



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

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Report No.: WSCT-ANAB-R&E240700035A-15B

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		andardization Certification & Testing		WSET		SI National Accreditation Board C C C R E D I T E D ISONECT7025 TESTING LABORATORY
F	Report No.: WSCT-A	NAB-R&E240700035A-15B				Uncato Number - A1-5551
	Product:	True Wireless Earbuds				
\checkmark	Model No.:	OTW-625	WSET	W5		<u>WSCT</u>
\wedge	Additional Model:	oraimo		Δ		
WSET	Applicant:	ORAIMO TECHNOLO	GY LIMITED	WS CT	WSET	\checkmark
		FLAT N 16/F BLOCK MEI STREET FOTAN N		IDUSTRIAL CEN	IRE 19-25 SHA	
\checkmark	Manufacturer:	ORAIMO TECHNOLO FLAT N 16/F BLOCK MEI STREET FOTAN N	B UNIVERSAL IN	IDUSTRIAL CEN	TRE 19-25 SH	WSET
	Date of receipt:	30 July 2024				~
<u>WSET</u>	Date of Test:	31 July 2024 to 18 Aug	ust 2024	WSET	WSET	
	Applicable Standards:	FCC CFR Title 47 Part	15 Subpart B	/		$\boldsymbol{\wedge}$
		ent has been tested by Wo compliance with the require				
X	The results of test	ing in this report apply on	ly to the product s	ystem, which was	tested. Other si	imilar
WSET	equipment will not uncertainties.	necessarily produce the sa	ame results due to	production tolerar	ce and measure	ment
	X	X	X		\langle	X
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	Tested By: _	Jiang Guanliang	Checked		mit	Non & Tesus
WSET		(Jiang Guanliang)	CT°	(Qin	Shuiquan) When	
	X		X			VSCT
	Approved By: _	(Li Huaibi)	WSETD	ate: 06 Sopt	mon 2010	WWWSLT I
WIST		$\langle \rangle$	CT°	WSET	WSET	
			$\overline{\mathbf{V}}$			$\overline{\nabla}$
			\square			\square
	WSET	WS CT	WSET		ET Service	tions testing CT
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ADD : Building A-E	3,Baoli'an Industrial Park,No.58 and	60, Tangtou Avenue, Shiyan Street, Bao'an Dist	rict, Shenzhen City, Guangdong I	Province, China. 深圳世标检	が の dization Certification& Testing G	M # P1.02 Sroup(Shenzhen)Co.,Ltd
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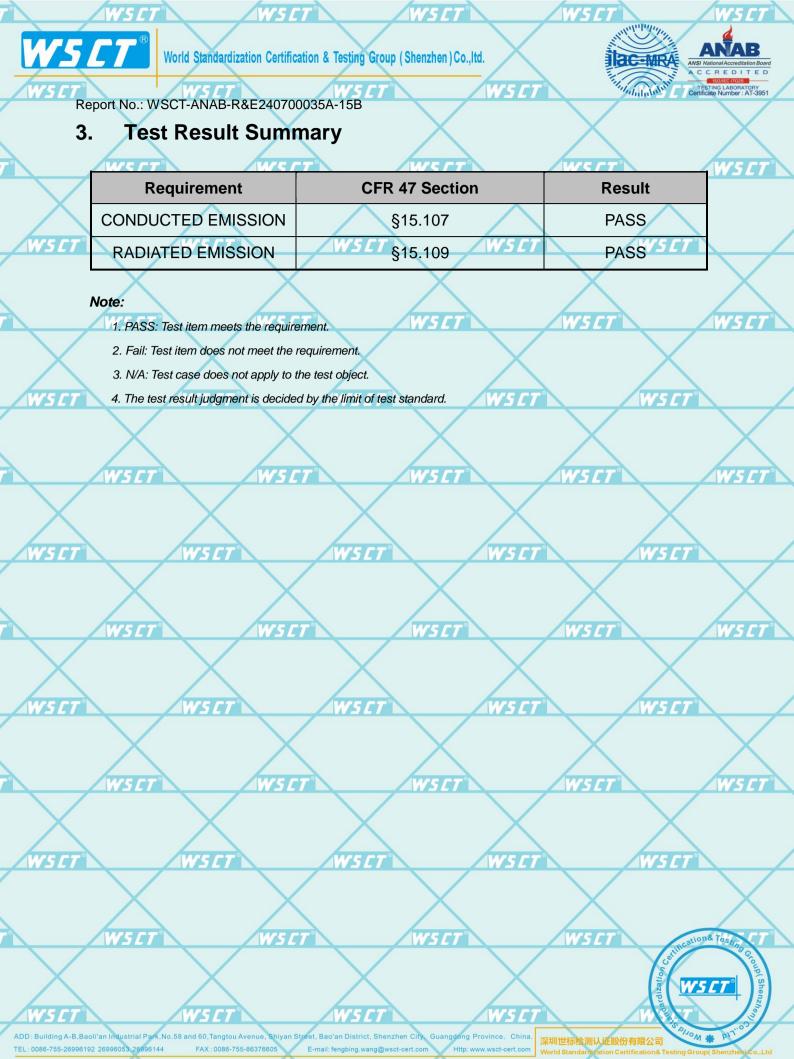


