



FCC Test Report

Report No.: HK2306272698-E

FCC PART 15 SUBPART C 15.247

Test report
On Behalf of
Daximen (Shenzhen) Technology Co., Ltd.
For
Wireless Headset
Model No.: G3

FCC ID: 2BBOA-G3

Prepared for: Daximen (Shenzhen) Technology Co., Ltd.

2002, Chuanghui Building, Wuhe Community, Bantian Street, Longgang District,

Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai

Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Jun. 27, 2023 ~ Jul. 04, 2023

Date of Report: Jul. 04, 2023

Report Number: HK2306272698-E

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Test Result Certification

Report No.: HK2306272698-E

Applicant's Name	Daximen (Shenzhen) Technology	Co., Ltd.
------------------	-------------------	--------------	-----------

Address 2002, Chuanghui Building, Wuhe Community, Bantian Street,

Longgang District, Shenzhen, China

Manufacture's Name...... Daximen (Shenzhen) Technology Co., Ltd.

Longgang District, Shenzhen, China

Product Description

Trade Mark: N/A

Product Name: Wireless Headset

Model and/or type reference .: G3

Standards 47 CFR FCC Part 15 Subpart C 15.247

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HUAK Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen HUAK Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Date of Test

Date (s) of Performance of Tests Jun. 27, 2023 ~ Jul. 04, 2023

Test Result.....Pass

Prepared by:

Project Engineer

Reviewed by:

Project Supervisor

Approved by:

Technical Director



			Table of Contents		Page
1.	Sum	nmary	D _{Mon.}	- Allen Control	
	1.1.	Test Standards			
	1.2.	Test Description			
	1.3.	Test Facility			
	1.4.	Statement of the Measurement l			
2.	Gen	eral Information			
	2.1.	Environmental Conditions	TESTING	TESTING	
	2.2.	General Description of EUT	TE TIME	HUAN	CTING.
	2.3.	Description of Test Modes and Te			
	2.4.	Equipments Used during the Test			
	2.5.	Related Submittal(s) / Grant (s)			
	2.6.	Modifications		HUAN	1
	2.7.	Description of Test Setup		STILL STILL	10
3.	Test	Conditions and Results	W HOW	, HUAL	1
	3.1.	Conducted Emissions Test			1:
	3.2.	Radiated Emissions and Band Edg	ge		1
	3.3.	Maximum Peak Conducted Outpo			
	3.4.	20dB Bandwidth			
	3.5.	Frequency Separation			
	3.6.	Number of Hopping Frequency			3
	3.7.	Time of Occupancy (Dwell Time)			
	3.8.	Out-of-Band Emissions			
	3.9.	Pseudorandom Frequency Hoppi			
	3.10.	Antenna Requirement			
4.	Test	Setup Photos of the EUT		W TESTIN	50
5.		tos of the EUT			
٠.					



Page 4 of 52 Report No.: HK2306272698-E

** Modified History **

Revision	Description	Issued Data	Remark	
Revision 1.0 Initial Test Report Release		Jul. 04, 2023	Jason Zhou	
TING	TING TING	TING	3 TING	

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



1. Summary

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

Report No.: HK2306272698-E

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.215	20dB Bandwidth& 99% Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247 (a) (1)	Pseudorandom Frequency Hopping Sequence	PASS
FCC Part 15.247(a)(1)(iii)	Number of Hopping Frequency& Time of Occupancy	PASS
FCC Part 15.247(a)(1)	Frequency Separation	PASS
FCC Part 15.205/15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK,

this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



1.3. Test Facility

1.3.1 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

1.3.2 Laboratory Accreditation

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 21210

The 3m alternate test site of Shenzhen HUAK Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 21210 on May 24, 2016.

1.4. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen HUAK Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for HUAK laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.37 dB	(1)
Transmitter power Radiated	±3.35 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±3.68%	(1)
Radiated Emission 30~1000MHz	±3.90dB	(1)
Radiated Emission Above 1GHz	±4.28dB	(1)
Conducted Disturbance0.15~30MHz	±2.71dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

AFICATION.

Report No.: HK2306272698-E



2. General Information

2.1. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

<u> </u>	<u> </u>		
Normal Temperature:	25°C		
Relative Humidity:	55 %		
Air Pressure:	101 kPa		

2.2. General Description of EUT

an/G	aug mus	- LOK TO	anyG
Product Name:	Wireless Headset		
Model/Type Reference:	G3	TESTING	
Series Model:	N/A	O HUM	-STI
Model Difference:	N/A MAKETER MINKELL	HUAKTES	HUAKIL
Power Supply:	DC5V From Charging compartmer	nt or DC 3.7V From Batter	-y
Version:	Supported EDR	DIM	10.0
Modulation:	GFSK, π/4DQPSK, 8DPSK	HUAKTES	HUAKTE
Operation Frequency:	2402MHz~2480MHz	-16	9
Channel Number:	79	WANTESTI.	STING
Channel Separation:	1MHz	O HU	AKTE
Antenna Type:	PCB Antenna	V TESTING	
Antenna Gain:	3.19dBi	O HUM	TESTI
Hardware Version:	V2	O HUAK I	HUAN
Software Version:	V2		

Note: For more details, refer to the user's manual of the EUT.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Report No.: HK2306272698-E

There are 79 channels provided to the EUT and Channel 00/39/78 was selected for testing.

Operation Frequency:

operation i requent	- W	JrU	- UDF	
	Channel	(3)	Frequency (N	MHz)
	00		2402	
LAKTESTIN	01	MAKTEST	2403	LAKTESTIN
0,	: auG	0,	ang.	9
	38		2440	
	39		2441	
HILL ON HOUSE	40	HOLE OF THE PERSON OF THE PERS	2442	0,11
	:		:	
TING	77	CTING	2479	3 CTNG
	78		2480	

Note: The line display in grey were the channel selected for testing

Preliminary tests were performed in each mode and packet length of BT, and found worst case as bellow, finally test were conducted at those mode and recorded in this report.

