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TEST REPORT

Report No.: CQASZ20230600987E-01

Applicant: Shenzhen DO Intelligent Technology Co., Ltd

Address of Applicant: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua

District, Shenzhen, China

Equipment Under Test (EUT):

Product: Smart Watch

Model No.: GT01 mini, BW01, KR02

Teat Model No.: GT01 mini

Brand Name: IDO

FCC ID: 2AHFT468

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2023-06-02

Date of Test: 2023-06-02 to 2023-06-15

Date of Issue: 2023-06-28
Test Result: PASS*

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

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By: (Jack Ai)





Report No.: CQASZ20230600987E-01

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20230600987E-01	Rev.01	Initial report	2023-06-28

Note:

Here the product #1 means the product version in original FCC grant (model: GT01 mini), product #2 means the modified new product version in this permissive change application (model: BW01, KR02).

The difference between product #1 and product #2 is that the sensor model on the motherboard is different including having different sensor supplier. The sensor model for product #1 is SC7A22; and the sensor model for product #1 is STK8321. The key differences are the appearance and the model number. These changes do not affect RF performance.

This report only contains the test data for product #2. For the test result for product #1, please refer to original test report NO.CQASZ20210901625E



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2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	N/A
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	N/A
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	N/A
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	N/A
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	N/A
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

Note:

For the fundamental testing items that are not applicable here since the application type is permissive change, please refer to the FCC test report in original grant for the result.



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4 General Information

4.1 Client Information

Applicant:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Applicant:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua
	District, Shenzhen, China
Manufacturer:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Manufacturer:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua
	District, Shenzhen, China
Factory:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Factory:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua
	District, Shenzhen, China

4.2 General Description of EUT

Product Name:	Smart Watch
Model No.:	GT01 mini, BW01, KR02
Test Model No.:	GT01 mini
Trade Mark:	IDO
Hardware Version:	V1.2
Software Version:	V6
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.1
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable
Test Software of EUT:	BLE_DTM_1.2.2
Antenna Type:	Internal antenna
Antenna Gain:	-1.76dBi
EUT Power Supply:	lithium battery:DC3.8V, 210mAh, 0.798Wh, Charge by DC5.0V 180mA



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

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 (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

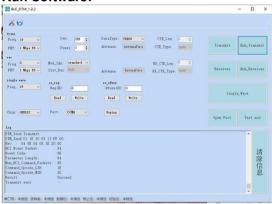


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4.3 Additional Instructions

EUT Test Software Settings:					
Mode:		 Special software is used. ☐ Through engineering command into the engineering mode. engineering command: *#*#3646633#*#* 			
EUT Power level:	Class2 (Power level is built-in set pa selected)	Class2 (Power level is built-in set parameters and cannot be changed and selected)			
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.					
Mode	Channel	Channel Frequency(MHz)			
	CH0 2402				
GFSK	K CH19 2440				
	CH39 2480				

Run Software:





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4.4 Test Environment

Operating Environment	:
Radiated Emissions:	
Temperature:	27 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item t	est (RF Conducted test room):
Temperature:	24.2°C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.
	Note: In the process of transmitting of EUT, the duty cycle $>$ 98%.

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
1	1	1	1	1

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
1	/	1	1	/





4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** guality 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 CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

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



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4.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Deviation from Standards

None.

4.10 Other Information Requested by the Customer

None.



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4.11 Equipment List

华夏准测

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/9/14	2024/9/13
Bilog Antenna	R&S	HL562	CQA-011	2021/9/14	2024/9/13
Horn Antenna	R&S	HF906	CQA-012	2021/9/14	2024/9/13
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/14	2024/9/13
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2022/9/9	2023/9/8
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/9/9	2023/9/8

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is Internal antenna. The best case gain of the antenna is -1.76dBi.





