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ANAB ANSI National Accreditation Board A C C R E D I T E D

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

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WTEST REPORT

WSET

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WS CT

FCC ID: 2AXYP-OTW-323-R

Product: True Wireless Earbuds

Model No.: OTW-323

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WSEI

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Trade Mark: oraimo

Report No.: WSCT-ANAB-R&E241200078A-15B

Issued Date: 03 January 2025

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Issued for:

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ORAIMO TECHNOLOGY LIMITED
FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
W5 C SHAN MEI STREET FOTAN NT HONGKONG
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Issued By:

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World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd.
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FAX: +86-755-86376605

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Report No.: WSCT-ANAB-R&E241200078A-15B

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					F14
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				/	\mathbf{X}
		7/10			
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WSET



W5 [] Report No.: WSCT-ANAB-R&E241200078A-15B

1 Tost Cortification

1. Test Certification

Product:

True Wireless Earbuds

Model No.:

OTW-323

Additional

Model:

oraimo

Applicant:

ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL

CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

WSCT

Manufacturer:

ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL

CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Date of Test:

15 December 2024 to 03 January 2025

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:

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Irang Guan/rang

(Jiang Guanliang)

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Checked By:

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(Chen Xu)

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Approved By:

(Li Huaibi)

Date:

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WSET



Report No.: WSCT-ANAB-R&E241200078A-15B

GENERAL DESCRIPTION OF EUT

	Product Name:	True Wireless Earbuds W5_T W5_T	(SET
/	Model :	OTW-323	
	Trade Mark:	oraimo	
	Operating Voltage	Charging Box: Model: OTW-323 Input: 5V==1A Output: 5V==400mA Capacity: 500mAh 3.7V 1.85Wh Charging Box Battery: Li-ion Battery: 802035 Voltage: 3.7V Rated Capacity: 500mAh 1.85Wh Earphone Battery: Li-ion Battery: 451012 Rated Voltage: 3.7V Rated Capacity: 35mAh 0.1895Wh	7517
	Remark:	N/A. WSCT WSCT	V5 CT

M	VSCT	WSET	WSET	WSET	WSET
WSCT	WSET	\rangle		$\langle \hspace{0.1cm} \rangle$	CT .
	YSCT	WSET	WSET	WSET	WSCT
WSCT	WSET	\rangle		$\langle \hspace{0.1cm} \rangle$	CT .
	X	X	X		X

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3. Test Result Summary

	Requirement	CFR 47 Section	Result
	CONDUCTED EMISSION	§15.107	PASS
0	RADIATED EMISSION	W5 ET §15.109 W5 ET	PASS 5 CT

	CONDUCTED EMICCION	310.107	17100	
W5 CT°	RADIATED EMISSION	W5 ET §15.109 W5 ET	PASS 5 CT	/
	X		X	\times
_	Note:			
	1. PASS: Test item meets the require		W5 ET	W5 CT
\times	2. Fail: Test item does not meet the	X X	\times	
	3. N/A: Test case does not apply to t			
W5CT"	4. The test result judgment is decide	d by the limit of test standard.	W5 ET	
	WS CT WS C	WSET	WSCT	WS CT
WSCT	WSET	WSET WSET	WSET	
	WSET WSE		WSLT	WSCT
WSCT	WSET	WS CT WS CT	WSET	
	WSET WSE		WSET	WSLT
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	WS ET WS E	$\langle \hspace{0.1cm} \hspace{0.1cm}$	\times	Teste
X		X	WS C7	Group(Shenz,

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TEST METHODOLOGY 4.

