

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC166285

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FCC ID: XMF-MID7015

Original Grant

Report No. : TB-FCC166285

Applicant: Lightcomm Technology Co., Ltd.

Equipment Under Test (EUT)

EUT Name : 7"Tablet

Model No. : 100005206

Series Model No. : MID7015

Brand Name : onn

Receipt Date : 2019-05-21

Test Date : 2019-05-21 to 2019-05-27

Issue Date : 2019-06-10

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

Engineer Supervisor :

Ray Lai

Jason Xu

Ivan Su

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-FCC166285	Rev.01	Initial issue of report	2019-06-10
MODE	130	THE PARTY OF THE P	MUD
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1. General Information about EUT

1.1 Client Information

Applicant : Lightcomm Technology Co., Ltd.			
Address : UNIT 1306 13/F ARION COMMERCIAL CENTRE, 2-12 QUE ROAD WEST, SHEUNG WAN HK			
Manufacturer : Huizhou HengDu Electronics Co., Ltd			
		No.8 Huitai Road, Huinan High-tech Industrial Park, Huiao Avenue, Huizhou, Guangdong, China	

1.2 General Description of EUT (Equipment Under Test)

EUT Name		7"Tablet			
Models No.		100005206, MID7015			
Models No.			ne same PCB layout interior structure and		
Difference	:	electrical circuits, The only difference is model.			
		Operation	802.11b/g/n(HT20): 2412MHz~2462MHz		
		Frequency:	802.11n(HT40): 2422MHz~2452MHz		
	The state of the s	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11b/g/n(HT40):7 channels see note(3)		
Product	•	SUID	802.11b: 18.51dBm		
Description	_		802.11g: 18.91dBm		
		RF Output Power:	802.11n (HT20): 17.47dBm		
			802.11n (HT40): 16.37dBm		
		Antenna Gain:	3.02dBi FPC Antenna		
2	À	DC Voltage Supply from Adapter(TEKA006-0501000UK).			
Power Supply	•	DC Voltage supplied by Li-ion battery.			
		TEKA006-0501000UK			
Power Rating		Input: AC 100-240V 50/60Hz 0.3A(MAX)			
rower Rating	•	Output: DC 5.0V 1A by adapter			
	C	DC 3.7V by 2100mAh Li-ion battery			
Software Version	•	PPR1.180610.011 release-keys			
Hardware Version		LC-MT8167-REV 0.1			
Connecting I/O Port(S)	:	Please refer to the User's Manual			
Remark: One elec	tro	nic material suppliers ar	e different, such as display screen.		

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 v05.



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

(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) CH 03~CH 9 for 802.11n(HT40)

- (4) The Antenna information about the equipment is provided by the applicant.
- 1.3 Block Diagram Showing the Configuration of System Tested

USB Charging Mode

Adapter		EUT		
	Cable 1		•	

	EUT		

1.4 Description of Support Units

Cable Information						
Number Shielded Type Ferrite Core Length Note						
Cable 1	Yes	NO	1.0M	Accessory		

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



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EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test				
Final Test Mode	Description			
Mode 1 USB Charging with TX G Mode Channel (
	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			
Mode 5 TX Mode N(HT40) Mode Channel 03/06/09				
Remark: One electronic mate	erial suppliers are different, such as display screen.			

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) 802.11n (HT40) Mode: MCS 0 (13 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		SP_META.exe	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	18	18	18
IEEE 802.11g OFDM	15	15	15
IEEE 802.11n (HT20)	13	13	13
Test Software Version	THE PARTY OF THE P	SP_META.exe	
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	13	13	13

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})
THU THE	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
De dista d'Essission	Level Accuracy:	.4 60 dB
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Effilssion	30MHz to 1000 MHz	±4.40 db
Radiated Emission	Level Accuracy:	±4.20 dB
Radiated Emission	Above 1000MHz	±4.20 UD



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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						
Standard Section		Test Item	Judgment	Remark		
FCC	IC	rest item	Judgillelit	Keiliaik		
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	6dB Bandwidth	PASS	N/A		
(-)(-)	5.2 (1)					
15.247(b)	RSS 247	Peak Output Power PASS	PASS	N/A		
13.247(0)	5.4 (4)	reak Output Fower	PASS	IN/A		
45.047()	RSS 247	B 0 11B 11	D4 00	11/4		
15.247(e)	5.2 (2)	Power Spectral Density	PASS	N/A		
	RSS 247	and a million	7.00			
15.247(d)	5.5	Band Edge	PASS	N/A		
15.247(d)&	RSS 247	Transmitter Radiated Spurious	DAGG	NI/A		
15.209	5.5	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. 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	on Test			<u>-</u>	
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	Jan. 27, 2019	Jan. 26, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Jan. 27, 2019	Jan. 26, 2020
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.03, 2019	Mar. 02, 2020
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.03, 2019	Mar. 02, 2020
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 14, 2018	Jul.13, 2019
Pre-amplifier	Sonoma	310N	185903	Mar.04, 2019	Mar. 03, 2020
Pre-amplifier	HP	8449B	3008A00849	Mar.03, 2019	Mar. 02, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.03, 2019	Mar. 02, 2020
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. 18, 2018	Jul. 17, 2019
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 18, 2018	Jul. 17, 2019
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 15, 2018	Sep. 14, 2019
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 15, 2018	Sep. 14, 2019
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 15, 2018	Sep. 14, 2019
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 15, 2018	Sep. 14, 2019
DE Day	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 15, 2018	Sep. 14, 2019
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 15, 2018	Sep. 14, 2019
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 15, 2018	Sep. 14, 2019



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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

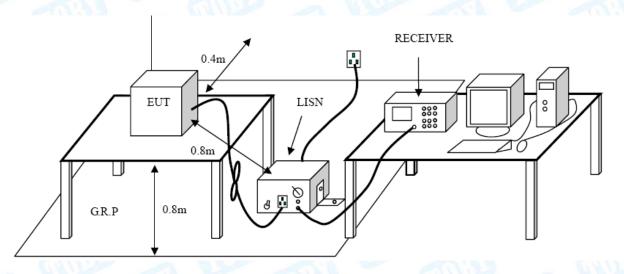
Conducted Emission Test Limit

Eroguanav	Maximum RF Lin	e 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 3	m (dBuV/m)
(MHz)	Peak	Average
Above 1000	74	54

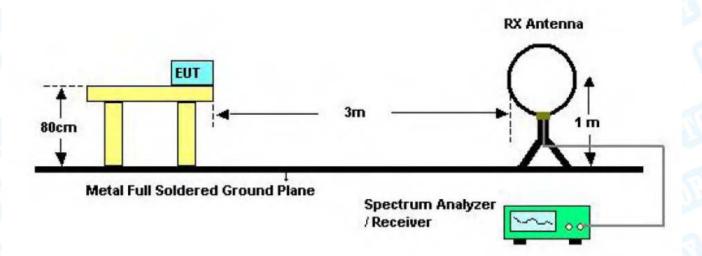
Note:

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

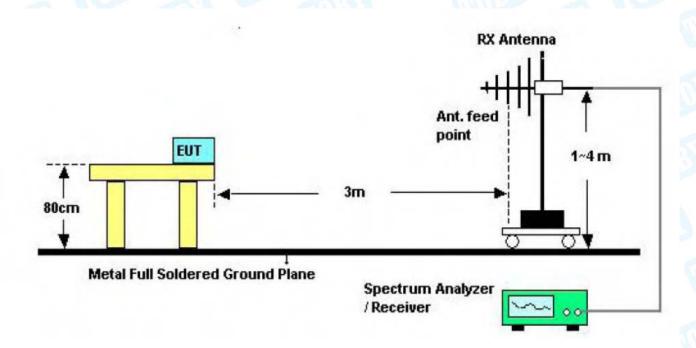


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5.2 Test Setup



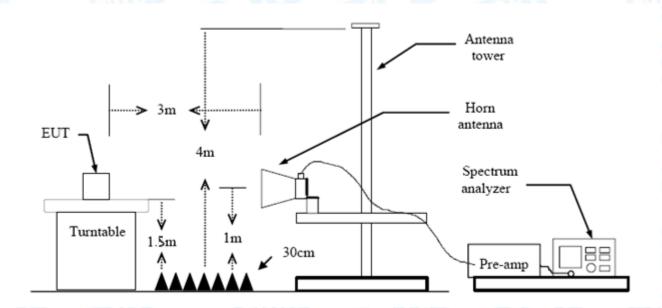
Below 30MHz Test Setup



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) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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.
- (4) 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.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) 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.
- (7) 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.



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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)

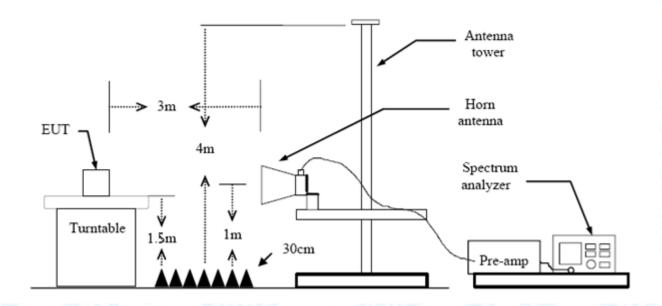
FCC Part 15.209

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

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

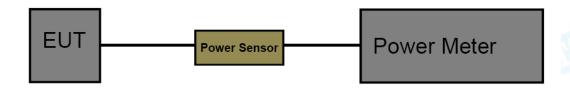
8.1 Test Standard and Limit

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	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 v05. 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(MF						
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 v05.

- (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 3.02dBi, 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 FPC Antenna. It complies with the standard requirement.

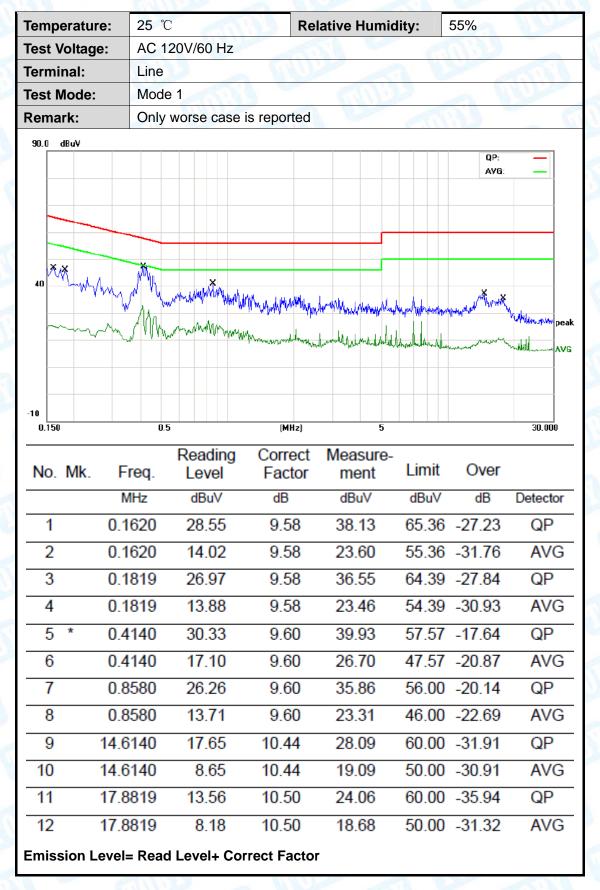
	Antenna Type	
Tips	Permanent attached antenna	ETT.
a Bur	⊠Unique connector antenna	
20	☐Professional installation antenna	MOR



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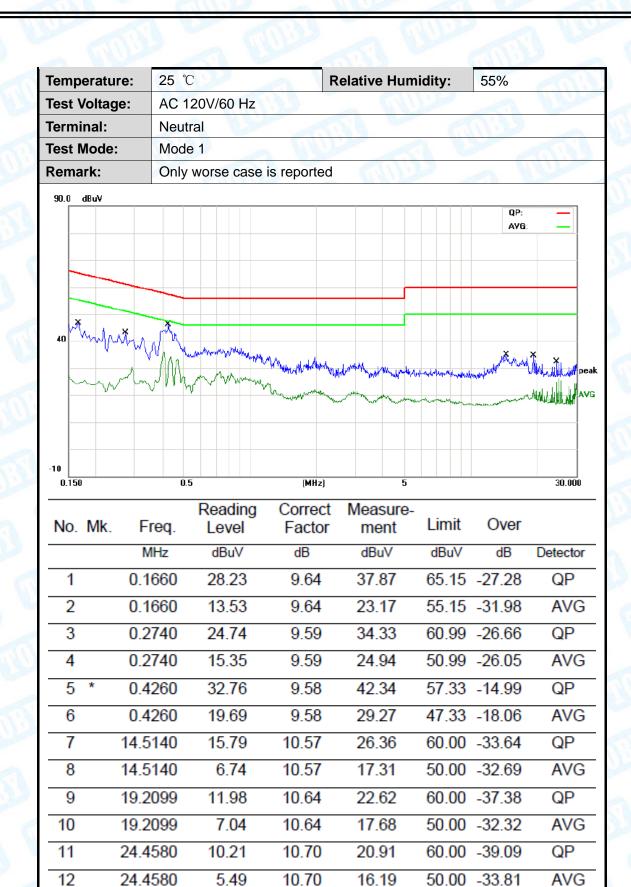


