



TEST REPORT

FCC ID: 2AXYP-OSW-806N

Product: Smart Watch

Model No.: OSW-806N Trade Mark: oraimo

Report No.: WSCT-ANAB-R&E240900046A-15B

Issued Date: 30 September 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:

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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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深圳世标检测认证股份有限公司

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Report No.: WSCT-ANAB-R&E240900046A-15B

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Report No.: WSCT-ANAB-R&E240900046A-15B

1. Test Certification

Product: Smart Watch

Model No.: OSW-806N

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: 10 September 2024

Date of Test: 11 September 2024 ~ 29 September 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.

W5 CT" W5 CT"

Jiang Guanliang

(Jiang Guanliang)

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Checked By:

(Qin Shuiquan)

Approved By:

Tested By:

(Li Huaibi)

Date: 30 September 20

August August

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W5 CT

2. GENERAL DESCRIPTION OF EUT

	Product Name:	Smart Watch WSCT WSCT	(SET
1	Model :	OSW-806N	
	Trade Mark:	oraimo	
<i>C 7</i>	Software version:	V1.13	\checkmark
	Hardware version:	Z1650V2.0	15 CT
_	Operating Voltage	Rechargeable Li-ion Polymer Battery: 502426 Rated Voltage: 3.7V Typical Capacity: 300mAh/1.11Wh	
C 7	Remark:	N/A.7 WSET WSET WSET	

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

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2. Antenna gain provided by the applicant

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		W5ET*	/	S. C.

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Test Result Summary 3.

Requirement **CFR 47 Section** Result CONDUCTED EMISSION §15.107 **PASS** RADIATED EMISSION §15.109 PASS WSET W5 CI

NSC

WS CT

- 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.

WSCT	W5 ET	W5ET°	W5 ET°	WSET
		$\langle \ \ \rangle$	ET WS	
X	X	X	X	X

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/					S. S	Scroup



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TEST METHODOLOGY 4.

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.

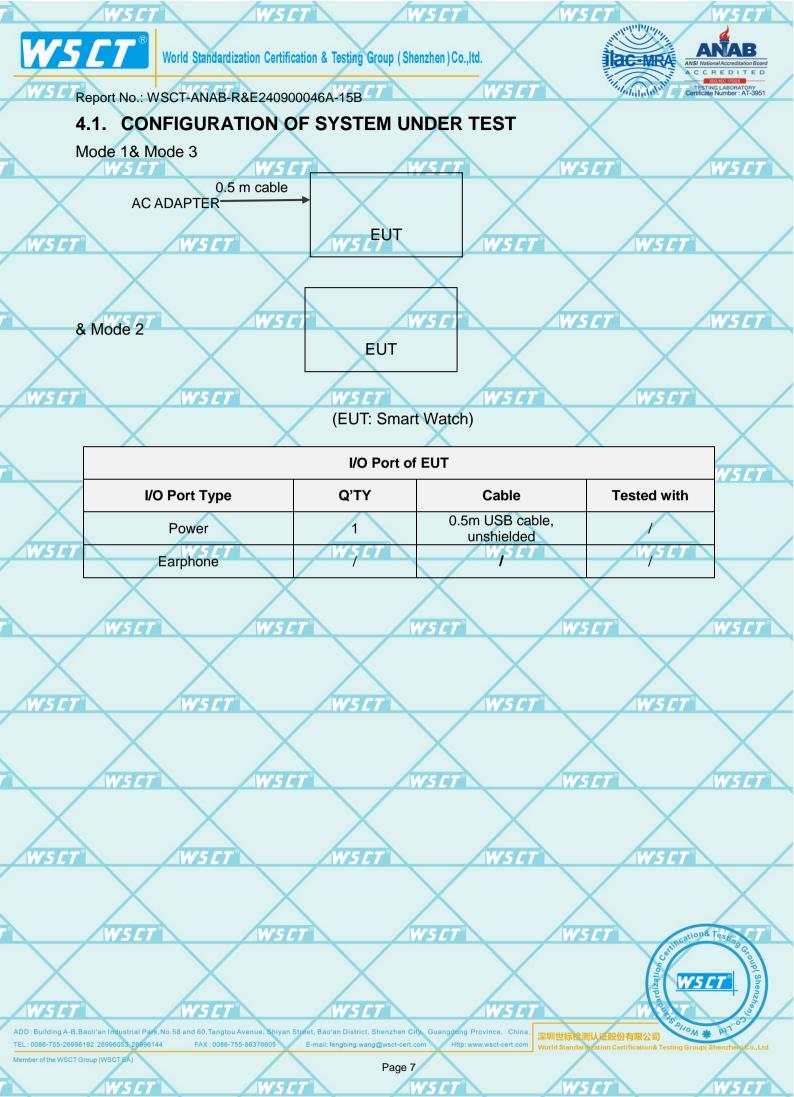
	Pretest Mode	Description	
75	Mode 1	Charging	WS
_	Mode 2	Bluetooth	
	Mode 3	Bluetooth + charging	
	Mater Divide atlantage	and a compatible to the control of t	

