

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC159592

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FCC Radio Test Report FCC ID: 2APQN-US-PR1

Original Grant

Report No. TB-FCC159592

Shenzhen Yuandian Photoelectric Technology CO.,LTD **Applicant**

Equipment Under Test (EUT)

EUT Name American gauge 10-16A round WiFi socket

Model No. US-PR1

US-PR1, US-PR1+, US-P1, US-P2, US-P3, US-P1+, US-P2+, Series Model No.

US-P3+, US-P1L

Brand Name campana

Receipt Date 2018-05-02

2018-05-03 to 2018-05-09 **Test Date**

Issue Date 2018-05-10

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

LURAN SU Loy Li. **Engineer Supervisor**

Engineer Manager

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





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Revision History

Report No.	Version	Description	Issued Date
TB-FCC159592	Rev.01	Initial issue of report	2018-05-10
MODE	13/10/1		MODE
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1. General Information about EUT

1.1 Client Information

Applicant	:(Shenzhen Yuandian Photoelectric Technology CO.,LTD	
Address	:	Room 423A and 426, 4th floor, China Electronics Factory, No.2, Fuan Avenue, Pinghu street, Longgang District, Shenzhen, China	
Manufacturer		Shenzhen Yuandian Photoelectric Technology CO.,LTD	
Address	÷	Room 423A and 426, 4th floor, China Electronics Factory, No.2, Fuan Avenue, Pinghu street, Longgang District, Shenzhen, China	

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	American gauge 10-16A round WiFi socket				
Models No.	•		JS-PR1, US-PR1, US-PR1+, US-P1, US-P2, US-P3, US-P1+, JS-P2+, US-P3+, US-P1L			
Models Difference	ŀ		entical in the same PCB layout and electrical nce is the appearance and size.			
		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz			
Olives and	1	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)			
Product Description	00	RF Output Power:	802.11b: 17.52dBm 802.11g: 16.48dBm 802.11n (HT20): 16.35dBm			
Description		Antenna Gain:	2dBi PCB Antenna			
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)			
Power Supply		AC Voltage supplied				
Power Rating	:	Input: AC 85~230V, 50/60Hz, 10A				
Software Version	:	oem_esp_switch V0.1.2				
Hardware Version		: V1.0.2				
Connecting I/O Port(S)		Please refer to the Use	Please refer to the User's Manual			

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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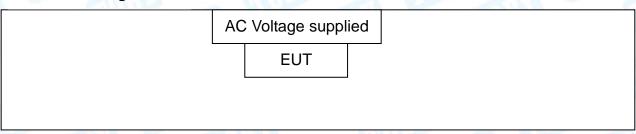
(3) Channel List:

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)							

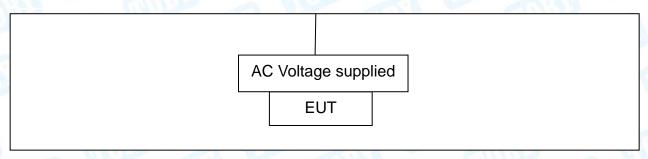
(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

Normal Working Mode



TX Mode



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	700	SecureCRT.exe	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	0	0	248
IEEE 802.11g OFDM	24	24	16
IEEE 802.11n (HT20)	25	45	45

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:	
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:	. 4 20 dB
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	t 15 Subpart C(15.247)/ RSS 247	Issue 2	
Standa	rd Section	Test Item	ludamont	Remark
FCC IC		rest item	Judgment	Remark
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) 5.	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
	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

Conducted Emiss	ion Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 20, 2017	Jul. 19, 2018
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 20, 2017	Jul. 19, 2018
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 20, 2017	Jul. 19, 2018
LISN	Rohde & Schwarz	ENV216	101131	Jul. 20, 2017	Jul. 19, 2018
Radiation Emission	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 20, 2017	Jul. 19, 2018
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. 03, 2017	Jul. 02, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.16, 2018	Mar. 15, 2019
Pre-amplifier	HP	8449B	3008A00849	Mar.16, 2018	Mar. 15, 2019
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.16, 2018	Mar. 15, 2019
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conduct	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 20, 2017	Jul. 19, 2018
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
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Oct. 26, 2017	Oct. 25, 2018
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Oct. 26, 2017	Oct. 25, 2018
IVI I OMEI OEIISUI	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

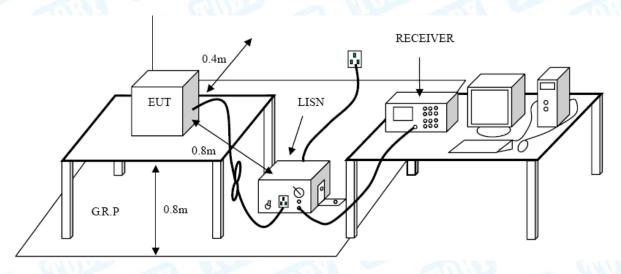
Conducted Emission Test Limit

-01333 Francis (01)335	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average 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
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

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

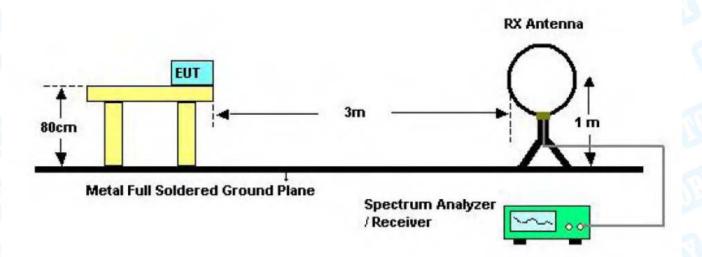
Note:

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

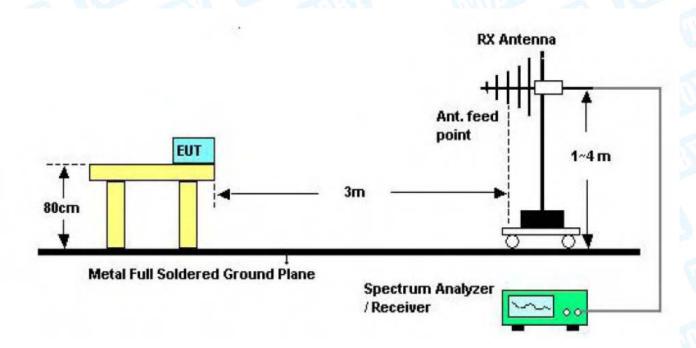


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5.2 Test Setup



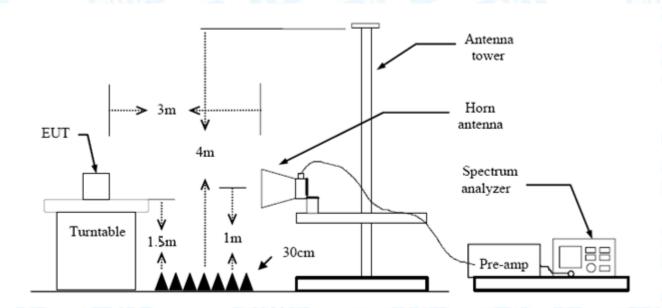
Below 30MHz Test Setup



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 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.
- (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.



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(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.

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)

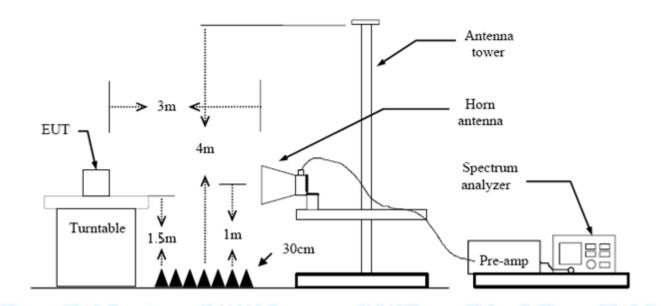
FCC Part 15.209

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 up to 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

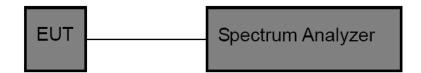
7.1 Test Standard and Limit

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

7.1.2 Test Limit

FCC	FCC Part 15 Subpart C(15.247)/RSS-210					
Test Item	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

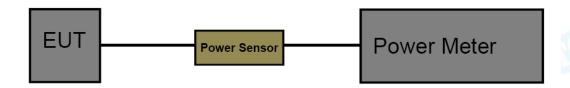
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210						
Test Item	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

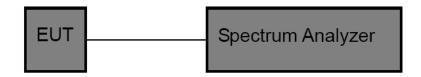
9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)						
Test Item	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.

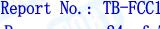
10.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 2dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

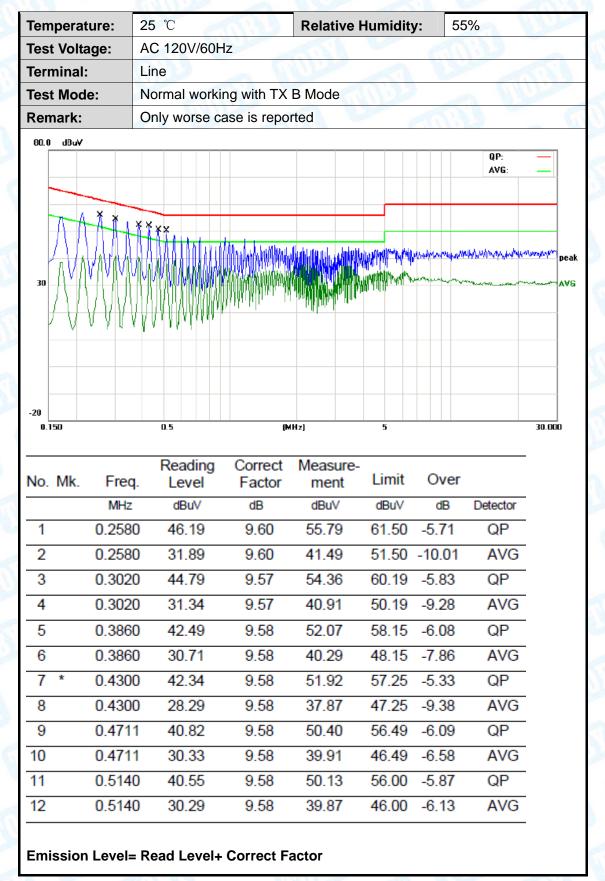
The EUT antenna is a PCB Antenna. It complies with the standard requirement.

