TERMÓMETRO DIGITAL

INFRARROJO SIN CONTACTO

La elección ideal para medir la temperatura corporal en 1 segundo de forma precisa y sin contacto.

Especificaciones Técnicas

- Tipo de medición: Sin contacto.
- Sensor: Infrarrojo ultra sensible.
- Rango de temperatura: 35.0 - 42.0 °C.
- Error máximo: ±0.2 °C.
- Matriz de memoria: 32 grupos.
- Temperatura de operación: 16 ~ 35 °C.
- Humedad de trabajo: ≤85% RH.
- Atmósfera de trabajo: 70.0 ~ 106.0 kPa.
- Operación: 3 botones y 1 pulsador.
- Alimentación: 3V DC.
- Peso: 123g.
- Certificaciones: FDA, CE.

Descripción

Toma la temperatura de forma rápida y sencilla, sin contacto con infrarrojos. Este termómetro posee la última tecnología en infrarrojos para mostrar lecturas precisas en segundos. No es necesario ningún contacto físico para obtener una lectura de la temperatura corporal. No es invasivo ya que trabaja a distancia y entrega la información a través de su pantalla LCD. Elimina el contacto físico y disminuye la posibilidad de contaminación cruzada entre los usuarios mientras realiza un silencioso monitoreo sin molestar.

El termómetro tiene un sonido de pitido de alerta para altas temperaturas, sin embargo esta función puede ser desactivada por lo que no emite sonido mientras se toman las mediciones.

Dispone de 2 modos de medición para temperatura corporal y objetos. La alarma ajustable alerta al usuario visual y audiblemente cuando la temperatura excede el límite programado.

Pasos para tomar la temperatura:

1. Evite cualquier cabello o sudoración.
2. Apuntar a la frente del paciente desde una distancia entre 3 a 5 cm.
3. Presione el pulsador y espere un segundo para visualizar la lectura de la temperatura.

Fiscal Year 2020

CERTIFICATE OF FDA REGISTRATION

Owner/Operator Number: 10068766

Proprietary Name	Product Codes	Device Class	Listing Number	Establishment Operations
Non contact infrared thermometer	FQZ	1	D389161	Manufacturer

Confirm that such registration remains effective upon request and presentation of this certificate until the end of the calendar year stated above, unless said registration is terminated after issuance of this certificate. We makes no other representations or warranties, nor does this certificate make sole benefit it is issued. This certificate does not denote endorsement or approval of the certificate-holder`s device or establishment by the U.S. Food and Drug Administration. we assumes no liability to any person or entity in connection with the foregoing. The U.S. Food and Drug Administration does not issue a certificate of registration, nor does the U.S. Food and Drug Administration recognize a certificate of registration. we are not affiliated with the U.S.

Jimmy engineer

For and on behalf of
UGK-LVM UNITED INC.

Authorized Signature(S)

Issued: April. 10, 2020

Expiration Date: Dec31, 2020

US Food & Drug Administration

Web: http://www.fda.gov Tel: 1-888-INFO-FDA (1-888-463-6332) e-mail: webmail@oc.fda.gov

VERIFICATION OF CONFORMITY

Certificate No. : CTL2003094021-EC

Product	:	ELECTRONIC INFRARED TEERMOMETER
Trademark	:	N/A
Model(s)	:	YTG-002

Test Report : CTL2003094021-E

Complies with the requirements of the
EC EMC directive 2014/30/EU with amendments.

Test Standards:

EN 60601-1-2: 2015

Remarks:
Based on the voluntary assessment of the product sample and technical file, we confirm that the above-mentioned product meets the requirements of the EC directive. The CE mark as show below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC declaration of conformity and compliance with all relevant EC directives.

CE

For Chief Executive
Mar. 12, 2020

Shenzhen CTL Testing Technology Co., Ltd.
Add.: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055
Tel: 86-755-89486194 E-Mail: ctl@ctl-lab.com web: www.ctl-lab.com

Shenzhen CTL Testing Technology Co.,Ltd.
Tel: 0755-89486194 E-Mail: ctl@ctl-lab.com

Test Report

EN 60601-1-2: 2015

Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests

Report Reference No.....:	**CTL2003094021-E**
Compiled by (position+printed name+signature)..:	File administrators Rambo Li
Supervised by (position+printed name+signature)..:	Technique principal Ivan Xie
Approved by (position+printed name+signature)..:	Manager Tracy Qi
Date of issue.....:	Mar. 12, 2020
Testing Laboratory Name.....:	**Shenzhen CTL Testing Technology Co.,Ltd.**
Address.....:	Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055
Testing location/ procedure.....:	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing methods ☐

Test specification:	
Standard.....:	**EN 60601-1-2: 2015**
Non-standard test method.....:	/
Test Report Form No.....:	
TRF Originator.....:	Shenzhen CTL Testing Technology Co.,Ltd
Master TRF.....:	Dated 2011-01

Test item description.....:	**ELECTRONIC INFRARED THERMOMETER**
Trade Mark.....:	N/A
Test voltage.....:	DC 3V
Result.....:	**Pass**

EMC -- Test Report

Test Report No. :	**CTL2003094021-E**	Mar. 12, 2020 Date of issue

Equipment under Test : ELECTRONIC INFRARED THERMOMETER

Type / Model : YTG-002

Listed Models : N/A

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.

History of this test report

Report No.	Version	Description	Issued Date
CTL2003094021-E	V1.0	Initial Issued Report	Mar. 12, 2020

Contents

1. TEST STANDARDS

The tests were performed according to following standards:

EN 60601-1-2: 2015 Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests

2. SUMMARY

2.1. General Remarks:

Date of receipt of test sample : Mar. 10, 2020

Sampling and Testing commenced on : Mar. 10, 2020

Testing concluded on : Mar. 12, 2020

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage : o 230V / 50 Hz o 115V / 60Hz
o 12 V DC o 24 V DC
■ Other (specified in blank below)

DC 3V

2.3. Short description of the Equipment under Test (EUT)

The EUT is a ELECTRONIC INFRARED TEERMOMETER

2.4. EUT operation mode:

The equipment under test was operated during the measurement under the following conditions:

The tests are carried out with surge protective devices disconnected.