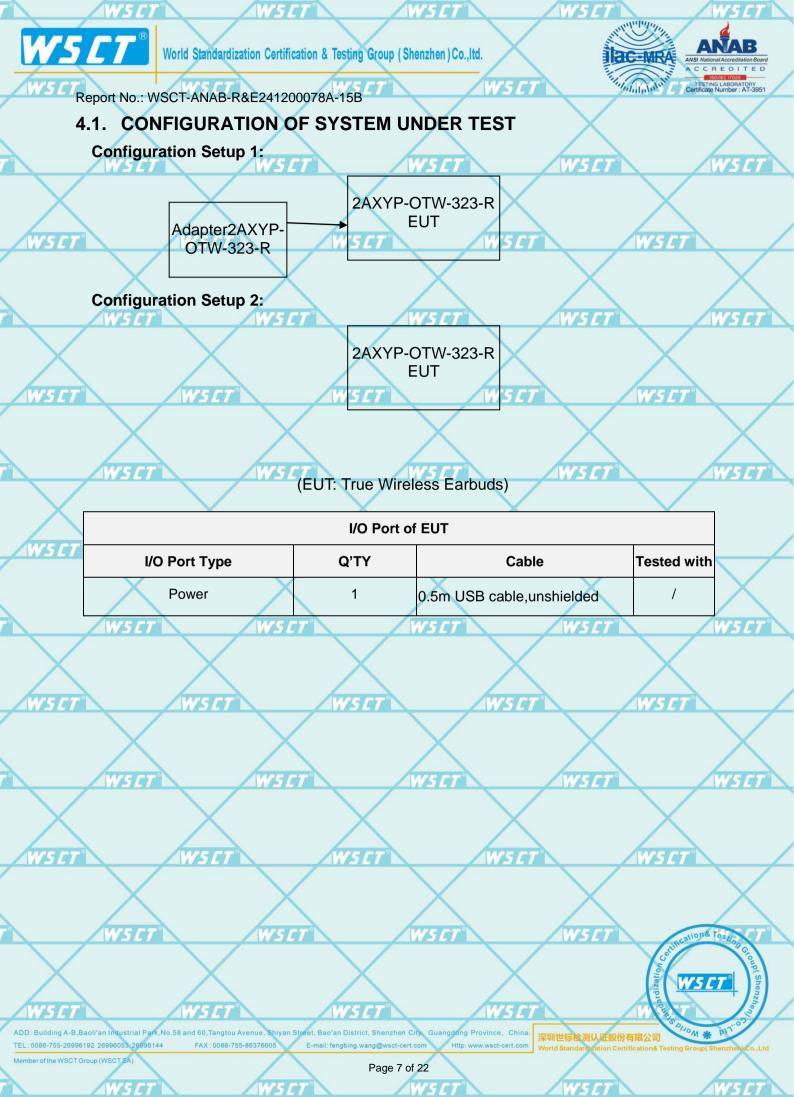
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Cvaldat	ed respectively.				
/	Pretest Mode		Description		
W		STT W	Charging	WSCT	WSET
	Mode 2		Bluetooth		
X	X	X	X		
WSET	WSET	WS ET	WSC	ws.	7 7°
			/		
	X .	X	X	X	X
W	ET" W	SET W	75 CT	WSET	WSLT
W5 ET	WSET	WS ET"	W5 C	W5	ET
			\wedge		
W	SET W	SET W	IS ET	W5 ET	WSCT
WSCT	WSET	WSET	WSC	W5	ET
W	SET W	SCT W	IS ET	W5 ET	WSET
W5 LT	WSET	WSET	WSE	W 5	ET .
		/	\		
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				dizati	WSCT° Shen
WSET	WSET	WSET	W5 Ci	T	WSLT Shenzy
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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 WSI accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Ż	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	//	XCU32	1	/

	Note: (1)		uipment was author	rized by Declaration	on of Confirmation	W5ET*
	(2)		type I/O cable sho			
		column.	3,10	/		
WSCI		WS ET"	W5 C	r w	SET°	W5CT°
		X				X
	W	SET	WSET	WSCT	WSET	WS ET
X		X	X		X	X
Average		7110 00	Tues e			1000
W5C1	-	WSET	WSC	W	SET	WSCT
		X	X	X	X	X
_						
	W	SET"	WSET	WSET	WSLT	WSET®
			\sim		\vee	
W5 C1		WSET	WSC	7° W	SET	W5 CT
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	W	S E T	W5 ET°	WSLT	WSET	WSCT
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WSE		WSET	W5 C	T W	SET	WSET
		X	X	X	X	X
	W	SET	W5 ET	WSET	WSET	ation& Tech
						WSCT WSCT
X		X	X		X	WSCT S
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WSE		WSET	W5C		SET	100

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W5 CT

5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
	Test software	`	EZ-EMC	CON-03A		\ <u>-</u>	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025	
W5 L	LISN W5L	7 AFJ W	5 <i>ΓT</i> LS16	16010222119	11/05/2024	11/04/2025	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	
	pre-amplifier	CDSI	PAP-1G18-38	-	11/05/2024	11/04/2025	
	System Controller	WCTT	SC1005 [7	- /	11/05/2024	11/04/2025	ET
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2024	11/04/2025	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2024	11/04/2025	
W51	Horn Antenna W5/	SCHWARZBECK	5 _ 7 9120D	1141	11/05/2024	11/04/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2024	11/04/2025	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2024	11/04/2025	
	9*6*6 Anechoic	WSCT	WSET	- /	11/05/2024	11/04/2025	5 C T