Attachment A-- Conducted Emission Test Data





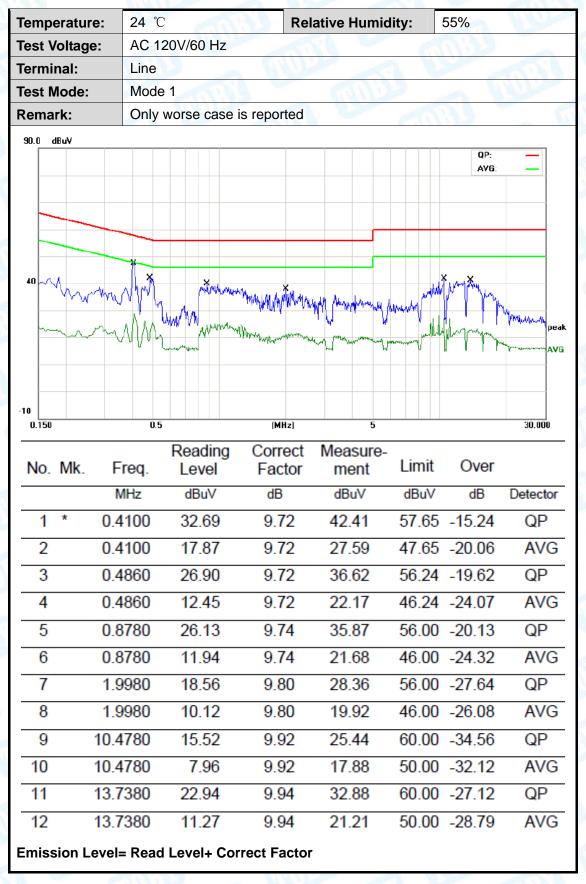
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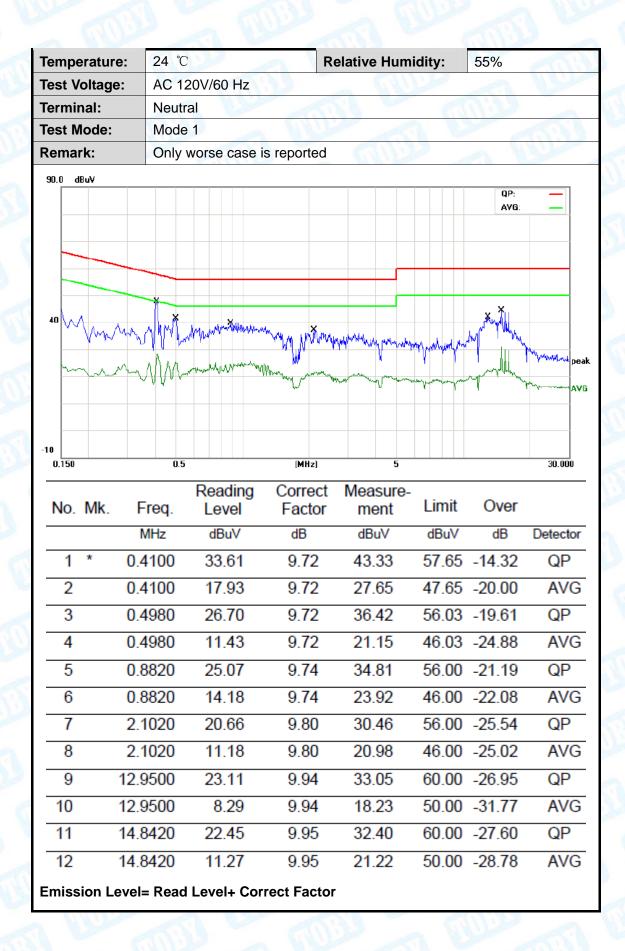
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Material difference sample





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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

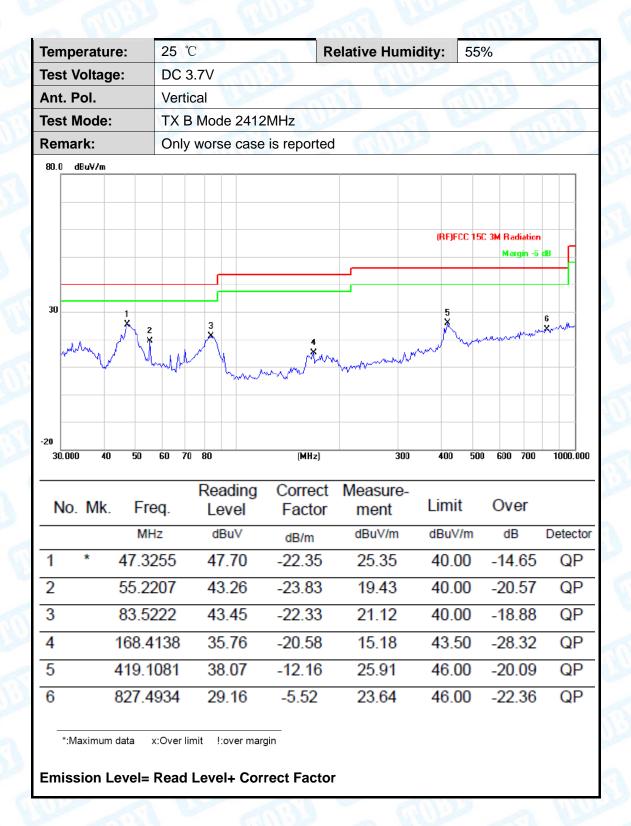
below the permissible value has no need to be reported.

30MHz~1GHz

emperature:	25 ℃		2011112	Relative Hu	midity:	55%	
est Voltage:	DC 3.7\					Call!	
Ant. Pol.	Horizon	tal		MAL		1	
Test Mode:	TXBM	TX B Mode 2412MHz					
Remark:	Only wo	orse case is	reported		6	TO BE	
80.0 dBuV/m							
					(RF)FCC 150	3M Radiation	
						Margin -6	#B
				_			
30							
		3	4 X	5 X		mmm	m
mn, x	2 X	Å	$\mathcal{M}^{\mathcal{M}}$	$u_{u} \sim 10^{-1}$	proposerone	7	
wallow of a	man	Marrow Marrow	M. M.	740			
20 20 30.000 40 50	60 70		(MHz)	300	400 500	000 700	1000 000
30.000 40 30	60 70		(MIZ)	300	400 500	600 700	1000.00
No Mis I		Reading	Correct	Measure-	Limit	Over	
	-req.	Level	Factor	ment			
I	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1 47	.6586	37.52	-22.46	15.06	40.00	-24.94	QP
2 66	7325	37.51	-23.79	13.72	40.00	-26.28	QP
3 * 85	.2980	40.90	-22.24	18.66	40.00	-21.34	QP
	.0738	39.57	-19.82	19.75	43.50	-23.75	QP
	.4284	35.80	-16.80	19.00	46.00	-27.00	QP
6 332	2.5187	36.79	-15.14	21.65	46.00	-24.35	QP
*:Maximum data	x:Over limi	t !:over marg	jin				



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Material difference sample

30MHz~1GHz

Temperature:	26 ℃	File.		Relative Hu	ımidity:	55%	
Test Voltage:	DC 3.7	V	MIL		1 62		1
Ant. Pol.	Horizon	ntal			3	a GA	117
Test Mode:	TXBM	TX B Mode 2412MHz					
Remark:	Only wo	orse case i	s reported	1	Alle		4
80.0 dBuV/m							
					(RF)FCC 1	5C 3M Radiation Margin -5	
30		2	3	4 X		6 X	200
Mn N		Ň	X		Lummy	my hours	
n. Mms. C	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	/ WAY	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	May MA			
	۷ .						
20							
30.000 40 50	60 70		(MHz)	300	400 5	600 600 700	1000.00
		Reading	Correct	Measure-	Limit	0	
	req.	Level	Factor	ment	Limit	Over	
M	1Hz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1 47.6	6584	41.52	-22.46	19.06	40.00	-20.94	QP
2 * 85.2	2980	42.90	-22.24	20.66	40.00	-19.34	QP
3 191.	0738	40.57	-19.82	20.75	43.50	-22.75	QP
	4284	37.80	-16.80	21.00	46.00	-25.00	QP
4 269.		00.70	-15.14	24.65	46.00	-21.35	QP
	5187	39.79					
5 332.	5187 8437	39.79	-8.69	25.67	46.00	-20.33	QP



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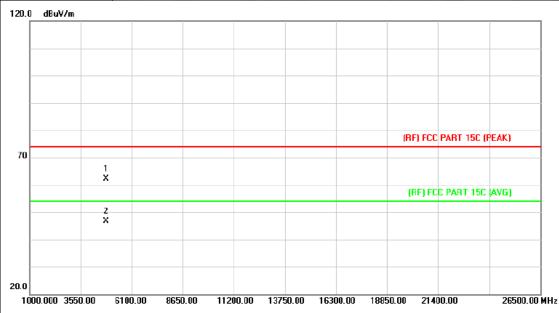
Temperature:	26 ℃	R	elative Humi	dity: 55	5%				
Test Voltage:	DC 3.7V	130							
Ant. Pol.	Vertical	Vertical							
Test Mode:	TX B Mode 2412MHz								
Remark:	Only worse cas	e is reported	611128	2	a 113	No.			
80.0 dBuV/m									
				(RF)FCC 1	5C 3M Radiation Margin -5				
					maigin -o				
30 2				G					
1 1	3 4 X		5	Mun	and the same	Muse			
and the first th		Some	WALLEY OF THE PARTY OF THE PART	www.					
1	Why www	Mr-My	W						
30.000 40 50	CO 70 00	(6411-)	200	400 5	00 00 700	1000.0			
30.000 40 50	60 70 80	(MHz)	300	400 50	00 600 700	1000.0			
	Reading		Measure-	1 : :4	0				
No. Mk. Fr	eq. Level	Factor	ment	Limit	Over				
MI	Hz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detect			
1 34.2	760 37.47	-16.22	21.25	40.00	-18.75	QP			
2 * 47.3	253 45.70	-22.35	23.35	40.00	-16.65	QP			
3 55.2	207 43.26	-23.83	19.43	40.00	-20.57	QP			
4 83.5	221 43.45	-22.33	21.12	40.00	-18.88	QP			
5 279.0	0436 36.45	-16.62	19.83	46.00	-26.17	QP			
		12.16	23.91	46.00	-22.09	QP			
6 419.1	1080 36.07	-12.16	23.91	40.00	-22.03	(Q)			



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Above 1GHz

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2412MHz						
Remark:	No report for the emission which more than 10 dB below the prescribed						
	limit.	3					

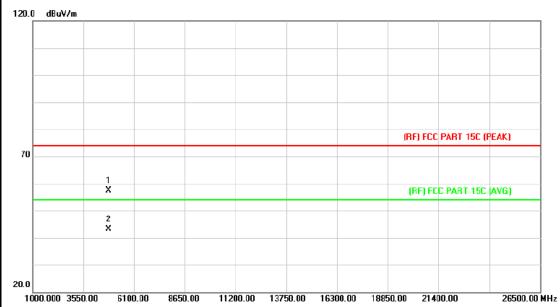


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.852	47.52	14.55	62.07	74.00	-11.93	peak
2	*	4825.000	32.15	14.55	46.70	54.00	-7.30	AVG



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Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V							
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.							
120.0 dBuV/m								