Test Items	Worst case
Conducted Emissions	Charging mode
Radiated Emissions and Band Edge	DH5
Maximum Conducted Output Power	DH5/2DH5/3DH5
20dB Bandwidth&99% Bandwidth	DH5/2DH5/3DH5
Frequency Separation	DH5/2DH5/3DH5 Middle channel
Number of hopping frequency	DH5/2DH5/3DH5
Dr. Dr.	DH1/DH3/DH5 Middle channel
Time of Occupancy (Dwell Time)	2DH1/2DH3/2DH5 Middle channel
TESTIAL HUAN	3DH1/3DH3/3DH5 Middle channel
Out-of-band Emissions	DH5/2DH5/3DH5

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



2.4. Equipments Used during the Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
KTETING	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	⁰ 1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	1 Year
7.	EMI Test Receiver	VII Test Receiver Rohde & Schwarz	ESR-7	HKE-010	Feb. 17, 2023	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 17, 2023	1 Year
9.	Loop Antenna	Loop Antenna Schwarzbeck		HKE-014	Feb. 17, 2023	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 17, 2023	_o 1 Year
12.	EMI Tost Software		83051A	HKE-016	Feb. 17, 2023	1 Year
13.			4	JS1120-B Version	HKE-083	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19	Power meter	Agilent	E4419B	HKE-085	Feb. 17, 2023	1 Year
20	Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 17, 2023	1 Year

The calibration interval was one year

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

Report No.: HK2306272698-E

2.6. Modifications

No modifications were implemented to meet testing criteria.

2.5. Related Submittal(s) / Grant (s)

2.7. Description of Test Setup

Operation of EUT during conducted testing and radiation below 1GHz testing:



Operation of EUT during radiation above 1GHz testing:



Adapter information

Model: HW-090200CH0

Input: 100-240V, 50/60Hz, 0.5A Output: DC5V/2A or 9V/2A

The sample was placed (0.8m 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. The worst case is X position

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



3. Test Conditions and Results

3.1. Conducted Emissions Test

Limit

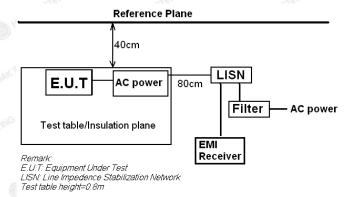
According to FCC CFR Title 47 Part 15 Subpart C Section 15.207 and RSS Gen 8.8, AC Power Line Conducted Emissions Limits for License-Exempt Radio Apparatus as below:

Report No.: HK2306272698-E

Francis (MIII)		Limit (dBuV)				
Frequency range (M	IMZ)	Quasi-peak	Average			
0.15-0.5	(iii)	66 to 56*	56 to 46*			
0.5-5	N TESTING	56	46			
5-30	HOW	60	50 TESTING			

^{*} Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- 4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

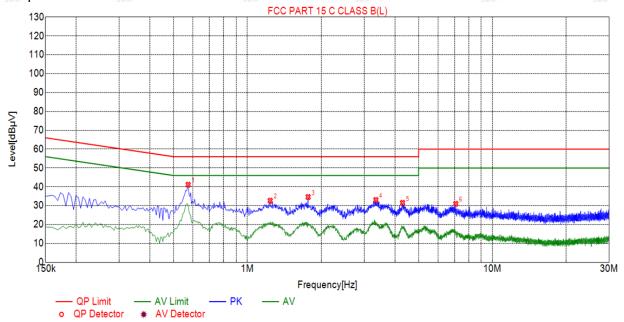


Test Results

PASS

Only the worst result was reported as below.

Test Specification: Line



,	Suspected List									
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
9	1	0.5730	41.14	20.05	56.00	14.86	21.09	PK	L	
	2	1.2390	32.69	20.09	56.00	23.31	12.60	PK	L	
ž	3	1.7700	34.62	20.14	56.00	21.38	14.48	PK	L	
	4	3.3450	33.05	20.24	56.00	22.95	12.81	PK	L	
	5	4.2990	31.51	20.25	56.00	24.49	11.26	PK	L	
,	6	7.0890	31.00	20.19	60.00	29.00	10.81	PK	L	

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

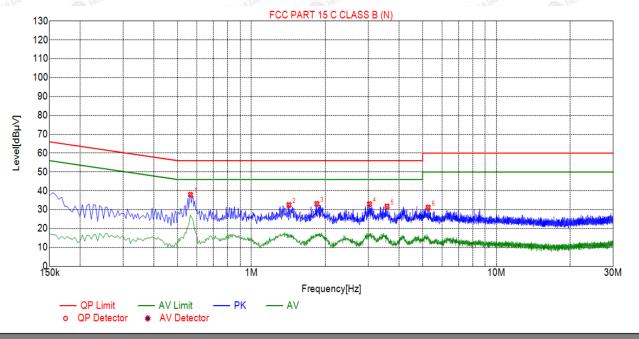
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

HUPIL



Report No.: HK2306272698-E

Test Specification: Neutral



Sus	spected	l List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.5640	37.94	20.06	56.00	18.06	17.88	PK	N
2	1.4235	32.52	20.11	56.00	23.48	12.41	PK	N
3	1.8510	33.14	20.14	56.00	22.86	13.00	PK	N
4	3.0345	32.97	20.22	56.00	23.03	12.75	PK	N
5	3.5790	31.72	20.25	56.00	24.28	11.47	PK	N
6	5.2665	31.16	20.26	60.00	28.84	10.90	PK	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