WSET	WSET	WSET	WSCT	WSG	
WS			517	WSCT	WSCT
WSET	WSCT	WSET	WSCT	WSG	
WS	CT WS	CT W	SET	WSCT	WSCT
WSET	WSET	WSET	WSET	WSC	
WS			507	\times	X
X	\times		X	in the state of th	ations Testing Cook

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6. Facilities and Accreditations

6.1. Facilities

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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 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 (ANAB). Certification Number: AT-3951

	WSET*	WSET	WSET	W5 CT°	WS CT °
WSCT	WSET	\times			507
	WSET	WSET	WSET	WSET	WSET
WSCT	WSET	\times			SET
	W5 ET	WSET	WSET	WSET	WSCT
WSCT	WSCT	\times			SET
	WS CT	WSET	WSET	\times	\times
WSET	WSET	\times		ET W	WSLT Shenzalone

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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 %.

WSET	No.	Item	MU	
	1	Conducted Emission Test	±3.2dB	\times
	2	RF power, conducted	±0.16dB	7770
	3	Spurious emissions, conducted	±0.21dB	W5C
X	4	All emissions, radiated(<1GHz)	±4.7dB	
WSET	5	All emissions, radiated(>1GHz) / W5 [T]	±4.7dB/5_7	
	6	Temperature	±0.5°C	\times
	7	Humidity	±2.0%	WSC

WSCT	WSET	WSET	WSET	WSET	
	TET W5				WSET
WSCT	WSLT	WSET	WSLT	WSCT	
	W5		ET WS		W5 ET
WSCT	WSCT	WSET	WSCI	WSCT	
	ET WS				Testio T
				CT Caitheations	Scroup

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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

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Υ.					TWO STATES OF THE STATES OF TH		
7	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard	_
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru	
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC	4
	0.50 -5.0	73.00	60.00	56.00	46.00	FCC	1
	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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W5C1 NSCI WS CI WSE

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TEST PROCEDURE

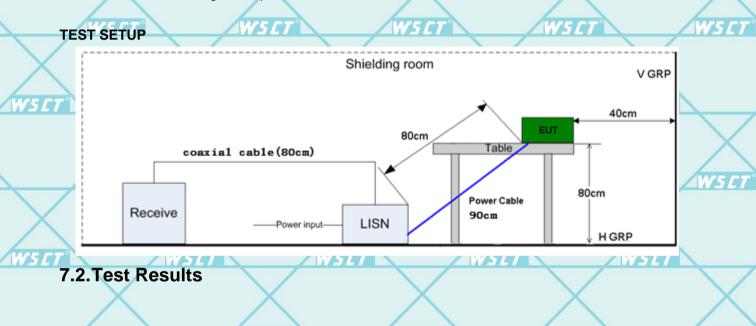
a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

W5CT

- 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.

AWS CT

- 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.



	V	\checkmark			
\wedge	\wedge	\wedge	\wedge	\wedge	

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WSET® WSET® WSET®	V5 CT	W5 CT "
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WE CT WE CT WE CT					
	W5CT"	WSCT	WSET	WSET	W5 CT

W5ET°	WSET	W5 ET	W5 ET	incations Testing
				Cottill Soften

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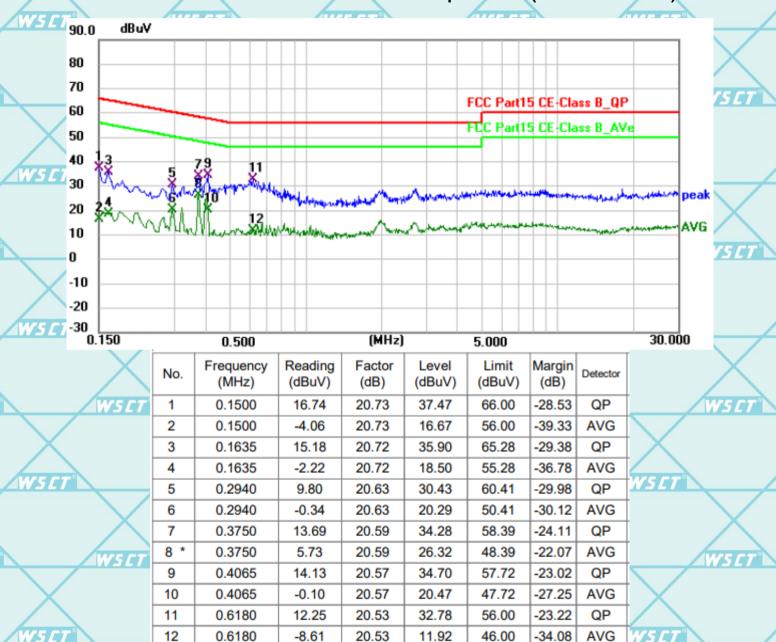


