



Appendix B. Radiated Spurious Emission

Test Engineer :	Stan Hsieh, Luke Chang, and Lewis He	Temperature :	22~23°C
		Relative Humidity :	45~47%
Remark:	For radiated emission, all tests were performed with iPod earphone, USB Cable, and Adapter 1		

Band 1 5150~5250MHz

WIFI 802.11a (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)	
802.11a CH 36 5180MHz		5148.35	51.91	-22.09	74	44.78	31.72	8.95	33.54	194	334	P	H	
		5150	43.21	-10.79	54	36.08	31.72	8.95	33.54	194	334	A	H	
	*	5182	97.08	-	-	89.9	31.75	8.97	33.54	194	334	P	H	
	*	5182	91.19	-	-	84.01	31.75	8.97	33.54	194	334	A	H	
													H	
														H
			5149.25	61.59	-12.41	74	54.46	31.72	8.95	33.54	157	46	P	V
			5149.7	51.83	-2.17	54	44.7	31.72	8.95	33.54	157	46	A	V
	*		5182	107.64	-	-	100.46	31.75	8.97	33.54	157	46	P	V
	*		5182	100.75	-	-	93.57	31.75	8.97	33.54	157	46	A	V
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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)
802.11a CH 44 5220MHz		5125.7	50.7	-23.3	74	43.58	31.71	8.95	33.54	185	333	P	H
		5144.45	40.45	-13.55	54	33.32	31.72	8.95	33.54	185	333	A	H
	*	5222	100.42	-	-	93.21	31.77	8.98	33.54	185	333	P	H
	*	5222	93.05	-	-	85.84	31.77	8.98	33.54	185	333	A	H
		5383.77	49.04	-24.96	74	41.55	31.91	9.13	33.55	185	333	P	H
		5350	39.78	-14.22	54	32.36	31.88	9.08	33.54	185	333	A	H
		5147.15	52.82	-21.18	74	45.69	31.72	8.95	33.54	165	86	P	V
		5142.35	44.19	-9.81	54	37.06	31.72	8.95	33.54	165	86	A	V
	*	5221	107.71	-	-	100.5	31.77	8.98	33.54	165	86	P	V
	*	5221	100.71	-	-	93.5	31.77	8.98	33.54	165	86	A	V
		5451.64	50.51	-23.49	74	42.88	31.96	9.22	33.55	165	86	P	V
		5350	41.65	-12.35	54	34.23	31.88	9.08	33.54	165	86	A	V
802.11a CH 48 5240MHz		5063.15	49.52	-24.48	74	42.51	31.65	8.89	33.53	196	333	P	H
		5108.15	40.17	-13.83	54	33.09	31.69	8.92	33.53	196	333	A	H
	*	5238	99.85	-	-	92.62	31.79	8.98	33.54	196	333	P	H
	*	5238	93.18	-	-	85.95	31.79	8.98	33.54	196	333	A	H
		5423.04	48.04	-25.96	74	40.49	31.93	9.17	33.55	196	333	P	H
		5385.2	39.7	-14.3	54	32.21	31.91	9.13	33.55	196	333	A	H
		5128.25	51.56	-22.44	74	44.44	31.71	8.95	33.54	172	132	P	V
		5145.95	43.2	-10.8	54	36.07	31.72	8.95	33.54	172	132	A	V
	*	5239	106.35	-	-	99.12	31.79	8.98	33.54	172	132	P	V
	*	5239	100.6	-	-	93.37	31.79	8.98	33.54	172	132	A	V
		5353.08	49.93	-24.07	74	42.51	31.88	9.08	33.54	172	132	P	V
	5353.41	41.54	-12.46	54	34.12	31.88	9.08	33.54	172	132	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10360	44.29	-29.71	74	48.44	39.94	13.09	57.18	100	0	P	H
		15540	43.8	-30.2	74	47.19	38.33	16.55	58.27	100	0	P	H
													H
													H
		10360	43.45	-30.55	74	47.6	39.94	13.09	57.18	100	0	P	V
		15540	41.25	-32.75	74	44.64	38.33	16.55	58.27	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	44.18	-29.82	74	48.19	40.02	13.11	57.14	100	0	P	H
		15660	42.42	-31.58	74	45.95	38.09	16.56	58.18	100	0	P	H
													H
													H
		10440	43.36	-30.64	74	47.37	40.02	13.11	57.14	100	0	P	V
		15660	43.17	-30.83	74	46.7	38.09	16.56	58.18	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	44.42	-29.58	74	48.34	40.08	13.11	57.11	100	0	P	H
		15720	41.81	-32.19	74	45.41	37.95	16.57	58.12	100	0	P	H
													H
													H
		10480	44.98	-29.02	74	48.9	40.08	13.11	57.11	100	0	P	V
		15720	42.08	-31.92	74	45.68	37.95	16.57	58.12	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (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)
802.11a CH 52 5260MHz		5112.95	50.52	-23.48	74	43.44	31.69	8.92	33.53	187	335	P	H
		5114	40.11	-13.89	54	33.03	31.69	8.92	33.53	187	335	A	H
	*	5260	99.61	-	-	92.35	31.81	8.99	33.54	187	335	P	H
	*	5260	94.12	-	-	86.86	31.81	8.99	33.54	187	335	A	H
		5371.23	48.61	-25.39	74	41.13	31.89	9.13	33.54	187	335	P	H
		5351.98	39.9	-14.1	54	32.48	31.88	9.08	33.54	187	335	A	H
		5144.9	51.59	-22.41	74	44.46	31.72	8.95	33.54	171	89	P	V
		5144.6	42.77	-11.23	54	35.64	31.72	8.95	33.54	171	89	A	V
	*	5258	107.65	-	-	100.4	31.8	8.99	33.54	171	89	P	V
	*	5258	101.07	-	-	93.82	31.8	8.99	33.54	171	89	A	V
		5362.54	50.88	-23.12	74	43.4	31.89	9.13	33.54	171	89	P	V
		5350	42.21	-11.79	54	34.79	31.88	9.08	33.54	171	89	A	V
802.11a CH 60 5300MHz		5113.4	49.29	-24.71	74	42.21	31.69	8.92	33.53	180	330	P	H
		5043.35	39.92	-14.08	54	32.92	31.64	8.89	33.53	180	330	A	H
	*	5298	99.71	-	-	92.37	31.84	9.04	33.54	180	330	P	H
	*	5298	93.85	-	-	86.51	31.84	9.04	33.54	180	330	A	H
		5351.87	49.65	-24.35	74	42.23	31.88	9.08	33.54	180	330	P	H
		5350	41.89	-12.11	54	34.47	31.88	9.08	33.54	180	330	A	H
		5112.5	50.37	-23.63	74	43.29	31.69	8.92	33.53	165	87	P	V
		5147.9	42.13	-11.87	54	35	31.72	8.95	33.54	165	87	A	V
	*	5302	107.88	-	-	100.54	31.84	9.04	33.54	165	87	P	V
	*	5302	101.08	-	-	93.74	31.84	9.04	33.54	165	87	A	V
		5351.43	55.53	-18.47	74	48.11	31.88	9.08	33.54	165	87	P	V
		5350	46.68	-7.32	54	39.26	31.88	9.08	33.54	165	87	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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)	
802.11a CH 64 5320MHz	*	5321	99.62	-	-	92.27	31.85	9.04	33.54	184	334	P	H	
	*	5321	93.61	-	-	86.26	31.85	9.04	33.54	184	334	A	H	
		5351.65	56.47	-17.53	74	49.05	31.88	9.08	33.54	184	334	P	H	
		5350	46.05	-7.95	54	38.63	31.88	9.08	33.54	184	334	A	H	
													H	
														H
	*	5319	108.71	-	-	101.36	31.85	9.04	33.54	163	138	P	V	
	*	5319	102.43	-	-	95.08	31.85	9.04	33.54	163	138	A	V	
		5352.42	59.77	-14.23	74	52.35	31.88	9.08	33.54	163	138	P	V	
		5350	50.99	-3.01	54	43.57	31.88	9.08	33.54	163	138	A	V	
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 2 5250~5350MHz

WIFI 802.11a (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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		10520	45.4	-28.6	74	49.25	40.11	13.14	57.1	100	0	P	H
		15780	41.27	-32.73	74	44.93	37.85	16.57	58.08	100	0	P	H
													H
													H
		10520	43.99	-30.01	74	47.84	40.11	13.14	57.1	100	0	P	V
		15780	41.95	-32.05	74	45.61	37.85	16.57	58.08	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	44.07	-29.93	74	47.83	40.16	13.2	57.12	100	0	P	H
		15900	39.95	-34.05	74	43.74	37.61	16.58	57.98	100	0	P	H
													H
													H
		10600	42.78	-31.22	74	46.54	40.16	13.2	57.12	100	0	P	V
		15900	40.4	-33.6	74	44.19	37.61	16.58	57.98	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	45.08	-28.92	74	48.8	40.18	13.23	57.13	100	0	P	H
