







For Question,
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www.wsct-cert.com

TEST REPORT

FCC ID: 2ADYY-AE10

Product: Mobile Phone

Model No.: AE10

Trade Mark: TECNO

Report No.: WSCT-A2LA-R&E240300009A-Wi-Fi1

Issued Date: 11 July 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

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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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World Standard Zation Certification Testing

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ADD:Building A-B,Baoshi Science & Technology Park, Baoshi Road,Baoan District, Shenzhen, Guangdong, China TEL:0086-755-26996192 26996053 FAX:0086-755-86376605 E-mail:tengbing.wang@wscl-cert.com Http://www.wscl-cert.com

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Certificate #5768.01

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Report No.: WSCT-A2LA-R&E240300009A-Wi-Fi1

1. Test Certification

Product: Mobile Phone

Model No.:

AE10

Additional Model:

TECNO

Applicant:

TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI

STREET FOTAN NT HONGKONG

Manufacturer:

TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI

STREET FOTAN NT HONGKONG

Date of receipt:

14 February 2024

Date of Test:

15 February 2024 to 11 July 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:

Xiang

(Wang Xiang)

Checked By:

(Qin Shuiguan)

Approved By:

(Liu Fuxin)

Date:

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2. Test Result Summary

	Requirement	CFR 47 Section	Result
8	Antenna requirement	§15.203/§15.247 (c)	PASS
	AC Power Line Conducted Emission	§15.207	PASS
1	Maximum Conducted 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
6	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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3. EUT Description

Product:	Mobile Phone
Model No.:	AE10
Trade Mark:	TECNO
Software version:	AE10-H833A-U-OP-240421V2267
Hardware version:	V2.0
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,256QAM,102 4QAM) for IEEE 802.11g/n/ax
Antenna Type:	FIPA Antenna
Antenna Gain	ANT1: -5.12dBi ANT2: -4.01dBi
Operating Voltage:	Adapter: U700TSA Input: 100-240V~50/60Hz 2.0A Output: 5.0V3.0A 15.0W or 5.0-10.0V7.0A MAX or 4.0-20.0V3.5A 70.0W MAX Rechargeable Li-ion Polymer Battery Model1: BL-29GT Rated Voltage: 3.86V Rated Capacity: 2973mAh/11.48Wh Typical Capacity: 3043mAh/11.75Wh Limited Charge Voltage: 4.53V Rechargeable Li-ion Polymer Battery Model2: BL-25MT Rated Voltage: 3.86V Rated Capacity: 2637mAh/10.18Wh Typical Capacity: 2707mAh/10.45Wh Limited Charge Voltage: 4.53V
Remark:	N/A.

Note: 1. N/A stands for no applicable.

2. Antenna gain provided by the customer.











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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	2141	2412MHz	4	2427MHz	7	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 I		4	2427MHz	117-11	2442MHz	1370	- /
-	\	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

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:					
1	Temperature:	25.0 °C				
	Humidity:	56 % RH				
	Atmospheric Pressure:	1010 mbar				
-	Test Mode:					
7	Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)				
3						

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.							
WATER	Mode	V5191					
	802.11b						
802.11g							
AVETO	802.11n/ax(H20)	THE PARTY OF THE P					
X	802.11n/ax(H40)	X					
Final Test Mode:							
Operation mode:	Keep the EU with modulati	T in continuous transmitting on					

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	U700TSA	1	1	TECNO

Note:

- 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.

	WSET	WETER	WEG	N/ETG	WATER
AVE	$\langle \ \rangle$				701
	WEIT	N/SI 41	NEG	NETA	WEIGH
NVE	$\langle \ \rangle$		AV.	19 NV	700
	WSEI	WEIGH	WEIGH	WESTER	WEIGH
AVE:	THE THE PARTY OF T	NIE!			700
	son & Tece	V/6741	7/2741	N/S/ET	N/FIRE
	WSET Sherical WSET	77.69			744
West of the last o	2月 世标松	所认证股份 ADD:Building A-B Baos	shi Science & Technology Park, Ba	oshi Road, Bao'an District, Shenzh	en, Guangdong, China Http://www.wsci-com/com

