## Shenzhen CTA Testing Technology Co., Ltd.



CTATES ... Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

	FCC PART 15.247
Report Reference No.	CTA25041401101
FCC ID	2A48I-P20
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Date of issue:	Apr. 21, 2025
Testing Laboratory Name:	Shenzhen CTA Testing Technology Co., Ltd.
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Applicant's name:	Ningbo Jiufeng Electrical Appliance Co., Ltd.
Address:	No. 268 Binhai road, Binhai New Area, FengHua economic development zone, Ningbo, Zhejiang, China
Address: Test specification:	-
Test specification         Standard         Shenzhen CTA Testing Technology	development zone, Ningbo, Zhejiang, China FCC Part 15.247 / Co., Ltd. All rights reserved.
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# TEST REPORT

Electrice Pedal Exerciser

P20

Equipment under Test

Model /Type

Listed Models

Model difference

Applicant

Address

Manufacturer

Address

JF-H-39FA, JF-H-40UA, JF-H-39F, JF-H-39FA-1, JF-H-39FA-2, JF-H-36AB, JF-H-40Q, JF-H-40QA, JF-H-40LD, JF-H-40CB, JF-H-40M, JF-H-40MB, JF-H-40RA, JF-H-40RC, JF-H-40JC, JF-H-40L, JF-H-39ED, JF-H-39GB, JF-H-39Q, JF-H-39QB, JF-H-42N, JF-H-42NA, JF-H-40JD, JF-H-40J-4, AMS-TM-50, AMS-TM-60, AMS-TM-70, AMS-TM-80, AMS-TM-90, JF-H-40DC, JF-H-40D, JF-H-40E, JF-H-40K, JF-H-40DA, JF-H-40DE, JF-H-40DF, JF-H-40F, JF-H-40F-3, JF-H-42H, JF-H-40DS, JF-H-40NA, HM1, HM2, HM3, HM4, HM5, TP1, TP2, TP3, TP4, TP5, S20, S30, JF-H-50, JF-H-55B, JF-H-55C, JF-H-55E, JF-H-39QA, JF-H-39R, JF-H-39RA, JF-H-39D, JF-H-39DA, JF-H-39DB, JF-H-39DC, JF-H-40V, JF-H-40VA, JF-H-42F, JF-H-42FA, JF-H-42FB, F-H-42FC, JF-H-42FD, JF-H-S40A, JF-H-S40B, JF-H-S40C, JF-H-S40D, JF-H-S40E, JF-H-39EB, JF-H-39G, JF-H-39GA, JF-H-40U, JF-H-42NB, JF-H-425, JF-H-425A, JF-H-425D, JF-H-425DA, JF-H-425D-2, JF-H-425C, JF-H-42C, JF-H-42CA

The PCB board, circuit, structure and internal of these models are the same, Only model number and colour is different for these model.

Ningbo Jiufeng Electrical Appliance Co., Ltd.

No. 268 Binhai road, Binhai New Area, FengHua economic development zone, Ningbo, Zhejiang, China

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Test Result:

PASS

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

# Contents

1	TEST	STANDARDS	4	
2	SUMM	ЛАКҮ	5	
	2.1	General Remarks	5	
	2.2	Product Description	5	
	2.3	Equipment Under Test		
	2.4	Short description of the Equipment under Test (EUT)		
	2.5			
	2.6	EUT configuration EUT operation mode	6	
	2.7	Block Diagram of Test Setup	6	
	2.8	Related Submittal(s) / Grant (s)	6~~7	
	2.9	Modifications	6	
3	TEST	ENVIRONMENT	7	
ST	3.1	Address of the test laboratory		
	3.2	Test Facility		
	3.3	Environmental conditions	7	
	3.4	Summary of measurement results	8	
	3.5	Statement of the measurement uncertainty	8	
	3.6	Equipments Used during the Test		
4	TEST	CONDITIONS AND RESULTS		
	4.1	AC Power Conducted Emission		
	4.2	Radiated Emission		
	4.3	Maximum Peak Output Power	21	
	4.4	20dB Bandwidth	22	
	4.5	Frequency Separation	22	
	4.6	Number of hopping frequency		
	4.7	Time of Occupancy (Dwell Time)		
	4.8	Out-of-band Emissions	25	
	4.9	Pseudorandom Frequency Hopping Sequence	26	
	4.10	Antenna Requirement	27	
	4.11	On Time and Duty Cycle	28	
5	Test S	Setup Photos of the EUT	29	
6	Extern	nal and Internal Photos of the EUT	29	
		C Alle		

