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TEST REPORT

FCC ID: 2AXYP-OSW-811 **Product: Smart Watch** Model No.: OSW-811H **Trade Mark: oraimo** Report No.: WSCT-A2LA-R&E240600027A-15B Issued Date: 20 June 2024

Issued for:

ORAIMO TECHNOLOGY 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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Test Certification

1	I. Test Cer	tification Please Contact with WSC: www.wscl-cert.com	
	Product:	Smart Watch	
	Model No.:	OSW-811H	
	Additional Model:	oraimo	
	Applicant:	ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
	Manufacturer:	ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
	Factory:	Chongqing Zhouhai Intelligent Technology Co., Ltd. 4F,Building 9,Linkong Intelligent Industrial Park,No 6 Langyue Road,Shuangfengqiao Subdistrict,Yubei District,Chongqing,China	
	Date of Test:	07 June 2024 to 20 June 2024	
1	Applicable Standards:	FCC CFR Title 47 Part 15 Subpart B	

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)

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Chen Checked By:

Approved By:

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(Liu Fuxin)

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Date: 20 imo wil

(Chen Xu)

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:fengbing.wang@wsct-cert.com Http://www.wsct-cert.com 世标检测认证股份 World Standardization Certification & Testin oup (Shenzhen) Co., Ltd.

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	2. GENER		For Question, Contact with WSCT w.wsct-cert.com
	Product Name:	Smart Watch 7 WSET WSET	िमन
\langle	Model :	OSW-811H	
100	Trade Mark:	oraimo	
	Operating Voltage	Rechargeable Li-ion Battery: 551925PN3 Voltage: 3.8V Rated Capacity: 290mAh Limited Charge Voltage: 4.35V	
1	Remark:	N/A.	

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3. Test Result Summary

	ATTAGE ATTAG	TTA AVERAGE	ATTEN /	WSET N
~	Requirement	CFR 47 Section	Result	
	CONDUCTED EMISSION	§15.107	PASS	
	RADIATED EMISSION	§15.109 AVSUT	PASS	-/

Note:

- 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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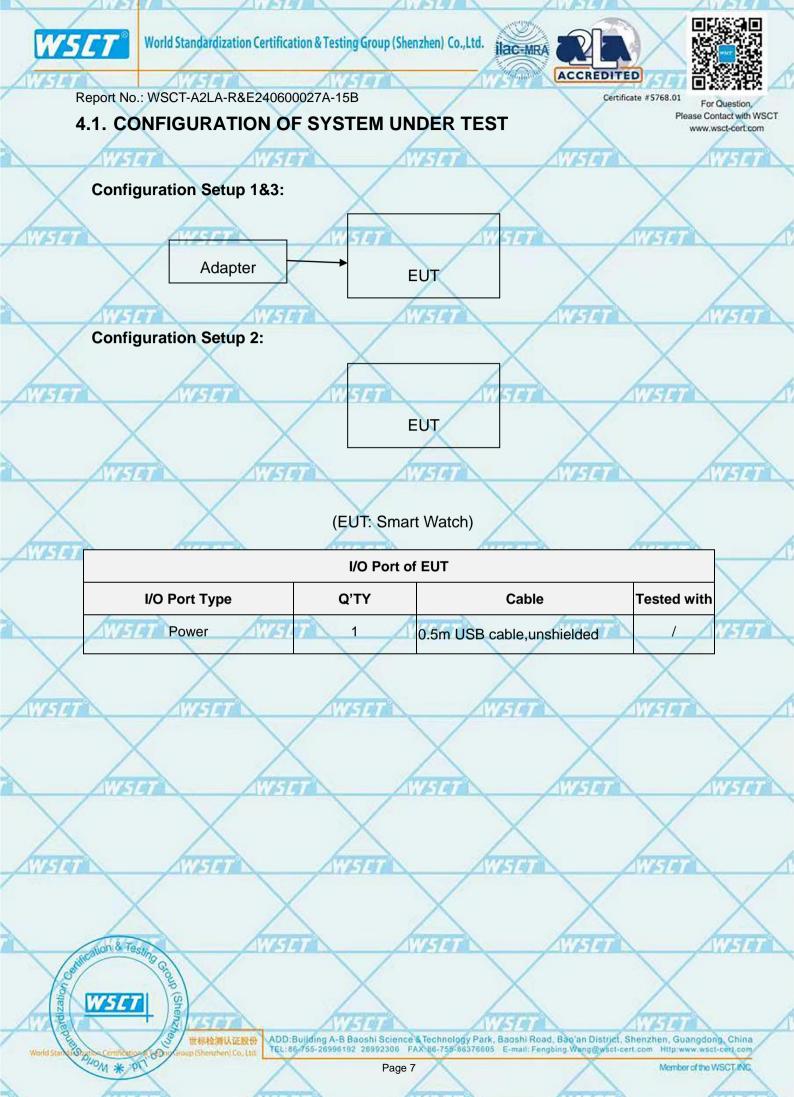
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4. TEST METHODOLOGY

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.