Test program (customer specific)

Emissions tests……: According to EN 60601-1-2, searching for the highest disturbance.

Immunity tests ……..: According to EN 60601-1-2, searching for the highest susceptivity.

2.5. EUT configuration:

(The CDF filled by the applicant can be viewed at the test laboratory.)

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

■- supplied by the manufacturer

o - supplied by the lab

2.6. Performance Criteria

Definition related to the performance level:

☒ based on the used product standard
☐ based on the declaration of the manufacturer, requestor or purchaser

Criterion A:
Definition: normal performance within limits specified by the manufacturer, requestor or purchaser:

The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Criterion B:
Definition: temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention:

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Criterion C:
Definition: temporary loss of function or degradation of performance, the correction of which requires operator intervention:

Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co.,Ltd.
Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

3.2. Test Facility

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

IC Registration No.: 9618A

The 3m alternate test site of Shenzhen CTL Testing Technology Co.,Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9618A on May, 2011.

FCC-Registration No.: 399832

Shenzhen CTL Testing Technology Co., Ltd. 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 399832, December 08, 2017.

Certificated by A2LA, USA
Registration No.:4343.01
Date of registration: December 27, 2017

3.3. Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Test Description

Emission Measurement		
Radiated Emission	EN 60601-1-2: 2015	PASS
Immunity Measurement		
Electrostatic Discharge	EN 60601-1-2: 2015 IEC 61000-4-2: 2008	PASS
RF Field Strength Susceptibility	EN 60601-1-2: 2015 IEC 61000-4-3: 2010	PASS
Power Frequency Magnetic Field Susceptibility Test	EN 60601-1-2: 2015 IEC 61000-4-8: 2009	PASS

Remark:
1. The test result PASS and /or FAIL has no relationship with the measurement uncertainty.

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 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 CTL 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 CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission(chamber 1)	30~1000MHz	±3.20dB	(1)
Radiated Emission(chamber 2)	30~1000MHz	±3.53dB	(1)
Conducted Emission	0.15~30MHz	±2.66dB	(1)
Disturbance Power	30~300MHz	±2.90dB	(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

Radiated Emission(chamber 1)						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	ULTRA-BROADBAND ANTENNA	Sunol Sciences Corp.	JB1 Antenna	A061713	2019/05/23	2020/05/22
2	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2019/05/21	2020/05/20
3	Horn Antenna	Sunol Sciences Corp	DRH-118	A062013	2019/05/23	2020/05/22
Software:						
Name of Software:				Version:		
ES-K1(Below 1GHz)				V1.71		
e3(Above 1GHz)				6.111221a		

Electrostatic Discharge						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	ESD Simulator	TESEQ AG	NSG 437	1058	2019/09/24	2020/09/23

Power Frequency Magnetic Field Susceptibility						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	Ultra Compact Simulator	HTEC Instruments Ltd.	HPFMF	154402	2019/05/23	2020/05/22

RF Field Strength Susceptibility						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	SIGNAL GENERATOR	Agilent	N5182A	MY50142850	2019/05/20	2020/05/19
2	Power Amplifier	AR	150W1000M3	117	2019/09/23	2020/09/22
3	Power Amplifier	MicoTop	MPA-1000-6000-100	MPA1906286	2019/09/23	2020/09/22
4	Power Meter	Agilent	E4419B	GB43317877	2019/09/23	2020/09/22
5	Directional Coupler	AR	DC6180A	N/A	2019/09/23	2020/09/22
6	Test Antenna-Bi-Log	Schwarzbeck	VULB 9118 E	N/A	2019/09/26	2020/09/25
7	Horn Antenna	Sunol Sciences Corp	DRH-118	A062013	2019/05/23	2020/05/22
8	Power transmitter	HP	8481A	2349A43969	2019/09/23	2020/09/22
9	Power transmitter	Agilent	E9301A	MQ/2217182-2	2019/09/23	2020/09/22
Software:						
Name of Software:				Version:		
EM 3				V1.1.7		

4. TEST CONDITIONS AND RESULTS

4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

4.1.1. Description of the test location

Test location: Radiation 1#

4.1.2. Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

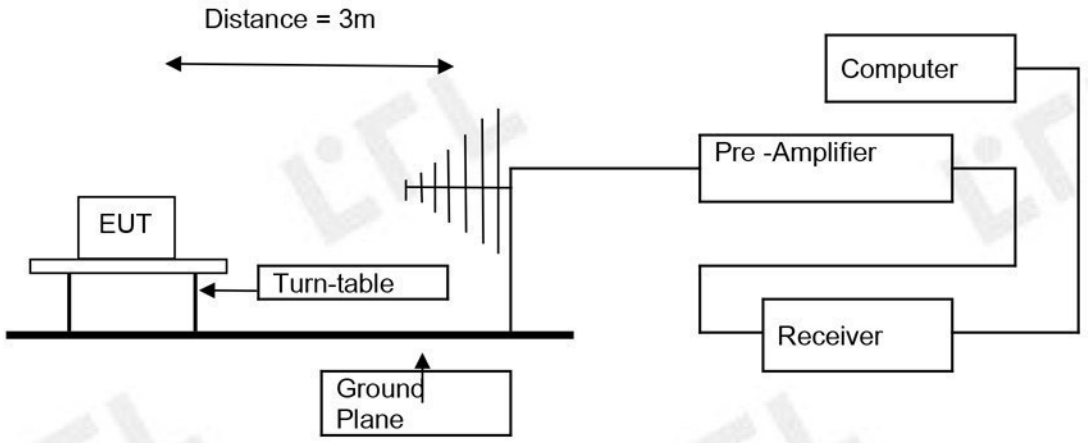
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

4.1.3. Description of the test set-up

4.1.3.1. Operating Condition

The EUT is set to work shall be carried out with full load mode during the test, and the maximum emanating results are recorded.