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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 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

CNAS - Registration Number: L3732

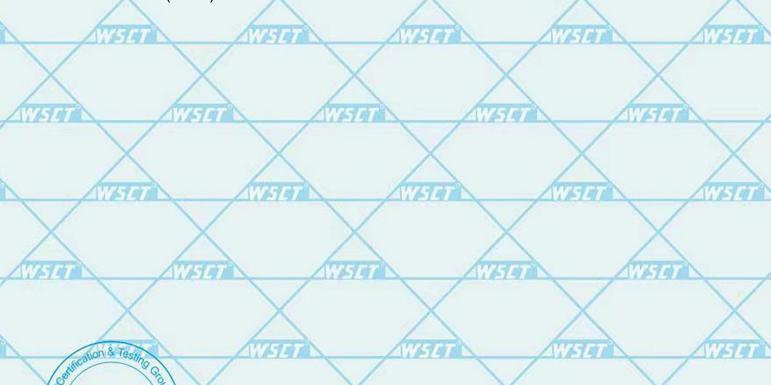
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

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

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

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 %.

1	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±2.4%
	31/5/	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
/	5	All emissions, radiated(>1GHz)	±4.7dB
	9	Temperature	±0.5°C
	7 X	Humidity	±2.0%
	8	Receiver Spurious Emissions	±2.5%
	9	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%
1	10	Transmitter Unwanted Emission in the out-of Band	±1.3%
	11	Occupied Channel Bandwidth	±2.4%

AVE I	ATH.	NY B	GT AVI	941	YETH A
NV-5141	Wister	Wister	W-51-01	N/A-TAI	
WETS				514	WESTER
AVE 141	WESTER	WHITE	NISTA	77674	
\times				5117	W-141
Solitication & Testing WSET	& Croup (Shenz)	VETRE	A VASOR	W25141	

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5.4.MEASUREMENT INSTRUMENTS

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_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	Z
	Test software		EZ-EMC	CON-03A	-	<u> </u>	
4	Test software		MTS8310	NET OF	- 1	1511	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	1
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	/
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	ζ
<	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
7	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	1
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	1
	Pre Amplifier	HR	HP8447E	2945A02715	11/05/2023	11/04/2024	Z
1	Pre-Amplifier	CDSI	PAP-1G18-38	\vee	11/05/2023	11/04/2024	
	Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2023	11/04/2024	
E	9*6*6 Anechoic	4	7-744	1779	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	>
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	7
.,	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	
E	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	
	Loop Antenna	EMCO	6502 // 5/	00042960	11/05/2023	11/04/2024	7
1	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
1	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
4	Power sensor	Anritsu	MX248XD	AVZTATA	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	1
				V. a			











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Test Results and Measurement Data 6.

Antenna requirement

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.

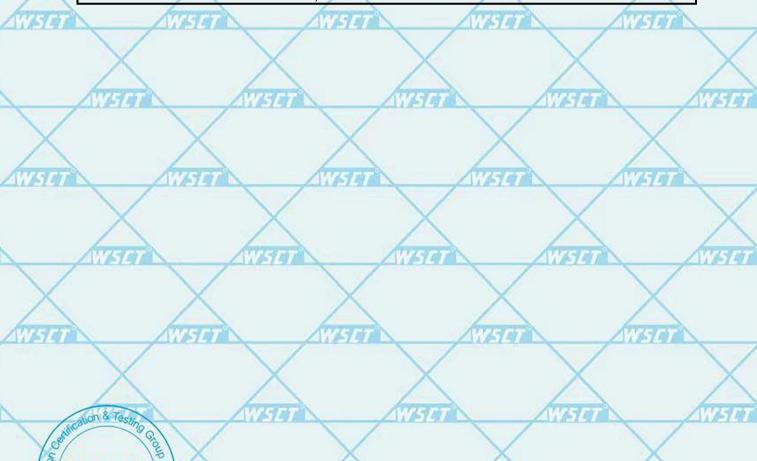
15.247(c) (1)(i) requirement:

(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.

