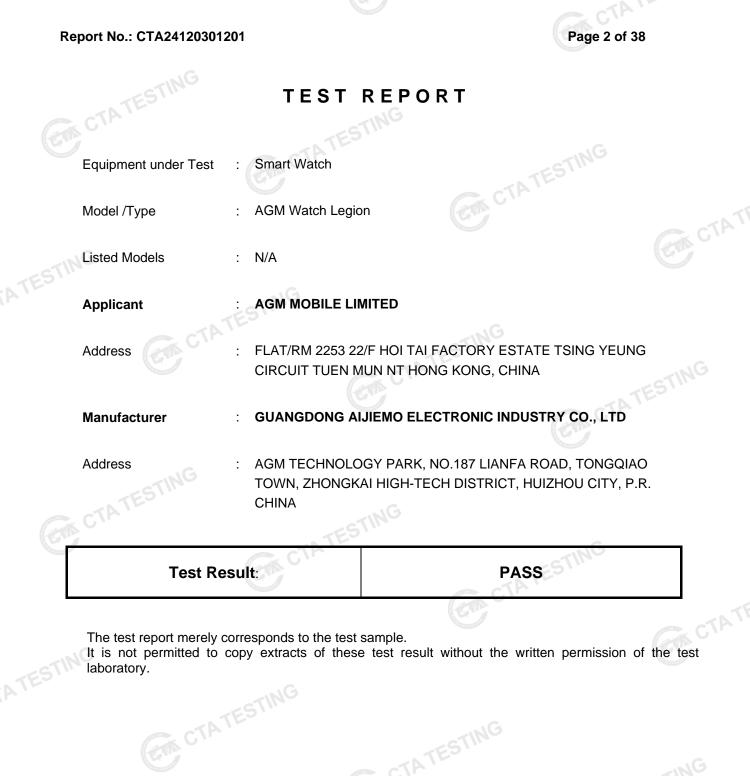


Shenzhen CTA Testing Technology Co., Ltd.

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

Frequency From 2402MHz to 2480MHz		ART 15 SUBPART C TEST	REPORT
FCC ID		FCC PART 15.247	
Compiled by (position+printed name+signature): File administrators Xudong Zhang Supervised by (position+printed name+signature): Project Engineer Zoey Cao Approved by (position+printed name+signature): RF Manager Eric Wang Date of issue			
Supervised by (position+printed name+signature): Project Engineer Zoey Cao Approved by (position+printed name+signature): RF Manager Eric Wang Date of issue	mpiled by		
It position+printed name+signature): Project Engineer Zoey Cao Approved by It position+printed name+signature): RF Manager Eric Wang Date of issue	sition+printed name+signatu	re): File administrators Xudong Zhang	Xuolary Zhaney
position+printed name+signature) RF Manager Eric Wang Date of issue Dec. 11, 2024 Festing Laboratory Name Shenzhen CTA Testing Technology Co., Ltd. Address Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Commu Fuhai Street, Bao'an District, Shenzhen, China Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Commu Address Address Address FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEU CIRCUIT TUEN MUN NT HONG KONG, CHINA Fest specification Fest specification : Standard : FCC Part 15.247 Shenzhen CTA Testing Technology Co., Ltd. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen CTA Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the naterial. Shenzhen CTA Testing Technology Co., Ltd. takes no responsibility for and will not assume iability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Equipment description : Smart Watch Frade Mark : N/A Modulation : GFSK Frequency From 2402MHz to 2480MHz	-	re): Project Engineer Zoey Cao	FoegTAnd =
Testing Laboratory Name Shenzhen CTA Testing Technology Co., Ltd. Address Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Commu Fuhai Street, Bao'an District, Shenzhen, China Applicant's name Applicant's name AGM MOBILE LIMITED Address FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEU CIRCUIT TUEN MUN NT HONG KONG, CHINA Test specification Test specification : Standard : FCC Part 15.247 Shenzhen CTA Testing Technology Co., Ltd. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen CTA Testing Technology Co., Ltd. takes no responsibility for and will not assumiliability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Equipment description : Smart Watch Trade Mark : N/A Manufacturer : AGM Watch Legion Listed Models : N/A Modulation : GFSK Frequency From 2402MHz to 2480MHz	proved by psition+printed name+signatu	re): RF Manager Eric Wang	G Evic Meng
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Ratings DC 3.8V From battery and DC 5.0V From external circuit	enzhen CTA Testing Technology s publication may be reproducenzhen CTA Testing Technology terial. Shenzhen CTA Testing ility for damages resulting fro cement and context. uipment description	blogy Co., Ltd. All rights reserved. ced in whole or in part for non-commerci- bgy Co., Ltd. is acknowledged as copyring Technology Co., Ltd. takes no response in the reader's interpretation of the repro- Smart Watch : N/A : GUANGDONG AIJIEMO ELECTRO : AGM Watch Legion : N/A : GFSK	ight owner and source of the sibility for and will not assume oduced material due to its
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1 TEST STANDARDS

