



Appendix B. Radiated Spurious Emission

15C 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.		
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11b CH 01 2412MHz		2385.6	61.17	-12.83	74	55.58	32.18	7.75	34.34	285	264	P	H	
		2389.29	49.17	-4.83	54	43.57	32.18	7.75	34.33	285	264	A	H	
	*	2412	114.83	-	-	109.18	32.2	7.75	34.3	285	264	P	H	
	*	2412	110.7	-	-	105.05	32.2	7.75	34.3	285	264	A	H	
													H	
													H	
			2388.57	59.95	-14.05	74	54.35	32.18	7.75	34.33	359	4	P	V
			2389	49.08	-4.92	54	43.48	32.18	7.75	34.33	359	4	A	V
	*		2412	115.23	-	-	109.58	32.2	7.75	34.3	359	4	P	V
	*		2412	111.52	-	-	105.87	32.2	7.75	34.3	359	4	A	V
													V	
													V	
802.11b CH 06 2437MHz		2366.79	58.93	-15.07	74	53.49	32.13	7.68	34.37	356	258	P	H	
		2388.66	45.7	-8.3	54	40.1	32.18	7.75	34.33	356	258	A	H	
	*	2437	117.82	-	-	112	32.24	7.83	34.25	356	258	P	H	
	*	2437	114.25	-	-	108.43	32.24	7.83	34.25	356	258	A	H	
			2484.44	63.23	-10.77	74	57.22	32.28	7.91	34.18	356	258	P	H
			2484.92	50	-4	54	43.99	32.28	7.91	34.18	356	258	A	H
			2325.21	59.37	-14.63	74	54.12	32.09	7.6	34.44	376	234	P	V
			2388.57	45.17	-8.83	54	39.57	32.18	7.75	34.33	376	234	A	V
	*		2437	115.64	-	-	109.82	32.24	7.83	34.25	376	234	P	V
	*		2437	111.83	-	-	106.01	32.24	7.83	34.25	376	234	A	V
			2488.44	63.17	-10.83	74	57.13	32.3	7.91	34.17	376	234	P	V
			2485	48.29	-5.71	54	42.27	32.28	7.91	34.17	376	234	A	V



802.11b CH 11 2462MHz	*	2462	116.62	-	-	110.66	32.26	7.91	34.21	346	250	P	H
	*	2462	112.96	-	-	107	32.26	7.91	34.21	346	250	A	H
		2484.48	64.53	-9.47	74	58.52	32.28	7.91	34.18	346	250	P	H
		2484.6	53.87	-0.13	54	47.86	32.28	7.91	34.18	346	250	P	H
													H
													H
	*	2462	114.54	-	-	108.58	32.26	7.91	34.21	395	353	P	V
	*	2462	110.75	-	-	104.79	32.26	7.91	34.21	395	353	A	V
		2483.88	62.39	-11.61	74	56.38	32.28	7.91	34.18	395	353	P	V
		2484.8	51.76	-2.24	54	45.75	32.28	7.91	34.18	395	353	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 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.	
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	54.02	-19.98	74	68.24	34.26	11.16	59.64	317	342	P	H
		4824	52.49	-1.51	54	66.71	34.26	11.16	59.64	317	342	A	H
													H
													H
		4824	55.04	-18.96	74	69.26	34.26	11.16	59.64	349	264	P	V
		4824	52.27	-1.73	54	66.49	34.26	11.16	59.64	349	264	A	V
													V
													V
802.11b CH 06 2437MHz		4872	44.39	-29.61	74	58.45	34.3	11.21	59.57	100	0	P	H
		7308	58.23	-15.77	74	66.02	35.6	15.08	58.47	200	249	P	H
		7308	52.77	-1.23	54	60.56	35.6	15.08	58.47	200	249	A	H
													H
		4872	54.49	-19.51	74	68.55	34.3	11.21	59.57	395	272	P	V
		4872	52.37	-1.63	54	66.43	34.3	11.21	59.57	395	272	A	V
		7308	53.25	-20.75	74	61.04	35.6	15.08	58.47	395	262	P	V
		7308	47.12	-6.88	54	54.91	35.6	15.08	58.47	395	262	A	V
802.11b CH 11 2462MHz		4926	52.37	-21.63	74	66.26	34.34	11.27	59.5	300	0	P	H
		4926	49.9	-4.1	54	63.79	34.34	11.27	59.5	300	0	A	H
		7386	54.8	-19.2	74	62.64	35.6	15.14	58.58	200	252	P	H
		7386	48.33	-5.67	54	56.17	35.6	15.14	58.58	200	252	A	H
		4926	54.41	-19.59	74	68.3	34.34	11.27	59.5	395	273	P	V
		4926	52.75	-1.25	54	66.64	34.34	11.27	59.5	395	273	A	V
		7386	43.77	-30.23	74	51.61	35.6	15.14	58.58	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 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.		
