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www.wsct-cert.com

TEST REPORT

FCC ID: 2AIZN-X624

Product: Mobile Phone

Model No.: X624

Additional Model No.: N/A

Trade Mark: Infinix

Report No.: FCC18110005A-Wi-Fi

Issued Date: Nov. 17, 2018

Issued for:

INFINIX MOBILITY LIMITED

RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17

CANTON RD TST KLN HONG KONG

Issued By:

World Standardization Certification & Testing Group Co., Ltd.

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TESTING
NVLAP LAB CODE 600142-0



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X	10.4 TEST RESULT	X		47	









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1. GENERAL INFORMATION

	annual property of the Contract of the Contrac
Product:	Mobile phone
Model No.:	X624
Additional /	NIA
Model:	N/A WSGT WSGT
Applicant:	INFINIX MOBILITY LIMITED
Address:	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address:	1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C
Data of receipt:	Nov. 02, 2018
Date of Test:	Nov. 03, 2018 to Nov. 15, 2018
Applicable Standards:	FCC Rules Part15 Subpart C.
	and have been deaded by Martid Standardination Contification & Testing Group Co. Ltd. and

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Pushixi	Date:	NOV. 17, 2018	
	(Pu Shixi)			
				Certification
Check By:	ain Shuiquan	Date:	Nov.1), 2018	The state of the s
	(Qin Shuiquan)			
	5 Word Sand bond		HAR I	18
Approved By:	N. A.	Date:	NOV 17, 2018	OHOM * PITO
. X	(Wang Fengbing)			

Certification

Report No. FCC18110005A-WI-Fi ..Ltd.

ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com

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1.1.GENERAL DESCRIPTION OF EUT

Equipment Type: Mobile Phone Test Model: X624 Additional Model: Infinix Applicant: Infinix MOBILITY LIMITED Address: RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG Manufacturer: SHENZHEN TECNO TECHNOLOGY CO.,LTD. 1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C Wersion: X624-H8026CDE-GO-181024V73 Extreme Temp. Tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Output: DC 5.0V:1.2A Operating Frequency Channels 11 Channel Spacing 5MHz Modulation Type: Integral Antenna Antenna gain: 1.26Bi Deviation None Condition of Test Sample		X	Please Contact with \ www.wsct-cert.co
Additional Model: Trade Mark: Applicant: INFINIX MOBILITY LIMITED Address: RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG Manufacturer: SHENZHEN TECNO TECHNOLOGY CO.,LTD. 1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C V2.0 Version: Software Version: Extreme Temp. Tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Operating Frequency Channels 11 Channel Spacing 5MHz Modulation Type: Integral Antenna Antenna Type: Integral Antenna Antenna gain: None Condition of Normal.	ŕ	Equipment Type:	Mobile Phone
Model: Trade Mark: Infinix Applicant: INFINIX MOBILITY LIMITED Address: RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG Manufacturer: SHENZHEN TECNO TECHNOLOGY CO.,LTD. 1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C Hardware version: Software version: Extreme Temp. Tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Battery Information: Li-Polymer Battery: BL-34BX Voltage: 3.8V Adapter: Li-Polymer Battery: BL-3		Test Model:	X624
Applicant: INFINIX MOBILITY LIMITED Address: RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG Manufacturer: SHENZHEN TECNO TECHNOLOGY CO.,LTD. 1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C Hardware version: V2.0 Software version: X624-H8026CDE-GO-181024V73 Extreme Temp. Tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Battery Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter: CU-52JT Input: AC 100-240V 50/60Hz 200mA Output: DC 5.0V1.2A Operating Frequency Channels 11 Channel Spacing 5MHz Modulation Type CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None Condition of Normal			N/A
Address: RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG Manufacturer: SHENZHEN TECNO TECHNOLOGY CO.,LTD. 1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C Hardware version: Extreme Temp-tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Operating Prequency Channels 11 Channel Spacing 5MHz Modulation Type: Integral Antenna Antenna gain: 1.26Bi Deviation Normal	7	Trade Mark:	Infinix WSET WSET
Manufacturer: SHENZHEN TECNO TECHNOLOGY CO.,LTD. Address: SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C Hardware version: V2.0 Software version: Li-Polymer Battery: BL-34BX Voltage: 3.8V Battery Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Output: DC 5.0V1.2A Operating Frequency Physical Capacity: 3500mAh/200mAh		Applicant:	INFINIX MOBILITY LIMITED
Address: 1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C Hardware version: X624-H8026CDE-GO-181024V73 Extreme Temp. Tolerance: Li-Polymer Battery : BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Output: DC 5.0V1.2A Operating Frequency 2412-2462MHz Channel Spacing 5MHz Modulation Type CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None Condition of Narmal		Address:	
Address: SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C Hardware version: V2.0 Software version: X624-H8026CDE-GO-181024V73 Extreme Temp-Tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Output: DC 5.0V1.2A Operating Frequency 2412-2462MHz Channels 11 Channel Spacing 5MHz Modulation Type: Integral Antenna Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None Condition of Normal		Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
version: Software version: Extreme Temp. Tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Battery information: Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Output: DC 5.0V1.2A Operating Frequency Channels 11 Channel Spacing 5MHz Modulation Type: Antenna Type: Integral Antenna Antenna gain: Deviation None Condition of Normal Normal Normal X624-H8026CDE-GO-181024V73 X624-H8026CDE-GO-181024V7 X624-H8026CDE-GO-181024V7 X624-H8026CDE-GO-181024V7 X624-H8026CDE-GO-181024V7 X624-H8026CDE-GO-181024V7 X624-H8026CDE-CO-181024V7 X624-H80	_	Address:	SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG
version: Extreme Temp. Tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Operating Frequency Channels 11 Channel Spacing 5MHz Modulation Type Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None Condition of Normal Li-Polymer Battery: BL-34BX Voltage: 3.8V Rated Capacity: 3500mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter; CU-52JT Input: AC 100-240V 50/60Hz 200mA Output: DC 5.0V1.2A Operating Frequency CCK for IEEE 802.11b OFDM for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna gain: 1.26Bi Deviation None Condition of		version:	V2.0
Tolerance: Li-Polymer Battery: BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Operating Frequency Channels 11 Channel Spacing Modulation Type CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna Type: Integral Antenna Antenna gain: Deviation None Condition of Normal	Ć		X624-H8026CDE-GO-181024V73
Battery information: Notage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V Adapter Information: Adapter: CU-52JT Input: AC 100-240V 50/60Hz 200mA Output: DC 5.0V1.2A Operating Frequency Channels 11 Channel Spacing 5MHz Modulation Type CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None Condition of Normal		•	
Adapter Information: Adapter: CU-52JT Input: AC 100-240V 50/60Hz 200mA Output: DC 5.0V1.2A Operating Frequency 2412-2462MHz Channels 11 W5/T W5/T Channel Spacing 5MHz Modulation Type OFDM for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None W5/T Normal		information:	Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh
Channels Channel Spacing 5MHz Modulation Type CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None Condition of Normal	1	Information:	Input: AC 100-240V 50/60Hz 200mA
Channel Spacing 5MHz Modulation Type CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None W577 W577 Condition of Normal			2412-2462MHz
Modulation Type CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40 Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None W577 W577 Condition of Normal	-	Channels	11 WSET WSET WSET
Antenna Type: Integral Antenna Antenna gain: 1.26Bi Deviation None Normal		Channel Spacing	5MHz
Antenna gain: 1.26Bi Deviation None W577 W577 Condition of Normal	1	Modulation Type	
Deviation None W5[T] W5[T] Condition of Normal		Antenna Type:	Integral Antenna
Condition of Normal		Antenna gain:	1.26Bi
INOrmal		Deviation	None WSET WSET
			Normal









1.2. FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at www.wsct-cert.com

Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen,

Guangdong, China of the World Standardization Certification & Testing Group Co., Ltd.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Registration Number: 366353

1.2.1. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA
NVLAP (The certificate registration number is NVLAP LAB CODE:600142-0)

VCCI (The certificate registration number is C-4790, R-3684, G-837)

Canada INDUSTRY CANADA

(The certificated registration number is 7700A-1)

China CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site,

http://www.wsct-cert.com

WSET	WSET	WSET	WSET	WSET	
	W-	SET W		W5ET	WSET
WSET	WSET	WSET	WSET	WSET	
				WSET	WSET
WSET	W5ET	WSET	WSET	WSET	
				WSET	WSET
Certification of the second of	7 Resting Group	WSET	WSIT	WSET	

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2. TEST DESCRIPTION

2.1 MEASUREMENT UNCERTAINTY

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

approxima	ately 95 %	0 0	\sim	\times
	No.	Item	Uncertainty	
WSET	1	Conducted Emission Test	±3.2dB	WSET
\searrow	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	
W5E	4	All emissions, radiated(<1G)	±4.7dB W5CT	WSET
	5	All emissions, radiated(>1G)	±4.7dB	
	6	Temperature	±0.5°C	
W5ET	7 W5	Humidity W5ET	±2% W5ET	WSET
WSE	7	WSET WSE	WSET	WSET
WSET	WS		WSET	WSET
WSE		WSET		WSET
WSET	Wis	ET WSET	WSET	WSET
WSE		WSET WSE	T WSET	WSET
WSET		WSET*	WSET	WSET
\times		WSET WSE		WSET
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2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test systemact-cert.com 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 above was evaluated respectively.

	Pretest Mode	Description	
	Mode 1	W5LT 802.11b 5LT W5	Ci
/	Mode 2	802.11g	
	Mode 3	802.11n20	
Z	Mode 4	W5802.11n40 W5[T]	

For Conducted Emission						
Final Test Mode	Description					
Mode 1	802.11b					

For Radiated Emission							
4	Final Test Mode	Description					
	Mode 1	802.11b					
	Mode 2	802.11g					
	Mode 3	802.11n20					
	Mode 4	802.11n40					

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3) The data rate was set in 1Mbps, 6 Mbps, 6.5 Mbps and 13.5M for radiated emission due to the highest RF output power.
- (4) Record the worst case of each test item in this report.
- (5) When we test it, the duty cycle ≥ 98%

WSET WSET WSET WSET WSET WSET WSET WSET

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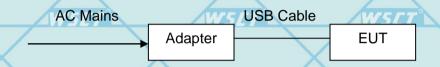
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING/LAP LAB CODE 600142-0

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 selectionact-cert.com 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 FHSS

Test software Version	X	N/A	X	
Test program		1		

Frequency(802.11b/g/n20)	2412 MHz	2437 MHz	2462 MHz
Frequency(802.11n40)	2422 MHz	2437 MHz	2452 MHz

2.4 CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Mobile Phone)

I/O Port of EUT						
I/O Port Type Q'TY Cable T						
USB port WSCT	1 /W	1m USB cable, unshielded	1			
Power	1/	1m	1			

2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

/	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	1	CU-52JT	/	X
-	2	August	August	N/A	1	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
 - (4) The adapter supply by the applicant.

