

# **FCC Test Report**

Report No.: AGC00008190403FE01

TW5GD7006

PRODUCT DESIGNATION Four-Channel Wireless Digital Surverillance System

N/A **BRAND NAME** 

**MODEL NAME** GD7006

CLIENT Shenzhen Gospell Smarthome Electronic Co., Ltd.

**DATE OF ISSUE** May 10, 2019

STANDARD(S) FCC Part 15 Subpart B

REPORT VERSION

# Attestation of Global Compliance (Shenzhen) Co., Ltd

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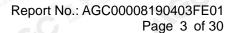
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#### REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date  | Valid Version | Notes           |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0           | 10          | May 10, 2019 | Valid         | Initial release |

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#### 1. VERIFICATION OF CONFORMITY

| WO.                      |   |  |  |  |
|--------------------------|---|--|--|--|
| Applicant                | Shenzhen Gospell Smarthome Electronic Co., Ltd.   |  |  |  |
| Address                  | East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China |  |  |  |
| Manufacturer             | Shenzhen Gospell Smarthome Electronic Co., Ltd.   |  |  |  |
| Address                  | East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China |  |  |  |
| Factory                  | Shenzhen Gospell Smarthome Electronic Co., Ltd.   |  |  |  |
| Address                  | East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China |  |  |  |
| Product Designation      | Four-Channel Wireless Digital Surverillance System  |  |  |  |
| Brand Name               | N/A   |  |  |  |
| Test Model               | GD7006  |  |  |  |
| Measurement Procedure    | ANSI C63.4: 2014  |  |  |  |
| Date of test             | Apr. 30, 2019 to May 10, 2019   |  |  |  |
| Deviation                | None  |  |  |  |
| Condition of Test Sample | Normal  |  |  |  |
| Test Result              | Pass @ ###  |  |  |  |
| Report Template          | AGCRT-US-IT/AC  |  |  |  |
| 4 832 000 3383 200       | 100   |  |  |  |

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. For compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested By

Draven Li(Li Ming Liang)

May 10, 2019

Max Zhang

Max Zhang(Zhang Yi)

May 10, 2019

Approved By

Forrest Lei(Lei Yonggang)
Authorized Officer

May 10, 2019

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## 2. SYSTEM DESCRIPTION

|         | TEST MODE DESCRIPTION          |  |
|---------|--------------------------------|--|
| NO.     | TEST MODE DESCRIPTION          | WORST  |
| 1 8     | Data Communication by LAN port | V  |
| Note:1. | V means EMI worst mode.        | The state of the s |

#### 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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# 4. PRODUCT INFORMATION

| Housing Type     | Plastic and metal  |
|------------------|--|
| Hardware Version | V172P1   |
| Software Version | V1.0   |
| Power Supply     | DC 5V by adapter   |
| Adapter          | and the second s |
| Model name       | KT241050300US  |
| Input Rating     | AC100-240V, 50-60HZ, 0.8A  |

I/O Port Information (⊠Applicable □Not Applicable)

|            |               |                  | I/O Port of El | JT       | Ver          | ************************************** |
|------------|---------------|------------------|----------------|----------|--------------|--|
|            | I/O Port Type |                  | Number         | Specific |              | Tested With                            |
| Compliance | DC In         | 3) Altestation A |                | N/A      |              | 1                                      |
| -G         | LAN           |                  | 1              | N/A      | The Williams | 1 The Colored Co                       |

#### Note:

Output Rating

1. All the above "--" means that EUT has no cable.

DC5V, 3A

2. All the cables were provided by AGC Lab.

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# 5. SUPPORT EQUIPMENT

| Item     | Equipment | Model No. | ID or Specification | Remark  |
|----------|-----------|-----------|---------------------|---------|
| A TOPH 1 | SC C      | -C        | Pa- Pac             | NG WELL |

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# 6. TEST FACILITY

|   | Mr.       |  |
|---|-----------|--|
|   | Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd   |
| Ş | Location  | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |

#### **TEST EQUIPMENT OF CONDUCTED EMISSION TEST**

| Equipment     | Manufacturer | Model   | S/N    | Cal. Date    | Cal. Due     |
|---------------|--------------|---------|--------|--------------|--------------|
| TEST RECEIVER | R&S          | ESPI    | 101206 | Jun.12, 2018 | Jun.11, 2019 |
| LISN          | R&S          | ESH2-Z5 | 100086 | Jun.12, 2018 | Jun.11, 2019 |

