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# **TEST REPORT**

FCC ID: 2AIZN-X6511E

**Product: Mobile Phone** 

Model No.: X6511E

Additional Model No.: N/A

Trade Mark: Infinix

Report No.: WSCT-A2LA-R&E211100558A-Wi-Fi

Issued Date: 10 December 2021

Issued for:

INFINIX MOBILITY LIMITED

FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

Issued By:

WORLD STANDARDIZATION CERTIFICATION & TESTING GROUP (SHENZHEN) CO., LTD.

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Note: In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with A2LA's ENERGY STAR ® Accreditation Program requirements 1) accreditation is granted to this laboratory to perform the following tests: EMC, electromagnetic compatibility, telecommunications and Energy Star.

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**Table of Contents** 





Certificate Number 5768.01



Report No.: WSCT-A2LA-R&E211100558A-Wi-Fi

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# Page

1. GENERAL INFORMATION	3
1.1. GENERAL DESCRIPTION OF EUT	W45
1.2. FACILITIES AND ACCREDITATIONS	5
2. TEST DESCRIPTION	6
2.1 MEASUREMENT UNCERTAINTY	6
W 2.2 DESCRIPTION OF TEST MODES W577 W577	7 W5ET
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	8
2.4 CONFIGURATION OF SYSTEM UNDER TEST	8
2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)	8
W5/57 3. SUMMARY OF TEST RESULTS W5/57	W65ET
4. MEASUREMENT INSTRUMENTS	10
5. EMC EMISSION TEST	11
5.1 CONDUCTED EMISSION MEASUREMENT	11 W.5 - 1
5.2 RADIATED EMISSION MEASUREMENT	15
6. ANTENNA APPLICATION	28
7. 6DB BANDWIDTH MEASUREMENT	29 7
7.1 TEST SETUP	29
7.2 LIMITS OF 6DB BANDWIDTH MEASUREMENT 7.3 TEST PROCEDURE	29 29
7.3 TEST PROCEDURE W-7.4 TEST RESULT W5.57 W5.57 W5.57	29 W5E1
8. MAXIMUM CONDUCTED OUTPUT POWER	38
9. POWER SPECTRAL DENSITY MEASUREMENT	40
9.1 TEST SETUP	40
9.2 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT 9.3 TEST PROCEDURE	40 40
9.4 TEST RESULT	41
10. OUT OF BAND MEASUREMENT W5 W5	48 W5C1
10.1 TEST SETUP FOR BAND EDGE	48
10.2 LIMITS OF OUT OF BAND EMISSIONS MEASUREMENT	48
10.3 TEST PROCEDURE 10.4 TEST RESULT	48 48
10.4 IEST RESULT	40



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Report No.: WSCT-A2LA-R&E211100558A-Wi-Fi

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# 1. GENERAL INFORMATION

	DESCRIPTION OF STREET	
	Product:	Mobile Phone
	Model No.:	X6511E
	Additional	N/A
	Model:	WSET WSET
	Applicant:	INFINIX MOBILITY LIMITED
	Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI
		STREET FOTAN NT
ı	Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
7	Address:	101,Building 24,Waijing Industrial Park,Fumin Community,Fucheng Street,Longhua District,Shenzhen City,P.R.China
	Data of receipt	19 November 2021
	Date of Test:	19 November 2021 to 09 December 2021
	Applicable Standards:	FCC Rules Part15 Subpart C.
	THE RESERVE OF THE PARTY OF THE	

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: \_\_\_\_\_\_ ( Wang Xiang)

(Wang Fengbing)

Check By: u Sh

(Pu Shixi)

Approved By:

Date:

to December 202



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# 1.1. GENERAL DESCRIPTION OF EUT

	Equipment Type:	Mobile Phone
	Test Model:	X6511E
	Additional Model:	N/A
	Trade Mark	Infinix
_	Hardware version:	V1.0 WSET WSET
	version:	N/A
	Extreme Temp. Tolerance:	-10°C to +65°C W5ET W5ET W5ET
	Battery information:	Li-ion Battery :BL-49FX Rated Voltage: 3.85V Rated Capacity:4900mAh/18.86Wh Typical Capacity:5000mAh/19.25Wh Limited Charge Voltage: 4.40 V
	Adapter Information:	Adapter:U100XSA Input: AC100-240V 50/60Hz 0.3A Output: DC 5.0V 2.0A
	Operating Frequency	2412-2472MHz
	Channels	11
_	Channel Spacing	5MHz W5ET W5ET
	Modulation Type	CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40
	Antenna Type:	Integral Antenna
	Antenna gain:	1.2dBi
	Deviation	None
_	Condition of Test Sample	Normal W5CT W5CT

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# 1.2. FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the WORLD STANDARDIZATION CERTIFICATION & TESTING GROUP (SHENZHEN) 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."

1.2.1. ACCREDITATIONS

China National Accreditation Service for Conformity Assessment (CNAS)

Registration number NO: L3732

American Association for Laboratory Accreditation(A2LA)

Registration NO: 5768.01

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

http://www.wsct-cert.com

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			X	X	$\times$
WSET	WSET	SET <sup>®</sup> WSET	WSLT	WSET	WSET
		5/47	WSLT	WSET	WSE
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		527	WSLT	WSET	WSE
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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 **k=2**, providing a level of confidence of

approximately 40%	ately <b>95</b> %	SET WSET	WSET	WSET
	No.	Item	Uncertainty	
	1	Conducted Emission Test	±3.2dB	
W.5	2	RF power, conducted	±0.16dB W5ET	WSET
	3	Spurious emissions, conducted	±0.21dB	
	4	All emissions, radiated(<1G)	±4.7dB	
WSET	5 W	All emissions, radiated(>1G)	±4.7dB//5/7	WSET
	6	Temperature	±0.5°C	
	7	Humidity	±2%	
W5	ET	WSET	WSET	WSET
	/			
WSET	W	SCT WSCT	W5ET*	WSCT
W5	ET L	WSET WS	CT WSCI	WSET
	/			
WSET	W	SET WSET	WSET	WSET
W 5	ET"	WSET WS	WSC1	WSCT
		$\checkmark$		
W5LT	W	SET WSET	WSET	WSET
satincation & Te	sting	W5LT WS	WSEI	WSCI
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### 2.2 DESCRIPTION OF TEST MODES

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

			_
	Pretest Mode	Description	
)	Mode 1	802.11b	
5	Mode 2	802.11g	
	Mode 3	802.11n20	
	Mode 4	802.11n40	

	For Conducted Emission	
Final Test Mode	Description	
Mode 1	802.11b	

For Radiated Emission				
Final Test Mode Description				
Mode 1	802.11b			
Mode 2	802.11g			
Mode 3	802.11n20			
Mode 4	802.11n40 W577			

#### 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%

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#### 2.3 TABLE OF PARAMETERS OF TEXT 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 FHSS

Test software Version	W5LT N/A W5LT
Test program	*#*#9646633#*#*

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

**AC Mains USB** Cable **EUT** Adapter

(EUT: Mobile Phone)

I/O Port of EUT					
I/O Port Type	Q'TY	Q'TY Cable			
USB port	1/	1m USB cable, unshielded	1		
Power	WSCT	1m	WSCT		

# 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	77774	U100XSA		ZW/5LI
2	///	///	N/A		/

#### Note:

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

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Certificate Number 5768.01



Report No.: WSCT-A2LA-R&E211100558A-Wi-Fi

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# 3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	717724			711724
		FCC Part15 (15.247), Subpart (		
	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	PASS	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 Restricted band limit: Table 15.209	PASS	Complies

NOTE:

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

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AWSET

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4W5ET

WSE7

AWSE1

WSET

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# 4. MEASUREMENT INSTRUMENTS

_						
0	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibratio n Due.
	EMI Test Receiver	R&S	ESCI	100005	2021-11-05	2022-11-04
	LISN	AFJ	LS16	16010222119	2021-11-05	2022-11-04
	LISN(EUT)	Mestec	AN3016	04/10040	2021-11-05	2022-11-04
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	2021-11-05	2022-11-04
	Coaxial cable	Megalon	LMR400	N/A	2021-11-05	2022-11-04
Z	GPIB cable	Megalon	5CT <sub>GPIB</sub>	VN/A	2021-11-05	2022-11-04
	Spectrum Analyzer	R&S	FSU	100114	2021-11-05	2022-11-04
	Pre Amplifier	H.P.	HP8447E	2945A02715	2021-11-05	2022-11-04
7	Pre-Amplifier	CDSI	PAP-1G18-38		2021-11-05	2022-11-04
	Bi-log Antenna	SUNOL Sciences	JB3	A021907	2021-11-05	2022-11-04
0	9*6*6 Anechoic	- 4	-		2021-11-05	2022-11-04
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	WSU	2021-11-05	2022-11-04
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	2021-11-05	2022-11-04
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	2021-11-05	2022-11-04
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R
	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R
	Antenna Tower	ccs	5N/A	N/A	N.C.R	N.C.R
	RF cable	Murata	MXHQ87WA3000	_	2021-11-05	2022-11-04
	Loop Antenna	EMCO	6502	00042960	2021-11-05	2022-11-04
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	2021-11-05	2022-11-04
	Power meter	Anritsu	ML2487A	6K00003613	2021-11-05	2022-11-04
	Power sensor	Anritsu	MX248XD		2021-11-05	2022-11-04
0				A CONTRACTOR OF THE PARTY OF TH		







Certificate Number 5768.01



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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 (dBµV)		μV)
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

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency ///5/27	W 530 MHz W5CT
IF Bandwidth	9 kHz

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Certificate Number 5768 01



Report No.: WSCT-A2LA-R&E211100558A-Wi-Fi

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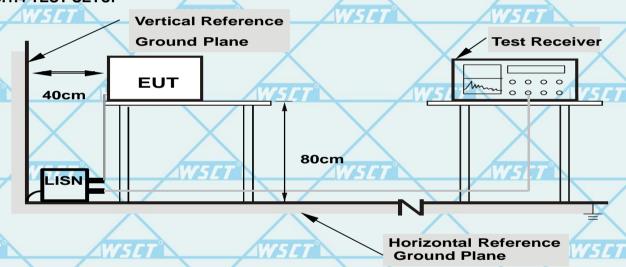
# **5.1.2 TEST PROCEDURE**

- 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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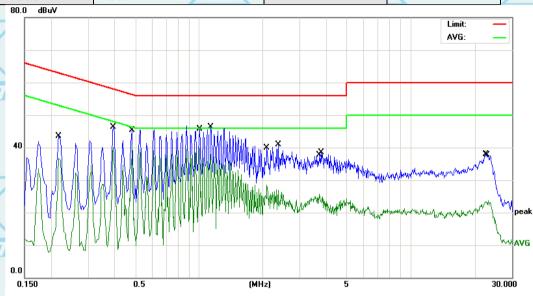


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# 5.1.6 TEST RESULTS

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Temperature	26 ℃		Relative Humidity	54%
Pressure	1010hPa	X	Phase	L
Test Mode	Mode 1			



_										
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		_
-			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
	1		0.2180	33.14	10.41	43.55	62.89	-19.34	QP	
7	2		0.2180	26.22	10.41	36.63	52.89	-16.26	AVG	
•	3		0.3940	35.91	10.45	46.36	57.98	-11.62	QP	
ľ	4	*	0.4820	30.21	10.47	40.68	46.30	-5.62	AVG	
ľ	5		1.0100	29.32	10.51	39.83	46.00	-6.17	AVG	_
	6		1.1380	35.68	10.53	46.21	56.00	-9.79	QP	
	7		2.0980	17.92	10.66	28.58	46.00	-17.42	AVG	_
2	8		2.3620	30.18	10.66	40.84	56.00	-15.16	QP	
	9		3.7020	15.10	10.68	25.78	46.00	-20.22	AVG	
ľ	10		3.7780	27.86	10.68	38.54	56.00	-17.46	QP	_
ľ	11		22.5700	26.95	11.01	37.96	60.00	-22.04	QP	_
,	12		23.2580	12.63	11.00	23.63	50.00	-26.37	AVG	

