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# TEST REPORT

FCC ID: 2AXYP-OSW-803N

**Product: Smart Watch** 

Model No.: OSW-803N

Trade Mark: oraimo

Report No.: WSCT-A2LA-R&E240300012A-LE

Issued Date: 17 April 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 FAX: +86-755-86376605

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Certificate #5768.01

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#### Report No.: WSCT-A2LA-R&E240300012A-LE

### 1. Test Certification

Product: Smart Watch

Model No.: OSW-803N

Trade Mark: oraim

Applicant: ORAIMO TECHNOLOGY LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer: ORAIMO TECHNOLOGY LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 02 April 2024 to 16 April 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.

Tested By:

(Wang Xiang)

Checked By:

(Mo Peiyun)

Approved By:

(Liu Fuxin)

Date:

April, 202

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

Product:	Smart Watch
Model No.:	OSW-803N
Trade Mark:	oraimo
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Wire Antenna
Antenna Gain:	-1.61 dBi
Rechargeable Li-Polymer Battery:	Li-ion Battery : 552321V Rated Voltage: 3.8V Rated Capacity: 300mAh 1.140Wh
Remark:	N/A.

Operation Frequency each of channel

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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
AVIGA	2404MHz	W11_7	2424MHz	21	2444MHz	31	2464MHz
			\/		\/		
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark:	Channel 0, 1	9 & 39 ha	ave been tes	sted.	11674		











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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.
- 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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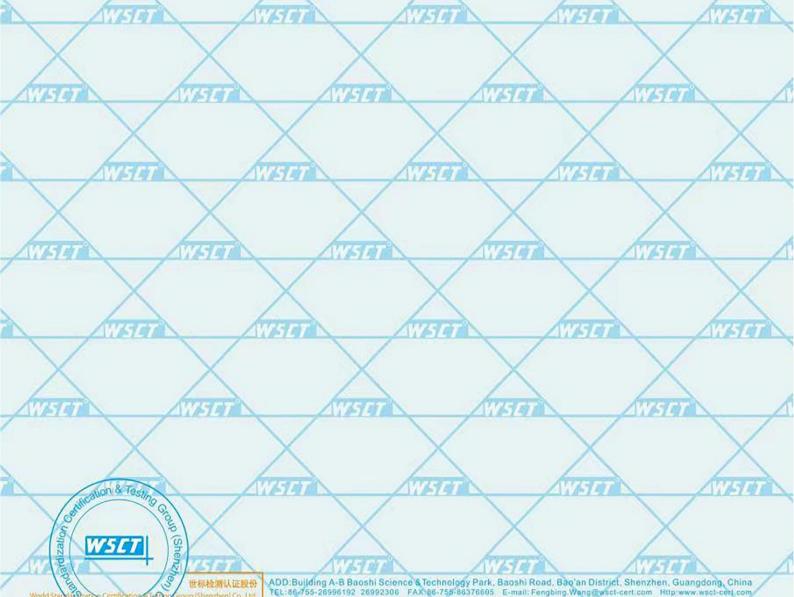
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#### **5.3. Measurement Uncertainty**

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	
1	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	31/5/	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
/	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature	±0.5°C
	7	Humidity	±2.0%



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# **5.4.MEASUREMENT INSTRUMENTS**

		LIVI INOTICOL					
/	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
ý	Test software	4	EZ-EMC	CON-03A		6144	l
	Test software	$\sim$	MTS8310	-	$\vee$	-	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	/
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	Æ
/	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
4	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	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	/
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	1
1	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
4	Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2023	11/04/2024	
	9*6*6 Anechoic	<del>-</del> ×	- X		11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	- /	11/05/2023	11/04/2024	/
/	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	
4	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	1 100
1	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	
1	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
4	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
	Power sensor	Anritsu	MX248XD		11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	1
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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:

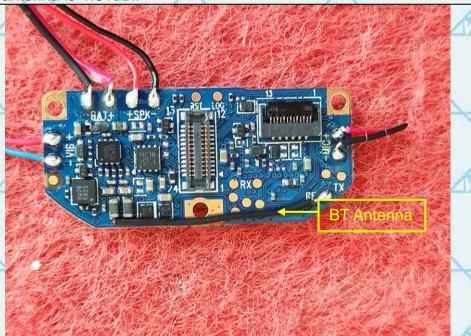
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Wire Antenna. it meets the standards, and the best case gain of the antenna is-1.61dBi.