Cvaluat	ted respectively.				
/	Pretest Mode	De	escription		\wedge
	Mode 1	STT AV5C	harging		WISTET
	Mode 2	BI	uetooth		
X	Mode 3	Bluetoo	th + charging	X	
AVE TO	WISTO	AVISION A	WISIT	WISIT	
- Internet	Turia		Auros	/	
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World Start in Option World Start in Option	3 世标检测认证股份 A	AV75 CT ADD:Building A-B Baoshi Science & Techno FEL:86/755-26996192 26992300 FAX 96-758	ology Park, Baoshi Road, Bao'an Dis	istrict, Shenzhen, Gua	angdong, China
World Star No. Partie Certifica	ation (160no sroup (Shenzhen) Co. Ltd.	EL:86-755-26996192 26992306 FAX-86-755 Page 6	5-86376605 E-mail: Fengbing.Wang@		ww.wsci-ceri.com arof the WSCT INC.
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4.2. DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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

I all also	- C.X.	Seven and a second	A	SA. ATTO TH		All the start of the
514	ltem	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	/	XCU32		/

Note: (1)

(2)

The support equipment was authorized by Declaration of Confirmation. For detachable type I/O cable should be specified the length in cm in ^rLength_a column.



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5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	<i>C1</i>
<	Test software		EZ-EMC	CON-03A		×	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
1	LISN AV54	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	/
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
	System Controller	W CT	SC100	<u> </u>	11/05/2023	11/04/2024	17
2	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
7	Horn Antenna 757	SCHWARZBECK	5 C 7 9120D	1141	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2023	7/28/2024	1
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	$\overline{\}$
	9*6*6 Anechoic	ATTAT	ATTA	- /	11/05/2023	11/04/2024	14
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6. Facilities and Accreditations

6.1. 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."

6.2. 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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6.3. 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

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

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7. EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

		A standard and a	21172 - 4 m		1112 - and man
FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	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