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11g CH 01 2412MHz		2388.93	68.98	-5.02	74	63.38	32.18	7.75	34.33	290	261	P	H	
		2389.74	53	-1	54	47.4	32.18	7.75	34.33	290	261	A	H	
	*	2412	115.54	-	-	109.89	32.2	7.75	34.3	290	261	P	H	
	*	2412	104.04	-	-	98.39	32.2	7.75	34.3	290	261	A	H	
													H	
													H	
			2389.92	67.16	-6.84	74	61.56	32.18	7.75	34.33	371	234	P	V
			2390	52.61	-1.39	54	47.01	32.18	7.75	34.33	371	234	A	V
	*		2412	116.44	-	-	110.79	32.2	7.75	34.3	371	234	P	V
	*		2412	104.17	-	-	98.52	32.2	7.75	34.3	371	234	A	V
														V
														V
802.11g CH 06 2437MHz		2387.31	61.89	-12.11	74	56.3	32.18	7.75	34.34	309	264	P	H	
		2389.11	48.34	-5.66	54	42.74	32.18	7.75	34.33	309	264	A	H	
	*	2437	117.35	-	-	111.53	32.24	7.83	34.25	309	264	P	H	
	*	2437	105.7	-	-	99.88	32.24	7.83	34.25	309	264	A	H	
			2483.96	65.91	-8.09	74	59.9	32.28	7.91	34.18	309	264	P	H
			2486	51.92	-2.08	54	45.9	32.28	7.91	34.17	309	264	A	H
			2382.27	58.55	-15.45	74	52.99	32.16	7.75	34.35	377	228	P	V
			2386.5	44.76	-9.24	54	39.17	32.18	7.75	34.34	377	228	A	V
	*		2437	114.6	-	-	108.78	32.24	7.83	34.25	377	228	P	V
	*		2437	102.75	-	-	96.93	32.24	7.83	34.25	377	228	A	V
			2484.84	64.08	-9.92	74	58.07	32.28	7.91	34.18	377	228	P	V
			2484.52	50.18	-3.82	54	44.17	32.28	7.91	34.18	377	228	A	V



802.11g CH 11 2462MHz	*	2462	117.14	-	-	111.18	32.26	7.91	34.21	353	255	P	H
	*	2462	104.79	-	-	98.83	32.26	7.91	34.21	353	255	A	H
		2487.56	68.56	-5.44	74	62.52	32.3	7.91	34.17	353	255	P	H
		2486.44	50.57	-3.43	54	44.55	32.28	7.91	34.17	353	255	A	H
													H
													H
	*	2462	116.16	-	-	110.2	32.26	7.91	34.21	355	233	P	V
	*	2462	104.63	-	-	98.67	32.26	7.91	34.21	355	233	A	V
		2484.56	67.24	-6.76	74	61.23	32.28	7.91	34.18	355	233	P	V
		2483.52	49.81	-4.19	54	43.8	32.28	7.91	34.18	355	233	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 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.	