	Antenna Type					
J. T.	⊠Permanent attached antenna	W.				
	Unique connector antenna					
23	Professional installation antenna	OBE				



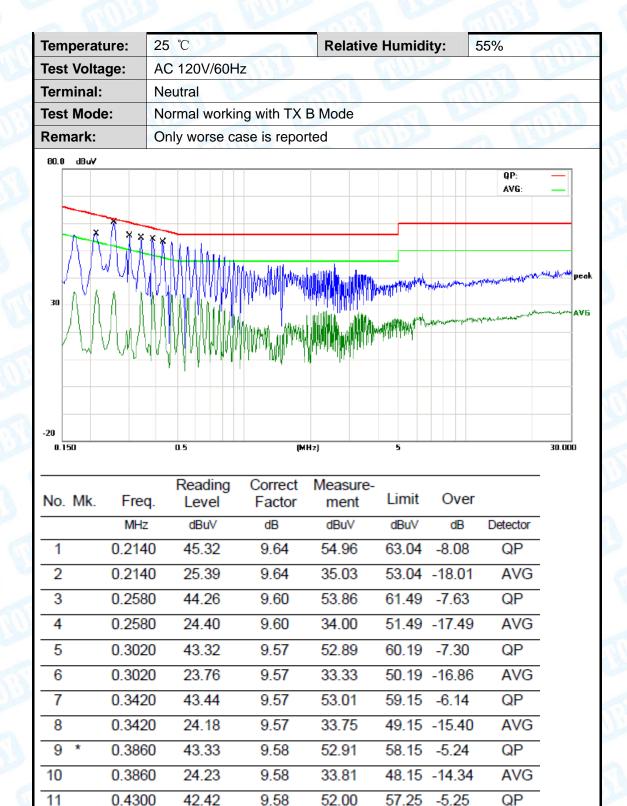
Report No.: TB-FCC159592 Page: 24 of 77

Attachment A-- Conducted Emission Test Data





Report No.: TB-FCC159592 Page: 25 of 77



Emission Level= Read Level+ Correct Factor

23.58

9.58

33.16

47.25 -14.09

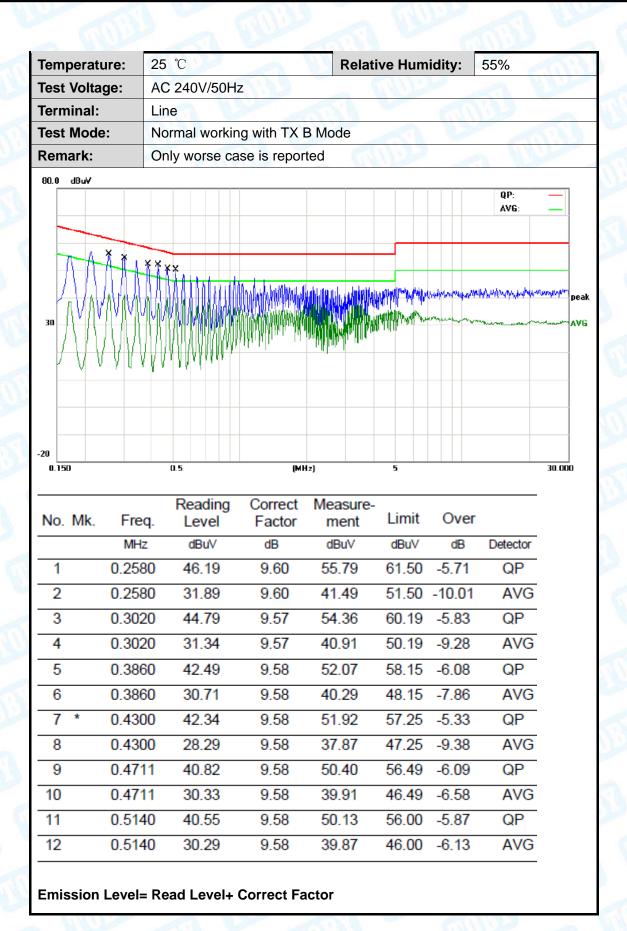
AVG

0.4300

12



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Report No.: TB-FCC159592
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Ten	nperature:	25 ℃		Relativ	e Humi	aity:	55%	
	t Voltage:	AC 240V/50H	-lz					S. A. L.
Ter	minal:	Neutral		180		Call	133	
Tes	t Mode:	Normal work	ing with TX E	B Mode	41	60		MIL
Rer	mark:	Only worse of	ase is repor	ted	11/2)			A Line
80.0	0 dBuV						QP:	
30					W Walter	What was	AVG:	
	150	0.5 Reading	Correct	H ₂] Measure-	5			30.000
0.	Mk. Fred	Reading Level	Correct Factor	Measure- ment	Limit	Over		30.000
0.	Mk. Fred	Reading Level	Correct Factor	Measure- ment dBuV	Limit dBuV	dB	Detector	30.000
No.	Mk. Fred	Reading Level	Correct Factor	Measure- ment dBuV 49.08	Limit		Detector QP	30.000
n. No.	Mk. Fred	Reading Level dBuV 0 39.50	Correct Factor	Measure- ment dBuV	Limit dBuV	dB	Detector	30.000
No.	Mk. Fred MHz 0.558	Reading Level dBuV 0 39.50 0 29.77	Correct Factor dB 9.58	Measure- ment dBuV 49.08	Limit dBuV 56.00	dB -6.92	Detector QP	30.000
No.	Mk. Fred MHz 0.558 0.558	Reading Level dBuV 0 39.50 0 29.77 0 39.27	Correct Factor dB 9.58 9.58	Measure- ment dBuV 49.08 39.35	Limit dBuV 56.00 46.00	dB -6.92 -6.65	Detector QP AVG	30.000
No.	Mk. Fred MHz 0.558 0.558 0.602 0.602	Reading Level dBuV 0 39.50 0 29.77 0 39.27 0 30.16	Correct Factor dB 9.58 9.58 9.59	Measure- ment dBuV 49.08 39.35 48.86	Limit dBuV 56.00 46.00 56.00	dB -6.92 -6.65 -7.14	QP AVG QP	30.000
No. 1 2 3 4	Mk. Fred MHz 0.558 0.558 0.602 0.602	Reading Level dBu/ 0 39.50 0 29.77 0 39.27 0 30.16 0 38.70	Correct Factor dB 9.58 9.58 9.59	Measure- ment dBuV 49.08 39.35 48.86 39.75	Limit dBuV 56.00 46.00 56.00 46.00	dB -6.92 -6.65 -7.14 -6.25 -7.71	QP AVG QP AVG	· · · · · · ·
No. 1 2 3 4 5	Mk. Fred MHz 0.558 0.558 0.602 0.602 0.686	Reading Level dBuV 0 39.50 0 29.77 0 39.27 0 30.16 0 38.70 0 30.51	Correct Factor dB 9.58 9.58 9.59 9.59	Measure- ment dBuV 49.08 39.35 48.86 39.75 48.29	Limit dBuV 56.00 46.00 56.00 46.00 56.00	dB -6.92 -6.65 -7.14 -6.25 -7.71	QP AVG QP AVG QP	
No. 1 2 3 4 5 6	Mk. Fred MHz 0.558 0.558 0.602 0.602 0.686 0.774	Reading Level dBuV 0 39.50 0 29.77 0 39.27 0 30.16 0 38.70 0 30.51 0 38.89	Correct Factor dB 9.58 9.58 9.59 9.59 9.59	Measure- ment dBuV 49.08 39.35 48.86 39.75 48.29 40.10	Limit dBuV 56.00 46.00 56.00 46.00 46.00	dB -6.92 -6.65 -7.14 -6.25 -7.71 -5.90	QP AVG QP AVG QP AVG	
No. 1 2 3 4 5 6 7	Mk. Fred MHz 0.558 0.558 0.602 0.602 0.686 0.686 0.774	Reading Level dBuV 0 39.50 0 29.77 0 39.27 0 30.16 0 38.70 0 30.51 0 38.89 0 31.19	Correct Factor dB 9.58 9.58 9.59 9.59 9.59 9.59	Measure- ment dBuV 49.08 39.35 48.86 39.75 48.29 40.10 48.48	Limit dBuV 56.00 46.00 56.00 46.00 56.00 46.00	dB -6.92 -6.65 -7.14 -6.25 -7.71 -5.90 -7.52	QP AVG QP AVG QP AVG QP	
No. 1 2 3 4 5 6 7 8	Mk. Fred MHz 0.558 0.558 0.602 0.602 0.686 0.774 0.774	Reading Level dBuV 0 39.50 0 29.77 0 39.27 0 30.16 0 38.70 0 30.51 0 38.89 0 31.19 0 39.78	Correct Factor dB 9.58 9.58 9.59 9.59 9.59 9.59 9.59	Measure- ment dBuV 49.08 39.35 48.86 39.75 48.29 40.10 48.48 40.78	Limit dBuV 56.00 46.00 56.00 46.00 56.00 46.00 56.00 56.00	dB -6.92 -6.65 -7.14 -6.25 -7.71 -5.90 -7.52	QP AVG QP AVG QP AVG AVG	
No. 1 2 3 4 5 6 7 8	Mk. Fred MHz 0.558 0.558 0.602 0.602 0.686 0.774 0.774	Reading Level dBuV 0 39.50 0 29.77 0 39.27 0 30.16 0 38.70 0 30.51 0 38.89 0 31.19 0 39.78 0 32.25	Correct Factor dB 9.58 9.58 9.59 9.59 9.59 9.59 9.59 9.59	Measure- ment dBuV 49.08 39.35 48.86 39.75 48.29 40.10 48.48 40.78 49.37	Limit dBuV 56.00 46.00 56.00 46.00 46.00 56.00 46.00	dB -6.92 -6.65 -7.14 -6.25 -7.71 -5.90 -7.52 -5.22 -6.63	QP AVG QP AVG QP AVG QP AVG QP AVG	



