

For Antenna A

 PSD(Power Spectral Density ) RBW=100kHz

 Test Model
 □802.11b
 □802.11g
 □802.11n(HT20)
 □802.11n(HT40)

 □Channel 1: 2412MHz
 □Channel 3: 2422MHz







Band edge

□802.11b □802.11g

☐802.11n(HT20) ☐ Channel 3: 2422MHz

☐802.11n(HT40)

Channel 1: 2412MHz Channel 3: 2422MF

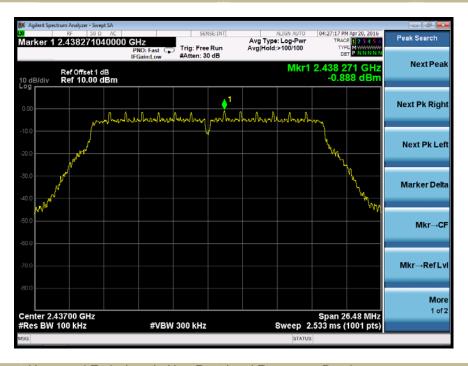




PSD(Power Spectral Density ) RBW=100kHz

 □802.11b
 □802.11g
 □802.11n(HT20)
 □802.11n(HT40)

Channel 6: 2437MHz



Test Model

Unwanted Emissions In Non-Restricted Frequency Bands

☐802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)

Channel 6: 2437MHz





□802.11b □802.11g □802.11n(HT20) □802.11n(HT40)





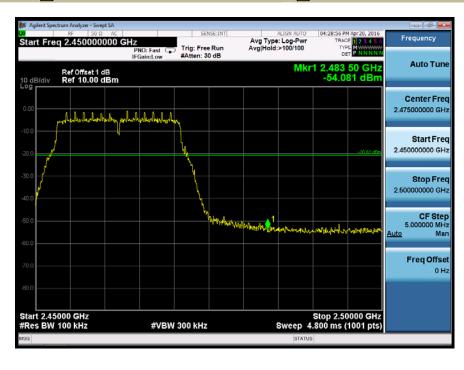




Band edge

□802.11b ⊠802.11g Channel 11: 2462MHz

☐802.11n(HT20) ☐802.11n(HT40) ☐Channel 9: 2452MHz





For Antenna B

 PSD(Power Spectral Density ) RBW=100kHz

 Test Model

 □802.11b
 □802.11g
 □Channel 1: 2412MHz
 □Channel 3: 2422MHz
 □Channel 3: 2422MHz
 □Channel 3: 2422MHz
 □Channel 3: 2422MHz



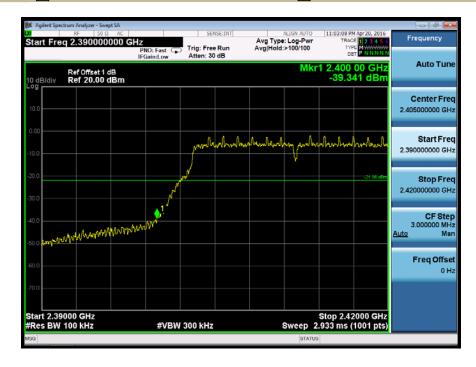




 Band edge

 Test Model
 □802.11b
 □802.11g
 □802.11n(HT20)
 □802.11n(HT40)

 □Channel 1: 2412MHz
 □Channel 3: 2422MHz





PSD(Power Spectral Density ) RBW=100kHz

 □802.11b
 □802.11g
 □802.11n(HT20)
 □802.11n(HT40)

Channel 6: 2437MHz



Test Model

Unwanted Emissions In Non-Restricted Frequency Bands

☐802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)

Channel 6: 2437MHz





□802.11b □802.11g □802.11n(HT20) □802.11n(HT40)
□Channel 11: 2462MHz □Channel 9: 2452MHz