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

## 2 SUMMARY

## 2.1 General Remarks

2.1 General Remarks			
Date of receipt of test sample	:	Apr. 14, 2025	
	STORE AN	C/r	
Testing commenced on		Apr. 14, 2025	
	A DECEMBER OF THE OWNER OWNER OF THE OWNER OF THE OWNER OF THE OWNER	1997	CX
Testing concluded on	:	Apr. 21, 2025	

## **Product Description** 2.2

Product Name:	
5 \ '	Electrice Pedal Exerciser
Model/Type reference:	P20
Power supply:	AC 110-120V, 60Hz
Hardware version:	V1.0
Software version:	V1.0
Testing sample ID:	CTA250414011-1# (Engineer sample) CTA250414011-2# (Normal sample)
Bluetooth :	
Supported Type:	Bluetooth BR/EDR
Modulation:	GFSK, π/4DQPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79 TATES
Channel separation:	1MHz
Antenna type:	PCB antenna
Antenna gain:	0.82 dBi

# 2.3 Equipment Under Test

# Power supply system utilised

	-				
Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
CIP.		0	12 V DC	0	24 V DC
GIA			Other (Refer to section 2.2)	)	
North Control of Contr			CTA		TINC
2.4 Short description of the	e Eq	uip	oment under Test (EUT	Г)	CTA
This is a Electrice Pedal Exerciser.		- 1 -			

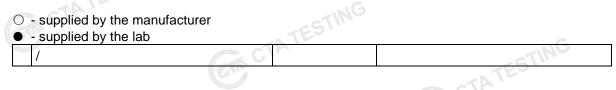
## 2.4 Short description of the Equipment under Test (EUT)

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

Test Software Version	est Software Version Tools software(FCC_assist)						
Frequency	2402 MHz	2441MHz	2480 MHz				
GFSK	3	3	3				
π/4-DQPSK	3	3	3				
	GIA CTA .		CTATESTING				

## 2.5 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

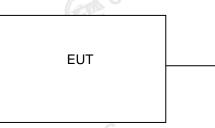


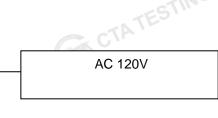
## 2.6 EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing .There are 79 channels provided to the EUT and Channel 00/39/78 were selected to test.

Operation Frequency:						
Operation Frequency:						
Channel		Frequency (MHz)				
00		2402				
01	GAN	2403				
÷		C CTATL				
38		2440				
39		2441				
40		2442				
TING		÷				
77		2479				
78		2480				

## 2.7 Block Diagram of Test Setup





# CTATESTING Related Submittal(s) / Grant (s) 2.8

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

### 2.9 **Modifications**

No modifications were implemented to meet testing criteria.

## 3 TEST ENVIRONMENT

## 3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

## 3.2 Test Facility

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

## FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

## A2LA-Lab Cert, No.: 6534.01

TESTING Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

### ISED#: 27890 CAB identifier: CN0127

Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

### 3.3 Environmental conditions

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

Ra	adiated Emission:		-TA
	Temperature:		24 ° C
		S	
	Humidity:		45 %
	Atmospheric pressure:		950-1050mbar

	Atmospheric pressure:	950-1050mbar	Constanting of the second s
	19		
A	C Power Conducted Emission:		
	Temperature:	25 ° C	
	-INI	2	
	Humidity:	46 %	
	CTAIL		ING
	Atmospheric pressure:	950-1050mbar	ESTIN
С	onducted testing:	C	
	Temperature:	25 ° C	
			1

## Conducted testina:

endered teemig.	
Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar
CTATESTING	
	TATESTING

