

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC161001

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FCC Radio Test Report FCC ID: 2ANMU-P1

Original Grant

Report No. TB-FCC161001

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD **Applicant**

Equipment Under Test (EUT)

EUT Name Smart Plug

Model No. P1

Series Model No. N/A

Brand Name OUKITEL

2018-07-18 **Receipt Date**

2018-07-20 to 2018-08-03 **Test Date**

Issue Date 2018-08-04

Standards FCC Part 15, Subpart C (15.247: 2017)

Test Method ANSI C63.10: 2013

Conclusions PASS

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer

Test/Witness Engineer

Approved& **Authorized**

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

Tel: +86 75526509301

Fax: +86 75526509195



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Revision History

Report No.	Version	Description	Issued Date
TB-FCC161001	Rev.01	Initial issue of report	2018-08-04
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1. General Information about EUT

1.1 Client Information

Applicant		SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD				
Address		A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, CHINA				
Manufacturer : SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LT						
Address :		A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, CHINA				

1.2 General Description of EUT (Equipment Under Test)

EUT Name		Smart Plug				
Models No.		P1	P1			
Model Different	:	N/A				
		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz			
	\mathscr{A}	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)			
	0	RF Output Power:	802.11b: 1.85dBm 802.11g: 4.67dBm 802.11n (HT20): 4.75dBm			
Product		Antenna Gain:	1dBi PCB Antenna			
Description	3	Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)			
TO STATE OF THE PARTY OF THE PA	10	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps			
Power Supply	100	AC Voltage supplied				
Power Rating		Input: AC 100~240V, 1 Output: AC 100~240V,				
Software Version	:	VI.0				
Hardware : V1.0						
Connecting I/O Port(S)		Please refer to the User's Manual				



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Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



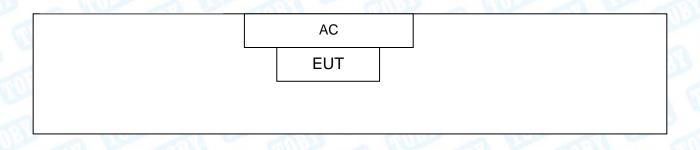
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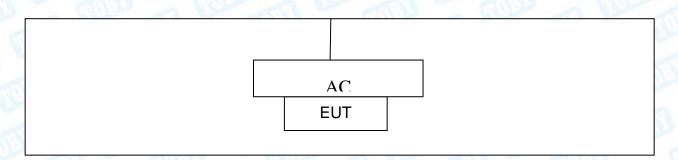
(3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
01	2412	05	2432	09	2452		
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447				
Note: CH 01~CH 11 for 802.11b/g/n(HT20)							

(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested





1.4 Description of Support Units

The EUT has been tested as an independent unit.

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.



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For Conducted Test				
Final Test Mode Description				
Mode 1 Normal Working with TX B Mode				

For Radiated Test					
Final Test Mode Description					
Mode 2	TX Mode B Mode Channel 01/06/11				
Mode 3	TX Mode G Mode Channel 01/06/11				
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11				

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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1.6 Description of Test Software Setting

During testing channel & Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	The state of the s	SecureCRT.exe	1000
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	90	90	90
IEEE 802.11g OFDM	90	90	90
IEEE 802.11n (HT20)	90	90	90

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	THE PARTY OF THE P
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dadiated Emission	Level Accuracy:	. 4 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dadiated Emission	Level Accuracy:	. 4 40 dD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Padiated Emission	Level Accuracy:	
Radiated Emission	Above 1000MHz	±4.20 dB



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1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 2							
Standa	rd Section	Test Item	Judgment	Remark			
FCC	IC	Tost item	oudginent	TCITIATIO			
15.203	1	Antenna Requirement	PASS	N/A			
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A			
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A			
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A			
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A			
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A			
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A			
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A			

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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3. Test Equipment

					Cal. Due
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 18, 2018	Jul. 17, 2019
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 18, 2018	Jul. 17, 2019
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 18, 2018	Jul. 17, 2019
LISN	Rohde & Schwarz	ENV216	101131	Jul. 18, 2018	Jul. 17, 2019
Radiation Emission	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 18, 2018	Jul. 17, 2019
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 18, 2018	Jul. 17, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.16, 2018	Mar. 15, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.16, 2018	Mar. 15, 2019
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 14, 2018	Jul. 13, 2019
Pre-amplifier	Sonoma	310N	185903	Mar.17, 2018	Mar. 16, 2019
Pre-amplifier	HP	8449B	3008A00849	Mar.17, 2018	Mar. 16, 2019
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.17, 2018	Mar. 16, 2019
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducto	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 18, 2018	Jul. 17, 2019
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 18, 2018	Jul. 17, 2019
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Oct. 26, 2017	Oct. 25, 2018
Vector Signal Generator	Agilent	N5182A	MY50141294	Oct. 26, 2017	Oct. 25, 2018
Analog Signal Generator	Agilent	N5181A	MY50141953	Oct. 26, 2017	Oct. 25, 2018
The Contract of the Contract o	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Oct. 26, 2017	Oct. 25, 2018
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Oct. 26, 2017	Oct. 25, 2018
NE FOWER SERSOR	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Oct. 26, 2017	Oct. 25, 2018



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

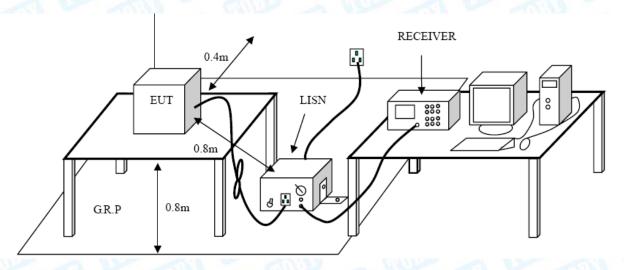
Conducted Emission Test Limit

	Maximum RF Line Voltage (dBμV)						
Frequency	Quasi-peak Level						
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *					
500kHz~5MHz	56	46					
5MHz~30MHz	60	50					

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please refer to the Attachment A.



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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)				
0.009~0.490	2400/F(KHz)	300				
0.490~1.705	24000/F(KHz)	30				
1.705~30.0	30	30				
30~88	100	3				
88~216	150	3 403				
216~960	200	3				
Above 960	500	3				

Radiated Emission Limit (Above 1000MHz)

Frequency	Distance of 3	sm (dBuV/m)
(MHz)	Peak	Average
Above 1000	74	54

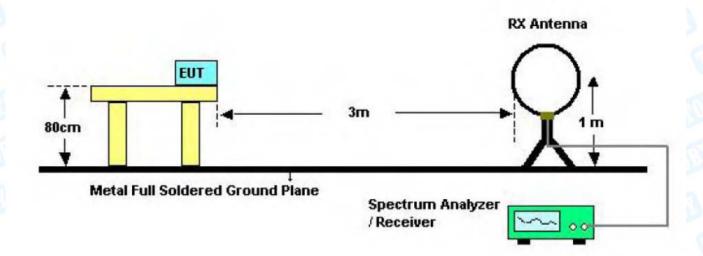
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

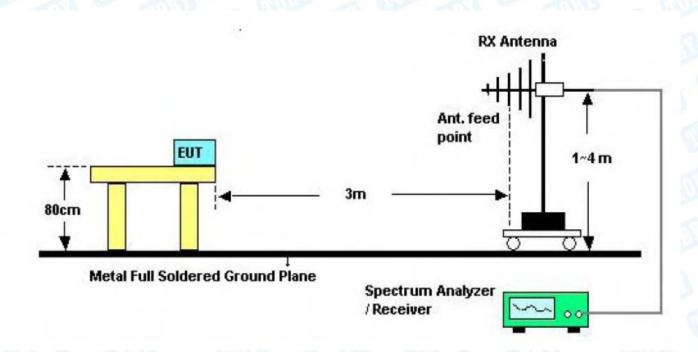


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5.2 Test Setup



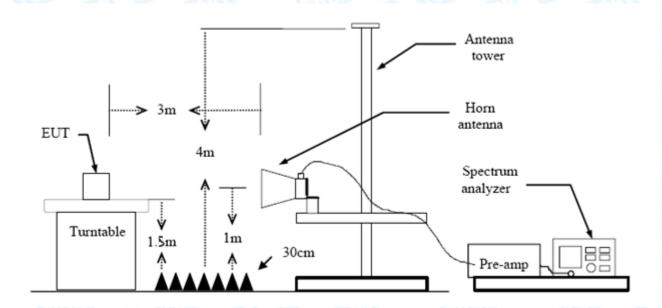
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency Below 1GHz. The EUT was placed on a rotating 0.8m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.



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(8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.



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6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

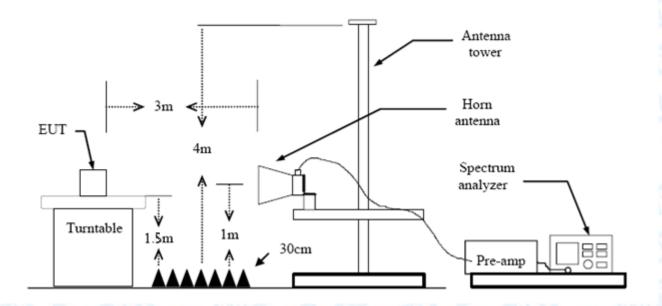
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance of 3m (dBuV/m)					
Band (MHz)	Peak	Average				
2310 ~2390	74	54				
2483.5 ~2500	74	54				

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency Below 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.