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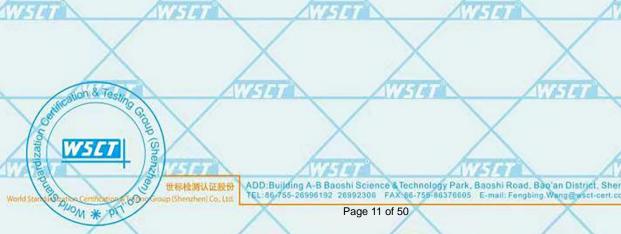
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### 6.2. Conducted Output Power

# 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> </ul> </li> </ol>
Test Result:	h) Use peak marker function to determine the peak amplitude level.  PASS











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#### 6.2.2. Test Data

BLE 1M				
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
	Lowest	-1.89	30.00	PASS
	Middle	-1.31	30.00	PASS
	Highest	-1.51	30.00	PASS

	ATTITUTE		7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -		
BLE 2M					
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	
	Lowest	-1.67	30.00	PASS	
	Middle	-1.12	30.00	PASS	
	Highest	-1.41	30.00	PASS	

Test plots as follows:

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	741			140	WEIR
WATER OF THE PARTY.	Wiston	WESTER	W65191	W-514T	
	TO AVE				WESTER
AVE 141	WASTER	WEIGH	Wester	WETA	
	$\times$				11/1/1
wification &	ong				

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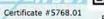