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	64.33	-9.67	74	78.55	34.26	11.16	59.64	395	341	P	H
		4824	49.06	-4.94	54	63.28	34.26	11.16	59.64	395	341	A	H
													H
													H
		4824	66.87	-7.13	74	81.09	34.26	11.16	59.64	395	272	P	V
		4824	51.36	-2.64	54	65.58	34.26	11.16	59.64	395	272	A	V
													V
													V
802.11g CH 06 2437MHz		4874	60.05	-13.95	74	74.11	34.3	11.21	59.57	395	148	P	H
		4874	44.92	-9.08	54	58.98	34.3	11.21	59.57	395	148	A	H
		7308	57.86	-16.14	74	65.65	35.6	15.08	58.47	300	293	P	H
		7308	39.39	-14.61	54	47.18	35.6	15.08	58.47	300	293	A	H
		4874	65.24	-8.76	74	79.3	34.3	11.21	59.57	395	272	P	V
		4874	49.46	-4.54	54	63.52	34.3	11.21	59.57	395	272	A	V
		7308	50.86	-23.14	74	58.65	35.6	15.08	58.47	100	0	P	V
													V
802.11g CH 11 2462MHz		4924	61.5	-12.5	74	75.39	34.34	11.27	59.5	331	351	P	H
		4924	47.89	-6.11	54	61.78	34.34	11.27	59.5	331	351	A	H
		7386	55.44	-18.56	74	63.28	35.6	15.14	58.58	288	257	P	H
		7386	37.96	-16.04	54	45.8	35.6	15.14	58.58	288	257	A	H
		4924	62.78	-11.22	74	76.67	34.34	11.27	59.5	333	359	P	V
		4924	48.26	-5.74	54	62.15	34.34	11.27	59.5	333	359	A	V
		7386	49.07	-24.93	74	56.91	35.6	15.14	58.58	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 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.		
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11n HT20 CH 01 2412MHz		2389.83	66.21	-7.79	74	60.61	32.18	7.75	34.33	395	38	P	H	
		2390	52.01	-1.99	54	46.41	32.18	7.75	34.33	395	38	A	H	
	*	2412	112.98	-	-	107.33	32.2	7.75	34.3	395	38	P	H	
	*	2412	102.04	-	-	96.39	32.2	7.75	34.3	395	38	A	H	
													H	
														H
			2389.92	69.29	-4.71	74	63.69	32.18	7.75	34.33	391	14	P	V
			2390	53.29	-0.71	54	47.69	32.18	7.75	34.33	391	14	A	V
		*	2412	116.52	-	-	110.87	32.2	7.75	34.3	391	14	P	V
		*	2412	104.93	-	-	99.28	32.2	7.75	34.3	391	14	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2386.68	59.34	-14.66	74	53.75	32.18	7.75	34.34	381	40	P	H	
		2387.4	45.06	-8.94	54	39.47	32.18	7.75	34.34	381	40	A	H	
	*	2437	109.25	-	-	103.43	32.24	7.83	34.25	381	40	P	H	
	*	2437	96.03	-	-	90.21	32.24	7.83	34.25	381	40	A	H	
		2485.28	59.99	-14.01	74	53.97	32.28	7.91	34.17	381	40	P	H	
		2488.92	45.73	-8.27	54	39.69	32.3	7.91	34.17	381	40	A	H	
		2389.29	59.17	-14.83	74	53.57	32.18	7.75	34.33	386	10	P	V	
		2386.68	45.58	-8.42	54	39.99	32.18	7.75	34.34	386	10	A	V	
		*	2437	112.06	-	-	106.24	32.24	7.83	34.25	386	10	P	V
		*	2437	99.44	-	-	93.62	32.24	7.83	34.25	386	10	A	V
		2485.36	62.12	-11.88	74	56.1	32.28	7.91	34.17	386	10	P	V	
		2486.88	46.75	-7.25	54	40.73	32.28	7.91	34.17	386	10	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	112	-	-	106.04	32.26	7.91	34.21	385	31	P	H
	*	2462	100.53	-	-	94.57	32.26	7.91	34.21	385	31	A	H
		2483.6	70.25	-3.75	74	64.24	32.28	7.91	34.18	385	31	P	H
		2483.52	52.49	-1.51	54	46.48	32.28	7.91	34.18	385	31	A	H
													H
													H
	*	2462	115.56	-	-	109.6	32.26	7.91	34.21	378	17	P	V
	*	2462	103.94	-	-	97.98	32.26	7.91	34.21	378	17	A	V
		2483.6	70.81	-3.19	74	64.8	32.28	7.91	34.18	378	17	P	V
		2483.52	53.27	-0.73	54	47.26	32.28	7.91	34.18	378	17	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 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.	