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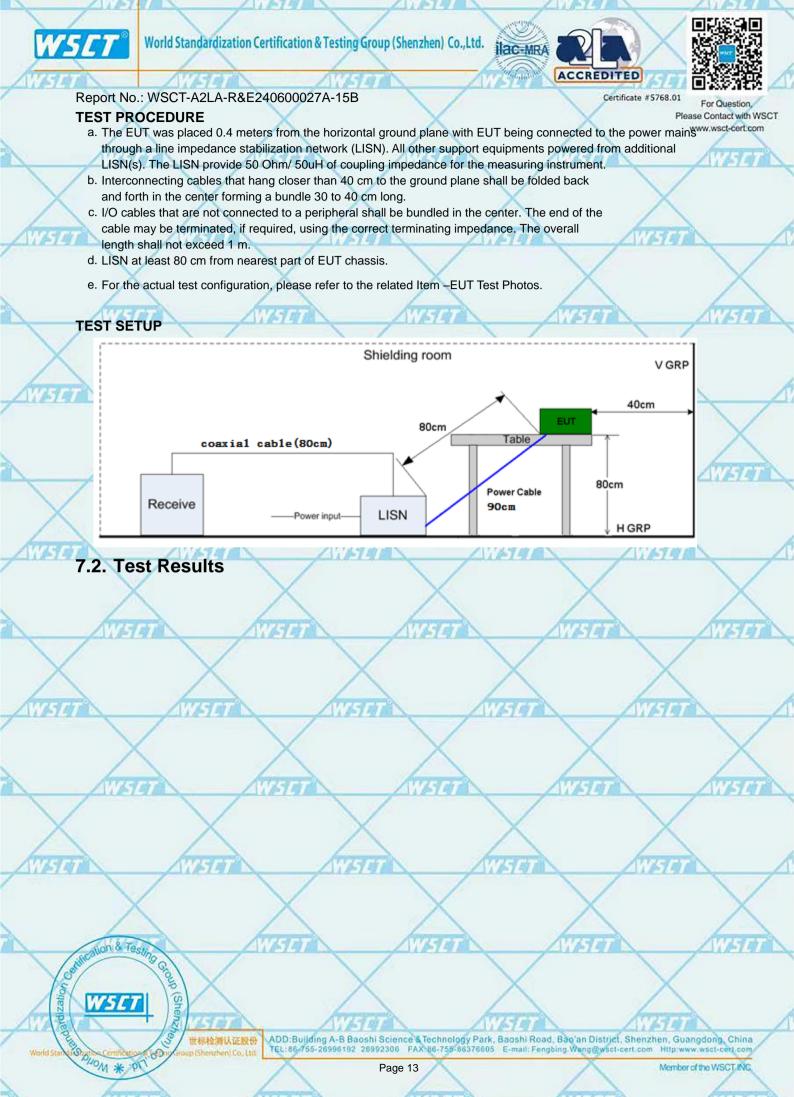
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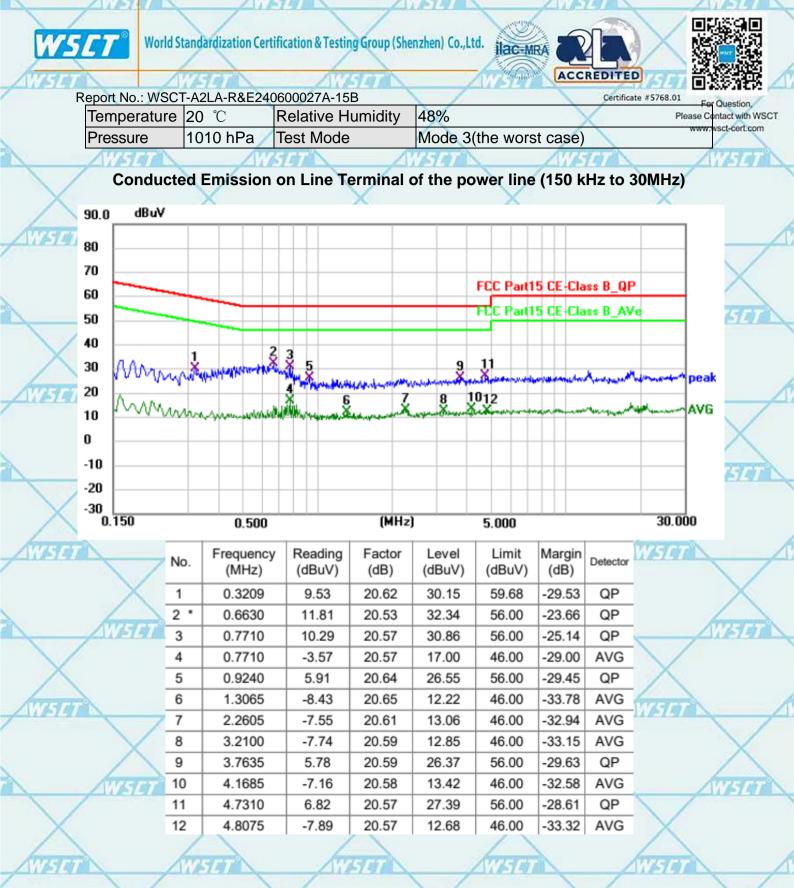
- (1) The tighter limit applies at the band edges.
 - (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The fall series a	and the second second	the set of the set	
The following	table is the se	etting of the	receiver

X	Receiver Parameters	Setting	
-	Attenuation	10 dB	
19	Start Frequency	0.15 MHz	-
	Stop Frequency	30 MHz	1
	IF Bandwidth	9 kHz	1
			/







