



Appendix B. Radiated Spurious Emission

Test Engineer :	Tsung Lee, Stan Hsieh and Ray Lee	Temperature :	20~22°C
		Relative Humidity :	41~43%

Band 4 - 5725~5850MHz

WIFI 802.11a (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)
802.11a CH 149 5745MHz		5714.99	55.96	-18.04	74	47.8	32.52	8.3	32.66	100	357	P	H
		5718.52	61.1	-17.2	78.3	52.93	32.53	8.3	32.66	100	357	P	H
		5715	45.29	-8.71	54	37.13	32.52	8.3	32.66	100	357	A	H
	*	5744	103.44	-	-	95.24	32.54	8.33	32.67	100	357	P	H
	*	5744	95.17	-	-	86.97	32.54	8.33	32.67	100	357	A	H
													H
													H
													H
		5714.2	53.67	-20.33	74	45.51	32.52	8.3	32.66	105	11	P	V
		5716.2	61.75	-16.55	78.3	53.59	32.52	8.3	32.66	105	11	P	V
		5715	44.63	-9.37	54	36.47	32.52	8.3	32.66	105	11	A	V
	*	5743	100.61	-	-	92.41	32.54	8.33	32.67	105	11	P	V
	*	5743	94.54	-	-	86.34	32.54	8.33	32.67	105	11	A	V
													V
													V
													V



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)
802.11a CH 157 5785MHz		5706.76	53.47	-20.53	74	45.31	32.52	8.3	32.66	117	358	P	H
		5719.88	51.81	-26.49	78.3	43.64	32.53	8.3	32.66	117	358	P	H
		5705.64	43.11	-10.89	54	34.95	32.52	8.3	32.66	117	358	A	H
	*	5783	103.24	-	-	95	32.57	8.35	32.68	117	358	P	H
	*	5783	95.56	-	-	87.32	32.57	8.35	32.68	117	358	A	H
		5858.4	49.94	-28.36	78.3	41.6	32.62	8.43	32.71	117	358	P	H
		5865.6	49.63	-24.37	74	41.29	32.62	8.43	32.71	117	358	P	H
		5860.88	40.28	-13.72	54	31.94	32.62	8.43	32.71	117	358	A	H
		5701.96	51.84	-22.16	74	43.67	32.52	8.3	32.65	100	11	P	V
		5715.48	50.44	-27.86	78.3	42.28	32.52	8.3	32.66	100	11	P	V
		5710.12	42.85	-11.15	54	34.69	32.52	8.3	32.66	100	11	A	V
	*	5783	101.63	-	-	93.39	32.57	8.35	32.68	100	11	P	V
	*	5783	94.6	-	-	86.36	32.57	8.35	32.68	100	11	A	V
		5853.52	49.55	-28.75	78.3	41.2	32.62	8.43	32.7	100	11	P	V
		5877.04	48.91	-25.09	74	40.56	32.63	8.43	32.71	100	11	P	V
		5860	39.73	-14.27	54	31.39	32.62	8.43	32.71	100	11	A	V



