



Appendix B. Radiated Spurious Emission

Test Engineer :	Citta Ke and Ricky Su	Temperature :	23~25°C
		Relative Humidity :	55~60%

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5122.4	59.09	-14.91	74	50.52	31.62	11.24	34.29	230	128	P	H
		5144.9	48.38	-5.62	54	39.79	31.65	11.21	34.27	230	128	A	H
	*	5260	118.14	-	-	109.34	31.77	11.26	34.23	230	128	P	H
	*	5260	108.28	-	-	99.48	31.77	11.26	34.23	230	128	A	H
		5419.74	59.82	-14.18	74	50.47	31.92	11.6	34.17	230	128	P	H
		5459.34	49	-5	54	39.57	31.95	11.64	34.16	230	128	A	H
		5111.15	57.55	-16.45	74	48.98	31.62	11.24	34.29	400	218	P	V
		5116.7	45.66	-8.34	54	37.09	31.62	11.24	34.29	400	218	A	V
	*	5260	113.98	-	-	105.18	31.77	11.26	34.23	400	218	P	V
	*	5260	104.61	-	-	95.81	31.77	11.26	34.23	400	218	A	V
		5368.92	58.64	-15.36	74	49.44	31.87	11.52	34.19	400	218	P	V
		5415.78	47.62	-6.38	54	38.27	31.92	11.6	34.17	400	218	A	V
802.11a CH 60 5300MHz		5124.05	59.19	-14.81	74	50.6	31.63	11.24	34.28	100	136	P	H
		5147	48.11	-5.89	54	39.52	31.65	11.21	34.27	100	136	A	H
	*	5302	118.62	-	-	109.61	31.8	11.43	34.22	100	136	P	H
	*	5302	108.71	-	-	99.7	31.8	11.43	34.22	100	136	A	H
		5384.87	60.11	-13.89	74	50.81	31.88	11.6	34.18	100	136	P	H
		5422.16	49.43	-4.57	54	40.04	31.92	11.64	34.17	100	136	A	H
		5117.3	57.78	-16.22	74	49.21	31.62	11.24	34.29	400	215	P	V
		5126.6	46.54	-7.46	54	37.95	31.63	11.24	34.28	400	215	A	V
	*	5302	114.34	-	-	105.33	31.8	11.43	34.22	400	215	P	V
	*	5302	104.14	-	-	95.13	31.8	11.43	34.22	400	215	A	V
		5450.21	59.59	-14.41	74	50.16	31.95	11.64	34.16	400	215	P	V
		5408.96	48.18	-5.82	54	38.86	31.9	11.6	34.18	400	215	A	V



802.11a CH 64 5320MHz	*	5322	119.37	-	-	110.33	31.82	11.43	34.21	238	119	P	H
	*	5322	109.75	-	-	100.71	31.82	11.43	34.21	238	119	A	H
		5352.75	63.13	-10.87	74	53.96	31.85	11.52	34.2	238	119	P	H
		5353.3	51.94	-2.06	54	42.77	31.85	11.52	34.2	238	119	A	H
													H
													H
	*	5322	115.74	-	-	106.7	31.82	11.43	34.21	400	180	P	V
	*	5322	105.89	-	-	96.85	31.82	11.43	34.21	400	180	A	V
		5351.21	63.36	-10.64	74	54.19	31.85	11.52	34.2	400	180	P	V
		5351.21	50.01	-3.99	54	40.84	31.85	11.52	34.2	400	180	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 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)
802.11a CH 52 5260MHz		10525	56.58	-17.42	74	56.65	39.82	17.31	57.2	256	64	P	H
		10525	41.35	-12.65	54	41.42	39.82	17.31	57.2	256	64	A	H
		15780	45.22	-28.78	74	43.51	37.97	21.79	58.05	100	0	P	H
													H
		10520	54.18	-19.82	74	54.25	39.82	17.31	57.2	371	360	P	V
		10520	40.56	-13.44	54	40.63	39.82	17.31	57.2	371	360	A	V
		15780	45.58	-28.42	74	43.87	37.97	21.79	58.05	100	0	P	V
802.11a CH 60 5300MHz		10600	49.89	-24.11	74	49.75	39.92	17.4	57.18	100	0	P	H
		15900	47.1	-26.9	74	45.21	37.82	21.88	57.81	100	0	P	H
													H
													H
		10595	54.59	-19.41	74	54.47	39.9	17.4	57.18	100	360	P	V
		10595	39.77	-14.23	54	39.65	39.9	17.4	57.18	100	360	A	V
		15900	47.81	-26.19	74	45.92	37.82	21.88	57.81	100	0	P	V