E.U.T Antenna:

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The Wi-Fi antenna is a FIPA Antenna, it meets the standards, and the best case gain of the antenna is ANT1:-5.12dBi, ANT2:-4.01dBi.











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6.2. Conducted Emission

6.2.1. Test Specification

6.2.1. Test Specification			
Test Requirement:	FCC Part15 C Section	15.207	
Test Method:	ANSI C63.10:2014	177-14	AVESTE
Frequency Range:	150 kHz to 30 MHz		X
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	Average 56 to 46* 46 50
X	Reference	e Plane	V .
Test Setup:	40cm E.U.T AC powe Test table/Insulation plane	80cm LISN Filter	— AC power
Test Mode:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m Charging + transmitting		X
WEIGH	1. The E.U.T is connectine impedance states provides a 50ohm/5 measuring equipment 2. The peripheral devices	bilization network 50uH coupling imp nt. ces are also conne	(L.I.S.N.). This pedance for the ected to the main
Test Procedure:	power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10: 2014	with 50ohm term diagram of the line are checkence. In order to fine positions of equipments must be change	test setup and d for maximum the maximum and the maximum appears and all of ed according to
Test Result:	PASS	×	
WSG O			

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6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

	WEIGH	N/6781	WELLE	N/6-14 B	N/510
NE TO SERVICE	AVE AVE			\times	15101
	W-10	775197	NVE I II	WHA	WETER
AVZ.	TO AVE				V5181
	NVI-TO I	N/A-1-4-1	NV-14	Wester	VI-THIA
	NV51			X	7519
	WEIGH	Wester	WSIG	Wister	Wister
AVZ.	100			674	1670
	Son & Taux	17574	White	WSI	774790
	W5年)			\times	73791
World 5	世标检 tarkin Style Common to Ony sroup (Shen	海认证股份 ADD:Building A-B Barten) Co. Ltd TEL:86.755-26996192	oshi Science & Technology Park, 26992308 FAX 66-758-86376605	Baoshi Road, Bao'an District, She E-mail: Fengbing Wang@wsct-cert.co	

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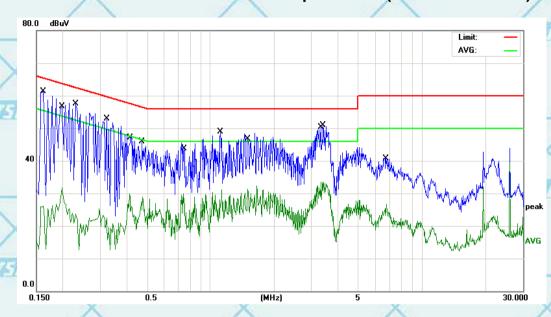
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Test data

Please refer to following diagram for individual

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



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		1
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
/	1	*	0.1620	50.92	10.41	61.33	65.36	-4.03	QP	
5	2		0.1980	21.27	10.41	31.68	53.69	-22.01	AVG	
	3		0.2300	47.03	10.42	57.45	62.45	-5.00	QP	٥
	4		0.3220	42.42	10.43	52.85	59.65	-6.80	QP	
	5		0.4140	19.53	10.45	29.98	47.57	-17.59	AVG	7
	6		0.4740	35.51	10.46	45.97	56.44	-10.47	QP	
/	7		0.7460	19.31	10.49	29.80	46.00	-16.20	AVG	
5	8		1.1140	38.36	10.53	48.89	56.00	-7.11	QP	
- '	9		1.4980	20.79	10.58	31.37	46.00	-14.63	AVG	J
ľ	10		3.3140	22.77	10.67	33.44	46.00	-12.56	AVG	1
	11		3.4140	40.31	10.67	50.98	56.00	-5.02	QP	7
	12		6.7980	16.03	10.73	26.76	50.00	-23.24	AVG	