Band edge

□802.11b ⊠802.11g Channel 11: 2462MHz

☐802.11n(HT20) ☐802.11n(HT40) ☐Channel 9: 2452MHz





#### 8.5 RADIATED SPURIOUS EMISSION

### 8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 DTS 01 Meas. Guidance v03r05

#### 8.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

200; rtoothiotod barrao		
MHz	MHz	GHz
16.42-16.423	399.9-410	4.5-5.15
16.69475-16.69525	608-614	5.35-5.46
16.80425-16.80475	960-1240	7.25-7.75
25.5-25.67	1300-1427	8.025-8.5
37.5-38.25	1435-1626.5	9.0-9.2
73-74.6	1645.5-1646.5	9.3-9.5
74.8-75.2	1660-1710	10.6-12.7
123-138	2200-2300	14.47-14.5
149.9-150.05	2310-2390	15.35-16.2
156.52475-156.52525	2483.5-2500	17.7-21.4
156.7-156.9	2690-2900	22.01-23.12
162.0125-167.17	3260-3267	23.6-24.0
167.72-173.2	3332-3339	31.2-31.8
240-285	3345.8-3358	36.43-36.5
322-335.4	3600-4400	(2)
	16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	16.42-16.423       399.9-410         16.69475-16.69525       608-614         16.80425-16.80475       960-1240         25.5-25.67       1300-1427         37.5-38.25       1435-1626.5         73-74.6       1645.5-1646.5         74.8-75.2       1660-1710         123-138       2200-2300         149.9-150.05       2310-2390         156.52475-156.52525       2483.5-2500         156.7-156.9       2690-2900         162.0125-167.17       3260-3267         167.72-173.2       3332-3339         240-285       3345.8-3358

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	2400/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



# 8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

#### 8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

 $VBW \ge RBW$ 

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

 $VBW \geq RBW$ 

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

 $\overrightarrow{RBW} = 9kHz$ 

 $VBW \geq RBW$ 

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

 $VBW \geq RBW$ 

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data. Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.



# 8.5.5 Test Results

Spurious Emission below 30MHz (9KHz to 30MHz)

**24**℃ Test Date: N/A Temperature: Humidity: 53 % Test By: N/A Test mode: TX Mode

Freq.	Ant.Pol.		ssion BuV/m)	Limit 3m(	(dBuV/m)	Over(dB)		
(MHz)	H/V	PK ÀV		PK	AV	PK	AV	
			-		-	-		

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor



### ■ Spurious Emission Above 1GHz (1GHz to 25GHz)

All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11nHT20 recorded was report as below:

Temperature :  $28^{\circ}$ C Test Date : April 26, 2016 Humidity : 65 % Test By: King Kong

Test mode: 802.11nHT20 Frequency: Channel 1: 2412MHz

Freq.	Ant.P ol.	Emission Lev	/el(dBuV/m)	Limit 3m	(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
7002.04	V	40.61	25.94	74.00	54.00	-33.39	-28.06	
8838.05	V	42.57	26.90	74.00	54.00	-31.43	-27.10	
11062.66	V	46.09	29.70	74.00	54.00	-27.91	-24.30	
				1				
				ı		ŀ	-	
				ı		ŀ	-	
5982.07	Н	40.84	25.28	74.00	54.00	-33.16	-28.72	
7920.10	Н	41.68	27.09	74.00	54.00	-32.32	-26.91	
9719.57	Н	45.57	29.96	74.00	54.00	-28.43	-24.04	

Temperature :  $28^{\circ}$ C Test Date : April 26, 2016 Humidity : 65 % Test By: King Kong

Test mode: 802.11nHT20 Frequency: Channel 6: 2437MHz

Freq.	Ant.P ol.	Emission Lev	/el(dBuV/m)	Limit 3m	(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
7172.10	V	41.64	26.39	74.00	54.00	-32.36	-27.61	
7934.57	V	42.80	28.16	74.00	54.00	-31.20	-25.84	
9041.98	V	44.18	29.68	74.00	54.00	-29.82	-24.32	
				1		-		
				1		-		
				ı		1	-	
6931.49	Н	40.22	25.99	74.00	54.00	-33.78	-28.01	
9158.54	Н	44.38	29.17	74.00	54.00	-29.62	-24.83	
11778.98	Н	48.41	32.85	74.00	54.00	-25.59	-21.15	

Temperature :  $28^{\circ}$  Test Date : April 26, 2016 Humidity : 65 % Test By: King Kong

Test mode: 802.11nHT20 Frequency: Channel 11: 2462MHz

Freq.	Ant.P ol.	. I Emission Level(dBiJV/m) I			(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
4942.48	V	39.75	24.64	74.00	54.00	-34.25	-29.36	
7359.01	V	41.60	26.16	74.00	54.00	-32.40	-27.84	
10467.49	V	44.80	29.89	74.00	54.00	-29.20	-24.11	
				-			-	
				-		ŀ	ı	
8852.51	Н	42.32	25.99	74.00	54.00	-31.68	-28.01	
9738.99	Н	45.06	29.15	74.00	54.00	-28.94	-24.85	
11861.52	Н	47.25	32.66	74.00	54.00	-26.75	-21.34	

