

Report Number : FR1O1422C

A1. Conducted Test Results

Test Engineer:	Zhang Xue Yi	Temperature:	21~25	°C
Test Date:	2021/10/31	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	14.90	15.10	18.01	30.00		-1.00		17.01		36.00		Pass
11b	1Mbps	2	6	2437	15.30	15.40	18.36	30.00		-1.00		17.36		36.00		Pass
11b	1Mbps	2	11	2462	14.80	14.20	17.52	30.00		-1.00		16.52		36.00		Pass
11g	6Mbps	2	1	2412	16.10	16.00	19.06	30.00		-1.00		18.06		36.00		Pass
11g	6Mbps	2	6	2437	16.20	15.80	19.01	30.00		-1.00		18.01		36.00		Pass
11g	6Mbps	2	11	2462	15.80	15.20	18.52	30.00		-1.00		17.52		36.00		Pass
HT20	MCS0	2	1	2412	16.00	15.90	18.96	30.00		-1.00		17.96		36.00		Pass
HT20	MCS0	2	6	2437	16.10	15.70	18.91	30.00		-1.00		17.91		36.00		Pass
HT20	MCS0	2	11	2462	14.40	13.60	17.03	30.00		-1.00		16.03		36.00		Pass
HT40	MCS0	2	3	2422	15.90	15.60	18.76	30.00		-1.00		17.76		36.00		Pass
HT40	MCS0	2	6	2437	16.00	15.50	18.77	30.00		-1.00		17.77		36.00		Pass
HT40	MCS0	2	9	2452	12.80	12.10	15.47	30.00		-1.00		14.47		36.00		Pass
VHT20	MCS0	2	1	2412	15.90	15.80	18.86	30.00		-1.00		17.86		36.00		Pass
VHT20	MCS0	2	6	2437	16.00	15.60	18.81	30.00		-1.00		17.81		36.00		Pass
VHT20	MCS0	2	11	2462	14.20	13.20	16.74	30.00		-1.00		15.74		36.00		Pass
VHT40	MCS0	2	3	2422	15.80	15.50	18.66	30.00		-1.00		17.66		36.00		Pass
VHT40	MCS0	2	6	2437	15.90	15.40	18.67	30.00		-1.00		17.67		36.00		Pass
VHT40	MCS0	2	9	2452	12.60	11.90	15.27	30.00		-1.00		14.27		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NtX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	17.45	17.75	20.61	30.00		-1.00		19.61		36.00		Pass
11b	1Mbps	2	6	2437	17.86	17.93	20.91	30.00		-1.00		19.91		36.00		Pass
11b	1Mbps	2	11	2462	17.45	17.66	20.57	30.00		-1.00		19.57		36.00		Pass
11g	6Mbps	2	1	2412	23.26	23.24	26.26	30.00		-1.00		25.26		36.00		Pass
11g	6Mbps	2	6	2437	23.76	23.33	26.56	30.00		-1.00		25.56		36.00		Pass
11g	6Mbps	2	11	2462	23.35	22.75	26.07	30.00		-1.00		25.07		36.00		Pass
HT20	MCS0	2	1	2412	23.29	23.24	26.28	30.00		-1.00		25.28		36.00		Pass
HT20	MCS0	2	6	2437	23.64	23.26	26.46	30.00		-1.00		25.46		36.00		Pass
HT20	MCS0	2	11	2462	22.48	21.77	25.15	30.00		-1.00		24.15		36.00		Pass
HT40	MCS0	2	3	2422	23.18	22.84	26.02	30.00		-1.00		25.02		36.00		Pass
HT40	MCS0	2	6	2437	23.41	22.94	26.19	30.00		-1.00		25.19		36.00		Pass
HT40	MCS0	2	9	2452	20.75	20.11	23.45	30.00		-1.00		22.45		36.00		Pass
VHT20	MCS0	2	1	2412	23.11	23.06	26.10	30.00		-1.00		25.10		36.00		Pass
VHT20	MCS0	2	6	2437	23.46	23.08	26.28	30.00		-1.00		25.28		36.00		Pass
VHT20	MCS0	2	11	2462	22.36	21.54	24.98	30.00		-1.00		23.98		36.00		Pass
VHT40	MCS0	2	3	2422	22.93	22.58	25.77	30.00		-1.00		24.77		36.00		Pass
VHT40	MCS0	2	6	2437	23.16	22.69	25.94	30.00		-1.00		24.94		36.00		Pass
VHT40	MCS0	2	9	2452	20.58	19.87	23.25	30.00		-1.00		22.25		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	16.00	15.90	18.96	30.00		-1.00		17.96		36.00		Pass
HE20	MCS0	2	1	2412	26/0	6.00	5.80	8.91	30.00		-1.00		7.91		36.00		Pass
HE20	MCS0	2	1	2412	52/37	8.40	8.40	11.41	30.00		-1.00		10.41		36.00		Pass
HE20	MCS0	2	1	2412	106/53	11.90	12.40	15.17	30.00		-1.00		14.17		36.00		Pass
HE20	MCS0	2	6	2437	Full	16.10	15.70	18.91	30.00		-1.00		17.91		36.00		Pass
HE20	MCS0	2	11	2462	Full	13.80	13.00	16.43	30.00		-1.00		15.43		36.00		Pass
HE20	MCS0	2	11	2462	26/8	3.10	3.50	6.31	30.00		-1.00		5.31		36.00		Pass
HE20	MCS0	2	11	2462	52/40	5.50	5.60	8.56	30.00		-1.00		7.56		36.00		Pass
HE20	MCS0	2	11	2462	106/54	8.50	8.10	11.31	30.00		-1.00		10.31		36.00		Pass
HE40	MCS0	2	3	2422	Full	15.70	15.60	18.66	30.00		-1.00		17.66		36.00		Pass
HE40	MCS0	2	3	2422	242/61	15.60	15.50	18.56	30.00		-1.00		17.56		36.00		Pass
HE40	MCS0	2	6	2437	Full	16.00	15.50	18.77	30.00		-1.00		17.77		36.00		Pass
HE40	MCS0	2	9	2452	Full	12.60	12.00	15.32	30.00		-1.00		14.32		36.00		Pass
HE40	MCS0	2	9	2452	242/62	15.40	14.70	18.07	30.00		-1.00		17.07		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	23.86	23.75	26.82	30.00		-1.00		25.82		36.00		Pass
HE20	MCS0	2	1	2412	26/0	16.61	16.81	19.72	30.00		-1.00		18.72		36.00		Pass
HE20	MCS0	2	1	2412	52/37	19.11	19.64	22.39	30.00		-1.00		21.39		36.00		Pass
HE20	MCS0	2	1	2412	106/53	22.29	22.90	25.62	30.00		-1.00		24.62		36.00		Pass
HE20	MCS0	2	6	2437	Full	24.25	23.09	26.72	30.00		-1.00		25.72		36.00		Pass
HE20	MCS0	2	11	2462	Full	22.79	21.79	25.33	30.00		-1.00		24.33		36.00		Pass
HE20	MCS0	2	11	2462	26/8	14.28	14.36	17.33	30.00		-1.00		16.33		36.00		Pass
HE20	MCS0	2	11	2462	52/40	16.22	16.45	19.35	30.00		-1.00		18.35		36.00		Pass
HE20	MCS0	2	11	2462	106/54	19.04	18.89	21.98	30.00		-1.00		20.98		36.00		Pass
HE40	MCS0	2	3	2422	Full	23.45	23.41	26.44	30.00		-1.00		25.44		36.00		Pass
HE40	MCS0	2	3	2422	242/61	24.43	24.48	27.47	30.00		-1.00		26.47		36.00		Pass
HE40	MCS0	2	6	2437	Full	23.72	23.43	26.59	30.00		-1.00		25.59		36.00		Pass
HE40	MCS0	2	9	2452	Full	21.19	20.36	23.81	30.00		-1.00		22.81		36.00		Pass
HE40	MCS0	2	9	2452	242/62	24.83	24.45	27.65	30.00		-1.00		26.65		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	2	1	2412	13.44	13.24	8.08	8.06	0.50	Pass
11b	1Mbps	2	6	2437	13.24	13.19	8.06	8.04	0.50	Pass
11b	1Mbps	2	11	2462	13.34	13.44	7.58	8.06	0.50	Pass
11g	6Mbps	2	1	2412	17.03	17.03	16.29	16.29	0.50	Pass
11g	6Mbps	2	6	2437	16.93	16.98	16.03	16.29	0.50	Pass
11g	6Mbps	2	11	2462	17.03	17.13	16.07	16.31	0.50	Pass
HT20	MCS0	2	1	2412	18.13	18.13	17.25	16.79	0.50	Pass
HT20	MCS0	2	6	2437	18.03	18.08	16.79	16.79	0.50	Pass
HT20	MCS0	2	11	2462	18.08	18.18	17.17	17.51	0.50	Pass
HT40	MCS0	2	3	2422	36.16	36.06	35.32	35.30	0.50	Pass
HT40	MCS0	2	6	2437	36.06	36.06	35.34	35.10	0.50	Pass
HT40	MCS0	2	9	2452	36.06	36.06	35.30	35.30	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
HE20	MCS0	1	1	2412	Full	19.33	19.28	18.84	18.34	0.50	Pass
HE20	MCS0	1	6	2437	Full	19.28	19.28	18.66	18.47	0.50	Pass
HE20	MCS0	1	11	2462	Full	19.33	19.33	18.68	18.67	0.50	Pass
HE40	MCS0	1	3	2422	Full	37.86	37.76	37.42	36.54	0.50	Pass
HE40	MCS0	1	6	2437	Full	37.76	37.66	36.78	36.00	0.50	Pass
HE40	MCS0	1	9	2452	Full	37.66	37.86	36.86	36.70	0.50	Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	-10.19	-9.97	-6.96	0.64		8.00		Pass
11b	1Mbps	2	6	2437	-8.39	-8.56	-5.38	0.64		8.00		Pass
11b	1Mbps	2	11	2462	-9.74	-10.29	-6.73	0.64		8.00		Pass
11g	6Mbps	2	1	2412	-10.31	-10.45	-7.30	0.64		8.00		Pass
11g	6Mbps	2	6	2437	-10.44	-9.86	-6.85	0.64		8.00		Pass
11g	6Mbps	2	11	2462	-10.59	-10.99	-7.58	0.64		8.00		Pass
HT20	MCS0	2	1	2412	-8.51	-7.76	-4.75	0.64		8.00		Pass
HT20	MCS0	2	6	2437	-8.56	-8.41	-5.40	0.64		8.00		Pass
HT20	MCS0	2	11	2462	-9.14	-10.13	-6.13	0.64		8.00		Pass
HT40	MCS0	2	3	2422	-12.31	-12.86	-9.30	0.64		8.00		Pass
HT40	MCS0	2	6	2437	-12.36	-12.81	-9.35	0.64		8.00		Pass
HT40	MCS0	2	9	2452	-9.84	-13.29	-6.83	0.64		8.00		Pass