802.11a CH 64 5320MHz		10640	56.84	-17.16	74	56.59	39.97	17.45	57.17	247	65	P	H
		10640	42.58	-11.42	54	42.33	39.97	17.45	57.17	247	65	A	H
		15960	45.33	-28.67	74	43.32	37.74	21.94	57.67	100	0	P	H
													H
		10640	54.9	-19.1	74	54.65	39.97	17.45	57.17	151	360	P	V
		10640	40.94	-13.06	54	40.69	39.97	17.45	57.17	151	360	A	V
		15960	47.1	-26.9	74	45.09	37.74	21.94	57.67	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (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 VHT20 CH 52 5260MHz		5127.8	59.95	-14.05	74	51.36	31.63	11.24	34.28	237	124	P	H
		5147.6	48.21	-5.79	54	39.62	31.65	11.21	34.27	237	124	A	H
	*	5262	119.26	-	-	110.37	31.77	11.35	34.23	237	124	P	H
	*	5262	109.66	-	-	100.77	31.77	11.35	34.23	237	124	A	H
		5446.47	60.37	-13.63	74	50.94	31.95	11.64	34.16	237	124	P	H
		5410.5	49.52	-4.48	54	40.2	31.9	11.6	34.18	237	124	A	H
		5121.05	57.83	-16.17	74	49.26	31.62	11.24	34.29	400	219	P	V
		5107.85	46.63	-7.37	54	38.06	31.62	11.24	34.29	400	219	A	V
	*	5258	115.22	-	-	106.45	31.75	11.26	34.24	400	219	P	V
	*	5258	105.19	-	-	96.42	31.75	11.26	34.24	400	219	A	V
		5420.29	59.8	-14.2	74	50.41	31.92	11.64	34.17	400	219	P	V
		5407.64	47.99	-6.01	54	38.67	31.9	11.6	34.18	400	219	A	V
802.11ac VHT20 CH 60 5300MHz		5144.6	59.21	-14.79	74	50.62	31.65	11.21	34.27	223	123	P	H
		5146.1	48.58	-5.42	54	39.99	31.65	11.21	34.27	223	123	A	H
	*	5302	119.47	-	-	110.46	31.8	11.43	34.22	223	123	P	H
	*	5302	109.99	-	-	100.98	31.8	11.43	34.22	223	123	A	H
		5445.7	60.52	-13.48	74	51.09	31.95	11.64	34.16	223	123	P	H
		5441.85	49.63	-4.37	54	40.23	31.93	11.64	34.17	223	123	A	H
		5141.3	57.98	-16.02	74	49.39	31.65	11.21	34.27	392	221	P	V
		5145.35	46.61	-7.39	54	38.02	31.65	11.21	34.27	392	221	A	V
	*	5298	115.53	-	-	106.6	31.8	11.35	34.22	392	221	P	V
	*	5298	105.3	-	-	96.37	31.8	11.35	34.22	392	221	A	V
	5418.53	59.75	-14.25	74	50.4	31.92	11.6	34.17	392	221	P	V	
	5423.59	48.16	-5.84	54	38.77	31.92	11.64	34.17	392	221	A	V	



802.11ac VHT20 CH 64 5320MHz	*	5318	119.95	-	-	110.91	31.82	11.43	34.21	237	121	P	H
	*	5318	109.82	-	-	100.78	31.82	11.43	34.21	237	121	A	H
		5350.66	65.43	-8.57	74	56.26	31.85	11.52	34.2	237	121	P	H
		5351.43	53.12	-0.88	54	43.95	31.85	11.52	34.2	237	121	A	H
													H
													H
	*	5318	115.8	-	-	106.76	31.82	11.43	34.21	391	222	P	V
	*	5318	105.68	-	-	96.64	31.82	11.43	34.21	391	222	A	V
		5353.41	60.12	-13.88	74	50.95	31.85	11.52	34.2	391	222	P	V
		5459.56	48.27	-5.73	54	38.84	31.95	11.64	34.16	391	222	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 802.11ac VHT20 (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 VHT20 CH 52 5260MHz		10525	56.24	-17.76	74	56.31	39.82	17.31	57.2	246	60	P	H	
		10525	42.17	-11.83	54	42.24	39.82	17.31	57.2	246	60	A	H	
		15780	46.96	-27.04	74	45.25	37.97	21.79	58.05	100	0	P	H	
													H	
			10510	54.39	-19.61	74	54.48	39.8	17.31	57.2	370	0	P	V
			10510	40.5	-13.5	54	40.59	39.8	17.31	57.2	370	0	A	V
