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TEST REPORT

FCC ID: 2AXYP-OTW-330S-L

Product: True Wireless Earbuds

Model No.: OTW-330S

Trade Mark: oraimo

Report No.: WSCT-A2LA-R&E240400017A-15B

Issued Date: 19 April 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

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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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Report No.: WSCT-A2LA-R&E240400017A-15B

Revision History

Certificate #5768.01

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TABLE OF CONTENTS

/	WHAT WHAT WHAT WHAT
1.	Test Certification4
2.	GENERAL DESCRIPTION OF EUT5
7143.	Test Result Summary6
4.	TEST METHODOLOGY7
	4.1. CONFIGURATION OF SYSTEM UNDER TEST
	4.2. DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)
5.	MEASUREMENT INSTRUMENTS10
6.	Facilities and Accreditations 11
V5LT	6.1. FACILITIES
	6.2. ACCREDITATIONS11
	6.3. MEASUREMENT UNCERTAINTY
7.	EMC EMISSION TEST
\times	7.1. CONDUCTED EMISSION MEASUREMENT13
	7.2. TEST RESULTS
	7.3. RADIATED EMISSION MEASUREMENT
8.	Test Setup Photographs 23
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Report No.: WSCT-A2LA-R&E240400017A-15B

1. Test Certification

Product: True Wireless Earbuds

Model No.: OTW-330S

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

Date of receipt: 28 March 2024

Date of Test: 29 March 2024 ~ 18 April 2024

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:

my Xiang

(Wang Xiang)

Checked By:

an older

(Qin Shuiguan)

Approved By:

(Liu Fuxin)

Date

April 2014

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2. GENERAL DESCRIPTION OF EUT

					www.wact-cert.c
	Product Name:	True Wireless Earbuds	1514	WETAN	1149
	Model :	OTW-330S	X	X	
	Trade Mark:	oraimo	Anna Anna	Augen	
	Operating Voltage	Li-ion Battery: 501012 Voltage: 3.7V Rated Capacity: 40mAh Limited Charge Voltage: 4.2V Charging Box: 902235 Output: 5V200mA Input:5V1A Capacity:600Ah/3.7V/2.22Wh	25141	WETER A	X 151 m
Ź	Remark:	N/A.	17791	11/5/191	

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

2. Antenna gain provided by the applicant

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	741			14.6	1100
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Page 5 of 25

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3. Test Result Summary

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	Z11/47#@\ Z17/47#		Z LATHE X
7	Requirement	CFR 47 Section	Result
	CONDUCTED EMISSION	§15.107	PASS
	RADIATED EMISSION	§15.109	PASS

	CONDUCTED EMI	SSION	§15.107		PASS	
1175191	RADIATED EMIS	SION	§15.109	WHIT	PASS	-/
		V	$\overline{}$	X	\	
i.	Note:				<u> </u>	
	1. PASS: Test item meet		WST	AVIST	NY AVIS	ETA
	V	ot meet the requirement.		V		
		not apply to the test objec				
Wister	4. The test result judgme	ent is decided by the limit	of test standard.	WSET	WHIT	1
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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.

1	Pretest Mode	Description
8	Mode 1	charging
	Mode 2	Bluetooth transmission

Note: Bluetooth earphones cannot be turned on while charging in the charging compartment.

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WSG	Wester	WHIT	WSI	WSTOT	
NV-T		$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$			7.7.0
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WET		$\langle \ \rangle$			741
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World Star Vis Argents Committation	世标检测从证股份 AD TEL	D:Building A-B Baoshi Science & Techr :86-755-26996192 26992306 FAX-86-7	nology Park, Baoshi Road, Bao'an I	District, Shenzhen, Guangdong, C	hina

Page 7 of 25









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CONFIGURATION OF SYSTEM UNDER TEST

Mode 1

0.3 m cable AC ADAPTER

EUT

Mode 2

PHOM * PIT

EUT

(EUT: True Wireless Earbuds)

I/O Port of EUT Q'TY Cable **Tested with** I/O Port Type 0.3m USB cable, Power unshielded Earphone

oup (Shen ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86/755-26998192 26992306 FAX:66-755-86376605 E-mail: Fengbing, Wang@wsct-cert.com Http://www.wsct-cert.com

Page 8 of 25







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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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	itel	U180IED	1	/
2	Keyboard				/
3	Mouse	217797	11774	41779	

Note:

- (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.

	WHE	145197	NISTAT	NEG	WEIGH
AVE					741
	NV-14	N/H	NVE I I	WHAT	NETER
ATTE					79
	WSIG	Wister	WSIG	WETER	WSGI
NIX.	Wis S				700
	X	Wister	N/F141	NV614	WEIT
	estimation & Testing God S				X

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MEASUREMENT INSTRUMENTS 5.