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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:	25 ℃	100		Relative Hu	midity:	55%	
Test Voltage:	AC 12	0V/60HZ	F. Comment		200	an'	33
Ant. Pol.	Horizo	ntal		THE PARTY		P. See	-
Test Mode:	TXBI	Mode 2412N	ИHz	<u> </u>	11100		11/1
Remark:	Only v	vorse case i	s reported		e de la companya della companya della companya de la companya della companya dell	TO BE	
80.0 dBuV/m							
30	2 X		**************************************	75 \$ X	Λ.	5C 3M Radiation Margin -6	
30.000 40	50 60 70	Reading	(MHz)	300 Measure-	400 5	500 600 700	1000.00
No. Mk.	Freq.	Level	Factor	ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1 37	7.0248	48.88	-17.78	31.10	40.00	-8.90	QP
2 ! 56	6.7916	59.86	-23.89	35.97	40.00	-4.03	QP
	8.4138	54.08	-20.31	33.77	43.50	-9.73	QP
	4.4898	53.76	-19.88	33.88	43.50	-9.62	QP
	7.6904	59.09	-18.18	40.91	46.00	-5.09	QP
J : ZZ		59.09	-16.30	42.74	46.00	-3.26	QP
	2.9852			/1:///	716 [11]	2 16	(10



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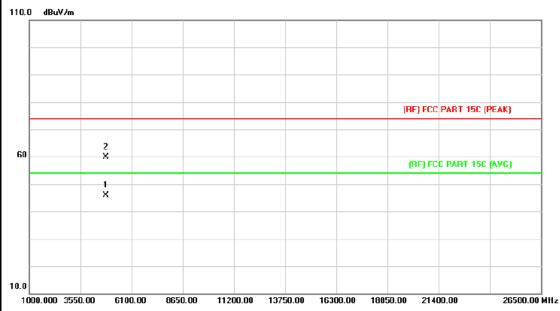
	25 ℃		R	elative Humid	dity: 55	5%		
Test Voltage:	AC 12	20V/60HZ	30	THE THE			MA	
Ant. Pol.	Vertic	al		811	The state of	133		
Test Mode:	TX B	TX B Mode 2412MHz						
Remark:	Only	worse case	e is reported	MILLS		a W	A STATE OF THE PARTY OF THE PAR	
80.0 dBuV/m								
					(RF)FCC 1	5C 3M Radiation	,	
				5 6		Margin -6	dB	
1 2 X X	3		×	T X X				
30	\wedge		N / /WY	MV VM)	, Jun	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	home	
	7	(m) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	** \ \\\\	M	~\\V			
	hw.	M						
-20								
30.000 40 50	60 70		(MHz)	300	400 50	00 600 700	1000.00	
	0 60 70		(MHz) Correct	Measure-	400 50	00 600 700	1000.00	
30.000 40 50	o 60 70	Reading Level			400 50	00 600 700 Over	1000.00	
30.000 40 50 No. Mk. F		Reading	Correct	Measure-			1000.00	
30.000 40 50 No. Mk. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
No. Mk. F	req. 1Hz 5478	Reading Level dBuV 53.92	Correct Factor dB/m -18.10	Measure- ment dBuV/m 35.82	Limit dBuV/m 40.00	Over dB	Detecto	
No. Mk. F No. 1 ! 37.5 2 * 41.5	req. 1Hz 5478	Reading Level dBuV 53.92 56.40	Correct Factor dB/m -18.10 -20.08	Measure- ment dBuV/m 35.82 36.32	Limit dBuV/m 40.00 40.00	Over dB -4.18 -3.68	Detecto QP QP	
No. Mk. F No. Mk. F 1 ! 37.5 2 * 41.7 3 ! 54.8	req. 1Hz 5478 1319	Reading Level dBuV 53.92 56.40 60.00	Correct Factor dB/m -18.10 -20.08 -23.87	Measure- ment dBuV/m 35.82 36.32 36.13	Limit dBuV/m 40.00 40.00 40.00	Over dB -4.18 -3.68 -3.87	Detecto QP QP QP	
No. Mk. F No. Mk. F 1 ! 37.5 2 * 41.7 3 ! 54.8 4 ! 135.	req. 1Hz 5478 1319 3348 5062	Reading Level dBuV 53.92 56.40 60.00 61.23	Correct Factor dB/m -18.10 -20.08 -23.87 -21.44	Measure- ment dBuV/m 35.82 36.32 36.13 39.79	Limit dBuV/m 40.00 40.00 40.00 43.50	Over dB -4.18 -3.68 -3.87 -3.71	QP QP QP QP	
No. Mk. F No. Mk. F 1 ! 37.5 2 * 41.7 3 ! 54.8 4 ! 135.	req. 1Hz 5478 1319	Reading Level dBuV 53.92 56.40 60.00	Correct Factor dB/m -18.10 -20.08 -23.87	Measure- ment dBuV/m 35.82 36.32 36.13	Limit dBuV/m 40.00 40.00 40.00	Over dB -4.18 -3.68 -3.87	Detecto QP QP QP	



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Above 1GHz

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ	THE PARTY OF THE P	
Ant. Pol.	Horizontal	(3) T	
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission	which more than 10 dE	B below the prescribed
	limit.		

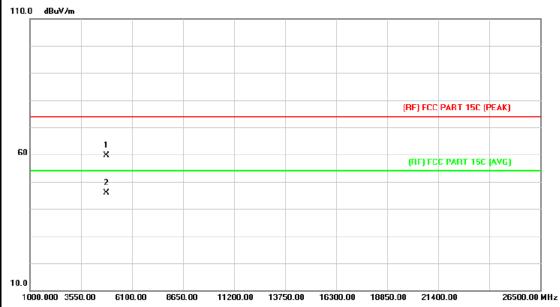


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4828.140	29.25	16.75	46.00	54.00	-8.00	AVG
2		4827.300	43.16	16.75	59.91	74.00	-14.09	peak



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2412MHz						
Remark:	No report for the emis	ssion which more than 10 dB	below the				
110.0 dD.M.m							

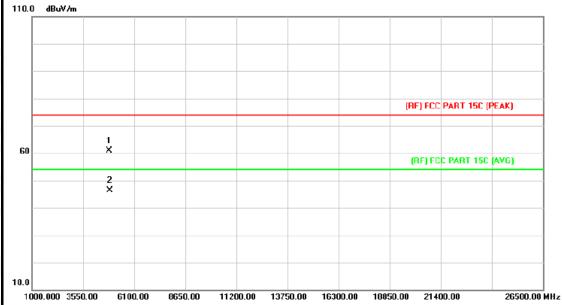


No.	. Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4825.520	42.97	16.74	59.71	74.00	-14.29	peak
2	*	4827.440	29.24	16.75	45.99	54.00	-8.01	AVG



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Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ							
Ant. Pol.	Horizontal	Horizontal							
Test Mode:	TX B Mode 2437MHz								
Remark: No report for the emission which more than 10 dB below the prescribed limit.									
110.0 dBuV/m									

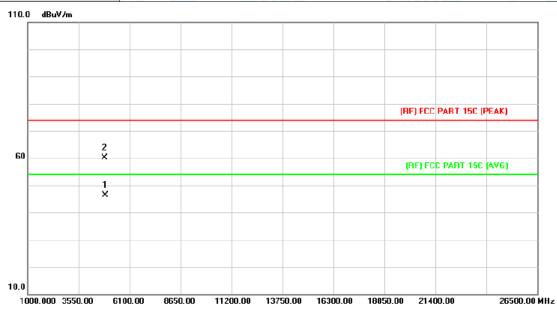


No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4872.020	43.68	17.09	60.77	74.00	-13.23	peak
2	*	4878.160	29.15	17.14	46.29	54.00	-7.71	AVG



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		Miss of
Test Mode:	TX B Mode 2437M	-lz	
Remark:	No report for the en prescribed limit.	nission which more than 10 dE	B below the
110.0 dRuV/m			

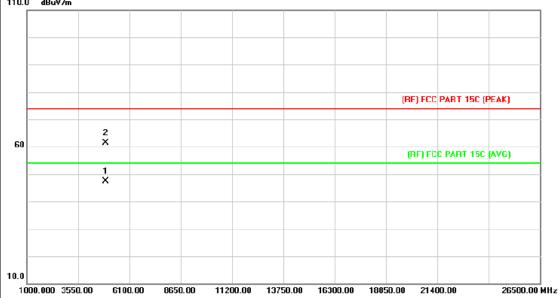


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4877.980	29.14	17.14	46.28	54.00	-7.72	AVG
2		4869.120	42.98	17.07	60.05	74.00	-13.95	peak



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Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60HZ	THE PARTY OF THE P	A VIII		
Ant. Pol.	Horizontal		M:323		
Test Mode:	Mode: TX B Mode 2462MHz				
Remark:	3 below the				
110.0 dBuV/m					

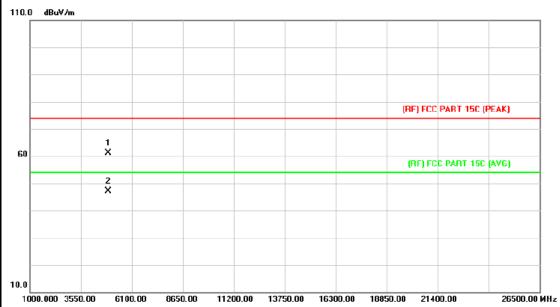


No	. Mk	Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4925.740	29.78	17.52	47.30	54.00	-6.70	AVG
2		4921.000	43.83	17.48	61.31	74.00	-12.69	peak



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_				
1	Temperature:	25 ℃	Relative Humidity:	55%
	Test Voltage:	AC 120V/60HZ	TULL	
	Ant. Pol.	Vertical	31	11:33
•	Test Mode:	TX B Mode 2462MHz		
	Remark:	No report for the emission prescribed limit.	which more than 10 dE	3 below the

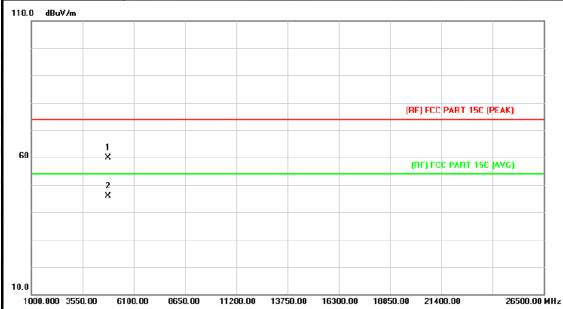


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4925.420	43.57	17.52	61.09	74.00	-12.91	peak
2	*	4925.860	29.72	17.52	47.24	54.00	-6.76	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	TUDE	THE PERSON NAMED IN				
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2412MHz						
Remark:	No report for the emission prescribed limit.	which more than 10 de	3 below the				
110.0 dBuV/m							

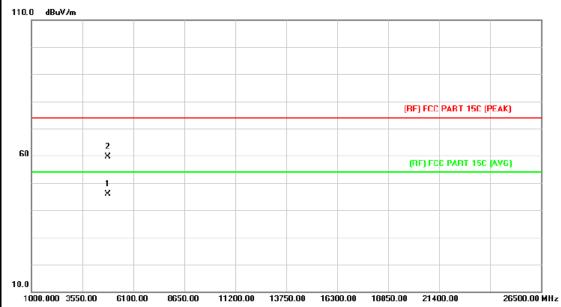


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4819.940	43.18	16.69	59.87	74.00	-14.13	peak
2	*	4827.100	29.25	16.75	46.00	54.00	-8.00	AVG



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ	THE PARTY OF THE P	
Ant. Pol.	Vertical		7
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission prescribed limit.	which more than 10 de	3 below the
110.0 JD.W.			

