



WSET

TEST REPORT

FCC ID: 2AXYP-OSW-830

Product: Smart Watch

W5 [] Model No.: OSW-830

Trade Mark: oraimo

Report No.: WSCT-ANAB-R&E241000054A-LE

Issued Date: 01 November 2024

Issued for:

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

WSET

Issued By:

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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ANAB

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Report No.: WSCT-ANAB-R&E241000054A-LE

1. Test Certification

Product: Smart Watch

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Model No.:

OSW-830

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Additional Model:

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W5 CT°

W5 CT°

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ORAIMO TECHNOLOGY LIMITED

ORAIMO TECHNOLOGY LIMITED

Applicant: FLAT N 16/I

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG W5 [7]

Manufacturer:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

WSET

Date of receipt: 14 October 2024

Date of Test:

15 October 2024 ~ 31 October 2024

Applicable

FCC CFR Title 47 Part 15 Subpart C Section 15.247

Standards: KDB 558074 D01 DTS Meas Guidance v04

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.

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Tested By: W5

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Checked By:

(Qin Shuiquan)

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(Wang Xiang)

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Approved By:

Date: 01 November Jory

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Test Result Summary 2.

	Annual Annual		ATT TO SERVICE AND ADDRESS OF THE PARTY OF T	THE CE
$\overline{}$	Requirement	CFR 47 Section	Result	W5CT [®]
	Antenna requirement	§15.203/§15.247 (c)	PASS	
CT"	AC Power Line Conducted Emission	W5 CT §15.207	N/AWSET	$\overline{}$
	Maximum conducted output power wsc	§15.247 (b)(3) §2.1046	W5 C PASS	WSET
67 °	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
	Power Spectral Density	§15.247 (e)	PASS	
	Band Edge W5 L	1§5.247(d) §2.1051, §2.1057	PASS	WS CT°
\leq	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
	W.S.	WS WS		

Note:

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.

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W5 C1 W5 E7 W5 E1 W5C1

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TESTING LABORATORY

Report No.: WSCT-ANAB-R&E241000054A-LE

W5CT

3. EUT Description

	Product Name:	Smart Watch W5 [7]	V5CT°
	Model :	OSW-830	
	Trade Mark:	oraimo	
T	Software version:	V1.0 W5-11	
	Hardware version:	Z1650 V2.0	X
	Frequency Range:	1M/2M:2402-2480MHz(TX/RX)	15 CT °
/	Channel Separation:	2MHz	
/	Number of Channel:	40	
7	Modulation W5 [7] Technology:	GFSK WSET WSET WSET	
	Antenna Type	FPC Antenna	X
	Antenna Gain:	-5.25dBi	V5 CT°
/	Operating Voltage	Li-ion Polymer Battery: 552123V Capacity:300mAh/3.8V/1.140Wh	
7	Remark:	N/A. WSCT WSCT	

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

2. Antenna gain provided by the applicant.

Operation Frequency each of channel WS CT

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
0	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
_	\	LIFIA	\	LIFIA	\	VEIG	1	11213
	8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
	Remark: Channel 0, 19 & 39 have been tested.							

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4. Genera Information

4.1. Test environment and mode

	Operating Environment:		
/	Temperature:	25.0 °C	
9	Humidity: 54	56 % RH	
	Atmospheric Pressure:	1010 mbar	X
	Test Mode:		W5 C
	Engineering mode:	Keep the EUT in continuous transmitting	
		by select channel and modulations(The value of duty cycle is 98.46%) with	
	W5CT W5CT	Fully-charged battery. W5 [7]	

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

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.

0	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	\times	X	X	1	/

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1. 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."

5.2. ACCREDITATIONS

CNAS - Registration Number: L3732

W5 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 15 cm Designation Number: CN1303.

ANAB - Certificate Number: AT-3951

W5 The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB). Certification Number: AT-3951

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5.3. Measurement Uncertainty

The reported uncertainty of measurement y ± 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 %.

	No.	Item	ми	
W5CT°	1	Conducted Emission Test	±3.2dB 5 7	
	2	RF power, conducted	±0.16dB	X
	3 _{W5C}	Spurious emissions, conducted	±0.21dB	W5 CT
	4	All emissions, radiated(<1GHz)	±4.7dB	
	5	All emissions, radiated(>1GHz)	±4.7dB	
W5CT	6	Temperature	±0.5°C	
	7	Humidity	±2.0%	X
	W5 C	T WSCT WSCT WS	LT°	WSET

W5 ET	WSET	WSET	WSCT	W5 ET°	
				ET WSE	7
X	X	X	X		

WSGT	WSCT	WS	WSET	WSET

W5ET [®]	W5 CT	W5 CT	WS CT	WSET"

	WS CT °	W5 L	7° W5	CT W	SET
\rightarrow		X	X	\times	WSC7 Shear



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5.4. MEASUREMENT INSTRUMENTS

	U.T.IVILAGOINEI		X		X		
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	'5 L
1	Test software	-	EZ-EMC	CON-03A	-	\ -	
	Test software	- /	MTS8310		- /		
<i>C)</i>	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	X
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	. E . f
/	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	36
	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	X
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	rs 1
/	Pre-Amplifier	CDSI	PAP-1G18-38	1	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2023	7/28/2024	
C J	9*6*6 Anechoic		(SCT°	W5 CT	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	-	11/05/2023	11/04/2024	X
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	
	Cable	TIME MICROWAVE	LMR-400 5 L	N-TYPE04	11/05/2023	11/04/2024	'5 L
(System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
-	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA300 0	-	11/05/2023	11/04/2024	X
	Loop Antenna	EMCO	6502 _{W5} [00042960	11/05/2023	11/04/2024	75 L
/	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
/	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
<i>C 1</i>	Power sensor / 5	Anritsu	MX248XD	W5 CT	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	X

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Test Results and Measurement Data 6.

