

WSET



TEST REPORT

FCC ID: 2AXYP-OSW-804

Product: Smart Watch

Model No.: OSW-804

Trade Mark: oraimo

WS CI

Report No.: WSCT-ANAB-R&E240800044A-15B

Issued Date: 20 September 2024

Issued for:

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

W5 ET

W5CT

Issued By:

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

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WSET

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7112151	Walter Walter	1134	
	X	\times	X
	WSET WSET	SCT WS	CT WSCT
X	X	X	X
WSET	WSET WSET	WSLT	WSET
		X /	
	WSET WSET W	SET WS	CT" WS CT"
WSCT	WSET WSET	WSET	W5CT*

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W5 CT

W5 C1

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Test Certification

Product: Smart Watch

Model No.: OSW-804

Additional Model:

oraimo

Applicant:

ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL

CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

W5 CT

Manufacturer:

ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL

CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Date of Test:

06 September 2024 to 20 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, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

liona Guan lang

(Jiang Guanliang)

Checked By:

(Chen Xu)

Date: 20 Septem

Approved By:

(Li Huaibi)

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W5CT°

2. GENERAL DESCRIPTION OF EUT

	Product Name:	Smart Watch CT WS CT WS CT	5CT
X	Model :	OSW-804	
	Trade Mark:	oraimo	
<i>L</i> 1	Operating	Li-ion Polymer Battery: 552123 Nominal Voltage: 3.8V Rated Capacity: 300mAh Rated Energy: 1.14Wh Limited Charge Voltage: 4.2V	SET
/	Remark:	N/A.	
1			

WSCT WSCT WSCT WSCT WSCT	WSET
--------------------------	------

WS CT WS CT WS CT	WS CT'	

WSCT WSCT WSCT WSCT

W5CT°	W5 CT°	W5 ET	W5 CT	W5 CT*

W5 CT W	5 C T	W5ET	WSCT	WS CT
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W5CT"	W5CT [®]	WSET	WSCT	W5CT°

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				Strill See

WSCT WSCT WSCT

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WSCT

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WSCT



W5 CT

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3. Test Result Summary

	TARE CT. NACE O	TAPE PER	THE CT.
	Requirement	CFR 47 Section	Result
/	CONDUCTED EMISSION	§15.107	PASS
0	RADIATED EMISSION	W5ET §15.109 W5ET	PASS 5 CT

	CONDUCTED EMICCION	310.107	17100
W5 CT°	RADIATED EMISSION	W5 ET §15.109 W5 ET	PASS 5 CT
	Note:	X	\overline{X}
	1. PASS: Test item meets the require	ement. WS ET	WSET WSET
	2. Fail: Test item does not meet the		
	3. N/A: Test case does not apply to	the test object.	
WSET	4. The test result judgment is decide	d by the limit of test standard.	WSET
	WS ET WS L	WSCT	WSCT WSCT
WSCT	WSCT	WSET WSET	WSCT
	WSET WSE		WSCT WSCT
WSCT	WSET	WS CT WS CT	WSCT
	WSET WSE		WSCT WSCT
WSET	WSET	WSET WSET	WSCT
	WS ET WS E		X
X		X	WSET

