

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



Certificate Number 5768.0

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For Question Please Contact with WSCT www.wsct-cert.com

# **TEST REPORT**

FCC ID: 2ADYY-T1 Product: Megabook Model No.: T1 Additional Model No.: N/A **Trade Mark: TECNO** Report No.: WSCT-A2LA-R&E220300004A-BT Issued Date: 01 August 2022

Issued for:

**TECNO MOBILE 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 & Test TEL: +86-755-26996192

FAX: +86-755-86376605

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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## 1. Test Certification

	www.v	vsct-cert.com
Product:	Megabook 7 WSCT WSCT	AWSEN
Model No.:	T1	
Additional Model:	N/A WSET WSET WSET	
Applicant:	TECNO MOBILE LIMITED	
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	Avist
Manufacturer:	TECNO MOBILE LIMITED	
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
Date of Test:	13 July 2022 ~ 27 July 2022	$\mathbf{X}$
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247	Awister
		,

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:

(Li Huaibi)

Approved By:

(Wang Fengbing)

Date:

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# 2. Test Result Summary

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	$\triangle$ $\triangle$			w.wsct-cert.com
	Requirement	CFR 47 Section	Result	AWSET N
$\times$	Antenna Requirement	§15.203/§15.247 (c)	PASS	
S <i>CT</i> °	AC Power Line Conducted Emission	W5ET §15.207 W5ET	PASS	
	Conducted Peak Output Power	§15.247 (b)(1) §2.1046	PASS	WISET
$\leq$	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS	
5 <i>CT</i> °	Carrier Frequencies Separation	§15.247 (a)(1)	PASS	
	Hopping Channel Number	§15.247 (a)(1)	PASS	
-/	Dwell Time	§15.247 (a)(1)	PASS	WSET
SET	Radiated Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
	Band Edge	§15.247(d) §2.1051, §2.1057	PASS	$\mathbf{X}$
	Note:5[7 W5]	T WSET	WSET	WSET
SET	<ol> <li>PASS: Test item meets the require</li> <li>Fail: Test item does not meet the</li> <li>N/A: Test case does not apply to</li> </ol>	requirement.	WIST	
	4. The test result judgment is decide		WSET	WSET
SET	WSET	WISET WISET	WISC	
	$\times$		WSET	WSET
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#### **EUT** Description 3.

	3. EUT Description	$\mathbf{\dot{x}}$ $\mathbf{X}$	Please Contact with WSCT www.wsct-cert.com
	Product Name:	Megabook W5CT	WSET
/	Model :	T1	
	Additional Model:	N/A	$\frown$
7	Trade Mark:	TECNOWSET WSET W	SET
	Operation Frequency:	2402MHz~2480MHz	X
	Channel Separation:	1MHz WSCT WSCT	WSET
/	Number of Channel:	79	
	Modulation Type:	GFSK	
7	Modulation Technology:	FHSS WSCT WSCT	SET°
	Antenna Type:	Integral Antenna	
	Antenna Gain:	4.44dBi	WSET
	Power Supply:	Rechargeable Li-ion Polymer Battery: 156 Rated Voltage: 11.55V Rated Capacity: 6060mAh/69.99Wh	567
		Typical Capacity:6160mAh/71.14Wh Limited Charge Voltage: 13.2V	
/	Adapter:	Adapter: TCW-A61S-65W Input: 100-240V~50/60Hz 1.5A Max Output:5.0V3.0A/9.0V3.0A/12.0V3.0A/15.0V .0V3.25A	3.0A/20
-	Remark:	N/A.	

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	Operatio	n Frequenc	y each o	f channel fo	or GFSK,	π/4-DQPŠ	K, 8DPS	For Qu	uestion,
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	ct with WSCT t-cert.com
	0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz	
7		2403MHz	21-1	2423MHz	41	2443MHz	61	2463MHz	WSET
		$\sim$							
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz	
7	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz	
								/	
	18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz	
	19	2421MHz	39	2441MHz	59	2461MHz		<u>_</u>	
	Remark:	Channel 0 3	9 &78 ha	ve been tes	ted for G	FSK π/4-D(	DPSK 8	DPSK	WSET

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modulation mode.

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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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	Adapter	1	1	ADAPTER

Note:

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- 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, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, 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 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

## 5.2. ACCREDITATIONS

China National Accreditation Service for Conformity Assessment (CNAS) Registration number NO: L3732

American Association for Laboratory Accreditation(A2LA)

Registration NO: 5768.01

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Copies of granted accreditation certificates are available for downloading from our web site, <u>http://www.wsct-cert.com</u>





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

ſ.,	oonnao	nce of approximately 95 %.	
	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
7	4750	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
7	6	Temperature	±0.5°C
	7	Humidity	±2.0%









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# Report No.: WSCT-A2LA-R&E220300004A-BT 5.4 MEASUREMENT INSTRUMENTS

J.4 MLASURE		Please Contact w				
NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibrati on Due.	rt.com
Test software		EZ-EMC	CON-03A		-	
EMI Test Receiver	R&S	ESCI	100005	11/05/2021	11/04/2022	
LISN	AFJ	LS16	16010222119	11/05/2021	11/04/2022	
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2021	11/04/2022	
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2021	11/04/2022	Х
Coaxial cable	Megalon	LMR400/5/	7°N/A	11/05/2021	11/04/2022	V5C
GPIB cable	Megalon	GPIB	N/A	11/05/2021	11/04/2022	
Spectrum Analyzer	R&S	FSU	100114	11/05/2021	11/04/2022	
Pre Amplifier	С7 Н.Р.	5 HP8447E	2945A02715	11/05/2021	11/04/2022	
Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2021	11/04/2022	$\searrow$
Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2021	11/04/2022	$\wedge$
9*6*6 Anechoic	WISET		7	11/05/2021	11/04/2022	VSC
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	X	11/05/2021	11/04/2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2021	11/04/2022	
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2021	11/04/2022	
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R	X
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R	VEI
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R	
RF cable	Murata	MXHQ87WA3000	-X	11/05/2021	11/04/2022	
Loop Antenna	EMCO	6502	00042960	11/05/2021	11/04/2022	
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2021	11/04/2022	
Power meter	Anritsu	ML2487A	6K00003613	11/05/2021	11/04/2022	X
Power sensor	Anritsu	MX248XD		11/05/2021	11/04/2022	V5L

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## 6. Test Results and Measurement Data

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## 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:

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The Bluetooth antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is 4.44dBi.

Antenna



3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 :

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## 6.2. Conducted Emission

6.2.1. Test Specification

<u> </u>	6.2.1. Test Specification	AVISTAL AVISTAL	AWSET
$\mathbf{\times}$	Test Requirement:	FCC Part15 C Section 15.207	
WISIT	Test Method:	ANSI C63.10:2014	
	Frequency Range:	150 kHz to 30 MHz	
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	$\mathbf{X}$
X	Limits:	Frequency range (MHz)Limit (dBuV)0.15-0.5Quasi-peakAverage0.5-556 to 56*56 to 46*	<i>wsct</i> °N
WSET <sup>°</sup>	WSET	5-30 60 50 40	
		Reference Plane	$\sim$
	WISET WISE	Filter AC power	WSET
WSET	Test Setup: W5CT	E.U.T AC power EMI Receiver	
	WISET WISE	Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	WSET
$\sim$	Test Mode:	Refer to item 4.1	
wscr	WSET	1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the	
		<ul><li>measuring equipment.</li><li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH</li></ul>	
$\mathbf{X}$	Test Procedure:	coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).	
WSET	WSET VIII	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2014 on conducted measurement.	
Cotulit	Test Result:	PASS	
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For Question

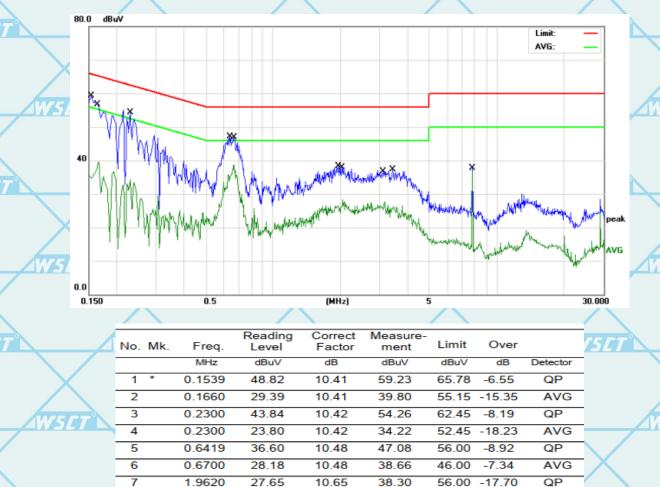
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#### 6.2.2. Test data

### Please refer to following diagram for individual

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



10.65

10.66

10.67

10.67

10.74

10.74

38.30

28.26

27.62

37.27

37.65

36.50

56.00

46.00

46.00

56.00

60.00

-17.70

-17.74

-18.38

-18.73

-22.35

50.00 -13.50

QP

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QP

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#### Note:

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Freq. = Emission frequency in MHz

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- Reading level  $(dB\mu V) = Receiver reading$
- Corr. Factor (dB) = Antenna factor + Cable loss
- Measurement  $(dB\mu V) = Reading level (dB\mu V) + Corr. Factor (dB)$

1.9620

2.0500

3.1500

3.4180

7.7540

7.7540

27.65

17.60

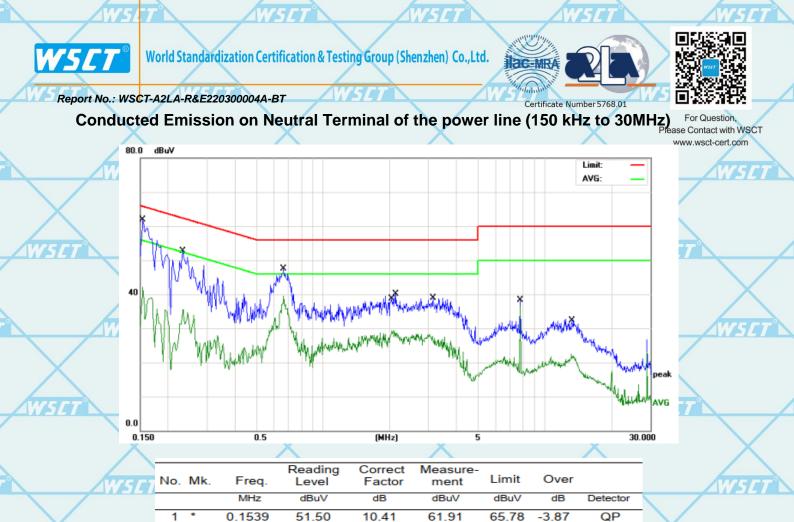
16.95

26.60

26.91

25.76

- Limit  $(dB\mu V) = Limit$  stated in standard
- Margin (dB) = Measurement (dB $\mu$ V) Limits (dB $\mu$ V)
- Q.P. =Quasi-Peak
- AVG =average
  - \* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz
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/ 1		1 H		-

Freq. = Emission frequency in MHz

2

3

4

5

6

7

8

10

11

12

- Reading level  $(dB\mu V) = Receiver reading$
- Corr. Factor (dB) = Antenna factor + Cable loss

0.1539

0.2340

0.2340

0.6660

0.6660

2.0740

2.1420

3.1420

7.7460

7.7460

13.2500

31.70

42.20

25.10

37.08

29.03

18.69

29.52

28.28

27.63

25.74

11.48

10,41

10.42

10.42

10.48

10.48

10.66

10.66

10.67

10.74

10.74

10.97

42.11

52.62

35.52

47.56

39.51

29.35

40.18

38.95

38.37

36.48

22.45

55.78

62.30

52.30

56.00

46.00

46.00

60.00

50.00

-13.67

-9.68

-16.78

-8.44

-6.49

-16.65

-21.63

-13.52

56.00 -15.82

56.00 -17.05

50.00 -27.55

AVG

QP

AVG

AVG

AVG

QP

QP

QP

AVG

AVG

QP

- Measurement  $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor (dB)$
- $Limit (dB\mu V) = Limit stated in standard$
- Margin (dB) = Measurement (dB $\mu$ V) Limits (dB $\mu$ V)

Q.P. =Quasi-Peak AVG =average

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

#### Note2:

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Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, on & Territ DQPSK, 8DPSK), and the worst case Mode (Lowest channel and GFSK) was submitted only.