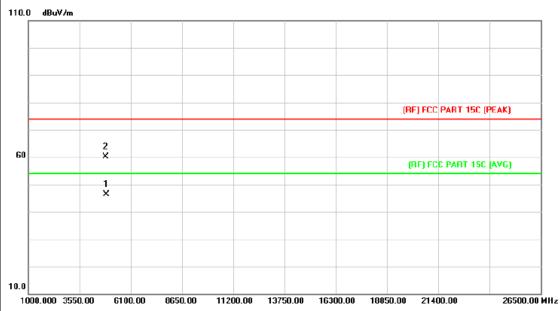


No.	Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4828.620	29.23	16.75	45.98	54.00	-8.02	AVG
2		4821.720	42.93	16.70	59.63	74.00	-14.37	peak



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Temperature	e: 25 °C	Relative Humidity:	55%
Test Voltage	e: AC 120V/60HZ	Million	
Ant. Pol.	Horizontal		Miss of
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emis prescribed limit.	sion which more than 10 d	3 below the
	·		

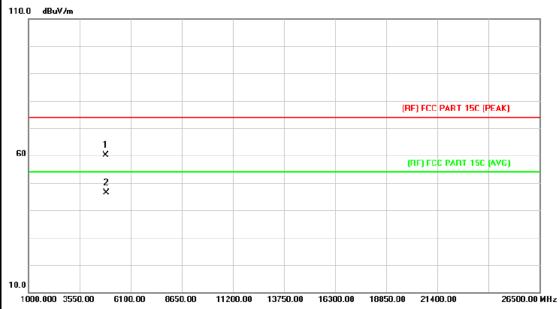


No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4877.140	29.16	17.14	46.30	54.00	-7.70	AVG
2		4870.000	42.99	17.08	60.07	74.00	-13.93	peak



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ	THE PARTY OF THE P	
Ant. Pol.	Vertical		W 25
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission prescribed limit.	which more than 10 de	3 below the
110.0 dBuV/m			

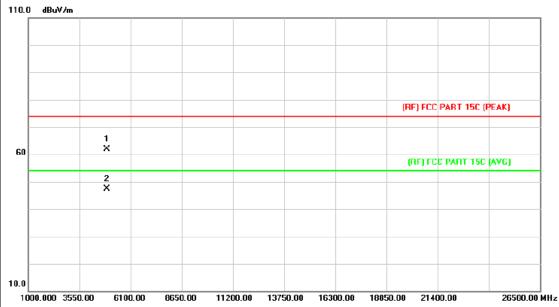


No.	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4870.740	43.11	17.08	60.19	74.00	-13.81	peak
2	*	4877.940	29.14	17.14	46.28	54.00	-7.72	AVG



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ	THE PARTY OF THE P				
Ant. Pol.	nt. Pol. Horizontal					
Test Mode:	TX G Mode 2462MHz					
Remark:	No report for the emission prescribed limit.	which more than 10 dB	3 below the			
110.0 dBuV/m						



No.	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.200	44.40	17.50	61.90	74.00	-12.10	peak
2	*	4925.480	29.75	17.52	47.27	54.00	-6.73	AVG



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage: AC 120V/60HZ						
Ant. Pol.	Vertical		11333			
Test Mode:	TX G Mode 2462MHz					
Remark:	No report for the en	nission which more than 10 dl	B below the			
110.0 dBuV/m						

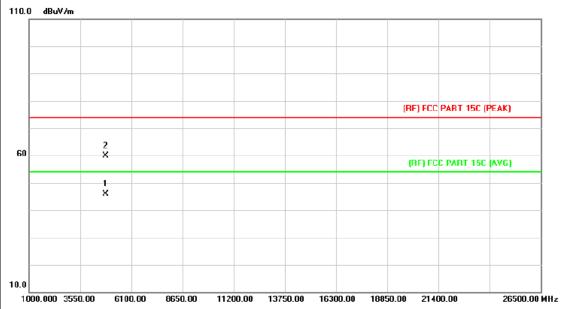


No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4925.040	29.72	17.52	47.24	54.00	-6.76	AVG
2		4920.980	43.90	17.47	61.37	74.00	-12.63	peak



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2412M	Hz	TO THE				
Remark:	emark: No report for the emission which more than 10 dB below the prescribed limit.						
440.0 10.111	·						

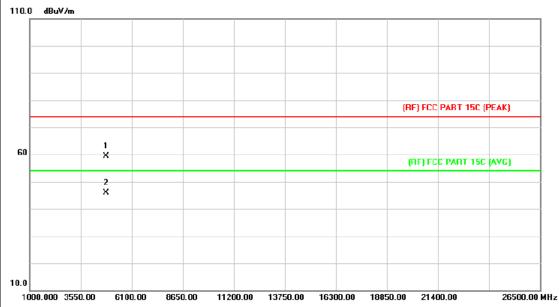


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4828.240	29.17	16.75	45.92	54.00	-8.08	AVG
2		4822.000	43.18	16.71	59.89	74.00	-14.11	peak



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical		TIEST TO THE PARTY OF THE PARTY				
Test Mode:	TX N(HT20) Mode 2412M	Hz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

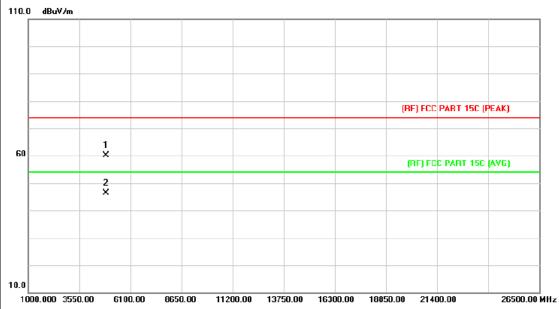


No	. Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.560	42.73	16.72	59.45	74.00	-14.55	peak
2	*	4828.560	29.21	16.75	45.96	54.00	-8.04	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal		1133				
Test Mode:	TX N(HT20) Mode 2437M	Hz	TO THE				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
440.0 10.111							

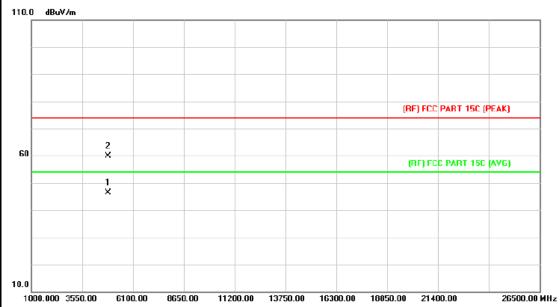


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4877.240	42.98	17.14	60.12	74.00	-13.88	peak
2	*	4877.620	29.14	17.14	46.28	54.00	-7.72	AVG



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		1133
Test Mode:	TX N(HT20) Mode	e 2437MHz	
Remark:	No report for the e	emission which more than 10 dB	3 below the
440.0 10.111			

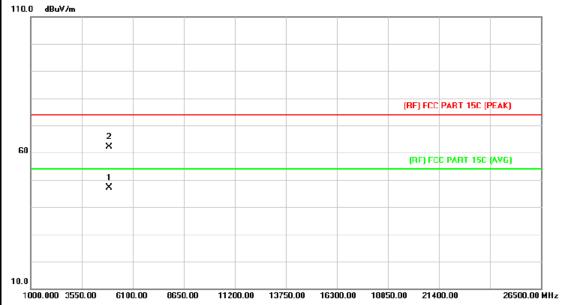


N	o. Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4875.980	29.16	17.12	46.28	54.00	-7.72	AVG
2		4870.540	42.88	17.08	59.96	74.00	-14.04	peak



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		133
Test Mode:	TX N(HT20) Mode 2	2462MHz	TOP I
Remark:	No report for the en prescribed limit.	nission which more than 10 dB	below the
110.0 dBuV/m			

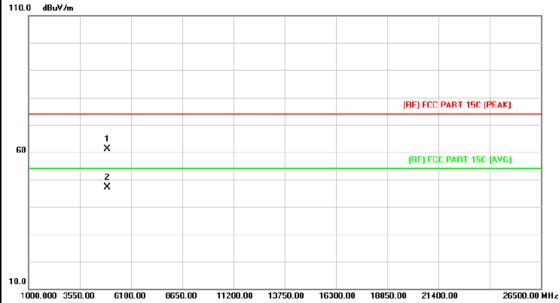


No	. Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.220	29.73	17.50	47.23	54.00	-6.77	AVG
2		4926.720	44.49	17.52	62.01	74.00	-11.99	peak



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		A-11111	
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		1333
Test Mode:	TX N(HT20) Mode	2462MHz	
Remark:	No report for the element prescribed limit.	mission which more than 10 dB	below the
110.0 dBuV/m			