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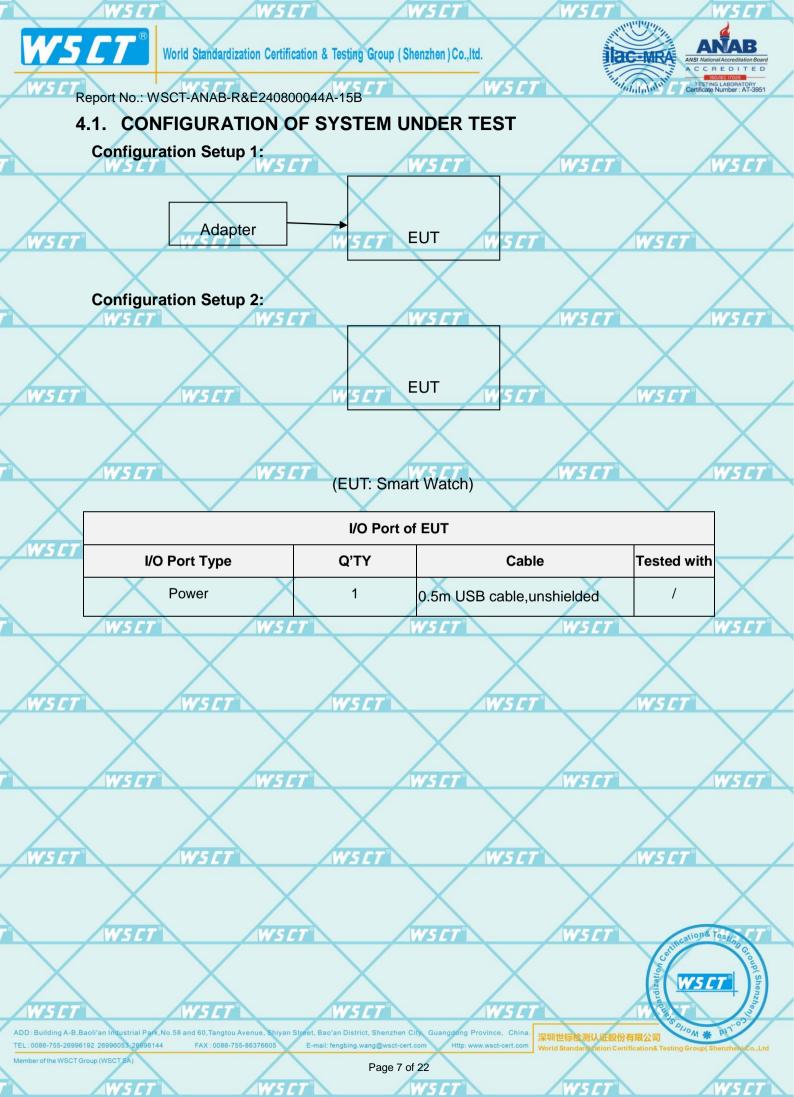
TEST METHODOLOGY 4.

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

W5 CT evaluat	ed respectively.	WSET	W5ET	W5 CT	
5.6					
	Pretest Mode		Description		
W	Mode 1	SET W		SIT	WSET
	Mode 2		Bluetooth		
WSET	WSET	WSET	W5 ET	WSET	
		\wedge	\ /	\wedge	
WS	ET W	SET	CT W	SET	WSCT
Weet	W/C (***	We ex	Weer	We ex	
WSET	WSET	WSET	WSET	WSET	$\overline{}$
	X	\times	X	X	X
W	SET W	SET WS	ET" W	SET	WSCT
X		X		X	
WSET	WSET	WS ET	W5 ET	W5 ET	
		\wedge			
W	S C T	SET W	TT W	SET	WSET
WSET	WSET	WSET	W5 CT	WSET	
	/	\checkmark		\checkmark	
W	SCT W	SET W.	TT W	5 CT dincation	& Testing
				13	ET Strang Gloup (Shenzhen)
				ardiza M.	Shenz _h
W5LT	WSET	W5 CT	W5 CT	W CE S DIJON	37.00
ALLE BUILDING A-R RAOU'AN INDUS	THAT EARK NO SE AND BU LANGIOU AVENUE S	mivan affect Bao an District Shenzhen City, G	uanggeng Province China		MR 121

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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 wsc accessories or support units. The following support units or accessories were used to

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	//	XCU32	X	/
Note: (1) (2)	The support ed For detachable column.	e type I/O cable sho	rized by Declaration of uld be specified the le	ngth in cm in 『	
W	WS ET	WS ET	WSCT	WSET	VS CT
	WSET	WSE	$\langle \times$		VSCT
W	SET	WSET	W5 ET	WSET	
	WSET	WSG	WSDI	A V	VSCT
W	SET	WSET	WSET	WSET	
	WSET	WSG	$\langle \times$		VSET
	X				

