

TEST Report

Applicant:	Shenzhen Daiku Technology Co., Ltd.
Address of Applicant:	605-606, Building E, Longjing Science Park, No.339 Bulong Road, Longgang District, Shenzhen
Manufacturer :	Shenzhen Daiku Technology Co., Ltd.
Address of Manufacturer :	605-606, Building E, Longjing Science Park, No.339 Bulong Road, Longgang District, Shenzhen
Equipment Under Test (EL	JT)
Product Name:	smart watch
Model No.:	WATCH5PRO
Series model:	N/A
Trade Mark:	N/A
FCC ID:	2BCKX-WATCH5PRO
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	Sep. 25, 2024
Date of Test:	Sep. 25, 2024 ~ Oct. 10, 2024
Date of report issued:	Oct. 10, 2024
Test Result :	PASS *

* In the configuration tested, the EUT complied with the standards specified above.



1. Version

Version No.	Date	Description
00	Oct. 10, 2024	Original

Tested/ Prepared By

Heber He Date:

Project Engineer

Oct. 10, 2024

Bruce Zhu Date:

Oct. 10, 2024

Reviewer

Kein Och Date: Authorized Signature

Oct. 10, 2024

Approved By :

Check By:



2. Contents

1. VERSION	2
2. CONTENTS	3
3. TEST SUMMARY	4
4. GENERAL INFORMATION	
 4.1. GENERAL DESCRIPTION OF EUT 4.2. TEST MODE 4.3. DESCRIPTION OF SUPPORT UNITS 4.4. DEVIATION FROM STANDARDS 4.5. ABNORMALITIES FROM STANDARD CONDITIONS 4.6. TEST FACILITY 4.7. TEST LOCATION 4.8. ADDITIONAL INSTRUCTIONS 	7 7 7 7 7
5. TEST INSTRUMENTS LIST	8
6.1. CONDUCTED EMISSIONS 6.2. CONDUCTED OUTPUT POWER 6.3. CHANNEL BANDWIDTH. 6.4. POWER SPECTRAL DENSITY 6.5. BAND EDGES 6.5.1 Conducted Emission Method. 6.5.2 Radiated Emission Method. 6.6. SPURIOUS EMISSION. 6.6.1 Conducted Emission Method. 6.6.2 Radiated Emission Method. 6.7. ANTENNA REQUIREMENT.	9 12 13 15 17 <i>17</i> 20 20 22
7. TEST SETUP PHOTO	30
8. EUT CONSTRUCTIONAL DETAILS	30



3. Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range Measurement Uncertainty		Notes
Radiated Emission	30~1000MHz	4.37 dB	(1)
Radiated Emission	1~18GHz	5.40 dB	(1)
Radiated Emission	18-40GHz	5.45 dB	(1)
Conducted Disturbance	0.15~30MHz	2.68 dB	(1)
Note (1): The measurement unc	ertainty is for coverage factor of k	=2 and a level of confidence of §	95%.



4. General Information

4.1. General Description of EUT

Product Name:	smart watch
Model No.:	WATCH5PRO
Series model:	N/A
Test sample(s) ID:	HTT202409671-1(Engineer sample) HTT202409671-2(Normal sample)
Operation frequency	2402~2480 MHz
Number of Channels	40
Modulation Type	GFSK
Channel separation	2MHz
Antenna Type:	Wire Antenna
Antenna Gain:	-0.15 dBi
Power Supply:	DC 3.7V From Battery



Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



4.2. Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

4.3. Description of Support Units

None.

4.4. Deviation from Standards

None.

4.5. Abnormalities from Standard Conditions

None.

4.6. Test Facility

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

FCC-Registration No.: 779513 Designation Number: CN1319

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

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT 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.