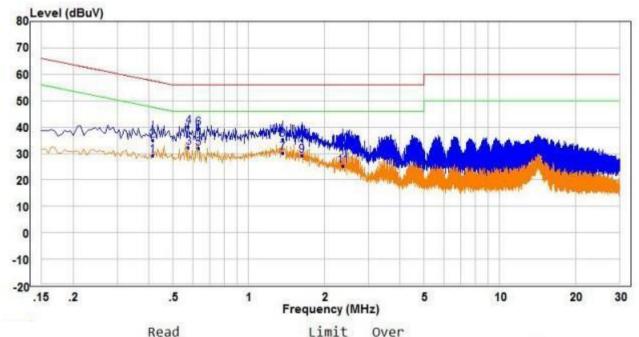
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:	Eroguanov rango (MHz)	Limit (c	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				
	* Decreases with the logarithn	n of the frequency.					
Test Procedure:	The mains terminal disturb room.	-					
	2) The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the radio 3) The tabletop EUT was pla ground reference plane. A placed on the horizontal ground reference plane with the EUT shall be 0.4 m vertical ground reference reference plane. The LISN unit under test and bon mounted on top of the ground region.	etwork) which provides cables of all other CN 2, which was bonders the LISN 1 for the was used to connect reating of the LISN was reced upon a non-metand for floor-standing a cound reference plane. The a vertical ground reference plane was bonded 1 was placed 0.8 m ded to a ground reference of the cound reference of the vertical ground reference of the vertical ground reference of the country that was placed 0.8 m ded to a ground reference of the country that was pla	s a 50Ω/50μH + 5Ω linear units of the EUT were at to the ground reference unit being measured. A multiple power cables to a not exceeded. Allic table 0.8m above the trangement, the EUT was ference plane. The rear of and reference plane. The to the horizontal ground from the boundary of the ference plane for LISNs				
	mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to						
	ANSI C63.10: 2013 on cor	nducted measurement.					
Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 AC Ma Ground Reference Plane	Test Receiver				
Test Mode:	Transmitting with GFSK modu	lation. Charging mode					
Test Results:	Pass						



Measurement Data

Live line:



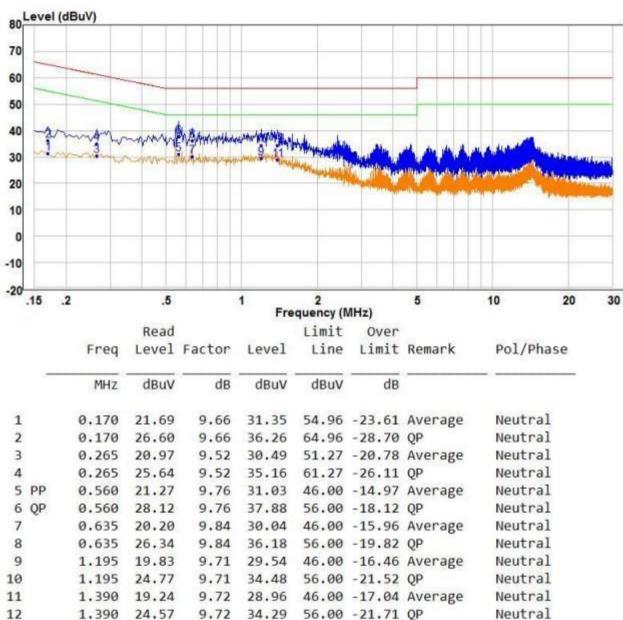
		Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	_	MHz	dBuV	dB	dBuV	dBuV	dB	-	
1		0.415	19.76	9.62	29.38	47.55	-18.17	Average	Line
2		0.415	25.42	9.62	35.04	57.55	-22.51	QP	Line
3	PP	0.575	22.54	9.78	32.32	46.00	-13.68	Average	Line
4		0.575	30.32	9.78	40.10	56.00	-15.90	QP	Line
5		0.630	22.14	9.83	31.97	46.00	-14.03	Average	Line
6		0.630	29.79	9.83	39.62	56.00	-16.38	QP	Line
7		1.365	19.48	10.57	30.05	46.00	-15.95	Average	Line
8		1.365	24.75	10.57	35.32	56.00	-20.68	QP	Line
9		1.630	18.03	11.07	29.10	46.00	-16.90	Average	Line
10		1.630	24.04	11.07	35.11	56.00	-20.89	QP	Line
11		2.375	14.07	11.28	25.35	46.00	-20.65	Average	Line
12		2.375	22.02	11.28	33.30	56.00	-22.70	QP	Line