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W5CT°

5. 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	
N5L	T LISN W5D	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	\checkmark
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
	System Controller	WCT7°	SC1005 [7	- \	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	
N5 L	Horn Antenna V5	SCHWARZBECK	5 _ 7 9120D	M11417	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	\setminus
	9*6*6 Anechoic	WSET	WSET	/	11/05/2023	11/04/2024	5 C T

WSET	WSET	WSCT	WSET	WSE	
WS			WSET	WSET	WSET
WSET	WSET	WSET	WSET	X	
WS			WSCT	WSCT	WSET
WSET	WSET	WSET	WSET	\times	
			X	X	X

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WSET WSET WSET

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VSCT WSCT





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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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Bao'an District, Shenzhen City, Guangdong Province, 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

ANAB - Certificate Number: AT-3951

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

Accred	ditation (ANAB).Certific	ation Number: A1-395			X
W	SET	SET WS	ET WS		NS CT
WSET	WSCT	WSCT	WSET	WSCT	
	SET W.	W5	$\langle \hspace{0.1cm} \rangle$		WSET
WSET	WSCT	WSET	WSET	WSCT	
W	SET WS	W.S	ET WS		WSET
WSCT	WSLI	WSET	WSET	WSCT	
	\times	ET W5		acations to	Sin CT
WSET	WSCT	WSET	WSET	WSC	Group (Shenzhen)

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6.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based 15 on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

				_
WSCT	No.	Item	MU	
	1	Conducted Emission Test	±3.2dB	\setminus
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	W5 L
X	4	All emissions, radiated(<1GHz)	±4.7dB	
WSET	5	All emissions, radiated(>1GHz)	±4.7dB/5_7	
	6	Temperature	±0.5°C	\setminus
	7	Humidity	±2.0%	we

WSLT	WSET	WSET	WS	CT W	SET
		WSCT	WSET	WSET	WSCT
WSCT	WSET	WSCI	WS	W	SET
Ws	ET .	WSCT	WSET	WSET	WSET
WSCT	WSET	WSCI			SET
		WSCT	WSET	WSET	scation& Testing

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7. EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

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			AND AND AND CO.			And the second s	
1	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	
	0.50 -5.0	73.00	60.00	56.00	46.00	FCC	W.
	5.0 -30.0	73.00	60.00	60.00	50.00	FCC	

Note:

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

W5 CT

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

ZW5ET

4W5CT 1

WSIT

WS C7

WSET

W5 C7

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

WSET WSET WSET WSET

WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WS CT WS CT WS CT

WSET WSET WSET WSET

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World Standard zation Certification& Testing Group(Shenzhen) Co