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: 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. <u>ANSI C63.10-2013</u>: American National Standard for Testing Unlicensed Wireless Devices <u>KDB558074 D01 V05r02</u>: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

Systems (DTS) Operating Under §15.247

SUMMARY 2

2.1 **General Remarks**

CTATES			
2.1 General Remarks			
Date of receipt of test sample		Dec. 03, 2024	
Testing commenced on		Dec. 03, 2024	Co.us
Testing concluded on	:	Dec. 11, 2024	

2.2 Product Description*

Testing concluded on	: Dec. 11, 2024
2.2 Product Desc	ription*
Product Description:	Smart Watch
Model/Type reference:	AGM Watch Legion
Power supply:	DC 3.8V From battery and DC 5.0V From external circuit
Hardware version:	V1.1
Software version:	V1.0
Testing sample ID:	CTA241203012-1# (Engineer sample) CTA241203012-2# (Normal sample)
Bluetooth BLE	
Supported type:	Bluetooth low Energy
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2 MHz
Antenna type:	Internal antenna
Antenna gain:	0.52 dBi

2.3 Equipment Under Test

Power supply system utilised

Power supply system utili	sed				CTATES
Power supply voltage	:	0	230V / 50 Hz	C) 120V / 60Hz
		Ο	12 V DC	С	24 V DC
-NG			Other (specified in bl	ank below	/)

2.4 Short description of the Equipment under Test (EUT)

This is a Smart Watch. For more details, refer to the user's manual of the EUT.

2.5 EUT configuration

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

- supplied by the manufacturer
- \bigcirc supplied by the lab

O Adapter	.6	Model: EP-TA20CBC
G/M	ESTING	Input: AC 100-240V 50/60Hz
	ATES	Output: DC 5V 2A
GIAU		TESTIN

2.6 EUT operation mode

The Applicant provides communication tools software(Engineer mode) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing. There are 40 channels provided to the EUT and Channel 00/19/39 were selected to test.

Channel	Frequency (MHz)
00	2402
01	2404
02	2406
19	2440
ESTIN	÷
37	2476
38	2478
39	2480

2.7 Block Diagram of Test Setup

EUT

1G	DC 5.0V From adapter	
	CTATESTI	

2.8 Related Submittal(s) / Grant (s)

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

2.9 **Modifications**

No modifications were implemented to meet testing criteria. GA CTATESTING

TEST ENVIRONMENT 3

Address of the test laboratory 3.1

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

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation 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.

Environmental conditions 3.3

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

Temperature:	23 ° C
	TES
Humidity:	44 %
(.	
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing.

e main eenddeled leeling.				
Temperature:	24 ° C			
NG				
Humidity:	47 %			
	. 6			
Atmospheric pressure:	950-1050mbar			

	Aunospheric pressure.	930-1030mbai	
С	onducted testing:	TED	TING
	Temperature:	24 ° C	TESI
	Contraction of the second		(A)
	Humidity:	46 %	
	Atmospheric pressure:	950-1050mbar	

	Test Specification clause	Test case	Test Mode	Test Channel		ecorded Report	Test result
	§15.247(e)	Power spectral density	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	complies
	§15.247(a)(2)	Spectrum bandwidth – 6 dB bandwidth	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	complies
	§15.247(b)(3)	Maximum output Peak power	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	BLE 1Mpbs	Lowest	complies
CTATE	§15.247(d)	Band edge compliance conducted	BLE 1Mpbs	⊠ Lowest ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Highest	complies
	§15.205	Band edge compliance radiated	BLE 1Mpbs	⊠ Lowest ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Highest	complies
	§15.247(d)	TX spurious emissions conducted	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	complies
	§15.247(d)	TX spurious emissions radiated	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	complies
G	§15.209(a)	TX spurious Emissions radiated Below 1GHz	BLE 1Mpbs	-/-	BLE 1Mpbs	-/-	complies
	§15.107(a) §15.207	Conducted Emissions < 30 MHz	BLE 1Mpbs		BLE 1Mpbs	-/-	complies

3.4 Summary of measurement results

Remark: The measurement uncertainty is not included in the test result.