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)
802.11a CH 165 5825MHz	*	5827	104.05	-	-	95.75	32.6	8.39	32.69	100	360	P	H
	*	5827	96.93	-	-	88.63	32.6	8.39	32.69	100	360	A	H
		5850.4	53.43	-24.87	78.3	45.09	32.61	8.43	32.7	100	360	P	H
		5872.24	51.47	-22.53	74	43.12	32.63	8.43	32.71	100	360	P	H
		5860	42.11	-11.89	54	33.77	32.62	8.43	32.71	100	360	A	H
													H
													H
													H
	*	5823	102.24	-	-	93.94	32.6	8.39	32.69	100	352	P	V
	*	5823	95.23	-	-	86.93	32.6	8.39	32.69	100	352	A	V
		5855.12	51.13	-27.17	78.3	42.78	32.62	8.43	32.7	100	352	P	V
		5868.08	50.37	-23.63	74	42.03	32.62	8.43	32.71	100	352	P	V
		5860	40.98	-13.02	54	32.64	32.62	8.43	32.71	100	352	A	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (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)
802.11a CH 149 5745MHz		11490	45.07	-28.93	74	55.28	40.01	12.58	62.8	100	0	P	H
		17235	46.82	-27.18	74	50.25	41.05	15.66	60.14	100	0	P	H
													H
													H
		11490	45.84	-28.16	74	56.05	40.01	12.58	62.8	100	0	P	V
		17235	48.94	-25.06	74	52.37	41.05	15.66	60.14	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	44.53	-29.47	74	54.73	39.88	12.66	62.74	100	0	P	H
		17355	46.58	-27.42	74	49.62	41.38	15.79	60.21	100	0	P	H
													H
													H
		11570	46.8	-27.2	74	57	39.88	12.66	62.74	100	0	P	V
		17355	47.07	-26.93	74	50.11	41.38	15.79	60.21	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	44.83	-29.17	74	55.04	39.75	12.73	62.69	100	0	P	H
		17475	47.15	-26.85	74	49.79	41.71	15.93	60.28	100	0	P	H
													H
													H
		11650	45.57	-28.43	74	55.78	39.75	12.73	62.69	100	0	P	V
		17475	47.31	-26.69	74	49.95	41.71	15.93	60.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****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 149 5745MHz		5709.24	57.91	-16.09	74	49.75	32.52	8.3	32.66	100	0	P	H
		5724.92	59.84	-18.46	78.3	51.64	32.53	8.33	32.66	100	0	P	H
		5714.6	45.59	-8.41	54	37.43	32.52	8.3	32.66	100	0	A	H
	*	5747	101.08	-	-	92.88	32.54	8.33	32.67	100	0	P	H
	*	5747	94.74	-	-	86.54	32.54	8.33	32.67	100	0	A	H
													H
													H
													H
		5713.16	54.57	-19.43	74	46.41	32.52	8.3	32.66	100	10	P	V
		5724.12	59.88	-18.42	78.3	51.68	32.53	8.33	32.66	100	10	P	V
		5713.88	45.18	-8.82	54	37.02	32.52	8.3	32.66	100	10	A	V
	*	5743	100.57	-	-	92.37	32.54	8.33	32.67	100	10	P	V
	*	5743	94.03	-	-	85.83	32.54	8.33	32.67	100	10	A	V
													V
													V
													V



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 157 5785MHz		5709.56	52.78	-21.22	74	44.62	32.52	8.3	32.66	100	346	P	H
		5721.32	52.14	-26.16	78.3	43.97	32.53	8.3	32.66	100	346	P	H
		5705.64	44.13	-9.87	54	35.97	32.52	8.3	32.66	100	346	A	H
	*	5787	102.52	-	-	94.27	32.58	8.35	32.68	100	346	P	H
	*	5787	96.17	-	-	87.92	32.58	8.35	32.68	100	346	A	H
		5850.88	49.63	-28.67	78.3	41.29	32.61	8.43	32.7	100	346	P	H
		5864.56	49.91	-24.09	74	41.57	32.62	8.43	32.71	100	346	P	H
		5865.76	41.37	-12.63	54	33.03	32.62	8.43	32.71	100	346	A	H
		5713.16	52.64	-21.36	74	44.48	32.52	8.3	32.66	100	13	P	V
		5715.32	51.19	-27.11	78.3	43.03	32.52	8.3	32.66	100	13	P	V
		5711.16	44.01	-9.99	54	35.85	32.52	8.3	32.66	100	13	A	V
	*	5787	101.09	-	-	92.84	32.58	8.35	32.68	100	13	P	V
	*	5787	94.53	-	-	86.28	32.58	8.35	32.68	100	13	A	V
		5857.28	49.03	-29.27	78.3	40.68	32.62	8.43	32.7	100	13	P	V
		5886.88	48.39	-25.61	74	40.01	32.63	8.47	32.72	100	13	P	V
		5860.48	40.69	-13.31	54	32.35	32.62	8.43	32.71	100	13	A	V