4.1.3.2. Configuration of test setup



4.1.4. Test result

The requirements are **Fulfilled**

Band Width: 120KHz

Frequency Range: 30MHz to 1000MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

Shenzhen CTL Testing Technology Co.,Ltd

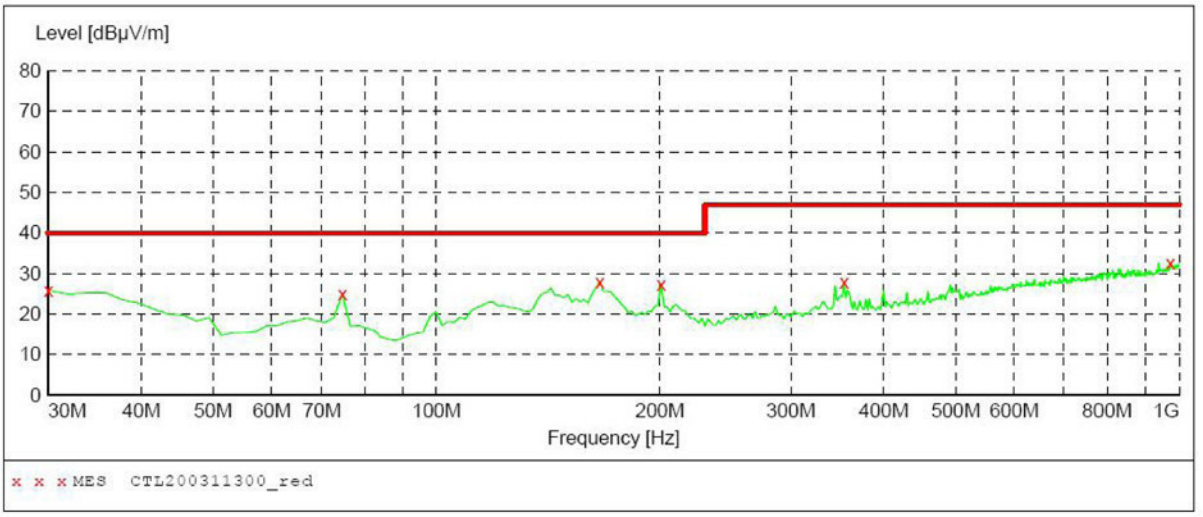
Radiation Emission Test EN 60601-1-2

EUT:	YTG-002
Manufacturer:	YING TAI ELECTRONICS CO., LIMITED
Operating Condition:	WORKING
Test Site:	Chamber1
Operator:	LYQ
Test Specification:	DC 3V
Comment:	/
Start of Test:	2020-3-11 / 9:26:18

SWEEP TABLE: "test (30M-1G)"

Short Description: Field Strength

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	100 kHz	JB1



MEASUREMENT RESULT: "CTL200311300_red"

2020-3-11 9:27

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	25.80	22.2	40.0	14.2	---	0.0	0.00	VERTICAL
74.620000	24.90	9.1	40.0	15.1	---	0.0	0.00	VERTICAL
165.800000	28.00	14.5	40.0	12.0	---	0.0	0.00	VERTICAL
200.720000	27.30	14.7	40.0	12.7	---	0.0	0.00	VERTICAL
353.980000	27.80	17.4	47.0	19.2	---	0.0	0.00	VERTICAL
972.840000	32.60	27.8	47.0	14.4	---	0.0	0.00	VERTICAL

Shenzhen CTL Testing Technology Co.,Ltd

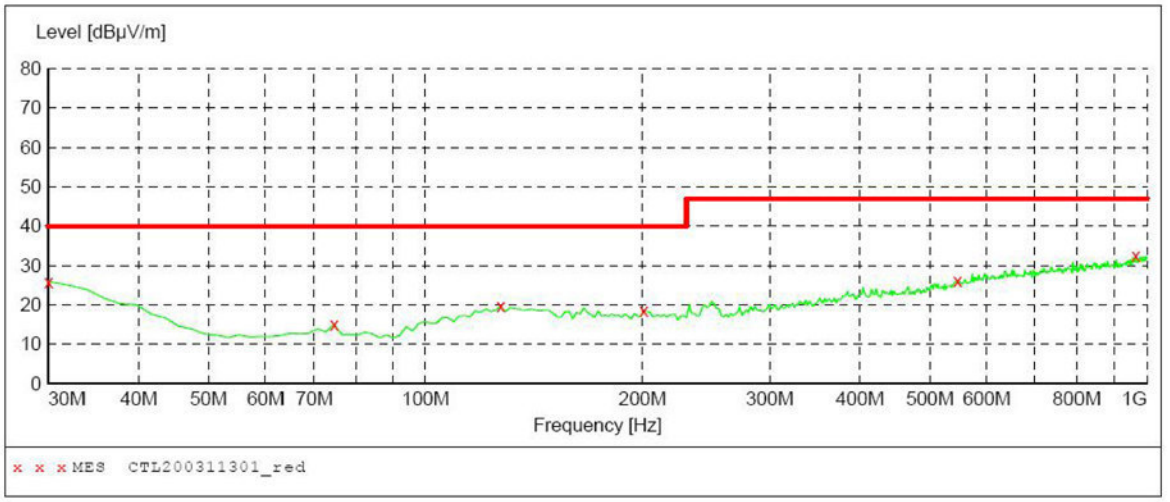
Radiation Emission Test EN 60601-1-2

EUT: YTG-002
Manufacturer: YING TAI ELECTRONICS CO., LIMITED
Operating Condition: WORKING
Test Site: Chamber1
Operator: LYQ
Test Specification: DC 3V
Comment: /
Start of Test: 2020-3-11 / 9:28:07

SWEEP TABLE: "test (30M-1G)"

Short Description: Field Strength

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	100 kHz	JB1



MEASUREMENT RESULT: "CTL200311301_red"

2020-3-11 9:29

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	25.90	22.2	40.0	14.1	---	0.0	0.00	HORIZONTAL
74.620000	15.00	9.1	40.0	25.0	---	0.0	0.00	HORIZONTAL
127.000000	19.60	15.3	40.0	20.4	---	0.0	0.00	HORIZONTAL
200.720000	18.50	14.7	40.0	21.5	---	0.0	0.00	HORIZONTAL
546.040000	26.00	21.8	47.0	21.0	---	0.0	0.00	HORIZONTAL
965.080000	32.50	27.6	47.0	14.5	---	0.0	0.00	HORIZONTAL

4.2. Electrostatic discharge

For test instruments and accessories used see section 3.6.

