



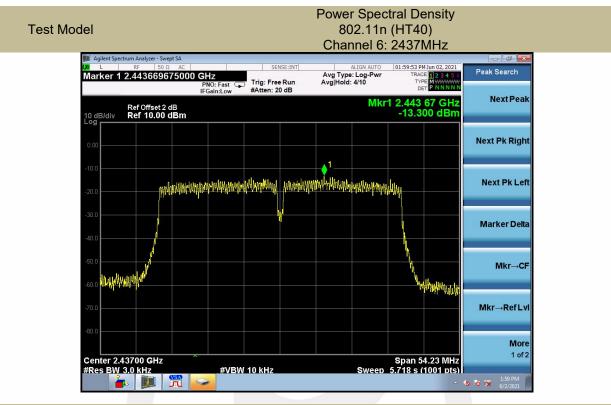
## **Test Model**

## Power Spectral Density 802.11n (HT40) Channel 3: 2422MHz



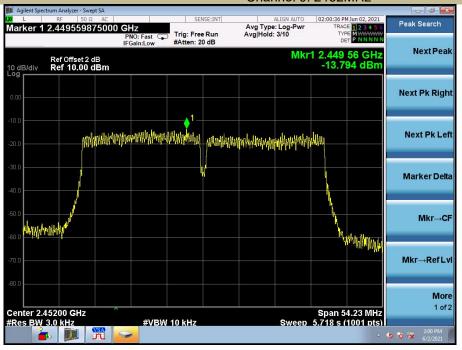
**深圳信测标准技术服务股份有限公司** 地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn EMTEK (Shenzhen) Co., Ltd. Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: cs.rep@emtek.com.cn





## Test Model

#### Power Spectral Density 802.11n (HT40) Channel 9: 2452MHz



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Report No. ES210517011W

Ver.1.0





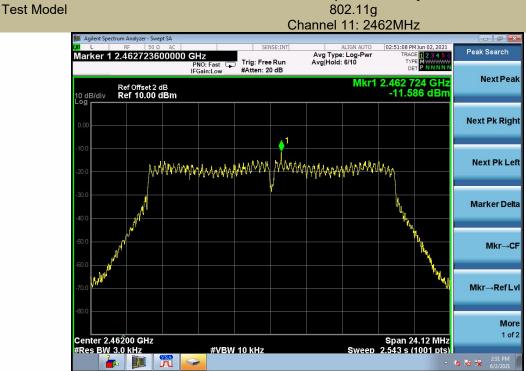


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Report No. ES210517011W

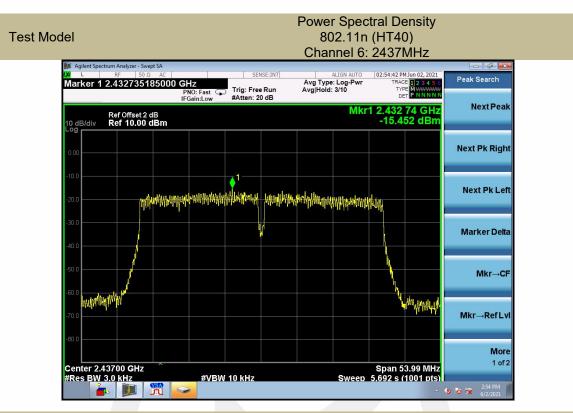
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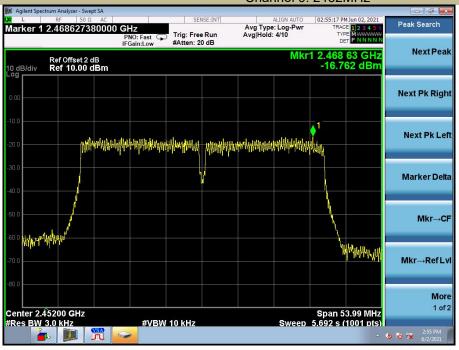






## Test Model

#### Power Spectral Density 802.11n (HT40) Channel 9: 2452MHz



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## 8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

## 8.4.1 Applicable Standard

According to FCC Part15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

## 8.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

## Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to  $\geq$  1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW  $\ge$  3 x RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

## Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW =300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

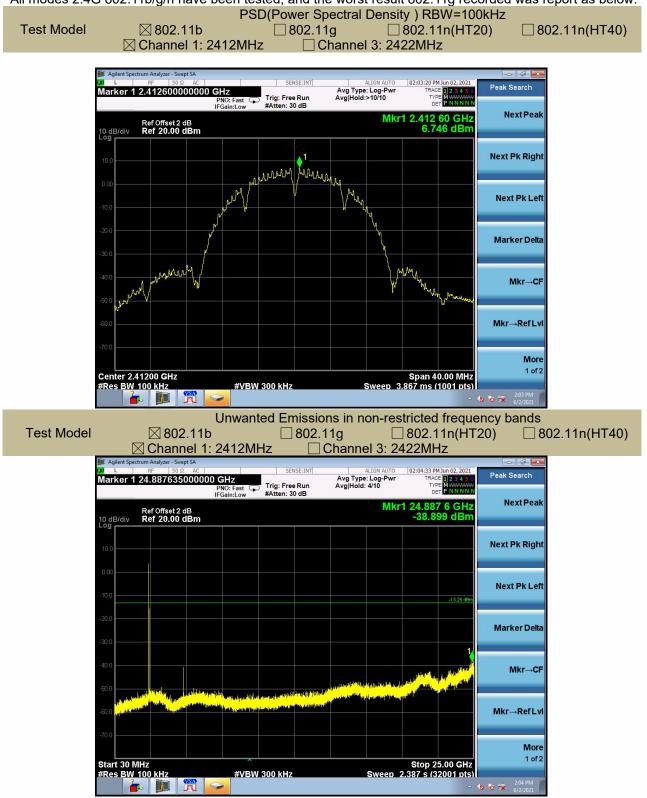
8.4.5 Test Results

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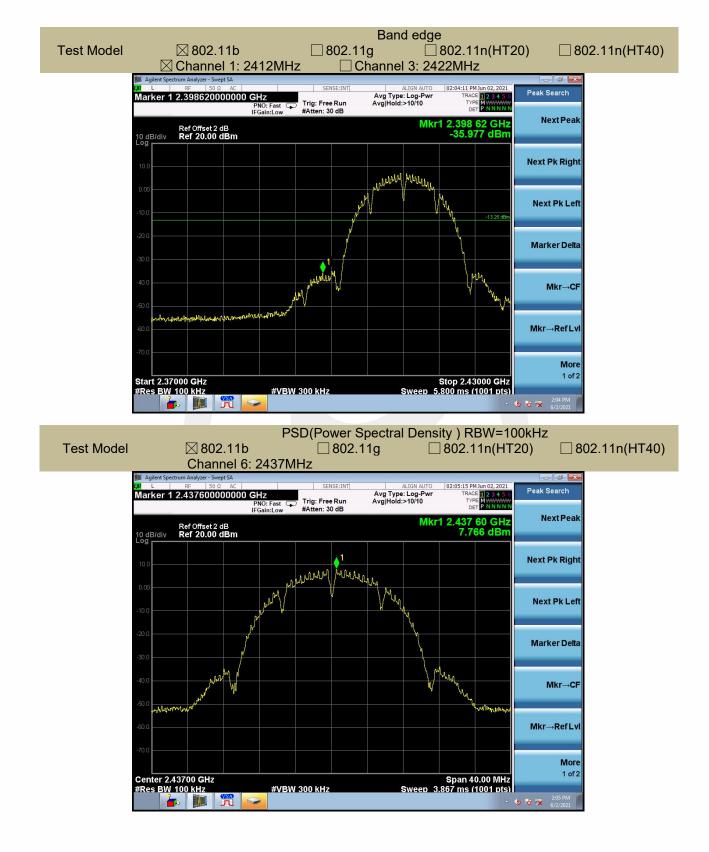
# 1T1R-Antenna 1