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(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please refer to the Attachment C.



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7. Bandwidth Test

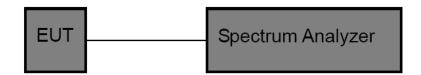
7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

THE PARTY OF THE P	FCC Part 15 Subpart C(15.247)						
Test Item	Limit	Frequency Range(MHz)					
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5					

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

7.5 Test Data

Please refer to the Attachment D.



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8. Peak Output Power Test

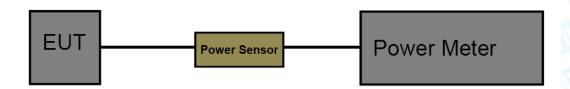
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)							
Test Item	Limit	Frequency Range(MHz)					
Peak Output Power	1 Watt or 30 dBm	2400~2483.5					

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

Please refer to the Attachment E.



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9. Power Spectral Density Test

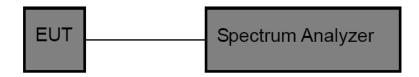
9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)								
Test Item	Limit	Frequency Range(MHz)						
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5						

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

9.5 Test Data

Please refer to the Attachment F.



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10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 Requirement

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.

10.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 1dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

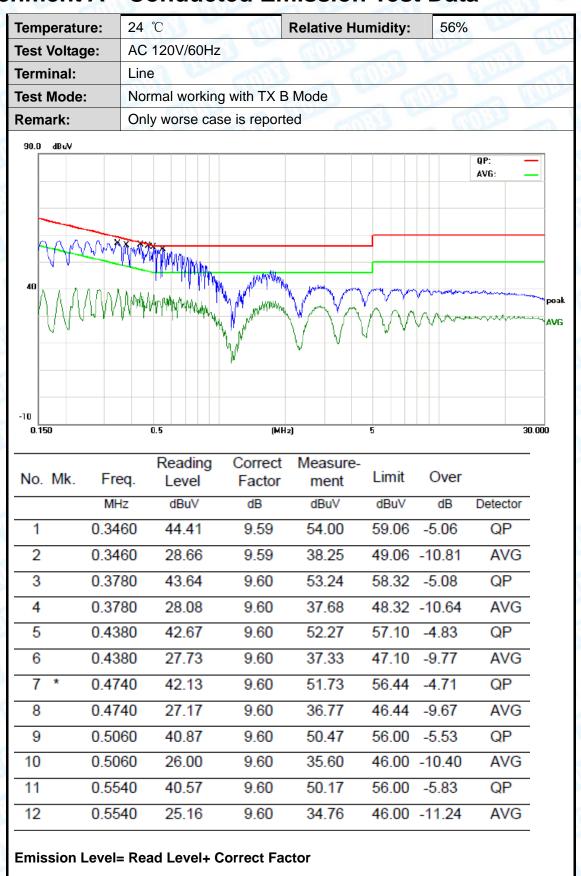
The EUT antenna is a PCB Antenna. It complies with the standard requirement.

	Antenna Type	
TO TO	⊠Permanent attached antenna	W.F.
TO TO	Unique connector antenna	1
THE REAL PROPERTY.	Professional installation antenna	





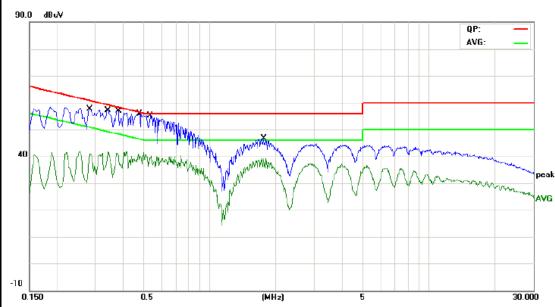
Attachment A-- Conducted Emission Test Data





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Temperature:	24 °C	Relative Humidity:	56%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Normal working with TX B	Mode	
Remark:	Only worse case is reported	ed	The same
3			



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.2819	45.30	9.58	54.88	60.76	-5.88	QP
2	0.2819	30.80	9.58	40.38	50.76	-10.38	AVG
3	0.3420	44.07	9.57	53.64	59.15	-5.51	QP
4	0.3420	28.87	9.57	38.44	49.15	-10.71	AVG
5	0.3820	42.49	9.58	52.07	58.23	-6.16	QP
6	0.3820	27.76	9.58	37.34	48.23	-10.89	AVG
7	0.4780	41.02	9.58	50.60	56.37	-5.77	QP
8	0.4780	28.92	9.58	38.50	46.37	-7.87	AVG
9 *	0.5340	41.09	9.58	50.67	56.00	-5.33	QP
10	0.5340	29.10	9.58	38.68	46.00	-7.32	AVG
11	1.7580	34.30	9.61	43.91	56.00	-12.09	QP
12	1.7580	29.01	9.61	38.62	46.00	-7.38	AVG



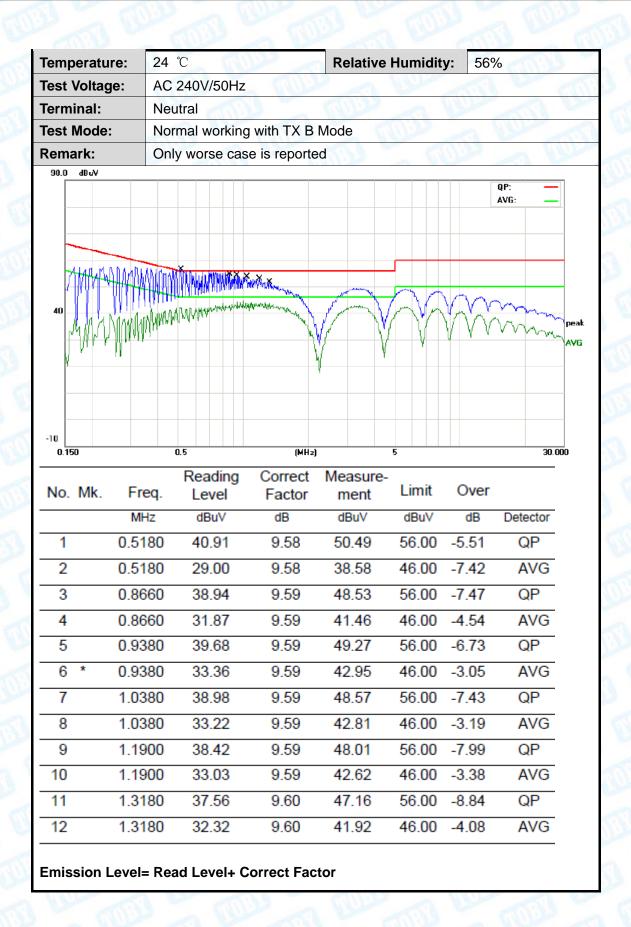
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Temperatur	re: 24	$^{\circ}$	ير سنا	Relati	ve Humid	lity: 5	56%
Test Voltag	e: AC	240V/50Hz		1	FRITZ	150	1 50
Terminal:	Lin	е	3	MODE		Miller	THE STATE OF
Test Mode:	No	rmal working	g with TX B	Mode	11155		BROWN
Remark:	On	ly worse cas	se is reporte	d	-	1135	Ja V
40 dBuv			A Market and Market an				QP: — AVG: —
0.150		0.5	(MHz)		5		30
No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.4060	42.94	9.60	52.54	57.73	-5.19	QP
2	0.4060	26.22	9.60	35.82	47.73	-11.91	AVG
3	0.4620	42.76	9.60	52.36	56.66	-4.30	QP
4	0.4620	26.88	9.60	36.48	46.66	-10.18	AVG
5 *	0.5380	42.99	9.60	52.59	56.00	-3.41	QP
6	0.5380	28.35	9.60	37.95	46.00	-8.05	AVG
7	0.6020	41.96	9.60	51.56	56.00	-4.44	QP
8	0.6020	27.93	9.60	37.53	46.00	-8.47	AVG
9	0.7060	41.63	9.61	51.24	56.00	-4.76	QP
10	0.7060	28.19	9.61	37.80	46.00	-8.20	AVG
11	0.8139	40.43	9.61	50.04	56.00	-5.96	QP
	0.8139	28.55	9.61	38.16	46.00	-7.84	AVG



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Report No.: TB-FCC161001
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Attachment B-- Radiated Emission Test Data

9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

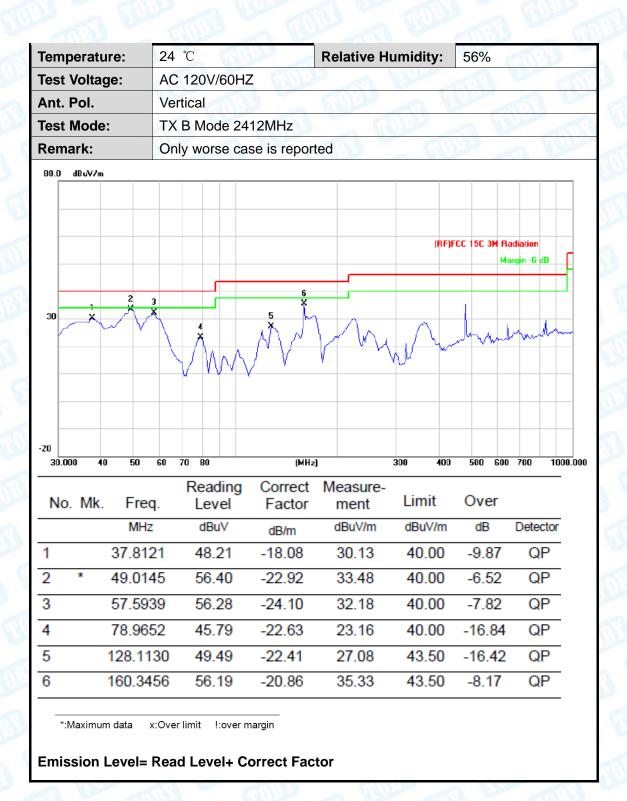
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz~1GHz

