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# TEST REPORT

FCC ID: 2ADYY-T1 Product: Megabook Model No.: T1 Additional Model No: N/A Trade Mark: TECNO Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2 Issued Date: 01 August 2022

Issued for:

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TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL: +86-755-26996192 FAX: +86-755-86376605

**Note:** The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.

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#### **1. GENERAL INFORMATION**

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Megabook	]
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N/A	1
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FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
TECNO MOBILE LIMITED WSC7 WSC7	-
FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
February 10, 2018 to February 25, 2018	17
FCC CFR Title 47 FCC Part 15 Subpart E	
	T1 N/A TECNO TECNO MOBILE LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG TECNO MOBILE LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG February 10, 2018 to February 25, 2018

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)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)

Checked By:

(Li Huaibi)

Approved By:

(Wang Fengbing)

Date:

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1.1 EUT DESCRIPTION		SET
Product:	Megabook	
Model No.:		
Additional Model No.:	N/A WSET WSET	-/
Trade Mark:	TECNO	Х
Operation Frequency:	Band1:5180-5240MHz Band2:5260-5320MHz Band3:5500-5700MHz Band4:5745-5825MHz	527
Modulation type:	IEEE 802.11a/n/ac/ax: OFDM/OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)	
Antenna Type:	Integral Antenna	$\overline{}$
Antenna Gain	4.69dBi	Ň
Power supply:	Rechargeable Li-ion Polymer Battery: 156 Rated Voltage: 11.55V Rated Capacity: 6060mAh/69.99Wh Typical Capacity:6160mAh/71.14Wh Limited Charge Voltage: 13.2V	5 <i>CT</i> î
Adapter:	Adapter: TCW-A61S-65W Input: 100-240V~50/60Hz 1.5A Max Output:5.0V3.0A/9.0V3.0A/12.0V3.0A/15.0V3.0A/20 .0V3.25A	
Remark:	N/A.	361

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### 2. TEST DESCRIPTION

### 2.1 MEASUREMENT UNCERTAINTY

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

				_
X	No.	Item	Uncertainty	
5	1	Conducted Emission Test	±3.2dB	
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	
	4	All emissions, radiated(<1GHz)	±4.7dB	wsi
	5	All emissions, radiated(>1GHz)	±4.7dB	
X	6	Temperature	±0.5°C	
r	7	Humidity	±2%	



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### 2.2 TEST ENVIRONMENT AND MODE

<b>Operating Environment:</b>
-------------------------------

Temperature: 7° WSCT°	25.0 °C <u>WSET</u> <u>WSET</u>
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar

#### **Test Mode:**

Engineering mode:

Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

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The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

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.

Test Mode	Description
Mode 1	802.11a W5CT
Mode 2	802.11n20
Mode 3	802.11n40
Mode 4	802.11ac20
Mode 5	802.11ac40
Mode 6	802.11ac80
Mode 7	802.11ax20
Mode 8	802.11ax40
Mode 9	802.11ax80

Note:

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& Ten The measurements are performed at the highest, lowest available channels.

(2) The EUT use new battery.

5[7(3) Record the worst case of each test item in this report.

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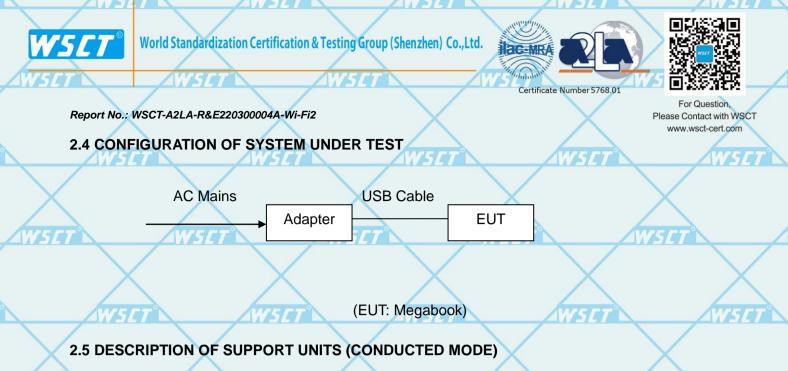
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2.3	TABLE OF	PAR/	METE	RS O	F TEX	T SOF	TWAR	E SE	TING			1	WSET
	Test		*#9646633#*										
	program												
	Mode						cy (MHz	z)		/	1		/
	Niode	ATT				ICB: 20			- /-			0	100
	802.11a	5180	5240	5260	5320	5500	5700	5745	5825	~	<u> </u>		
	002.114	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz				
	802.11n	5180	5240	5260	5320	5500	5700	5745	5825				
	002.1111	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz				
	802.11ac	5180	5240	5260	5320	5500	5700	5745	5825				
/	002.1140	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz				WSET
1	802.11ax	5180	5240	5260	5320	5500	5700	5745	5825				
	002.1187	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz				
					Ν	ICB: 40	MHz						
	802.11n	5190	5230	5270	5310	5510	5670	5755	5795				/
	002.1111	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			2	4
	802.11ac	5190	5230	5270	5310	5510	5670	5755	5795	12	L /		
	002.1140	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz				$\backslash$
	802.11ax	5190	5230	5270	5310	5510	5670	5755	5795				
	002.11ax	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz				
				/		ICB: 80	MHz 🚽						
	802.11ac	5210	5290	5530	5610	5775		VERT					WSET
1	002.11ac	MHz	MHz	MHz	MHz	MHz							
/	902 11 ov	5210	5290	5530	5610	5775							
	802.11ax	MHz	MHz	MHz	MHz	MHz					(		
	During testi	ng Cha	nnel and		Contro	lling Sof	tware n	rovided	hy tha c	rusto	ome	r	

During testing, Channel and 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.

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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
	Adapter		CQ-18KX	WYLIN	/
2	Earphone	/	N/A	/	

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- (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:

### FCC Part15 Subpart C&E

	Standard Section	Test Item	Judgment	Remark
	2.1049 15.403(i)	26dB & 99% Bandwidth	PASS	Complies
/	15.407(e)	6dB Spectrum Bandwidth	PASS	Complies
H	15.407(a)	Maximum Conducted Output Power	PASS	Complies
-	15.407(a)	Power Spectral Density	PASS	Complies
	15.407(b)	Unwanted Emissions	PASS	Complies
_	15.207	AC Conducted Emission	PASS	Complies
$\langle$	15.407(g)	Frequency Stability	PASS	Complies
<u> </u>	15.407(c) W5C	Automatically Discontinue Transmission	PASS	Complies 57
	15.203 & 15.407(a)	Antenna Requirement	PASS	Complies
	15.407(h)	Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)	PASS	Complies

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

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MEASUREMENT	INSTRUMENTS					52
NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibratio n Due.	
Test software	W	EZ-EMC	CON-03A	/W		
Test software		MTS8310	-	<u> </u>	-	X
EMI Test Receiver	R&S	ESCI	100005	11/05/2021	11/04/2022	
LISN	AFJ	LS16	16010222119	11/05/2021	11/04/2022	14
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2021	11/04/2022	
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2021	11/04/2022	
Coaxial cable	Megalon	LMR400	N/A	11/05/2021	11/04/2022	
GPIB cable	Megalon	GPIB	N/A	11/05/2021	11/04/2022	X
Spectrum Analyzer	R&S-	FSU/5C7	100114	11/05/2021	11/04/2022	57
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2021	11/04/2022	
Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2021	11/04/2022	
Bi-log Antenna 5	SUNOL Sciences	5C7 JB3	A021907	11/05/2021	11/04/2022	
9*6*6 Anechoic	/	/	-	11/05/2021	11/04/2022	
Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2021	11/04/2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2021	11/04/2022	5/
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2021	11/04/2022	
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	N/A	N/A	N.C.R	N.C.R	X
RF cable	Murata	MXHQ87WA3000	• -	11/05/2021	11/04/2022	
Loop Antenna	EMCO	6502	00042960	11/05/2021	11/04/2022	974
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2021	11/04/2022	
Power meter	Anritsu	ML2487A	6K00003613	11/05/2021	11/04/2022	
Power sensor	Anritsu	MX248XD	-	11/05/2021	11/04/2022	
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2021	11/04/2022	X
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4.1 FACILITIES AND ACCREDITATIONS 4.1.1 FACILITIES

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

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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."

### 4.1.2 ACCREDITATIONS

China National Accreditation Service for Conformity Assessment (CNAS) Registration number NO: L3732

American Association for Laboratory Accreditation(A2LA)

Registration NO: 5768.01

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Copies of granted accreditation certificates are available for downloading from our web site, http://www.wsct-cert.com

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### 5. EMC EMISSION TEST

### 5.1 CONDUCTED EMISSION MEASUREMENT

### 5.1.1 POWER LINE CONDUCTED EMISSION Limits

ts (Frequency Range 150KHz-30MHz)

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FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC
Note:		VSET	/W5L		AWSET

(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.

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	Receiver Parameters	Setting	
5/1	Attenuation	10 dB	
	Start Frequency	0.15 MHz	$\overline{}$
	Stop Frequency	30 MHz	
	IF Bandwidth	9 kHz	/
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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.

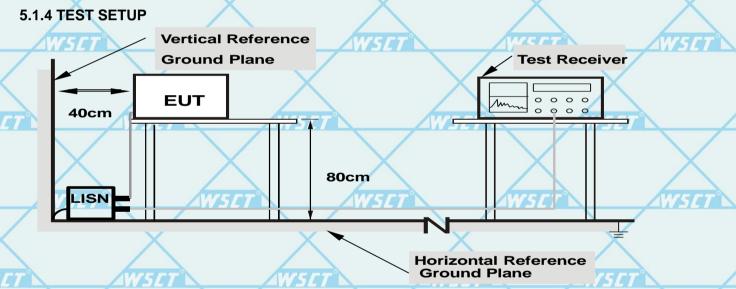
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- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end 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



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

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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

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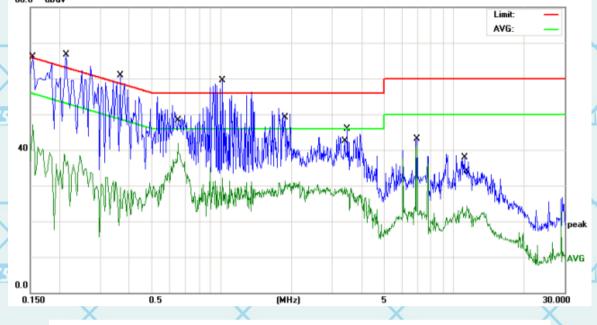
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Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)-worst

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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		l
/			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	1
	1		0.1539	36.62	10.41	47.03	55.78	-8.75	AVG	1
	2		0.2140	36.97	10.41	47.38	63.04	-15.66	QP	1
	3		0.3660	26.93	10.44	37.37	58.59	-21.22	QP	
	4	*	0.6500	31.33	10.48	41.81	46.00	-4.19	AVG	2
	5		1.0060	23.96	10.51	34.47	56.00	-21.53	QP	
	6		1.8740	20.75	10.64	31.39	46.00	-14.61	AVG	l
/	7		3.3860	18.83	10.67	29.50	46.00	-16.50	AVG	
	8		3.4780	35.15	10.67	45.82	56.00	-10.18	QP	1
	9		6.9260	32.32	10.73	43.05	60.00	-16.95	QP	1
	10		6.9260	30.55	10.73	41.28	50.00	-8.72	AVG	
	11		11.1140	26.99	10.85	37.84	60.00	-22.16	QP	2
	12		11.3460	13.35	10.86	24.21	50.00	-25.79	AVG	
										A

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

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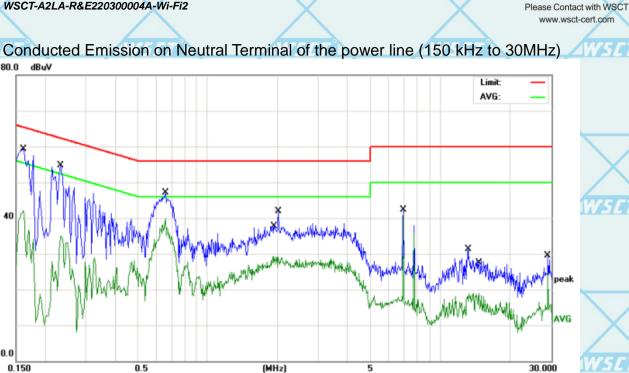




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$\mathbf{X}$	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
WSET	1	*	0.1620	48.94	10.41	59.35	65.36	-6.01	QP	
	2		0.1620	31.70	10.41	42.11	55.36	-13.25	AVG	
	3		0.2340	24.50	10.42	34.92	52.30	-17.38	AVG	
WISE	4		0.6580	36.64	10.48	47.12	56.00	-8.88	QP	
	5		0.6580	29.38	10.48	39.86	46.00	-6.14	AVG	
$\mathbf{X}$	6		1.9100	18.71	10.65	29.36	46.00	-16.64	AVG	
$\land$	7		2.0140	31.17	10.66	41.83	56.00	-14.17	QP	
W5CT	8		6.9260	31.65	10.73	42.38	60.00	-17.62	QP	77°\
	9		6.9260	30.43	10.73	41.16	50.00	-8.84	AVG	
X	10		13.1700	20.32	10.96	31.28	60.00	-28.72	QP	
	11		14.6700	7.96	11.04	19.00	50.00	-31.00	AVG	6
WISE	12		28.9580	18.56	10.96	29.52	60.00	-30.48	QP	

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1.An initial pre-scan was performed on the line and neutral lines with peak detector. 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission. 3. Final Level = Receiver Read level + LISN Factor + Cable Loss 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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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 be followed.

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	Frequencies	Field Strength	Measurement Distance	
	(MHz)	(micorvolts/meter)	(meters)	
4	0.009~0.490	2400/F(KHz)	300	
2	0.490~1.705	24000/F(KHz)	30	5
	1.705~30.0	30	30	
	30~88	100	3	
5	88~216	150	<u>3</u>	7
	216~960	200	3	
2	Above 960	500	3	
1				

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Limit (dBuV/m) (at 3M)			
PEAK	AVERAGE		
74	54		
	PEAK		

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5 (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).

			_
<b>7</b> °	Spectrum Parameter	Setting	
	Attenuation	Auto	
	Start Frequency	1000 MHz	X
	Stop Frequency	10th carrier harmonic	557
/	RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average	
			-
7	Receiver Parameter	Setting	
	Attenuation	Auto	$\checkmark$
	Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP	$\wedge$

 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 No deviation

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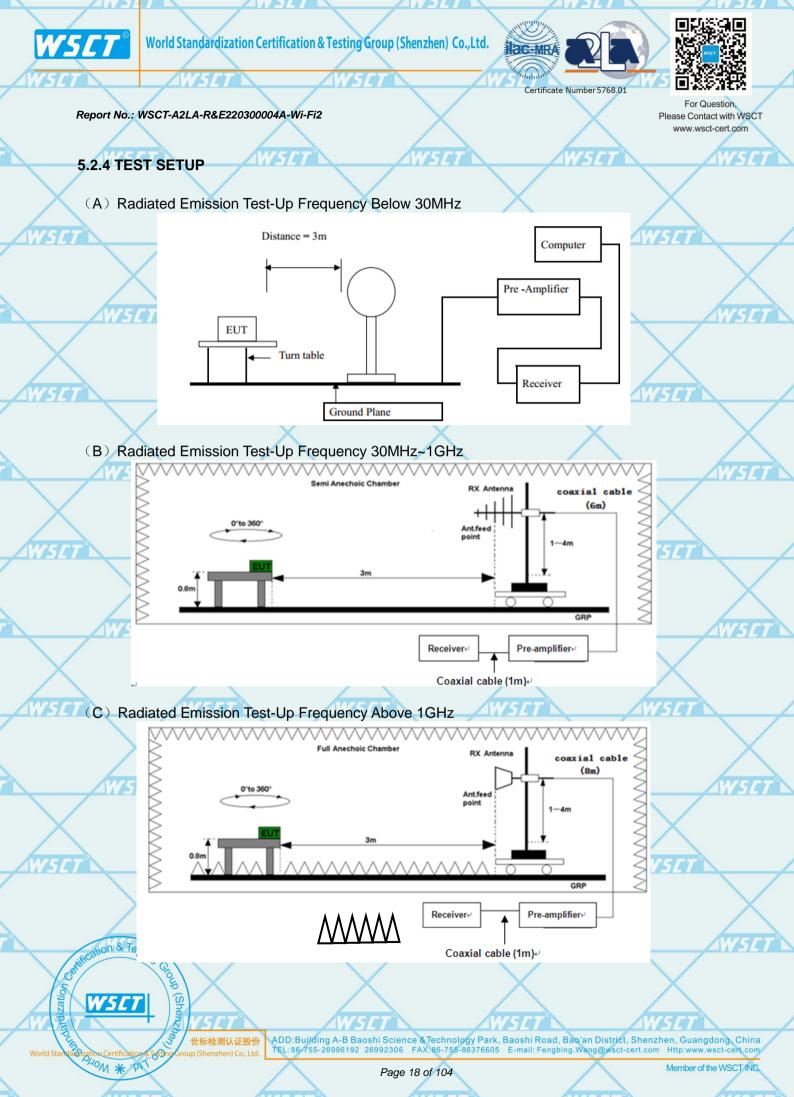
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#### 5.2.5 EUT OPERATING CONDITIONS

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.

### 5.2.5.1 RESULTS (BELOW 30 MHZ)

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

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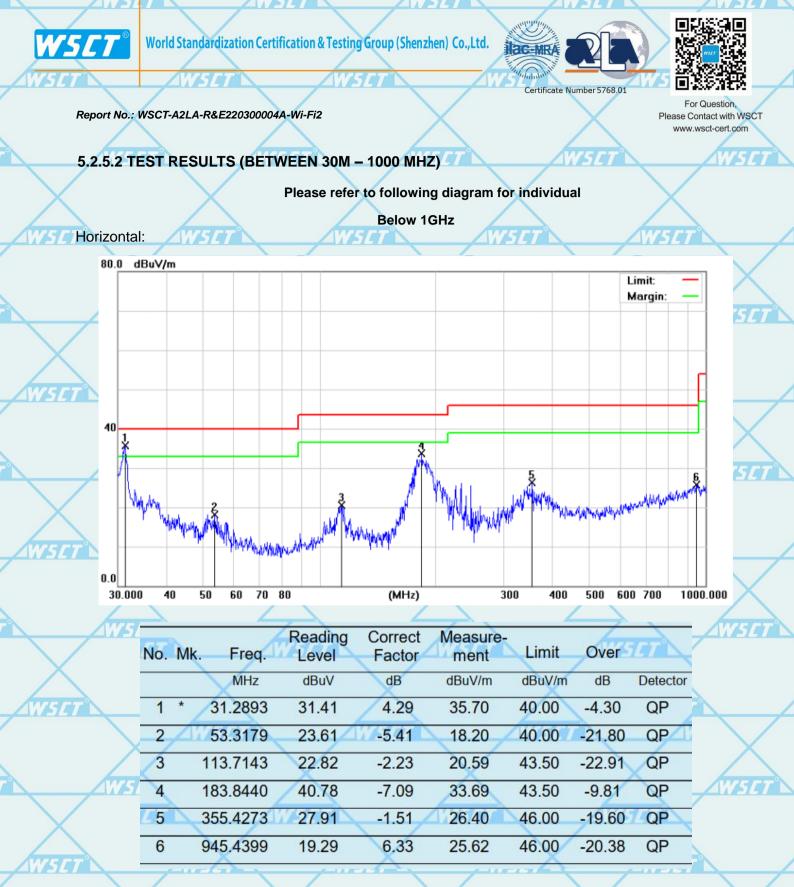
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Test)

No result in this part for margin above 20dB. Distance extrapolation factor =20 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.