_W 5C1			WSCT	Testing Contracting	LABORATORY umber : AT-3951
	Report No.: WSCT-ANAB-I	DESCRIPTION OF EUT	· X		\times
	Product Name:	True Wireless Earbuds	T WSI	7	VSET
	Model:	OTW-625			
	Trade Mark:	oraimo	\sim		
WSET	Software version:	V0.1.9 WSCT	WS CT°	WS CT	/
	Hardware version:	V6.0	\sim		$\mathbf{\nabla}$
WSET	Operating Voltage:	Li-ion Polymer Battery: 1254 Voltage: 3.87V Rated Capacity: 75mAh Limited Charge Voltage: 4.45V Charging Box: 951445 Input: 5V500mA Capacity:570mAh/3.7V/2.109W	WEIT	T WSCT	VSET
	Remark:	N/A.	X		\times
	Note: 1. N/A stands for	no applicable.	T WSE		NS ET
<u>ws</u>	WS ET	WSET WSET	WSET WSE	WSET T	WSET
WSCT	$\langle X \rangle$		WSET	WSET	
	WSET	WSET WSET	WSE	7	WS ET
wsci	WSCT	WSET	WSET	WSET	
	WSET	WSET WSET	WSE	7° cations to	astro T°
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		I Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangd 155-86376605 E-mail: fengbing.wang@wsct-cert.com F	液利 巴尔西澳环	PHO	PAT
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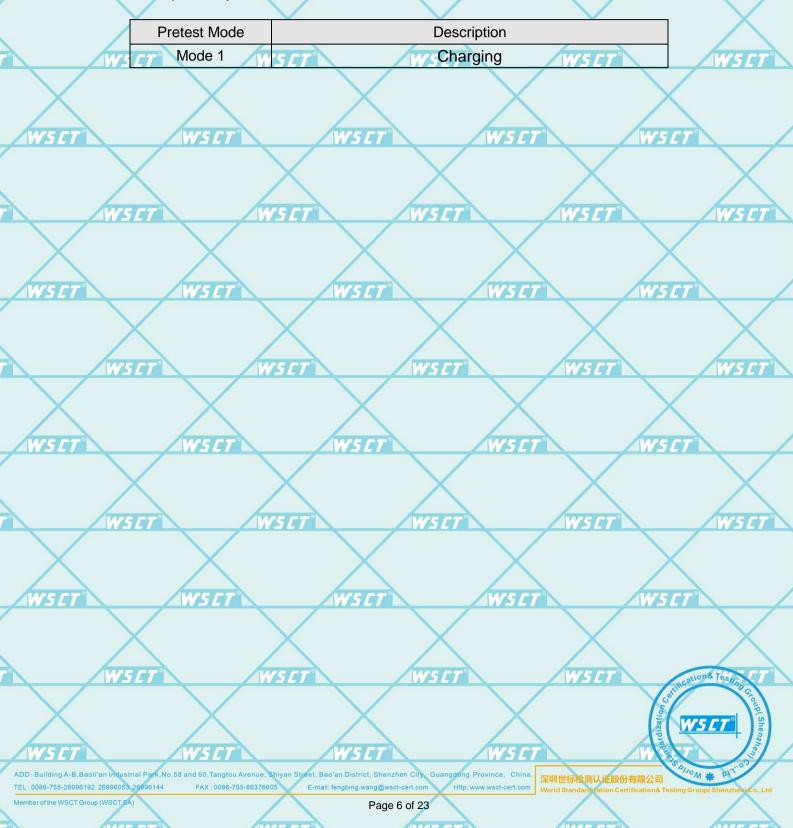