3.2. Radiated Emissions and Band Edge

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

Report No.: HK2306272698-E

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

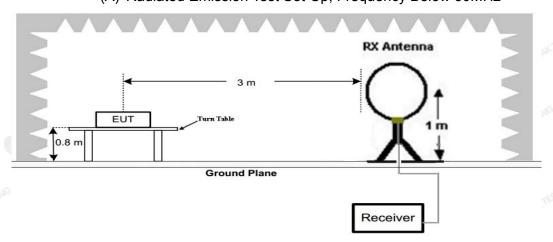
Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Radiated emission limits

- Allen		Alla	iated erriceien innite	All from	
Frequenc	cy (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)	
0.009	-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)	
0.49-	1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)	
1.70	5-30	3	20log(30)+ 40log(30/3)	30	
30-	-88	3	40.0	100	
88-2	216	3	43.5	150	
216-	960	3	46.0	200	
Above	e 960	MG MIN 3	54.0	500	

Test Configuration

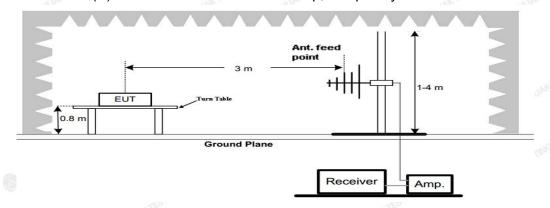
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



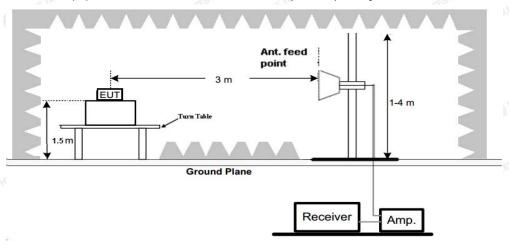
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

(B) Radiated Emission Test Set-Up, Frequency below 1000MHz

Report No.: HK2306272698-E



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.

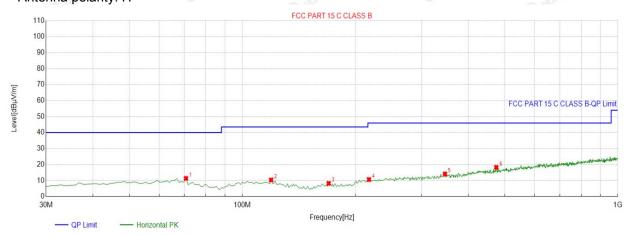


Test Results

Remark:

- 1. Radiated Emission measured at GFSK, $\pi/4$ DQPSK and 8DPSK mode from 9 KHz to 10th harmonic of fundamental and recorded worst case at GFSK DH5 mode.
- There is no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
- 3. For below 1GHz testing recorded worst at GFSK DH5 low channel.

Below 1GHz Test Results: Antenna polarity: H

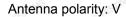


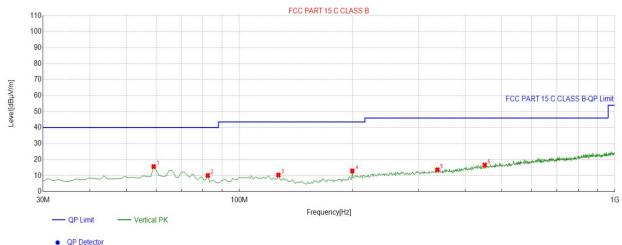
QP Detector

_										
	Suspe	cted List								
	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
Γ	1	70.7808	-16.20	27.55	11.35	40.00	28.65	100	21	Horizontal
	2	119.3293	-15.50	25.88	10.38	43.50	33.12	100	82	Horizontal
	3	169.8198	-17.19	25.43	8.24	43.50	35.26	100	112	Horizontal
	4	217.3974	-14.36	25.00	10.64	46.00	35.36	100	66	Horizontal
	5	346.5365	-11.23	25.34	14.11	46.00	31.89	100	0	Horizontal
	6	474.7047	-7.92	26.18	18.26	46.00	27.74	100	189	Horizontal

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;







Suspe	cted List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	59.1291	-14.56	30.12	15.56	40.00	24.44	100	262	Vertical
2	82.4324	-17.57	27.60	10.03	40.00	29.97	100	5	Vertical
3	127.0971	-16.33	26.66	10.33	43.50	33.17	100	3	Vertical
4	199.9199	-15.27	28.15	12.88	43.50	30.62	100	1	Vertical
5	336.8268	-11.44	25.02	13.58	46.00	32.42	100	27	Vertical
6	450.4304	-8.21	24.78	16.57	46.00	29.43	100	200	Vertical

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

	Frequency (MHz)		Leve	l@3m (dBµV/m)		Limit@3m ((dBµV/m)
STING	STING		STING	STING		ESTING -	STING
	THE HUME	0	HUAKTO	- HUAK I	ly an	JAK 1	HUAKID
	<u> </u>	6	3	1093	0		(a)
3			TWG			TING	

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement



For 1GHz to 25GHz

CH Low (2402MHz) Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	D. MK TEST
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804.00	53.80	-3.65	50.15	74.00	-23.85	peak
4804.00	38.02	-3.65	34.37	54.00	-19.63	AVG
7206.00	50.54	-0.95	49.59	74.00	-24.41	peak
7206.00	44.36	-0.95	43.41	54.00	-10.59	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4804.00	54.50	-3.65	50.85	74.00	-23.15	peak
4804.00	43.37	-3.65	39.72	54.00	-14.28	AVG
7206.00	51.08	-0.95	50.13	74.00	-23.87	peak
7206.00	40.07	-0.95	39.12	54.00	-14.88	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.