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

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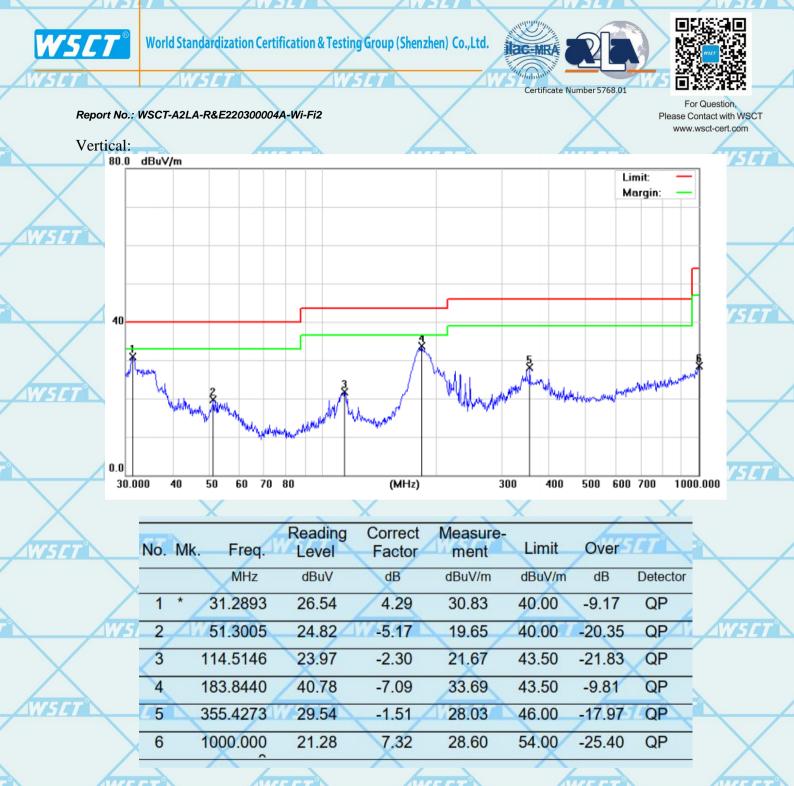
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Remark: All the modes have been investigated, and only worst mode is presented in this report.

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### 5.2.5.3 TEST RESULTS (ABOVE 1GHZ)

	$\mathbf{X}$		Above 10	GHz	$\times$		X	
Бира	Low channel: 2402MHz							
Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)	
(IVIHZ)	H/V	PK	AV	PK	AV	PK	AV	
10360	V	58.97	40.63	74	54	-15.03	-13.37	
15540	V	58.25	40.66 🦯	74	54	-15.75	-13.34	
10360	Н	59.28	40.65	- 74	54	-14.72	-13.35	A
15540	H	58.81	39.81	74	54	-15.19	-14.19	

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Fred	Low channel: 2402MHz								
Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m(dBuV/m)		Over(dB)			
(IVITZ)	H/V	PK	AV	PK	AV	PK	AV		
10360	V	58.87	39.96	74	54	-15.13	-14.04		
15540	V	59.99	39.15 🌙	74	54	-14.01	-14.85		
10360	Н	59.18	39.91	74	54 🖊	-14.82	-14.09		
15540	H	58.06	39.06	74	54	-15.94	-14.94		

Frag	Low channel: 2402MHz								
Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)		
	H/V	PK	AV	PK	AV	PK	AV		
10360	V	58.16	39.06	74	54	-15.84	-14.94		
15540	V	59.98	39.94	74	54	-14.02	-14.06		
10360	Н	58.61	40.51	74	54	-15.39	-13.49		
15540	Н	59.09	40.09	74	54	-14.91	-13.91 🔪		

	Frag	Low channel: 2402MHz								
	Freq. (MHz)	Ant.Pol	Emission Level(dBu		Limit 3m(dBuV/m)		Over(dB)			
	(IVI⊓∠)	H/V	PK	AV	PK	AV	PK	AV		
-	10360		59.55	39.46	74	54	-14,45	-14.54		
	15540	V	58.79	40.74	74	54	-15.21	-13.26		
	10360	Н	58.61	40.09	74	54	-15.39	-13.91		
	15540	Н	59.96	40.96 🦯	74	54 🧹	-14.04	-13.04		

Freq. = Emission frequency in MHz Reading level  $(dB\mu V)$  = Receiver reading Corr. Factor (dB) = Attenuation factor + Cable loss Level  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)Limit  $(dB\mu V)$  = Limit stated in standard Margin (dB) = Level  $(dB\mu V)$  – Limits  $(dB\mu V)$ 

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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 FCC part 15C section 15.407.

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FCC part 15C section 15.203 and FCC part 15C section 15.407 requirements: Systems operating in the 5150~5850MHz 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

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The EUT's antenna is a Integral Antenna., The antenna's gain is 4.69dBi and meets the requirement.



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## 7 FCC PART 15.407 REQUIREMENTS

7. 1 Test Equipment

Please refer to Section 4 this report.

### 7. 2 Test Procedure

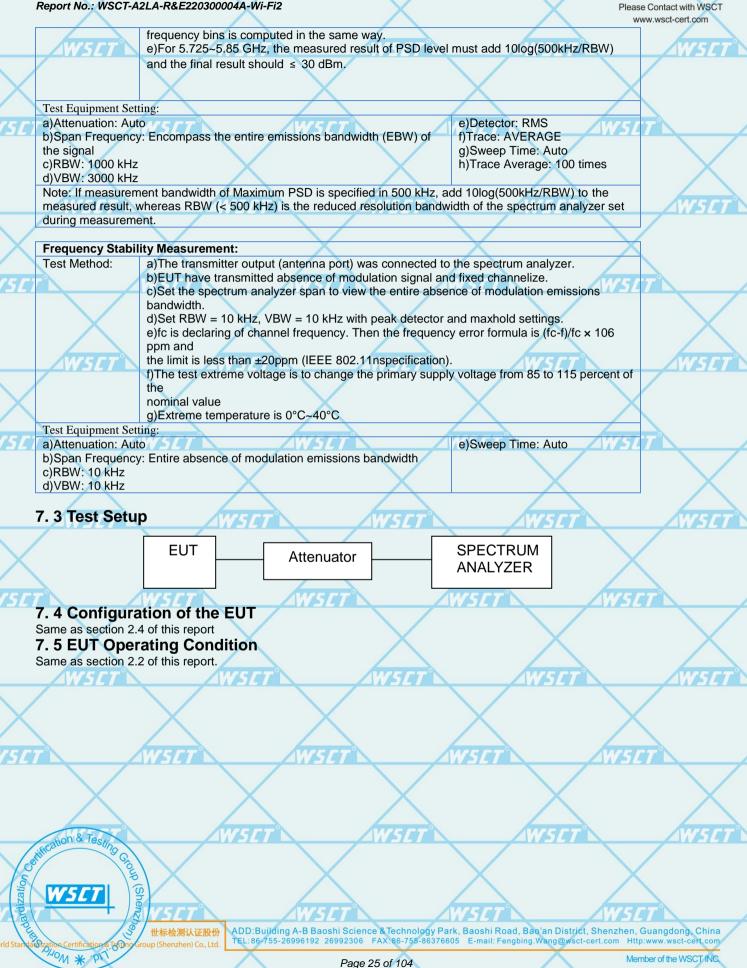
		and 99% Occupied Bandwidth:					
	Test Method:	a)The transmitter was radiated to the s	spectrum analyzer in peak hold mode.				
		b)Measure the maximum width of the	emission that is 26 dB down from the peak of the				
			setting of the analyzer. Readjust RBW and repeat				
	ZWSLIN	measurement as needed until the RBV		ZWSLI			
	T ( F ' ) ( ) (						
		ting – 26dB Bandwidth:	Test Equipment Setting – 99%% Bandwidth:				
	a)Attenuation: Auto		a)Span: 1.5 times to 5.0 times the OBW				
	b)Span Frequency: >		b)RBW: 1 % to 5 % of the OBW				
	c)RBW: Approxima	tely 1% of the emission bandwidth	c)VBW: ≥ 3 x RBW				
	d)VBW: VBW > RI	BW SLI	d)Detector: Peak				
	e)Detector: Peak		e)Trace: Max Hold				
	f)Trace: Max Hold						
	g)Sweep Time: Auto	o 🔨	XX	X			
	6 dB Bandwidth:						
	Test Method:	a)The transmitter was radiated to the	spectrum analyzer in neak hold mode				
	rest metriou.		with KDB789033 D02 v01 for Compliance Testing of	ZWSLI			
			structure (U-NII) Devices - section (C) Emission				
X		Bandwidth.					
			med in accordance with KDB662911 D01 v02r01				
		Emissions					
19		Testing of Transmitters with Multiple C					
		d)Measured the spectrum width with p	ower higher than 6dB below carrier.				
	Test Equipment Sett	ting:					
	a)Attenuation: Auto	X	e)Detector: Peak				
	b)Span Frequency: >	> 6dB Bandwidth	f)Trace: Max Hold				
	c)RBW: 100kHz		g)Sweep Time: Auto				
		AWSET	WSLT AVSLT				
	d)VBW: $\geq 3 \times RB^{3}$						
	Maximum Condu	cted Output Power Measurement:					
X	Test Method:	a)The transmitter output (antenna port	i) was connected to the power meter.				
		b)Test was performed in accordance v	with KDB789033 D02 v01 for Compliance Testing of				
		Unlicensed National Information Infras	structure (U-NII) Devices - section (E) Maximum				
74			ement using a Power Meter (PM) =>b) Method PM-G				
		(Measurement using a gated RF avera					
			rmed in accordance with KDB662911 D01 v02r01				
	X	Emissions		X			
		Testing of Transmitters with Multiple C	Jutputs in the Same Band				
			ed output power with multiple antenna systems, add				
	_ZWSET N	every result of the values by mathema					
	T ( F ' ) ( ) (						
/		ting: Detector - Average					
X	Power Spectral D		X				
	Test Method:	a)The transmitter output (antenna port	t) was connected RF switch to the spectrum analyzer.				
			with KDB789033 D02 v01 for Compliance Testing of				
5LI		Unlicensed National Information Infras	tructure (U-NII) Devices - section (F) Maximum Power				
		Spectral Density (PSD).					
		c)Multiple antenna systems was perfo	rmed in accordance KDB662911 D01 v02r01 in-Band				
	X	Power X	XXX	X			
		Spectral Density (PSD) Measurements	s (a) Measure and sum the spectra across the				
		outputs.					
	sion & Teou		output 1 is summed with that in the first spectral bin of				
/	incation & Testing		I bin of output 3 and so on up to the Nth output to	/			
		obtain the value for					
15	\je		spectrum. The summed spectrum value for each of				
lic.	WELTI		spectrum. The summed spectrum value for each of				
liza		the other					
Pel							
12	10	世标检测认证股份 ADD:Building A-B Baoshi S	cience & Technology Park, Baoshi Road, Bao'an District, Shenzhen,	Guangdong, China			
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7. 6 Limit 26dB Bandwidth and 99% Occup	ied Bandwidth:	WSET <sup>®</sup>	AWSET .	1 WS
Limit: No restriction li				
6 dB Bandwidth:				
Limit: For digital mod	ulation systems, the m	inimum 6dB bandwidth shall be	e at least 500 kHz. 📝	
Test Equipment Setting:				
a)Attenuation: Auto	W5E1	e)Detector: Peak WSET	/W5[	
b)Span Frequency: > 6dB Bandwid	ith	f)Trace: Max Hold		
c)RBW: 100kHz d)VBW: ≥ 3 x RBW	$\mathbf{\nabla}$	g)Sweep Time: Auto		
Maximum Conducted Output Po	wer Measurement:	$\wedge$		- /
	⊠5.15~5.	25 GHz		
Limit of Outdoor access point:	34	Limit of Indoor access poir	nt: WSL	
The maximum conducted output po	ower over the	The maximum conducted ou		
frequency band of operation shall r		frequency band of operation		
(30dBm) provided the maximum ar		(30dBm) provided the maxim	num antenna gain does	
exceed 6 dBi. If transmitting antenn		not		
greater than 6 dBi are used, both t		exceed 6 dBi. If transmitting		
conducted output power and the m		gain greater than 6 dBi are u		
spectral density shall be reduced be that the directional gain of the ante		conducted output power and spectral density shall be redu		
The maximum e.i.r.p. at any elevat		dB	accurby the amount in	
degrees as measured from the hor		that the directional gain of the	e antenna exceeds 6	
125 mW (21 dBm).	V5CT	dBi.//5/7	AWSET \	/W/S
Limit of Fixed point-to-point acce		Limit of Mobile and portab		/
The maximum conducted output pe		The maximum conducted ou		
frequency band of operation shall r		frequency band of operation	shall not exceed 250	
(30dBm). Fixed point-to-point U-NI		mW		
antennas with directional gain up to		(24dBm) provided the maxim not	num antenna gain does	7°
<ul> <li>corresponding reduction in the max output power or maximum power s</li> </ul>		exceed 6 dBi. If transmitting	antennas of directional	
fixed point-to-point transmitters that		gain greater than 6 dBi are u		
antenna gain greater than 23 dBi, a		conducted output power and		
maximum conducted output power		spectral density shall be redu	uced by the amount in	
power spectral density is required	for each 1 dB of	dB W5CT	WSET	W
antenna gain in excess of 23 dBi.		that the directional gain of the	e antenna exceeds 6	
The maximum conducted output po	5.25-5.35 GHz &		avcood the lessor of 250	
mW (24dBm) or 11 dBm 10 log B,				
antennas of directional gain greate				
maximum power spectral density s				
exceeds 6 dBi.				
	∑5.725~5			
The maximum conducted output po				
transmitting antennas of directiona power and the maximum power sp				
the antenna exceeds 6 dBi. Howey				/
transmitting antennas with		e i in devices operating in this		
directional gain greater than 6 dBi	without any correspond	ding reduction in transmitter co	nducted power.	
Power Spectral Density				
WSLT	⊠5.15~5.	25 GHz	W5	
Limit of Outdoor access point: 1		Limit of Indoor access poir	nt: 17 dBm/MHz	
Limit of Fixed point-to-point acce		Limit of Mobile and portab		
dBm/MHz		dBm/MHz		
5.25-5.35 GHz		11 dBm/MHz		
	WSFT <sup>°</sup>	11 dBm/MHz	WSFT <sup>®</sup>	
⊠5.725~5.85 GHz		30 dBm/500kHz		- /
Frequency Stability Measuremen				
Limit:		the band of operation under a	Il conditions of normal	
	pecified in the user's m		hum for the 5 OIL - Long	
Un-band emission W5C7 The transmitter	center frequency tole	ance shall be ± 20 ppm maxim	ium for the 5 GHz band	
	WSL1	cience & Technology Park, Baochi Po	ad Bao'an District Shenzhen	Guanadona, Ch
	ADD:Building A-B Baoshi	Science & Technology Park, Baoshi Ro 2306 FAX:86-755-86376605 E-mail:Fe	ad, Bao'an District, Shenzhen, ngbing.Wang@wsct-cert.com Htt	Guangdong, Ch p:www.wsct-cert.c





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(IEEE 802.11n specification)

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### 7.7 Test Result

A. 26dB Bandwidth and 99% Occupied Bandwidth

	Product	: EUT-Sample	Test Mode	: See section 2.2	
	Test Item	: 26dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25 °C	WSET
,	Test Voltage	: DC 11.55V	Humidity	: 56%RH	/
	Test Result	PASS		XX	

### 26dB Bandwidth

#### 20MHz(IEEE 802.11a/n/ac/ax)

Bandi					_
Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result	
Low High	5180 5240	25.288 25.481	ET	PASS	
Band2					
Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result	
Low High	5260 5320	25.481 25.192	WSET	PASS PASS	
·			1		

#### Band3

15

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result	
Low	5500/2//	25.192		PASS	AWSET N
High	5700	25.385		PASS	

#### Band4

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
Low	5745	24.615		PASS
High	5825	24.904		PASS



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#### 40MHz(IEEE 802.11n/ac/ax)

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### IEEE 802.11n 5G 40MHz

Band	1		

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
Low /	5190 <b>5</b> 190	44.519	WEFT	PASS
High	5230	44.327		PASS

#### Band2

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
Low	5270 261	44.904		PASS
🧹 High 🔪	5310	44.904		PASS

#### Band3

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
Low	5510	47.115		PASS
High	5670	45.865		PASS
			Ā	A

#### Band4

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
Low	5755	45.353		PASS
High	5795	56.731	×	PASS

#### 80MHz(IEEE 802.11n/ac/ax) Band1

Sandi				
Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
Low	5210	86.410		PASS

#### Band2

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
Low	5290	87.179		PASS
	75/T	AWSET	WSFT <sup>®</sup>	W/S

#### Band3

anao					
Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result	
Low -	5530 cc r T	84.103		PASS	
High	5610	86.154			

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	Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result	
/	Low	5775	85.897	/N 3L 1	PASS	



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PASS

PASS

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5260

5320

#### 99% Occupied Bandwidth

20MHz(IEEE 802.11a)	/n/ac/ax)-the worst			AVY JLI ING
Band1				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
Low	5180	17.308		PASS
🖹 High / 🚺	577 5240	17.308	WSLT°	PASS V/S
Band2			/	
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit	Result

#### Band3

Low

High

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
Low 🦯	5500	17.404		PASS
High	5700	17.404		PASS

17.308 17.308

#### Band4

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result	4
Low	5745 SLI	17.404		PASS	
High	5825	17.308		PASS	/

#### 40MHz(IEEE 802.11/n/ac/ax)

#### Band1

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result	
Low	5190	36.442		PASS	
High	5230	36.442		PASS	And and a second
Band2					
	Frequency	00% Occupied	FCC Limit		

Channel	(MHz)	Bandwidth (MHz)	(kHz)	Result
Low	5270	36.442		PASS
💊 High 🏑	5310	36.442		PASS
			- W 5/ / N	

#### Band3

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
Low	5510	36.538		PASS
High	5670 5 77	36.442	FET°	PASS

#### Band4

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-	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
2	Low	<b>Γς Γ Τ<sup>°</sup>57</b> 55	36.838	WSET	PASS MICE
24	High	5795	36.218		PASS



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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/ 世标检测认证股份 oup (Shenzhen) Co., Ltd.