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

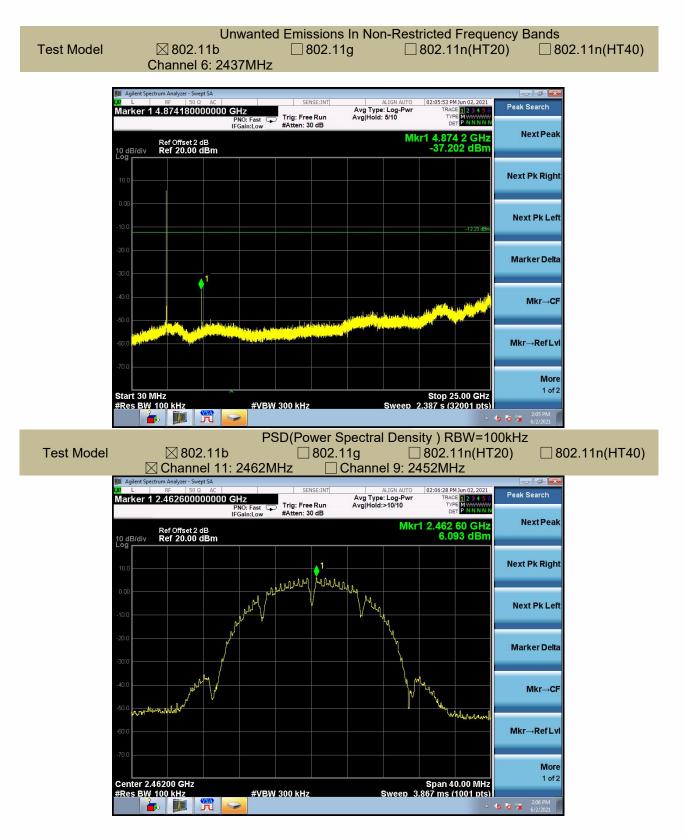


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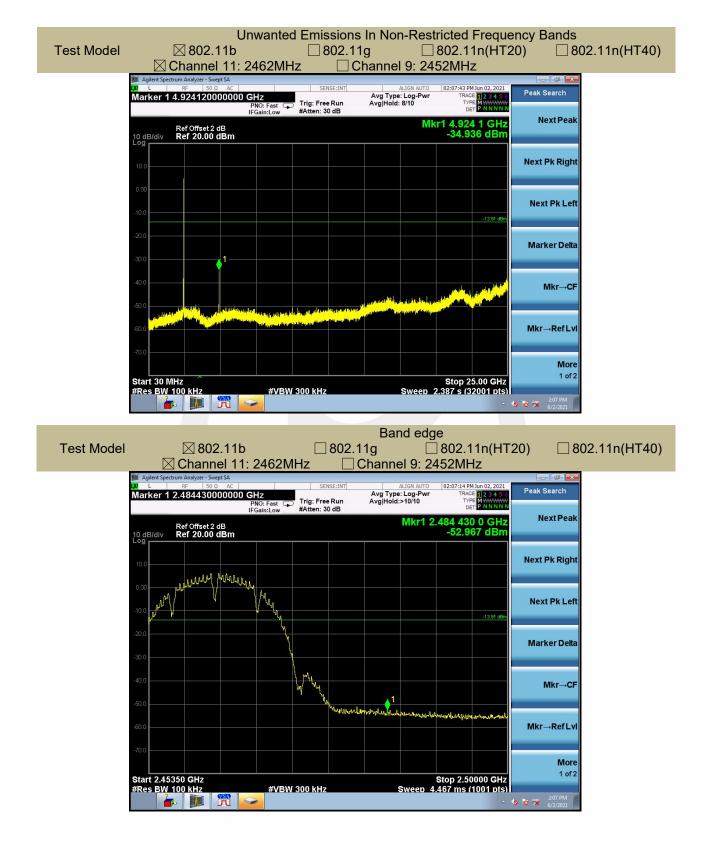














## 8.5 RADIATED SPURIOUS EMISSION

## 8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

#### 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

According to 1 00 1 art 10.			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

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	24000/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

## 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:

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 = 1 MHz for  $f \ge 1$  GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for f<30MHz(150KHz to 30KHz)

 $VBW \ge RBW$ 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

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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.