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11nHT20 recorded was report as below:

Temperature :  $28^{\circ}$ C Test Date : April 26, 2016 Humidity : 65 % Test By: King Kong

Test mode: 802.11nHT20 Frequency: Channel 3: 2422MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	PK(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2384.480	Н	58.52	74	43.46	54
2385.440	V	57.66	74	43.60	54

Temperature :  $28^{\circ}$  Test Date : April 26, 2016 Humidity : 65 % Test By: King Kong

Test mode: 802.11nHT20 Frequency: Channel 9: 2452MHz

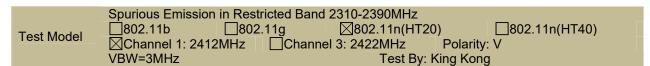
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	PK(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.945	Н	59.22	74	43.98	54
2483.896	V	58.88	74	44.14	54

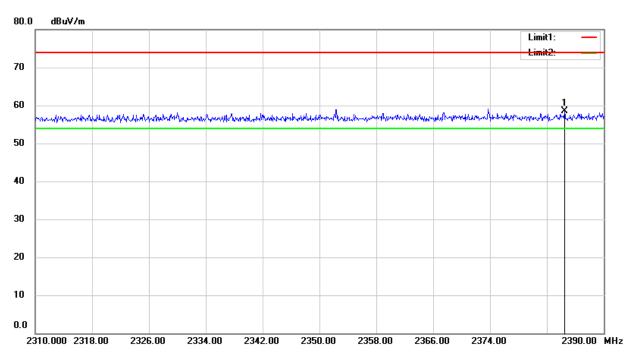
Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

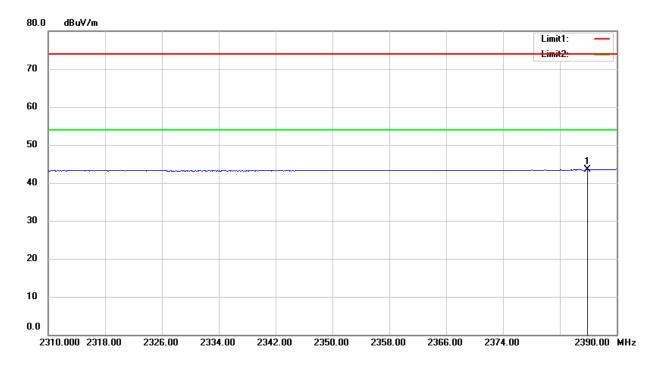
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