SET WSE

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WSCT

WSCT





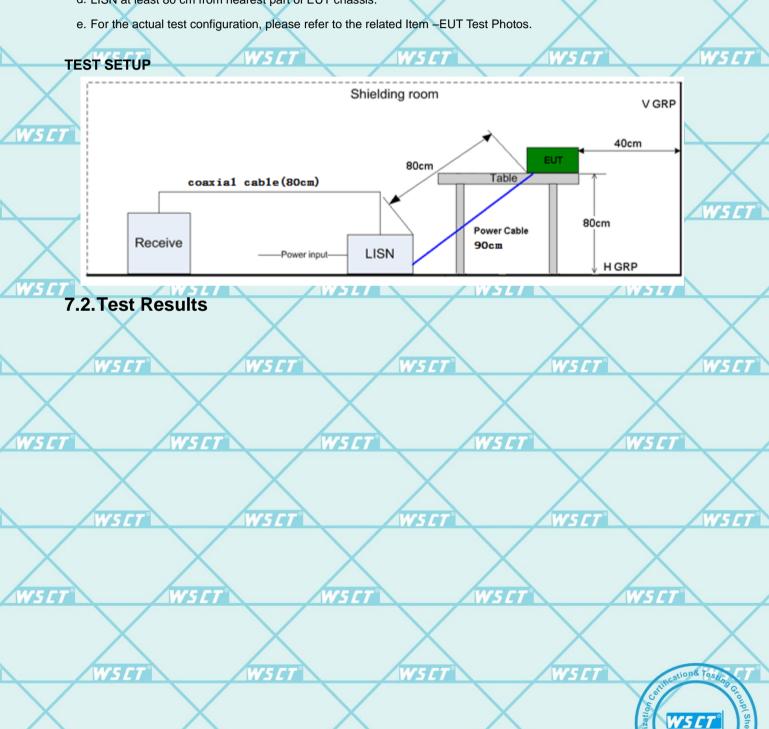
Report No.: WSCT-ANAB-R&E240800044A-15B

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.

W5C7

- 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.



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WS CT



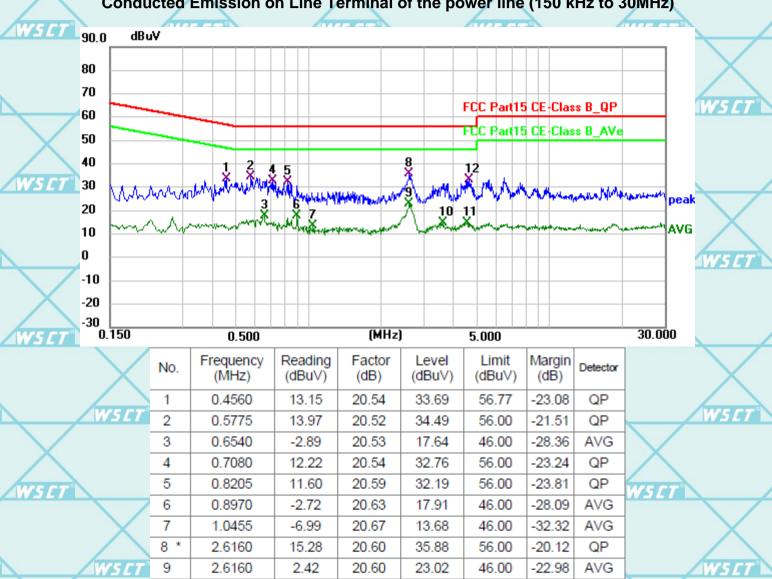




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Temperature 2	20 ℃	Relative Humidity	48%	
Pressure 1	1010 hPa	Test Mode	Mode 1(the worst case)	WSLI

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



W5C1

20.59

20.58

20.57

-5.62

-5.59

12.85

10

11

12

3.6285

4.5420

4.6635

46.00

46.00

56.00

-31.03

-31.01

-22.58

AVG

AVG

QP

14.97

14.99

33.42

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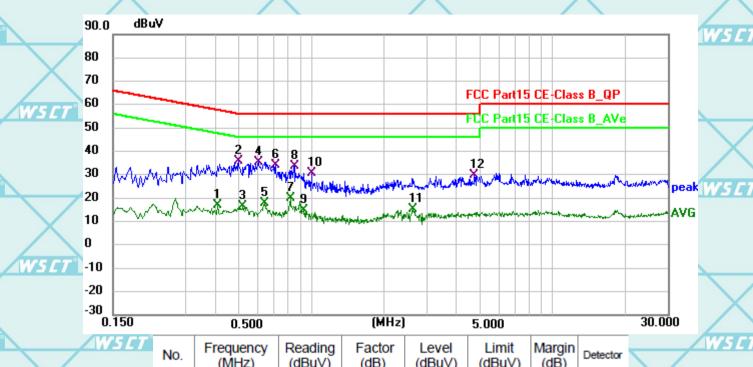






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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