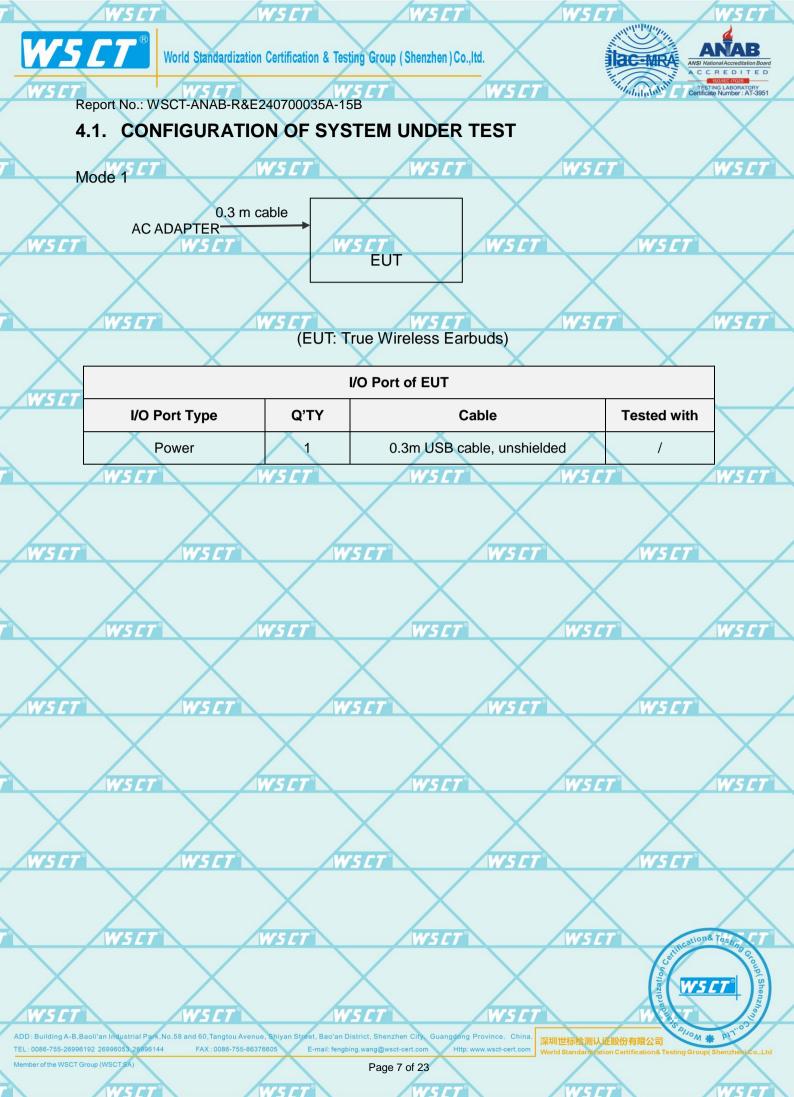
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4. TEST METHODOLOGY

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.

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4.2. DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

WSC7 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.

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W5 []	ltem	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	×1	U180IED	X	/

Note: <

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The support equipment was authorized by Declaration of Confirmation.

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(2) For detachable type I/O cable should be specified the length in cm in ^CLength₂ column.

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For multiple adapters, the report only displays the adapter with the worst data. (3)



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5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	5 <i>CT</i> °
	Test software		EZ-EMC	CON-03A		X	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
<u>/W5</u>	LISN W5	AFJ W	5 <i>CT</i> LS16	16010222119	11/05/2023	11/04/2024	_/
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	\checkmark
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
Δ	System Controller	WCT.7	SC100 <i>5 E1</i>	<u> </u>	11/05/2023	11/04/2024	5 <i>CT</i> °N
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
W 5	Horn Antenna W51	SCHWARZBECK	<i>5 [[</i> 79120D	W11417	11/05/2023	11/04/2024	/
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	\checkmark
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	\land
	9*6*6 Anechoic	WSCT°	-wsc1		11/05/2023	11/04/2024	5 <i>CT</i>

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6. Facilities and Accreditations

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6.1.Facilities

All measurement facilities used to collect the measurement data are located at World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China.

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The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

CNAS - Registration Number: L3732

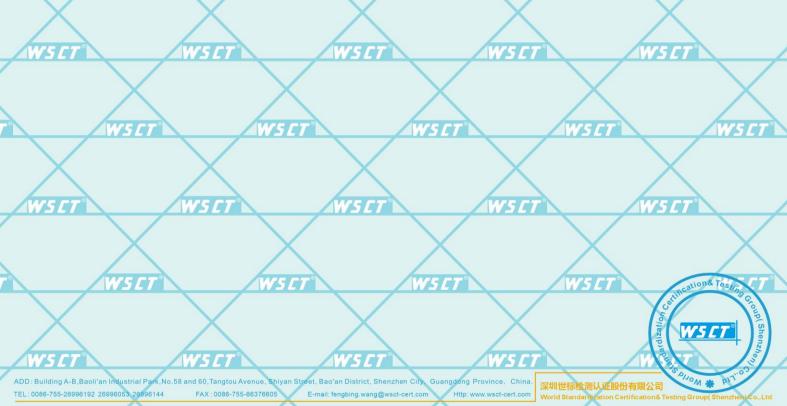
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

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.

ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951



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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 confidence of approximately 95 %.

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confidence of approximately 95 %.				
	No.	Item	MU	
WS CT°	1	Conducted Emission Test WSCT WSCT	±3.2dB	
	2	RF power, conducted	±0.16dB	X
	3 W 5 [Spurious emissions, conducted	±0.21dB	WSET
\sim	4	All emissions, radiated(<1GHz)	±4.7dB	
	5	All emissions, radiated(>1GHz)	±4.7dB	
WSET	6	Temperature WSLT WSLT	±0.5°C	\checkmark
	7	Humidity	±2.0%	X
	ws	T [°] WSCT [°] WSCT [°] WS	567	WSET
\searrow		\mathbf{X}	\sim	
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	X	(\times)	\langle	X
	ws c	T WSET WSET WS	5 CT	& Testing
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			dardization	CT (Shenzhen)
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TEL : 0086-755-269961 Member of the WSCT Gro	92 26996053 269	2本4月巴行时至63	测认此股份有限公司 rdization Certification& Testing Group(

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EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

٢.						
	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	FREQUENCT (MILZ)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
	0.50 -5.0	73.00	60.00	56.00	46.00	FCC
	5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

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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.

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The following table is the setting of the receiver

\wedge	Receiver Parameters	Setting	
WSE	Attenuation	wsc10 dB	
	Start Frequency	0.15 MHz	
	Stop Frequency	30 MHz	\mathbf{X}
	IF Bandwidth	9 kHz	$/ \setminus$
	WSCT [®] WSCT [®]	WSET WSET	WSCT [®]



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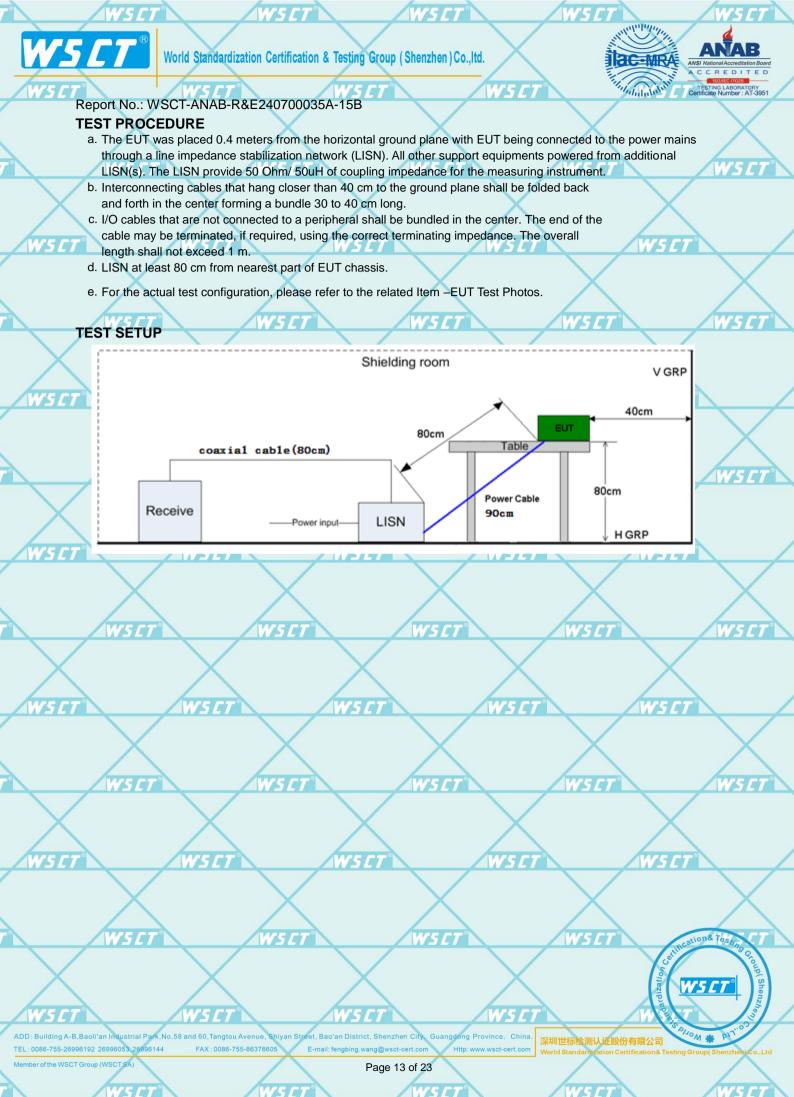