			15780	47.61	-26.39	74	45.9	37.97	21.79	58.05	100	0	P	V
													V	
802.11ac VHT20 CH 60 5300MHz		10600	50.37	-23.63	74	50.23	39.92	17.4	57.18	100	0	P	H	
		15900	46.01	-27.99	74	44.12	37.82	21.88	57.81	100	0	P	H	
													H	
													H	
			10600	54.07	-19.93	74	53.93	39.92	17.4	57.18	100	0	P	V
			10600	40.2	-13.8	54	40.06	39.92	17.4	57.18	100	0	A	V
			15906	55.46	-18.54	74	53.52	37.8	21.91	57.77	129	149	P	V
		15906	40.33	-13.67	54	38.39	37.8	21.91	57.77	129	149	A	V	
802.11ac VHT20 CH 64 5320MHz		10635	55.17	-18.83	74	54.92	39.97	17.45	57.17	160	283	P	H	
		10635	40.82	-13.18	54	40.57	39.97	17.45	57.17	160	283	A	H	
		15960	44.63	-29.37	74	42.62	37.74	21.94	57.67	100	0	P	H	
													H	
			10640	54.24	-19.76	74	53.99	39.97	17.45	57.17	100	360	P	V
			10640	40.83	-13.17	54	40.58	39.97	17.45	57.17	100	360	A	V
			15960	46.92	-27.08	74	44.91	37.74	21.94	57.67	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 802.11ac VHT40 (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 VHT40 CH 54 5270MHz		5092.85	59.76	-14.24	74	51.18	31.6	11.27	34.29	233	128	P	H
		5148.65	49.14	-4.86	54	40.55	31.65	11.21	34.27	233	128	A	H
	*	5268	117.47	-	-	108.58	31.77	11.35	34.23	233	128	P	H
	*	5268	106.73	-	-	97.84	31.77	11.35	34.23	233	128	A	H
		5367.38	60.49	-13.51	74	51.29	31.87	11.52	34.19	233	128	P	H
		5442.07	49.73	-4.27	54	40.33	31.93	11.64	34.17	233	128	A	H
		5103.8	57.46	-16.54	74	48.91	31.6	11.24	34.29	400	222	P	V
		5122.1	46.69	-7.31	54	38.12	31.62	11.24	34.29	400	222	A	V
	*	5268	113.1	-	-	104.21	31.77	11.35	34.23	400	222	P	V
	*	5268	103.63	-	-	94.74	31.77	11.35	34.23	400	222	A	V
		5363.75	58.39	-15.61	74	49.19	31.87	11.52	34.19	400	222	P	V
		5407.42	48.06	-5.94	54	38.74	31.9	11.6	34.18	400	222	A	V
802.11ac VHT40 CH 62 5310MHz		5110.4	59.76	-14.24	74	51.19	31.62	11.24	34.29	226	122	P	H
		5146.85	49.13	-4.87	54	40.54	31.65	11.21	34.27	226	122	A	H
	*	5312	114.65	-	-	105.61	31.82	11.43	34.21	226	122	P	H
	*	5312	105	-	-	95.96	31.82	11.43	34.21	226	122	A	H
		5354.18	64.09	-9.91	74	54.92	31.85	11.52	34.2	226	122	P	H
		5352.86	53.88	-0.12	54	44.71	31.85	11.52	34.2	226	122	A	H
		5149.7	57.27	-16.73	74	48.68	31.65	11.21	34.27	394	216	P	V
		5147.3	46.3	-7.7	54	37.71	31.65	11.21	34.27	394	216	A	V
	*	5312	111.32	-	-	102.28	31.82	11.43	34.21	394	216	P	V
	*	5312	101.38	-	-	92.34	31.82	11.43	34.21	394	216	A	V
	5350.33	61.7	-12.3	74	52.53	31.85	11.52	34.2	394	216	P	V	
	5350	50.39	-3.61	54	41.22	31.85	11.52	34.2	394	216	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (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 VHT40 CH 54 5270MHz		10535	55.49	-18.51	74	55.53	39.84	17.31	57.19	251	61	P	H	
		10535	42.12	-11.88	54	42.16	39.84	17.31	57.19	251	61	A	H	
		15810	45.65	-28.35	74	43.88	37.93	21.82	57.98	100	0	P	H	
													H	
			10535	52.55	-21.45	74	52.59	39.84	17.31	57.19	100	360	P	V
			10535	39.26	-14.74	54	39.3	39.84	17.31	57.19	100	360	A	V
			15810	47.75	-26.25	74	45.98	37.93	21.82	57.98	100	0	P	V
