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# TEST REPORT

FCC ID: 2ADYY-T16RAPRO

**Product: Laptop Computer** 

Model No.: T16RA Pro

Trade Mark: TECNO

Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi1

Issued Date: 07 April 2024

Issued for:

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

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Certificate #5768.01

## **TABLE OF CONTENTS**

.01	For Question,
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	Tool Contification		F748	14-7
1.	Test Certification			3
2.	Test Result Summary			4
7.743.	EUT Description			5
4.	Genera Information			7
	4.1. TEST ENVIRONMENT AND MODE	X	<u> </u>	7×
	4.2. DESCRIPTION OF SUPPORT UNITS		4	. 8
5.	Facilities and Accreditations			9
X	5.1. FACILITIES	X	X	9
2700	5.2. ACCREDITATIONS			9
	5.3. MEASUREMENT UNCERTAINTY			10
	5.4. MEASUREMENT INSTRUMENTS	X	X	11 X
6.	Test Results and Measurement Da	ta	1	2
1	6.1. ANTENNA REQUIREMENT	1.6 2.8	All the state of the second se	12
X	6.2. CONDUCTED EMISSION	X		13
	6.3. EMISSION BANDWIDTH			19
ATH AL	6.4. Power Spectral Density	AINTA	16794	22
	6.5. CONDUCTED BAND EDGE AND SPURIOUS EMISSION	ON MEASUREMENT		53
	6.6. RADIATED SPURIOUS EMISSION MEASUREMENT			84
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## 1. Test Certification

Product: Laptop Computer

Model No.: T16RA Pro

Trade Mark; TECNO

Applicant: TECNO MOBILE LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer: TECNO MOBILE LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 04 March 2024 to 06 April 2024

Applicable
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

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:

(Mo Peiyun)

Approved By:

(Liu Fuxin)

Date.

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## 2. Test Result Summary

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	Requirement	CFR 47 Section	Result
2	Antenna requirement	§15.203/§15.247 (c)	PASS
	AC Power Line Conducted Emission	§15.207	PASS
	Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
	Power Spectral Density	§15.247 (e)	PASS
7	Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
-	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

### Note:

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- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

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#### **EUT Description** 3.

1	Product:	Laptop Computer
	Model No.:	T16RA Pro
9	Trade Mark:	TECNO
	Operation Frequency:	2412MHz~2462MHz (802.11b/g/n/ax(HT20)) 2422MHz~2452MHz (802.11n/ax(HT40))
	Channel Separation:	5MHz
/	Modulation type:	DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b OFDM/OFDMA(BPSK,QPSK,16QAM,64QAM,1024QAM) for IEEE 802.11g/n/ax
ý	Antenna Type:	Integral Antenna
	Antenna Gain	MAIN ANT: 2.40dBi AUX ANT: 2.70 dBi
//	Rechargeable Li-Polymer Battery:	Model: N160 Nominal Voltage: 11.61V Rated Capacity: 8612mAh Rated Energy: 99.99Wh Limited Charge Voltage: 13.35V
	Adapter:	Adapter: A879-200500C-US1 Input: 100-240V~50/60Hz 2.5A Output:PD:5V==3A/9V==3A/12V==3A/15V==3A/20V==5A PPS 3.3-11V==5A 55W Max 3.3-21V==5A 100W Max
/	Remark:	N/A.



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## Operation Frequency each of channel For 802.11b/g/n/ax(HT20)

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	CIAPINE	2412MHz	4	2427MHz	77	2442MHz	10	2457MHz
	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n/ax (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
ATE IN		44	2427MHz	175/4	2442MHz	17474	- /
	\_/	5	2432MHz	8	2447MHz		\_/
3	2422MHz	6	2437MHz	9	2452MHz		X

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/g/n/ax (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n/ax (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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## 4. Genera Information

### 4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
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%)
Appropriate Approp	Appropriate Appropriate (

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.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.					
VVSIAT	Mode	WSIGT WSIGT			
	802.11b				
	802.11g				
ATEI 9 ATEI 9	802.11n/ax(H20)	THE STATE OF THE S			
X	802.11n/ax(H40)	XX			
Final Test Mode:					
Operation mode:	Keep the with mod	EUT in continuous transmitting ulation			

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.2. According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

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## 4.2. Description of Support Units

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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	Adapter1	1 ×	1	ADAPTER
Router	Archer AX6000	I NYSL	TE7AX6000	941

