



Shenzhen CTL Testing Technology Co., Ltd.
Tel: +86-755-89486194 Fax: +86-755-26636041

TEST REPORT

FCC Part 22 Subpart H / Part 24 Subpart E

Report Reference No.: CTL1601180385-WF

Compiled by:
(position+printed name+signature)

Jacky Chen
(File administrators)

Jacky Chen

Tested by:
(position+printed name+signature)

Allen Wang
(Test Engineer)

Allen Wang

Approved by:
(position+printed name+signature)

Tracy Qi
(Manager)

Tracy Qi

Product Name.....: Wireless Infrared Scouting Camera

Model/Type reference: Codeblack(UM595-3G)

List Model(s).....: /

Trade Mark.....: UOVision

FCC ID.....: 2AC8CUM565-3G

Applicant's name: UOVision Technology (HONGKONG) Co., Ltd

Address of applicant: UNIT A3, 9/F SILVER INTERNATIONAL TOWER, 707-713
NATHAN ROAD, MONGKOK, KOWLOON, HONGKONG

Test Firm: Shenzhen CTL Testing Technology Co., Ltd.

Address of Test Firm: Floor 1-A, Baisha Technology Park, No.3011, Shaheixi Road,
Nanshan District, Shenzhen, China 518055

Test specification.....:

Standard.....: FCC CFR Title 47 Part 2, Part 22H and Part 24E
EIA/TIA 603-D: 2010
KDB 971168 D01

TRF Originator: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF: Dated 2011-01

Date of Receipt.....: Jan. 18, 2017

Date of Test Date.....: Jan. 27, 2017–Jan. 28, 2017

Data of Issue.....: Jan. 29, 2017

Result.....: Positive

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TEST REPORT

Test Report No. :	CTL1601180385-WF	Jan. 29, 2017
		Date of issue

Equipment under Test : Wireless Infrared Scouting Camera

Model /Type : Codeblack(UM595-3G)

Listed Models : /

Applicant : **UOVision Technology (HONGKONG) Co., Ltd**

Address : UNIT A3, 9/F SILVER INTERNATIONAL TOWER,
707-713 NATHAN ROAD, MONGKOK,
KOWLOON, HONGKONG

Manufacturer : **UOVision Technology (Shenzhen) Co., Ltd**

Address : 3rd Floor, East Wing, the 4th Building, ZhongGuan
HongHualing Industrial Zone, 1268# Liuxian BLVD,
Nanshan District, Shenzhen, CHN 518055

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified page 5.

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.

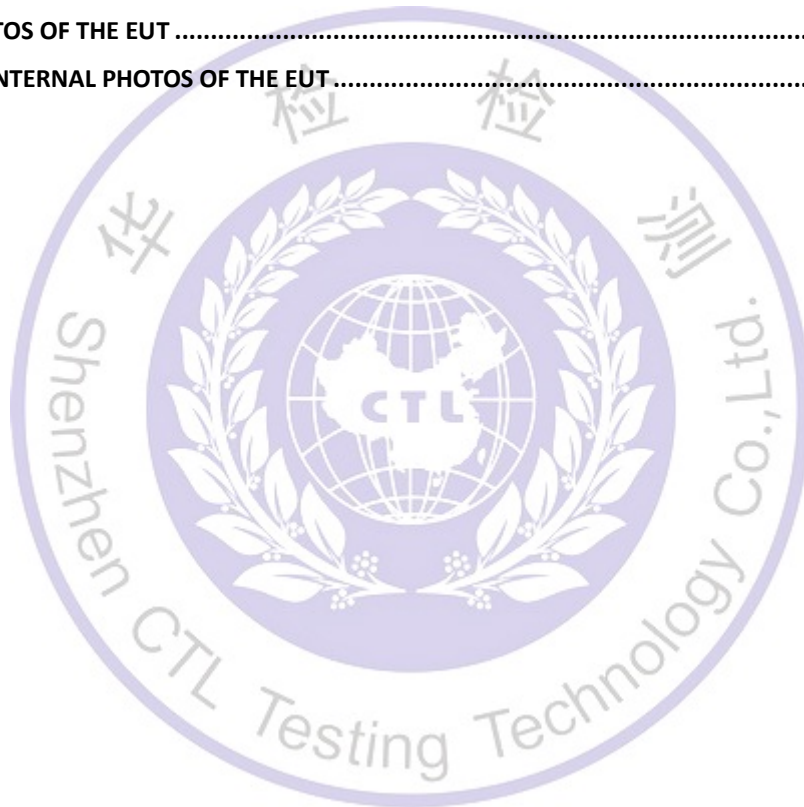
**** Modified History ****

Revisions	Description	Issued Data	Report No.	Remark
Version 1.0	Initial Test Report Release	2017-01-29	CTL1601180385-WF	Tracy Qi



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1 SUMMARY

1.1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Part 22](#): PRIVATE LAND MOBILE RADIO SERVICES.

[FCC Part 24](#): [PUBLIC](#) MOBILE SERVICES

[TIA/EIA 603 D June 2010](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[KDB971168 D01:v02r02](#) MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

[ANSI C63.10-2013](#) Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

1.2 Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c)	N/A _{Note1}
Peak-to-Average Ratio	Part 24.232 (d)	N/A _{Note1}
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238	N/A _{Note1}
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	N/A _{Note1}
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a)	N/A _{Note1}
Frequency stability	Part 2.1055 Part 22.355 Part 24.235	N/A _{Note1}

Note 1: This report includes the influenced item only for enclosure changed declared by the manufacture.

1.3 Test Facility

1.3.1 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

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

1.3.2 Laboratory accreditation

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

IC Registration No.: 9618B

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.: 9618B on November 13, 2013.

