FCC Test Report

Report No.: AGC00688141001FE02

FCC ID : UOS-AM83Z

APPLICATION PURPOSE : Class II Permissive Change

PRODUCT DESIGNATION: mobile phone

BRAND NAME : AMGOO

MODEL NAME : AM103

CLIENT : Amgoo Telecom(Shenzhen) Co., Ltd.

DATE OF ISSUE : Oct.16, 2014

STANDARD(S) : FCC Part 22H & 24E Rules

REPORT VERSION: V1.0

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

CAUTION:

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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|----------------------------|
| V1.0 | 1 | Oct.16, 2014 | Valid | Class II Permissive Change |

DESCRIPTION

In this report, only changed the appearance and the GSM antenna. The information of test results is almost identical to the report number - AGC00850140601FE02, which was named AM83Z; All the test cases can be referred to the original test report. Based on the report, only the ERP/EIRP and the worst cases of Radiated Spurious Emission were verified for the differences.

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VERIFICATION OF COMPLIANCE

| Applicant | Amgoo Telecom(Shenzhen) Co., Ltd. |
|--|--|
| Address | 3/F, Block R2-A(North), Gaoxin S. Ave. 4th, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China |
| Manufacturer | Amgoo Telecom(Shenzhen) Co., Ltd. |
| Address 3/F, Block R2-A(North), Gaoxin S. Ave. 4th, Hi-Tech Industrial Park, Nansha District, Shenzhen, China | |
| Product Designation | mobile phone |
| Brand name | AMGOO |
| Test Model | AM103 |
| Date of Test | Oct.13, 2014 to Oct,15, 2014 |
| Deviation | None |
| Condition of Test Sample | Normal |
| Report Template | AGCRT-US-2.5G/RF |

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2003 and TIA/EIA 603. The sample tested as described in this report is in compliance with the FCC Rules Part 22H and 24E. The test results of this report relate only to the tested sample identified in this report.

| Tested By : | Sout Die | | | |
|---------------|--------------|--------------|--|--|
| | Bart Xie | Oct.16, 2014 | | |
| Reviewed By : | kille | 1 try | | |
| | Kidd Yang | Oct.16, 2014 | | |
| Approved By: | solger. | zhang | | |
| | Solger Zhang | Oct 16 2014 | | |

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

| Product Designation: | mobile phone | | |
|---|---|--|--|
| Hardware Version: | F092-MB-V0.1 | | |
| Software Version: | N/A | | |
| Frequency Bands: | ☐GSM 850 ☐PCS 1900 (U.S. Bands) | | |
| requeries bands. | ☐GSM 900 ☐DCS 1800 (Non-U.S. Bands) | | |
| Antenna: | PIFA Antenna | | |
| Antenna gain: | -1.0dBi | | |
| Battery parameter: | DC3.7V/600 mAh | | |
| Adapter Input: | AC100-240V 50/60Hz 0.15A | | |
| Adapter Output: | DC 5V/500mA | | |
| | 30.35 dBm Maximum ERP measured for GSM 850 | | |
| Outrat Barren | 31.78 dBm Maximum Average Burst Power for GSM 850 | | |
| Output Power: | 27.48 dBm Maximum EIRP measured for PCS 1900 | | |
| | 28.82 dBm Maximum Average Burst Power for PCS 1900 | | |
| Dual SIM Card: | The result for SIM1 is the worst case which was only recorded | | |
| GPRS Class: | 12 | | |
| Extreme Vol. Limits: | DC 3.4 V to DC4.2 V (Nominal DC 3.7 V) | | |
| Extreme Temp. Tolerance: | -10℃ to +55℃ | | |
| ** Note: The High Voltage DC 4.2V and Low Voltage DC 3.4V were declared by manufacturer, The | | | |
| EUT could not operate normally with higher or lower voltage. | | | |
| Other functions have been performed according to verification procedure except for MS function. | | | |
| SIM1 can't transmit with SIM2 simultaneously | | | |

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1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: UOS-AM103** filing to comply with the FCC Part 22H and 24E requirements.