		15960	40.37	-33.63	74	44.24	37.47	16.59	57.93	100	0	P	H
													H
													H
		10640	44.1	-29.9	74	47.82	40.18	13.23	57.13	100	0	P	V
		15960	40.54	-33.46	74	44.41	37.47	16.59	57.93	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11a (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)	
802.11a CH 100 5500MHz		5467.44	57.4	-16.6	74	49.76	31.97	9.22	33.55	183	331	P	H	
		5469.52	47.23	-6.77	54	39.59	31.97	9.22	33.55	183	331	A	H	
	*	5499	101.48	-	-	93.77	32	9.26	33.55	183	331	P	H	
	*	5499	94.43	-	-	86.72	32	9.26	33.55	183	331	A	H	
													H	
													H	
			5469.36	64.15	-9.85	74	56.51	31.97	9.22	33.55	161	91	P	V
			5469.52	53.48	-0.52	54	45.84	31.97	9.22	33.55	161	91	A	V
	*		5500	107.47	-	-	99.76	32	9.26	33.55	161	91	P	V
	*		5500	102.17	-	-	94.46	32	9.26	33.55	161	91	A	V
													V	
													V	
802.11a CH 116 5580MHz		5407.92	48.79	-25.21	74	41.25	31.92	9.17	33.55	173	332	P	H	
		5462.48	40.34	-13.66	54	32.71	31.96	9.22	33.55	173	332	A	H	
	*	5578	100.17	-	-	92.34	32.1	9.32	33.59	173	332	P	H	
	*	5578	94.86	-	-	87.03	32.1	9.32	33.59	173	332	A	H	
			5761.08	48.7	-25.3	74	40.55	32.36	9.44	33.65	173	332	P	H
			5754.68	40.13	-13.87	54	31.98	32.36	9.44	33.65	173	332	A	H
			5426.8	51.16	-22.84	74	43.61	31.93	9.17	33.55	159	85	P	V
			5464.4	42.21	-11.79	54	34.57	31.97	9.22	33.55	159	85	A	V
	*		5582	108.28	-	-	100.43	32.12	9.32	33.59	159	85	P	V
	*		5582	101.72	-	-	93.87	32.12	9.32	33.59	159	85	A	V
			5740.92	50.28	-23.72	74	42.15	32.34	9.44	33.65	159	85	P	V
			5725.32	40.87	-13.13	54	32.76	32.31	9.44	33.64	159	85	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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)
802.11a CH 140 5700MHz	*	5700	98.93	-	-	90.9	32.27	9.39	33.63	160	330	P	H
	*	5700	93.08	-	-	85.05	32.27	9.39	33.63	160	330	A	H
		5726.6	62.07	-11.93	74	53.96	32.31	9.44	33.64	160	330	P	H
		5727.08	47.29	-6.71	54	39.18	32.31	9.44	33.64	160	330	A	H
													H
													H
	*	5699	107.47	-	-	99.44	32.27	9.39	33.63	151	80	P	V
	*	5699	100.44	-	-	92.41	32.27	9.39	33.63	151	80	A	V
		5728.76	64.29	-9.71	74	56.18	32.31	9.44	33.64	151	80	P	V
		5725.56	53.73	-0.27	54	45.62	32.31	9.44	33.64	151	80	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11a (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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		11000	43.37	-30.63	74	46.69	40.4	13.48	57.2	100	0	P	H
		16500	40.84	-33.16	74	42.13	39	16.81	57.1	100	0	P	H
													H
													H
		11000	42.92	-31.08	74	46.24	40.4	13.48	57.2	100	0	P	V
		16500	40.83	-33.17	74	42.12	39	16.81	57.1	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	40.98	-33.02	74	44.17	40.27	13.64	57.1	100	0	P	H
		16740	41.8	-32.2	74	42.18	39.92	16.8	57.1	100	0	P	H
													H
													H
		11160	40.9	-33.1	74	44.09	40.27	13.64	57.1	100	0	P	V
		16740	42.16	-31.84	74	42.54	39.92	16.8	57.1	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	42.11	-31.89	74	45.12	40.08	13.87	56.96	100	0	P	H
		17100	43.05	-30.95	74	42.44	41.12	16.85	57.36	100	0	P	H
													H
													H
		11400	41.59	-32.41	74	44.6	40.08	13.87	56.96	100	0	P	V
		17100	42.62	-31.38	74	42.01	41.12	16.85	57.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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 140 5700MHz	*	5702	99.74	-	-	91.69	32.29	9.39	33.63	149	0	P	H
	*	5702	92.92	-	-	84.87	32.29	9.39	33.63	149	0	A	H
		5726.12	56.31	-17.69	74	48.2	32.31	9.44	33.64	149	0	P	H
		5725.64	47.01	-6.99	54	38.9	32.31	9.44	33.64	149	0	A	H
													H
													H
	*	5700	104.36	-	-	96.33	32.27	9.39	33.63	141	107	P	V
	*	5700	97.37	-	-	89.34	32.27	9.39	33.63	141	107	A	V
		5728.44	62.87	-11.13	74	54.76	32.31	9.44	33.64	141	107	P	V
		5726.84	50.79	-3.21	54	42.68	32.31	9.44	33.64	141	107	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 140 5700MHz		11400	43.01	-30.99	74	46.02	40.08	13.87	56.96	100	0	P	H
		17100	43.52	-30.48	74	42.91	41.12	16.85	57.36	100	0	P	H
													H
													H
		11400	43.05	-30.95	74	46.06	40.08	13.87	56.96	100	0	P	V
		17100	43.16	-30.84	74	42.55	41.12	16.85	57.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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 102 5510MHz		5462.32	57.07	-16.93	74	49.44	31.96	9.22	33.55	150	0	P	H
		5470	48.18	-5.82	54	40.54	31.97	9.22	33.55	150	0	A	H
	*	5510	95.54	-	-	87.84	32	9.26	33.56	150	0	P	H
	*	5510	87.83	-	-	80.13	32	9.26	33.56	150	0	A	H
		5750.92	48.7	-25.3	74	40.57	32.34	9.44	33.65	150	0	P	H
		5727.48	41.06	-12.94	54	32.95	32.31	9.44	33.64	150	0	A	H
		5469.04	62.34	-11.66	74	54.7	31.97	9.22	33.55	149	144	P	V
		5469.36	53.74	-0.26	54	46.1	31.97	9.22	33.55	149	144	A	V
	*	5510	100.07	-	-	92.37	32	9.26	33.56	149	144	P	V
	*	5510	93.29	-	-	85.59	32	9.26	33.56	149	144	A	V
		5747.96	49.15	-24.85	74	41.02	32.34	9.44	33.65	149	144	P	V
		5754.6	40.75	-13.25	54	32.6	32.36	9.44	33.65	149	144	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

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.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		11020	43.25	-30.75	74	46.57	40.39	13.48	57.19	100	0	P	H
		16530	40.22	-33.78	74	41.38	39.13	16.81	57.1	100	0	P	H
													H
													H
		11020	43.36	-30.64	74	46.68	40.39	13.48	57.19	100	0	P	V
		16530	39.85	-34.15	74	41.01	39.13	16.81	57.1	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 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)	
802.11a LF		57.81	20.47	-19.53	40	45.69	5.54	1.04	31.8	-	-	P	H	
		131.52	29.75	-13.75	43.5	48.59	11.48	1.46	31.78	-	-	P	H	
		194.7	30.72	-12.78	43.5	52.38	8.48	1.64	31.78	106	253	P	H	
		372.1	29.9	-16.1	46	44.55	14.82	2.32	31.79	-	-	P	H	
		539.4	29.99	-16.01	46	40.71	18.46	2.77	31.95	-	-	P	H	
		647.9	23.98	-22.02	46	33.9	19.1	3.02	32.04	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			39.99	30.63	-9.37	40	49.07	12.71	0.67	31.82	100	47	P	V
			132.87	27.15	-16.35	43.5	46.1	11.37	1.46	31.78	-	-	P	V
			259.23	25.64	-20.36	46	42.55	12.92	1.94	31.77	-	-	P	V
			367.9	28.31	-17.69	46	43	14.78	2.32	31.79	-	-	P	V
			447	21.83	-24.17	46	34.66	16.44	2.57	31.84	-	-	P	V
			548.5	30.01	-15.99	46	40.53	18.67	2.77	31.96	-	-	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		(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”.