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

W5 CT	W5 CT	W5 ET	W5 CT	W5 CT	
WSI	W5	LT WS	ET W	SET°	WSLT
WSET	WSCT	WSET	WSCT	W5 ET	
WSI	$\langle \hspace{0.1cm} \rangle$			SCT	WSET
WSET	WSCT	WSET	WSET	WSCT	
WSI				SCT	WSET
WSET	WSCT	WSET	WSET	WSET	
W5 I	$\langle \hspace{0.1cm} \rangle$			X	8 Test- (7°
WSET	WSET	WSET	WSCT	W.5	& Testing Group (Shenzher)
	I Park,No.58 and 60,Tangtou Avenue, Shiya	n Street, Bao'an District, Shenzhen City, Go	uangdong Province, China. 深圳世标	检测认证股份有限公司	PIT-07

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DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary W5 [1] accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

							į.
E	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	1
	1	Keyboard	//	//	1	/	
	2	Mouse	/			/	1

Note:

- The support equipment was authorized by Declaration of Confirmation. (1)
- (2) For detachable type I/O cable should be specified the length in cm in **Length** column./5/7 NS CT

WSI	T° W5	T W	SET O	WS ET	WSET
WSCT	W5 ET	WSET	WSET	WSET	
WSI	$\langle \hspace{0.1cm} \rangle$			WSCT	WSET
WSCT	W5 CT	WSET	WSET	WSET	
WSL	$\langle \ \rangle$		\times	WS ET	WSET
WSET	WSET	WSET	WSET	WSCT	
WSI	$\langle \hspace{0.2cm} \rangle$			\times	X
X	X	X	X	dization Co.	SET

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MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
	Test software	/	EZ-EMC	CON-03A		/	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
W5 L	LISN W50	AFJ W	5 _ T 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	SC100 5	- /	11/05/2023	11/04/2024	ET
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
W5L	Horn Antenna	SCHWARZBECK	5 9120D	1141	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
	Pre Amplifier	н.р.	HP8447E	2945A02715	11/05/2023	11/04/2024	X
	9*6*6 Anechoic	W5CT	WSCI	/	11/05/2023	11/04/2024	5ET

WE CT.	WSET	WSET	WSCT	WS	C.T.*
WS ET	$\langle \hspace{0.1cm} \rangle$		VSET	WSCT	WSCT
WSET	W5 ET	WSET	WSET	WS	
W.5	$\langle \hspace{0.1cm} \rangle$		VSET	WSCT	WSET
WSCT	WSET	W5 CT	WSET	WS	
W5	$\langle \hspace{0.1cm} \rangle$		VS ET	\times	\times
X	X	X	X	is ation C	WSCT Short

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Facilities and Accreditations 6.