FCC-Registration No.: 970318

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 970318, December 19, 2013.

1.4 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	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

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

2 GENERAL INFORMATION

2.1 Environmental conditions

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

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 General Description of EUT

Product Name:	Wireless Infrared Scouting Camera
Model/Type reference:	Codeblack(UM595-3G)
Power supply:	DC 6.0V from battery
2G	
Operation Band:	GSM850, PCS1900
Supported Type:	GPRS, EGPRS
Power Class:	GSM850:Power Class 4 PCS1900:Power Class 1
Modulation Type:	GMSK for GPRS, 8-PSK for EGPRS
GSM Release Version	R99
GPRS Multislot Class	12
EGPRS Multislot Class	12
Antenna type:	External antenna
Antenna gain:	2dBi for GSM850 5dBi for PCS1900
WCDMA	
Operation Band:	FDD Band II, FDD Band V
Power Class:	Power Class 3
Modulation Type:	QPSK for HSUPA/HSDPA
WCDMA Release Version:	Rel-5
HSDPA Category:	Category 14
HSUPA Category:	Category 6
Antenna type:	External antenna
Antenna gain:	2dBi for Band V 5dBi for Band II

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

2.3 Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The CUM200 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Test Frequency:

GSM 850		PCS1900	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20
190	836.60	661	1880.00
251	848.80	810	1909.80

FDD Band II		FDD Band V	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
9262	1852.4	4132	826.40
9400	1880.0	4182	836.60
9538	1907.6	4233	846.60

Test Modes:

The test mode(s) are selected according to relevant radio technology specifications.

Test Mode	Test Modes Description
Mode 1	GSM system, GPRS, GMSK modulation
Mode 2	GSM system, EDGE, 8PSK modulation
Mode 3	HSDPA system, QPSK modulation
Mode 4	HSUPA system, QPSK modulation

Note:

1. As HSDPA and HSUPA with the same emission designator, test result recorded in this report at the worst case Mode 3 with RCM 12.2Kbps only after exploratory scan.

2.4 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2016/06/02	2017/06/01
Bilog Antenna	Sunol Sciences Corp.	JB1	A061714	2016/06/02	2017/06/01
EMI Test Receiver	R&S	ESCI	103710	2016/06/02	2017/06/01
Spectrum Analyzer	Agilent	N9020	US46220290	2016/1/17	2018/1/16
Controller	EM Electronics	Controller EM 1000	N/A	2016/05/21	2017/05/20
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2016/05/19	2017/05/18
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062014	2016/05/19	2017/05/18
Active Loop Antenna	SCHWARZBEC K	FMZB1519	1519-037	2016/05/19	2017/05/18
Amplifier	Agilent	8349B	3008A02306	2016/05/19	2017/05/18
Amplifier	Agilent	8447D	2944A10176	2016/05/19	2017/05/18
Temperature/Humidity Meter	Gangxing	CTH-608	02	2016/05/20	2017/05/19
Radio Communication Tester	R&S	CMU200	115419	2016/05/22	2017/05/21
High-Pass Filter	K&L	9SH10-2700/X1 2750-O/O	N/A	2016/05/20	2017/05/19
High-Pass Filter	K&L	41H10-1375/U1 2750-O/O	N/A	2016/05/20	2017/05/19
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	2016/06/02	2017/06/01
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	2016/06/02	2017/06/01
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	2016/06/02	2017/06/01
RF Cable	Megalon	RF-A303	N/A	2016/06/02	2017/06/01
Climate Chamber	ESPEC	EL-10KA	A20120523	2016/05/20	2017/05/19
SIGNAL GENERATOR	Agilent	E4421B	US40051744	2016/05/20	2017/05/19
Directional Coupler	Agilent	87300B	3116A03638	2016/05/20	2017/05/19

2.5 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AC8CUM565-3G filing to comply with of the FCC Part 22 and Part 24 Rules.

2.6 Modifications

No modifications were implemented to meet testing criteria.