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 165 5825MHz	*	5823	103.97	-	-	95.67	32.6	8.39	32.69	100	1	P	H
	*	5823	96.81	-	-	88.51	32.6	8.39	32.69	100	1	A	H
		5850.48	56.95	-21.35	78.3	48.61	32.61	8.43	32.7	100	1	P	H
		5872.08	50.67	-23.33	74	42.32	32.63	8.43	32.71	100	1	P	H
		5860	42.82	-11.18	54	34.48	32.62	8.43	32.71	100	1	A	H
													H
													H
													H
	*	5827	101.54	-	-	93.24	32.6	8.39	32.69	103	15	P	V
	*	5827	95.24	-	-	86.94	32.6	8.39	32.69	103	15	A	V
		5854.72	54.88	-23.42	78.3	46.53	32.62	8.43	32.7	103	15	P	V
		5868.24	50.38	-23.62	74	42.04	32.62	8.43	32.71	103	15	P	V
		5860.8	41.64	-12.36	54	33.3	32.62	8.43	32.71	103	15	A	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 149 5745MHz		11490	45.03	-28.97	74	55.24	40.01	12.58	62.8	100	0	P	H
		17235	45.38	-28.62	74	48.81	41.05	15.66	60.14	100	0	P	H
													H
													H
		11490	45.87	-28.13	74	56.08	40.01	12.58	62.8	100	0	P	V
		17235	47.51	-26.49	74	50.94	41.05	15.66	60.14	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	44.32	-29.68	74	54.52	39.88	12.66	62.74	100	0	P	H
		17355	46.06	-27.94	74	49.1	41.38	15.79	60.21	100	0	P	H
													H
													H
		11570	47.29	-26.71	74	57.49	39.88	12.66	62.74	100	0	P	V
		17355	47.89	-26.11	74	50.93	41.38	15.79	60.21	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	44.76	-29.24	74	54.97	39.75	12.73	62.69	100	0	P	H
		17475	46.92	-27.08	74	49.56	41.71	15.93	60.28	100	0	P	H
													H
													H
		11650	45.4	-28.6	74	55.61	39.75	12.73	62.69	100	0	P	V
		17475	49.3	-24.7	74	51.94	41.71	15.93	60.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 151 5755MHz		5714.12	58.69	-15.31	74	50.53	32.52	8.3	32.66	100	360	P	H
		5723.88	60.19	-18.11	78.3	51.99	32.53	8.33	32.66	100	360	P	H
		5714.28	49.23	-4.77	54	41.07	32.52	8.3	32.66	100	360	A	H
	*	5757	99.92	-	-	91.7	32.56	8.33	32.67	100	360	P	H
	*	5757	92.75	-	-	84.53	32.56	8.33	32.67	100	360	A	H
		5853.28	47.76	-30.54	78.3	39.42	32.61	8.43	32.7	100	360	P	H
		5886.08	49.11	-24.89	74	40.73	32.63	8.47	32.72	100	360	P	H
		5889.52	40.34	-13.66	54	31.95	32.64	8.47	32.72	100	360	A	H
		5714.92	56.54	-17.46	74	48.38	32.52	8.3	32.66	100	12	P	V
		5724.76	59.35	-18.95	78.3	51.15	32.53	8.33	32.66	100	12	P	V
		5714.68	48.64	-5.36	54	40.48	32.52	8.3	32.66	100	12	A	V
	*	5757	97.9	-	-	89.68	32.56	8.33	32.67	100	12	P	V
	*	5757	91.89	-	-	83.67	32.56	8.33	32.67	100	12	A	V
		5858.8	47.46	-30.84	78.3	39.12	32.62	8.43	32.71	100	12	P	V
		5860.56	47.75	-26.25	74	39.41	32.62	8.43	32.71	100	12	P	V
		5875.6	40.12	-13.88	54	31.77	32.63	8.43	32.71	100	12	A	V