6.1. Antenna requirement

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Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is a Wire Antenna. it meets the standards, and the best case gain of the antenna is -5.25dBi.







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AWS CT

6.2. Conducted Emission

6.2.1. Test Specification

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6.	2.1. Test Specification	W5ET	VSCT	WSCT"
X	Test Requirement:	FCC Part15 C Section 15.207	X	
WSCT	Test Method: 5 7	ANSI C63.10:2014 W5 [7]	WSET	
	Frequency Range:	150 kHz to 30 MHz	\checkmark	\mathbf{X}
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep tii	ne=auto	WE ET
WSET	Limits:	Frequency range (MHz) Quasi-peak 0.15-0.5 66 to 56* 0.5-5 56 5-30 60	it (dBuV) Average 56 to 46* 46 50	W5CT*
	\times	Reference Plane		X
	WSET WSE	40cm 10cm	N	W5CT
WSET	Test Setup:	Remark E.U.T Adapter Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC power	WSCT
\times	Test Mode:	Charging + Transmitting Mode	\times	
WSET	WSCT WSCT		(L.I.S.N.). This impedance for the nnected to the main les a 500hm/50uH	WSCT
WSET	Test Procedure:	coupling impedance with 50ohm to refer to the block diagram of the photographs). 3. Both sides of A.C. line are checked.	ne test setup and	
	WSET* WSE	conducted interference. In order to emission, the relative positions of e the interface cables must be cha ANSI C63.10:2014 on conducted management.	find the maximum quipment and all of nged according to	Testing T
	Test Result:	N/A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Group (Sh
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6.2.2. Test data

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

	00111garation (120 V/10, 00 112)			
WSET	WS CT Test data Note: EUT powered by battery n	not applicable	WSET WS	WS ET
	WSCT WSC		WSLT	WSET
WSET	WSET	\times	WSET WS	
	WSCT WSCT	W5 CT	WSET	WSET
WSET	WSET	WSET	WSET WS	CT .
	WSCT WSCT	WSET	WSET	W5 ET
WSET	WSET	WSET	WSET WS	ET
	WSET WSET	WSLT	WSET	ncations testing
WSET	WSCT		WS CT	WSCT Shenza
ADD: Building A-B Baol	i'an Industrial Park No.58 and 60 Tangtou Avenue, Shiyan Str	eet, Bao'an District, Shenzhen City, Guangdong Proving	nce. China.	O'DIAOM SE DITION

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6.3. Conducted Output Power

6.3.1.	Test S	pecification	WS CT	
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	or in root openingation		
X	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
W5 CT	Test Method:	KDB558074 W5 [7] W5 [7]	
	Limit:	30dBm	\mathbf{X}
	Test Setup:		W5ET°
		Spectrum Analyzer EUT	
W5CT	Test Mode:	Refer to item 4.1	
X	Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW 	W5CT
WSET			W5 ET
X	Test Result:	amplitude level. PASS	
WELL	WELT	WELT WELT WELT	

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W5 CT

W5 E7

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W5 C1

6.3.2. Test Data

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BLE 1M					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest	8.38	30.00	PASS		
Middle	8.06	30.00	PASS		
Highest	6.95	30.00	PASS	X	
	Lowest Middle	Test channel Maximum Conducted Output Power (dBm) Lowest 8.38 Middle 8.06	Test channel Maximum Conducted Output Power (dBm) Limit (dBm) Lowest 8.38 30.00 Middle 8.06 30.00	Test channel Maximum Conducted Output Power (dBm) Limit (dBm) Result Lowest 8.38 30.00 PASS Middle 8.06 30.00 PASS	

/		BLE 2N	Л		WSCT
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	
9	Lowest	8.355 [7]	30.00	PASS	
	Middle	8.07	30.00	PASS	
	Highest	6.92	30.00	PASS	

Test plots as follows:

W5 C1 W5E7 W5 [1 W5C1 W5 E1

W5 CT W5 C1 W5 CT W5 CT W5 CT

W5C

W5E W5 CI W5C W5 C

W5 CI W5E1

> W5C1 W5 C1 W5 C1 W5 C1

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6.4. Emission Bandwidth

6.4	14	Test	Sr	eci	fica	tion	W	5	CT	
0.4.		1621	OL	ノせし	IICa	LIOI	34.48			

W5 C7

W5C7

W5CT

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
W5 ET	Test Method:	KDB558074 W5 [T] W5 [T]	
	Limit:	>500kHz	
	Test Setup:		SET
		Spectrum Analyzer	
W5CT°	Test Mode:	Refer to item 4.1	
W5 ET	Test Procedure:	3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.	SET
	Test Result:	Measure and record the results in the test report. PASS	X
	WSE	WSI44 WSI44 W	SLI I