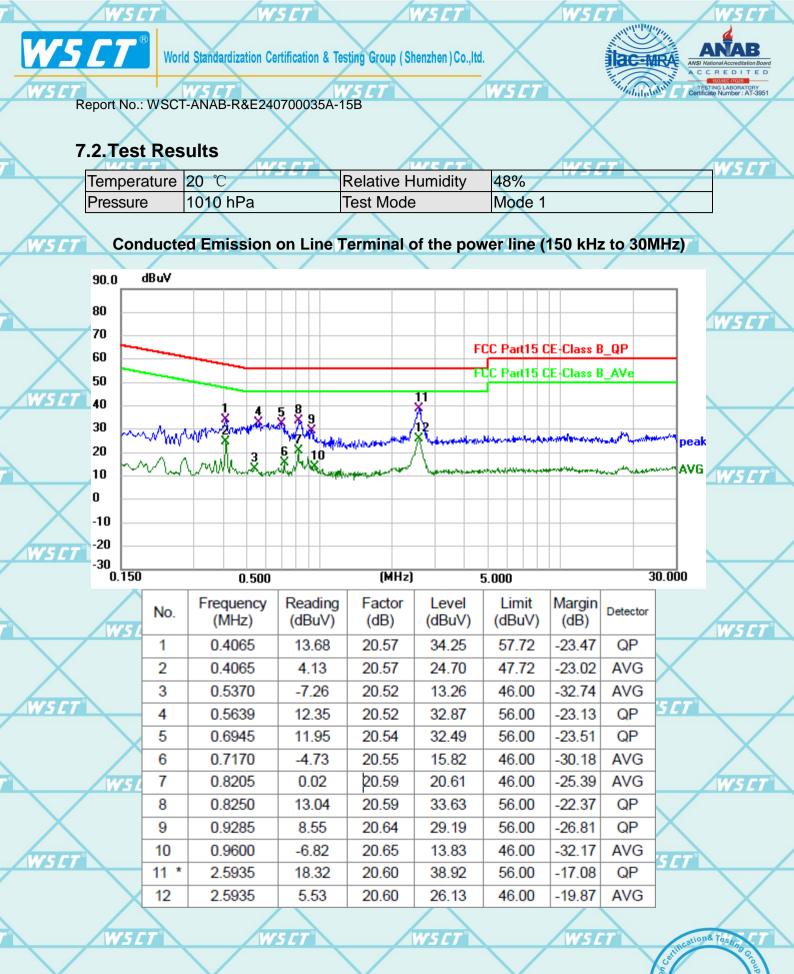
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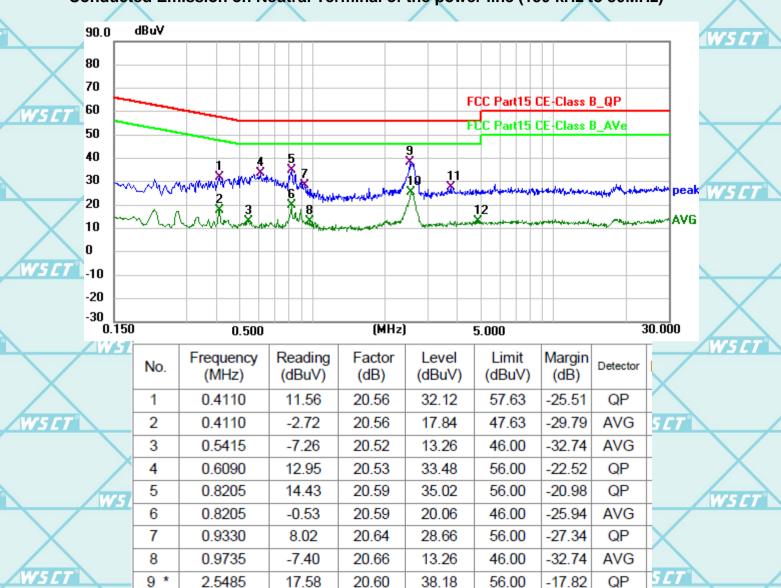


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13.12

46.00

56.00

46.00

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-20.50

-28.27

-32.88

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Note1:

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Freq. = Emission frequency in MHz

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

2.5710

3.7500

4.8570

- Corr. Factor (dB) = LISN Factor + Cable loss
- Measurement $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor (dB)$

4.90

7.14

-7.45

- 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.