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 159 5795MHz		5700.36	53.48	-20.52	74	45.32	32.51	8.3	32.65	109	360	P	H
		5718.44	53.72	-24.58	78.3	45.55	32.53	8.3	32.66	109	360	P	H
		5710.2	44.53	-9.47	54	36.37	32.52	8.3	32.66	109	360	A	H
	*	5793	100.3	-	-	92.05	32.58	8.35	32.68	109	360	P	H
	*	5793	93.46	-	-	85.21	32.58	8.35	32.68	109	360	A	H
		5859.68	49.31	-28.99	78.3	40.97	32.62	8.43	32.71	109	360	P	H
		5881.36	50.56	-23.44	74	42.17	32.63	8.47	32.71	109	360	P	H
		5866.08	42.3	-11.7	54	33.96	32.62	8.43	32.71	109	360	A	H
		5713.96	52.58	-21.42	74	44.42	32.52	8.3	32.66	100	10	P	V
		5716.12	52.34	-25.96	78.3	44.18	32.52	8.3	32.66	100	10	P	V
		5709	44.32	-9.68	54	36.16	32.52	8.3	32.66	100	10	A	V
	*	5793	99.22	-	-	90.97	32.58	8.35	32.68	100	10	P	V
	*	5793	92.3	-	-	84.05	32.58	8.35	32.68	100	10	A	V
		5855.44	50.46	-27.84	78.3	42.11	32.62	8.43	32.7	100	10	P	V
		5872.64	49.2	-24.8	74	40.85	32.63	8.43	32.71	100	10	P	V
		5877.92	41.62	-12.38	54	33.27	32.63	8.43	32.71	100	10	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 151 5755MHz		11510	45.2	-28.8	74	55.42	40	12.58	62.8	100	0	P	H
		17265	44.94	-29.06	74	48.29	41.15	15.66	60.16	100	0	P	H
													H
													H
		11510	45.75	-28.25	74	55.97	40	12.58	62.8	100	0	P	V
		17265	44.79	-29.21	74	48.14	41.15	15.66	60.16	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	45.45	-28.55	74	55.68	39.84	12.66	62.73	100	0	P	H
		17385	45.22	-28.78	74	48.19	41.47	15.79	60.23	100	0	P	H
													H
													H
		11590	47.91	-26.09	74	58.14	39.84	12.66	62.73	100	0	P	V
		17385	45.22	-28.78	74	48.19	41.47	15.79	60.23	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 155 5775MHz		5714.84	62.14	-6.16	68.3	53.98	32.52	8.3	32.66	100	360	P	H
		5724.52	62.04	-16.26	78.3	53.84	32.53	8.33	32.66	100	360	P	H
	*	5773	97.52	-	-	89.27	32.57	8.35	32.67	100	360	P	H
		5773	90.37	-	-	82.12	32.57	8.35	32.67	100	360	A	H
		5855.12	54.59	-23.71	78.3	46.24	32.62	8.43	32.7	100	360	P	H
		5865.12	52.37	-15.93	68.3	44.03	32.62	8.43	32.71	100	360	P	H
													H
													H
		5711.96	61.47	-6.83	68.3	53.31	32.52	8.3	32.66	100	11	P	V
		5724.36	61.72	-16.58	78.3	53.52	32.53	8.33	32.66	100	11	P	V
	*	5773	96.34	-	-	88.09	32.57	8.35	32.67	100	11	P	V
		5773	89.65	-	-	81.4	32.57	8.35	32.67	100	11	A	V
		5855.2	53.73	-24.57	78.3	45.38	32.62	8.43	32.7	100	11	P	V
		5860.4	51.19	-17.11	68.3	42.85	32.62	8.43	32.71	100	11	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 155 5775MHz		11550	45.97	-28.03	74	56.2	39.91	12.62	62.76	100	0	P	H
		17325	46.27	-22.03	68.3	49.42	41.29	15.75	60.19	100	0	P	H
													H
													H
		11550	45.24	-28.76	74	55.47	39.91	12.62	62.76	100	0	P	V
		17325	45.99	-22.31	68.3	49.14	41.29	15.75	60.19	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