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1.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI C 63.4: 2003; TIA/EIA 603 and FCC CFR 47 Rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

KDB 971168 D01 Power Meas License Digital Systems v02r01

1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

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

2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003.

FCC register No.: 259865

1.5 MEASUREMENT INSTRUMENTS

| NAME OF EQUIPMENT | MANUFACTURER | MODEL | SERIAL NUMBER | Calibration Date | Calibration Due. |
|-------------------------|-------------------|-------------|------------------|---------------------|------------------|
| SPECTRUM ANALYZER | AGILENT | E4440A | US41421290 | July 25, 2014 | July 24, 2015 |
| TEST RECEIVER | R&S | ESCI | 100694 | July 25, 2014 | July 24, 2015 |
| COMMUNICATION TESTER | AGILENT | 8960 | 122500087 | Oct.21, 2013 | Oct.20, 2014 |
| COMMUNICATION TESTER | R&S | CMU200 | 122500166 | Feb.27,2014 | Feb.26,2015 |
| SIGNAL GENERATOR | AGILENT | E4438C | MY44260051 | Feb.23,2014 | Feb. 22,2015 |
| LISN | R&S | ESH3-Z5 | 8389791009 | July 25, 2014 | July 24, 2015 |
| CLIMATE CHAMBER | ALBATROSS | | | July 25, 2014 | July 24, 2015 |
| Loop Antenna | A.H. | SAS-562B | SEL0097 | July 25, 2014 | July 24, 2015 |
| Bilogical Antenna | A.H. Systems Inc. | SAS-521-4 | 26 | June 6, 2014 | June 5, 2015 |
| Substitution Antenna | EMCO | 3142C | | June 6, 2014 | June 5, 2015 |
| Substitution Antenna | EM | EM-AH-10180 | 69 | Apr.19, 2014 | Apr.18, 2015 |
| Horn Antenna | EM | EM-AH-10180 | 67 | Apr.19, 2014 | Apr.18, 2015 |
| Horn Antenna | A.H. Systems Inc. | SAS-574 | | June 6, 2014 | June 5, 2015 |

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1.6 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

1.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.3 GENERAL TECHNICAL REQUIREMENTS

| Item Number | Item Description | | FCC Rules | |
|----------------|---------------------|-----------------------------|--------------------------|--|
| 4 | Output Dawer | Conducted | 22.913(a) / 24.232 (b) | |
| 1 | Output Power | Radiated | | |
| 0 | Peak-to-Average | Dock to Average Detic | 24 222(4) | |
| 2 | Ratio | Peak-to-Average Ratio | 24.232(d) | |
| 2 | Spurious | Conducted Spurious Emission | 2.4054 / 22.047 / 24.220 | |
| 3 | Emission | Radiated Spurious Emission | 2.1051 / 22.917 / 24.238 | |
| 4 | Mains Conducted E | Emission | 15.107 / 15.207 | |
| 5 | Frequency Stability | , | 2.1055 /24.235 | |
| 6 | Occupied Bandwidth | | 2.1049 (h)(i) | |
| 7 | Emission Bandwidth | | 22.917(b) / 24.238 (b) | |
| 8 | Band Edge | | 22.917(b) / 24.238 (b) | |

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2.4 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System



Table 2-1 Equipment Used in EUT System

| Item | Equipment | Model No. | ID or Specification | Note |
|------|--------------|-----------|---------------------|-----------|
| 1 | mobile phone | AM103 | FCC ID: UOS-AM83Z | EUT |
| 2 | Adapter | CH4 | DC5.0V / 500mA | Accessory |
| 3 | Battery | AM-5BB | DC3.7V/ 600 mAh | Accessory |
| 4 | Earphone | AM103 | N/A | Accessory |
| 5 | USB Cable | AM103 | N/A | Accessory |

Note: All the accessories have been used during the test. The following "EUT" in setup diagram means EUT system.