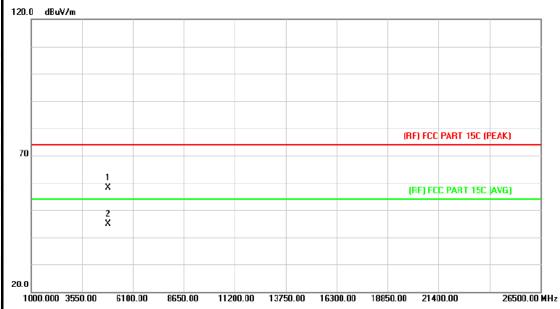


No.	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.832	42.80	14.55	57.35	74.00	-16.65	peak
2	*	4825.000	28.68	14.55	43.23	54.00	-10.77	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	Million					
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2437MHz	TX B Mode 2437MHz					
Remark: No report for the emission which more than 10 dB below the prescribed limit.							
120.0 dBuV/m							

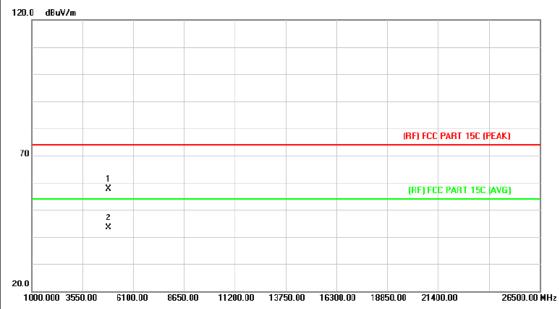


No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.000	43.36	14.85	58.21	74.00	-15.79	peak
2	*	4873.000	30.13	14.85	44.98	54.00	-9.02	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	Million	1				
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2437MHz	TX B Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
120.0 40.3/4-							

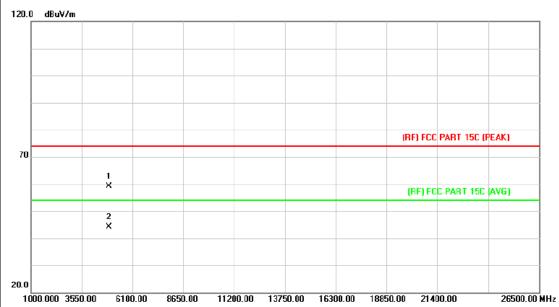


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.228	42.70	14.86	57.56	74.00	-16.44	peak
2	*	4874.896	28.61	14.86	43.47	54.00	-10.53	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	Militia	13				
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2462MHz						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
400.0 10.111							

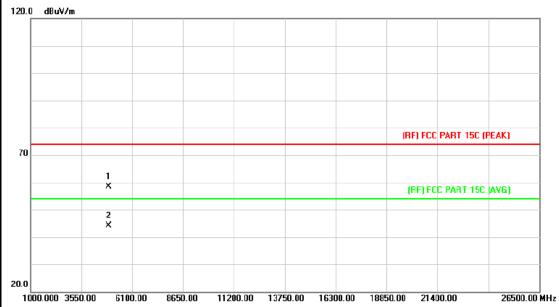


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.612	43.97	15.17	59.14	74.00	-14.86	peak
2	*	4924.684	28.91	15.17	44.08	54.00	-9.92	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2462M	TX B Mode 2462MHz					
Remark: No report for the emission which more than 10 dB below the prescribed limit.							
120.0 dBuV/m							

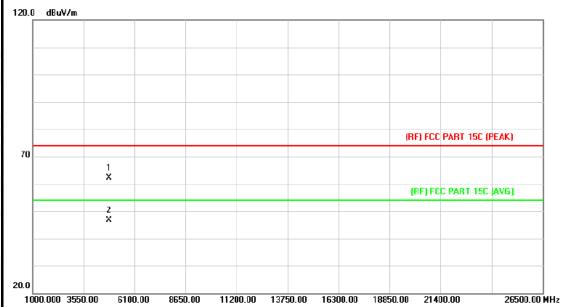


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.584	43.13	15.17	58.30	74.00	-15.70	peak
2	*	4924.368	28.92	15.17	44.09	54.00	-9.91	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	The same of the sa	- W				
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2412MHz	TX G Mode 2412MHz					
Remark:	No report for the emis	No report for the emission which more than 10 dB below the prescribed limit.					
	•						

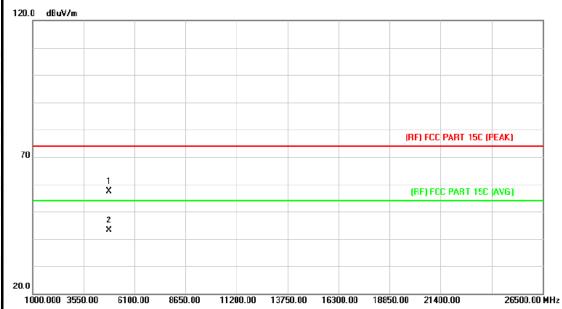


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.416	47.68	14.55	62.23	74.00	-11.77	peak
2	*	4825.000	32.11	14.55	46.66	54.00	-7.34	AVG



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V	Military				
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2412MHz	TX G Mode 2412MHz				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

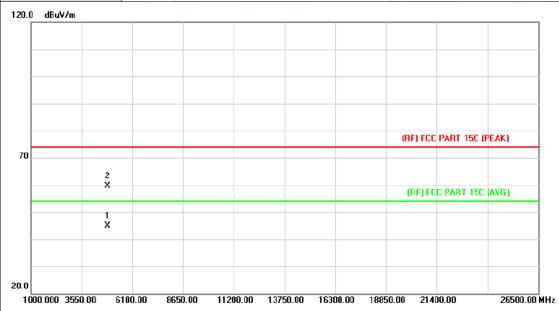


No.	Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.472	42.78	14.55	57.33	74.00	-16.67	peak
2	*	4824.896	28.65	14.55	43.20	54.00	-10.80	AVG



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

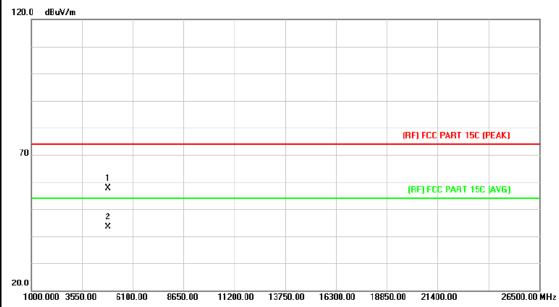


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.000	30.09	14.85	44.94	54.00	-9.06	AVG
2		4873.372	44.87	14.86	59.73	74.00	-14.27	peak



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	Military					
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2437MHz	TX G Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

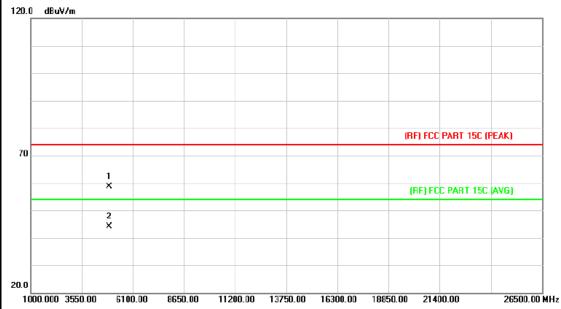


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.484	42.89	14.86	57.75	74.00	-16.25	peak
2	*	4874.788	28.59	14.86	43.45	54.00	-10.55	AVG



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V	Militia				
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2462MHz	TX G Mode 2462MHz				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
400.6 10.141						

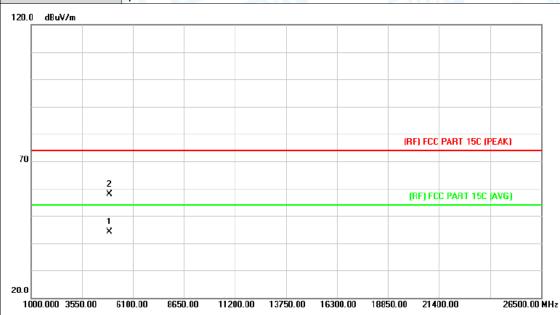


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.796	43.35	15.17	58.52	74.00	-15.48	peak
2	*	4923.104	28.88	15.17	44.05	54.00	-9.95	AVG



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١	Temperature:	25 ℃	Relative Humidity:	55%			
	Test Voltage:	DC 3.7V	DC 3.7V				
	Ant. Pol.	Vertical					
	Test Mode:	TX G Mode 2462MHz	TX G Mode 2462MHz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							

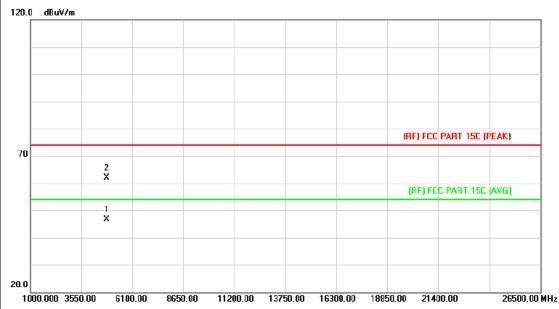


١	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4923.420	28.91	15.17	44.08	54.00	-9.92	AVG
2			4924.548	42.71	15.17	57.88	74.00	-16.12	peak



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	OC 3.7V					
Ant. Pol.	Pol. Horizontal						
Test Mode:	TX N(HT20) Mode 2412MHz						
Remark: No report for the emission which more than 10 dB below the prescribed limit.							
'							

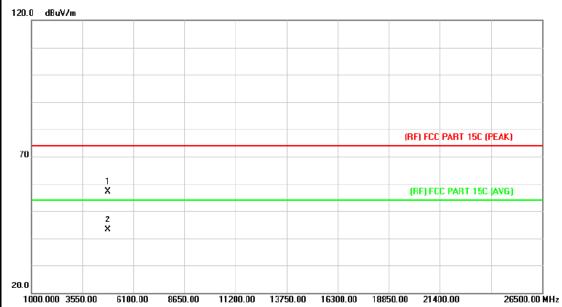


No.	MI	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4825.000	32.09	14.55	46.64	54.00	-7.36	AVG
2		4824.496	47.43	14.55	61.98	74.00	-12.02	peak



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V	OC 3.7V				
Ant. Pol.	/ertical					
Test Mode:	TX N(HT20) Mode 2412M	TX N(HT20) Mode 2412MHz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

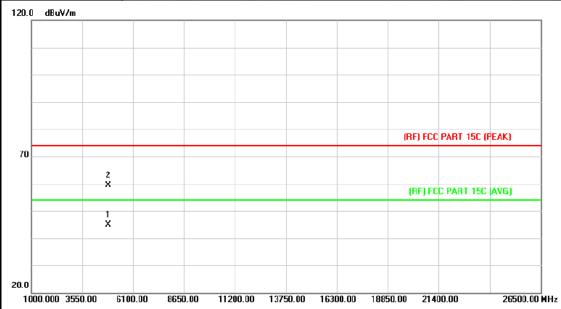


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.276	42.55	14.55	57.10	74.00	-16.90	peak
2	*	4825.000	28.68	14.55	43.23	54.00	-10.77	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	OC 3.7V					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2437M	TX N(HT20) Mode 2437MHz					
Remark:	Mark: No report for the emission which more than 10 dB below the prescribed limit.						
400 0 ID VI	procentific.						



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.000	30.08	14.85	44.93	54.00	-9.07	AVG
2		4874.184	44.51	14.86	59.37	74.00	-14.63	peak



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-						
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V	OC 3.7V				
Ant. Pol.	Vertical Vertical					
Test Mode:	TX N(HT20) Mode 2437	TX N(HT20) Mode 2437MHz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

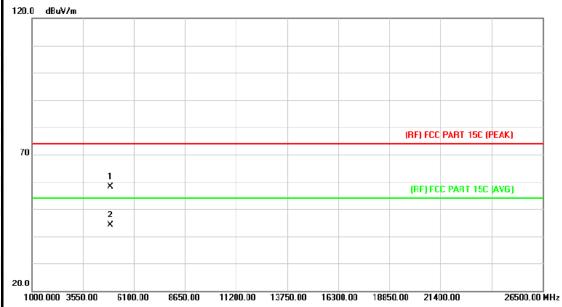


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.832	42.31	14.86	57.17	74.00	-16.83	peak
2	*	4875.000	28.61	14.86	43.47	54.00	-10.53	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	OC 3.7V					
Ant. Pol. Horizontal							
Test Mode:	: TX N(HT20) Mode 2462MHz						
Remark: No report for the emission which more than 10 dB below the prescribed limit.							