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3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	WELT	WEET	MAG	₽	
/		FCC Part15 (15.247) , Subpart (
7	Standard Section	Test Item	Judgment	Remark	
	15.207	Conducted Emission Test	PASS	Complies	
	15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz		Complies	
/	15.247(b)	Maximum peak outputpower Limit: max. 30dBm	PASS	Complies	
	15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies	
	15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies	
	15.247(d)	Band edge Limit: 30dB less than Reference level	PASS WS	Complies	
/		Restricted band limit: Table 15.209			

WSU WSU WSU

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

SET WSET WSET WSET WSET

WSET WSET WSET WSET WSET

WSET WSET WSET WSET

WSET WSET WSET

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ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com

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4. MEASUREMENT INSTRUMENTS

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_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibratio n Due.
	EMI Test Receiver	R&S	ESCI	100005	08/19/2018	08/18/2019
_	LISNW5E7	AFJ WS	LS16	16010222119	08/19/2018	08/18/2019
	LISN(EUT)	Mestec	AN3016	04/10040	08/19/2018	08/18/2019
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2018	08/18/2019
_	Coaxial cable	Megalon	LMR400	N/A	08/12/2018	08/11/2019
	GPIB cable	Megalon	GPIB	N/A	08/12/2018	08/11/2019
	Spectrum Analyzer	R&S	FSU	100114	08/19/2018	08/18/2019
	Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2018	10/12/2019
	Pre-Amplifier	CDSI	PAP-1G18-38		10/13/2018	10/12/2019
/	Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2018	09/12/2019
_	9*6*6 Anechoic			/	08/21/2018	08/20/2019
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	<u></u>	09/13/2018	09/12/2019
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2018	08/22/2019
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/25/2018	04/24/2019
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R
_	Turn Table	W ccs	N/A'5ET	N/A	5 N.C.R	N.C.R
	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R
	RF cable	Murata	MXHQ87WA3000		08/21/2018	08/20/2019
	Loop Antenna	EMCO	6502	00042960	08/22/2018	08/21/2019
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2018	08/18/2019
	Power meter	Anritsu	ML2487A	6K00003613	08/23/2018	08/22/2019
_	Power sensor	Anritsu	MX248XD		08/19/2018	08/18/2019

WSET WSET WSET WSET

X

ZWSLI

AWSE1







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5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Conducted limit (dBµ	ıV)
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

	V V
Receiver Parameters	Setting
Attenuation	10 dB _{VSFT}
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Report No.:FCC18110005A-Wi-Fi

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AL L CIL MOOTEN





5.1.2 TEST PROCEDURE

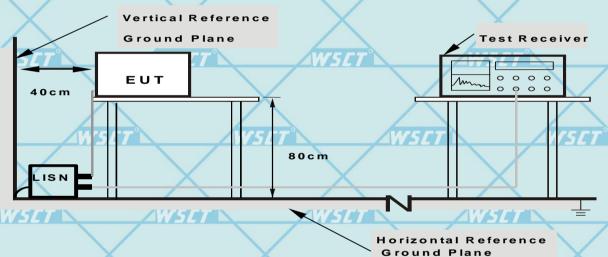
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- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation

5.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



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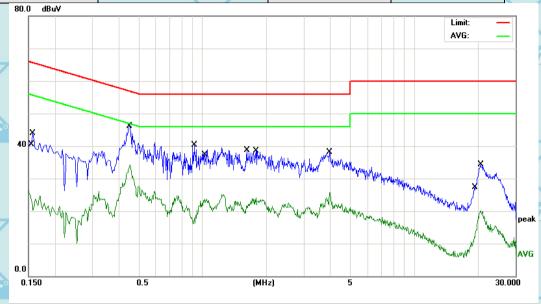




5.1.6 TEST RESULTS

X	X X	X	X
Temperature	26 ℃	Relative Humidity	54%
Pressure	1010hPa	Phase	LW5/T
Test Mode	Mode 1		

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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
7	1		0.1524	14.59	10.45	25.04	55.86	-30.82	AVG
	2		0.1582	32.51	10.45	42.96	65.55	-22.59	QP
	3	*	0.4500	35.62	10.51	46.13	56.87	-10.74	QP
	4		0.4540	23.70	10.51	34.21	46.80	-12.59	AVG
ľ	5		0.9100	29.86	10.54	40.40	56.00	-15.60	QP
	6		1.0260	13.11	10.55	23.66	46.00	-22.34	AVG
7	7		1.6140	28.02	10.65	38.67	56.00	-17.33	QP
	8		1.7900	13.50	10.68	24.18	46.00	-21.82	AVG
	9		3.9780	27.35	10.73	38.08	56.00	-17.92	QP
	10		3.9900	15.06	10.73	25.79	46.00	-20.21	AVG
	11		18.9540	-0.40	11.08	10.68	50.00	-39.32	AVG
	12		20.5900	23.24	11.06	34.30	60.00	-25.70	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

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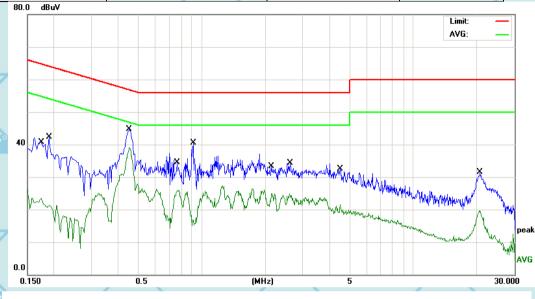






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Temperature	26 ℃	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Mode	Mode 1		ZW5LT



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
	1		0.1740	13.15	10.45	23.60	54.76	-31.16	AVG	. 2
	2		0.1900	31.80	10.45	42.25	64.03	-21.78	QP	
	3		0.4540	34.25	10.51	44.76	56.80	-12.04	QP	
1/	4	*	0.4540	28.68	10.51	39.19	46.80	-7.61	AVG	
	5		0.7740	15.36	10.54	25.90	46.00	-20.10	AVG	
-	6		0.9100	29.92	10.54	40.46	56.00	-15.54	QP	
	7		2.1420	14.29	10.71	25.00	46.00	-21.00	AVG	Ž
/	8		2.6180	23.60	10.72	34.32	56.00	-21.68	QP	
	9		4.5020	21.82	10.74	32.56	56.00	-23.44	QP	
4/	10		4.5020	10.83	10.74	21.57	46.00	-24.43	AVG	
	11		20.4900	8.73	11.06	19.79	50.00	-30.21	AVG	/
	12		20.6060	20.46	11.06	31.52	60.00	-28.48	QP	\

Remark: All the modes have been investigated, and only worst mode is presented in this report.







5.2 RADIATED EMISSION MEASUREMENT

5.2.1 Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

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20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

_	ilo irodi		
	Frequencies	Field Strength	Measurement Distance
	(MHz)	(micorvolts/meter)	(meters)
\	0.009~0.490	2400/F(KHz)	300
	0.490~1.705	24000/F(KHz)	30
7	1.705~30.0	30	30
Y	30~88	100	3
	88~216	150	3
	216~960	200	3
	Above 960	500	W51 3 W5

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
FREQUENCT (MIDZ)	PEAK	AVERAGE		
Above 1000	74	54		

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	5
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



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5.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

 Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.3 DEVIATION FROM TEST STANDARD

ADD:Bujlding A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, Chir TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http:www.wsct-cert.co

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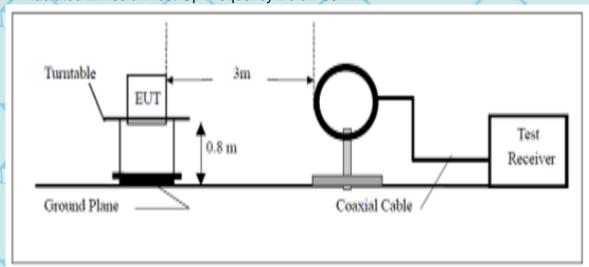




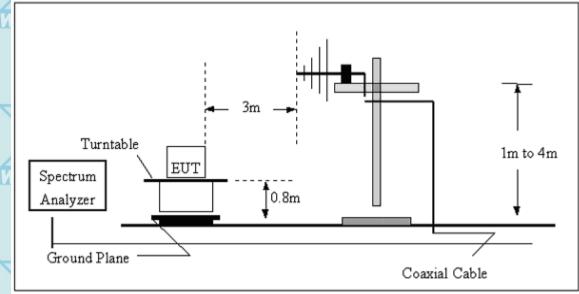
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5.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



V567

W5ET

AWSET

WSET G

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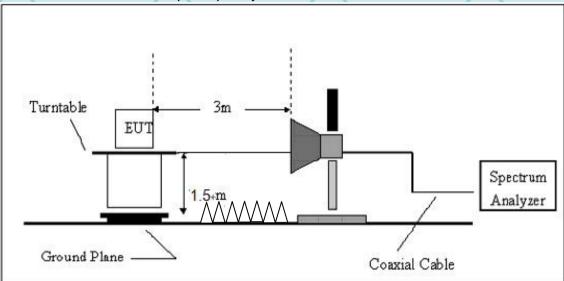






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(C) Radiated Emission Test-Up Frequency Above 1GHz



5.2.5 EUT OPERATING CONDITIONS

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The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

WSET	WSET	WSET	WSET	WSET	
W/S		SET WS		ET .	WSET
WSET	WSET	WSET	WSET	WSLT	
	W.	SET WS	CT WS	E7	W5LT
WSET	WSET	WSET	WSET	WSLT	
	W	5CT W.5	ET WS	E7	WSET
World Standard zation Cert	The Grown WS LT	WSET	WSET	WSET	
World Standardization Cert	世标检测认证股份 All TE	DD:Building A-B Baoshi Science & tech L:86-755-26996143/26996144/26996145/26996	nnology Park, Baoshi Road, Baoʻan 6192 FAX:86-755-86376605 E-mail:Fengbing	District, Shenzhen, Guangdo g.Wang@wsct-cert.com Http:www.ws	ng, China sct-cert.com

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5.2.5.1 RESULTS (Below 30 MHz)

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						11111111001 001	1100111
X	Temperature	20 ℃	Augus	Relative Humidity	60%	<i>A</i>	
	Pressure	1010 hPa	ZW-514	Test Mode	Mode 1		36

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
	/	/	\	Р
	<u></u>		/	Р

NOTE:

WSET"

No result in this part for margin above 20dB.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

WSET"

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

WSET	WSET	WSET	WSET	WSET
WSET WS	$\langle \hspace{0.1cm} \rangle$			TT.
WSET	WSET	WSET	WSET	WSET
WSET WS	$\langle \rangle$	$\langle \hspace{0.1cm} \rangle$		TET .
WSET	WSET	WSET	W5ET°	WSET
WSET WS	$\langle \hspace{0.1cm} \rangle$			SET
	WSET	WSET	WSET	WSET
Certification & Regulation of the Control of the Co				/

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esting Group Co.,Ltd.