	Temperature:			4 °C			E.	THE		Relativ	e Hun	nidity	/ : {	56%		
Гes	t Volta	age:	Α	AC 120V/60HZ												
An	t. Pol.		H	Horizontal												1
Tes	t Mod	e:	Т	TX B Mode 2412MHz												
Rei	mark:		C	nly	woı	rse	cas	e is repo	orted	100			1111			1
80.0	D dBuV/	'm														
30	Manage	W	1		w.		MA.	, 2 , M	3 4 X X	5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(RF)	FCC 15C		adiation orgin -6 o	howh
-20 -20	0.000	40 5	50	60 7	70 8	30			(MHz)		300	400	500	600	700	1000.0
- 31	J.000	40 :										100	500	600	700	
N	o. Mk	. Fi	req.			adir evel		Correct Factor		easure- ment	Lim	it	Ove	er		
		M	ИHz		dl	BuV		dB/m		dBuV/m	dBu\	V/m	dB		Detect	tor
1		57.1	1914	ļ	48	3.52)	-24.05)	24.47	40.	00	-15.	53	QF)
2		128.	113	0	42	2.67	7	-22.41		20.26	43.	50	-23.	24	QF)
3		160.	345	6	49	9.98	3	-20.86	6	29.12	43.	50	-14.	38	QF)
3		174.	424	1	49	9.05	5	-20.37	,	28.68	43.	50	-14.	82	QF)
							_	-18.51		31.61	46.	00	-14.	39	QF	
3 4 5		226.		4	50	0.12	4	-10.01				00		-	-	



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Above 1GHz

Temperature:	24 ℃	Relative Humidity:	56%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX B Mode 2412MHz						
Remark:	No report for the emission which more than 10 dB below the prescribed						
	limit.						

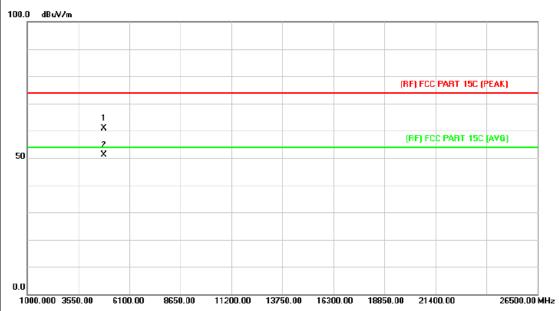


No.	. Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.274	29.93	14.55	44.48	54.00	-9.52	AVG
2		4824.864	42.94	14.55	57.49	74.00	-16.51	peak



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1							
	Temperature:	24 ℃	Relative Humidity:	56%			
	Test Voltage:	AC 120V/60HZ					
	Ant. Pol.	Vertical					
	Test Mode:	TX B Mode 2412MHz	TX B Mode 2412MHz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							

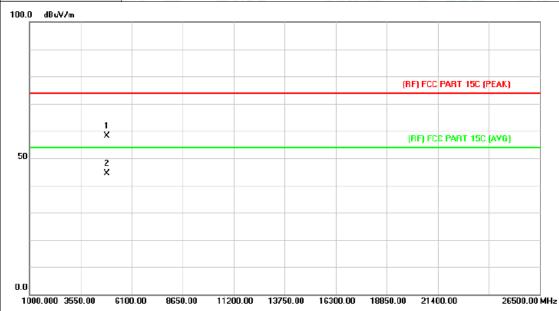


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.958	46.27	14.55	60.82	74.00	-13.18	peak
2	*	4824.000	36.65	14.55	51.20	54.00	-2.80	AVG



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Temperature:	24 ℃	Relative Humidity:	56%			
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ				
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2437MHz	6000	The same of the sa			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

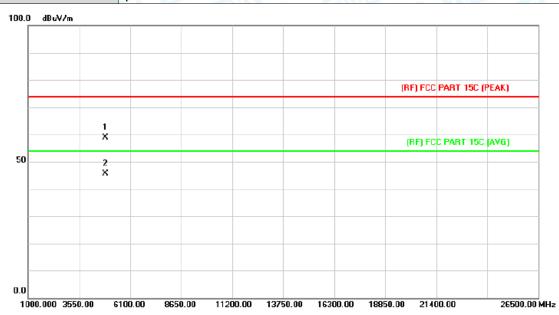


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.010	43.35	14.85	58.20	74.00	-15.80	peak
2	*	4873.334	29.40	14.86	44.26	54.00	-9.74	AVG



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Temperature:	24 ℃	Relative Humidity:	56%			
Test Voltage:	AC 120V/60HZ	Old The Control of th				
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX B Mode 2437MH	z	The same			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
	procedimin.		EL III LESSON			



No	. Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4872.800	43.98	14.85	58.83	74.00	-15.17	peak
2	*	4874.020	30.66	14.86	45.52	54.00	-8.48	AVG



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Temperature:	24 °C	Relative Humidity:	56%			
Test Voltage:	AC 120V/60HZ		OF COUR			
Ant. Pol.	Horizontal	COLUMN TO THE				
Test Mode:	TX B Mode 2462MHz	TX B Mode 2462MHz				
Remark:	No report for the emissio prescribed limit.	n which more than 10 dB	3 below the			

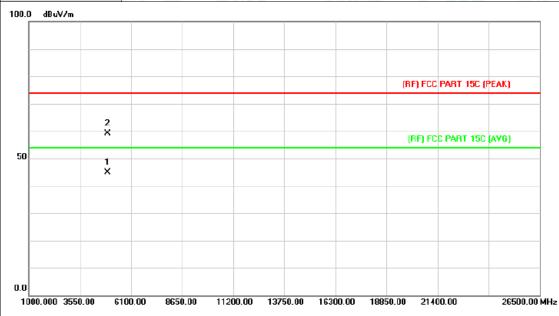


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.578	29.67	15.17	44.84	54.00	-9.16	AVG
2		4923.262	43.66	15.17	58.83	74.00	-15.17	peak



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Temperature:	24 °C	Relative Humidity:	56%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2462MHz	6000	The same of the sa			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.500	29.74	15.17	44.91	54.00	-9.09	AVG
2		4926.820	43.96	15.19	59.15	74.00	-14.85	peak



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Temperature:	24 °C	Relative Humidity:	56%
Test Voltage:	AC 120V/60HZ		THE STATE
Ant. Pol.	Horizontal	Mary Mary	
Test Mode:	TX G Mode 2412MHz	(10)	a little
Remark:	No report for the emission prescribed limit.	on which more than 10 dE	3 below the



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4822.764	29.82	14.55	44.37	54.00	-9.63	AVG
2		4822.920	42.83	14.55	57.38	74.00	-16.62	peak



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Temperature:	24 ℃	Relative Humidity:	56%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical	Min a	
Test Mode:	TX G Mode 2412MHz	The state of the s	a West
Remark:	No report for the emission prescribed limit.	which more than 10 dE	3 below the

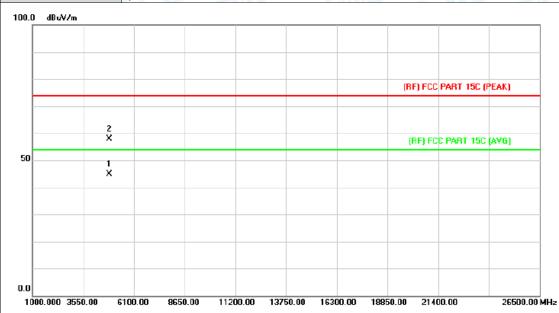


No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.234	29.16	14.55	43.71	54.00	-10.29	AVG
2		4824.978	42.77	14.55	57.32	74.00	-16.68	peak



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Temperature:	24 ℃	Relative Humidity:	56%
Test Voltage:	AC 120V/60HZ		THE STATE
Ant. Pol.	Horizontal	Mins of M	
Test Mode:	TX G Mode 2437MHz		a little
Remark:	No report for the emissi prescribed limit.	on which more than 10 dB	3 below the

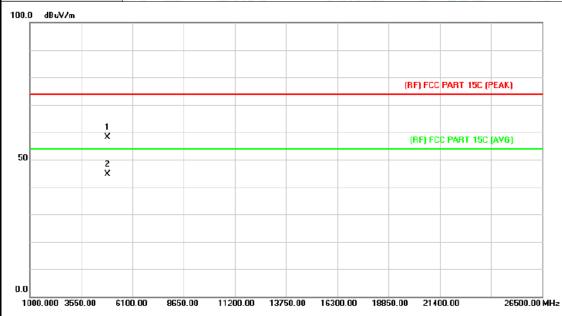


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.210	30.14	14.86	45.00	54.00	-9.00	AVG
2		4875.374	42.97	14.87	57.84	74.00	-16.16	peak