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Temperature	20 ℃	Relative Humidity	48%	
Pressure	1010 hPa	Test Mode	Mode 1(the worst case)	WSLI

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



WS CT WS CT WS CT WS CT

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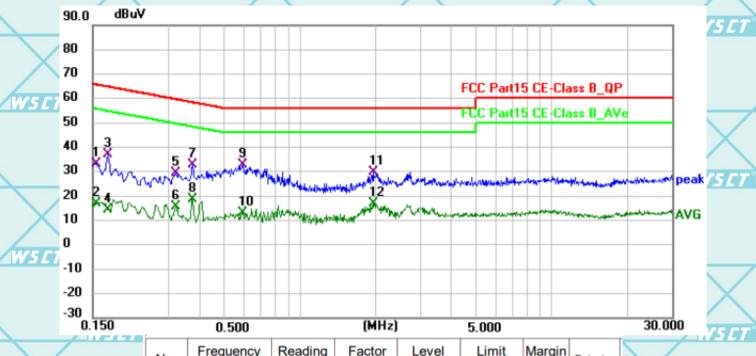




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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
	1	0.1545	12.46	20.73	33.19	65.75	-32.56	QP	/
	2	0.1545	-3.81	20.73	16.92	55.75	-38.83	AVG	И
	3	0.1725	16.52	20.71	37.23	64.84	-27.61	QP	
	4	0.1725	-6.18	20.71	14.53	54.84	-40.31	AVG	
	5	0.3209	8.94	20.62	29.56	59.68	-30.12	QP	
	6	0.3209	-5.01	20.62	15.61	49.68	-34.07	AVG	<
	7	0.3750	12.28	20.59	32.87	58.39	-25.52	QP	
	8	0.3750	-1.98	20.59	18.61	48.39	-29.78	AVG	
	9 *	0.5910	12.32	20.52	32.84	56.00	-23.16	QP	7
7	10	0.5910	-7.57	20.52	12.95	46.00	-33.05	AVG	
	11	1.9590	9.13	20.61	29.74	56.00	-26.26	QP	
-	12	1.9590	-3.60	20.61	17.01	46.00	-28.99	AVG	
10	1	/////			777.8.2.22		11111		

Note1:

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Freq. = Emission frequency in MHz

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

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

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

Limit (dBμV) = 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

W5C

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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)
6	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
Ļ	216~960	200	N21 3 W21
1	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

 PEAK
 AVERAGE

 Above 1000
 W5 74
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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). W5 [T

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

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

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TATILITY Continued National Actions

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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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WSET	WSET	WSET	WSET	WSET
WSET	$\langle \rangle$	\times	WSET	WSET
WSET	WSET	WSCT	WSET	WSET
WSCI	$\langle \times $	\times	X	WSET
WSET	W5ET*	WSET	WSET	WSET
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WSET