Band 1 5150~5250MHz

WIFI 802.11a (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.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 36 5180MHz		5149.1	60.26	-13.74	74	53.13	31.72	8.95	33.54	138	14	P	H	
		5150	49.75	-4.25	54	42.62	31.72	8.95	33.54	138	14	A	H	
	*	5180	106.31	-	-	99.13	31.75	8.97	33.54	138	14	P	H	
	*	5180	99.17	-	-	91.99	31.75	8.97	33.54	138	14	A	H	
													H	
													H	
			5141.6	54.93	-19.07	74	47.8	31.72	8.95	33.54	150	160	P	V
			5150	46.22	-7.78	54	39.09	31.72	8.95	33.54	150	160	A	V
	*		5182	102.73	-	-	95.55	31.75	8.97	33.54	150	160	P	V
	*		5182	96.05	-	-	88.87	31.75	8.97	33.54	150	160	A	V
													V	
													V	
802.11a CH 44 5220MHz		5060.15	51.12	-22.88	74	44.11	31.65	8.89	33.53	135	13	P	H	
		5146.25	43.52	-10.48	54	36.39	31.72	8.95	33.54	135	13	A	H	
	*	5222	105.12	-	-	97.91	31.77	8.98	33.54	135	13	P	H	
	*	5222	99.44	-	-	92.23	31.77	8.98	33.54	135	13	A	H	
			5456.59	49.02	-24.98	74	41.39	31.96	9.22	33.55	135	13	P	H
			5370.9	41.19	-12.81	54	33.71	31.89	9.13	33.54	135	13	A	H
			5105.9	50.08	-23.92	74	43	31.69	8.92	33.53	156	162	P	V
			5143.7	41.57	-12.43	54	34.44	31.72	8.95	33.54	156	162	A	V
	*		5218	102.13	-	-	94.92	31.77	8.98	33.54	156	162	P	V
	*		5218	96.02	-	-	88.81	31.77	8.98	33.54	156	162	A	V
			5422.49	48.22	-25.78	74	40.67	31.93	9.17	33.55	156	162	P	V
			5350	40.27	-13.73	54	32.85	31.88	9.08	33.54	156	162	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 48 5240MHz		5049.5	50.33	-23.67	74	43.33	31.64	8.89	33.53	121	8	P	H
		5150	42.17	-11.83	54	35.04	31.72	8.95	33.54	121	8	A	H
	*	5242	104.83	-	-	97.58	31.8	8.99	33.54	121	8	P	H
	*	5242	98.87	-	-	91.62	31.8	8.99	33.54	121	8	A	H
		5362.32	49.32	-24.68	74	41.84	31.89	9.13	33.54	121	8	P	H
		5350.66	41.75	-12.25	54	34.33	31.88	9.08	33.54	121	8	A	H
		5011.55	49.68	-24.32	74	42.74	31.61	8.86	33.53	147	161	P	V
		5149.85	41.06	-12.94	54	33.93	31.72	8.95	33.54	147	161	A	V
	*	5238	102.54	-	-	95.31	31.79	8.98	33.54	147	161	P	V
	*	5238	96.16	-	-	88.93	31.79	8.98	33.54	147	161	A	V
		5416	48.28	-25.72	74	40.73	31.93	9.17	33.55	147	161	P	V
		5353.41	40.28	-13.72	54	32.86	31.88	9.08	33.54	147	161	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10360	43.72	-30.28	74	47.87	39.94	13.09	57.18	100	0	P	H
		15540	41.89	-32.11	74	45.28	38.33	16.55	58.27	100	0	P	H
													H
													H
		10360	44.95	-29.05	74	49.1	39.94	13.09	57.18	100	0	P	V
		15540	41.7	-32.3	74	45.09	38.33	16.55	58.27	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	43.31	-30.69	74	47.32	40.02	13.11	57.14	100	0	P	H
		15660	41.96	-32.04	74	45.49	38.09	16.56	58.18	100	0	P	H
													H
													H
		10440	43.47	-30.53	74	47.48	40.02	13.11	57.14	100	0	P	V
		15660	42.22	-31.78	74	45.75	38.09	16.56	58.18	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	45.35	-28.65	74	49.27	40.08	13.11	57.11	100	0	P	H
		15720	41.78	-32.22	74	45.38	37.95	16.57	58.12	100	0	P	H
													H
													H
		10480	44.82	-29.18	74	48.74	40.08	13.11	57.11	100	0	P	V
		15720	40.9	-33.1	74	44.5	37.95	16.57	58.12	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5135	49.86	-24.14	74	42.74	31.71	8.95	33.54	133	14	P	H
		5142.5	41.74	-12.26	54	34.61	31.72	8.95	33.54	133	14	A	H
	*	5262	105.72	-	-	98.46	31.81	8.99	33.54	133	14	P	H
	*	5262	99.25	-	-	91.99	31.81	8.99	33.54	133	14	A	H
		5350.22	50.26	-23.74	74	42.84	31.88	9.08	33.54	133	14	P	H
		5350.55	42.46	-11.54	54	35.04	31.88	9.08	33.54	133	14	A	H
		5041.25	50.7	-23.3	74	43.73	31.64	8.86	33.53	157	161	P	V
		5114.15	40.62	-13.38	54	33.54	31.69	8.92	33.53	157	161	A	V
	*	5258	102.67	-	-	95.42	31.8	8.99	33.54	157	161	P	V
	*	5258	96.2	-	-	88.95	31.8	8.99	33.54	157	161	A	V
		5357.59	48.17	-25.83	74	40.75	31.88	9.08	33.54	157	161	P	V
		5350.66	41.08	-12.92	54	33.66	31.88	9.08	33.54	157	161	A	V
802.11a CH 60 5300MHz		5079.5	50.12	-23.88	74	43.09	31.67	8.89	33.53	133	11	P	H
		5079.2	41.38	-12.62	54	34.35	31.67	8.89	33.53	133	11	A	H
	*	5298	105.03	-	-	97.69	31.84	9.04	33.54	133	11	P	H
	*	5298	99.26	-	-	91.92	31.84	9.04	33.54	133	11	A	H
		5350.99	53.93	-20.07	74	46.51	31.88	9.08	33.54	133	11	P	H
		5350.33	45.09	-8.91	54	37.67	31.88	9.08	33.54	133	11	A	H
		5087	49.88	-24.12	74	42.82	31.67	8.92	33.53	153	160	P	V
		5107.85	40.44	-13.56	54	33.36	31.69	8.92	33.53	153	160	A	V
	*	5302	102.41	-	-	95.07	31.84	9.04	33.54	153	160	P	V
	*	5302	96.35	-	-	89.01	31.84	9.04	33.54	153	160	A	V
		5356.93	50.45	-23.55	74	43.03	31.88	9.08	33.54	153	160	P	V
		5350	42.66	-11.34	54	35.24	31.88	9.08	33.54	153	160	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 64 5320MHz	*	5322	105.26	-	-	97.87	31.85	9.08	33.54	121	13	P	H
	*	5322	98.77	-	-	91.38	31.85	9.08	33.54	121	13	A	H
		5353.41	60.76	-13.24	74	53.34	31.88	9.08	33.54	121	13	P	H
		5350.22	50.14	-3.86	54	42.72	31.88	9.08	33.54	121	13	A	H
													H
													H
	*	5318	102.15	-	-	94.8	31.85	9.04	33.54	124	173	P	V