#### Note:

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- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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Warld Standard Organic Communication	世际投資认证股份 AC TE	VA10.0	V619 8	72700	,
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Page 8 of 92









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## 5. Facilities and Accreditations

#### 5.1. 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

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.2. ACCREDITATIONS

**CNAS - Registration Number: L3732** 

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

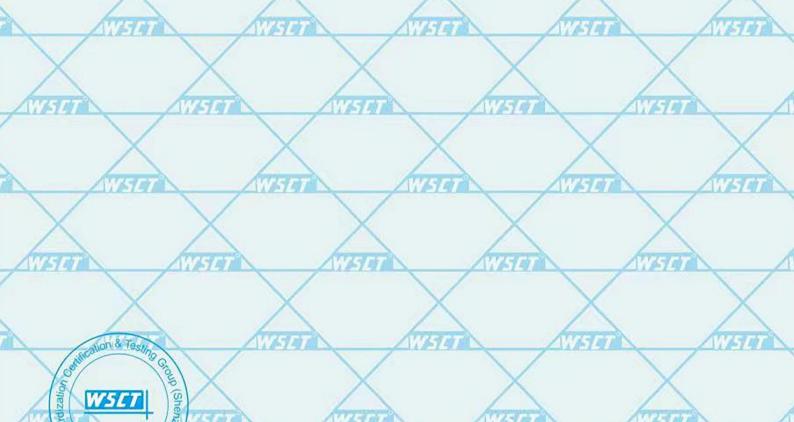
FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

A2LA - Certificate Number: 5768.01

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The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number: 5768.01









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## **5.3. Measurement Uncertainty**

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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 %.

	00111100		
1	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	31/5/	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
/	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature	±0.5°C
	7 X	Humidity	±2.0%

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Page 10 of 92



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## **5.4.MEASUREMENT INSTRUMENTS**

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×	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
7/	Test software		EZ-EMC	CON-03A	- 4	234	
	Test software		MTS8310				
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	2
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	5
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
X	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	?
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	5
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
X	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
7	Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2023	11/04/2024	
	9*6*6 Anechoic		\	/	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	<del></del>	11/05/2023	11/04/2024	/
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	2
×	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
7	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	
	RF cable	Murata	MXHQ87WA300 0		11/05/2023	11/04/2024	5
	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	
X	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
7	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
	Power sensor	Anritsu	MX248XD	/	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	1
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## 6. Test Results and Measurement Data

## 6.1. Antenna requirement

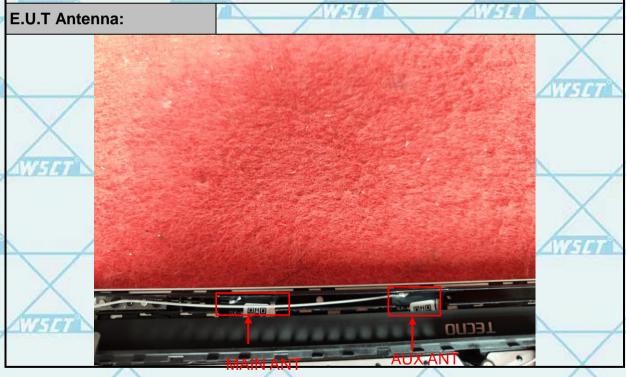
Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.













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## 6.2. Conducted Emission

## 6.2.1. Test Specification

.2.1. Test Specification	
Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2014
Frequency Range:	150 kHz to 30 MHz
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto
Limits:	Frequency range (MHz)         Limit (dBuV)           0.15-0.5         66 to 56*         56 to 46*           0.5-5         56         46           5-30         60         50
	Reference Plane
Test Setup:	E.U.T AC power    EMI   Receiver   Receiver
Test Mode:	Remark E.U.T: Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m  Charging + transmitting with modulation
W5III	The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
Test Procedure:	<ol> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum</li> </ol>
alion & Testino	emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2014 on conducted measurement.
Test Result:	PASS
Michi & Testino	refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2014 on conducted measurement.