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5.2.5.2 TEST RESULTS (Between 30M - 1000 MHz)

For Question,
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				11111111001
	Temperature	20 ℃	Relative Humidity	60%
)	Pressure	1010 hPa	Polarization :	Horizontal
	Test Mode	Mode 1		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Trans
		MHz	dBu∀	dB	dBu∀/m	dBuV/m	dB	Detector
1	*	31.6202	22.28	4.17	26.45	40.00	-13.55	QP
2		54.0711	25.73	-5.51	20.22	40.00	-19.78	QP
3	1	16.9495	21.68	-2.54	19.14	43.50	-24.36	QP
4	2	66.6089	27.50	-3.88	23.62	46.00	-22.38	QP
5	3	29.0390	30.66	-2.03	28.63	46.00	-17.37	QP
6	5	08.2582	32.07	-0.29	31.78	46.00	-14.22	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

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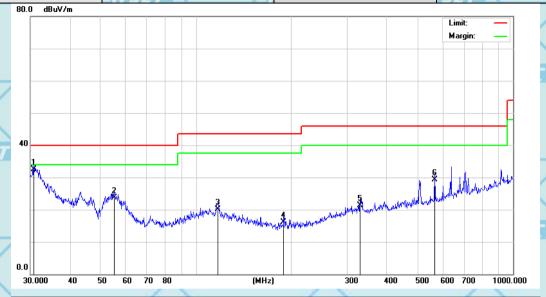
NSE

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v			NVLAP LAB CODE 60	0142-0	
	Temperature	20 ℃	Relative Humidity	60%	For Question, Please Contact with WSCT
/	Pressure	1010 hPa	Polarization :	Vertical	www.wsct-cert.com
1	Test Mode	Mode 1			MECET



7	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	WA.
			MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector
	1	*	30.7455	28.00	4.50	32.50	40.00	-7.50	QP
/	2	1	55.2207	29.25	-5.64	23.61	40.00	-16.39	QP
	3	•	117.3603	22.66	-2.58	20.08	43.50	-23.42	QP
7	4		189.0743	23.32	-7.18	16.14	43.50	-27.36	QP
#	5	4	329.0390	23.27	-1.88	21.39	46.00	-24.61	QP
	6		566.6223	28.17	1.15	29.32	46.00	-16.68	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

WSET WSET WSET WSET WSET WSET WSET WSET







5.2.5.3 TEST RESULTS (1GHz to 25GHz)

For Question,
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V	Temperature	20 °C 5 C T W 5 C T	Relative Humidity	60%
	Pressure	1010 hPa	Test Mode	Mode 1 TX
	Frequency	2412MHz		X

Freq. W	5 Ant.	Emission		Limit 5 C 7		Over(dB)	
(MHz)	Pol.	Level(Level(dBuV)		3m(dBuV/m)		
X	H/V	PK	AV	PK	AV	PK	AV
4824	V	59.93	39.25	74	54	-14.07	-14.75
7236	V	58.59	40.29	75/74	54	-15.41	-13.71
4824	Н	58.21	39.59	74	54	-15.79	-14.41
7236	√H	58.32	39.32	74	54	-15.68	-14.68

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

4	WSET	WSET	WSET	/W	567	
	Temperature	20 ℃	Relative H	umidity	60%	

Frequency	2437MHz W557		WSET
Pressure	1010 hPa	Test Mode	Mode 1 TX
remperature	20 (Relative Humidity	60%

	Freq.	Ant.Pol.	Emission I	_evel(dBuV	Limit		Over(dB)	
_	(MHz)	4		6	3m(dBuV/m)			
1	W-5-9-1	H/V	PK	AV	PK	AV	PK	AV
	4874	V	60.19	39.47	74	54	-13.81	-14.53
	7311	V	59.94	39.58	74	54	-14.06	-14.42
	4874	Ŧ	59.07	39.32	74	54	-14.93	-14.68
	7311	5 E TH	58.52	5/39.52	74	5 54	-15.48	-14.48

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

YSET WSET WSET WSET



WSET

W5ET

W5C1







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1	Temperature	20 °CV5_7	Relative Humidity	60%
	Pressure	1010 hPa	Test Mode	Mode 1 TX
	Frequency	2462MHz		

			The same and the s				
Freq.	Ant.Pol.	Emission	Level(dBuV	Limit		Over(dB)	
(MHz)				3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
4924	V	60.75	40.04	74	54	-13.25	-13.96
7386	V	59.89	40.28	74	54	-14.11	-13.72
4924	H	58.24	39.56	74	54	-15.76	-14.44
7386	H	58.96	39.96	74	54	-15.04	-14.04

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

WELL			
Temperature	20 ℃	Relative Humidity	60%
Pressure	1010 hPa	Test Mode	Mode2 TX
Frequency	2412MHz		West

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dl	BuV/m)	Over(dB)	
	H/V	PK	AV _	PK	AV	PK	AV
4824	V	60.27	40.13	56/74	54	-13.73	-13.87
7236	V	59.93	40.09	74	54	-14.07	-13.91
4824	×Η	59.67	40.39	74	54	-14.33	×-13.61
7236	Н	58.92	39.92	74	54	-15.08	-14.08

Remark:

WSET"

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

AWSET N

All the x/y/z orientation has been investigated, and only worst case is presented in this report.



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For Question

	Temperature	20 ℃	Relative Humidity	60% Please Contact www.wsct-co	
1	Pressure	1010 hPa	Test Mode	Mode 2 TX	N 5ET
	Frequency	2437MHz			

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4874	V	60.16	41.29	74	54	-13.84	-12.71
7311	V Z	59.12	40.76	74	54	-14.88	-13.24
4874	HZW	59.18	39.77	5 74	54	-14.82	-14.23
7311	A	59.99	40.99	74	54	-14.01	-13.01

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 ℃	Relative Humidity	60%
Pressure	1010 hPa	Test Mode	Mode 2 TX
Frequency	2462MHz		

Freq. (MHz)	Ant.Pol.	Emission I	_evel(dBuV)	Lir 3m(dB		Over(dB)		
	H/V _	PK	AV	PK	AV _	PK	AV	
4924	V	60.63	41.30	74	54	-13.37	-12.70	
7386	V	58.24	39.41	74	54	-15.76	-14.59	
4924	X	58.76	40.38	74	× 54	-15.24	-13.62	
7386	H	58.48	39.48	74	54	-15.52	-14.52	

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

WSCT WSCT WSCT WSCT WSCT WSCT WSCT







For Question,
Please Contact with WSC

				Please Contac	ct with WS
Temperature	20 ℃		Relative Humidity	60% www.wsct	-cert.com
Pressure	1010 hPa	WSCT	Test Mode	Mode3 TX	W5
Frequency	2412MHz				- AMEA

Freq.	Ant. Pol.	Emission		Limit		Over(dB)		
(MHz)		Level(dBuV)		3m(dBuV/m)				
	H/V	PK	AV	PK	AV	PK	AV	
4824	V	58.34	39.30	74	54	-15.66	-14.70	
7236	V	59.54	39.49	74	54	-14.46	-14.51	
4824	HAI	59.03	40.32	74	54	-14.97	-13.68	
7236	Ĥ	59.17	40.17	74	54	-14.83	-13.83	

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	60%
Pressure	1010 hPa	Test Mode	Mode 3 TX
Frequency	2437MHz		

	Freq.	Ant.Pol.	Emission Level(dBuV)		Limit		Over(dB)	
	(MHz)	X	X		3m(dBuV/m)		X	
	4	H/V	PK /	AV	PK _	AV	PK	AV
1	4874	26 V	58.42	40.40	74	54	-15.58	-13.60
	7311	V	58.90	39.88	74	54	-15.10	-14.12
	4874	Н	58.13	39.46	X 74	54	-15.87	-14.54
	7311	H	58.04	39.04	74	54	-15.96	-14.96

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.









			INVERTI ENDOODE OO	0142 0	
	Temperature	20 ℃	Relative Humidity	60%	For Question, Please Contact with WSCT
	Pressure	1010 hPa	Test Mode	Mode 3 TX	www.wsct-cert.com
1	Frequency	2462MHz		5/7	WSCI

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		3m(dBuV/m)		Over(dB)	
W.	J H/V	PK W	5 C T AV	PK	5 CAV	PK	/5/AV
4924	V	59.25	40.30	74	54	-14.75	-13.70
7386	V	58.92	39.79	74	54	-15.08	-14.21
4924	Н /	58.21	40.32	74	54	-15.79	-13.68
7386	H	59.98	40.98	74	54	-14.02	-13.02

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

/	Temperature	20 ℃		Relative Humidity	60%
Ľ	Pressure	1010 hPa	SLI	Test Mode	Mode4 TX
	Frequency	2422MHz			

	Freq.	Ant.	Emission Level(dBuV)		Limit		Over(dB)	
	(MHz)	Pol.			3m(dBuV/m)		W594	
	\/	H/V	PK	AV	PK	AV	PK	AV
	4844	V	59.33	41.38	74	54	-14.67	-12.62
	7266	V Z	58.05	39.11	74	54	-15.95	-14.89
1	4844	H_/	59.73	40.56	/5_74	54	-14.27	-13.44
	7266	H	58.18	39.18	74	54	-15.82	-14.82

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Report No.:FCC18110005A-Wi-Fi

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For Question.