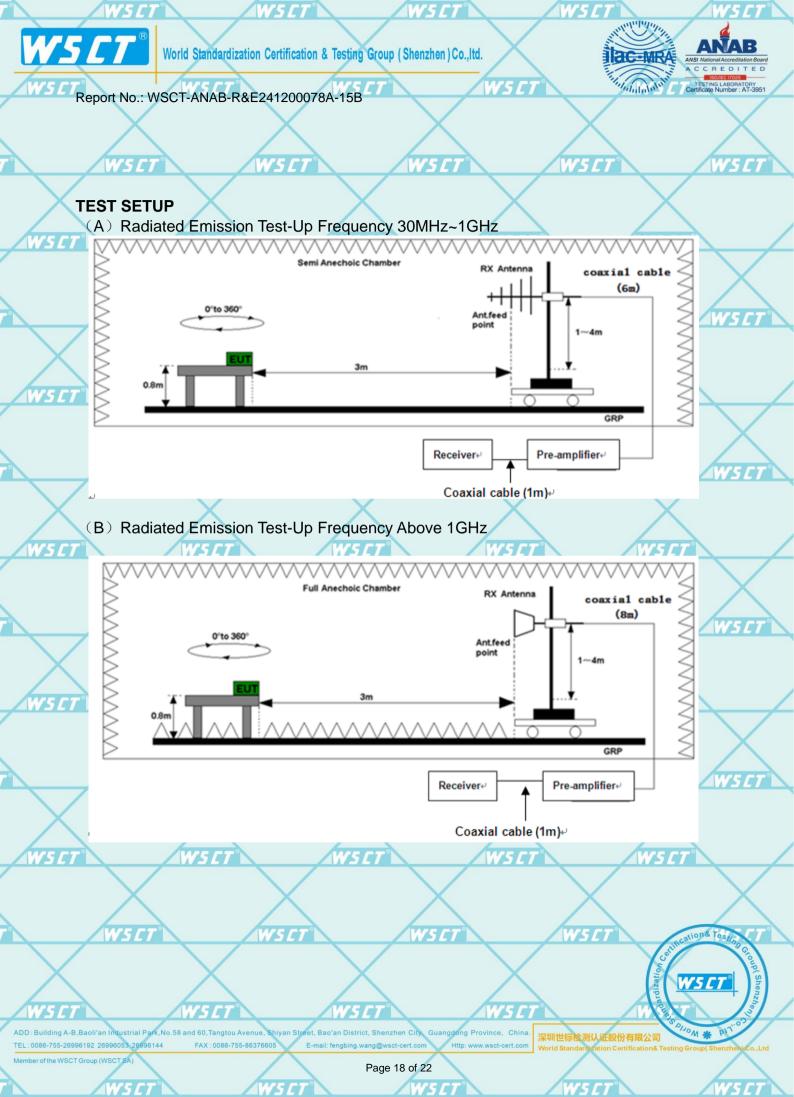
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7.3.2. Test Results

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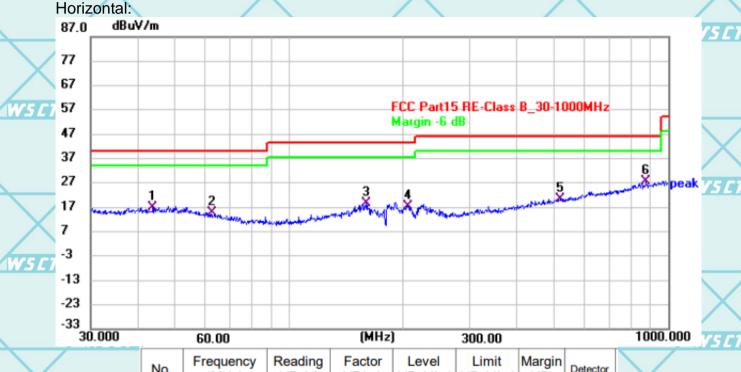
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Temperature	20	$^{\circ}$	Relative Humidity	48%
Pressure	101	0 hPa	Test Mode	Mode 2(the worst case)

Please refer to following diagram for individual

Below 1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	43.9273	36.01	-18.93	17.08	40.00	-22.92	QP	1
2	63.0916	36.04	-21.06	14.98	40.00	-25.02	QP	4
3	160.8384	38.10	-19.66	18.44	43.50	-25.06	QP	
4	206.3071	41.49	-24.00	17.49	43.50	-26.01	QP	
5	519.5201	35.70	-15.15	20.55	46.00	-25.45	QP	
6 *	876.0146	37.34	-9.88	27.46	46.00	-18.54	QP	7

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W5 CT

Vertical: dBuV/m 87.0 77 67 57 FCC Part15 RE-Class B 30-1000MHz Margin -6 dB 47 37 27 17 -3 W5 C -13 -23 -33 30.000 1000.000 (MHz) 60.00 300.00