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3. SUMMARY OF TEST RESULTS

| Item Number | Item Description | | FCC Rules | Result |
|----------------|---------------------|-----------------------------|------------------------|--------|
| 4 | Outrant Dames | Conducted Output Power | 22.042(-) / 24.222 (b) | Pass |
| 1 | Output Power | Radiated Output Power | 22.913(a) / 24.232 (b) | |
| 0 | Peak-to-Average | Dook to Avenue Detic | 24.222(4) | Dese |
| 2 | Ratio | Peak-to-Average Ratio | 24.232(d) | Pass |
| 3 | Courieus Fraissies | Conducted Spurious Emission | 2.4054/22.047/.24.220 | Pass |
| 3 | Spurious Emission | Radiated Spurious Emission | 2.1051/22.917/ 24.238 | |
| 4 | Mains | Conducted Emission | 15.107 / 15.207 | Pass |
| 5 | Frequency Stability | | 2.1055 /24.235 | Pass |
| 6 | Occupied Bandwidth | | 2.1049 (h)(i) | Pass |
| 7 | Emission Bandwidth | | 22.917(b) / 24.238 (b) | Pass |
| 8 | | Band Edge | 22.917(b) / 24.238 (b) | Pass |

4. DESCRIPTION OF TEST MODES

During the testing, the EUT (Dual-band GSM / GPRS Mobile Phone) was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMU 200) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both GSM and PCS frequency band.

Note: GSM and GPRS modes have been tested during the test. The worst condition (GSM) be recorded in the test report if no other modes test data.

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5. OUTPUT POWER

5.1 RADIATED OUTPUT POWER

5.1.1 MEASUREMENT METHOD

The measurements procedures specified in TIA-603C-2004 were applied.

- In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.
- 2 The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established as ARpl=Pin + 2.15 Pr. The ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl
- 3 The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
- 4 From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
- 5 The EUT is then put into continuously transmitting mode at its maximum power level.
- Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.
- 7 This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).
- 8 ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi..

5.1.2 PROVISIONS APPLICABLE

This is the test for the maximum radiated power from the EUT. Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage." Rule Part 22.913(a) specifies "Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

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| Radiated Power Limits for GSM 850 MHZ (ERP) | | | |
|---|------------------------------------|------------------|--|
| Mode | Mode Power Step Nominal Peak Power | | |
| GSM | 5 | <=38.45 dBm (7W) | |
| GPRS | 3 | <=38.45 dBm (7W) | |

| Radiated Power Limits for PCS 1900 MHZ (E.I.R.P.) | | | |
|---|------------|--------------------|--|
| Mode | Power Step | Nominal Peak Power | |
| GSM | 0 | <=33 dBm (2W) | |
| GPRS | 3 | <=33 dBm (2W) | |

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5.1.3 MEASUREMENT RESULT

| | Radiated Power (ERP) for GSM 850 MHZ | | | | | |
|---------|--------------------------------------|------------|---------------|--------------|------------|--|
| | | | Res | | | |
| Mode | Frequency | Power Step | Max. Peak ERP | Polarization | Conclusion | |
| | | | (dBm) | Of Max. ERP | | |
| | 824.2 | 5 | 30.35 | Horizontal | Pass | |
| GSM | 836.6 | 5 | 30.27 | Horizontal | Pass | |
| | 848.8 | 5 | 30.24 | Horizontal | Pass | |
| GPRS | 824.2 | 3 | 30.22 | Horizontal | Pass | |
| 1 slot | 836.6 | 3 | 30.13 | Horizontal | Pass | |
| 1 3101 | 848.8 | 3 | 30.02 | Horizontal | Pass | |
| GPRS | 824.2 | 3 | | Horizontal | Pass | |
| 2 slots | 836.6 | 3 | | Horizontal | Pass | |
| 2 31013 | 848.8 | 3 | | Horizontal | Pass | |
| GPRS | 824.2 | 2 | Less than | Horizontal | Pass | |
| 3 slots | 836.6 | 2 | 27 dBm | Horizontal | Pass | |
| 3 31013 | 848.8 | 2 | 27 05111 | Horizontal | Pass | |
| GPRS | 824.2 | 2 | | Horizontal | Pass | |
| 4 slots | 836.6 | 2 | | Horizontal | Pass | |
| 4 31013 | 848.8 | 2 | | Horizontal | Pass | |