3.5 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 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. : TESTING

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)

RF Test Software

Tonscend

(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

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	Agilent	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	CMW500	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
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2023/10/17	2026/10/16
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	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	JS0806-F	CTA-404	2024/08/03	2025/08/02
Power Sensor	Agilent	U2021XA	CTA-405	2024/08/03	2025/08/02
Amplifier	Schwarzbeck	BBV9719	CTA-406	2024/08/03	2025/08/02
		C VI			STIN
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	S Tonscend	TS®JS1120-3	3.1.65	N/A	N/A

TS®JS1120

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

3.1.46

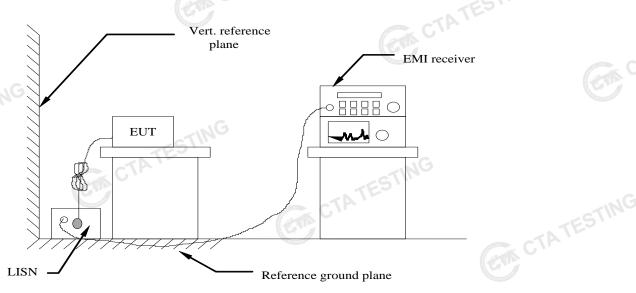
N/A

N/A

TEST CONDITIONS AND RESULTS 4

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 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

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)							
	Quasi-peak	Average						
0.15-0.5	66 to 56*	56 to 46*						
0.5-5	56	46						
5-30	G 60	50						
* Decreases with the logarithm of the frequency								

Decreases with the logarithm of the frequent

TEST RESULTS

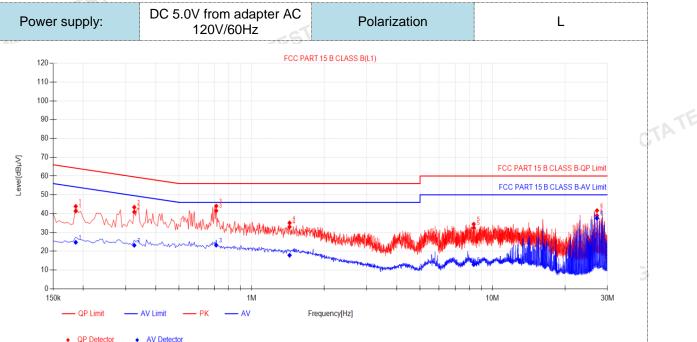
Remark:

1. BLE 1Mpbs was tested at Low, Middle, and High channel; only the worst result of BLE 1Mpbs High channel 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

TESTING

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2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



Final Data List

											(
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	0.186	10.03	31.34	41.37	64.21	22.84	14.71	24.74	54.21	29.47	PASS
2	0.3255	9.91	31.00	40.91	59.57	18.66	13.26	23.17	49.57	26.40	PASS
3	0.7125	9.92	31.63	41.55	56.00	14.45	13.28	23.20	46.00	22.80	PASS
4	1.437	9.90	23.07	32.97	56.00	23.03	7.96	17.86	46.00	28.14	PASS
5	8.358	10.27	22.15	32.42	60.00	27.58	2.63	12.90	50.00	37.10	PASS
6	27.159	10.56	28.36	38.92	60.00	21.08	26.99	37.55	50.00	12.45	PASS
).QP Valu	· · · /		•	• •	•	,				
2)	. Factor (d	B)=inser	tion loss	of LISN ((dB) + Ca	able loss	(dB)				
2)		ر ط ال		(~ /)			`\				

Note:1).QP Value $(dB\mu V) = QP$ Reading $(dB\mu V) +$ Factor (dB)

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
- 4). AVMargin(dB) = AV Limit (dB μ V) AV Value (dB μ V)

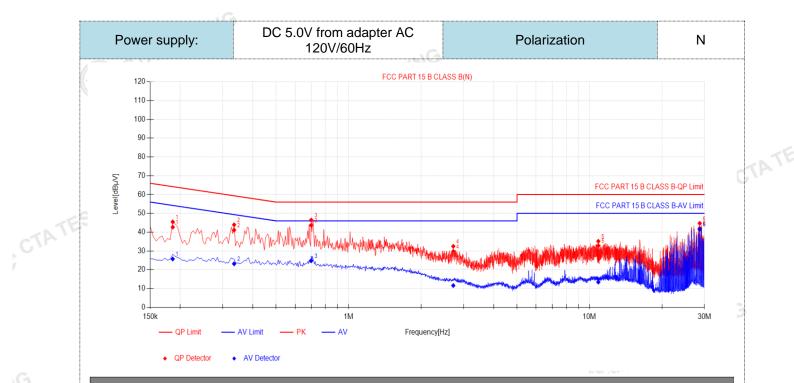
Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