## 3.4 Summary of measurement results

Test Specification clause	Test case	Test Mode	Test Channel		orded eport	Test result	
§15.247(a)(1)	Carrier Frequency separation	GFSK П/4DQPSK	Lowest Middle	GFSK П/4DQPSK	Middle	Compliant	
§15.247(a)(1)	Number of Hopping channels	GFSK П/4DQPSK	🛛 Full	GFSK	🛛 Full	Compliant	
§15.247(a)(1)	Time of Occupancy (dwell time)	GFSK П/4DQPSK	<ul> <li>☑ Lowest</li> <li>☑ Middle</li> <li>☑ Highest</li> </ul>	GFSK ∏/4DQPSK	🛛 Middle	Compliant	CTA
§15.247(a)(1)	Spectrumbandwidth of aFHSS system20dB bandwidth	GFSK N/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	GFSK ∏/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	Compliant	
§15.247(b)(1)	Maximum output peak power	GFSK П/4DQPSK	<ul> <li>☑ Lowest</li> <li>☑ Middle</li> <li>☑ Highest</li> </ul>	GFSK П/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	Compliant	
§15.247(d)	Band edgecompliance conducted	GFSK П/4DQPSK	⊠ Lowest ⊠ Highest	GFSK П/4DQPSK	⊠ Lowest ⊠ Highest	Compliant	3
§15.205	Band edgecompliance radiated	GFSK П/4DQPSK	⊠ Lowest ⊠ Highest	GFSK П/4DQPSK	⊠ Lowest ⊠ Highest	Compliant	
§15.247(d)	TX spuriousemissions conducted	GFSK П/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	GFSK П/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	Compliant	
§15.247(d)	TX spuriousemissions radiated	GFSK П/4DQPSK	Lowest Middle	GFSK	⊠ Lowest ⊠ Middle ⊠ Highest	Compliant	
§15.209(a)	TX spurious Emissions radiated Below 1GHz	GFSK N/4DQPSK	<ul> <li>☑ Lowest</li> <li>☑ Middle</li> <li>☑ Highest</li> </ul>	GFSK	⊠ Middle	Compliant	
§15.107(a) §15.207	Conducted Emissions 9KHz-30 MHz	GFSK П/4DQPSK	<ul> <li>☑ Lowest</li> <li>☑ Middle</li> <li>☑ Highest</li> </ul>	GFSK	Middle Middle	Compliant	CTA

RF Conducted test Offset= cable loss, For conducted spurious emission test, cable loss is the maximum 3. value in the range of test.

## Statement of the measurement uncertainty 3.5

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 TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA 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 Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)

Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	-ING	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

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

# 3.6 Equipments Used during the Test

ATE	Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
	LISN	R&S	ENV216	CTA-308	2024/08/03	2025/08/02
	LISN	R&S	ENV216	CTA-314	2024/08/03	2025/08/02
	EMI Test Receiver	R&S	ESPI	CTA-307	2024/08/03	2025/08/02
	EMI Test Receiver	R&S	ESCI	CTA-306	2024/08/03	2025/08/02
	Spectrum Analyzer	GAgilent	N9020A	CTA-301	2024/08/03	2025/08/02
	Spectrum Analyzer	R&S	FSU	CTA-337	2024/08/03	2025/08/02
	Vector Signal generator	Agilent	N5182A	CTA-305	2024/08/03	2025/08/02
	Analog Signal Generator	R&S	SML03	CTA-304	2024/08/03	2025/08/02
	WIDEBAND RADIO COMMUNICATION TESTER		R&S	CTA-302	2024/08/03	2025/08/02
	Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2024/08/03	2025/08/02
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
ľ	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
ľ	Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
	Broadband Horn Antenna	A-INFOMW	LB-180500H-2.4F	CTA-336	2023/09/13	2026/09/12
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2024/08/03	2025/08/02
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2024/08/03	2025/08/02
	Directional coupler	G NARDA	4226-10	CTA-303	2024/08/03	2025/08/02
	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2024/08/03	2025/08/02
	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2024/08/03	2025/08/02
	Automated filter bank	Tonscend	JRUQI-MH8R06- F	CTA-404	2024/08/03	2025/08/02
	Power Sensor	Agilent	U2021XA	CTA-405	2024/08/03	2025/08/02