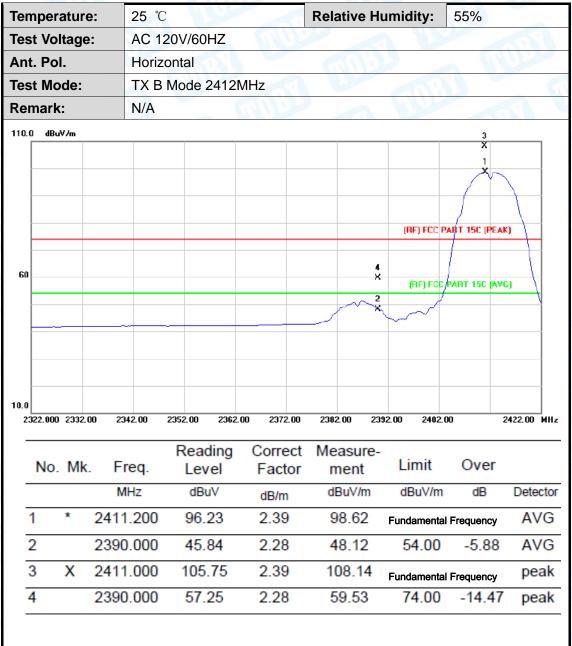
No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4926.580	43.59	17.52	61.11	74.00	-12.89	peak
2	*	4925.660	29.71	17.52	47.23	54.00	-6.77	AVG



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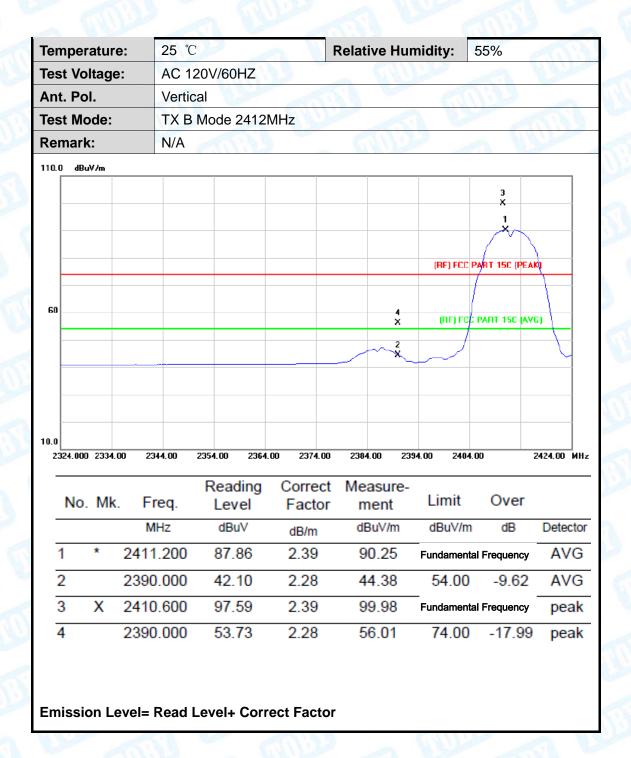
Attachment C-- Restricted Bands Requirement Test Data

(1) Radiation Test



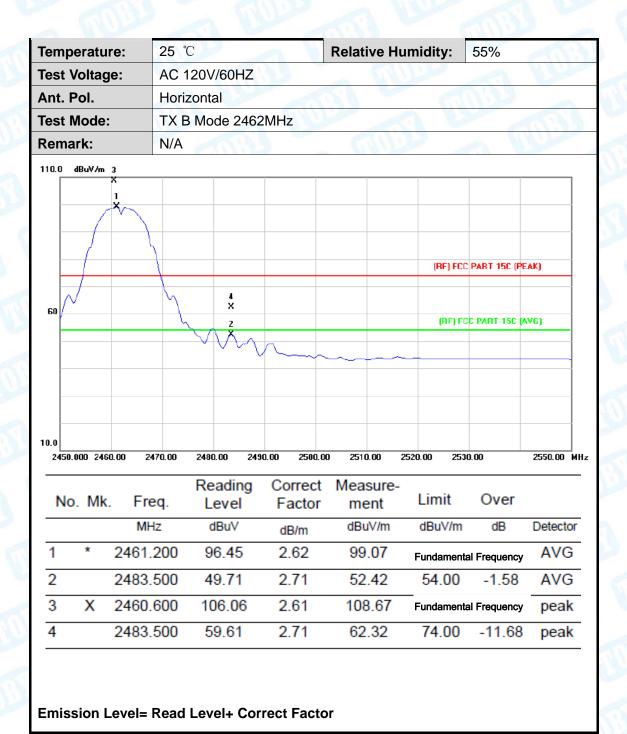


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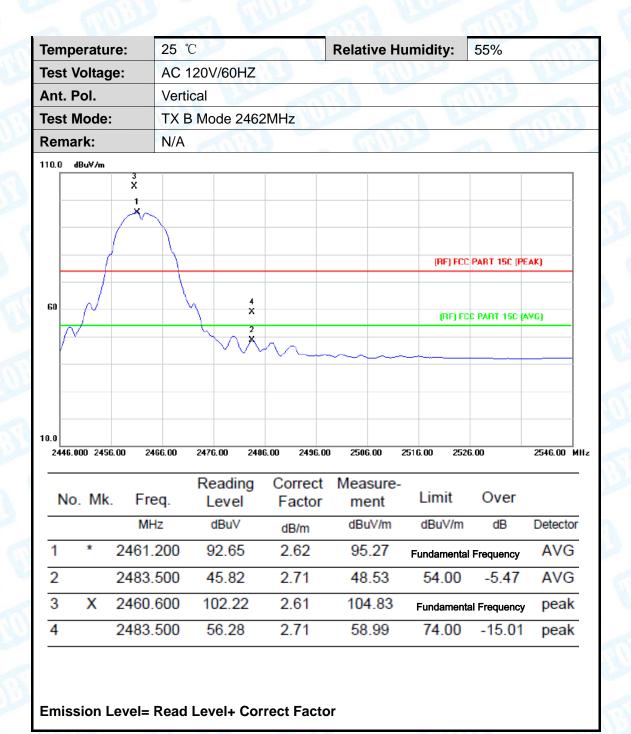


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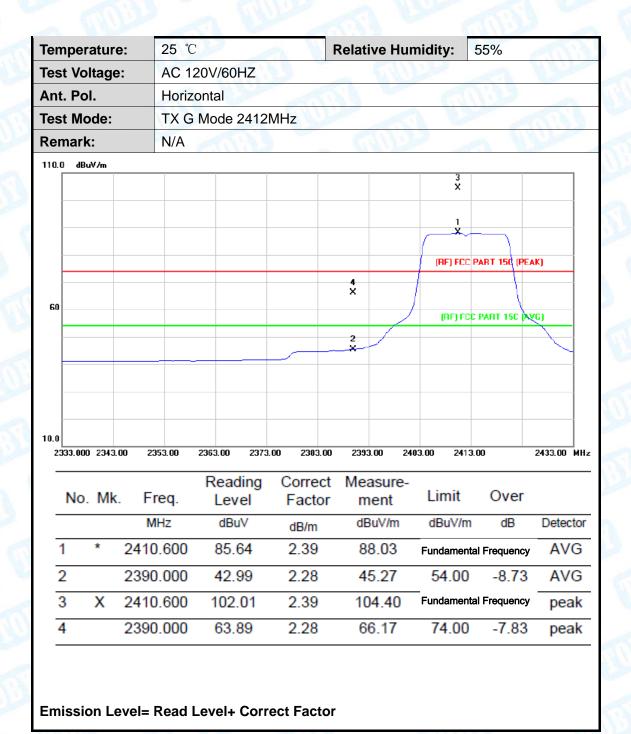


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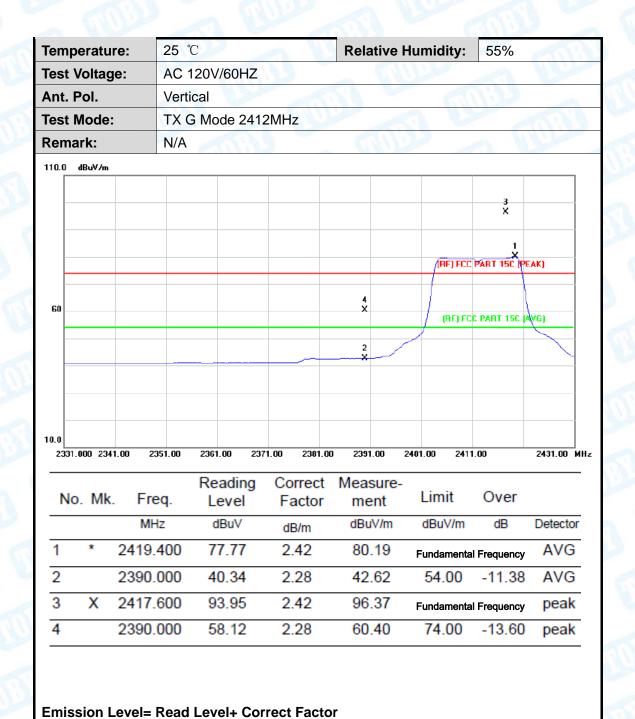


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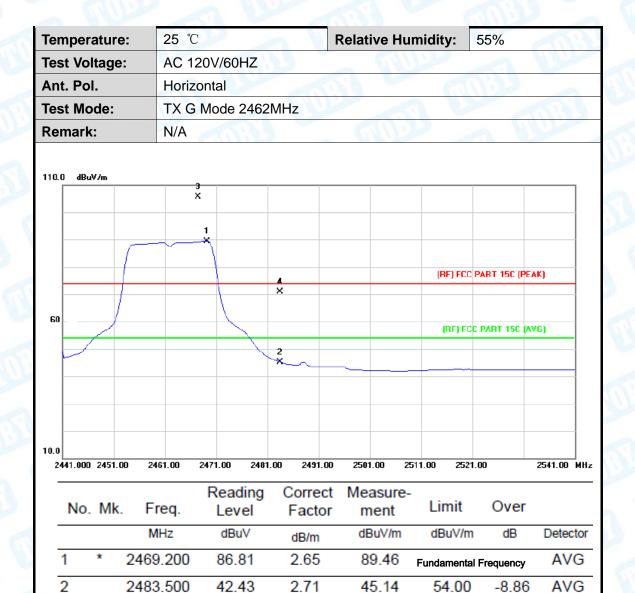