6.1. Facilities

All measurement facilities used to collect the measurement data are located at

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Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an

District, Shenzhen, Guangdong, China.

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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Report No.: WSCT-ANAB-R&E240900046A-15B 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 %.

	COTITION	nee of approximately 60 70.	
X	No.	Item	MU
W5 CT	7	Conducted Emission Test W 5 [7] W 5 [7]	±3.2dB/5_7
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
$\overline{}$	4	All emissions, radiated(<1GHz)	±4.7dB
\mathcal{X}	5	All emissions, radiated(>1GHz)	±4.7dB
W5ET°	6	Temperature W5CT W5CT	±0.5°CV5 <i>ET</i>
	7	Humidity	±2.0%

	7	Humidity	\times	\times		±2.0%	
	WSE	7°	WSCT	WSET		WS CT	WSET
\times		\times			X		
W5 CT		WSET	W5	ET	WSET	W5	7
	WSE		WSET	WSCT		W5 ET	W5 CT°
WSET		WSET	W.5		WSET	WS	
	WSE		WSET	WSET		WSET	WSET
WSET		WSET	W.5		WSET	WS	
	W5 E		WSET	WSCT		\times	X
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EMC EMISSION TEST 7.

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

7	•	7			
1.		.			7
1 4	/	200	- 107		
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				And the second second second second			
FREQUENCY (MHz)		Class A	(dBuV)	Class B	(dBuV)	Standard	
L	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru	
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC	
	W 5 0.50 -5.0	73.00	60.00	556.00	46.00	FCC	W5
/	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.

WS CT

The following table is the setting of the receiver

7	The rene wing table is the country of the rece	
	Receiver Parameters	Setting
	Attenuation	10 dB
	Start Frequency	0.15 MHz
	Stop Frequency	30 MHz
	IF Bandwidth	9 kHz

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W5 CI

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W5C



WSC

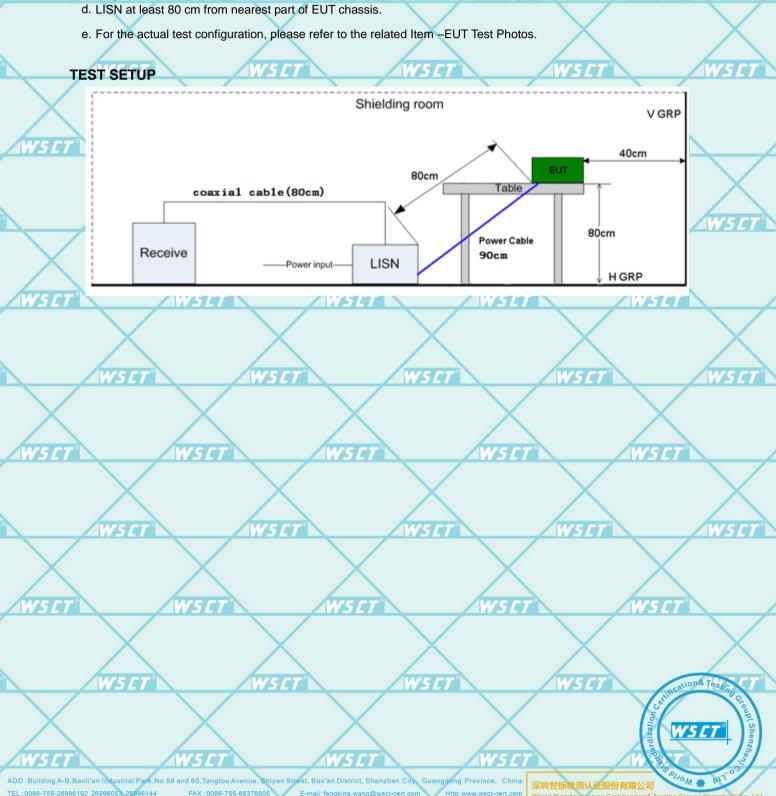


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TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains 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.