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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
W5C7 meters shall not exceed the following values: W5C7 W5C7

	Frequencies	Field Strength	Measurement Distance
	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490 WSC	2400/F(KHz)	300 - 7
	0.490~1.705	24000/F(KHz)	30
	1.705~30.0	30	30
	30~88	100	3
	88~216	150	3
X	216~960	200	3
	Above 960	500	3

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBu\	//m) (at 3M)	\boldsymbol{V}
	PEAK	AVERAGE	
Above 1000	W5C74	WSET 54 WS	(7°)
Mataa			

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.

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

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	SCT W51000 MHz WSCT	
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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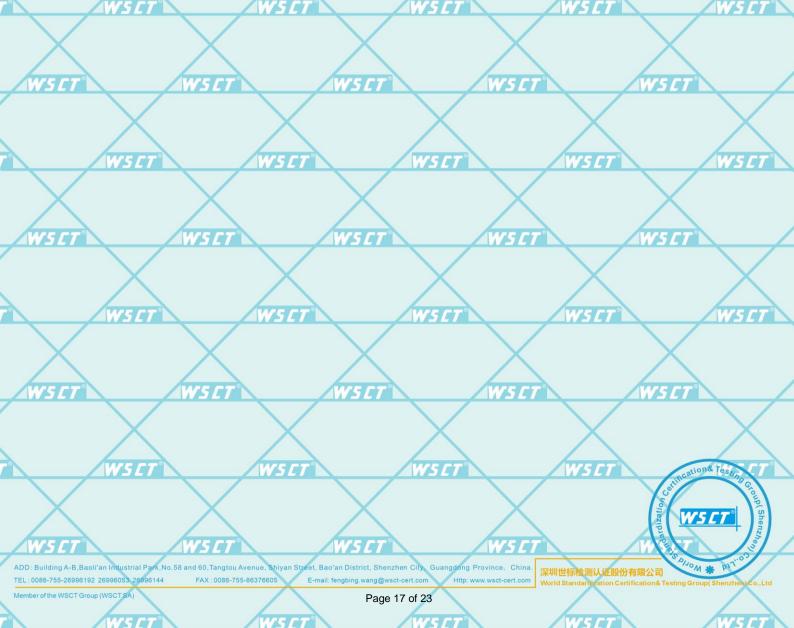
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