3 TEST CONDITIONS AND RESULTS

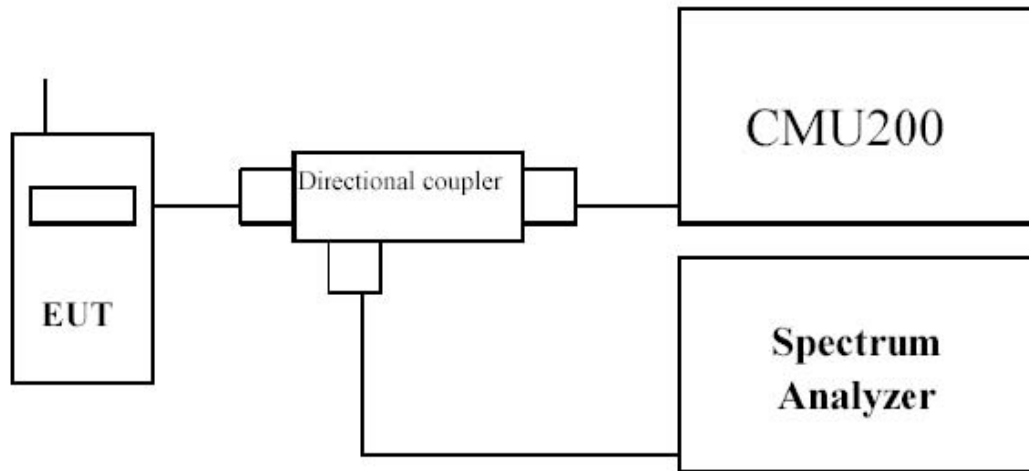
3.1 Spurious Emission

LIMIT

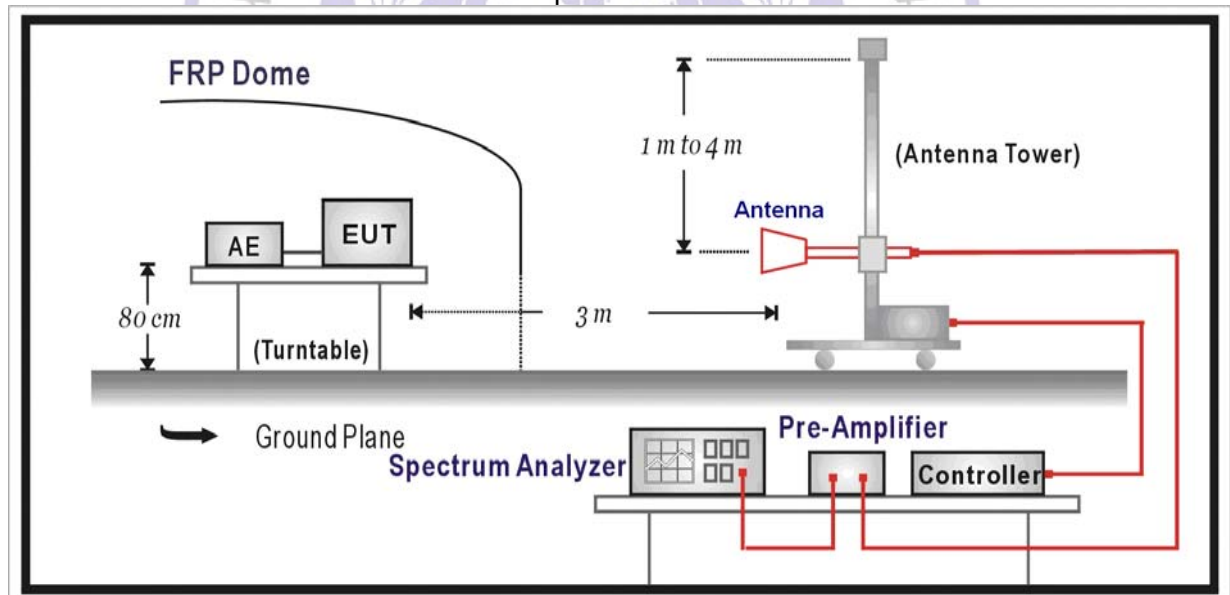
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Conducted Spurious Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- EUT Communicate with CMU200 then selects a channel for testing.

- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1MHz for Part 22 and 1MHz for Part 24, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- a) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c) The output of the test antenna shall be connected to the measuring receiver.
- d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h) The maximum signal level detected by the measuring receiver shall be noted.
- i) The transmitter shall be replaced by a substitution antenna.
- j) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k) The substitution antenna shall be connected to a calibrated signal generator.
- l) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q) The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.

TEST RESULTS**Radiated Measurement:****GPRS850**

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
128	1648.40	-54.10	3.00	3.00	9.58	-47.52	-13.00	34.52	H
	2472.60	-59.39	3.47	3.00	10.72	-52.14	-13.00	39.14	H
	1648.40	-55.24	3.00	3.00	9.68	-48.56	-13.00	35.56	V
	2472.60	-59.67	3.47	3.00	10.72	-52.42	-13.00	39.42	V
190	1673.20	-54.12	3.14	3.00	9.61	-47.65	-13.00	34.65	H
	2509.80	-62.44	3.59	3.00	10.77	-55.26	-13.00	42.26	H
	1673.20	-53.68	3.14	3.00	9.61	-47.21	-13.00	34.21	V
	2509.80	-59.59	3.59	3.00	10.77	-52.41	-13.00	39.41	V
251	1697.60	-56.14	3.26	3.00	9.77	-49.63	-13.00	36.63	H
	2546.40	-59.67	3.69	3.00	10.89	-52.47	-13.00	39.47	H
	1697.60	-54.73	3.26	3.00	9.77	-48.22	-13.00	35.22	V
	2546.40	-60.48	3.69	3.00	10.89	-53.28	-13.00	40.28	V

EGPRS850

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
128	1648.40	-55.14	3.00	3.00	9.58	-48.56	-13.00	35.56	H
	2472.60	-72.48	3.47	3.00	10.72	-65.23	-13.00	52.23	H
	1648.40	-53.20	3.00	3.00	9.68	-46.52	-13.00	33.52	V
	2472.60	-60.54	3.47	3.00	10.72	-53.29	-13.00	40.29	V
190	1673.20	-60.15	3.14	3.00	9.61	-53.68	-13.00	40.68	H
	2509.80	-61.81	3.59	3.00	10.77	-54.63	-13.00	41.63	H
	1673.20	-58.58	3.14	3.00	9.61	-52.11	-13.00	39.11	V
	2509.80	-61.55	3.59	3.00	10.77	-54.37	-13.00	41.37	V
251	1697.60	-60.74	3.26	3.00	9.77	-54.23	-13.00	41.23	H
	2546.40	-60.46	3.69	3.00	10.89	-53.26	-13.00	40.26	H
	1697.60	-61.38	3.26	3.00	9.77	-54.87	-13.00	41.87	V
	2546.40	-59.59	3.69	3.00	10.89	-52.39	-13.00	39.39	V