Warld Stan 100 pinc community (2) of strong (Sh







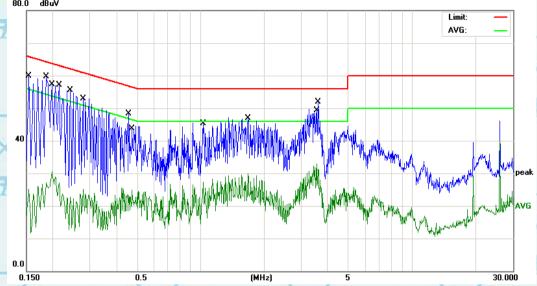


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3	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
7			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1539	49.59	10.41	60.00	65.78	-5.78	QP
	2		0.1860	49.35	10.41	59.76	64.21	-4.45	QP
	3		0.1980	20.18	10.41	30.59	53.69	-23.10	AVG
>	4		0.2140	16.64	10.41	27.05	53.04	-25.99	AVG
E	5		0.2420	45.07	10.42	55.49	62.02	-6.53	QP
- 3	6		0.2779	42.41	10.43	52.84	60.88	-8.04	QP
	7		0.4580	37.81	10.46	48.27	56.73	-8.46	QP
	8		0.4740	14.40	10.46	24.86	46.44	-21.58	AVG
	9		1.0300	16.73	10.51	27.24	46.00	-18.76	AVG
>	10		1.6740	19.27	10.61	29.88	46.00	-16.12	AVG
E	11		3.5340	22.24	10.68	32.92	46.00	-13.08	AVG
4	12	*	3.5940	41.14	10.68	51.82	56.00	-4.18	QP

Note1:

Freq. = Emission frequency in MHz

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

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

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

 $Limit (dB\mu V) = Limit stated in standard$

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

Q.P. =Quasi-Peak AVG =average

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

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Report No.: WSCT-A2LA-R&E240300009A-Wi-Fi1 6.2.3. Maximum Conducted Output Power

6.2.4. Test Specification

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Test Requirement:	FCC Part15 C Section 15.2	247 (b)(3)	
Test Method:	KDB 558074		
Limit:	30dBm	FTT	ZITATER
Test Setup:		•	
	Spectrum Analyzer	EUT	
Test Mode:	Transmitting mode with mo	dulation	
Test Procedure:	 The testing follows the M FCC KDB No. 558074 I v04. The RF output of EUT w analyzer by RF cable at was compensated to the measurement. Set to the maximum pow EUT transmit continuou Measure the conducted results in the test report 	ors D01 Meas. On the connected to the co	Guidance the spectrum to path loss table the
Test Result:	PASS		
AVE THE AVE	ET AWSET	116741	



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6.2.5. Test Data

Λ	N	т	,
А			

>	Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)	Verdict
	b	2412	10.35	30	Pass
	b	2437	11.53	30	Pass
	b	2462	12.74	30	Pass
	g	2412	13.20	30	Pass
	g /	2437	12.99	30	Pass
	g	2462	11.76	30	Pass
\	n20	2412	10.75	30	Pass
1	n20	2437	11.08	30	Pass
	n20	2462	12.18	30	Pass
Ç	n40	2422	11.12	30	Pass
	n40	2437	10.10	30	Pass
	n40	2452	9.74	30	Pass
	ax20	2412	9.49	30	Pass
	ax20	2437	11.29	30	Pass
	ax20	2462	12.01	30	Pass
	ax40	2422	12.16	30	Pass
\	ax40	2437	11.20	30	Pass
/	ax40	2452	11.04	30	Pass

ANT2

	Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)	Verdict	/ /
	b	2412	8.98	30	Pass	49
V	b	2437	11.30	30	Pass	
	b	2462	8.40	30	Pass	1
	g	2412	11.23	30	Pass	1
7	g	2437	12.81	30	Pass	
2	g	2462	11.25	30	Pass	
	n20	2412	10.99	30	Pass	1
	n20	2437	12.29	30	Pass	
	n20	2462	10.98	30	Pass	
	n40 /	2422	10.38	30	Pass	75
	n40	2437	12.25	30	Pass	32
1	n40	2452	12.50	30	Pass	
	ax20	2412	11.81	30	Pass	
	ax20	2437	12.75	30	Pass	
7	ax20	2462	11.74	30	Pass	
-	ax40	2422	11.56	30	Pass	
	ax40	2437	13.08	30	Pass	1
	ax40	2452	13.88	30	Pass	