	Temperature	20 ℃	Relative Humidity	60% Please Contact with www.wsct-cert.	
1	Pressure	1010 hPa	Test Mode	Mode 4 TX	'5 <i>C1</i>
	Frequency	2437MHz			

	Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		10.0	Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK	AV	
	4874	V	58.09	39.87	74	54	-15.91	-14.13	
1	7311	V _	58.69	39.71	74	54	-15.31	-14.29	
14	4874	HAY	58.14	39.41	74	54	-15.86	-14.59	
	7311	H	59.75	40.75	74	54	-14.25	-13.25	

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 ℃	Relative Humidity	60%
Pressure	1010 hPa	Test Mode	Mode 4 TX
Frequency	2452MHz		

Freq. (MHz)	Ant.Pol.	Emission I	_evel(dBuV)	Lir 3m(dB		Over(dB)		
	H/V	PK	AV	PK	AV _	PK	AV _	
4904	V	58.65	40.70	74	54	-15.35	-13.30	
7356	V	58.76	39.15	74	54	-15.24	-14.85	
4904	×Η	59.19	40.42	74	× 54	-14.81	-13.58	
7356	Н	58.13	39.13	74	54	-15.87	-14.87	

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

WSET WSET WSET



WSET W.

WSET

AWSC1





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6. ANTENNA APPLICATION

6.1 Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247

FCC part 15C section 15.247 requirements: Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

6.2 Result

The EUT's antenna Integral Antenna, The antenna's gain is 1.26dBi and meets the requirement.

	THE EUTS all	terma miegrar	Antenna, The anter	ina's gain is i	.200bi and m	eets the requ	mement.	
X		X	X		X		X	
WSET"		WSET	WSET		WSET N		WSET"	/
			\vee					
			\wedge					
	WSET		NSET [®]	WSET		WSET		WSET
X		X	X		X		X	
Aura			August					
∠W5ET		WSET	WSET		AWSET®	$\overline{}$	W5ET°	
			\vee					\mathbf{X}
	WSET		NSET"	WSET		WSET		W5ET
X		X	X		X		X	
WSET		WSET	WSET		WSET		WSET	
Z 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		1126			21/2/6/		W-6/ -	
	X		X	X		X		X
	WSET		NSET*	WSET		WSET"		WSET"
WSET		WSET	WSET		WSET		WSET	
	X		X	X		X		X
			WEET	AWEER	X	AUG CER		War and
	WSET		WSET*	WSET		WSET [®]		WSET®
ine din	OSIII.		X		\times		X	
ardi	WSET	G G						
W EV	+	VSET	W5E1		WSET		WSET	
10	5	世标检测认证股份	ADD:Building A-B Baoshi S	Science & technology	Park, Baoshi Road,	, Bao'an District, Sh	enzhen, Guangdoi	ng, China

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7. 6DB BANDWIDTH MEASUREMENT 7.1 TEST SETUP

EUT Attenuator SPECTRUM ANALYZER

7.2 LIMITS OF 6DB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two

outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured

in the fundamental emission.

7.4 TEST RESULT

6dB Occupied Bandwidth

_	ocapica B	anawiati					
Ī	Mode	802.	11b	Humidity	56%	RH	
	Temperat	ure 24 de	eg. C,				\
/		Channel	Data Transfer	6 dB Bandwidth	Minimum		
V	Channel	Frequency	Rate	(MHz)	Limit	Pass/ Fail	5
		(MHz)	(Mbps)	((MHz)		
	1	2412	1	13.763	0.5	Pass	
	6	2437	1	13.224	0.5	Pass	
	11	2462		13.164	0.5	Pass	

	Mode	802.	11g	Humidity	56%	56% RH	
_	Temperat	ture 24 d	eg. C,				
V	SET	Channel	Data	75-7-1	Minimum	W	
	Channel	Frequency (MHz)	Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Limit (MHz)	Pass/ Fail	
	1	2412	6	16.792	0.5	Pass	
	6	2437	6	17.062	0.5	Pass	
	11	2462	6	17.062	0.5	Pass	

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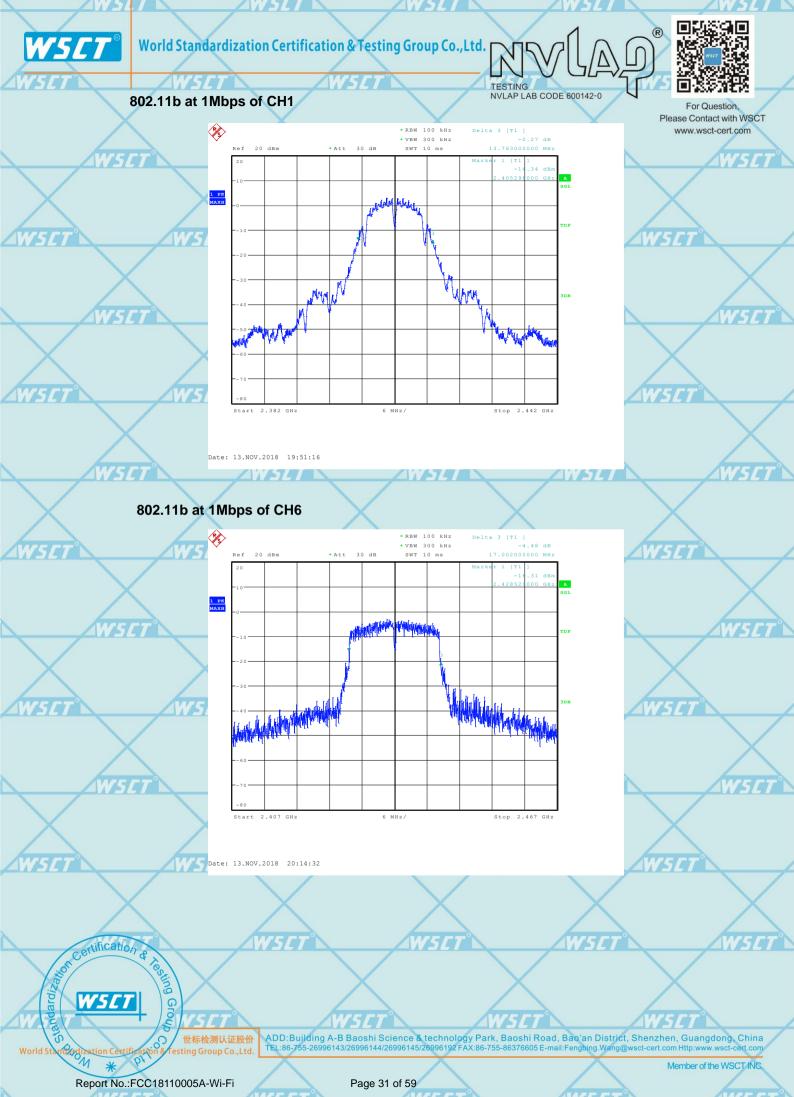


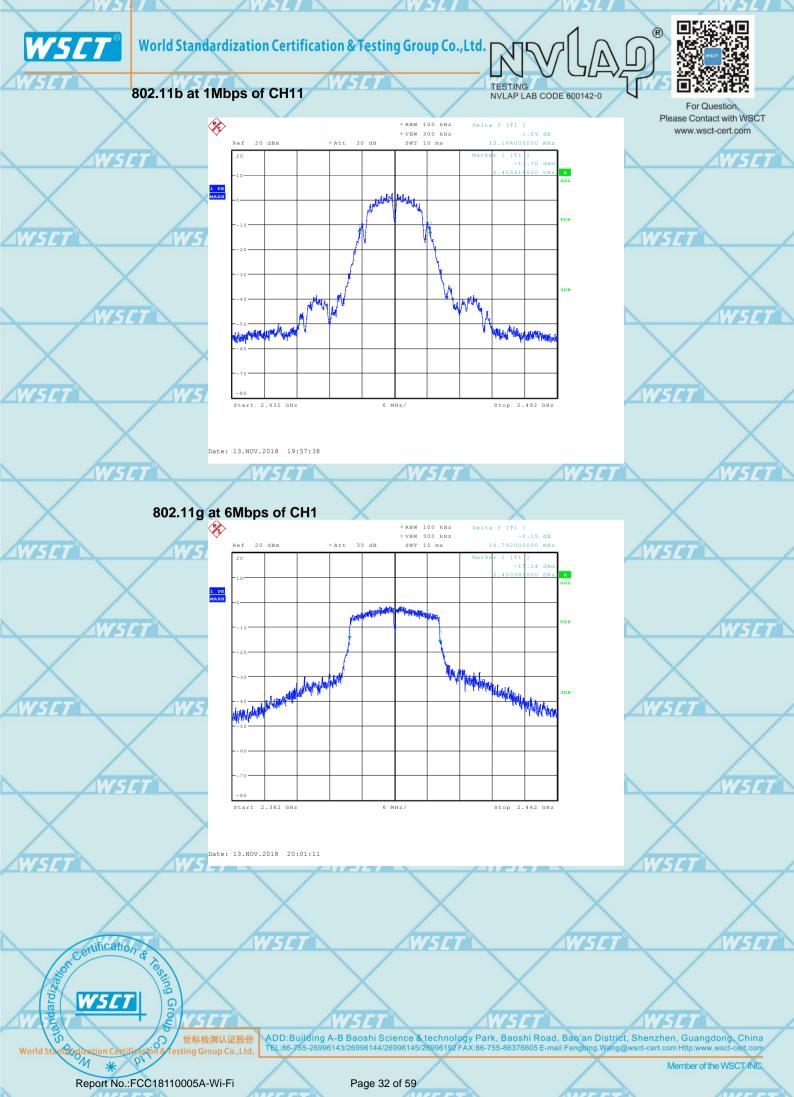
_	Mode	802.	11n20	Humidity NVLAP LA	AB CODE 600142 56 %		
1	Temperat	ure 24 d	eg. C,			For Question,	SC
	\wedge	Channel	Data Transfer	6 dB Bandwidth	Minimum	www.wsct-cert.cd	n
V	Channel	Frequency	Rate	(MHz)	Limit	Pass/ Fail	Z
		(MHz)	(Mbps)		(MHz)		
	1	2412	6.5	17.962	0.5	Pass	
	6	2437	6.5	17.991	0.5	Pass	
	11	2462	6.5	17.991	0.5	Pass	

