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TEST REPORT

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FCC ID: 2AXYP-OSW-852H **Product: Smart Watch** Model No.: OSW-852H W5C1 WSC **Trade Mark: oraimo** Report No.: WSCT-ANAB-R&E241000049A-15B Issued Date: 26 October 2024

Issued for:

ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 WS CT SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

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

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FAX: +86-755-86376605

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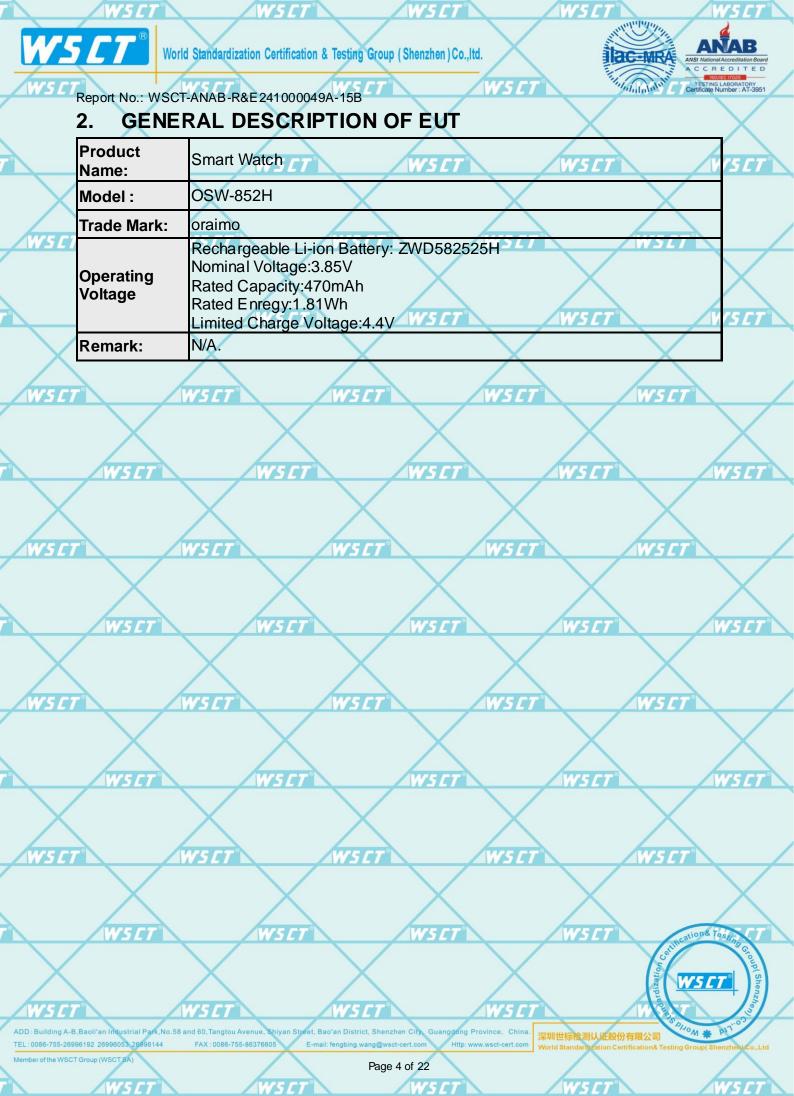
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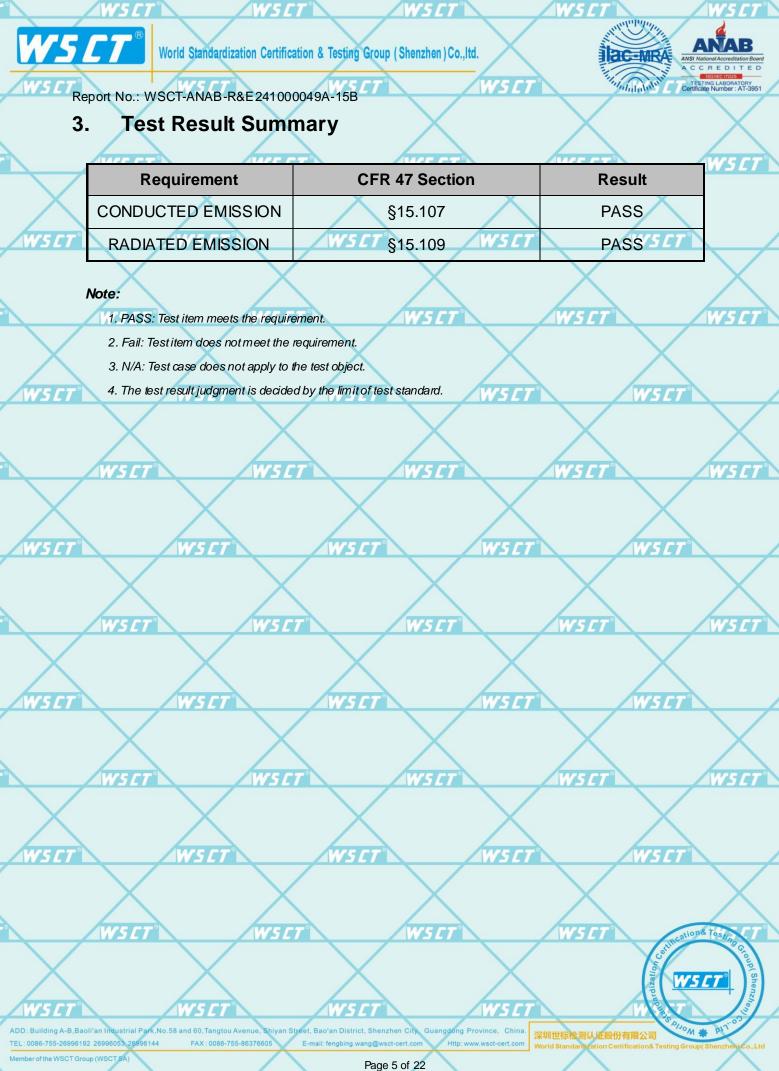
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ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wscl-cert.com Http://www.wscl-cert.com World Standardization Certification& Testing Group(Shenzhen) C	io.,Ltd