## Page 10 of 29

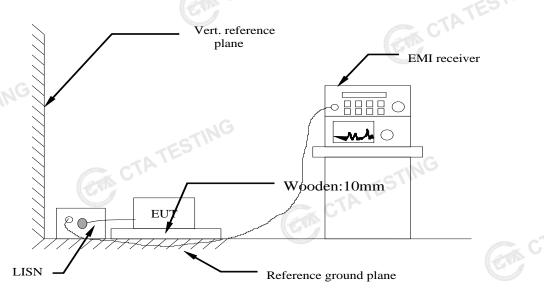
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2024/08/03	2025/08/02
•	TEST					
	Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
	EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
	EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
	RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A
	RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A
CTATE	5.	CTATESTING		TESTING		
				TES		

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## 4 TEST CONDITIONS AND RESULTS

# ATESTING AC Power Conducted Emission 4.1

## **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 10mm 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

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013

4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/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.

## AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (dBuV)				
Frequency range (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
* D					

\* Decreases with the logarithm of the frequency

## TEST RESULTS

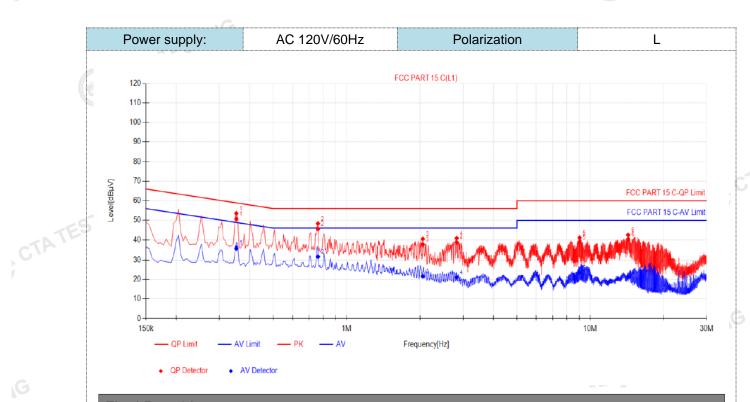
## Remark:

1. All modes of GFSK, II/4 DQPSK were test at Low, Middle, and High channel; only the worst result of GFSK

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TESTING

## Page 12 of 29



## **Final Data Lis**

	тпа		, c										
	NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB µV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict	
-	1	0.3525	9.87	40.86	50.73	58.90	8.17	26.11	35.98	48.90	12.92	PASS	
2	2	0.762	9.95	35.58	45.53	56.00	10.47	21.83	31.78	46.00	14.22	PASS	
N	3	2.0535	9.94	27.74	37.68	56.00	18.32	11.69	21.63	46.00	24.37	PASS	
	4	2.8275	10.05	28.71	38.76	56.00	17.24	11.05	21.10	46.00	24.90	PASS	
	5	9.0375	10.26	28.55	38.81	60.00	21.19	13.25	23.51	50.00	26.49	PASS	
	6	14.298	10.30	30.11	40.41	60.00	19.59	10.92	21.22	50.00	28.78	PASS	
2	2). Fac	).QP Value tor (dB)=ir Margin(dB	nsertion	loss of L	ISN (dB)	+ Cable	e loss (dl					GA	CTATE

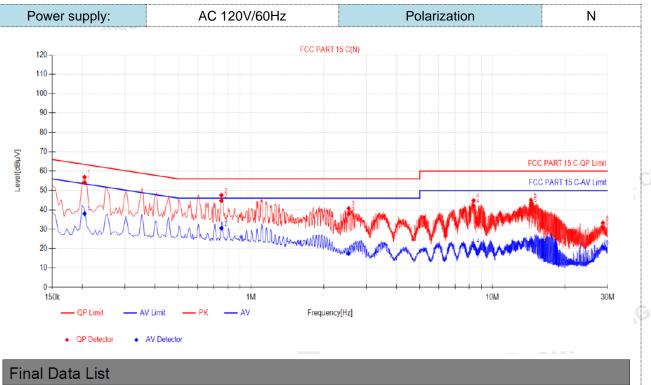
- 3). QPMargin(dB) = QP Limit (dB $\mu$ V) QP Value (dB $\mu$ V)
- 4). AVMargin(dB) = AV Limit (dB $\mu$ V) AV Value (dB $\mu$ V) CTATEST