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



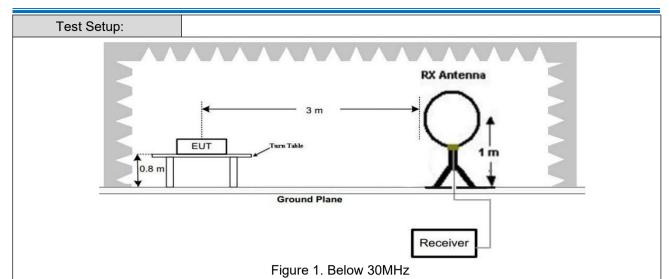


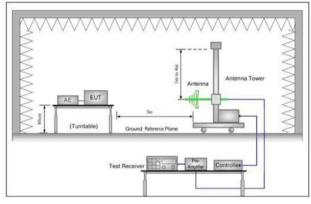
5.3 Radiated Spurious Emission & Restricted bands

5.3.1 Spurious Emissions										
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 2013									
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)									
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark				
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak				
	0.110MHz-0.490MH	Z	Peak	10kHz	z 30kHz	Peak				
	0.110MHz-0.490MH	Z	Average	10kHz	z 30kHz	Average				
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak				
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak				
	Above 1GHz		Peak 1MHz		3MHz	Peak				
	Above 1GHZ		Peak	1MHz	10Hz	Average				
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)				
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30				
	1.705MHz-30MHz		30	ı	ı	30				
	30MHz-88MHz		100	40.0	Quasi-peak	3				
	88MHz-216MHz		150	43.5	Quasi-peak	3				
	216MHz-960MHz		200	46.0	Quasi-peak	3				
	960MHz-1GHz		500	54.0	Quasi-peak	3				
	Above 1GHz		500	54.0	Average	3				
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20d quip	IB above the imment under t	maximum est. This p	permitted ave	erage emission				



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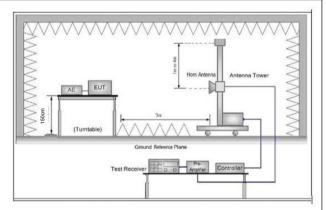


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

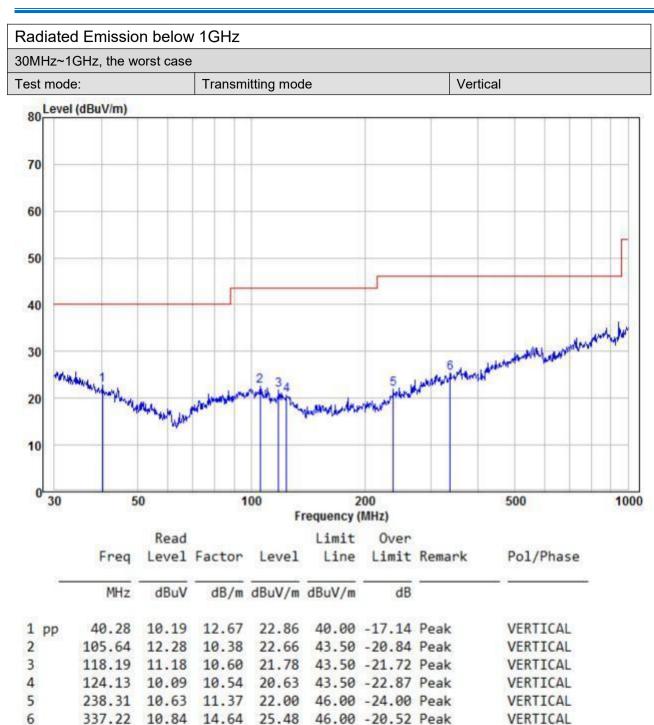
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the



	measurement.
	 d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified
	Bandwidth with Maximum Hold Mode.
	f. 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, quasi-peak or average method as specified and then reported in a data sheet.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 2Mbps of data type and GFSK modulation is the worst case.
	For below 1GHz part, through pre-scan, the worst case is the highest channel.
	Only the worst case is recorded in the report.
Test Results:	Pass