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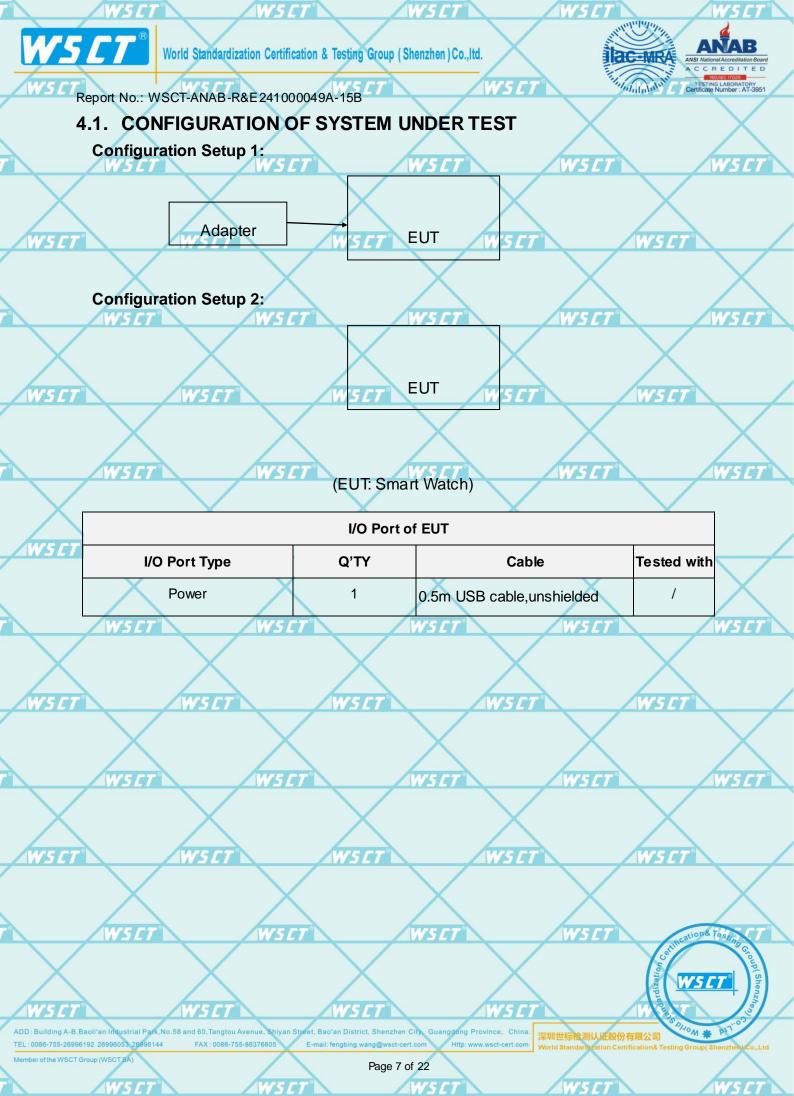
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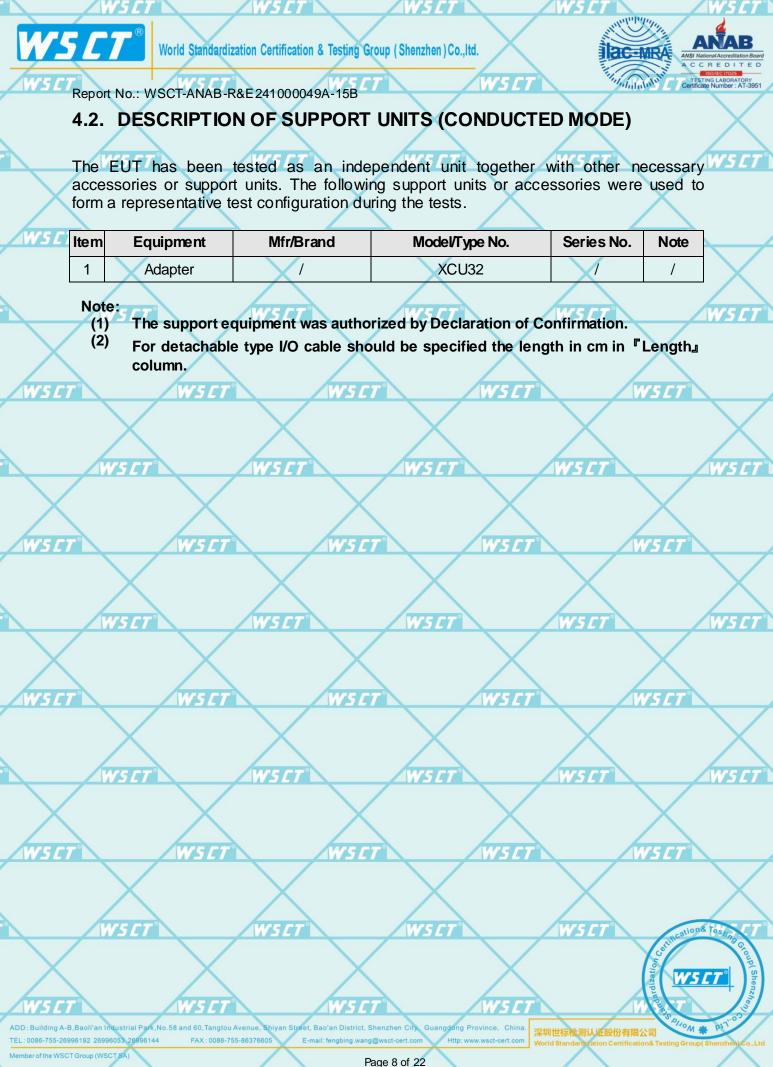
4. TEST METHODOLOGY