802.11ac VHT40 CH 62 5310MHz		10620	49.44	-24.56	74	49.28	39.94	17.4	57.18	100	0	P	H	
		15930	44.36	-29.64	74	42.41	37.78	21.91	57.74	100	0	P	H	
													H	
													H	
			10620	49.33	-24.67	74	49.17	39.94	17.4	57.18	100	0	P	V
			15930	44.71	-29.29	74	42.76	37.78	21.91	57.74	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 802.11ac 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 58 5290MHz		5142.35	56.75	-17.25	74	48.16	31.65	11.21	34.27	228	126	P	H
		5123.45	46.44	-7.56	54	37.85	31.63	11.24	34.28	228	126	A	H
	*	5288	107.34	-	-	98.43	31.78	11.35	34.22	228	126	P	H
	*	5288	97.6	-	-	88.69	31.78	11.35	34.22	228	126	A	H
		5350.22	64.38	-9.62	74	55.21	31.85	11.52	34.2	228	126	P	H
		5350	53.61	-0.39	54	44.44	31.85	11.52	34.2	228	126	A	H
		5074.7	56.56	-17.44	74	48.01	31.58	11.27	34.3	400	218	P	V
		5098.7	45.61	-8.39	54	37.03	31.6	11.27	34.29	400	218	A	V
	*	5292	103.02	-	-	94.11	31.78	11.35	34.22	400	218	P	V
	*	5292	94.05	-	-	85.14	31.78	11.35	34.22	400	218	A	V
		5358.25	60.73	-13.27	74	51.56	31.85	11.52	34.2	400	218	P	V
	5358.03	50.24	-3.76	54	41.07	31.85	11.52	34.2	400	218	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac 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 58 5290MHz		10580	47.57	-26.43	74	47.49	39.9	17.36	57.18	100	0	P	H	
		15870	45.06	-28.94	74	43.18	37.84	21.88	57.84	100	0	P	H	
													H	
													H	
			10580	46.8	-27.2	74	46.72	39.9	17.36	57.18	100	0	P	V
			15870	45.64	-28.36	74	43.76	37.84	21.88	57.84	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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 100 5500MHz		5469.2	59.93	-14.07	74	50.44	31.97	11.67	34.15	229	119	P	H	
		5469.2	49.22	-4.78	54	39.73	31.97	11.67	34.15	229	119	A	H	
	*	5500	116.54	-	-	107.01	32	11.67	34.14	229	119	P	H	
	*	5500	106.97	-	-	97.44	32	11.67	34.14	229	119	A	H	
													H	
														H
			5468.88	57.72	-16.28	74	48.23	31.97	11.67	34.15	393	175	P	V
			5469.36	46.59	-7.41	54	37.1	31.97	11.67	34.15	393	175	A	V
	*		5500	112.85	-	-	103.32	32	11.67	34.14	393	175	P	V
	*		5500	103.18	-	-	93.65	32	11.67	34.14	393	175	A	V
														V
														V
802.11a CH 116 5580MHz		5408.4	59.12	-14.88	74	49.8	31.9	11.6	34.18	223	120	P	H	
		5456.56	47.86	-6.14	54	38.43	31.95	11.64	34.16	223	120	A	H	
	*	5580	117.89	-	-	108.2	32.1	11.74	34.15	223	120	P	H	
	*	5580	107.53	-	-	97.84	32.1	11.74	34.15	223	120	A	H	
			5730.92	58.84	-15.16	74	48.85	32.31	11.84	34.16	223	120	P	H
			5731.96	47.61	-6.39	54	37.62	32.31	11.84	34.16	223	120	A	H
			5452.08	57.89	-16.11	74	48.46	31.95	11.64	34.16	380	176	P	V
			5455.44	46.58	-7.42	54	37.15	31.95	11.64	34.16	380	176	A	V
	*		5580	114.48	-	-	104.79	32.1	11.74	34.15	380	176	P	V
	*		5580	103.96	-	-	94.27	32.1	11.74	34.15	380	176	A	V
			5728.52	57.69	-16.31	74	47.7	32.31	11.84	34.16	380	176	P	V
			5740.44	46.61	-7.39	54	36.57	32.34	11.86	34.16	380	176	A	V



802.11a CH 140 5700MHz	*	5700	116.46	-	-	106.53	32.27	11.82	34.16	226	124	P	H