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment                       | Manufacturer | Model       | S/N        | Cal. Date    | Cal. Due     |
|---------------------------------|--------------|-------------|------------|--------------|--------------|
| TEST RECEIVER                   | R&S          | ESCI        | 10096      | Jun.12, 2018 | Jun.11, 2019 |
| EXA Signal<br>Analyzer          | Aglient      | N9010A      | MY53470504 | Dec.07, 2018 | Dec.08, 2019 |
| Horn antenna                    | SCHWARZBECK  | BBHA 9170   | #768       | May.18, 2018 | May.17, 2019 |
| preamplifier                    | ChengYi      | EMC184045SE | 980508     | May.18, 2018 | May.17, 2019 |
| Double-Ridged<br>Waveguide Horn | ETS LINDGREN | 3117        | 00034609   | May.18, 2018 | May.17, 2019 |
| Broadband<br>Preamplifier       | SCHWARZBECK  | BBV 9718    | 9718-205   | Jun.12, 2018 | Jun.11, 2019 |
| ANTENNA                         | SCHWARZBECK  | VULB9168    | D69250     | May.18, 2018 | May.17, 2019 |

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# 7. TEST ITEMS AND THE RESULTS

| Test item             | Test Requirement  | Test Method | Class/Severity | Result |
|-----------------------|-------------------|-------------|----------------|--------|
| CONDUCTED<br>EMISSION | FCC Part 15 Rules | ANSI C63.4  | Class B        | Pass   |
| RADIATED<br>EMISSION  | FCC Part 15 Rules | ANSI C63.4  | Class B        | Pass   |

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## 8. LINE CONDUCTED EMISSION TEST

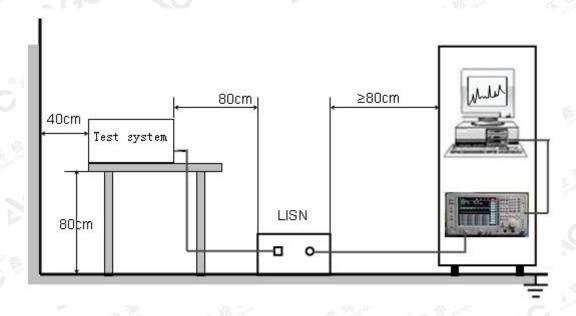
#### 8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| F             | Maximum RF Line Voltage |                |  |  |  |
|---------------|-------------------------|----------------|--|--|--|
| Frequency     | Q.P.( dBuV)             | Average( dBuV) |  |  |  |
| 150kHz-500kHz | 66-56                   | 56-46          |  |  |  |
| 500kHz-5MHz   | 56                      | 46             |  |  |  |
| 5MHz-30MHz    | 60                      | 50             |  |  |  |

#### Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

#### 8.2. BLOCK DIAGRAM OF TEST SETUP



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#### 8.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

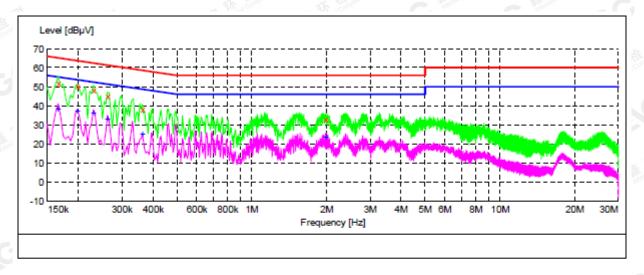
- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- (5) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

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#### 8.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### Line Conducted Emission Test Line 1-L



#### MEASUREMENT RESULT: "TEST fin"

| Frequency<br>MHz     | Level<br>dBµV  | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line     | PE         |
|----------------------|----------------|--------------|---------------|--------------|----------|----------|------------|
| 0.166000<br>0.198000 | 52.00<br>50.20 | 10.3         | 65<br>64      | 13.2<br>13.5 | QP<br>QP | L1<br>L1 | FLO<br>FLO |
| 0.230000             | 48.10          | 10.3         | 62            | 14.3         | QP       | L1       | FLO        |
| 0.262000             | 45.30          | 10.2         | 61            | 16.1         | QP       | L1       | FLO        |
| 0.362000             | 38.40          | 10.3         | 59            | 20.3         | QP       | L1       | FLO        |
| 1.986000             | 33.00          | 10.4         | 56            | 23.0         | QP       | L1       | FLO        |