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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	Pretest Mode		Description		\wedge
ws		SET	Charging	WISET	WSCT
	Mode 2		Bluetooth		
			X	/	
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Member of the WSCT Group (WSCT S/	Å	05 E-mail: fengbing.wang@wsct- Page 6	<u> </u>	World Standardization Certification& Te	sting Group(Shenzhen) Co.,Ltd
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5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
	Test software	-	EZ-EMC	CON-03A	-	V	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
W5 [T LISN W51	7 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	
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
	System Controller	WCTT	SC1005 [7	<u> </u>	11/05/2023	11/04/2024	ET
	Bi-log Antenna	Chas e	CBL6111C	2576	11/05/2023	11/04/2024	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
ws.	Horn Antenna W5	SCHWARZBECK	5 <i>CT</i> 9120D	w1141 7	11/05/2023	11/04/2024	/
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
	9*6*6 Anechoic	WSET	WSET	<u> </u>	11/05/2023	11/04/2024	FET

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Facilities and Accreditations

6.1.Facilities

All measurement facilities used to collect the measurement data are located at **World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.**

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WSE

Bao'an District, Shenzhen City, Guangdong Province, China

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

6.2. ACCREDITATIONS

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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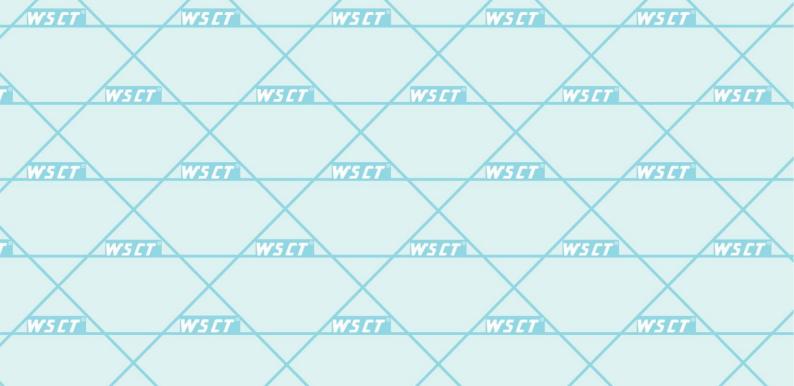
6.3. Measurement Uncertainty

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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WSET	No.	Item	MU	
	1	Conducted Emission Test	±3.2dB	$\mathbf{\mathbf{\nabla}}$
	2	RF power, conducted	±0.16dB	
$\overline{}$	3	Spurious emissions, conducted	±0.21dB	W5 <i>CT</i> °
\mathbf{X}	4	All emissions, radiated(<1GHz)	±4.7dB	
WSET	5	All emissions, radiated(>1GHz)7 W5C7	±4.7dB/5_7	
	6	Temperature	±0.5°C	\mathbf{X}
	7	Humidity	±2.0%	WSFT



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EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

1 Y		S				
LI	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
		Quasi-peak	Average	Quasi-peak	Average	Standard
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
	W 5 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	
/5 /7	Attenuation	10 dB	
<u>el</u>	Start Frequency	0.15 MHz	
	Stop Frequency	30 MHz	\mathbf{X}
	IF Bandwidth	9 kHz	
	WELT	WSCT WSCT	WE