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n20 2412 13.88 30 Pass n20 2437 14.74 30 Pass n20 2462 14.63 30 Pass n40 2422 13.78 30 Pass n40 2437 14.32 30 Pass n40 2452 14.35 30 Pass ax20 11.81 13.81 30 Pass ax20 12.75 15.09 30 Pass ax20 11.74 14.89 30 Pass ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass		Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)	Verdict	T A
n20 2462 14.63 30 Pass n40 2422 13.78 30 Pass n40 2437 14.32 30 Pass n40 2452 14.35 30 Pass ax20 11.81 13.81 30 Pass ax20 12.75 15.09 30 Pass ax20 11.74 14.89 30 Pass ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass	/	n20	2412	13.88	30	Pass	
n40 2422 13.78 30 Pass n40 2437 14.32 30 Pass n40 2452 14.35 30 Pass ax20 11.81 13.81 30 Pass ax20 12.75 15.09 30 Pass ax20 11.74 14.89 30 Pass ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass	100	n20	2437	14.74	30	Pass	1000
n40 2437 14.32 30 Pass n40 2452 14.35 30 Pass ax20 11.81 13.81 30 Pass ax20 12.75 15.09 30 Pass ax20 11.74 14.89 30 Pass ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass	1	n20	2462	14.63	30	Pass	- CUPIS
n40 2452 14.35 30 Pass ax20 11.81 13.81 30 Pass ax20 12.75 15.09 30 Pass ax20 11.74 14.89 30 Pass ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass		n40	2422	13.78	30	Pass	
ax20 11.81 13.81 30 Pass ax20 12.75 15.09 30 Pass ax20 11.74 14.89 30 Pass ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass		n40	2437	14.32	30	Pass	
ax20 12.75 15.09 30 Pass ax20 11.74 14.89 30 Pass ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass		n40	2452	14.35	30	Pass	
ax20 11.74 14.89 30 Pass ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass		ax20	11.81	13.81	30	Pass	7
ax40 11.56 14.88 30 Pass ax40 13.08 15.25 30 Pass		ax20	12.75	15.09	30	Pass	
ax40 13.08 15.25 30 Pass	1	ax20	11.74	14.89	30	Pass	
		ax40	11.56	14.88	30	Pass	X
42.00 45.70 20 Dece		ax40	13.08	15.25	30	Pass	
ax40 13.88 13.70 30 Pass	73	ax40	13.88	15.70	30	Pass	W51

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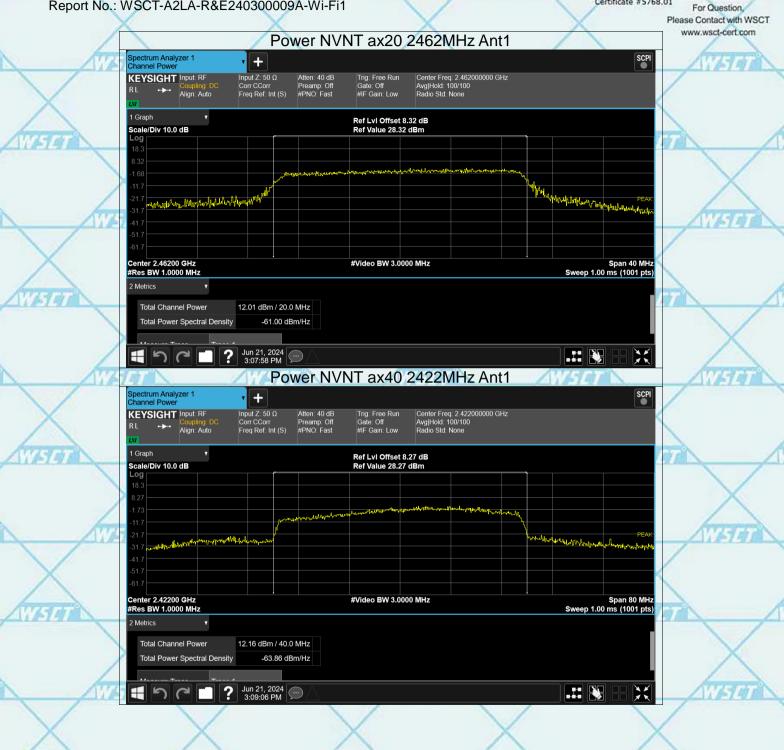






