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# **TEST REPORT**

FCC ID: 2AXYP-OTW-930-L

**Product: True Wireless Earbuds** 

Model No.: OTW-930

Trade Mark: oraimo

Report No.: WSCT-A2LA-R&E240400019A-LE

Issued Date: 16 May 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:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd.
Building A-B, Baoshi Science & Technology Park, Baoshi Road,
Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-26996192

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**Note:** The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.

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# **Test Certification**

True Wireless Earbuds Product:

OTW-930 Model No.:

oraimo **Trade Mark:** 

ORAIMO TECHNOLOGY LIMITED **Applicant:** 

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

SHAN MEI STREET FOTAN NT HONGKONG

**ORAIMO TECHNOLOGY LIMITED** Manufacturer:

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

SHAN MEI STREET FOTAN NT HONGKONG

25 April 2024 to 15 May 2024 **Date of Test:** 

FCC CFR Title 47 Part 15 Subpart C Section 15.247 **Applicable** 

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.

Checked By: Tested By: ( Mo Peiyun) (Wang Xiang)

Approved By:

(Liu Fuxin)

Date:

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# 2. Test Result Summary

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1	Requirement	CFR 47 Section	Result
	Antenna requirement	§15.203/§15.247 (c)	PASS
	Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
7	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
	Power Spectral Density	§15.247 (e)	PASS
	Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
7	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

#### 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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# 3. **EUT Description**

Product:	True Wireless Earbuds
Model No.:	OTW-930
Trade Mark:	oraimo
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	FPC Antenna
Antenna Gain:	-1.55 dBi
NYZI GI	Charging Box: Model: OTW-930 Input:5V500mA
	Output: 5V200mA Capacity: 520mAh 3.85V,2.002Wh Charging Box Battery:
Rechargeable Li-Polymer Battery:	Li-ion Battery: 801444 Voltage: 3.85V
	Rated Capacity: 520mAh 2.002Wh Earphone Battery: Li-ion Battery: ZWD1054S3H
115141	Rated Capacity: 50mAh 0.193Wh
Remark:	N/A.

Operation Frequency each of channel

Operation	operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz	
Zug 191	2404MHz	117	2424MHz	21	2444MHz	31	2464MHz	
	X		X		$\sim$			
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz	
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz	
Remark:	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
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

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
		1	1	1	/ /

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. 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 Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group(Shenzhen) CO., LTD

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

#### 5.2. ACCREDITATIONS

**CNAS - Registration Number: L3732** 

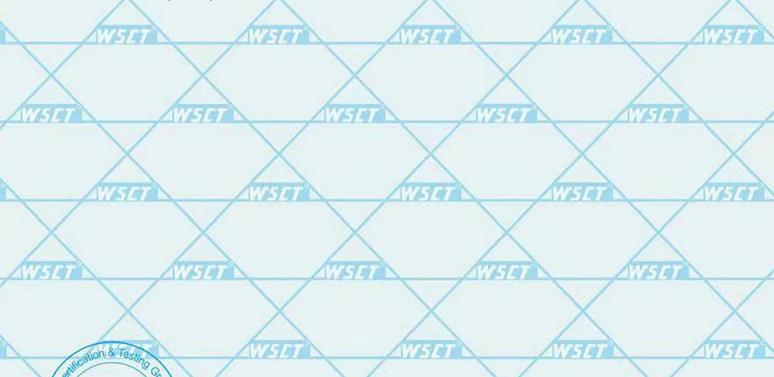
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

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.

A2LA - Certificate Number: 5768.01

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number: 5768.01



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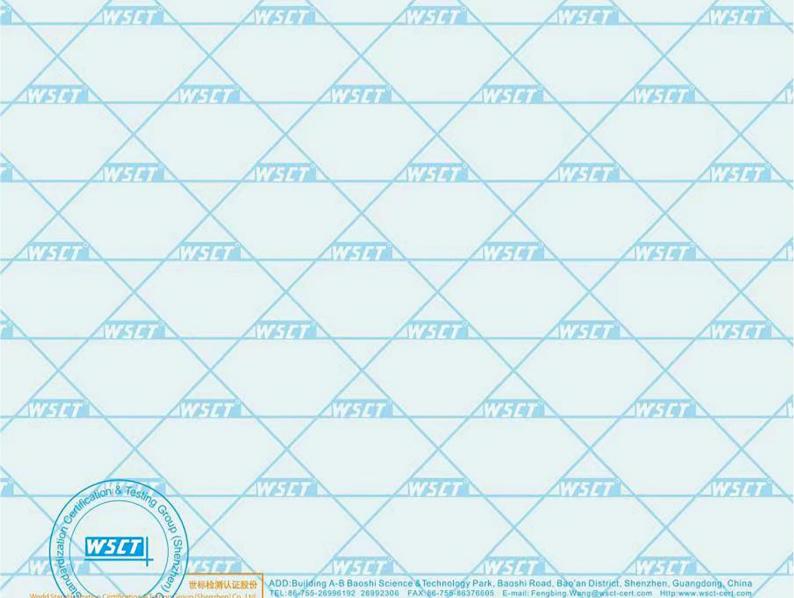
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# 5.3. Measurement Uncertainty