CTATES

CTATES



CTATE

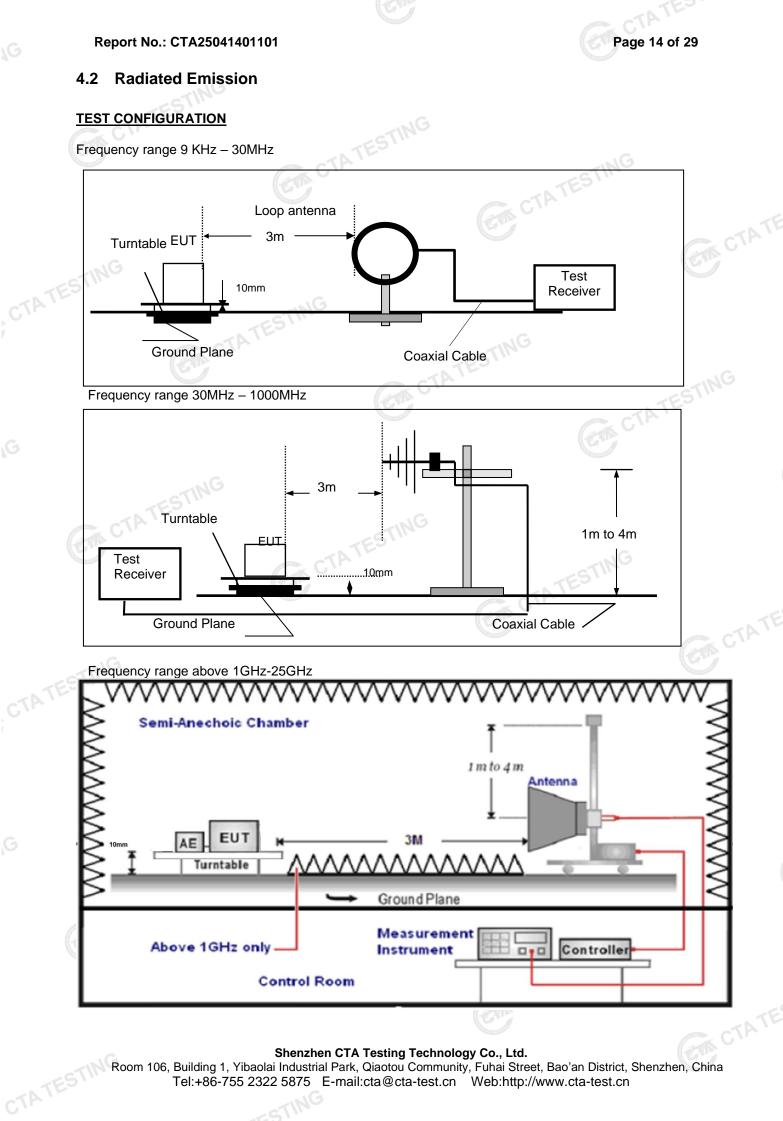


ппа												
NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB µV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	A∨ Margin [dB]	Verdict	
1	0.204	9.96	44.10	54.06	63.45	9.39	28.03	37.99	53.45	15.46	PASS	
2	0.753	10.10	34.52	44.62	56.00	11.38	20.37	30.47	46.00	15.53	PASS	
3	2.535	10.12	27.71	37.83	56.00	18.17	7.33	17.45	46.00	28.55	PASS	
4	8.3535	10.41	31.64	42.05	60.00	17.95	11.00	21.41	50.00	28.59	PASS	
5	14.442	10.42	32.26	42.68	60.00	17.32	13.08	23.50	50.00	26.50	PASS	
6	28.6845	10.81	19.85	30.66	60.00	29.34	9.92	20.73	50.00	29.27	PASS	
Note:1	).QP Value	e (dBµV)		eading (c	• •	•	i li si	K CTP				

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dB $\mu$ V) - QP Value (dB $\mu$ V)

4). AVMargin(dB) = AV Limit (dB $\mu$ V) - AV Value (dB $\mu$ V)



## TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 10mm above ground plane when testing frequency range 9 KHz –1GHz; the EUT was placed on a turn table which is 10mm above ground plane when testing frequency range 1GHz - 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° 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.
- Radiated emission test frequency band from 9KHz to 25GHz. 5. 6.