W5 CI W5 CT W5C

W5C7 W5 ET W5 C7 W5E7

W5C1

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6.4.2. Test data

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	The self and the s		make mild \		
Test channel	6dB Emission Bandwidth (kHz)				
rest channel	BT LE mode	Limit	Result		
Lowest	655.3	>500k	WSCT		
Middle	655.5	>500k	PASS		
Highest	646.7	>500k			

BLE 2M

W5 ET

WS ET

W5 CT W5ET" W5CT° 6dB Emission Bandwidth (kHz) Test channel

BT LE mode Limit Result 1131 >500k Lowest Middle 1120 >500k **PASS** >500k Highest 1099

Test plots as follows:

W5 CI WS CI WSEI W5 CT W5 E1

W5 CT W5 CT W5 CT W5 CT W5 E1

W5E W5C

WS CT W5 CI W5E1 W5 []

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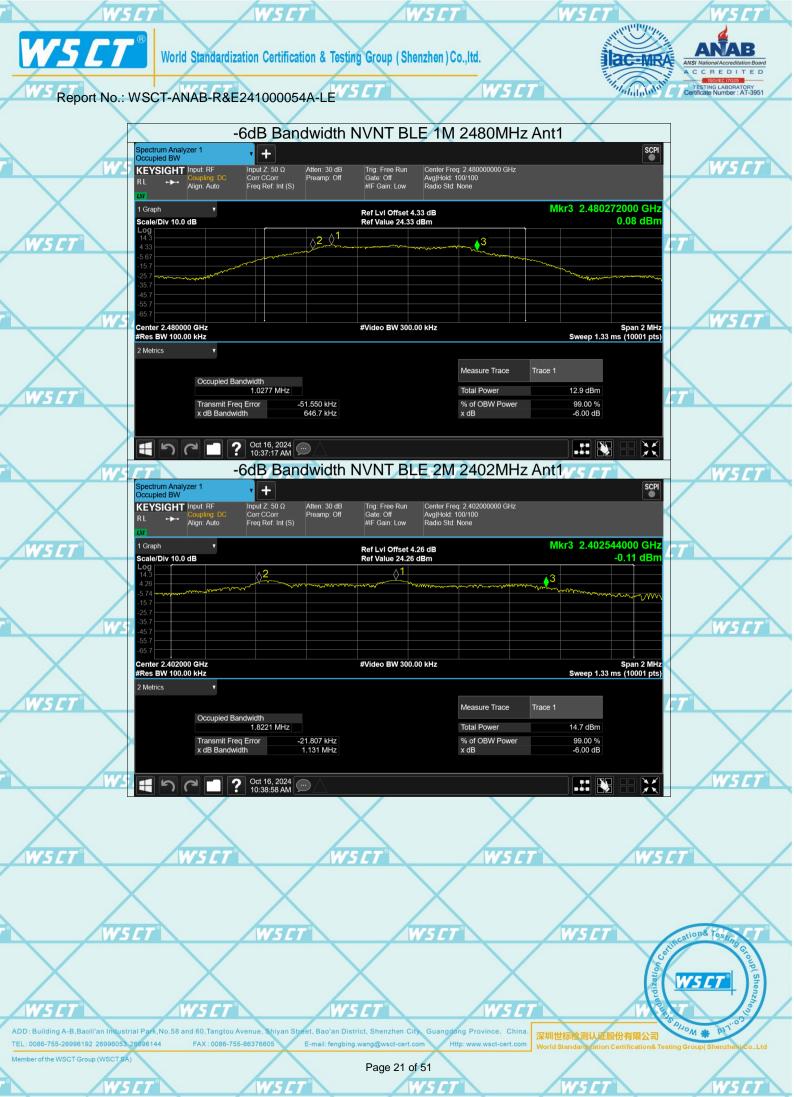
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W5CT

W5C1

W5 CT











W5 CT



Report No.: WSCT-ANAB-R&E241000054A-LE

6.5. Power Spectral Density

6.5.1. Test Specification

	WELT	T° WSCT° WSCT° WSCT
	Test Requirement:	FCC Part15 C Section 15.247 (e)
	Test Method:	KDB558074
W5 CT°	Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
\bigvee	Test Setup:	Spectrum Analyzer EUT
	Test Mode:	Refer to item 4.1
WSCT	Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
	Test Result:	PASS

WSCT

W5 CT

W5 CT

W5CT

WSET WSET

WSIT

IWS CT

WSFT

MSET

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W5CT° W5CT

W5 CT

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A C C R E D I T E D

W5 ET

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W5CT

6.5.2. Test data

W5 CT

W5 C

	Test channel	Power Spectral D	ensity (dBm/3kl	Hz)
-	rest chamilei	BLE 1M	Limit	Result
	Lowest	-7.51	8 dBm/3kHz	X
0	Middle	-7.69	8 dBm/3kHz	PASS
	Highest	-8.87	8 dBm/3kHz	