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 %.

	oormac	X	
2	No.	Item	MU
		Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3756	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
1	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature	±0.5°C
	7 X	Humidity	±2.0%



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### **5.4.MEASUREMENT INSTRUMENTS**

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	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	Z
(	Test software		EZ-EMC	CON-03A	-	Χ-	
	Test software	6	MTS8310	A LAND	- 4	-	
4	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	7
(	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
7	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	7
,	Pre-Amplifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	-
	Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2023	11/04/2024	
7	9*6*6 Anechoic		AT A STATE OF THE	(VZTE)	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	1
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	1
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	2
1	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
1	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
r,	Antenna Tower	ccs	/5/ N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA300 0	-	11/05/2023	11/04/2024	\
	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	2
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
(	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
7	Power sensor	Anritsu	MX248XD	(123 B)	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	-



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# 6. Test Results and Measurement Data

# 6.1. Antenna requirement

#### **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. The use of a 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 FPC Antenna. it meets the standards, and the best case gain of the antenna is-1.55dBi.





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# 6.2. Conducted Output Power

# 6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04.</li> <li>Set spectrum analyzer as following:         <ul> <li>a) Set the RBW ≥ DTS bandwidth.</li> <li>b) Set VBW ≥ 3 x RBW.</li> <li>c) Set span ≥ 3 x RBW</li> <li>d) Sweep time = auto couple.</li> <li>e) Detector = peak.</li> <li>f) Trace mode = max hold.</li> <li>g) Allow trace to fully stabilize.</li> <li>h) Use peak marker function to determine the peak amplitude level.</li> </ul> </li> </ol>
Test Result:	PASS



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### 6.2.2. Test Data

BLE 1M				
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
	Lowest	-1.16	30.00	PASS
	Middle	-0.59	30.00	PASS
	Highest	-1.16	30.00	PASS

BLE 2M					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest -1.21		30.00	PASS		
Middle	-0.58	30.00	PASS		
Highest	-1.19	30.00	PASS		

Test plots as follows:

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NIST OF THE PARTY	WHITE	WHI	WEIGH	WHITE	
	$\times$		$\langle \ \ \rangle$	<b>X</b>	W-519 A
VV-14	NV-5101	WETH	W/51/01	Wiston	
	$\times$				WSEE
WHI	WETER	WEIGH	NV-ST 41	WATER	
	$\times$			711	WATER
diffeedit	& Testing G				

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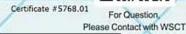


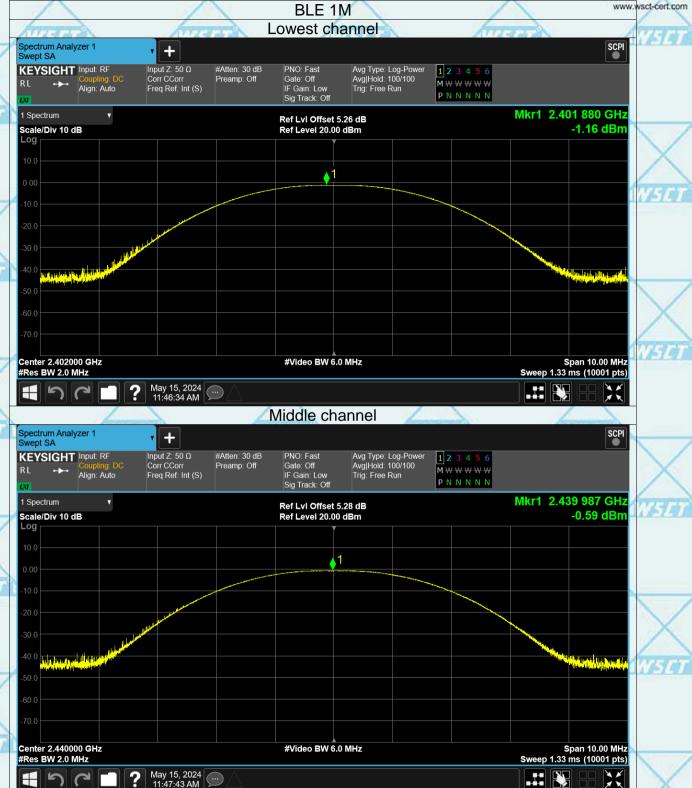






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Center 2.480000 GHz #Res BW 2.0 MHz

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May 15, 2024 11:45:08 AM

Span 10.00 MHz Sweep 1.33 ms (10001 pts)