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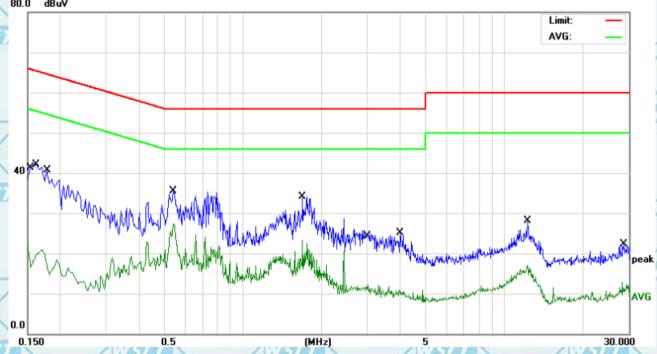
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#### 6.2.2. Test data

Please refer to following diagram for individual

The worst mode is MIMO802.11n20

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



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
44	1		0.1500	11.70	10.45	22.15	55.99	-33.84	AVG
	2		0.1620	31.71	10.45	42.16	65.36	-23.20	QP
	3		0.1780	30.21	10.45	40.66	64.57	-23.91	QP
	4		0.5420	25.07	10.52	35.59	56.00	-20.41	QP
/	5	*	0.5420	16.79	10.52	27.31	46.00	-18.69	AVG
1	6		1.6940	23.54	10.66	34.20	56.00	-21.80	QP
91	7		1.6940	12.65	10.66	23.31	46.00	-22.69	AVG
	8		3.0100	1.31	10.72	12.03	46.00	-33.97	AVG
	9		3.9940	14.32	10.73	25.05	56.00	-30.95	QP
	10		12.2780	17.07	11.00	28.07	60.00	-31.93	QP
7	11		12.2780	6.02	11.00	17.02	50.00	-32.98	AVG
	12		28.3300	1.71	11.18	12.89	50.00	-37.11	AVG

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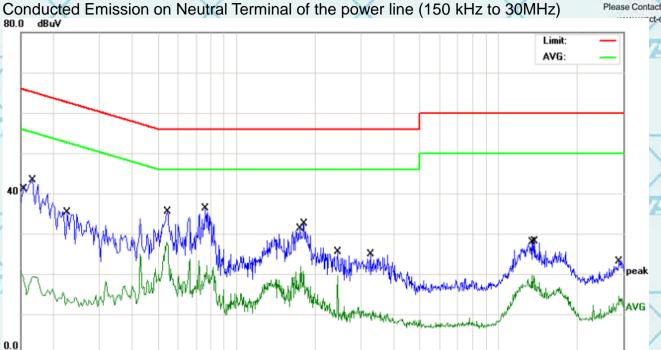


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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	1		0.1500	10.33	10.45	20.78	55.99	-35.21	AVG
	2		0.1660	32.87	10.45	43.32	65.15	-21.83	QP
3	3		0.2260	24.77	10.46	35.23	62.59	-27.36	QP
	4	*	0.5420	17.36	10.52	27.88	46.00	-18.12	AVG
	5		0.7620	25.78	10.54	36.32	56.00	-19.68	QP
	6		1.7700	11.25	10.67	21.92	46.00	-24.08	AVG
7	7		1.8100	21.75	10.68	32.43	56.00	-23.57	QP
	8		2.4380	8.69	10.71	19.40	46.00	-26.60	AVG
1	9		3.2460	14.16	10.72	24.88	56.00	-31.12	QP
Z	10		13.4140	8.69	11.08	19.77	50.00	-30.23	AVG
	11		13.7740	16.98	11.11	28.09	60.00	-31.91	QP
	12		28.9380	3.28	11.19	14.47	50.00	-35.53	AVG

(MHz)

5

#### Note1:

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Freq. = Emission frequency in MHz

Reading level  $(dB\mu V)$  = Receiver reading

0.5

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$ 

Q.P. =Quasi-Peak AVG =average

If the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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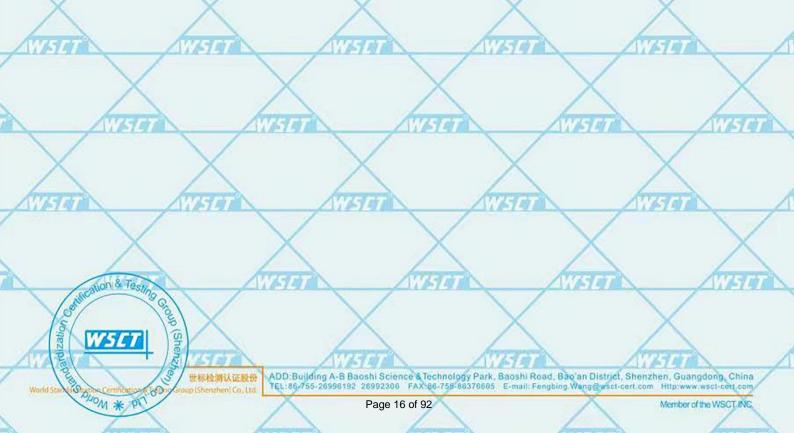
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### 6.2.3. peak power