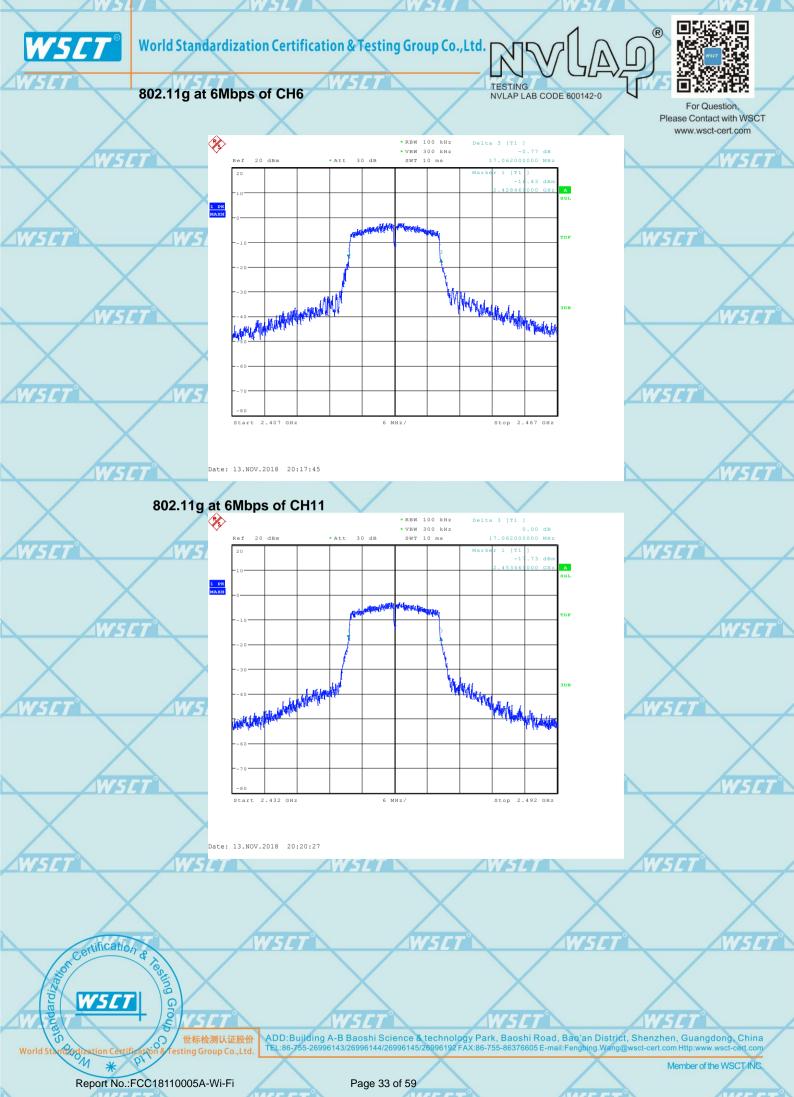
Mode		802.11n40		Humidity		56% RH		35/		
	Temperat	ure	24 de	eg. C,						
	Channel Frequency (MHz)		су	Data Transfer Rate (Mbps)		6 dB Bandwidth (MHz)	Minimum Limit (MHz)		Pass/ Fail	
\	3	2422		13.5		37.062	0.5		Pass	
	× 6	2437	X	13.5		37.062	0.5	X	Pass	X
/	9	2452		13.5		37.122	0.5		Pass /	

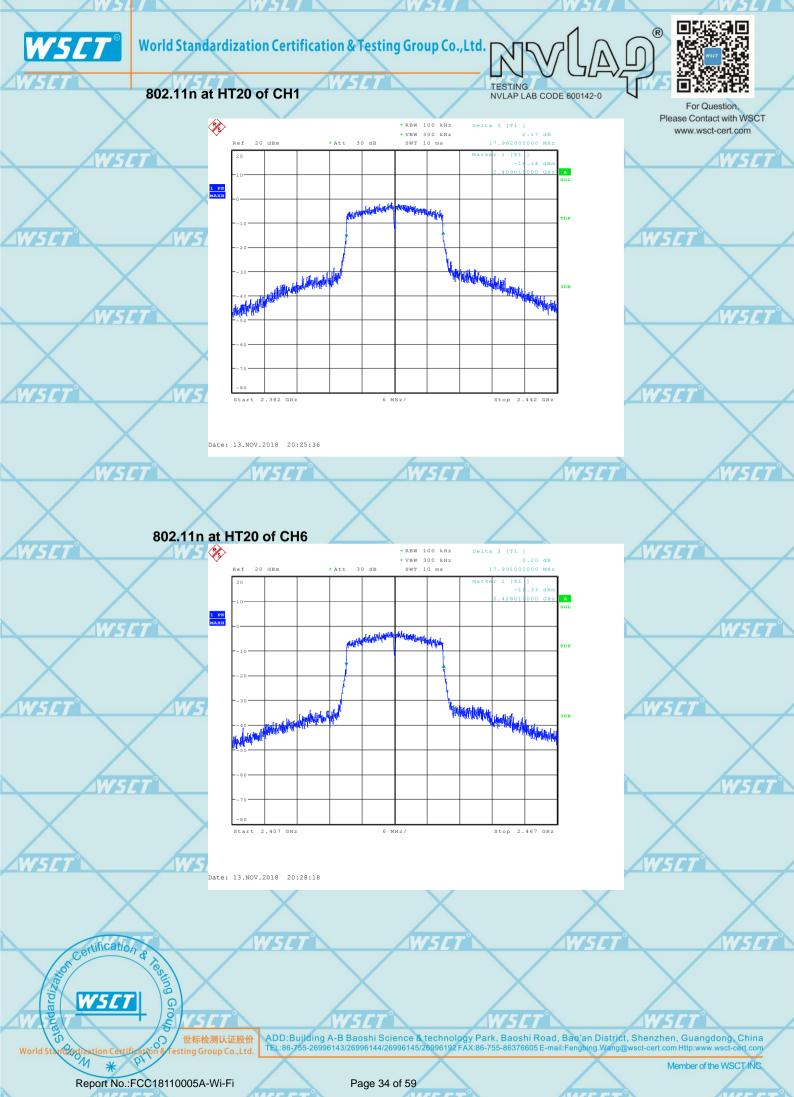
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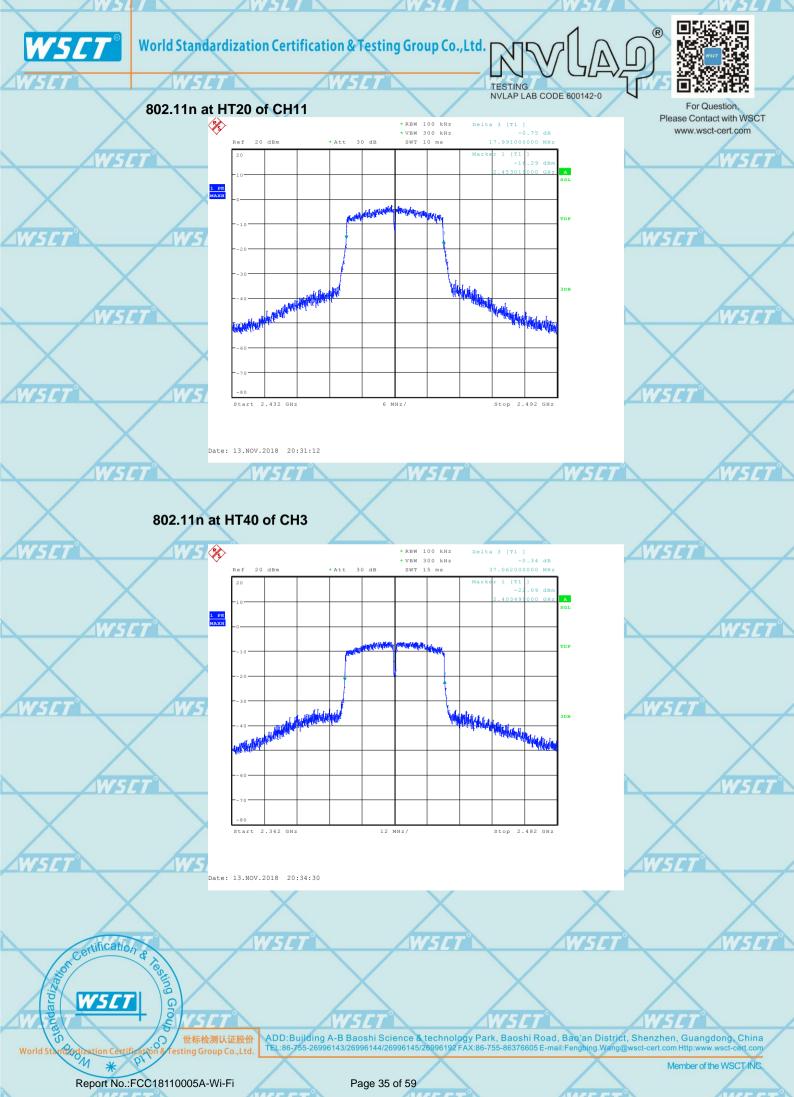
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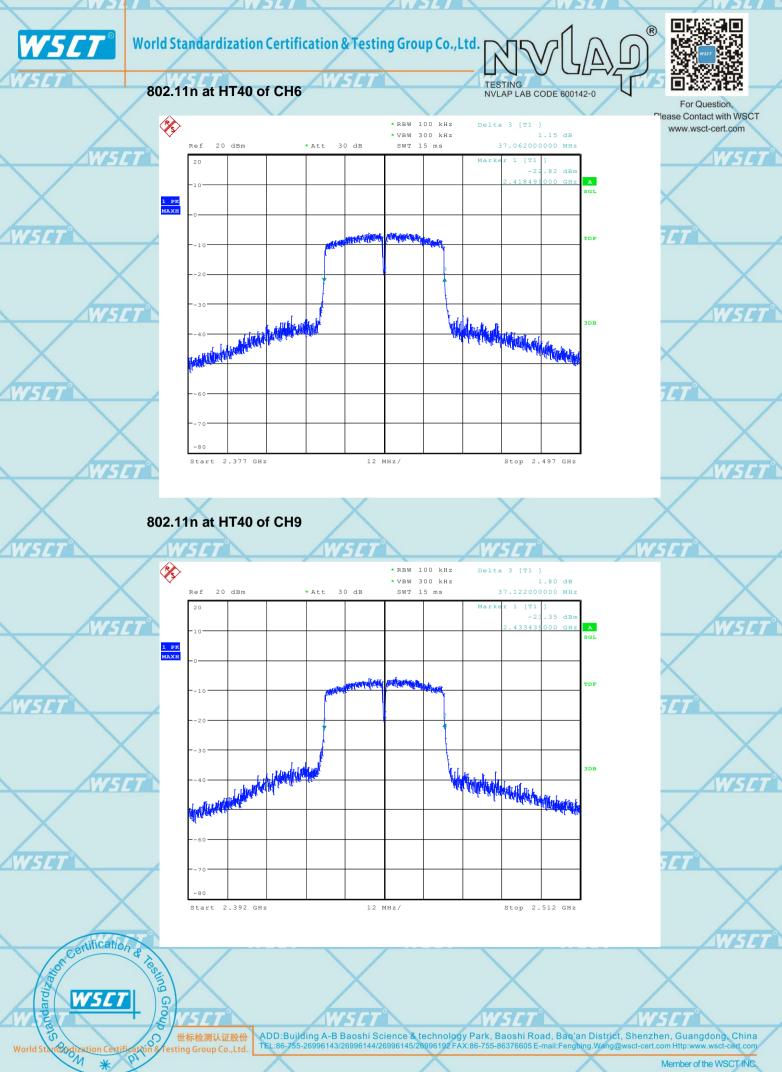
