	*	5318	96.38	-	-	89.03	31.85	9.04	33.54	124	173	A	V
		5352.42	56.02	-17.98	74	48.6	31.88	9.08	33.54	124	173	P	V
		5350	47.71	-6.29	54	40.29	31.88	9.08	33.54	124	173	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (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.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		10520	43.66	-30.34	74	47.51	40.11	13.14	57.1	100	0	P	H
		15780	40.69	-33.31	74	44.35	37.85	16.57	58.08	100	0	P	H
													H
													H
		10520	43.89	-30.11	74	47.74	40.11	13.14	57.1	100	0	P	V
		15780	40.72	-33.28	74	44.38	37.85	16.57	58.08	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	43.8	-30.2	74	47.56	40.16	13.2	57.12	100	0	P	H
		15900	39.66	-34.34	74	43.45	37.61	16.58	57.98	100	0	P	H
													H
													H
		10600	42.85	-31.15	74	46.61	40.16	13.2	57.12	100	0	P	V
		15900	39.16	-34.84	74	42.95	37.61	16.58	57.98	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	43.11	-30.89	74	46.83	40.18	13.23	57.13	100	0	P	H
		15960	39.37	-34.63	74	43.24	37.47	16.59	57.93	100	0	P	H
													H
													H
		10640	43.45	-30.55	74	47.17	40.18	13.23	57.13	100	0	P	V
		15960	40.09	-33.91	74	43.96	37.47	16.59	57.93	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11a (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.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 100 5500MHz		5469.04	58.8	-15.2	74	51.16	31.97	9.22	33.55	136	6	P	H	
		5470	51.8	-2.2	54	44.16	31.97	9.22	33.55	136	6	A	H	
	*	5498	104.84	-	-	97.13	32	9.26	33.55	136	6	P	H	
	*	5498	98.58	-	-	90.87	32	9.26	33.55	136	6	A	H	
													H	
													H	
			5468.4	58.8	-15.2	74	51.16	31.97	9.22	33.55	144	171	P	V
			5469.84	49.05	-4.95	54	41.41	31.97	9.22	33.55	144	171	A	V
	*		5498	102.54	-	-	94.83	32	9.26	33.55	144	171	P	V
	*		5498	95.96	-	-	88.25	32	9.26	33.55	144	171	A	V
													V	
													V	
802.11a CH 116 5580MHz		5379.76	48.9	-25.1	74	41.41	31.91	9.13	33.55	150	11	P	H	
		5352.24	41.11	-12.89	54	33.69	31.88	9.08	33.54	150	11	A	H	
	*	5578	105.96	-	-	98.13	32.1	9.32	33.59	150	11	P	H	
	*	5578	98.62	-	-	90.79	32.1	9.32	33.59	150	11	A	H	
			5754.76	48.69	-25.31	74	40.54	32.36	9.44	33.65	150	11	P	H
			5726.92	40.11	-13.89	54	32	32.31	9.44	33.64	150	11	A	H
			5351.44	49.46	-24.54	74	42.04	31.88	9.08	33.54	145	169	P	V
			5352.56	39.85	-14.15	54	32.43	31.88	9.08	33.54	145	169	A	V
	*		5578	100.8	-	-	92.97	32.1	9.32	33.59	145	169	P	V
	*		5578	96.17	-	-	88.34	32.1	9.32	33.59	145	169	A	V
			5762.52	48.62	-25.38	74	40.42	32.36	9.49	33.65	145	169	P	V
			5764.28	40.06	-13.94	54	31.86	32.36	9.49	33.65	145	169	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 140 5700MHz	*	5701	101.59	-	-	93.54	32.29	9.39	33.63	138	12	P	H
	*	5701	95.53	-	-	87.48	32.29	9.39	33.63	138	12	A	H
		5727.48	60.18	-13.82	74	52.07	32.31	9.44	33.64	138	12	P	H
		5725.08	52.24	-1.76	54	44.13	32.31	9.44	33.64	138	12	A	H
													H
													H
	*	5698	98.88	-	-	90.85	32.27	9.39	33.63	161	13	P	V
	*	5698	91.65	-	-	83.62	32.27	9.39	33.63	161	13	A	V
		5726.04	63.42	-10.58	74	55.31	32.31	9.44	33.64	161	13	P	V
		5725.48	49.33	-4.67	54	41.22	32.31	9.44	33.64	161	13	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11a (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.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		11000	44.12	-29.88	74	47.44	40.4	13.48	57.2	100	0	P	H
		16500	41.45	-32.55	74	42.74	39	16.81	57.1	100	0	P	H
													H
													H
		11000	42.69	-31.31	74	46.01	40.4	13.48	57.2	100	0	P	V
		16500	42.05	-31.95	74	43.34	39	16.81	57.1	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	42.89	-31.11	74	46.08	40.27	13.64	57.1	100	0	P	H
		16740	44.28	-29.72	74	44.66	39.92	16.8	57.1	100	0	P	H
													H
													H
		11160	40.61	-33.39	74	43.8	40.27	13.64	57.1	100	0	P	V
		16740	42.6	-31.4	74	42.98	39.92	16.8	57.1	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	41.49	-32.51	74	44.5	40.08	13.87	56.96	100	0	P	H
		17100	43.41	-30.59	74	42.8	41.12	16.85	57.36	100	0	P	H
													H
													H
		11400	41.71	-32.29	74	44.72	40.08	13.87	56.96	100	0	P	V
		17100	43.84	-30.16	74	43.23	41.12	16.85	57.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 140 5700MHz	*	5700	100.82	-	-	92.79	32.27	9.39	33.63	167	16	P	H
	*	5700	93.9	-	-	85.87	32.27	9.39	33.63	167	16	A	H
		5727.24	60.09	-13.91	74	51.98	32.31	9.44	33.64	167	16	P	H
		5725.32	52.25	-1.75	54	44.14	32.31	9.44	33.64	167	16	A	H
													H
													H
	*	5700	101.46	-	-	93.43	32.27	9.39	33.63	175	39	P	V
	*	5700	94.53	-	-	86.5	32.27	9.39	33.63	175	39	A	V
		5728.76	60.13	-13.87	74	52.02	32.31	9.44	33.64	175	39	P	V
		5725.16	52.22	-1.78	54	44.11	32.31	9.44	33.64	175	39	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 140 5700MHz		11400	44.01	-29.99	74	47.02	40.08	13.87	56.96	100	0	P	H
		17100	43.7	-30.3	74	43.09	41.12	16.85	57.36	100	0	P	H
													H
													H
		11400	42.73	-31.27	74	45.74	40.08	13.87	56.96	100	0	P	V