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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2

80MHz(IEEE 802.11/ac/ax)-worst

Band1				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
Low	5210	75.385		PASS
	ISET <sup>®</sup>	WEET	WSET	

#### Band2

Banaz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result	
Low	5290	75.128	· · · ·	PASS	Autor

#### Band3

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result	
Low	567 5530	76.667	ZWSET	PASS // 5	
High	5610	75.128			

#### Band4

	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result	WISTT
	Low	5775	75.385		PASS	
1						



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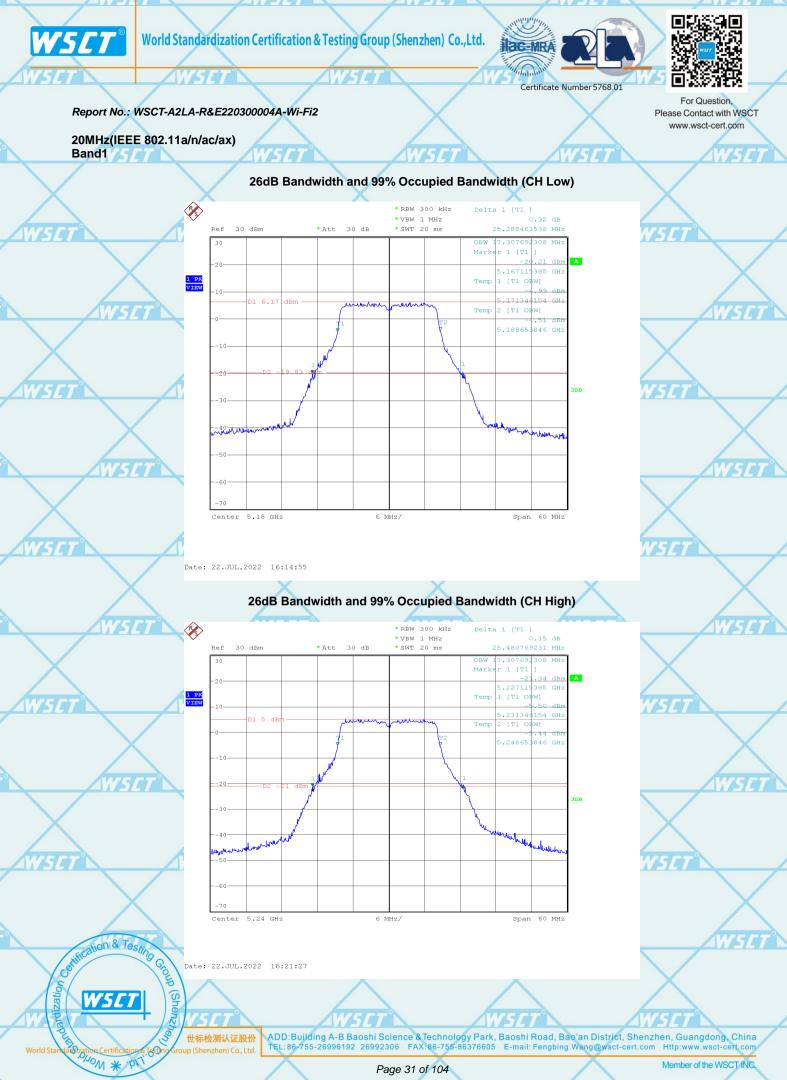
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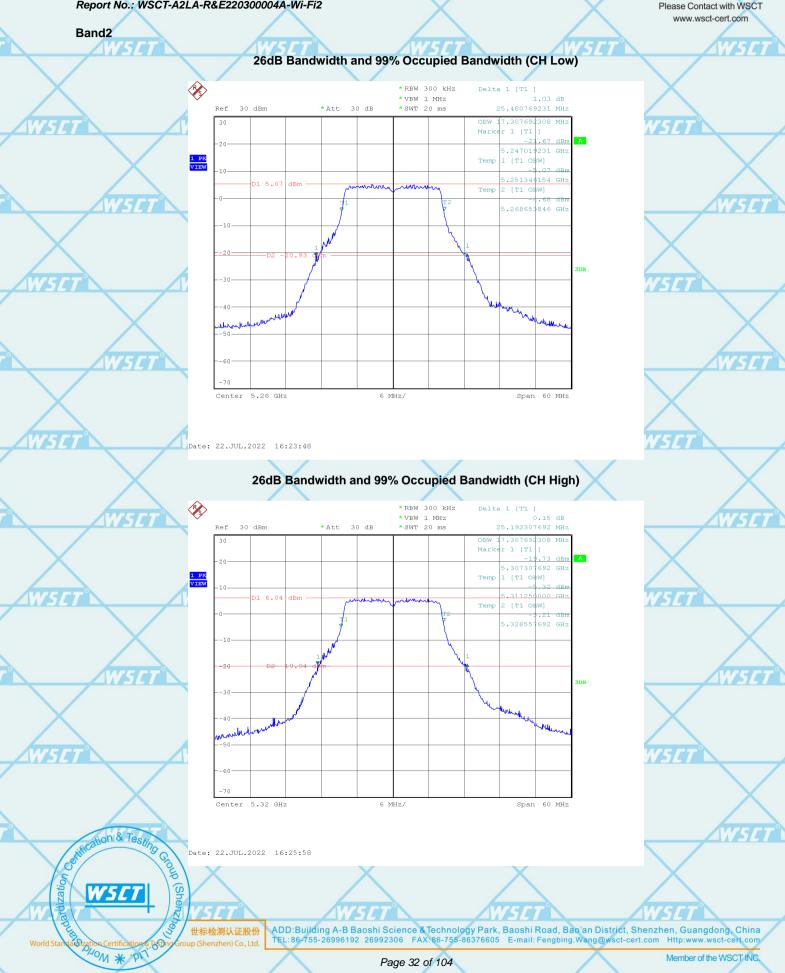
Page 31 of 104





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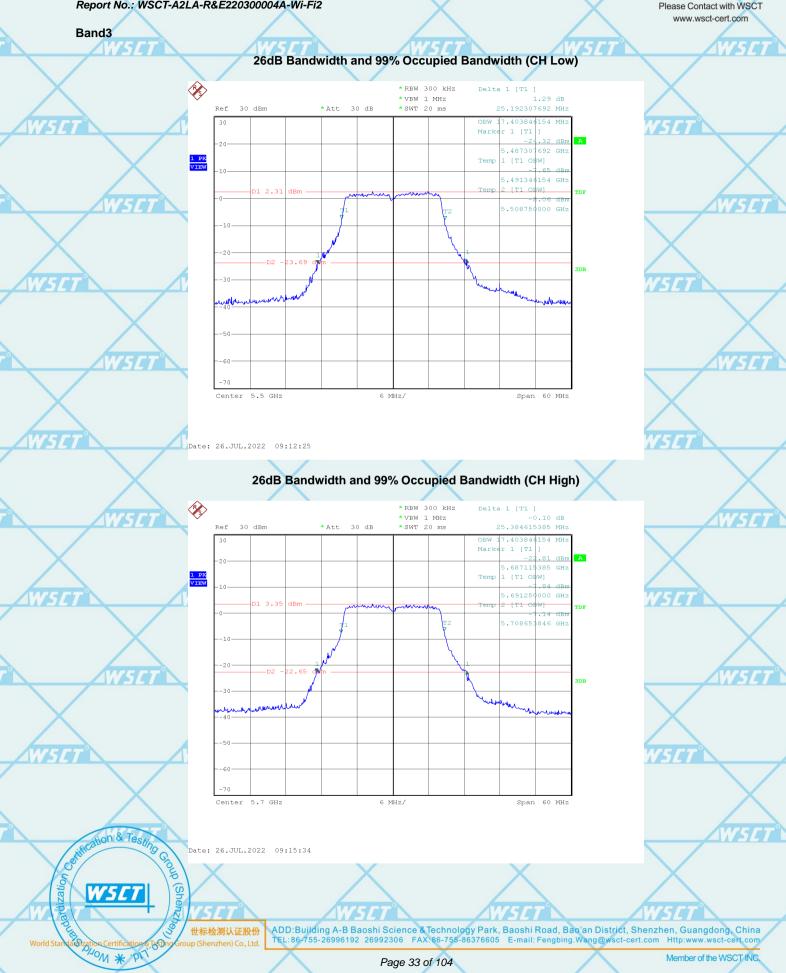






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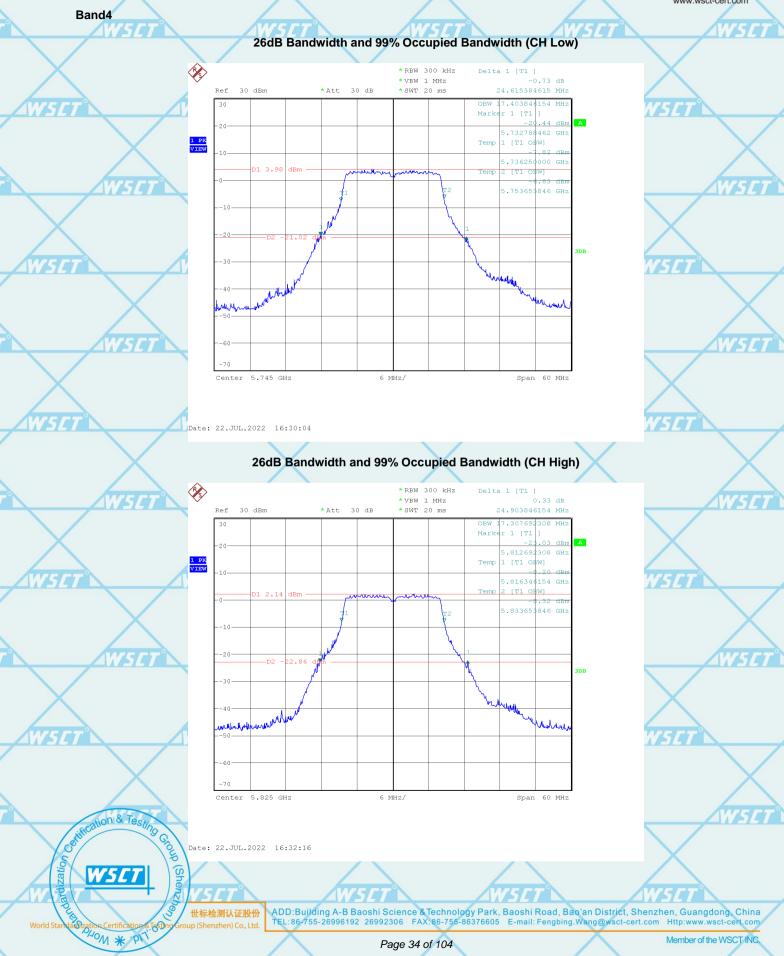




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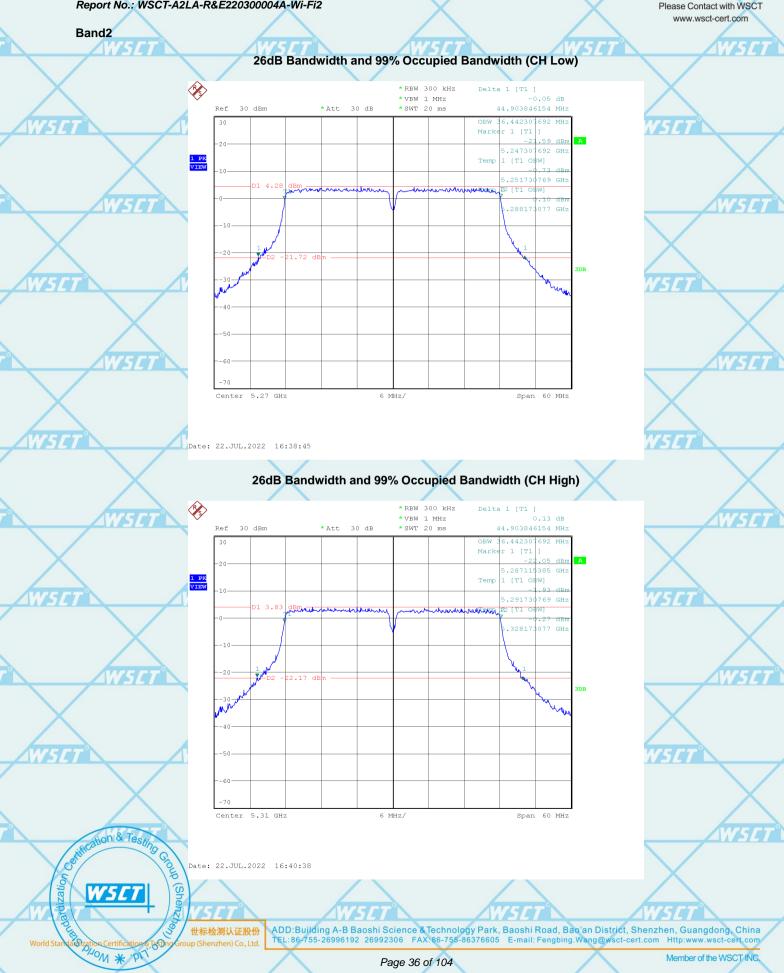






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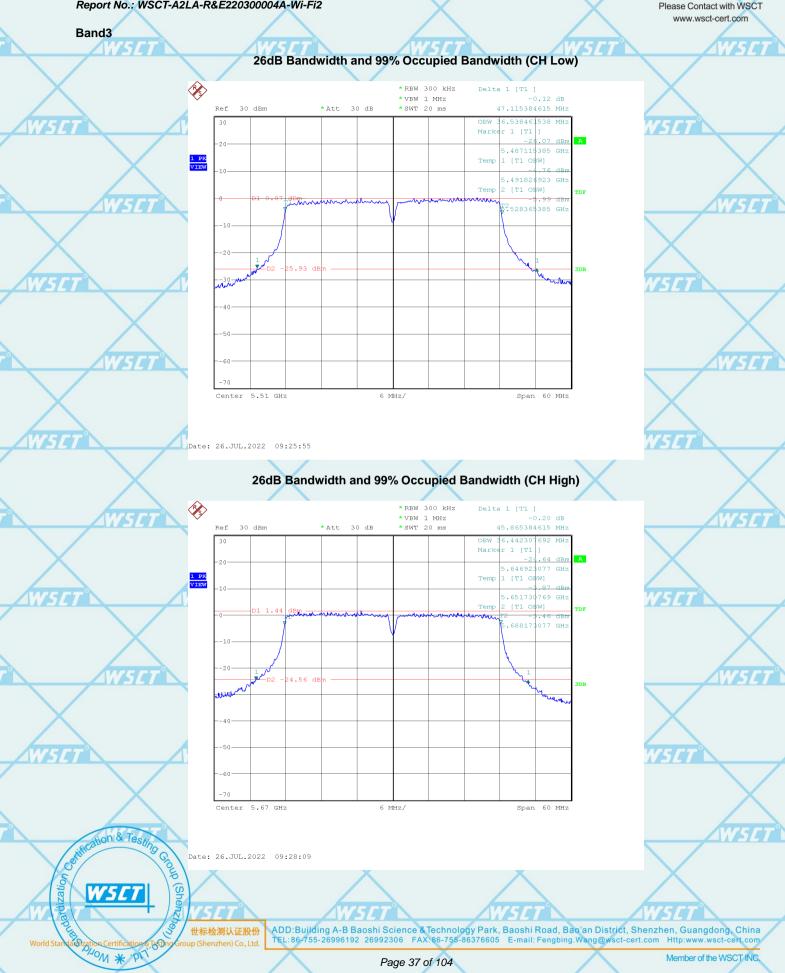




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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2