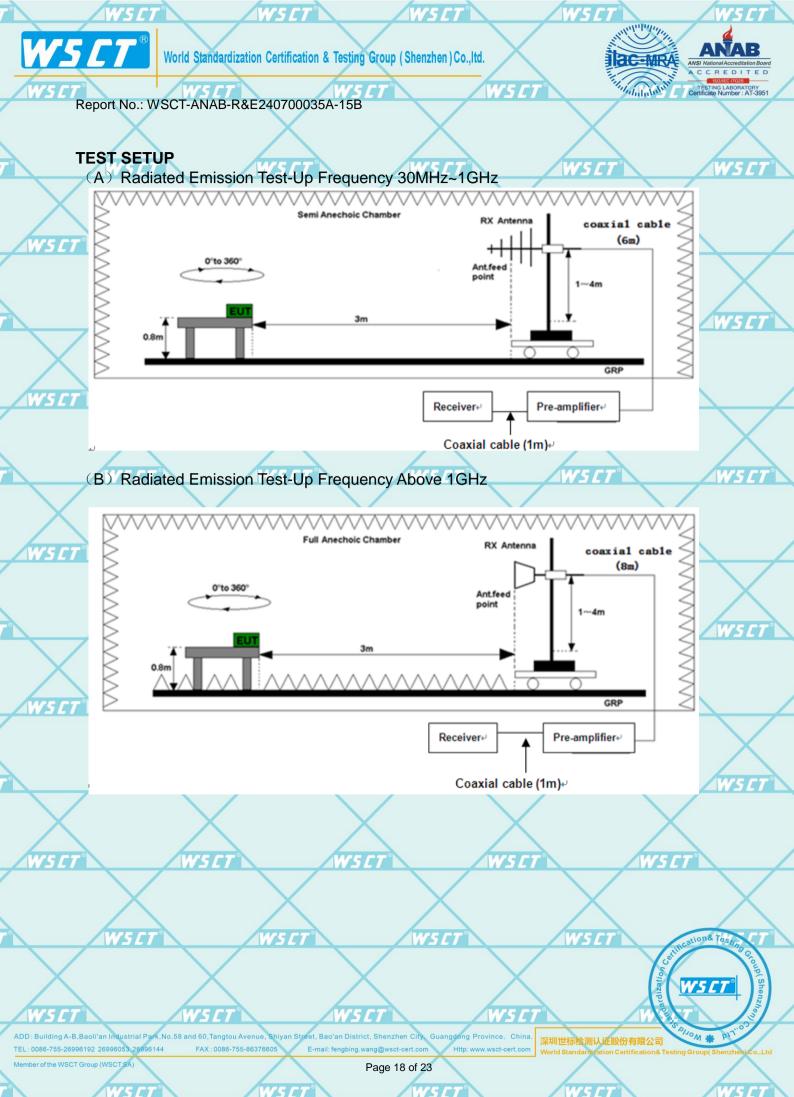
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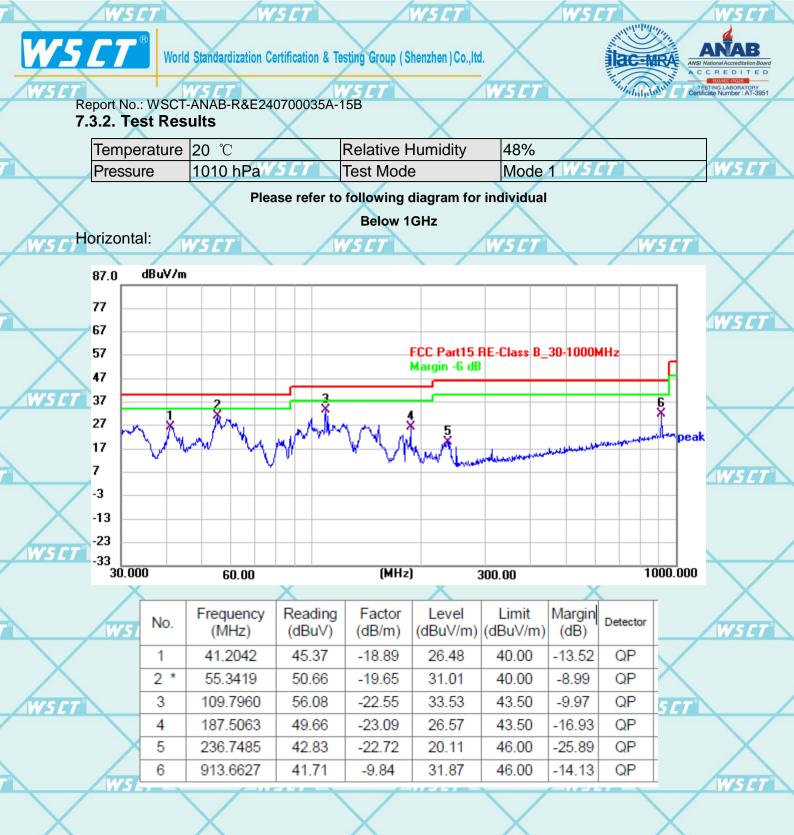
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- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial 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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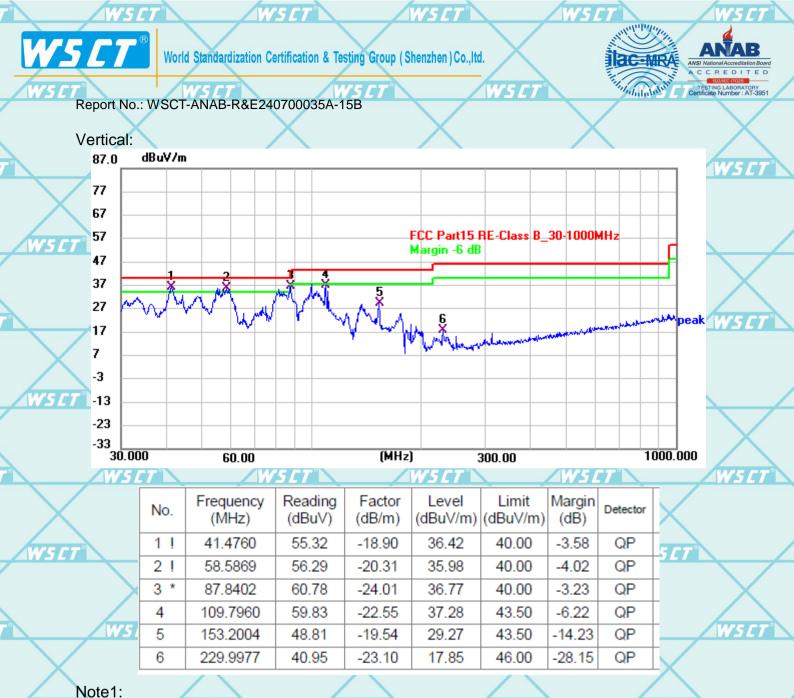
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Freq. = Emission frequency in MHz WSC7 Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