## 6.2.4. Test Specification

All the state of t
FCC Part15 C Section 15.247 (b)(3)
KDB 558074
30dBm
Spectrum Analyzer EUT
Transmitting mode with modulation
<ol> <li>The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04.</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Measure the conducted output power and record the results in the test report.</li> </ol>
PASS





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If all antennas have the same gain,  $G_{ANT}$ :

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(ii) If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following two formulas.

antennas have different gains if the highest antenna gain is substituted for  $G_{ANT}$ .)

 Directional gain = G<sub>ANT MAX</sub> + 10 log(N<sub>ANT</sub>/N<sub>SS</sub>) dBi, where N<sub>SS</sub> = the number of independent spatial streams of data and  $G_{ANTMAX}$  is the gain of the antenna having the highest gain (in

Directional gain =  $G_{ANT} + 10 \log(N_{ANT}/N_{SS}) dBi$ , where  $N_{SS}$  = the number of independent spatial streams of data and  $G_{ANT}$  is the antenna gain in dBi. (This formula can also be applied when

Or,

 $Directional Gain = 10 \cdot \log \left| \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right|$ 

where

Each antenna is driven by no more than one spatial stream;

 $N_{SS}$  = the number of independent spatial streams of data;

 $N_{ANT}$  = the total number of antennas

 $g_{j,k} = 10^{G_k/20}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;  $G_k$  is the gain in dBi of the kth antenna.

For power measurements on IEEE 802.11 devices, 1,2

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less, for 20-MHz channel widths with NANT  $\geq 5$ .

Note: Nant=2, satisfy the condition Nant≤4, so Array gain=0dB, Directional gain=Gant+Array gain=2.70dBi+0dB=2.70dBi, not more than 6, so the power limit is unchanged.

(She)



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#### 6.2.5. Test Data

#### **MAIN Ant1**

	Mode	Frequency	Total Power	Limit	Verdict	l
		(MHz)	(dBm)	(dBm)		
1	b	2412	20.16	30	Pass	
	b	2437	20.07	30	Pass	ĺ
4	b	2462	20.13	30	Pass	
	g	2412	23.37	30	Pass	
	g	2437	23.44	30	Pass	1
	g	2462	23.45	30	Pass	١
	n20	2412	23.18	30	Pass	
	n20	2437	23.28	30	Pass	ı
	n20	2462	23.16	30	Pass	
/	n40	2422	20.67	30	Pass	ĺ
1	n40	2437	23.98	30	Pass	ĺ
	n40	2452	22.49	30	Pass	ĺ
Š	ax20	2412	23.68	30	Pass	L
	ax20	2437	23.74	30	Pass	
	ax20	2462	20	30	Pass	1
	ax40	2422	20.89	30	Pass	١
	ax40	2437	24.16	30	Pass	
	ax40	2452	22.82	30	Pass	
			The second secon			

#### **AUX Ant2**

1	Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict	
Z	b	2412	17.7	30	Pass	
#	b	2437	17.71	30	Pass	
	b	2462	17.62	30	Pass	
	g	2412	19.97	30	Pass	
	g	2437	20.76	30	Pass	
	g	2462	20.58	30	Pass	
	n20	2412	19.94	30	Pass	
	n20	2437	20.67	30	Pass	
1	n20	2462	20.55	30	Pass	
	n40	2422	18.89	30	Pass	
1/2	n40	2437	21.23	30	Pass	
	n40	2452	21.18	30	Pass	
	ax20	2412	20.39	30	Pass	
	ax20	2437	21.14	30	Pass	
	ax20	2462	20.9	30	Pass	
	ax40	2422	19.35	30	Pass	
	ax40	2437	21.45	30	Pass	
1	ax40	2452	21.51	30	Pass	

#### **MiMO Mode**

Spilication & Test,

Supplied & Wall

					1
Z	Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
	n20	2412	24.87	30	Pass
	n20	2437	25.18	30	Pass
	n20	2462	25.06	30	Pass
	n40	2422	22.88	30	Pass
	n40	2437	25.83	30	Pass
	n40	2452	24.89	30	Pass
	ax20	2412	25.35	30	Pass
	ax20	2437	25.64	30	Pass

n40 n40 ax20 ax20 ax20



Supplied Company

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ax20	2462	23.48	30	Pass
ax40	2422	23.20	30	Pass
ax40	2437	26.02	30	Pass
ax40	2452	25.22	30	Pass