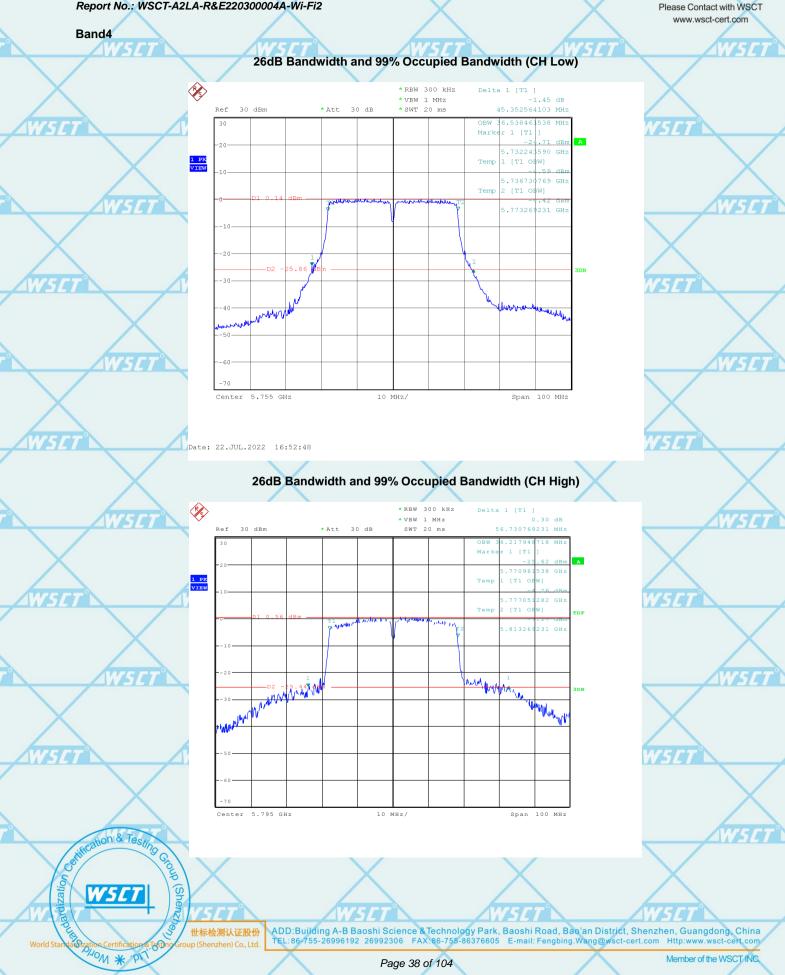


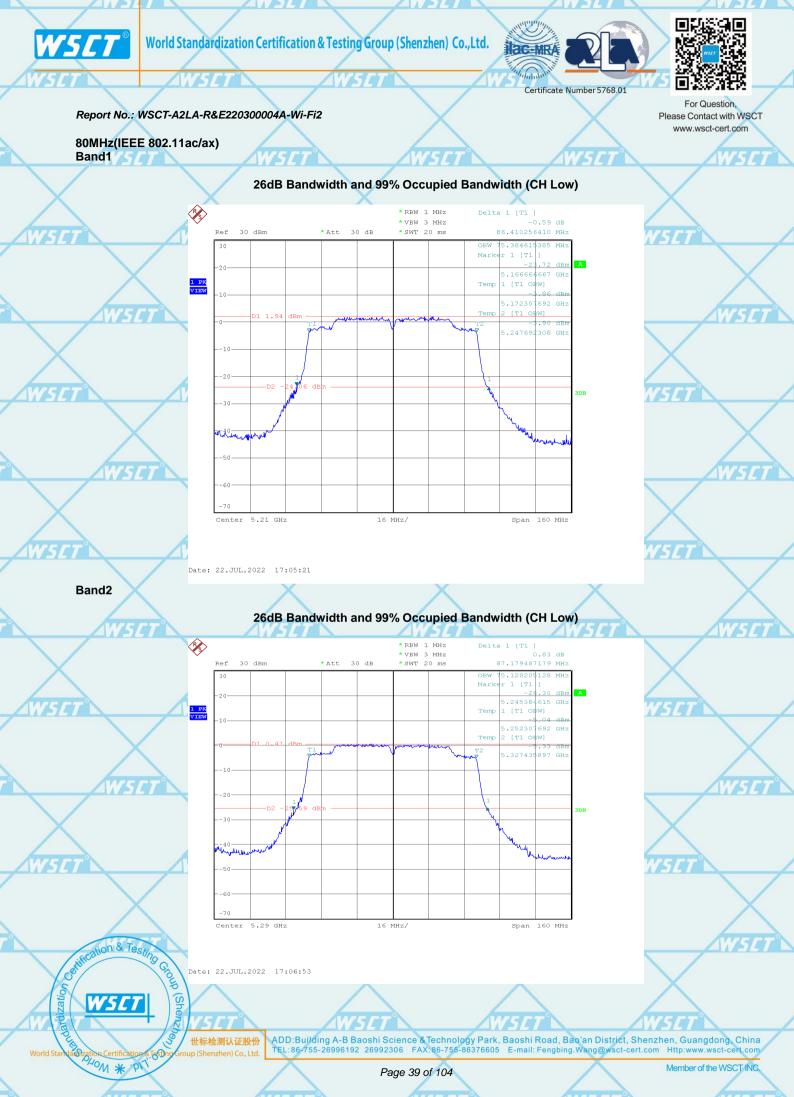
For Question,

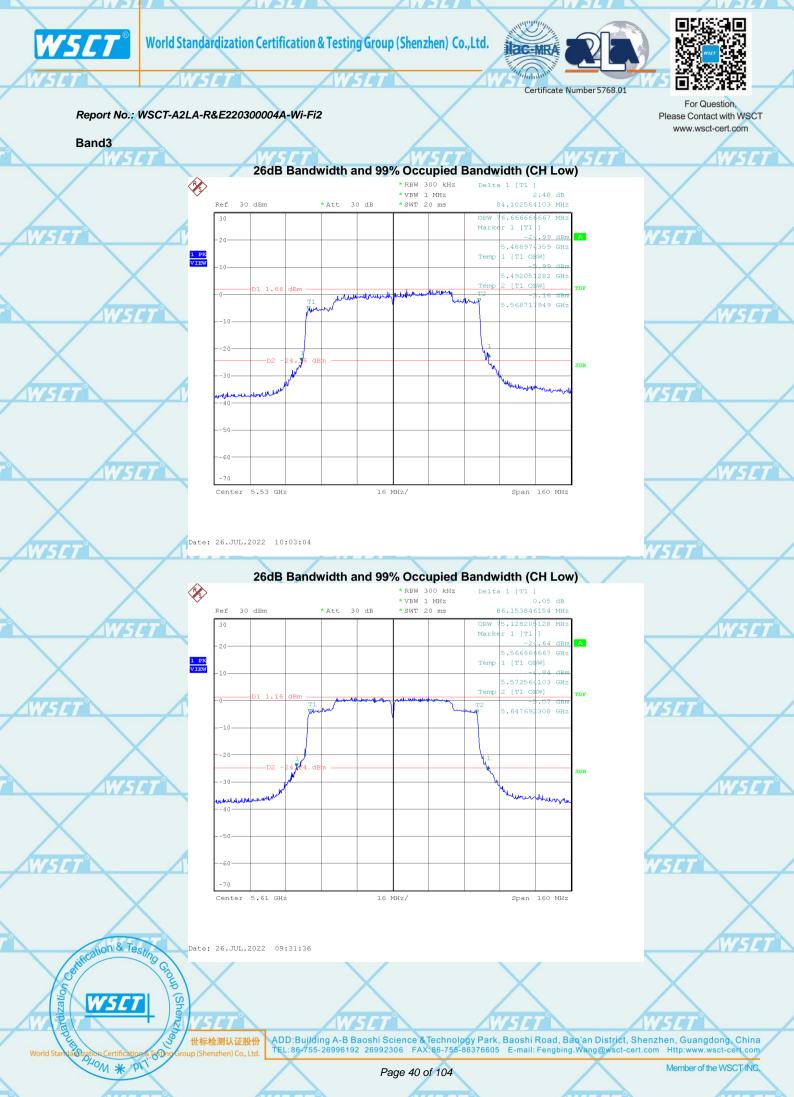
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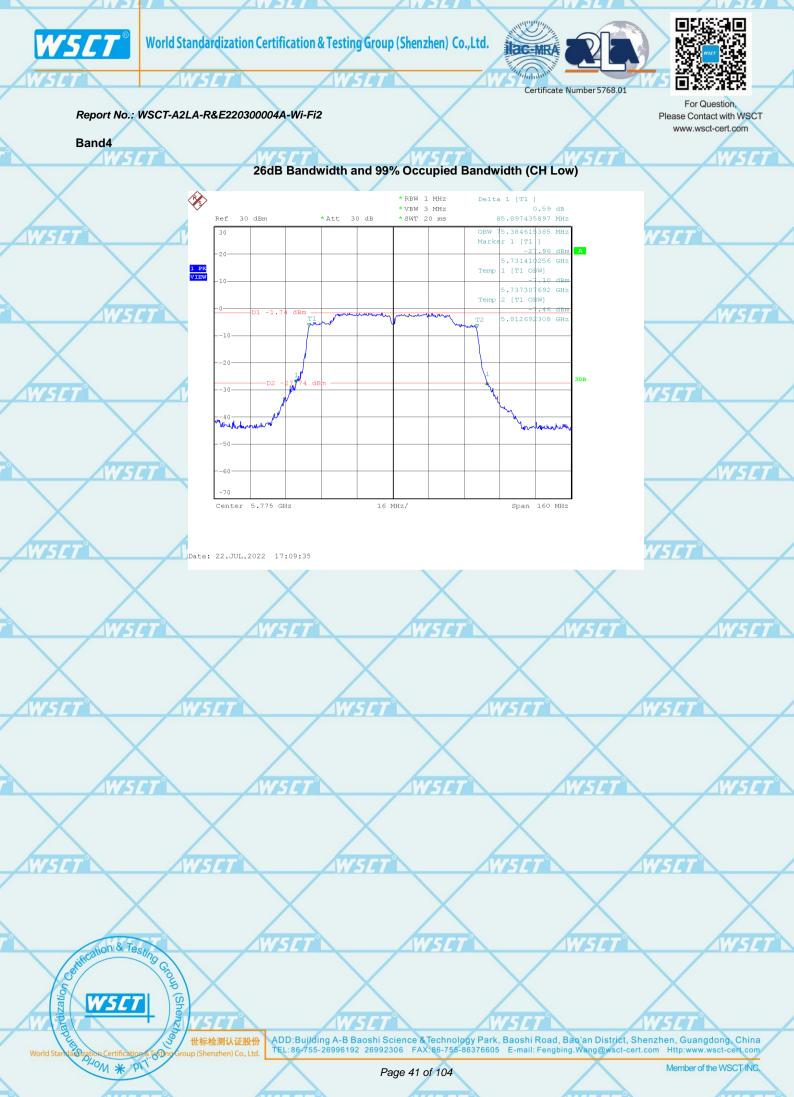
Certificate Number 5768.01

Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2













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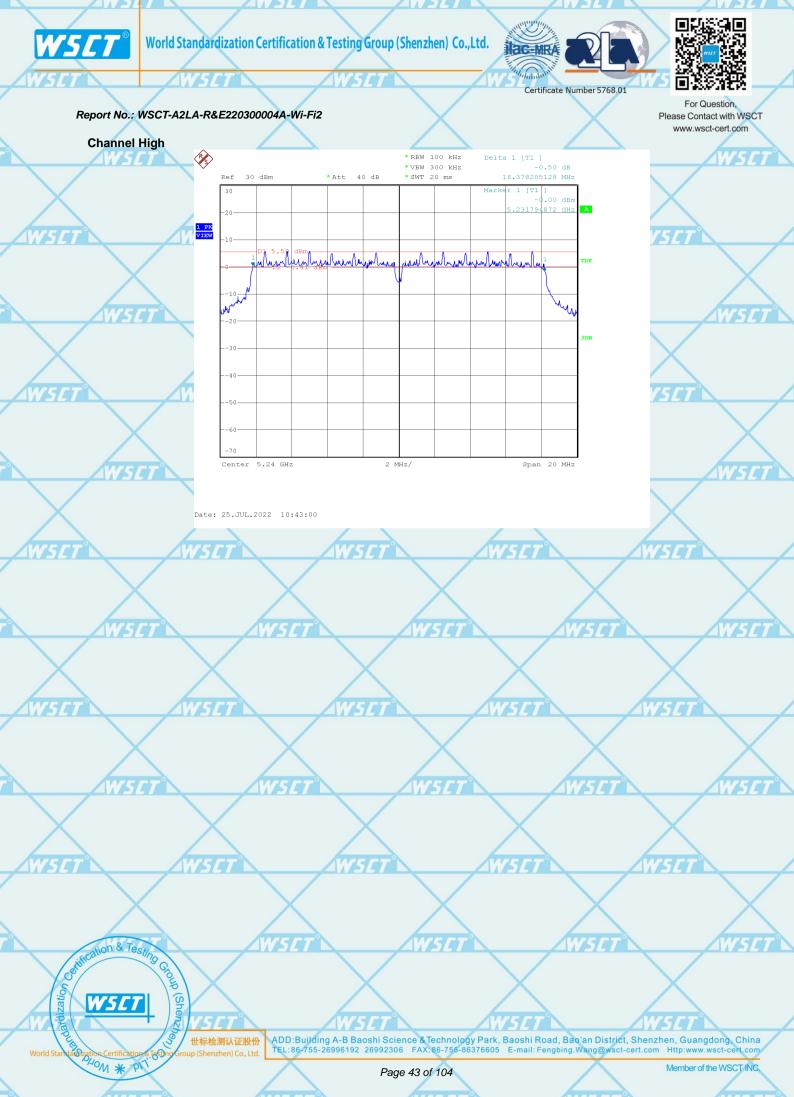
Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2

# B. 6 dB Bandwidth

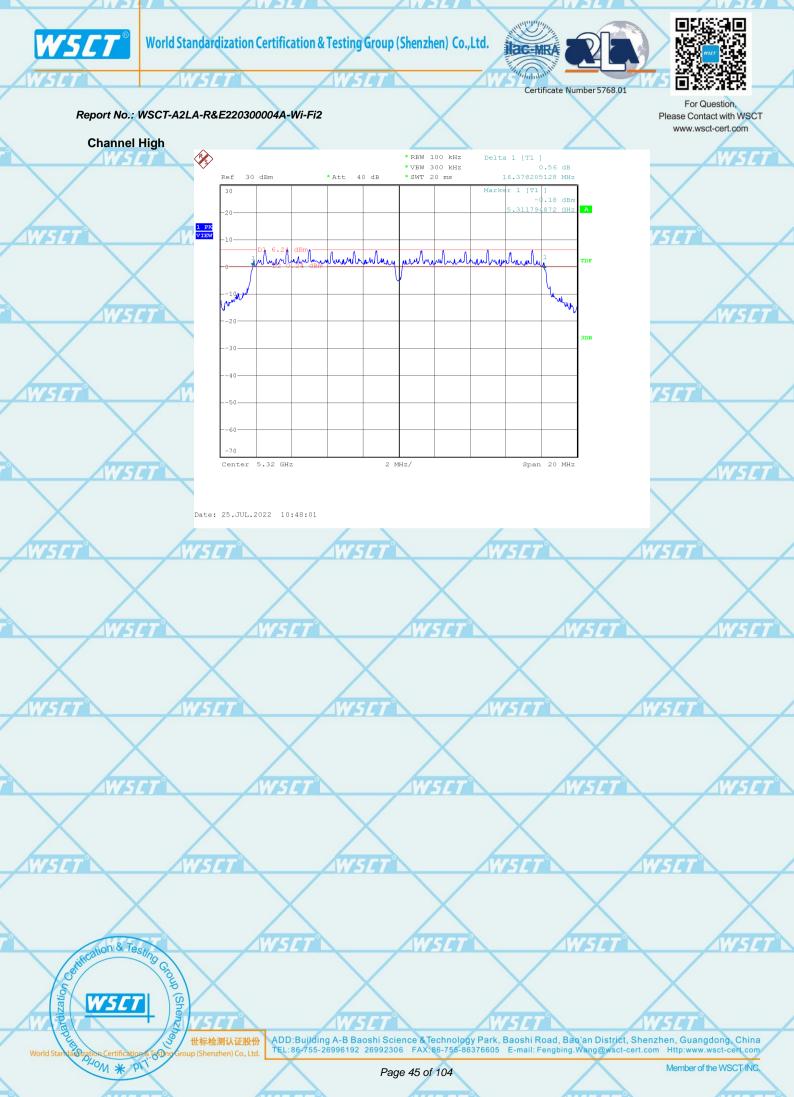
	AWSET	WSLT N	WSET N	<u>WSET</u>	
/	Product	: EUT-Sample	Test Mode	: See Section 2.2	
	Test Item	: 6 dB BW	Temperature	:25 ℃	
27	Test Voltage	: DC 11.55V	Humidity	: 56%RH	
	Test Result	PASS			

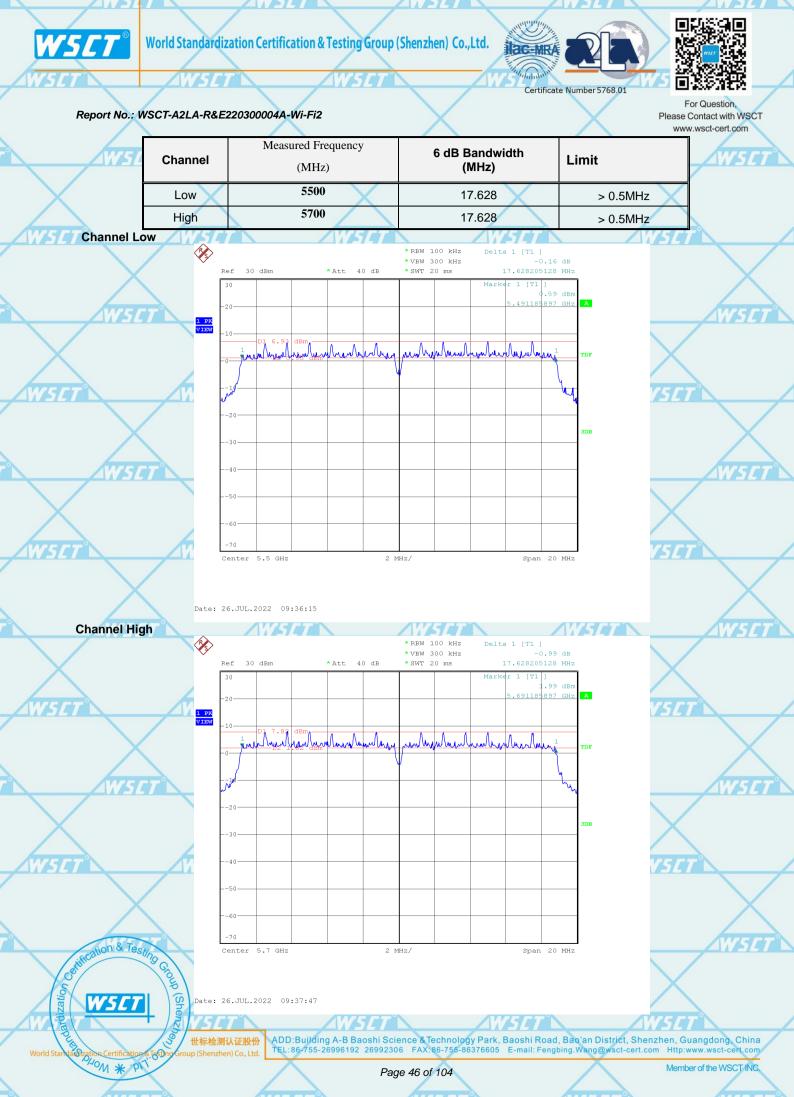
## 20MMHz(IEEE 802.11a/n/ac/ax)

