| | FCC TEST REPORT |
|----------------------------------|---|
| | For |
| | FUI |
| | GSM/WCDMA MOBILE PHONE |
| | Medel Number M4 CC40C0 |
| | Model Number: M4 SS1060 |
| | FCC ID: CLNSS1060 |
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| | Report Number : WT138002574 |
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| | |
| Test Laboratory | |
| Test Laboratory | Inspection |
| Test Laboratory Site Location | Inspection National Digital Electronic Product Testing Center : No.4 Tongfa Road, Xili Town, Nanshan District, |
| | Inspection National Digital Electronic Product Testing Center |
| Site Location | Inspection National Digital Electronic Product Testing Center No.4 Tongfa Road, Xili Town, Nanshan District, Shenzhen, Guangdong, China |

| TEST REPORT DECLARATION | | | | |
|-------------------------|--|--|--|--|
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| Address | Montecito 38, Piso 23, Oficina 15. Colonia Nápoles. C.P. : 03810 Mexico 3/F, Skyworth Building C Gaoxin S. Ave. 1st, High-Tech industrial Park NanShan, ShenZhen | | | |
| Manufacturer | : CK Telecom Limited | | | |
| Address | . Technology Road.High-Tech Development Zone. Heyuan, Guangdong,P.R.China. | | | |
| EUT Description | GSM/WCDMA MOBILE PHONE | | | |
| Model No | M4 SS1060 | | | |
| Trade mark | . M4 | | | |
| Serial Number | . 357428021365392 . 357428021365418 | | | |
| FCC ID | - CLNSS1060 | | | |

Test Standards:

FCC Part 15 Subpart B 15.107, 15.109 (2012)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

| 実でら | Date: | Sept.9,2013 |
|---------------|--|---|
| | | |
| 的活為 | Date: | Sept.9,2013 |
| (Chen QiChun) | | |
| 并和代 | Date: | Sept.9,2013 |
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1. TEST RESULTS SUMMARY

| Table 1 | Test Results Summary |
|---------|----------------------|
| | |

| Test Items | FCC Rules | Test Results |
|-----------------------|-----------|--------------|
| Conducted Disturbance | 15.107 | Pass |
| Radiation Emission | 15.109 | Pass |

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Committee for Laboratories (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 446246 806614 994606(semi anechoic chamber).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is IC4174.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02. Measurement Uncertainty

2.3. Measurement Uncertainty

Conducted Emission

9kHz~30MHz 3.5dB

Radiated Emission 30MHz~1000MHz 4.5dB 1GHz~18GHz 4.6dB

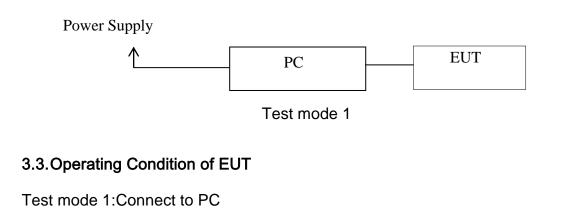
3. PRODUCT DESCRIPTION

3.1.EUT Description

Table 2 Specification of the Equipment under Test

| Product Type: | GSM/WCDMA MOBILE PHONE | | |
|---------------------|--|--|--|
| Hardware Revision : | | | |
| | | | |
| Software Revision : | M4_SS1060_S01_Ver200 | | |
| FCC-ID: | CLNSS1060 | | |
| Frequency: | GSM 850: 824.2-848.8MHz; | | |
| | PCS 1900: 1850.2-1909.8MHz | | |
| | FDD V: 826.4-846.6MHz; | | |
| | FDD II: 1852.4-1907.6MHz | | |
| | Bluetooth: 2402-2480MHz | | |
| | WIFI: 2412-2462MHz | | |
| Type(s) of | GMSK; QPSK | | |
| Modulation: | GFSK, π/4-DQPSK, 8-DPSK | | |
| | CCK OFDM | | |
| Antenna Type: | Internal | | |
| Operating voltage: | Internal battery, 110V AC Adapter; | | |
| | 3.4V (Low)/ 4.2V (Nominal)/ 4.2V (Max) | | |

3.2. Block Diagram of EUT Configuration



3.4. Support Equipment List

| Name | Model No | S/N | Manufacturer |
|--------------------------------|-------------|-------------|--------------|
| Notebook | R51 | | IBM |
| Adaptor for Notebook | 02K6654 | | IBM |
| Computer | 9439 | L3BDF2K | Lenovo |
| Keyboard (USB) | SK-8825 (L) | 02553778 | Lenovo |
| Mouse (USB) | MO28UOL | 4418011108 | Lenovo |
| Monitor | 9227-AE1 | V1TDB38 | Lenovo |
| Printer | BJC-265SP | EVX81604 | CANON |
| Adaptor for Printer | AD-300 | | CANON |
| MODEM TM-EC5656V | | 03402406009 | TP-Link |
| Adaptor for modem EI-41-AD9010 | | | |

3.5. Test Conditions

Date of test : Aug 29-Sept 6, 2013 Date of EUT Receive : Aug 28, 2013 Temperature: 23-24 °C Relative Humidity: 53-56%

3.6. Modifications

No modification was made.