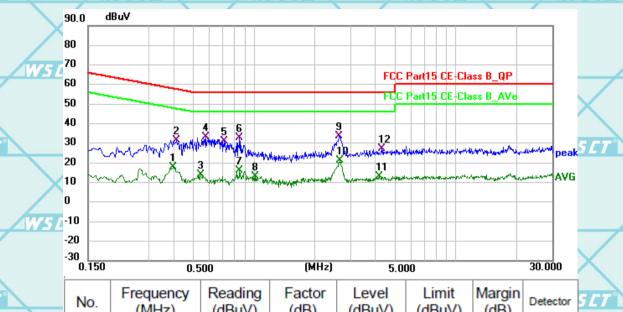
Report No.: WSCT-ANAB-R&E240900046A-15B



7.2. Test Results

_	Temperature	20 °C ₩557	Relative Humidity	48%	W5CT°
	Pressure	1010 hPa	Test Mode	Mode 3	

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



WS CT"	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	5 /
\times	1	0.3975	-2.99	20.57	17.58	47.91	-30.33	AVG	
	2	0.4110	11.08	20.56	31.64	57.63	-25.99	QP	
W51	3	0.5413	-6.79	20.52	13.73	46.00	-32.27	AVG	
	4	0.5730	12.50	20.52	33.02	56.00	-22.98	QP	
	5	0.7125	10.72	20.55	31.27	56.00	-24.73	QP	
NSCT [®]	6	0.8475	12.05	20.60	32.65	56.00	-23.35	QP	5
	7	0.8475	-4.60	20.60	16.00	46.00	-30.00	AVG	
X	8	1.0140	-7.62	20.67	13.05	46.00	-32.95	AVG	
Tura.	9 *	2.6474	13.01	20.60	33.61	56.00	-22.39	QP	
W51	10	2.6655	0.75	20.60	21.35	46.00	-24.65	AVG	
\times	11	4.1684	-7.59	20.58	12.99	46.00	-33.01	AVG	>
	12	4.2720	6.64	20.58	27.22	56.00	-28.78	QP	
MELT"		VECT		CTT		(WEFT)			E

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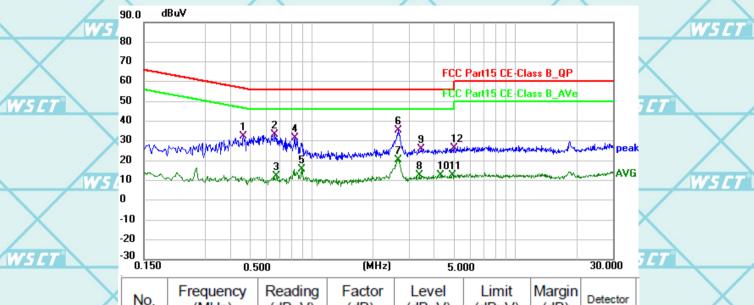
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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



×	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
7	1	0.4605	11.98	20.53	32.51	56.68	-24.17	QP	
	2	0.6540	12.82	20.53	33.35	56.00	-22.65	QP	
	3	0.6720	-8.48	20.54	12.06	46.00	-33.94	AVG	X
	4	0.8340	11.05	20.60	31.65	56.00	-24.35	QP	5 C I
	5	0.8925	-5.13	20.62	15.49	46.00	-30.51	AVG	
×	6 *	2.6565	14.61	20.60	35.21	56.00	-20.79	QP	
	7	2.6565	-0.17	20.60	20.43	46.00	-25.57	AVG	
Z	8	3.3765	-7.97	20.59	12.62	46.00	-33.38	AVG	
	9	3.4485	5.43	20.59	26.02	56.00	-29.98	QP	
	10	4.3080	-8.01	20.58	12.57	46.00	-33.43	AVG	
	11	4.9110	-7.89	20.57	12.68	46.00	-33.32	AVG	E
	12	4.9785	5.84	20.57	26.41	56.00	-29.59	QP	