20MMHz(IEE	E 802.11a/n/ac/a	κ) <u> </u>	$\sim$		$\wedge$
wst	Channel	Measured Frequency (MHz)	6 dB Bandwidth (MHz)	Limit	WSET
	Low	5180	16.378	> 0.5MHz	
	High	5240	16.378	> 0.5MHz	
W5C7Channel Lov	w wsrr	AWSET?	WSFT	AW50	7
	Ref	30 dBm * Att 40 dB	* RBW 100 kHz Delta 1 [T1 ] * VBW 300 kHz 0.37 * SWT 20 ms 16.378205128		
X	30		Marker 1 [T1 ]	dBm	X
AVIST	-20-		5.171794872		WSET
	1 PK VIEW -10-	D1 6 08 dBm.		_	
X	-0	and som and	and have have have have the	TDF	
	10			4	
WSET	-20-			~~~~ <u>752</u>	
	30-			3DB	$\sim$
WSC.	7°				
	50-				
	60-				
WSET	-70 Cent	er 5.18 GHz 2 N	IHz/ Span 20	МН2 750	
X	Date: 25.J	JL.2022 10:40:25			X
NWSE		WSET N	WSET <sup>®</sup>	W5/T	WSET
					/
X	X	X	X	X	
	WSET			hard	
		WSET	WSET	W5L	
$\times$		$\times$	$\times$	$\times$	$\times$
stcation & Testi	20	AWSET .	AWSET	AWSET	W5ET N
Contra	Greek			$\rightarrow$	
TET WSET	Index (				
WE	- NYSET	W5ET°	WSET	WI5L	
World Stantardization Certification	世标检测认证 Tasting Group (Shenzhen) Co	股份 ADD:Building A-B Baoshi Sci TEL:86-755-26996192 2699230	ence & Technology Park, Baoshi Road 16 FAX:86-755-86376605 E-mail: Feng	, Bao'an District, Shenzhen, bing.Wang@wsct-cert.com Http	Guangdong, China p:www.wsct-cert.com
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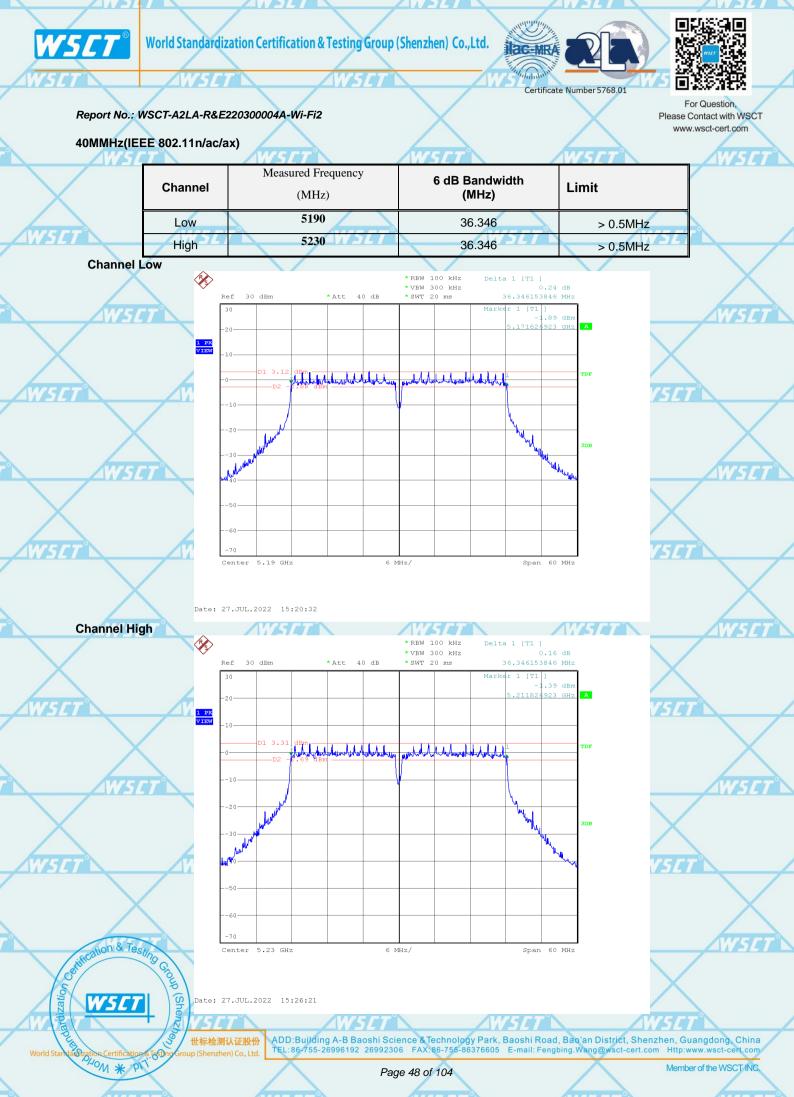












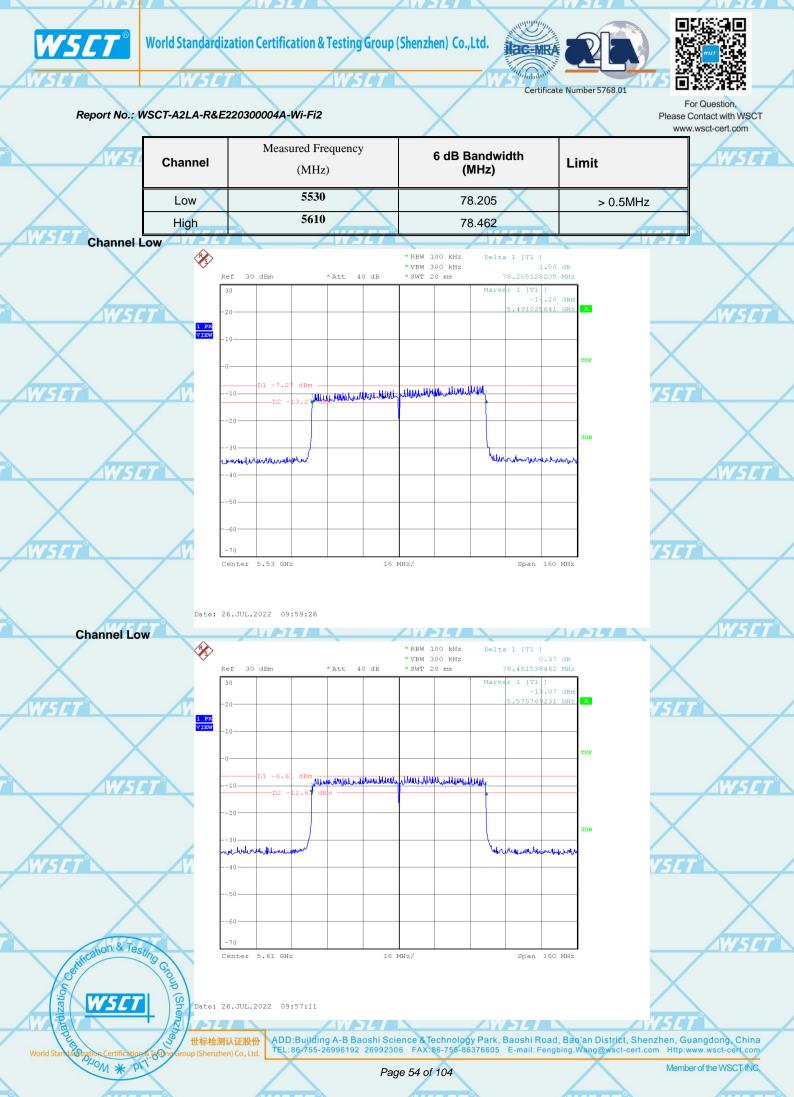
















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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2

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	C. Peak Power	WSET		WSET	wset		ws	-
/	Product	: EUT-Sample	$\checkmark$	Test Mode	: See Section 2.2			
$\langle$	Test Item	: Peak Power		Temperature	: 25 °C			
<b></b>	Test Voltage	: DC 11.55V	EFT	Humidity	: 56%RH	AWS I		
	Test Result	PASS						1

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Certificate Number 5768.01

20MMHz(IEEE 802	2.11a/n/ac/ax)-worst		$\square$		
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result	
Low	5180	15.44	0.25/24.00	PASS	
High	5240	15.92	0.25/24.00	PASS	
Band2					/
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result	
Low	5260	15.73	0.25/24.00	PASS	/
High	5320	13.94	0.23/24.00	PASS	$\boldsymbol{\boldsymbol{C}}$
Band3					
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result	CT
Low	5500	13.20	0.25/24.00	PASS	
High	5700	14.22	0.25/24.00	PASS	
Band4					
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result	
Low	5745	12.37	1.00/30.00	PASS	/
High	5825	9.32	1.00/30.00	PASS	
				/	

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40MMHz(IEEE 802.11n/ac/ax)-worst

Band1/5/77	W5/		WSET N	W5
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	5190	13.16	0.25/24.00	PASS
High	5230	12.08	0.23/24.00	PASS
Band2	WSFT	WSFT		NSIT
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	5270 X	11.65	X	PASS
LOW	5210	11.00	0.25/24.00	

Band3

Bulluo				
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	5510	12.64	0.05/04.00	PASS
High	5670	13.44	0.25/24.00	PASS

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## Band4

Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	5755	10.90	1.00/30.00	PASS
High	5795	10.49	1.00/30.00	PASS

80MMHz(IEEE 802.11ac/ax)-w	orst

Band1				
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	5210	13.05	0.25/24.00	PASS 🔪
X	X		0.23/24.00	
Band2				
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	5290	13.81	0.25/24.00	PASS
			0.23/24.00	X

## Band3

15

Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	5530	11.05	0.25/24.00	PASS
High	5610 🦯	12.42	0.23/24.00	

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Band4				1125
Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	5775	11.37	1.00/30.00	PASS
			1.00/30.00	



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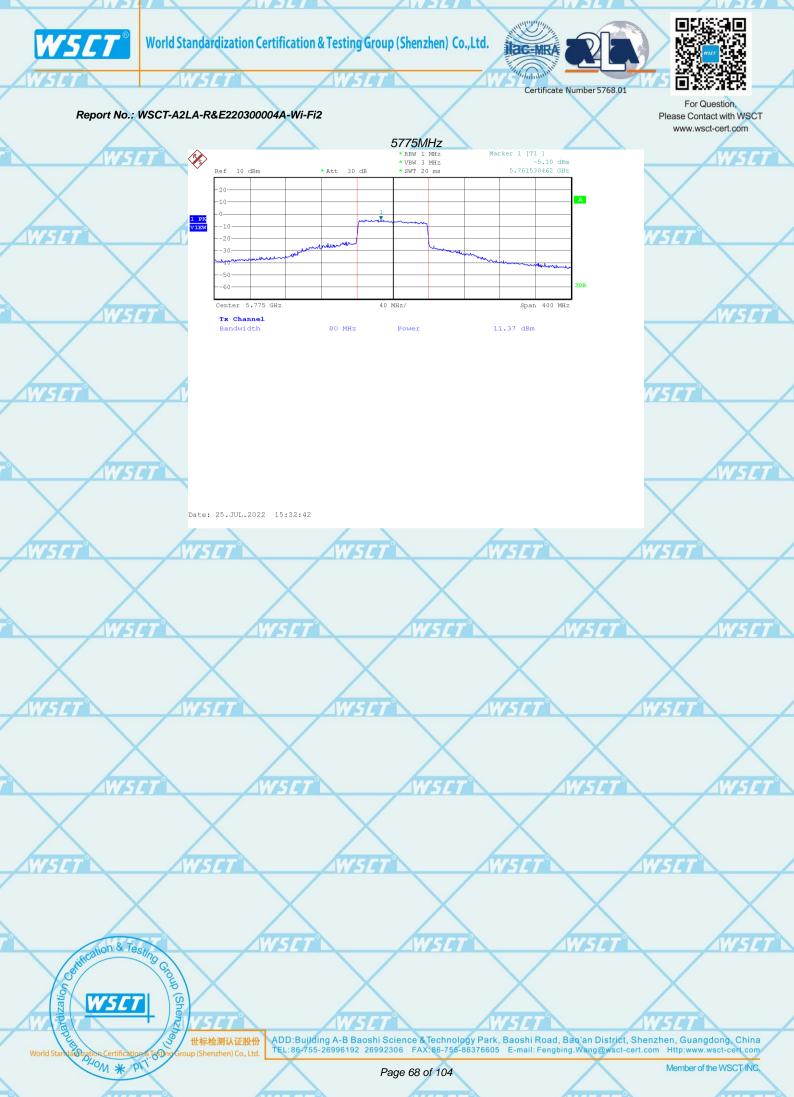
















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## Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2

## **D. Peak Power Spectral Density**

	Product	: EUT-Sample	Test Mode	: See Section 2.2	
$\langle$	Test Item	: Peak Power Spectral Density	Temperature	: 25 °C	
<b></b>	Test Voltage	: DC 11.55V	Humidity	: 56%RH	WSIT
	Test Result	PASS			

## 20MHz(IEEE 802.11a/n/ac/ax)

Band1				
Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5180	2.65	11dBm/MHz	PASS
High	5240	2.36		PASS >

## Band2

Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5260 🗙	2.20		PASS
High	5320	2.45	11dBm/MHz	PASS

## Band3

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Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5500	-0.20	11dBm/MHz	PASS
📐 High 🖊	5700	0.95		PASS
Band4				
Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5745	-0.65	30dBm/500 kHz	PASS
High	5825	-4.05	(26.99dBm/MHz)	PASS
		( )		



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#### Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2

	40MHz(IEEE 802.11n/	/ac/ax)				www.wsci-ce
	Band1/5/77	WSET			WSLT N	
/	Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result	
	Low	5190	-3.54	11dBm/MHz	PASS	
	High	5230	-3.05	TIGBILINITZ	PASS	
	Band2	<u>15/77 \</u>	AWSET <sup>®</sup>	AWSET?	W75	
	Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result	
	Low	5270			PASS	
	Low		-3.65	11dBm/MHz		_
	High	5310	-3.53		PASS	
	Band3 5CT	WSET	W	ET N	WSET	$-\Lambda$
1	Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result	
1	Low	5510	-6.29		PASS	
	🔪 High 🖌	5670	-5.31	11dBm/MHz	PASS	
L		SLI	AWSLI	ZWSLI		
	Band4					

Dunut				
Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5755	-8.03	30dBm/500 kHz	PASS
High	5795 5 7	-8.07	(26.99dBm/MHz)	PASS

# 80MHz(IEEE 802.11/ac/ax)

Danui				
Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5210	-5.49	11dBm/MHz	PASS
Band2		/		
Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5290	-4.51		PASS
	X	X	11dBm/MHz	

#### Band3

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Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5530 🗸	-3.16	11dBm/MHz	PASS
High	5610 🦯	-4.30		

#### Band4

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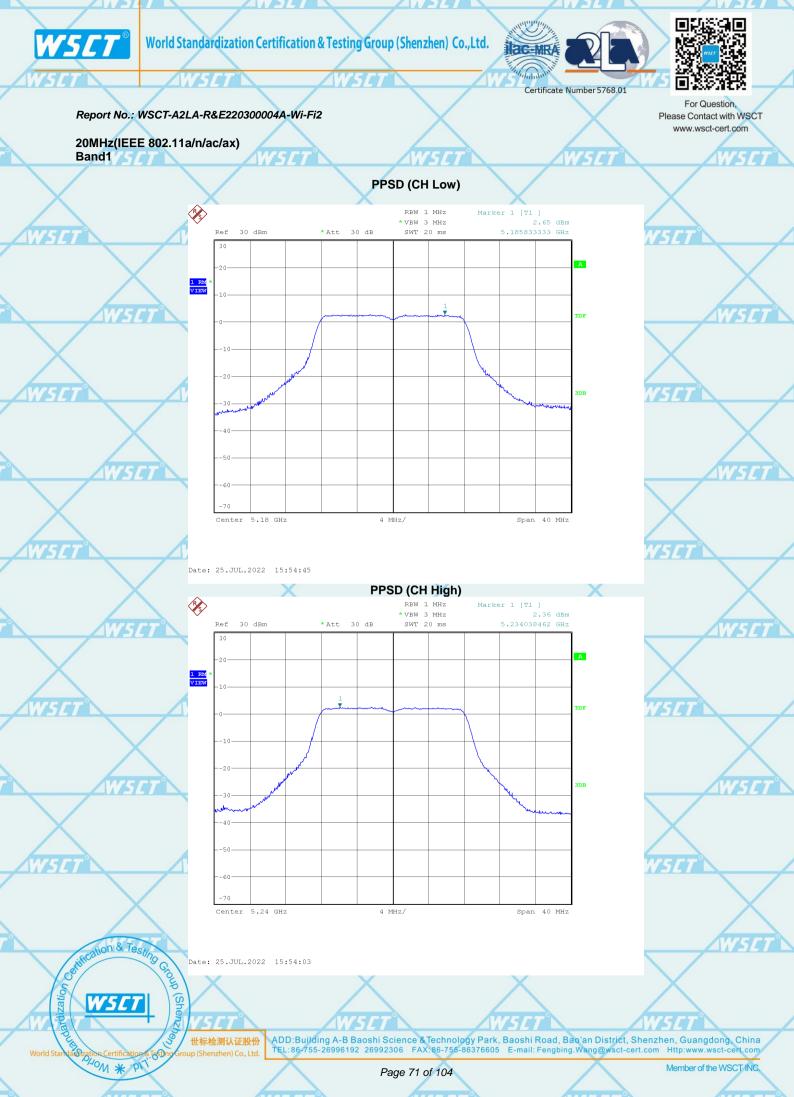
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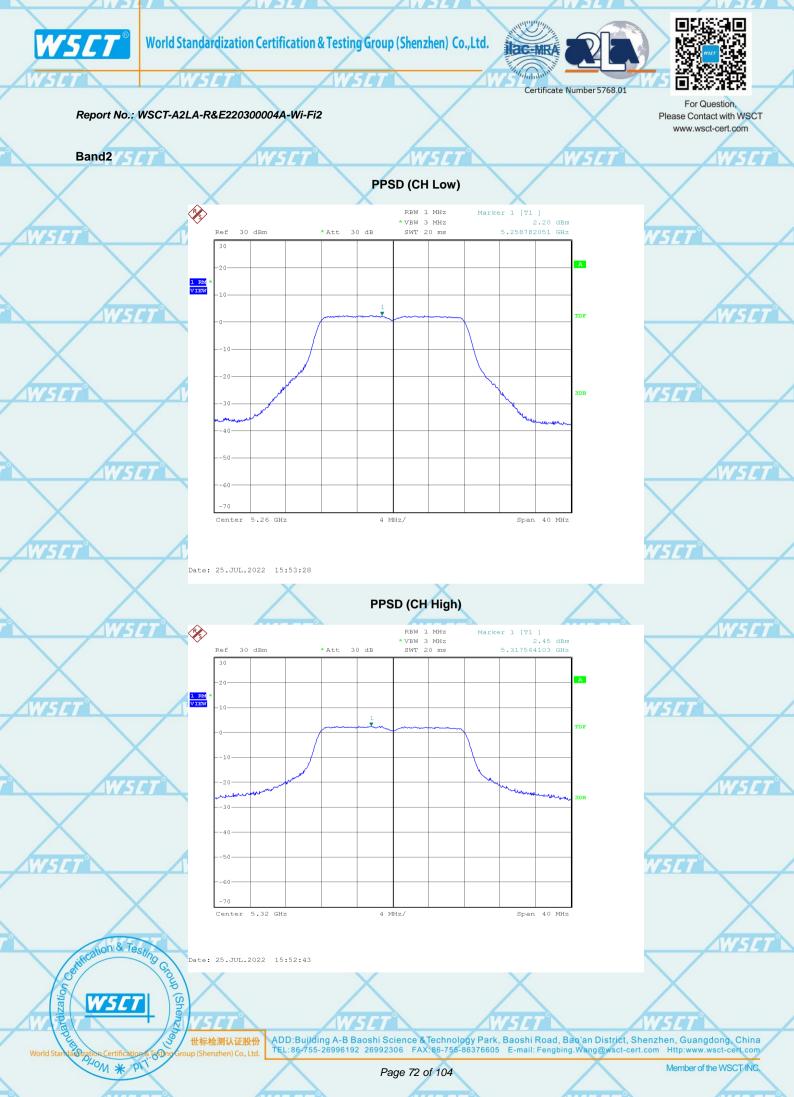
Dullut				
Channel	Frequency (MHz)	PPSD (dBm)	FCC Limit (kHz)	Result
Low	5775	-9.59	30dBm/500 kHz	PASS
			(26.99dBm/MHz)	