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	ппа	Data Lis	ν										
	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	0.186	10.01	32.67	42.68	64.21	21.53	15.72	25.73	54.21	28.48	PASS	
2	2	0.3345	9.86	31.26	41.12	59.34	18.22	13.31	23.17	49.34	26.17	PASS	
	3	0.699	10.06	33.60	43.66	56.00	12.34	14.72	24.78	46.00	21.22	PASS	
	4	2.7195	10.17	19.59	29.76	56.00	26.24	1.42	11.59	46.00	34.41	PASS	
	5	10.8825	10.40	22.42	32.82	60.00	27.18	3.02	13.42	50.00	36.58	PASS	
	6	28.6845	10.81	31.25	42.06	60.00	17.94	30.69	41.50	50.00	8.50	PASS	
1	Note:1).QP Value	e (dBµV)	= QP Re	ading (dl	3μV)+ Fa	actor (dB	s) (9					
	2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)												
	3).	. QPMargi	n(dB) = 0	QP Limit	(dBµV) -	QP Valu	ie (dBµV	')					
	4)	. AVMargir	n(dB) = A	AV Limit (dBµV) -	AV Value	e (dBuV)						

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
- 4). AVMargin(dB) = AV Limit (dB μ V) AV Value (dB μ V) LIE-LIE-CTATESTING

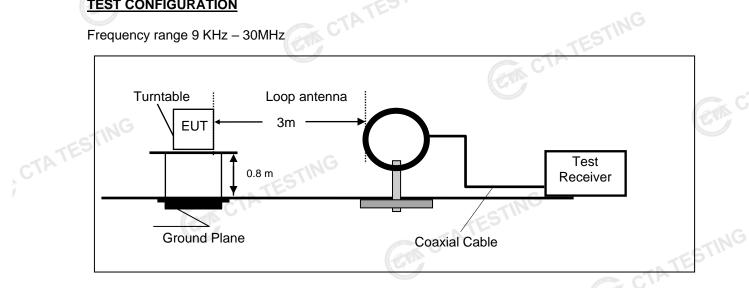
Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

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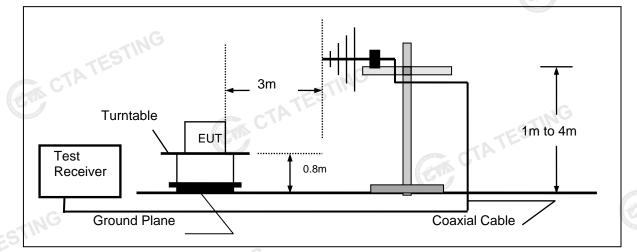


TEST CONFIGURATION

Frequency range 9 KHz – 30MHz

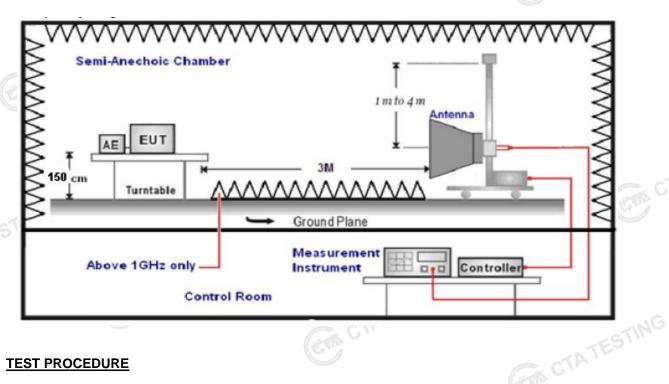


Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz

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TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz; the EUT was placed on a turn table which is 1.5m 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°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.
- Repeat above procedures until all frequency measurements have been completed. 4.
- The EUT minimum operation frequency was 32.768KHz and maximum operation 5.
- frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz. 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1
	a server falle the calls at a factor	

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

Test Frequency range	Test Receiver/Spectrum Setting	Detector		
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,	TING		
1GHz-40GHz	Sweep time=Auto	Peak		
19112-409112	Average Value: RBW=1MHz/VBW=10Hz,			
	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:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)	
RA = Reading Amplitude	AG = Amplifier Gain	
AF = Antenna Factor		TE
		CTA 1
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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 the 100kHz 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.

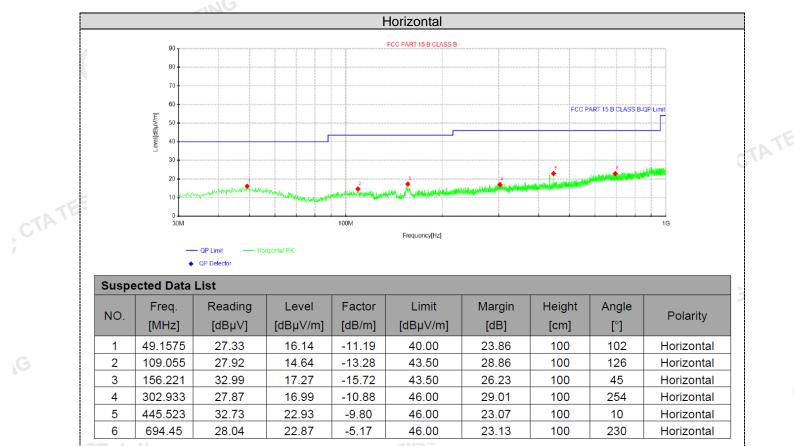
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)		
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)		
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)		
1.705-30	3	20log(30)+ 40log(30/3)	30		
30-88	3	40.05	100		
88-216	3	43.5	150		
216-960	3	46.0	200		
Above 960	3	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.
- 2. BLE 1Mpbs were tested at Low, Middle, and High channel and recorded worst mode at BLE 1Mpbs.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found 3. except system noise floor in 9 KHz to 30MHz and not recorded in this report. CTATESTING