4.2.1. Description of the test location and date

Test location: 1# EMC Test Room

Date of test: Mar. 11, 2020

Operator: Li

4.2.2. Severity levels of electrostatic discharge

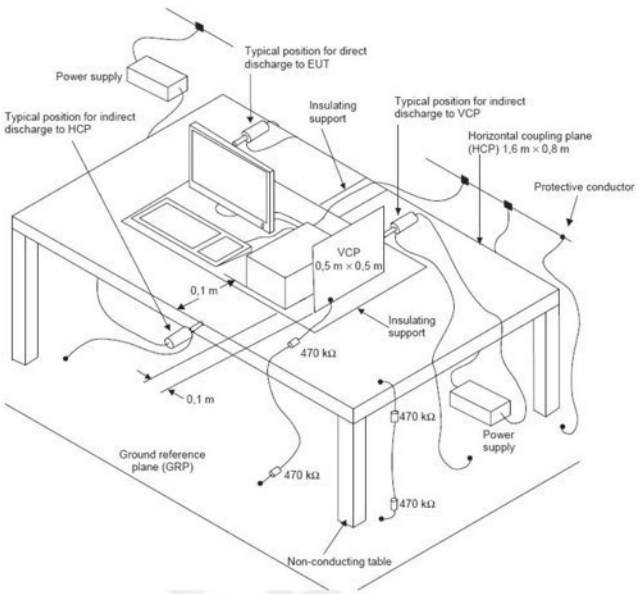
Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1	2	2
2	4	4
3	6	8
4	8	15
X	Special	Special

4.2.3. Description of the test set-up

4.2.3.1. Operating Condition

The EUT is set to work shall be carried out with normal working mode during the test, and the maximum emanating results are recorded.

4.2.3.2. Configuration of test setup



4.2.4. Test specification:

Contact discharge voltage:	■ 2 kV	■ 4 kV	■ 8 kV	
Air discharge voltage:	■ 2 kV	■ 4 kV	■ 8 kV	■ 15 kV
Number of discharges:	■ ≥ 10	□ ≥ 25		
Type of discharge:	Direct discharge	■ Air discharge ■ Contact discharge		
	Indirect discharge	■ Contact discharge		
Polarity:	■ Positive	■ Negative		
Discharge location:	■ see photo documentation of the test set-up			
	■ all external locations accessible by hand			
	■ horizontal plate (HCP)			
	■ vertical coupling plate (VCP)			

4.2.5. Test result

The requirements are **Fulfilled** Performance Criterion: **B**

Remarks: During the test no deviation was detected to the selected operation mode(s).

4.3. Radiated, radio-frequency, electromagnetic field

For test instruments and accessories used see section 3.6.

4.3.1. Description of the test location and date

Test location: Chamber 2

Date of test: Mar. 11, 2020

Operator: Li

4.3.2. Severity levels of radiated, radio-frequency, electromagnetic field

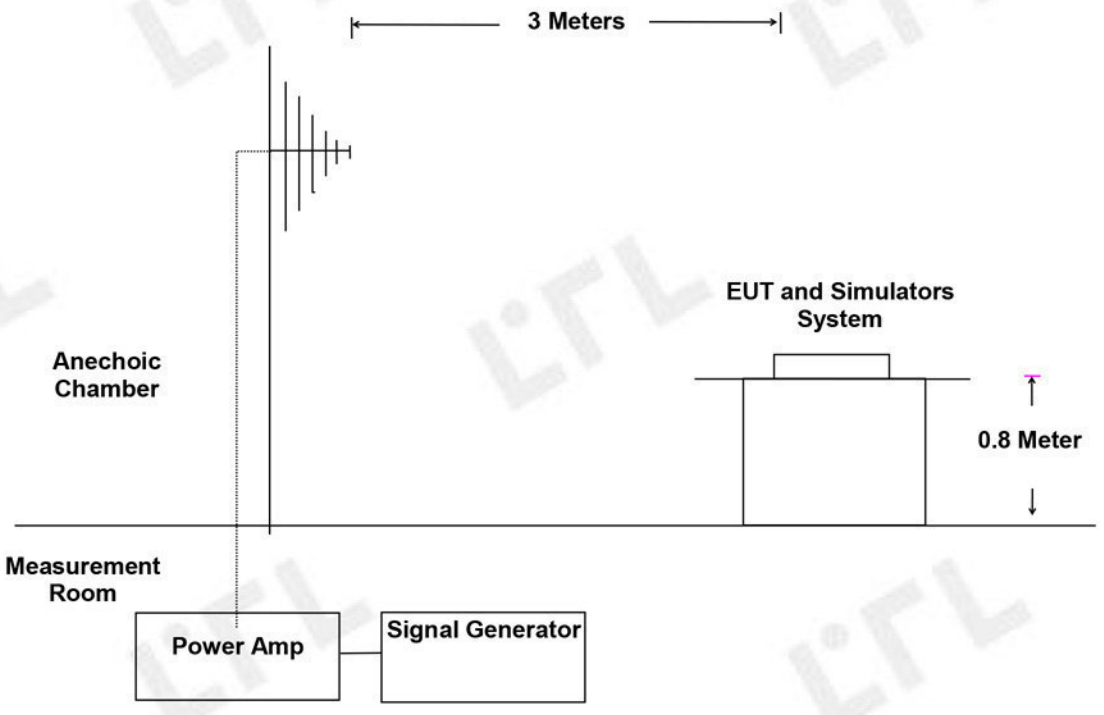
Level	Field Strength (V/m)
1.	1
2.	3
3.	10
X	Special

4.3.3. Description of the test set-up

4.3.3.1. Operating Condition

The EUT is set to work shall be carried out normal working mode during the test, and the maximum emanating results are recorded.