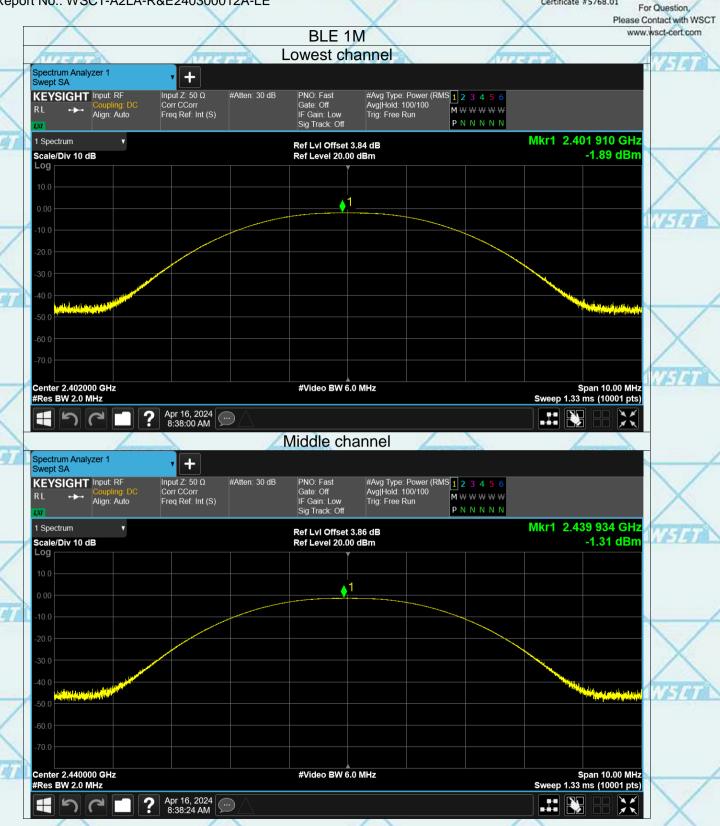






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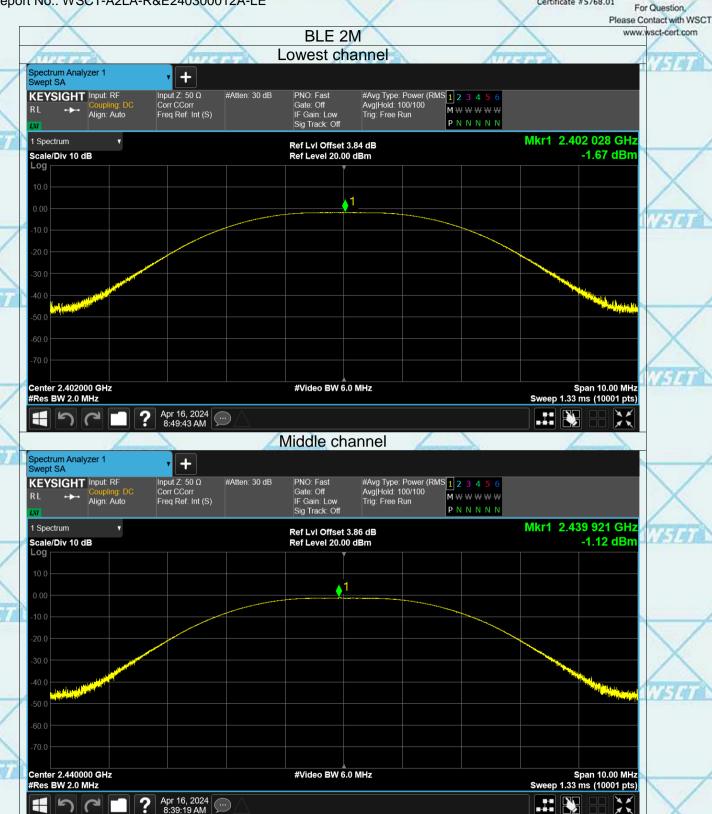






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### 6.3. Emission Bandwidth

# 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> </ol>
Test Result:	4. Measure and record the results in the test report.  PASS



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#### 6.3.2. Test data

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		- 11 M-1	47.00
Test channel	Bandwidth (kHz)		
rest charmer	BT LE mode	Limit	Result
Lowest	0.651	>500k	NESTE
Middle	0.644	>500k	PASS
Highest	0.647	>500k	

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Toot channal	6dB Emission I	Bandwidth (kHz)	
Test channel	BT LE mode	Limit	Result
Lowest	1.103	>500k	WSET
Middle	1.085	>500k	PASS
Highest	1.085	>500k	

Test plots as follows:

NESTA	WETGE	WHI	WETGE	WHITE	,
	THE NY E				174741
WEIGH	Wester	WSTAT	W55191	W-5141	
	TO AVE				175141
WETA	WATER	WEITE	WASTER	WASTER OF	
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1.0433 MHz

3.593 kHz

644.4 kHz

Transmit Freq Error

x dB Bandwidth

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Total Power % of OBW Power 5.40 dBm

99.00 % -6.00 dB



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# 6.4. Power Spectral Density

### 6.4.1. Test Specification

Test Method:    The peak power spectral density shall not be greated than 8dBm in any 3kHz band at any time interval continuous transmission.    Test Setup:   Fut   Fu	ZIAP19			
The peak power spectral density shall not be greate than 8dBm in any 3kHz band at any time interval of continuous transmission.  Test Setup:  Test Mode:  Refer to item 4.1  1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. 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.  3. Set to the maximum power setting and enable the EUT transmit continuously.  4. 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)  5. 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.  6. Measure and record the results in the test report.	Test Requirement:	FCC Part15 C Section 15.247 (e)		
than 8dBm in any 3kHz band at any time interval of continuous transmission.  Test Setup:  Refer to item 4.1  1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. 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.  3. Set to the maximum power setting and enable the EUT transmit continuously.  4. 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)  5. 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.  6. Measure and record the results in the test report.	Test Method:	KDB558074		
Test Mode:  Refer to item 4.1  1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. The RF output of EUT was connected to the spectrun analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.  3. Set to the maximum power setting and enable the EUT transmit continuously.  4. 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)  5. 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.  6. Measure and record the results in the test report.	Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.		
Refer to item 4.1  1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. The RF output of EUT was connected to the spectrun analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.  3. Set to the maximum power setting and enable the EUT transmit continuously.  4. 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)  5. 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.  6. Measure and record the results in the test report.	Test Setup:			
<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 spectrun 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>	Took Mode.	Spectrum Analyzer		
Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectrun analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. 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) 5. 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. 6. Measure and record the results in the test report.	Test Mode:	ATTICATION ATTICATION		
6. Measure and record the results in the test report.	Test Procedure:	<ul> <li>Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04</li> <li>2. 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>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. 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>5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum</li> </ul>		
	"			
Test Result: PASS	Test Result:	PASS		



WHITE

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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	-16.67	8 dBm/3kHz		
Middle	13.99	8 dBm/3kHz	PASS	
Highest	-15.63	8 dBm/3kHz		