Spilication & Test, Group (Shenz) W5ET









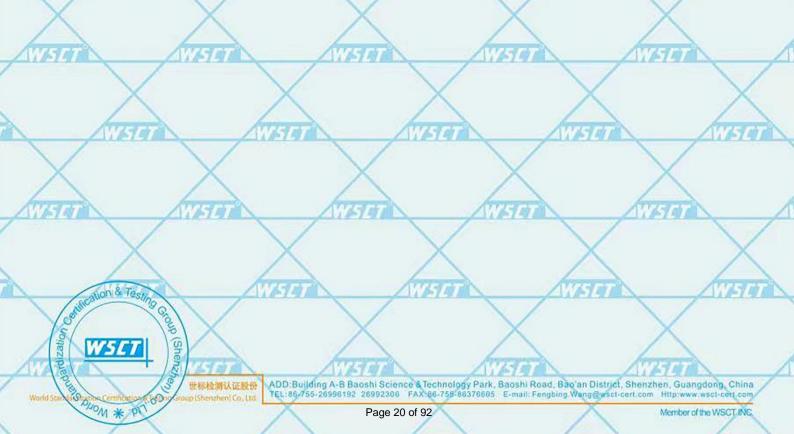
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## 6.3. Emission Bandwidth

## 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section	n 15.247 (a)(2)	$\wedge$
Test Method:	KDB 558074	SVF19	AVA TO A
Limit:	>500kHz	X	
Test Setup:			
	Spectrum Analyzer	EUT	
Test Mode:	Transmitting mode wi	th modulation	WSET
Test Procedure:	DTS D01 Meas. G 2. Set to the maximur EUT transmit cont 3. Make the measurer resolution bandwid Video bandwidth ( an accurate meas be greater than 50	n power setting and elinuously. ment with the spectruidth (RBW) = 100 kHz. VBW) = 300 kHz. In ourement. The 6dB bar	nable the m analyzer's Set the rder to make ndwidth must
	4. Measure and recor	d the results in the tes	t report.
Test Result:	PASS		1











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## 6.3.2. Test data(worst)

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Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	10.082	0.5	Pass
b	2437	10.065	0.5	Pass
Q	2462	10.072	0.5	Pass
g	2412	15.111	0.5	Pass
9	2437	15.078	0.5	Pass
g	2462	15.106	0.5	Pass
n20	2412	15.08	0.5	Pass
n20	2437	15.104	0.5	Pass
n20	2462	15.089	0.5	Pass
n40	2422	35.088	0.5	Pass
n40	2437	35.083	0.5	Pass
n40	2452	35.02	0.5	Pass
ax20	2412	15.044	0.5	Pass
ax20	2437	16.472	0.5	Pass
ax20	2462	10.081	0.5 W5CT	Pass
ax40	2422	35.069	0.5	Pass
ax40	2437	35.085	0.5	Pass
ax40	2452	35.063	0.5	Pass
	ATTTE	ATTICATION AND ADDRESS OF THE PARTY OF THE P	ATTITUTE	ATTITUTE

WESTER WE

Graup (Shenzhen) Co. Ltd.

Monday & Monday & Market Marke



1 Graph

1 Graph

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Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi1

Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com Test Graphs -6dB Bandwidth NVNT b 2412MHz Ant1 Spectrum Analyzer 1 Occupied BW Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.412000000 GHz Avg|Hold: 100/100 Radio Std: None Trig: Free Run Gate: Off KEYSIGHT Input: RF Atten: 30 dB #IF Gain: Low Mkr3 2.417048000 GHz Ref LvI Offset 4.20 dB Ref Value 24.20 dBm -0.13 dBm Scale/Div 10.0 dB Center 2.41200 GHz #Res BW 100.00 kHz Span 30 MHz Sweep 3.33 ms (10001 pts) #Video BW 300.00 kHz Occupied Bandwidth 23.7 dBm 13.370 MHz Total Power Transmit Freq Error 7.436 kHz % of OBW Power 99.00 % x dB Bandwidth 10.08 MHz -6.00 dB Mar 06, 2024 10:52:44 PM -6dB Bandwidth NVNT b 2437MHz Ant1 Spectrum Analyzer 1
Occupied BW Input Z: 50 Ω KEYSIGHT Input: RF Atten: 30 dB Trig: Free Run Center Freq: 2.437000000 GHz Avg|Hold: 100/100 Radio Std: None Gate: Off #IF Gain: Low Corr CCorr Freq Ref: Int (S) Mkr3 2.442011000 GHz Ref Lvi Offset 4.22 dB Ref Value 24.22 dBm 2.68 dBm Scale/Div 10.0 dB Center 2.43700 GHz #Video BW 300.00 kHz Sweep 3.33 ms (10001 pts) #Res BW 100.00 kHz Occupied Bandwidth 13.366 MHz Total Power 23.6 dBm Transmit Freq Error -21.928 kHz % of OBW Power 99.00 %