				W. Control of the con	
Power Spectral Density (dB			ensity (dBm/3kF	Hz)	WSCI
7	rest chamile	BLE 2M	Limit	Result	
	Lowest	-9.04	8 dBm/3kHz		
7	Middle	w-9.35	8 dBm/3kHz	PASS	
	Highest	-10.41	8 dBm/3kHz		

Test plots as follows: WSCT WSCT WSCT WSCT

WSET WSET WSET WSET WSET

WSCT WSCT WSCT WSCT

WSET WSET WSET WSET

WSCT WSCT WSCT WSCT WSCT

WSET WSET WSET WSET

WS CT WS CT WS CT WS CT

WSCT WSCT WSCT WSCT

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W5CT

W5CT

WSET WSET

WSET

WSCT







Report No.: WSCT-ANAB-R&E241000054A-LE

6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

6.	6.1. Test Specification	T WSCT WSCT W	V5 CT
	Test Requirement:	FCC Part15 C Section 15.247 (d)	
AVECT:	Test Method:	KDB558074	
WSET	Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).	VS CT
AWS ET	Test Setup:	Spectrum Analyzer EUT	VS CT
	Test Mode:	Refer to item 4.1	
WS CT	Test Procedure:	Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over	VS ET
	Test Result:	PASS	X

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1W5*CT*

WSET

IWS ET

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6.7. Radiated Spurious Emission Measurement

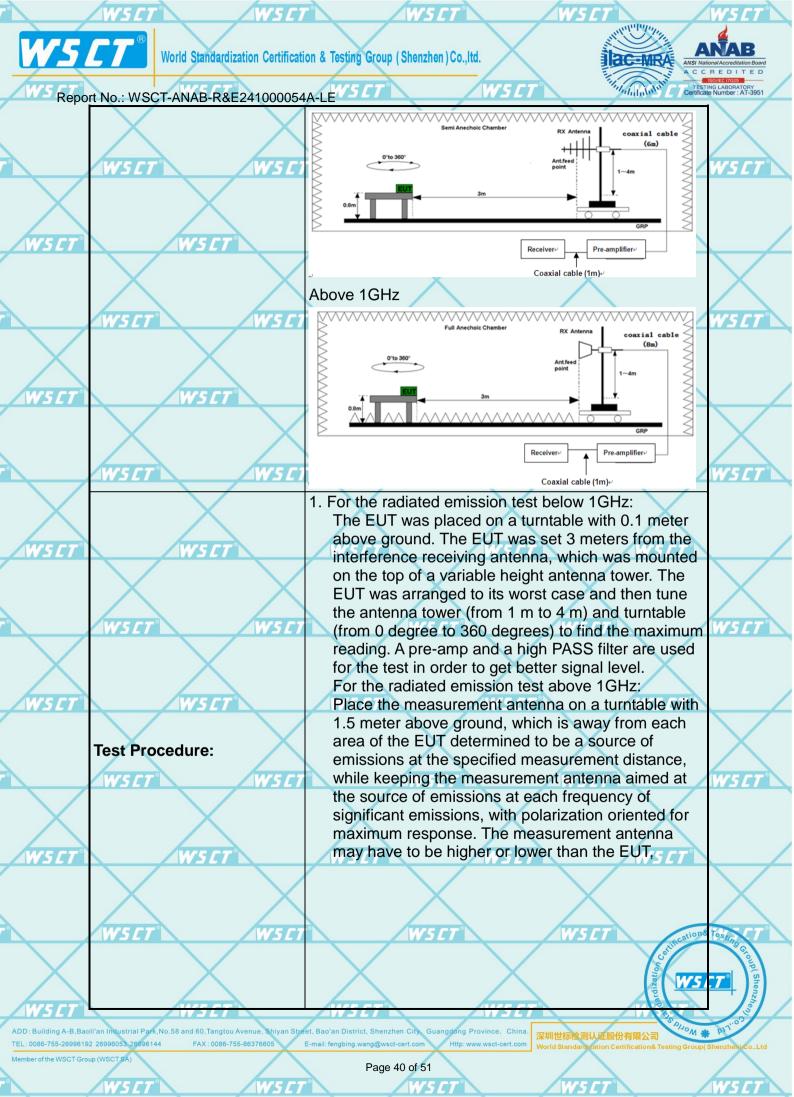
6.7.	1. Test S	pecification 55	
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6.	7.1. Test Specification 75.1.		W5 CT		W5	7	WSET
\times	Test Requirement:	FCC Part15	C Section	n 15.209		X	7
WSET	Test Method;	ANSI C63.10):2014	WSIT		WSCT	
AVP15/	Frequency Range:	9 kHz to 25 (GHz	- 11-13-1		/	
	Measurement Distance:	3 m	X		X		$\mathbb{I}X$
	Antenna Polarization: V5 [7]	Horizontal &	Vertical		W5	7	WSET
	Operation mode:	Refer to item	4.1				
		Frequency	Detector		VBW	Remark	_
W5CT	WSET	9kHz- 150kHz 150kHz-	Quasi-pea Quasi-pea		1kHz 30kHz	Quasi-peak Value Quasi-peak Value	
	Receiver Setup:	30MHz					
		30MHz-1GHz	Quasi-pea Peak	k 100KHz 1MHz	300KHz 3MHz	Quasi-peak Value Peak Value	1/\
	WS CT WS CT	Above 1GHz	Peak	1MHz	10Hz	Average Value	W5 CT
				Field Stre	ength	Measurement	
		Frequen	-	(microvolts		Distance (meters)	4
W5CT"	WSET	0.009-0.4		2400/F(F)	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	300	
		1.705-3		30	KI IZ)	30	
	\times	30-88		100	<u> </u>	3	
	./	88-216		150		3	
	Limit: WS CT	216-96 Above 9		200 500		3	W5ET°
		Above 9	00	300		3/	_
X	X		Fio	ld Strength	Measure	ment	
W5 CT	WSET	Frequency		ovolts/meter)	Distan (meter		
		Above 1GHz		500 5000	3	Average Peak	-
	\wedge	For radiated	omission				
$\overline{}$	WSET WSET	Tor radiated	WSI	S Delow 30	W5		W5LT°
\times	\times	Di	stance = 3m			Computer	
W5 ET	WSET	<u> </u>			Pre	-Amplifier	
	Test setup:	EUT	· ·	\forall \mid			
	X	 	Turn table	Щ	Г		X
	August August				- '	Receiver	