	Toot obannal	Power Spectral D	ensity (dBm/3kl	Hz)
Test channel		BLE 2M	Limit	Result
	Lowest	-19.74	8 dBm/3kHz	
	Middle	-18.34	8 dBm/3kHz	PASS
	Highest	-18.78	8 dBm/3kHz	

Test plots as follows:

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WEIGH	WESTER	WESTER	MISTA	WASTER OF	,
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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: maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is

- 15.247(d). 4. Measure and record the results in the test report.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

**PASS** Test Result:



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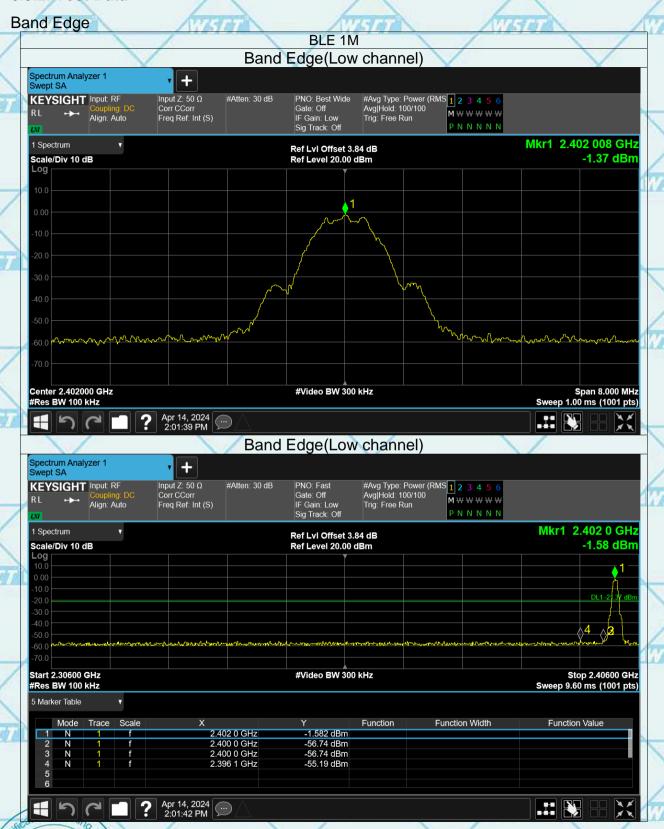




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#### **6.5.2. Test Data**





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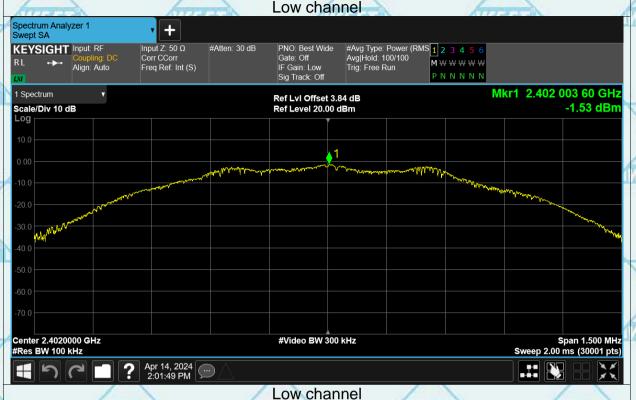






Report No.: WSCT-A2LA-R&E240300012A-LE Conducted RF Spurious Emission Certificate #5768.01

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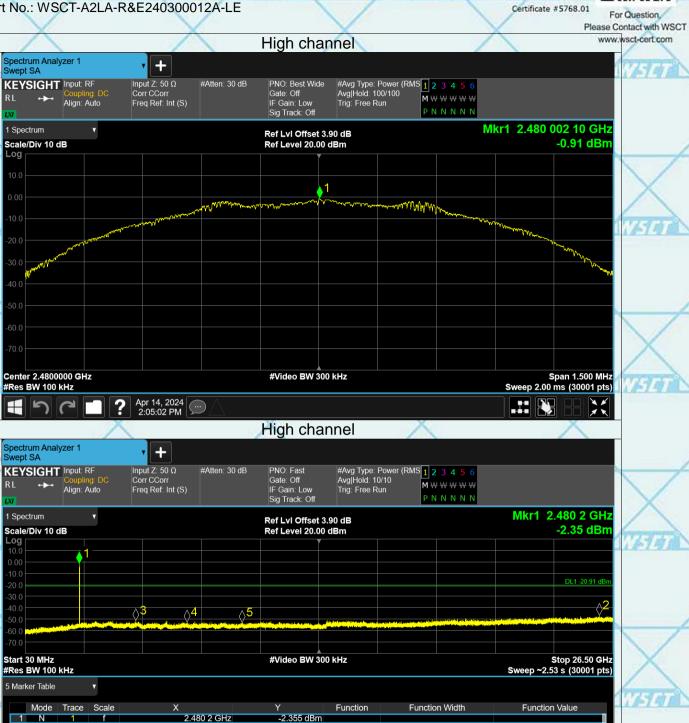