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









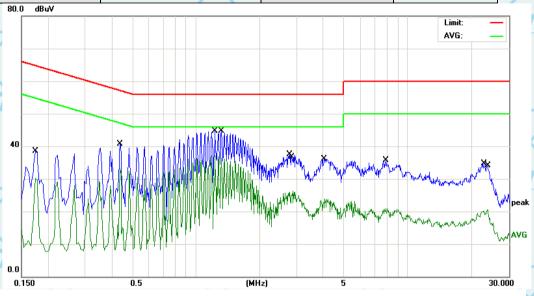
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	C C			O C		
4	Temperature	26 ℃	-	Relative Humidity	54%	Ę
	Pressure	1010hPa		Phase	N	
	Test Mode	Mode 1				



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1740	28.09	10.41	38.50	64.76	-26.26	QP
<u></u>	2		0.1740	19.81	10.41	30.22	54.76	-24.54	AVG
_	3		0.4380	30.32	10.46	40.78	57.10	-16.32	QP
	4		0.4380	22.70	10.46	33.16	47.10	-13.94	AVG
	5	*	1.2300	26.65	10.54	37.19	46.00	-8.81	AVG
,	6		1.3220	34.16	10.56	44.72	56.00	-11.28	QP
	7		2.7700	26.92	10.67	37.59	56.00	-18.41	QP
Ľ	8		2.8620	15.58	10.67	26.25	46.00	-19.75	AVG
	9		4.0580	13.17	10.68	23.85	46.00	-22.15	AVG
	10		7.8540	24.93	10.75	35.68	60.00	-24.32	QP
	11		22.8819	23.68	11.01	34.69	60.00	-25.31	QP
/	12		23.8380	9.50	11.00	20.50	50.00	-29.50	AVG

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











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# **5.2 RADIATED EMISSION MEASUREMENT**

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

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

1	Frequencies	Field Strength	Measurement Distance
	(MHz)	(micorvolts/meter)	(meters)
_	0.009~0.490	2400/F(KHz)	300
Ľ	0.490~1.705	24000/F(KHz)	30
	1.705~30.0	30	30
	30~88	100	3
_	88~216	150	W5[7] 3 W
	216~960	200	3
	Above 960	500	3

# 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).

9	Spectrum Parameter	Setting	
	Attenuation	Auto	
	Start Frequency	1000 MHz	
	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





Certificate Number 5768 01



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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

No deviation	WSE	WS	77	WSET
WSET	WSET	WSET	WSET	WSET
WSGT	Wist	T WIS	TT .	WSET
W5CT*	WSET	WSCT	WSET	WSET
WSGT	WISE	T WS	TT .	WSCT
otion & Tesm	WSET	WSET	WSET	WSCI
Stiff WSCT Stiff Gould Street	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$			$\times$

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Certificate Number 5768.01

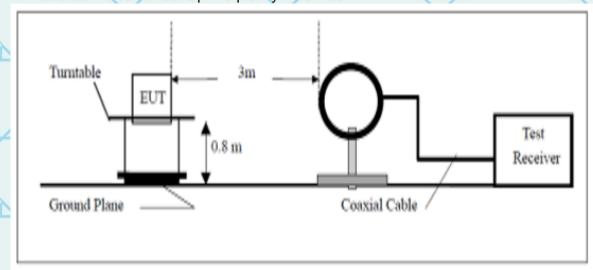


Report No.: WSCT-A2LA-R&E211100558A-Wi-Fi

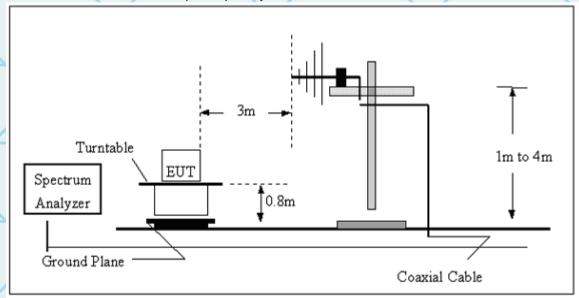
# For Question, Please Contact with WSCT www.wsct-cert.com

# **5.2.4 TEST SETUP**

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



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



WSET WSET WSET WSET

WSET Sherzy

WSCT





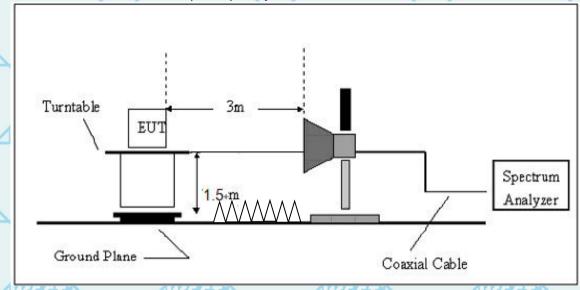
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# (C) Radiated Emission Test-Up Frequency Above 1GHz



# 5.2.5 EUT OPERATING CONDITIONS

MON \* PT

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.









Report No.: WSCT-A2LA-R&E211100558A-Wi-Fi

# 5.2.5.1 RESULTS (Below 30 MHz)

For Question, Please Contact with WSCT www.wsct-cert.com

Temperature	20	$^{\circ}$ C	$\bigvee$	Relative	Humidity	48%	$\bigvee$	
Pressure	101	0 hPa		Test Mod	de	Mode 1		

-13					
	Freq.	Reading	Limit	Margin	State
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
	WSPT	NVS CT	NVSET	145	P
_				-	Р

NOTE:

taxolzation Certifican

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.

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

WSET	WSET	WSET	WSI	7	507
	SET W	SET .	WSLT	WSLT	WSCI
WSET	WSLT	WSET	WSU	7	SET
		507	WSLT	WSET	WSCI
WSET	WSET	WSET	WSU		SET
		517	WSET	WSET	WSEI
sylfication &	Sans Ca				

Page 19 of 64

ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992306 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com

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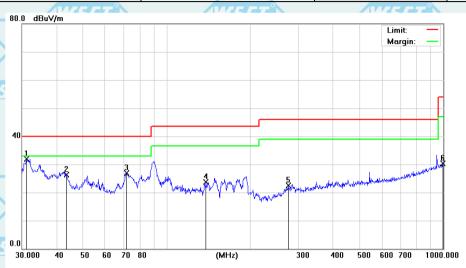


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# 5.2.5.2 TEST RESULTS (Between 30M - 1000 MHz)

Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa	Polarization:	Horizontal
Test Mode	Mode 1		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	11
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	* /3	31.1798	27.64	4.34	31.98	40.00	-8.02	QP
2	11/	13.5057	27.79	-1.45	26.34	40.00	-13.66	QP
3	7	71.8320	33.90	-7.03	26.87	40.00	-13.13	QP
4	13	38.8735	27.99	-4.23	23.76	43.50	-19.74	QP
<b>4</b> 5	27	75.1570	25.94	-3.44	22.50	46.00	-23.50	QP
6	99	96.4996	23.05	7.25	30.30	54.00	-23.70	QP

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









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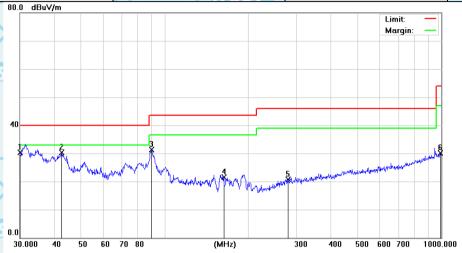


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# WSET WSET WS

Temperature	20 ℃	$\overline{}$	Relative Humidity	48%	
Pressure	1010 hPa		Polarization :	Vertical	
Test Mode	Mode 1	VSET			VSET"



	T. T.	N A	Reading	Correct	Measure-		Ann	733
	No.	Mk. Freq.	Level	Factor	ment	Limit	Over	
7.		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	30.0000	25.51	4.79	30.30	40.00	-9.70	QP
	2	* 42.4508	31.44	-1.04	30.40	40.00	-9.60	QP
	3	89.9047	37.14	-5.92	31.22	43.50	-12.28	QP
\	4	163.7550	27.53	-6.04	21.49	43.50	-22.01	QP
/	<b>L</b> 5	279.0436	24.04	-3.26	20.78	46.00	-25.22	QP
Z	6	993.0114	22.99	7.19	30.18	54.00	-23.82	QP
		_		_				

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



WSET WSET

ET WSET

WSE WSE





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# 5.2.5.3 TEST RESULTS (1GHz to 25GHz)

Temperature	<b>20</b> ℃		Relative Humidity	48%
Pressure	1010 hPa	X	Test Mode	Mode 1 TX
Frequency	2412MHz	VCC-		AVIII CO

Freq.	Ant.	Emission		Limit		Over(dB)	
(MHz)	Pol.	Level(dBuV)		3m(dBu)	V/m)	X	
	H/V	PK	AV	PK	AV	PK	AV
4824	V	60.38	39.61	74	54	-13.62	-14.39
7236	V	59.66	39.42	74	54	-14.34	-14.58
4824	XH	59.42	40.63	74	54	-14.58	-13.37
7236	H	59.31	40.31	74	54	-14.69	-13.69

#### 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	<b>20</b> ℃	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	2437MHz		

	Freq.	Ant.Pol.	Emission Level(dBuV		Limit		Over(dB)		
4	(MHz)				3m(dB	luV/m)			
		H/V	PK	AV	PK	AV	PK	AV	
	4874	V	60.39	41.01	74	54	-13.61	-12.99	
	7311	V	59.55	39.38	74	54	-14.45	-14.62	
	4874	25/H	59.20	40.19	74	54	-14.80	-13.81	
	7311	Н	58.59	39.59	74	54	-15.41	-14.41	

#### 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.









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Temperature	20 °C W5[7"	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	2462MHz		X

1	Freq.	Ant.Pol.	Emission	Level(dBuV	Lir	nit -	Ove	r(dB)
	(MHz)				3m(dBuV/m)			
	X	H/V	PK	AV	PK	AV	PK	AV
	4924	V	58.34	41.25	74	54	-15.66	-12.75
1	7386	V	59.73	40.72	74	54	-14.27	-13.28
	4924	H	58.66	39.01	74	54	-15.34	-14.99
	7386	×Η	59.33	40.33	74	54	-14.67	-13.67

#### 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.

						1
1	Temperature	<b>20</b> ℃		Relative Humidity	48%	
	Pressure	1010 hPa	X	Test Mode	Mode2 TX	
	Frequency	2412MHz				

Freq.	Ant. Pol.	Emission		Limit 3m(dBuV/m)		Over(dB)	
(MHz)		Level(dBuV)		X		X	
	H/V	PK	AV	PK	AV	PK	AV
4824	V	60.93	41.43	v 5 / 74°	54	-13.07	-12.57
7236	V	59.87	40.31	74	54	-14.13	-13.69
4824	Á	59.95	40.74	74	54	-14.05	-13.26
7236	¥	58.49	39.49	74	54	-15.51	-14.51

# 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.

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4	Temperature	<b>20</b> ℃	Relative Humidity	48%
	Pressure	1010 hPa	Test Mode	Mode 2 TX
_	Frequency	2437MHz		Nuclear Name of the Control of the C

Freq.	Ant.Pol.	Emission I	_evel(dBuV	Limit		Over(dB)	
(MHz)				3m(dBuV/m)			
WELT	H/V PK AV		PK	AV	PK	AV	
4874	V	59.33	40.03	74	54	-14.67	-13.97
7311	V	59.19	39.68	74	54	-14.81	-14.32
4874	H	59.34	39.47	74	54	-14.66	-14.53
7311	Ĥ	58.54	39.54	74	54	-15.46	-14.46

#### 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	<b>20</b> ℃	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2 TX
Frequency	2462MHz		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
(1411 12)	H/V	PK	AV	PK	AV	PK	AV
4924	V	58.13	41.95	74	54	-15.87	-12.05
7386	V	59.73	40.24	74 🚄	54	-14.27	-13.76
4924	MACH	58.98	40.97	74	54	-15.02	-13.03
7386	Н	59.40	40.40	74	54	-14.60	-13.60

# 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.











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7	Temperature	20 ℃	Relative Humidity 48%
	Pressure	1010 hPa	Test Mode Mode3 TX
	Frequency	2412MHz	