Report No.: HK2306272698-E

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

CH Middle (2441MHz) Horizontal:

		1254827		125467		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	[⊚] (dBμV/m)	(dB)	Detector Type
4882.00	56.34	-3.54	52.80	74.00	-21.20	peak
4882.00	42.21	-3.54	38.67	54.00	-15.33	AVG
7323.00	51.67	-0.81	50.86	74.00	-23.14	peak
7323.00	39.64	-0.81	38.83	54.00	-15.17	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
711	(MHz)	(dBµV)	(dB)	(dBµV/m)	。 (dBμV/m)	(dB)	Detector Type
L	4882.00	54.77	-3.54	51.23	74.00	-22.77	peak
L	4882.00	43.40	-3.54	39.86	54.00	-14.14	AVG
L	7323.00	51.03	-0.81	50.22	74.00	-23.78	peak
	7323.00	40.16	-0.81	39.35	54.00	-14.65	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.



CH High (2480MHz) Horizontal:

ACCOUNTS NOT		and UV	6985		an UV	(CARD. 7.)
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastan
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960.00	52.76	-3.43	49.33	74.00	-24.67	peak
4960.00	40.68	-3.44	37.24	54.00	-16.76	AVG
7440.00	53.83	-0.77	53.06	74.00	-20.94	peak
7440.00	41.10	-0.77	40.33	54.00	-13.67	AVG

Report No.: HK2306272698-E

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5	4960.00	55.42	-3.43	51.99	74.00	-22.01	peak
L	4960.00	40.32	-3.44	36.88	54.00	-17.12	AVG
ļ	7440.00	51.49	-0.77	50.72	74.00	-23.28	peak
L	7440.00	40.49	-0.77	39.72	54.00	-14.28	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.



Radiated Band Edge Test:

Hopping

Horizontal (Worst case)

CUIA	C.III.		1119	-CIII4	-c.Ulas	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	54.35	-5.81	48.54	74 HUAK	-25.46	peak
2310.00	1	-5.81	O Your	54	1 6	AVG
2390.00	56.38	-5.84	50.54	74	-23.46	peak
2390.00	ULAK TESTA	-5.84	TESTING / WIAKTE	54	JAK Z.STINE	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

	AND SECTION AND ADDRESS OF THE PARTY OF THE	ESCALE, .	120007	VICENTY .	V	AUDULA .
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	56.48	-5.81	50.67	74	-23.33	peak
2310.00	1	-5.81	1	54	1	AVG
2390.00	55.12	-5.84	49.28	74	-24.72	peak
2390.00	1	-5.84	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Horizontal (Worst case)

P. V.	B(2)	Q185 V	185323		Mile, V	5053733
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	56.88	-5.81	51.07	74	-22.93	peak
2483.50	1	-5.81	1	54	ESTING /	AVG
2500.00	54.64	-6.06	48.58	74 (b) HUM	-25.42	peak
2500.00	1	-6.06	0 1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

Ī	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
P	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
400	2483.50	54.74	-5.81	48.93	74	-25.07	peak
Ī	2483.50	LAK TESTING	-5.81	WAK TESTING	54	1	AVG
3	2500.00	55.34	-6.06	49.28	74	-24.72	peak
ľ	2500.00	This (-6.06	Table 1	54	/ mug	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



NO Hopping

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	56.16	-5.81	50.35	74	-23.65	peak
2310.00	1	-5.81	(a) Horse	54	1 🚷	AVG
2390.00	53.07	-5.84	47.23	74	-26.77	peak
2390.00	WAK TESTING	-5.84	TESTING LUNANTE	54	LAK ESTING	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

			100,000			
Frequen	cy Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	56.66	-5.81	50.85	74	-23.15	peak
2310.00		-5.81	1	54	1	AVG
2390.00	55.94	-5.84	50.1	74	-23.9	peak
2390.00) /	-5.84	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

1		(673)	1000		1985 V	1000
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	55.28	-5.81	49.47	74	-24.53	peak
2483.50	1	-5.81	1	54	ESTING /	AVG
2500.00	54.61	-6.06	48.55	74	-25.45	peak
2500.00	1	-6.06	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	55.84	-5.81	50.03	74	-23.97	peak
2483.50	UM TEST /	-5.81	HUAKTESTA	54	1	AVG
2500.00	54.19	-6.06	48.13	74	-25.87	peak
2500.00	Fine OH	-6.06	TING 1	54	1 TING	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Pamark

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Report No.: HK2306272698-E



3.3. Maximum Peak Conducted Output Power

Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

Туре	Channel	Reading Conducted Output Power (dBm)	Cable loss	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Result
(A)	00	3.85	0.8	4.65	6	HUAKIL
GFSK	39	3.24	0.8	4.04	21.00	Pass
	78	3.41	0.8	4.21		-TING
HUAKTE	00	1.69	0.8	2.49	HUA	TES
π/4DQPSK	39	2.04	0.8	2.84	21.00	Pass
	78	2.09	0.8	2.89	-6	-mG
AK TESTING THE	00	2.3	0.8	3.1	TESTING	AUAK TEST
8DPSK	39	2.53	0.8	3.33	21.00	Pass
	78	2.72	0.8	3.52		

Note: 1. The test results including the cable lose.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



3.4. 20dB Bandwidth

Limit

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

Report No.: HK2306272698-E

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW VBW=approximately 3 X RBW Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recoded.

Test Configuration



Test Results

Modulation	Channel	20dB bandwidth (MHz)	Result
40. O.	CH00	0.966	O HO.
GFSK	CH39	0.972	
LAKTES	CH78	0.978	LAKTESTING
5 O M	CH00	1.362	Mr.
π/4DQPSK	CH39	1.341	Pass
JAK TESTING - JUA	CH78	1.368	- WANTESTING
9	CH00	1.356	.
8DPSK	CH39	1.344	
W TESTING	CH78	1.353	A TESTING

Test plot as follows:

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

20dB bandwidth











3.5. Frequency Separation

Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300 KHz RBW and 1000 KHz VBW.