		17100	42.69	-31.31	74	42.08	41.12	16.85	57.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		5465.04	62.21	-11.79	74	54.57	31.97	9.22	33.55	142	24	P	H
		5468.88	51.07	-2.93	54	43.43	31.97	9.22	33.55	142	24	A	H
	*	5510	96.38	-	-	88.68	32	9.26	33.56	142	24	P	H
	*	5510	90.08	-	-	82.38	32	9.26	33.56	142	24	A	H
		5745	49.14	-24.86	74	41.01	32.34	9.44	33.65	142	24	P	H
		5758.92	40.78	-13.22	54	32.63	32.36	9.44	33.65	142	24	A	H
		5463.92	59.2	-14.8	74	51.56	31.97	9.22	33.55	166	45	P	V
		5468.56	51.26	-2.74	54	43.62	31.97	9.22	33.55	166	45	A	V
	*	5510	97.19	-	-	89.49	32	9.26	33.56	166	45	P	V
	*	5510	90.51	-	-	82.81	32	9.26	33.56	166	45	A	V
		5754.44	48.84	-25.16	74	40.69	32.36	9.44	33.65	166	45	P	V
		5731	40.66	-13.34	54	32.56	32.31	9.44	33.65	166	45	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		11020	43.37	-30.63	74	46.69	40.39	13.48	57.19	100	0	P	H
		16530	40.19	-33.81	74	41.35	39.13	16.81	57.1	100	0	P	H
													H
													H
		11020	43.33	-30.67	74	46.65	40.39	13.48	57.19	100	0	P	V
		16530	41.3	-32.7	74	42.46	39.13	16.81	57.1	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 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.		
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a LF		39.99	27.52	-12.48	40	45.96	12.71	0.67	31.82	123	12	P	H	
		132.06	30.36	-13.14	43.5	49.24	11.44	1.46	31.78	-	-	P	H	
		258.96	29.35	-16.65	46	46.28	12.9	1.94	31.77	-	-	P	H	
		368.6	29.93	-16.07	46	44.61	14.79	2.32	31.79	-	-	P	H	
		432.3	29.25	-16.75	46	42.22	16.45	2.41	31.83	-	-	P	H	
		539.4	31.13	-14.87	46	41.85	18.46	2.77	31.95	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			39.99	29.19	-10.81	40	47.63	12.71	0.67	31.82	111	99	P	V
			131.79	27.55	-15.95	43.5	46.41	11.46	1.46	31.78	-	-	P	V
			200.91	25.28	-18.22	43.5	46.86	8.56	1.64	31.78	-	-	P	V
			367.9	28.63	-17.37	46	43.32	14.78	2.32	31.79	-	-	P	V
			432.3	29.4	-16.6	46	42.37	16.45	2.41	31.83	-	-	P	V
			540.1	31.2	-14.8	46	41.88	18.5	2.77	31.95	-	-	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.	
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”.



Band 1 5150~5250MHz

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11n HT20 CH 36 5180MHz		5142.05	50.1	-23.9	74	42.97	31.72	8.95	33.54	140	113	P	H	
		5149.7	42.33	-11.67	54	35.2	31.72	8.95	33.54	140	113	A	H	
	*	5178	96.05	-	-	88.87	31.75	8.97	33.54	140	113	P	H	
	*	5178	89.58	-	-	82.4	31.75	8.97	33.54	140	113	A	H	
													H	
													H	
			5140.4	57.3	-16.7	74	50.17	31.72	8.95	33.54	139	97	P	V
			5149.4	48.45	-5.55	54	41.32	31.72	8.95	33.54	139	97	A	V
		*	5182	105.8	-	-	98.62	31.75	8.97	33.54	139	97	P	V
		*	5182	98.73	-	-	91.55	31.75	8.97	33.54	139	97	A	V
													V	
													V	
802.11n HT20 CH 44 5220MHz		5076.65	48.66	-25.34	74	41.63	31.67	8.89	33.53	128	103	P	H	
		5137.25	40.33	-13.67	54	33.21	31.71	8.95	33.54	128	103	A	H	
	*	5221	97.95	-	-	90.74	31.77	8.98	33.54	128	103	P	H	
	*	5221	91.45	-	-	84.24	31.77	8.98	33.54	128	103	A	H	
			5402.58	47.93	-26.07	74	40.39	31.92	9.17	33.55	128	103	P	H
			5375.41	39.72	-14.28	54	32.25	31.89	9.13	33.55	128	103	A	H
			5134.1	52.28	-21.72	74	45.16	31.71	8.95	33.54	174	137	P	V
			5147.9	43.37	-10.63	54	36.24	31.72	8.95	33.54	174	137	A	V
		*	5218	105.48	-	-	98.27	31.77	8.98	33.54	174	137	P	V
		*	5218	99.36	-	-	92.15	31.77	8.98	33.54	174	137	A	V
		5350.33	49.16	-24.84	74	41.74	31.88	9.08	33.54	174	137	P	V	
		5353.08	41.22	-12.78	54	33.8	31.88	9.08	33.54	174	137	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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)
802.11n HT20 CH 48 5240MHz		5094.65	49.85	-24.15	74	42.78	31.68	8.92	33.53	137	99	P	H
		5066.75	40.59	-13.41	54	33.58	31.65	8.89	33.53	137	99	A	H
	*	5238	99.96	-	-	92.73	31.79	8.98	33.54	137	99	P	H
	*	5238	91.91	-	-	84.68	31.79	8.98	33.54	137	99	A	H
		5408.3	48.23	-25.77	74	40.69	31.92	9.17	33.55	137	99	P	H
		5450.65	39.77	-14.23	54	32.14	31.96	9.22	33.55	137	99	A	H
		5138.75	50.81	-23.19	74	43.69	31.71	8.95	33.54	114	55	P	V
		5134.85	42.22	-11.78	54	35.1	31.71	8.95	33.54	114	55	A	V
	*	5242	104.52	-	-	97.27	31.8	8.99	33.54	114	55	P	V
	*	5242	97.89	-	-	90.64	31.8	8.99	33.54	114	55	A	V
		5357.59	49.43	-24.57	74	42.01	31.88	9.08	33.54	114	55	P	V
	5373.65	40.47	-13.53	54	33	31.89	9.13	33.55	114	55	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 36 5180MHz		10360	43.55	-30.45	74	47.7	39.94	13.09	57.18	100	0	P	H
		15540	42.51	-31.49	74	45.9	38.33	16.55	58.27	100	0	P	H
													H
													H
		10360	43.13	-30.87	74	47.28	39.94	13.09	57.18	100	0	P	V
		15540	41.63	-32.37	74	45.02	38.33	16.55	58.27	100	0	P	V
													V
802.11n HT20 CH 44 5220MHz		10440	44.46	-29.54	74	48.47	40.02	13.11	57.14	100	0	P	H
		15660	41.72	-32.28	74	45.25	38.09	16.56	58.18	100	0	P	H
													H
													H
		10440	43.53	-30.47	74	47.54	40.02	13.11	57.14	100	0	P	V
		15660	42.06	-31.94	74	45.59	38.09	16.56	58.18	100	0	P	V
													V