30MHz to 1GHz

Ground Plane

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	WSET* WSEI	depending on and staying a receiving the measuremen	the radiation pattern imed at the emission smaximum signal. The tantenna elevation sh	source for final all be that which	W5C
WSET	WSCT	antenna eleva restricted to a	e emissions. The mea ation for maximum em a range of heights of frou ound or reference grou	om 1 m to 4 m	
	WSET WSET	Read Level - 3. For measurem	ading: Antenna Factor Preamp Factor = Leven nent below 1GHz, If the easured by the peak o	el e emission level	W5C
WSET	WSET	level will be re measuremen detector and		e emission g the quasi-peak	
	WS CT WS CT	(1) Span shall emission b	ing spectrum analyzer wide enough to fully opeing measured; at 100 kHz for f < 1 GHz	capture the	WSI
WSET	WSET	Sweep = a max hold; (3) Set RBW :	auto; Detector function = 1 MHz, VBW= 3MHz leasurement.	= peak; Trace =	
	WS CT WS CT	duty cycle is r when duty cy	measurement: VBW = no less than 98 percer cle is less than 98 per transmission duration	nt. VBW ≥ 1/T, cent where T is	WSE
X		transmitter is	on and is transmitting level for the tested m	at its maximum	

Note: Freq. = Emission frequency in MHz Reading level (dB μ V) = Receiver reading Corr. Factor (dB) = Attenuation factor + Cable loss Level (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB) Limit (dB μ V) = Limit stated in standard Margin (dB) = Level (dB μ V) – Limits (dB μ V)

PASS

W5 CT

Test mode:

Test results:

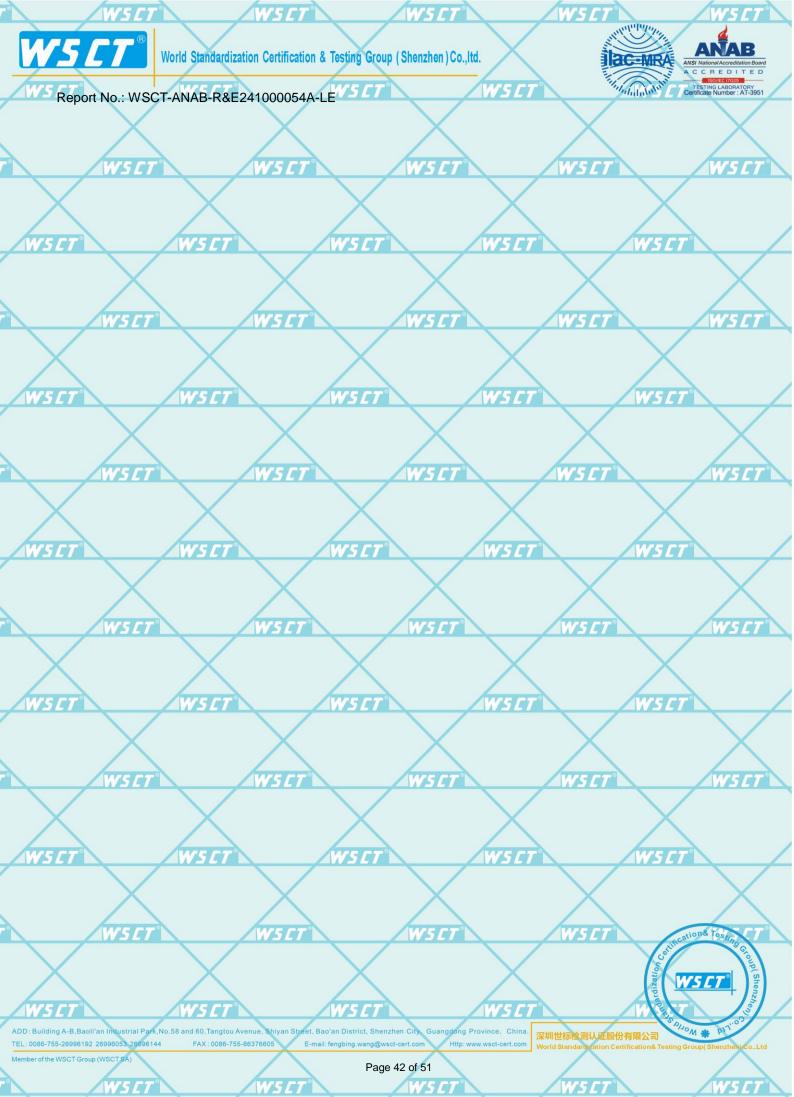
W5 ET

W5 ET

Refer to section 4.1 for details

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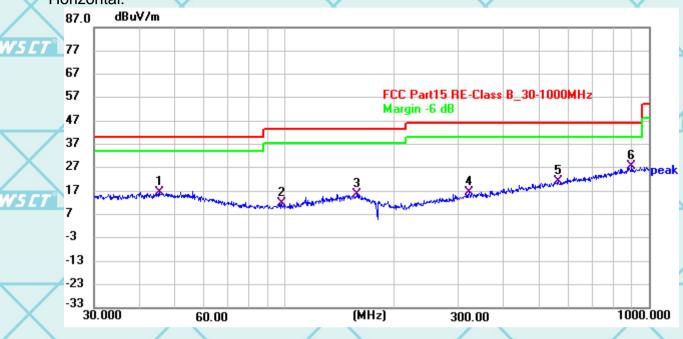
6.7.2. Test Data

Please refer to following diagram for individual
W5 C7

Below 1GHz

W5CT°

Horizontal:



W5ET°

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	
1	45.5948	35.37	-18.94	16.43	40.00	-23.57	QP	
2	98.7460	35.48	-23.60	11.88	43.50	-31.62	QP	
3	157.5588	35.16	-19.51	15.65	43.50	-27.85	QP	
4	321.6242	35.90	-19.52	16.38	46.00	-29.62	QP	
5	563.1559	36.13	-14.80	21.33	46.00	-24.67	QP	
6 *	896.9965	37.20	-9.76	27.44	46.00	-18.56	QP	

W5CT[®]

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AWSET

W5CT

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W5 CT

W5 CT

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W5CT°

WSIT

4W5CT

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W5 CT

W5 CT

W5 CT

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W5 CT

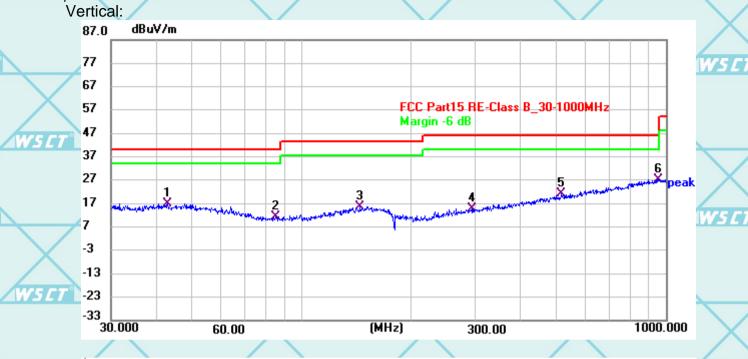
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WSC





	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	43.0127	35.61	-18.83	16.78	40.00	-23.22	QP	Ī
	2	85.0367	35.27	-23.90	11.37	40.00	-28.63	QP	Ī
	3	144.9688	35.64	-19.79	15.85	43.50	-27.65	QP	
	4	293.5985	35.32	-20.51	14.81	46.00	-31.19	QP	ſ
1	5	518.8374	36.51	-15.15	21.36	46.00	-24.64	QP	Ī
	6 *	955 4381	36 63	-9 27	27.36	46 00	-18 64	QP	Γ

Note1:

WS ET

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)

WSEI

WS CT

W5 ET

W5E1

W5 C1

W5C1

W5 C

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W5C1

Above 1GHz

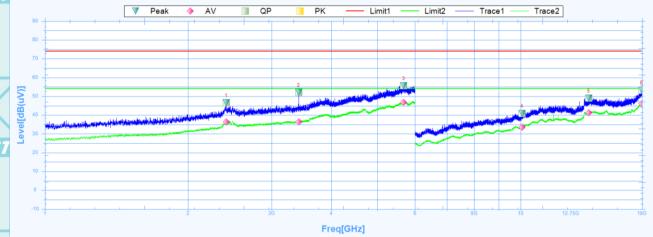
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental

Note 2: The spurious above 18G is noise only, do not show on the report.