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-47.49 dBm -51.81 dBm -53.08 dBm

-53.59 dBm

25.904 4 GHz 5.015 2 GHz 7.334 0 GHz

9.806 3 GHz

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W-191	W-19	77570	W-101	WAS I	
NV.	TOTAL AWAS			1-19	WATER
N. 53.91	VI ET ALL	VETTE	WESTER	WHI	
	19			15141	WEIGH
WSIE	West of the Control o	WHITE	WESTER	WETE	
	741			/F/AT	WEIGH
WEIGH	WSI	Wister	W/5141	N/614	
	TOTAL NIE			15(4)	NIE I II
AVESTOT	WASTER	WETER	N/A/A	N. 1. 1.	
	$\langle \ \rangle$			7/5/10/	N/F101
control on & 7	To Group	X	X	X	









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### 6.6. **Conducted Emission**

Test Requirement: FCC Part15 C Section 15.207	
rest requirement.	
Test Method: ANSI C63.10:2014	WSET
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  Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	4
Test Mode: Refer to item 4.1	X
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
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	ohm/50uH on. (Please setup and
conducted interference. In order to find the emission, the relative positions of equipmer the interface cables must be changed according to the interface.	maximum at and all of rding to
Test Result: PASS	$\times$

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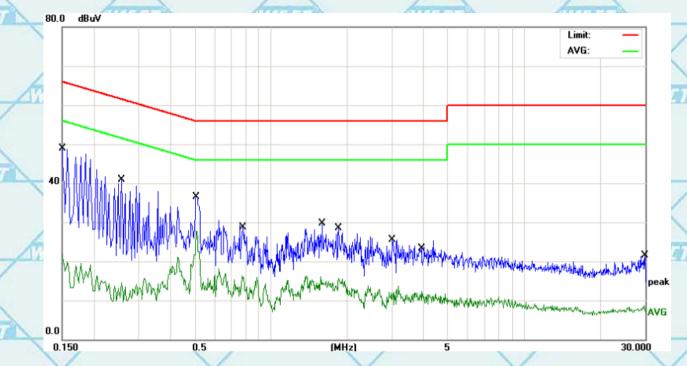
6.6.2. Test data

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# 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	
4			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1	*	0.1500	38.51	10.41	48.92	65.99	-17.07	QP
	2		0.1500	11.58	10.41	21.99	55.99	-34.00	AVG
1	3		0.2580	30.43	10.42	40.85	61.49	-20.64	QP 🔣
	4		0.5100	26.07	10.47	36.54	56.00	-19.46	QP
	5		0.5100	17.30	10.47	27.77	46.00	-18.23	AVG
	6		0.7740	5.85	10.49	16.34	46.00	-29.66	AVG
3	7		1.5940	19.05	10.60	29.65	56.00	-26.35	QP
	8		1.8540	5.13	10.64	15.77	46.00	-30.23	AVG
	9		3.0100	14.83	10.67	25.50	56.00	-30.50	QP
1	10		3.9300	1.55	10.68	12.23	46.00	-33.77	AVG
	11		29.7260	-2.28	10.96	8.68	50.00	-41.32	AVG
	12		29.9540	10.58	10.96	21.54	60.00	-38.46	QP