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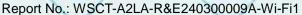












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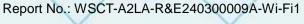








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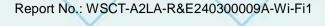




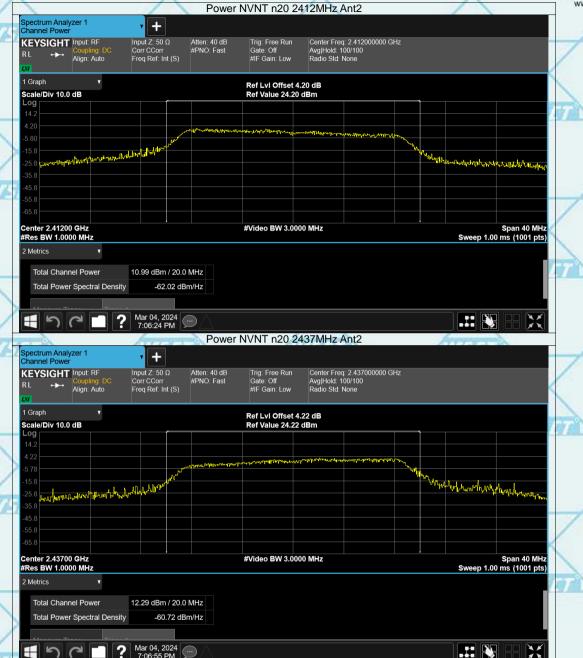








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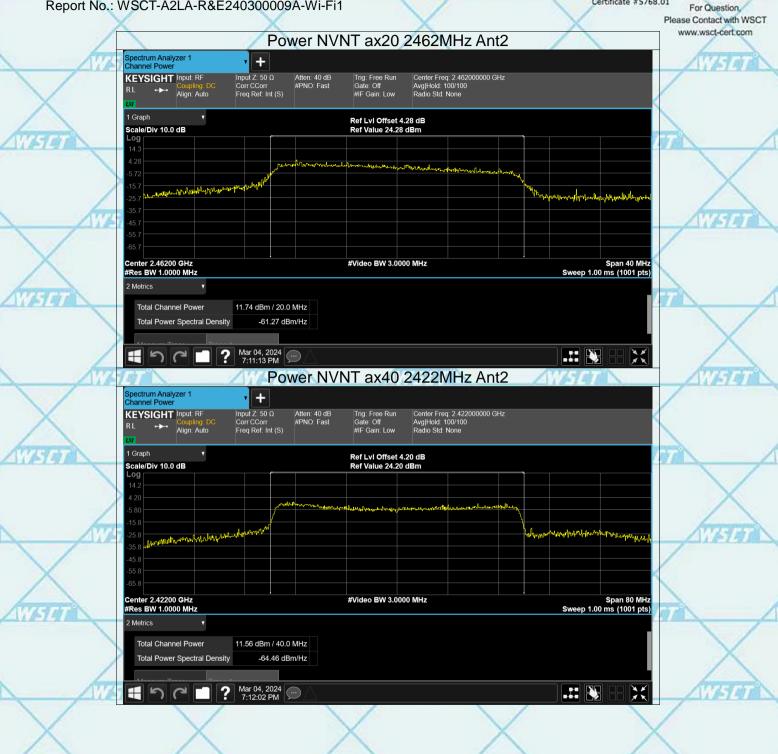