The distance between test a	antenna and EUT as following tab	le states:	A STATE
Test Frequency range	Test Antenna Type	Test Distance	
9KHz-30MHz	Active Loop Antenna	3	Parameter
30MHz-1GHz	Ultra-Broadband Antenna	3	
1GHz-18GHz	Double Ridged Horn Antenna	3	
18GHz-25GHz	Horn Anternna	1	

Setting test receiver/spectrum as following table states: 7.

Test Frequency	Jency Test Receiver/Spectrum Setting			
range	TAIL			
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP		
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP		
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP		
	Peak Value: RBW=1MHz/VBW=3MHz,			
1GHz-40GHz	Sweep time=Auto	Peak		
. 6	Average Value: RBW=1MHz/VBW=10Hz,			
JUNIO	Sweep time=Auto			

## **Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows: CTA

## FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

CTATESTIN Transd=AF +CL-AG

## RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

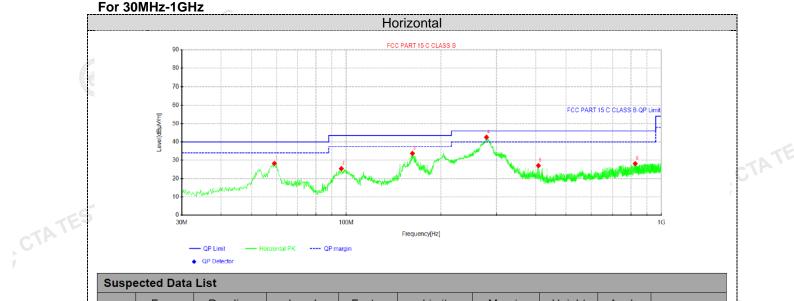
The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

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)
1.705	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	960	3	54.0	500

# TEST RESULTS

## Remark:

- 1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- We measured Radiated Emission at GFSK, π/4 DQPSK mode from 9 KHz to 25GHz and recorded worst case at GFSK DH5 mode.
- 3. For below 1GHz testing recorded worst at GFSK DH5 middle channel.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1	40.83	28.30	-12.53	40.00	11.70	100	171	Horizontal
2	96.445	39.05	25.45	-13.60	43.50	18.05	100	171	Horizontal
3	162.283	49.30	33.74	-15.56	43.50	9.76	200	90	Horizontal
4	279.047	54.00	42.57	-11.43	46.00	3.43	100	335	Horizontal
5	408.057	37.18	27.07	-10.11	46.00	18.93	100	355	Horizontal
6	825.763	32.46	28.16	-4.30	46.00	17.84	200	148	Horizontal

CTATES

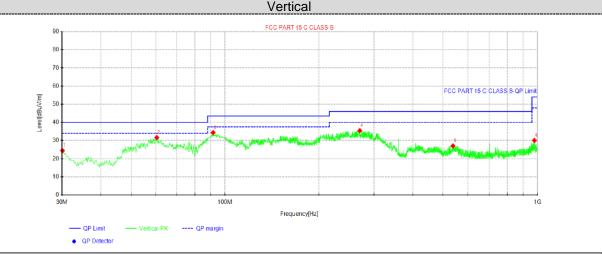
Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB $\mu$ V/m) - Level (dB $\mu$ V/m)

CTA .

CTATE



## Suspected Data List

Jush	ecteu Data	LISU							
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Folanty
1	30.1212	38.59	24.43	-14.16	40.00	15.57	100	258	Vertical
2	60.4338	44.52	31.65	-12.87	40.00	8.35	100	118	Vertical
3	91.595	48.79	34.36	-14.43	43.50	9.14	200	106	Vertical
4	270.196	47.07	35.46	-11.61	46.00	10.54	100	73	Vertical
5	537.795	35.91	27.04	-8.87	46.00	18.96	100	0	Vertical
6	977.447	31.95	30.08	-1.87	54.00	23.92	200	200	Vertical

CTA TESTING

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

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CTATES

## For 1GHz to 25GHz

Note: GFSK ,  $\pi/4$  DQPSK all have been tested, only worse case GFSK is reported. GFSK (above 1GHz)