Measured power density (dBm) has offset with cable loss.

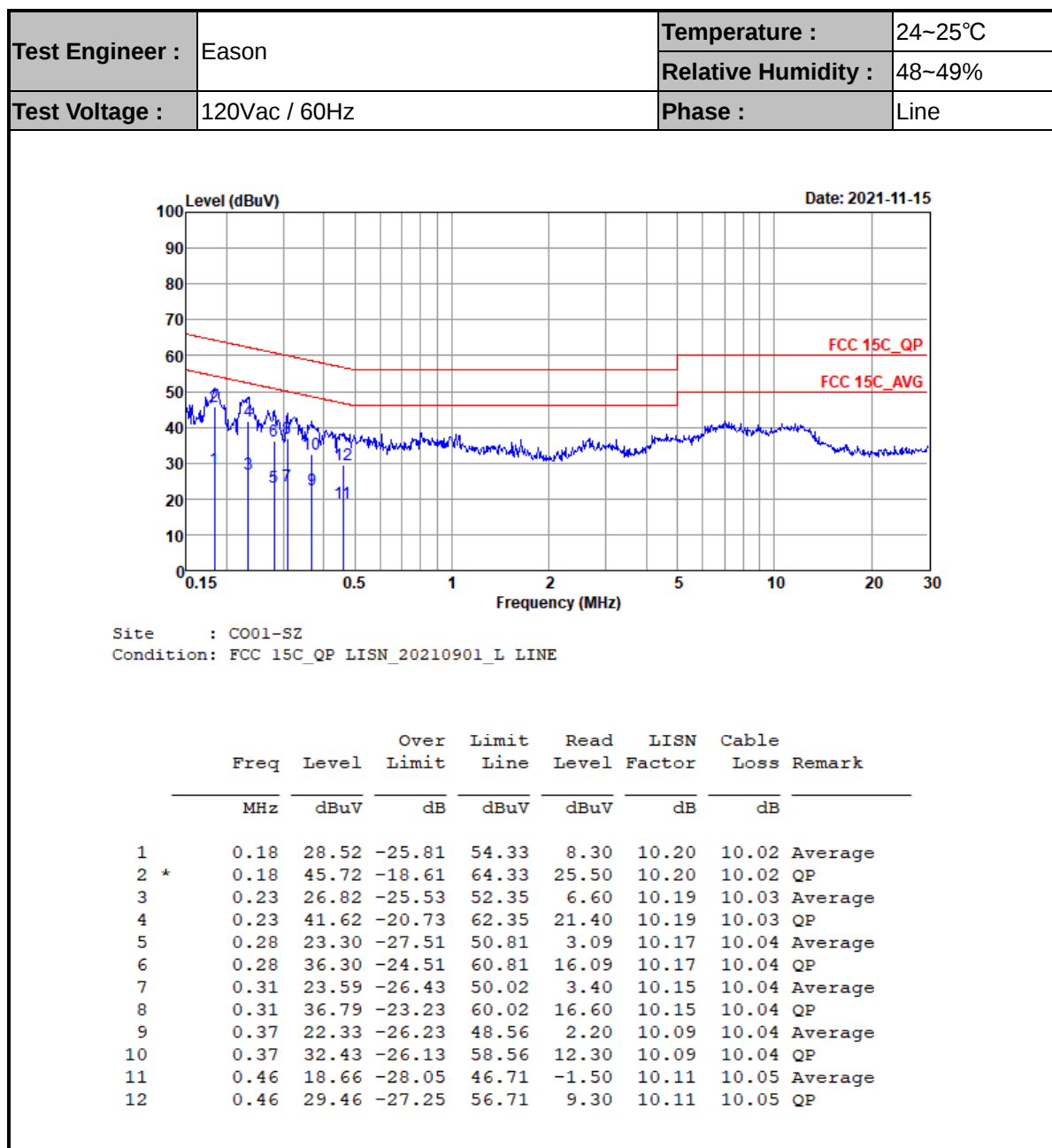
TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-10.65	-10.26	-7.25	0.64		8.00		Pass
HE20	MCS0	2	1	2412	26/0	-10.81	-10.64	-7.63	0.64		8.00		Pass
HE20	MCS0	2	1	2412	52/37	-10.74	-10.62	-7.61	0.64		8.00		Pass
HE20	MCS0	2	1	2412	106/53	-10.69	-10.56	-7.55	0.64		8.00		Pass
HE20	MCS0	2	6	2437	Full	-10.39	-10.41	-7.38	0.64		8.00		Pass
HE20	MCS0	2	11	2462	Full	-12.70	-13.87	-9.69	0.64		8.00		Pass
HE20	MCS0	2	11	2462	26/8	-14.98	-14.58	-11.57	0.64		8.00		Pass
HE20	MCS0	2	11	2462	52/40	-14.68	-14.27	-11.26	0.64		8.00		Pass
HE20	MCS0	2	11	2462	106/54	-13.85	-14.53	-10.84	0.64		8.00		Pass
HE40	MCS0	2	3	2422	Full	-12.16	-13.38	-9.15	0.64		8.00		Pass
HE40	MCS0	2	3	2422	242/61	-11.00	-10.90	-7.89	0.64		8.00		Pass
HE40	MCS0	2	6	2437	Full	-11.82	-13.11	-8.81	0.64		8.00		Pass
HE40	MCS0	2	9	2452	Full	-11.79	-13.18	-8.78	0.64		8.00		Pass
HE40	MCS0	2	9	2452	242/62	-9.83	-10.36	-6.82	0.64		8.00		Pass

Measured power density (dBm) has offset with cable loss.