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	7
V	Test software	· >	EZ-EMC	CON-03A		V	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
7	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	L
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	J
	pre-amplifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	ſ
	System Controller	W CT 7	SC100-77		11/05/2023	11/04/2024	7
	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	SCHWARZBECK	9120D	1141	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2023	7/28/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	×
	9*6*6 Anechoic	17370	17730	- /	11/05/2023	11/04/2024	7

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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

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

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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 %.

	No.	Item	MU
6	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
7	4	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature W507	±0.5°C
	7	Humidity	±2.0%

	AVE TO A	17774	NIST W	WHI	WHAT
NVI-7					
	N/F-181	WHI	WEIGH	Wister	Wester
VVFT					191
	VI5191	Witter	WSIG	Wister	WEIGH
NVF1					79
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Page 12 of 25

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7. EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

	The state of the s	- /1/	I'vi vill sale villa v	STITE OF THE PARTY OF THE STITE		AND THE SECOND SHOW AND AND ADDRESS.
EDE	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	FREQUENCT (MINZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
	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:

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

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



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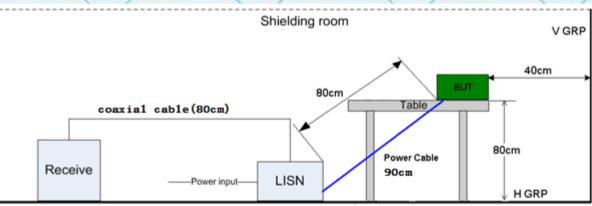
Certificate #5768.01

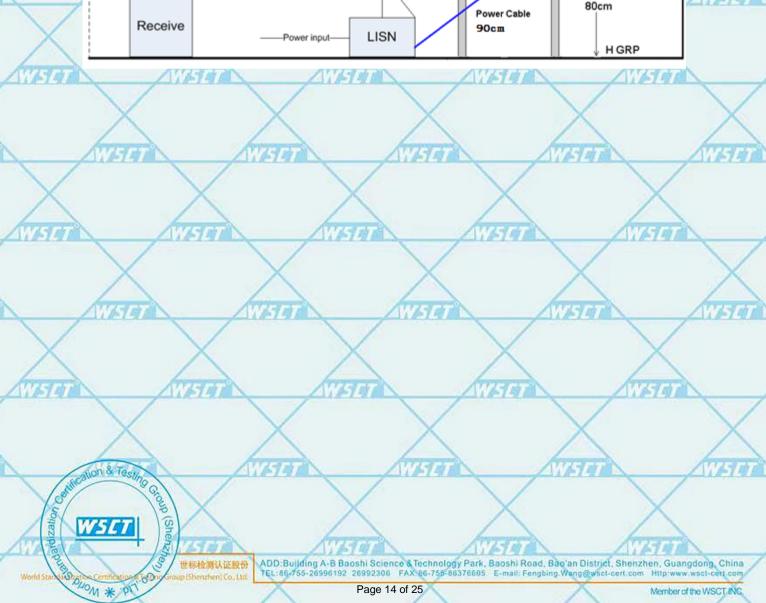
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TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains www.wsct-cert.com through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

TEST SETUP











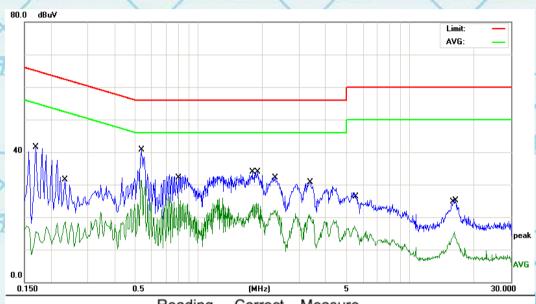
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7.2. Test Results

7	Temperature	20 ℃	Relative Humidity	48%
	Pressure	1010 hPa	Test Mode	Mode 1

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
,	1		0.1700	31.12	10.45	41.57	64.96	-23.39	QP
	2		0.2340	8.13	10.46	18.59	52.30	-33.71	AVG
Ī	3	*	0.5340	20.75	10.52	31.27	46.00	-14.73	AVG
Ī	4		0.5380	30.08	10.52	40.60	56.00	-15.40	QP
	5		0.8059	15.36	10.54	25.90	46.00	-20.10	AVG
>	6		1.7980	23.24	10.68	33.92	56.00	-22.08	QP
5	7		1.8780	13.67	10.69	24.36	46.00	-21.64	AVG
	8		2.3060	11.38	10.71	22.09	46.00	-23.91	AVG
	9		3.3700	19.98	10.72	30.70	56.00	-25.30	QP
	10		5.5420	15.52	10.75	26.27	60.00	-33.73	QP
	11		16.2020	4.29	11.16	15.45	50.00	-34.55	AVG
>	12		16.4180	13.91	11.16	25.07	60.00	-34.93	QP