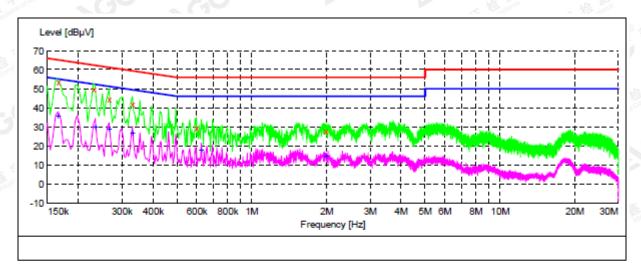
#### MEASUREMENT RESULT: "TEST fin2"

| Frequency<br>MHz     | Level<br>dBµV  | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line     | PE         |
|----------------------|----------------|--------------|---------------|--------------|----------|----------|------------|
| 0.166000<br>0.198000 | 38.60<br>37.30 | 10.3         | 55<br>54      | 16.6<br>16.4 | AV<br>AV | L1<br>L1 | FLO<br>FLO |
| 0.230000             | 36.20          | 10.3         | 52            | 16.2         | AV       | L1       | FLO        |
| 0.262000             | 33.30          | 10.2         | 51            | 18.1         | AV       | L1       | FLO        |
| 0.362000             | 25.20          | 10.3         | 49            | 23.5         | AV       | L1       | FLO        |
| 1.986000             | 23.60          | 10.4         | 46            | 22.4         | AV       | L1       | FLO        |

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#### Line Conducted Emission Test Line 2-N



#### MEASUREMENT RESULT: "TEST fin"

| Frequency<br>MHz     | Level<br>dBµV  | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line   | PE         |
|----------------------|----------------|--------------|---------------|--------------|----------|--------|------------|
| 0.166000<br>0.230000 | 53.50<br>49.80 | 10.3         | 65<br>62      | 11.7<br>12.6 | QP<br>OP | N<br>N | FLO<br>FLO |
| 0.266000             | 44.70          | 10.3         | 61            | 16.5         | QP       | N      | FLO        |
| 0.330000             | 42.30          | 10.2         | 60            | 17.2         | QP       | N      | FLO        |
| 0.598000             | 29.60          | 10.3         | 56            | 26.4         | QP       | N      | FLO        |
| 1.986000             | 28.00          | 10.4         | 56            | 28.0         | QP       | N      | FLO        |

#### MEASUREMENT RESULT: "TEST\_fin2"

| Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.166000         | 35.70         | 10.3         | 55            | 19.5         | AV       | N    | FLO |
| 0.234000         | 29.80         | 10.3         | 52            | 22.5         | AV       | N    | FLO |
| 0.266000         | 29.10         | 10.2         | 51            | 22.1         | AV       | N    | FLO |
| 0.330000         | 26.90         | 10.2         | 50            | 22.6         | AV       | N    | FLO |
| 0.330000         | 20.50         | 10.2         | 50            | 22.0         | AV       | 14   | PLO |
| 0.626000         | 17.60         | 10.3         | 46            | 28.4         | AV       | N    | FLO |
| 1.986000         | 14.50         | 10.4         | 46            | 31.5         | AV       | N    | FLO |

RESULT PASS

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## 9. RADIATED EMISSION TEST

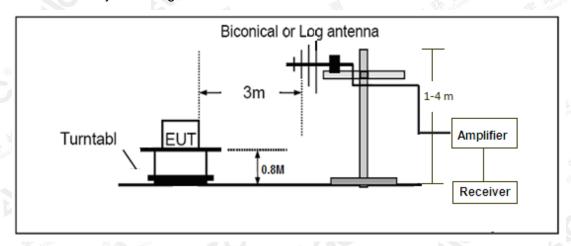
#### 9.1. LIMITS OF RADIATED EMISSION TEST

| Frequency<br>(MHz) | Distance (m)                              | Maximum Field Strength Limit (dBuV/m/ Q.P.) |
|--------------------|---|---|
| 30~88              | 3   | 40.0  |
| 88~216             | 3 A 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 43.5  |
| 216~960            | 3   | 46.0  |
| Above 960          | 3   | 54.0  |

Note: The lower limit shall apply at the transition frequency.