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Temperature:	24 °C	Relative Humidity:	56%
Test Voltage:	AC 120V/60HZ	The state of the s	THE STATE
Ant. Pol.	Vertical	William Of B	
Test Mode:	TX G Mode 2437MHz		a library
Remark:	No report for the emis prescribed limit.	sion which more than 10 dE	3 below the

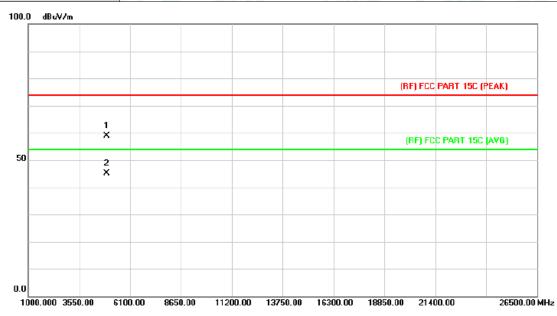


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.844	43.22	14.86	58.08	74.00	-15.92	peak
2	*	4873.844	29.82	14.86	44.68	54.00	-9.32	AVG



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Temperature:	24 °C	Relative Humidity:	56%
Test Voltage:	AC 120V/60HZ		in in
Ant. Pol.	Horizontal	Min of M	
Test Mode:	TX G Mode 2462MHz		The same
Remark:	No report for the emissi prescribed limit.	on which more than 10 dE	3 below the



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4922.602	43.69	15.17	58.86	74.00	-15.14	peak
2	*	4922.602	30.03	15.17	45.20	54.00	-8.80	AVG



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Temperature:	24 °C	Relative Humidity:	56%
Test Voltage:	AC 120V/60HZ	The same	THE STATE
Ant. Pol.	Vertical	Mary Mary	
Test Mode:	TX G Mode 2462MHz	- COURS	a William
Remark:	No report for the emission prescribed limit.	which more than 10 dB	3 below the



No.	Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.530	30.49	15.17	45.66	54.00	-8.34	AVG
2		4925.140	44.12	15.19	59.31	74.00	-14.69	peak



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Temperature:	24 °C	Relative Humidity:	56%			
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT20) Mode	TX N(HT20) Mode 2412MHz				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

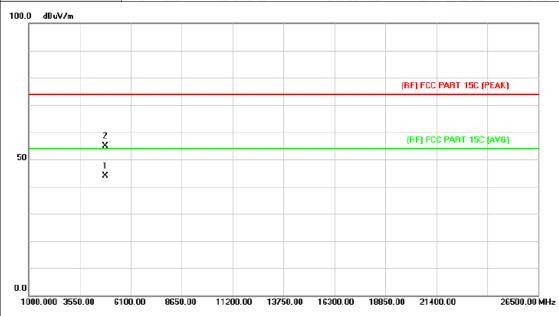


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.120	42.70	14.55	57.25	74.00	-16.75	peak
2	*	4825.350	29.11	14.56	43.67	54.00	-10.33	AVG



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Temperature:	24 °C	Relative Humidity:	56%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical						
Test Mode:	TX N(HT20) Mode 2412	TX N(HT20) Mode 2412MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

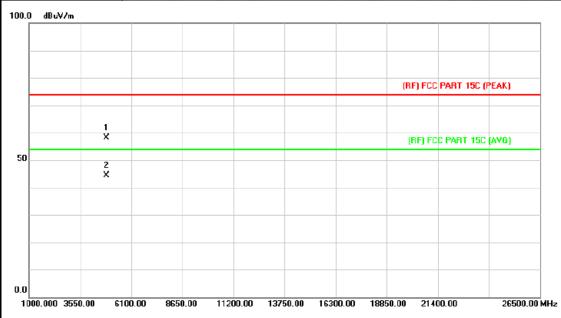


No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.148	29.22	14.55	43.77	54.00	-10.23	AVG
2		4825.416	40.21	14.56	54.77	74.00	-19.23	peak



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Temperature:	24 ℃	Relative Humidity:	56%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2437M	TX N(HT20) Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.342	43.35	14.86	58.21	74.00	-15.79	peak
2	*	4874.342	29.61	14.86	44.47	54.00	-9.53	AVG



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ĺ	Temperature:	24 °C	Relative Humidity:	56%			
	Test Voltage:	AC 120V/60HZ					
	Ant. Pol.	Vertical					
	Test Mode:	TX N(HT20) Mode 2437MI	TX N(HT20) Mode 2437MHz				
	Remark:	No report for the emission which more than 10 dB below the prescribed limit.					



N	o. M	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	×	4873.250	29.57	14.85	44.42	54.00	-9.58	AVG
2		4873.736	44.32	14.86	59.18	74.00	-14.82	peak



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Temperature:	24 °C	Relative Humidity:	56%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2462MH	z	The same of the sa				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

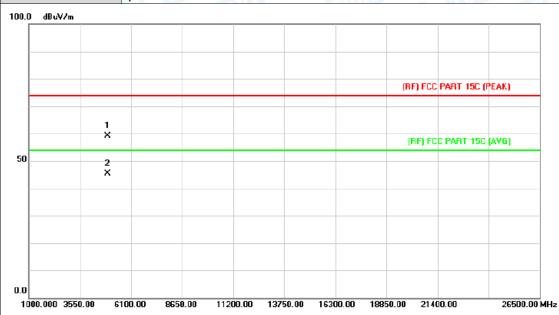


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.500	30.14	15.17	45.31	54.00	-8.69	AVG
2		4925.356	44.34	15.19	59.53	74.00	-14.47	peak



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Temperature:	24 ℃	Relative Humidity:	56%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical						
Test Mode:	TX N(HT20) Mode 2462MH		The same				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.736	44.01	15.17	59.18	74.00	-14.82	peak
2	*	4923.736	30.19	15.17	45.36	54.00	-8.64	AVG



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(1) Conducted Emission Test Data



802.11B Mode

2437 MHz

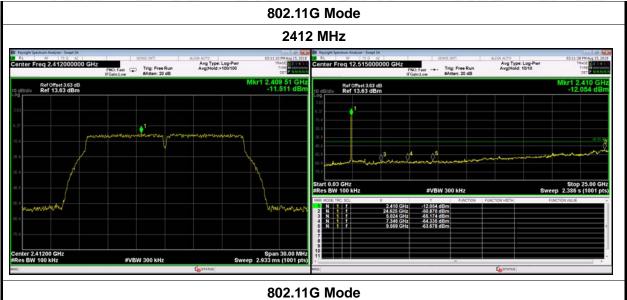


802.11B Mode





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2437 MHz



802.11G Mode





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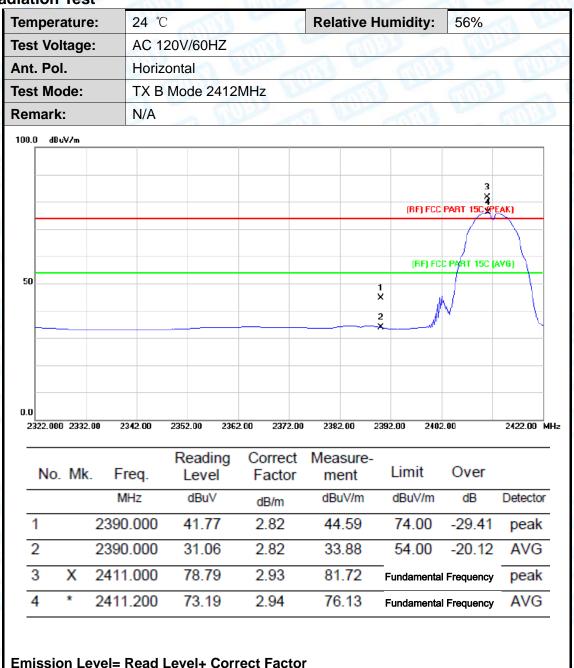


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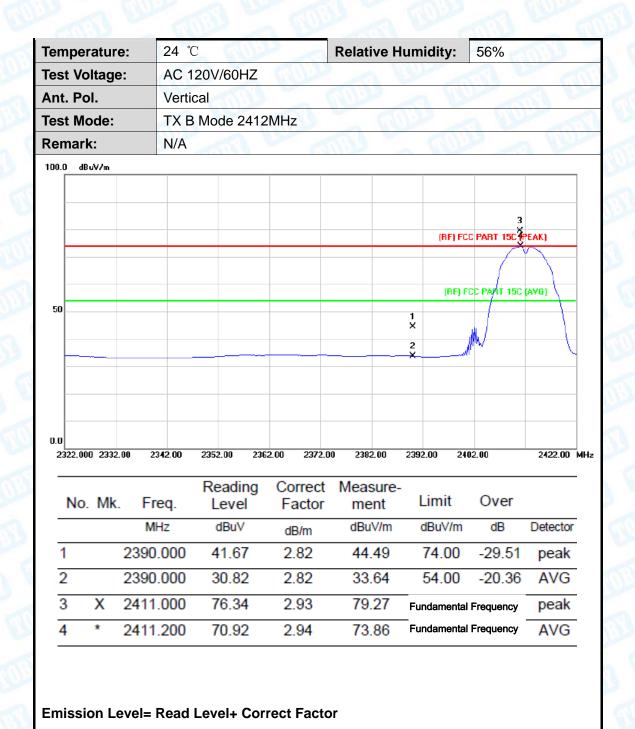
Attachment C-- Restricted Bands Requirement Test Data