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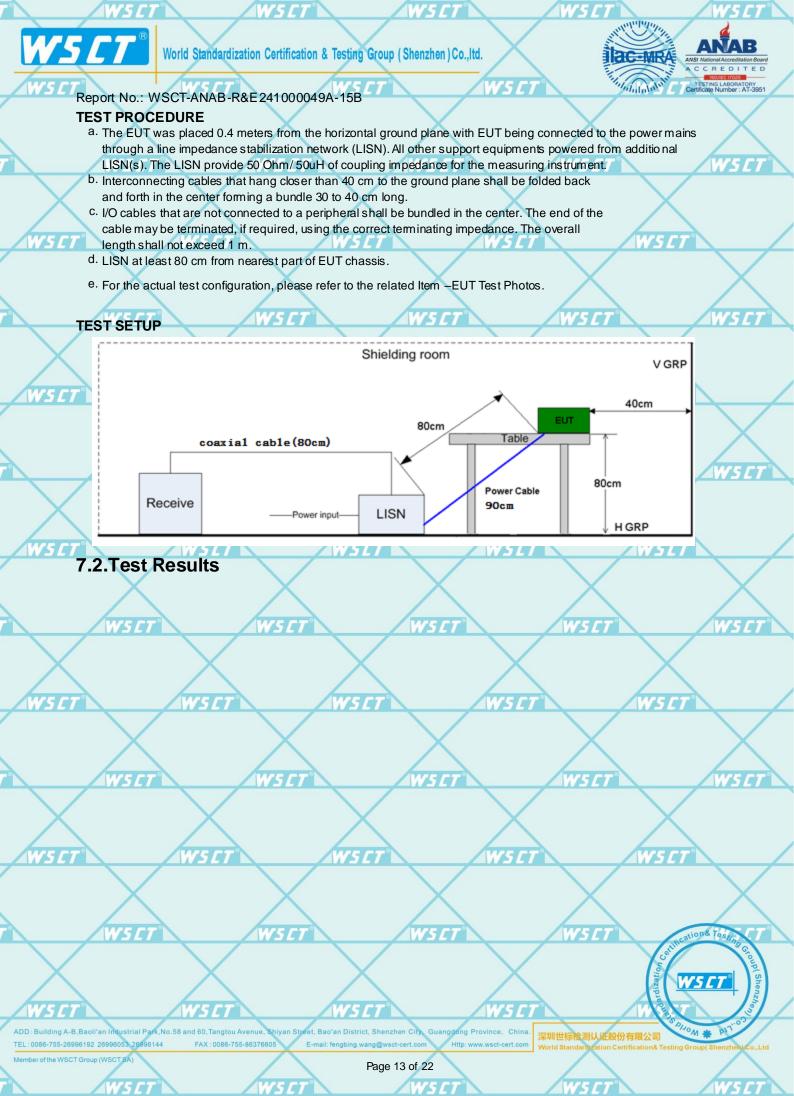
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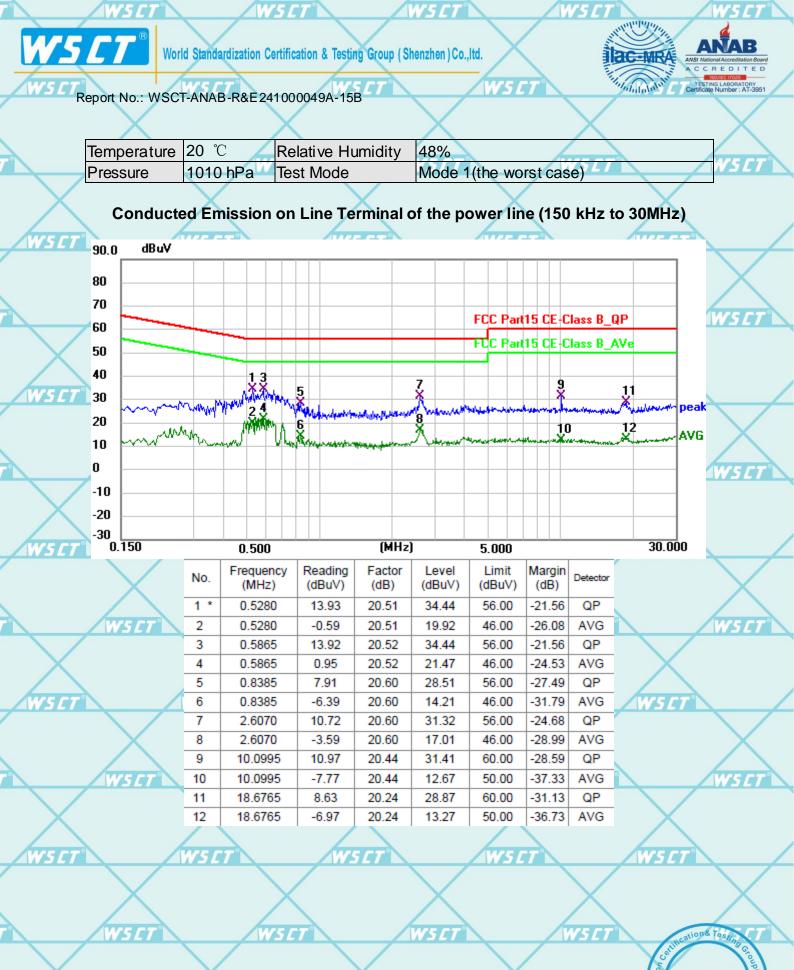