3

4

Report No.: TB-FCC159592

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2.64

2.71

105.66

70.95

Fundamental Frequency

-3.05

74.00

Emission Level= Read Level+ Correct Factor

103.02

68.24

2467.400

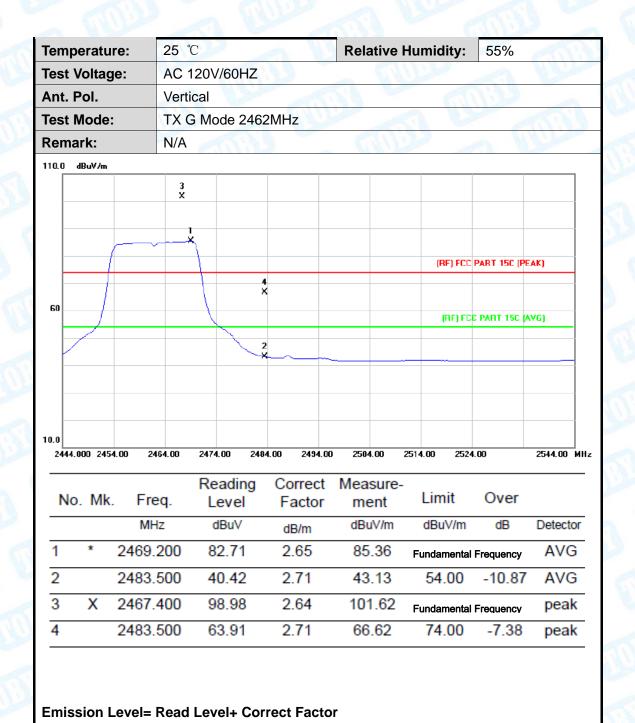
2483.500

peak

peak

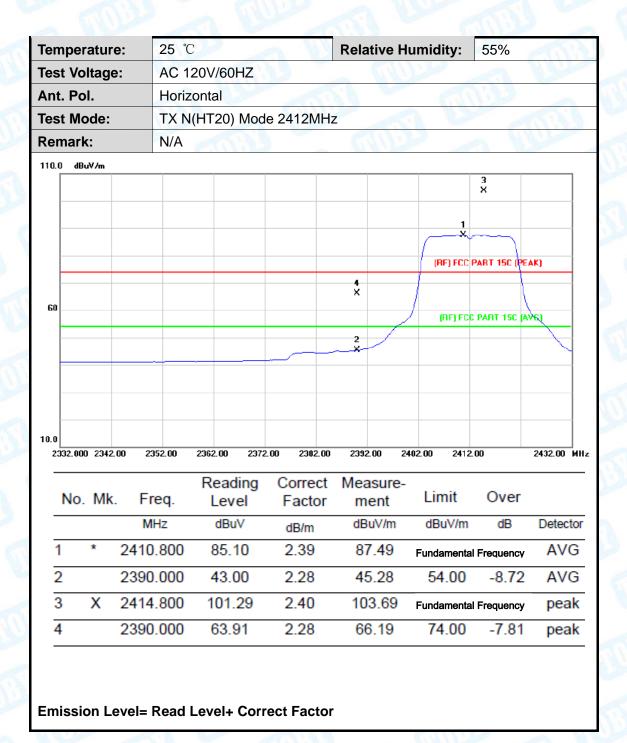


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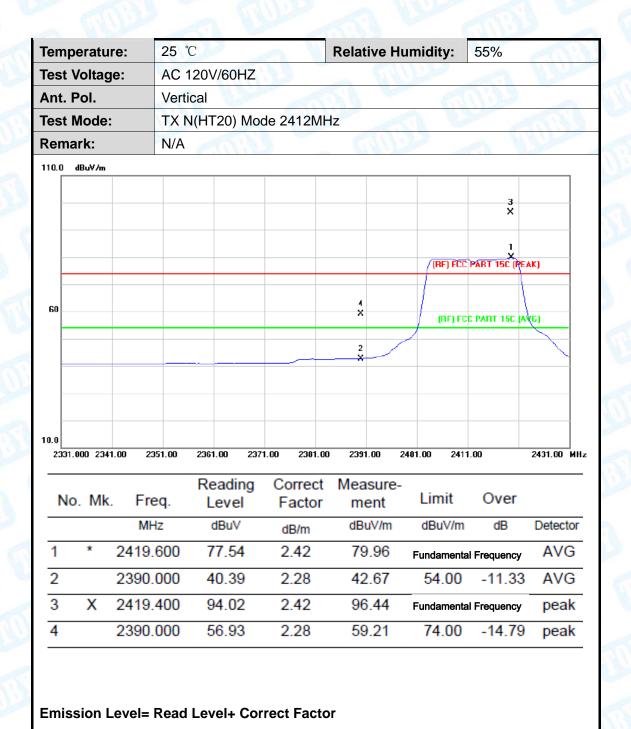


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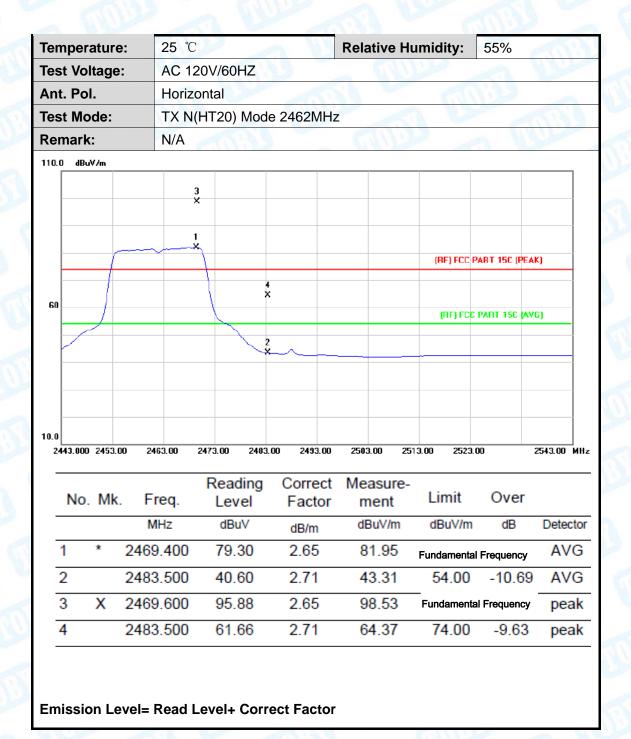


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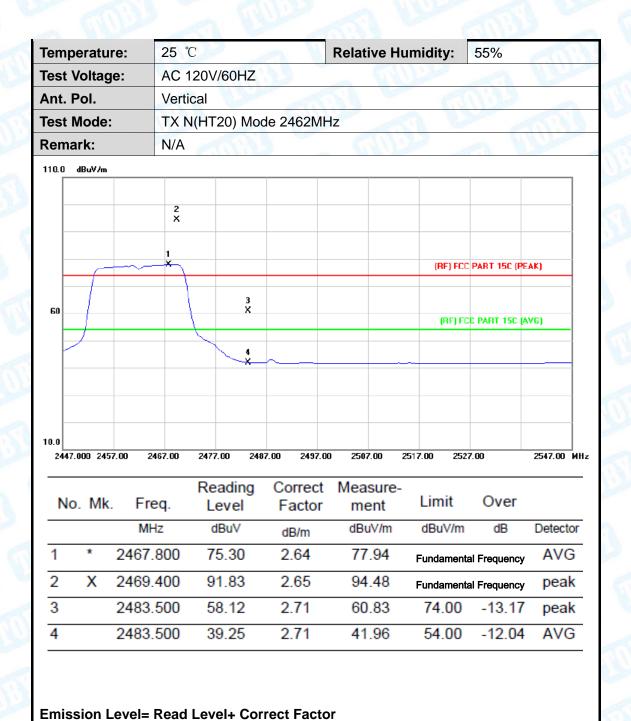


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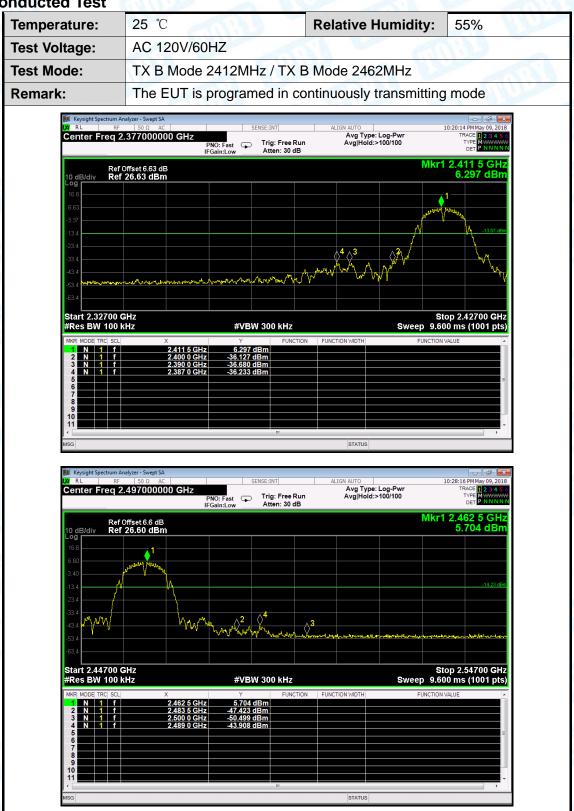