4.7. Test Location

All tests were performed at:

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23595200

Fax: 0755-23595201

4.8. Additional Instructions

Test Software	Special AT test command provided by manufacturer to Keep the EUT in continuously transmitting mode and hopping mode
Power level setup	Default



5. Test Instruments list

J.								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
	3m Semi- Anechoic	Shenzhen C.R.T	01010					
1	Chamber	technology co., LTD	9*6*6	HTT-E028	Aug. 10 2024	Aug. 09 2027		
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2024	Aug. 09 2027		
3	EMI Test Receiver	Rohde&Schwar	ESCI7	HTT-E022	Apr. 26 2024	Apr. 25 2025		
4	Spectrum Analyzer	Rohde&Schwar	FSP	HTT-E037	Apr. 26 2024	Apr. 25 2025		
5	Coaxial Cable	ZDecl	ZT26-NJ-NJ-0.6M	HTT-E018	Apr. 26 2024	Apr. 25 2025		
6	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-2M	HTT-E019	Apr. 26 2024	Apr. 25 2025		
7	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-0.6M	HTT-E020	Apr. 26 2024	Apr. 25 2025		
8	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-8.5M	HTT-E021	Apr. 26 2024	Apr. 25 2025		
9	Composite logarithmic antenna	Schwarzbeck	VULB 9168	HTT-E017	May. 21 2024	May. 20 2025		
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	May. 20 2024	May. 19 2025		
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	Apr. 26 2024	Apr. 25 2025		
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	Apr. 26 2024	Apr. 25 2025		
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	Apr. 26 2024	Apr. 25 2025		
14	high-frequency Amplifier	HP	8449B	HTT-E014	Apr. 26 2024	Apr. 25 2025		
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	Apr. 26 2024	Apr. 25 2025		
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	Apr. 26 2024	Apr. 25 2025		
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May. 23 2024	May. 22 2025		
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	May. 23 2024	May. 22 2025		
19	Cable Line	Robinson	Z302S-NJ-BNCJ-1.5M	HTT-E001	Apr. 26 2024	Apr. 25 2025		
20	Attenuator	Robinson	6810.17A	HTT-E007	Apr. 26 2024	Apr. 25 2025		
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	Apr. 26 2024	Apr. 25 2025		
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	Aug. 10 2024	Aug. 09 2027		
23	DC power supply	Agilent	E3632A	HTT-E023	Apr. 26 2024	Apr. 25 2025		
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	Apr. 26 2024	Apr. 25 2025		
25	Analog signal generator	Agilent	N5181A	HTT-E025	Apr. 26 2024	Apr. 25 2025		
26	Vector signal generator	Agilent	N5182A	HTT-E026	Apr. 26 2024	Apr. 25 2025		
27	Power sensor	Keysight	U2021XA	HTT-E027	Apr. 26 2024	Apr. 25 2025		
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	Apr. 28 2024	Apr. 27 2025		
29	Radiated Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A		
30	Conducted Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A		
31	RF Test Software	panshanrf	TST	N/A	N/A	N/A		

Tel: 0755-23595200 Fax: 0755-23595201

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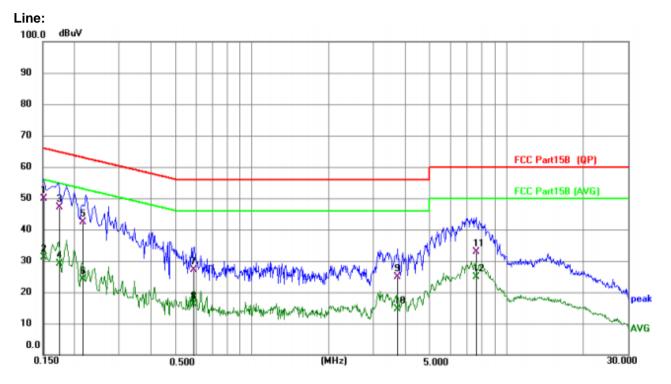
6. Test results and Measurement Data

6.1. Conducted Emissions

	-						
Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto					
Limit:		Lim	nit (dBuV)				
	Frequency range (MHz)	Quasi-peak	, i i i i i i i i i i i i i i i i i i i	erage			
	0.15-0.5 66 to 56* 56 to 46						
	0.5-5	56		46			
	5-30	60		50			
Test setup:							
Test procedure:	 * Decreases with the logarithm of the frequency. Reference Plane LISN						
Test Instruments:	according to ANSI C63.10: Refer to section 6.0 for details		measuremen	п.			
Test mode:	Refer to section 5.2 for details						
			Drocci	1010mbc=			
Test environment:	1 1	nid.: 52%	Press.:	1012mbar			
Test voltage:	AC 120V, 60Hz						
Test results:	PASS						

Remark: Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as below:.