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	65.51	-8.49	74	79.73	34.26	11.16	59.64	336	334	P	H
		4824	50.24	-3.76	54	64.46	34.26	11.16	59.64	336	334	A	H
													H
													H
		4824	65.99	-8.01	74	80.21	34.26	11.16	59.64	352	359	P	V
		4824	51.01	-2.99	54	65.23	34.26	11.16	59.64	352	359	A	V
													V
802.11n HT20 CH 06 2437MHz		4874	64.37	-9.63	74	78.43	34.3	11.21	59.57	334	334	P	H
		4874	49.15	-4.85	54	63.21	34.3	11.21	59.57	334	334	A	H
		7311	55.96	-18.04	74	63.75	35.6	15.08	58.47	353	291	P	H
		7311	37.64	-16.36	54	45.43	35.6	15.08	58.47	353	291	A	H
		4874	66.63	-7.37	74	80.69	34.3	11.21	59.57	366	301	P	V
		4874	50.47	-3.53	54	64.53	34.3	11.21	59.57	366	301	A	V
		7311	55.12	-18.88	74	62.91	35.6	15.08	58.47	332	313	P	V
802.11n HT20 CH 11 2462MHz		4924	62.43	-11.57	74	76.32	34.34	11.27	59.5	291	337	P	H
		4924	46.89	-7.11	54	60.78	34.34	11.27	59.5	291	337	A	H
		7386	48.2	-25.8	74	56.04	35.6	15.14	58.58	100	0	P	H
													H
		4924	66.56	-7.44	74	80.45	34.34	11.27	59.5	356	360	P	V
		4924	50.87	-3.13	54	64.76	34.34	11.27	59.5	356	360	A	V
		7386	52.22	-21.78	74	60.06	35.6	15.14	58.58	244	238	P	V
	7386	35.48	-18.52	54	43.32	35.6	15.14	58.58	244	238	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**15C 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.	
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2383.35	68.26	-5.74	74	62.69	32.16	7.75	34.34	353	289	P	H
		2383.17	51.56	-2.44	54	45.99	32.16	7.75	34.34	353	289	A	H
	*	2422	114.23	-	-	108.46	32.22	7.83	34.28	353	289	P	H
	*	2422	102.25	-	-	96.48	32.22	7.83	34.28	353	289	A	H
		2494.84	61.24	-12.76	74	55.19	32.3	7.91	34.16	353	289	P	H
		2483.56	46.76	-7.24	54	40.75	32.28	7.91	34.18	353	289	A	H
		2386.86	68.93	-5.07	74	63.34	32.18	7.75	34.34	345	334	P	V
		2386.86	52.66	-1.34	54	47.07	32.18	7.75	34.34	345	334	A	V
	*	2422	111.75	-	-	105.98	32.22	7.83	34.28	345	334	P	V
	*	2422	100.55	-	-	94.78	32.22	7.83	34.28	345	334	A	V
		2486.2	60.47	-13.53	74	54.45	32.28	7.91	34.17	345	334	P	V
		2484.72	46.24	-7.76	54	40.23	32.28	7.91	34.18	345	334	A	V
802.11n HT40 CH 06 2437MHz		2390	64.92	-9.08	74	59.32	32.18	7.75	34.33	356	290	P	H
		2390	49.84	-4.16	54	44.24	32.18	7.75	34.33	356	290	A	H
	*	2437	112.81	-	-	106.99	32.24	7.83	34.25	356	290	P	H
	*	2437	101.57	-	-	95.75	32.24	7.83	34.25	356	290	A	H
		2486	66.33	-7.67	74	60.31	32.28	7.91	34.17	356	290	P	H
		2483.6	49.82	-4.18	54	43.81	32.28	7.91	34.18	356	290	A	H
		2387.94	59.58	-14.42	74	53.99	32.18	7.75	34.34	386	340	P	V
		2390	46.52	-7.48	54	40.92	32.18	7.75	34.33	386	340	A	V
	*	2437	109.14	-	-	103.32	32.24	7.83	34.25	386	340	P	V
	*	2437	97.46	-	-	91.64	32.24	7.83	34.25	386	340	A	V
		2490.64	62.04	-11.96	74	56	32.3	7.91	34.17	386	340	P	V
		2489.72	46.78	-7.22	54	40.74	32.3	7.91	34.17	386	340	A	V



802.11n HT40 CH 09 2452MHz		2357.88	58.56	-15.44	74	53.14	32.13	7.68	34.39	395	264	P	H