Test Configuration



Test Results

263	and the last of th	_ C ₁ V ·	25,0	and the second	
Modulation	Channel	Channel Separation (MHz)	Limit(MHz)	Result	
CECK	CH39	1.000	0.652	Door	
GFSK	CH40	1.000	0.652	Pass	
=/4DODSK	CH39	1.009	0.912	Desc	
π/4DQPSK	CH40	1.008	0.912	Pass	
8DPSK	CH39	0.998	0.904	Poop	
ODPSK	CH40	0.990	0.904	Pass	

Note: We have tested all mode at high, middle and low channel, and recorded worst case at middle



Report No.: HK2306272698-E

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

Test plot as follows:





3.6. Number of Hopping Frequency

Limit

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz.

Test Configuration

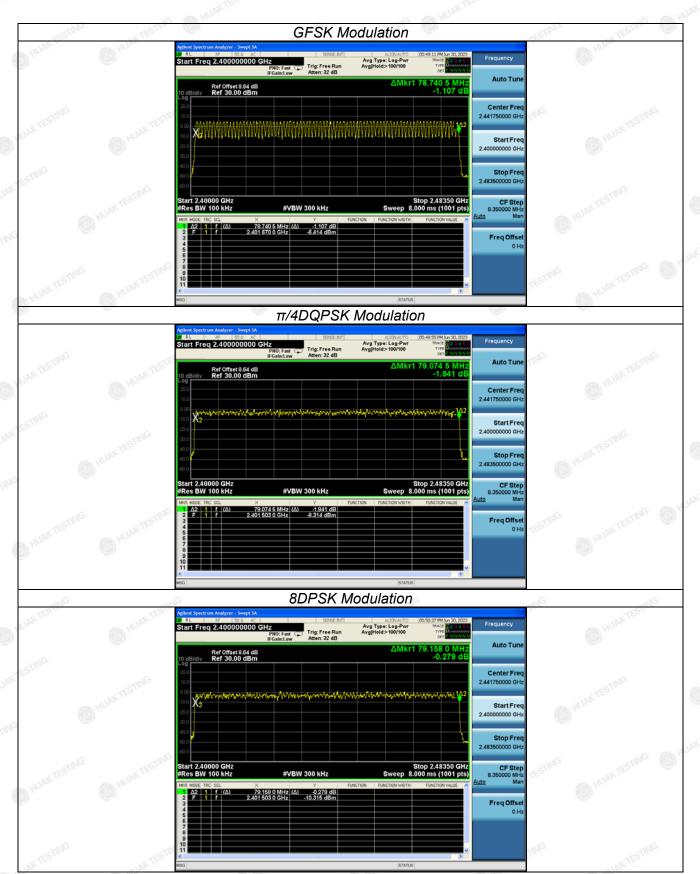


Test Results

Modulation	Number of Hopping Channel	Limit	Result
GFSK	79	9	9
π/4DQPSK	79	≥15	Pass
8DPSK	79 _{MIN}	(a) 1/2	HUAK TES!

Test plot as follows:

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com





3.7. Time of Occupancy (Dwell Time)

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.

Report No.: HK2306272698-E

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and 3MHz VBW, Span 0Hz.

Test Configuration

EUT	IN ESTIVE	SPECTRUM
20.		ANALYZER

Test Results

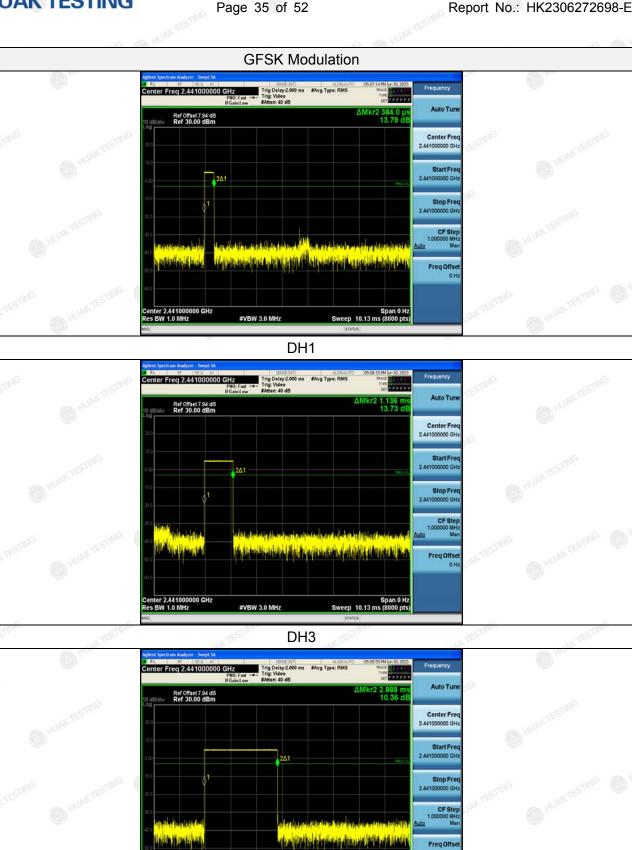
Modulation	Packet	Pulse time (ms)	Dwell time (second)	Limit (second)	Result
TING	DH1	0.384	0.123	STNG	
GFSK	DH3	1.136	0.182	0.40	Pass
	DH5	2.888	0.308	(a) 1	Jan
π/4DQPSK	2-DH1	0.386	0.124	K ESTING	
	2-DH3	1.635	0.262	0.40	Pass
	2-DH5	2.885	0.308	HUAR	M HOW
8DPSK	3-DH1	0.285	0.091		
	3-DH3	1.635	0.262	0.40	Pass
	3-DH5	2.888	0.308	HUAKTL	HUAKIL

Note:

- We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.
- Dwell time=Pulse time (ms) × (1600 ÷ 2 ÷ 79) ×31.6 Second for DH1, 2-DH1, 3-DH1
 Dwell time=Pulse time (ms) × (1600 ÷ 4 ÷ 79) ×31.6 Second for DH3, 2-DH3, 3-DH3
 Dwell time=Pulse time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second for DH5, 2-DH5, 3-DH5