955	Test Results
8.5.5	Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

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

Freq. (MHz)	Ant.Pol.	Emis Level(d		Limit 3m	(dBuV/m)	Over(dB)		
	H/V	PK	AV	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 802.11b was recorded as below: Test mode: 802.11 b Frequency: Channel 1: 2412MHz

rearmou	<b>U</b> .	002.1		пеци	choy.	Onanne		2	
Freq. (MHz		Ant.Pol.		ssion dBuV/m)	Limit 3m	(dBuV/m)	Over(dB)		
	)	H/V	PK	AV	PK	AV	PK	AV	
5126.92	21	V	46.64	30.64	74	54	-27.36	-23.36	
9350.34	47	V	52.50	34.50	74	54	-21.50	-19.50	
17984.3	39	V	64.98	46.98	74	54	-9.02	-7.02	
5472.2	13	Н	46.46	30.46	74	54	-27.54	-23.54	
10969.3	36	Н	55.45	37.45	74	54	-18.55	-16.55	
17979.	.2	Н	65.04	47.04	74	54	-8.96	-6.96	

Test mo	de: 802.	11 b	Frequ	ency:	Channe	el 6: 2437MHz	z
Freq.	Ant.Pol.		ssion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
6381.804	V	47.94	30.94	74	54	-26.06	-23.06
11026.58	V	55.62	38.62	74	54	-18.38	-15.38
17979.2	V	65.11	48.11	74	54	-8.89	-5.89
5012.628	Н	46.69	30.69	74	54	-27.31	-23.31
11029.77	Н	55.76	38.76	74	54	-18.24	-15.24
17994.79	Н	64.95	46.95	74	54	-9.05	-7.05

Test mode:	1 b	Frequ	ency:	С	Channel 11: 2462MHz			
Freq.	Ant.Pol.		ssion dBuV/m)	Limit 3m(	(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
5430.459	V	48.13	30.13	74	54	-25.87	-23.87	
11703.06	V	56.20	40.20	74	54	-17.80	-13.80	
18000	V	66.07	48.07	74	54	-7.93	-5.93	
4924.312	H	46.57	28.57	74	54	-27.43	-25.43	
10066.99	Н	54.13	36.13	74	54	-19.87	-17.87	
17948.04	H	64.89	46.89	74	54	-9.11	-7.11	

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

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant\_F + Cab\_L - Preamp

(4) 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 802.11b was recorded as below:
Test mode: 802.11 b
Frequency: Channel 1: 2412MHz

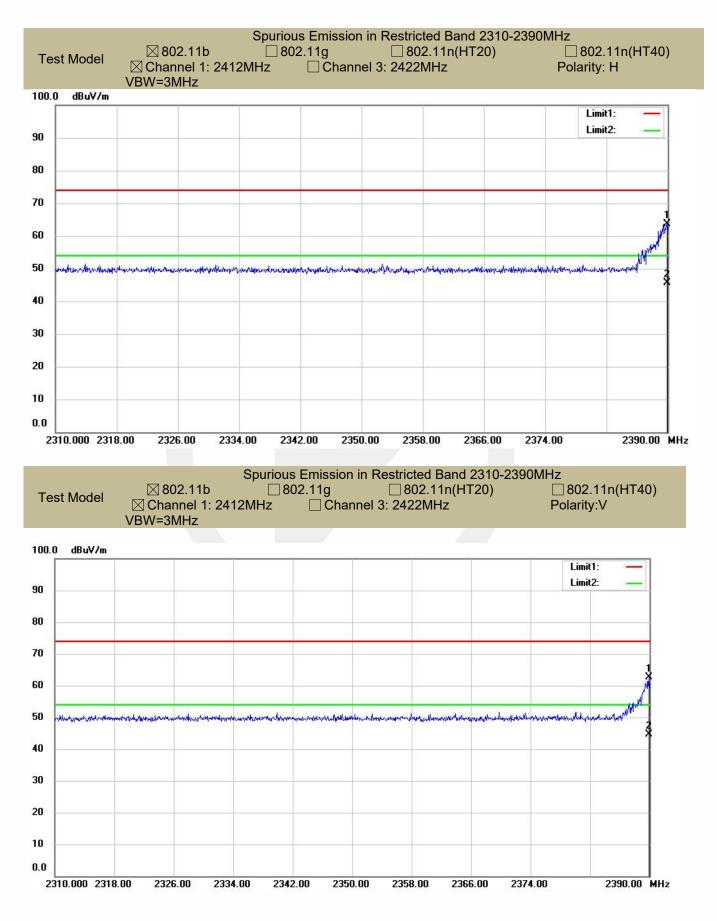
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)
2389.996	Н	63.74	74	-10.26	45.74	54	-8.26
2389.952	V	62.51	74	-11.49	44.51	54	-9.49
Test mode:	802.11	b F	requency:	Chanr	nel 11: 2462MHz		