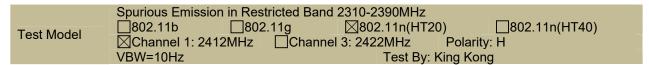


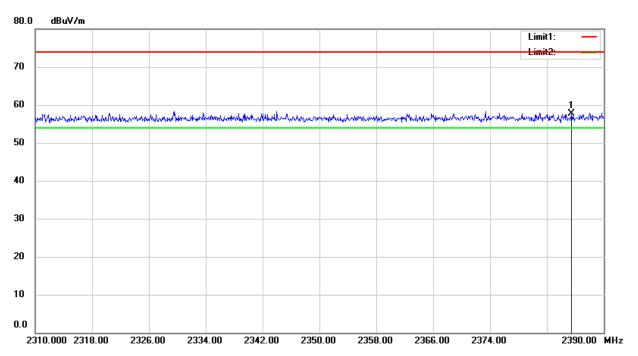


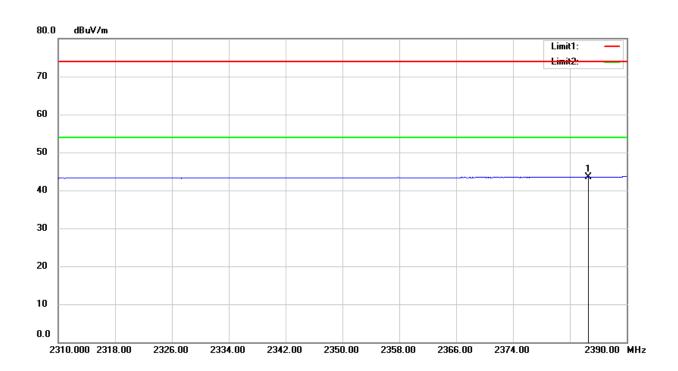






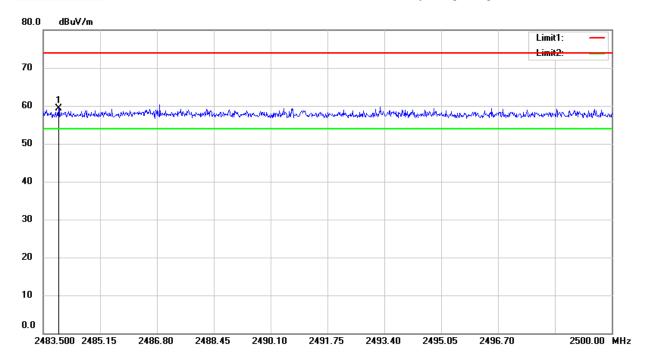


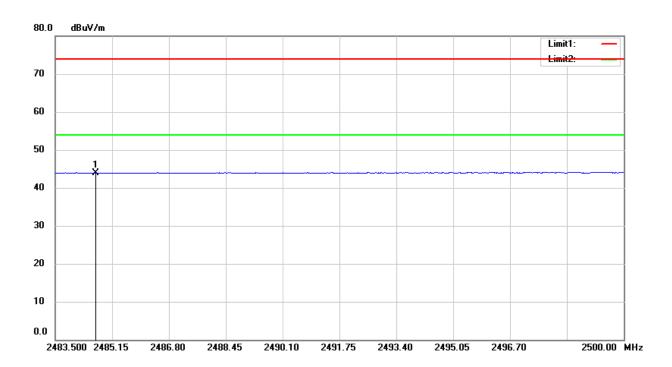




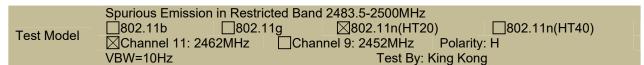


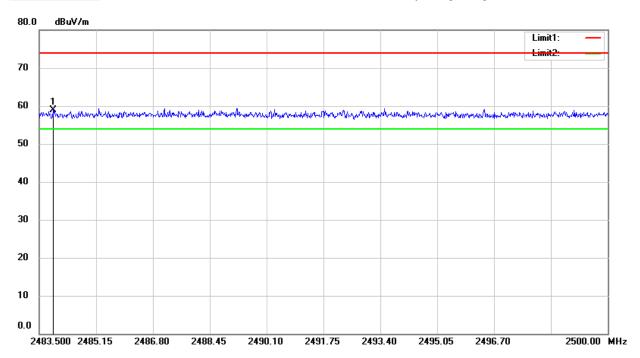


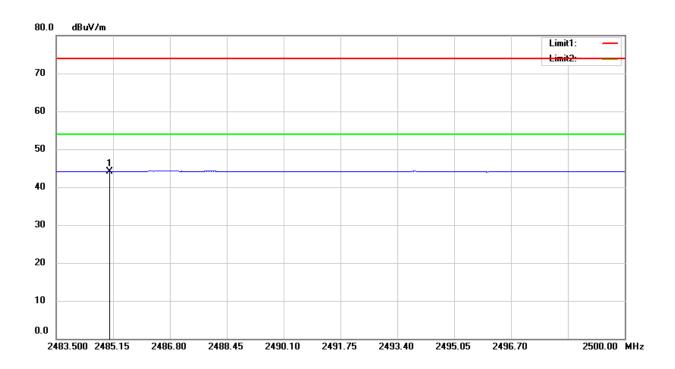










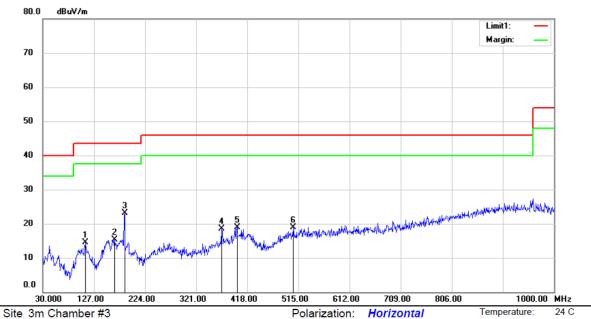




53 %

# ■ Spurious Emission below 1GHz (30MHz to 1GHz)

All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11nHT20 recorded was report as below:



Limit: ( RE)FCC PART 15.247

Mode: 11N 20M 2412

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		110.5100	28.91	-14.33	14.58	43.50	-28.92	QP			
2		165.8000	34.44	-19.14	15.30	43.50	-28.20	QP			
3	*	185.2000	41.22	-18.09	23.13	43.50	-20.37	QP			
4		369.5000	28.82	-10.39	18.43	46.00	-27.57	QP			
5	,	398.6000	27.81	-8.95	18.86	46.00	-27.14	QP			
6		505.3000	26.57	-7.75	18.82	46.00	-27.18	QP			

Power: AC 120V/60Hz

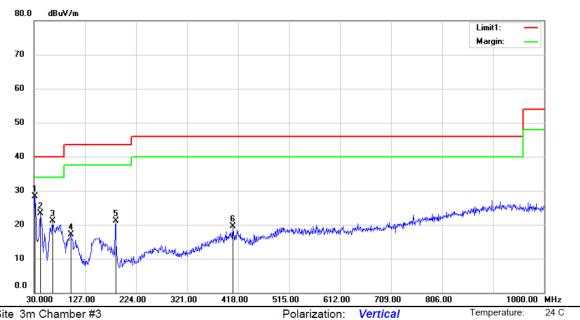
\*:Maximum data x:Over limit !:over margin Operator: XLX

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53 %

Humidity:



Site 3m Chamber #3

Limit: ( RE)FCC PART 15.247

Mode: 11N 20M 2412

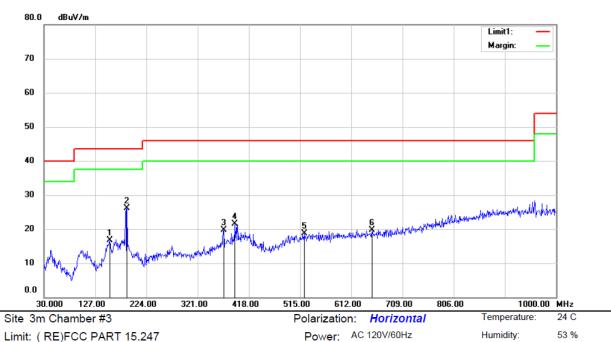
Note:

1 * 2 3	MHz 31.9400	dBuV 44.16	dB -15.81	dBuV/m	dBuV/m	dB	Detector		de ese e	0 1
2	31.9400	44.16	15 01				Detector	cm	degree	Comment
			-15.61	28.35	40.00	-11.65	QP			
3	42.6100	36.31	-13.02	23.29	40.00	-16.71	QP			
	64.9200	38.18	-16.99	21.19	40.00	-18.81	QP			
4	99.8400	31.23	-14.03	17.20	43.50	-26.30	QP			
5	185.2000	39.13	-18.09	21.04	43.50	-22.46	QP			
6	408.3000	28.69	-9.10	19.59	46.00	-26.41	QP			

Power: AC 120V/60Hz

\*:Maximum data Operator: XLX x:Over limit !:over margin





Limit: ( RE)FCC PART 15.247

Mode: 11N 20M 2437

Note:

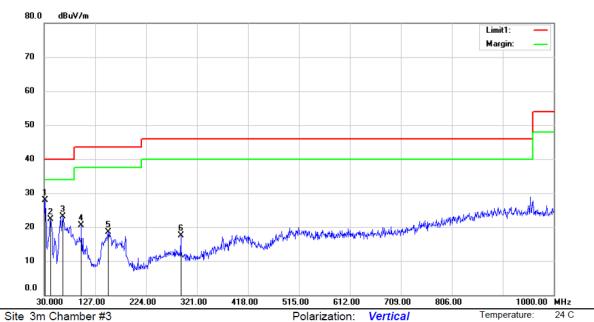
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		155.1300	35.15	-18.42	16.73	43.50	-26.77	QP			
2	*	187.1400	43.82	-17.77	26.05	43.50	-17.45	QP			
3		370.4700	30.15	-10.35	19.80	46.00	-26.20	QP			
4		391.8100	30.78	-9.33	21.45	46.00	-24.55	QP			
5		522.7600	26.34	-7.61	18.73	46.00	-27.27	QP			
6		650.8000	26.26	-6.48	19.78	46.00	-26.22	QP			