	Freq.	Ant. Pol.	Emission		Limit		Over(dB)	
	(MHz)	De	Level(dBuV)		3m(dBuV/m)			
	WSET	H/V	PK	AV	PK	AV	PK	AV
	4824	V	60.49	41.98	74	54	-13.51	-12.02
	7236	V	58.18	39.40	74	54	-15.82	-14.60
	4824	¥	59.18	40.64	74	54	-14.82	-13.36
0	7236	1	59.29	40.29	74	54	-14.71	-13.71

#### 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 W

Temperature	<b>20</b> ℃	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3 TX
Frequency	2437MHz		

Freq.	Ant.Pol.	Emission Level(dBuV)				Over(dB)		
(MHz)					3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV	
4874	V	58.53	39.90	74	54	-15.47	-14.10	
7311	V	58.36	39.77	74	54	-15.64	-14.23	
4874	Η/	58.38	40.04	74	54	-15.62	-13.96	
7311	H	59.82	40.82	74	54	-14.18	-13.18	

#### 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.



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Temperature	20 ℃	$\vee$	Relative Humidity	48%
Pressure	1010 hPa		Test Mode	Mode 3 TX
Frequency	2462MHz	WSET N		WSET

	Freq.	Ant.Pol.	Emission	Level(dBuV)	X Li			r(dB)	
	(MHz)					3m(dBuV/m)			
1	W5CT	H/V/	/5/PK	AV //	PK	AV	V PK	AV	
	4924	V	60.74	40.83	74	54	-13.26	-13.17	
	7386	V	59.59	40.92	74	54	-14.41	-13.08	
	4924	Ŧ	58.83	39.05	74	54	-15.17	-14.95	
	7386	re e H	59.00	40.00	74	54	-15.00	-14.00	

# 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	48%
Pressure	1010 hPa	Test Mode	Mode4 TX
Frequency	2422MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4844	V	59.12	41.31	74	54	-14.88	-12.69
7266	>	59.35	40.68	74	54	-14.65	-13.32
4844	V5 H	58.85	39.77	74	54	-15.15	-14.23
7266	Н	58.26	39.26	74	54	-15.74	-14.74

### 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.









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	AUG-F-T	MACET			WE-FET \
1	Temperature	<b>20</b> ℃		Relative Humidity	48%
	Pressure	1010 hPa	X	Test Mode	Mode 4 TX
_	Frequency	2437MHz	7777		WEET

Freq.	Ant.Pol.	Emission	Level(dBuV)	Limit		Over(dB)	
(MHz)				3m(dBuV/m)			
WELL	H/V	PK	AV	PK	AV	PK	AV
4874	V	60.93	40.39	74	54	-13.07	-13.61
7311	V	59.27	40.94	74	54	-14.73	-13.06
4874	H	58.90	39.70	74	54	-15.10	-14.30
7311	Ĥ	58.08	39.08	74	54	-15.92	-14.92

### 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	48%
Pressure	1010 hPa	Test Mode	Mode 4 TX
Frequency	2452MHz		

	Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
4	(IVITZ)				SIII(UE	ou v/III)		
		H/V	PK	AV	PK	AV	PK	AV
	4904	V	59.15	39.05	74	54	-14.85	-14.95
	7356	>	58.65	40.32	74	54	-15.35	-13.68
	4904	VSCH	58.49	39.70	74	54	-15.51	-14.30
	7356	Н	59.10	40.10	74	54	-14.90	-13.90

# 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.











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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

MOM \* PIT

The FUT's antenna Integral Antenna. The antenna's gain is 1 2dRi and meets the requirement

The EUT's antenna Integral Ar			
WSET WSET	WSET	WSET	WSET*
	$\vee$		
	$\wedge$		
WSET	VSET WSET	WSCT	WSET
X	X	X	X
WSET WSET	WSET®	WSET	WSET
	$\vee$		
	$\wedge$		
WSET	VSCT WSCT	WSET	WSET
X	X	X	X
WSET	WSET	WSET	WSET
WE THE TENER OF TH	Wall	W State	
$\times$	$\times$		X
WSET N	VSCT WSCI	WSET	WSET
WSET	WSET	WSET	WSET
X	X	X	X
	VICE NUMBER		Average and the second
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ig WSCT S			
W 2 V5 H	W5ET*	WSET	WSET

Page 28 of 64







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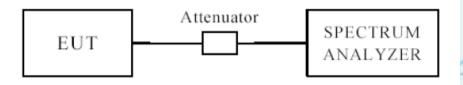


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# 7. 6DB BANDWIDTH MEASUREMENT

7.1 TEST SETUP



# 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

٧.	rodapica B	anamatn				
4	Mode	8	802.11b	Humidity	56%	RH
I	Temperat	ture 2	24 deg. C,	W5ET <sup>®</sup>	W/SE	7°\
	Channel	Channel Frequency (MHz)	Irangter	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass/ Fail
	1	2412	11-14	13173.1	0.5	Pass
-	6	2437	1	13076.9	0.5	Pass
	11	2462	1	13269.2	0.5	Pass

Mode	80	2.11g	Humidity	T	56%	RH
Temperat	ture 24	deg. C,				
Channel	Channel Frequency (MHz)	Data Transfer Rate	6 dB Bandwidth (kHz)	Minimu Limi (MHz	t	Pass/ Fail
	(2)	(Mbps)		(1111)2	-/	
1	2412	6	18076.9	0.5		Pass
6	2437	6	18077.9	0.5		Pass
11	2462	6	17980.8	0.5		Pass



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	Mode	802.	11n20	Humidity	56%	RH www.wsct-cert	.com
1	Temperat	ure 24 de	eg. C,	WSTT	W/5/		151
	Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass/ Fail	
	1 /	2412	6.5	18173.1	0.5	Pass	
1	6	2437	6.5	17980.8	0.5	Pass	
	11	2462	6.5	18076.9	0.5	Pass	$\searrow$

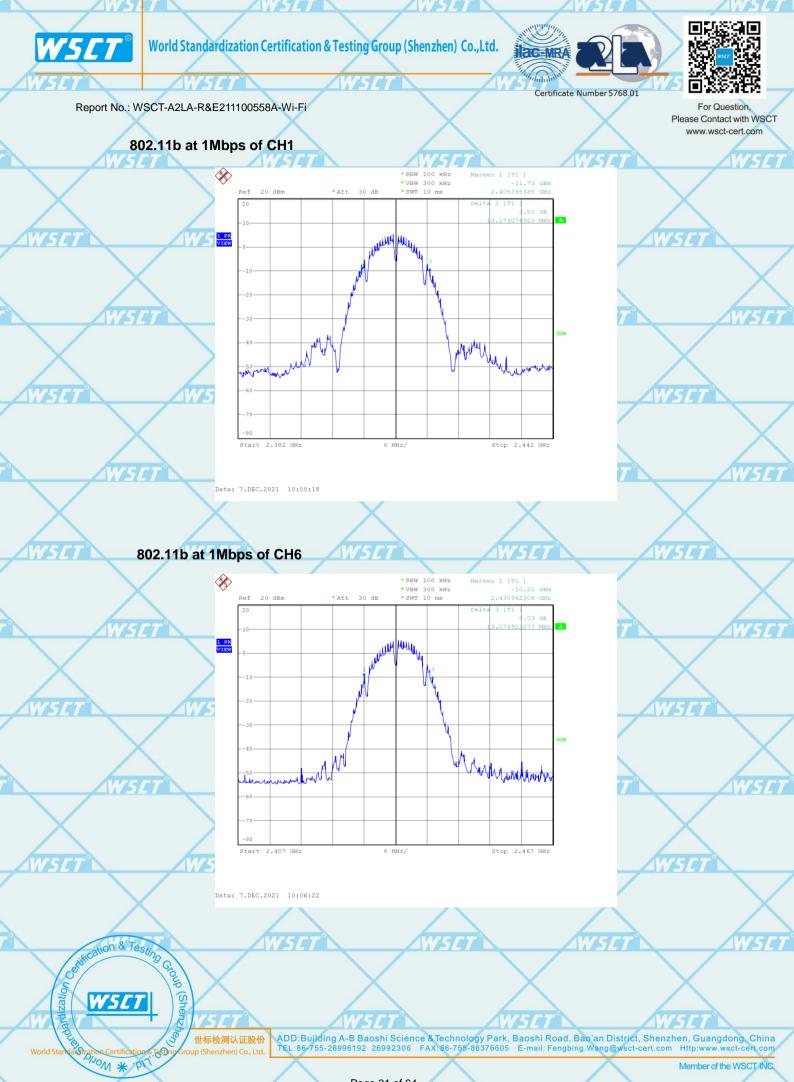
	Mode	X	802.1	11n40	Humidity	5	56% RH	
	Temperat	ure	24 de	eg. C,				
		Channe	1	Data	W5	Minimun	W5/7	
1	Channel	Frequen (MHz)	су	Transfer Rate (Mbps)	6 dB Bandwidth (kHz)	Limit (MHz)	Pass/ Fail	X
1	3	2422		13.5	36794.9	0.5	Pass	
ľ	6	2437	1775	13.5	23717.9	0.5	Pass	WSE7
	q	2452		13.5	27179 5	0.5	Pass	

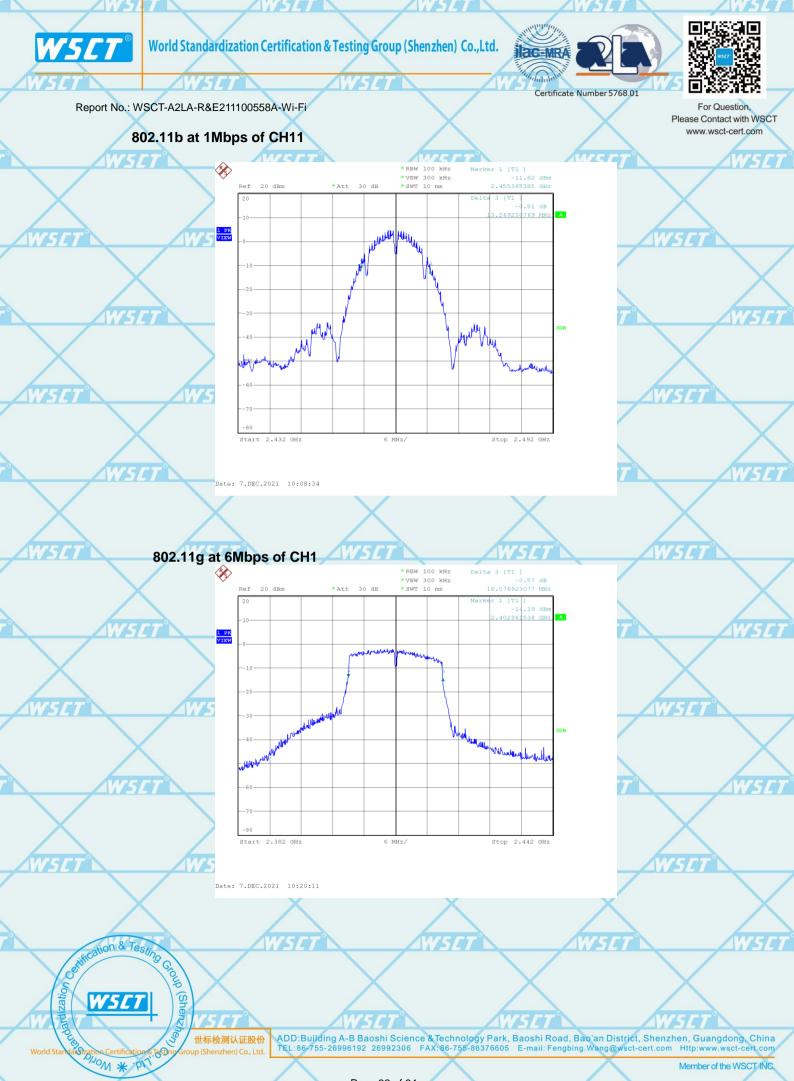
AWSET N	WSET	WSCT \	W5CT	WSET	
Wist			WSET	WSET	WSCI
WSET	WSET	WSET	WSET	WSET	
W51			WSET .	WSCT	WSET
WSET	WSET	WSET	WSET	WSET	
				X	X