x dB Bandwidth

Mar 06, 2024 10:54:45 PM

10.07 MHz

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-6.00 dB









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1 Graph

2 Metrics

1 Graph

2 Metrics

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Spectrum Analyzer 1
Occupied BW

Scale/Div 10.0 dB

1 Graph

2 Metrics

Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com -6dB Bandwidth NVNT n40 2437MHz Ant1 + Input Z: 50 Ω Trig: Free Run Center Freq: 2.437000000 GHz KEYSIGHT Input: RF Atten: 30 dB Corr CCorr Freq Ref: Int (S) Gate: Off #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Align: Auto Mkr3 2.454534000 GHz Ref Lvi Offset 4.22 dB Ref Value 24.22 dBm -1.77 dBm material marchine property of trade May feller sent grant on Center 2.43700 GHz #Video BW 300.00 kHz Span 60 MHz #Res BW 100.00 kHz Sweep 6.00 ms (10001 pts) Occupied Bandwidth 35.829 MHz Total Power 23.3 dBm Transmit Freq Error x dB Bandwidth -7.734 kHz 99.00 % % of OBW Power 35.08 MHz -6.00 dB x dB







1 Graph

2 Metrics

1 Graph

2 Metrics

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Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi1

Certificate #5768.01 For Question. Please Contact with WSCT www.wsct-cert.com -6dB Bandwidth NVNT ax20 2412MHz Ant1 Spectrum Analyzer 1
Occupied BW + Input Z: 50 Ω Trig: Free Run Center Freq: 2.412000000 GHz KEYSIGHT Input: RF Atten: 30 dB Corr CCorr Freq Ref: Int (S) Gate: Off #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Align: Auto Mkr3 2.419511000 GHz Ref Lvi Offset 4.20 dB Ref Value 24.20 dBm -2.11 dBm Scale/Div 10.0 dB Center 2.41200 GHz #Video BW 300.00 kHz Span 30 MHz #Res BW 100.00 kHz Sweep 3.33 ms (10001 pts) Occupied Bandwidth 18.798 MHz Total Power 22.4 dBm Transmit Freq Error x dB Bandwidth -11.557 kHz 99.00 % % of OBW Power 15.04 MHz -6.00 dB x dB Mar 06, 2024 11:27:17 PM -6dB Bandwidth NVNT ax20 2437MHz Ant1 Spectrum Analyzer 1
Occupied BW + Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 2.437000000 GHz KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off #IF Gain: Low Avg|Hold: 100/100 Align: Auto Mkr3 2.445213000 GHz Ref Lvl Offset 4.22 dB -2.47 dBm Scale/Div 10.0 dB Ref Value 24.22 dBm was a supplication of the Span 30 MHz Sweep 3.33 ms (10001 pts) Center 2.43700 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Occupied Bandwidth 18.794 MHz Total Power 22.6 dBm