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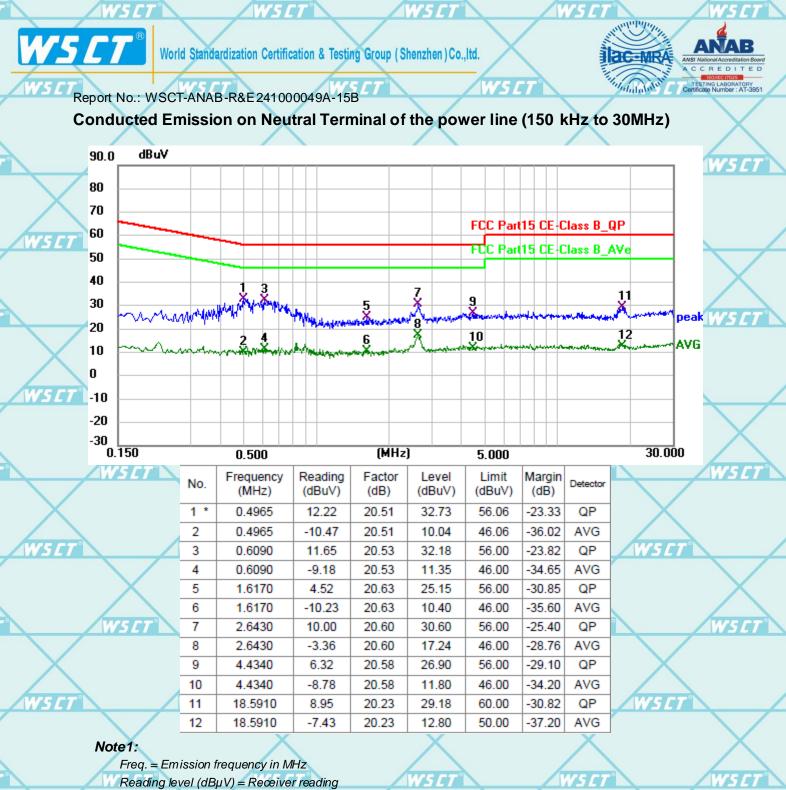
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Corr. Factor (dB) = LISN factor + Cable loss

