	A	V	
													V	
													V	
Remark	<p>15. No other spurious found.</p> <p>16. All results are PASS against Peak and Average limit line.</p>													



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz		4932	42.8	-31.2	74	56.83	33.44	11.37	58.84	100	0	P	H
		7404	39.28	-34.72	74	48.99	34.42	13.95	58.08	100	0	P	H
													H
													H
		4932	41.75	-32.25	74	55.78	33.44	11.37	58.84	100	0	P	V
		7404	40.32	-33.68	74	50.03	34.42	13.95	58.08	100	0	P	V
													V
													V
802.11n HT20 CH 13 2472MHz		4944	40.76	-33.24	74	54.94	33.4	11.22	58.8	100	0	P	H
		7416	39.48	-34.52	74	49.19	34.42	13.95	58.08	100	0	P	H
													H
													H
		4944	40.11	-33.89	74	54.29	33.4	11.22	58.8	100	0	P	V
		7416	39.3	-34.7	74	49.01	34.42	13.95	58.08	100	0	P	V
													V
													V
Remark	17. No other spurious found. 18. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 10 2457MHz		2386.72	54.87	-19.13	74	50.34	32.19	7.31	34.97	151	155	P	H
		2375.24	45.21	-8.79	54	40.8	32.14	7.24	34.97	151	155	A	H
	*	2457	103.31	29.31	74	98.54	32.4	7.36	34.99	151	155	P	H
	*	2457	95.41	41.41	54	90.64	32.4	7.36	34.99	151	155	A	H
		2483.69	60.41	-13.59	74	55.56	32.45	7.4	35	151	155	P	H
		2483.52	51.24	-2.76	54	46.39	32.45	7.4	35	151	155	A	H
		2384.9	54.54	-19.46	74	50.06	32.14	7.31	34.97	344	178	P	V
		2375.8	45.12	-8.88	54	40.71	32.14	7.24	34.97	344	178	A	V
	*	2457	101.98	27.98	74	97.21	32.4	7.36	34.99	344	178	P	V
	*	2457	93.99	39.99	54	89.22	32.4	7.36	34.99	344	178	A	V
		2483.52	58.75	-15.25	74	53.9	32.45	7.4	35	344	178	P	V
		2483.52	49.7	-4.3	54	44.85	32.45	7.4	35	344	178	A	V
802.11n HT40 CH 11 2462MHz		2352.84	55.18	-18.82	74	50.82	32.09	7.24	34.97	150	156	P	H
		2385.18	45.37	-8.63	54	40.89	32.14	7.31	34.97	150	156	A	H
	*	2462	90.32	16.32	74	85.51	32.4	7.4	34.99	150	156	P	H
	*	2462	82.02	28.02	54	77.21	32.4	7.4	34.99	150	156	A	H
		2484.39	58.99	-15.01	74	54.14	32.45	7.4	35	150	156	P	H
		2483.52	51.1	-2.9	54	46.25	32.45	7.4	35	150	156	A	H
		2386.72	54.65	-19.35	74	50.12	32.19	7.31	34.97	346	200	P	V
		2379.16	45.25	-8.75	54	40.84	32.14	7.24	34.97	346	200	A	V
	*	2462	89.23	15.23	74	84.42	32.4	7.4	34.99	346	200	P	V
	*	2462	81.91	27.91	54	77.1	32.4	7.4	34.99	346	200	A	V
		2483.76	62.61	-11.39	74	57.76	32.45	7.4	35	346	200	P	V
		2483.55	53.21	-0.79	54	48.36	32.45	7.4	35	346	200	A	V
Remark	19. No other spurious found. 20. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 10 2457MHz		4914	40.63	-33.37	74	54.66	33.47	11.37	58.87	100	0	P	H
		7368	38.94	-35.06	74	48.58	34.51	13.88	58.03	100	0	P	H
													H
													H
		4914	39.76	-34.24	74	53.79	33.47	11.37	58.87	100	0	P	V
		7368	40.08	-33.92	74	49.72	34.51	13.88	58.03	100	0	P	V
													V
													V
802.11n HT40 CH 11 2462MHz		4926	39.34	-34.66	74	53.37	33.44	11.37	58.84	100	0	P	H
		7386	38.9	-35.1	74	48.54	34.47	13.95	58.06	100	0	P	H
													H
													H
		4926	39.09	-34.91	74	53.12	33.44	11.37	58.84	100	0	P	V
		7386	39.44	-34.56	74	49.08	34.47	13.95	58.06	100	0	P	V
													V
													V
Remark	21. No other spurious found. 22. All results are PASS against Peak and Average limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

- Level(dBμV/m) =
Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.