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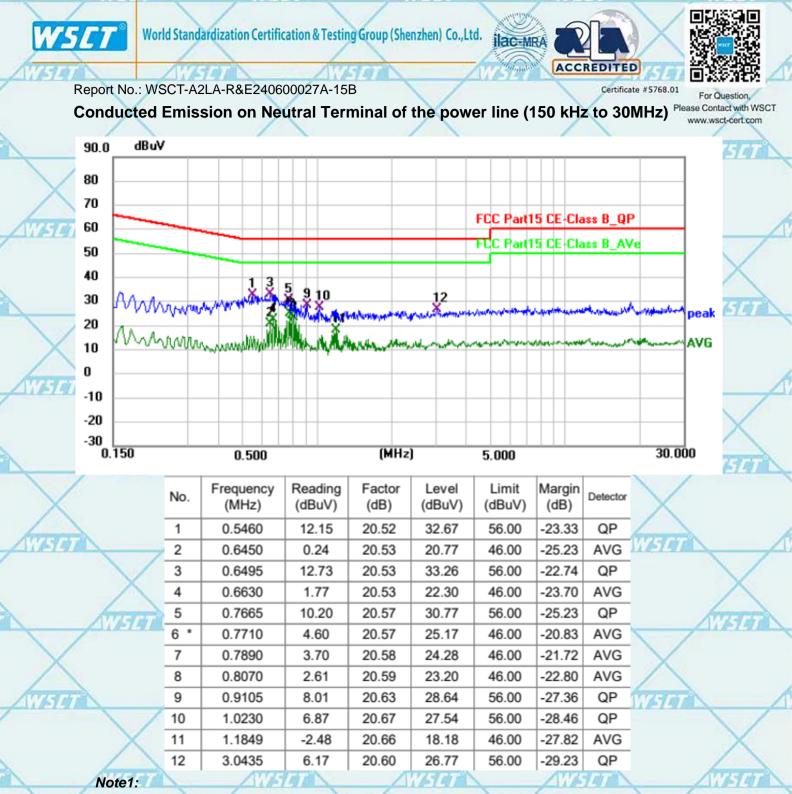
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Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = LISN 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 μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

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

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7.3. RADIATED EMISSION MEASUREMENT

7.3.1. Radiated Emission Limits

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3
	ATT STAN	ATT A

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

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(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

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









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TEST PROCEDURE

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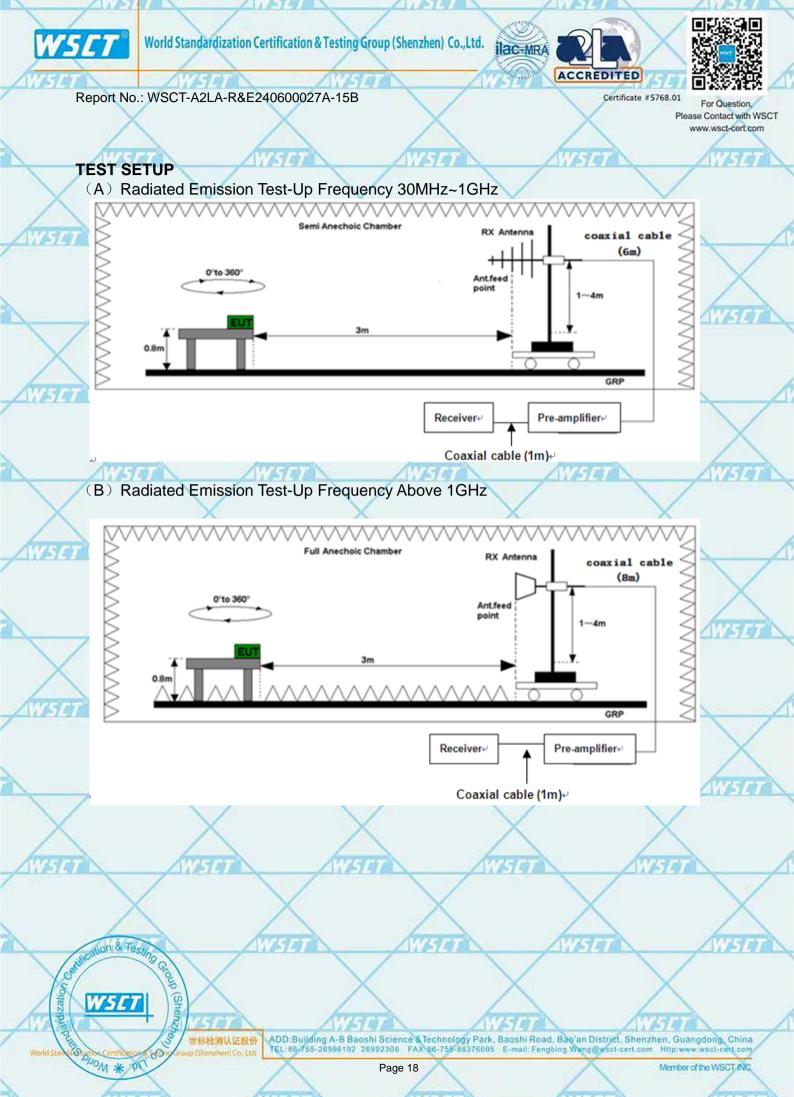
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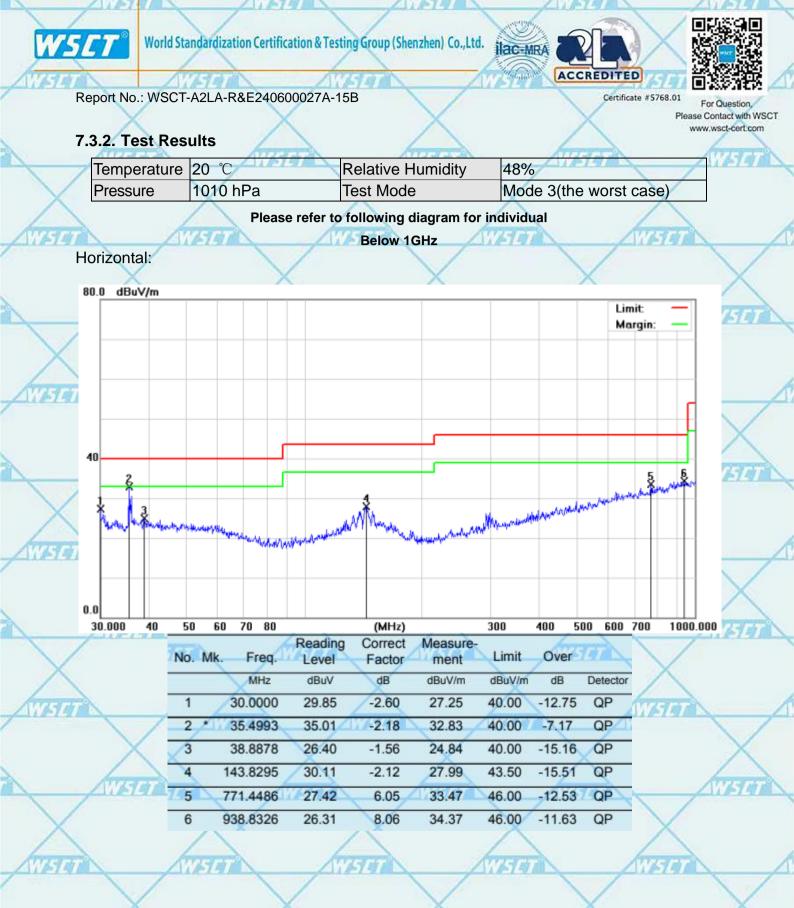
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- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground 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.