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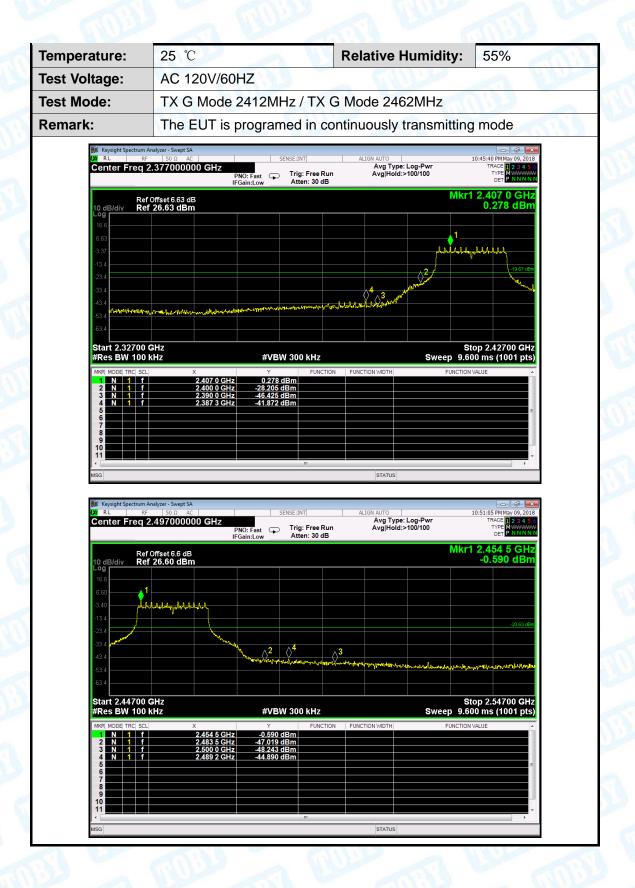
(2) Conducted Test





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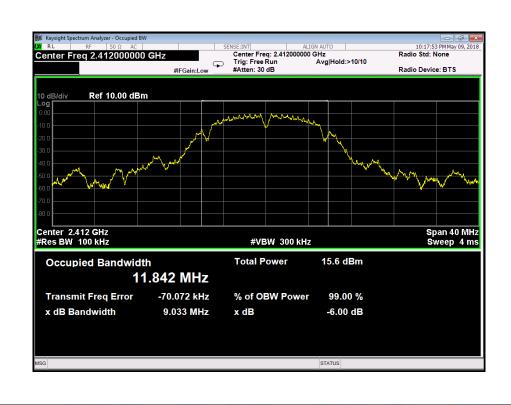


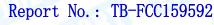
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Attachment D-- Bandwidth Test Data

Temperature:	25 $^{\circ}$ Relative Humidity: 55%						
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Test Mode:	TX 802.11B Mode	X 802.11B Mode					
Channel frequence	y 6dB Bandwidth	99% Bandwidth	Limit				
(MHz)	(MHz)	(MHz)	(MHz)				
2412	9.033	11.842					
2437	8.559	10.801	>=0.5				
2462	9.031	11.179					

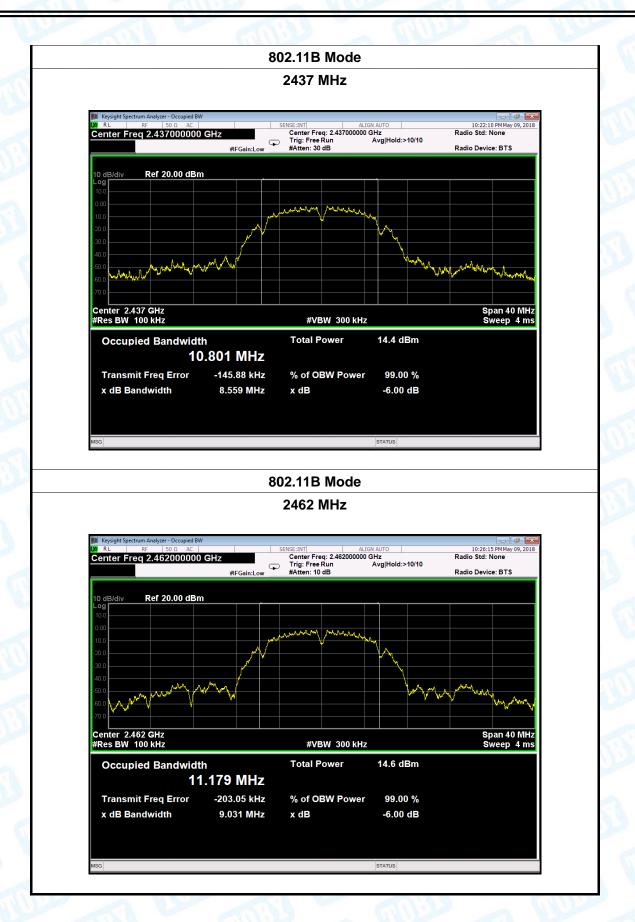
802.11B Mode





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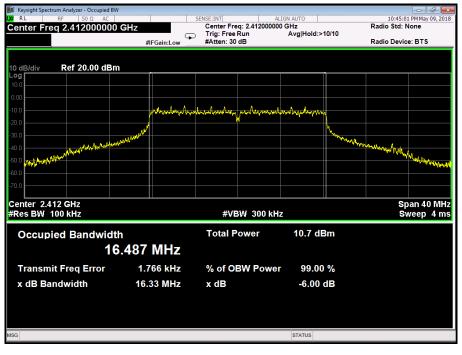






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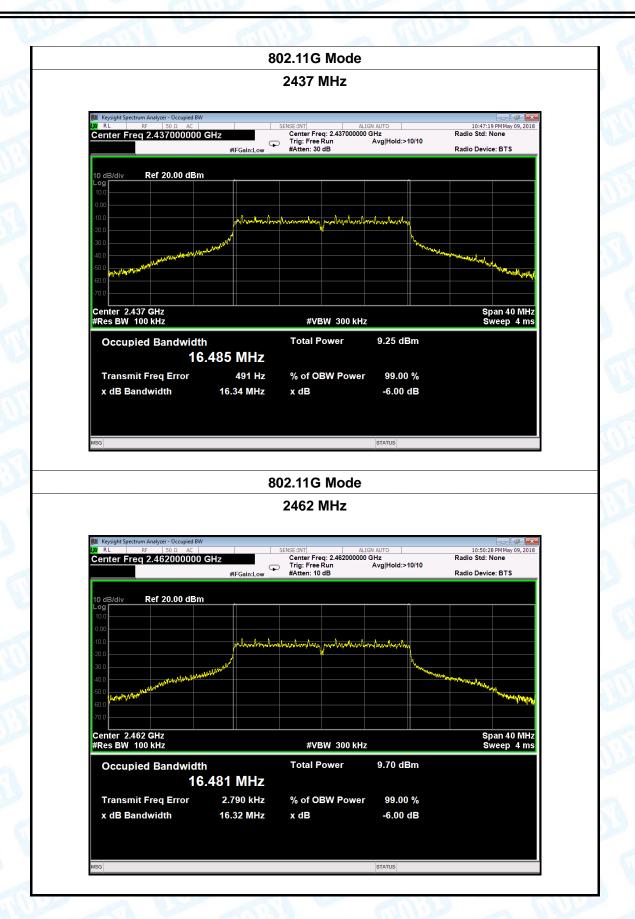
			(100 to 100 to 1				
Temperature:	25 ℃		Relative Humidity:	55%			
Test Voltage:	AC 120	AC 120V/60HZ					
Test Mode:	TX 802	2.11G Mode		11:33			
Channel frequer	су	6dB Bandwidth	99% Bandwidth	Limit			
(MHz)		(MHz)	(MHz)	(MHz)			
2412		16.33	16.487				
2437		16.34	16.485	>=0.5			
2462		16.32	16.481				
	·	802.11G	Mode				
2412 MHz							
III Variable Spectrum Archines Occupied DM							





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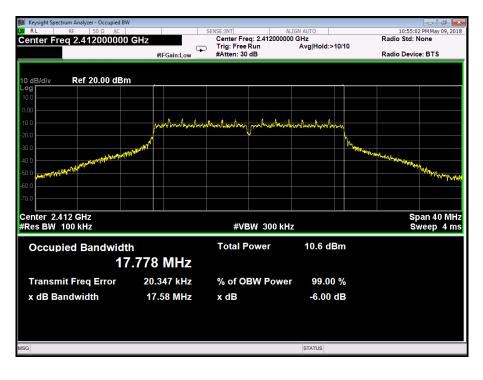






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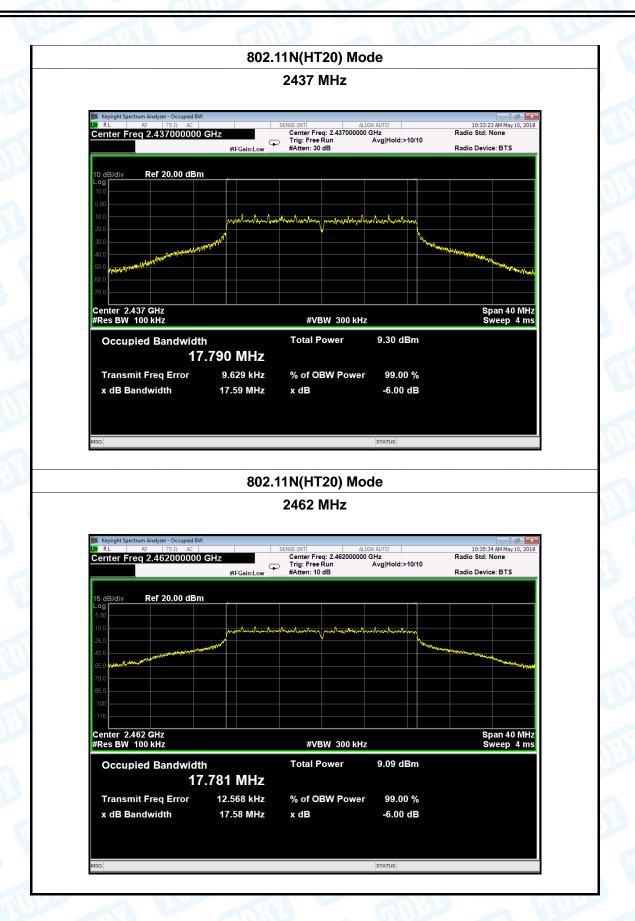
Temperature:	25 ℃		Relative Humidity:	55%	
Test Voltage:	AC	AC 120V/60HZ			
Test Mode:	TX 802.11N(HT20) Mode				
Channel frequency (MHz)		6dB Bandwidth	99% Bandwidth	Limit	
		(MHz)	(MHz)	(MHz)	
2412		17.58	17.778		
2437		17.59	17.790	>=0.5	
2462		17.58	17.791		
		802.11N(HT	20) Mode		
		2412 N	ЛНz		