GPRS1900

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
512	3700.40	-61.31	4.25	3.00	12.34	-53.22	-13.00	40.22	H
	5550.60	-59.03	4.97	3.00	13.52	-50.48	-13.00	37.48	H
	3700.40	-59.41	4.25	3.00	12.34	-51.32	-13.00	38.32	V
	5550.60	-58.81	4.97	3.00	13.52	-50.26	-13.00	37.26	V
661	3760.00	-60.29	4.38	3.00	12.34	-52.33	-13.00	39.33	H
	5640.00	-58.97	5.01	3.00	13.58	-50.40	-13.00	37.40	H
	3760.00	-60.35	4.38	3.00	12.34	-52.39	-13.00	39.39	V
	5640.00	-57.82	5.01	3.00	13.58	-49.25	-13.00	36.25	V
810	3819.60	-59.24	4.49	3.00	12.45	-51.28	-13.00	38.28	H
	5729.40	-57.76	5.26	3.00	13.66	-49.36	-13.00	36.36	H
	3819.60	-60.62	4.49	3.00	12.45	-52.66	-13.00	39.66	V
	5729.40	-59.18	5.26	3.00	13.66	-50.78	-13.00	37.78	V

EGPRS1900

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
512	3700.40	-60.77	4.25	3.00	12.34	-52.68	-13.00	39.68	H
	5550.60	-57.96	4.97	3.00	13.52	-49.41	-13.00	36.41	H
	3700.40	-60.34	4.25	3.00	12.34	-52.25	-13.00	39.25	V
	5550.60	-59.24	4.97	3.00	13.52	-50.69	-13.00	37.69	V
661	3760.00	-59.84	4.38	3.00	12.34	-51.88	-13.00	38.88	H
	5640.00	-58.98	5.01	3.00	13.58	-50.41	-13.00	37.41	H
	3760.00	-60.19	4.38	3.00	12.34	-52.23	-13.00	39.23	V
	5640.00	-57.82	5.01	3.00	13.58	-49.25	-13.00	36.25	V
810	3819.60	-59.50	4.49	3.00	12.45	-51.54	-13.00	38.54	H
	5729.40	-57.54	5.26	3.00	13.66	-49.14	-13.00	36.14	H
	3819.60	-60.32	4.49	3.00	12.45	-52.36	-13.00	39.36	V
	5729.40	-57.65	5.26	3.00	13.66	-49.25	-13.00	36.25	V

WCDMA Band II

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
9262	3704.80	-58.31	4.27	3.00	12.34	-50.24	-13.00	37.24	H
	5557.20	-54.88	4.99	3.00	13.52	-46.35	-13.00	33.35	H
	3704.80	-58.93	4.27	3.00	12.34	-50.86	-13.00	37.86	V
	5557.20	-56.79	4.99	3.00	13.52	-48.26	-13.00	35.26	V
9400	3760.00	-57.28	4.38	3.00	12.34	-49.32	-13.00	36.32	H
	5640.00	-53.93	5.01	3.00	13.58	-45.36	-13.00	32.36	H
	3760.00	-56.74	4.38	3.00	12.34	-48.78	-13.00	35.78	V
	5640.00	-55.16	5.01	3.00	13.58	-46.59	-13.00	33.59	V
9538	3815.20	-55.33	4.47	3.00	12.45	-47.35	-13.00	34.35	H
	5722.80	-51.93	5.23	3.00	13.66	-43.50	-13.00	30.50	H
	3815.20	-54.96	4.47	3.00	12.45	-46.98	-13.00	33.98	V
	5722.80	-54.28	5.23	3.00	13.66	-45.85	-13.00	32.85	V

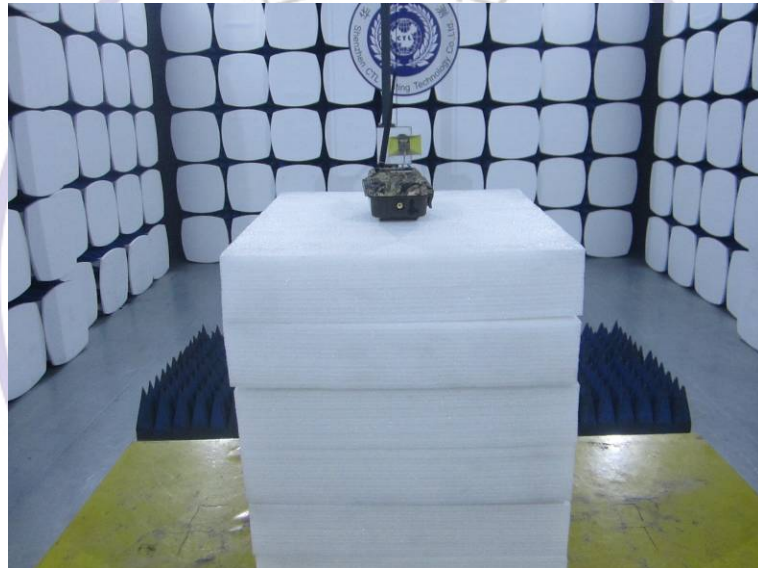
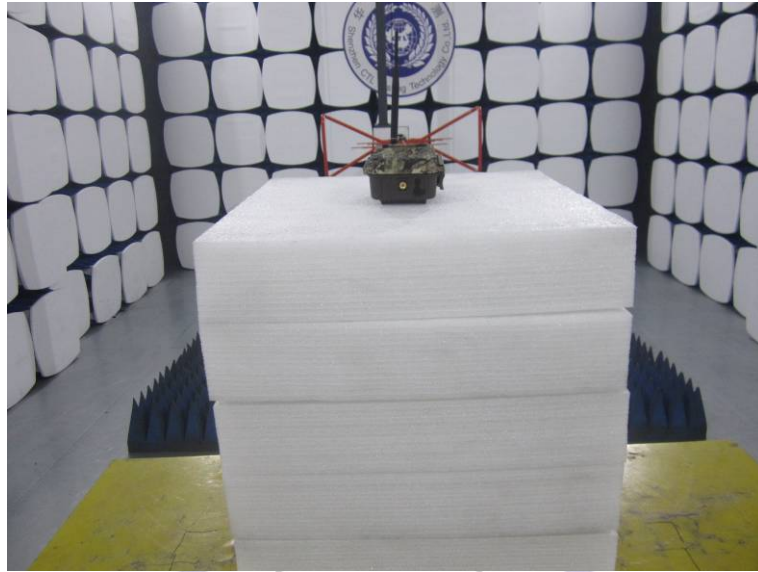
WCDMA Band V