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	43.2775	36.01	-18.85	17.16	40.00	-22.84	QP
	2	88.0329	45.34	-24.04	21.30	43.50	-22.20	QP
7	3	188.8259	46.10	-22.90	23.20	43.50	-20.30	QP
	4	415.9968	35.30	-17.22	18.08	46.00	-27.92	QP
	5	707.0097	36.94	-12.10	24.84	46.00	-21.16	QP
16	6 *	901.3318	38.24	-9.79	28.45	46.00	-17.55	QP

Note1:

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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)

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W5 CT



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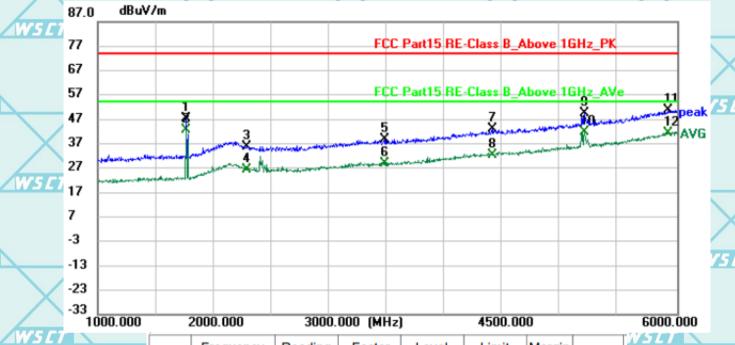
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TEST RESULTS

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

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





7	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	4
	1	1766.250	54.49	-7.15	47.34	74.00	-26.66	peak	
7	2 *	1766.250	49.63	-7.15	42.48	54.00	-11.52	AVG	
	3	2288.125	38.61	-2.73	35.88	74.00	-38.12	peak	7
	4	2288.125	29.19	-2.73	26.46	54.00	-27.54	AVG	
	5	3476.250	40.13	-1.18	38.95	74.00	-35.05	peak	
	6	3476.250	30.22	-1.18	29.04	54.00	-24.96	AVG	1
	7	4409.375	40.23	2.63	42.86	74.00	-31.14	peak	
	8	4409.375	29.67	2.63	32.30	54.00	-21.70	AVG	
	9	5206.250	43.39	5.93	49.32	74.00	-24.68	peak	
4	10	5206.250	35.72	5.93	41.65	54.00	-12.35	AVG	<
	11	5925.000	41.38	9.31	50.69	74.00	-23.31	peak	
	12	5925.000	31.89	9.31	41.20	54.00	-12.80	AVG	
	-								

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W5C7® World

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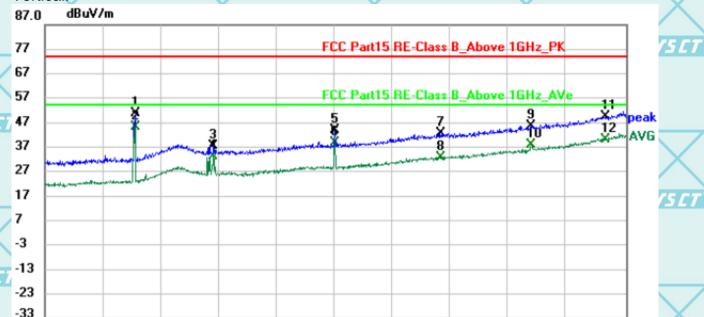


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2000.000

Vertical:

1000.000



Frequency Reading Factor Level Limit Margin No. Detector (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1 1783,125 57.90 -7.12 50.78 74.00 -23.22 peak 2 * 1783,125 52.20 -7.1245.08 54.00 -8.92 AVG 3 2450.625 -3.85 -36.39 41.46 37.61 74.00 peak 2450.625 37.16 -3.8533.31 54.00 -20.69 AVG 4 3498,125 -1.1344.05 74.00 -29.95 5 45.18 peak AVG 6 3498,125 39.85 -1.1338.72 54.00 -15.28 W5C1 7 4408.125 39.85 2.62 42.47 74.00 -31.53 peak 8 4408.125 -21.35 AVG 30.03 2.62 32.65 54.00 74.00 -28.33 9 5185.000 39.82 5.85 45.67 peak

3000.000 (MHz)

W5CT

6000.000

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Remark: WS CT WS CT

32.22

40.71

31.32

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

5.85

8.63

8.63

Freq. = Emission frequency in MHz

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

5185.000

5823.750

5823.750

Over= Emission Level - Limit.

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WS ___ 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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IWS CT

4500.000

54.00

74.00

54.00

-15.93

-24.66

-14.05

AVG

peak

AVG

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