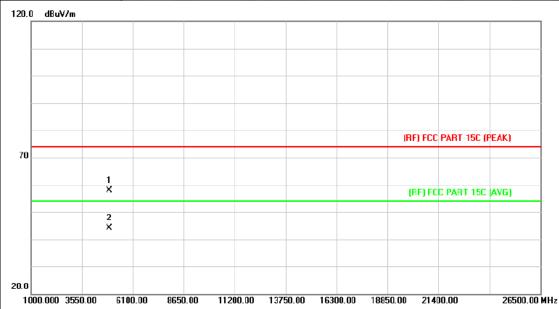


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.680	42.96	15.17	58.13	74.00	-15.87	peak
2	*	4924.896	28.90	15.18	44.08	54.00	-9.92	AVG



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Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V	Million			
Ant. Pol.	Vertical		100		
Test Mode:	TX N(HT20) Mode 2462MHz				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.				
400.0 10.111					

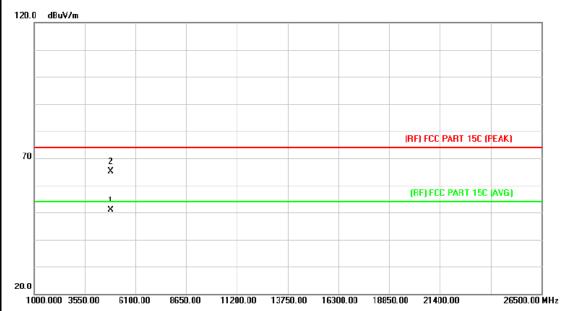


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.484	42.77	15.17	57.94	74.00	-16.06	peak
2	*	4923.844	28.91	15.17	44.08	54.00	-9.92	AVG



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Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V	Million			
Ant. Pol.	Horizontal	31 6	Tib		
Test Mode:	TX N(HT40) Mode 2422MHz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.					



No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4844.052	36.20	14.68	50.88	54.00	-3.12	AVG
2		4844.168	50.52	14.68	65.20	74.00	-8.80	peak



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	William .	1				
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2422MHz						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

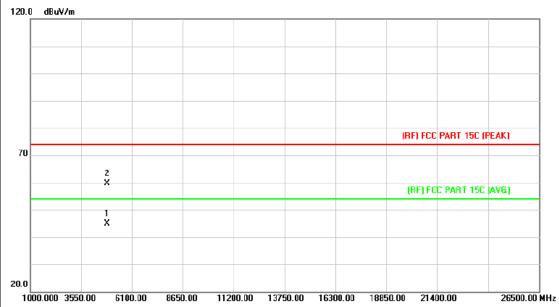


No	o. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.000	28.83	14.67	43.50	54.00	-10.50	AVG
2		4844.240	43.62	14.68	58.30	74.00	-15.70	peak



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į	Temperature:	25 ℃	Relative Humidity:	55%			
Ì	Test Voltage:	DC 3.7V	Million				
	Ant. Pol.	Horizontal					
	Test Mode:	TX N(HT40) 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	*	4873.000	30.12	14.85	44.97	54.00	-9.03	AVG
2		4873.184	44.70	14.85	59.55	74.00	-14.45	peak



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V	Militar				
Ant. Pol.	Vertical	01 - 0				
Test Mode:	TX N(HT40) Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
	1 -					

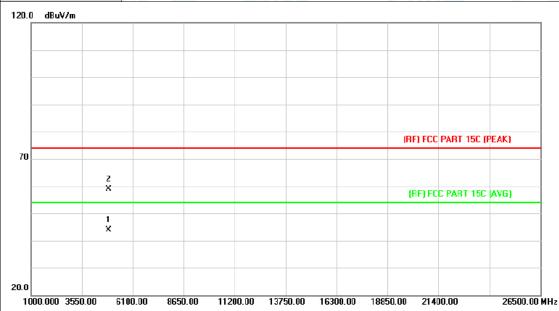


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.816	42.84	14.86	57.70	74.00	-16.30	peak
2	*	4875.000	28.62	14.86	43.48	54.00	-10.52	AVG



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Test Voltage: DC 3.7V Ant. Pol. Horizontal Test Mode: TX N(HT40) Mode 2452MHz	5%	Temperature:				
	3 Min	Test Voltage:				
Test Mode: TX N(HT40) Mode 2452MHz	Horizontal					
	TX N(HT40) Mode 2452MHz					
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

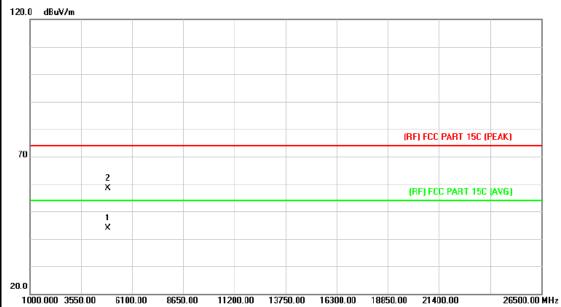


No	. Mk	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.104	28.87	15.04	43.91	54.00	-10.09	AVG
2		4904.864	43.94	15.05	58.99	74.00	-15.01	peak



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-			
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	Million	
Ant. Pol.	Vertical		1133
Test Mode:	TX N(HT40) Mode 2452MH	z	
Remark:	No report for the emission v prescribed limit.	which more than 10 dB	below the
400.0 10.141			



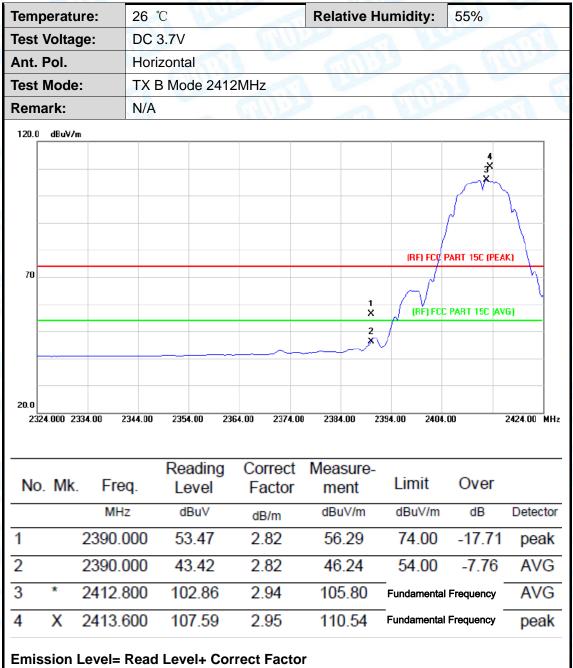
No	o. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.844	28.91	15.04	43.95	54.00	-10.05	AVG
2		4904.492	43.33	15.05	58.38	74.00	-15.62	peak



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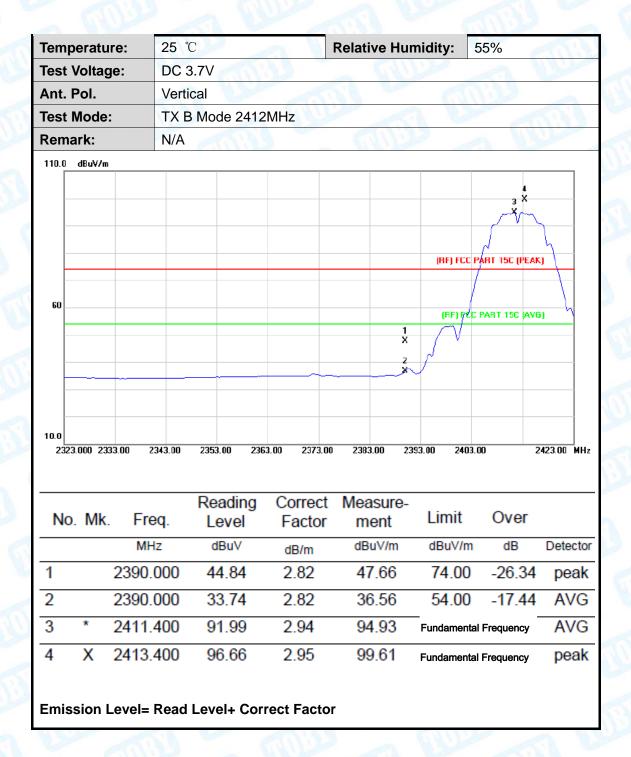
Attachment C-- Restricted Bands Requirement Test Data

(1) Radiation Test



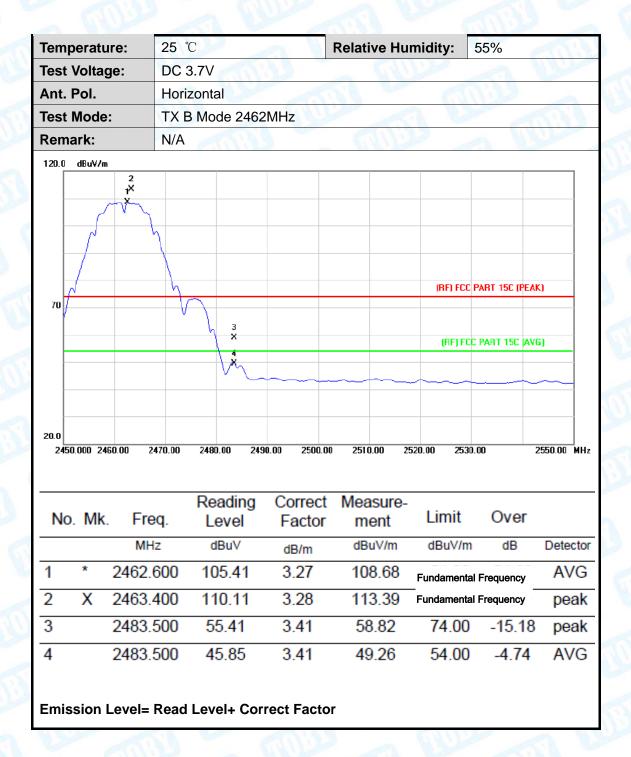


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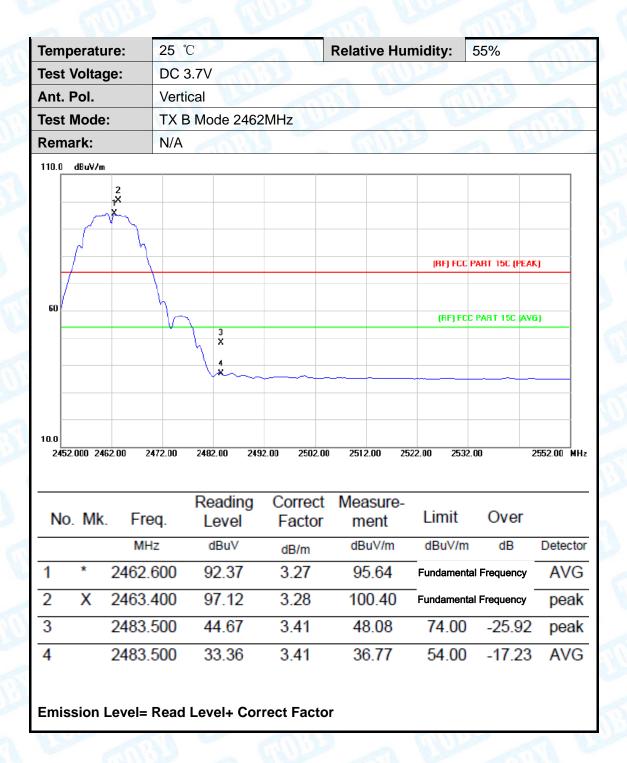


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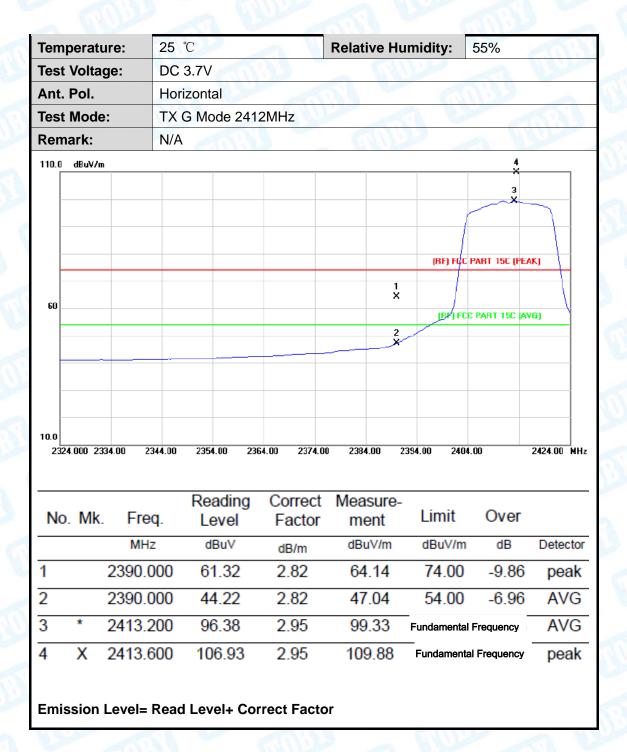