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
9262	1652.80	-52.94	3.02	3.00	9.58	-46.38	-13.00	33.38	H
	2479.20	-50.90	3.51	3.00	10.72	-43.69	-13.00	30.69	H
	1652.80	-52.44	3.02	3.00	9.68	-45.78	-13.00	32.78	V
	2479.20	-44.10	3.51	3.00	10.72	-36.89	-13.00	23.89	V
9400	1673.20	-49.58	3.14	3.00	9.61	-43.11	-13.00	30.11	H
	2509.80	-48.05	3.59	3.00	10.77	-40.87	-13.00	27.87	H
	1673.20	-47.99	3.14	3.00	9.61	-41.52	-13.00	28.52	V
	2509.80	-38.73	3.59	3.00	10.77	-31.55	-13.00	18.55	V
9538	1693.20	-44.41	3.24	3.00	9.77	-37.88	-13.00	24.88	H
	2539.80	-48.08	3.65	3.00	10.89	-40.84	-13.00	27.84	H
	1693.20	-42.84	3.24	3.00	9.77	-36.31	-13.00	23.31	V
	2539.80	-42.13	3.65	3.00	10.89	-34.89	-13.00	21.89	V

Remark:

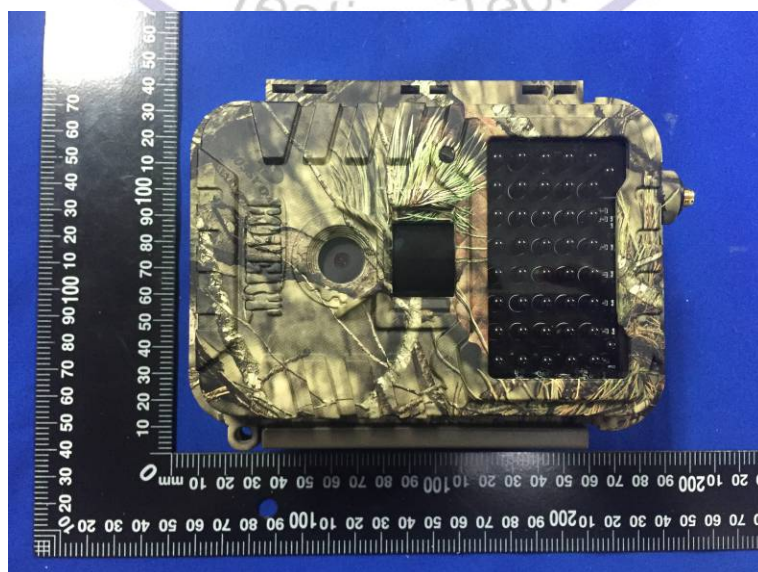
1. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
2. We were not recorded other points as values lower than limits.
3. $Margin = Limit - EIRP$

4 Test Setup Photos of the EUT



5 External and Internal Photos of the EUT

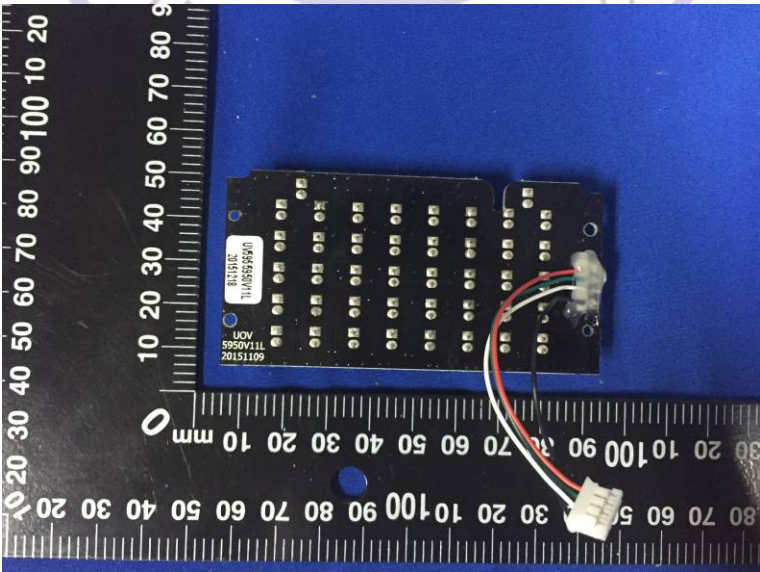
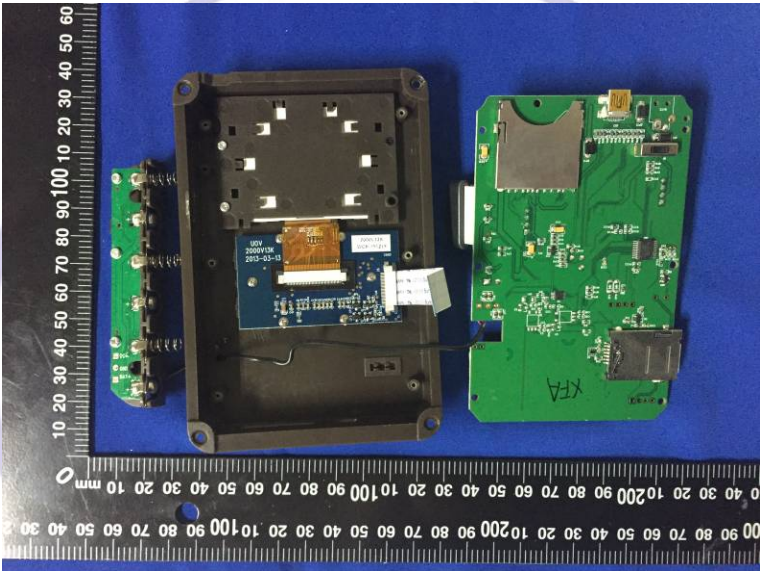
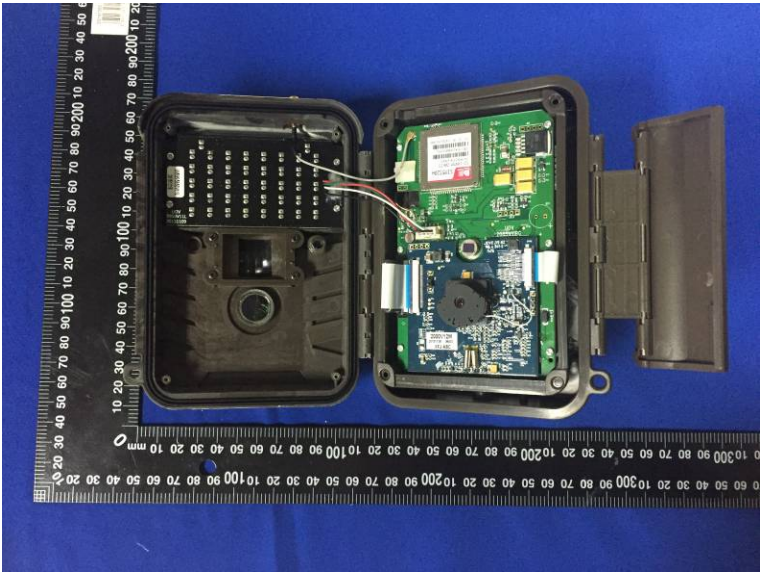
External Photos of EUT