Note1:

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 (dBµV) = 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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Report No.: WSCT-ANAB-R&E240900046A-15B

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:

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	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	1.705~30.0	30	30
ľ	15 [7] 30~88 W 5[100 100	W3 L1
	88~216	150	3
	216~960	200	X 3 X
	Above 960	500	3

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	FREQUENCY (MHz)	Limit (dBu\	//m) (at 3M)
2	FREQUENCY (MIDZ)	PEAK	AVERAGE
I	Above 1000	74	54

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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)	5 7 1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

	Receiver Parameter	Setting	X
	Attenuation	Auto	
_	W5/Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP	SET
	Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP	
	Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP	

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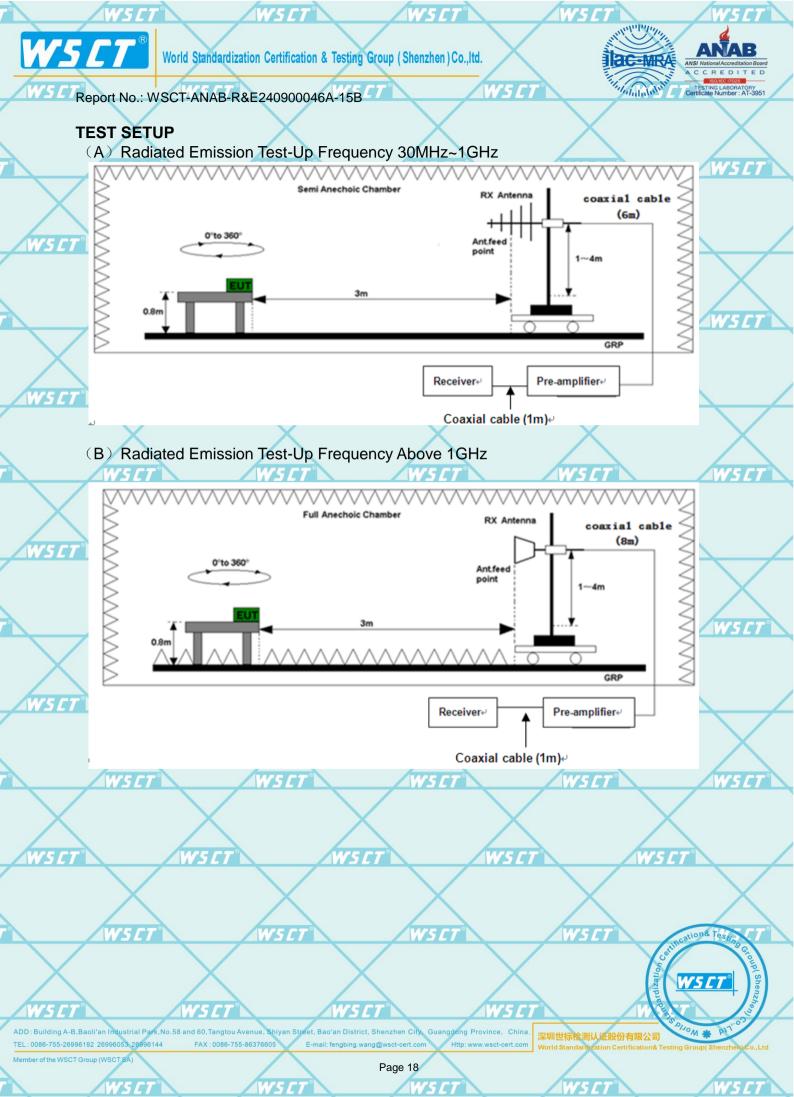


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TEST PROCEDURE

- 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.