		2389.47	44.65	-9.35	54	39.05	32.18	7.75	34.33	395	264	A	H
	*	2460.371	112	-	-	106.05	32.26	7.91	34.22	395	264	P	H
	*	2459.953	99.83	-	-	93.96	32.26	7.83	34.22	395	264	A	H
		2485.6	68.66	-5.34	74	62.64	32.28	7.91	34.17	395	264	P	H
		2483.52	51.18	-2.82	54	45.17	32.28	7.91	34.18	395	264	A	H
		2378.94	58.8	-15.2	74	53.31	32.16	7.68	34.35	379	10	P	V
		2389.47	44.44	-9.56	54	38.84	32.18	7.75	34.33	379	10	A	V
	*	2454.275	108.31	-	-	102.45	32.26	7.83	34.23	379	10	P	V
	*	2453.44	96.29	-	-	90.45	32.24	7.83	34.23	379	10	A	V
		2488.52	64.08	-9.92	74	58.04	32.3	7.91	34.17	379	10	P	V
	2483.52	48.45	-5.55	54	42.44	32.28	7.91	34.18	379	10	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 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.	
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		4844	55.51	-18.49	74	69.69	34.28	11.16	59.62	346	339	P	H
		4844	40.45	-13.55	54	54.63	34.28	11.16	59.62	346	339	A	H
		7266	49.01	-24.99	74	56.78	35.6	15.06	58.43	100	0	P	H
													H
		4844	58.56	-15.44	74	72.74	34.28	11.16	59.62	332	360	P	V
		4844	42.5	-11.5	54	56.68	34.28	11.16	59.62	332	360	A	V
		7266	46.55	-27.45	74	54.32	35.6	15.06	58.43	100	0	P	V
													V
802.11n HT40 CH 06 2437MHz		4874	60.06	-13.94	74	74.12	34.3	11.21	59.57	253	338	P	H
		4874	43.88	-10.12	54	57.94	34.3	11.21	59.57	253	338	A	H
		7311	46.16	-27.84	74	53.95	35.6	15.08	58.47	100	0	P	H
													H
		4874	62.7	-11.3	74	76.76	34.3	11.21	59.57	341	3	P	V
		4874	47.74	-6.26	54	61.8	34.3	11.21	59.57	341	3	A	V
		7311	44.26	-29.74	74	52.05	35.6	15.08	58.47	100	0	P	V
													V
802.11n HT40 CH 09 2452MHz		4904	56.89	-17.11	74	70.81	34.33	11.27	59.52	280	32	P	H
		4904	41.81	-12.19	54	55.73	34.33	11.27	59.52	280	32	A	H
		7356	43.28	-30.72	74	51.1	35.6	15.11	58.53	100	0	P	H
													H
		4904	60.31	-13.69	74	74.23	34.33	11.27	59.52	369	359	P	V
		4904	42.86	-11.14	54	56.78	34.33	11.27	59.52	369	359	A	V
		7356	44.21	-29.79	74	52.03	35.6	15.11	58.53	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz
15C Emission below 1GHz
2.4GHz WIFI 802.11b (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11b LF		30	34.29	-5.71	40	44.12	19.9	1.77	31.5	-	-	P	H	
		147.99	37.54	-5.96	43.5	54.68	11.35	2.61	31.1	-	-	P	H	
		258.42	39.99	-6.01	46	54.13	13.9	2.96	31	-	-	P	H	
		324.5	39.59	-6.41	46	52.71	14.6	3.28	31	-	-	P	H	
		650	41.63	-4.37	46	48.21	19.7	4.22	30.5	100	23	P	H	
		687.8	38.18	-7.82	46	44.55	19.7	4.35	30.42	-	-	P	H	
														H
														H
														H
														H
														H
														H
			30	36.89	-3.11	40	46.72	19.9	1.77	31.5	100	44	P	V
			148.8	34.14	-9.36	43.5	51.28	11.35	2.61	31.1	-	-	P	V
			256.53	37.78	-8.22	46	52.02	13.8	2.96	31	-	-	P	V
			324.5	34.04	-11.96	46	47.16	14.6	3.28	31	-	-	P	V
			650	39.71	-6.29	46	46.29	19.7	4.22	30.5	-	-	P	V
			687.8	32.42	-13.58	46	38.79	19.7	4.35	30.42	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