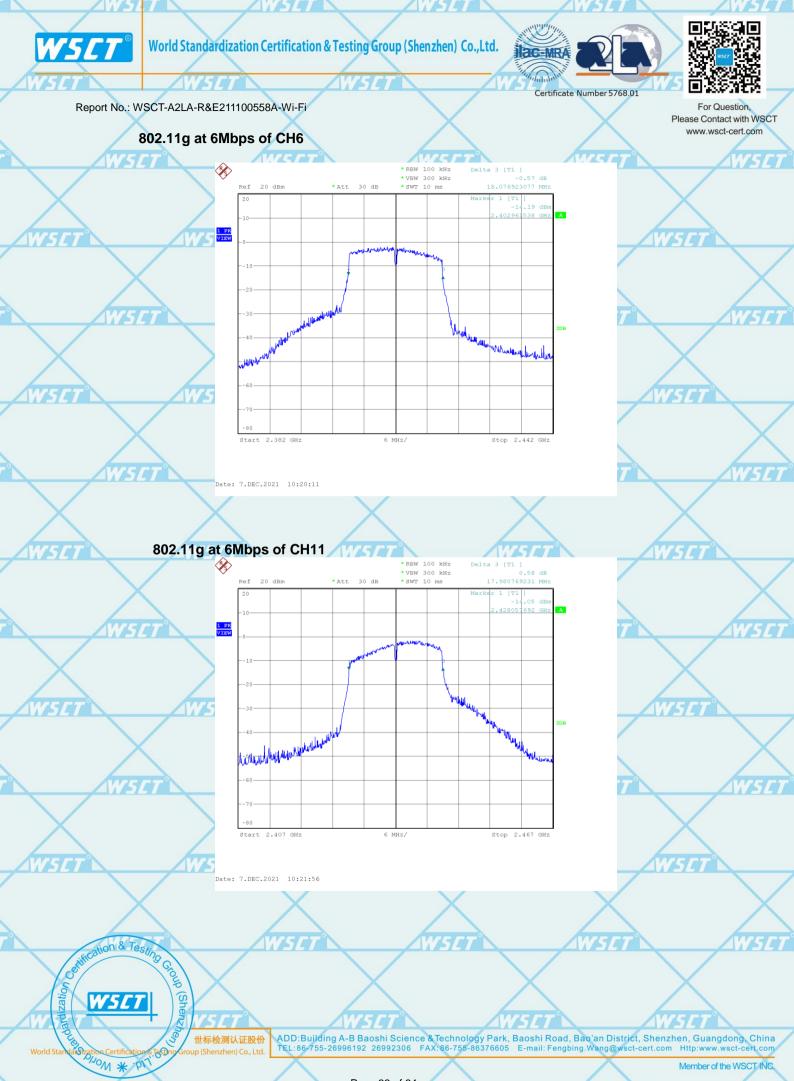
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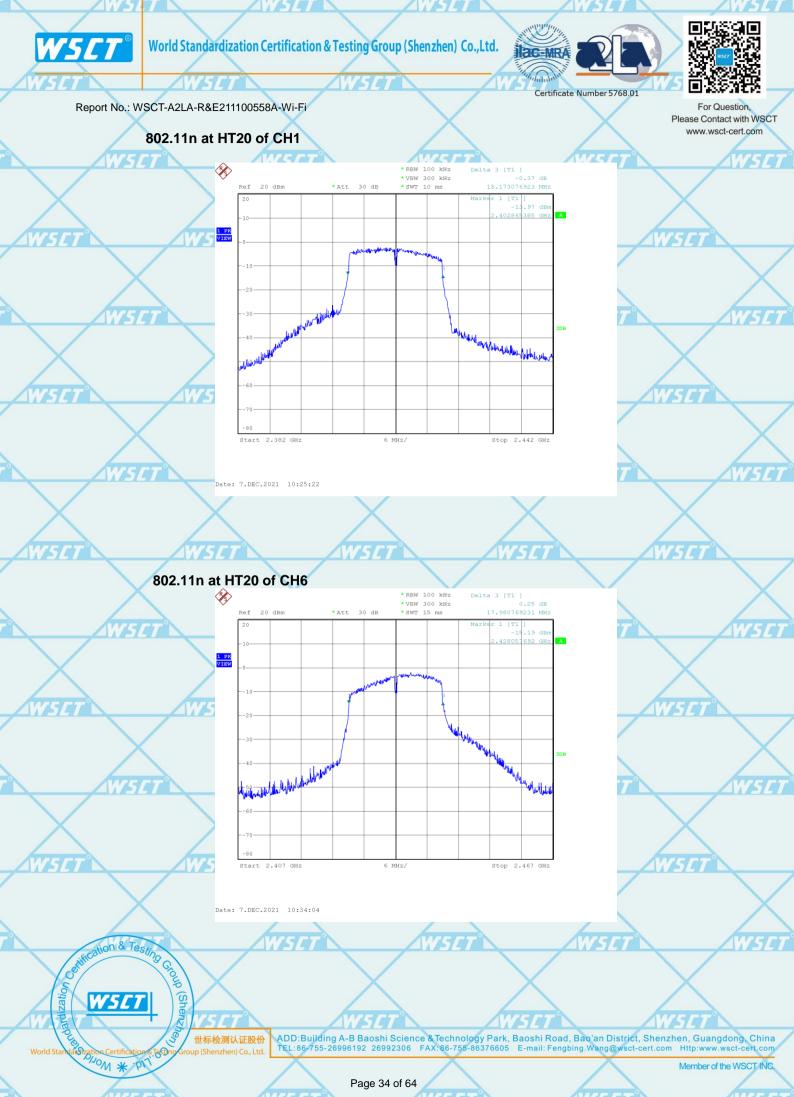
ADD:Bujlding A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992306 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com

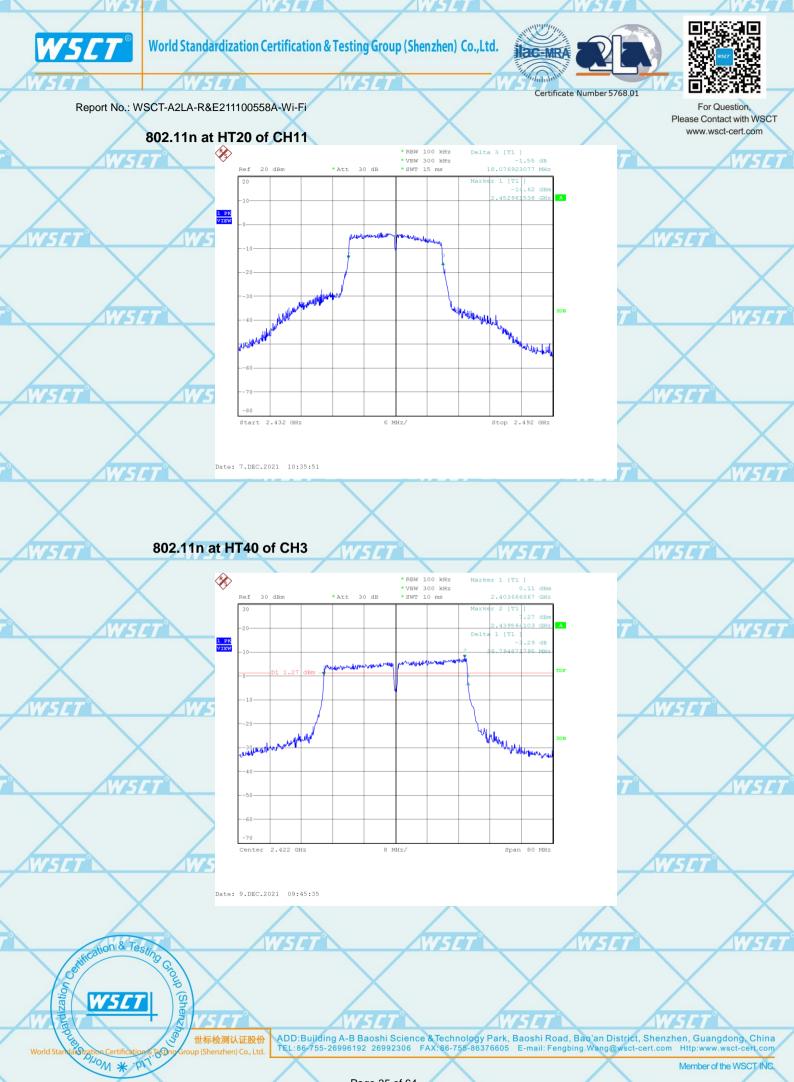
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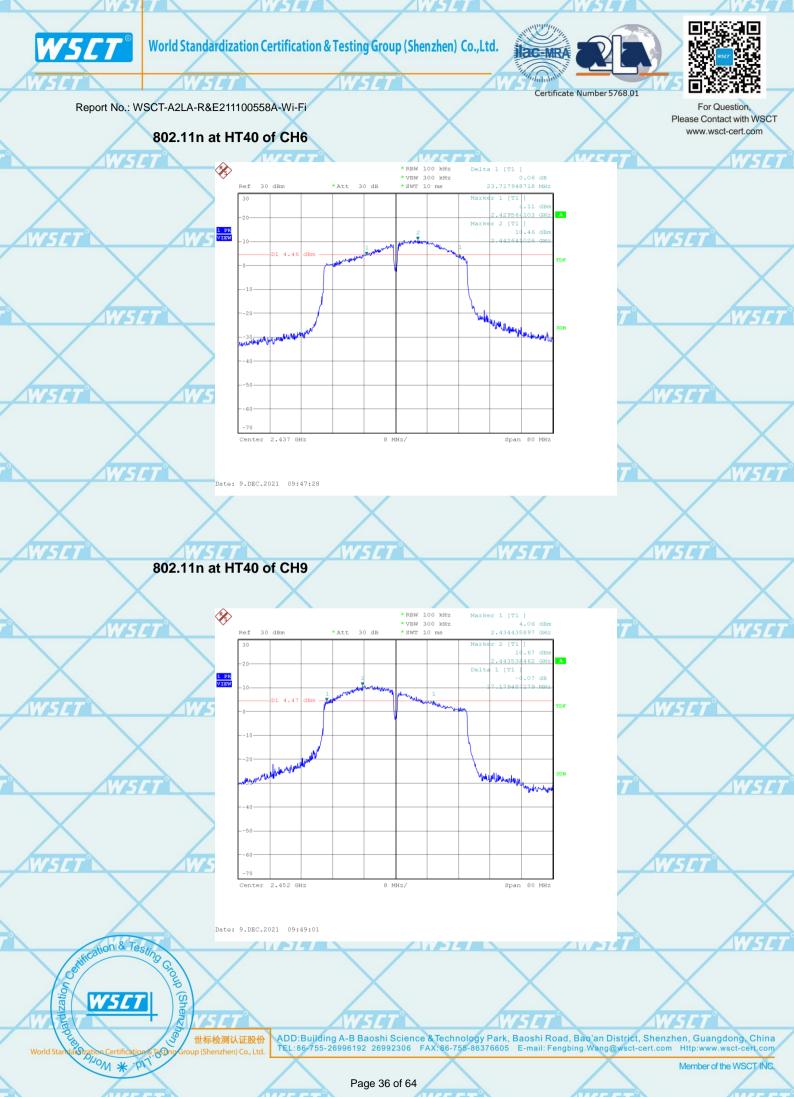