	*	5700	106.12	-	-	96.19	32.27	11.82	34.16	226	124	A	H
		5725.88	63.14	-10.86	74	53.15	32.31	11.84	34.16	226	124	P	H
		5725.72	51.43	-2.57	54	41.44	32.31	11.84	34.16	226	124	A	H
													H
													H
	*	5700	112.95	-	-	103.02	32.27	11.82	34.16	400	179	P	V
	*	5700	102.8	-	-	92.87	32.27	11.82	34.16	400	179	A	V
		5725.88	60.49	-13.51	74	50.5	32.31	11.84	34.16	400	179	P	V
		5725	49.04	-4.96	54	39.05	32.31	11.84	34.16	400	179	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 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)
802.11a CH 100 5500MHz		11000	61.19	-12.81	74	60.03	40.4	17.86	57.1	280	117	P	H
		11000	47.42	-6.58	54	46.26	40.4	17.86	57.1	280	117	A	H
		16500	45.9	-28.1	74	40.18	39.3	22.42	56	100	0	P	H
													H
		11000	58.87	-15.13	74	57.71	40.4	17.86	57.1	189	175	P	V
		11000	44.56	-9.44	54	43.4	40.4	17.86	57.1	189	175	A	V
		16500	46.19	-27.81	74	40.47	39.3	22.42	56	100	0	P	V
802.11a CH 116 5580MHz		11160	60.72	-13.28	74	59.71	40.3	18.04	57.33	172	60	P	H
		11160	47.21	-6.79	54	46.2	40.3	18.04	57.33	172	60	A	H
		16740	46.99	-27.01	74	40.41	40.07	22.65	56.14	100	0	P	H
													H
		11165	60.4	-13.6	74	59.39	40.3	18.04	57.33	145	9	P	V
		11165	45.99	-8.01	54	44.98	40.3	18.04	57.33	145	9	A	V
		16740	47.55	-26.45	74	40.97	40.07	22.65	56.14	100	0	P	V
802.11a CH 140 5700MHz		11400	58.93	-15.07	74	58.12	40.16	18.31	57.66	100	297	P	H
		11400	44.77	-9.23	54	43.96	40.16	18.31	57.66	100	297	A	H
		17100	48	-26	74	40.45	41.22	22.99	56.66	100	0	P	H
													H
		11400	59.54	-14.46	74	58.73	40.16	18.31	57.66	194	9	P	V
		11400	44.83	-9.17	54	44.02	40.16	18.31	57.66	194	9	A	V
		17100	48.2	-25.8	74	40.65	41.22	22.99	56.66	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (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 VHT20 CH 100 5500MHz		5465.04	61.74	-12.26	74	52.25	31.97	11.67	34.15	230	122	P	H	
		5466.8	51.14	-2.86	54	41.65	31.97	11.67	34.15	230	122	A	H	
	*	5500	119.43	-	-	109.9	32	11.67	34.14	230	122	P	H	
	*	5500	108.88	-	-	99.35	32	11.67	34.14	230	122	A	H	
													H	
														H
			5469.36	59.05	-14.95	74	49.56	31.97	11.67	34.15	394	176	P	V
			5470	48.36	-5.64	54	38.87	31.97	11.67	34.15	394	176	A	V
		*	5500	115.07	-	-	105.54	32	11.67	34.14	394	176	P	V
		*	5500	104.93	-	-	95.4	32	11.67	34.14	394	176	A	V
														V
														V
802.11ac VHT20 CH 116 5580MHz		5392.88	59.78	-14.22	74	50.48	31.88	11.6	34.18	223	121	P	H	
		5470	48.06	-5.94	54	38.57	31.97	11.67	34.15	223	121	A	H	
		*	5580	119.07	-	-	109.38	32.1	11.74	34.15	223	121	P	H
		*	5580	108.36	-	-	98.67	32.1	11.74	34.15	223	121	A	H
			5740.2	59.27	-14.73	74	49.23	32.34	11.86	34.16	223	121	P	H
			5725.08	47.59	-6.41	54	37.6	32.31	11.84	34.16	223	121	A	H
			5369.68	58.17	-15.83	74	48.97	31.87	11.52	34.19	399	174	P	V
			5465.68	46.6	-7.4	54	37.11	31.97	11.67	34.15	399	174	A	V
		*	5580	115.78	-	-	106.09	32.1	11.74	34.15	399	174	P	V
		*	5580	105.12	-	-	95.43	32.1	11.74	34.15	399	174	A	V