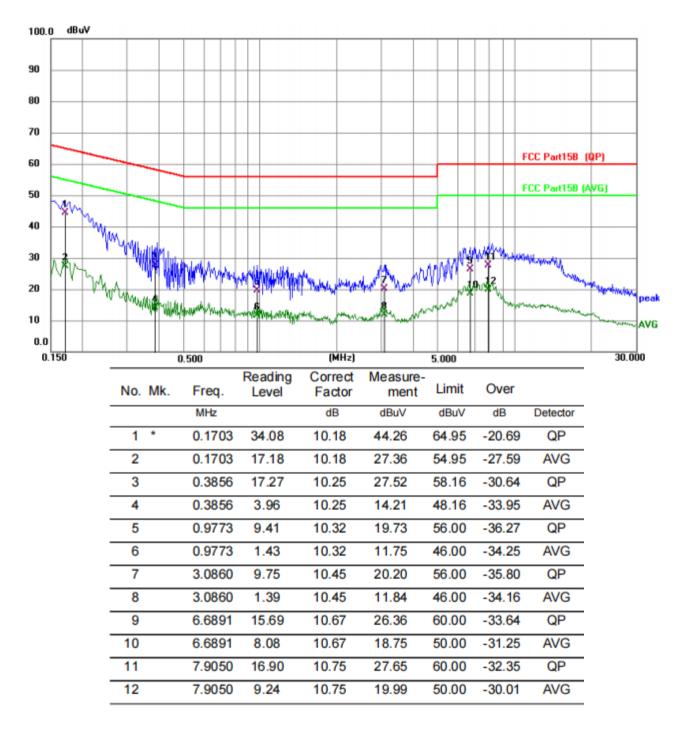


Measurement data:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1 *	0.1522	39.75	10.16	49.91	65.88	-15.97	QP
2	0.1522	21.09	10.16	31.25	55.88	-24.63	AVG
3	0.1749	36.91	10.18	47.09	64.72	-17.63	QP
4	0.1749	18.99	10.18	29.17	54.72	-25.55	AVG
5	0.2151	32.09	10.21	42.30	63.01	-20.71	QP
6	0.2151	13.80	10.21	24.01	53.01	-29.00	AVG
7	0.5901	16.92	10.31	27.23	56.00	-28.77	QP
8	0.5901	5.91	10.31	16.22	46.00	-29.78	AVG
9	3.7485	14.27	10.58	24.85	56.00	-31.15	QP
10	3.7485	4.13	10.58	14.71	46.00	-31.29	AVG
11	7.5794	22.30	10.63	32.93	60.00	-27.07	QP
12	7.5794	14.21	10.63	24.84	50.00	-25.16	AVG



Neutral:



Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Los

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Shenzhen, Guangdong, China



Test Requirement: Test Method:		5 C Section 1		D01 DTS Me	as Guidance	e V05r02
Limit:	30dBm					
Test setup:	Power M	eter Non-Conducted Tabl				
Test Instruments:	Refer to see	ction 6.0 for d	letails			
Test mode:	Refer to see	ction 5.2 for d	letails			
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar

6.2. Conducted Output Power

Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	6.53		
Middle	5.86	30.00	Pass
Highest	4.48		



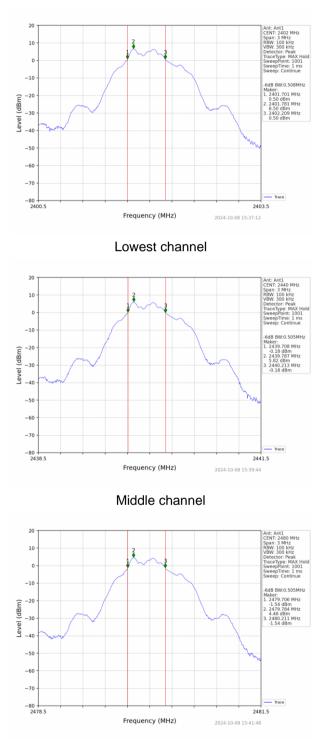
6.3. Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)							
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02							
Limit:	>500KHz							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar							