		(111112)	(ubuv)	(ub)	(ubuv)	(ubuv)	(ub)		
	1	0.4063	-3.83	20.57	16.74	47.72	-30.98	AVG	
	2 *	0.4964	15.34	20.51	35.85	56.06	-20.21	QP	4
	3	0.5190	-4.19	20.51	16.32	46.00	-29.68	AVG	4
	4	0.6000	14.80	20.52	35.32	56.00	-20.68	QP	
	5	0.6403	-2.82	20.53	17.71	46.00	-28.29	AVG	
W5 CT	6	0.7080	13.48	20.54	34.02	56.00	-21.98	QP	
	7	0.8205	-0.69	20.59	19.90	46.00	-26.10	AVG	1
	8	0.8520	13.08	20.61	33.69	56.00	-22.31	QP	
	9	0.9240	-5.91	20.64	14.73	46.00	-31.27	AVG	1
	10	1.0003	10.11	20.67	30.78	56.00	-25.22	QP	L
\/	11	2.6430	-5.32	20.60	15.28	46.00	-30.72	AVG	
	12	4.7263	9.06	20.57	29.63	56.00	-26.37	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 $(dB\mu V) = Limit$ 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

W5C1

W5C

W5CT

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)
1	0.009~0.490	2400/F(KHz)	300
М	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	75L 3 W5L
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

 FREQUENCY (MHz)
 Limit (dBuV/m) (at 3M)

 PEAK
 AVERAGE

 Above 1000
 W5 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.
- W5 (3) Emission level (dBuV/m)=20log Emission level (uV/m). W5 [7]

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	'5 CT W 51000 MHz W 5 CT
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

	MARCH STATE	MAC CT [®] MAC CT [®]
1	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

AWS CT

WSCT

IWS CT

WSET

WSLT Strang County (Shenzing)

WSCT

4W5CT

IWS CT

AW 3 L I

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W5CT"

TEST PROCEDURE

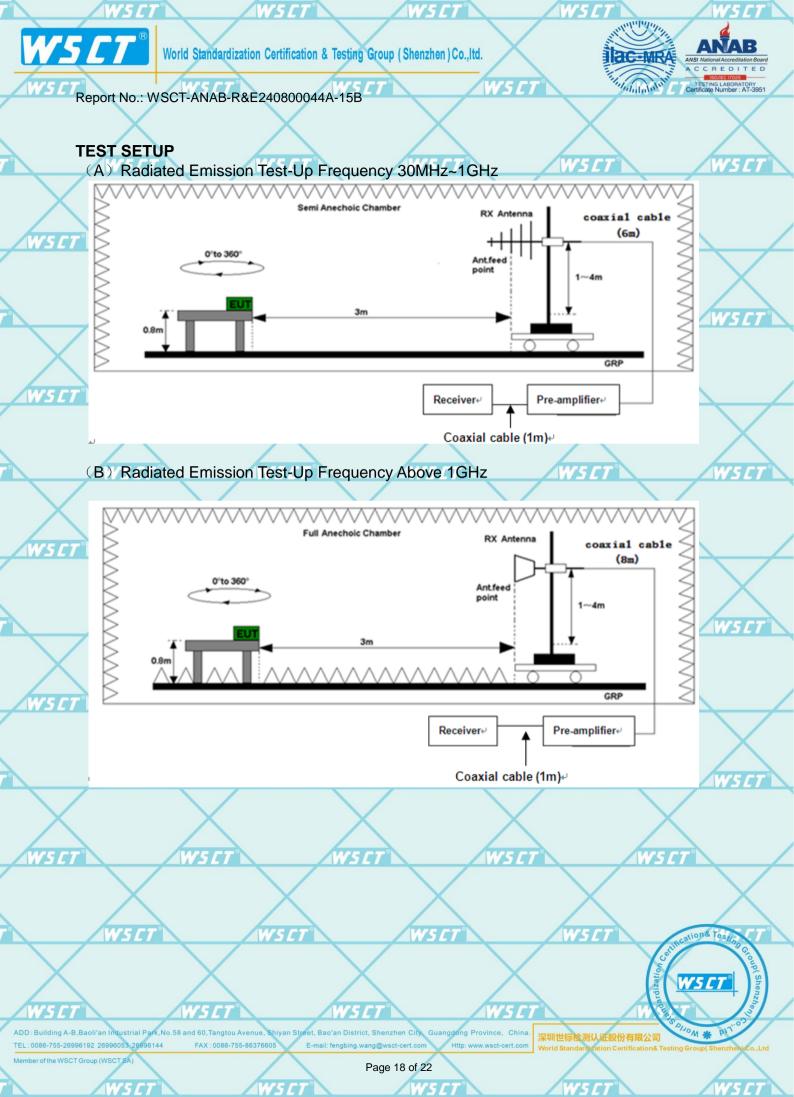
a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