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#Video BW 6.0 MHz

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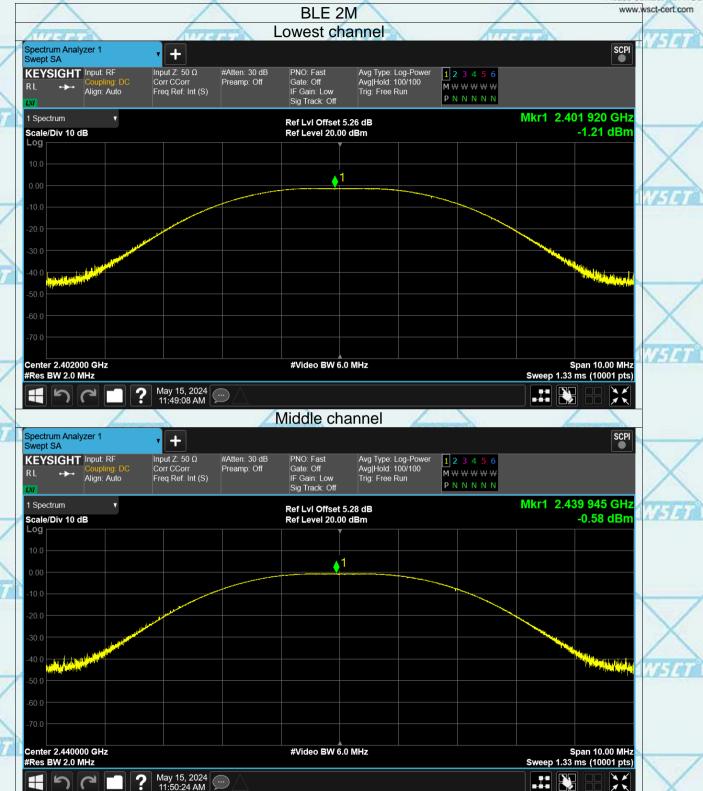






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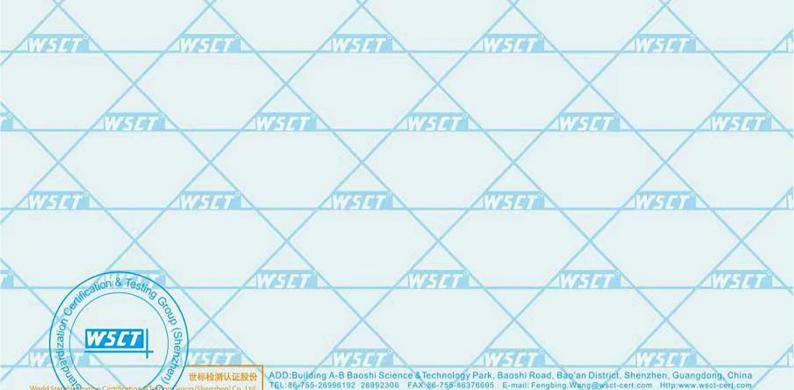
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# 6.3. Emission Bandwidth

# 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS



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#### 6.3.2. Test data

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_		1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		44 000
	Test channel	6dB Emission I		
	rest charmer	BT LE mode	Limit	Result
	Lowest	0.656	>500k	N/SI II
	Middle	0.655	>500k	PASS
	Highest	0.654	>500k	

### BLE 2M

And A St. St. Married St.		A Maria Company of the Company of th	THE RESERVE TO SERVE THE PARTY OF THE PARTY	
Test channel	6dB Emission Bandwidth (kHz)			
rest channel	BT LE mode	Limit	Result	
Lowest	1.112	>500k	WSET	
Middle	1.128	>500k	PASS	
Highest	1.12	>500k		

Test plots as follows:

NIST OF THE PARTY	WE TO	WHAT	WEIGH	WESTER	,
	TO NY Z			NY 51 4	
11/5/19/	W/51897	WATER	W5101	116-19	
				STORE WEST	
AVESTOT	WATER	WETER .	W/S/47	VI-TO	
scation & 9				7191	

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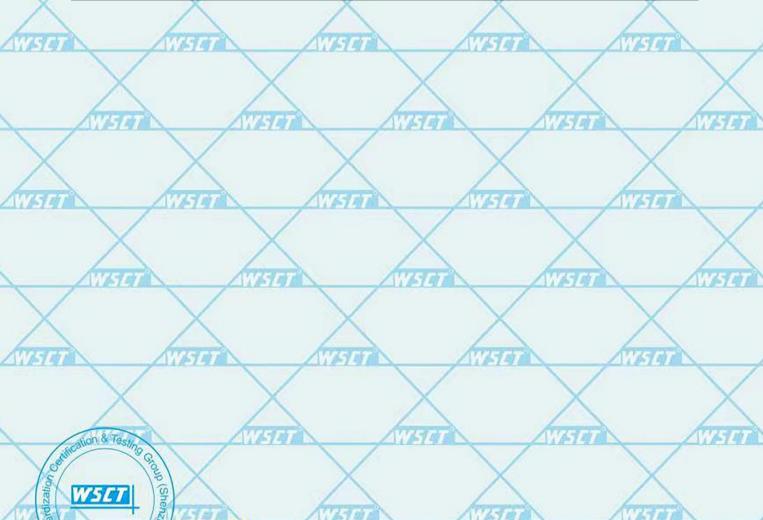
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# 6.4. Power Spectral Density