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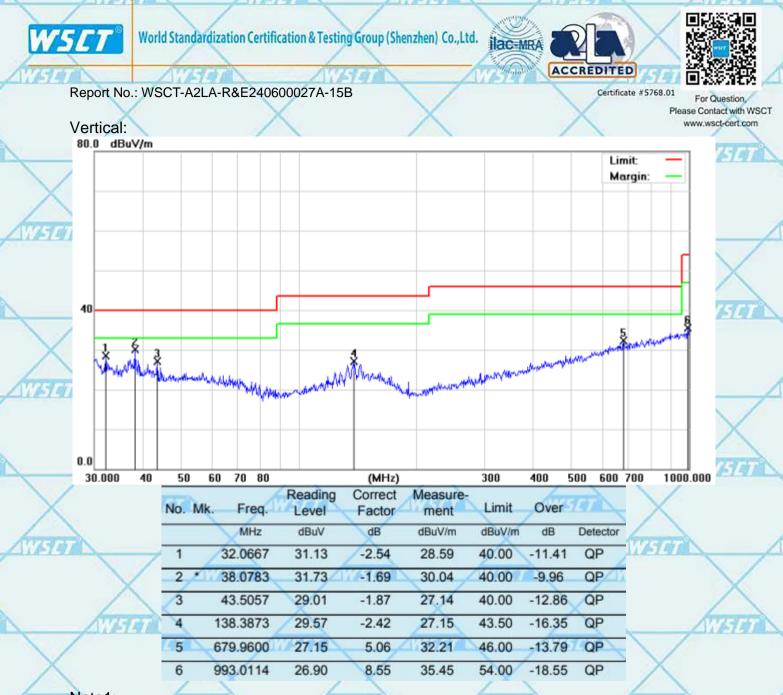
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Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated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

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TEST RESULTS

Above 1GHz(1~26GHz) :(Mode 3-worst case)

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	ÁV	PK	AV
1831.92	V	60.60	39.70	74	54	-13.40	-14.30
2411.28	V	58.64	39.65	74	54	-15.36	-14.35
1806.30	Н	59.31	39.86	74	54	-14.69	-14.14
2380.73	Н	59.91	40.91	74	54	-14.09	-13.09

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

Freq. = Emission frequency in MHz

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

Over= Emission Level - Limit.

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

*****END OF REPORT*****