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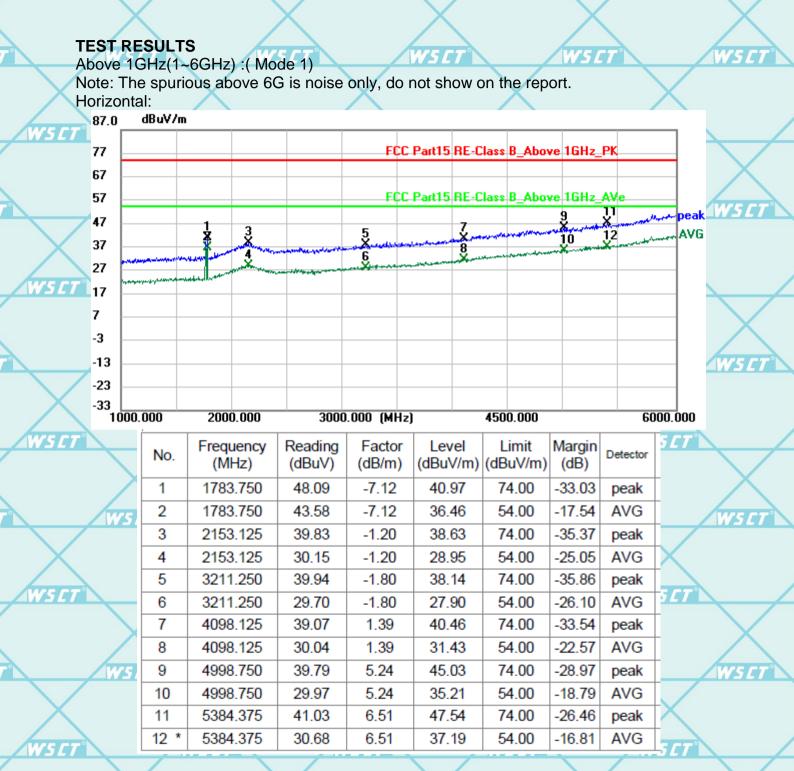


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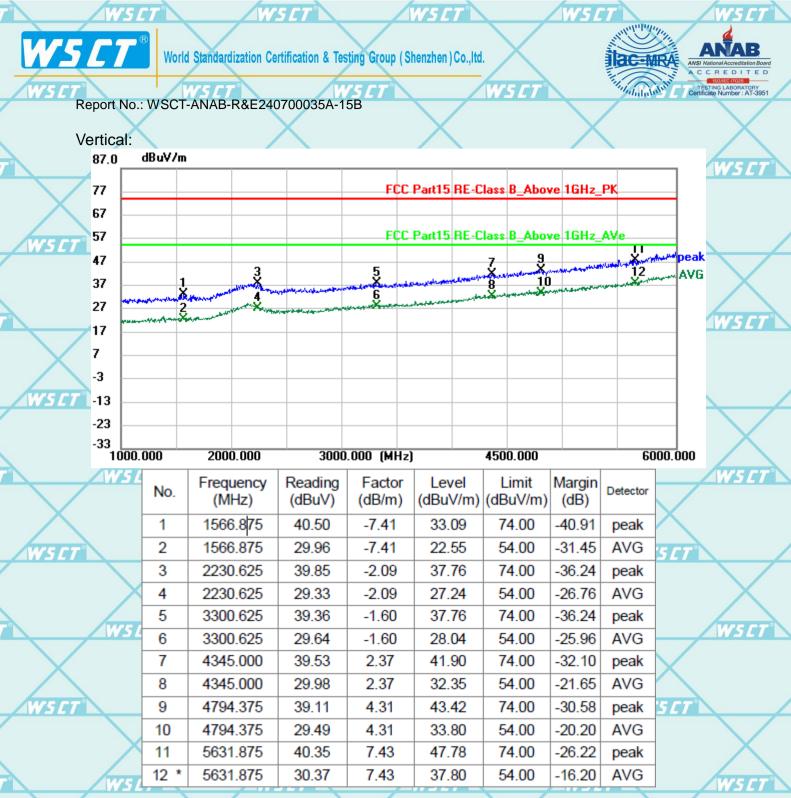
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Remark:

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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.

(S C

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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15 E



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