| Radiated Power (E.I.R.P) for PCS 1900 MHZ | | | | | | | | |
|---|-----------|------------|---------------------|------------------|------------|--|--|--|
| | | | R | | | | | |
| Mode | Frequency | Power Step | Max. Peak | Polarization | Conclusion | | | |
| | | | E.I.R.P.(dBm) | Of Max. E.I.R.P. | | | | |
| | 1850.2 | 0 | 27.48 | Horizontal | Pass | | | |
| GSM | 1880.0 | 0 | 27.40 | Horizontal | Pass | | | |
| | 1909.8 | 0 | 27.32 | Horizontal | Pass | | | |
| GPRS | 1850.2 | 3 | 27.30 | Horizontal | Pass | | | |
| 1slot | 1880.0 | 3 | 27.27 | Horizontal | Pass | | | |
| 15101 | 1909.8 | 3 | 27.20 | Horizontal | Pass | | | |
| GPRS | 1850.2 | 3 | | Horizontal | Pass | | | |
| 2 slots | 1880.0 | 3 | | Horizontal | Pass | | | |
| 2 51015 | 1909.8 | 3 | | Horizontal | Pass | | | |
| GPRS | 1850.2 | 2 | l coo than | Horizontal | Pass | | | |
| 3 slots | 1880.0 | 2 | Less than 27 dBm | Horizontal | Pass | | | |
| 3 81018 | 1909.8 | 2 | 27 abiii | Horizontal | Pass | | | |
| GPRS | 1850.2 | 2 | | Horizontal | Pass | | | |
| 4 slots | 1880.0 | 2 | | Horizontal | Pass | | | |
| 4 51015 | 1909.8 | 2 | | Horizontal | Pass | | | |

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6. SPURIOUS EMISSION

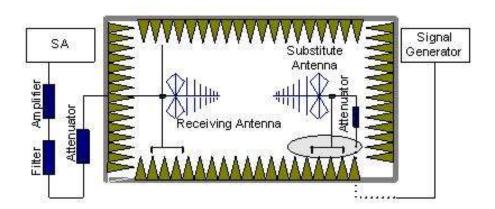
6.1 RADIATED SPURIOUS EMISSION

6.1.1 MEASUREMENT METHOD

The measurements procedures specified in TIA-603C-2004 were used for testing. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The measurements were performed on all modes(GSM, GPRS) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for both GSM band and PCS band.

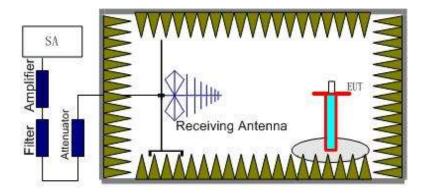
The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx(dBuV)+CL(dB)+SA(dB)+Gain(dBi)-107(dBuV to dBm) The SA is calibrated using following setup.



b) EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth.

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Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS band (1850.2 MHz, 1880 MHz and 1909.8 MHz) ,GSM850 band (824.2MHz, 836.6MHz, 848.8MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the PCS1900 ,GSM850 into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=P_{Mea}+A_{Rpl}

6.1.2 PROVISIONS APPLICABLE

(a) On any frequency outside a IMOBOnsee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