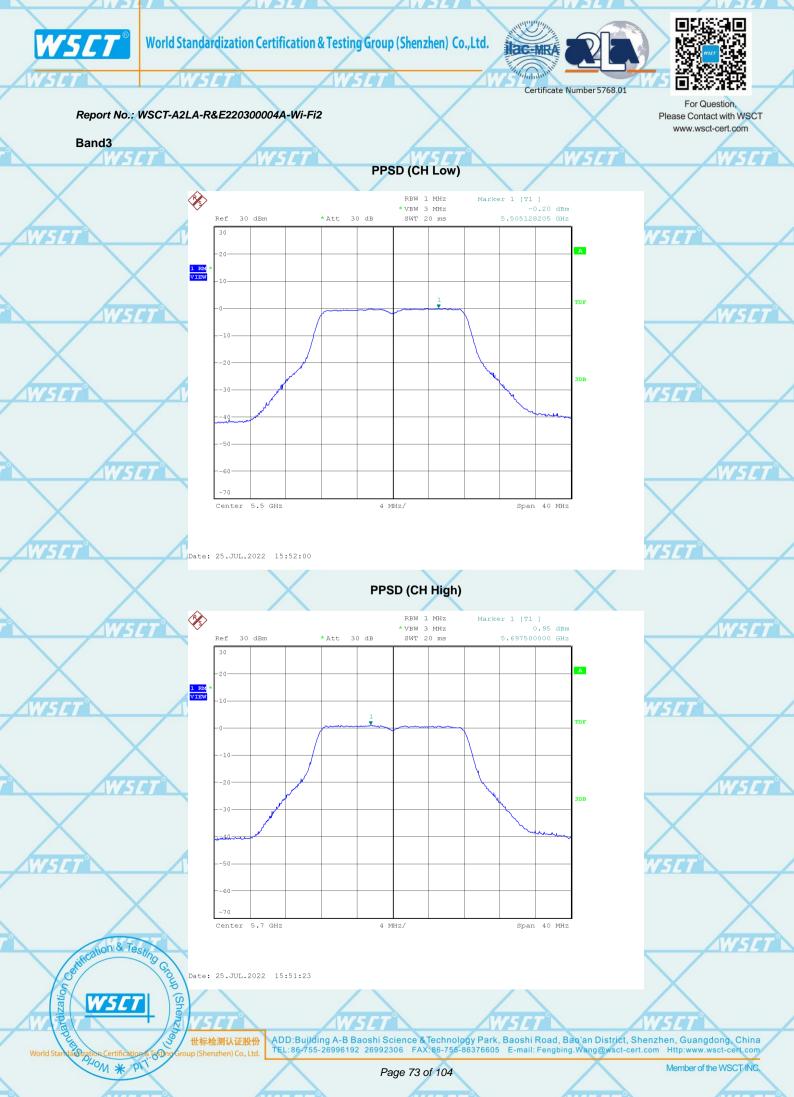
Note: For 5.725~5.85GHz (Band4): Power Density (dBm/500kHz)= Power Density (dBm/MHz)- 10log(500kHz/RBW) (dB)

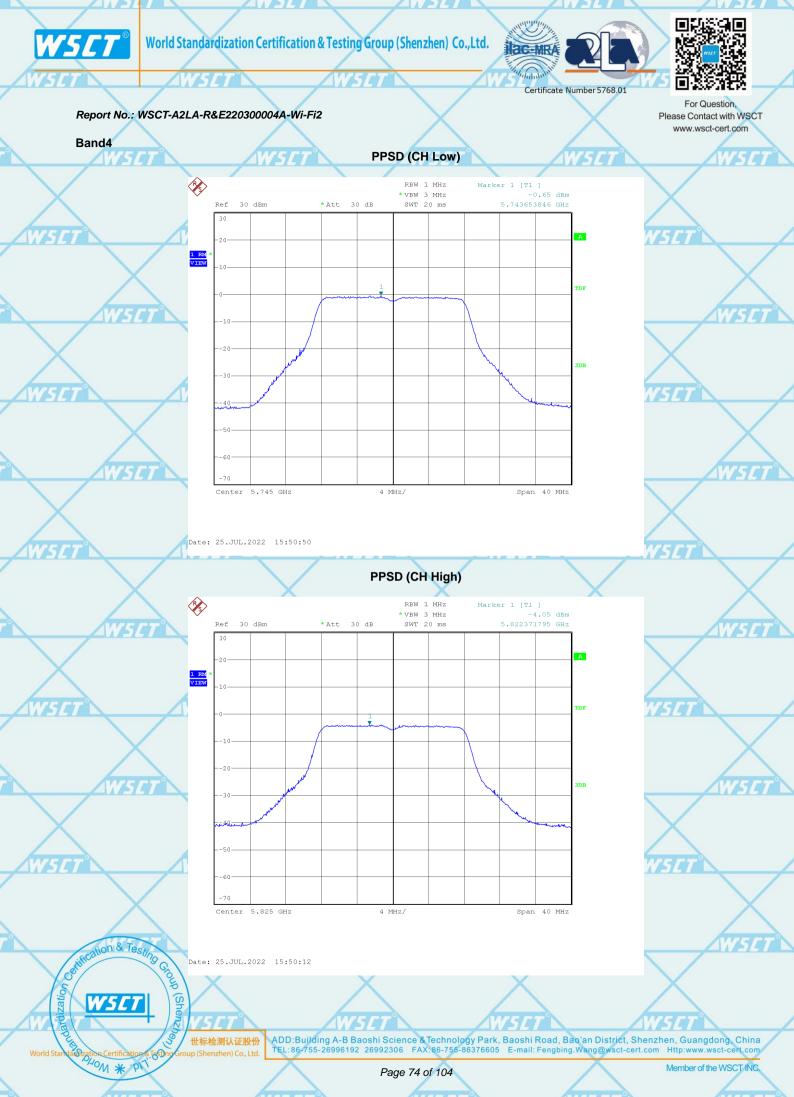


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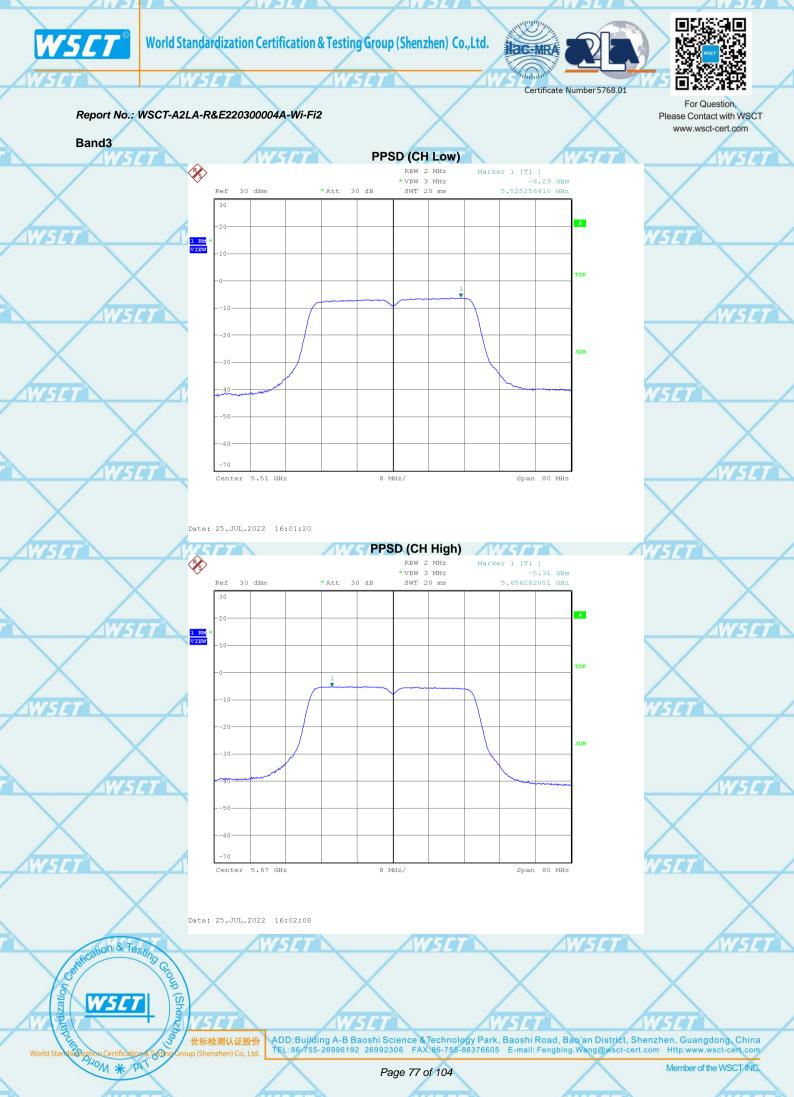


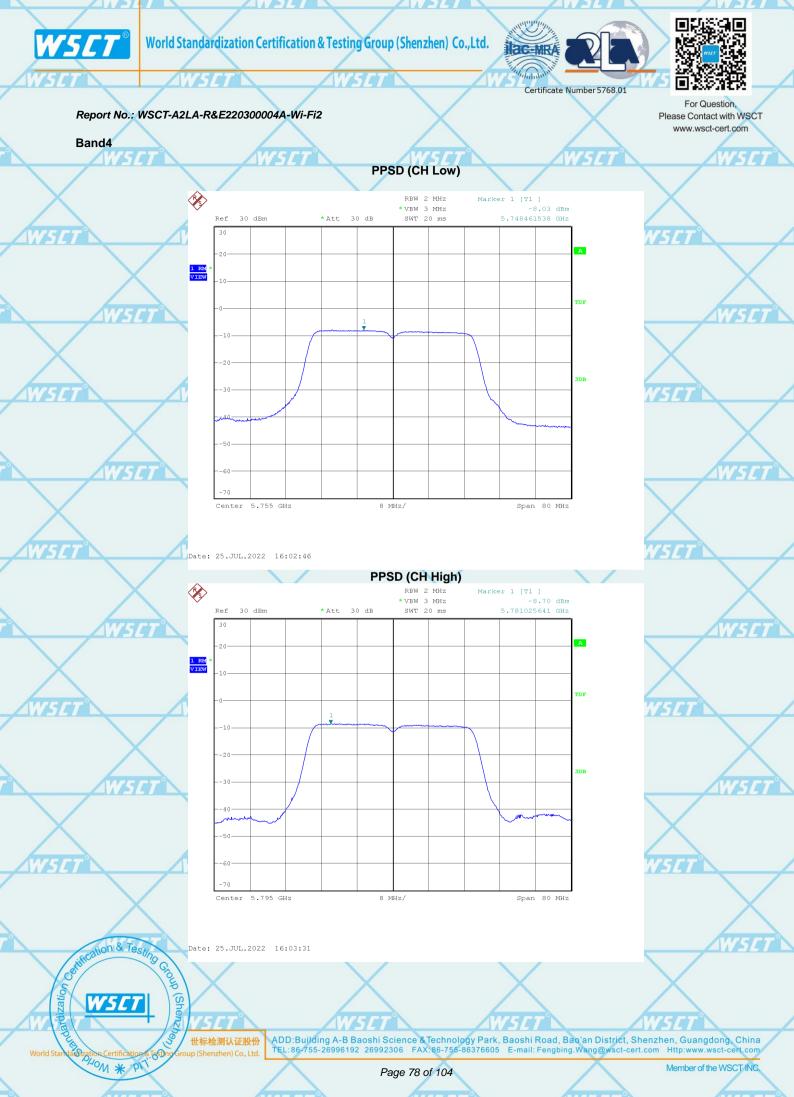


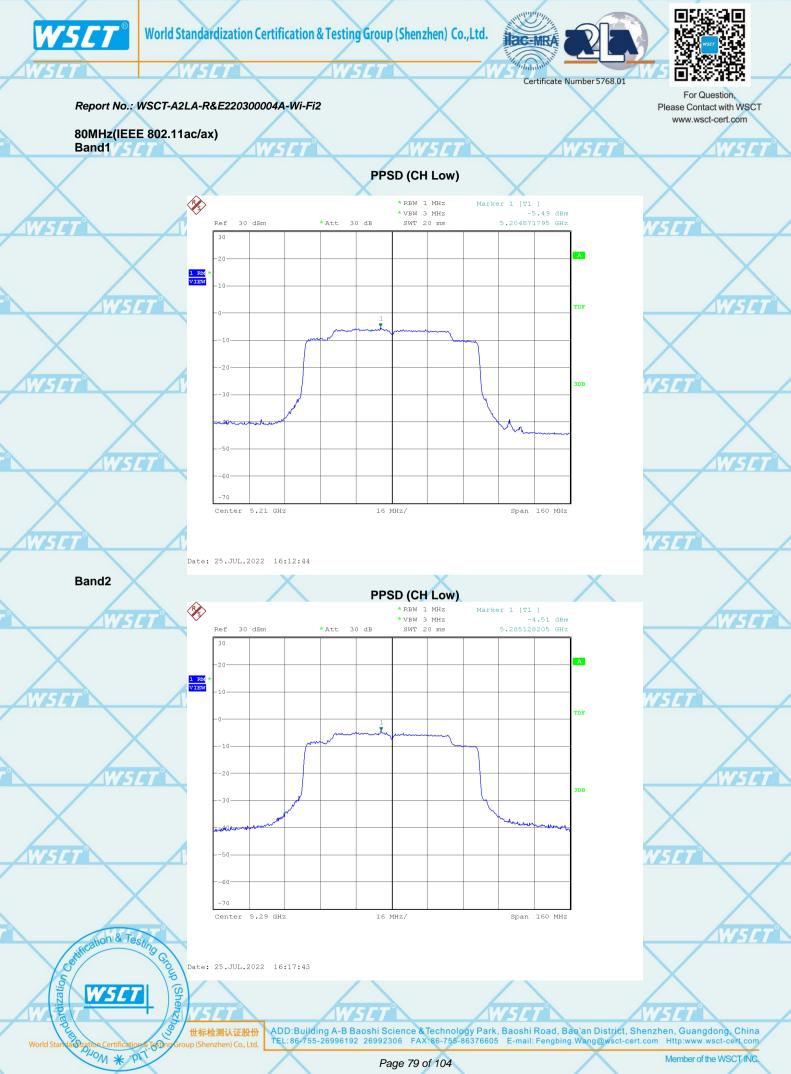


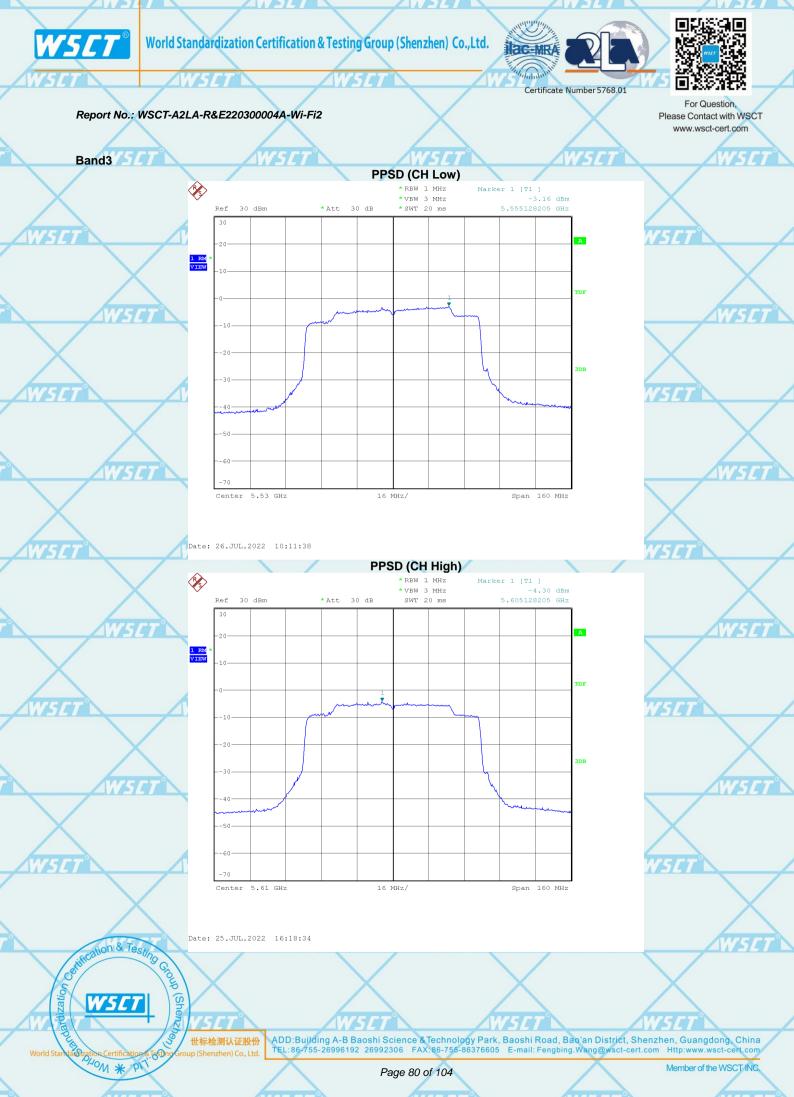


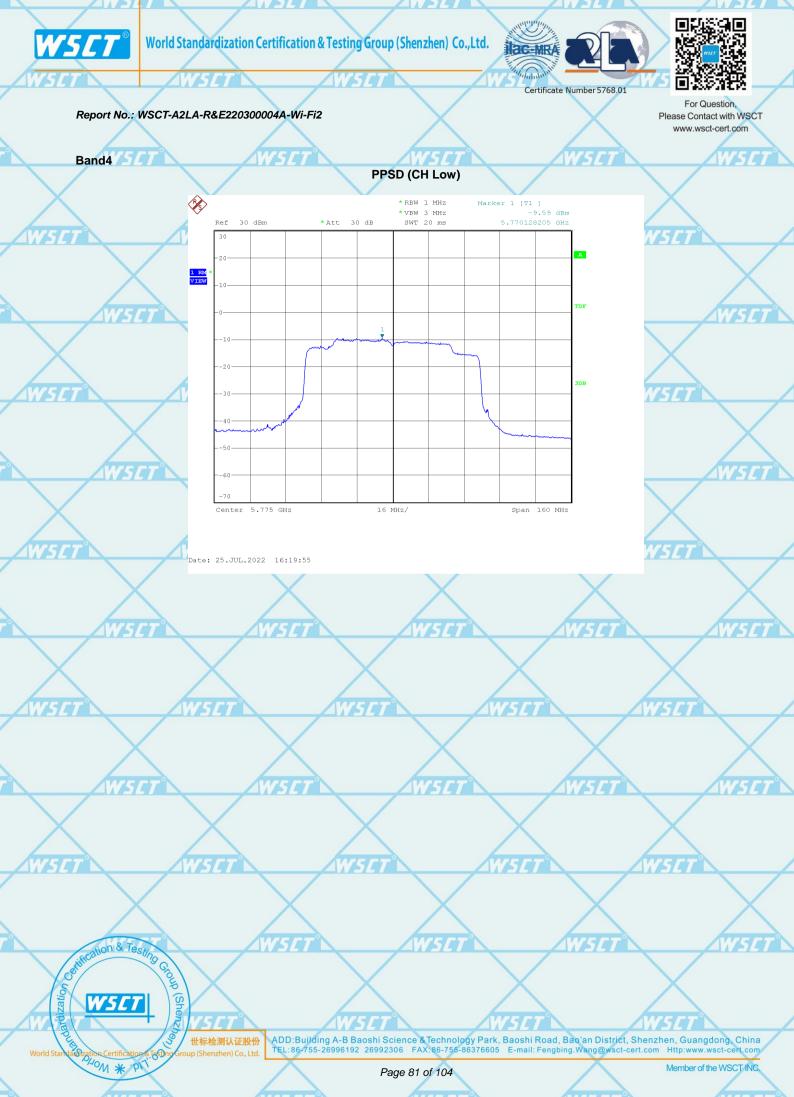














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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2