	AV.Y			GI SK (abb	ve ionz)				
Freque	ncy(MHz)	):	24	02	Pola	arity:	н	IORIZONTA	۱L
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	61.93	PK	74	12.07	66.20	32.33	5.12	41.72	-4.27
4804.00	44.59	AV	54	9.41	48.86	32.33	5.12	41.72	-4.27
7206.00	53.71	PK	74	20.29	54.23	36.6	6.49	43.61	-0.52
7206.00	43.27	AV	54	10.73	43.79	36.6	6.49	43.61	-0.52

.C.			-						6.7
Freque	ncy(MHz)	:	24	02	Pola	arity:		VERTICAL	-
Frequency (MHz)	-	sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	59.99	PK	74	14.01	64.26	32.33	5.12	41.72	-4.27
4804.00	42.70	AV	54	11.30	46.97	32.33	5.12	41.72	-4.27
7206.00	52.20	PK	74	21.80	52.72	36.6	6.49	43.61	-0.52
7206.00	41.53	AV	54	12.47	42.05	36.6	6.49	43.61	-0.52

Freque	ncy(MHz)	:	24	41	Pola	arity:	н	ORIZONTA	\L
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4882.00	61.27	PK	74	12.73	65.15	32.6	5.34	41.82	-3.88
4882.00	43.87	AV	54	10.13	647.75	32.6	5.34	41.82	-3.88
7323.00	52.93	PK	74	21.07	53.04	36.8	6.81	43.72	-0.11
7323.00	42.42	AV	54	11.58	42.53	36.8	6.81	6 43.72	-0.11
				~			-STIL	P	

Freque	ncy(MHz)	:	24	41	Pola	arity:		VERTICAL	
Frequency (MHz)	-	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4882.00	59.42	PK	74	14.58	63.30	32.6	5.34	41.82	-3.88
4882.00	41.81	AV	54	12.19	45.69	32.6	5.34	41.82	-3.88
7323.00	51.33	PK	74	22.67	51.44	36.8	6.81	43.72	-0.11
7323.00	40.88	AV	54	13.12	40.99	36.8	6.81	43.72	-0.11
	Hz)         Level (dBuV/m)         (dBuV/m)           32.00         59.42         PK         74           32.00         41.81         AV         54           33.00         51.33         PK         74					6			

Freque	ncy(MHz)	):	24	80	Pola	rity:	Н	IORIZONTA	AL .
Frequency (MHz)	-	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	60.75	PK	74	13.25	63.83	32.73	5.66	41.47	-3.08
4960.00	43.27	AV	54	10.73	46.35	32.73	5.66	41.47	-3.08
7440.00	52.40	PK	74	21.60	51.95	37.04	7.25	43.84	0.45
7440.00	41.92	AV	54	12.08	41.47	37.04	7.25	43.84	0.45

Freque	ency(MHz)	:	24	80	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	CRaw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	59.15	PK	74	14.85	62.23	32.73	5.66	41.47	-3.08
4960.00	41.68	AV	54	12.32	44.76	32.73	5.66	41.47	-3.08
7440.00	50.54	PK	74	23.46	50.09	37.04	7.25	43.84	0.45
7440.00	40.40	AV	54	13.60	39.95	37.04	7.25	43.84	0.45

## **REMARKS:**

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
- 3. Margin value = Limit value- Emission level.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.

			(Radiated) ave been test	ed, only wors	se case GFS	SK is reporte	d.TESTIN		
				GFS	K				
Freque	ncy(MHz)	:	24	02	Pola	arity:	F	IORIZONTA	<b>L</b>
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	62.28	PK	74	11.72	72.70	27.42	4.31	42.15	-10.42
2390.00	42.83	AV	54	11.17	53.25	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)	:	24	02	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	60.26	PK	74	13.74	70.68	27.42	4.31	42.15	-10.42
2390.00	41.23	AV	54	12.77	51.65	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)	:	24	80	Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	61.57	PK	74	12.43	71.68	27.7	4.47	42.28	-10.11
2483.50	42.28	AV	54	11.72	52.39	27.7	4.47	42.28	-10.11
Freque	ncy(MHz)	:	24	80	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	59.79	ΡK	74	14.21	69.90	27.7	4.47	42.28	-10.11
2483.50	40.52	AV	54	13.48	50.63	27.7	4.47	42.28	-10.11

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)

2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier

3. Margin value = Limit value- Emission level.

CTATESTING 4. -- Mean the PK detector measured value is below average limit.