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

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

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

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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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: WSCT

	Frequencies	Field Strength	Measurement Distance
	(MHz)	(micorvolts/meter)	(meters)
F	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	<u>3 W52</u>
	Above 960	500	3

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBu∨	//m) (at 3M)
	PEAK	AVERAGE
Above 1000	WSET74	W5CT 54 W5L

Notes:

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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.

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W5 (3) Emission level (dBuV/m)=20log Emission level (uV/m). W5 LT

\sim			
X	Spectrum Parameter	Setting	
$\langle \rangle$	Attenuation	Auto	
WSCT	Start Frequency	WS1000 MHz WSCT	
	Stop Frequency	10th carrier harmonic	
	RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average	\mathbf{X}
	band)	T WITZ / T WITZ TOT T Eak, T WITZ / TTZ TOT Average	
	WEET		15 C'
\checkmark	Receiver Parameter	Setting	75 E I
\sim	Attenuation	Auto	
X	Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP	

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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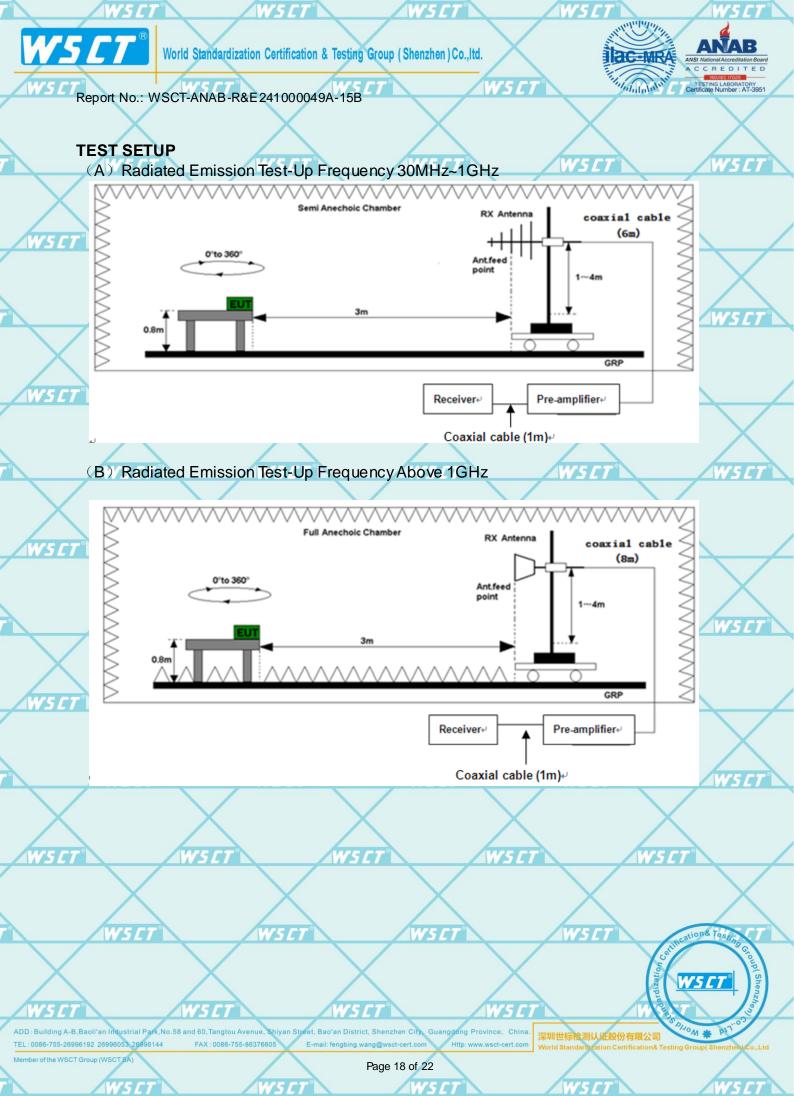
TEST PROCEDURE