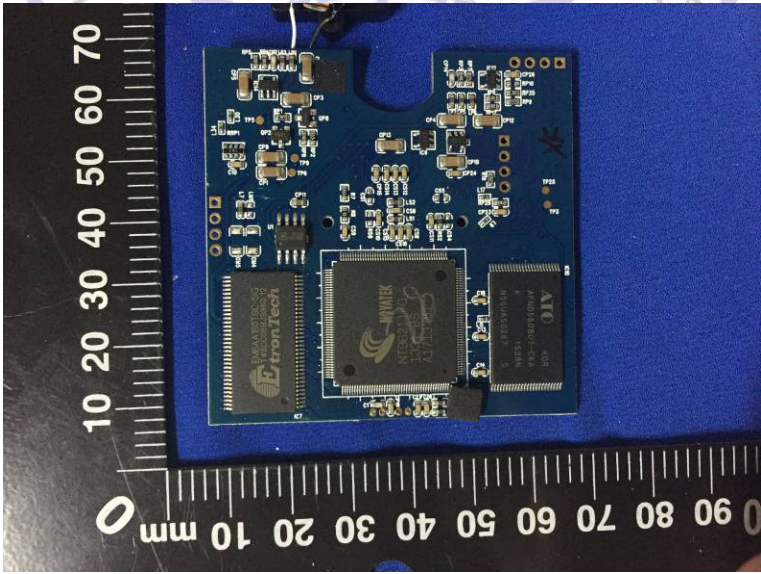
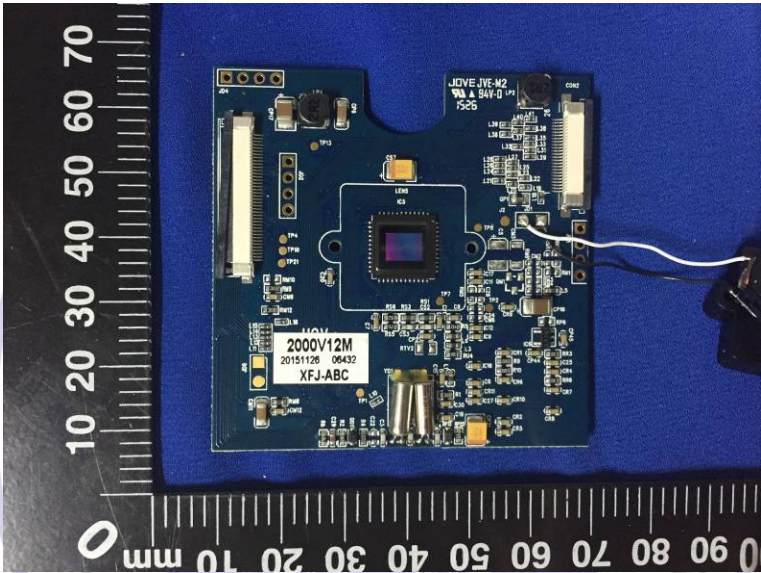
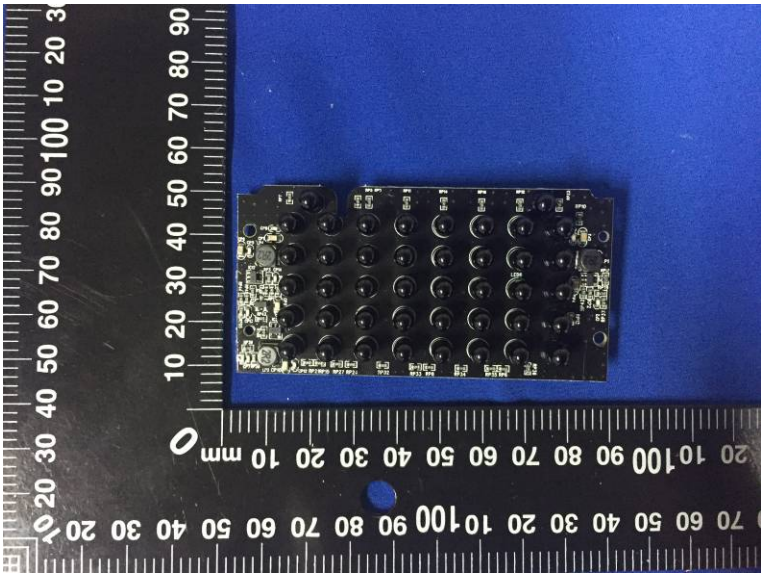