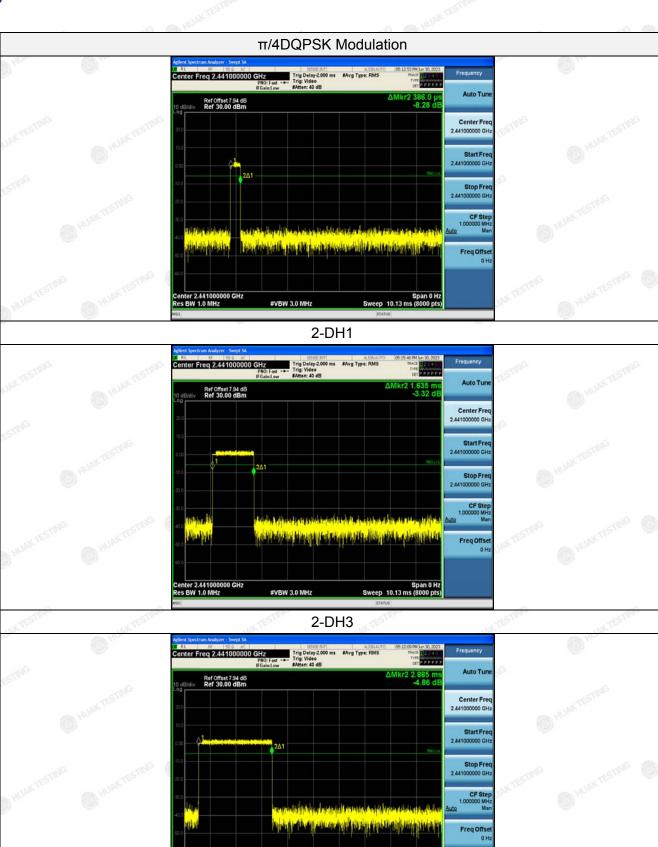
Test plot as follows:

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

DH5



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

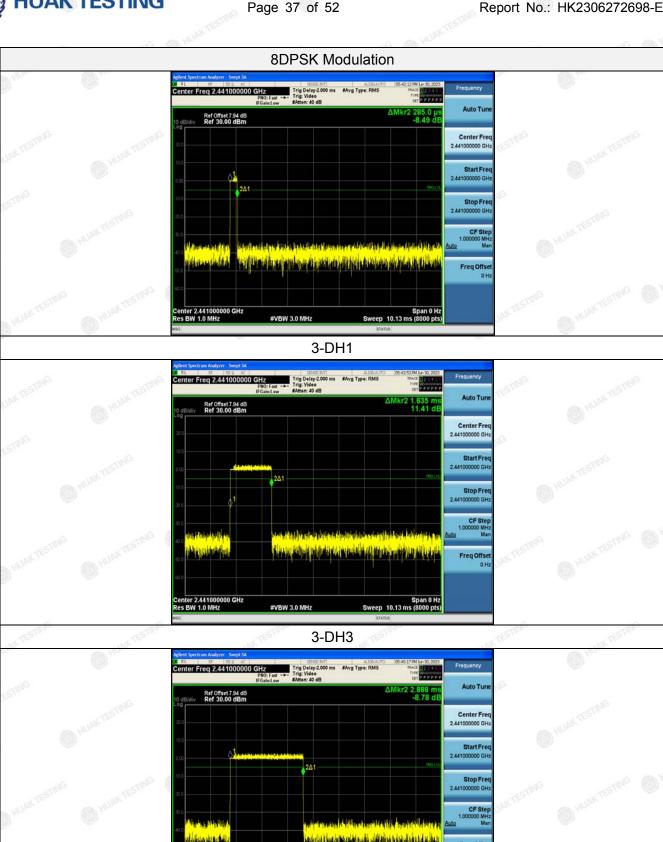
2-DH5

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Report No.: HK2306272698-E



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

3-DH5



3.8. Out-of-Band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Report No.: HK2306272698-E

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these setting are made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration



Test Results

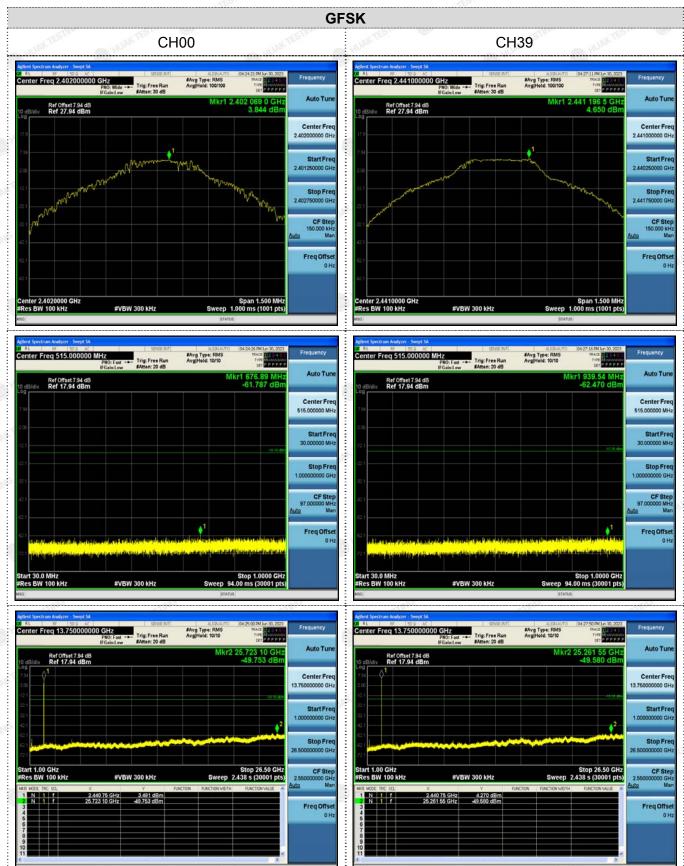
Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