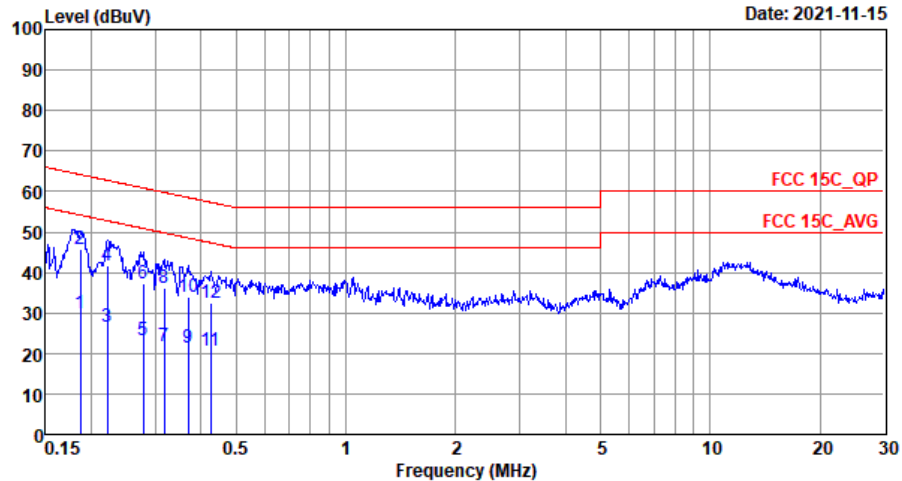


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Eason	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-SZ
Condition: FCC 15C_QP LISN_20210901_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.19	29.92	-24.28	54.20	9.60	10.29	10.03	Average
2 *	0.19	45.92	-18.28	64.20	25.60	10.29	10.03	QP
3	0.22	26.60	-26.14	52.74	6.30	10.27	10.03	Average
4	0.22	41.80	-20.94	62.74	21.50	10.27	10.03	QP
5	0.28	23.16	-27.74	50.90	2.89	10.23	10.04	Average
6	0.28	37.36	-23.54	60.90	17.09	10.23	10.04	QP
7	0.32	21.74	-28.06	49.80	1.50	10.20	10.04	Average
8	0.32	36.14	-23.66	59.80	15.90	10.20	10.04	QP
9	0.37	21.32	-27.20	48.52	1.10	10.18	10.04	Average
10	0.37	33.92	-24.60	58.52	13.70	10.18	10.04	QP
11	0.43	20.74	-26.59	47.33	0.50	10.19	10.05	Average
12	0.43	32.64	-24.69	57.33	12.40	10.19	10.05	QP

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2310	55.72	-18.28	74	50.17	31.57	5.45	31.47	165	241	P	H
		2388.12	45.18	-8.82	54	39.17	31.7	5.55	31.24	165	241	A	H
	*	2412	107.16	-	-	100.95	31.8	5.57	31.16	165	241	P	H
	*	2412	103.25	-	-	97.04	31.8	5.57	31.16	165	241	A	H
		2351.685	56.13	-17.87	74	50.26	31.7	5.51	31.34	252	88	P	V
		2390	44.97	-9.03	54	38.95	31.7	5.55	31.23	252	88	A	V
	*	2412	101.04	-	-	94.83	31.8	5.57	31.16	252	88	P	V
	*	2412	97.24	-	-	91.03	31.8	5.57	31.16	252	88	A	V
802.11b CH 06 2437MHz		2355.92	55.22	-18.78	74	49.34	31.7	5.51	31.33	117	236	P	H
		2389.24	44.49	-9.51	54	38.47	31.7	5.55	31.23	117	236	A	H
	*	2437	107.38	-	-	100.86	32	5.61	31.09	117	236	P	H
	*	2437	102.9	-	-	96.38	32	5.61	31.09	117	236	A	H
		2498.18	56.14	-17.86	74	49.27	32.1	5.68	30.91	117	236	P	H
		2499.44	45.46	-8.54	54	38.58	32.1	5.68	30.9	117	236	A	H
		2387.98	56.01	-17.99	74	50	31.7	5.55	31.24	247	77	P	V
		2387.84	44.8	-9.2	54	38.79	31.7	5.55	31.24	247	77	A	V
	*	2437	101.47	-	-	94.95	32	5.61	31.09	247	77	P	V
	*	2437	97.27	-	-	90.75	32	5.61	31.09	247	77	A	V
		2488.1	56.12	-17.88	74	49.28	32.1	5.68	30.94	247	77	P	V
		2499.86	45.66	-8.34	54	38.78	32.1	5.68	30.9	247	77	A	V



802.11b CH 11 2462MHz	*	2462	107.05	-	-	100.39	32.03	5.64	31.01	158	235	P	H
	*	2462	101.76	-	-	95.1	32.03	5.64	31.01	158	235	A	H
		2485.72	56.26	-17.74	74	49.47	32.07	5.66	30.94	158	235	P	H
		2485.48	45.45	-8.55	54	38.66	32.07	5.66	30.94	158	235	A	H
	*	2462	101.04	-	-	94.38	32.03	5.64	31.01	266	86	P	V
	*	2462	94.77	-	-	88.11	32.03	5.64	31.01	266	86	A	V
		2490.64	57	-17	74	50.15	32.1	5.68	30.93	266	86	P	V
		2498.48	45.32	-8.68	54	38.44	32.1	5.68	30.9	266	86	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)
802.11b CH 01 2412MHz		4824	43.62	-30.38	74	58.59	33.8	8.71	57.48	-	-	P	H
		4824	42.98	-31.02	74	57.95	33.8	8.71	57.48	-	-	P	V
802.11b CH 06 2437MHz		4874	43.09	-30.91	74	58.09	33.73	8.79	57.52	-	-	P	H
		7311	46.42	-27.58	74	58.53	35.72	11.09	58.92	-	-	P	H
		4874	42.75	-31.25	74	57.75	33.73	8.79	57.52	-	-	P	V
		7311	46.85	-27.15	74	58.96	35.72	11.09	58.92	-	-	P	V
802.11b CH 11 2462MHz		4924	42.24	-31.76	74	57.19	33.7	8.9	57.55	-	-	P	H
		7386	45.73	-28.27	74	57.84	35.76	11.08	58.95	-	-	P	H
		4924	41.73	-32.27	74	56.68	33.7	8.9	57.55	-	-	P	V
		7386	45.92	-28.08	74	58.03	35.76	11.08	58.95	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+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)
802.11g CH 01 2412MHz		2358.72	55.9	-18.1	74	50.01	31.7	5.51	31.32	215	300	P	H
		2389.275	45.87	-8.13	54	39.85	31.7	5.55	31.23	215	300	A	H
	*	2412	108.86	-	-	102.65	31.8	5.57	31.16	215	300	P	H
	*	2412	98.16	-	-	91.95	31.8	5.57	31.16	215	300	A	H
		2368.59	55.52	-18.48	74	49.58	31.7	5.53	31.29	318	95	P	V
		2388.435	45.06	-8.94	54	39.04	31.7	5.55	31.23	318	95	A	V
	*	2412	103.45	-	-	97.24	31.8	5.57	31.16	318	95	P	V
	*	2412	94.04	-	-	87.83	31.8	5.57	31.16	318	95	A	V
802.11g CH 06 2437MHz		2383.5	55.84	-18.16	74	49.86	31.7	5.53	31.25	145	291	P	H
		2388.12	44.61	-9.39	54	38.6	31.7	5.55	31.24	145	291	A	H
	*	2437	108.84	-	-	102.32	32	5.61	31.09	145	291	P	H
	*	2437	98.73	-	-	92.21	32	5.61	31.09	145	291	A	H
		2487.75	56.72	-17.28	74	49.88	32.1	5.68	30.94	145	291	P	H
		2498.81	45.54	-8.46	54	38.66	32.1	5.68	30.9	145	291	A	H
		2351.44	55.6	-18.4	74	49.76	31.7	5.49	31.35	315	92	P	V
		2389.8	44.6	-9.4	54	38.58	31.7	5.55	31.23	315	92	A	V
	*	2437	102.29	-	-	95.77	32	5.61	31.09	315	92	P	V
	*	2437	93.18	-	-	86.66	32	5.61	31.09	315	92	A	V
		2493.21	56.36	-17.64	74	49.5	32.1	5.68	30.92	315	92	P	V
		2495.73	45.55	-8.45	54	38.68	32.1	5.68	30.91	315	92	A	V