WSCT	WSET	WSET	WSET	WSET	
	CT WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \times$	
WSCT	WSET	WSET	W5 ET	WSCT	
	CT WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		
WSCT	WSET	WSET	W5 CT	WSLT	
	WS.	$\langle \hspace{0.1cm} \rangle$		$\langle \times$	
WSCT	WSET	WSET	W5 CT	WSCT	
	ET WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \times$	
WSCT	WSCT	WSET	WSCT	WSLT WSLT	







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W5 CT

W5 CI

7.3.2. Test Results

Temperature	20 ℃	Relative Humidity	48%	
Pressure	1010 hPa	Test Mode	Mode 2 W5 [7]	1

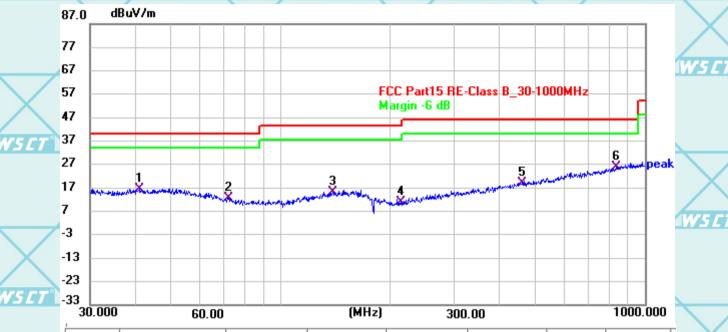
Please refer to following diagram for individual

Below 1GHz

Horizontal:

WS ET

W5CT



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	
1	41.0059	35.25	-18.89	16.36	40.00	-23.64	QP	
2	72.0526	35.40	-22.60	12.80	40.00	-27.20	QP	
3	138.9343	35.24	-19.97	15.27	43.50	-28.23	QP	
4	213.8571	34.84	-24.09	10.75	43.50	-32.75	QP	
5	459.5170	35.19	-16.23	18.96	46.00	-27.04	QP	
6 *	839.1818	36.13	-10.38	25.75	46.00	-20.25	QP	

W5C1

WS CT

W5 CT

W5 C

W5 C

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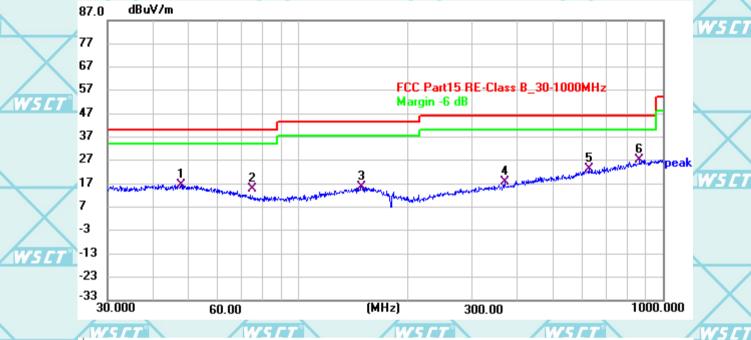
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WS ET







W5 CT

1									
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	47.7840	35.75	-19.04	16.71	40.00	-23.29	QP	_
	2	74.9520	38.43	-23.50	14.93	40.00	-25.07	QP	
	3	149.0278	35.19	-19.42	15.77	43.50	-27.73	QP	1
4	4	368.2730	36.21	-18.60	17.61	46.00	-28.39	QP	1
	5	628.6500	36.38	-13.08	23.30	46.00	-22.70	QP	
	6 *	863 4346	37.28	-10.08	27 20	46.00	-18 80	OP	

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

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

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

Limit (dBµV) = Limit stated in standard

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

WS CT

WSET

WS CT

W5C

W5E1

W5C

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WSCI

TEST RESULTS

-13 -23

NS CI

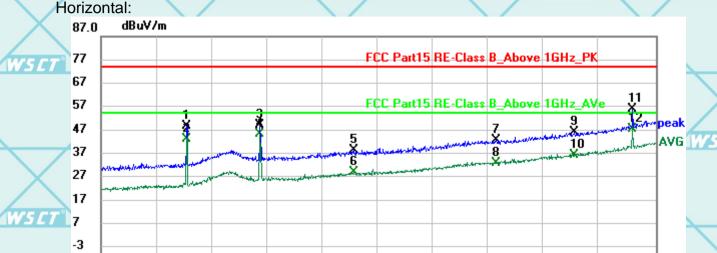
Above 1GHz(1~26GHz): (Mode 2—worst case)