4.3.3.2. Configuration of test setup



4.3.4. Test specification:

Frequency range:	■ 80 MHz to 2700 MHz
Field strength:	■ 10 V/m
EUT - antenna separation:	■ 3 m
Modulation:	■ AM: 80 % ■ sinusoidal 1000Hz
Frequency step:	■ 1 % with 3 s dwell time
Antenna polarisation:	■ horizontal ■ vertical

4.3.5. Test result

The requirements are **Fulfilled** Performance Criterion: **A**

Remarks: During the test no deviation was detected to the selected operation mode(s).

4.4. Magnetic Field Immunity

For test instruments and accessories used see section 3.6.

4.4.1. Description of the test location

Test location: EMC Test Room

Date of test: Mar. 11, 2020

Operator: Li

4.4.2. Severity levels of magnetic field immunity

Level	Magnetic Field Strength (A/m)
1	1
2	3
3	10
4	30
5	100
X.	Special

4.4.3. Description of the test set-up

4.4.3.1. Operating Condition

The EUT is set to work shall be carried out normal working mode during the test, and the maximum emanating results are recorded.

4.4.4. Test specification:

Test frequency: ■ 50 Hz ■ 60Hz

Continuous field: ■ 30 A/m

Test duration: ■ 5 m

Antenna factor: 0.917 A/m

Axis: ■ x-axis ■ y-axis ■ z-axis

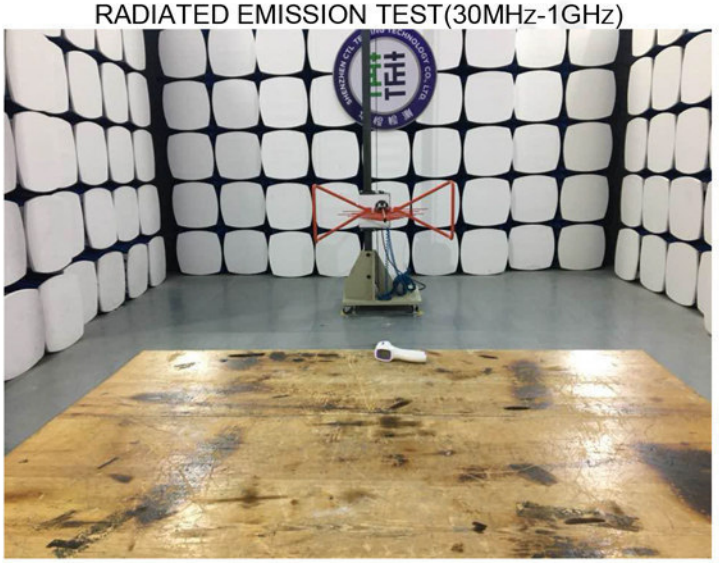
4.4.5. Test result

The requirements are **Fulfilled** Performance Criterion: **A**

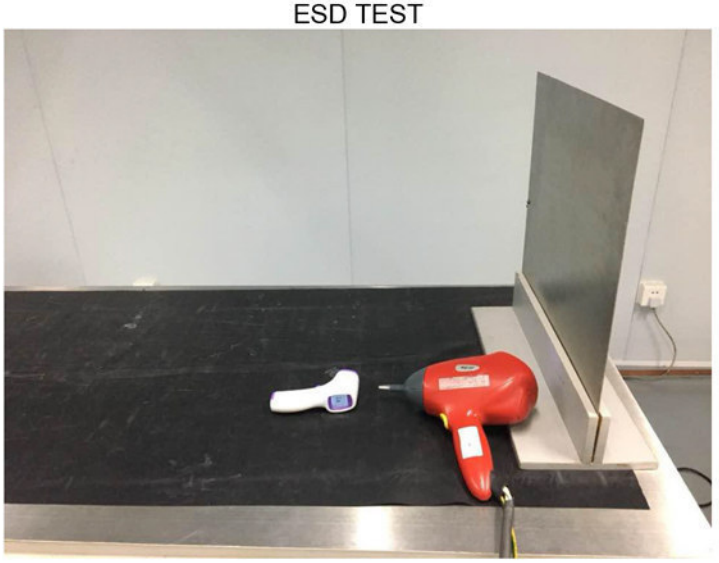
Remarks: During the test no deviation was detected to the selected operation mode(s).

5. Test Setup Photos

RADIATED EMISSION TEST(30MHz-1GHz)