Measurement Data

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.508		
Middle	0.505	>500	Pass
Highest	0.505		





Test plot as follows:

Highest channel



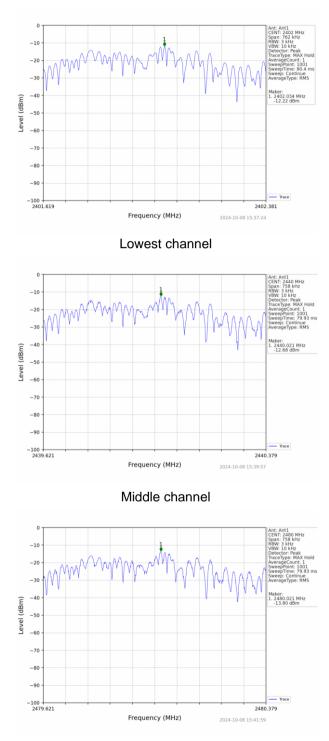
Test Requirement:	FCC Part15	FCC Part15 C Section 15.247 (e)						
Test Method:	ANSI C63.1	0:2013 and k	KDB558074 [D01 DTS Mea	as Guidanc	e V05r02		
Limit:	8dBm/3kHz	8dBm/3kHz						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table							
Toot In strum on too	Defer to oo							
Test Instruments:	Refer to see	ction 6.0 for d	letalls					
Test mode:	Refer to see	ction 5.2 for d	letails					
Test results:	Pass							
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		

6.4. Power Spectral Density

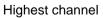
Measurement Data

Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
Lowest	-12.22		
Middle	-12.68	8.00	Pass
Highest	-13.80		





Test plot as follows:



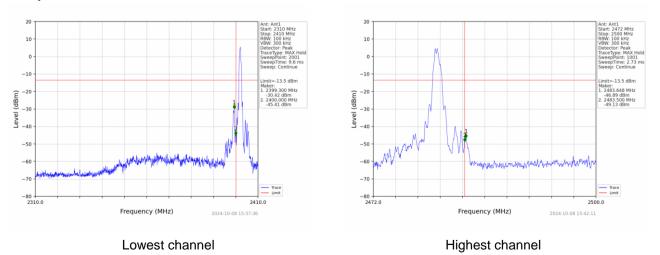


6.5. Band edges

6.5.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.							
Test setup:	radiated measurement. Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							
Test environment:	Temp.:25 °CHumid.:52%Press.:1012mbar							

Test plot as follows:



 Shenzhen HTT Technology Co.,Ltd.
 Tel: 0755-23595200 Fax: 0755-23595201

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Test Requirement: FCC Part15 C Section 15.209 and 15.205 Test Method: ANSI C63.10:2013 All of the restrict bands were tested, only the worst band's (2310MHz to Test Frequency Range: 2500MHz) data was showed. Measurement Distance: 3m Test site: Receiver setup: Detector RBW VBW Value Frequency 3MHz Peak Peak 1MHz Above 1GHz RMS 1MHz 3MHz Average Limit: Limit (dBuV/m @3m) Value Frequency 54.00 Average Above 1GHz Peak 74.00 Test setup: < 3m > Test Antenna+ < 1m ... 4m > FUT. Tum Table+ -150cm SI Preamplifier Receiver. Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details Test results: Pass Test environment: Temp.: 25 °C Humid.: 52% Press.: 1012mbar