5GHz WIFI 802.11n HT40 (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)
5GHz 802.11n HT40 LF		72.12	35.33	-4.67	40	54.47	12.64	0.93	32.71	100	334	P	H
		143.94	32.93	-10.57	43.5	46.55	17.72	1.33	32.67	-	-	P	H
		214.95	33.94	-9.56	43.5	48.85	16.2	1.62	32.73	-	-	P	H
		768.3	34.07	-11.93	46	36.1	27.92	2.97	32.92	-	-	P	H
		798.4	35.78	-10.22	46	37.41	28.28	2.97	32.88	-	-	P	H
		815.9	35.45	-10.55	46	36.68	28.49	3.07	32.79	-	-	P	H
													H
													H
													H
													H
													H
													H
		52.68	33.34	-6.66	40	50.88	14.3	0.93	32.77	100	51	P	V
		53.49	32.99	-7.01	40	50.83	14	0.93	32.77	-	-	P	V
		72.12	30.1	-9.9	40	49.24	12.64	0.93	32.71	-	-	P	V
		750.1	29.44	-16.56	46	31.77	27.7	2.91	32.94	-	-	P	V
		799.8	31.97	-14.03	46	33.58	28.3	2.97	32.88	-	-	P	V
		945.4	31.94	-14.06	46	29.98	30.49	3.29	31.82	-	-	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.
!	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

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. 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)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. 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)

2. 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 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	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 151 5755MHz		5714.92	58.1	-15.9	74	49.94	32.52	8.3	32.66	100	300	P	H
		5719.32	59.49	-18.81	78.3	51.32	32.53	8.3	32.66	100	300	P	H
		5715	49.33	-4.67	54	41.17	32.52	8.3	32.66	100	300	A	H
	*	5753	104.05	-	-	95.83	32.56	8.33	32.67	100	300	P	H
	*	5753	97.51	-	-	89.29	32.56	8.33	32.67	100	300	A	H
		5851.36	49.05	-29.25	78.3	40.71	32.61	8.43	32.7	100	300	P	H
		5877.2	48.52	-25.48	74	40.17	32.63	8.43	32.71	100	300	P	H
		5864.56	40.87	-13.13	54	32.53	32.62	8.43	32.71	100	300	A	H
		5714.84	49.79	-24.21	74	41.63	32.52	8.3	32.66	104	14	P	V
		5722.92	51.58	-26.72	78.3	43.38	32.53	8.33	32.66	104	14	P	V
		5714.92	43.02	-10.98	54	34.86	32.52	8.3	32.66	104	14	A	V
	*	5753	95.83	-	-	87.61	32.56	8.33	32.67	104	14	P	V
	*	5753	89.5	-	-	81.28	32.56	8.33	32.67	104	14	A	V
		5851.52	48.02	-30.28	78.3	39.68	32.61	8.43	32.7	104	14	P	V
		5875.92	47.89	-26.11	74	39.54	32.63	8.43	32.71	104	14	P	V
		5881.92	40.07	-13.93	54	31.68	32.63	8.47	32.71	104	14	A	V

**Band 4 5725~5850MHz****WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 2	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 151 5755MHz		11510	45.48	-28.52	74	55.7	40	12.58	62.8	100	0	P	H
		17265	44.84	-29.16	74	48.19	41.15	15.66	60.16	100	0	P	H
													H
													H
		11510	45.8	-28.2	74	56.02	40	12.58	62.8	100	0	P	V
		17265	44.86	-29.14	74	48.21	41.15	15.66	60.16	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

5GHz WIFI 802.11n HT40 (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)
5GHz 802.11n HT40 LF		53.22	31.26	-8.74	40	49.1	14	0.93	32.77	-	-	P	H
		72.12	34.92	-5.08	40	54.06	12.64	0.93	32.71	100	354	P	H
		214.95	33.4	-10.1	43.5	48.31	16.2	1.62	32.73	-	-	P	H
		796.3	35.53	-10.47	46	37.19	28.25	2.97	32.88	-	-	P	H
		815.9	34.83	-11.17	46	36.06	28.49	3.07	32.79	-	-	P	H
		911.8	33.89	-12.11	46	33.34	29.53	3.2	32.18	-	-	P	H
													H
													H
													H
													H
													H
													H
		52.95	33.33	-6.67	40	51.17	14	0.93	32.77	100	46	P	V
		53.76	33.11	-6.89	40	50.95	14	0.93	32.77	-	-	P	V
		59.7	30.02	-9.98	40	49.94	11.9	0.93	32.75	-	-	P	V
		815.9	31.81	-14.19	46	33.04	28.49	3.07	32.79	-	-	P	V
		936.3	32	-14	46	30.4	30.22	3.29	31.91	-	-	P	V
		943.3	31.79	-14.21	46	29.9	30.44	3.29	31.84	-	-	P	V
													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.
!	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

3. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

4. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

3. 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)

4. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

3. 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)

4. 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 4 5725~5850MHz****WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1+2	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 149 5745MHz		5711.48	56.35	-17.65	74	48.19	32.52	8.3	32.66	100	298	P	H
		5724.76	68.13	-10.17	78.3	59.93	32.53	8.33	32.66	100	298	P	H
		5715	48.98	-5.02	54	40.82	32.52	8.3	32.66	100	298	A	H
	*	5747	107.7	-	-	99.5	32.54	8.33	32.67	100	298	P	H
	*	5747	101.63	-	-	93.43	32.54	8.33	32.67	100	298	A	H
													H
													H
													H
		5714.36	50.73	-23.27	74	42.57	32.52	8.3	32.66	105	13	P	V
		5723.88	57.7	-20.6	78.3	49.5	32.53	8.33	32.66	105	13	P	V
		5710.84	43.73	-10.27	54	35.57	32.52	8.3	32.66	105	13	A	V
	*	5747	101.85	-	-	93.65	32.54	8.33	32.67	105	13	P	V
	*	5747	95.69	-	-	87.49	32.54	8.33	32.67	105	13	A	V
													V
													V
													V



WIFI Ant. 1+2	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 157 5785MHz		5714.76	55.67	-18.33	74	47.51	32.52	8.3	32.66	100	299	P	H
		5722.6	56.42	-21.88	78.3	48.22	32.53	8.33	32.66	100	299	P	H
		5712.04	48.52	-5.48	54	40.36	32.52	8.3	32.66	100	299	A	H
	*	5787	108.13	-	-	99.88	32.58	8.35	32.68	100	299	P	H
	*	5787	102.03	-	-	93.78	32.58	8.35	32.68	100	299	A	H
		5858.64	51.28	-27.02	78.3	42.94	32.62	8.43	32.71	100	299	P	H
		5865.04	50.98	-23.02	74	42.64	32.62	8.43	32.71	100	299	P	H
		5861.36	43.48	-10.52	54	35.14	32.62	8.43	32.71	100	299	A	H
		5703.8	52.46	-21.54	74	44.29	32.52	8.3	32.65	100	11	P	V
		5715.32	51.57	-26.73	78.3	43.41	32.52	8.3	32.66	100	11	P	V
		5708.76	44.16	-9.84	54	36	32.52	8.3	32.66	100	11	A	V
	*	5786	102.89	-	-	94.64	32.58	8.35	32.68	100	11	P	V
	*	5786	95.52	-	-	87.27	32.58	8.35	32.68	100	11	A	V
		5851.28	48.46	-29.84	78.3	40.12	32.61	8.43	32.7	100	11	P	V
		5862.24	49.35	-24.65	74	41.01	32.62	8.43	32.71	100	11	P	V
		5884.72	40.89	-13.11	54	32.51	32.63	8.47	32.72	100	11	A	V