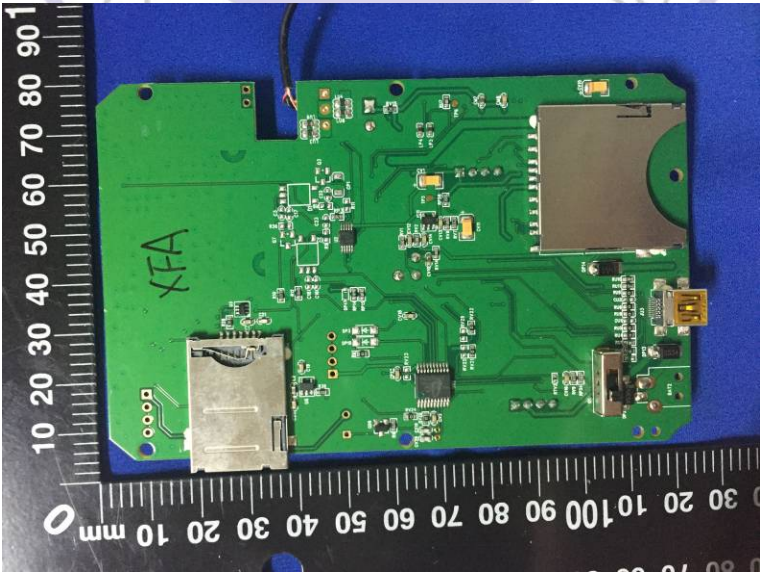
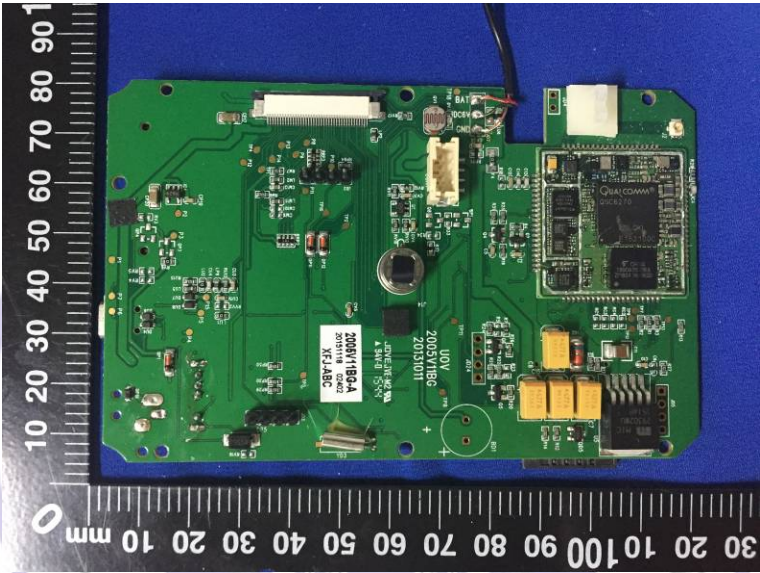
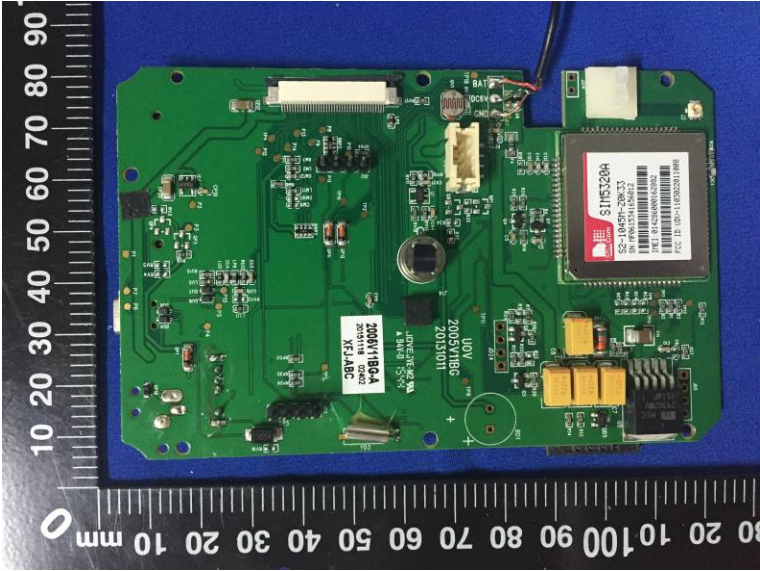