# 9.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



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#### 9.3. PROCEDURE OF RADIATED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) All support equipments received AC120V/60Hz power from socket under the turntable, if any.
- (5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

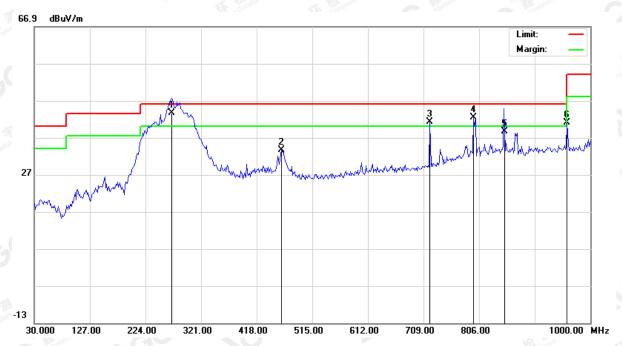
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# 9.4. TEST RESULT OF RADIATED EMISSION TEST

#### Radiated Emission below 1GHz Test at 3m Distance-Horizontal



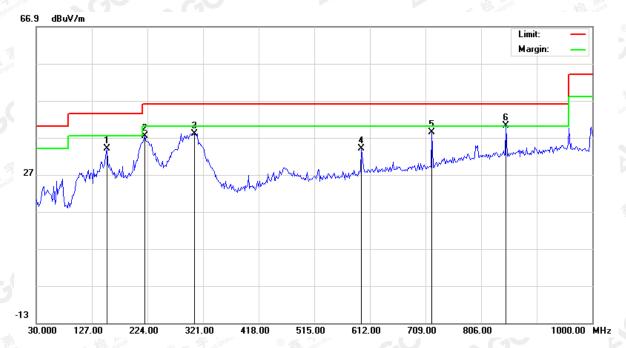
| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | •  | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   | *  | 269.2667 | 24.57   | 19.07  | 43.64       | 46.00  | -2.36  | QP       |                   |                 |         |
| 2   |    | 461.6500 | 9.41    | 24.22  | 33.63       | 46.00  | -12.37 | peak     |                   |                 |         |
| 3   | İ  | 720.3167 | 12.59   | 28.61  | 41.20       | 46.00  | -4.80  | peak     |                   |                 |         |
| 4   | į. | 796.3000 | 12.00   | 30.33  | 42.33       | 46.00  | -3.67  | peak     |                   |                 |         |
| 5   |    | 849.9935 | 7.56    | 31.05  | 38.61       | 46.00  | -7.39  | QP       |                   | ·               |         |
| 6   | į  | 959.5833 | 8.84    | 32.21  | 41.05       | 46.00  | -4.95  | peak     |                   |                 |         |

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#### Radiated Emission below 1GHz Test at 3m Distance-Vertical



| No | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|    | •  | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1  |    | 152.8667 | 14.87   | 19.20  | 34.07       | 43.50  | -9.43  | peak     |                   |                 |         |
| 2  |    | 219.1500 | 20.30   | 17.19  | 37.49       | 46.00  | -8.51  | peak     |                   |                 |         |
| 3  |    | 306.4500 | 18.34   | 19.70  | 38.04       | 46.00  | -7.96  | peak     |                   |                 |         |
| 4  |    | 597.4500 | 7.06    | 26.90  | 33.96       | 46.00  | -12.04 | peak     |                   |                 |         |
| 5  |    | 720.3167 | 9.70    | 28.61  | 38.31       | 46.00  | -7.69  | peak     |                   |                 |         |
| 6  | *  | 849.6500 | 9.20    | 31.05  | 40.25       | 46.00  | -5.75  | peak     |                   |                 |         |

#### **RESULT: PASS**

Note:

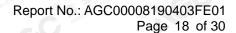
Level(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Margin=Level-Limit

Remark: which above 1GHz are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

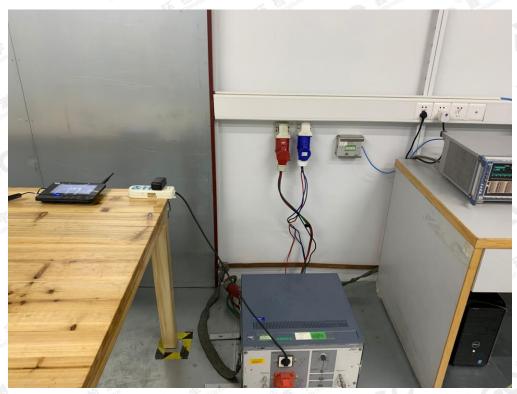
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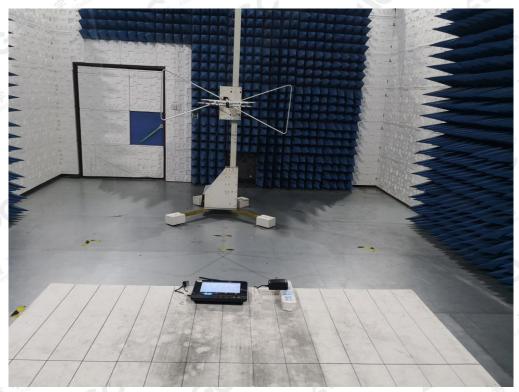


# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

#### FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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# APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



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#### **BOTTOM VIEW OF EUT**



FRONT VIEW OF EUT

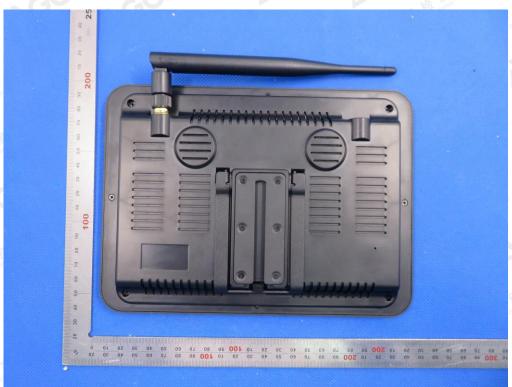


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#### **BACK VIEW OF EUT**



LEFT VIEW OF EUT



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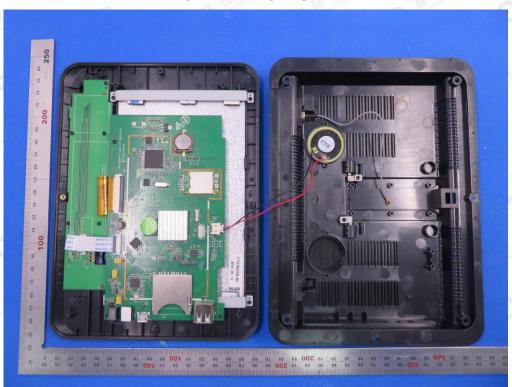
**IGC** 8



#### RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1



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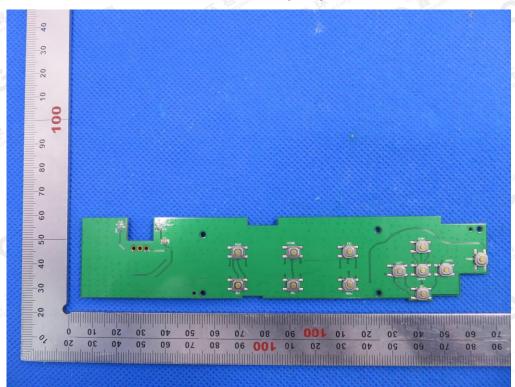
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#### **OPEN VIEW OF EUT-2**



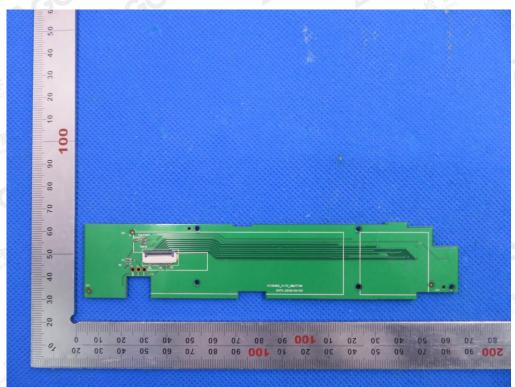
**INTERNAL VIEW OF EUT-1** 



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**INTERNAL VIEW OF EUT-3** 



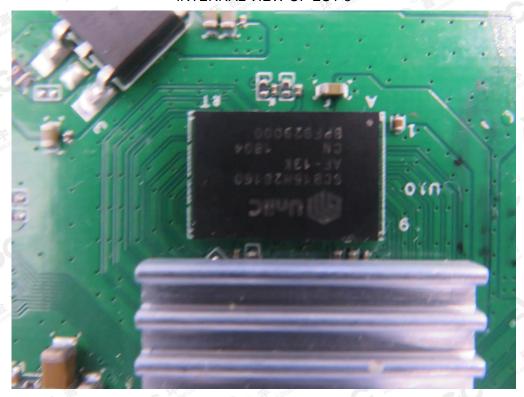
The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ACC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

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**INTERNAL VIEW OF EUT-5** 



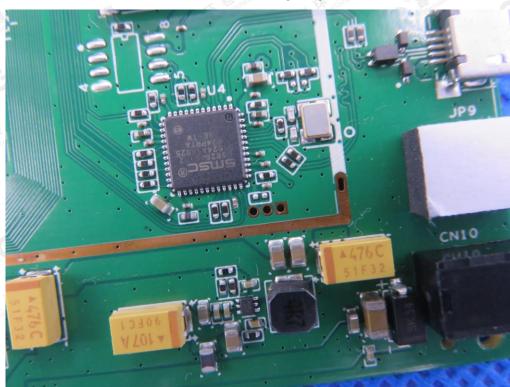
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 1000, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at alther. I www.agc. gett.com.