			5726.52	58.27	-15.73	74	48.28	32.31	11.84	34.16	399	174	P	V
			5726.12	46.76	-7.24	54	36.77	32.31	11.84	34.16	399	174	A	V



802.11ac VHT20 CH 140 5700MHz	*	5700	117.06	-	-	107.13	32.27	11.82	34.16	227	121	P	H
	*	5700	106.38	-	-	96.45	32.27	11.82	34.16	227	121	A	H
		5726.36	64.08	-9.92	74	54.09	32.31	11.84	34.16	227	121	P	H
		5725.4	52.32	-1.68	54	42.33	32.31	11.84	34.16	227	121	A	H
													H
													H
	*	5700	112.82	-	-	102.89	32.27	11.82	34.16	400	174	P	V
	*	5700	102.61	-	-	92.68	32.27	11.82	34.16	400	174	A	V
		5727.48	59.61	-14.39	74	49.62	32.31	11.84	34.16	400	174	P	V
		5725.4	48.24	-5.76	54	38.25	32.31	11.84	34.16	400	174	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 802.11ac VHT20 (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 VHT20 CH 100 5500MHz		11000	61.66	-12.34	74	60.5	40.4	17.86	57.1	182	61	P	H	
		11000	46.47	-7.53	54	45.31	40.4	17.86	57.1	182	61	A	H	
		16500	45.59	-28.41	74	39.87	39.3	22.42	56	100	0	P	H	
													H	
			11005	59.58	-14.42	74	58.45	40.39	17.86	57.12	155	360	P	V
			11005	45.85	-8.15	54	44.72	40.39	17.86	57.12	155	360	A	V
			16500	44.66	-29.34	74	38.94	39.3	22.42	56	100	0	P	V
													V	
802.11ac VHT20 CH 116 5580MHz		11165	61.28	-12.72	74	60.27	40.3	18.04	57.33	243	60	P	H	
		11165	47.17	-6.83	54	46.16	40.3	18.04	57.33	243	60	A	H	
		16740	47.89	-26.11	74	41.31	40.07	22.65	56.14	100	0	P	H	
													H	
			11165	58.94	-15.06	74	57.93	40.3	18.04	57.33	147	360	P	V
			11165	45.04	-8.96	54	44.03	40.3	18.04	57.33	147	360	A	V
			16740	47.98	-26.02	74	41.4	40.07	22.65	56.14	100	0	P	V
													V	
802.11ac VHT20 CH 140 5700MHz		11400	59.49	-14.51	74	58.68	40.16	18.31	57.66	100	295	P	H	
		11400	44.67	-9.33	54	43.86	40.16	18.31	57.66	100	295	A	H	
		17100	47.96	-26.04	74	40.41	41.22	22.99	56.66	100	0	P	H	
													H	
			11395	58.3	-15.7	74	57.46	40.17	18.31	57.64	223	3	P	V
			11395	43.98	-10.02	54	43.14	40.17	18.31	57.64	223	3	A	V
			17100	48.61	-25.39	74	41.06	41.22	22.99	56.66	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 802.11ac VHT40 (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 VHT40 CH 102 5510MHz		5468.4	63.6	-10.4	74	54.11	31.97	11.67	34.15	231	119	P	H
		5467.44	53.26	-0.74	54	43.77	31.97	11.67	34.15	231	119	A	H
	*	5510	114.43	40.43	74	104.87	32	11.7	34.14	231	119	P	H
	*	5510	104.3	50.3	54	94.74	32	11.7	34.14	231	119	A	H
		5725.4	58.81	-15.19	74	48.82	32.31	11.84	34.16	231	119	P	H
		5737.48	47.54	-6.46	54	37.52	32.34	11.84	34.16	231	119	A	H
		5467.6	58.23	-15.77	74	48.74	31.97	11.67	34.15	389	177	P	V
		5469.52	48.76	-5.24	54	39.27	31.97	11.67	34.15	389	177	A	V
	*	5510	110.74	36.74	74	101.18	32	11.7	34.14	389	177	P	V
	*	5510	100.56	46.56	54	91	32	11.7	34.14	389	177	A	V
		5739.88	58.45	-15.55	74	48.43	32.34	11.84	34.16	389	177	P	V
		5743.56	47.09	-6.91	54	37.05	32.34	11.86	34.16	389	177	A	V
802.11ac VHT40 CH 110 5550MHz		5448.24	58.26	-15.74	74	48.83	31.95	11.64	34.16	225	126	P	H