\*:Maximum data x:Over limit !:over margin Operator: XLX



Operator: XLX

53 %



Limit: ( RE)FCC PART 15.247 Mode: 11N 20M 2437

Note:

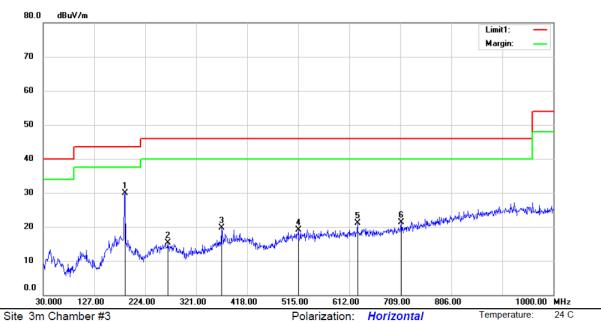
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	31.9400	43.69	-15.81	27.88	40.00	-12.12	QP			
2		41.6400	35.25	-12.93	22.32	40.00	-17.68	QP			
3		65.8900	40.43	-17.27	23.16	40.00	-16.84	QP			
4		100.8100	34.59	-14.02	20.57	43.50	-22.93	QP			
5		152.2200	36.75	-18.24	18.51	43.50	-24.99	QP			
6		289.9600	30.61	-13.20	17.41	46.00	-28.59	QP			

Power: AC 120V/60Hz

<sup>\*:</sup>Maximum data x:Over limit !:over margin



53 %



Limit: ( RE)FCC PART 15.247 Mode:11N 20M 2462

Note:

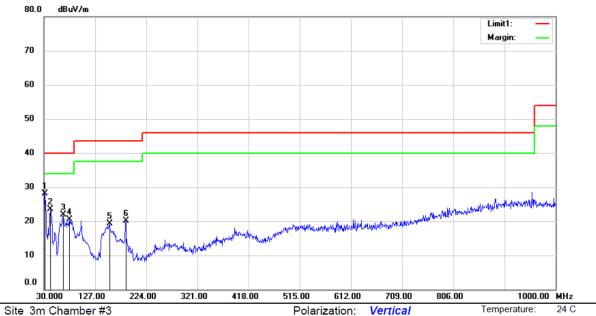
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	185.2000	48.00	-18.09	29.91	43.50	-13.59	QP			
2		266.6800	27.98	-12.72	15.26	46.00	-30.74	QP			
3		369.5000	30.17	-10.39	19.78	46.00	-26.22	QP			
4		515.0000	26.77	-7.67	19.10	46.00	-26.90	QP			
5		627.5200	27.90	-6.70	21.20	46.00	-24.80	QP			
6		710.9400	26.93	-5.65	21.28	46.00	-24.72	QP			

Power: AC 120V/60Hz

\*:Maximum data Operator: XLX x:Over limit !:over margin



53 %



Power: AC 120V/60Hz

Limit: ( RE)FCC PART 15.247

Mode: 11N 20M 2462

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	31.9400	44.01	-15.81	28.20	40.00	-11.80	QP			
2		42.6100	36.61	-13.02	23.59	40.00	-16.41	QP			
3		66.8600	39.51	-17.58	21.93	40.00	-18.07	QP			
4		78.5000	39.96	-19.44	20.52	40.00	-19.48	QP			
5		154.1600	37.59	-18.36	19.23	43.50	-24.27	QP			
6		185.2000	38.18	-18.09	20.09	43.50	-23.41	QP			

Operator: XLX \*:Maximum data x:Over limit !:over margin



### 8.6 CONDUCTED EMISSIONS TEST

### 8.6.1 Applicable Standard

According to FCC Part 15.207(a)

### 8.6.2 Conformance Limit

Conducted Emission Limit						
Frequency(MHz)	Quasi-peak	Average				
0.15-0.5	66-56	56-46				
0.5-5.0	56	46				
5.0-30.0	60	50				

Note: 1. The lower limit shall apply at the transition frequencies

# 8.6.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

### 8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

#### 8.6.5 Test Results

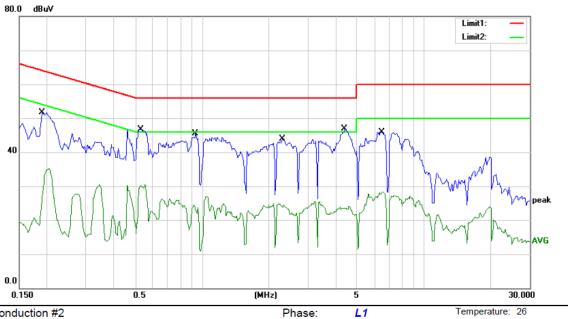
Pass

We test the EUT at 120V and 240V, and show the worst result as bellow.