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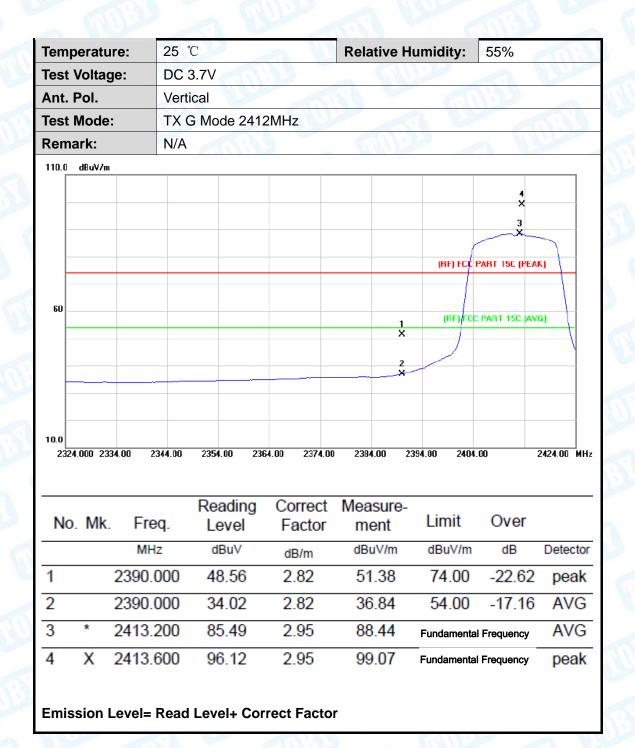


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	Temperature:	25 ℃	Relative Humidity:	55%
}	Test Voltage:	DC 3.7V		
	Ant. Pol.	Horizontal		
	Test Mode:	TX G Mode 2462MHz		
d	Remark:	N/A	MIDE	a Millian



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.000	98.19	3.26	101.45	 Fundamental	Frequency	AVG
2	Χ	2463.400	108.74	3.28	112.02	Fundamental	Frequency	peak
3		2483.500	64.36	3.41	67.77	74.00	-6.23	peak
4		2483.500	48.21	3.41	51.62	54.00	-2.38	AVG

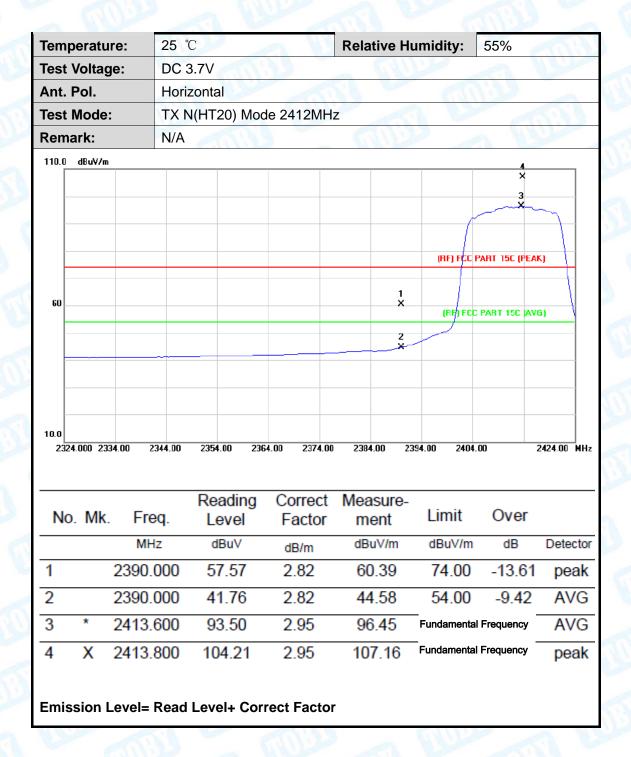


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reir	nperatu	ıre:	25	$^{\circ}$ C			a		Rel	lative	Hu	midi	ty:	55	5%	60	
Tes	t Volta	ge:	DC	3.7V	6	111	13			1					À	100	
Ant	. Pol.		Vert	tical	1			K					11				ħ,
Tes	t Mode	:	TX	G Mc	ode 2	2462	MHz						63		1		
Ren	nark:		N/A						. (A	1		
110.0	0 dBuV/n	1															_
		2 X															
		1															
		×	1														1
	+-		+									(BI) FCC	PART	15C (PE	AKJ	+
60	ļ		1		3												
			$+\!\!\!+$		×			_				(F	iF) FC	C PART	F 15C (4	WG)	-
					4												
					×												
																	+
																	+
10.0		104.00	474.00	0.40	1.00	0404		0504.6		11.00	0504	20	oro.			0554.00	<u> </u>
24	451.000 24	161.UU 2	471.00	248	1.00	249 1	.00	2501.0	U 25	11.00	2521	.00	2531	1.00		2551.00	MH
N	o. Mk	. Fre			adin			rrect ictor		asure		Lim	it	0	ver		
	U. IVIK	. FIE	ч.	L	evel		Fa	Clor		ent							
- ' '															dB	Dete	cto
		МН			lBuV			/m		BuV/m		dBu	V/III		-		
1	*	MH 2460.8			IBu∨ 5.75		dB			9.01					uency	A۱	/G
	* X		800	8		;		26	8		F	undar	menta	al Freq			
1		2460.8	800 400	8:	5.75)	3.2	26 28	9	9.01	F	undar	menta	al Freq al Freq	uency	pe	ak

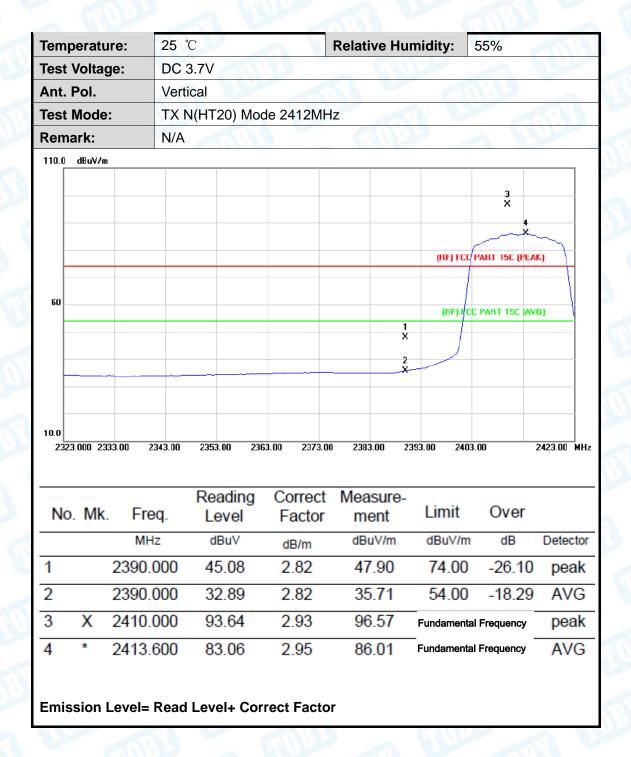


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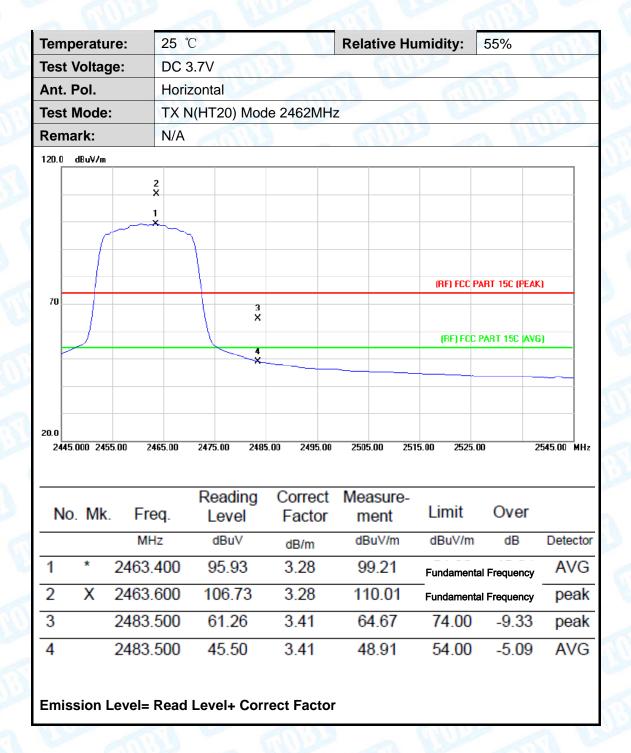


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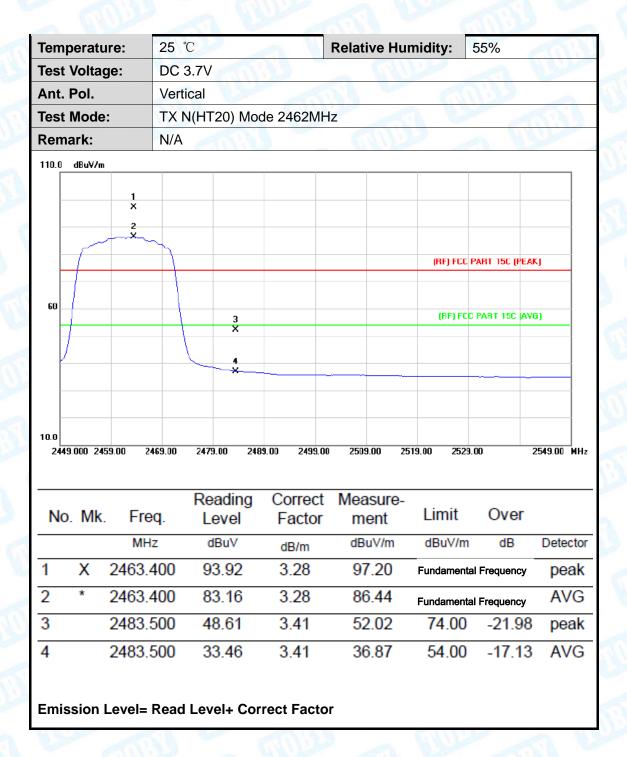


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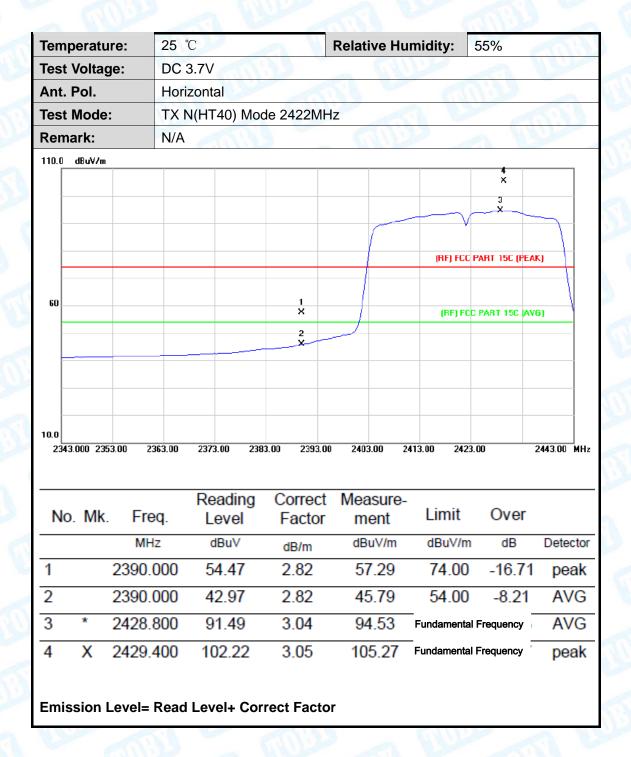