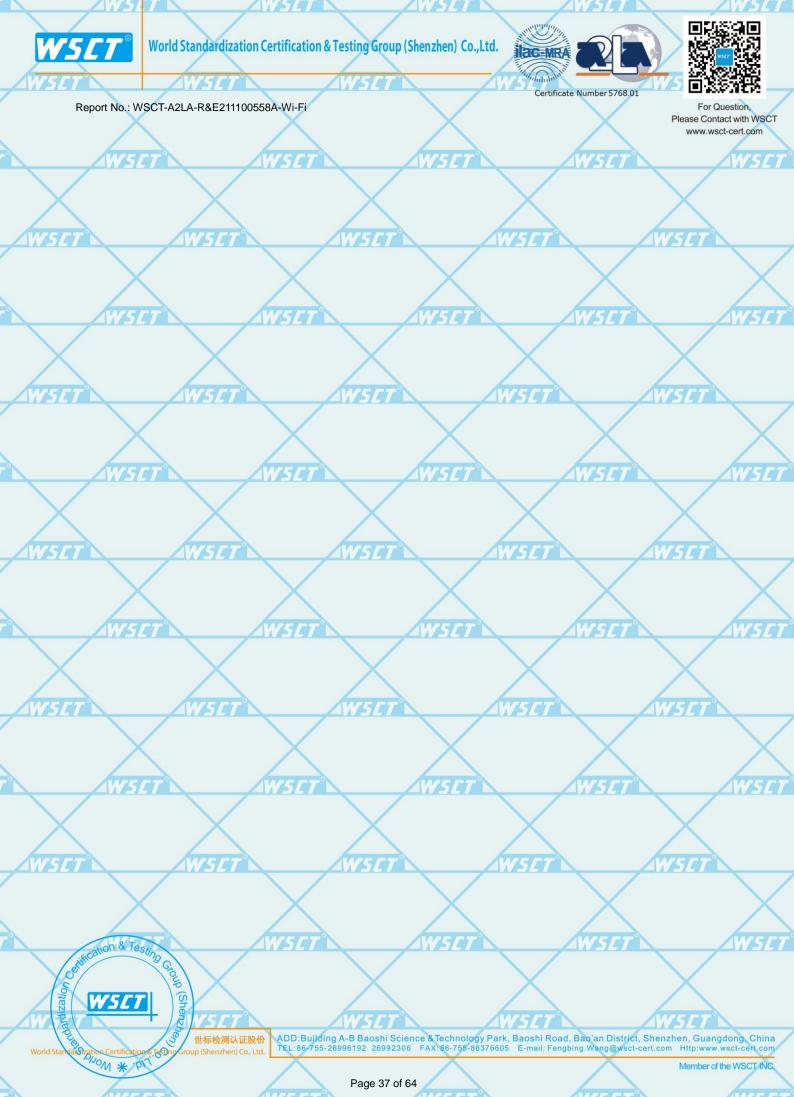


















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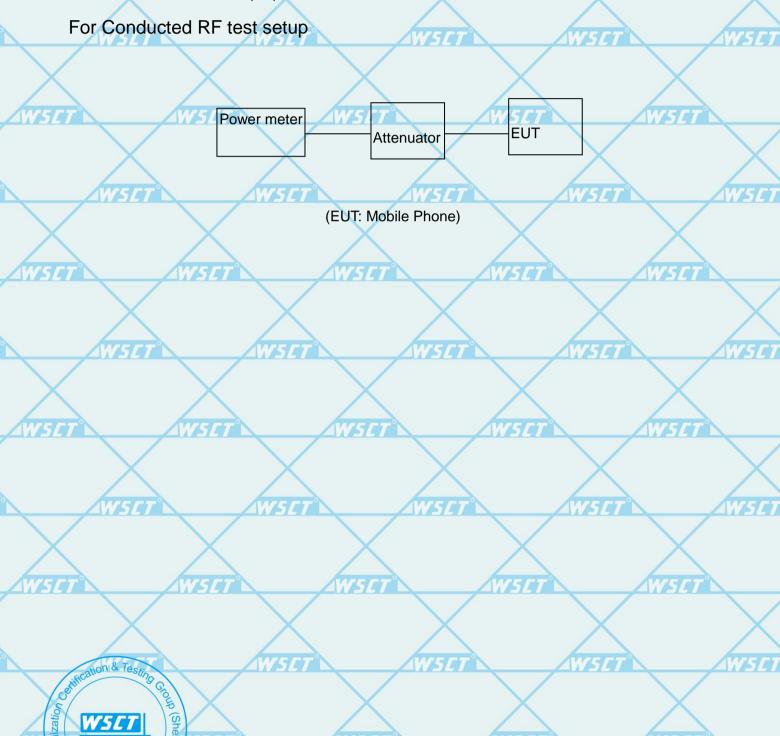
## 8. MAXIMUM CONDUCTED OUTPUT POWER

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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**Test Data:** 

SET

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				The second		
/	Mode	Channel/	Maximum conducted	Limit(dBm)	Pass / Fail	
		Frequency	output			
		(MHz)	power (dBm)			
			Meas Power			
	802.11b	1(2412)	14.59	30	Pass	
\		6(2437)	14.87	30	Pass	
7	V	11(2462)	14.63	V30 [ ]	Pass	ET'
	802.11g	1(2412)	13.73	30	Pass	
		6(2437)	13.64	30	Pass	
	WSET	11(2462) 54	13.59 W5L	30	W5 Pass	
/	802.11n(HT20)	1(2412)	13.42	30	Pass	
\		6(2437)	13.14	30	Pass	
7		11(2462)	13.49	/30/27	Pass W	ET
	802.11n	3(2422)	12.35	30	Pass	
	(HT40)	6(2437)	12.24	30	Pass	
	WSET	9(2452)/5/	12.21 W5L	30	W 5 Pass	

WSET WSET WSET WSE

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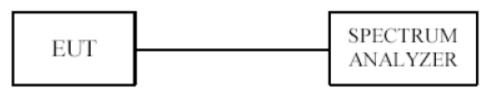


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# 9. POWER SPECTRAL DENSITY MEASUREMENT

# 9.1 TEST SETUP



WSE

WSET

## 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.

i i. The resulting	peak FSD level Illust	De S o ubili.		
WSET	WSET	WSET	WSET	WSEI
WSUT	WSET	WSLT	WSET	WSET
WSET	WSET	WSEI	WSET	WSE
WSET	WSET	WSET	WSET	WSET
		WSEI		$\times$
Stiff Cation & Testing Co.				

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# 9.4 TEST RESULT

Mode	802.11b	Humidity	56%	RH	
Temperature	24 deg. C,				
Channel	Channel	Final RF Power	Maximum Limit	Pass/ Fail	
	Frequency	Level in (dBm)	(dBm)		
	<b>5</b> /7 (MHz)	WSCT	WSET	WSET	
		1Mbps			
1	2412	-8.88	8	Pass	
6	2437	-9.14	8	Pass	
11	2462	-10.23	8	Pass	

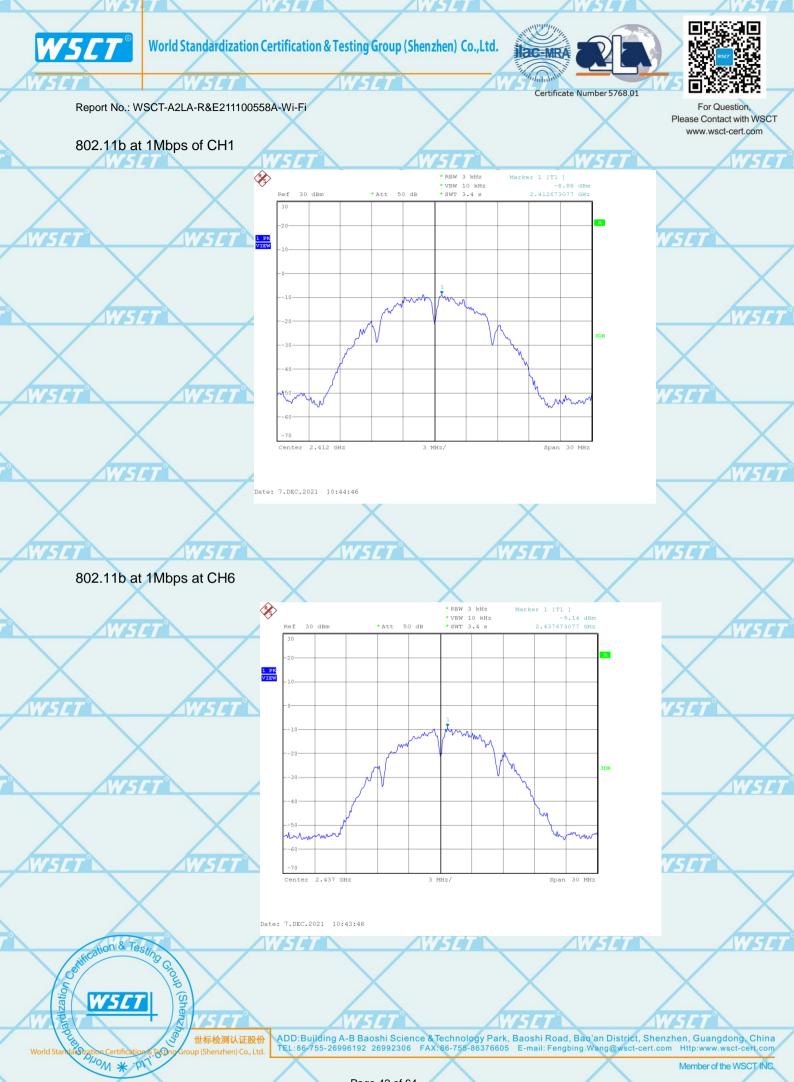
Mode	802.11g	X	Humidity	X	56%	RH
Temperature	24 deg. C,					
Channel	Channel	Final RF		Maximum Lir	nit	Pass/ Fail
	Frequency (MHz)	Level ir	n (dBm)	(dBm)		
		6	6Mbps /			
1	2412	-14	.58	8		Pass
W5/6	2437	-13	.17W5C	8		Pass
11	2462	-14	.29	8		Pass

Mode	802.11n HT20	Humidity	56%	S RH
Temperature	24 deg. C,			
Channel	Channel	Final RF Power	Maximum Limit	Pass/ Fail
X	Frequency	Level in (dBm)	(dBm)	X
(MHz)				
WELT	WSIT	6.5Mbps	T° W	STT
1	2412	-14.47	8	Pass
6	2437	-13.80	8	Pass
11 2462		-15.72	8	Pass

2			AVV JL /				
	Mode	802.11n HT40		Humidity	/	56% l	RH
	Temperature 24 deg. C, Channel Channel Frequency			X			
			Final RF	Power	Maximum Lir	nit	Pass/ Fail
			Level in (dBm)		(dBm)		723
	WSLI	(MHz)		ZUP!			
			13.5Mbps				
	3	2422	X-3.	71	8		Pass
	6	2437	-2.	63	8		Pass
	9	2452	W5/-1	85	W 48-7°		Pass

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





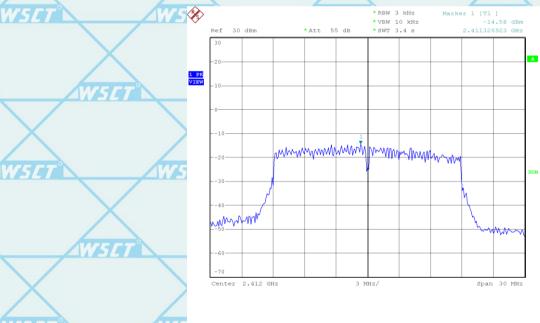
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ate: 7.DEC.2021 10:45:52