WSET

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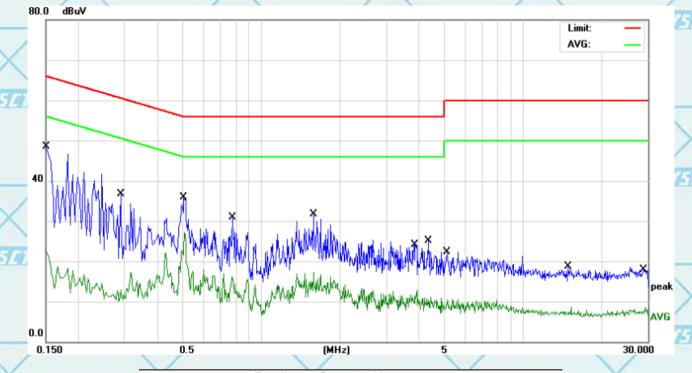




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No	Mk.	From	Reading	Correct	Measure-	Limit	Over	
NO.	IVIK.	Freq.	Level	Factor	ment	Liiiii	Ovei	
V		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1500	38.15	10.41	48.56	65.99	-17.43	QP
2		0.1500	12.22	10.41	22.63	55.99	-33.36	AVG
3		0.2900	26.19	10.43	36.62	60.52	-23.90	QP
4		0.5100	16.57	10.47	27.04	46.00	-18.96	AVG
5		0.7780	20.35	10.49	30.84	56.00	-25.16	QP
6		1.5780	21.19	10.60	31.79	56.00	-24.21	QP
7		1.5780	6.68	10.60	17.28	46.00	-28.72	AVG
8		3.9260	2.17	10.68	12.85	46.00	-33.15	AVG
9		4.3540	14.40	10.68	25.08	56.00	-30.92	QP
10		5.1620	-0.10	10.69	10.59	50.00	-39.41	AVG
11		14.9060	7.60	11.05	18.65	60.00	-41.35	QP
12		29.2820	-2.44	10.96	8.52	50.00	-41.48	AVG
	3.7			No.		-		

### 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

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		318191		CALL!		1
	Test Requirement:	FCC Part15	C Sectio	n 15.209		X	
	Test Method:	ANSI C63.10	):2014	17/5/47		11/19	
	Frequency Range:	9 kHz to 25 (	GHz			/	1
	Measurement Distance:	3 m					
	Antenna Polarization:	Horizontal &	Vertical		177		1
	Operation mode:	Refer to item	4.1				
		Frequency	Detector		VBW	Remark	
	17/5/97	9kHz- 150kHz	Quasi-pea		1kHz	Quasi-peak Va	
	Receiver Setup:	150kHz- 30MHz	Quasi-pea	ak 9kHz	30kHz	Quasi-peak Va	lue
	Receiver Setup.	30MHz-1GHz	Quasi-pea	ak 100KHz	300KHz	Quasi-peak Va	lue
			Peak	1MHz	3MHz	Peak Value	
	N279 N279	Above 1GHz	Peak	1MHz	10Hz	Average Valu	Emin
7				E1110			
	X	Frequen	су	Field Stre (microvolts)	-	Measuremen Distance (mete	
		0.009-0.490		2400/F(F	•	300	
1	WETER A	0.490-1.7		24000/F(		30	
		1.705-3	30	30		30	1
	X	30-88		100	$\rightarrow$	3	- 8
	11/4	88-216		150		3	
	Limit:	216-96 Above 9	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200 500	1769	3	
7		Above 9	00	300	regioneric di dilicinationali		1
	X	X			Measure	ment	
		Frequency		eld Strength rovolts/meter)	Distan	ce Detecto	or
	WATER	11414	(IIIIC	Allegan	(meter		
		Above 1GHz	2	500	3	Averag	
	X		X	5000	3	Peak	
		For radiated	emission	ns below 30	MHz		1
	AWSET AWSE						
		Distance = 3m					
	X						
1			1 (	( ) [	Pre -	-Amplifier	
1	Test setup: W5///	EUT		$\forall$	L		
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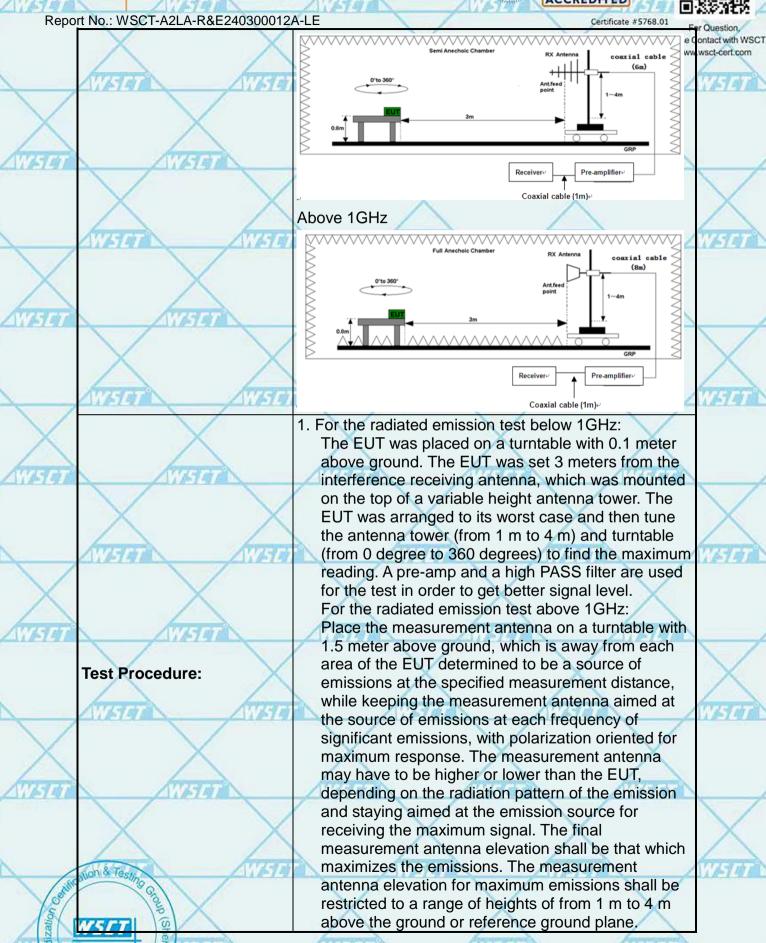
Ground Plane