802.11g CH 11 2462MHz	*	2462	109.23	-	-	102.57	32.03	5.64	31.01	117	299	P	H
	*	2462	99.26	-	-	92.6	32.03	5.64	31.01	117	299	A	H
		2483.92	58.49	-15.51	74	51.71	32.07	5.66	30.95	117	299	P	H
		2483.52	47.85	-6.15	54	41.07	32.07	5.66	30.95	117	299	A	H
	*	2462	102.84	-	-	96.18	32.03	5.64	31.01	340	88	P	V
	*	2462	93.53	-	-	86.87	32.03	5.64	31.01	340	88	A	V
		2486.72	56.1	-17.9	74	49.31	32.07	5.66	30.94	340	88	P	V
		2483.52	45.82	-8.18	54	39.04	32.07	5.66	30.95	340	88	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (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)
802.11g CH 01 2412MHz		4824	42.47	-31.53	74	57.44	33.8	8.71	57.48	-	-	P	H
		4824	42.45	-31.55	74	57.42	33.8	8.71	57.48	-	-	P	V
802.11g CH 06 2437MHz		4874	42.55	-31.45	74	57.55	33.73	8.79	57.52	-	-	P	H
		7311	46.66	-27.34	74	58.77	35.72	11.09	58.92	-	-	P	H
		4874	42.34	-31.66	74	57.34	33.73	8.79	57.52	-	-	P	V
		7311	46.63	-27.37	74	58.74	35.72	11.09	58.92	-	-	P	V
802.11g CH 11 2462MHz		4924	42.92	-31.08	74	57.87	33.7	8.9	57.55	-	-	P	H
		7386	45.74	-28.26	74	57.85	35.76	11.08	58.95	-	-	P	H
		4924	42.87	-31.13	74	57.82	33.7	8.9	57.55	-	-	P	V
		7386	47.28	-26.72	74	59.39	35.76	11.08	58.95	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+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 01 2412MHz		2333.625	55.95	-18.05	74	50.25	31.63	5.47	31.4	100	266	P	H
		2390	45.62	-8.38	54	39.6	31.7	5.55	31.23	100	266	A	H
	*	2412	108.34	-	-	102.13	31.8	5.57	31.16	100	266	P	H
	*	2412	98.74	-	-	92.53	31.8	5.57	31.16	100	266	A	H
		2364.285	55.58	-18.42	74	49.68	31.7	5.51	31.31	317	106	P	V
		2390	44.71	-9.29	54	38.69	31.7	5.55	31.23	317	106	A	V
	*	2412	102.03	-	-	95.82	31.8	5.57	31.16	317	106	P	V
	*	2412	92.37	-	-	86.16	31.8	5.57	31.16	317	106	A	V
802.11n HT20 CH 06 2437MHz		2363.2	55.28	-18.72	74	49.38	31.7	5.51	31.31	142	304	P	H
		2389.94	44.62	-9.38	54	38.6	31.7	5.55	31.23	142	304	A	H
	*	2437	108.18	-	-	101.66	32	5.61	31.09	142	304	P	H
	*	2437	98.44	-	-	91.92	32	5.61	31.09	142	304	A	H
		2496.36	56.02	-17.98	74	49.15	32.1	5.68	30.91	142	304	P	H
		2486.84	45.5	-8.5	54	38.71	32.07	5.66	30.94	142	304	A	H
		2382.66	55.12	-18.88	74	49.14	31.7	5.53	31.25	238	89	P	V
		2388.12	44.57	-9.43	54	38.56	31.7	5.55	31.24	238	89	A	V
	*	2437	101.62	-	-	95.1	32	5.61	31.09	238	89	P	V
	*	2437	92.94	-	-	86.42	32	5.61	31.09	238	89	A	V
		2483.69	55.97	-18.03	74	49.19	32.07	5.66	30.95	238	89	P	V
		2494.05	45.45	-8.55	54	38.59	32.1	5.68	30.92	238	89	A	V



802.11n HT20 CH 11 2462MHz	*	2462	107.84	-	-	101.18	32.03	5.64	31.01	113	274	P	H
	*	2462	97.73	-	-	91.07	32.03	5.64	31.01	113	274	A	H
		2483.64	58.27	-15.73	74	51.49	32.07	5.66	30.95	113	274	P	H
		2483.52	47.98	-6.02	54	41.2	32.07	5.66	30.95	113	274	A	H
	*	2462	99.37	-	-	92.71	32.03	5.64	31.01	269	72	P	V
	*	2462	89.22	-	-	82.56	32.03	5.64	31.01	269	72	A	V
		2495.16	56.18	-17.82	74	49.31	32.1	5.68	30.91	269	72	P	V
		2483.52	45.73	-8.27	54	38.95	32.07	5.66	30.95	269	72	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n 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)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	42.69	-31.31	74	57.66	33.8	8.71	57.48	-	-	P	H
		4824	42.73	-31.27	74	57.7	33.8	8.71	57.48	-	-	P	V
802.11n HT20 CH 06 2437MHz		4874	41.77	-32.23	74	56.77	33.73	8.79	57.52	-	-	P	H
		7311	47.88	-26.12	74	59.99	35.72	11.09	58.92	-	-	P	H
		4874	42.85	-31.15	74	57.85	33.73	8.79	57.52	-	-	P	V
		7311	46.19	-27.81	74	58.3	35.72	11.09	58.92	-	-	P	V
802.11n HT20 CH 11 2462MHz		4924	43.18	-30.82	74	58.13	33.7	8.9	57.55	-	-	P	H
		7386	46.9	-27.1	74	59.01	35.76	11.08	58.95	-	-	P	H
		4924	43.41	-30.59	74	58.36	33.7	8.9	57.55	-	-	P	V
		7386	46.86	-27.14	74	58.97	35.76	11.08	58.95	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+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 03 2422MHz		2389.66	54.02	-19.98	74	48	31.7	5.55	31.23	127	281	P	H
		2389.94	44.92	-9.08	54	38.9	31.7	5.55	31.23	127	281	A	H
	*	2422	105.44	-	-	99.08	31.9	5.59	31.13	127	281	P	H
	*	2422	95.83	-	-	89.47	31.9	5.59	31.13	127	281	A	H
		2485.79	53.35	-20.65	74	46.56	32.07	5.66	30.94	127	281	P	H
		2483.5	42.26	-11.74	54	35.48	32.07	5.66	30.95	127	281	A	H
		2370.34	52.12	-21.88	74	46.18	31.7	5.53	31.29	313	113	P	V
		2389.94	41.07	-12.93	54	35.05	31.7	5.55	31.23	313	113	A	V
	*	2422	99.04	-	-	92.68	31.9	5.59	31.13	313	113	P	V
	*	2422	88.95	-	-	82.59	31.9	5.59	31.13	313	113	A	V
		2489.36	51.86	-22.14	74	45.01	32.1	5.68	30.93	313	113	P	V
		2498.88	41.61	-12.39	54	34.73	32.1	5.68	30.9	313	113	A	V
802.11n HT40 CH 06 2437MHz		2379.3	55.43	-18.57	74	49.46	31.7	5.53	31.26	119	274	P	H
		2389.8	45.04	-8.96	54	39.02	31.7	5.55	31.23	119	274	A	H
	*	2437	106.35	-	-	99.83	32	5.61	31.09	119	274	P	H
	*	2437	95.15	-	-	88.63	32	5.61	31.09	119	274	A	H
		2498.11	56.83	-17.17	74	49.96	32.1	5.68	30.91	119	274	P	H
		2486.63	45.85	-8.15	54	39.06	32.07	5.66	30.94	119	274	A	H
		2381.68	55.73	-18.27	74	49.75	31.7	5.53	31.25	244	88	P	V
		2389.8	44.71	-9.29	54	38.69	31.7	5.55	31.23	244	88	A	V
	*	2437	99.19	-	-	92.67	32	5.61	31.09	244	88	P	V
	*	2437	89.9	-	-	83.38	32	5.61	31.09	244	88	A	V
		2490.41	56.23	-17.77	74	49.38	32.1	5.68	30.93	244	88	P	V
		2485.09	45.56	-8.44	54	38.77	32.07	5.66	30.94	244	88	A	V