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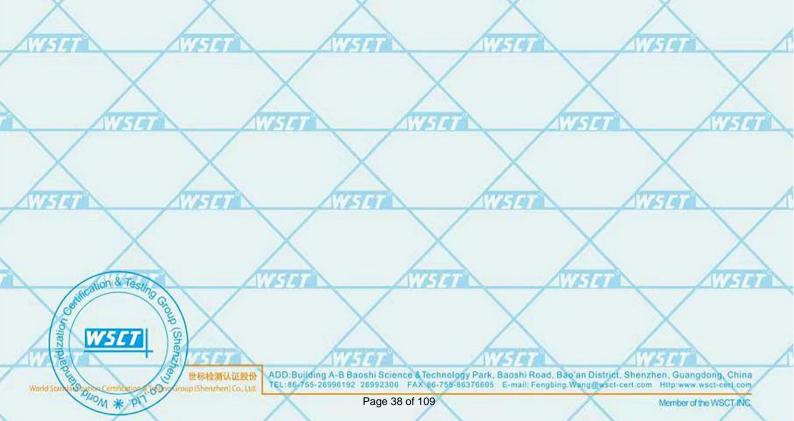
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6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2	2)
Test Method:	KDB 558074	115141
Limit:	>500kHz	X
Test Setup:		
	Spectrum Analyzer	EUT
Test Mode:	Transmitting mode with modulation	WSET
Test Procedure:	The testing follows FCC KDB Pu DTS D01 Meas. Guidance v04. Set to the maximum power setting EUT transmit continuously. Make the measurement with the	ng and enable the spectrum analyzer's
	resolution bandwidth (RBW) = 300 Video bandwidth (VBW) = 300 an accurate measurement. The be greater than 500 kHz. 4. Measure and record the results	kHz. In order to make 6dB bandwidth must
Test Result:	PASS	





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6.3.2. Test data(worst)

Mode	Frequency	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth	Verdict
	(MHz)		(MHz)	
b	2412	8.061	0.5	Pass
b	2437	9.037	0.5	Pass
b	2462	8.542	0.5	Pass
g	2412	13.20	0.5	Pass
g	2437	15.70	0.5	Pass
g	2462	11.99	0.5	Pass
n20	2412	15.07	0.5	Pass
n20	2437	14.43	0.5	Pass
n20	2462	16.33	0.5	Pass
n40	2422	25.03	0.5	Pass
n40	2437	35.76	0.5	Pass
n40	2452	35.69	0.5	Pass
ax20	2412	14.53	0.5	Pass
ax20	2437	16.54	0.5	Pass
ax20	2462	16.99	0.5	Pass
ax40	2422	22.60	0.5	Pass
ax40	2437	36.53	0.5	Pass
ax40	2452	37.73	0.5	Pass

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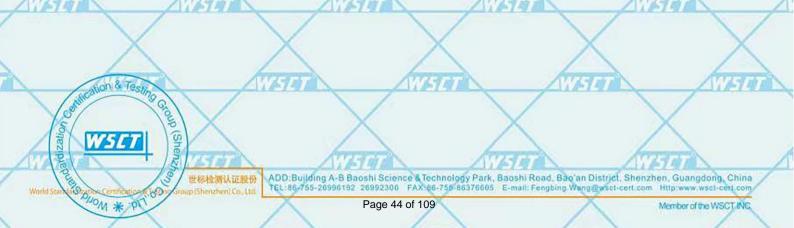