802.11n HT20 CH 48 5240MHz		10480	43.99	-30.01	74	47.91	40.08	13.11	57.11	100	0	P	H
		15720	41.54	-32.46	74	45.14	37.95	16.57	58.12	100	0	P	H
													H
													H
		10480	44.96	-29.04	74	48.88	40.08	13.11	57.11	100	0	P	V
		15720	41.18	-32.82	74	44.78	37.95	16.57	58.12	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 38 5190MHz		5145.05	57.95	-16.05	74	50.82	31.72	8.95	33.54	203	360	P	H
		5149.55	46.01	-7.99	54	38.88	31.72	8.95	33.54	203	360	A	H
	*	5192	93.79	-	-	86.6	31.76	8.97	33.54	203	360	P	H
	*	5192	87.78	-	-	80.59	31.76	8.97	33.54	203	360	A	H
		5365.07	48.31	-25.69	74	40.83	31.89	9.13	33.54	203	360	P	H
		5454.06	39.87	-14.13	54	32.24	31.96	9.22	33.55	203	360	A	H
		5145.35	60.59	-13.41	74	53.46	31.72	8.95	33.54	100	33	P	V
		5150	49.8	-4.2	54	42.67	31.72	8.95	33.54	100	33	A	V
	*	5188	97.72	-	-	90.54	31.75	8.97	33.54	100	33	P	V
	*	5188	91.32	-	-	84.14	31.75	8.97	33.54	100	33	A	V
		5454.72	47.78	-26.22	74	40.15	31.96	9.22	33.55	100	33	P	V
		5460	39.88	-14.12	54	32.25	31.96	9.22	33.55	100	33	A	V
802.11n HT40 CH 46 5230MHz		5141.3	49.45	-24.55	74	42.32	31.72	8.95	33.54	144	134	P	H
		5143.85	40.99	-13.01	54	33.86	31.72	8.95	33.54	144	134	A	H
	*	5232	93.93	-	-	86.7	31.79	8.98	33.54	144	134	P	H
	*	5232	87.85	-	-	80.62	31.79	8.98	33.54	144	134	A	H
		5404.12	48.72	-25.28	74	41.18	31.92	9.17	33.55	144	134	P	H
		5420.95	39.98	-14.02	54	32.43	31.93	9.17	33.55	144	134	A	H
		5148.65	53.64	-20.36	74	46.51	31.72	8.95	33.54	138	60	P	V
		5147.6	45.93	-8.07	54	38.8	31.72	8.95	33.54	138	60	A	V
	*	5232	102.45	-	-	95.22	31.79	8.98	33.54	138	60	P	V
	*	5232	95.89	-	-	88.66	31.79	8.98	33.54	138	60	A	V
		5371.89	49.04	-24.96	74	41.56	31.89	9.13	33.54	138	60	P	V
		5362.21	41.28	-12.72	54	33.8	31.89	9.13	33.54	138	60	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 38 5190MHz		10380	43.72	-30.28	74	47.84	39.96	13.09	57.17	100	0	P	H
		15570	42.05	-31.95	74	45.48	38.26	16.55	58.24	100	0	P	H
													H
													H
		10380	43.99	-30.01	74	48.11	39.96	13.09	57.17	100	0	P	V
		15570	40.87	-33.13	74	44.3	38.26	16.55	58.24	100	0	P	V
													V
802.11n HT40 CH 46 5230MHz		10460	43.37	-30.63	74	47.35	40.04	13.11	57.13	100	0	P	H
		15690	42.22	-31.78	74	45.79	38.02	16.56	58.15	100	0	P	H
													H
													H
		10460	45.55	-28.45	74	49.53	40.04	13.11	57.13	100	0	P	V
		15690	41.66	-32.34	74	45.23	38.02	16.56	58.15	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		5106.5	49.32	-24.68	74	42.24	31.69	8.92	33.53	178	37	P	H
		5063.45	40.54	-13.46	54	33.53	31.65	8.89	33.53	178	37	A	H
	*	5258	99.72	-	-	92.47	31.8	8.99	33.54	178	37	P	H
	*	5258	92.79	-	-	85.54	31.8	8.99	33.54	178	37	A	H
		5457.69	48.11	-25.89	74	40.48	31.96	9.22	33.55	178	37	P	H
		5443.94	39.93	-14.07	54	32.31	31.95	9.22	33.55	178	37	A	H
		5108.3	51.4	-22.6	74	44.32	31.69	8.92	33.53	136	48	P	V
		5149.7	42.36	-11.64	54	35.23	31.72	8.95	33.54	136	48	A	V
	*	5258	105.07	-	-	97.82	31.8	8.99	33.54	136	48	P	V
	*	5258	98.86	-	-	91.61	31.8	8.99	33.54	136	48	A	V
		5371.56	49.56	-24.44	74	42.08	31.89	9.13	33.54	136	48	P	V
		5352.97	41.41	-12.59	54	33.99	31.88	9.08	33.54	136	48	A	V
802.11n HT20 CH 60 5300MHz		5103.05	49.99	-24.01	74	42.92	31.68	8.92	33.53	212	356	P	H
		5070.8	40.27	-13.73	54	33.26	31.65	8.89	33.53	212	356	A	H
	*	5298	97.16	-	-	89.82	31.84	9.04	33.54	212	356	P	H
	*	5298	90.86	-	-	83.52	31.84	9.04	33.54	212	356	A	H
		5418.09	49.13	-24.87	74	41.58	31.93	9.17	33.55	212	356	P	H
		5350	40.75	-13.25	54	33.33	31.88	9.08	33.54	212	356	A	H
		5138.3	49.75	-24.25	74	42.63	31.71	8.95	33.54	113	26	P	V
		5149.1	41.96	-12.04	54	34.83	31.72	8.95	33.54	113	26	A	V
	*	5298	103.68	-	-	96.34	31.84	9.04	33.54	113	26	P	V
	*	5298	97.1	-	-	89.76	31.84	9.04	33.54	113	26	A	V
		5354.4	50.67	-23.33	74	43.25	31.88	9.08	33.54	113	26	P	V
		5351.1	43.32	-10.68	54	35.9	31.88	9.08	33.54	113	26	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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)	
802.11n HT20 CH 64 5320MHz	*	5318	97.56	-	-	90.21	31.85	9.04	33.54	159	121	P	H	
	*	5318	91.51	-	-	84.16	31.85	9.04	33.54	159	121	A	H	
		5351.76	51.91	-22.09	74	44.49	31.88	9.08	33.54	159	121	P	H	
		5350	42.55	-11.45	54	35.13	31.88	9.08	33.54	159	121	A	H	
													H	
														H
	*	5318	103.64	-	-	96.29	31.85	9.04	33.54	143	82	P	V	
	*	5318	96.68	-	-	89.33	31.85	9.04	33.54	143	82	A	V	
		5353.41	54.01	-19.99	74	46.59	31.88	9.08	33.54	143	82	P	V	
		5350	46.19	-7.81	54	38.77	31.88	9.08	33.54	143	82	A	V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 2 5250~5350MHz

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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		10520	44.41	-29.59	74	48.26	40.11	13.14	57.1	100	0	P	H
		15780	41.66	-32.34	74	45.32	37.85	16.57	58.08	100	0	P	H
													H
													H
		10520	44.24	-29.76	74	48.09	40.11	13.14	57.1	100	0	P	V
		15780	40.75	-33.25	74	44.41	37.85	16.57	58.08	100	0	P	V
													V