802.11n HT40 CH 09 2452MHz	*	2389.1	51.98	-22.02	74	45.96	31.7	5.55	31.23	101	249	P	H
	*	2389.94	40.86	-13.14	54	34.84	31.7	5.55	31.23	101	249	A	H
		2452	103.02	-	-	96.45	32	5.61	31.04	101	249	P	H
		2452	93.29	-	-	86.72	32	5.61	31.04	101	249	A	H
		2483.76	54.75	-19.25	74	47.97	32.07	5.66	30.95	101	249	P	H
		2483.5	45.08	-8.92	54	38.3	32.07	5.66	30.95	101	249	A	H
	*	2350.6	51.65	-22.35	74	45.81	31.7	5.49	31.35	311	322	P	V
	*	2389.38	40.7	-13.3	54	34.68	31.7	5.55	31.23	311	322	A	V
		2452	96.25	-	-	89.68	32	5.61	31.04	311	322	P	V
		2452	86.75	-	-	80.18	32	5.61	31.04	311	322	A	V
		2497.13	52.58	-21.42	74	45.71	32.1	5.68	30.91	311	322	P	V
		2483.5	42.81	-11.19	54	36.03	32.07	5.66	30.95	311	322	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802. 11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+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		4844	42.54	-31.46	74	57.49	33.8	8.74	57.49	-	-	P	H
HT40		7266	46.23	-27.77	74	58.23	35.71	11.19	58.9	-	-	P	H
CH 03		4844	43.18	-30.82	74	58.13	33.8	8.74	57.49	-	-	P	V
2422MHz		7266	46.06	-27.94	74	58.06	35.71	11.19	58.9	-	-	P	V
802.11n		4874	41.79	-32.21	74	56.79	33.73	8.79	57.52	-	-	P	H
HT40		7311	46.76	-27.24	74	58.87	35.72	11.09	58.92	-	-	P	H
CH 06		4874	43.28	-30.72	74	58.28	33.73	8.79	57.52	-	-	P	V
2437MHz		7311	46.25	-27.75	74	58.36	35.72	11.09	58.92	-	-	P	V
802.11n		4904	42.11	-31.89	74	57.08	33.7	8.86	57.53	-	-	P	H
HT40		7356	46.76	-27.24	74	58.88	35.74	11.08	58.94	-	-	P	H
CH 03		4904	43.53	-30.47	74	58.5	33.7	8.86	57.53	-	-	P	V
2452MHz		7356	46.64	-27.36	74	58.76	35.74	11.08	58.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 (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 01 2412MHz		2361.975	55.24	-18.76	74	49.34	31.7	5.51	31.31	217	270	P	H
		2390	45.21	-8.79	54	39.19	31.7	5.55	31.23	217	270	A	H
	*	2412	109.11	-	-	102.9	31.8	5.57	31.16	217	270	P	H
	*	2412	98.31	-	-	92.1	31.8	5.57	31.16	217	270	A	H
		2361.975	55.35	-18.65	74	49.45	31.7	5.51	31.31	318	92	P	V
		2389.59	44.74	-9.26	54	38.72	31.7	5.55	31.23	318	92	A	V
	*	2412	102.38	-	-	96.17	31.8	5.57	31.16	318	92	P	V
	*	2412	91.15	-	-	84.94	31.8	5.57	31.16	318	92	A	V
802.11n HT20 CH 06 2437MHz		2376.08	55.17	-18.83	74	49.21	31.7	5.53	31.27	140	276	P	H
		2389.8	44.77	-9.23	54	38.75	31.7	5.55	31.23	140	276	A	H
	*	2437	109.51	-	-	102.99	32	5.61	31.09	140	276	P	H
	*	2437	96.36	-	-	89.84	32	5.61	31.09	140	276	A	H
		2494.96	55.6	-18.4	74	48.74	32.1	5.68	30.92	140	276	P	H
		2496.71	45.53	-8.47	54	38.66	32.1	5.68	30.91	140	276	A	H
		2374.68	55.6	-18.4	74	49.65	31.7	5.53	31.28	239	86	P	V
		2389.8	44.74	-9.26	54	38.72	31.7	5.55	31.23	239	86	A	V
	*	2437	103.14	-	-	96.62	32	5.61	31.09	239	86	P	V
	*	2437	92.78	-	-	86.26	32	5.61	31.09	239	86	A	V
		2492.86	55.99	-18.01	74	49.13	32.1	5.68	30.92	239	86	P	V
		2498.46	45.63	-8.37	54	38.75	32.1	5.68	30.9	239	86	A	V