		5466.8	47.42	-6.58	54	37.93	31.97	11.67	34.15	225	126	A	H
	*	5550	117.1	-	-	107.44	32.07	11.74	34.15	225	126	P	H
	*	5550	106.02	-	-	96.36	32.07	11.74	34.15	225	126	A	H
		5731.64	58.22	-15.78	74	48.23	32.31	11.84	34.16	225	126	P	H
		5733.24	47.03	-6.97	54	37.04	32.31	11.84	34.16	225	126	A	H
		5456.88	57.93	-16.07	74	48.5	31.95	11.64	34.16	397	215	P	V
		5463.6	46.52	-7.48	54	37.03	31.97	11.67	34.15	397	215	A	V
	*	5550	113.59	-	-	103.93	32.07	11.74	34.15	397	215	P	V
	*	5550	102.55	-	-	92.89	32.07	11.74	34.15	397	215	A	V
	5734.52	58.66	-15.34	74	48.64	32.34	11.84	34.16	397	215	P	V	
	5733.48	46.48	-7.52	54	36.49	32.31	11.84	34.16	397	215	A	V	



802.11ac VHT40 CH 134 5670MHz		5447.92	58.19	-15.81	74	48.76	31.95	11.64	34.16	228	124	P	H
		5447.76	47.98	-6.02	54	38.55	31.95	11.64	34.16	228	124	A	H
	*	5670	116.79	-	-	106.89	32.24	11.82	34.16	228	124	P	H
	*	5670	106.25	-	-	96.35	32.24	11.82	34.16	228	124	A	H
		5725.24	62.23	-11.77	74	52.24	32.31	11.84	34.16	228	124	P	H
		5725.08	51.66	-2.34	54	41.67	32.31	11.84	34.16	228	124	A	H
		5379.92	57.94	-16.06	74	48.72	31.88	11.52	34.18	370	176	P	V
		5446.96	46.89	-7.11	54	37.46	31.95	11.64	34.16	370	176	A	V
	*	5670	111.2	-	-	101.3	32.24	11.82	34.16	370	176	P	V
	*	5670	101.14	-	-	91.24	32.24	11.82	34.16	370	176	A	V
		5730.76	59.28	-14.72	74	49.29	32.31	11.84	34.16	370	176	P	V
		5732.12	48.72	-5.28	54	38.73	32.31	11.84	34.16	370	176	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (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 VHT40 CH 102 5510MHz		11020	50.45	-23.55	74	49.32	40.39	17.86	57.12	100	0	P	H	
		16530	46.28	-27.72	74	40.43	39.41	22.46	56.02	100	0	P	H	
													H	
													H	
			11020	50.97	-23.03	74	49.84	40.39	17.86	57.12	100	0	P	V
			16530	45.83	-28.17	74	39.98	39.41	22.46	56.02	100	0	P	V
														V
802.11ac VHT40 CH 110 5550MHz		11100	60.28	-13.72	74	59.23	40.34	17.95	57.24	281	116	P	H	
		11100	47.57	-6.43	54	46.52	40.34	17.95	57.24	281	116	A	H	
		16650	46.33	-27.67	74	40.05	39.8	22.57	56.09	100	0	P	H	
													H	
			11100	58.38	-15.62	74	57.33	40.34	17.95	57.24	171	172	P	V
			11100	44.63	-9.37	54	43.58	40.34	17.95	57.24	171	172	A	V
			16650	47.18	-26.82	74	40.9	39.8	22.57	56.09	100	0	P	V
802.11ac VHT40 CH 134 5670MHz		11340	58.29	-15.71	74	57.44	40.2	18.22	57.57	100	287	P	H	
		11340	44.77	-9.23	54	43.92	40.2	18.22	57.57	100	287	A	H	
		17010	48.31	-25.69	74	40.81	40.95	22.91	56.36	100	0	P	H	
													H	
			11340	57.85	-16.15	74	57	40.2	18.22	57.57	157	8	P	V
			11340	44.96	-9.04	54	44.11	40.2	18.22	57.57	157	8	A	V
			17010	47.77	-26.23	74	40.27	40.95	22.91	56.36	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 802.11ac 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 106 5530MHz		5468.24	64.56	-9.44	74	55.07	31.97	11.67	34.15	234	121	P	H
		5466.16	53.46	-0.54	54	43.97	31.97	11.67	34.15	234	121	A	H
	*	5530	107.62	-	-	98.04	32.02	11.7	34.14	234	121	P	H
	*	5530	96.12	-	-	86.54	32.02	11.7	34.14	234	121	A	H