# 6.4.1. Test Specification

Z 1 - 1 - 1 - 2 - 2 - 1 - 2 - 2 - 2 - 2 -	F798 / F798
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The testing follows Measurement Procedure 10.2         Method PKPSD of FCC KDB Publication No.558074         D01 DTS Meas. Guidance v04</li> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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)</li> <li>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.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS



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#### 6.4.2. Test data

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Test channel	Power Spectral Density (dBm/3kHz)		
rest channel	BLE 1M	Limit	Result
Lowest	-16.68	8 dBm/3kHz	
Middle	-16.06	8 dBm/3kHz	PASS
Highest	-16.68	8 dBm/3kHz	

Test channel	Power Spectral Density (dBm/3kHz)		
rest channel	BLE 2M	Limit	Result
Lowest	-19.74	8 dBm/3kHz	
Middle	-19.16	8 dBm/3kHz	PASS
Highest	-19.67	8 dBm/3kHz	

Test plots as follows:

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	$\langle \ \rangle$		$\langle                                    $	1941	WEIGH
W-STATE OF THE STATE OF THE STA	WSI	WEIGH	N/5191	Wiston	
	$\langle                                    $			5101	W-Star
AVE 141	WETAT	NIE I I	W5141	NV-514	
incation &				5101	WSI

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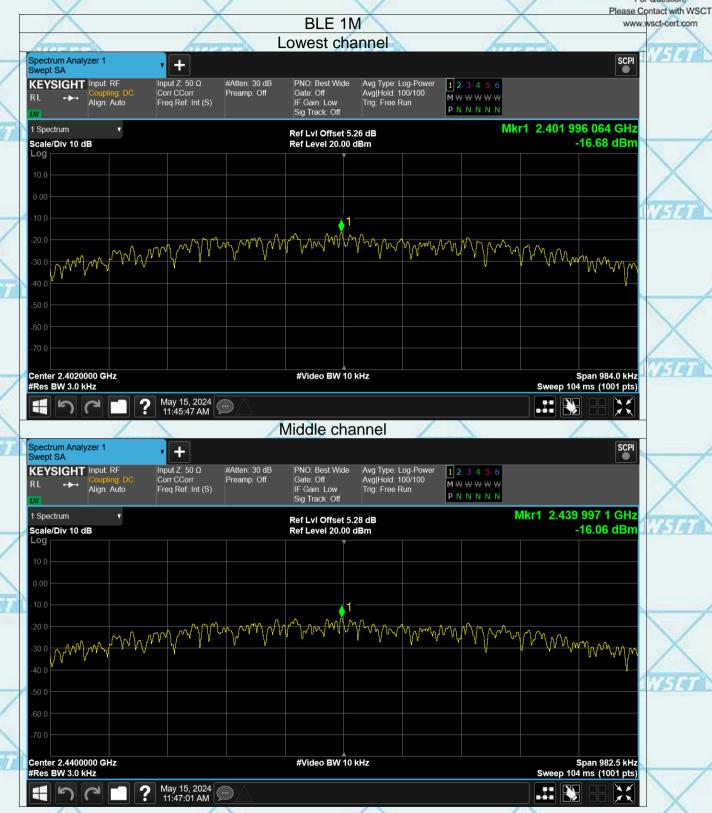






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# 6.5. Conducted Band Edge and Spurious Emission Measurement

### 6.5.1. Test Specification FCC Part15 C Section 15.247 (d) **Test Requirement:** KDB558074 **Test Method:** 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 Limit: 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). Test Setup: **EUT** Spectrum Analyzer Test Mode: Refer to item 4.1 1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. 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 Test Procedure:

- Test Procedure:
- 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 a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 4. Measure and record the results in the test report.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Test Result: PASS



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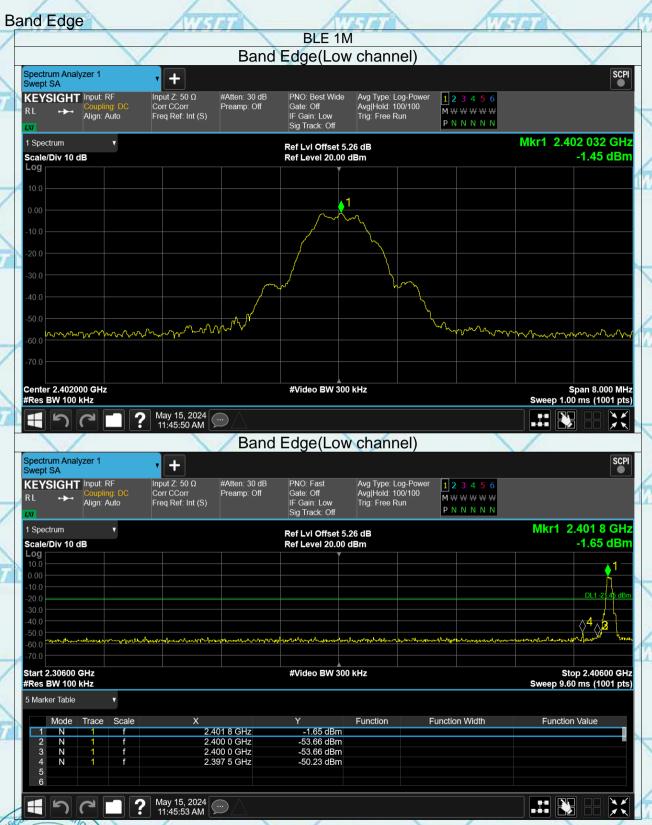