802.11n HT20 CH 11 2462MHz	*	2462	107.54	-	-	100.88	32.03	5.64	31.01	117	276	P	H
	*	2462	96.35	-	-	89.69	32.03	5.64	31.01	117	276	A	H
		2483.52	58.68	-15.32	74	51.9	32.07	5.66	30.95	117	276	P	H
		2483.52	47.92	-6.08	54	41.14	32.07	5.66	30.95	117	276	A	H
	*	2462	99.82	-	-	93.16	32.03	5.64	31.01	268	71	P	V
	*	2462	88.41	-	-	81.75	32.03	5.64	31.01	268	71	A	V
		2488	56.44	-17.56	74	49.6	32.1	5.68	30.94	268	71	P	V
		2483.52	45.75	-8.25	54	38.97	32.07	5.66	30.95	268	71	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802. 11ax HE20 (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 01 2412MHz		4824	43.24	-30.76	74	58.21	33.8	8.71	57.48	-	-	P	H
		4824	44.43	-29.57	74	59.4	33.8	8.71	57.48	-	-	P	V
802.11n HT20 CH 06 2437MHz		4874	42.42	-31.58	74	57.42	33.73	8.79	57.52	-	-	P	H
		7311	47.89	-26.11	74	60	35.72	11.09	58.92	-	-	P	H
		4874	42.79	-31.21	74	57.79	33.73	8.79	57.52	-	-	P	V
		7311	47.8	-26.2	74	59.91	35.72	11.09	58.92	-	-	P	V
802.11n HT20 CH 11 2462MHz		4924	42.37	-31.63	74	57.32	33.7	8.9	57.55	-	-	P	H
		7386	46.44	-27.56	74	58.55	35.76	11.08	58.95	-	-	P	H
		4924	43.01	-30.99	74	57.96	33.7	8.9	57.55	-	-	P	V
		7386	46.35	-27.65	74	58.46	35.76	11.08	58.95	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 (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 03 2422MHz		2389.8	54.37	-19.63	74	48.35	31.7	5.55	31.23	100	265	P	H
		2389.94	44.33	-9.67	54	38.31	31.7	5.55	31.23	100	265	A	H
	*	2422	107.3	-	-	100.94	31.9	5.59	31.13	100	265	P	H
	*	2422	95.37	-	-	89.01	31.9	5.59	31.13	100	265	A	H
		2488.38	52.12	-21.88	74	45.27	32.1	5.68	30.93	100	265	P	H
		2483.5	42.4	-11.6	54	35.62	32.07	5.66	30.95	100	265	A	H
		2389.24	52.73	-21.27	74	46.71	31.7	5.55	31.23	333	24	P	V
		2389.94	42.92	-11.08	54	36.9	31.7	5.55	31.23	333	24	A	V
	*	2422	103.46	-	-	97.1	31.9	5.59	31.13	333	24	P	V
	*	2422	91.4	-	-	85.04	31.9	5.59	31.13	333	24	A	V
		2495.31	52.49	-21.51	74	45.62	32.1	5.68	30.91	333	24	P	V
		2498.11	41.84	-12.16	54	34.97	32.1	5.68	30.91	333	24	A	V
802.11n HT40 CH 06 2437MHz		2373.28	55.53	-18.47	74	49.58	31.7	5.53	31.28	143	270	P	H
		2389.94	45.3	-8.7	54	39.28	31.7	5.55	31.23	143	270	A	H
	*	2437	106.59	-	-	100.07	32	5.61	31.09	143	270	P	H
	*	2437	96.19	-	-	89.67	32	5.61	31.09	143	270	A	H
		2485.37	55.97	-18.03	74	49.18	32.07	5.66	30.94	143	270	P	H
		2486.35	46.04	-7.96	54	39.25	32.07	5.66	30.94	143	270	A	H
		2382.66	55.34	-18.66	74	49.36	31.7	5.53	31.25	236	85	P	V
		2389.66	44.8	-9.2	54	38.78	31.7	5.55	31.23	236	85	A	V
	*	2437	102.46	-	-	95.93	32	5.61	31.09	236	85	P	V
	*	2437	90.37	-	-	83.85	32	5.61	31.09	236	85	A	V
		2493.63	56.97	-17.03	74	50.11	32.1	5.68	30.92	236	85	P	V
		2486.21	45.77	-8.23	54	38.98	32.07	5.66	30.94	236	85	A	V



802.11n HT40 CH 09 2452MHz	*	2370.2	51.76	-22.24	74	45.82	31.7	5.53	31.29	101	242	P	H
	*	2389.94	41.02	-12.98	54	35	31.7	5.55	31.23	101	242	A	H
		2452	105.4	-	-	98.83	32	5.61	31.04	101	242	P	H
		2452	92.74	-	-	86.17	32	5.61	31.04	101	242	A	H
		2483.55	54.41	-19.59	74	47.63	32.07	5.66	30.95	101	242	P	H
		2483.5	45.3	-8.7	54	38.52	32.07	5.66	30.95	101	242	A	H
	*	2354.52	52.22	-21.78	74	46.35	31.7	5.51	31.34	324	28	P	V
	*	2389.8	40.89	-13.11	54	34.87	31.7	5.55	31.23	324	28	A	V
		2452	100.45	-	-	93.88	32	5.61	31.04	324	28	P	V
		2452	88.46	-	-	81.89	32	5.61	31.04	324	28	A	V
		2484.46	53.13	-20.87	74	46.35	32.07	5.66	30.95	324	28	P	V
		2483.5	43.21	-10.79	54	36.43	32.07	5.66	30.95	324	28	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802. 11ax HE40 (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		4844	43.96	-30.04	74	58.91	33.8	8.74	57.49	-	-	P	H
HT40		7266	46.21	-27.79	74	58.21	35.71	11.19	58.9	-	-	P	H
CH 03		4844	43.05	-30.95	74	58	33.8	8.74	57.49	-	-	P	V
2422MHz		7266	47.32	-26.68	74	59.32	35.71	11.19	58.9	-	-	P	V
802.11n		4874	41.99	-32.01	74	56.99	33.73	8.79	57.52	-	-	P	H
HT40		7311	46.52	-27.48	74	58.63	35.72	11.09	58.92	-	-	P	H
CH 06		4874	42.98	-31.02	74	57.98	33.73	8.79	57.52	-	-	P	V
2437MHz		7311	46.91	-27.09	74	59.02	35.72	11.09	58.92	-	-	P	V
802.11n		4904	42.81	-31.19	74	57.78	33.7	8.86	57.53	-	-	P	H
HT40		7356	46.5	-27.5	74	58.62	35.74	11.08	58.94	-	-	P	H
CH 03		4904	42.61	-31.39	74	57.58	33.7	8.86	57.53	-	-	P	V
2452MHz		7356	47.16	-26.84	74	59.28	35.74	11.08	58.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		47.46	19.75	-20.25	40	32.38	20.27	2.17	35.07	-	-	P	H
		196.84	25.73	-17.77	43.5	41.58	16.51	2.74	35.1	154	248	P	H
		332.64	25.28	-20.72	46	36.33	20.63	3.22	34.9	-	-	P	H
		453.89	22.34	-23.66	46	30.51	23.22	3.31	34.7	-	-	P	H
		581.93	24.56	-21.44	46	29.87	25.43	3.8	34.54	-	-	P	H
		822.49	26.51	-19.49	46	28.42	28.39	4	34.3	-	-	P	H
		36.79	30.86	-9.14	40	44.52	19.36	1.98	35	124	245	P	V
		90.14	21.95	-21.55	43.5	40.86	13.92	2.35	35.18	-	-	P	V
		196.84	33.01	-10.49	43.5	48.86	16.51	2.74	35.1	-	-	P	V
		332.64	23.29	-22.71	46	34.34	20.63	3.22	34.9	-	-	P	V
		497.54	23.66	-22.34	46	31.11	23.79	3.46	34.7	-	-	P	V
		868.08	28.65	-17.35	46	30.12	28.7	4.13	34.3	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Partial RU