We measured all conditions (DH1, DH3, DH5) and recorded worst case at DH5 and 3DH5

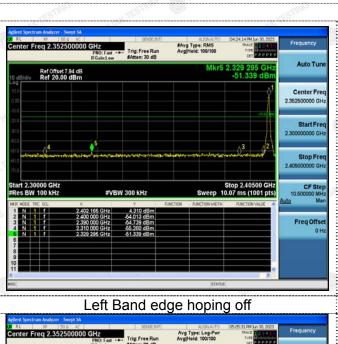
Test plot as follows:

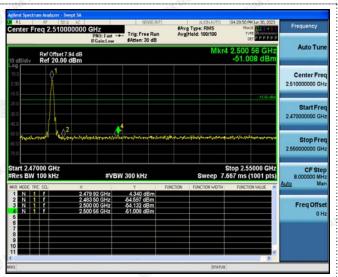
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.co

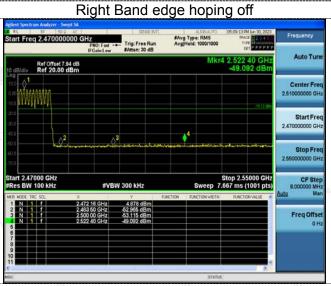
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com







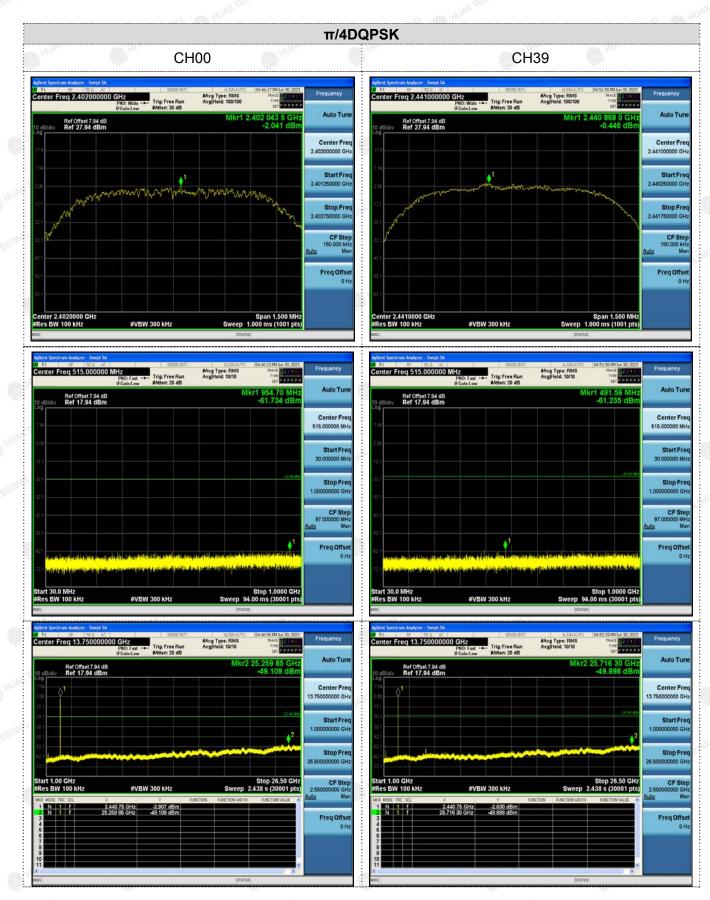




Left Band edge hoping on

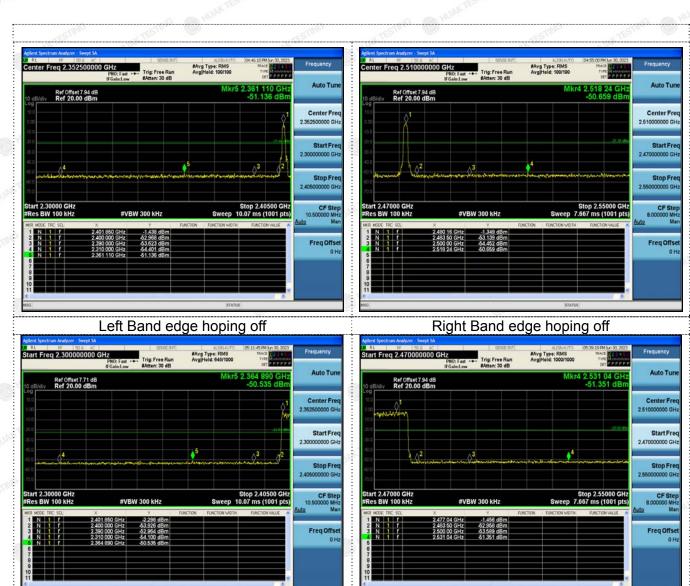
Right Band edge hoping on





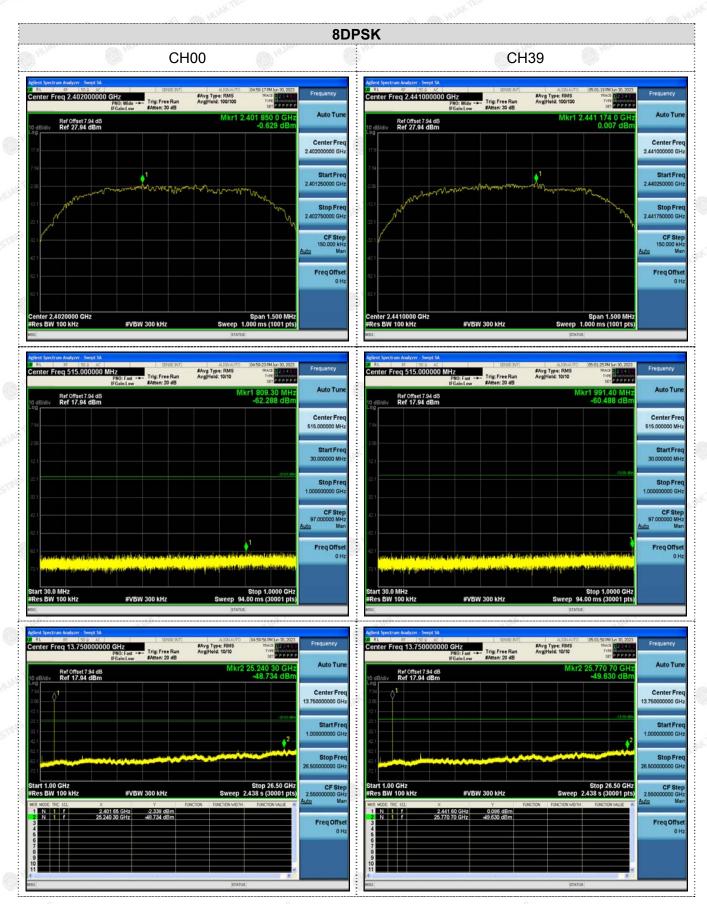




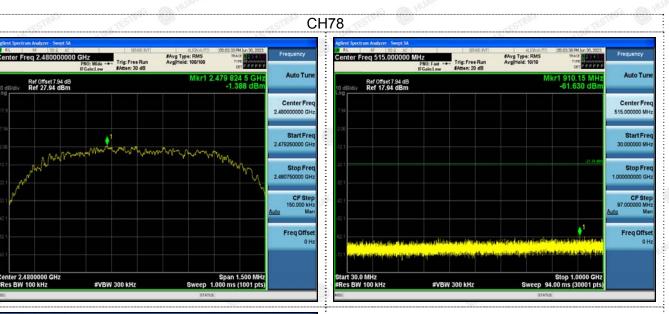


Left Band edge hoping on Right Band edge hoping on

NG

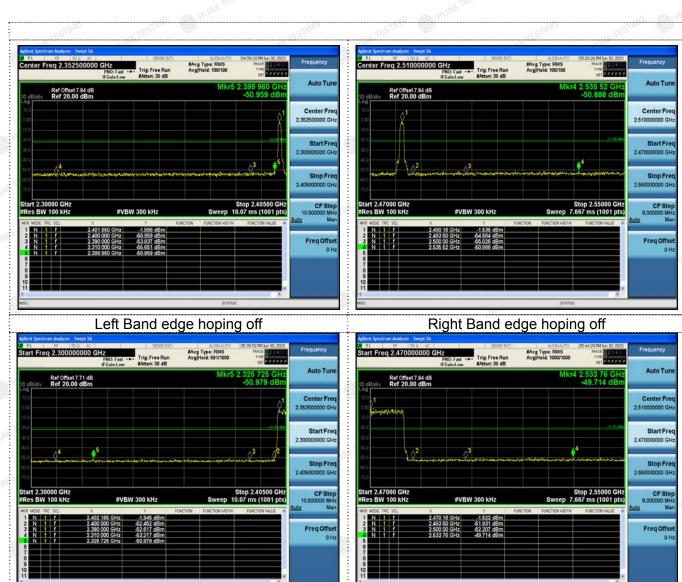








HUAYTESTING



Left Band edge hoping on Right Band edge hoping on



3.9. Pseudorandom Frequency Hopping Sequence

Test Applicable

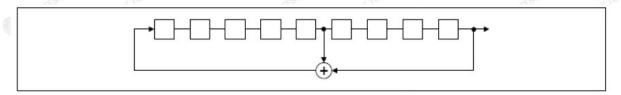
For 47 CFR Part 15C section 15.247 (a) (1):

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