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)
2483.533	Н	64.61	74	-9.39	46.61	54	-7.39
2483.525	V	56.88	74	-17.12	38.88	54	-15.12

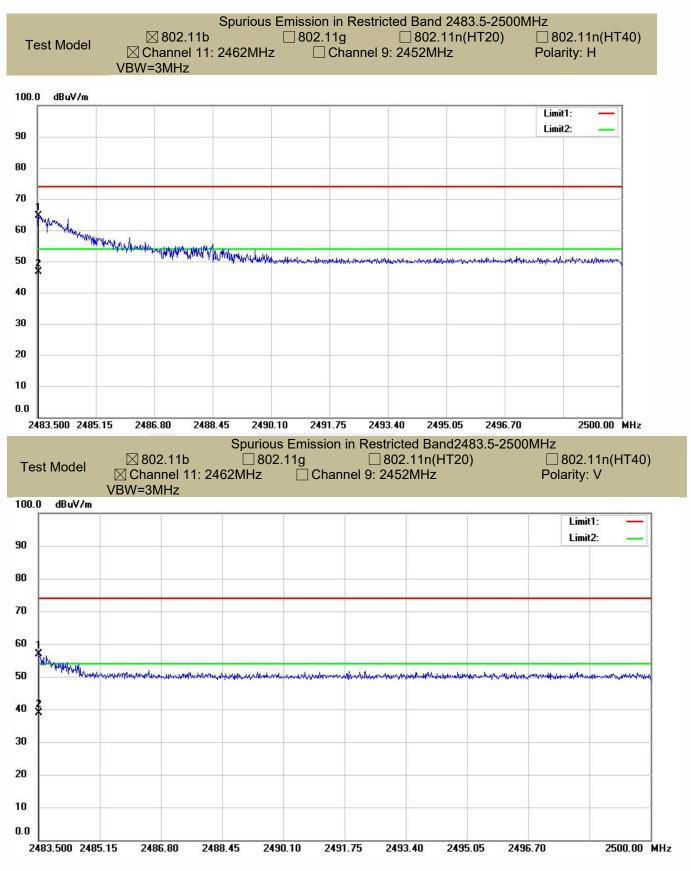
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant\_F + Cab\_L Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