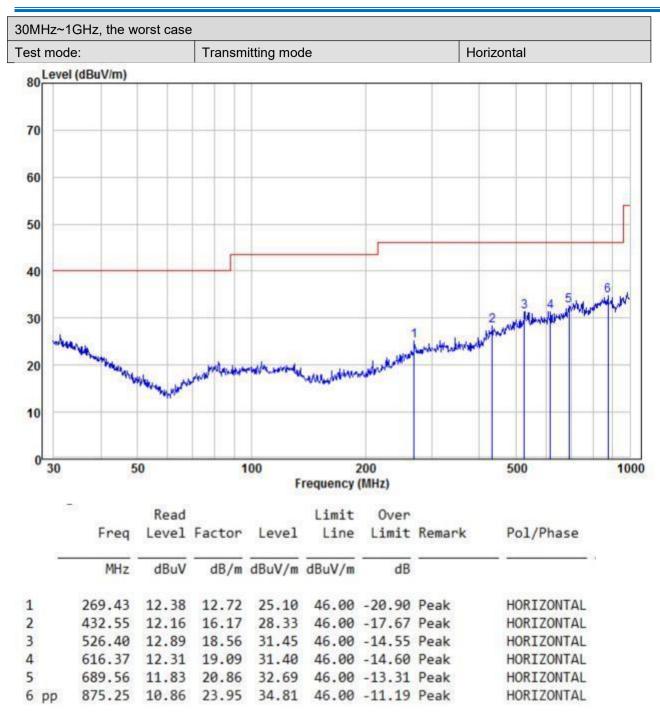














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Transmitter Emission above 1GHz

Worse case mode:		GFSK		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	54.75	-9.2	45.55	74	-28.45	Peak	Н
2400	56.03	-9.39	46.64	74	-27.36	Peak	Н
4804	53.61	-4.33	49.28	74	-24.72	Peak	Н
7206	49.65	1.01	50.66	74	-23.34	Peak	Н
2390	55.43	-9.2	46.23	74	-27.77	Peak	V
2400	54.99	-9.39	45.60	74	-28.40	Peak	V
4804	54.73	-4.33	50.40	74	-23.60	Peak	V
7206	48.85	1.01	49.86	74	-24.14	Peak	V

Worse case mode:		GFSK		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
4880	51.37	-4.11	47.26	74	-26.74	peak	Н
7320	49.37	1.51	50.88	74	-23.12	peak	Н
4880	53.85	-4.11	49.74	74	-24.26	peak	V
7320	49.01	1.51	50.52	74	-23.48	peak	V

Worse case mode:		GFSK		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.5	54.42	-9.29	45.13	74	-28.87	Peak	Н
4960	51.53	-4.04	47.49	74	-26.51	Peak	Н
7440	50.64	1.57	52.21	74	-21.79	Peak	Н
2483.5	54.01	-9.29	44.72	74	-29.28	Peak	V
4960	50.29	-4.04	46.25	74	-27.75	Peak	V
7440	48.63	1.57	50.20	74	-23.80	Peak	V