AWS CT

- 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.

WSET	WSET	WSET	WSET	WSET	
WSI				VS ET	WSCT
WSET	WSET	WSET	WSCT	WSET	
WSI			\times	WSET	WSET
WSET	WSET	WSET	WSLT	WSET	
WSI				WSET	WSCT
WSET	WSET	WSET	WSET	WSET	
WSI				WS ET	on& Testing
WSET	WSET	WSET	WSCT	S. S	SCT Shenzhen
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7.3.2. Test Results

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

Please refer to following diagram for individual

Below 1GHz

Horizontal: WSET W5 C7 dBuV/m 87.0 77 67 FCC Part15 RE-Class B_30-1000MHz 57 Margin -6 dB 47 W5 C1

37 27 peak 17 7 -3 -13 -23 V5E -33 30.000 (MHz) 1000.000 60.00 300.00

W5ET°	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	82.8658	38.93	-23.99	14.94	40.00	-25.06	QP	
	2	126.4948	36.51	-20.84	15.67	43.50	-27.83	QP	
WS CT	3	192.2500	40.75	-23.12	17.63	43.50	-25.87	QP	W
	4	269.0743	43.35	-21.42	21.93	46.00	-24.07	QP	144
X	5 *	296.4433	45.25	-20.38	24.87	46.00	-21.13	QP	
	6	361.2385	39.51	-18.95	20.56	46.00	-25.44	QP	

W5 CI NSCI WS CI W5 C

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W5 C1



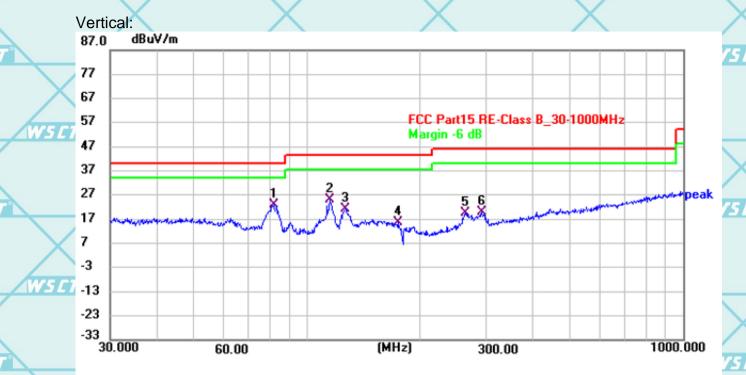
WSET I





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W5 CT



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1 *	81.9627	46.84	-24.08	22.76	40.00	-17.24	QP
	2	115.4723	46.98	-21.78	25.20	43.50	-18.30	QP
	3	126.9391	42.11	-20.80	21.31	43.50	-22.19	QP
	4	174.8067	36.80	-21.35	15.45	43.50	-28.05	QP
W5CT	5	264.1661	40.95	-21.52	19.43	46.00	-26.57	QP
	6	292.6991	40.26	-20.52	19.74	46.00	-26.26	QP

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)