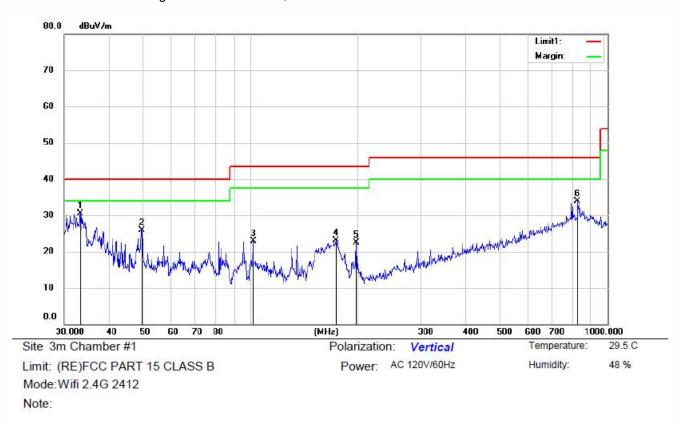










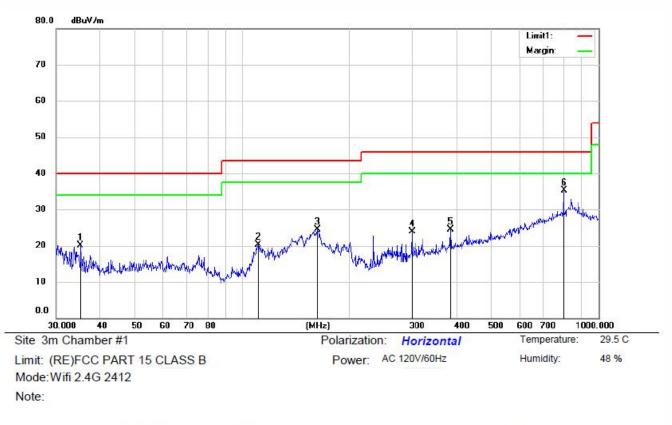


## Spurious Emission below 1GHz (30MHz to 1GHz)

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

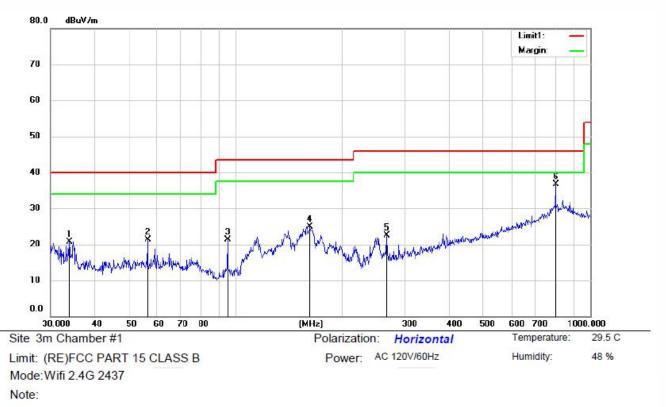
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	33.3571	44.72	-14.25	30.47	40.00	-9.53	QP			
2		49.5545	38.01	-12.11	25.90	40.00	-14.10	QP			
3		101.8673	37.60	-14.60	23.00	43.50	-20.50	QP			
4	1	173.2050	36.93	-13.87	23.06	43.50	-20.44	QP			
5		198.5010	36.02	-13.59	22.43	43.50	-21.07	QP			
6	6	824.5968	31.79	2.19	33.98	46.00	-12.02	QP			





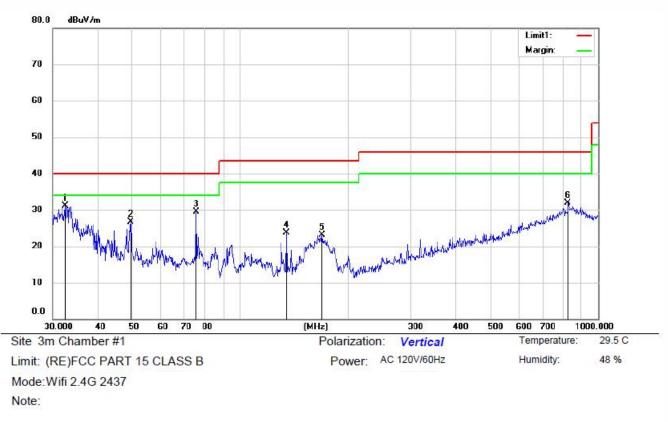
No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		35.2202	33.88	-13.76	20.12	40.00	- <mark>19.88</mark>	QP			
2		111.0057	34.92	-14.57	20.35	43.50	-23.15	QP			
3		163.1102	38.53	-14.11	24.42	43.50	-19.08	QP			
4		300.1040	32.84	-8.96	23.88	46.00	-22.12	QP			
5		384.1001	31.46	<mark>-6.96</mark>	24.50	46.00	-21.50	QP			
6	*	800.0310	33.26	1.97	35.23	46.00	-10.77	QP			





No. N	٨k.	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		33.9917	34.84	-14.14	20.70	40.00	-19.30	QP			
2		56.4938	33.28	-12.04	21.24	40.00	-18.76	QP			
3		95.0096	36.02	-14.63	21.39	43.50	-22.11	QP			
4	1	162.2545	38.93	- <mark>14.0</mark> 5	24.88	43.50	-18.62	QP			
5	2	266.7258	33.12	-10.66	22.46	46.00	-23.54	QP			
6 *	* 8	300.0310	34.71	1.97	36.68	46.00	-9.32	QP			