W5 E

Low channel: 2402MHz

Horizontal:



	Sucou	ted Data Lis	•								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
4	1	2405.6250	46.53	27.28	19.25	74	-27.47	168.3	Horizontal	PK	Pass
	1	2405.6250	36.34	27.28	9.06	54	-17.66	168.3	Horizontal	AV	Pass
	2	3416.2500	52.05	28.45	23.6	74	-21.95	35.6	Horizontal	PK	Pass
	2	3416.2500	36.42	28.45	7.97	54	-17.58	35.6	Horizontal	AV	Pass
	3	5682.5000	55.66	32.29	23.37	74	-18.34	-0.1	Horizontal	PK	Pass
	3	5682.5000	46.75	32.29	14.46	54	-7.25	-0.1	Horizontal	AV	Pass
	4	10071.0000	40.92	12.56	28.36	74	-33.08	48.4	Horizontal	PK	Pass
	4	10071.0000	33.48	12.56	20.92	54	-20.52	48.4	Horizontal	AV	Pass
,	5	13906.5000	48.96	18.85	30.11	74	-25.04	220.5	Horizontal	PK	Pass
A	5	13906.5000	41.35	18.85	22.5	54	-12.65	220.5	Horizontal	AV	Pass
	6	17979.0000	53.28	23.78	29.5	74	-20.72	360.1	Horizontal	PK	Pass
	6	17979.0000	46.19	23.78	22.41	54	-7.81	360.1	Horizontal	AV	Pass

_	AWSLI	AW3L/	W3L/	WSL/	

W5 C1 W5 ET W5E1 W5 ET

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W5CT



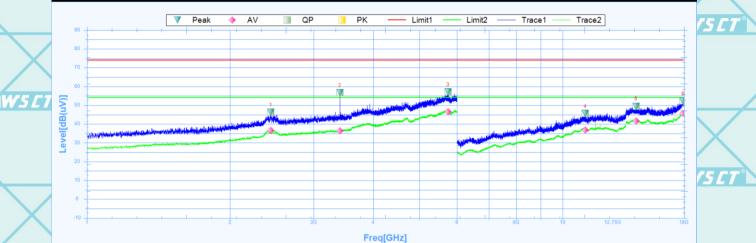
W5 CT



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W5 CT

Vertical:



W5E

W5 E

4	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2435.6250	46.26	27.38	18.88	74	-27.74	194.6	Vertical	PK	Pass
	1	2435.6250	36.56	27.38	9.18	54	-17.44	194.6	Vertical	AV	Pass
/	2	3404.3750	56.72	28.44	28.28	74	-17.28	194.6	Vertical	PK	Pass
	2	3404.3750	36.33	28.44	7.89	54	-17.67	194.6	Vertical	AV	Pass
	3	5745.6250	57.12	32.39	24.73	74	-16.88	309.4	Vertical	PK	Pass
7	3	5745.6250	46.58	32.39	14.19	54	-7.42	309.4	Vertical	AV	Pass
	4	11167.5000	45.6	15.78	29.82	74	-28.4	161.9	Vertical	PK	Pass
	4	11167.5000	36.93	15.78	21.15	54	-17.07	161.9	Vertical	AV	Pass
	5	14274.0000	49.53	18.84	30.69	74	-24.47	176.2	Vertical	PK	Pass
	5	14274.0000	41.71	18.84	22.87	54	-12.29	176.2	Vertical	AV	Pass
	6	17922.0000	52.21	23.4	28.81	74	-21.79	360.1	Vertical	PK	Pass
1	6	17922.0000	45.75	23.4	22.35	54	-8.25	360.1	Vertical	AV	Pass

W5 C1

W5 CI W5 C W5E

W5 CI

W5C1 W5 CI W5 E1 W5 []

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W5 CT

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W5 CT

W5C1



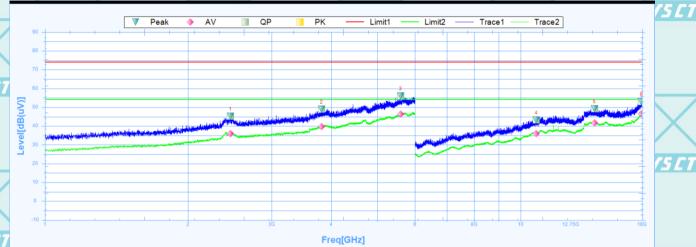


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W5 E1

Middle channel: 2440MHz

Horizontal:



	Suspu	ıted Data Lis	it									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	1
	1	2453.7500	45.27	27.44	17.83	74	-28.73	29.7	Horizontal	PK	Pass	1
/	1	2453.7500	36.06	27.44	8.62	54	-17.94	29.7	Horizontal	AV	Pass	
	2	3816.8750	48.98	29.26	19.72	74	-25.02	0	Horizontal	PK	Pass	
	2	3816.8750	39.68	29.26	10.42	54	-14.32	0	Horizontal	AV	Pass	
7	3	5597.5000	56.07	32.16	23.91	74	-17.93	0.5	Horizontal	PK	Pass	
	3	5597.5000	46.31	32.16	14.15	54	-7.69	0.5	Horizontal	AV	Pass	
	4	10794.0000	43.32	14.76	28.56	74	-30.68	115.2	Horizontal	PK	Pass	
	4	10794.0000	35.92	14.76	21.16	54	-18.08	115.2	Horizontal	AV	Pass	1
	5	14299.5000	49.26	18.82	30.44	74	-24.74	245.5	Horizontal	PK	Pass	
	5	14299.5000	41.74	18.82	22.92	54	-12.26	245.5	Horizontal	AV	Pass	2
1	6	17968.5000	53.06	23.71	29.35	74	-20.94	225.2	Horizontal	PK	Pass	
	6	17968.5000	46.48	23.71	22.77	54	-7.52	225.2	Horizontal	AV	Pass	