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## 6.3. Conducted Output Power

6.3.1. Test Specification

	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
0	Test Method:	ANSI C63.10:2014	
	Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.	
	Test Setup:	Spectrum Analyzer	$\sum$
7	Test Mode:	Transmitting mode with modulation	4W5E
	Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.	AW51
	Test Result:	PASS	

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#### 6.3.2. Test Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.69	20.97	PASS
Middle	10.01557	20.97	PASS
Highest	8.71	20.97	PASS

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## Pi/4DQPSK mode

Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	5.05	20.97	PASS
Middle	6.51	20.97	PASS
Highest	8.61	20.97	PASS

### 8DPSK mode

Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	5.37	20.97	PASS
Middle	3.54	20.97	PASS
Highest	8.52	20.97	PASS

Test plots as follows:

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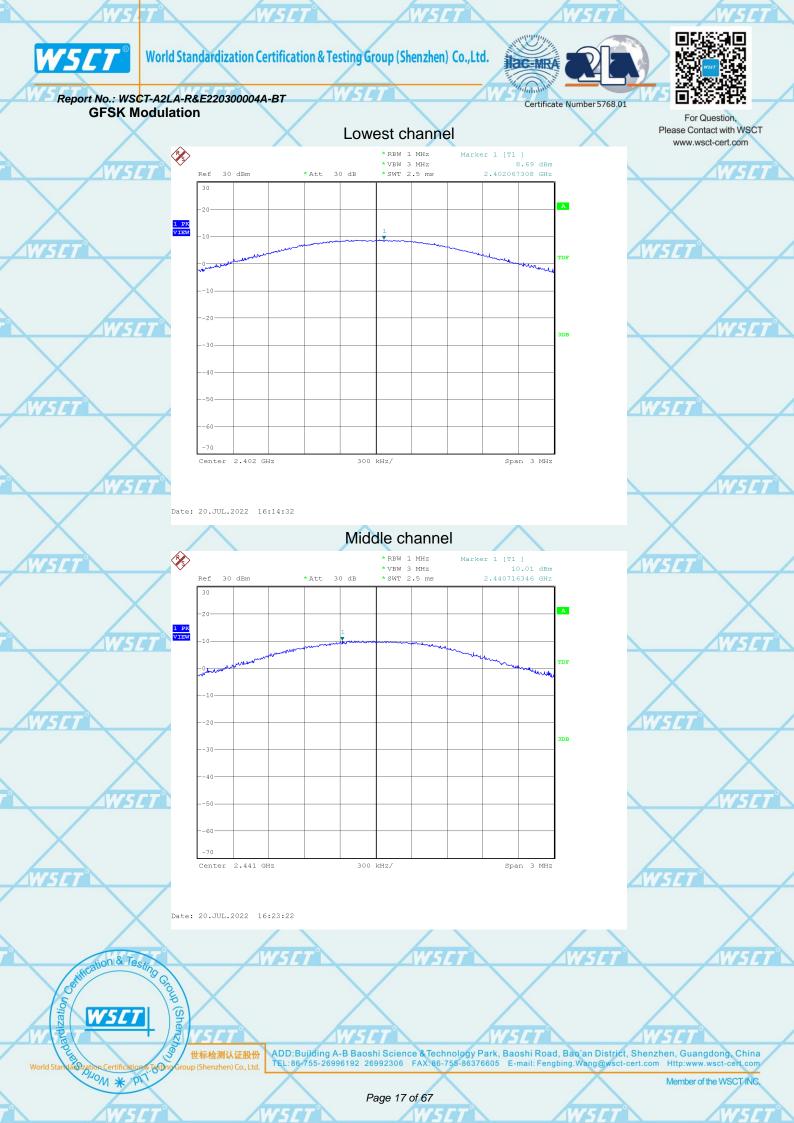
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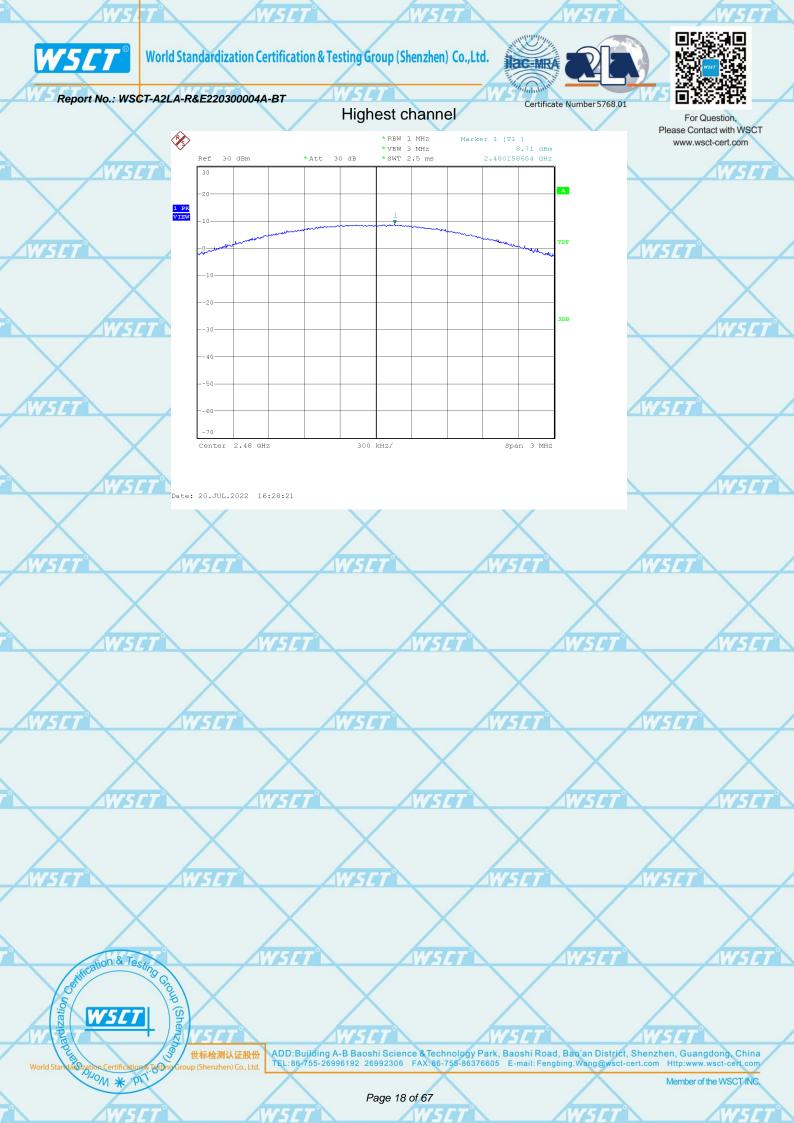
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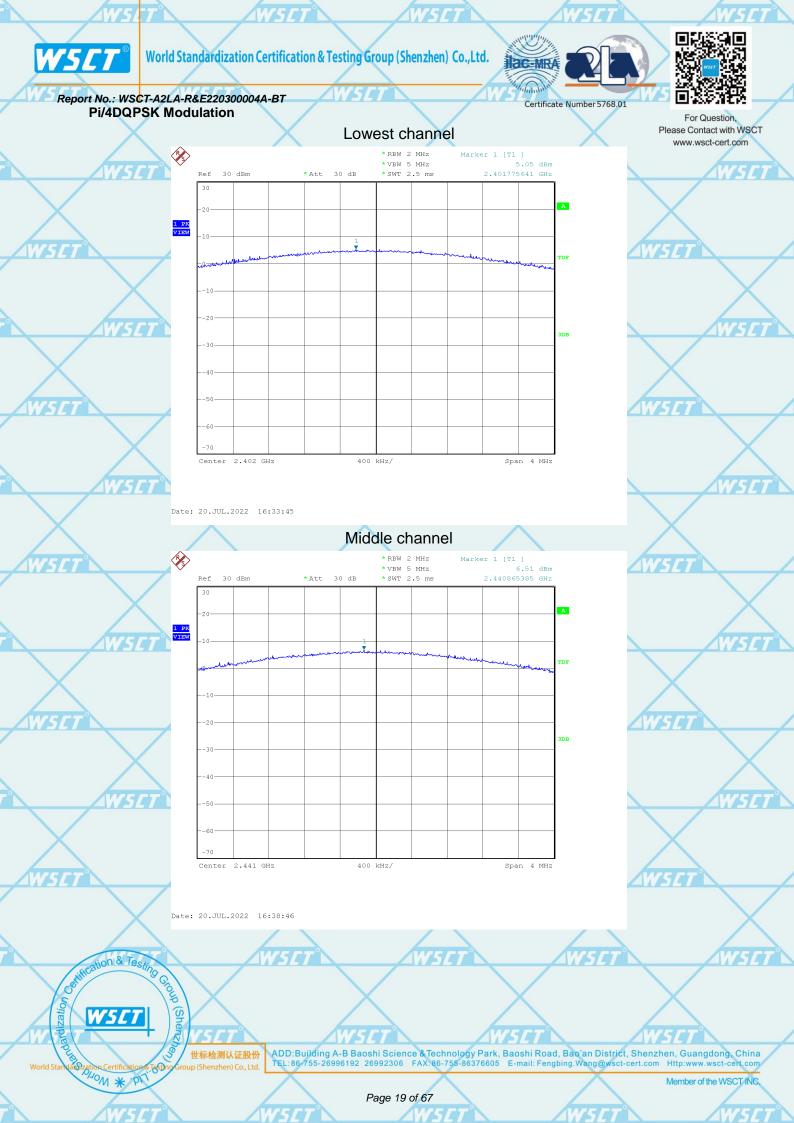
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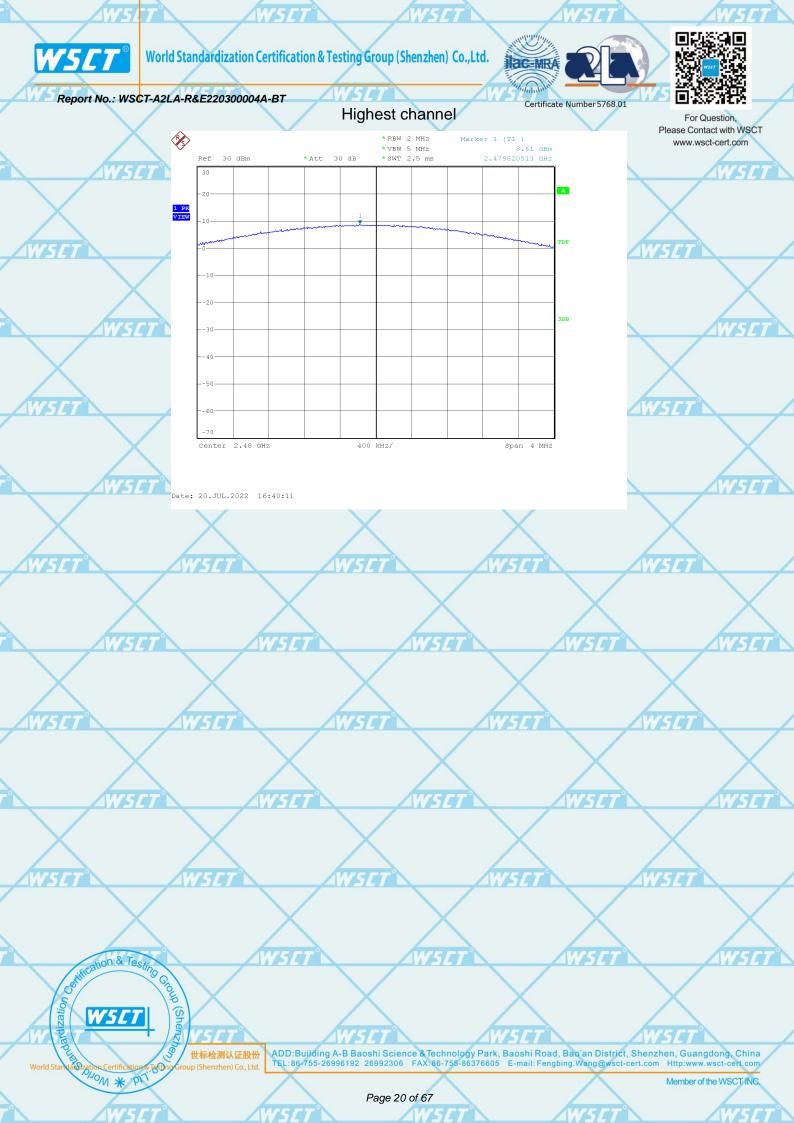
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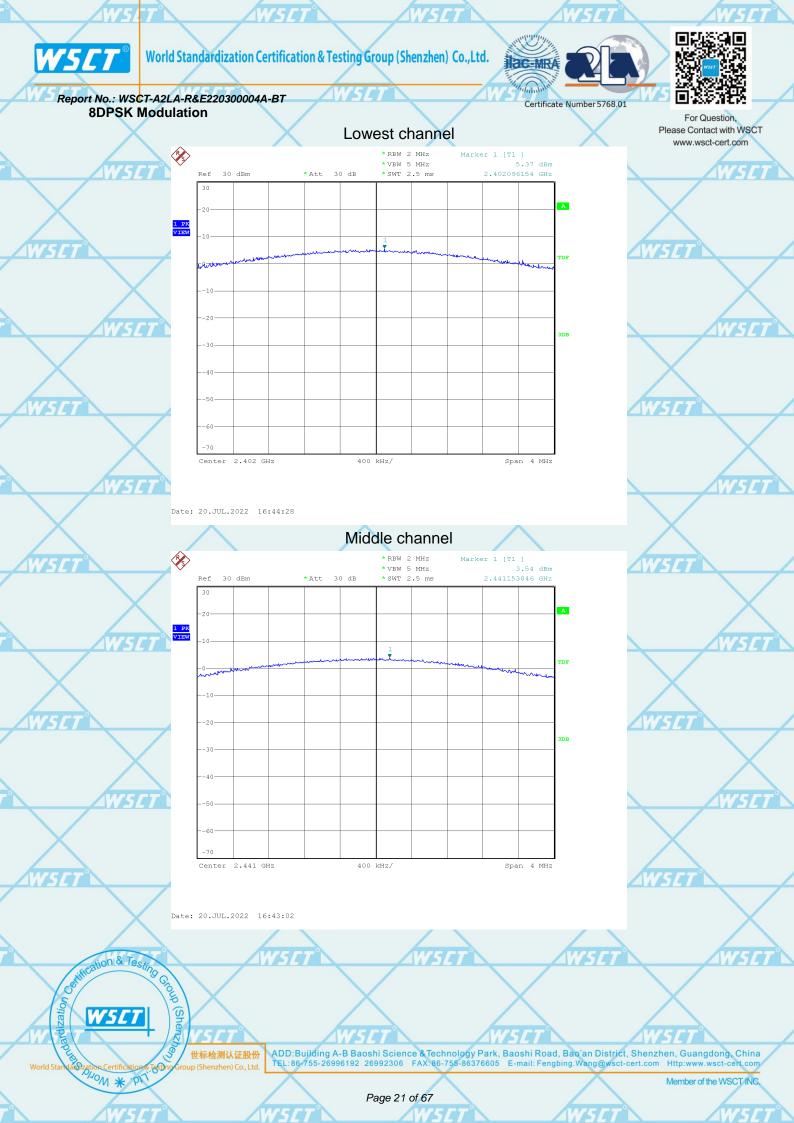
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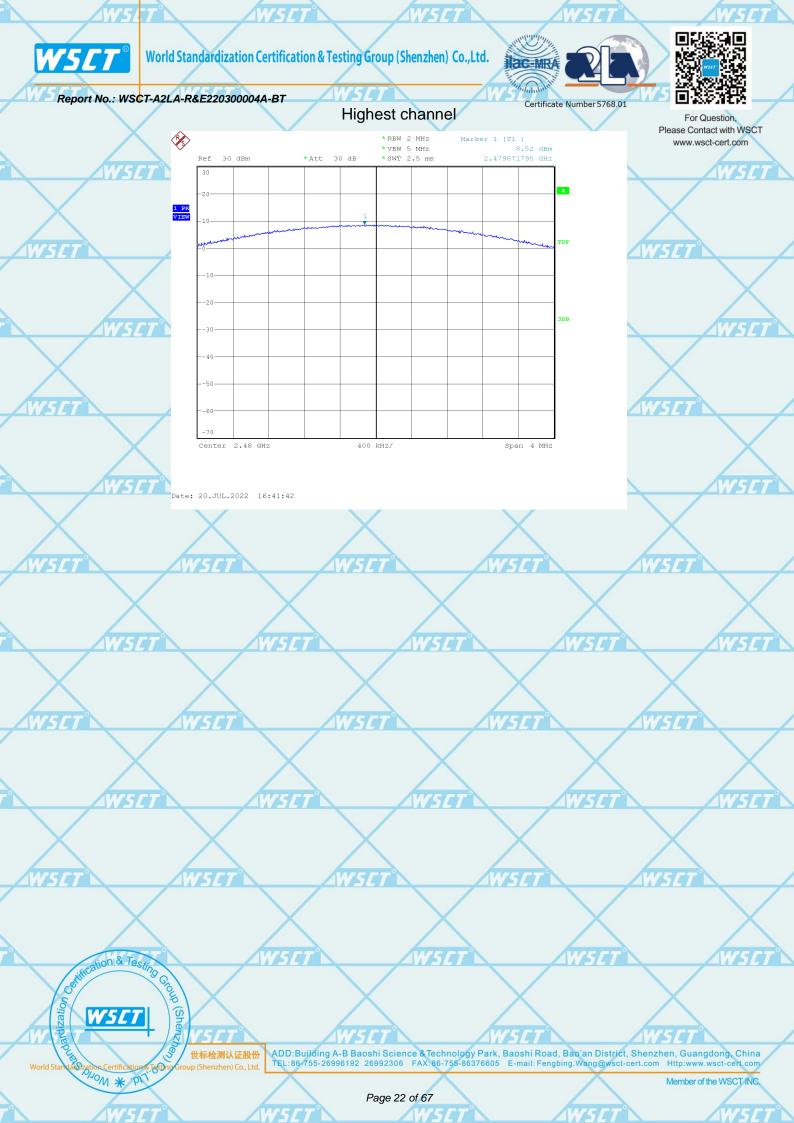