(2) Radiation Test



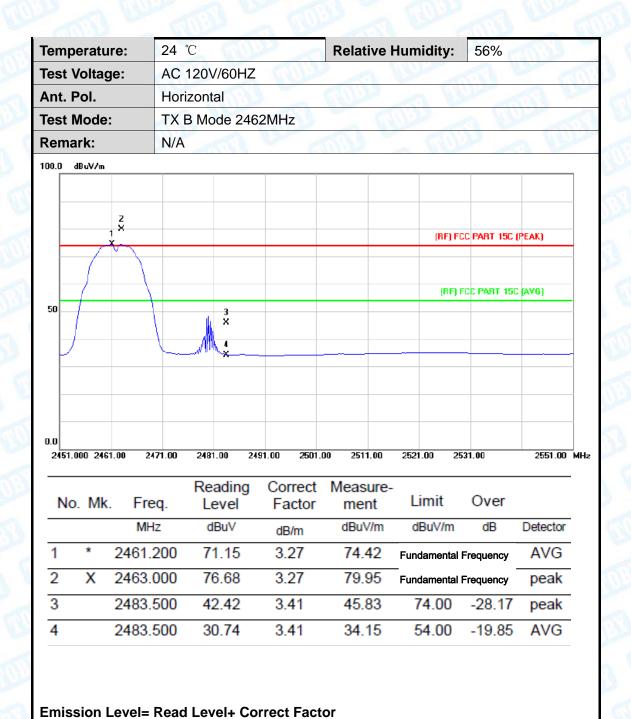


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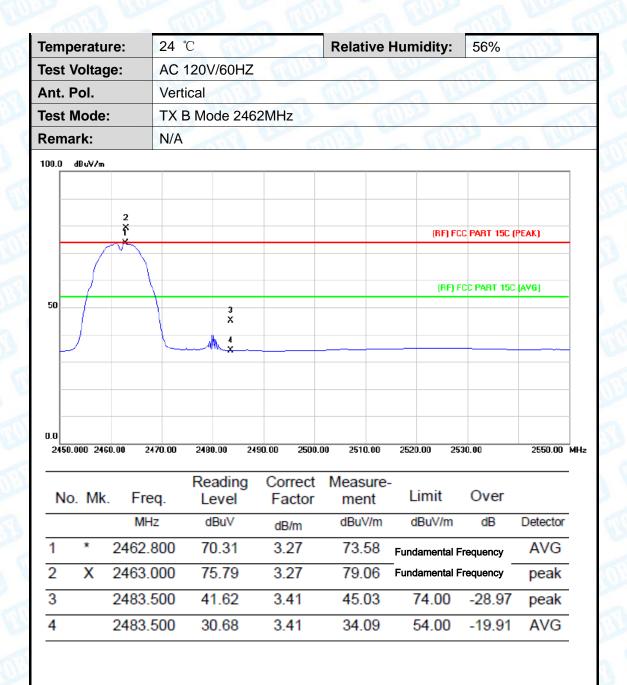


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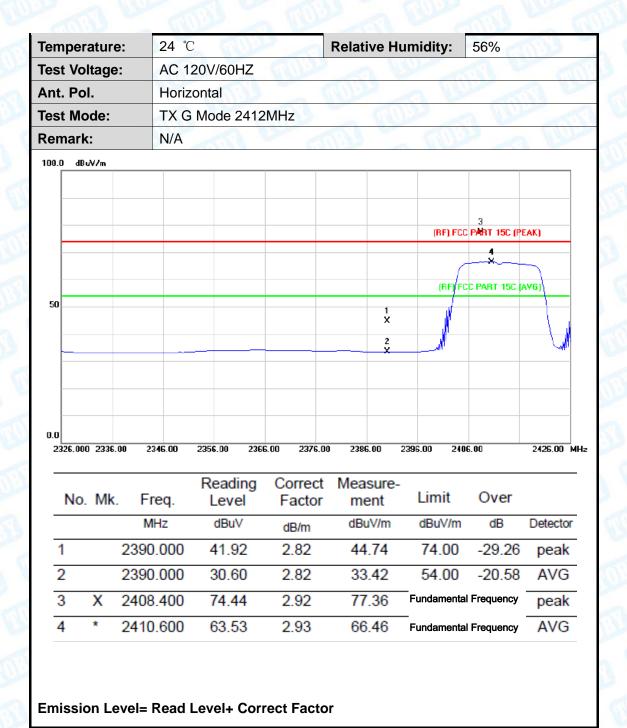


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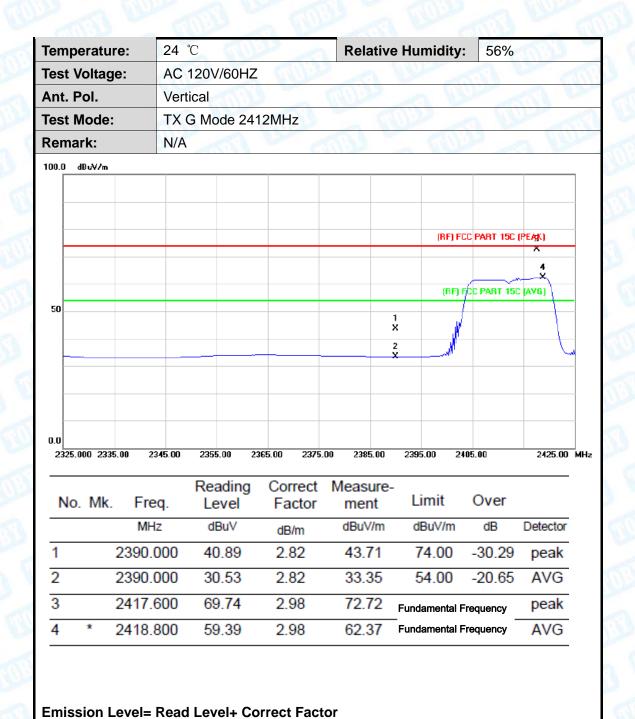


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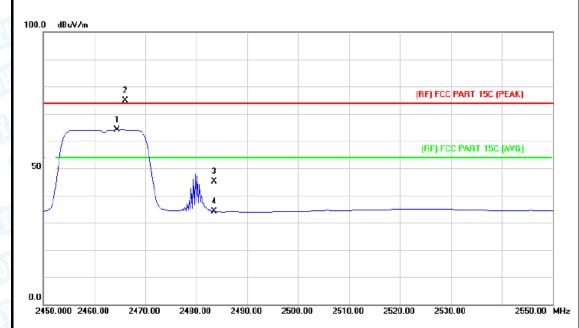
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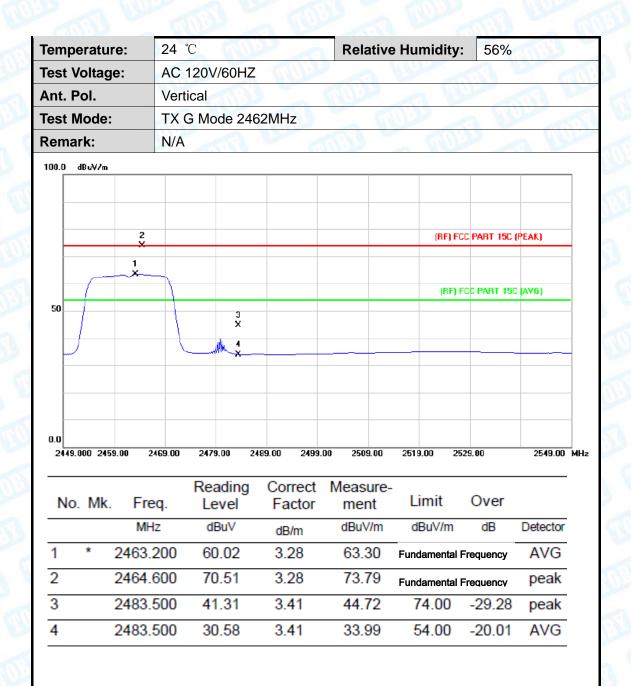
Temperature:	24 °C	Relative Humidity:	56%		
Test Voltage:	AC 120V/60HZ				
Ant. Pol.	Horizontal				
Test Mode:	TX G Mode 2462MHz				
Remark:	N/A				



No	o. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2464.400	60.76	3.28	64.04	- Fundamental F	requency	AVG
2	X	2466.000	71.65	3.29	74.94	- Fundamental F	requency	peak
3		2483.500	41.67	3.41	45.08	74.00	-28.92	peak
4		2483.500	30.81	3.41	34.22	54.00	-19.78	AVG