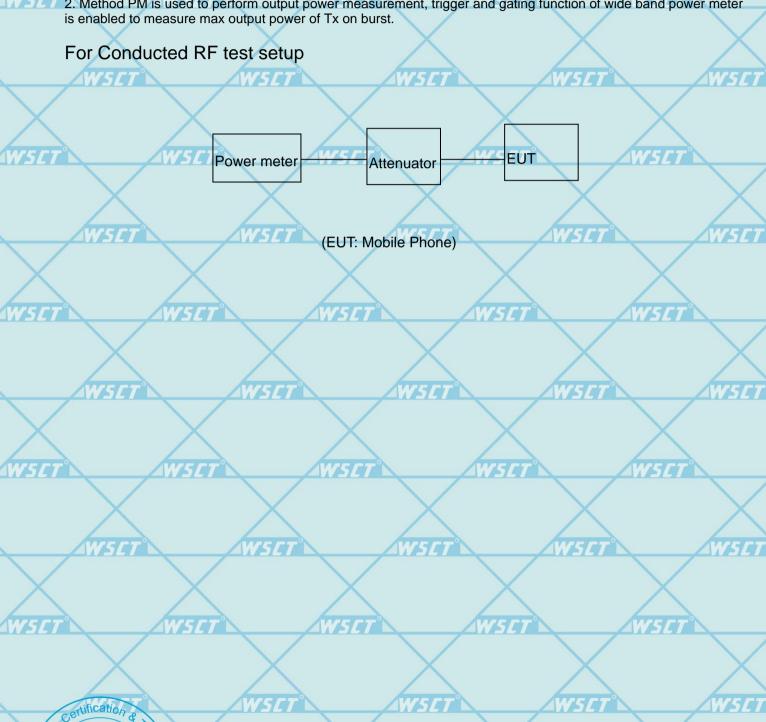
Please Contact with WSCT www.wsct-cert.com

8. MAXIMUM CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart C 15.247(b) Test Method: KDB 789033 D02 v01r04 Section E.3.a (Method PM) The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure:

- 1. Connected the EUT's antenna port to measure device by 10dB attenuator.
- 2. Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of Tx on burst.



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d. TESTING
NVLAP LAB CODE 600142-0



Test Data:

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WSET WSET

7		17171	124		IF19	
	Mode	Channel/	Maximum conducted	Limit(dBm)	Pass / Fail	
		Frequency	output			
°		(MHz)	power (dBm)			ý
			Meas Power			
	802.11b	1(2412)	18.09	30	Pass	
	WSET	6(2437)	18.37 W5C7	30	V5 Pass	
		11(2462)	18.20	30	Pass	
	802.11g	1(2412)	16.90	30	Pass	
	W	6(2437)	17.57	30	Pass W 5	ý
		11(2462)	17.68	30	Pass	
	802.11n(HT20)	1(2412)	17.52	30	Pass	
	WSET	6(2437)	17.56 WSF7	30	ver Pass	
7		11(2462)	17.49	30	Pass	
	802.11n	3(2422)	16.40	30	Pass	
0	(HT40)	6(2437)	16.27	30	Pass	3
		9(2452)	15.84	30	Pass	

	W5ET N	W5ET*	WSET	W5CT N	WSET
WSE	$\langle \hspace{0.1cm} \rangle$	T WSL	T WS	CT W	SET
	WSET	WSET	WSET	WSLT	WSET
WSG	$\langle \ \rangle$	$\langle \hspace{0.1cm} \rangle$			567
					X

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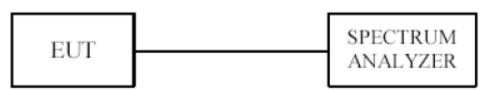




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9. POWER SPECTRAL DENSITY MEASUREMENT

9.1 TEST SETUP



<u>VSET°</u>

9.2 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 TEST PROCEDURE

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used todemonstrate compliance.
- 2. Set the RBW = 3 kHz.
- 3. Set the VBW =10 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11. The resulting peak PSD level must be < 8 dBm.

WSET

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NV(A)®



9.4 TEST RESULT

1	Mode	802.11b		Humidity	NVLAP LAB CODE 656%	
	Temperature	24 deg. C,				For Question, Please Contact with W
	Channel	Channel	Final RF	Power	Maximum Limit	Pass/ Fwail.wsct-cert.com
1		Frequency	Level in	(dBm)	(dBm)	
Ľ	ISET N	(MHz)		AWSET	W5	47 AY/5
			/ / 1	Mbps		
	1	2412	-15	.38	8	Pass
	6	2437	-15	.38	8	Pass
	11	2462	-15	.65	8	Pass

	Mode	802.11g	Hui	midity		56% RH		
2	Temperature	24 deg. C,	_					1
7	Channel	Channel	Final RF Po	wer	Maximum Lim	it' <i>5[[T</i> "]	Pass/ Fail	AV/
		Frequency	Level in (dB	Sm)	(dBm)			
		(MHz)						
			6Mbp	os				
	1	2412	-15.28		8		Pass	
	6	2437	-15.89		8		Pass	
1	/11	2462	-16.37		8		Pass	1

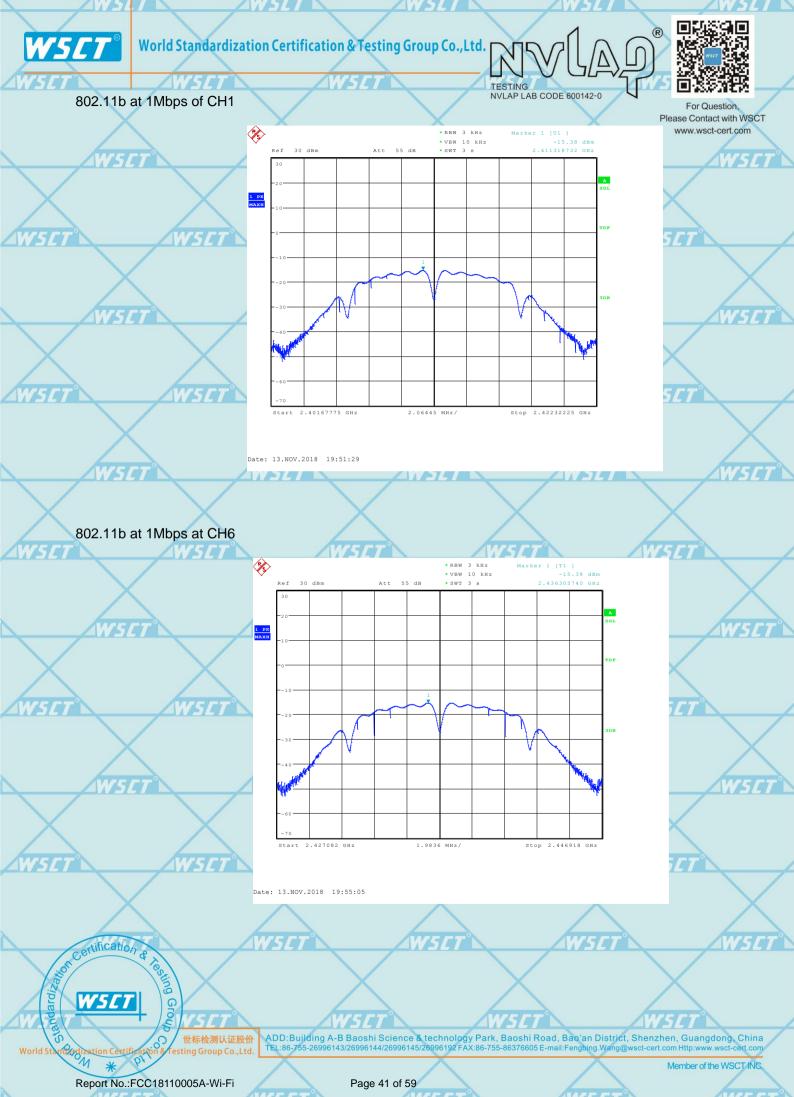
Mode	802.11n HT20	Humidity	56%	RH
Temperature	24 deg. C,			
Channel	Channel	Final RF Power	Maximum Limit	Pass/ Fail
	Frequency	Level in (dBm)	(dBm)	
	(MHz)			
A W.	14	6.5Mbps	WSET	WSET
1	2412	-15.58	8	Pass
6	2437	-15.92	8	Pass
11	2462	-16.61	8	Pass