WIFI Ant. 1+2	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 165 5825MHz	*	5827	108.98	-	-	100.68	32.6	8.39	32.69	100	298	P	H
	*	5827	103	-	-	94.7	32.6	8.39	32.69	100	298	A	H
		5853.68	59.45	-18.85	78.3	51.1	32.62	8.43	32.7	100	298	P	H
		5860.72	54.94	-19.06	74	46.6	32.62	8.43	32.71	100	298	P	H
		5863.2	45.76	-8.24	54	37.42	32.62	8.43	32.71	100	298	A	H
													H
													H
													H
	*	5824	102.95	-	-	94.65	32.6	8.39	32.69	100	344	P	V
	*	5824	97.06	-	-	88.76	32.6	8.39	32.69	100	344	A	V
		5856.16	56.68	-21.62	78.3	48.33	32.62	8.43	32.7	100	344	P	V
		5860.32	51.37	-22.63	74	43.03	32.62	8.43	32.71	100	344	P	V
		5861.92	42.61	-11.39	54	34.27	32.62	8.43	32.71	100	344	A	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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 149 5745MHz		11490	46.29	-27.71	74	56.5	40.01	12.58	62.8	100	0	P	H
		17235	46.51	-27.49	74	49.94	41.05	15.66	60.14	100	0	P	H
													H
													H
		11490	46.04	-27.96	74	56.25	40.01	12.58	62.8	100	0	P	V
		17235	49.25	-24.75	74	52.68	41.05	15.66	60.14	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	46.69	-27.31	74	56.89	39.88	12.66	62.74	100	0	P	H
		17355	46.52	-27.48	74	49.56	41.38	15.79	60.21	100	0	P	H
													H
													H
		11570	47.51	-26.49	74	57.71	39.88	12.66	62.74	100	0	P	V
		17355	46.27	-27.73	74	49.31	41.38	15.79	60.21	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	45.3	-28.7	74	55.51	39.75	12.73	62.69	100	0	P	H
		17475	50.08	-23.92	74	52.72	41.71	15.93	60.28	100	0	P	H
													H
													H
		11650	46.18	-27.82	74	56.39	39.75	12.73	62.69	100	0	P	V
		17475	48.36	-25.64	74	51	41.71	15.93	60.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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 151 5755MHz		5714.68	59.92	-14.08	74	51.76	32.52	8.3	32.66	100	299	P	H
		5724.84	64.03	-14.27	78.3	55.83	32.53	8.33	32.66	100	299	P	H
		5715	52.26	-1.74	54	44.1	32.52	8.3	32.66	100	299	A	H
	*	5757	106.65	-	-	98.43	32.56	8.33	32.67	100	299	P	H
	*	5757	99.05	-	-	90.83	32.56	8.33	32.67	100	299	A	H
		5851.92	50.68	-27.62	78.3	42.34	32.61	8.43	32.7	100	299	P	H
		5863.12	49.48	-24.52	74	41.14	32.62	8.43	32.71	100	299	P	H
		5860.56	42.08	-11.92	54	33.74	32.62	8.43	32.71	100	299	A	H
		5713.16	56.6	-17.4	74	48.44	32.52	8.3	32.66	100	9	P	V
		5723.08	60.17	-18.13	78.3	51.97	32.53	8.33	32.66	100	9	P	V
		5715	47.74	-6.26	54	39.58	32.52	8.3	32.66	100	9	A	V
	*	5753	98.1	-	-	89.88	32.56	8.33	32.67	100	9	P	V
	*	5753	92.18	-	-	83.96	32.56	8.33	32.67	100	9	A	V
		5856.08	48.74	-29.56	78.3	40.39	32.62	8.43	32.7	100	9	P	V
		5864.32	47.74	-26.26	74	39.4	32.62	8.43	32.71	100	9	P	V
		5864.48	40.3	-13.7	54	31.96	32.62	8.43	32.71	100	9	A	V