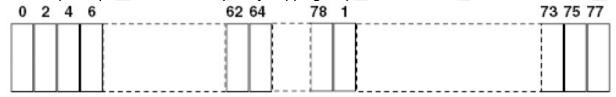
The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

AIFICATION

Report No.: HK2306272698-E





3.10. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

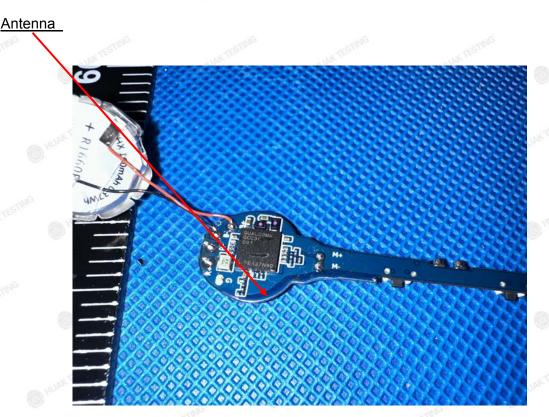
Report No.: HK2306272698-E

Refer to Statement Below for Compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3.19dBi.



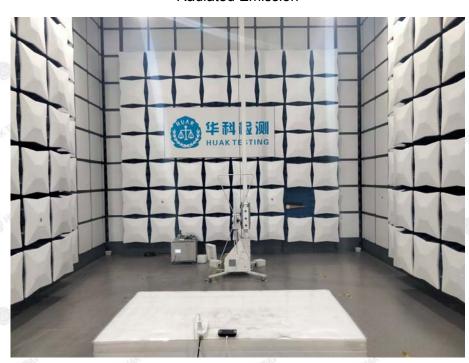
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



4. Test Setup Photos of the EUT

Radiated Emission





The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Report No.: HK2306272698-E



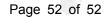
Page 51 of 52 Report No.: HK2306272698-E

Conducted Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com





5. Photos of the EUT

	Enc	d of test report	TESTING	
		d of test report	HUAK TESTING	

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com