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6.1.3 MEASUREMENT RESULT

| The Worst Test Results for Channel 128 / 824.2 MHz | | | | | | | |
|--|------------|---------------|-----------|-------------|------------|--|--|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity | | |
| 1648.00 | -43.45 | -5.01 | -48.46 | -13.00 | Horizontal | | |
| 1752.00 | -45.82 | -2.18 | -48.00 | -13.00 | Vertical | | |
| 2472.00 | -46.64 | 3.46 | -43.18 | -13.00 | Horizontal | | |
| 9086.00 | -44.33 | 2.79 | -41.54 | -13.00 | Horizontal | | |

| The Worst Test Results for Channel 190/836.6 MHz | | | | | | |
|--|------------|---------------|-----------|-------------|------------|--|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity | |
| 1673.00 | -45.56 | -3.22 | -48.78 | -13.00 | Horizontal | |
| 1903.00 | -46.48 | -0.24 | -46.72 | -13.00 | Vertical | |
| 9089.00 | -47.72 | 3.98 | -43.74 | -13.00 | Vertical | |

| The Worst Test Results for Channel 251/848.8 MHz | | | | | | |
|--|------------|---------------|-----------|------------|------------|--|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit(dBm) | Polarity | |
| 1698.00 | -46.52 | -2.26 | -48.78 | -13.00 | Horizontal | |
| 1888.50 | -47.31 | -3.12 | -50.43 | -13.00 | Vertical | |
| 2131.00 | -48.63 | -1.74 | -50.37 | -13.00 | Vertical | |
| 9089.00 | -45.75 | 8.46 | -37.29 | -13.00 | Horizontal | |

| The Worst Test Results for Channel 512/1850.2 MHz | | | | | | |
|---|------------|---------------|-----------|-------------|------------|--|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity | |
| 1999.00 | -53.32 | -1.5 | -54.82 | -13.00 | Horizontal | |
| 3700.00 | -57.27 | 8.74 | -48.53 | -13.00 | Horizontal | |
| 12950.40 | -55.63 | 11.56 | -44.07 | -13.00 | Vertical | |
| 17919.60 | -52.77 | 17.89 | -34.88 | -13.00 | Vertical | |

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| The Worst Test Results for Channel 661/1880.0 MHz | | | | | | | |
|---|---|---------------|-----------|-------------|------------|--|--|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity | | |
| 2000.50 | -53.44 | 2.7 | -50.74 | -13.00 | Vertical | | |
| 9399.00 | -53.36 | 11.6 | -41.76 | -13.00 | Vertical | | |
| 13160.40 | -54.28 | 14.89 | -39.39 | -13.00 | Horizontal | | |
| 15039.60 | -54.37 | 13.87 | -40.50 | -13.00 | Vertical | | |
| 17941.20 | -55.84 | 19.76 | -36.08 | -13.00 | Horizontal | | |
| | The Worst Test Results for Channel 810/1909.8 MHz | | | | | | |
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity | | |
| 2000.00 | -56.67 | 2.32 | -54.35 | -13.00 | Vertical | | |
| 9548.50 | -55.51 | 11.3 | -44.21 | -13.00 | Horizontal | | |
| 13367.40 | -54.96 | 12.4 | -42.56 | -13.00 | Horizontal | | |
| 15277.80 | -56.79 | 15.03 | -41.76 | -13.00 | Vertical | | |
| 17931.60 | -54.24 | 19 | -35.24 | -13.00 | Horizontal | | |

Note: ARpl= Factor=Antenna Factor+ Cable loss-Amplifier gain.

The "Factor" value can be calculated automatically by software of measurement system.

Below 30MHZ no Spurious found and The GSM modes is the worst condition.

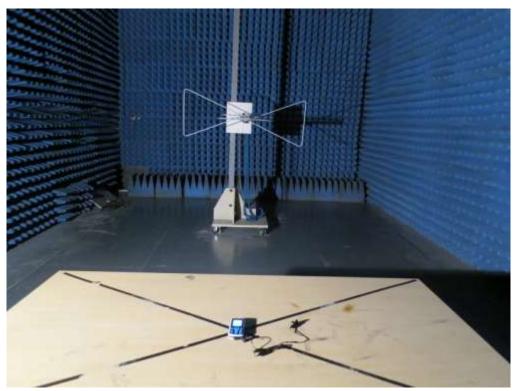
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APPENDIX IV: PHOTOGRAPHS OF TEST SETUP