802.11n HT20 CH 60 5300MHz		10600	43.9	-30.1	74	47.66	40.16	13.2	57.12	100	0	P	H
		15900	40.23	-33.77	74	44.02	37.61	16.58	57.98	100	0	P	H
													H
													H
		10600	42.98	-31.02	74	46.74	40.16	13.2	57.12	100	0	P	V
		15900	40.65	-33.35	74	44.44	37.61	16.58	57.98	100	0	P	V
													V
802.11n HT20 CH 64 5320MHz		10640	44.06	-29.94	74	47.78	40.18	13.23	57.13	100	0	P	H
		15960	39.76	-34.24	74	43.63	37.47	16.59	57.93	100	0	P	H
													H
													H
		10640	43.61	-30.39	74	47.33	40.18	13.23	57.13	100	0	P	V
		15960	39.18	-34.82	74	43.05	37.47	16.59	57.93	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 54 5270MHz		5141.9	48.63	-25.37	74	41.5	31.72	8.95	33.54	143	111	P	H
		5147.9	40.63	-13.37	54	33.5	31.72	8.95	33.54	143	111	A	H
	*	5268	94.54	-	-	87.28	31.81	8.99	33.54	143	111	P	H
	*	5268	87.49	-	-	80.23	31.81	8.99	33.54	143	111	A	H
		5441.74	48.57	-25.43	74	40.95	31.95	9.22	33.55	143	111	P	H
		5352.31	40.23	-13.77	54	32.81	31.88	9.08	33.54	143	111	A	H
		5148.95	50.62	-23.38	74	43.49	31.72	8.95	33.54	166	109	P	V
		5148.95	42.98	-11.02	54	35.85	31.72	8.95	33.54	166	109	A	V
	*	5268	101.35	-	-	94.09	31.81	8.99	33.54	166	109	P	V
	*	5268	95.3	-	-	88.04	31.81	8.99	33.54	166	109	P	V
		5355.28	51.24	-22.76	74	43.82	31.88	9.08	33.54	166	109	P	V
		5350.55	43.56	-10.44	54	36.14	31.88	9.08	33.54	166	109	A	V
802.11n HT40 CH 62 5310MHz		5093.75	50.75	-23.25	74	43.68	31.68	8.92	33.53	151	109	P	H
		5093.75	40.6	-13.4	54	33.53	31.68	8.92	33.53	151	109	A	H
	*	5308	92.82	-	-	85.48	31.84	9.04	33.54	151	109	P	H
	*	5308	87.62	-	-	80.28	31.84	9.04	33.54	151	109	A	H
		5353.41	57.59	-16.41	74	50.17	31.88	9.08	33.54	151	109	P	H
		5351.21	45.09	-8.91	54	37.67	31.88	9.08	33.54	151	109	A	H
		5145.65	50.67	-23.33	74	43.54	31.72	8.95	33.54	157	144	P	V
		5149.7	42.26	-11.74	54	35.13	31.72	8.95	33.54	157	144	A	V
	*	5310	102.27	-	-	94.92	31.85	9.04	33.54	157	144	P	V
	*	5310	95.3	-	-	87.95	31.85	9.04	33.54	157	144	A	V
		5355.72	63.05	-10.95	74	55.63	31.88	9.08	33.54	157	144	P	V
		5351.32	52.71	-1.29	54	45.29	31.88	9.08	33.54	157	144	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 54 5270MHz		10540	43.38	-30.62	74	47.23	40.12	13.14	57.11	100	0	P	H
		15810	41.48	-32.52	74	45.18	37.78	16.57	58.05	100	0	P	H
													H
													H
		10540	43.65	-30.35	74	47.5	40.12	13.14	57.11	100	0	P	V
		15810	41.4	-32.6	74	45.1	37.78	16.57	58.05	100	0	P	V
													V
802.11n HT40 CH 62 5310MHz		10620	43.7	-30.3	74	47.45	40.17	13.2	57.12	100	0	P	H
		15930	38.9	-35.1	74	42.74	37.54	16.58	57.96	100	0	P	H
													H
													H
		10620	43.53	-30.47	74	47.28	40.17	13.2	57.12	100	0	P	V
		15930	38.81	-35.19	74	42.65	37.54	16.58	57.96	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11n HT20 CH 100 5500MHz		5465.36	48.91	-25.09	74	41.27	31.97	9.22	33.55	141	96	P	H	
		5463.12	41.75	-12.25	54	34.11	31.97	9.22	33.55	141	96	A	H	
	*	5502	98.5	-	-	90.8	32	9.26	33.56	141	96	P	H	
	*	5502	90.67	-	-	82.97	32	9.26	33.56	141	96	A	H	
													H	
													H	
			5468.24	59.04	-14.96	74	51.4	31.97	9.22	33.55	175	126	P	V
			5470	50.78	-3.22	54	43.14	31.97	9.22	33.55	175	126	A	V
	*		5502	106.85	-	-	99.15	32	9.26	33.56	175	126	P	V
	*		5502	99.74	-	-	92.04	32	9.26	33.56	175	126	A	V
													V	
													V	
802.11n HT20 CH 116 5580MHz		5467.28	49.72	-24.28	74	42.08	31.97	9.22	33.55	176	32	P	H	
		5467.76	40.44	-13.56	54	32.8	31.97	9.22	33.55	176	32	A	H	
	*	5578	98.68	-	-	90.85	32.1	9.32	33.59	176	32	P	H	
	*	5578	92.09	-	-	84.26	32.1	9.32	33.59	176	32	A	H	
			5750.36	49.37	-24.63	74	41.24	32.34	9.44	33.65	176	32	P	H
			5761.56	40.56	-13.44	54	32.36	32.36	9.49	33.65	176	32	A	H
			5432.08	50.05	-23.95	74	42.48	31.95	9.17	33.55	149	167	P	V
			5458.16	42.56	-11.44	54	34.93	31.96	9.22	33.55	149	167	A	V
	*		5582	105.37	-	-	97.52	32.12	9.32	33.59	149	167	P	V
	*		5582	99.1	-	-	91.25	32.12	9.32	33.59	149	167	A	V
		5752.44	49.52	-24.48	74	41.37	32.36	9.44	33.65	149	167	P	V	
		5726.36	41.1	-12.9	54	32.99	32.31	9.44	33.64	149	167	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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)
802.11n HT20 CH 140 5700MHz	*	5698	98.3	-	-	90.27	32.27	9.39	33.63	157	23	P	H
	*	5698	91.28	-	-	83.25	32.27	9.39	33.63	157	23	A	H
		5725.64	57.09	-16.91	74	48.98	32.31	9.44	33.64	157	23	P	H
		5725.64	46.13	-7.87	54	38.02	32.31	9.44	33.64	157	23	A	H
													H
													H
	*	5702	105.98	-	-	97.93	32.29	9.39	33.63	151	80	P	V
	*	5702	99.81	-	-	91.76	32.29	9.39	33.63	151	80	A	V
		5728.12	63.97	-10.03	74	55.86	32.31	9.44	33.64	151	80	P	V
		5725.48	52.17	-1.83	54	44.06	32.31	9.44	33.64	151	80	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		11000	43.2	-30.8	74	46.52	40.4	13.48	57.2	100	0	P	H
		16500	41.65	-32.35	74	42.94	39	16.81	57.1	100	0	P	H
													H
													H
		11000	42.41	-31.59	74	45.73	40.4	13.48	57.2	100	0	P	V
		16500	41.22	-32.78	74	42.51	39	16.81	57.1	100	0	P	V