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.

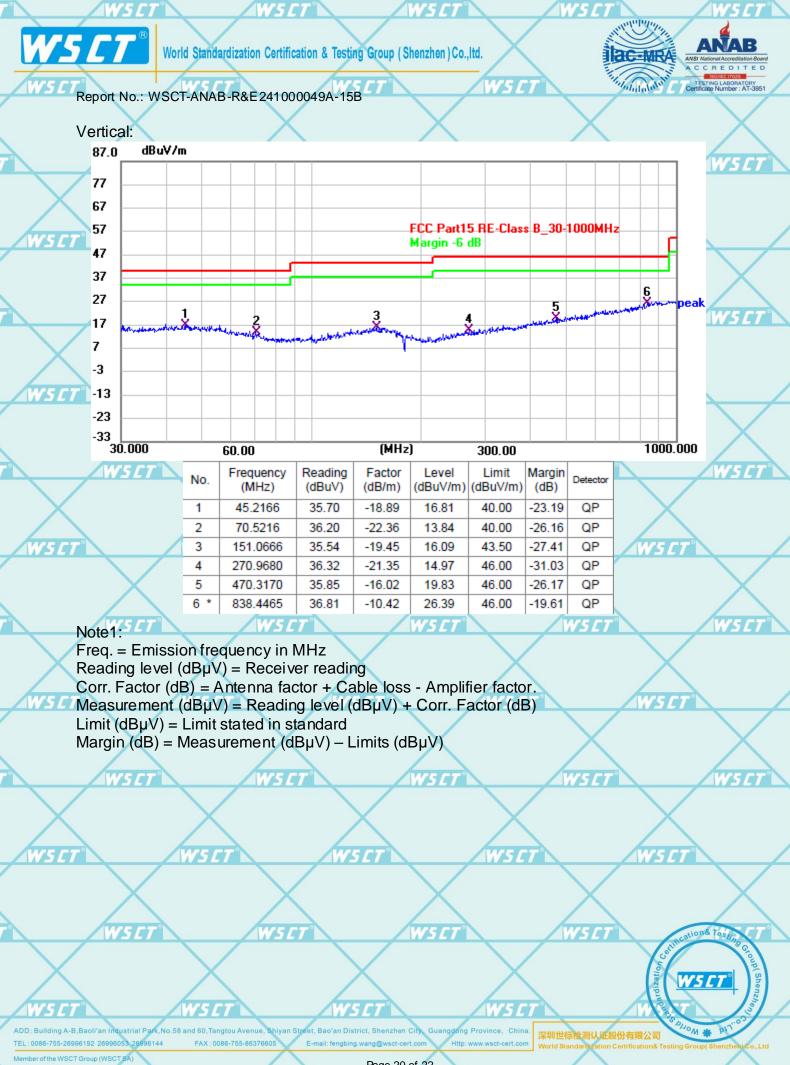
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- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution 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.