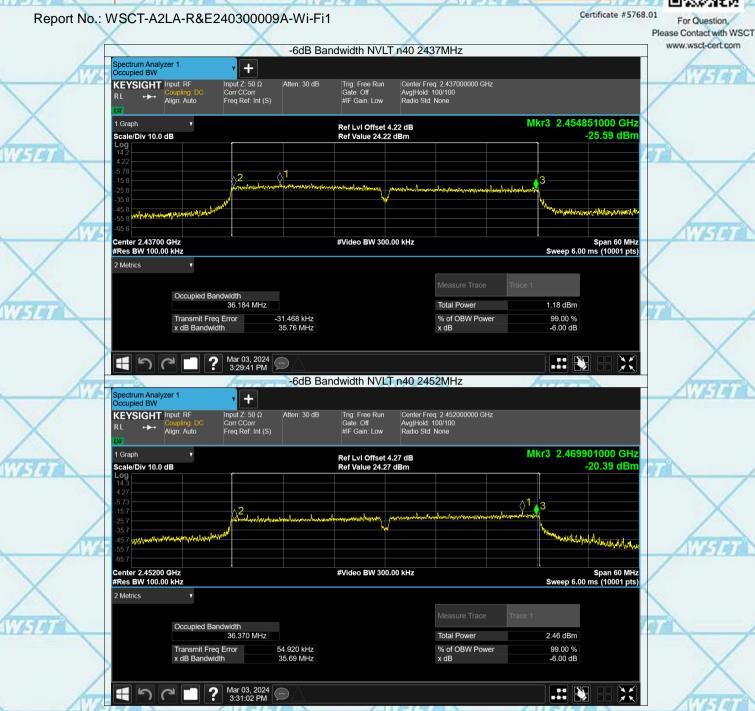


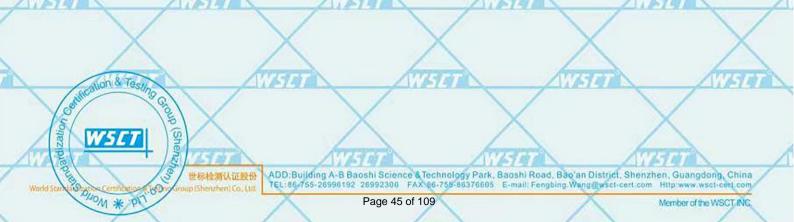




















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6.4. Power Spectral Density

6.4.1. Test Specification

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











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6.4.2. Test data(worst)

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Mode	Frequency	Total PSD	Limit	Verdict
	(MHz)	(dBm/3kHz)	(dBm/3kHz)	
b	2412	-14.17	8	Pass
b	2437	-12.17	8	Pass
b	2462	-12.99	8	Pass
g	2412	-17.68	8	Pass
g	2437	-17.86	8	Pass
g	2462	-21.70	8	Pass
n20	2412	-20.74	8	Pass
n20	2437	-20.50	8	Pass
n20	2462	-19.05	8	Pass
n40	2422	-22.39	8	Pass
n40	2437	-24.41	8	Pass
n40	2452	-26.05	8	Pass
ax20	2412	-23.85	8	Pass
ax20	2437	-21.60	8	Pass
ax20	2462	-21.60	8	Pass
ax40	2422	-23.17	8	Pass
ax40	2437	-23.39	8	Pass
ax40	2452	-25.13	8	Pass

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Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
b	2412	-6.46	8	Pass
b	2437	-2.75	8	Pass
b	2462	-7.32	8	Pass
g	2412	-10.16	8	Pass
g	2437	-7.51	8	Pass
g	2462	-9.57	8	Pass
n20	2412	-10.22	8	Pass
n20	2437	-7.99	8	Pass
n20	2462	-10.17	8	Pass
n40	2422	-12.46	8	Pass
n40	2437	-10.72	8	Pass
n40	2452	-9.86	8	Pass
ax20	2412	75-11.24	855	Pass
ax20	2437	-8.99	8	Pass
ax20	2462	-10.28	8	Pass
ax40	2422	-12.52	8	Pass
ax40	2437	-10.30	8	Pass
ax40	2452	-8.48	8	Pass

ax40

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MIMO mode

	Mode	Frequency	Total PSD	Limit	Verdict	
7		(MHz)	(dBm/3kHz)	(dBm/3kHz)		
	n20	2412	-9.85	8	Pass	
	n20	2437	-7.75	8	Pass	/
4	n20	2462	-9.64	8	Pass	Au
1	n40	2422	-12.04	8	Pass	710
	n40	2437	-10.54	8	Pass	
	n40	2452	-9.76	8	Pass	
	ax20	2412	-11.01	8	Pass	
÷	ax20	2437	-8.76	8	Pass	1
-	ax20	2462	-9.97	8	Pass	1
	ax40	2422	-12.16	8	Pass	
2	ax40	2437	-10.09	8	Pass	
B	ax40	2452	-9.85	8 9 9	Pass	177

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NVET				HAR	11/2/19
WEIGH	Wiston	Wester	NV-51-01	N/5191	
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