# 802.11g at 6Mbps of CH1

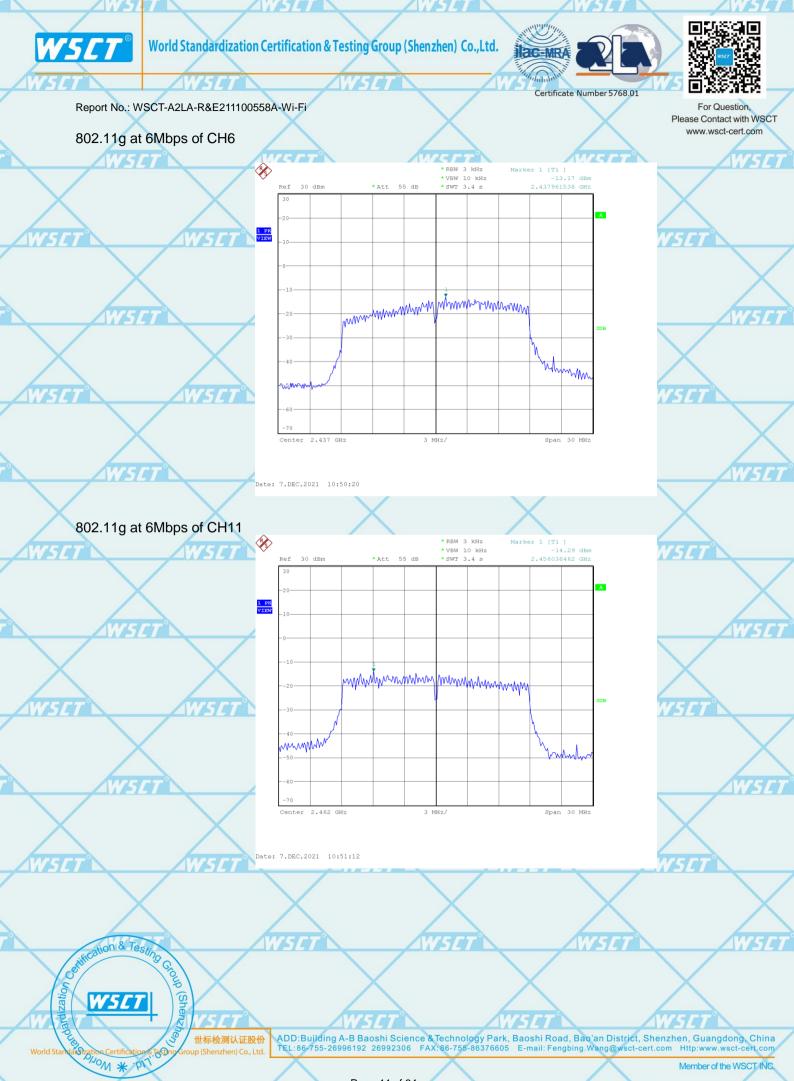


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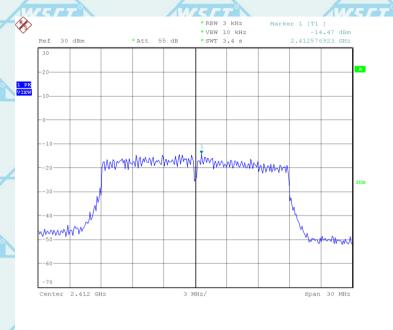


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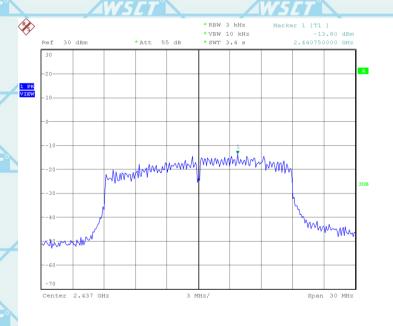
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802.11n HT20 at 6.5Mbps of CH1

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802.11n HT20 at 6.5Mbps of CH6



Date: 7.DEC.2021 10:53:34

Date: 7.DEC.2021 10:52:33

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WSLT

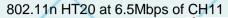




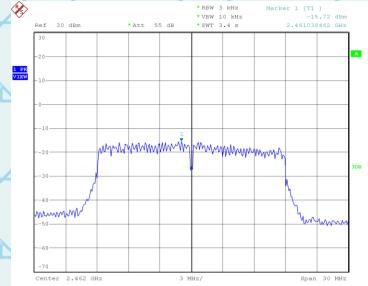




Report No.: WSCT-A2LA-R&E211100558A-Wi-Fi

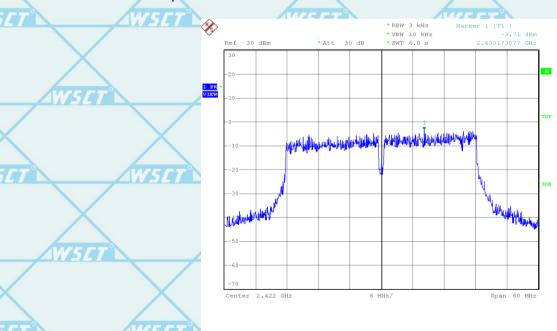






Date: 7.DEC.2021 10:54:35

# 802.11n HT40 at13.5Mbps of CH3

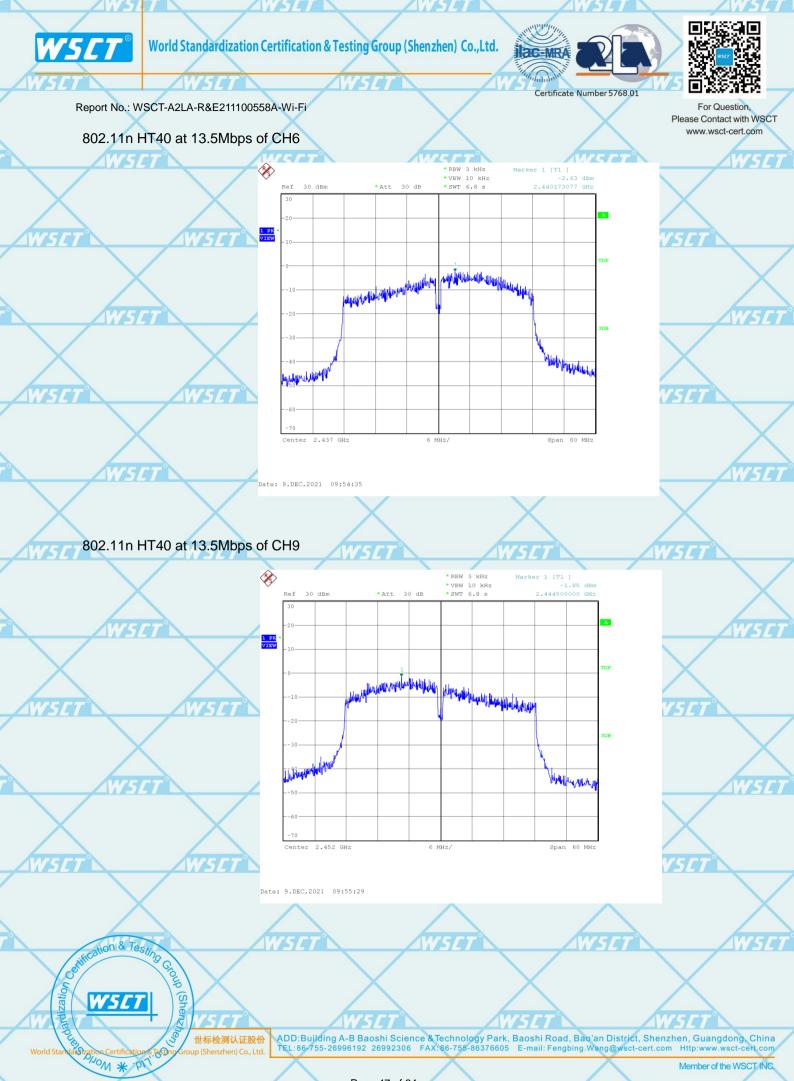


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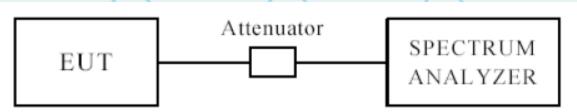
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# 10. OUT OF BAND MEASUREMENT 10.1 TEST SETUP FOR BAND EDGE



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:

	90=11110										
	Indicated			Antenna		Correction Factor			FCC Part 15.247		
4	Frequency (MHz)	Receiver Reading (dB <sub>µ</sub> V/m)	result (PK/AV)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)	
Low Channel (2412MHz)											
	2390	31.13	AV	V	30.3	4.1	33.1	32.43	54	21.57	
	2390	30.52	AV	/5 <u>6</u> 71	30.3	4.1	33.1	31.82	54	22.18	
/	2390	39.36	PK	V	30.3	4.1	33.1	40.66	74	33.34	
\	2390	41.67	PK	Н	30.3	4.1	33.1	42.97	74	31.03	
4		W5	LT°	Hi	gh Channel	(2462MH	z) W5/		W	SET	
	2483.5	30.77	AV	V	30.3	4.1	33.1	32.07	54	21.93	
	2483.5	30.76	AV	H	30.3	4.1	33.1	32.06	54	21.94	
	2483.5	39.92	PK	V	30.3	4.1	33.1	41.22	74	32.78	
	2483.5	40.62	PK	H	30.3	4.1	33.1	41.92	74	32.08	

	802.11g	har			A		Arres		4	
4	Indica	ted		Antenna	Corre	ection Fa	ctor	FCC Part 15.247		17
	Frequency (MHz)	Receiver Reading (dB <sub>µ</sub> V/m)	result (PK/AV)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel (2412MHz)										
	2390	34.46	AV	V	30.3	4.1	33.1	35.76	54	18.24
	2390	33.46	AV	Н	30.3	4.1	33.1	34.76	54	19.24
2	2390	52.11	PK	V	30.3	4.1	33.1	53.41	74	20.59
	2390	50.19	PK	H	30.3	4.1	33.1	51.49	74	22.51
	$\wedge$			Hi	gh Channel	(2462MH	z)		$\overline{}$	
	2483.5	31.20	AV	V5V-7°	31	4.45	32.7	33.90	54	20.10
	2483.5	30.54	AV	Н	31	4.4	32.7	33.24	54	20.76
	2483.5	42.01	PK	V	31	4.4	32.7	44.71	74	29.29
e e	2483.5	40.88	PK	Н	31	4.4	32.7	43.58	74	30.42

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











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## 802.11n HT20

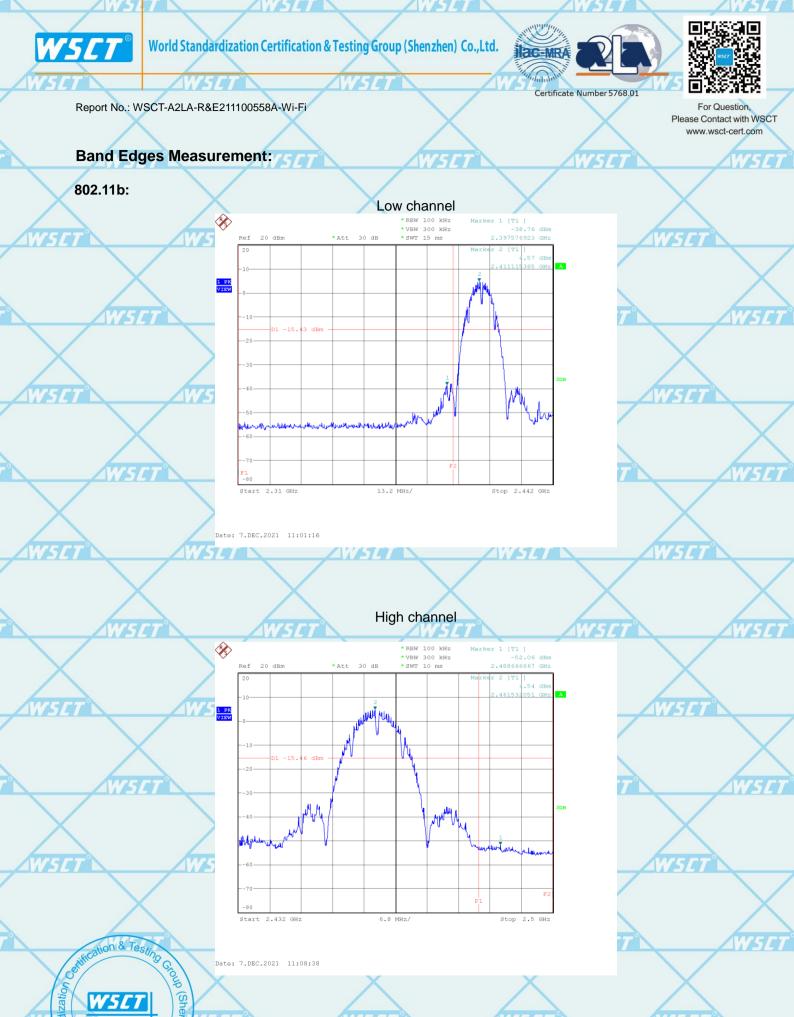
	Indica	ted		I Polar I	Corre	ection Fa	ctor	FCC Part 15.247		
	Frequency (MHz)	Receiver Reading (dB <sub>µ</sub> V/m)	result (PK/AV)		Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel (2412MHz)										
	2390	37.57	AV	V	30.3	4.1	33.1	38.87	54	15.13
	2390	37.79	AV	THE STATE OF	30.3	4.1	33.1	39.09	54	14.91
	2390	53.56	PK	V	30.3	4.1	33.1	54.86	74	19.14
	2390	52.78	PK	Н	30.3	4.1	33.1	54.08	74	19.92
				Hi	gh Channel	(2462MH	z)			
2	2483.5	30.61	AV	V	W <sub>31</sub>	4.4	32.7	33.31	54	20.69
	2483.5	32.07	AV	Н	31	4.4	32.7	34.77	54	19.23
	2483.5	40.77	PK	V	31	4.4	32.7	43.47	74	30.53
	2483.5	40.40	PK	75 H7	31	4.4	32.7	43.10	74	30.90