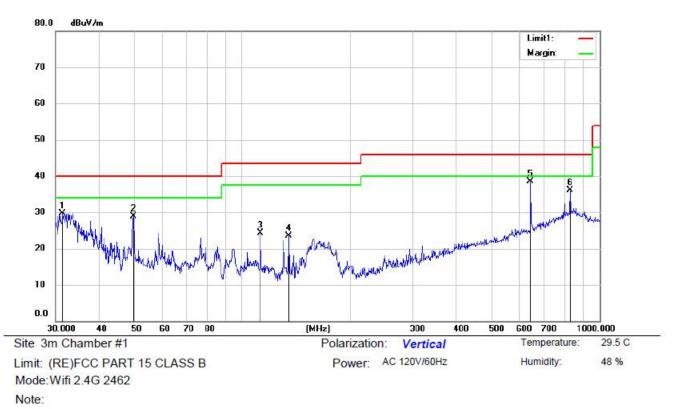


No.	Mk.	Freq.	Freq.	Freq.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment			
1	*	32.5197	45.50	- <mark>14</mark> .38	31.12	<b>40</b> .00	-8.88	QP						
2		49.5328	38.73	-12.12	26.61	40.00	-13.39	QP						
3		75.5456	43.80	-14.27	29.53	40.00	-10.47	QP						
4	1	135.0318	37.94	- <mark>14</mark> .19	23.75	43.50	-19.75	QP						
5	0.00	170.1201	37.09	-14.02	23.07	43.50	-20. <mark>4</mark> 3	QP						
6	1	826.7683	29.58	2.29	31.87	46.00	-14.13	QP						

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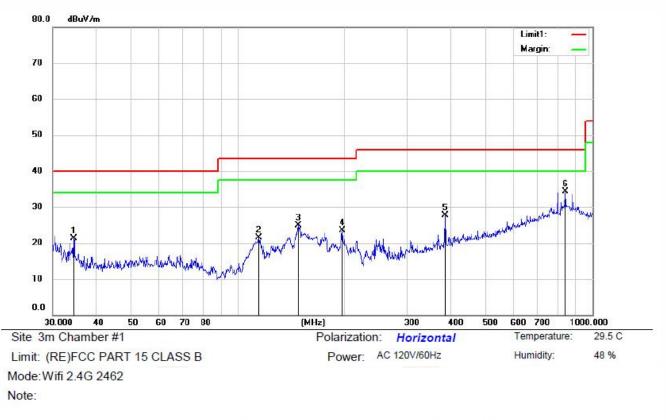


No.	Mk.	Freq.	Freq.	lk. Freq.	k. Freq.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment				
1		31.4405	44.27	-14.50	29.77	40.00	-10.23	QP		1.55					
2		49.5762	41.02	-12.11	28.91	40.00	-11.09	QP							
3		112.6724	38.77	-14.42	24.35	43.50	-19.15	QP							
4		135.0318	37.61	-14.19	23.42	43.50	-20.08	QP							
5	*	641.7350	40.54	-2.11	38.43	46.00	-7.57	QP							
6		829.6725	33.78	2.41	36.19	46.00	-9.81	QP							

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No.	Mk	k. 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		34.4568	35.26	-14.00	21.26	40.00	-18.74	QP			
2	1	114.5146	35.76	-14.25	21.51	43.50	-21.99	QP			
3	1	147.9214	38.79	-13.94	24.85	43.50	-18.65	QP			
4		197.2865	37.05	-13.54	23.51	43.50	-19.99	QP			
5		384.1001	34.60	-6.96	27.64	46.00	-18.36	QP			
6	*	840.2860	31.41	2.86	34.27	46.00	-11.73	QP			