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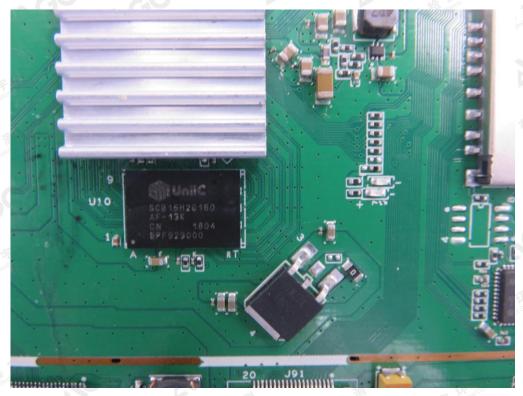
**INTERNAL VIEW OF EUT-7** 



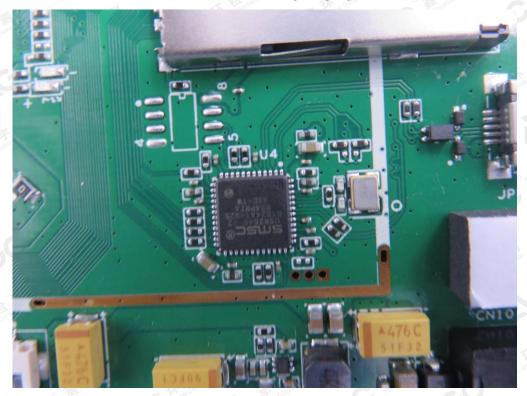
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a titp://www.agc.geat.com.

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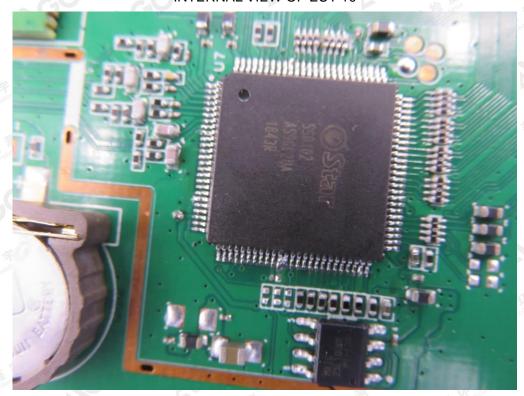
**INTERNAL VIEW OF EUT-9** 



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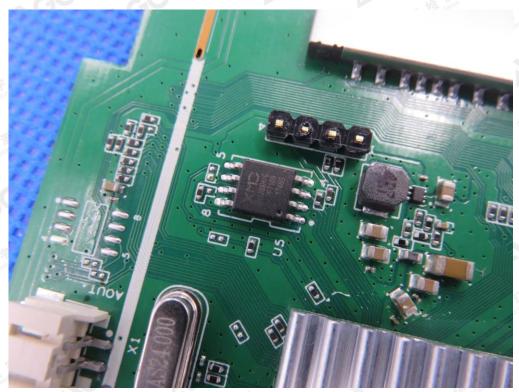
**INTERNAL VIEW OF EUT-11** 



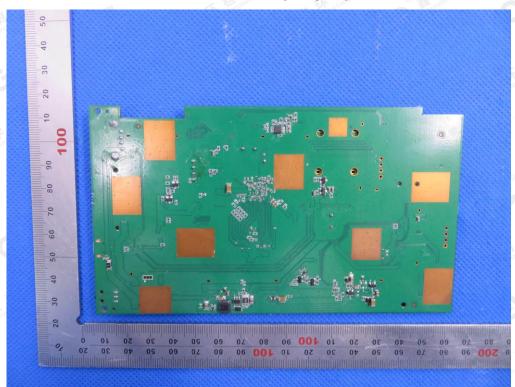
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**INTERNAL VIEW OF EUT-13** 



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#### VIEW OF ANTENNA CONNECTOR



----END OF REPORT----

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