5. The other emission levels were very low against the limit.

## 4.3 Maximum Peak Output Power

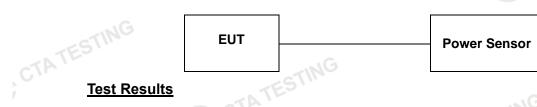
## Limit

The Maximum Peak Output Power Measurement is 125mW (20.97).

## Test Procedure

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

## **Test Configuration**



Please refer to Appendix RF Test Data for BT

Note: 1.The test results including the cable loss. CIA

## Limit

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

## **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.

## **Test Configuration**



## **Test Results**

Please refer to Appendix RF Test Data for BT

## 4.5 **Frequency Separation**

## LIMIT

According to 15.247(a)(1), 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 CTATE fundamental frequency was measured by spectrum analyzer with 300 KHz RBW and 300 KHz VBW.

## **TEST CONFIGURATION**



## **TEST RESULTS**

Please refer to Appendix RF Test Data for BT Note:

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

## 4.6 Number of hopping frequency

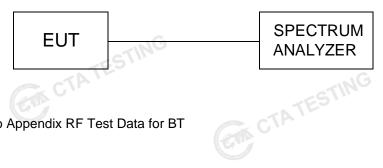
## Limit

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 CTATE start 2400MHz to 2483.5MHz with 300 KHz RBW and 300 KHz VBW.

# **Test Configuration** cta testing



## **Test Results**

Please refer to Appendix RF Test Data for BT

## 4.7 Time of Occupancy (Dwell Time)

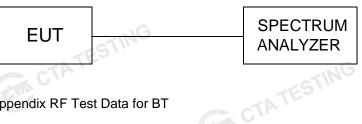
## Limit

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.

## **Test Procedure**

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

## **Test Configuration**



## **Test Results**

Please refer to Appendix RF Test Data for BT

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

## 4.8 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 conducted 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.

## 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 - STNG

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. CTATES

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

Please refer to Appendix RF Test Data for BT

# 4.9 Pseudorandom Frequency Hopping Sequence **TEST APPLICABLE**

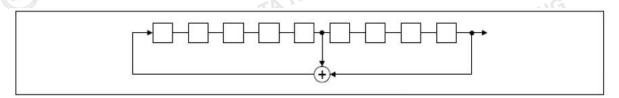
# For 47 CFR Part 15C section 15.247 (a) (1) requirement:

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 5<sup>th</sup> and 9<sup>th</sup> 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

CTATES An example of pseudorandom frequency hopping sequence as follows:

5 77	73 7	1	78	62 64	6	4	2	1
			1					Т
			1					
			1					
_		 ∐						

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.

## 4.10 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 (c), if transmitting antennas of directional gain CTATE greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

## 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 CTATESTING apply to intentional radiators that must be professionally installed.

## Antenna Connected Construction

The maximum gain of antenna was 0.82 dBi

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen CTA Testing Technology Co., Ltd. does not assume any responsibility. CTA TESTING

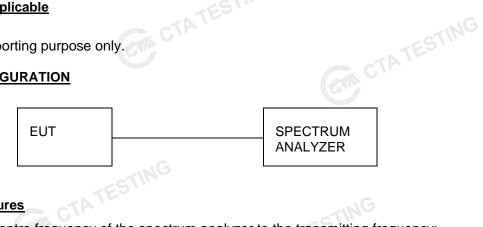


# 4.11 On Time and Duty Cycle

## Standard Applicable

None; for reporting purpose only.

## **TEST CONFIGURATION**



# CTATESTING **Test Procedures**

- CTA TESTING 1). Set the Centre frequency of the spectrum analyzer to the transmitting frequency;
- Set the span=0MHz, RBW=8MHz, VBW=8MHz, Sweep time=10ms;
- 3). Detector = peak;
- 4). Trace mode = Single hold.

Please refer to Appendix RF Test Data for BT

# 5 Test Setup Photos of the EUT

Please refer to separated files for Test Setup Photos of the EUT.

# 6 External and Internal Photos of the EUT

Please refer to separated files for External Photos & Internal Photos of the EUT.

## .....End of Report.....