For 30MHz-1GHz

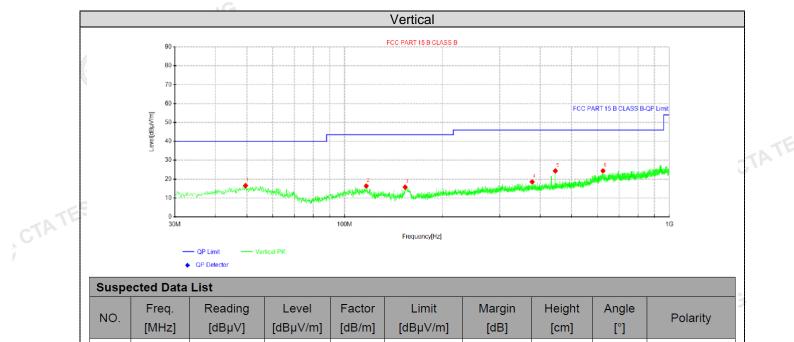


Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V$)+ Factor (dB/m)

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

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



NO.									Dolarity
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	49.5212	27.73	16.56	-11.17	40.00	23.44	100	61	Vertical
2	116.572	30.09	16.38	-13.71	43.50	27.12	100	258	Vertical
3	153.553	31.40	15.78	-15.62	43.50	27.72	100	0	Vertical
4	377.866	28.93	18.54	-10.39	46.00	27.46	100	49	Vertical
5	445.523	34.21	24.41	-9.80	46.00	21.59	100	131	Vertical
6	624.125	30.14	24.42	-5.72	46.00	21.58	100	357	Vertical
						•			

CTAT

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 μ V/m) - Level (dB μ V/m)

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For 1GHz to 25GHz

		NG		GFSK (abo	/e 1GHz)				
Freque	ncy(MHz)	:	24	02	Pola	arity:	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)
4804.00	61.71	PK	74	12.29	65.98	32.33	5.12	41.72	-4.27
4804.00	44.35	AV	54	9.65	48.62	32.33	5.12	41.72	-4.27
7206.00	53.83	PK	74	20.17	54.35	36.6	6.49	43.61	-0.52
7206.00	43.22	AV	54	10.78	43.74	36.6	6.49	43.61	-0.52

	Freque	ncy(MHz)	:	2402		Polarity:		VERTICAL		
CTA	Frequency (MHz)	Emis Lev (dBu)	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
7	4804.00	59.53	PK	74	14.47	63.80	32.33	5.12	41.72	-4.27
	4804.00	42.24	AV	54	11.76	46.51	32.33	5.12	41.72	-4.27
	7206.00	51.08	PK	74	22.92	51.60	36.6	6.49	43.61	-0.52
	7206.00	40.90	AV	54	13.10	41.42	36.6	6.49	43.61	-0.52
					G	1			TE	

Frequency(MHz):		2440		Pola	arity:	rity: HC		ORIZONTAL	
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)
4880.00	61.13	PK	74	12.87	65.01	32.6	5.34	41.82	-3.88
4880.00	43.73	AV	54	10.27	47.61	32.6	5.34	41.82	-3.88
7320.00	53.16	PK	74	20.84	53.27	36.8	6.81	43.72	-0.11
7320.00	42.66	AV	54	11.34	42.77	36.8	6.81	43.72	-0.11
A CONTRACTOR OF A CONTRACTOR O	AL A					•	-IN	G	•

Frequency(MHz):		2440		Pola	arity:	VERTICAL			
Frequency (MHz)	Emis Lev (dBu)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	59.36	PK	74	14.64	63.24	32.6	5.34	41.82	-3.88
4880.00	41.94	AV	54	12.06	45.82	32.6	5.34	41.82	-3.88
7320.00	50.76	PK	74	23.24	50.87	36.8	6.81	43.72	-0.11
7320.00	40.89	AV	54	13.11	41.00	36.8	6.81	43.72	-0.11
			GTIN						

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
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)
4960.00	60.40	PK	74	13.60	63.48	32.73	5.66	41.47	-3.08
4960.00	43.15	AV	54	10.85	46.23	32.73	5.66	41.47	-3.08
7440.00	52.45	PK	74	21.55	52.00	37.04	7.25	43.84	0.45
7440.00	41.87	PK	54	12.13	41.42	37.04	7.25	43.84	0.45