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#### 6.5.2. Test Data





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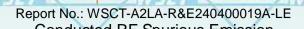
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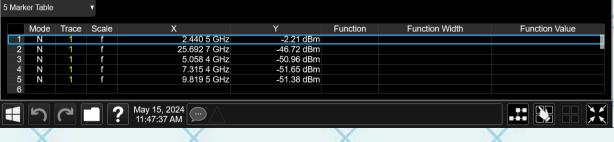




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Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com Middle channel SCPI Spectrum Analyzer 1 + Input Z: 50 Ω #Atten: 30 dB Preamp: Off PNO: Best Wide Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr \_\_\_\_ M ₩ ₩ ₩ ₩ IF Gain: Low Sig Track: Off Align: Auto Freq Ref: Int (S) Trig: Free Run 1 Spectrum Mkr1 2.440 022 5 GHz Ref LvI Offset 5.28 dB Ref Level 20.00 dBm -1.02 dBm Scale/Div 10 dB <u>≬</u>1 Center 2.4400000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 1.00 ms (1001 pts) #Video BW 300 kHz May 15, 2024 11:47:06 AM 噩 Middle channel Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 10/10 Input Z: 50 Ω #Atten: 30 dB PNO: Fast KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Preamp: Off Gate: Off IF Gain: Low Sig Track: Off M ₩ ₩ ₩ ₩ Align: Auto Trig: Free Run PNNNNN Mkr1 2.440 5 GHz Ref LvI Offset 5.28 dB -2.21 dBm Scale/Div 10 dB Ref Level 20.00 dBm DL1 -21.02 dE **⊘**5 **⊘**4 Start 30 MHz #Video BW 300 kHz Stop 26.50 GHz #Res BW 100 kHz Sweep ~2.53 s (30001 pts)





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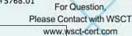






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May 15, 2024 11:49:02 AM

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Spectrum Analyzer 1

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Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com Middle channel SCPI PNO: Best Wide Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 1 2 3 4 5 6 \_\_\_\_ M ₩ ₩ ₩ ₩ Trig: Free Run







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#### **Conducted Emission** 6.6.

Test Requirement: FCC Part15 C Section 15.207  Test Method: ANSI C63.10:2014	X
Tost Mothod: ANSI 063 10:2014	
ANSI Gos. 10.2014	WHITE
Frequency Range: 150 kHz to 30 MHz	
Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto	
	verage 6 to 46* 46 50
Reference Plane	
40cm 80cm LISN Filter AC	power
Test Setup:  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	
Test Mode: Refer to item 4.1	X
1. The E.U.T is connected to an adapter through impedance stabilization network (L.I.S provides a 50ohm/50uH coupling impedance measuring equipment.	.N.). This
Test Procedure:  2. The peripheral devices are also connected power through a LISN that provides a 50 coupling impedance with 50ohm termination refer to the block diagram of the test photographs).  3. Both sides of A.C. line are checked for	on. (Please setup and
conducted interference. In order to find the emission, the relative positions of equipmer the interface cables must be changed acco  ANSI C63.10:2014 on conducted measurer	e maximum nt and all of rding to
Test Result: PASS	

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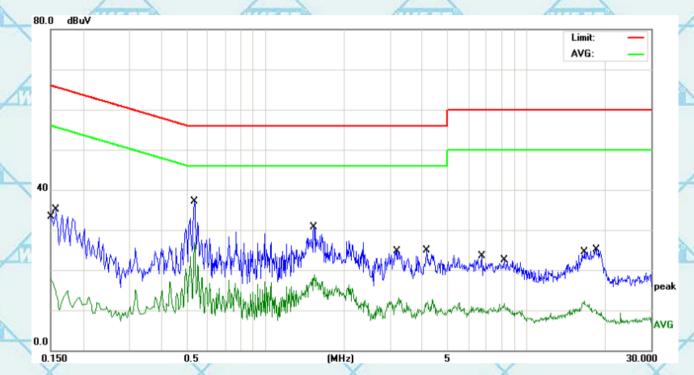
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6.6.2. Test data