									t-cert.com
	E. Frequency	v Stability							
	Product:	Megabo	okV SZ 7		Test Mode	Mode: 2	0MHz(IEEE		WSET N
	/				i continoue		/n/ac/ax)		
/				$\sim$			,		
1	Test Item:	Frequer	ncy Stability	$\wedge$	Temperatur	'е: 25 °С			
<b>r</b> 7	Test Voltage:	DC 11.5	55V	WELT	Humidity:	56%RH		WSIT	
	Test Result:	PASS							
	Voltage vs. Frequ	uency Stabilit	y V				$\overline{\mathbf{v}}$		
	Voltage			Me	asurement Fre	equency (MHz)	)		
	(V)	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz
	126.50	5179.9364	5239.9516	5259.9343	5319.9636	5499.9327	5699.933	5744.9102	5824.9614
	/ 110.00	5179.9333	5239.9206	5259.9372	5319.9658	5499.9326	5699.935	5744.9132	5824.9628
/	93.50	5179.9309	5239.9206	5259.9356	5319.9654	5499.9385	5699.9351	5744.9193	5824.9608
	Max. Deviation								
	(MHz)	0.0691	0.0794	0.0657	0.0364	0.0674	0.067	0.0898	0.0392
[7	Max. Deviation	WSCT		W5LT <sup>®</sup>		WSLT <sup>®</sup>		WSCT <sup>®</sup>	
	(ppm)	12.01	13.8	11.42	6.32	11.71	11.64	15.6	6.81
	Temperature vs.	Frequency St	ability	Ma					
	Temperature		5240 MHz		10 No.	equency (MHz)			
	(°C)	5180 MHz		5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz
	0	5179.9333	5239.9598	5259.9345	5319.9681	5499.9371	5699.9398	5744.9125	5824.9649
		5179.9379	5239.9512	5259.9311	5319.9639	5499.9356	5699.9334	5744.9105	5824.9645
/	20	5179.9337	5239.9542	5259.9348	5319.9642	5499.9308	5699.9381	5744.9144	5824.9641
	30	5179.9394	5239.957	5259.938	5319.9669	5499.9307	5699.9309	5744.9179	5824.9700
1	40	5179.9361	5239.9539	5259.9336	5319.9699	5499.9326	5699.9339	5744.9196	5824.9628
<b>C</b> 1	Max. Deviation (MHz)	0.0667	0.0488	0.0689	0.0361	0.0693	0.0691	0.0895	0.0372
	Max. Deviation	11.59	8.48	11.97	6.27	12.04	12.01	15.55	6.46
	(ppm)				$\sim$		$\rightarrow$		$\sim$



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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2

									WWW	wsct-cert.com	
	Product:	Megabo	ook		Test Mo	de:	Mode: 40	MHz(IEEE			
	AWSET		AWSET		AVSET		802.11n/a	ic/ax)		WSET	1
/	Test Item:	Freque	ncy Stability		Tempera	ture:	25 °C		$\mathbf{X}$		
1	Test Voltage:	DC 11.	55V		Humidity	. /	56%RH				
[]	Test Result:	PASS		AWSET		AW:	SCT N		W5L7	<u> </u>	1
	Voltage vs. Frequ	uency Stabilit	у	8	$\langle \rangle$		0				
	Voltage			Me	asurement F	requenc	cy (MHz)				
	(V)	5190 MHz	5230 MHz	5270 MHz	5310 MHz	5510	MHz 56	670 MHz	5755 MHz	5795 MHz	
	126.50	5189.9374	5229.9575	5269.9332	5309.9647	5509.9	9382 56	69.9324	5754.9138	5794.962	

110.00	5189.9325	5229.9587	5269.9318	5309.9651	5509.9332	5669.9347	5754.9174	5794.9603	
93.50	5189.9372	5229.957	5269.9323	5309.9687	5509.9398	5669.9336	5754.9116	5794.9617	
Max. Deviation									
(MHz)	0.0675	0.043	0.0682	0.0353	0.0668	0.0676	0.0884	0.0397	
Max. Deviation									
) (ppm)	13.01	7.47	11.85	6.13	11.61	11.75	15.36	6.9	
Femperature vs. Frequency Stability									
Tomporatura	Tomporature Measurement Frequency (MHz)								

	Temperature			M	easurement F	requency (MH	z)			Measurement Frequency (MHz)						
	(°C)	5190 MHz	5230 MHz	5270 MHz	5310 MHz	5510 MHz	5670 MHz	5755 MHz	5795 MHz							
	0	5189.9354	5229.9526	5269.9373	5309.9617	5509.9332	5669.9359	5754.9184	5794.9684							
	10	5189.9311	5229.9582	5269.9363	5309.9659	5509.9354	5669.9368	5754.9124	5794.961							
	20	5189.9324	5229.9596	5269.9397	5309.9689	5509.9315	5669.9332	5754.9106	5794.968							
	30	5189.9359	5229.9521	5269.9353	5309.9699	5509.9381	5669.9381	5754.9135	5794.9674							
	40	5189.932	5229.9528	5269.9366	5309.9614	5509.9334	5669.9393	5754.9173	5794.9621							
	Max. Deviation	0.0689	0.0479	0.0647	0.0386	0.0685	0.0668	0.0894	0.039							
	(MHz)															
[]	Max. Deviation	11.97	8.32	11.24	6.71	11.9	11.61	15.53	6.78	1						
	(ppm)		/		/											

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#### Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi2

	Product:	Megabook /5/7	Test Mode:	80MHz(IEEE 802.11ac/ax)	WSET		
/	Test Item:	Frequency Stability	Temperature:	25 °C			
	Test Voltage:	DC 11.55V	Humidity:	56%RH			
4	Test Result:	WSET WSET	W	SET WSL	7		
	Voltage vs. Frequen	cy Stability					
	Voltage Measurement Frequency (MHz)						

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(V)	5210 MHz 📝	5290 MHz	5530 MHz	5610 MHz	5775 MHz	
126.50	5209.9306	5289.951	5529.9345	5609.9678	5774.9382	
110.00	5209.9314	5289.9545	5529.9341	5609.9698	5774.9348	7
93.50	5209.9323	5289.9501	5529.9374	5609.969	5774.9376	
Max. Deviation	$\sim$					
(MHz)	0.0694	0.0499 >	0.0659	0.0322 🗡	0.0652	
Max. Deviation						
📄 (ppm) 🚽	13.32	8.67	11.45	5.6	11.33	

Temperature vs. Frequency Stability

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Tempe	erature		Mea	asurement Free	quency (MHz)			
(°(	C)	5210 MHz	5290 MHz	5530 MHz	5610 MHz	5775 MHz		
	Ó	5209.9312	5289.9524	5529.9302	5609.9605	5774.938		
4	0	5209.9304	5289.9554	5529.9394	5609.9664	5774.9378		
2	047 🗅	5209.9362	5289.9563	5529.936	5609.9692	5774.9354		
3	0	5209.9368	5289.9541	5529.9367	5609.969	5774.9383		/
4	0	5209.939	5289.9588	5529.9394	5609.968	5774.9346		
Max. D	eviation	0.0696	0.0476	0.0698	0.0395	0.0654		
(M	Hz)							
6	eviation	12.09	8.27 / 5	7 12.13	6.86	11.36	/W5L	
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# 8. BAND EDGE EMISSIONS

**8. 1 Test Equipment** Please refer to Section 4 this report.

# 8. 2 Test Procedure

		sions Measurement:							
	Test Method:	a.)The EUT was tested according to A		X					
			ne turntable which table size is 1m x 1.5 m, table high						
		<u>1.5</u> m. All set up is according to ANS		August					
_	ZWSLIN		to 40 GHz was investigated. All readings from <u>9</u> kHz	WSLT					
			ith a resolution bandwidth of 200 Hz. All readings from						
			values with a resolution bandwidth of <u>9</u> KHz. All						
			quasi-peak values with a resolution bandwidth of 120						
			, peak values with a resolution bandwidth of <u>1</u> MHz .						
		Measurements were made at <u>3</u> meters		·7					
1.51			easured continuously at every azimuth by rotating the						
		turntable. The Receiving antenna high is varied from $1 \text{ m}$ to $4 \text{ m}$ high to find the maximum							
		emission for each frequency. Emissions below 30MHz were measured with a loop							
	antenna while emission above 30MHz were measured using a broadband E-field								
		antenna.							
	AWSET	e) Maximizing procedure was performe	ed on the six (6) highest emissions to ensure EUT	WSET					
			mbinations. All data was recorded in the peak	/					
1			as was performed only when an emission was found to						
X			ation limit), and are distinguished with a "QP" in the						
		data table.							
			by changing the polarization of receiving antenna						
		both 27 WSLT							
			d out the max. emission, the relative positions of this						
			three orthogonal axes according to the						
		requirements in							
		Section 8 and 13 of ANSI C63.10.							
		sions Measurement:	AVISET AVISET	WSET					
	Test Equipment Set			- /					
1	a)Attenuation: Aut		d)RBW/VBW(Emission in non-restricted band)						
X	b)Span Frequency		1MHz / 3MHz for peak						
		ssion in restricted band):							
	1MHz / 3MHz for I								
76	1MHz / 1/T for Ave	srage	WSI WSI						
	0.0 Tot 0.1.								
	8. 3 Test Setu								
	Same as section 2.	2 of this report		$\wedge$					
		ation of the EUT	WSET WSET	WSET					
	Same as section 2.	2 of this report		/					

# **8. 5 EUT Operating Condition** Same as section 2.2 of this report.

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#### 8.6 Limit

Limit:

Spurious Radiated Emission & Band Edge Emissions Measurement: For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

> In any 100 KHz bandwidth outside the operating frequency band, the radio frequency power that is produced by modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 KHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in section 15.209(a), which lesser attenuation.

All other emissions inside restricted bands specified in section 15.205(a) shall not exceed the general radiated emission limits specified in section 15.209(a)

#### Note:

Applies to harmonics/spurious emissions that fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209. 47 CFR § 15.237(c): The emission limits as specified above are based on measurement instrument employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

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#### 8.7 Test Result

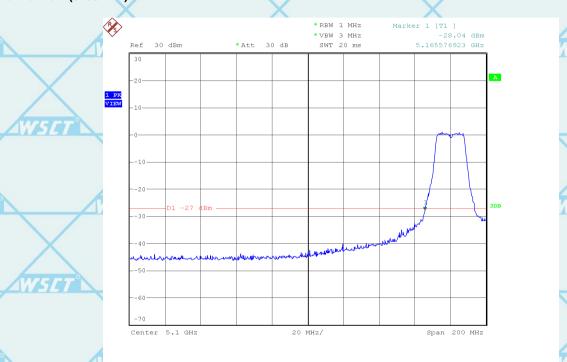
	Band Edge and	I Fundamental Emissions	/		/
$\times$	Product:	Megabook	Test Mode:	20MHzIEEE 802.11a/n/ac/ax	
	Test Item:	Band Edge and Fundamental Emissions	Temperature:	25 °C	
5 <i>L</i>	Test	DC 11.55V	Humidity:	56%RH2//	
	Voltage:				
	Test Result:	PASS		X	X

20MHz(IEEE 802.11a/n/ac/ax) Channel Low (5180MHz)

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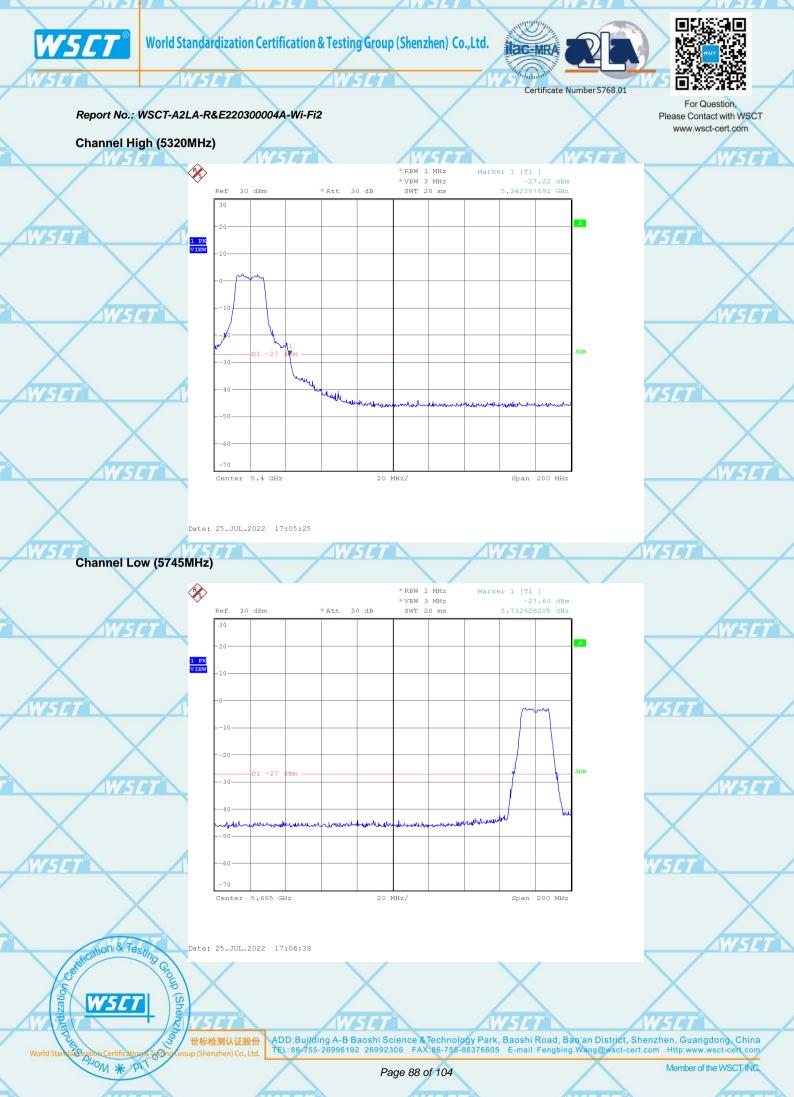
Date: 25.JUL.2022 17:04:04