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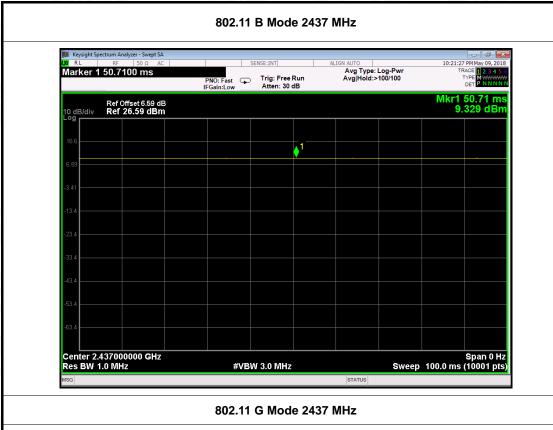
Attachment E-- Peak Output Power Test Data

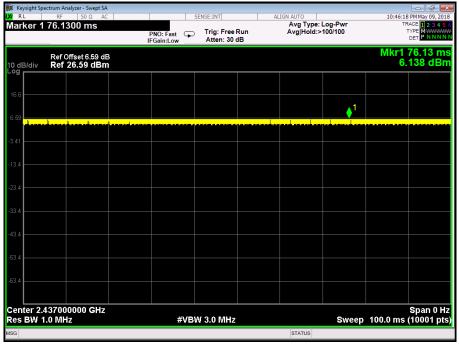
Test Conditions		Continuous transmitting Mode				
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ				
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)			
802.11b	2412	17.52				
	2437	16.05				
	2462	16.74				
802.11g	2412	16.48				
	2437	15.00	30			
	2462	15.58				
802.11n (HT20)	2412	16.35				
	2437	15.08				
	2462	14.94				
	Resu	ılt: PASS				

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



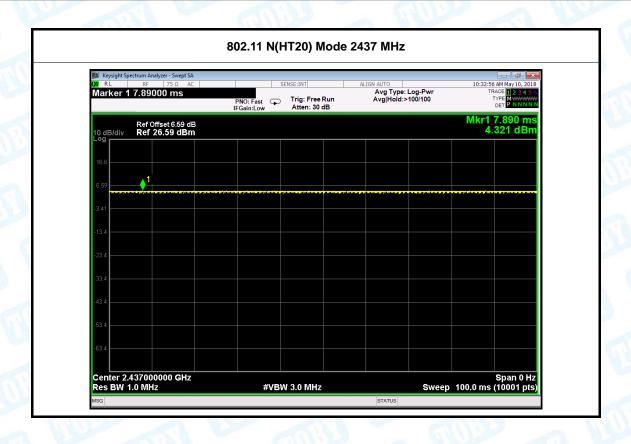
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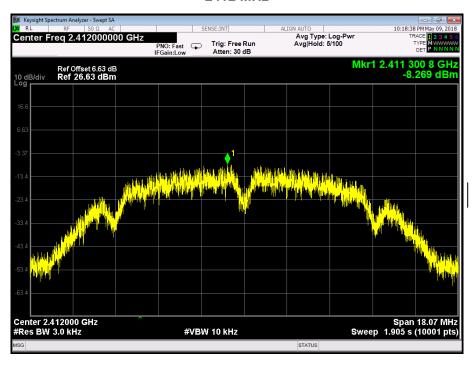


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Attachment F-- Power Spectral Density Test Data

Temperature:	25 ℃		Relative Humidity:	55%	
Test Voltage:	AC 120V/	60HZ	51	THE STATE OF THE S	
Test Mode:	TX 802.11B Mode				
Channel Frequency	uency	Power Density		Limit	
(MHz)		(dBm/3 kHz)		(dBm/3 kHz)	
2412		-8.269			
2437		-9.873		8	
2462		-8.685			
			"		

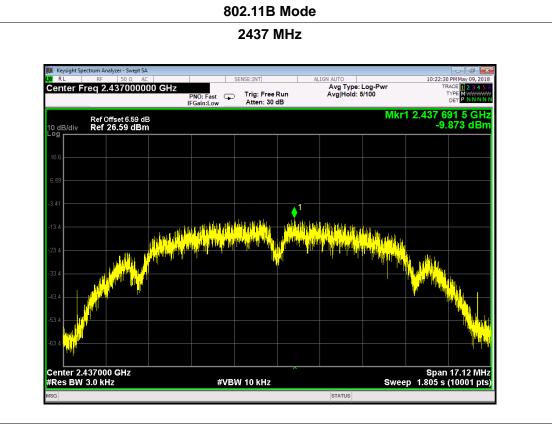
802.11B Mode





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802.11B Mode

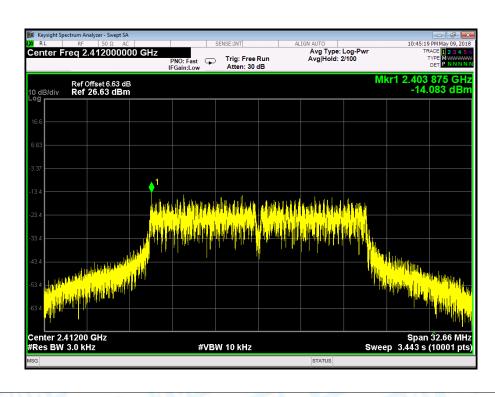




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Temperature:	25 ℃	Temperature:		25 ℃	
Test Voltage:	AC 120V/60HZ				
Test Mode:	TX 802.11G Mode				
Channel Frequency		Power Density		Limit	
(MHz)		(dBm/3 kHz)		(dBm/3 kHz)	
2412		-14.083			
2437	2437			8	
2462		-14.857			
		802 11G Ma	nde		

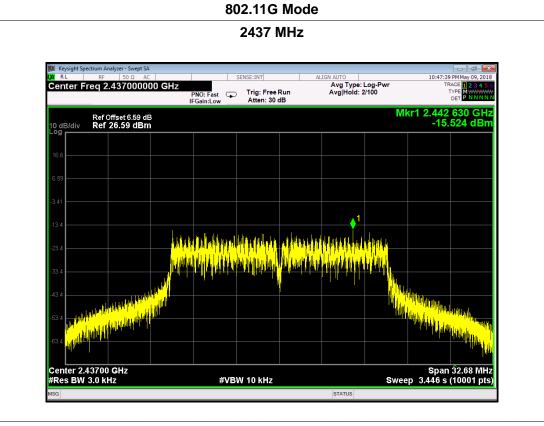
802.11G Mode



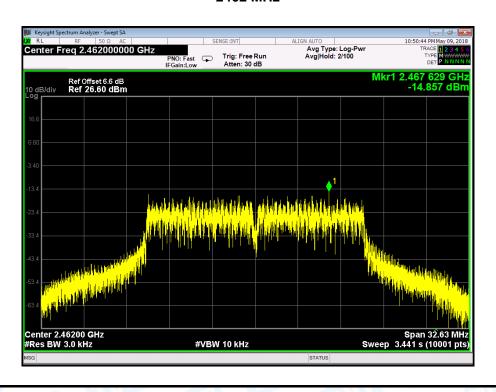


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802.11G Mode

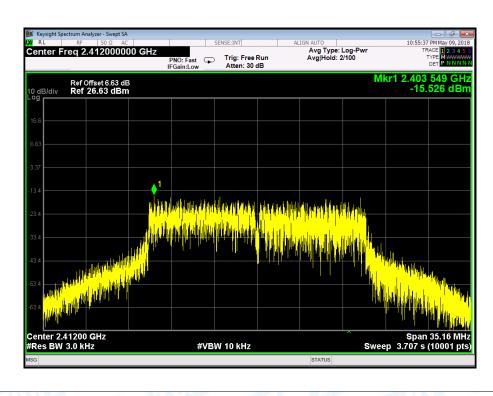




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Temperature:	25 ℃		Temperature:	25 ℃	
Test Voltage:	AC 120V/60HZ				
Test Mode:	TX 802.11N(HT20) Mode				
Channel Frequency		Power Density		Limit	
(MHz)		(dBm/3 kHz) (dBm/3 k		(dBm/3 kHz)	
2412		-15.520	6		
2437		-16.66	7	8	
2462		-16.82	3		
802 11N/HT20) Mode					

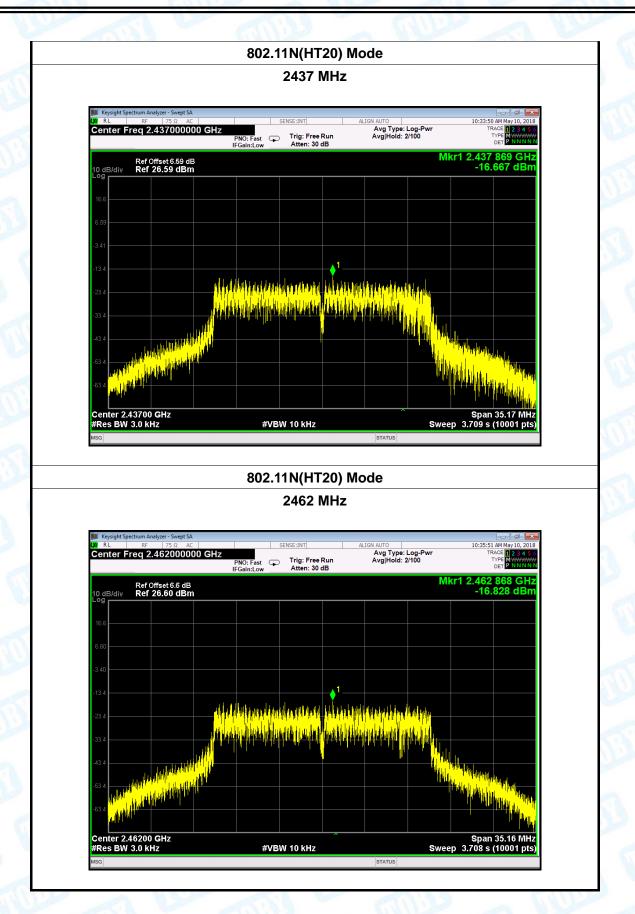
802.11N(HT20) Mode





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----END OF REPORT----