WSE

WS CT

W5C

V5 C1



-33 1000.000 2000.000 3000.000 (MHz) 4500.000 6000.000

Frequency Reading Factor Level Limit Margin Detector No. (dBuV/m) (dBuV/m) (MHz) (dBuV) (dB/m) (dB) 1 1780.000 55.85 -7.1348.72 74.00 -25.28peak 2 1780,000 50.30 -7.1343.17 54.00 -10.83AVG 3 2436.250 52.99 -3.9349.06 74.00 -24.94peak 4 2436.250 49.09 -3.9345.16 54.00 -8.84 AVG -35.545 3278.125 40.10 -1.6438.46 74.00 peak 6 3278.125 30.37 -1.6428.73 54.00 -25.27AVG 7 3.29 -31.304565.000 39.41 42.70 74.00 peak 8 4565,000 29.60 3.29 32.89 54.00 -21.11 AVG W5E 9 5268.125 40.09 6.1246.21 74.00 -27.79peak 5268.125 30.03 54.00 -17.85AVG 10 6.12 36.15 11 5791.875 47.56 8.41 55.97 74.00 -18.03peak

WS CI

12

39.06

47.47

-6.53

W5C1

tion& Test

AVG

NS ET

FAX : 0086-755-86376605

5791.875

8.41

54.00

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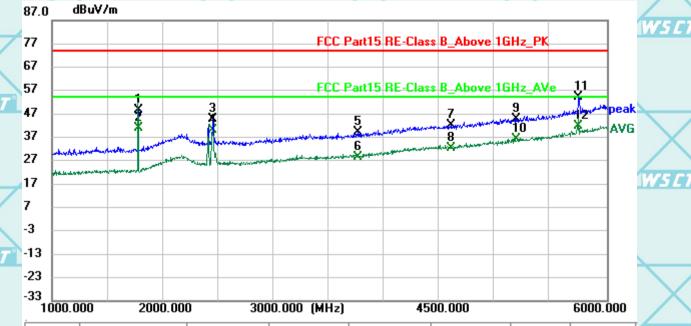
er of the WSCT Group (WSCT SA)

TEL: 0086-755-26996192 26996053 26996144



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Vertical:



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	14
	1	1783.750	55.85	-7.12	48.73	74.00	-25.27	peak	
1	2	1783.750	48.26	-7.12	41.14	54.00	-12.86	AVG	-
	3	2450.000	48.83	-3.85	44.98	74.00	-29.02	peak	
	4	2450.000	43.87	-3.85	40.02	54.00	-13.98	AVG	4
-	5	3760.000	39.09	-0.04	39.05	74.00	-34.95	peak	1
	6	3760.000	28.72	-0.04	28.68	54.00	-25.32	AVG	
	7	4599.375	38.78	3.44	42.22	74.00	-31.78	peak	
	8	4599.375	28.83	3.44	32.27	54.00	-21.73	AVG	1
	9	5177.500	39.05	5.83	44.88	74.00	-29.12	peak	
	10	5177.500	30.33	5.83	36.16	54.00	-17.84	AVG	1
-	11	5749.375	45.93	8.12	54.05	74.00	-19.95	peak	
	12 *	5749.375	33.72	8.12	41.84	54.00	-12.16	AVG	

NS CT

Remark:

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

W5CT°

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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W5E

Please refer to the attachment "Set Up Photos-15B" for relevant test setup photos *****END OF REPORT**** WS CT W5 CT WSET W5 ET

W5E

W5 C