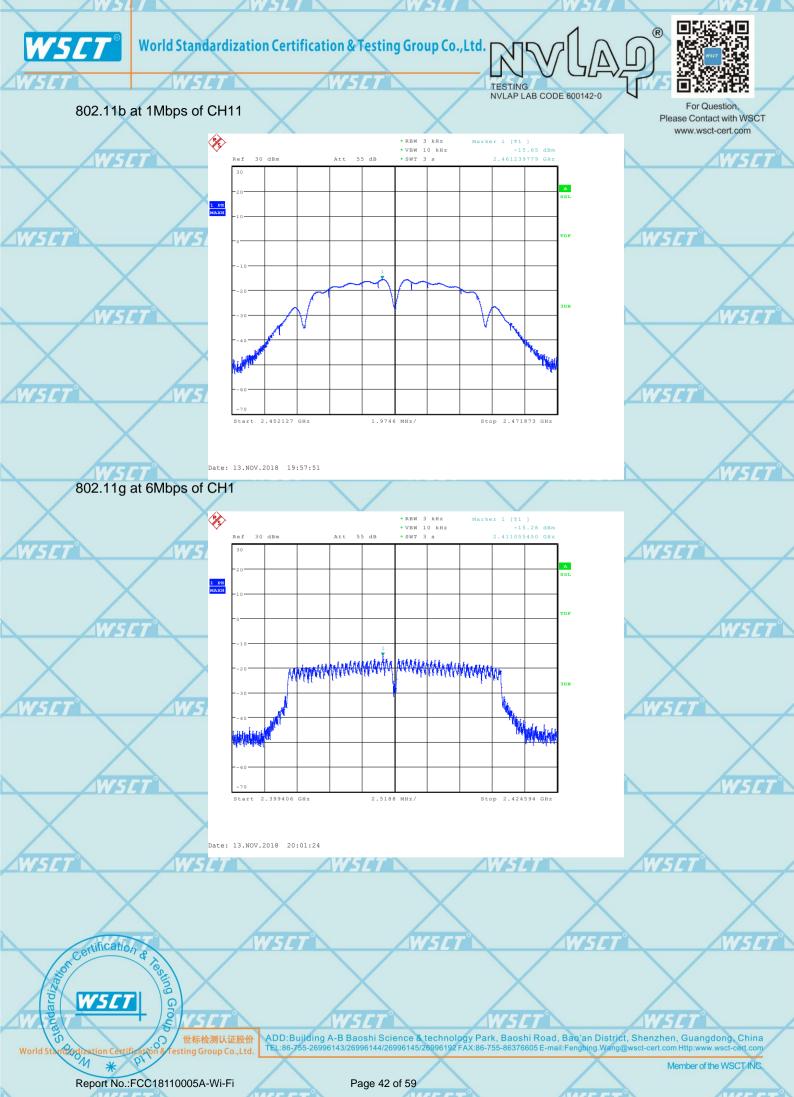
Mode	802.11n HT40		Humidity		56%	S RH
Temperature	24 deg. C,	X		X		X
Channel	Channel	Final RF	Power	Maximum Lir	nit	Pass/ Fail
/W	Frequency	Level in	(dBm)	(dBm)		WSCT
	(MHz)					
		13	3.5Mbps			
3	2422	-17	.62	8		Pass
6	2437	-19	.20	8	4	Pass
9	2452	-19	.56	8	W 5	Pass

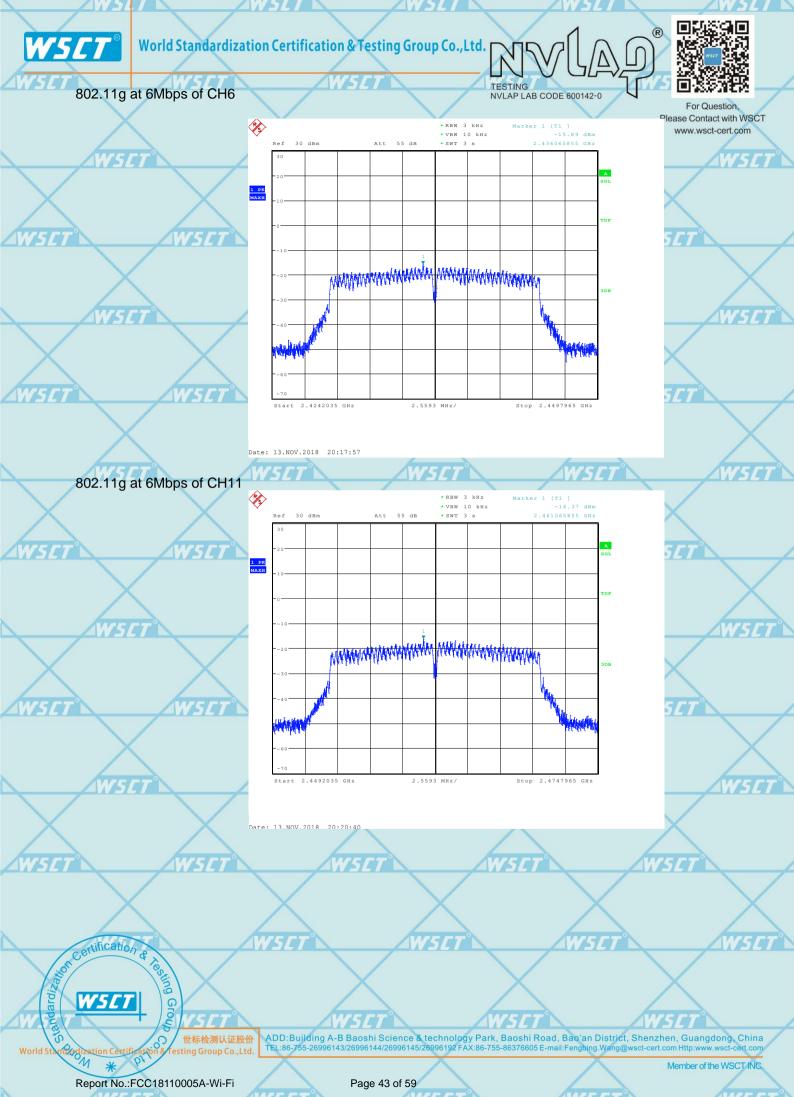
Remark: All of the modes have been investigated, and only worst mode is presented in this report.

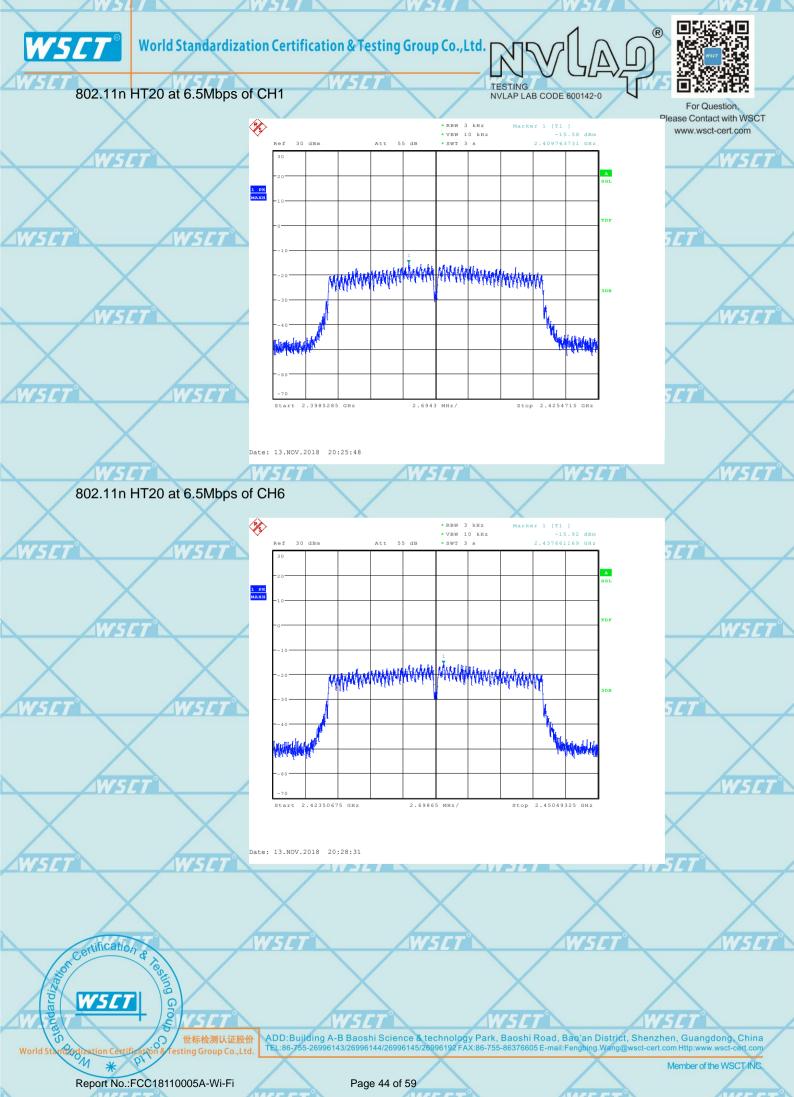


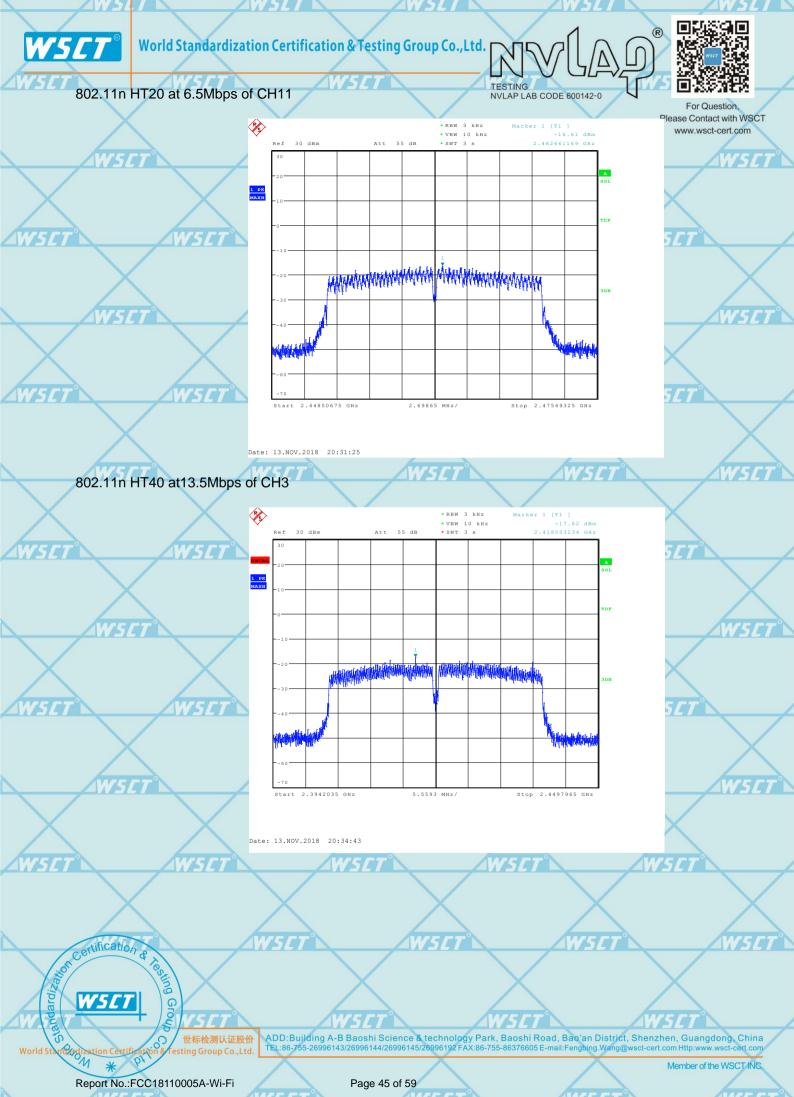
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d. NOTESTING