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 CH 01 2412MHz		2349.9	52.17	-21.83	74	46.33	31.7	5.49	31.35	100	75	P	H
		2390	41.07	-12.93	54	35.05	31.7	5.55	31.23	100	75	A	H
	*	2412	106.95	-	-	100.74	31.8	5.57	31.16	100	75	P	H
	*	2412	97.81	-	-	91.63	31.8	5.57	31.16	100	75	A	H
		2356.62	51.81	-22.19	74	45.93	31.7	5.51	31.33	183	257	P	V
		2389.905	40.82	-13.18	54	34.8	31.7	5.55	31.23	183	257	A	V
	*	2412	98.17	-	-	91.96	31.8	5.57	31.16	183	257	P	V
	*	2412	90.18	-	-	83.97	31.8	5.57	31.16	183	257	A	V
802.11ax HE20 CH 11 2462MHz	*	2462	108.77	-	-	102.11	32.03	5.64	31.01	100	96	P	H
	*	2462	98.39	-	-	91.73	32.03	5.64	31.01	100	96	A	H
		2484.72	52.94	-21.06	74	46.16	32.07	5.66	30.95	100	96	P	H
		2483.52	41.93	-12.07	54	35.15	32.07	5.66	30.95	100	96	A	H
	*	2462	99.4	-	-	92.74	32.03	5.64	31.01	192	250	P	V
	*	2462	89.23	-	-	82.57	32.03	5.64	31.01	192	250	A	V
		2488.6	53.58	-20.42	74	46.73	32.1	5.68	30.93	192	250	P	V
		2500	41.66	-12.34	54	34.78	32.1	5.68	30.9	192	250	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802. 11ax HE20 (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. 11ax HE20 CH 01 2412MHz		4824	43.45	-30.55	74	58.42	33.8	8.71	57.48	-	-	P	H
		4824	43.77	-30.23	74	58.74	33.8	8.71	57.48	-	-	P	V
802. 11ax HE20 CH 11 2462MHz		4924	43.04	-30.96	74	57.99	33.7	8.9	57.55	-	-	P	H
		7386	47.44	-26.56	74	59.55	35.76	11.08	58.95	-	-	P	H
		4924	42.93	-31.07	74	57.88	33.7	8.9	57.55	-	-	P	V
		7386	46.73	-27.27	74	58.84	35.76	11.08	58.95	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 (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. 11ax HE40 CH 03 2422MHz		2388.12	57.74	-16.26	74	51.73	31.7	5.55	31.24	100	302	P	H
		2389.66	43.66	-10.34	54	37.64	31.7	5.55	31.23	100	302	A	H
	*	2422	108.27	-	-	101.91	31.9	5.59	31.13	100	302	P	H
	*	2422	97.51	-	-	91.15	31.9	5.59	31.13	100	302	A	H
		2484.18	54.25	-19.75	74	47.47	32.07	5.66	30.95	100	302	P	H
		2499.65	41.62	-12.38	54	34.74	32.1	5.68	30.9	100	302	A	H
		2388.54	56.75	-17.25	74	50.73	31.7	5.55	31.23	334	20	P	V
		2389.94	41.69	-12.31	54	35.67	31.7	5.55	31.23	334	20	A	V
	*	2422	103.42	-	-	97.06	31.9	5.59	31.13	334	20	P	V
	*	2422	92	-	-	85.64	31.9	5.59	31.13	334	20	A	V
		2496.43	52.56	-21.44	74	45.69	32.1	5.68	30.91	334	20	P	V
		2499.86	41.61	-12.39	54	34.73	32.1	5.68	30.9	334	20	A	V
80211ax HE40 CH 09 2452MHz	*	2378.32	52.19	-21.81	74	46.23	31.7	5.53	31.27	100	261	P	H
	*	2389.66	40.95	-13.05	54	34.93	31.7	5.55	31.23	100	261	A	H
		2452	107.87	-	-	101.23	32.03	5.64	31.03	100	261	P	H
		2452	97.44	-	-	90.8	32.03	5.64	31.03	100	261	A	H
		2483.69	62.52	-11.48	74	55.74	32.07	5.66	30.95	100	261	P	H
		2483.5	47.31	-6.69	54	40.53	32.07	5.66	30.95	100	261	A	H
	*	2349.9	52.15	-21.85	74	46.31	31.7	5.49	31.35	317	45	P	V
	*	2388.82	40.73	-13.27	54	34.71	31.7	5.55	31.23	317	45	A	V
		2452	102.12	-	-	95.55	32	5.61	31.04	317	45	P	V
		2452	92.12	-	-	85.55	32	5.61	31.04	317	45	A	V
		2483.62	55.73	-18.27	74	48.95	32.07	5.66	30.95	317	45	P	V
		2483.62	42.83	-11.17	54	36.05	32.07	5.66	30.95	317	45	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802. 11ax HE40 (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. 11ax		4844	44.01	-29.99	74	58.96	33.8	8.74	57.49	-	-	P	H
HE40		7266	46.44	-27.56	74	58.44	35.71	11.19	58.9	-	-	P	H
CH 03		4844	44.65	-29.35	74	59.6	33.8	8.74	57.49	-	-	P	V
2422MHz		7266	46.47	-27.53	74	58.47	35.71	11.19	58.9	-	-	P	V
802. 11ax		4904	43.89	-30.11	74	58.86	33.7	8.86	57.53	-	-	P	H
HE40		7356	47.55	-26.45	74	59.67	35.74	11.08	58.94	-	-	P	H
CH 09		4904	43.76	-30.24	74	58.73	33.7	8.86	57.53	-	-	P	V
2452MHz		7356	47.34	-26.66	74	59.46	35.74	11.08	58.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Simultaneous transmission

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 03 2462MHz & LTE Band13	*	2462	107.5	-	-	100.84	32.03	5.64	31.01	120	137	P	H
	*	2462	95.79	-	-	89.13	32.03	5.64	31.01	120	137	A	H
		2483.68	56.41	-17.59	74	49.63	32.07	5.66	30.95	120	137	P	H
		2483.52	47.27	-6.73	54	40.49	32.07	5.66	30.95	120	137	A	H
	*	2462	102.83	-	-	96.17	32.03	5.64	31.01	314	4	P	V
	*	2462	93.28	-	-	86.62	32.03	5.64	31.01	314	4	A	V
		2491.92	53.06	-20.94	74	46.2	32.1	5.68	30.92	314	4	P	V
		2483.52	44.89	-9.11	54	38.11	32.07	5.66	30.95	314	4	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n 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 11 2462MHz & LTE Band13		1559.5	37.95	-36.05	74	63.33	28.1	4.43	57.91	-	-	P	H
		2339.25	40.77	-33.23	74	61.34	31.7	5.49	57.76	-	-	P	H
		3119	41.56	-32.44	74	59.41	32.95	6.45	57.25	-	-	P	H
		4924	42.39	-31.61	74	57.34	33.7	8.9	57.55	-	-	P	H
		7386	45.17	-28.83	74	57.28	35.76	11.08	58.95	-	-	P	H
		1559.5	39.47	-34.53	74	64.85	28.1	4.43	57.91	-	-	P	V
		2339.25	43.68	-30.32	74	64.25	31.7	5.49	57.76	-	-	P	V
		3119	41.77	-32.23	74	59.62	32.95	6.45	57.25	-	-	P	V
		4924	43.22	-30.78	74	58.17	33.7	8.9	57.55	-	-	P	V
		7386	46.47	-27.53	74	58.58	35.76	11.08	58.95	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Note symbol

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



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

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

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)

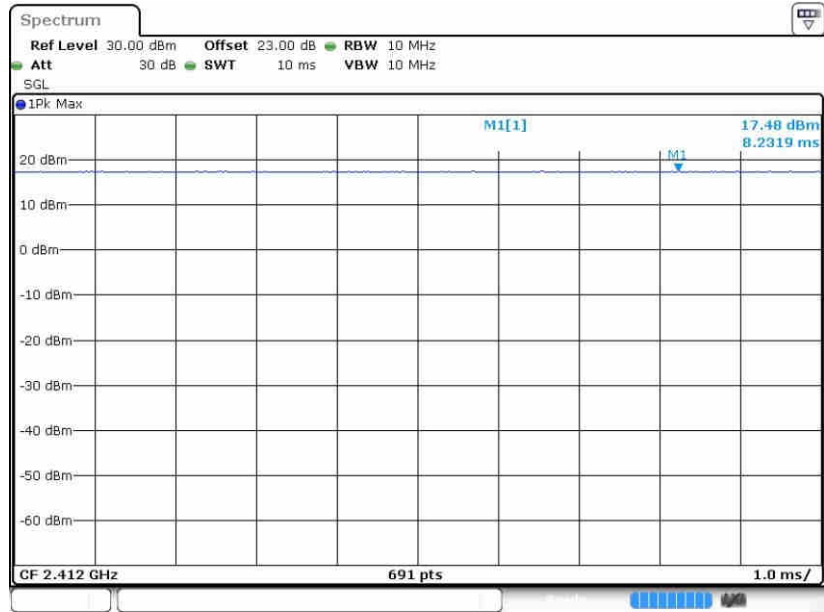
Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11g	98.97	-	-	10Hz
802.11n HT20	100	-	-	10Hz
802.11n HT40	100	-	-	10Hz
802.11ax HE20	100	-	-	10Hz
802.11ax HE40	100	-	-	10Hz