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% of OBW Power

99.00 % -6.00 dB

-22.772 kHz 16.47 MHz

Transmit Freq Error

Mar 06, 2024 11:29:09 PM

x dB Bandwidth



1 Graph

2 Metrics

1 Graph

2 Metrics

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

37.392 MHz

Mar 06, 2024 11:21:58 PM

9.651 kHz

35.07 MHz

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Certificate #5768.01 For Question. Please Contact with WSCT www.wsct-cert.com -6dB Bandwidth NVNT ax20 2462MHz Ant1 Spectrum Analyzer 1
Occupied BW + Input Z: 50 Ω Trig: Free Run Center Freq: 2.462000000 GHz KEYSIGHT Input: RF Atten: 30 dB Corr CCorr Freq Ref: Int (S) Gate: Off #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Align: Auto Mkr3 2.467054000 GHz Ref Lvi Offset 4.28 dB Ref Value 24.28 dBm -0.46 dBm Scale/Div 10.0 dB Center 2.46200 GHz #Video BW 300.00 kHz Span 30 MHz #Res BW 100.00 kHz Sweep 3.33 ms (10001 pts) Occupied Bandwidth 13.425 MHz Total Power 23.6 dBm Transmit Freq Error x dB Bandwidth 13.612 kHz 99.00 % % of OBW Power -6.00 dB 10.08 MHz x dB Mar 06, 2024 11:20:16 PM -6dB Bandwidth NVNT ax40 2422MHz Ant1 Spectrum Analyzer 1
Occupied BW + Input Z: 50 Ω Trig: Free Run Atten: 30 dB Center Freq: 2.422000000 GHz KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off #IF Gain: Low Avg|Hold: 100/100 Align: Auto Mkr3 2.439544000 GHz Ref Lvl Offset 4.20 dB Ref Value 24.20 dBm -6.16 dBm Scale/Div 10.0 dB Center 2.42200 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 60 MHz Sweep 6.00 ms (10001 pts)



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Total Power

% of OBW Power

19.8 dBm

99.00 % -6.00 dB









Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi1

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## 6.4. Power Spectral Density

## 6.4.1. Test Specification

Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi1

Test Requirement:	FCC Part15 C Section 1	15.247 (e)		
Test Method:	KDB 558074	WHEE WHEE		
Limit:	than 8dBm in any 3kF	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.		
Test Setup:				
	Spectrum Analyzer	EUT		
Test Mode:	Transmitting mode with	modulation		
Test Procedure:	Method AVGPSD of No.558074 D01 DTS  2. The RF output of EU analyzer by RF cable was compensated to measurement.  3. Set to the maximum processed to the measurement and the second of th	<ol> <li>Transmitting mode with modulation</li> <li>The testing follows Measurement Procedure 10.3         Method AVGPSD of FCC KDB Publication         No.558074 D01 DTS Meas. Guidance v04</li> <li>The RF output of EUT was connected to the spectr analyzer by RF cable and attenuator. The path los was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the spectrum at least 1.5 times the OBW.</li> <li>Detector = RMS, Sweep time = auto couple.</li> <li>Employ trace averaging (RMS) mode over a minim of 100 traces. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report.</li> </ol>		
Test Result:	PASS			





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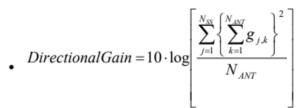
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- (i) If all antennas have the same gain,  $G_{ANT}$ :

  Directional gain =  $G_{ANT} + 10 \log(N_{ANT}/N_{SS}) dBi$ , where  $N_{SS}$  = the number of independent spatial streams of data and  $G_{ANT}$  is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for  $G_{ANT}$ .)
- (ii) If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following two formulas.
  - Directional gain = G<sub>ANT MAX</sub> + 10 log(N<sub>ANT</sub>/N<sub>SS</sub>) dBi, where N<sub>SS</sub> = the number of independent spatial streams of data and G<sub>ANT MAX</sub> is the gain of the antenna having the highest gain (in dBi).

Or,

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where

Each antenna is driven by no more than one spatial stream;

 $N_{SS}$  = the number of independent spatial streams of data;

 $N_{ANT}$  = the total number of antennas

 $g_{j,k} = 10^{G_k/20}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;  $G_k$  is the gain in dBi of the kth antenna.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS) dB.

Note: Nant=2, Array gain=10Log (Nant/Nss)=10log(2/1)=3.01dB,

Directional gain=Gant+Array gain=2.70dBi+3.01dB=5.71dBi, not exceeding 6, so psd limits

remain unchanged.

WEIGH WEIGH WEIGH WEIGH WEIGH WEIGH

(She)









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## 6.4.2. Test data(worst)

MAIN Ant1
-----------

			WAIN AIR		
	Mode	Frequency	Total PSD	Limit	Verdict
		(MHz)	(dBm/3kHz)	(dBm/3kHz)	
1	b	2412	-6.46	8	Pass
	b	2437	-6.23	8	Pass
	b	2462	-5.94	8	Pass
	g	2412	-7.66	8	Pass
	g	2437	-7.62	8	Pass
*	g	2462	-7.57	8	Pass
	n20	2412	-8.57	8	Pass
	n20	2437	-8.52	8	Pass
1	n20	2462	-8.57	8	Pass
1	n40	2422	-13.92	8	Pass
	n40	2437	-10.7	8	Pass
	n40	2452	-12.11	8	Pass
	ax20	2412	-9.52	8	Pass
Ļ	ax20	2437	-9.38	8	Pass
	ax20	2462	-6.18	8	Pass
	ax40	2422	-15.75	8	Pass
,	ax40	2437	-12.45	8	Pass
1	ax40	2452	-13.96	85	Pass