# Please refer to following diagram for individual

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



					,				
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
7			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1500	7.48	10.45	17.93	55.99	-38.06	AVG
4	2		0.1580	24.64	10.45	35.09	65.56	-30.47	QP
1	3	*	0.5340	26.51	10.52	37.03	56.00	-18.97	QP /
	4		0.5340	16.37	10.52	26.89	46.00	-19.11	AVG
	5		1.5300	20.01	10.63	30.64	56.00	-25.36	QP
	6		1.5420	8.25	10.64	18.89	46.00	-27.11	AVG
7	7		3.2380	2.30	10.72	13.02	46.00	-32.98	AVG
	8		4.1380	14.15	10.73	24.88	56.00	-31.12	QP
6	9		6.7660	12.69	10.77	23.46	60.00	-36.54	QP
	10		8.2340	0.81	10.80	11.61	50.00	-38.39	AVG
	11		16.6299	1.15	11.15	12.30	50.00	-37.70	AVG
	12		18.4460	14.08	11.10	25.18	60.00	-34.82	QP

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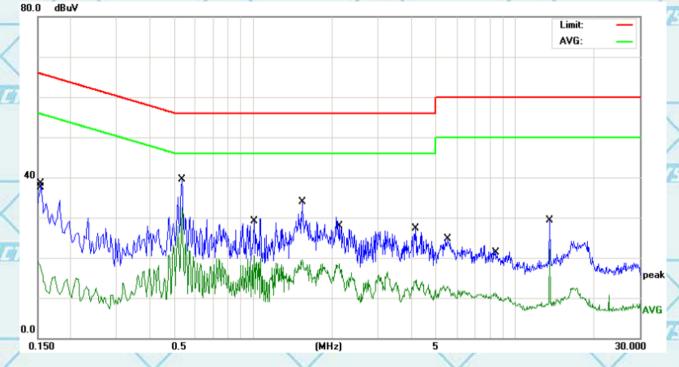




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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
1			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1500	8.68	10.45	19.13	55.99	-36.86	AVG
	2		0.1539	27.97	10.45	38.42	65.78	-27.36	QP
	3		0.5340	29.06	10.52	39.58	56.00	-16.42	QP
	4	*	0.5340	21.91	10.52	32.43	46.00	-13.57	AVG
	5		1.0100	9.96	10.55	20.51	46.00	-25.49	AVG
	6		1.5420	23.28	10.64	33.92	56.00	-22.08	QP
1	7		2.1340	7.78	10.71	18.49	46.00	-27.51	AVG
	8		4.1579	16.48	10.73	27.21	56.00	-28.79	QP
	9		4.2140	3.79	10.73	14.52	46.00	-31.48	AVG
	10		5.5180	13.91	10.75	24.66	60.00	-35.34	QP
	11		8.3820	0.59	10.80	11.39	50.00	-38.61	AVG
	12		13.5620	18.18	11.09	29.27	60.00	-30.73	QP
	- 0			-					

#### Note:

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Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = Antenna 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 $\mu$ V) – Limits (dB $\mu$ V)

Q.P. =Quasi-Peak AVG =average

It is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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# **6.7. Radiated Spurious Emission Measurement**

#### 6.7.1. Test Specification

.7.1. Test 5	pecification	\/		1			
Test Requ	irement:	FCC Part15	C Section	15.209			X
Test Meth	od:	ANSI C63.10	):2014	AVETE		1	494
Frequency	/ Range:	9 kHz to 25 (	GHz			/	
Measurem	ent Distance:	3 m					
Antenna F	olarization: V5///	Horizontal &	Vertical		AVIS	11	/
Operation	mode:	Refer to item	4.1				$\vee$
		Frequency	Detector	RBW	VBW	Re	mark
	WHIT	9kHz- 150kHz 150kHz-	Quasi-peal	200Hz	1kHz		eak Value
Receiver S	Receiver Setup:		Quasi-peal	9kHz	30kHz	Quasi-p	eak Value
X	X	30MHz-1GHz	Quasi-peal	100KHz	300KHz	Quasi-p	eak Value
		Above 1GHz	Peak	1MHz	3MHz		Value
AVSET	17779	7,5070 10112	Peak	1MHz	10Hz	Averag	ge Value
		Fraguency		Field Stre	ength	Measurement	
		Frequency		(microvolts/meter)		Distance (meters)	
	A	0.009-0.490		2400/F(K		- 400	00
	17474	0.490-1.7		24000/F(I	KHZ)		30
		1.705-3 30-88		30 100		30	
X	X	88-216		150		3	
Limit:		216-96		200			3
AWSET	NIFT #	Above 9	60	500	1169	THE PARTY	3
				\ /			
	X	X	Fiel	d Strength	Measurer	ment	X
		Frequency		volts/meter)	Distan		Detector
	AVISET .	111-14-6	(	AUGUS	(meter		<b>1577</b>
\ /		Above 1GH	2	500	3	/	Average Peak
X	X		X	3000	3		reak
A1133	ATT TO	For radiated	emissions	s below 30	MHz		
CUE 19A	1019	Di	stance = 3m			Computer	7
	X		<b></b> /		Pre -	Amplifier	
Test setup	HYS-14	EUT		$\gamma $ [			3
/	V		Turn table		Г		