6.5.2 Radiated Emission Method

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Measurement Data

Operation Mode: GFSK

Freque	ncy(MHz)):	24	02	Pola	arity:	HORIZONTAL			
Frequency (MHz)	Emis Le (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	59.79	PK	74	14.21	61.18	27.2	4.31	32.9	-1.39	
2390.00	46.11	AV	54	7.89	47.50	27.2	4.31	32.9	-1.39	
Freque	ncy(MHz)):	24	02	Pola	arity:		VERTICAL		
Frequency (MHz)	Emis Le (dBu		Limit (dBuV/m)	5		Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
2390.00	58.41	PK	74	15.59	(dBuV) 59.80	27.2	4.31	32.9	-1.39	
2390.00	46.60	AV	54	7.40	47.99	27.2	4.31	32.9	-1.39	
Freque	ncy(MHz)):	2480		P olarity:		HORIZONTAL			
Frequency (MHz)	Emis Le [.] (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	56.44	PK	74	17.56	57.37	27.4	4.47	32.8	-0.93	
2483.50	44.85	AV	54	9.15	45.78	27.4	4.47	32.8	-0.93	
Freque	ncy(MHz)):	24	80	Pola	arity:	VERTIC		AL	
Frequency (MHz)	Emis Le (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	55.98	PK	74	18.02	56.91	27.4	4.47	32.8	-0.93	
2483.50	43.65	AV	54	10.35	44.58	27.4	4.47	32.8	-0.93	

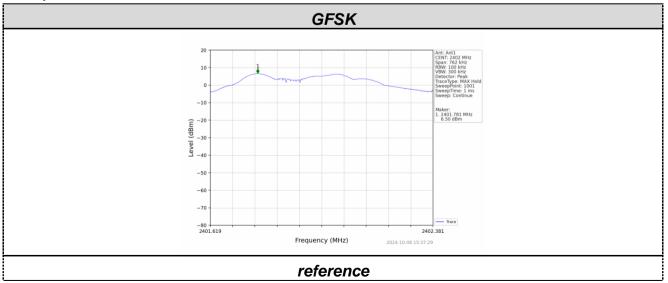


6.6. Spurious Emission

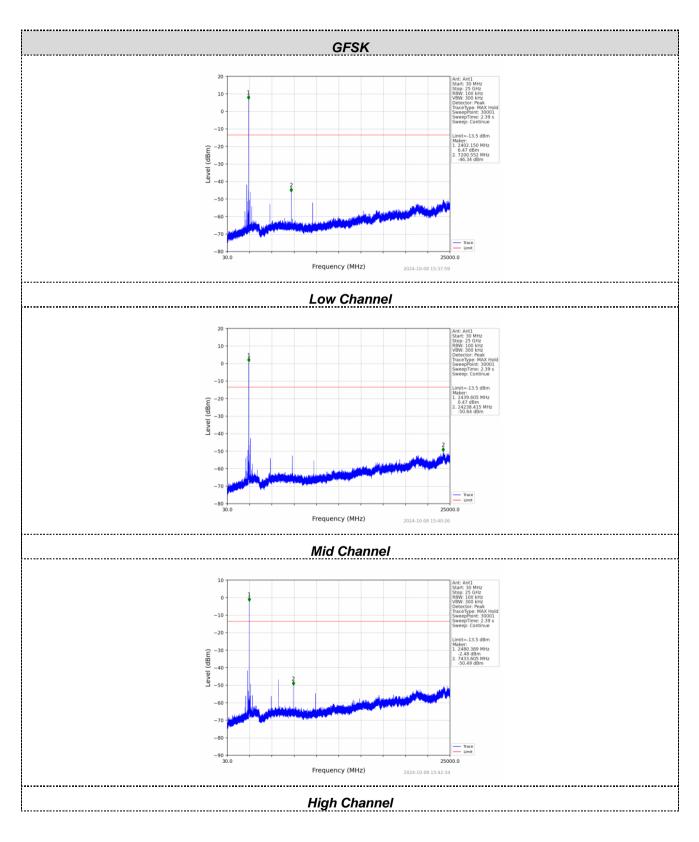
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar							

Test plot as follows:







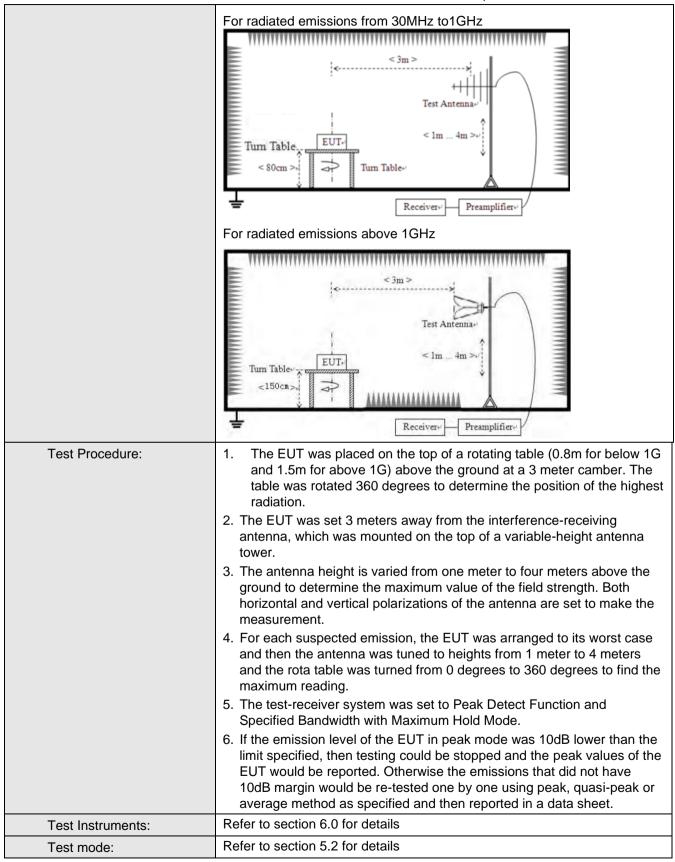
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6.6.2 Radiated Emission Metho		on 16	200					
Test Requirement: Test Method:	FCC Part15 C Section 15.209 ANSI C63.10:2013							
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	-	Detector	RB		VBW		
	9KHz-150KHz		lasi-peak	200H		600Hz		
	150KHz-30MHz		lasi-peak	9K⊢		30KH:		
	30MHz-1GHz	Qı	lasi-peak	120K		300KH		
	Above 1GHz		Peak	1M⊦		3MHz		
			Peak	1M⊦	lz	10Hz	Average	
Limit:	Frequency		Limit (u\	//m)	V	alue	Measurement Distance	
	0.009MHz-0.490M	Hz	2400/F(k	(Hz)		QP	300m	
	0.490MHz-1.705M	Hz	24000/F(KHz)	QP		30m	
	1.705MHz-30MH	z	30		QP		30m	
	30MHz-88MHz		100		QP			
	88MHz-216MHz	_	150		QP			
	216MHz-960MH	Z	200		QP		3m	
	960MHz-1GHz		500		QP		511	
	Above 1GHz	500		Ave		erage		
	Above Tonz		5000		Peak			
Test setup:	For radiated emissio	ns fr	om 9kHz to	30MH	z			
	Tum Table E < 80cm >+		< 3m > Te: 2 Tum Table+	st Antenna Im Recei	Ĭ			

6.6.2 Radiated Emission Method







Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Measurement data:

Remarks:

- 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
- 2. 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.
- 3. Based on all tested data, the EUT complied with theFCC Part 15.207 standard limit for a wireless device, and with the worst case as BLE 1M 2402MHz as below:

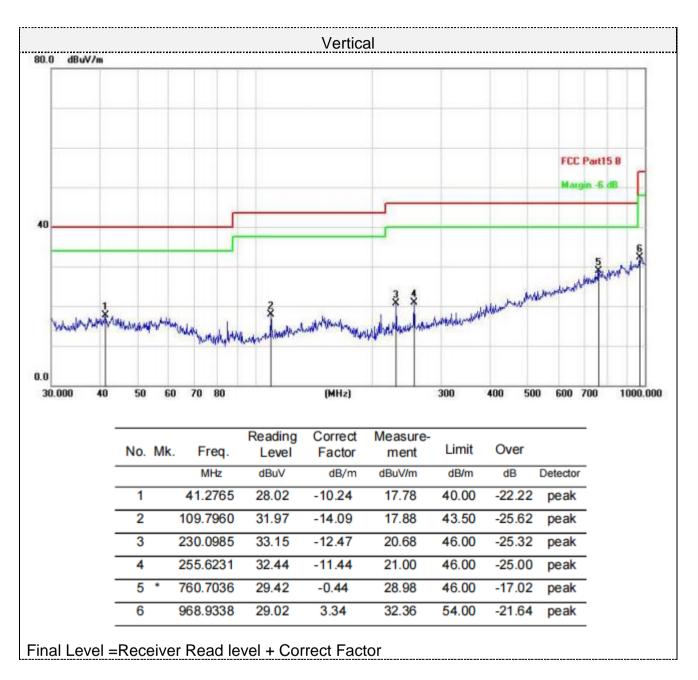


Part15 8
00 1000.000

Below 1GHz



Report No.: HTT202409671F01





Above 1-25GHz

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency	Emission Level (dBuV/m)		Limit	Margin	Raw	Antenna	Cable	Pre-	Correction
				U U	Value	Factor	Factor	amplifier	Factor
(MHz)			(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
4804.00	59.12	PK	74	14.88	53.42	31	6.5	31.8	5.7
4804.00	42.62	AV	54	11.38	36.92	31	6.5	31.8	5.7
7206.00	53.46	PK	74	20.54	40.81	36	8.15	31.5	12.65
7206.00	44.59	AV	54	9.41	31.94	36	8.15	31.5	12.65

Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/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	58.83	PK	74	15.17	53.13	31	6.5	31.8	5.7
4804.00	42.64	AV	54	11.36	36.94	31	6.5	31.8	5.7
7206.00	53.37	PK	74	20.63	40.72	36	8.15	31.5	12.65
7206.00	43.44	AV	54	10.56	30.79	36	8.15	31.5	12.65

Frequency(MHz):			2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	60.68	PK	74	13.32	54.52	31.2	6.61	31.65	6.16
4880.00	44.74	AV	54	9.26	38.58	31.2	6.61	31.65	6.16
7320.00	53.16	PK	74	20.84	40.21	36.2	8.23	31.48	12.95
7320.00	44.88	AV	54	9.12	31.93	36.2	8.23	31.48	12.95



Frequency(MHz):			2440		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	61.60	PK	74	12.40	55.44	31.2	6.61	31.65	6.16
4880.00	44.17	AV	54	9.83	38.01	31.2	6.61	31.65	6.16
7320.00	53.01	PK	74	20.99	40.06	36.2	8.23	31.48	12.95
7320.00	44.40	AV	54	9.60	31.45	36.2	8.23	31.48	12.95

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/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	62.51	PK	74	11.49	55.85	31.4	6.76	31.5	6.66
4960.00	42.75	AV	54	11.25	36.09	31.4	6.76	31.5	6.66
7440.00	53.80	PK	74	20.20	40.50	36.4	8.35	31.45	13.3
7440.00	45.08	AV	54	8.92	31.78	36.4	8.35	31.45	13.3

Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency	Emission		Limit	Margin	Raw	Antenna	Cable	Pre-	Correction
(MHz)	Frequency Level	vel		•	Value	Factor	Factor	amplifier	Factor
	(dBuV/m)		(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
4960.00	64.37	PK	74	9.63	57.71	31.4	6.76	31.5	6.66
4960.00	43.52	AV	54	10.48	36.86	31.4	6.76	31.5	6.66
7440.00	54.41	PK	74	19.59	41.11	36.4	8.35	31.45	13.3
7440.00	45.76	AV	54	8.24	32.46	36.4	8.35	31.45	13.3

Remark:

(1) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(2) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.

Shenzhen HTT Technology Co.,Ltd.Tel: 0755-23595200Fax: 0755-235952011F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District,
Shenzhen, Guangdong, ChinaShenzhen, Guangdong, China



6.7. 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 maximum gain of antenna was -0.15 dBi.

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



7. Test Setup Photo

Reference to the **appendix I** for details.

8. EUT Constructional Details

Reference to the **appendix II** for details.

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