W5 CI

WSC

W5C1 NS CI

WSCI WS CI

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WSCI

WS CI

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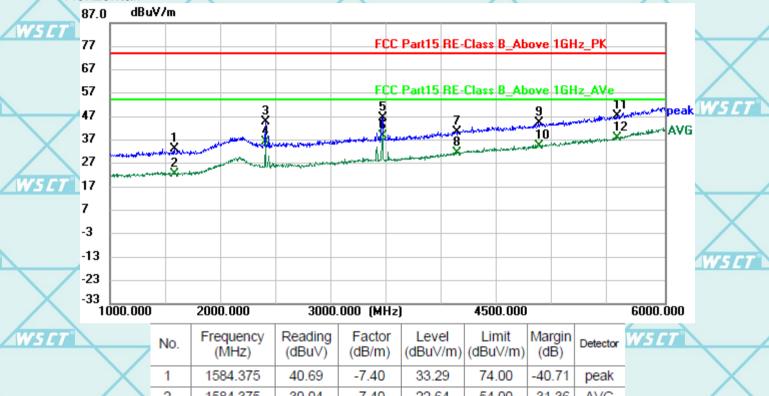
W5CT

TEST RESULTS

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

W5 CT Note: The spurious above 6G is noise only, do not show on the report.

Horizontal:



WSL	No.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	LV.
X	1	1584.375	40.69	-7.40	33.29	74.00	-40.71	peak	
	2	1584.375	30.04	-7.40	22.64	54.00	-31.36	AVG	
W5 CT°	3	2403.750	48.96	-4.06	44.90	74.00	-29.10	peak	
	4	2403.750	40.17	-4.06	36.11	54.00	-17.89	AVG	
	5	3455.000	47.95	-1.24	46.71	74.00	-27.29	peak	
WEET	6 *	3455.000	40.04	-1.24	38.80	54.00	-15.20	AVG	4
W5CT	7	4129.375	39.18	1.51	40.69	74.00	-33.31	peak	
	8	4129.375	30.19	1.51	31.70	54.00	-22.30	AVG	
	9	4866.875	39.80	4.63	44.43	74.00	-29.57	peak	
W5 CT	10	4866.875	29.72	4.63	34.35	54.00	-19.65	AVG	
	11	5571.875	40.20	7.18	47.38	74.00	-26.62	peak	
X	12	5571.875	30.62	7.18	37.80	54.00	-16.20	AVG	

W5 CT

NS CT

WS CT

W5 C1

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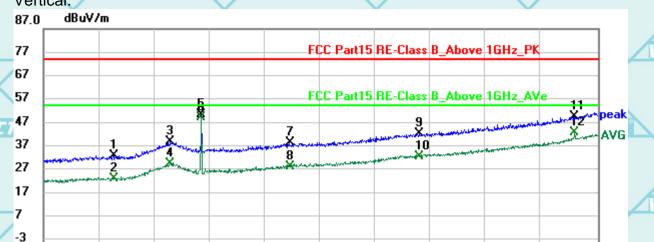


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Vertical:

-13

W5 [7-23



-33 1000.000 2000.000 3000.000 (MHz) 6000.000 4500.000

W5	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	0.00
	1	1638.750	40.24	-7.35	32.89	74.00	-41.11	peak	
	2	1638.750	30.39	-7.35	23.04	54.00	-30.96	AVG	
Welcz	3	2149.375	39.78	-1.18	38.60	74.00	-35.40	peak	
W5 CT	4	2149.375	30.64	-1.18	29.46	54.00	-24.54	AVG	7
	5	2425.625	54.28	-3.97	50.31	74.00	-23.69	peak	
	6 *	2425.625	53.04	-3.97	49.07	54.00	-4.93	AVG	
W.5	7	3220.625	40.21	-1.78	38.43	74.00	-35.57	peak	0
	8	3220.625	30.01	-1.78	28.23	54.00	-25.77	AVG	
X	9	4387.500	39.81	2.55	42.36	74.00	-31.64	peak	
	10	4387.500	29.98	2.55	32.53	54.00	-21.47	AVG	
W5CT°	11	5793.125	41.10	8.42	49.52	74.00	-24.48	peak	2
	12	5793.125	34.27	8.42	42.69	54.00	-11.31	AVG	

Remark: 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****

W5C1

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