30MHz to 1GHz









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Repo	rt No.: WSCT-A2LA-R&E24030	0012A-LE Certificate #5768.01 Fer Question.	
	X	2. Corrected Reading: Antenna Factor + Cable Loss Hase Contact with Williams	
		Read Level - Preamp Factor = Level	1
	ATTENDED ATT	3. For measurement below 1GHz, If the emission level	A
	TIP 19 B	of the EUT measured by the peak detector is 3 dB	-
		lower than the applicable limit, the peak emission	
		level will be reported. Otherwise, the emission	
		measurement will be repeated using the quasi-peak	-
AWS ST	17679	detector and reported.	/
		4. Use the following spectrum analyzer settings:	
	X	(1) Span shall wide enough to fully capture the	
		emission being measured;	
	WATER	TOTAL ATTOTAL ATTOTAL ATTOTAL	8
		(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;	
		Sweep = auto; Detector function = peak; Trace =	
		max hold;	
America	MITTER	(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz	
ZIE ITE	10191	for peak measurement.	-
		For average measurement: VBW = 10 Hz, when	
		duty cycle is no less than 98 percent. VBW ≥ 1/T,	
		when duty cycle is less than 98 percent where T is	8
	AVETE AVE	the minimum transmission duration over which the	7
\ /		transmitter is on and is transmitting at its maximum	
X	X	power control level for the tested mode of operation.	
AWSET	Test mode:	Refer to section 4.1 for details	1
	Test results:	PASS	
	×	X X X	
	Note: Freq. = Emission frequency in		
	Reading level $(dB\mu V)$ = Receiver re	eauling	0

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

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Certificate #5768.01

For Question,
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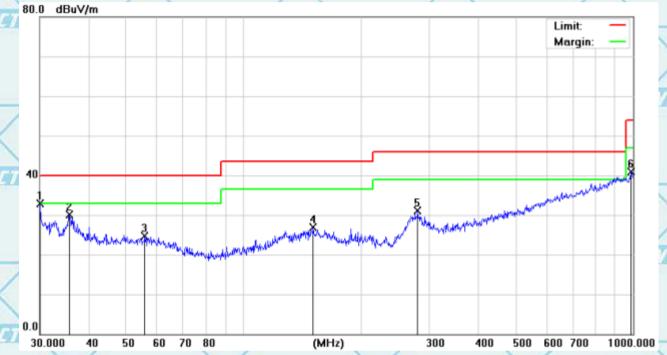
# 6.7.2. Test Data

Please refer to following diagram for individual

Below 1GHz

(the worst case)

Horizontal:



N	lo.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	191
Ď			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	* ,	30.0000	34.61	-1.73	32.88	40.00	-7.12	QP
	2	1	35.7490	31.23	-1.21	30.02	40.00	-9.98	QP
7	3		55.8047	26.23	-1.50	24.73	40.00	-15.27	QP
	4		151.0666	26.84	0.07	26.91	43.50	-16.59	QP
1	5	1	280.0237	31.79	-0.75	31.04	46.00	-14.96	QP
	6		989.5355	26.55	14.35	40.90	54.00	-13.10	QP

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AWSET

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ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992308 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com





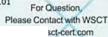


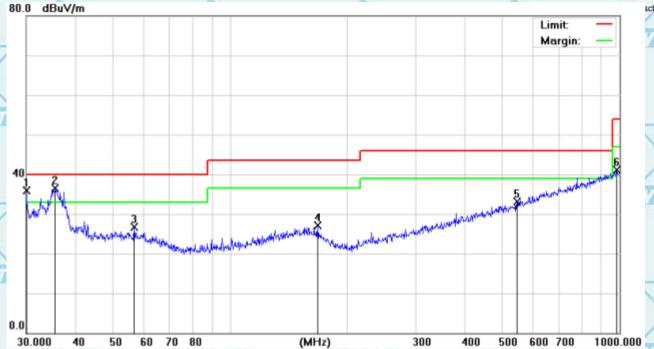


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_								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	141
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	1	30.0000	37.68	-1.73	35.95	40.00	-4.05	QP
2	,di	35.6240	37.82	-1.24	36.58	40.00	-3.42	QP
3		56.7917	28.32	-1.55	26.77	40.00	-13.23	QP
4		167.8243	27.53	-0.50	27.03	43.50	-16.47	QP
5	1	545.1826	26.97	6.09	33.06	46.00	-12.94	QP
6		982.6200	26.96	14.21	41.17	54.00	-12.83	QP

## Note1:

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)

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## **Above 1GHz**

	Freq. (MHz)		Low channel: 2402MHz								
4		Ant.Pol	Emission I	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
		H/V	PK	AV	PK	AV	PK	AV			
	4804	V	60.00	41.37	74	54	-14.00	-12.63			
X	7206	\ \ \	59.58	40.37	74	54	-14.42	-13.63			
-	4804	TETAME	59.44	40.09	74	54	-14.56	-13.91			
	7206	Н	58.56	39.56	74	54	-15.44	-14.44			

	Eroa	Middle channel: 2440MHz								
_	Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
	(IVIITZ)	H/V	PK	AV	PK	AV	PK	AV		
	4880	V	58.97	41.48	74	54	-15.03	-12.52		
	7320		58.06	40.72	74	54	-15.94	-13.28		
	4880	WSHT	59.14	40.32	74	54	-14.86	-13.68		
	7320	H	59.16	40.16	74	54	-14.84	-13.84		

		V								
Frog		High channel: 2480 MHz								
Freq. (MHz)	Ant.Pol	Emission I	Emission Level(dBuV) Limit 3m(dBuV/m)		Over(dB)					
(IVITIZ)	H/V	PK	AV	PK	AV	PK	AV			
4960	V	58.65	39.53	74	54	-15.35	-14.47			
7440	V	58.77	40.86	74	54	-15.23	-13.14			
4960		59.35	39.85	74	54	-14.65	-14.15			
7440	THE PARTY	59.74	40.74	74	54	-14.26	-13.26			

## Note:

- 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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		X	$\lambda$	$\Delta$	X



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## **Restricted Bands Requirements**

Test result for GFSK Mode (the worst case)

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
	AVATOR	1	Low Cha	nnel	111240		NUAS
2390	68.66	-8.73	59.93	74	-14.07	H	PK
2390	48.42	-8.73	39.69	54	-14.31	нХ	AV
2390	69.59	-8.73	60.86	74	-13.14	V	PK
2390	51.06	-8.73	42.33	54	-11.67	V	AV
			High Cha	nnel			
2483.5	70.00	-8.17	61.83	74	-12.17	Н	PK
2483.5	48.84	-8.17	40.67	54	-13.33	H	AV
2483.5	69.25	-8.17	61.08	74	-12.92	V	PK
2483.5	47.65	-8.17	39.48	54	-14.52	V	AV

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

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