#### AUX Ant2

			AUX Ant2		V
	Mode	Frequency	Total PSD	Limit	Verdict
1		(MHz)	(dBm/3kHz)	(dBm/3kHz)	
-	b	2412	-8.33	8	Pass
	b	2437	-8.95	8	Pass
	b	2462	-8.57	8	Pass
	g	2412	-10.21	8	Pass
1	g	2437	-10.01	8	Pass
	g	2462	-10.16	8	Pass
	n20	2412	-10.94	8	Pass
	n20	2437	-10.2	8	Pass
D,	n20	2462	-10.43	8	Pass
	n40	2422	-14.75	8	Pass
	n40	2437	-12.59	8	Pass
	n40	2452	-12.59	8	Pass
	ax20	2412	-10.86	8 5 7	Pass
	ax20	2437	-10.26	8	Pass
	ax20	2462	-10.37	8	Pass
	ax40	2422	-15.47	8	Pass
	ax40	2437	-13.48	8	Pass
2	ax40	2452	-13.34	8	Pass
Group	X		X	X	
(5)					
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10	THE REAL PROPERTY.	ADD D. Haller	CONTRACTOR OF THE	and part processors	

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#### **MIMO Mode**

	minio mode						
_	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict	N	
?	n20	2412	-6.59		Door		
				8	Pass		
	n20	2437	-6.27	8	Pass		
A	n20	2462	-6.39	8	Pass		
	n40	2422	-11.30	8	Pass	1	
	n40	2437	-8.53	8	Pass		
	n40	2452	-9.33	8	Pass		
	ax20	2412	-7.13	8	Pass		
2	ax20	2437	-6.79	8	Pass	1	
	ax20	2462	-4.78	8	Pass		
	ax40	2422	-12.60	8	Pass		
	ax40	2437	-9.92	8	Pass		
1	ax40	2452	-10.63	85/7	Pass	1	

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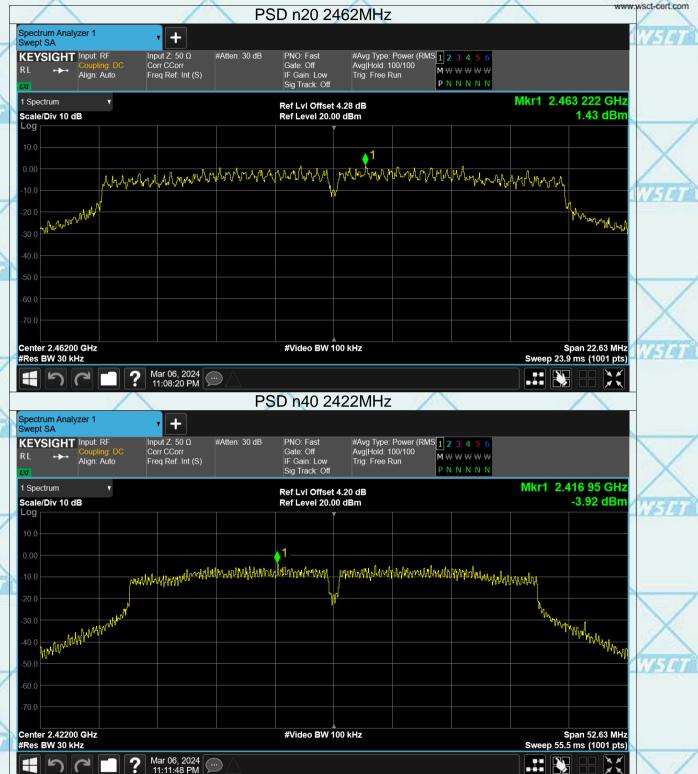




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World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.







Certificate #5768.01

For Question,
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Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi1

Certificate #5768.01

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1 Spectrum

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Center 2.43700 GHz

Mar 08, 2024 11:53:34 PM

#Res BW 30 kHz

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

#Video BW 100 kHz

Span 30.00 MHz

Sweep 31.7 ms (1001 pts)









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