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



6 Photographs - EUT Test Setup

6.1 Conducted Emission



6.2 Radiated Spurious Emission











7 Photographs - EUT Constructional Details

















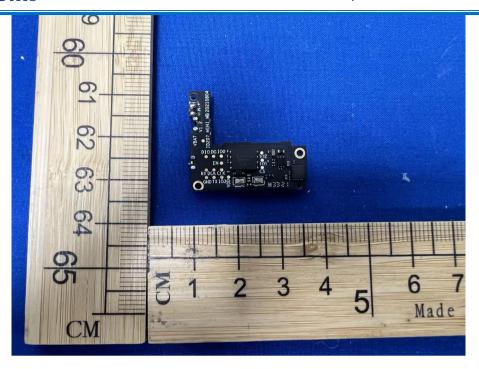


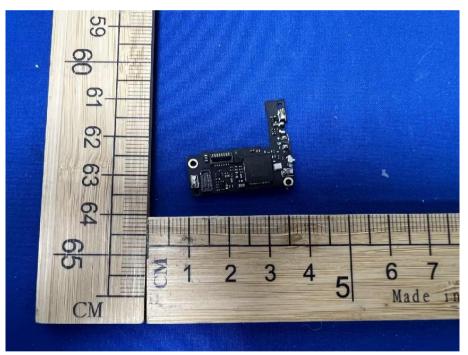




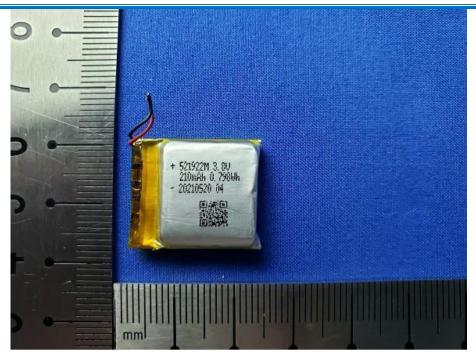




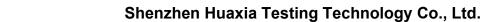
























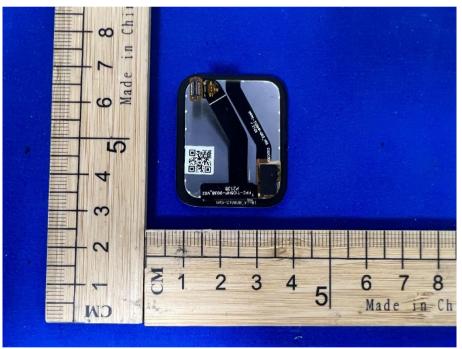




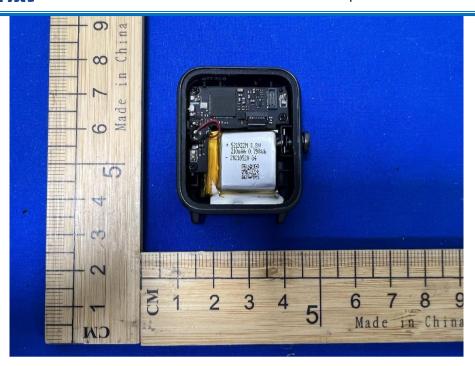


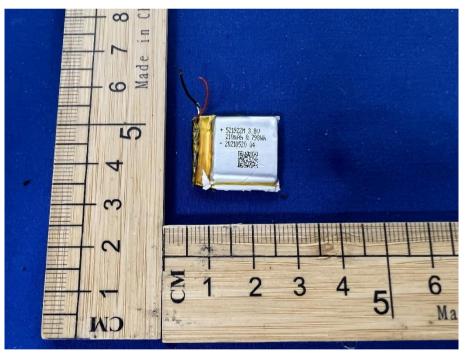




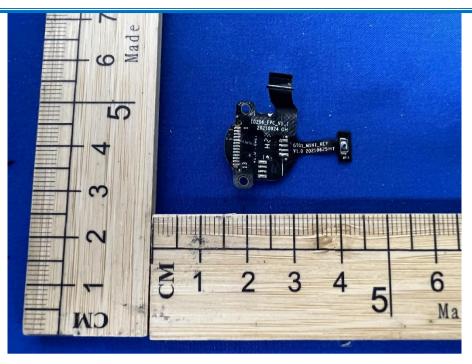


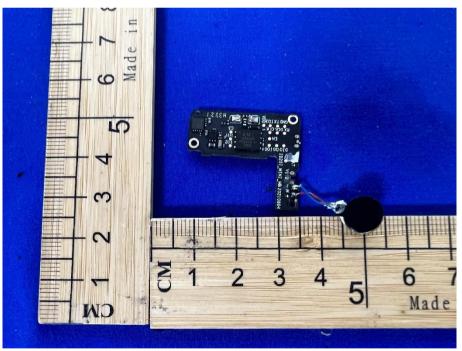






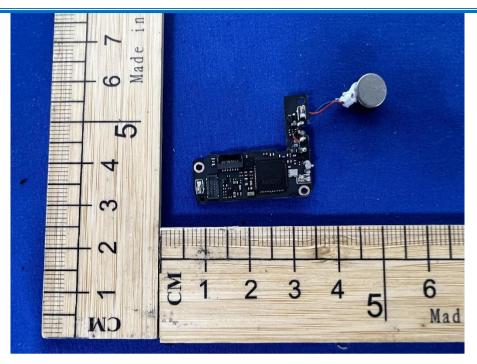








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The End