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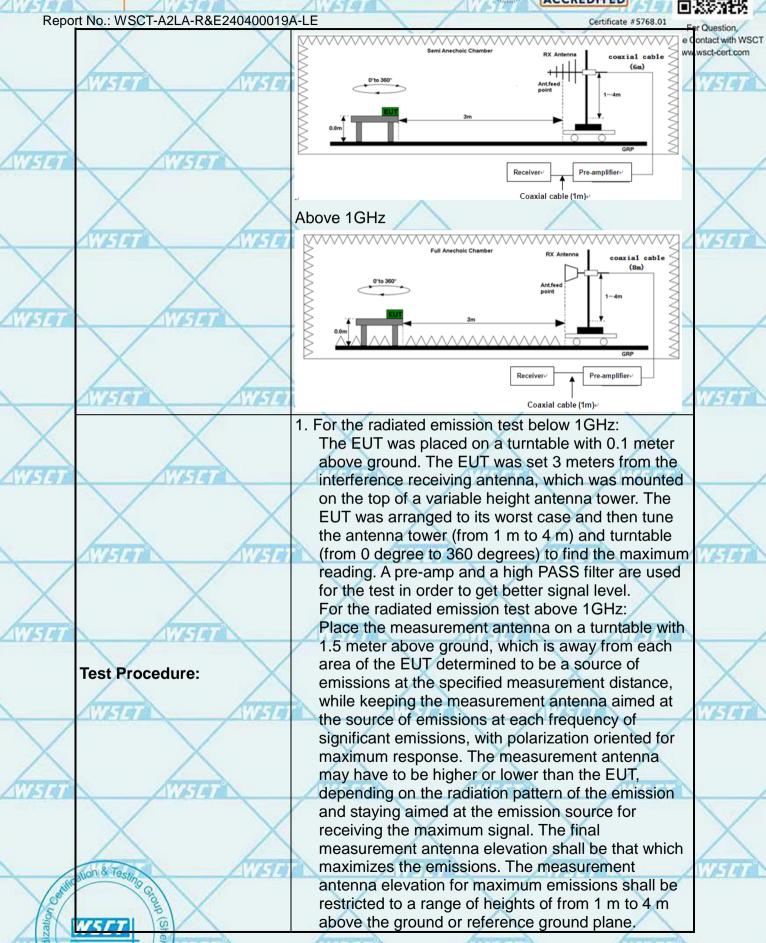
标检斯认证股份 Shenzhen) Co., Ltd. Ground Plane

30MHz to 1GHz









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Report No.: WS	SCT-A2LA-R&E240400019	A-LE		Certificate #5	768.01 For Question
X	X		eading: Antenna I - Preamp Factor	Factor + Cable Lor r = Level	OSSPHase Contact with WS www.wsct-cert.com
1749	TA NETA		1 Ab I All All Co.	Hz, If the emission peak detector is	F 1 40 1 40 1 40 1
X	X	level will be	reported. Other	nit, the peak emiss wise, the emission ed using the quas	1
1175191	AV-SET	detector an	CPS1.7.7.27.00E.306x	sa doing the quae	pour
X		4. Use the follo (1) Span sh	wing spectrum a	nalyzer settings: to fully capture the d;	
A17-14	11/4-14	(2) Set RBV	V=100 kHz for f <	< 1 GHz; VBW ≥F	RBW;
	A COLUMN TO THE PARTY OF THE PA	Sweep = max hole (3) Set RBV	= auto; Detector f d; V = 1 MHz, VBW	unction = peak; T	
11013	111111111111111111111111111111111111111		measurement.	VDW 4011=k	734
X	$\times$		V	VBW = 10 Hz, wh 3 percent. VBW ≥	V
Anna	A 1000	when duty	cycle is less than	98 percent where	e T is
11575		the minimu transmitter	m transmission d is on and is trans	luration over whic smitting at its max ested mode of ope	h the imum
Test m	ode:	Refer to sectio	n 4.1 for details	1	300
Test re	esults:	PASS			
Reading le Corr. Facto	. = Emission frequency in MHz evel (dBµV) = Receiver reading or (dB) = Attenuation factor + 0	) Cable loss	VEI 91	WESTER	17614
Limit (dBµ\	iV) = Reading level (dBμV) + C V) = Limit stated in standard β) = Level (dBμV) – Limits (dΒμ		X		X



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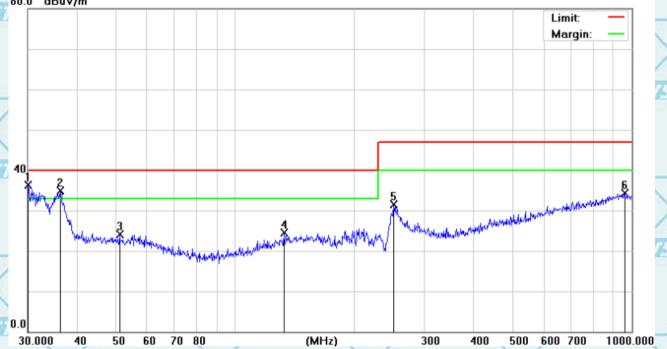
#### 6.7.2. Test Data