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6.4. 20dB Occupy Bandwidth

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	For Question,
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	www.wsct-cert.com

6.4.1. Test Specification

				<u> 477 3L I  </u>
/	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
	Test Method:	ANSI C63.10:2014		
7	Limit:	N/A	WSL 1	
7	Test Setup:			WSET
		Spectrum Analyzer	X	
	Test Mode:	Transmitting mode with modulat	tion	
	Test Procedure:	<ol> <li>The testing follows ANSI C63.10:2014 Measurement Guidelines.</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>Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤ RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>		WISLT WISLT
7	Test Result:	PASS/5CT	T WSET	

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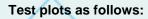
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6.4.2. Test data

	Test channel	20dB Occupy Bandwidth (kHz)			
Test channel		GFSK	π/4-DQPSK	8DPSK	Conclusion
	Lowest	956.73	1432.69	1471.15	PASS
	Middle	1043.27	1442.31	1475.96	PASS
	Highest	956.73	1447.12	1471.15	PASS

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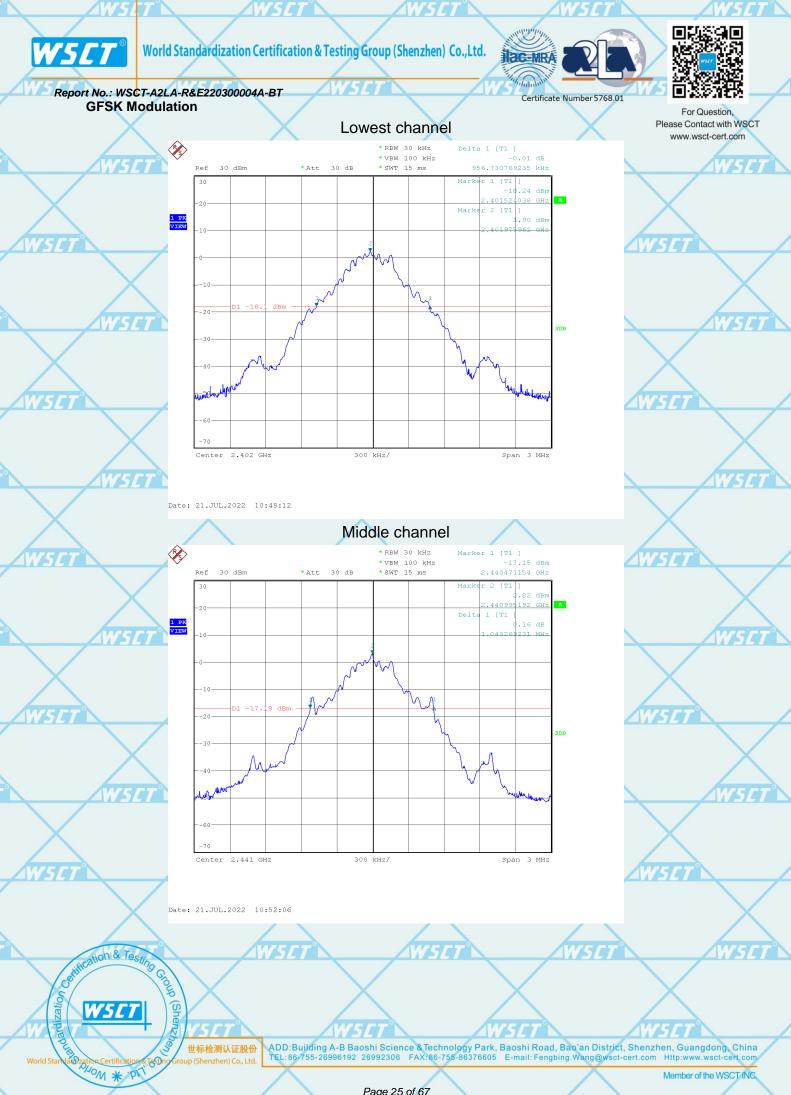


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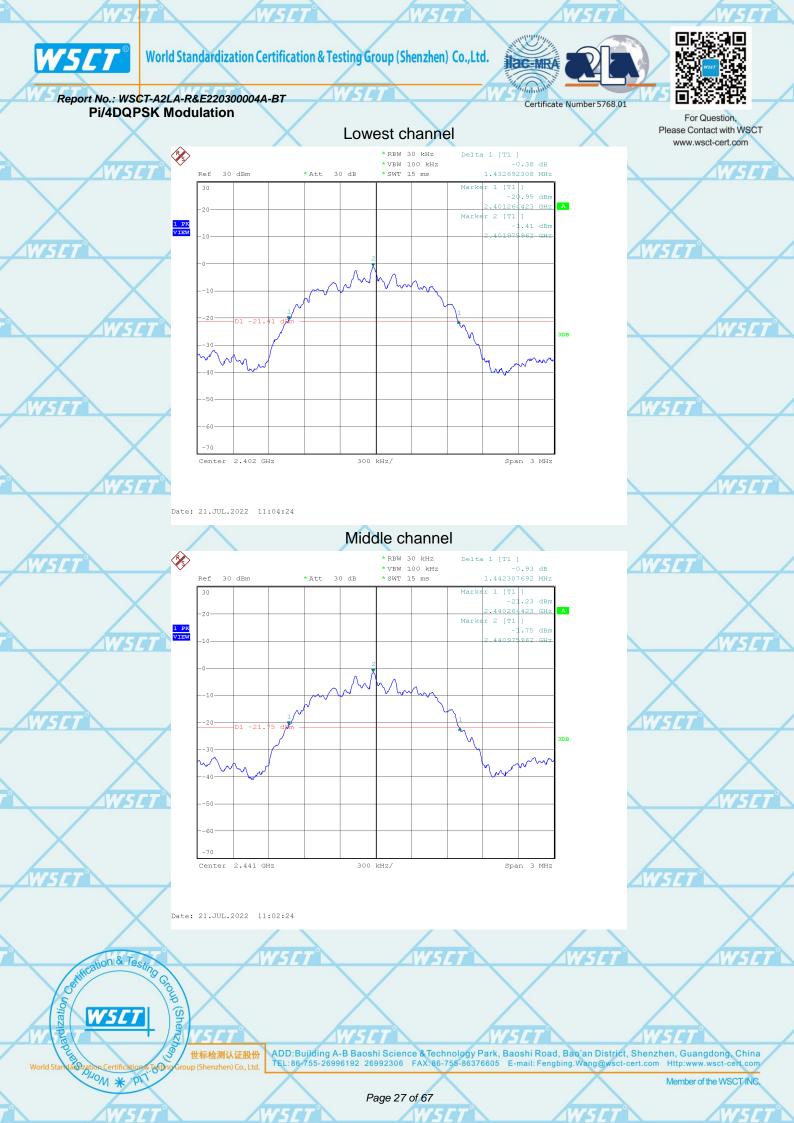
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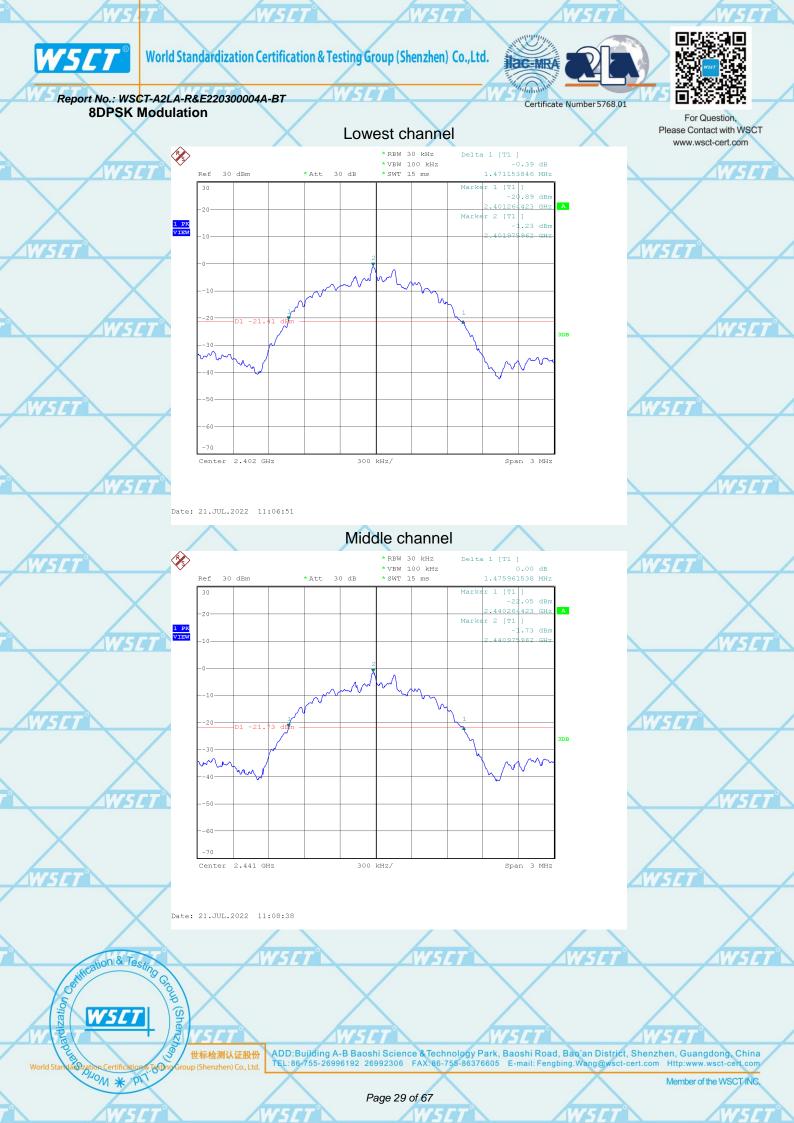


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## 6.5. Carrier Frequencies Separation

6.5.1. Test Specification 5 [7]

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2014		
Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.	AWSET	
Test Setup:	Spectrum Analyzer EUT		
Test Mode:	Hopping mode		
Test Procedure:	<ol> <li>The testing follows ANSI C63.10:2014 Measurement Guidelines.</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>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Use the marker-delta function to determine the separation</li> </ol>	AWSET AWSET	
Z Test Result:	between the peaks of the adjacent channels. Record the value in report.		