													V
802.11n HT20 CH 116 5580MHz		11160	40.88	-33.12	74	44.07	40.27	13.64	57.1	100	0	P	H
		16740	42.02	-31.98	74	42.4	39.92	16.8	57.1	100	0	P	H
													H
													H
		11160	40.26	-33.74	74	43.45	40.27	13.64	57.1	100	0	P	V
		16740	42.81	-31.19	74	43.19	39.92	16.8	57.1	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	41	-33	74	44.01	40.08	13.87	56.96	100	0	P	H
		17100	42.57	-31.43	74	41.96	41.12	16.85	57.36	100	0	P	H
													H
													H
		11400	44.2	-29.8	74	47.21	40.08	13.87	56.96	100	0	P	V
		17100	43.91	-30.09	74	43.3	41.12	16.85	57.36	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		5467.28	56.35	-17.65	74	48.71	31.97	9.22	33.55	170	332	P	H
		5469.04	47.83	-6.17	54	40.19	31.97	9.22	33.55	170	332	A	H
	*	5508	94.43	-	-	86.73	32	9.26	33.56	170	332	P	H
	*	5508	87.69	-	-	79.98	32	9.26	33.55	170	332	A	H
		5750.2	48.62	-25.38	74	40.49	32.34	9.44	33.65	170	332	P	H
		5729.96	40.45	-13.55	54	32.34	32.31	9.44	33.64	170	332	A	H
		5467.44	61.14	-12.86	74	53.5	31.97	9.22	33.55	169	98	P	V
		5469.36	53.96	-0.04	54	46.32	31.97	9.22	33.55	169	98	A	V
	*	5508	101.46	-	-	93.76	32	9.26	33.56	169	98	P	V
	*	5508	94.89	-	-	87.19	32	9.26	33.56	169	98	A	V
		5725.56	49.39	-24.61	74	41.28	32.31	9.44	33.64	169	98	P	V
		5734.52	40.74	-13.26	54	32.61	32.34	9.44	33.65	169	98	A	V
802.11n HT40 CH 110 5550MHz		5458.16	49.86	-24.14	74	42.23	31.96	9.22	33.55	181	26	P	H
		5469.52	41.9	-12.1	54	34.26	31.97	9.22	33.55	181	26	A	H
	*	5548	94.81	-	-	87.02	32.07	9.29	33.57	181	26	P	H
	*	5548	88.12	-	-	80.33	32.07	9.29	33.57	181	26	A	H
		5730.6	49.53	-24.47	74	41.43	32.31	9.44	33.65	181	26	P	H
		5755.24	40.52	-13.48	54	32.37	32.36	9.44	33.65	181	26	A	H
		5469.68	53.48	-20.52	74	45.84	31.97	9.22	33.55	160	95	P	V
		5468.88	45.67	-8.33	54	38.03	31.97	9.22	33.55	160	95	A	V
	*	5548	102.05	-	-	94.26	32.07	9.29	33.57	160	95	P	V
	*	5548	95.36	-	-	87.57	32.07	9.29	33.57	160	95	A	V
		5740.68	49.13	-24.87	74	41	32.34	9.44	33.65	160	95	P	V
		5726.44	40.96	-13.04	54	32.85	32.31	9.44	33.64	160	95	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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)
802.11n HT40 CH 134 5670MHz		5350.32	48.2	-25.8	74	40.78	31.88	9.08	33.54	159	0	P	H
		5456.4	39.95	-14.05	54	32.32	31.96	9.22	33.55	159	0	A	H
	*	5670	94.05	-	-	86.08	32.24	9.35	33.62	159	0	P	H
	*	5670	87.61	-	-	79.64	32.24	9.35	33.62	159	0	A	H
		5760.04	50.44	-23.56	74	42.29	32.36	9.44	33.65	159	0	P	H
		5725.32	42.77	-11.23	54	34.66	32.31	9.44	33.64	159	0	A	H
		5460.24	49.65	-24.35	74	42.02	31.96	9.22	33.55	167	84	P	V
		5457.2	42.2	-11.8	54	34.57	31.96	9.22	33.55	167	84	A	V
	*	5668	102.41	-	-	94.44	32.24	9.35	33.62	167	84	P	V
	*	5668	95.51	-	-	87.54	32.24	9.35	33.62	167	84	A	V
		5725.4	54.84	-19.16	74	46.73	32.31	9.44	33.64	167	84	P	V
	5725.16	47.24	-6.76	54	39.13	32.31	9.44	33.64	167	84	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz
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.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		11020	42.92	-31.08	74	46.24	40.39	13.48	57.19	100	0	P	H
		16530	41.42	-32.58	74	42.58	39.13	16.81	57.1	100	0	P	H
													H
													H
		11020	43.65	-30.35	74	46.97	40.39	13.48	57.19	100	0	P	V
		16530	39.76	-34.24	74	40.92	39.13	16.81	57.1	100	0	P	V
													V
802.11n HT40 CH 110 5550MHz		11100	41.78	-32.22	74	45.04	40.32	13.56	57.14	100	0	P	H
		16650	41.13	-32.87	74	41.84	39.59	16.8	57.1	100	0	P	H
													H
													H
		11100	42.08	-31.92	74	45.34	40.32	13.56	57.14	100	0	P	V
		16650	41.7	-32.3	74	42.41	39.59	16.8	57.1	100	0	P	V
													V
802.11n HT40 CH 134 5670MHz		11340	41.12	-32.88	74	44.2	40.13	13.79	57	100	0	P	H
		17010	42.63	-31.37	74	42.03	40.94	16.8	57.14	100	0	P	H
													H
													H
		11340	41.84	-32.16	74	44.92	40.13	13.79	57	100	0	P	V
		17010	42.61	-31.39	74	42.01	40.94	16.8	57.14	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz
WIFI 802.11n HT20 (LF @ 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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11n HT20 LF		42.69	19.49	-20.51	40	39.51	11.12	0.67	31.81	-	-	P	H	
		57.81	20.56	-19.44	40	45.78	5.54	1.04	31.8	-	-	P	H	
		132.87	29.5	-14	43.5	48.45	11.37	1.46	31.78	100	224	P	H	
		367.9	30.44	-15.56	46	45.13	14.78	2.32	31.79	-	-	P	H	
		432.3	30.42	-15.58	46	43.39	16.45	2.41	31.83	-	-	P	H	
		540.8	30.67	-15.33	46	41.33	18.52	2.77	31.95	-	-	P	H	
														H
														H
														H
														H
														H
														H
			57.81	20.5	-19.5	40	45.72	5.54	1.04	31.8	-	-	P	V
			133.14	29.62	-13.88	43.5	48.59	11.35	1.46	31.78	-	-	P	V
			194.97	30.65	-12.85	43.5	52.29	8.5	1.64	31.78	102	66	P	V
			367.2	29.69	-16.31	46	44.39	14.77	2.32	31.79	-	-	P	V
			432.3	30.17	-15.83	46	43.14	16.45	2.41	31.83	-	-	P	V
			541.5	30.5	-15.5	46	41.15	18.53	2.77	31.95	-	-	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”.