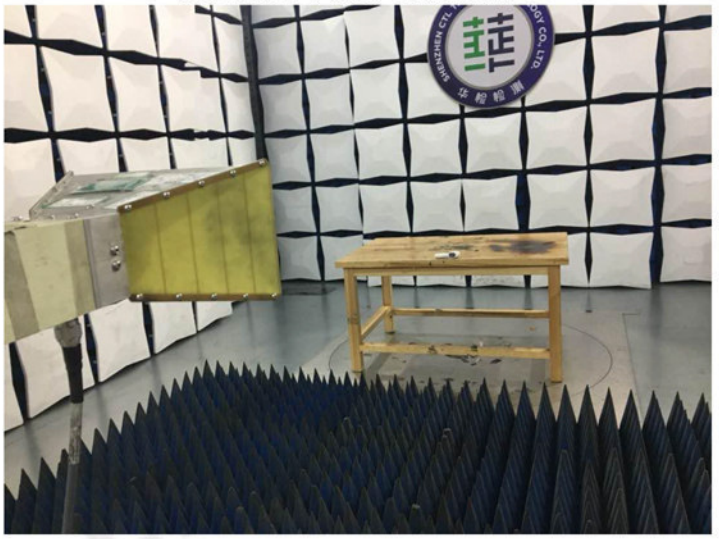


ESD TEST

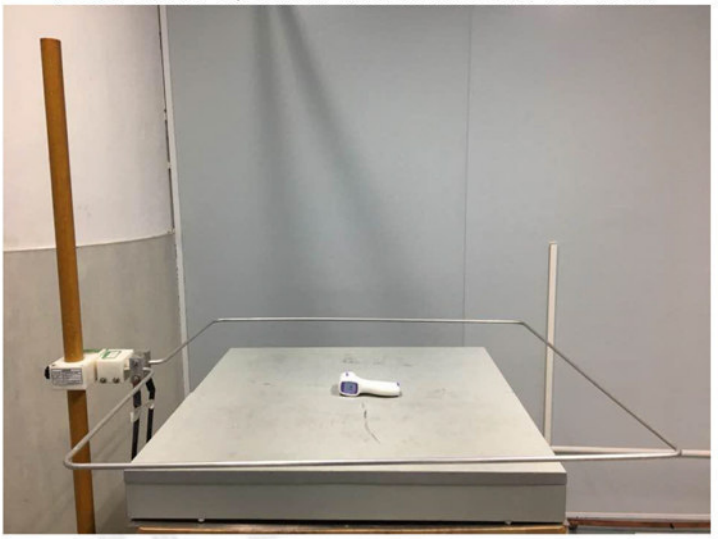


RS TEST（30-1000MHz）

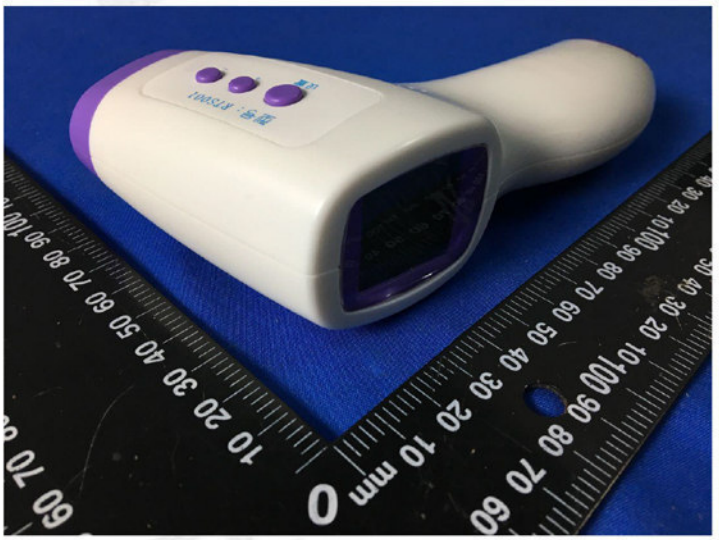
RS TEST（1000-2700MHz）

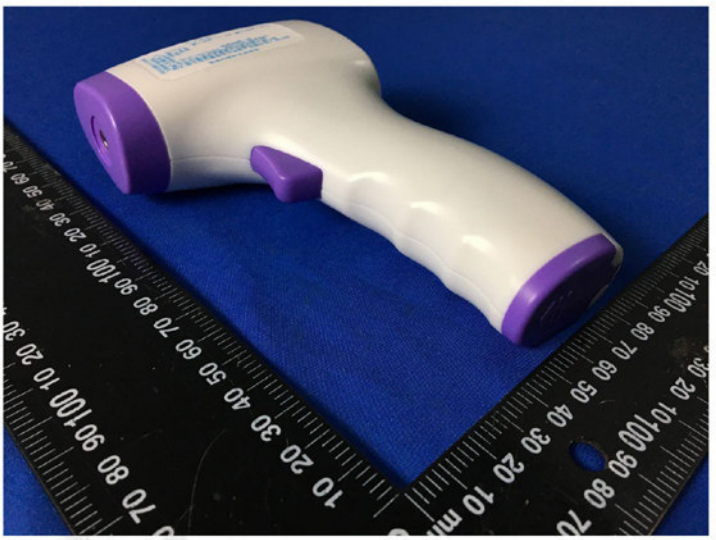


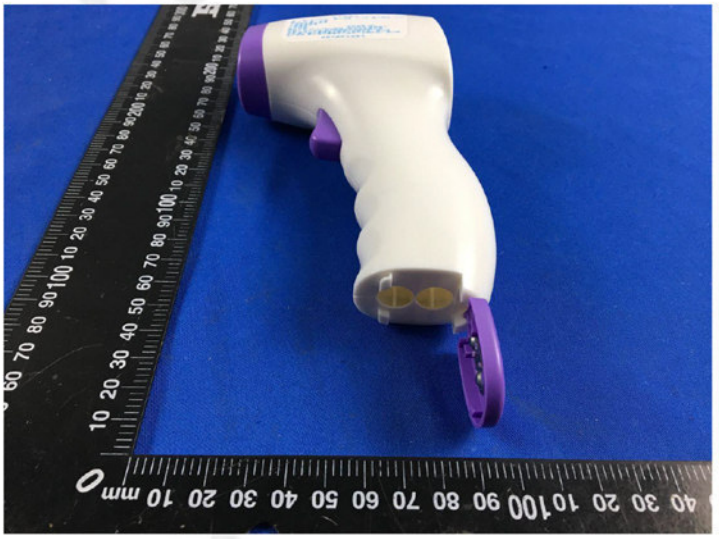
POWER-FREQUENCY MAGNETIC FIELDS TEST