Please refer to following diagram for individual

Below 1GHz

(the worst case)





\	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	141
<b>y</b> ,			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	30.0000	38.84	-2.60	36.24	40.00	-3.76	QP
	2	KI	36.2541	36.99	-1.99	35.00	40.00	-5.00	QP
	3		51.1209	26.32	-2.21	24.11	40.00	-15.89	QP /
1	4	-	132.6850	27.25	-2.82	24.43	40.00	-15.57	QP
1	5	4	251.1804	35.37	-3.96	31.41	47.00	-15.59	QP
7	6	(	958.7943	26.07	8.20	34.27	47.00	-12.73	QP

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600 700

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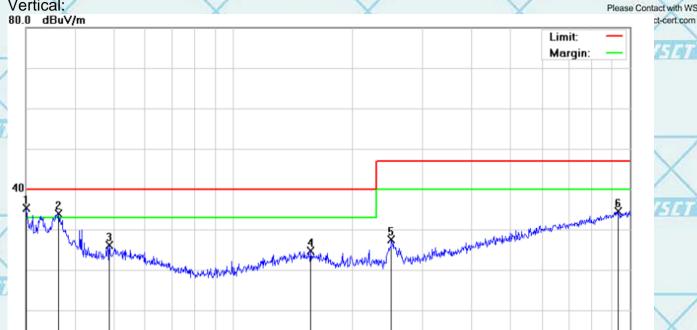


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							Date of Sales	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	191
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	30.1054	37.90	-2.60	35.30	40.00	-4.70	QP
2	K	36.2541	35.82	-1.99	33.83	40.00	-6.17	QP
3		48.6719	28.15	-2.06	26.09	40.00	-13.91	QP
4		156.4578	26.30	-1.68	24.62	40.00	-15.38	QP
5	1	250.3012	31.55	-3.97	27.58	47.00	-19.42	QP
6		932.2715	26.51	7.96	34.47	47.00	-12.53	QP

(MHz)

#### Note1:

0.0 30.000

Freq. = Emission frequency in MHz

Reading level  $(dB\mu V)$  = 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 $\mu$ V) – Limits (dB $\mu$ V)

70 80



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#### **Above 1GHz**

	Freq. (MHz)	Low channel: 2402MHz								
4		Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
		H/V	PK	AV	PK	AV	PK	AV		
	4804	V	59.32	41.23	74	54	-14.68	-12.77		
X.	7206	\ \ \	59.57	39.33	74	54	-14.43	-14.67		
-	4804	TETAME	59.35	40.65	74	54	-14.65	-13.35		
	7206	Н	58.16	39.16	74	54	-15.84	-14.84		

	Eroa	Middle channel: 2440MHz								
_	Freq. (MHz)	Ant.Pol	Emission L	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
	(IVIIIZ)	H/V	PK	AV	PK	AV	PK	AV		
	4880	V	58.55	39.49	74	54	-15.45	-14.51		
	7320		58.11	40.54	74	54	-15.89	-13.46		
	4880	WSHT	58.27	39.25	74	54	-15.73	-14.75		
	7320	H	59.48	40.48	74	54	-14.52	-13.52		

	Eroa	High channel: 2480 MHz								
À	Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
	(IVI□Z)	H/V	PK	AV	PK	AV	PK	AV		
	4960	V	60.15	40.44	74	54	-13.85	-13.56		
	7440	V	59.48	39.37	74	54	-14.52	-14.63		
X	4960		59.72	39.41	74	54	-14.28	-14.59		
Ц	7440		59.20	40.20	74	54	-14.80	-13.80		

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- Emission Level= Reading Level+ Probe Factor +Cable Loss.
   Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Certificate #5768.01

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#### **Restricted Bands Requirements**

Test result for GFSK Mode (the worst case)

1 est lesuit	IOI OI SIN IVI	oue (inc	Worst case	A RESERVED		111129	nt all
Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
	ATATAR		Low Cha	nnel	ATZTE		1025
2390	68.67	-8.73	59.94	74	-14.06	H	PK
2390	51.53	-8.73	42.80	54	-11.20	нХ	AV
2390	69.09	-8.73	60.36	74	-13.64	V	PK
2390	49.14	-8.73	40.41	54	-13.59	V	AV
			High Cha	nnel			
2483.5	68.57	-8.17	60.40	74	-13.60	Н	PK
2483.5	48.17	-8.17	40.00	54	-14.00	H	AV
2483.5	68.35	-8.17	60.18	74	-13.82	V	PK
2483.5	45.15	-8.17	36.98	54	-17.02	V	AV

\*\*\*\*\*END OF REPORT\*\*\*\*\* Catoup (Shenz)

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