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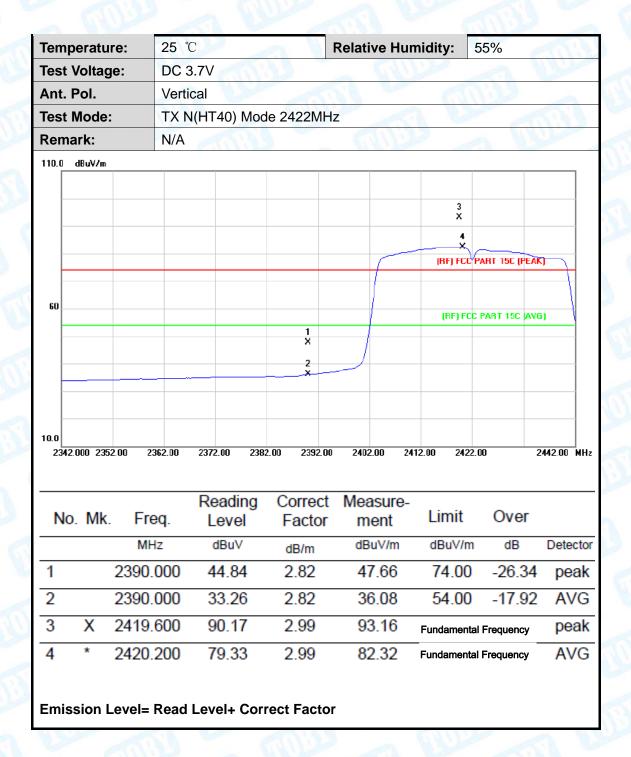


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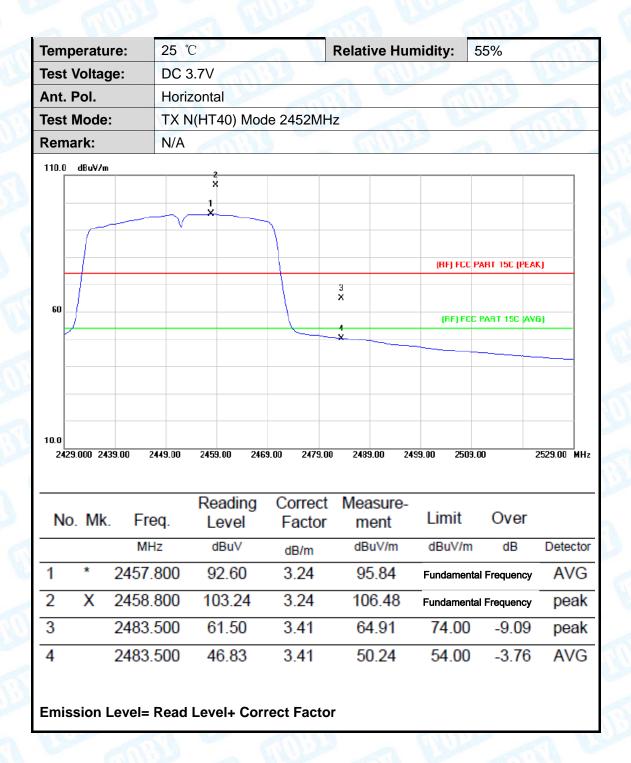


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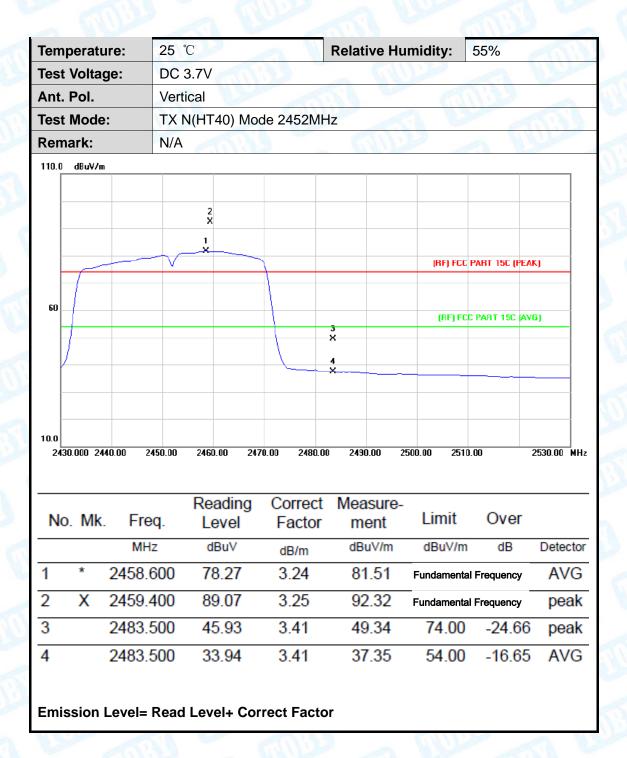


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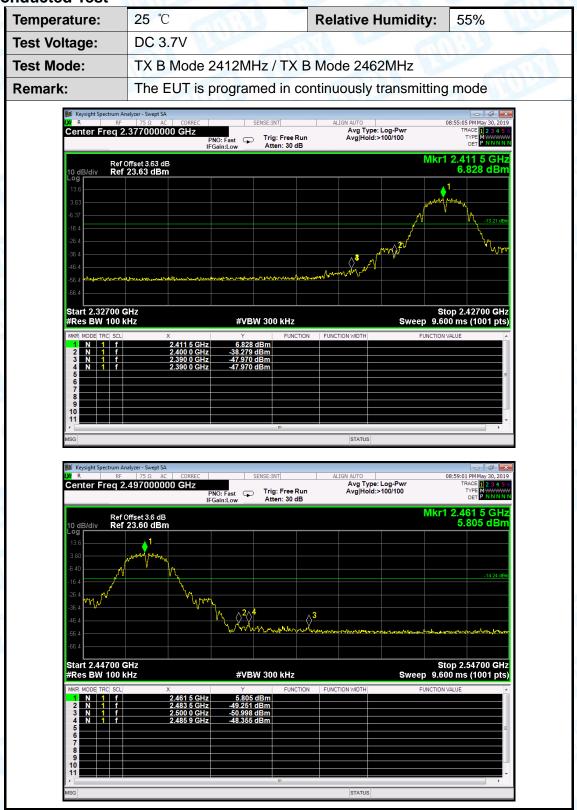
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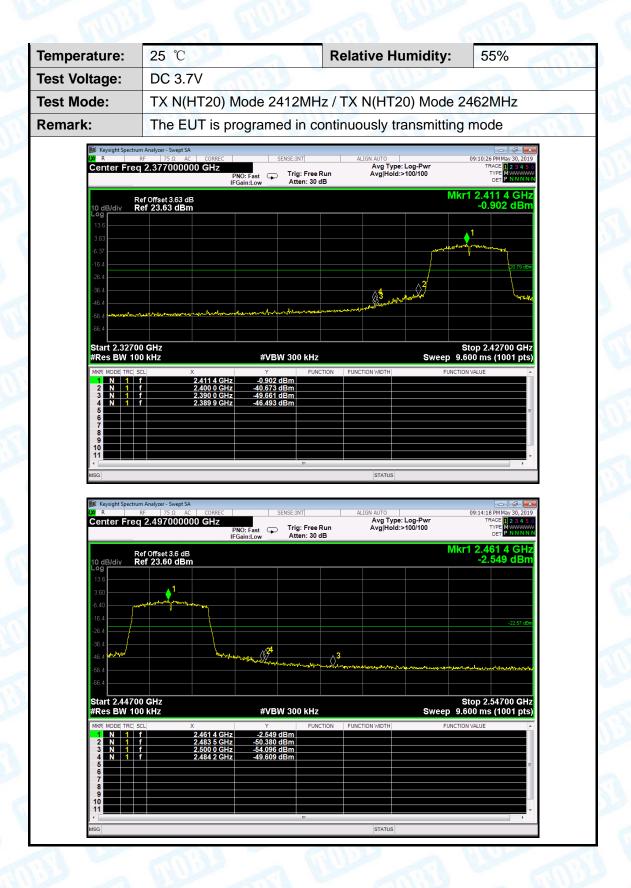
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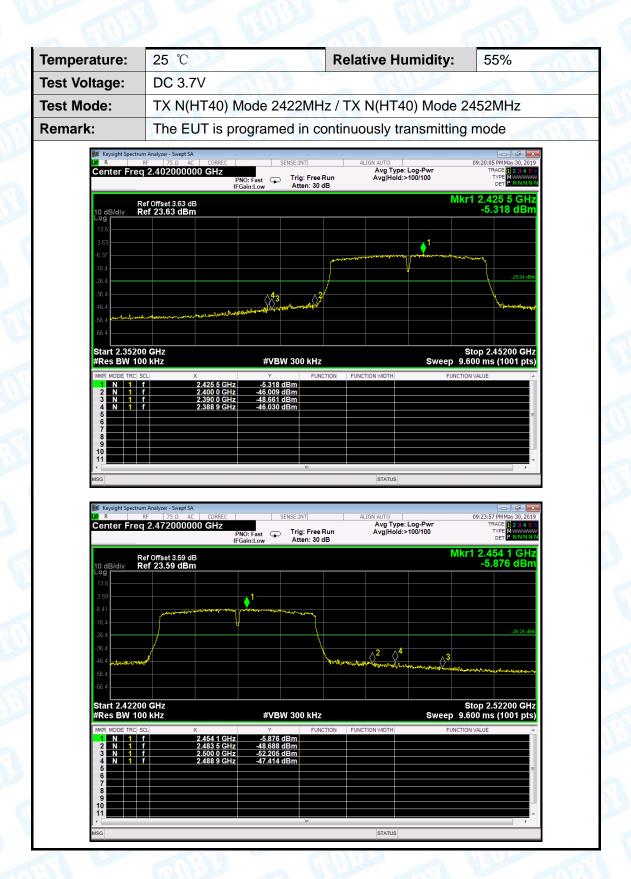








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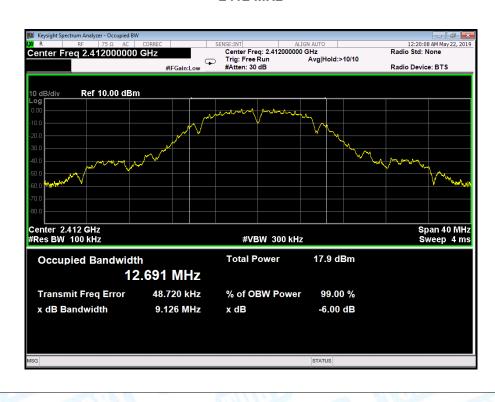


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Attachment D-- Bandwidth Test Data

Temper	Temperature: 25 °C		Relative Humidity:	55%			
Test Vo	ltage:	OC 3.7V		133			
Test Mo	de:	TX 802.11B Mode					
Channe	I frequency	6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
	2412	9.126	12.691				
2437		9.126	12.912	>=0.5			
	2462	9.245	12.995				

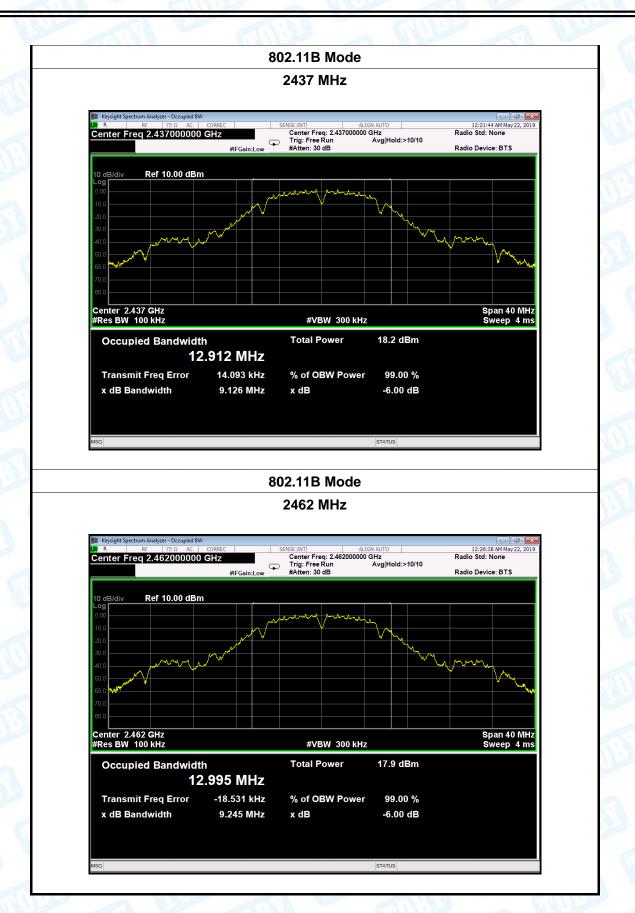
802.11B Mode





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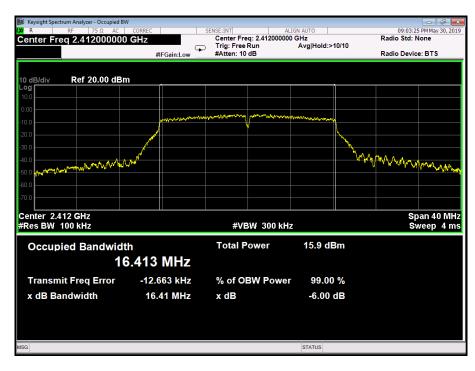
Page:





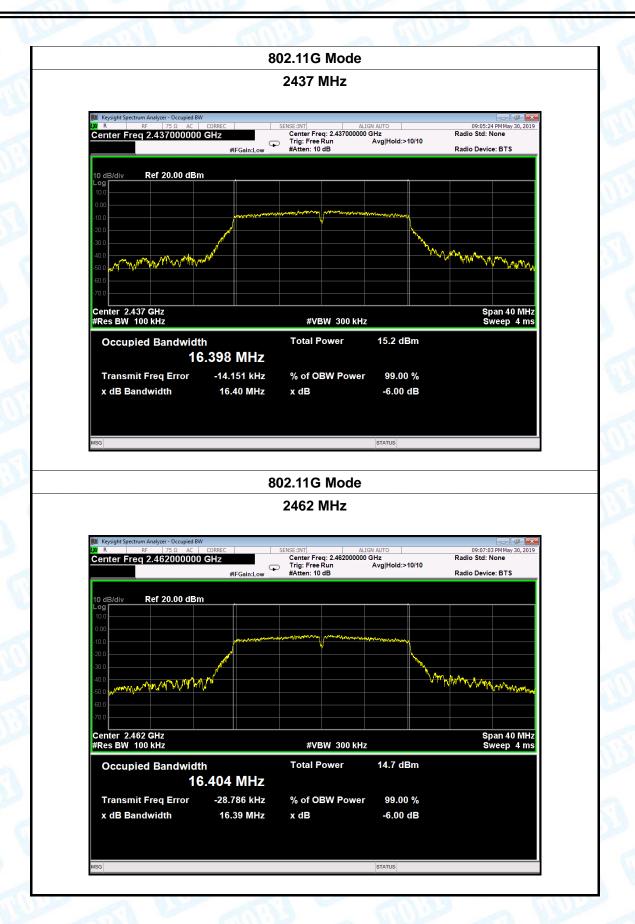
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Temperature: 25 °C			Relative Humidity:	55%	
Test Voltage: DC 3.7V					
Test Mode: TX 802.11G Mode				1:39	
Channel frequency		6dB Bandwidth	99% Bandwidth	Limit	
(MHz)		(MHz)	(MHz)	(MHz)	
2412		16.41	16.413		
2437		16.40	16.398	>=0.5	
2462		16.39	16.404		
		802.11G	Mode	•	
		2412 N	ЛНz		
					





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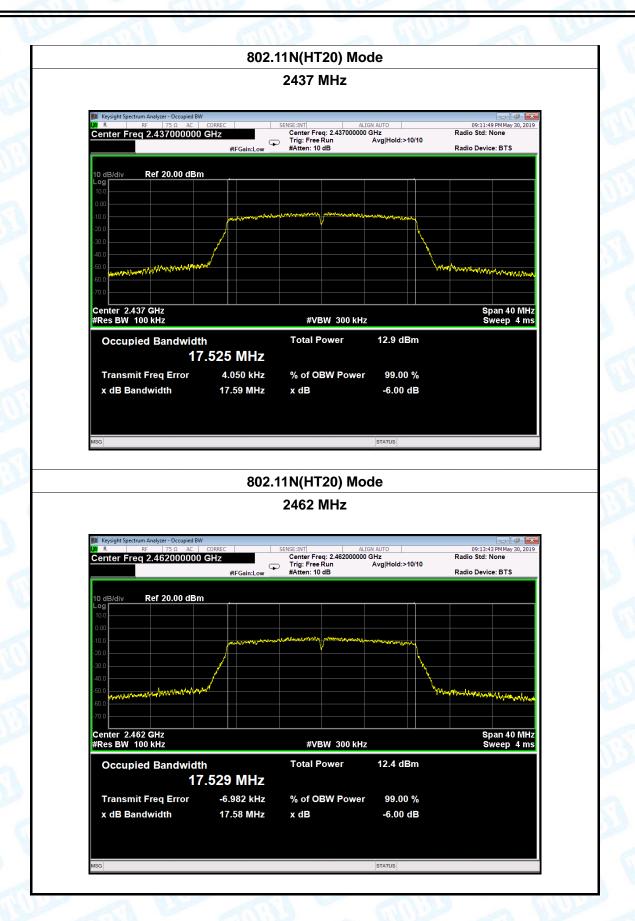
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Temperature:	25 °C		Relative Humidity:	55%			
Test Voltage:	DC 3	5.7V					
Test Mode:	TX 8	02.11N(HT20) Mode	100	11:15			
Channel freque	ncy	6dB Bandwidth	99% Bandwidth	Limit			
(MHz)		(MHz)	(MHz)	(MHz)			
2412		17.57	17.532				
2437		17.59	17.525	>=0.5			
2462		17.58	17.529				
	l .	802.11N(HT2	20) Mode	1			
		2412 N	1Hz				
Keysight Spectrur	n Analyzer - Occupie	d BW					
R RF 75 Ω AC CORREC SENSE:INT ALIGN AUTO 09:09:49 PM May 30, 2019							
The second secon	2.4120000	Trig: Free Run Avg Hold:>10/10 Radio Std. Note ##FGain:Low ##FEGain:Low ##Atten: 10 dB Radio Device: BTS					



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mperature:	25 ℃	Relative Humidity:	55%
st Voltage:	DC 3.7V	The same of the sa	W A
st Mode:	TX 802.11N(HT40) Mo	ode	
annel frequenc	y 6dB Bandwidth	n 99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2422	36.09	35.803	
2437	36.33	35.782	>=0.5
2452	36.27	35.760	
	802.11N	(HT40) Mode	
Keysight Spectrum Anal	lyzer - Occupied BW	22 MHz	09:19:29 PM May 30, 2019
	lyzer - Occupied BW 75 \(\Omega \) AC CORREC SENSE:11 1220000000 GHz Cer Trig	nt ALIGN AUTO nter Freq: 2.42200000 GHz Radio g: Free Run Avg Hold:>10/10	
Center Freq 2.4		nt ALIGN AUTO nter Freq: 2.42200000 GHz Radio g: Free Run Avg Hold:>10/10	09:19:29 PM May 30, 2019 o Std: None
Center Freq 2.4		nt ALIGN AUTO nter Freq: 2.42200000 GHz Radio g: Free Run Avg Hold:>10/10	09:19:29 PM May 30, 2019 o Std: None
Center Freq 2.4		nt ALIGN AUTO nter Freq: 2.42200000 GHz Radio g: Free Run Avg Hold:>10/10	09:19:29 PM May 30, 2019 o Std: None
Center Freq 2.4		nt ALIGN AUTO nter Freq: 2.42200000 GHz Radio g: Free Run Avg Hold:>10/10	09:19:29 PM May 30, 2019 o Std: None
Center Freq 2.4 10 dB/div Re Log 10.0 -10.0 -20.0 -40.0		nt ALIGN AUTO Inter Freq: 2.422000000 GHz g: Free Run Avg Hold:>10/10 Radio	09:19:29 PM May 30, 2019 o Std: None b Device: BTS
Center Freq 2.4 10 dB/div Re Log 10.0 20.0 30.0 40.0 50.0		nt ALIGN AUTO Inter Freq: 2.422000000 GHz g: Free Run Avg Hold:>10/10 Radio	09:19:29 PM May 30, 2019 o Std: None
Center Freq 2.4 10 dB/div Re Log 10.0 -10.0 -20.0 -40.0	175 0 AC CORREC SENSE:11 175 0 AC CORREC Triq #At #FGain:Low #FGain:Low #At #At	nt ALIGN AUTO Inter Freq: 2.422000000 GHz g: Free Run Avg Hold:>10/10 Radio	09:19:29 PM May 30, 2019 o Std: None b Device: BTS

% of OBW Power

x dB

99.00 %

-6.00 dB

35.803 MHz

21.499 kHz

36.09 MHz

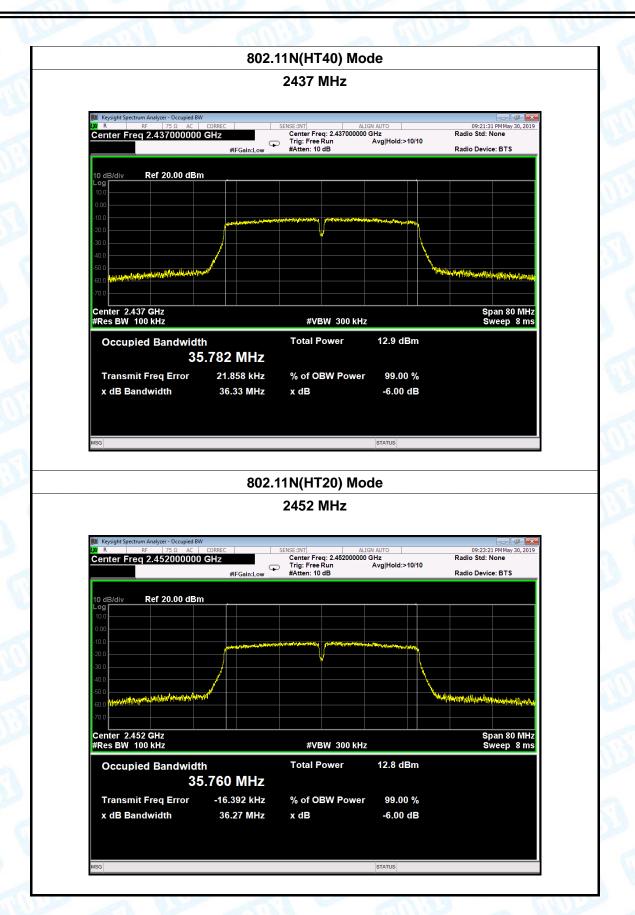
Transmit Freq Error

x dB Bandwidth





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Attachment E-- Peak Output Power Test Data

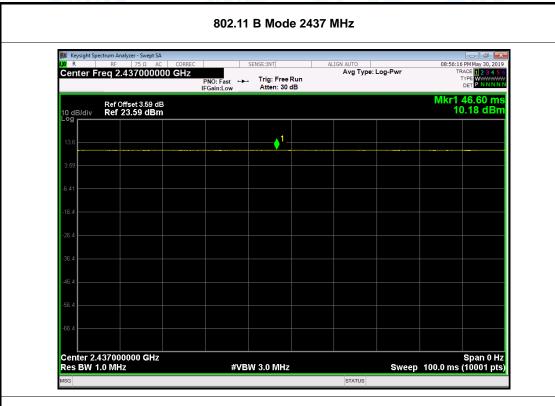
Test Conditions	: Continuous Transm	nitting Mode	The state of the s
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	W. C.	
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
	2412	18.51	
802.11b	2437	17.68	
802.110	2462	17.44	
	2412	18.91	
802.11g	2437	18.28	
	2462	17.87	30
902.44%	2412	17.47	30
802.11n (HT20)	2437	16.26	
(11120)	2462	15.83	
802.11n	2422	16.37	
(HT40)	2437	16.24	
(11140)	2452	16.09	
	Resu	ult: PASS	

Duty Cycle					
Mode	Channel frequency (MHz)	Test Result			
802.11b	2412				
	2437				
	2462				
	2412				
802.11g	2437				
	2462	000/			
000 44	2412	>98%			
802.11n	2437				
(HT20)	2462				
	2422				
802.11n	2437				
(HT40)	2452				