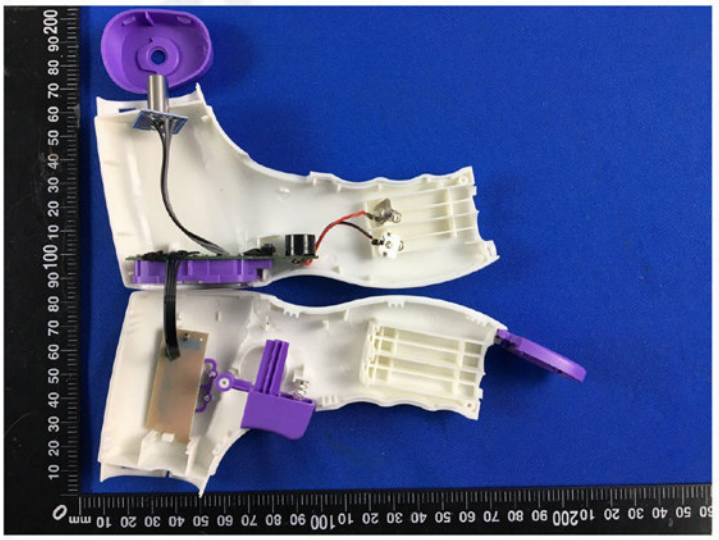


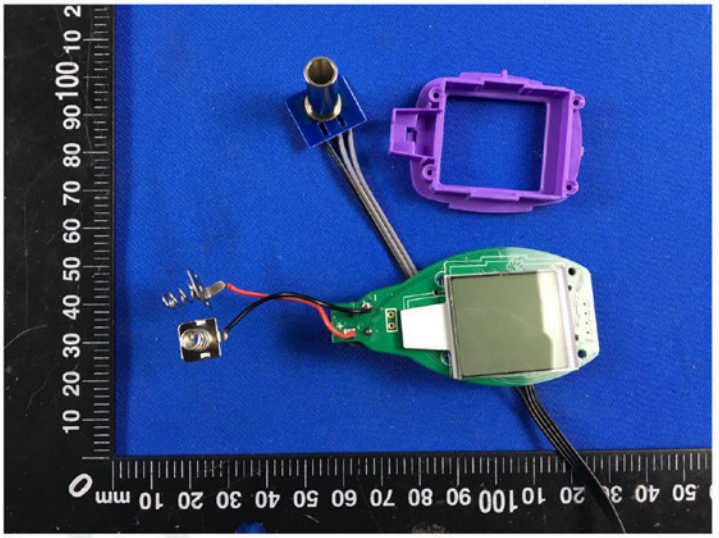
6. External and Internal Photos of the EUT

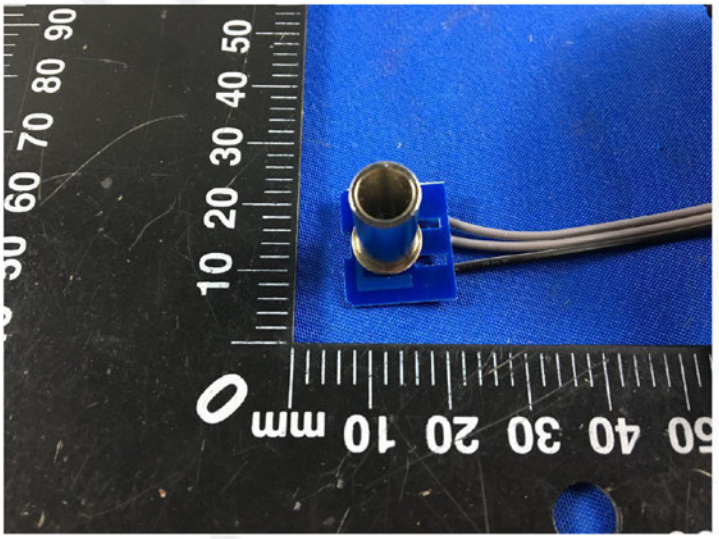


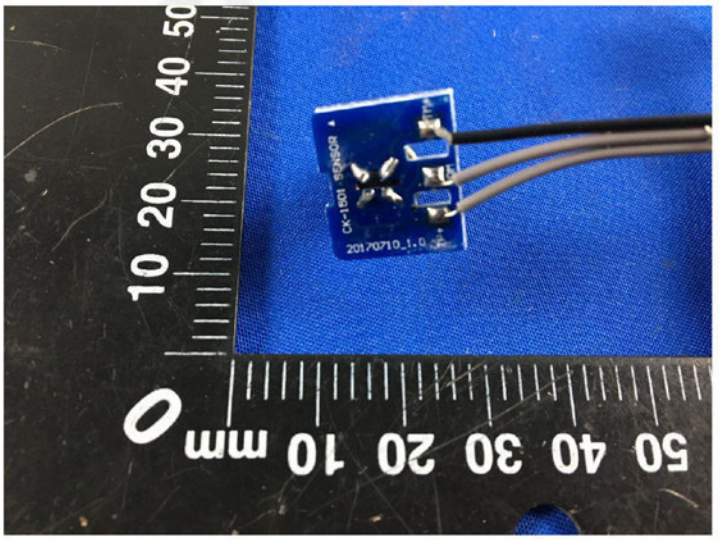








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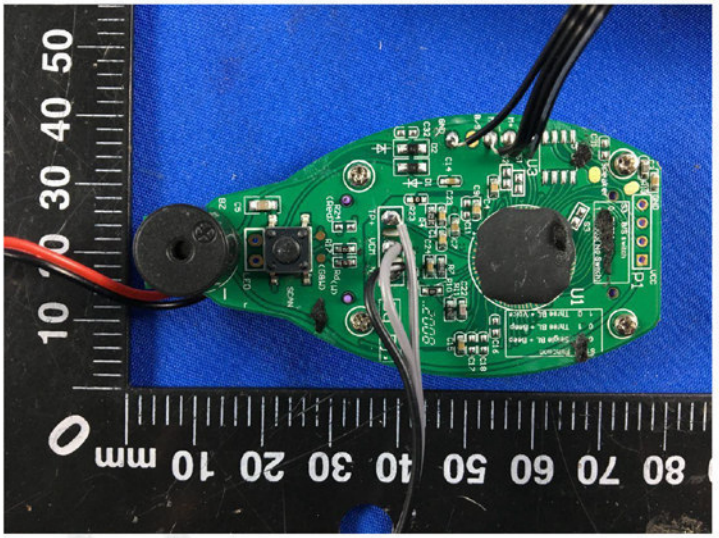