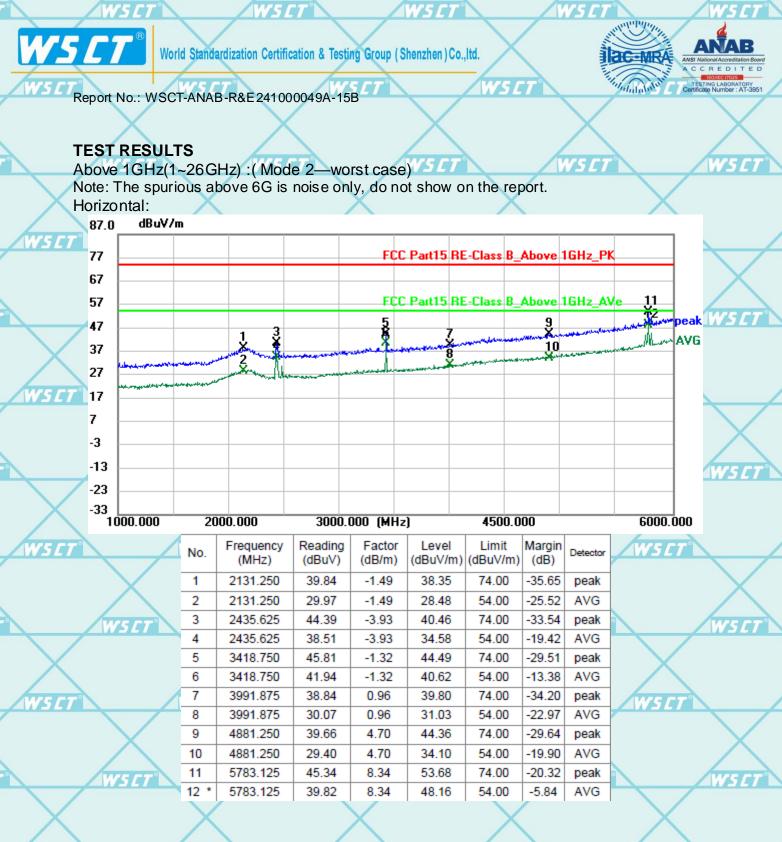




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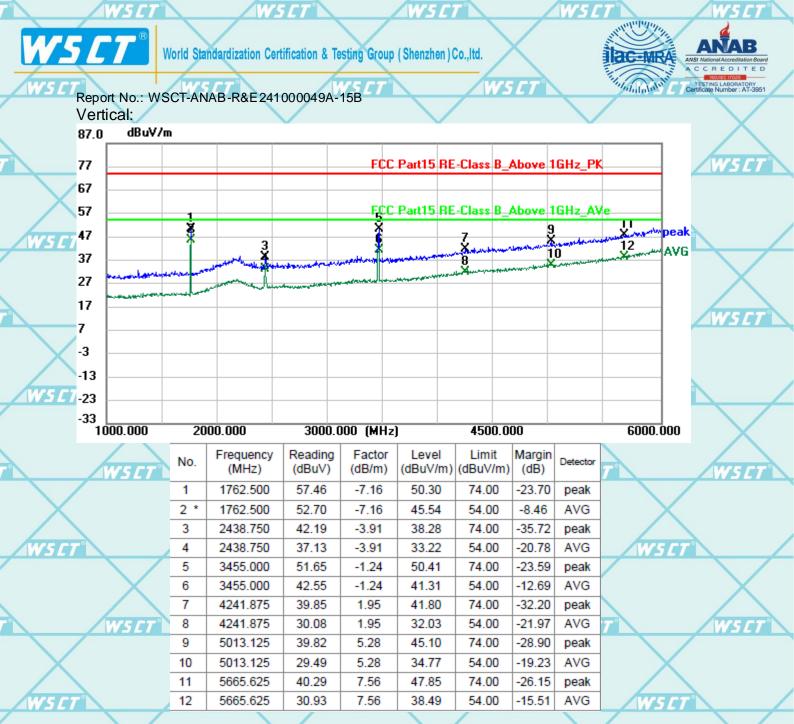
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Remark:

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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./5 [7

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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*****

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