#### 802.11n HT40

٦	0UZ. 1111 H 14	10								
Indicated			Antenna	Corre	ection Fa	ctor	FCC	Part 15.24	17	
	Frequency (MHz)	Receiver Reading (dB <sub>µ</sub> V/m)	result (PK/AV)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
	WSE	7	1	VS/TEC	w Channel	(2422MH	z)	/W/	777	
	2390	36.80	AV	V	30.3	4.1	33.1	38.10	54	15.90
	2390	36.98	AV	Н	30.3	4.1	33.1	38.28	54	15.72
	2390	53.94	PK	V	30.3	4.1	33.1	55.24	74	18.76
9	2390	54.71	PK	H/	30.3	4.1	33.1	56.01	74	17.99
				Hi	gh Channel	(2452MH	z)		<b>X</b>	
	2483.5	31.94	AV	V	31	4.4	32.7	34.64	54	19.36
	2483.5	32.57	AV	<b>V5H7</b> 1	31	4.45	32.7	35.27	<b>4</b> 54	18.73
	2483.5	44.91	PK	V	31	4.4	32.7	47.61	74	26.39
	2483.5	45.09	PK	Н	31	4.4	32.7	47.79	74	26.21

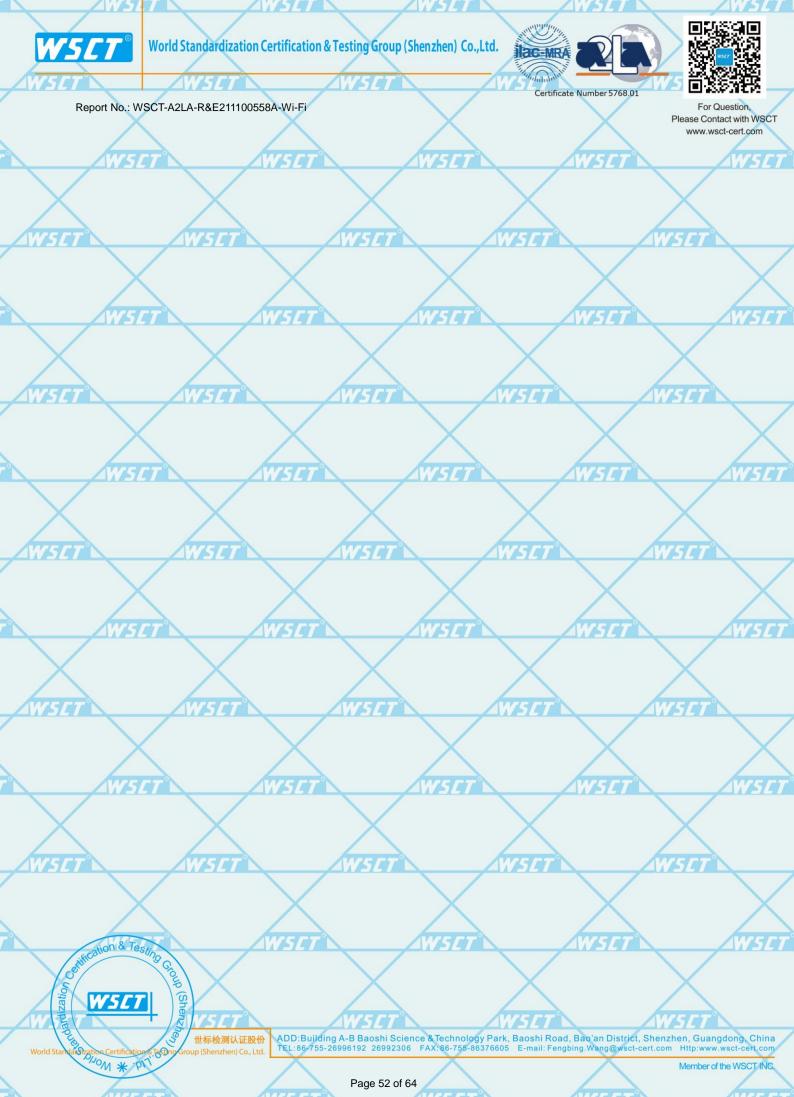
Note: The BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

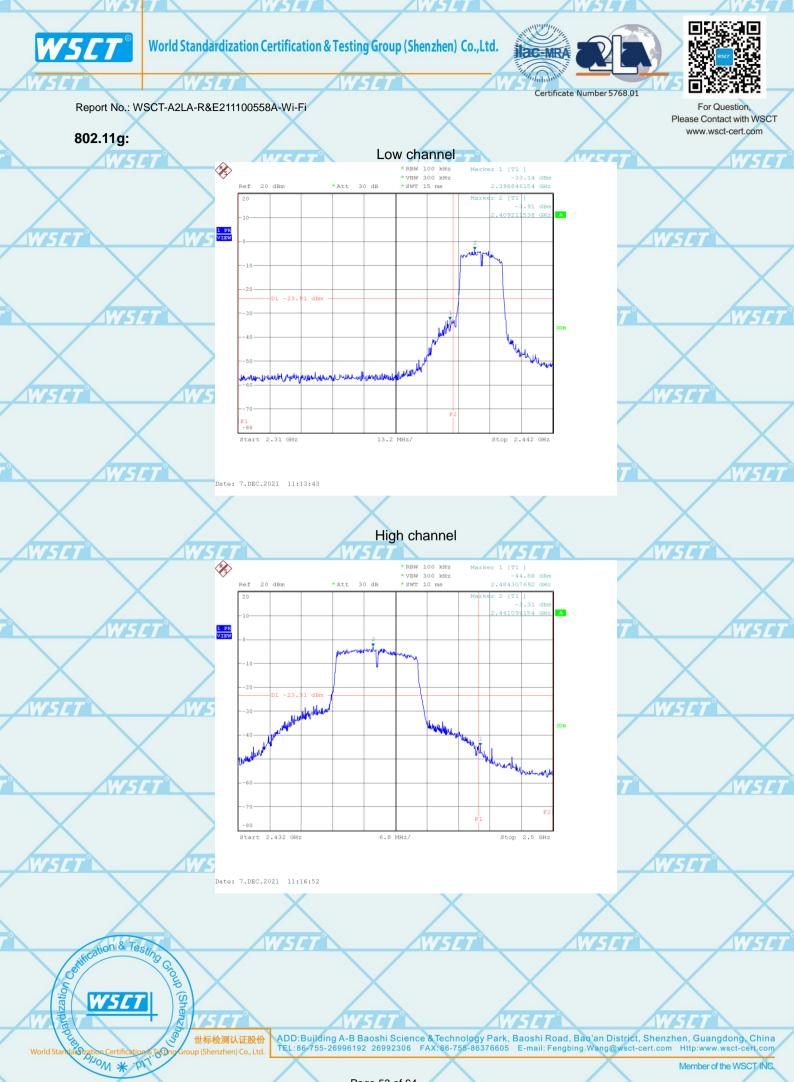




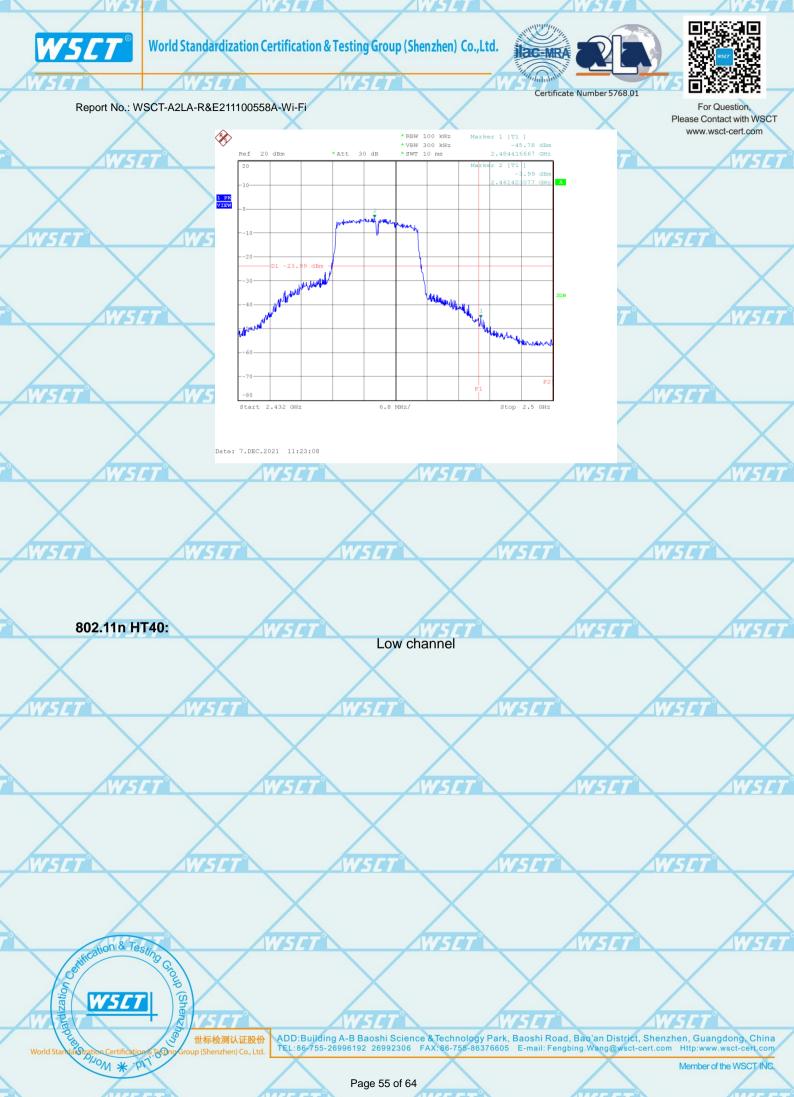
ADD:Bujlding A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992306 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com 世标检测认证股份