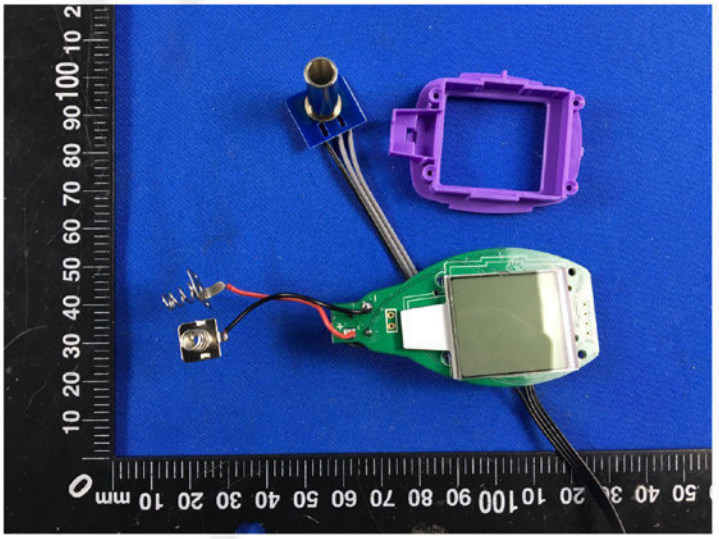

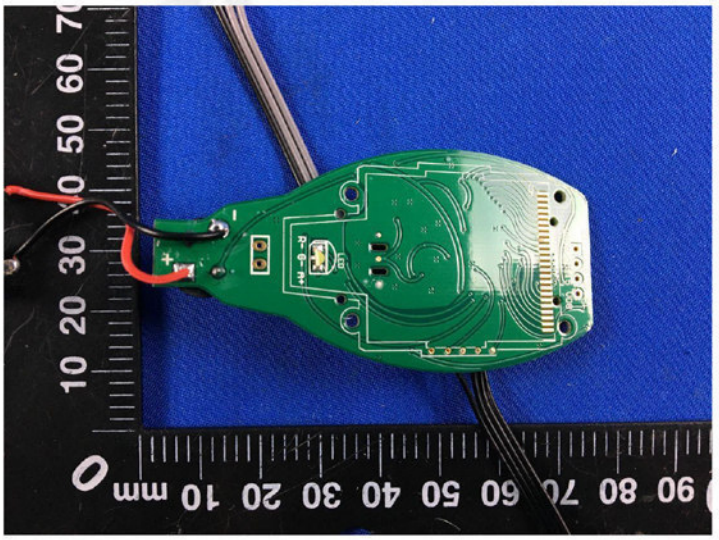

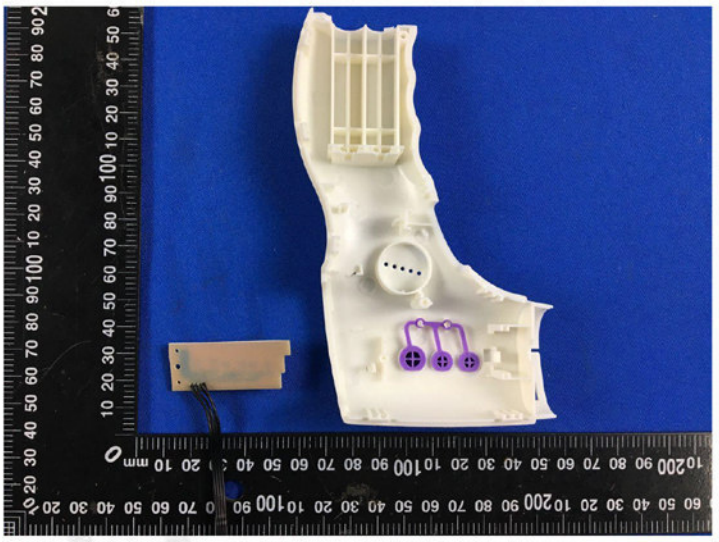

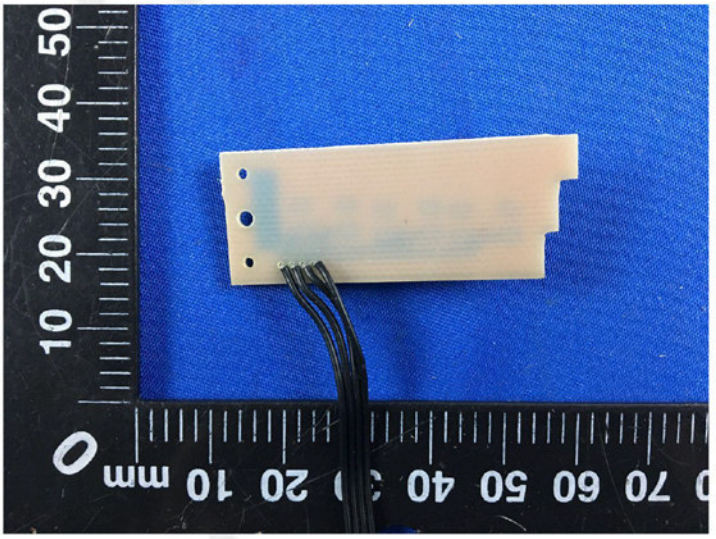

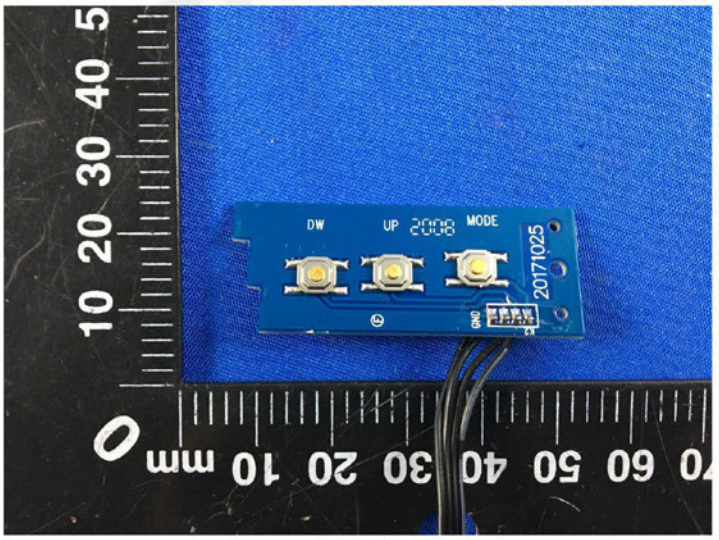

..... End Of Report.....