CONDUCTED EMISSION



RADIATED SPURIOUS EMISSION



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APPENDIX V: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



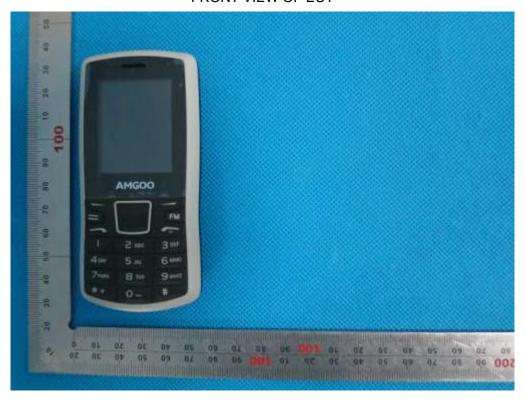
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT

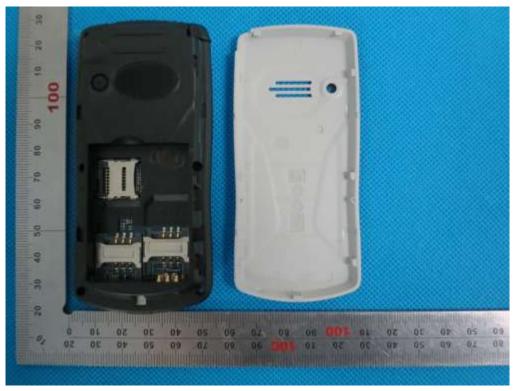


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RIGHT VIEW OF EUT

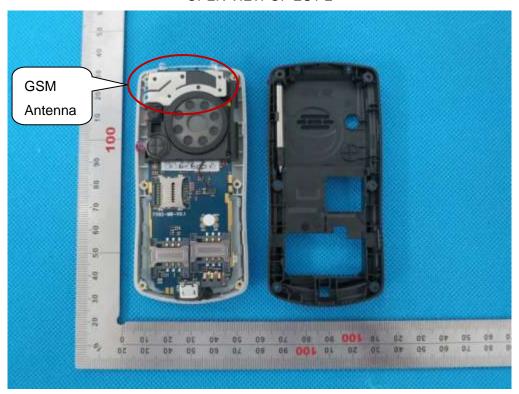


OPEN VIEW OF EUT-1



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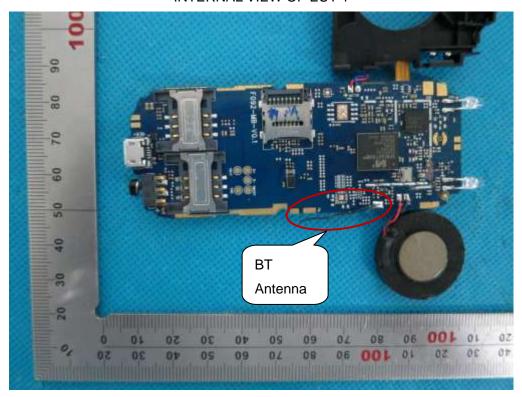
OPEN VIEW OF EUT-2



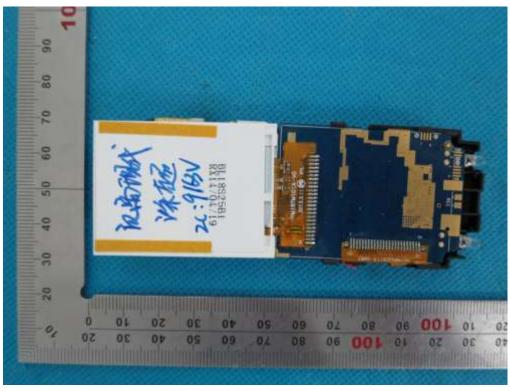
OPEN VIEW OF EUT-3



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----