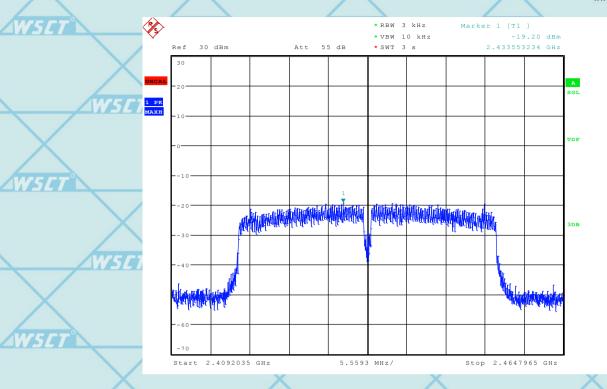
TESTING

NVLAP LAB CODE 600142-0

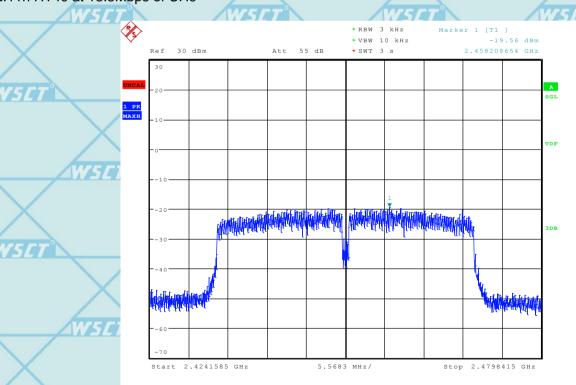


802.11n HT40 at 13.5Mbps of CH6

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802.11n HT40 at 13.5Mbps of CH9



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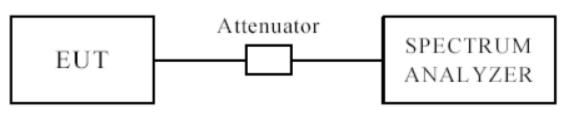




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10. OUT OF BAND MEASUREMENT

10.1 TEST SETUP FOR BAND EDGE



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 LIMITS OF OUT OF BAND EMISSIONS MEASUREMENT

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 TEST PROCEDURE

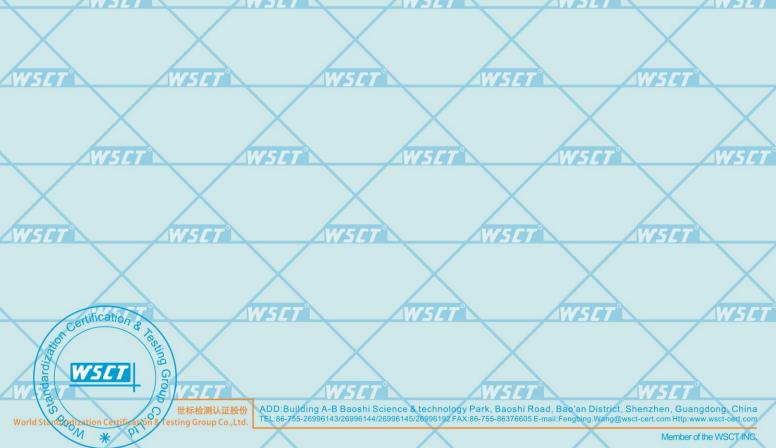
For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz,VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=100 kHz. A conducted measurement used

10.4 TEST RESULT

Please see next pages

Note: This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.





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Radiated measurement:

802.11b

Please Contact with WSCT www.wsct-cert.com

	Indicated			Antenna	Corre	ection Fa	ctor	FCC	Part 15.24	17
	Frequency (MHz)	Receiver Reading (dB _µ V/m)	result (PK/AV)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB _µ V/m)	Limit (dBμV/m)	Margin (dB)
7		WSI	7	Lo	ow Channel	(2412MH	z) wsc		AV.	
	2390	29.90	AV	V	30.3	4.1	33.1	31.20	54	22.80
	2390	29.47	AV	×н	30.3	4.1	33.1	30.77	54	23.23
	2390	41.26	PK	V	30.3	4.1	33.1	42.56	74	31.44
7	2390	41.64	PK	52 H	30.3	4.1	33.1	42.94	74	31.06
				Hi	gh Channel	(2462MH	lz)			
	2483.5	30.46	AV	V	31	4.4	32.7	33.16	54	30.46
7	2483.5	31.72	AV	Н_/	V 317	4.4	32.7	34.42	54//	31.72
	2483.5	40.36	PK	V	31	4.4	32.7	43.06	74	40.36
	2483.5	41.44	PK	×Η	31	4.4	32.7	44.14	74	41.44

802.11a

/	002.11g									
	Indicat	Indicated		Antenna	Correction Factor			FCC Part 15.247		
7	Frequency (MHz)	Receiver Reading (dB _µ V/m)	result (PK/AV)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB _µ V/m)	Limit (dBμV/m)	Margin (dB)
	Low Channel (2412MHz)									
	2390	34.21	AV	- V	30.3	4.1	33.1	35.51	54	18.49
	2390	33.72	AV	Н	30.3	4.1	33.1	35.02	54	18.98
	2390	51.53	PK	V	30.3	4.1	33.1	52.83	74	21.17
	2390	50.41	PK	Н	30.3	4.1	33.1	51.71	74	22.29
7		ZW50		Hi	gh Channel	(2462MH	z) 4754			194
	2483.5	31.29	AV	V	31	4.4	32.7	33.99	54	20.01
	2483.5	29.87	AV	H	31	4.4	32.7	32.57	54	21.43
	2483.5	40.74	PK	5LV°	31	4.4.7	32.7	43.44	74	30.56
1	2483.5	39.36	PK	Н	31	4.4	32.7	42.06	74	31.94
	Note: The D	VNID EDC		DICTED D	ANDS omice	sion is too	LOW of Logo	+ 20dD to th	oo Eundom	ontol

Note: The BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.



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802.11n HT20

For Question,

	002.11111112	.0							PI	ease Contact	with WSC
	Indicated			Antenna	Corre	ection Fa	ctor	FCC	Part 15.24		ert.com
	I – radijancv	Receiver Reading (dB _µ V/m)	result (PK/AV)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB _µ V/m)	Limit (dBµV/m)	Margin (dB)	V5L
				Low Channel (2412MHz)							
7	2390	33.57	AV	V	30.3	4.1	33.1	34.87	54//5	19.13	
	2390	33.40	AV	Æ	30.3	4.1	33.1	34.70	54	19.30	
	2390	49.58	PK	V	30.3	4.1	33.1	50.88	74	23.12	X
	2390	50.89	PK	32H	30.3	4.1	33.1	52.19	74	21.81	V5/
/				Hi	gh Channel	(2462MH	z)				
	2483.5	29.64	AV	V	31	4.4	32.7	32.34	54	21.66	
	2483.5	29.85	AV	Н	31	4.4	32.7	32.55	54	21.45	
I	2483.5	41.11	PK	V	31	4.4	32.7	43.81	74	30.19	
	2483.5	42.00	PK	H	31	4.4	32.7	44.70	74	29.30	

802.11n HT40

002.1111111									
Indicated			Antenna	Corre	ection Fa	ctor	FCC Part 15.247		
Fraguancy		result	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
			Lo	w Channel	(2422MH	z)			
2390	36.75	AV	V	30.3	4.1	33.1	38.05	54	15.95
2390	37.54	AVV	SEH N	30.3	W4.1.7	33.1	38.84	54	15.16
2390	53.00	PK	V	30.3	4.1	33.1	54.30	74	19.70
2390	55.11	PK	Н	30.3	4.1	33.1	56.41	74	17.59
2	Aug		Hi	gh Channel	(2452MH	z)		- Avy	
2483.5	31.42	AV	V	31	4.4	32.7	34.12	54	19.88
2483.5	32.59	AV	H	31	4.4	32.7	35.29	54	18.71
2483.5	46.87	PK	V	31	4.4	32.7	49.57	74	24.43
2483.5	45.42	PK	5/H	31	4.4	32.7	48.12	74	25.88
	2390 2390 2390 2390 2390 2483.5 2483.5 2483.5	Frequency (MHz) Receiver Reading dBμV/m) 2390 36.75 2390 37.54 2390 53.00 2390 55.11 2483.5 31.42 2483.5 32.59 2483.5 46.87 2483.5 45.42	Indicated Frequency (MHz) Receiver Reading (BμV/m) Receiver Readin	Indicated Receiver Reading (MHz) Resolver Reading (BμV/m) Resolver Reading (H/V) Resolver (H/V)	Indicated Receiver (PK/AV) Polar (H/V) Antenna Polar (H/V) Factor (dB/m)	Indicated Frequency (MHz) Receiver Reading (dBμV/m) Receiver (H/V) Receiver (H/V) Receiver (H/V) Reading (dBμV/m) Receiver (H/V) Reading (dB/m) Receiver (H/V) Receiver (H/V) Reading (dB/m) Receiver (H/V) Reading (dB/m) Receiver (H/V) Receiver (H	Indicated Frequency (MHz) Receiver Reading (dBμV/m) Receiver Reading (dBμV/m) Receiver Reading (dBμV/m) Receiver Reading (dBμV/m) Receiver Reading (dB/m) Receiver (dB/m) Rec	Indicated Frequency (MHz) Receiver Reading (dB μV/m) Receiver Rea	Indicated Frequency (MHz) Receiver Reading (BμV/m) Receiver Readin

Note: The BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

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