Freque	Frequency(MHz):		2480		Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu)		Limit (dBuV/m)	Margin (dB)	G Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	58.56	PK	74	15.44	61.64	32.73	5.66	41.47	-3.08
4960.00	41.59	AV	54	12.41	44.67	32.73	5.66	41.47	-3.08
7440.00	50.91	PK	74	23.09	50.46	37.04	7.25	43.84	0.45
7440.00	40.07	PK	54	13.93	39.62	37.04	7.25	43.84	0.45
REMARKS	:		· · ·	CTA Testing		Contraction of the second			CTP

- 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.

Results of Band Edges Test (Radiated)

Freque	ncy(MHz)	:	24	<u>GFS</u> 02		Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Lev (dBu)	sion 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	61.79	PK	74	12.21	72.21	27.42	4.31	42.15	-10.42	
2390.00	43.08	AV	54	10.92	53.50	27.42	4.31	42.15	-10.42	
Freque	ncy(MHz):		2402		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	59.65	PK	74	14.35	70.07	27.42	4.31	42.15	-10.42	
2390.00	40.89	AV	54	13.11	51.31	27.42	4.31	42.15	-10.42	
Freque	Frequency(MHz):		2480		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	61.11	PK	74	12.89	71.22	27.7	4.47	42.28	-10.11	
2483.50	42.33	AV	54	11.67	52.44	27.7	4.47	42.28	-10.11	
Freque	ncy(MHz)	:	24	80	Pola	arity:		VERTICAL	•	
Frequency	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)	
(MHz)		PK	74	15.32	68.79	27.7	4.47	42.28	-10.11	
	58.68	1 1 1		13.41	50.70	27.7	4.47	42.28	-10.11	

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 30dBm.

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

est Results				ATESI
Туре	Channel	Output power (dBm)	Limit (dBm)	Result
	00	-1.65		
GFSK 1Mbps	19	-3.53	30.00	Pass
CTA	39	-3.23		
Note: 1.The test res	sults including the ca	able lose.	CTATESTING	

4.4 **Power Spectral Density**

Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

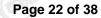
- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW \geq 3 kHz.
- 3. Set the VBW \geq 3× RBW.
- CTATESTING 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum power level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be 8dBm.

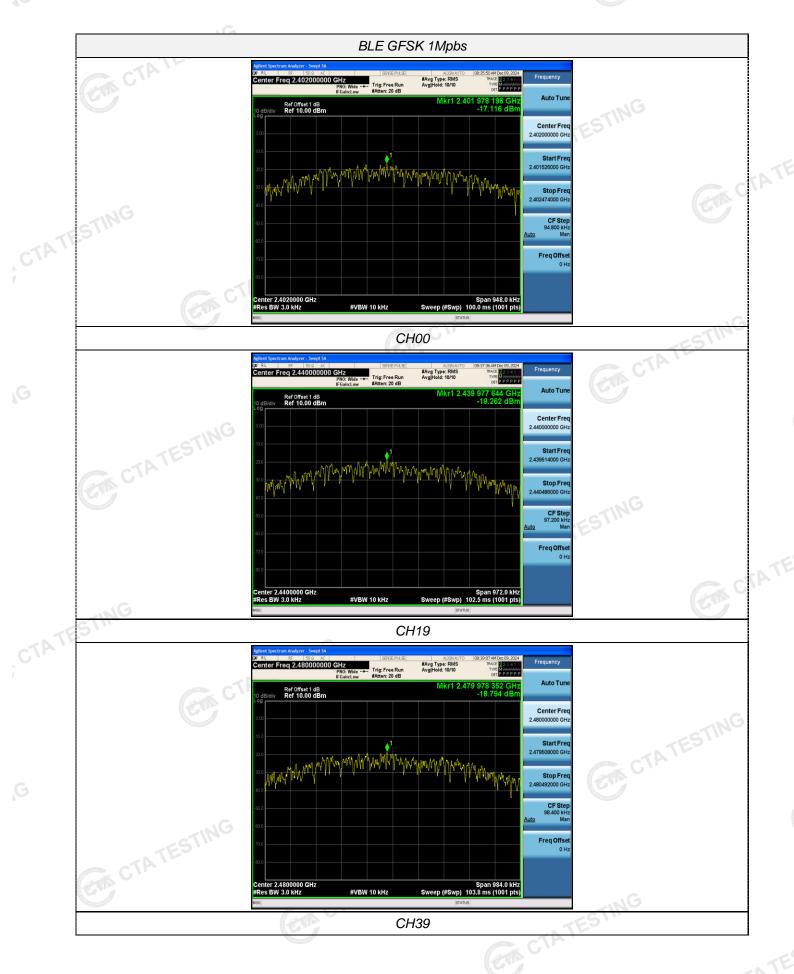
Test Configuration

CTATESTING EUT SPECTRUM ANALYZER

Test Results

		Power Spectral Density		i de la composición de
Туре	Channel	(dBm/3KHz)	Limit (dBm/3KHz)	Result
	00	J -17.12		
GFSK 1Mbps	19	-19.26	8.00	Pass
	39	-18.79	16	