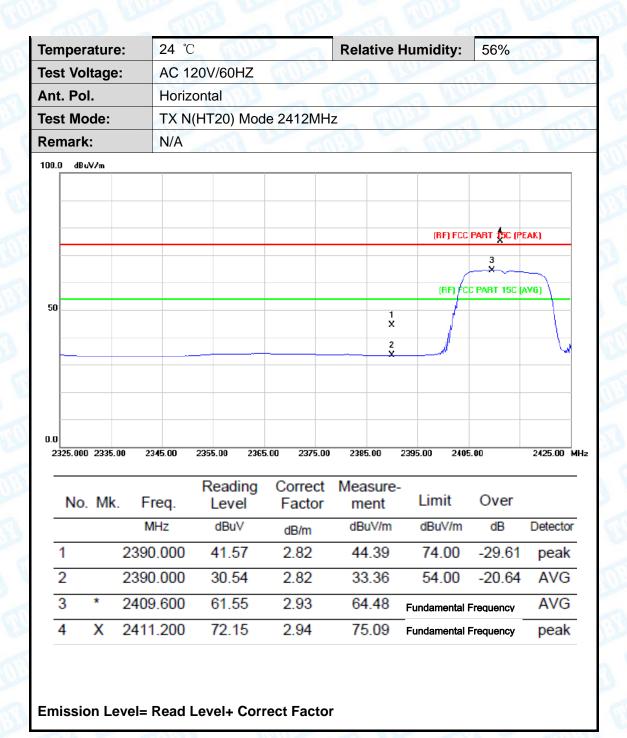


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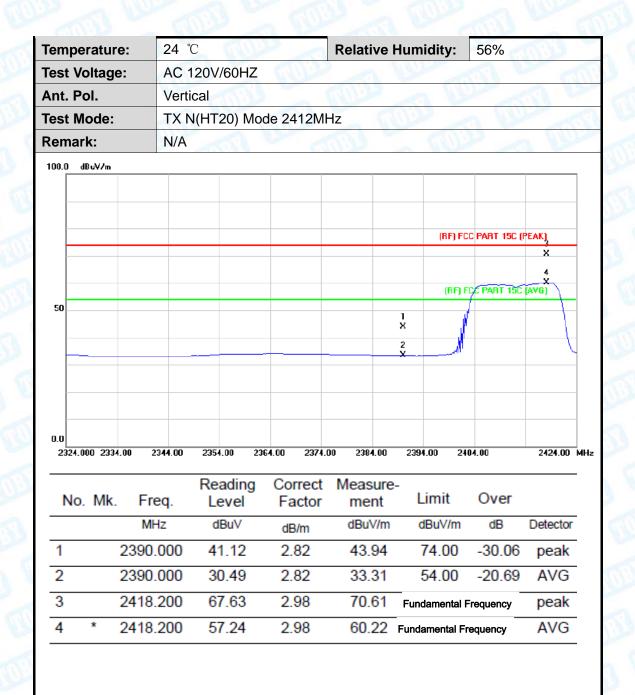


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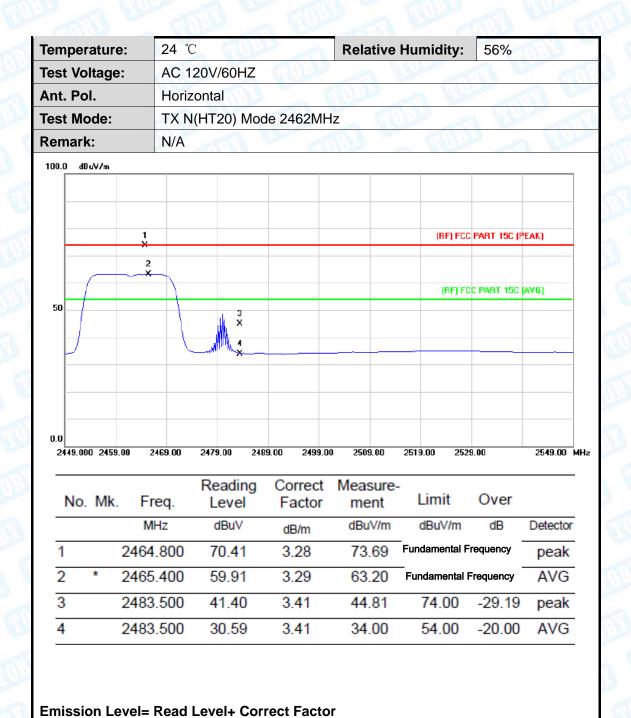


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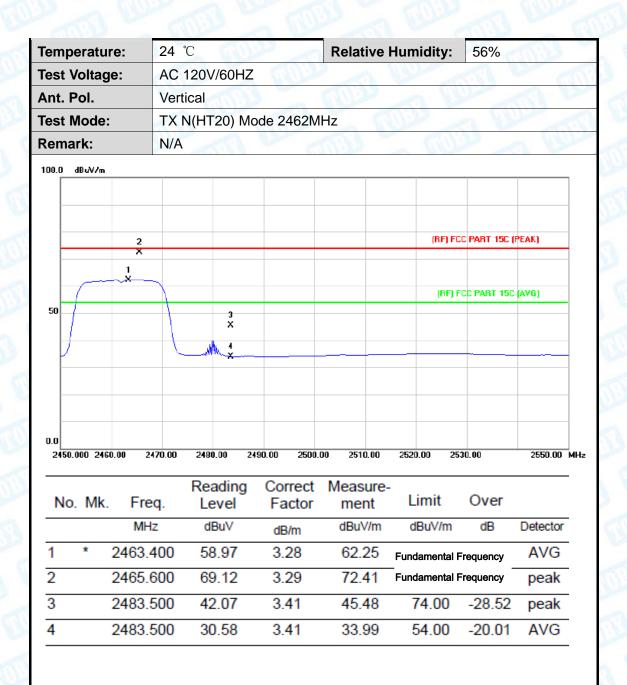


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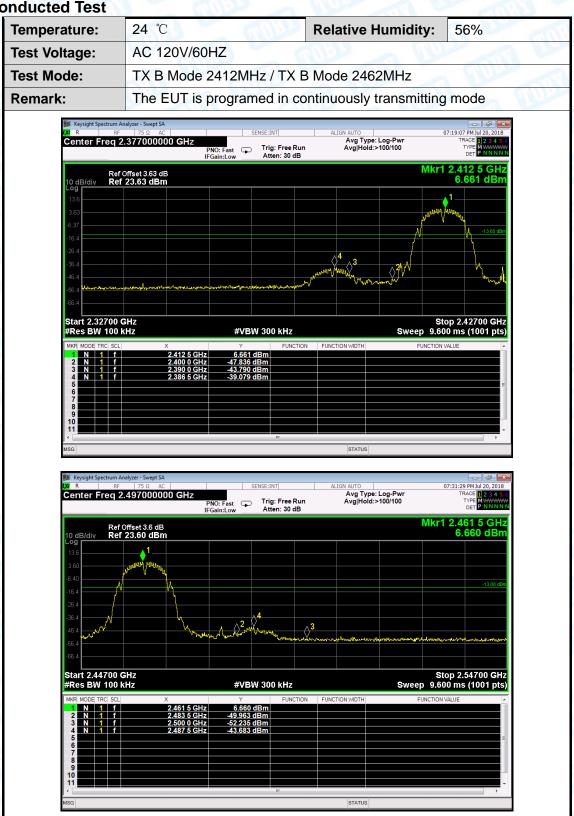






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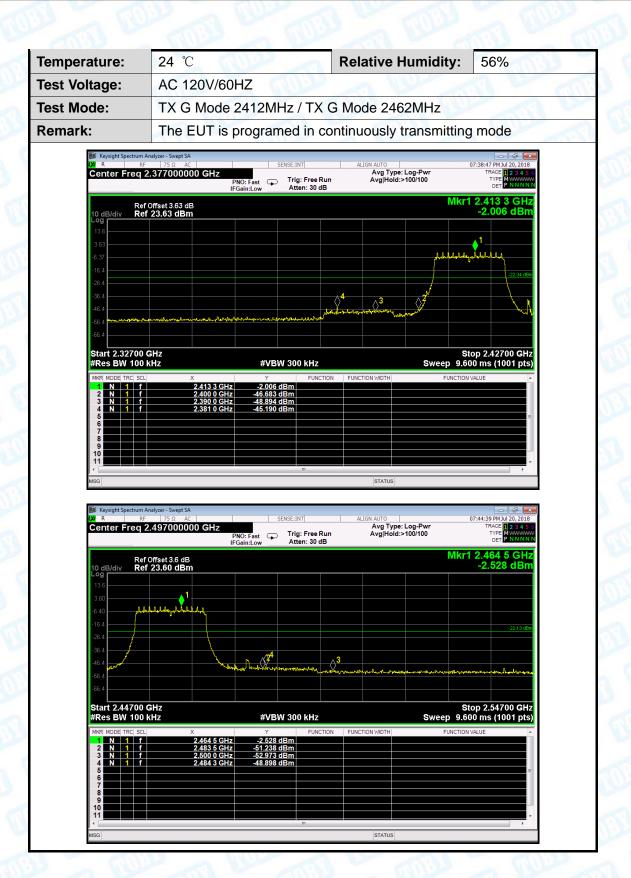
(3) Conducted Test