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#### 6.5.2. Test data

GFSK mode				
Test channel	Test channelCarrier Frequencies Separation (kHz)Limit (kHz)Result			
Lowest	1003.20	2/3*20dB BW	PASS	
Middle	996.79	2/3*20dB BW	PASS	
Highest	1000.00	2/3*20dB BW	PASS	

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Pi/4 DQPSK mode				
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result	
Lowest	1000.00	2/3*20dB BW	PASS	
Middle	1003.21	2/3*20dB BW	PASS	
Highest	1006.41	2/3*20dB BW	PASS	

8DPSK mode				
Test channel	Carrier Frequencies Separation (kHz)	Result		
Lowest	1000.00	2/3*20dB BW	PASS	
Middle	1003.21	2/3*20dB BW	PASS	
Highest	1012.82	2/3*20dB BW	PASS	

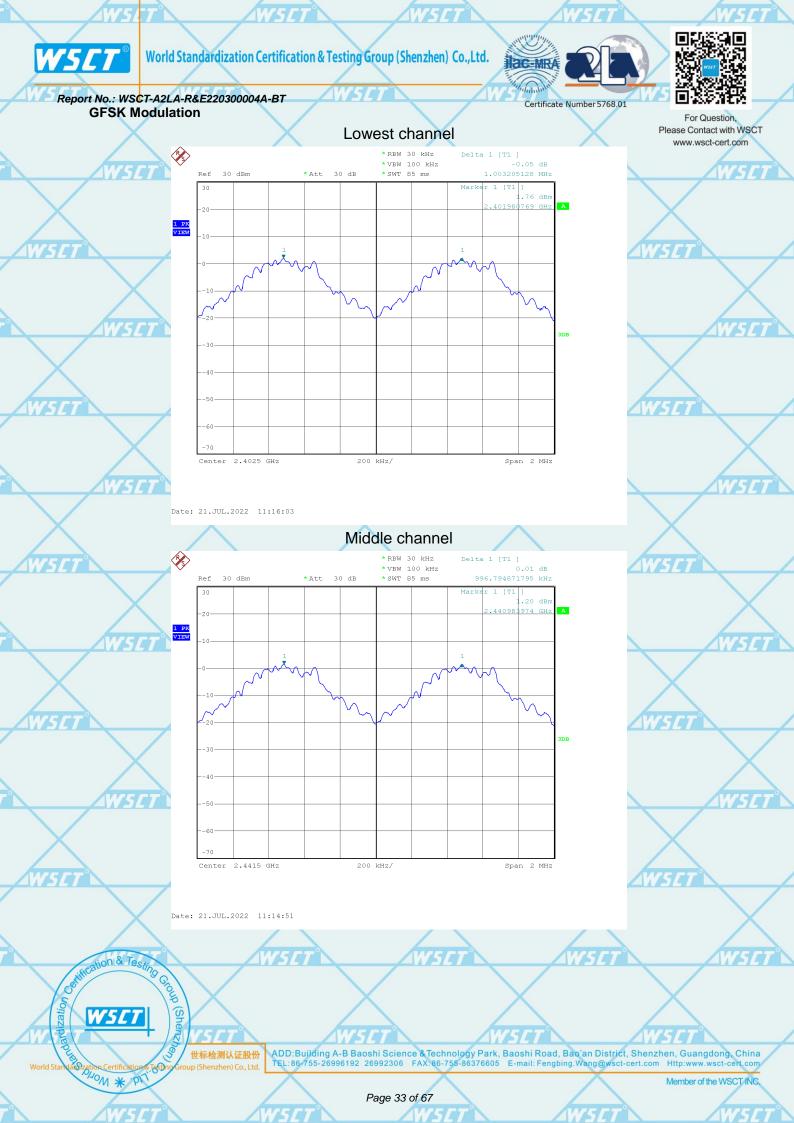


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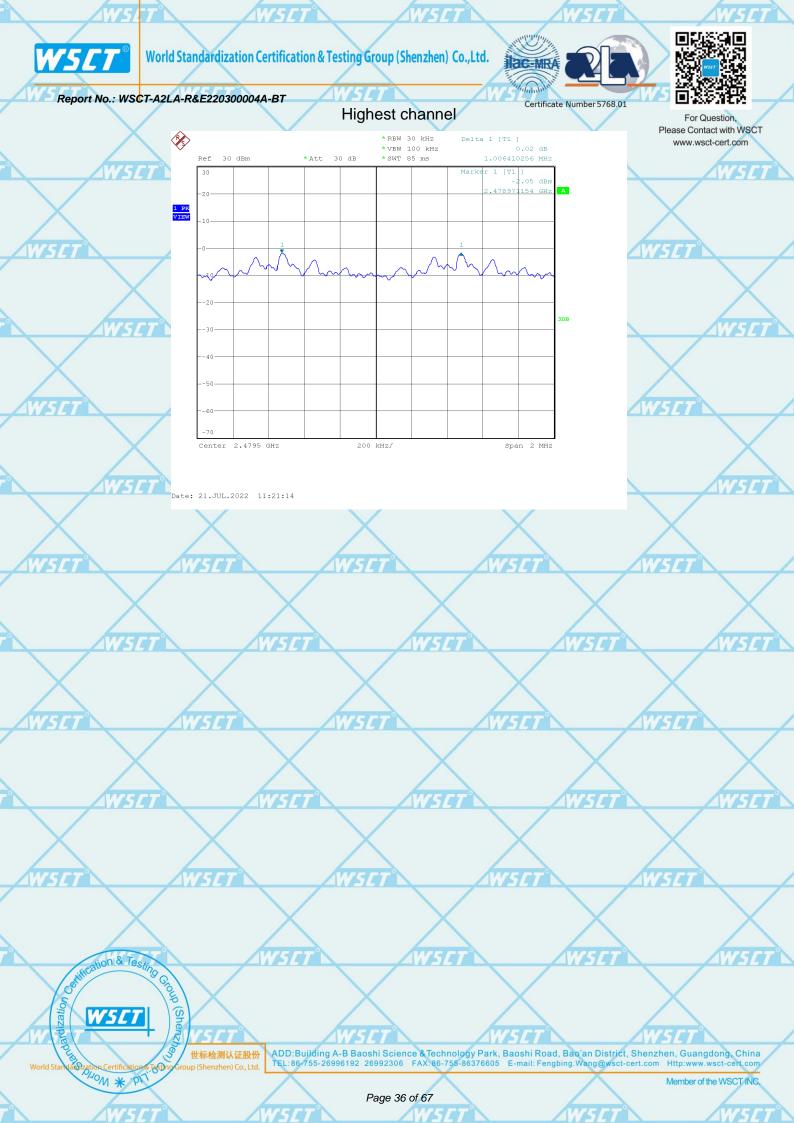


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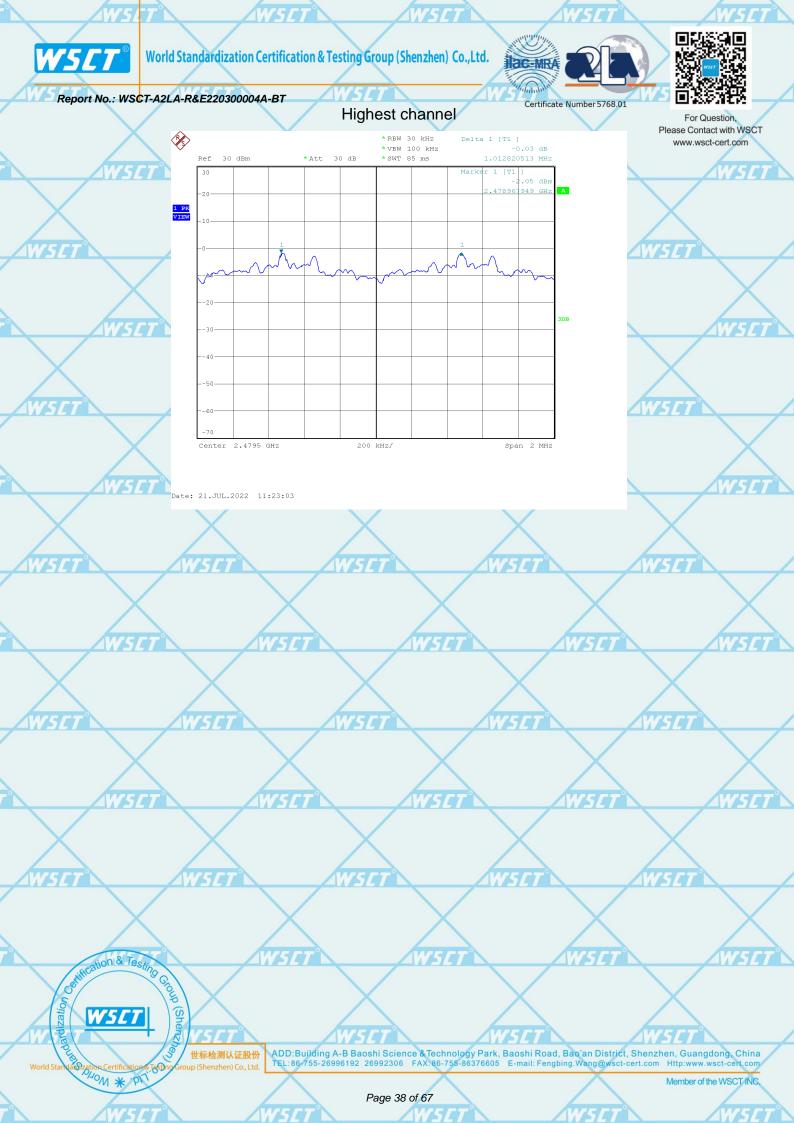














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## 6.6. Hopping Channel Number

6.6.1. Test Specification

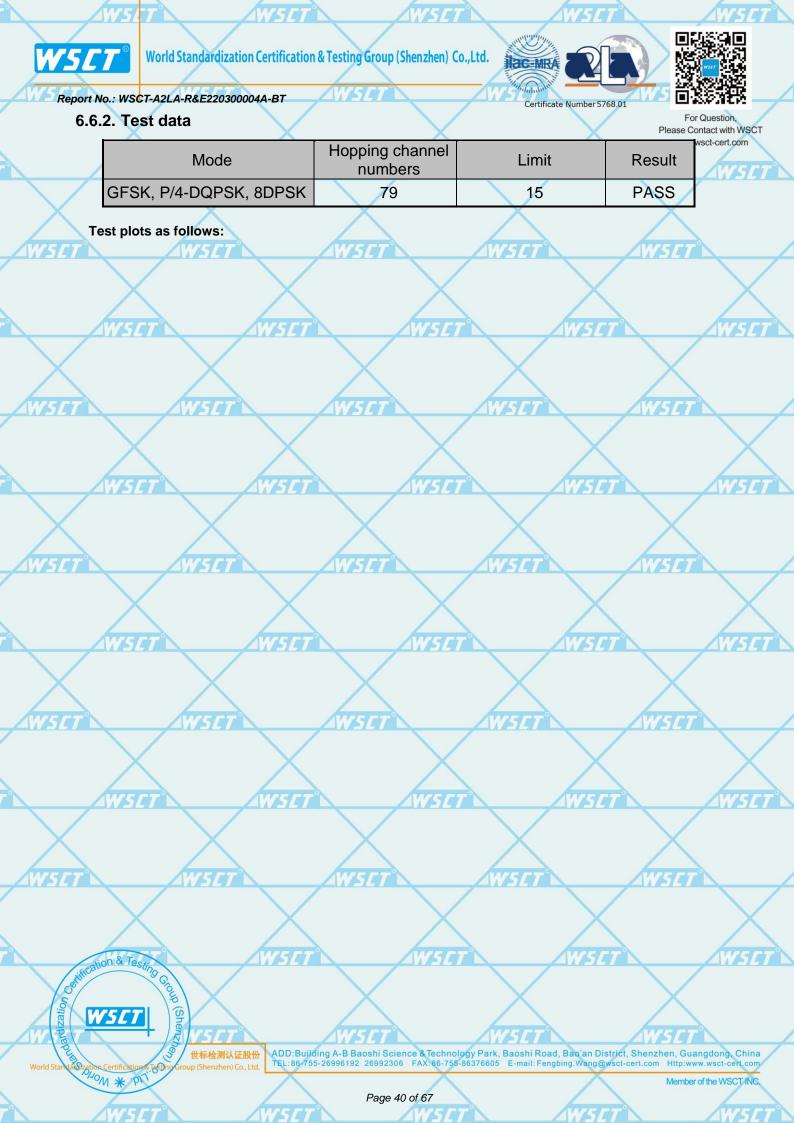
		I AWSLI AWSLI	WV 54						
/	Test Requirement:	<ul> <li>FCC Part15 C Section 15.247 (a)(1)</li> <li>ANSI C63.10:2014</li> <li>Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.</li> <li> <b>Spectrum Analyzer EUT</b> Hopping mode 1. The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. The number of hopping frequency used is defined as the number of total channel. 7. Record the measurement data in report.</li></ul>							
	Test Method:	Frequency hopping systems in the 2400-2483.5 MHz							
	Limit:								
7	Test Setup:								
	Test Mode:	Hopping mode							
	Test Procedure:	<ul> <li>Guidelines.</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. Enable the EUT hopping function.</li> <li>5. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>6. The number of hopping frequency used is defined as the number of total channel.</li> </ul>							
	Test Result:	PASS							