4.5 6dB Bandwidth

Limit

ESTING For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

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 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

Test Results		ANALYZ	FR	CTATESTING
Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
CTINC	00	0.632		
GFSK 1Mbps	19	0.648	≥500	Pass
C/r	39	0.656		
Test plot as follows:	CAN C	TATES	CTA TESTIN	G



4.6 **Out-of-band Emissions**

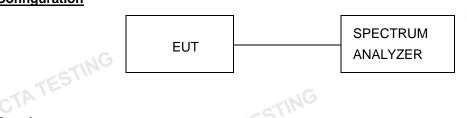
Limit

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 GAN CTATESTING 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

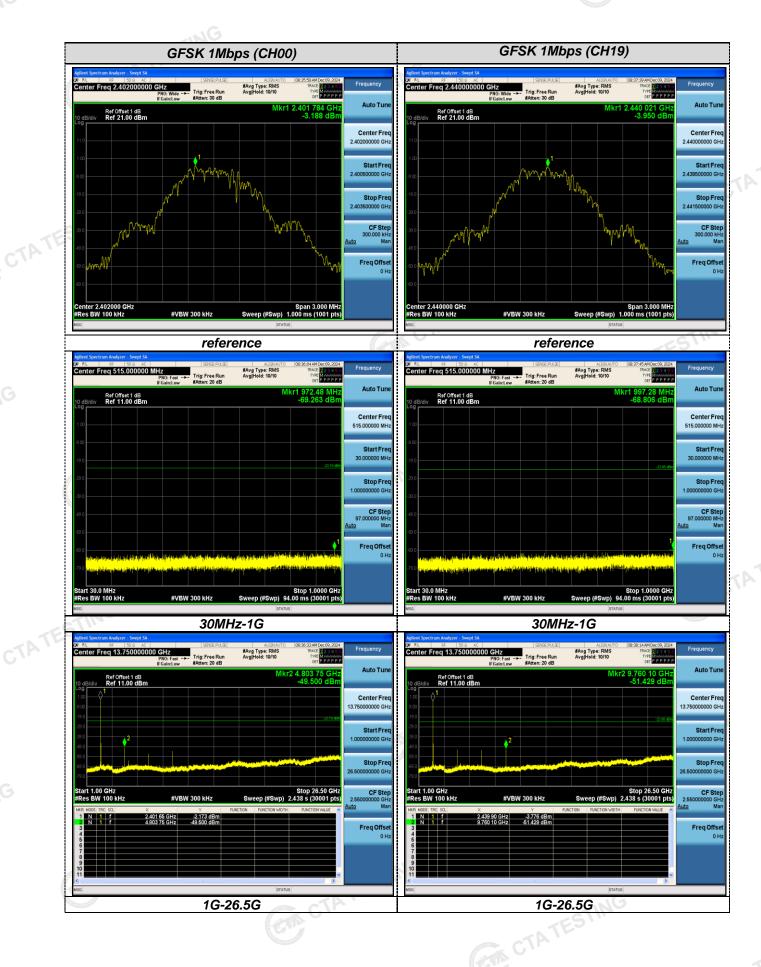


Test Results

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 CTATE measurement data.

Test plot as follows:

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Band-edge Measurements for RF Conducted Emissions:



4.7 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

The gain of antenna was 0.52 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.