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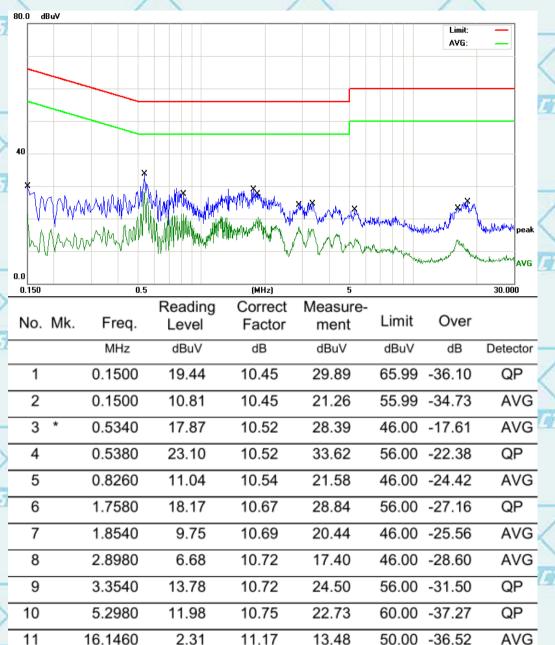






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For Question, Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) Please Contact with WSCT www.wsct-cert.com



Note1:

12

Freq. = Emission frequency in MHz

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

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Corr. Factor (dB) = LISN Factor + Cable loss

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

14.01

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

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

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

Page 16 of 25

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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
7	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490	2400/F(KHz)	300
	0.490~1.705	24000/F(KHz)	30
4	1.705~30.0	30	30
4	30~88	100	3
	88~216	150	3
	216~960	200	X 3 X
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

- (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

- 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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Page 18 of 25









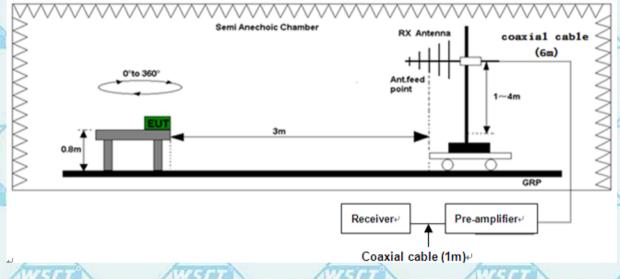
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Certificate #5768.01

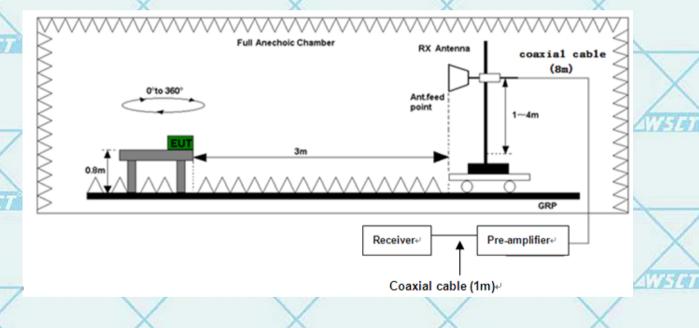
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TEST SETUP

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



(B) Radiated Emission Test-Up Frequency Above 1GHz



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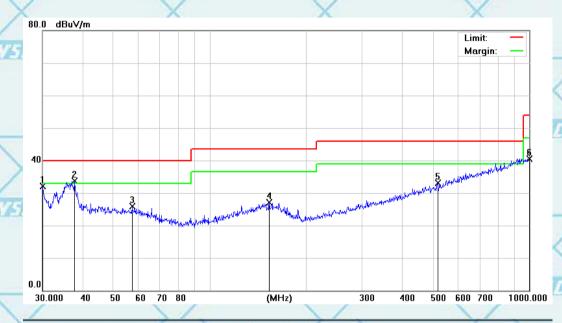
7.3.2. Test Results

1	Temperature	20 ℃	Relative Humidity	48%
	Pressure	1010 hPa	Test Mode	Mode 2(the worst case)

Please refer to following diagram for individual

Below 1GHz

Horizontal:



2	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE STATE OF
9			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	/	30.0000	33.75	-1.73	32.02	40.00	-7.98	QP
	2	X	37.8121	34.57	-0.82	33.75	40.00	-6.25	QP
	3		57.1914	27.41	-1.56	25.85	40.00	-14.15	QP
5	4		153.7385	26.80	0.33	27.13	43.50	-16.37	QP
	4 5	1	517.2480	27.56	5.48	33.04	46.00	-12.96	QP
5	6		1000.000	26.26	14.33	40.59	54.00	-13.41	QP

Warld Standard Standa

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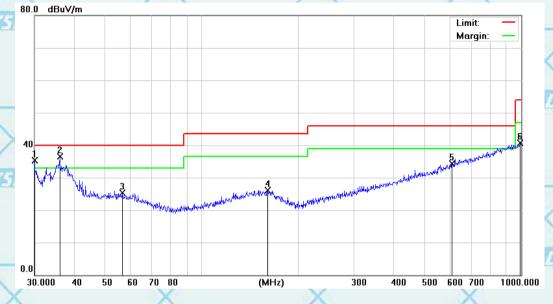


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Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	111
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	30.0000	37.00	-1.73	35.27	40.00	-4.73	QP
* 1	36.0007	37.66	-1.12	36.54	40.00	-3.46	QP
	56.3948	26.77	-1.52	25.25	40.00	-14.75	QP
	160.9089	25.98	0.13	26.11	43.50	-17.39	QP
7	607.7867	26.34	7.88	34.22	46.00	-11.78	QP
9	993.0114	26.20	14.45	40.65	54.00	-13.35	QP
		MHz ! 30.0000 * 36.0007	Mk. Freq. Level MHz dBuV ! 30.0000 37.00 * 36.0007 37.66 56.3948 26.77 160.9089 25.98 607.7867 26.34	Mk. Freq. Level Factor MHz dBuV dB ! 30.0000 37.00 -1.73 * 36.0007 37.66 -1.12 56.3948 26.77 -1.52 160.9089 25.98 0.13 607.7867 26.34 7.88	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m ! 30.0000 37.00 -1.73 35.27 * 36.0007 37.66 -1.12 36.54 56.3948 26.77 -1.52 25.25 160.9089 25.98 0.13 26.11 607.7867 26.34 7.88 34.22	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m ! 30.0000 37.00 -1.73 35.27 40.00 * 36.0007 37.66 -1.12 36.54 40.00 56.3948 26.77 -1.52 25.25 40.00 160.9089 25.98 0.13 26.11 43.50 607.7867 26.34 7.88 34.22 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB ! 30.0000 37.00 -1.73 35.27 40.00 -4.73 * 36.0007 37.66 -1.12 36.54 40.00 -3.46 56.3948 26.77 -1.52 25.25 40.00 -14.75 160.9089 25.98 0.13 26.11 43.50 -17.39 607.7867 26.34 7.88 34.22 46.00 -11.78

Note1:

Freq. = Emission frequency in MHz

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

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

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

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TEST RESULTS

Above 1GHz(1~26GHz) :(Mode 2—worst case)

	Freq.	Ant. Emission		Limit		Over(dB)		
3	(MHz)	Pol.	Level(dBuV)		3m(dBuV/m)		August	
-	/	H/V	PK	AV	PK	AV	PK	AV
	1712.61	V	57.87	39.13	74	54	-16.13	-14.87
	2983.65	V	60.36	39.66	74	54	-13.64	-14.34
	1702.73	Н	59.65	40.64	74	54	-14.35	-13.36
7	2986.62	\ \ \	58.38	42.38	74	54	-15.62	-11.62

Remark:

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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.

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WESTER	\times	NVET	$\langle \ \rangle$	
WEIGH	Wester	WATER OF	WEST	AVETO
WETER	\times	LT II AVLS	$\langle \ \ \rangle$	
scalion & Testino	WSIII	Wister	WSTAT	WSU

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8. Test Setup Photographs

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8.	Test Setup Photographs	WISTON	7/679	www.wsct-cert.com
W-51.01	WATER	W.S		
	WATER WATER	WETER	77-70	NISITI
Wister	WSI 41	W		
	W-51-0	WEST OF THE STATE	7/-74	WEIGH
NESTEE	WHE	N/S		
	WEIGT WEIGT	WEIGH	WESTER	V6183
NISHI	WSGT	N/A		79.0
	WETO WETO	WSIG	Waster	Wister
N/F/4/	NY ET BY			100
	XX	AV/57 03 T	Wister	VISIO
Saliton M	on & Testing Order			

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RADIATED EMISSION TEST ABOVE 1GHz

W5C7

S DUOM * PIT

157 NV575

AWSET

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3 世标检测认证数份

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Signal Comments

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