<sup>2.</sup> The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



55 %



Power: AC 120V/60Hz

Site Conduction #2

Limit: (CE)FCC PART 15 class C\_QP

Mode: WIFI 2.4G

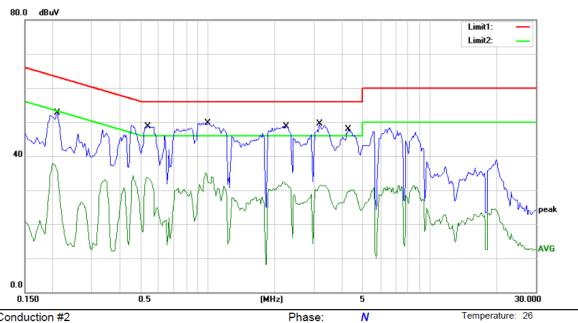
Note:

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1900	51.65	0.00	51.65	64.04	-12.39	QP	
2	0.1900	35.22	0.00	35.22	54.04	-18.82	AVG	
3	0.5300	46.76	0.00	46.76	56.00	-9.24	QP	
4	0.5300	30.47	0.00	30.47	46.00	-15.53	AVG	
5	0.9350	45.50	0.00	45.50	56.00	-10.50	QP	
6	0.9350	24.98	0.00	24.98	46.00	-21.02	AVG	
7	2.3050	43.83	0.00	43.83	56.00	-12.17	QP	
8	2.3050	24.89	0.00	24.89	46.00	-21.11	AVG	
9 *	4.4050	46.86	0.00	46.86	56.00	-9.14	QP	
10	4.4050	24.08	0.00	24.08	46.00	-21.92	AVG	
11	6.4600	45.94	0.00	45.94	60.00	-14.06	QP	
12	6.4600	28.25	0.00	28.25	50.00	-21.75	AVG	

\*:Maximum data x:Over limit Comment: Factor build in receiver. !:over margin Operator:



55 %



Power: AC 120V/60Hz

Site Conduction #2

Limit: (CE)FCC PART 15 class C\_QP Mode: WIFI 2.4G

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2100	52.64	0.00	52.64	63.21	-10.57	QP	
2		0.2100	37.81	0.00	37.81	53.21	-15.40	AVG	
3		0.5350	48.76	0.00	48.76	56.00	-7.24	QP	
4		0.5350	33.78	0.00	33.78	46.00	-12.22	AVG	
5	*	1.0000	49.75	0.00	49.75	56.00	-6.25	QP	
6		1.0000	35.18	0.00	35.18	46.00	-10.82	AVG	
7		2.2500	48.76	0.00	48.76	56.00	-7.24	QP	
8		2.2500	32.27	0.00	32.27	46.00	-13.73	AVG	
9		3.1750	49.45	0.00	49.45	56.00	-6.55	QP	
10		3.1750	31.52	0.00	31.52	46.00	-14.48	AVG	
11		4.2950	47.87	0.00	47.87	56.00	-8.13	QP	
12		4.2950	30.12	0.00	30.12	46.00	-15.88	AVG	

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:



# 8.7 ANTENNA APPLICATION

# 8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

# 8.7.2 Result

PASS.

The EUT	has	1 antenna: a Monolithic SMD antenna for BT, the gain is 2 dBi;
The EUT	has	1 antenna: a Monolithic SMD antenna for WIFI, the gain is 2 dBi;
The EUT	has	1 antenna: a Monolithic SMD antenna for WIFI, the gain is 2 dBi;
Note:	$\boxtimes$	Antenna use a permanently attached antenna which is not replaceable.
		Not using a standard antenna jack or electrical connector for antenna replacement
		The antenna has to be professionally installed (please provide method of installation)
w	hich	in accordance to section 15.203, please refer to the internal photos.

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