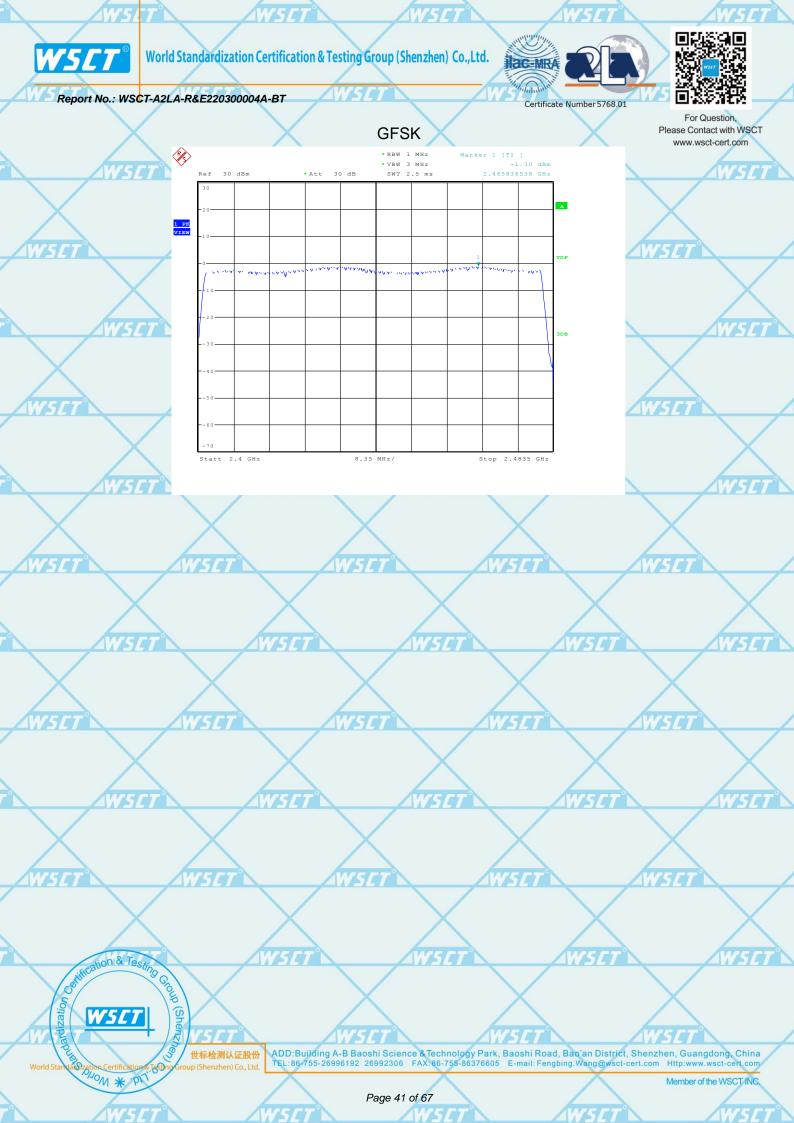
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### 6.7. Dwell Time

#### 6.7.1. Test Specification 5 [7]

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	<ol> <li>The testing follows ANSI C63.10:2014 Measurement Guidelines.</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>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

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#### 6.7.2. Test Data

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	Mode	Packet	Frequency	Package Transfer Time (ms)	Dwell time (second)	Limit (second)	Result	t-cert.com
	GFSK	DH1	2402MHz	0.382	0.122	0.4	PASS	
0	GFSK	DH1	2441MHz	0.382	0.122	0.4	PASS	
	GFSK	DH1	2480MHz	0.382	0.122	0.4	PASS	
	GFSK	DH3	2402MHz	1.638	0.262	0.4	PASS	X
	GFSK	DH3	2441MHz	1.638	0.262	0.4	PASS	wsei
	GFSK	DH3	2480MHz	1.638	0.262	0.4	PASS	
	GFSK	DH5	2402MHz	2.886	0.308	0.4	PASS	
0	GFSK	DH5	2441MHz	2.862	0.305	0.4	PASS	
	GFSK	DH5	2480MHz	2.862	0.305	0.4	PASS	$\searrow$

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate (1600 / 2 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 2 / 79) x (0.4 x 79) = 320 hops

For DH3, With channel hopping rate (1600 / 4 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to  $(1600 / 4 / 79) \times (0.4 \times 79) = 160$  hops