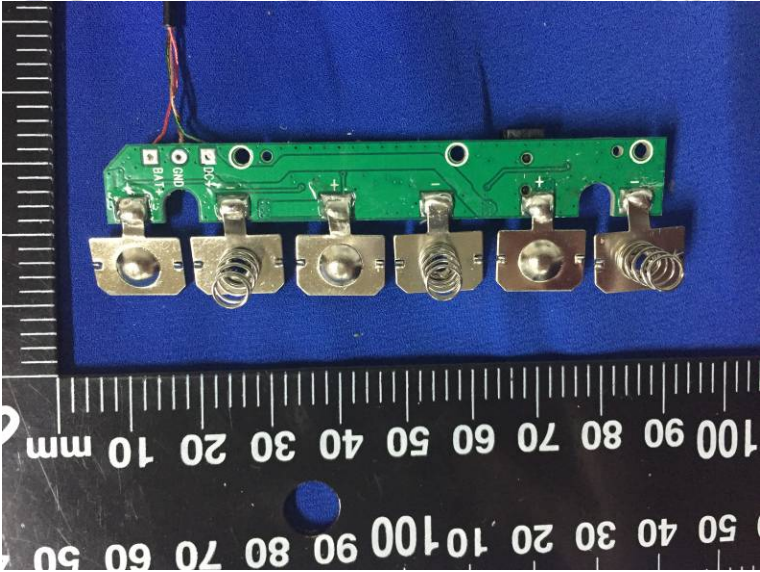
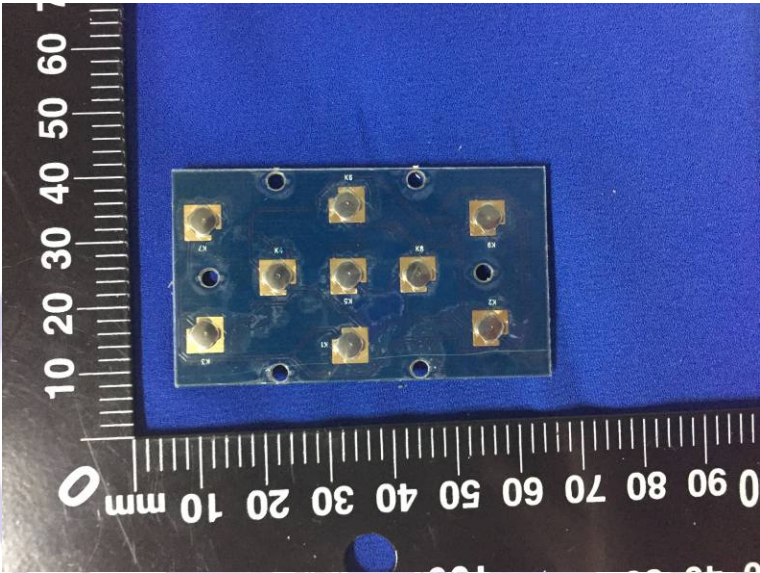
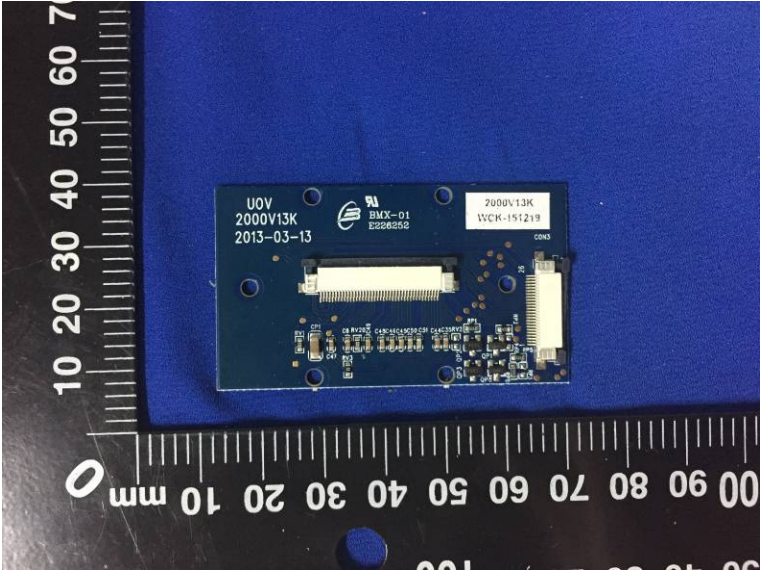


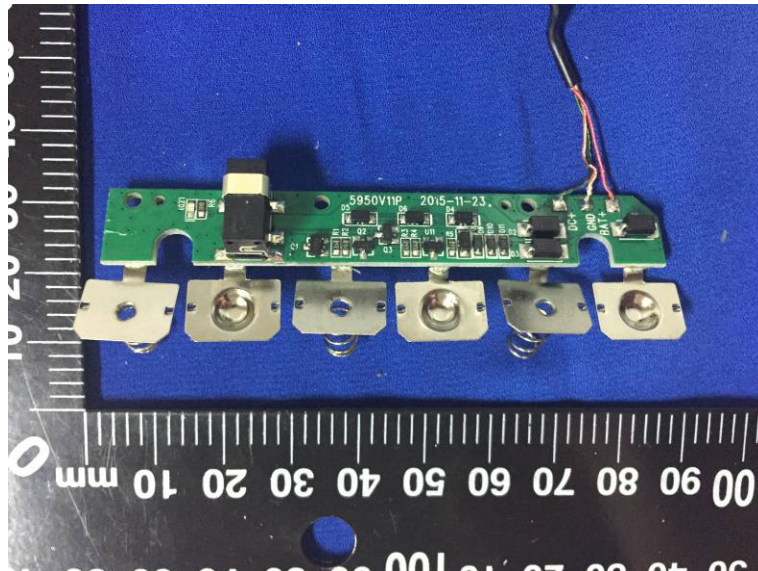
Internal Photos of EUT











***** End of Report *****