W5CT°	W5 ET	W5 CT	W5CT°	W5ET°	
	W5 ET	WSCT"	WSCT	WS CT	W5ET
			X		
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				S. Lill Series

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W5CT"





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W5 CT

Vertical:



W5 C

W5 E

	Susputed Data List											
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2441.8750	45.79	27.4	18.39	74	-28.21	0	Vertical	PK	Pass	
	1	2441.8750	35.68	27.4	8.28	54	-18.32	0	Vertical	AV	Pass	
/	2	3435.6250	51.17	28.46	22.71	74	-22.83	182.6	Vertical	PK	Pass	
	2	3435.6250	36.31	28.46	7.85	54	-17.69	182.6	Vertical	AV	Pass	
1	3	5789.3750	62.17	32.46	29.71	74	-11.83	134.8	Vertical	PK	Pass	
7	3	5789.3750	45.54	32.46	13.08	54	-8.46	134.8	Vertical	AV	Pass	
	4	9828.0000	40.82	11.97	28.85	74	-33.18	69.8	Vertical	PK	Pass	
	4	9828.0000	33.71	11.97	21.74	54	-20.29	69.8	Vertical	AV	Pass	
	5	13998.0000	49.15	19.11	30.04	74	-24.85	72.2	Vertical	PK	Pass	
	5	13998.0000	42.01	19.11	22.9	54	-11.99	72.2	Vertical	AV	Pass	
	6	17904.0000	53.05	23.29	29.76	74	-20.95	289.8	Vertical	PK	Pass	
/	6	17904.0000	45.75	23.29	22.46	54	-8.25	289.8	Vertical	AV	Pass	

W5 C W5 CI W5E

W5 CI

W5C1 W5 C1 W5 [7 W5 []

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W5C1

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W5ET°

W5 ET

W5 CT





Report No.: WSCT-ANAB-R&E241000054A-LE

High channel: 2480MHz

Horizontal:

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W5 CT



Susputed Data List Freq. Reading Factor Level Limit Margin Deg NO. Verdict **Polarity** Trace [MHz] [dB(uV)] [dB] [dB] [dB(uV)] [dB] [°] 2437.5000 74 -25.09 71.6 48.91 27.39 21.52 PK Pass Horizontal 71.6 2437.5000 36.87 27.39 9.48 54 -17.13 Horizontal ΑV Pass -26.25 3670.0000 47.75 28.91 18.84 74 167.3 PK Pass Horizontal Pass 3670.0000 38.37 28.91 9.46 54 -15.63 167.3 ΑV Horizontal 3 5798.7500 60.56 32.48 28.08 74 -13.44 130.2 PK Horizontal Pass 3 54 -8.39 130.2 5798.7500 45.61 32.48 13.13 ΑV Pass Horizontal 4 11425.5000 44.87 15.92 28.95 74 -29.13 158.3 Horizontal PK Pass 4 11425.5000 37.38 15.92 21.46 54 -16.62 158.3 ΑV Pass Horizontal 5 13939.5000 48.34 18.94 29.4 74 -25.66 116.5 Horizontal PΚ Pass 13939.5000 Pass 5 41.5 18.94 22.56 54 -12.5 116.5 ΑV Horizontal 6 17772.0000 53.07 74 -20.93 PK 22.44 30.63 263.5 Horizontal Pass

WS ET	" W5C	T WS CT	WSCT	" WSCT"

22.61

		W5 CT	W5 CT	WSCT	W5CT°	W5CT
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-8.95

263.5

Horizontal

W5CT"	W5CT*	W5CT°	WSCT	W5CT°

	W5CT°	W5 CT	WSET	W5ET°	acation& Testin
7					Carille Series

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深圳世标检测认证股份有限公司

Pass

ΑV

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

ac-MRA

Report No.: WSCT-ANAB-R&E241000054A-LE

Vertical:



L	Susputed Data List										
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2437.5000	45.8	27.39	18.41	74	-28.2	259	Vertical	PK	Pass
	1	2437.5000	36.61	27.39	9.22	54	-17.39	259	Vertical	AV	Pass
1	2	3446.2500	51.09	28.47	22.62	74	-22.91	163.4	Vertical	PK	Pass
	2	3446.2500	36.3	28.47	7.83	54	-17.7	163.4	Vertical	AV	Pass
	3	5970.0000	57.38	32.75	24.63	74	-16.62	-0.1	Vertical	PK	Pass
7	3	5970.0000	46.44	32.75	13.69	54	-7.56	-0.1	Vertical	AV	Pass
	4	9718.5000	41.14	11.67	29.47	74	-32.86	30.4	Vertical	PK	Pass
	4	9718.5000	33.55	11.67	21.88	54	-20.45	30.4	Vertical	AV	Pass
	5	12471.0000	45.35	16.46	28.89	74	-28.65	330.4	Vertical	PK	Pass
	5	12471.0000	37.74	16.46	21.28	54	-16.26	330.4	Vertical	AV	Pass
	6	17977.5000	53.64	23.77	29.87	74	-20.36	21.1	Vertical	PK	Pass
1	6	17977.5000	45.93	23.77	22.16	54	-8.07	21.1	Vertical	AV	Pass

Note:

- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
 - Data of measurement shown "-"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
 - Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.
 - 5. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

W5 ET

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