For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

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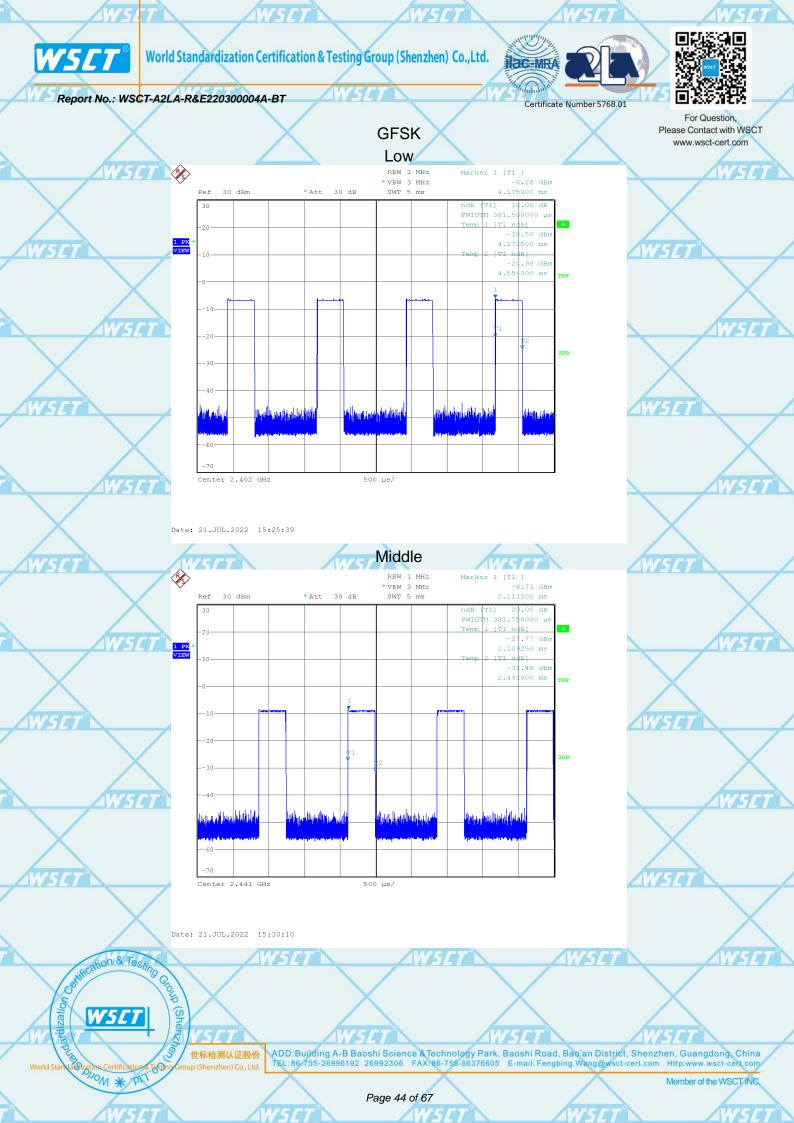
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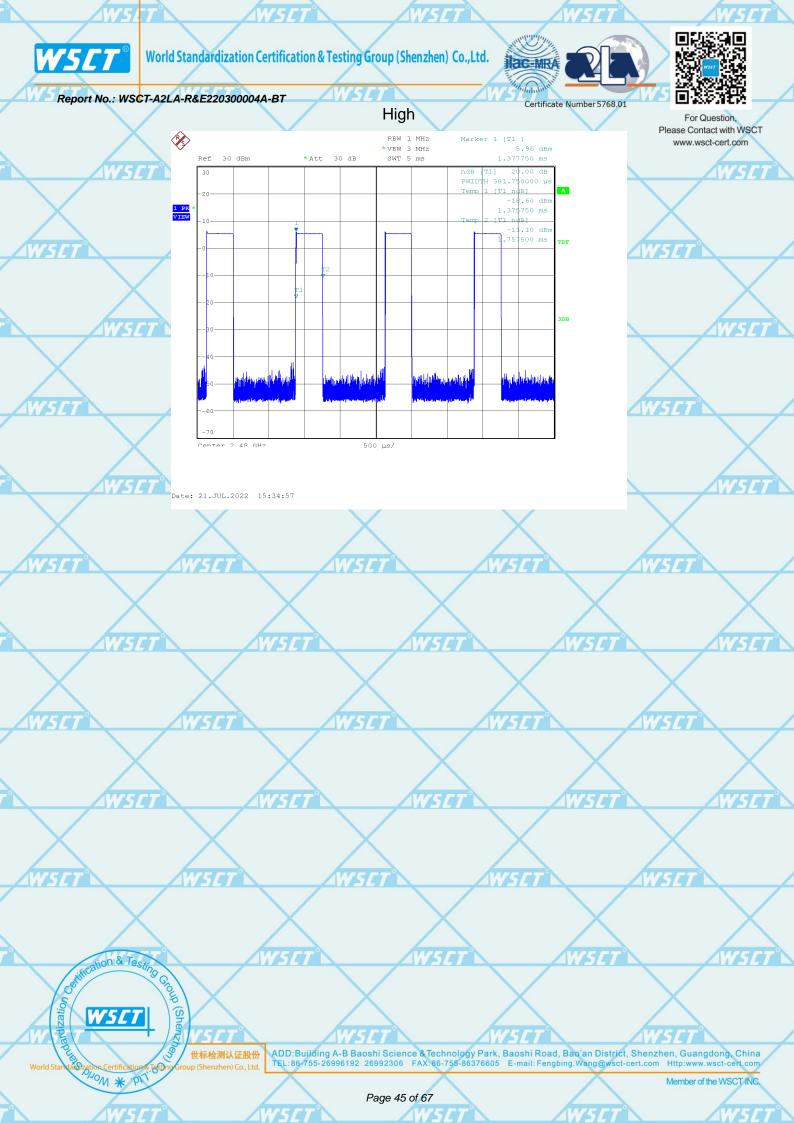
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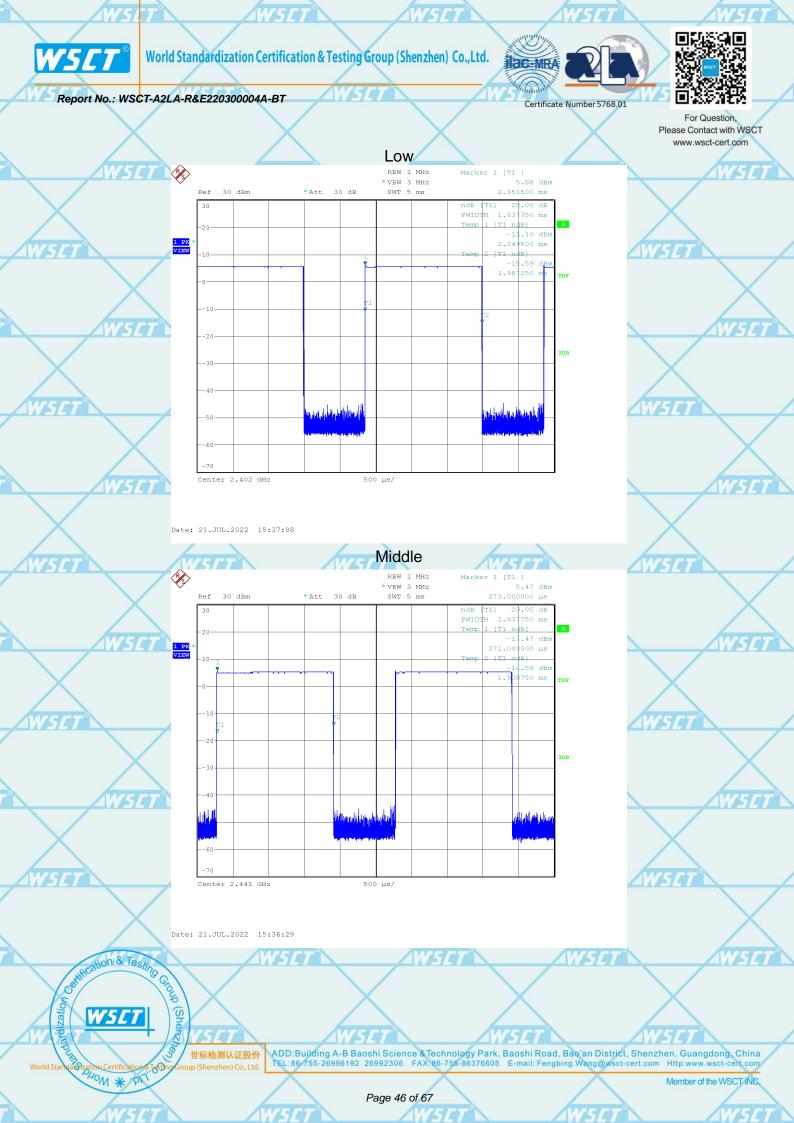
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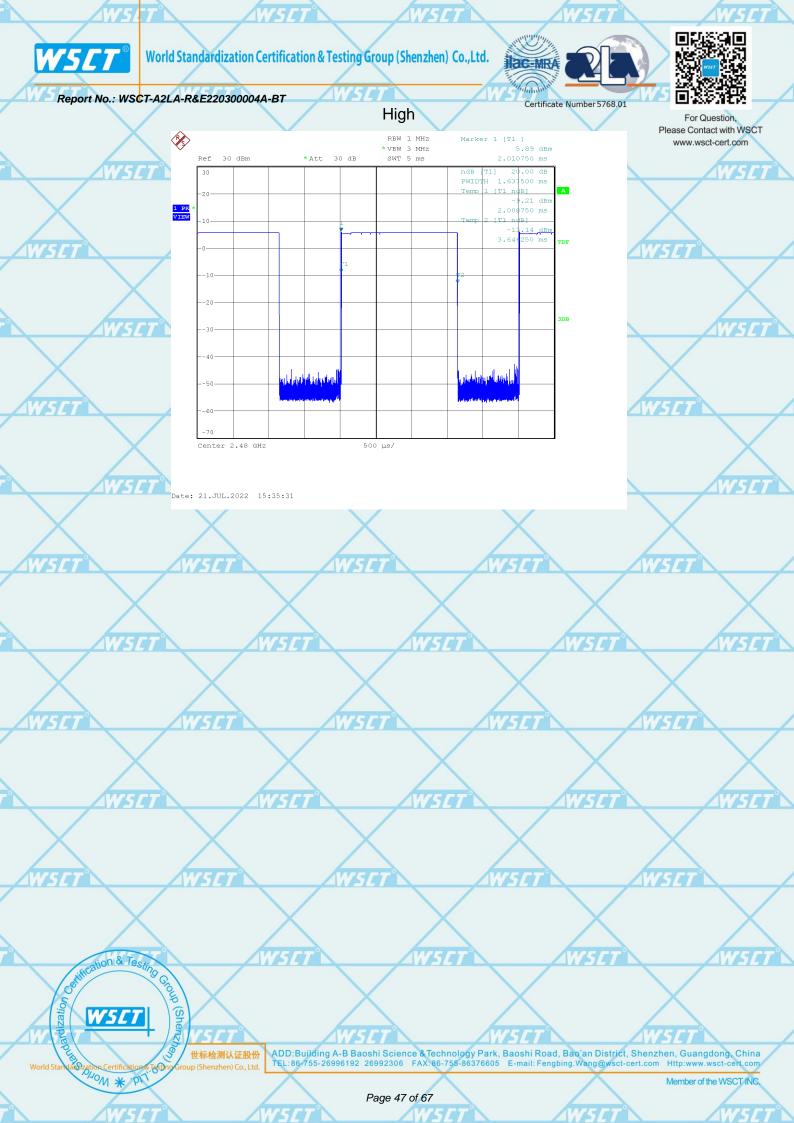
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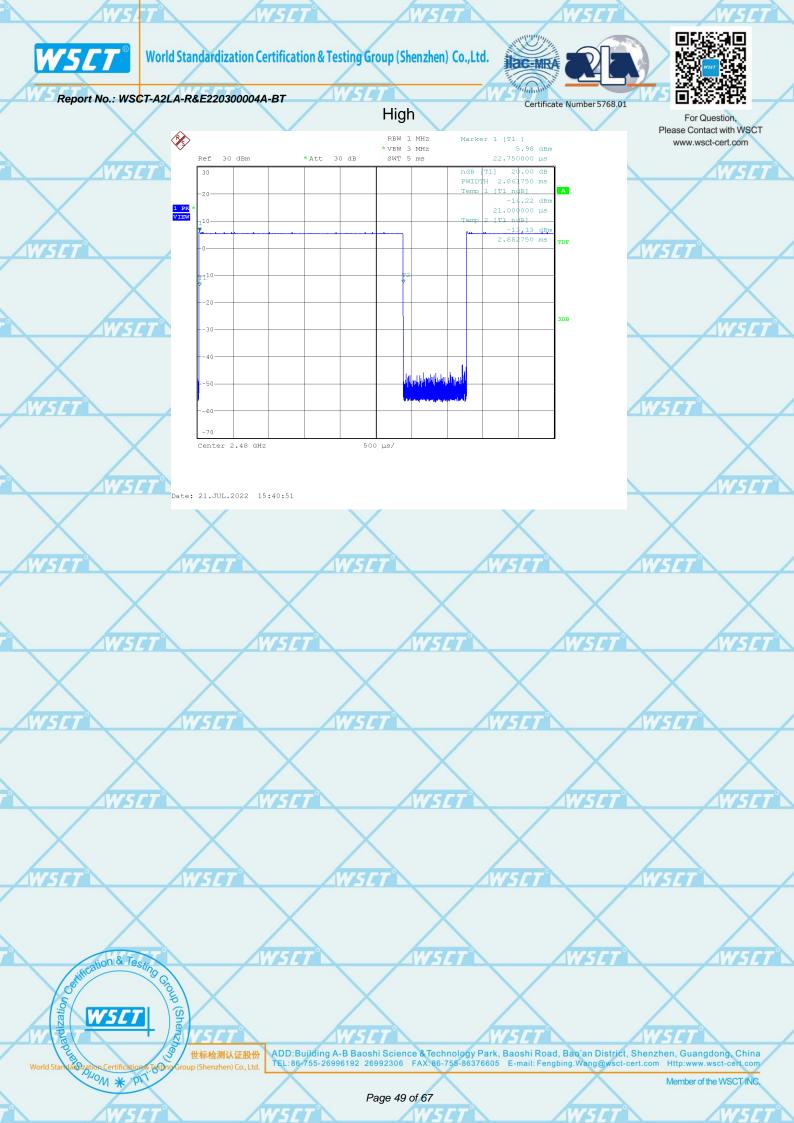














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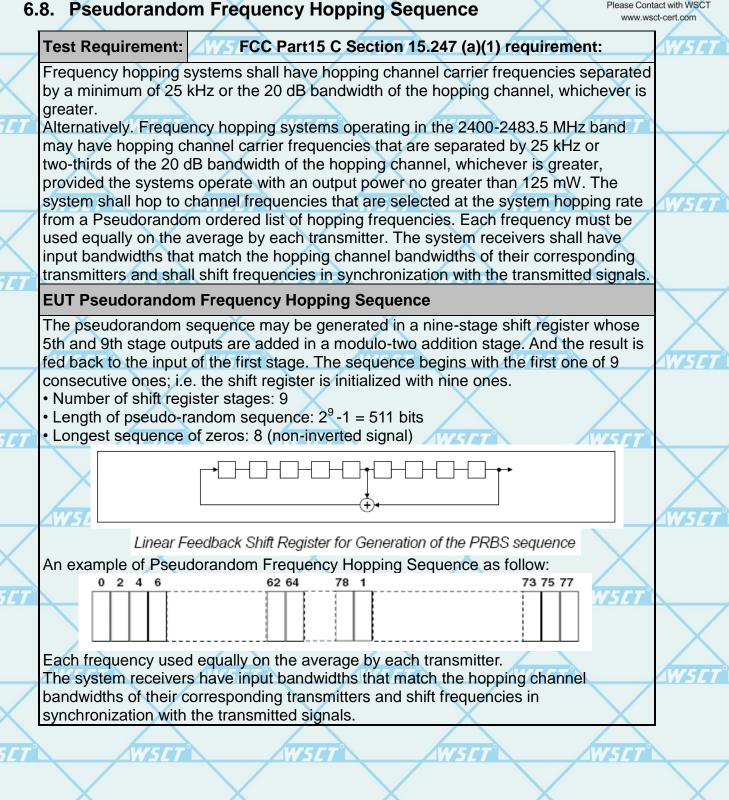




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#### 6.8. Pseudorandom Frequency Hopping Sequence

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## 6.9. Conducted Band Edge Measurement

6.9.1. Test Specification 5

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.</li> <li>Enable hopping function of the EUT and then repeat step 2 and 3.</li> <li>Measure and record the results in the test report.</li> </ol>

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## 6.10. Conducted Spurious Emission Measurement