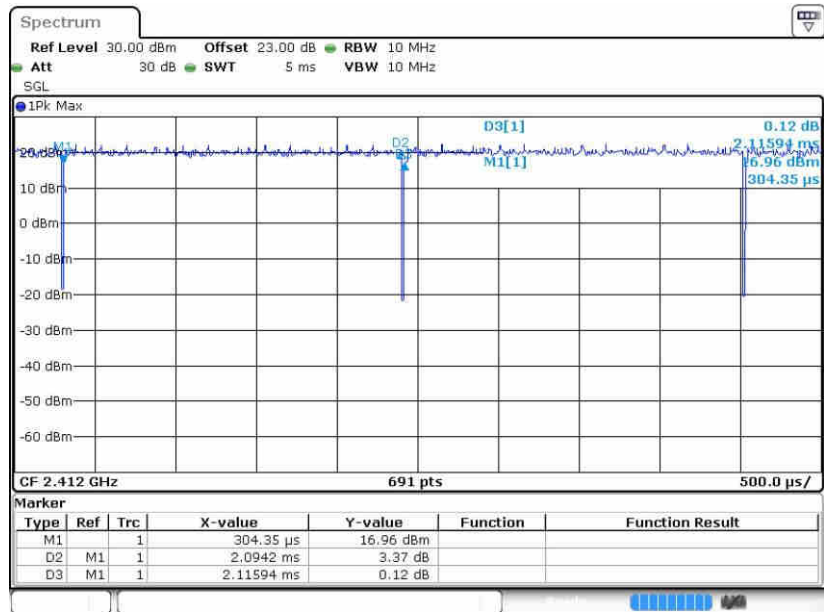


802.11b



Date: 21.OCT.2021 22:35:09

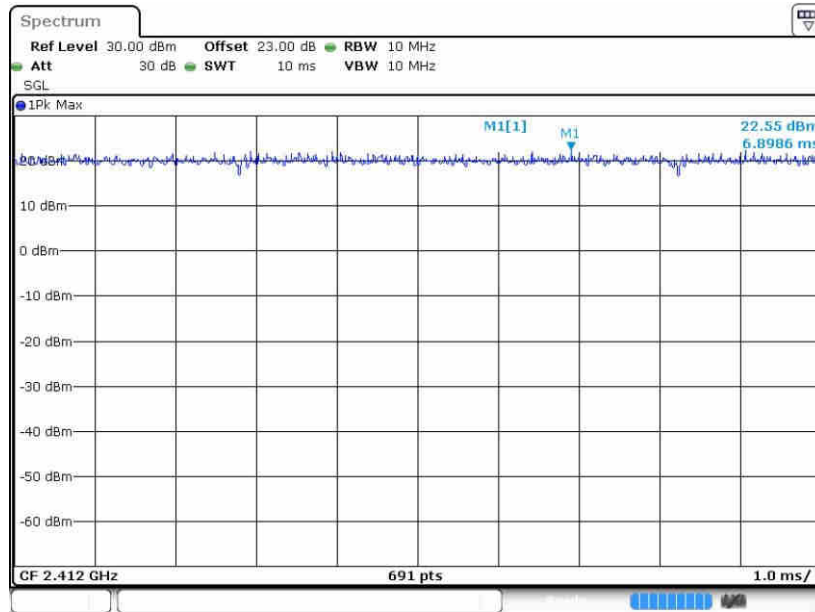
802.11g



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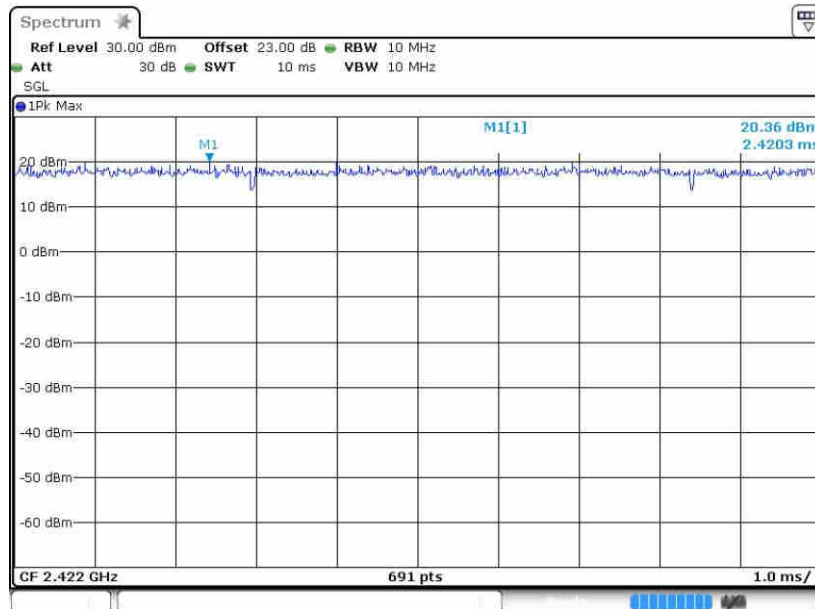


802.11n HT20



Date: 21.OCT.2021 22:41:38

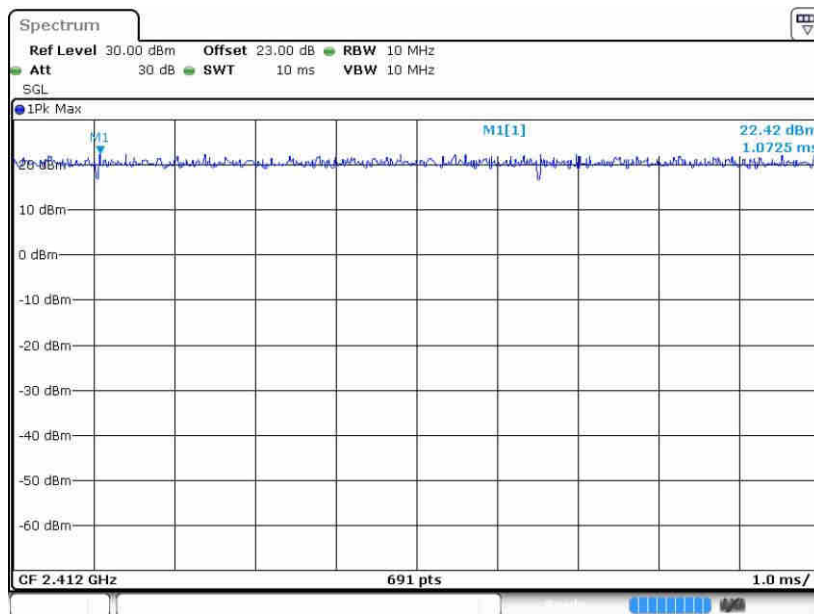
802.11n HT40



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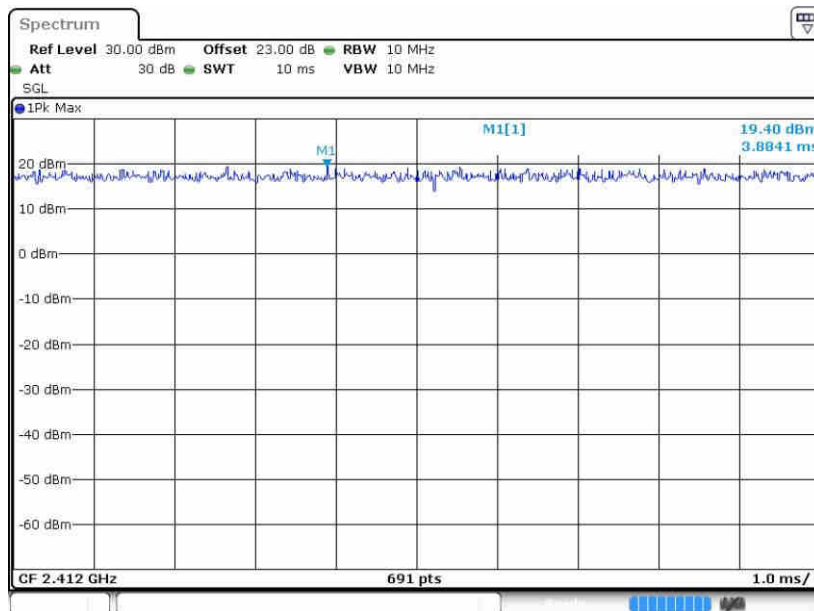


802.11ax HE20



Date: 21.OCT.2021 22:44:59

802.11ax HE40



Date: 21.OCT.2021 22:46:07