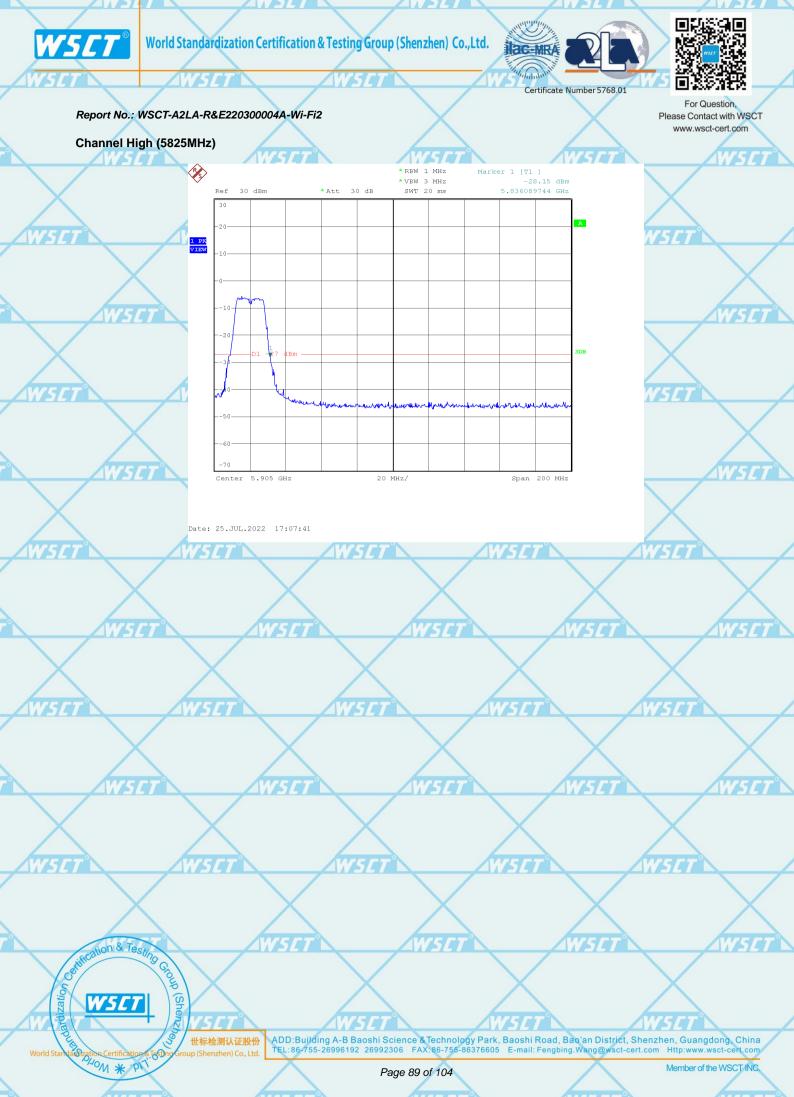
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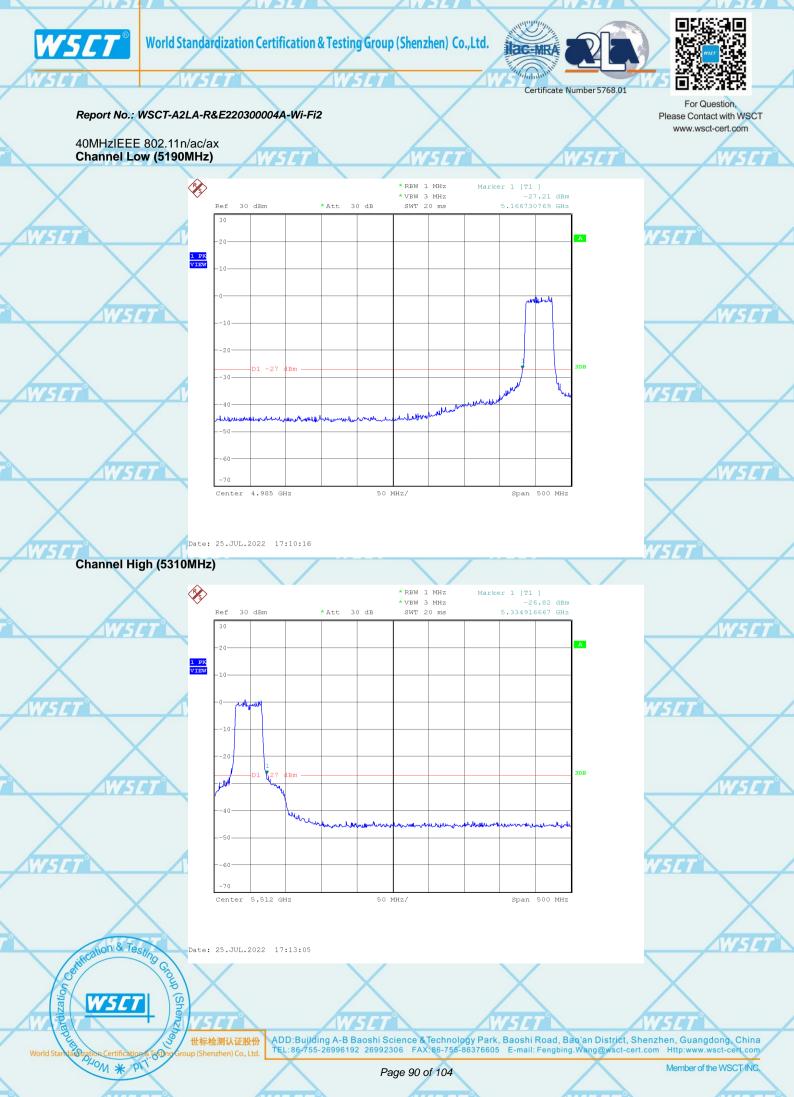
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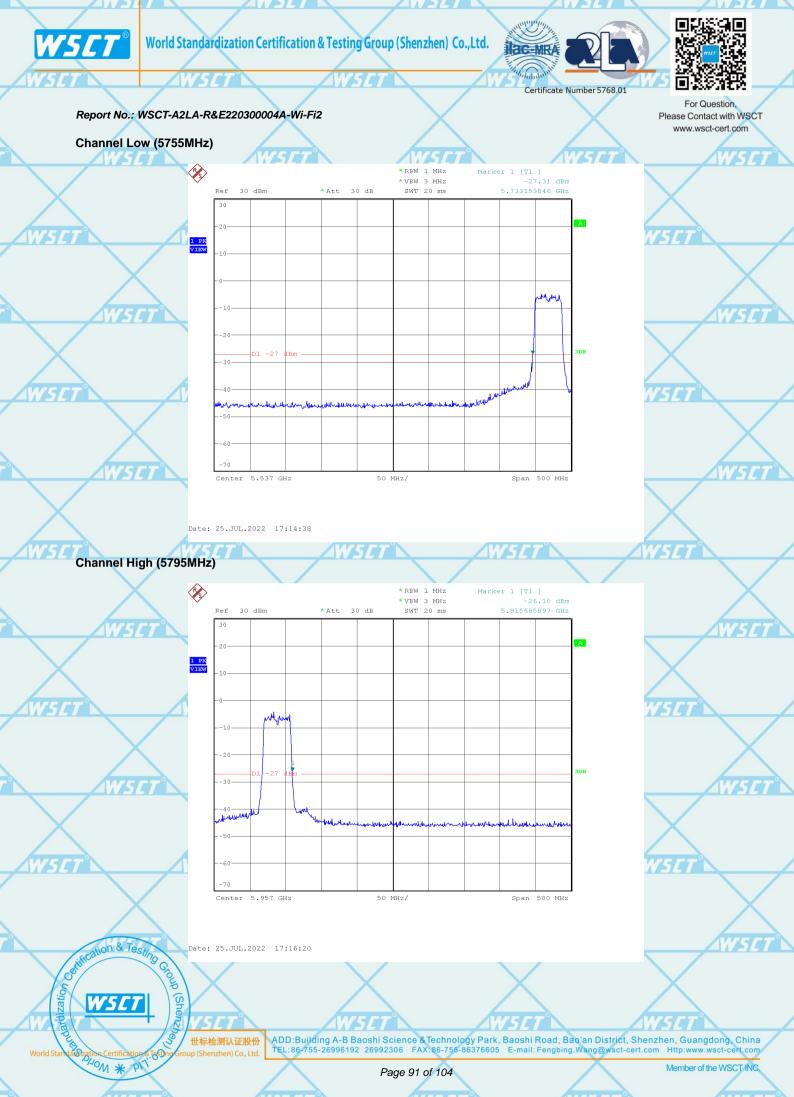
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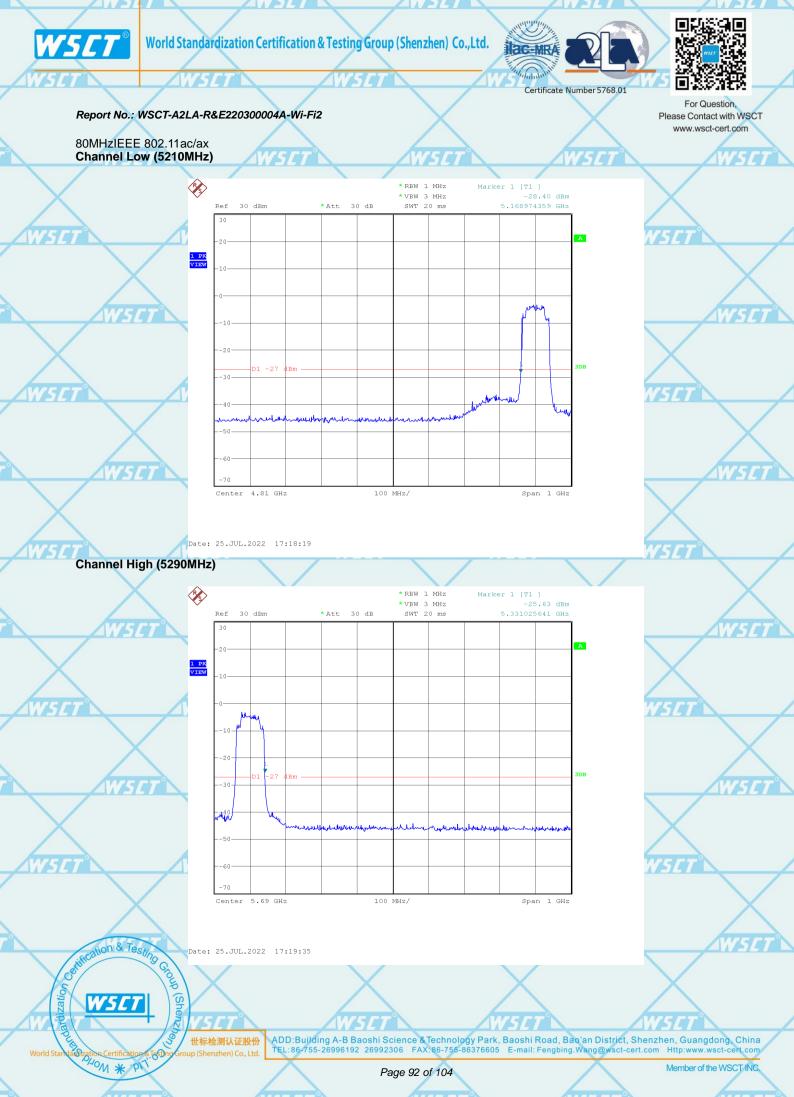
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#### 9. DYNAMIC FREQUENCY SELECTION (DFS) **DFS OVERVIEW**

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands. Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

Tables 1 and 2 shown below summarize the information contained in sections 5.1.1 and 5.1.2

Requirement	Operational Mode				
	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

#### Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Table 2: Applicability of DFS requirements during normal operation

	Requirement	Operational	Mode
		Master Device or Client with Radar Detection	Client Without Radar Detection
	DFS Detection Threshold	Yes	Not required
	Channel Closing Transmission Time	Yes	Yes
	Channel Move Time	Yes	Yes
<	U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with	Master Device or Client with	Client Without Radar					
multiple bandwidth modes	Radar Detection	Detection					
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required					
Performance Check							
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest					
Transmission Time	available	BW mode available for					
		the link					
All other tests	Any single BW mode	Not required					
Note: Frequencies selected for statistical perfo							
	frequencies within the radar detection bandwidth and frequencies near the edge of the radar						
detection bandwidth. For 802.11 device	ces it is suggested to select freque	ncies in each of the					
bonded 20 MHz channels and the chan	nel center frequency.						

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The operational behavior and individual DFS requirements that are associated with these modes are as

follows:

#### DFS DETECTION THRESHOLDS

**Table 3** below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

#### Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value				
	(See Notes 1, 2, and 3)				
$EIRP \ge 200 \text{ milliwatt}$	-64 dBm				
EIRP < 200 milliwatt and	-62 dBm				
power spectral density < 10 dBm/MHz					
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm				
requirement					
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.					
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the					
test transmission waveforms to account for variations in measurement equipment. This will ensure that					
the test signal is at or above the detection threshold level to trigger a DFS response.					
Note3: EIRP is based on the highest antenna gain. For MIMO dev	ices refer to KDB Publication				
662911 D01.					

# **RESPONSE REQUIREMENTS**

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Table 4 provides the response requirements for Master and Client Devices incorporating DFS.

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over remaining
	10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See Note
	3.

#### Table 4: DFS Response Requirement Values

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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## RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

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## Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
Туре	(µsec)	(µsec)		Percentage of	Number of
				Successful	Trials
				Detection	
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique	$\left( \begin{array}{c} 1 \end{array} \right)$	60%	30
		PRI values	$\left(\frac{1}{360}\right)$ .		
		randomly selected	Roundup { Sou }		
		from the list of 23	(19.10 <sup>6</sup> )		
		PRI values in Table			
		5a	$\left( \left( \operatorname{PRI}_{\mu \operatorname{sec}} \right) \right)$		
		Test B: 15 unique			
		PRI values			
		randomly selected			
		within the range of			
		518-3066 µsec,			
		with a minimum			
		increment of 1			
		µsec, excluding			
		PRI values selected			
		in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
	Radar Types 1-		used for the detection ba	80%	120

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses would be

Roundup  $\left\{ \left(\frac{1}{360}\right) \cdot \left(\frac{19 \cdot 10^{\circ}}{3066}\right) \right\} = \text{Round up } \{17.2\} = 18.$ 

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W	Table 5a -	Pulse R
	Pulse Repetition	Pulse I
	Frequency	(Pulses
$\sim$	Number	
AWSET .		
	1	
	2	
	3	
	4	
	5	
$\sim$	6	
	7	
WSET	8	
	9	
	10	
1	11	
	12	
	13	
$\mathbf{X}$	14	
	15	
AWSET .	16	
	17	
	18	1
/	19	
		-

Table 5a - Pulse Repetition Intervals Values for Test A						
Pulse Repetition	Pulse Repetition Frequency	Pulse Repetition				
Frequency	(Pulses Per Second)	Interval				
Number		(Microseconds)				
1	1930.5	518				
2	1858.7	538				
3	1792.1	558				
4	1730.1	578				
5	1672.2	598				
6	1618.1	618				
7	1567.4	638				
8	1519.8	658				
9	1474.9	678				
10	1432.7	698				
11	1392.8	718				
12	1355	738				
13	1319.3	758				
14	1285.3	778				
15	1253.1	798				
16	1222.5	818				
17	1193.3	838				
18	1165.6	858				
19	1139	878				
20	1113.6	898				
21	1089.3	918				
22	1066.1	938				
23	326.2	3066				





The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

	Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
	1	35	29	82.9%
17	2	30	18	60%
8	3	30	27	90%
	4	50	44	88%

Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%

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#### Long Pulse Radar Test Waveform

Table 6 – Long Pulse Radar Test Waveform							
Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of
	(µsec)	(MHz)		per Burst		Successful	Trials
				-		Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

1) The transmission period for the Long Pulse Radar test signal is 12 seconds.

2) There are a total of 8 to 20 *Bursts* in the 12 second period, with the number of *Bursts* being randomly chosen. This number is *Burst Count*.

3) Each *Burst* consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each *Burst* within the 12 second sequence may have a different number of pulses.

4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a *Burst* will have the same pulse width. Pulses in different *Bursts* may have different pulse widths.

5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a *transmission period* will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.

6) If more than one pulse is present in a *Burst*, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a *Burst*, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.

7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to *Burst Count*. Each interval is of length (12,000,000 / *Burst Count*) microseconds. Each interval contains one *Burst*. The start time for the *Burst*, relative to the beginning of the interval, is between 1 and [(12,000,000 / *Burst Count*) – (Total *Burst* Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each *Burst* is chosen randomly.

## A representative example of a Long Pulse Radar Type waveform:

1) The total test waveform length is 12 seconds.

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- 2) Eight (8) Bursts are randomly generated for the Burst Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 5.
- 7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is

randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random

PRI interval) at the 325,001 microsecond step. *Bursts* 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. *Burst* 2 falls in the 1,500,001 – 3,000,000 microsecond range). **Figure 1** provides a graphical representation of the Long Pulse Radar Test Waveform.

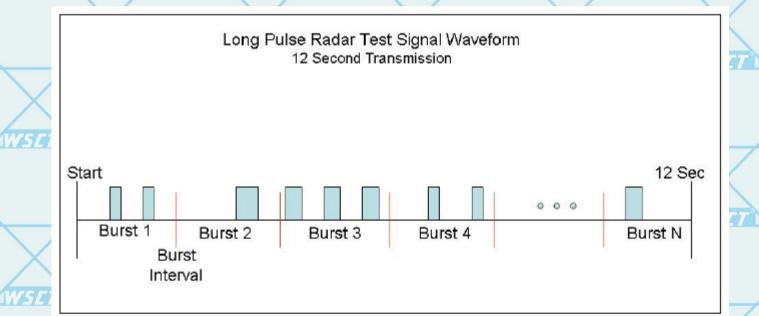
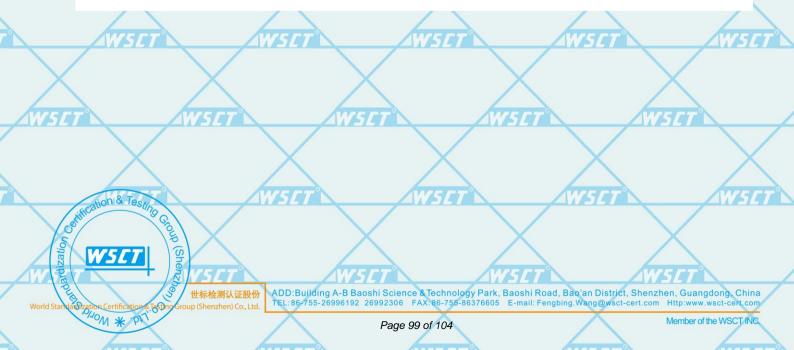


Figure 1: Graphical Representation of a Long Pulse Radar Type Waveform





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## Frequency Hopping Radar Test Waveform

Table 7 – Frequency Hopping Radar Test Waveform							
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
	(µsec)		Hop	(kHz)	Length	Successful	Trials
	-				(msec)	Detection	
6	1	333	9	0.333	300	70%	30

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For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: <sup>4</sup>

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.



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# TEST PROCEDURE

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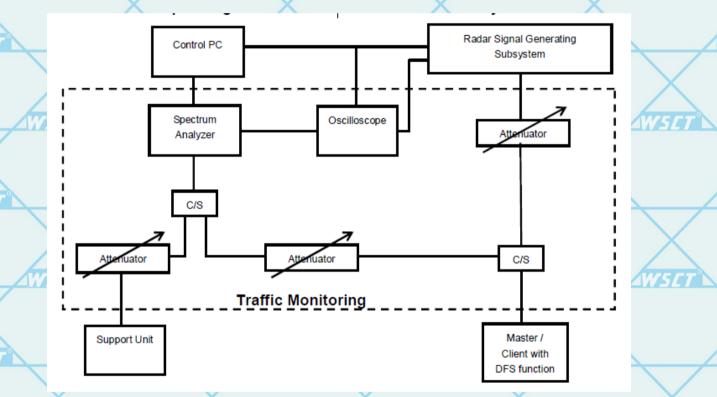
# DFS MEASUREMENT SYSTEM

A complete DFS Measurement System consists of two subsystems: /

(1) The Radar Signal Generating Subsystem and

(2) The Traffic Monitoring Subsystem.

The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).



The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 y Magic Hours) from Master device, the designated MPEG test file and instructions are located at: http://ntiacsd.ntia.doc.gov/dfs/.

世标检测认证股份 ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China n (Shenzhen) Co. Ltd. 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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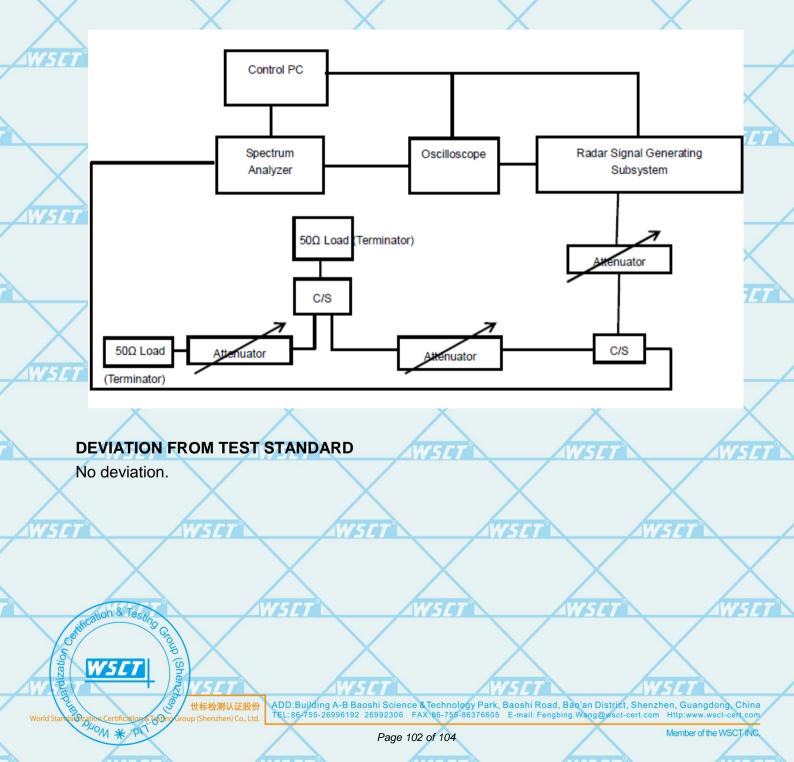
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# CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

The measured channel is 5260MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

## SLAVE WITHOUT RADAR DETECTION MODE

The antenna gain is -4dBi and required detection threshold is -65dBm (= -62 +1 - 4)dBm. The calibrated conducted detection threshold level is set to -65dBm.







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#### RESULT: PASS

Test Items	Remark	Result
Channel Closing Transmission Time	Applicable	PASS
Channel Move Time	Applicable	PASS
Internet This advantage and the second as a set	a second the second s	the Contraction

Note: This phone can only be used as a slave without radar detection function.

## MEASUREMENT RECORD (THE WOST CASE)

#### Measurement data below:







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## Measurement data below:

	5500MHz 5		
Test Items	Value (ms)	Limit (s)	Test Result
Channel Closing Transmission Time	30.8	X	Pass
Channel Move Time	800.4	10	Pass