WIFI Ant. 1+2	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 159 5795MHz		5711.64	56.83	-17.17	74	48.67	32.52	8.3	32.66	100	298	P	H
		5717.48	56.71	-21.59	78.3	48.55	32.52	8.3	32.66	100	298	P	H
		5709.48	48.47	-5.53	54	40.31	32.52	8.3	32.66	100	298	A	H
	*	5793	106.18	-	-	97.93	32.58	8.35	32.68	100	298	P	H
	*	5793	99.05	-	-	90.8	32.58	8.35	32.68	100	298	A	H
		5857.6	52.57	-25.73	78.3	44.22	32.62	8.43	32.7	100	298	P	H
		5874.32	52.3	-21.7	74	43.95	32.63	8.43	32.71	100	298	P	H
		5861.6	43.77	-10.23	54	35.43	32.62	8.43	32.71	100	298	A	H
		5714.76	51.64	-22.36	74	43.48	32.52	8.3	32.66	100	13	P	V
		5716.84	52.49	-25.81	78.3	44.33	32.52	8.3	32.66	100	13	P	V
		5708.84	44.41	-9.59	54	36.25	32.52	8.3	32.66	100	13	A	V
	*	5793	98.94	-	-	90.69	32.58	8.35	32.68	100	13	P	V
	*	5793	93.04	-	-	84.79	32.58	8.35	32.68	100	13	A	V
		5852.16	49.08	-29.22	78.3	40.74	32.61	8.43	32.7	100	13	P	V
		5879.04	49.47	-24.53	74	41.12	32.63	8.43	32.71	100	13	P	V
		5876.64	41.39	-12.61	54	33.04	32.63	8.43	32.71	100	13	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	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 151 5755MHz		11510	46.5	-27.5	74	56.72	40	12.58	62.8	100	0	P	H
		17265	46.02	-27.98	74	49.37	41.15	15.66	60.16	100	0	P	H
													H
													H
		11510	46.5	-27.5	74	56.72	40	12.58	62.8	100	0	P	V
		17265	46.21	-27.79	74	49.56	41.15	15.66	60.16	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	45.15	-28.85	74	55.38	39.84	12.66	62.73	100	0	P	H
		17385	46.24	-27.76	74	49.21	41.47	15.79	60.23	100	0	P	H
													H
													H
		11590	45.78	-28.22	74	56.01	39.84	12.66	62.73	100	0	P	V
		17385	48.24	-25.76	74	51.21	41.47	15.79	60.23	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 155 5775MHz		5710.84	66.61	-1.69	68.3	58.45	32.52	8.3	32.66	100	298	P	H
		5724.92	67.05	-11.25	78.3	58.85	32.53	8.33	32.66	100	298	P	H
	*	5773	105.66	-	-	97.41	32.57	8.35	32.67	100	298	P	H
		5773	98.49	-	-	90.24	32.57	8.35	32.67	100	298	A	H
		5850.56	60.26	-18.04	78.3	51.92	32.61	8.43	32.7	100	298	P	H
		5865.2	57.48	-10.82	68.3	49.14	32.62	8.43	32.71	100	298	P	H
													H
													H
		5714.6	60.14	-8.16	68.3	51.98	32.52	8.3	32.66	106	14	P	V
		5723.72	63.44	-14.86	78.3	55.24	32.53	8.33	32.66	106	14	P	V
	*	5773	96.91	-	-	88.66	32.57	8.35	32.67	106	14	P	V
		5773	92.87	-	-	84.62	32.57	8.35	32.67	106	14	A	V
		5852.72	54.3	-24	78.3	45.96	32.61	8.43	32.7	106	14	P	V
		5862.24	50.69	-17.61	68.3	42.35	32.62	8.43	32.71	106	14	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 155 5775MHz		11550	45.53	-28.47	74	55.76	39.91	12.62	62.76	100	0	P	H
		17325	45.94	-22.36	68.3	49.09	41.29	15.75	60.19	100	0	P	H
													H
													H
		11550	45.4	-28.6	74	55.63	39.91	12.62	62.76	100	0	P	V
		17325	47.03	-21.27	68.3	50.18	41.29	15.75	60.19	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

5GHz WIFI 802.11ac VHT80 (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)
5GHz 802.11ac VHT80 LF		53.76	30.29	-9.71	40	48.13	14	0.93	32.77	-	-	P	H
		71.58	31.51	-8.49	40	50.66	12.64	0.93	32.72	100	322	P	H
		214.95	34.04	-9.46	43.5	48.95	16.2	1.62	32.73	-	-	P	H
		768.3	33.98	-12.02	46	36.01	27.92	2.97	32.92	-	-	P	H
		799.8	34.74	-11.26	46	36.35	28.3	2.97	32.88	-	-	P	H
		815.9	36.37	-9.63	46	37.6	28.49	3.07	32.79	-	-	P	H
													H
													H
													H
													H
													H
													H
		53.76	32.05	-7.95	40	49.89	14	0.93	32.77	100	27	P	V
		72.12	29.51	-10.49	40	48.65	12.64	0.93	32.71	-	-	P	V
		150.42	28.95	-14.55	43.5	42.9	17.4	1.33	32.68	-	-	P	V
		857.2	31.17	-14.83	46	31.62	28.95	3.16	32.56	-	-	P	V
		917.4	32.03	-13.97	46	31.26	29.69	3.2	32.12	-	-	P	V
		946.8	31.97	-14.03	46	29.95	30.52	3.29	31.79	-	-	P	V
													V
													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.
!	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

5. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

6. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

5. 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)

6. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

5. 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)

6. 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”.