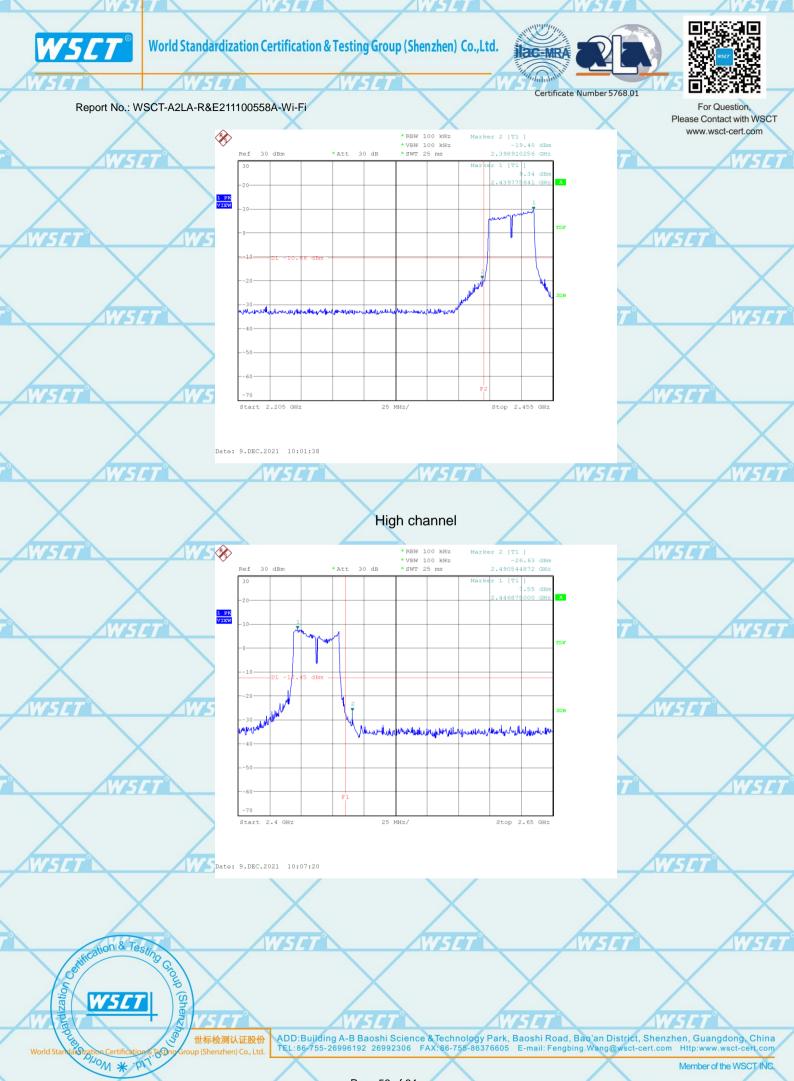
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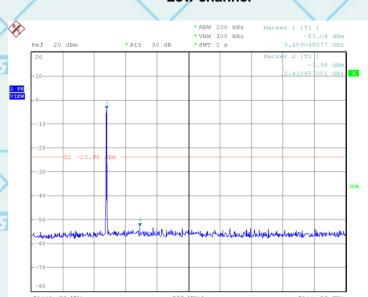
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# Conducted measurement:

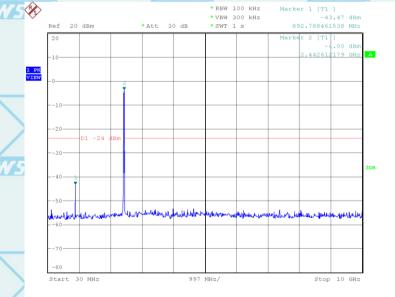
802.11b:





Date: 7.DEC.2021 11:28:41

# Middle channel



Date: 7.DEC.2021 11:34:06

WE

ZW5147

**567** 

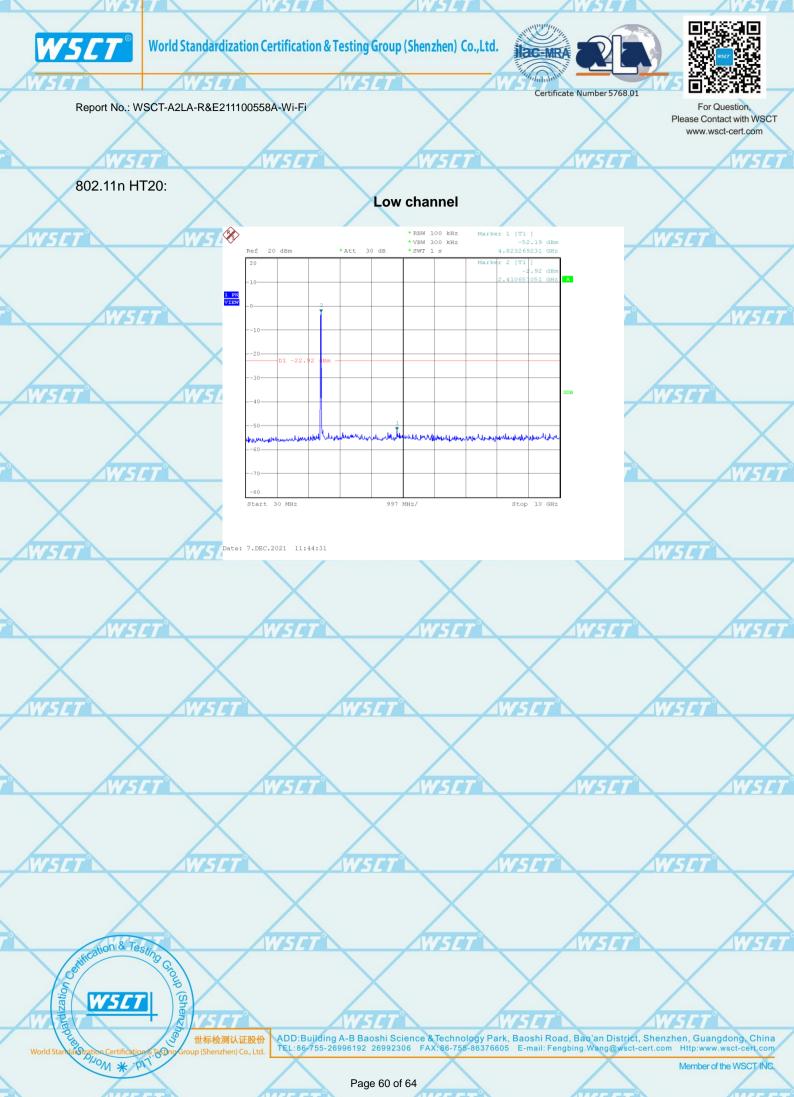
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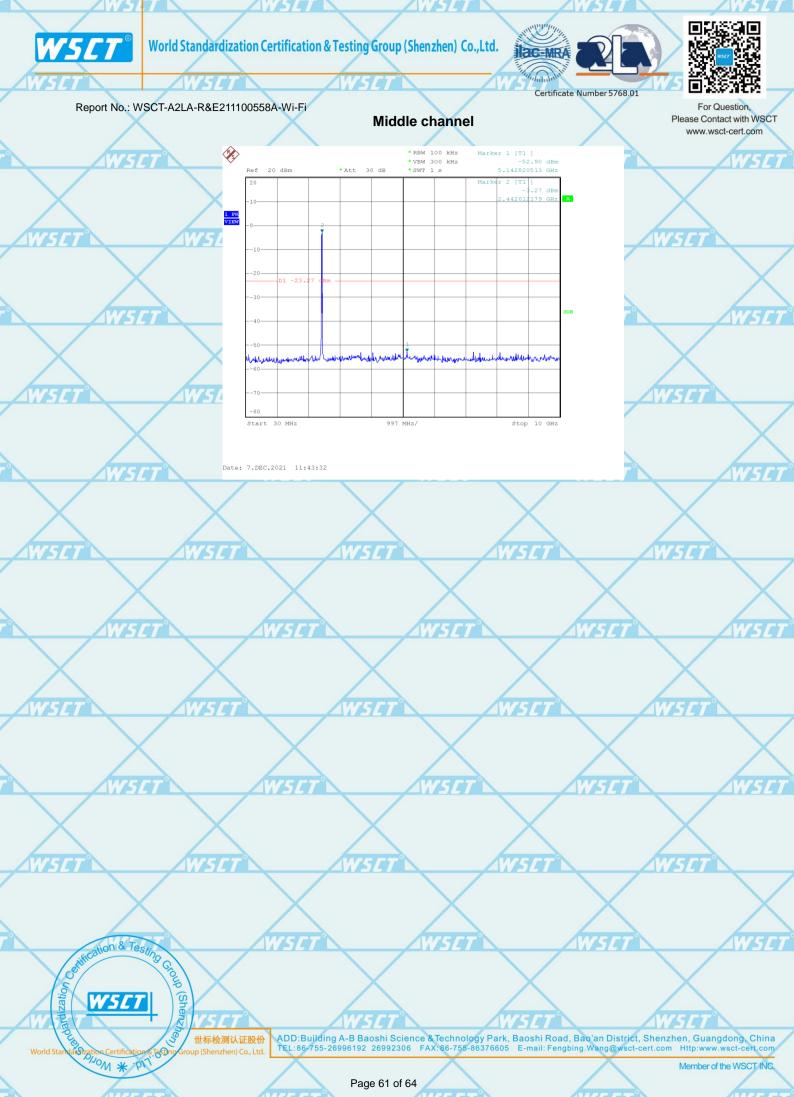
AND AND CERTIFICATION # PIT

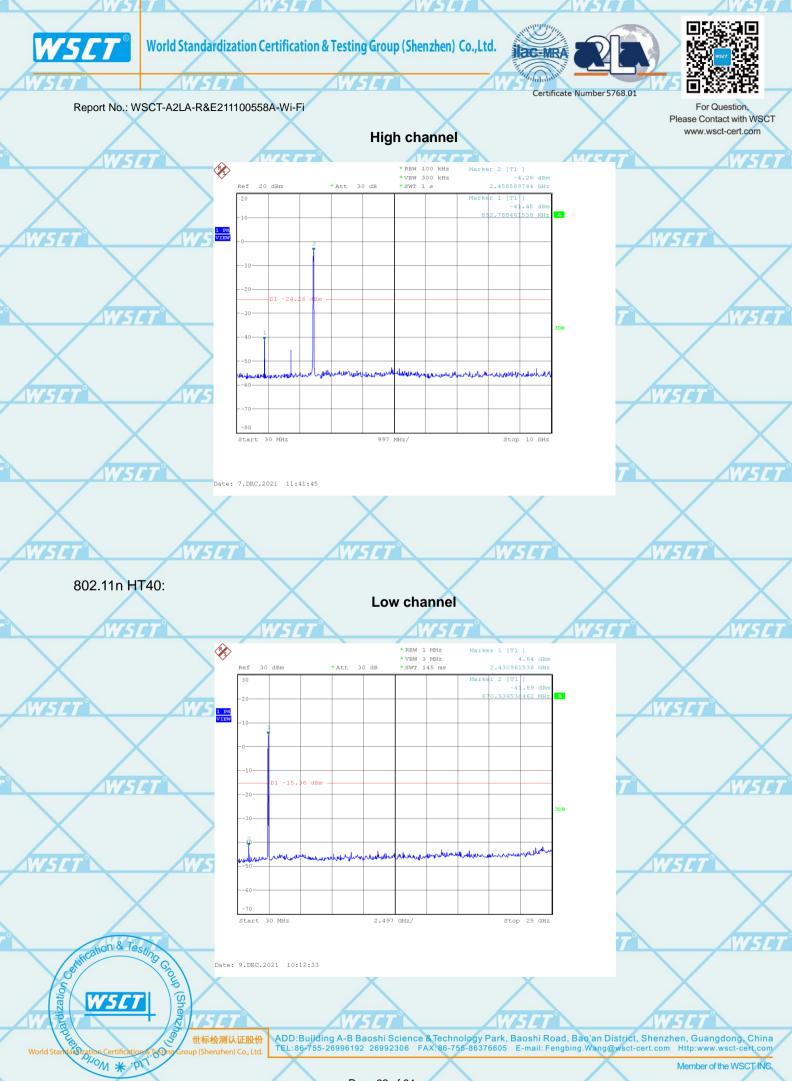
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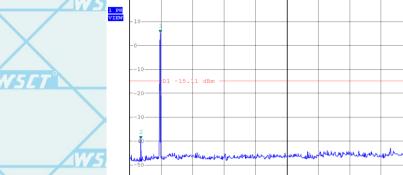
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# \*VBW 3 MHz \*SWT 145 ms

Middle channel



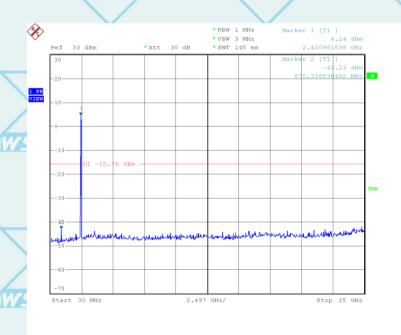




Date: 9.DEC.2021 10:10:34

Start 30 MHz

# **High channel**



2.497 GHz/

Date: 9.DEC.2021 10:14:48

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