## 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

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

## 8.6.3 Test Configuration

Test according to clause 7.3conducted emission test setup

## 8.6.4 Test Procedure

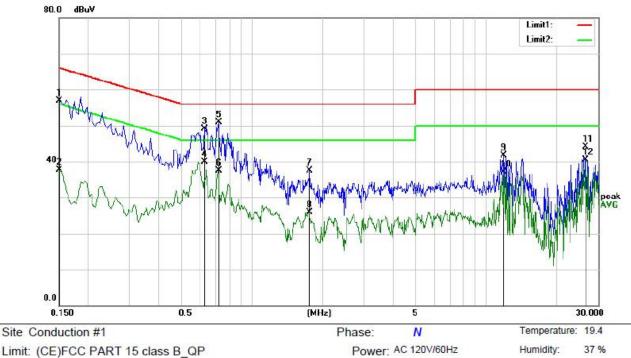
The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

## 8.6.5 Test Results

Pass

The 120V &240V voltage have been tested, and the worst result recorded was report as below:



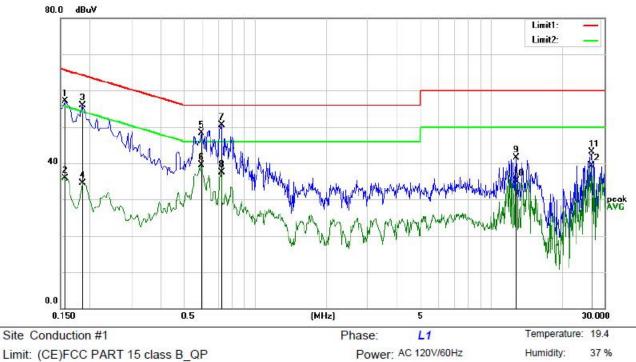


Limit: (CE)FCC PART 15 class B\_QP Mode: WiFi Mode Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	47.29	9.58	56.87	66.00	-9.13	QP	
2		0.1500	28.09	9.58	37.67	56.00	-18.33	AVG	
3		0.6300	39.92	9.27	49.19	56.00	-6.81	QP	
4		0.6300	30.60	9.27	39.87	46.00	-6.13	AVG	
5	*	0.7220	41.55	9.32	50.87	56.00	-5.13	QP	
6		0.7220	28.17	9.32	37.49	46.00	-8.51	AVG	
7		1.7660	27.65	9.93	37.58	56.00	-18.42	QP	
8		1.7660	15.98	9.93	25.91	46.00	-20.09	AVG	
9		11.8940	31.63	10.15	41.78	60.00	-18.22	QP	
10		11.8940	26.90	10.15	37.05	50.00	-12.95	AVG	
11		26.4900	33.87	10.24	44.11	60.00	-15.89	QP	
12		26.4900	30.20	10.24	40.44	50.00	-9.56	AVG	

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Mode: WiFi Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	47.53	9.55	57.08	65.57	- <mark>8.4</mark> 9	QP	
2		0.1580	26.45	9.55	36.00	55.57	-19.57	AVG	
3		0.1860	46.40	9.46	55.86	64.21	-8.35	QP	
4		0.1860	24.95	9.46	<mark>34.4</mark> 1	54.21	-19.80	AVG	
5		0.5940	38.96	9.26	48.22	56.00	-7.78	QP	
6		0.5940	30.24	9.26	39.50	46.00	-6.50	AVG	
7	*	0.7220	41.20	9.32	50.52	56.00	-5.48	QP	
8		0.7220	28.19	9.32	37.51	46.00	-8.49	AVG	
9		12.7500	31.25	10.17	41.42	60.00	-18.58	QP	
10		12.7500	24.86	10.17	35.03	50.00	-14.97	AVG	
11		26.4900	32.86	10.24	43.10	60.00	-16.90	QP	
12		26.4900	29.09	10.24	39.33	50.00	-10.67	AVG	



## 8.7 ANTENNA APPLICATION

## 8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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.

Note:

- The EUT has 2 External Antennas for WIFI 2.4G, antenna1: 4.4dBi, Antenna2: 4.4dBi
  - Antenna uses 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)

Which in accordance to section 15.203, please refer to the internal photos

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Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	/	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

Detail of factor for radiated emission

\*\*\* End of Report \*\*\*

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