		5733.08	58.13	-15.87	74	48.14	32.31	11.84	34.16	234	121	P	H
		5736.12	47.1	-6.9	54	37.08	32.34	11.84	34.16	234	121	A	H
		5469.84	60.45	-13.55	74	50.96	31.97	11.67	34.15	391	179	P	V
		5468.72	49.37	-4.63	54	39.88	31.97	11.67	34.15	391	179	A	V
	*	5530	102.48	-	-	92.9	32.02	11.7	34.14	391	179	P	V
	*	5530	92.07	-	-	82.49	32.02	11.7	34.14	391	179	A	V
		5755.72	58.57	-15.43	74	48.52	32.36	11.86	34.17	391	179	P	V
	5761.16	46.96	-7.04	54	36.91	32.36	11.86	34.17	391	179	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac 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 106 5530MHz		11060	47.5	-26.5	74	46.43	40.36	17.9	57.19	100	0	P	H	
		16590	46.19	-27.81	74	40.12	39.58	22.54	56.05	100	0	P	H	
													H	
													H	
			11060	47.66	-26.34	74	46.59	40.36	17.9	57.19	100	0	P	V
			16590	45.85	-28.15	74	39.78	39.58	22.54	56.05	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 802.11ac VHT40 Adapter Mode (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)	
802.11ac VHT40 LF		41.07	28.16	-11.84	40	37.98	19.74	0.78	30.34			P	H	
		79.41	36.36	-3.64	40	52.16	13.57	1.06	30.43	129	100	P	H	
		102.63	29.05	-14.45	43.5	41.7	16.33	1.43	30.41			P	H	
		310.5	26.79	-19.21	46	34.77	19.82	2.34	30.14			P	H	
		506.5	32.92	-13.08	46	35.47	24.06	3.19	29.8			P	H	
		738.2	31.12	-14.88	46	29.38	27.32	3.89	29.47			P	H	
														H
														H
														H
														H
														H
														H
			41.61	36.86	-3.14	40	47.26	19.18	0.78	30.36	198	263	P	V
			98.85	29.16	-14.34	43.5	42.63	15.88	1.06	30.41			P	V
			211.98	32.42	-11.08	43.5	44.92	16.08	1.7	30.28			P	V
			300.7	26.62	-19.38	46	34.9	19.53	2.34	30.15			P	V
			571.6	27.83	-18.17	46	29.35	24.88	3.3	29.7			P	V
			771.1	32.52	-13.48	46	30.3	27.68	3.97	29.43			P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



Emission below 1GHz

WIFI 802.11ac VHT40 POE Mode (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)	
802.11ac VHT40 LF		68.34	33.41	-6.59	40	50.55	12.25	1.06	30.45	101	143	P	H	
		117.75	29.85	-13.65	43.5	41.35	17.46	1.43	30.39			P	H	
		127.47	30.29	-13.21	43.5	41.36	17.88	1.43	30.38			P	H	
		316.8	23.98	-22.02	46	31.75	20.02	2.34	30.13			P	H	
		496	28.95	-17.05	46	31.78	23.91	3.08	29.82			P	H	
		952.4	34.68	-11.32	46	28.75	30.27	4.75	29.09			P	H	
														H
														H
														H
														H
														H
														H
			68.61	32.46	-7.54	40	49.6	12.25	1.06	30.45			P	V
			209.01	39.07	-4.43	43.5	51.59	16.07	1.7	30.29	111	6	P	V
			219	36.65	-9.35	46	49.21	16.01	1.7	30.27			P	V
			304.9	34.21	-11.79	46	42.37	19.64	2.34	30.14			P	V
			375.6	29.87	-16.13	46	35.88	21.61	2.44	30.06			P	V
			629	33.42	-12.58	46	33.68	25.75	3.61	29.62			P	V
														V
														V
													V	
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													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

- 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”.