5 Test Setup Photos of the EUT







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<u>Photos of the EUT</u> 6



 $= \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_$

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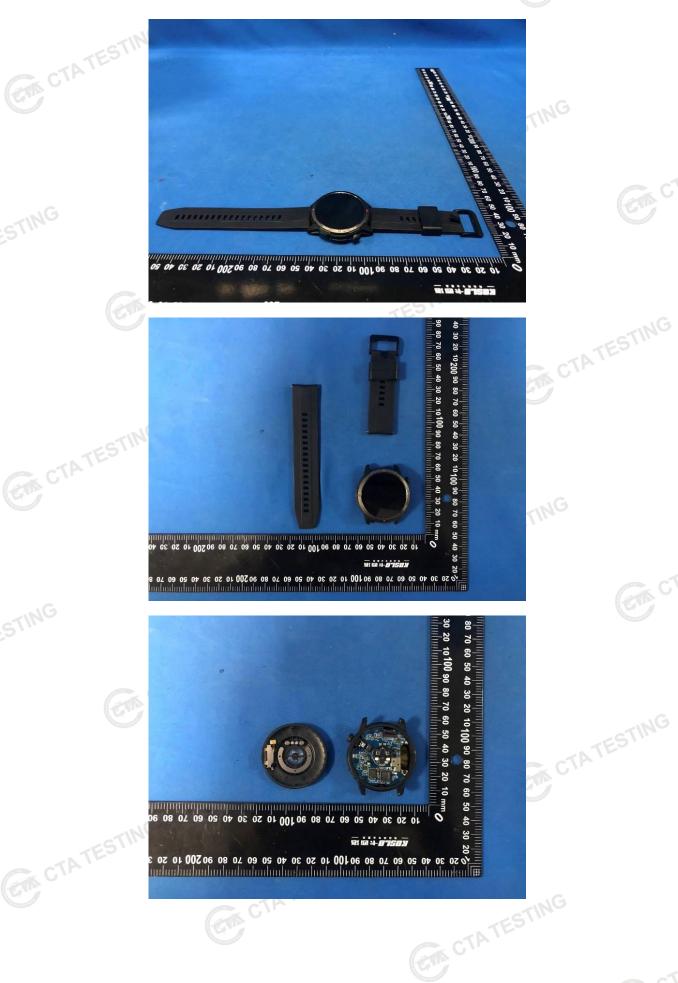
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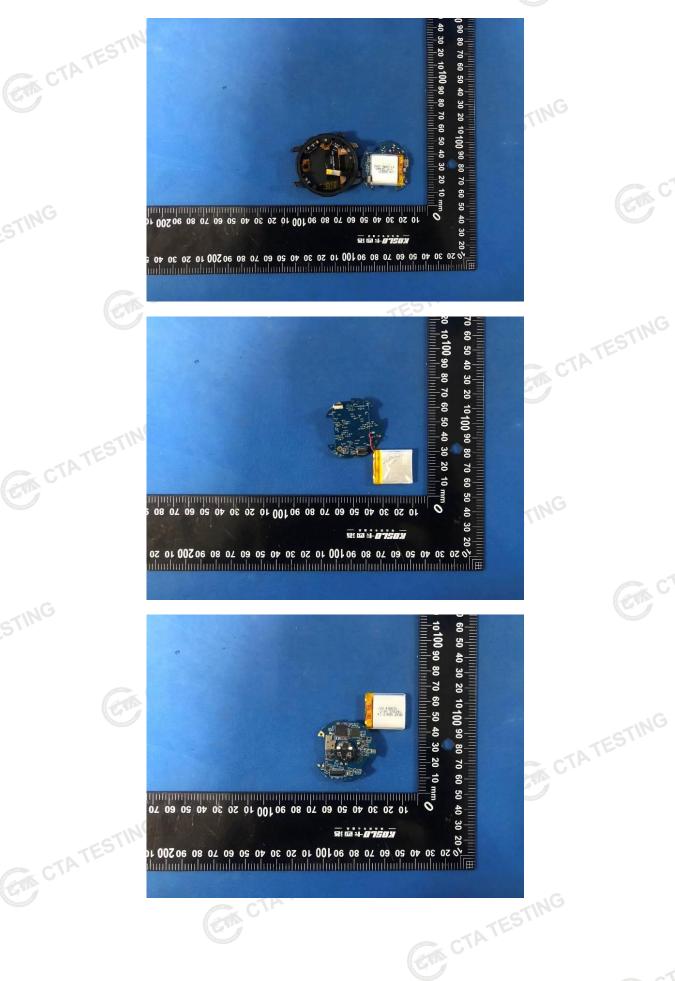
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10 50 30 40 20 60 10 80 30 00 100 50 30 40 20 60

10 20 20 30 400 10 50 30 40 20 90 10 80 30 500 10 50 30 40 20 90 10 80

10 50 30 40 20 R. 0. 4 0 1503



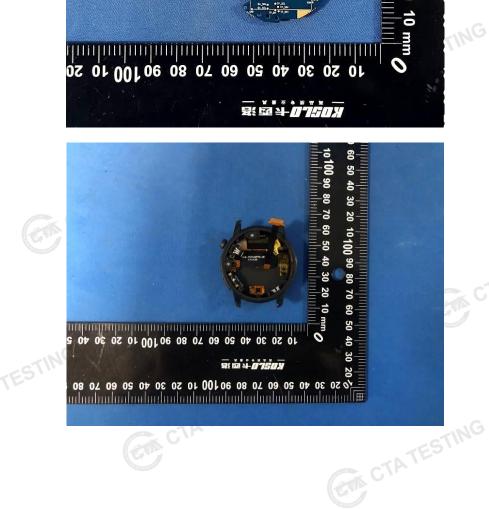




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