15C Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11g LF		30.27	31.35	-8.65	40	41.18	19.9	1.77	31.5	-	-	P	H	
		149.34	37.84	-5.66	43.5	55.06	11.27	2.61	31.1	-	-	P	H	
		259.23	39.6	-6.4	46	53.64	14	2.96	31	-	-	P	H	
		324.5	38.84	-7.16	46	51.96	14.6	3.28	31	-	-	P	H	
		650	41.35	-4.65	46	47.93	19.7	4.22	30.5	100	22	P	H	
		687.8	37.54	-8.46	46	43.91	19.7	4.35	30.42	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			30.27	36.94	-3.06	40	46.77	19.9	1.77	31.5	100	51	P	V
			149.34	34.72	-8.78	43.5	51.94	11.27	2.61	31.1	-	-	P	V
			258.96	36.35	-9.65	46	50.39	14	2.96	31	-	-	P	V
			324.5	33.77	-12.23	46	46.89	14.6	3.28	31	-	-	P	V
			650	39.09	-6.91	46	45.67	19.7	4.22	30.5	-	-	P	V
			687.8	32.07	-13.93	46	38.44	19.7	4.35	30.42	-	-	P	V
														V
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



**15C Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
4TX		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11n HT20 LF		30.27	30.65	-9.35	40	40.48	19.9	1.77	31.5	-	-	P	H	
		149.07	38.67	-4.83	43.5	55.89	11.27	2.61	31.1	-	-	P	H	
		260.85	38.9	-7.1	46	52.69	14.05	3.16	31	-	-	P	H	
		324.5	39.17	-6.83	46	52.29	14.6	3.28	31	-	-	P	H	
		650	41.24	-4.76	46	47.82	19.7	4.22	30.5	100	26	P	H	
		687.8	37.64	-8.36	46	44.01	19.7	4.35	30.42	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			30	36.59	-3.41	40	46.42	19.9	1.77	31.5	100	77	P	V
			148.8	34.07	-9.43	43.5	51.21	11.35	2.61	31.1	-	-	P	V
			260.58	37.63	-8.37	46	51.42	14.05	3.16	31	-	-	P	V
			324.5	34.43	-11.57	46	47.55	14.6	3.28	31	-	-	P	V
			650	39.92	-6.08	46	46.5	19.7	4.22	30.5	-	-	P	V
			687.8	31.86	-14.14	46	38.23	19.7	4.35	30.42	-	-	P	V
														V
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



**15C Emission below 1GHz
2.4GHz WIFI 802.11n HT40 (LF)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
4TX		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11n HT40 LF		30.54	31.62	-8.38	40	41.97	19.34	1.77	31.46	-	-	P	H	
		148.8	38.79	-4.71	43.5	55.93	11.35	2.61	31.1	-	-	P	H	
		260.31	38.92	-7.08	46	52.66	14.1	3.16	31	-	-	P	H	
		324.5	40.55	-5.45	46	53.67	14.6	3.28	31	-	-	P	H	
		650	41.67	-4.33	46	48.25	19.7	4.22	30.5	100	31	P	H	
		687.8	37.62	-8.38	46	43.99	19.7	4.35	30.42	-	-	P	H	
														H
														H
														H
														H
														H
														H
			30	36.34	-3.66	40	46.17	19.9	1.77	31.5	100	84	P	V
			148.53	34.62	-8.88	43.5	51.76	11.35	2.61	31.1	-	-	P	V
			260.31	37.63	-8.37	46	51.37	14.1	3.16	31	-	-	P	V
			324.5	33.24	-12.76	46	46.36	14.6	3.28	31	-	-	P	V
			650	39.57	-6.43	46	46.15	19.7	4.22	30.5	-	-	P	V
			687.8	31.83	-14.17	46	38.2	19.7	4.35	30.42	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against 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 per 15.209(c).
!	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+2		(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”.