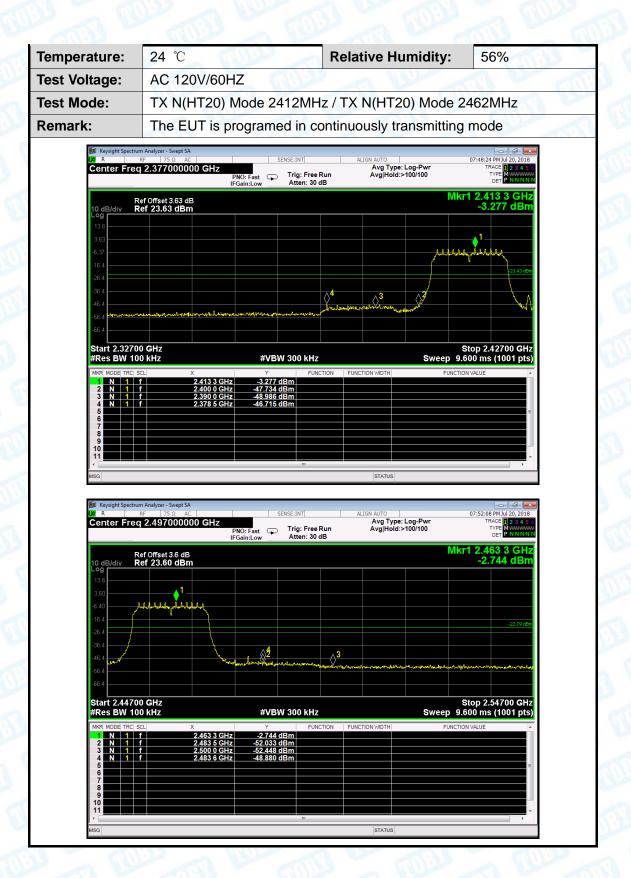
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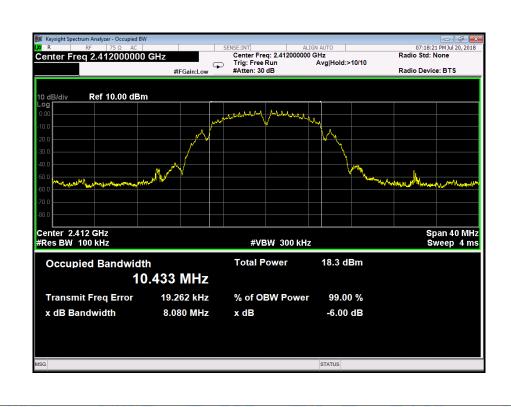


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Attachment D-- Bandwidth Test Data

Temperature:	24 °C	56%			
Test Voltage:	AC 120V/60HZ				
Test Mode:	TX 802.11B Mode				
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2412	8.080	10.433			
2437	8.073	10.452	>=0.5		
2462	8.071	10.446			

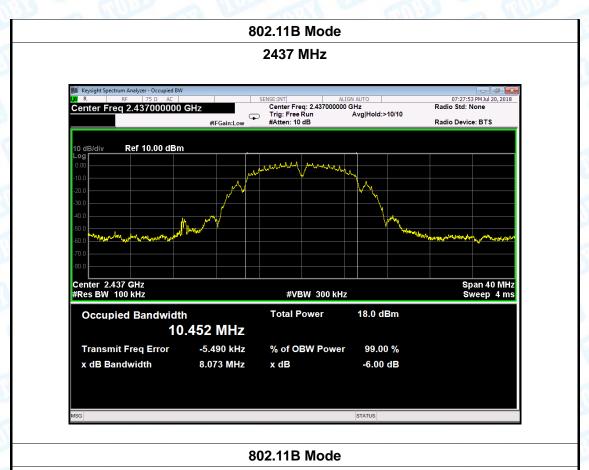
802.11B Mode

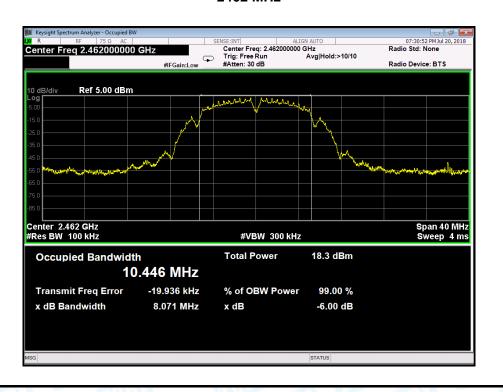




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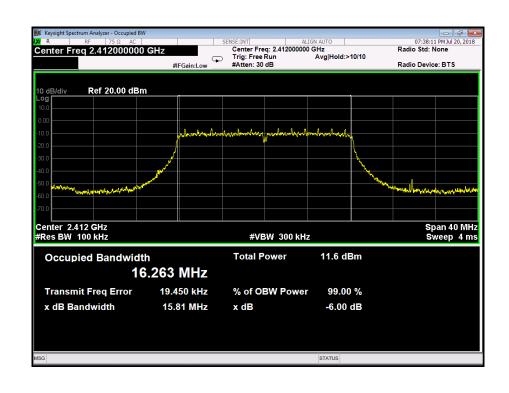


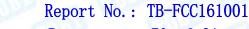


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Temperature:	24 ℃	Relative Humidity:	56%		
Test Voltage:	AC 120V/60HZ	The same of the sa	EL PROPERTY OF		
Test Mode:	: TX 802.11G Mode				
Channel frequence	cy 6dB Bandwidth	6dB Bandwidth 99% Bandwidth			
(MHz)	(MHz)	(MHz)	(MHz)		
2412	15.81	16.263			
2437	2437 16.04 16.2		>=0.5		
2462	15.81	16.256	-		

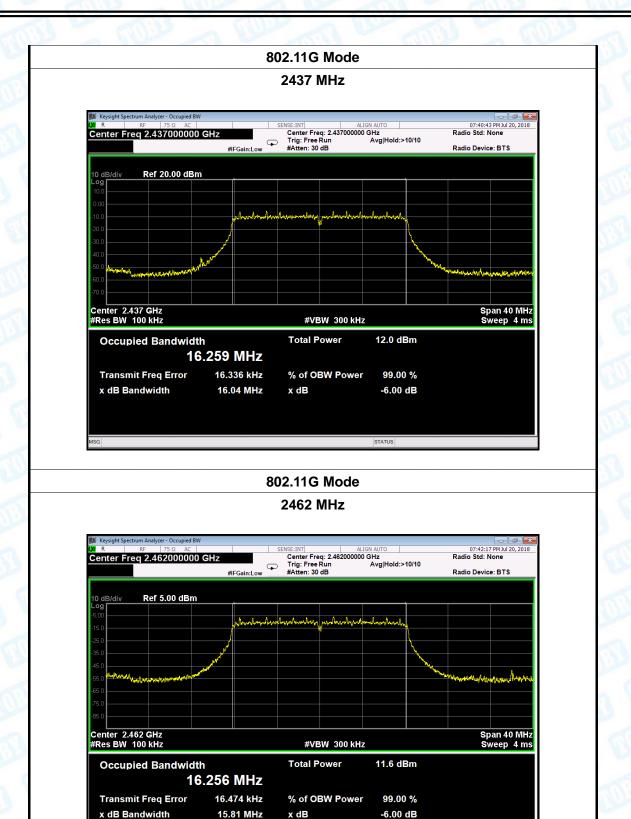
802.11G Mode





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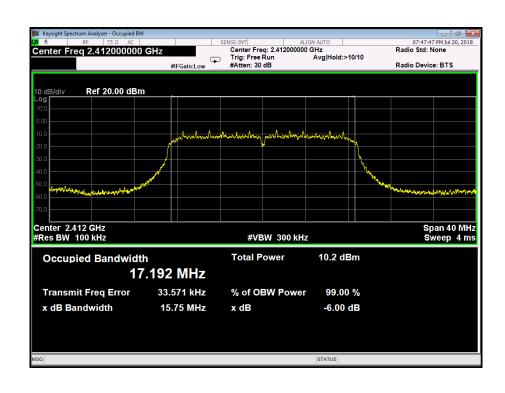




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Temperature:	24 ℃	Relative Humidity:	56%		
Test Voltage:	AC 120V/60HZ				
Test Mode:	TX 802.11N(HT20) Mode	Dir.			
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2412	15.75	17.192			
2437	15.71	17.201	>=0.5		
2462 15.63		17.190			
802 11N(HT20) Mode					

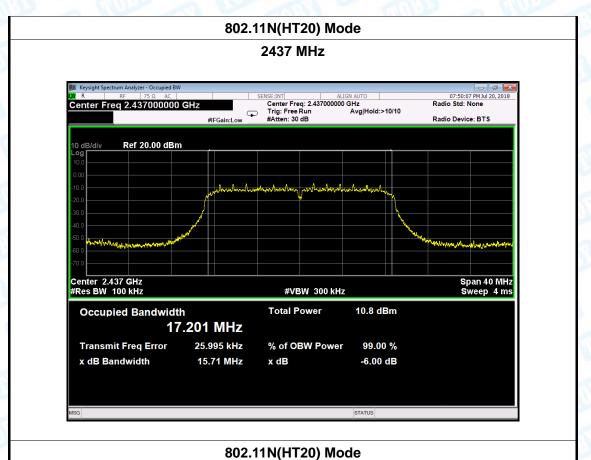
802.11N(HT20) Mode

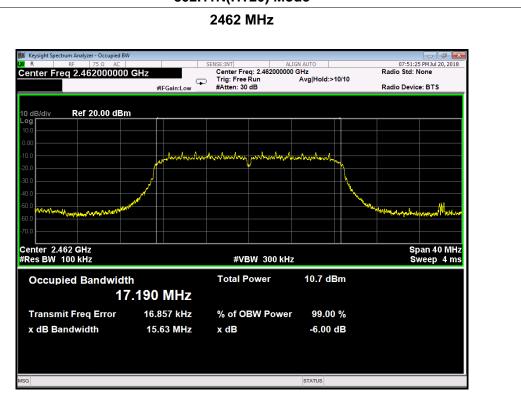




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Attachment E-- Peak Output Power Test Data