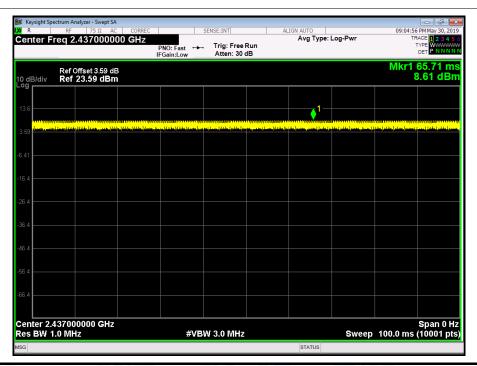


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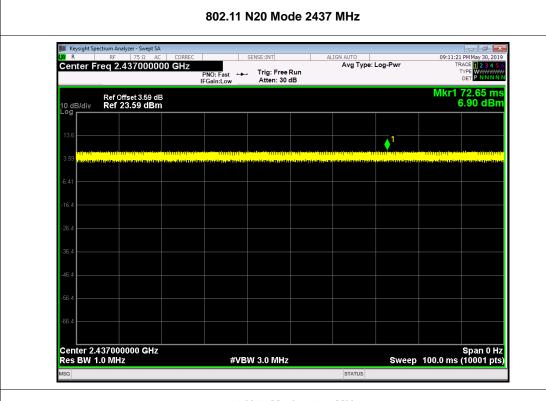




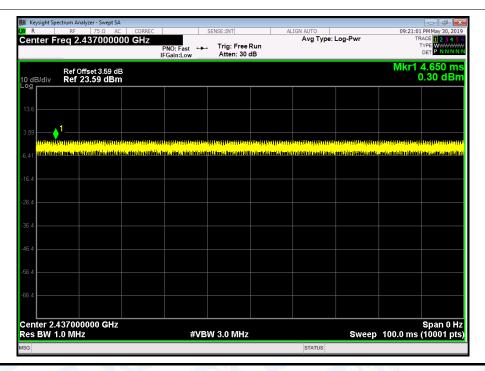














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Attachment F-- Power Spectral Density Test Data

Temperature: 25 °C		Relative Hu	Relative Humidity:			
Test Voltage: DC 3.7\			65	7:13		
Test Mode:	TX 802.1	1B Mode	J W			
Channel Frequency		Power Density		Limit		
(MHz)		(dBm/3 kHz)	(dBm/3 kHz) (dBm/3 k			
2412		-11.858				
2437		-12.576		8		
2462		-12.880				
000 447 14						

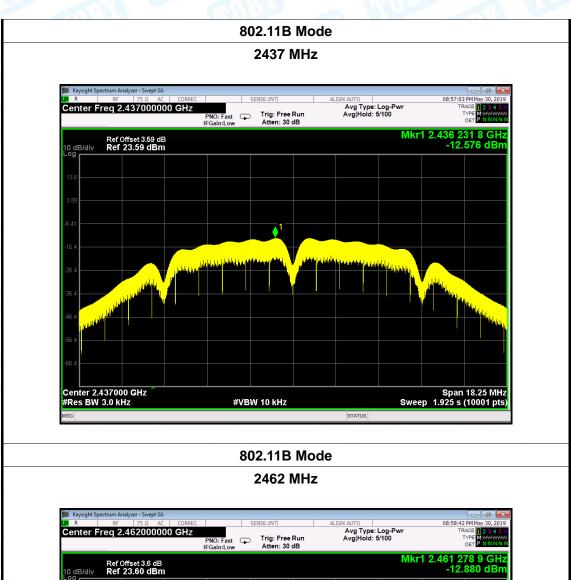
802.11B Mode

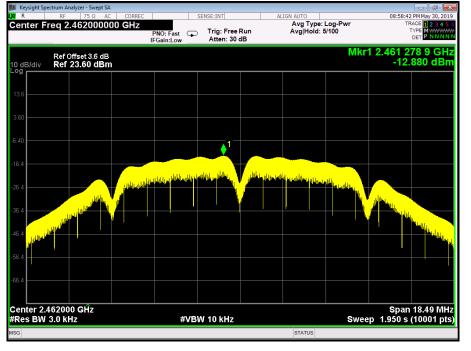




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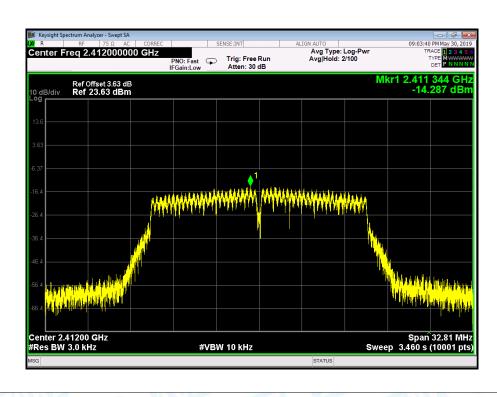






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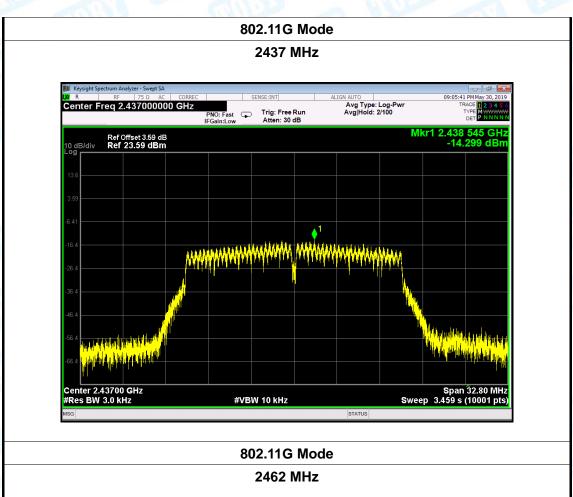
Temperature:	25 ℃		Tem	perature:	25 ℃	
Test Voltage: DC 3.7V				Mill of Sal		
Test Mode: TX 802.1		IG Mode	100	67	TI SE	
Channel Frequency		Power Density			Limit	
(MHz)		(dBm	/3 kHz)		(dBm/3 kHz)	
2412		-14	.287			
2437		-14	.299		8	
2462		-14	.422			
		802.11	G Mode	· · · · · · · · · · · · · · · · · · ·		

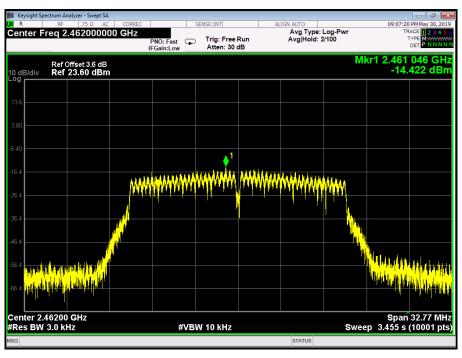




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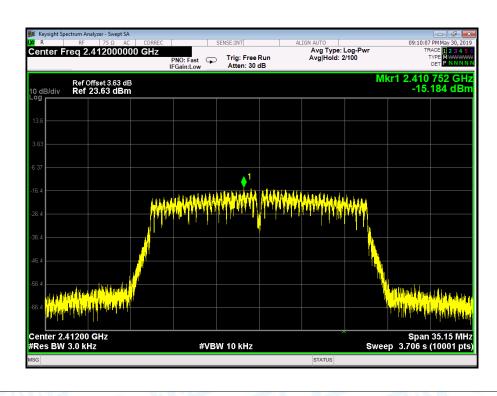




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Temperature:	25 ℃		Temperature:	25 ℃		
Test Voltage:	DC 3.7V		CHILD S			
Test Mode:	TX 802.1	1N(HT20) Mode	2.0			
Channel Freq	uency	Power De	nsity	Limit		
(MHz)	(MHz)		(dBm/3 kHz) (dl			
2412		-15.18	84			
2437		-16.285		8		
2462		-16.73	3			
902 11N/UT20\ Mada						

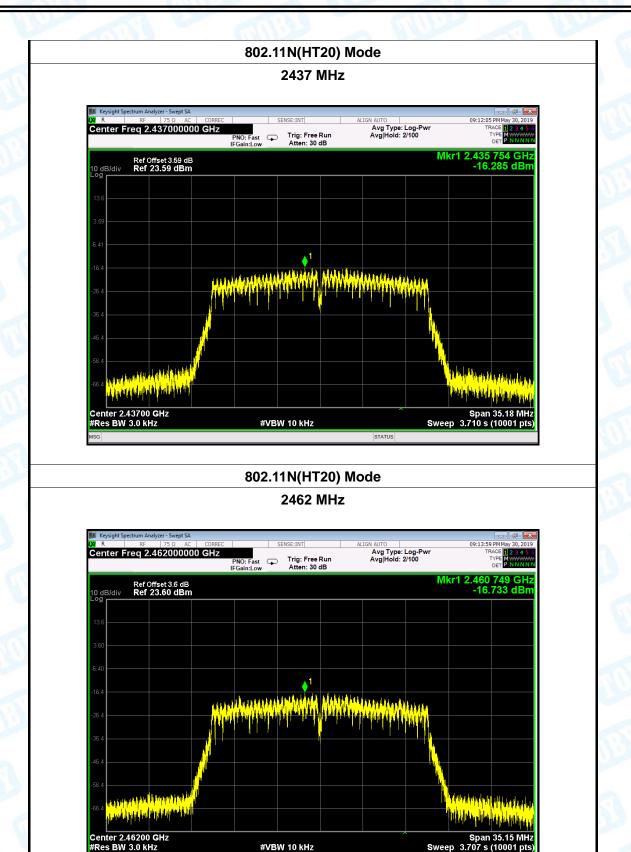
802.11N(HT20) Mode





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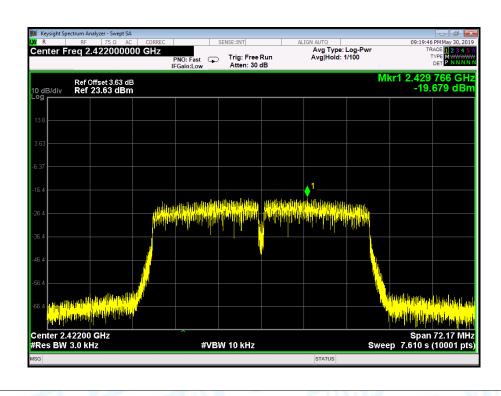






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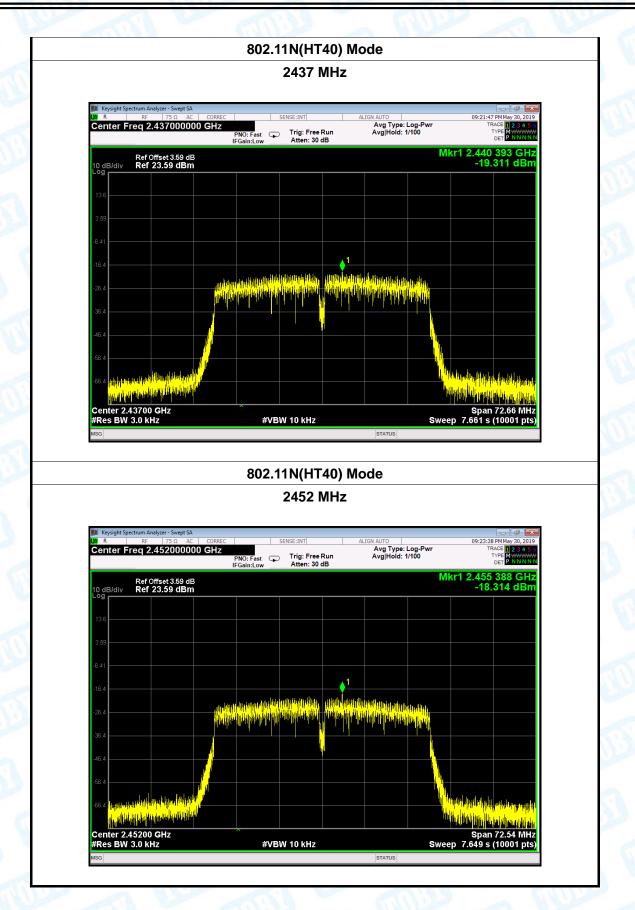
Temperature:	25 ℃	Contract of	Temperature:	25 ℃
Test Voltage: DC 3.7V				
Test Mode: TX 802.		1N(HT40) Mode	THE PERSON NAMED IN	1
Channel Frequency		Power De	nsity	Limit
(MHz)		(dBm/3 k	Hz)	(dBm/3 kHz)
2422		-19.679		
2437		- 19.311 8		8
2452		-18.314		
		802.11N(HT4	0) Mode	





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----END OF REPORT----