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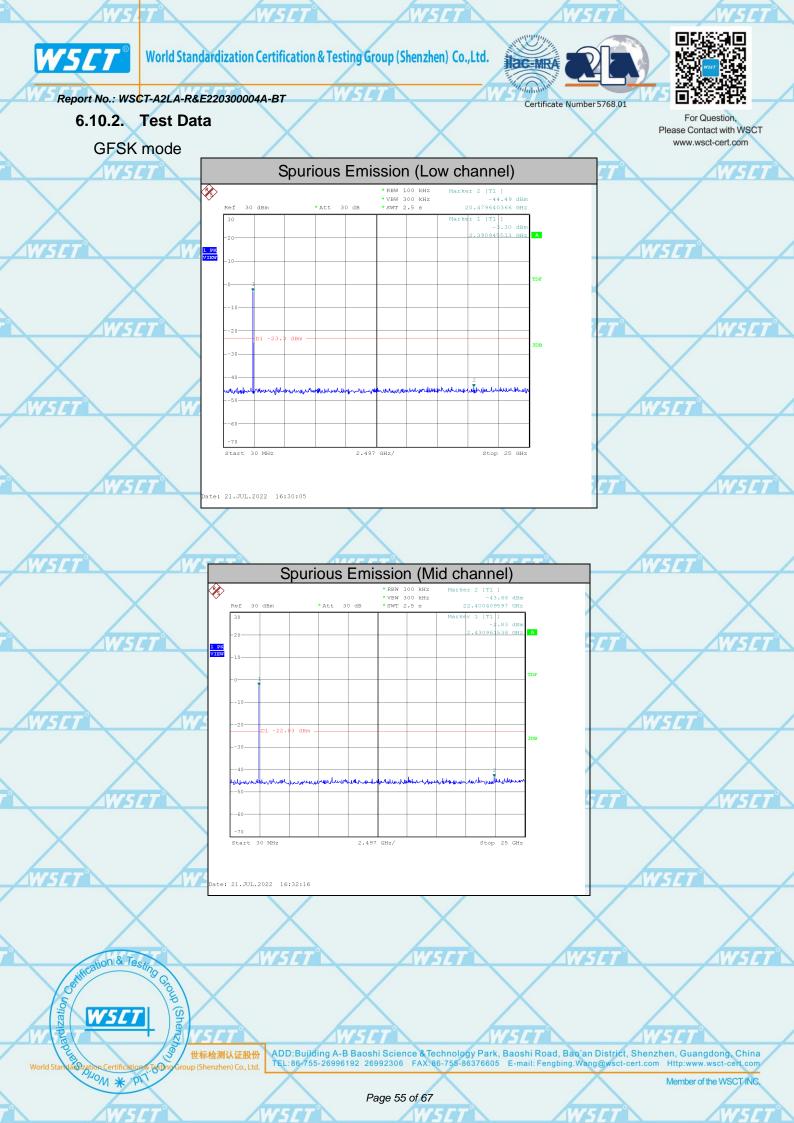
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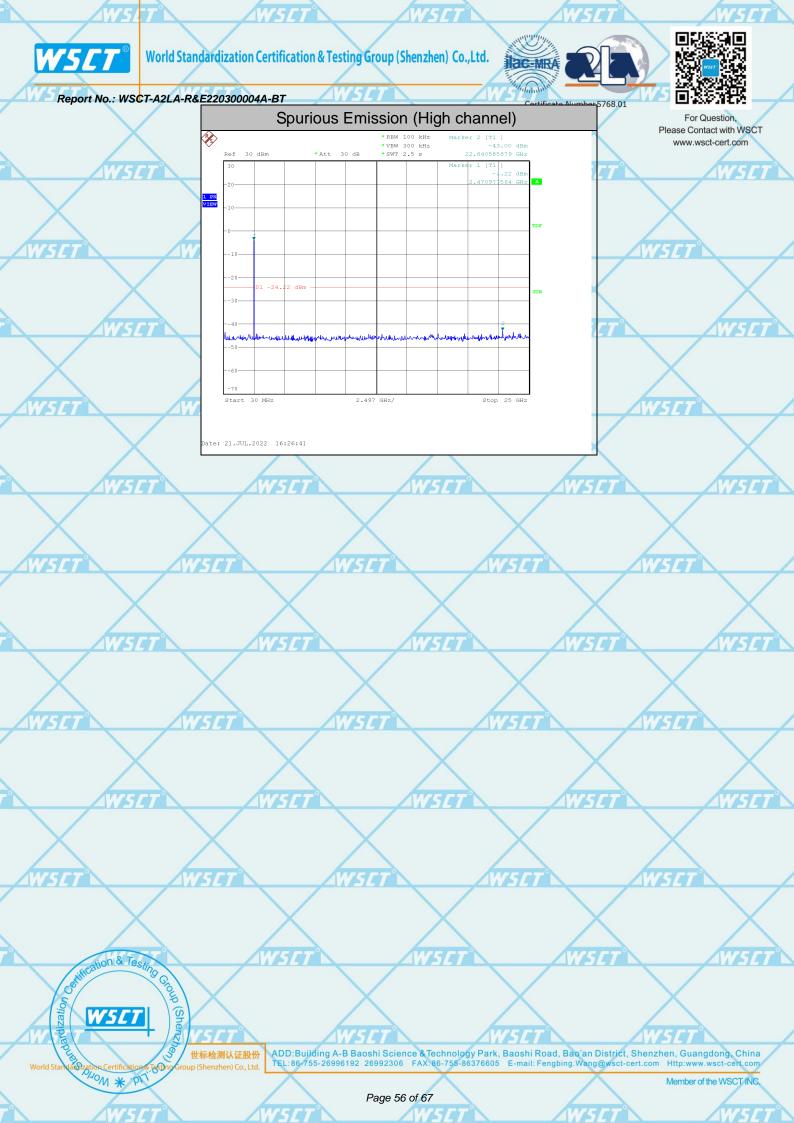
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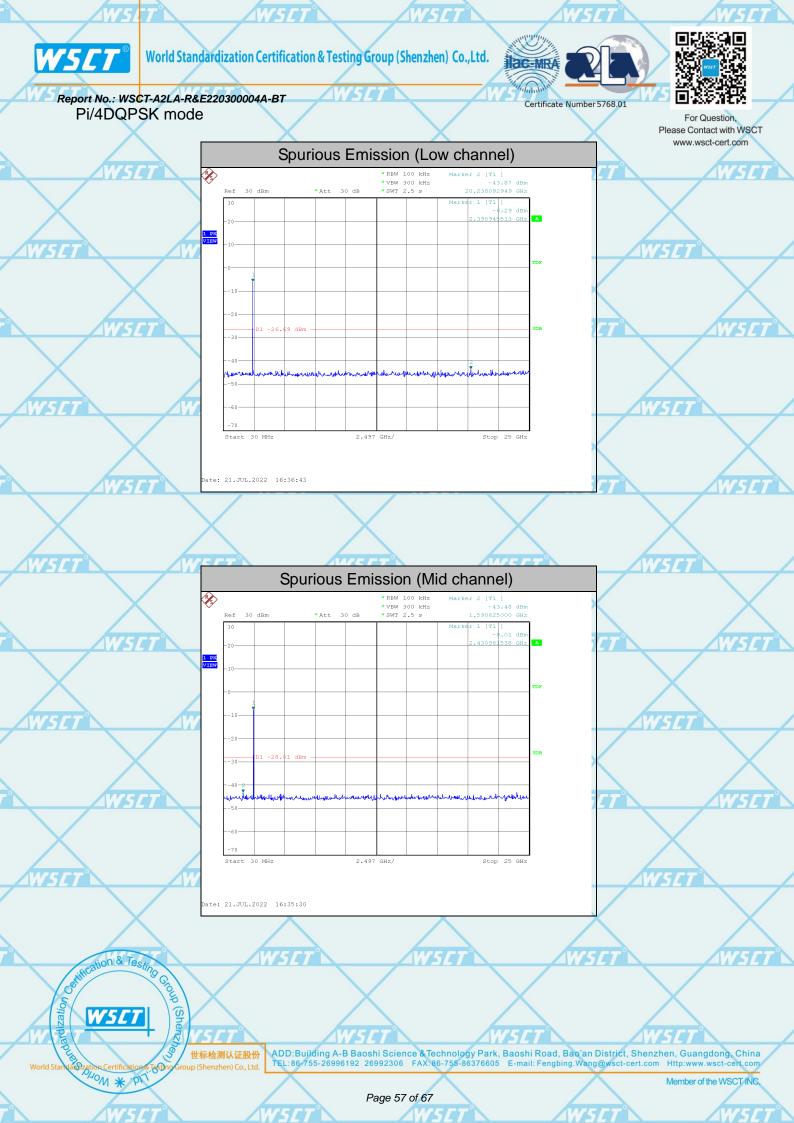
6.10.1. Test Specifica	tion wscr wscr
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines</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>Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
Test Result:	PASS

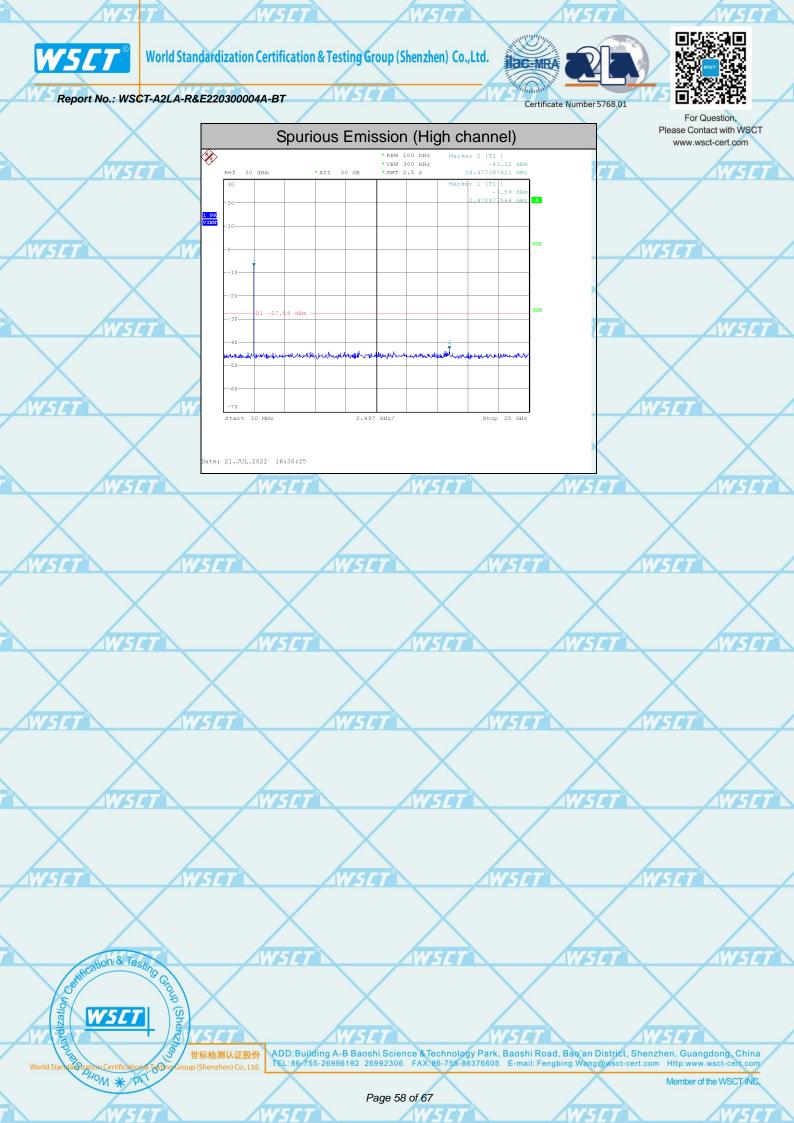
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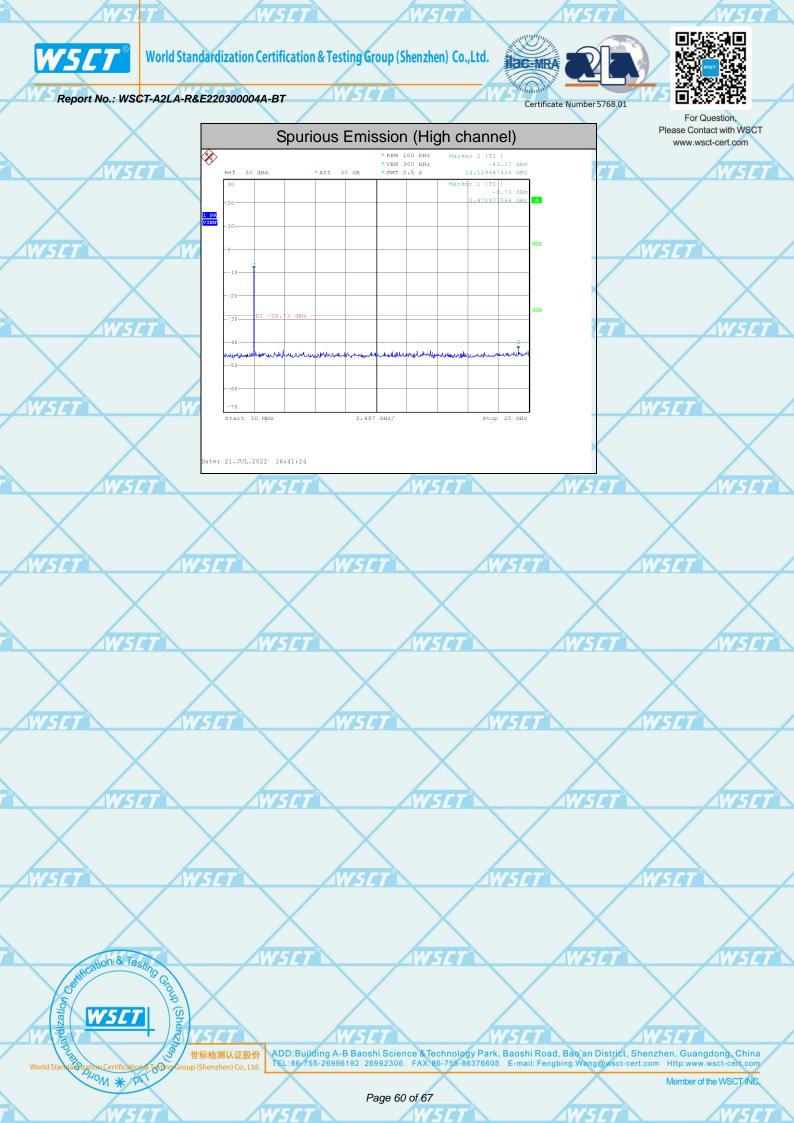














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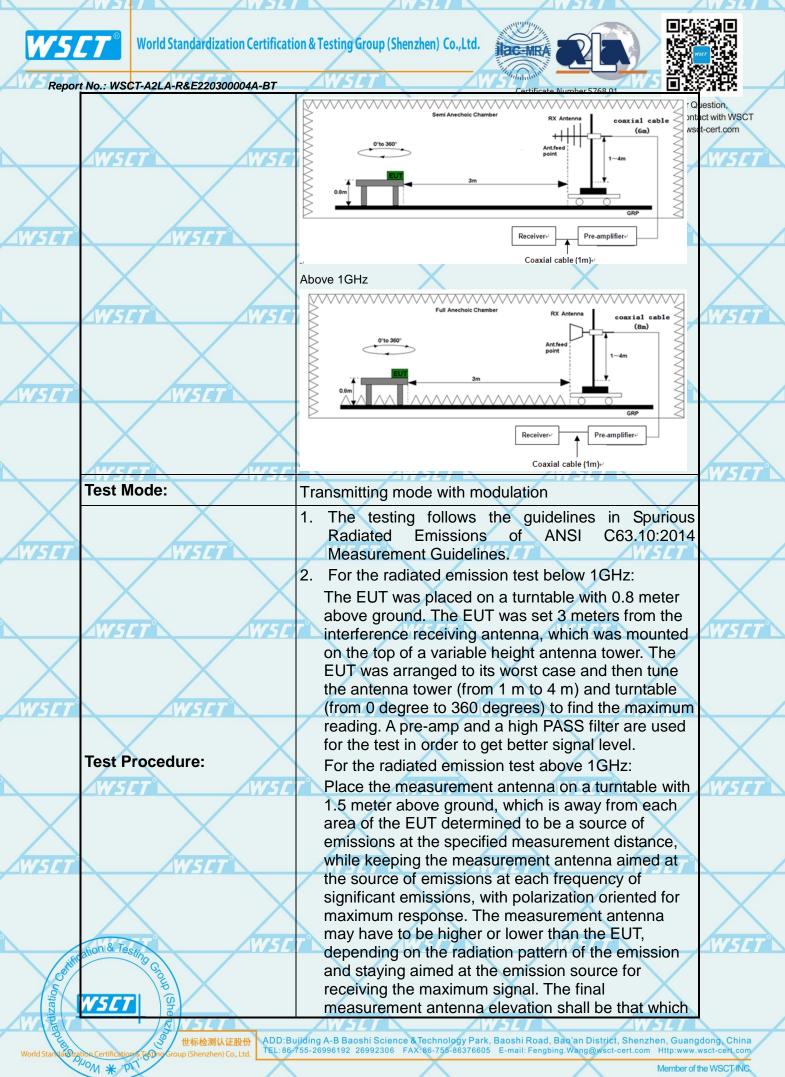