Test Conditions	Continuous transmitting Mode				
Temperature:	24 °C	Relative Humidity: 56%			
Test Voltage:	AC 120V/60HZ		a Burn		
Mode	Mode Channel frequency (MHz) Test I		Limit (dBm)		
	2412	-0.50			
802.11b	2437	0.59			
	2462	1.85			
	2412	2.73			
802.11g	2437	3.70	30		
	2462	4.67			
000 44	2412	2.45			
802.11n	2437	3.77			
(HT20)	2462	4.75			
'	Resu	ult: PASS			

Duty Cycle					
Mode	Channel frequency (MHz)	Test Result			
802.11b	2412				
	2437				
	2462				
	2412				
802.11g	2437	>98%			
	2462				
000 44	2412				
802.11n (HT20)	2437				
	2462				



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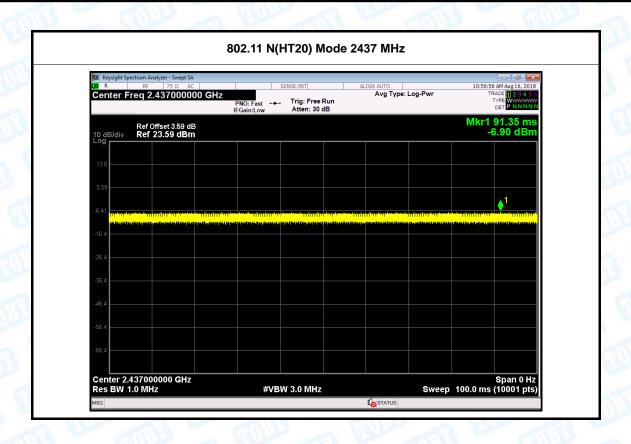


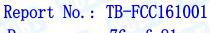
802.11 G Mode 2437 MHz





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Attachment F-- Power Spectral Density Test Data

Temperature:	24 °C Relative Hum		Relative Humidity:	56%	
Test Voltage:	AC 120V/	60HZ	WILLIAM TO	The same	
Test Mode:	TX 802.11B Mode				
Channel Frequency		Power Density		Limit	
(MHz)		(dBm/3 kHz)		(dBm/3kHz)	
2412		-30.90	-30.966		
2437		-29.937		8	
2462		-28.670			

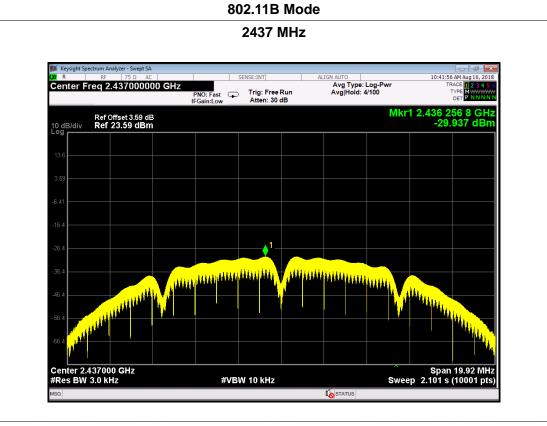
802.11B Mode



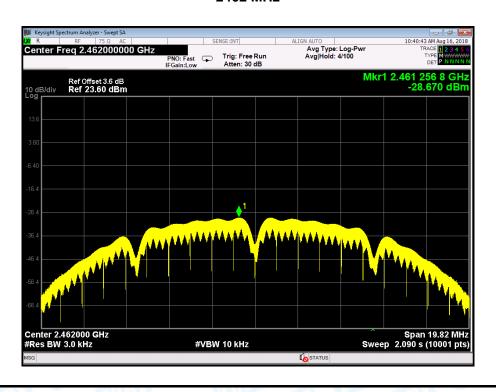


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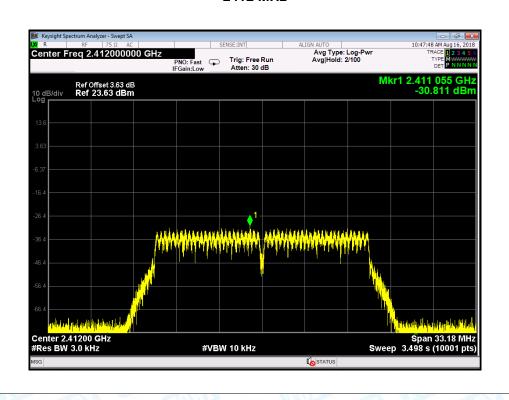
802.11B Mode





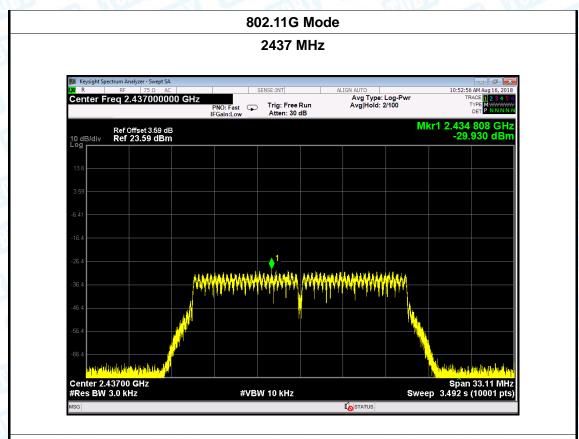
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Temperature:	24 ℃	24 °C Temperatu		24 °C		
Test Voltage:	AC 120V	AC 120V/60HZ				
Test Mode:	TX 802.1	TX 802.11G Mode				
Channel Fred	Channel Frequency Power Density Limit			Limit		
(MHz)		(dBm/3 kHz)		(dBm/3kHz)		
2412		-30.811				
2437		-29.930		8		
2462		-28.778				
802.11G Mode						
2412 MHz						

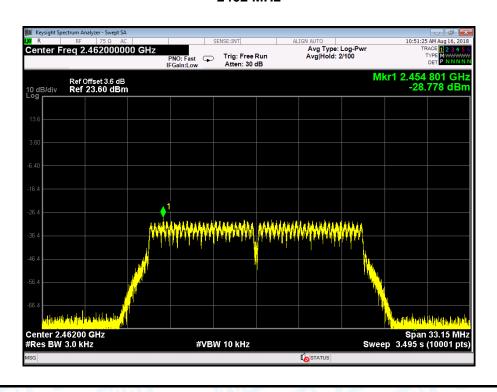




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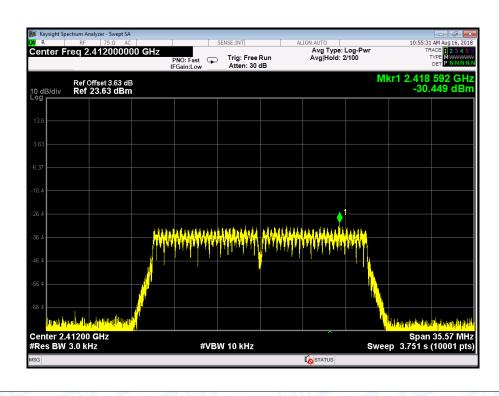
802.11G Mode





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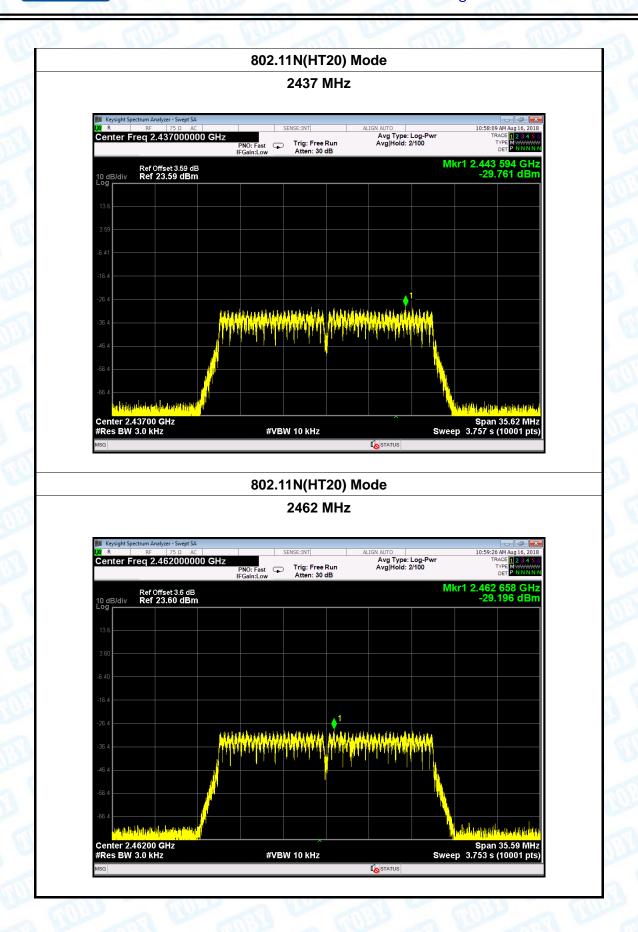
Temperature:	24 ℃	1000	Temperature:	24 °C	
Test Voltage:	AC 120V/	60HZ	THE PARTY OF THE P	THE STATE OF THE S	
Test Mode:	TX 802.11N(HT20) Mode				
Channel Frequency		Power Density		Limit	
(MHz)		(dBm/3 kHz)		(dBm/3kHz)	
2412		-30.44	9		
2437		-29.76	1	8	
2462		-29.196			
802.11N(HT20) Mode					





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