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## 6.11. Radiated Spurious Emission Measurement

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6.11.1. Test Specification Test Requirement: FCC Part15 C Section 15.209 Test Method: ANSI C63.10:2014 **Frequency Range:** 9 kHz to 25 GHz Measurement Distance: 3 m Antenna Polarization: Horizontal & Vertical RBW VBW Frequency Detector Remark 9kHz-150kHz Quasi-peak 200Hz 1kHz Quasi-peak Value 150kHz-Quasi-peak 9kHz 30kHz Quasi-peak Value **Receiver Setup:** 30MHz 100KHz 30MHz-1GHz Quasi-peak 300KHz Quasi-peak Value 3MHz Peak 1MHz Peak Value Above 1GHz Peak 1MHz 10Hz Average Value Field Strength Measurement Frequency (microvolts/meter) Distance (meters) 0.009-0.490 2400/F(KHz) 300 0.490-1.705 24000/F(KHz) 30 1.705-30 30 30 100 30-88 3 88-216 150 3 Limit: 216-960 200 3 Above 960 500 3 Measurement **Field Strength** Frequency Distance Detector (microvolts/meter) (meters) 500 3 Average Above 1GHz 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Compute Pre -Amplifier Test setup: EUT Turn table Receiver Ground Plane 30MHz to 1GHz tion & Testin S NSCI ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992306 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com 世标检测认证股份 E-mail: Fengbing.Wa M \* PI



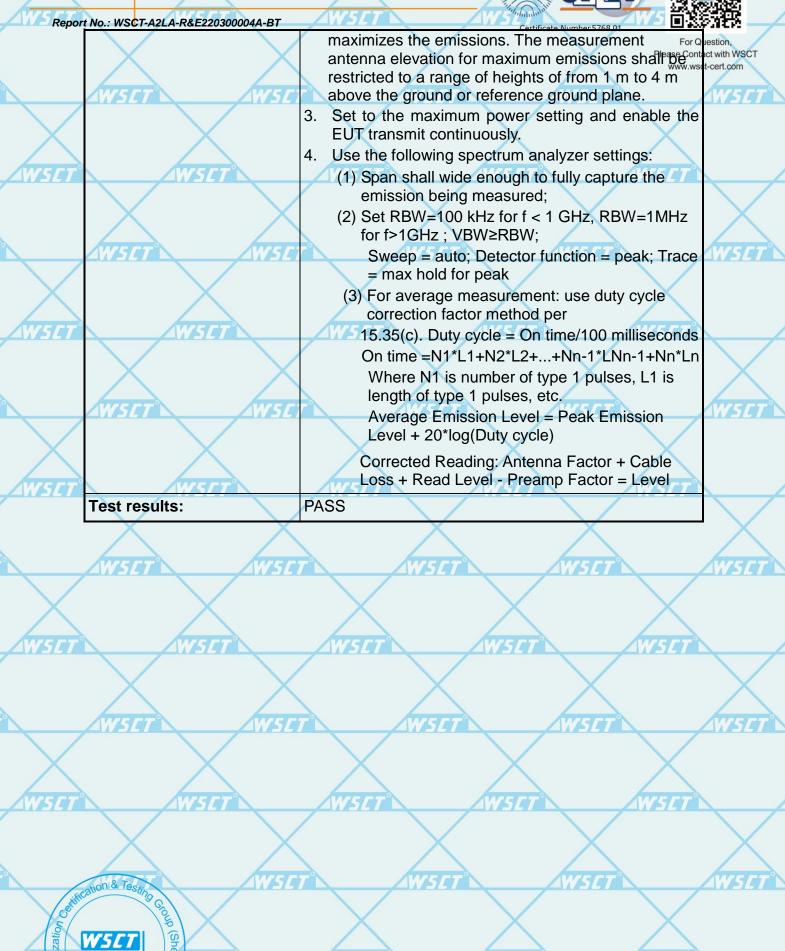


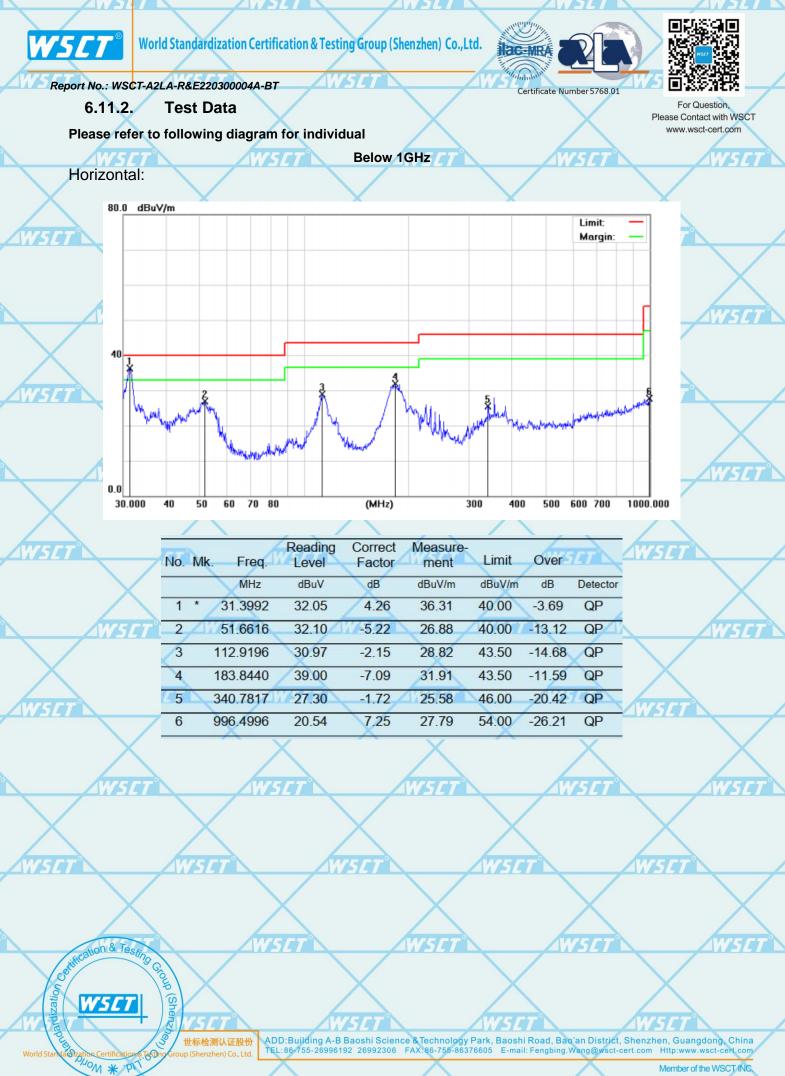
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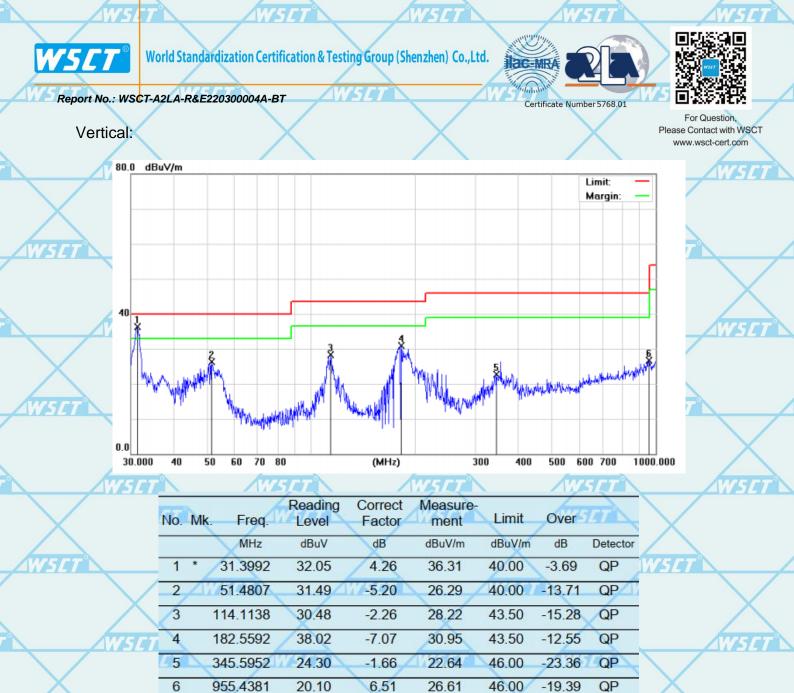








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**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Lowest channel and GFSK) was submitted only.

3.Reading level  $(dB\mu V) = Receiver reading$ Corr. Factor (dB) = Attenuation factor + Cable lossLevel  $(dB\mu V) = Reading level (dB\mu V) + Corr. Factor (dB)$ Limit  $(dB\mu V) = Limit stated in standard$ Margin  $(dB) = Level (dB\mu V) - Limits (dB\mu V)$ 

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## Above 1GHz

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GF	SK							www.wsc
	Free			Low cha	nnel: 2402	2MHz		
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	(MHz)	H/V	PK	AV	PK	AV	PK	AV
	4804	V	59.33	40.23	74	54	-14.67	-13.77
<b>7</b> °ì	7206	WSV7	59.78	39.69	74	54	-14.22	-14.31
	4804	H	59.94	39.98	74	54	-14.06	-14.02
	7206	H	58.55	39.55	74	54	-15.45	-14.45

Frog	Middle channel: 2441MHz							
Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Over(dB)		
	H/V	PK	AV	PK	AV	PK	AV	
4882	V	60.14	41.10	74	54	-13.86	-12.90	
7323 🗸	w5V7°	58.08	40.10	74	54577	-15.92 🧹	-13.90	
4882	Н	59.36	40.24	74	54	-14.64	-13.76	
7323	Н	58.71	39.71	74	54	-15.29	-14.29	

Frog	High channel: 2480MHz								
Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Over(dB)			
(10112)	H/V	PK	AV	PK	AV	PK	AV		
4960	V	59.83	39.94	74	54	-14.17	-14.06		
7440 🧹	wsV-7°	59.81	39.28	74	w < 54	-14.19	-14.72		
4960	Н	58.34	40.68	74	54	-15.66	-13.32		
7440	Н	59.05	40.05	74	54	-14.95	-13.95		

#### Note:

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- 1. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 2. 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.

世标检测认证股份 ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China Group (Shenzhen) Co. Ltd. TEL: 86-755-26996192 26992306 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com



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WSET

# Certificate Number 5768.01



For Question, Please Contact with WSCT www.wsct-cert.com

#### Report No.: WSCT-A2LA-R&E220300004A-BT Restricted Bands Requirements

Test result	for GFSK M	ode(the w	orst case)				www.w	
Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector	
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V		$\checkmark$
			Low Cha	nnel			/	
2387	64.35	-8.76	55.59	74	18.41	7°N	PK	5ET°
2387	55.78	-8.76	47.02	54	6.98	н	AV	
2387	61.19	-8.76	52.43	74	21.57	V	PK	
2387	54.92	-8.76	46.16	54	7.84	V	AV	
2390	62.27	-8.73	53.54	74	20.46	H	PK	1
2390	57.80	-8.73	49.07	54	4.93	н	AV	X
2390	61.43	-8.73	52.70	74	21.30	V	PK	
2390	56.61	-8.73	47.88	54	6.12	V	AV	527
			High Cha	innel 💛				
2483.5	62.48	-8.17	54.31	74	19.69	н /	PK	
2483.5	54.19	-8.17	46.02	54 57	7.98	Hws	AV	
2483.5	60.85	-8.17	52.68	74	21.32	V	PK	/
2483.5	54.71	-8.17	46.54	54	7.46	V	AV	X
Note: Frea. = E	mission frequen	cv in MHz						

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Note: Freq. = Emission frequency in MHz

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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  $(dB\mu V)$ 

\*\*\*\*\*END OF REPORT\*\*\*\*\*

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