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Conducted Disturbance

| No. | Equipment | Manufacturer | Model No. | LAST CALIB | Period |
|--------|-------------------|--------------|-----------|-------------|--------|
| SB3319 | EMI Test Receiver | R&S | ESCS30 | Jan.21,2013 | 1 Year |
| SB4357 | AMN | R&S | ENV216 | Jan.21,2013 | 1 Year |

4.2. Test Equipment Used to Measure Radiated Disturbance

Table 3 Radiated Disturbance Test Equipment

| No. | Equipment | Manufacturer | Model No. | LAST CALIB | Period |
|-----------|-------------------|-----------------|-----------|-------------|--------|
| SB3436 | EMI Test Receiver | Rohde & Schwarz | ESI26 | Jan.21,2013 | 1 Year |
| SB5472/02 | Bilog Antenna | SCHWARZBECK | VULB9163 | Jan.21,2013 | 1 Year |

5. CONDUCTED DISTURBANCE TEST

5.1.Test Standard and Limit

5.1.1.Test Standard

FCC Part 15: Section 15.107

5.1.2.Test Limit

Table 4 Conducted Disturbance Test Limit (Class B)

| Frequency | | N/ | Power Port limits (dBµV) | |
|-----------|---|--------|--------------------------|---------|
| Trequency | | ,y | Quasi-peak | Average |
| 0.15MHz | ~ | 0.5MHz | 66~56* | 56~46* |
| 0.5MHz | ~ | 5 MHz | 56 | 46 |
| 5 MHz | ~ | 30MHz | 60 | 50 |

* Decreasing linearly with logarithm of the frequency

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The emissions don't show in below are too low against the limits, the test curves are shown in the next page.

Table 5 Conducted Disturbance Test Data at mains Port

Model No.: M4 SS1060

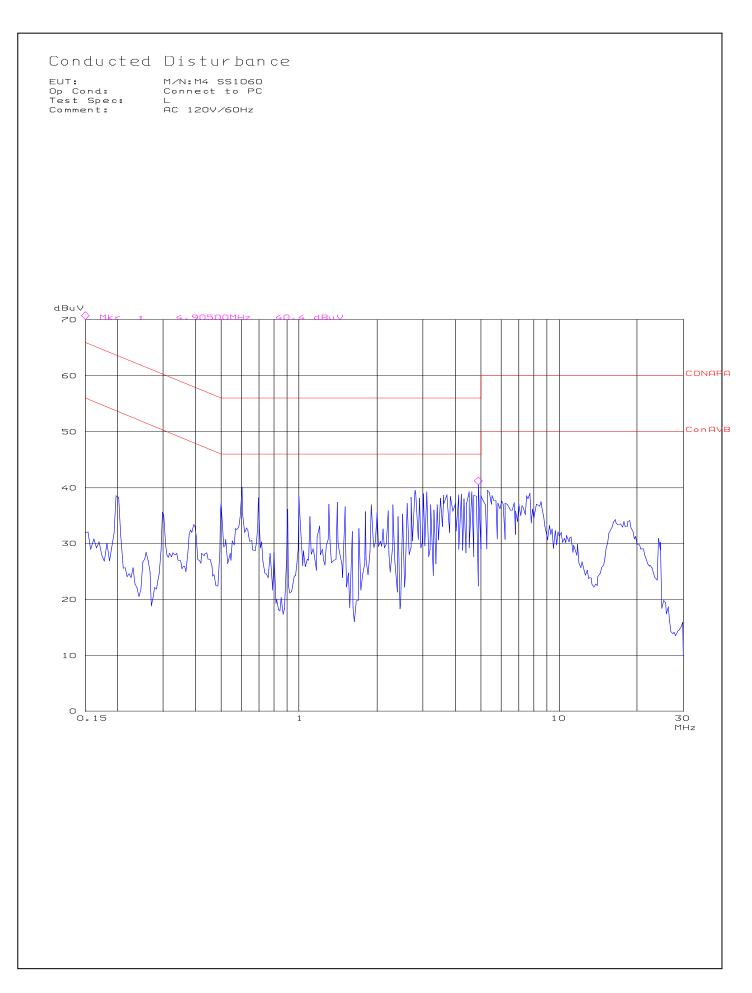
Test mode: Connect to PC

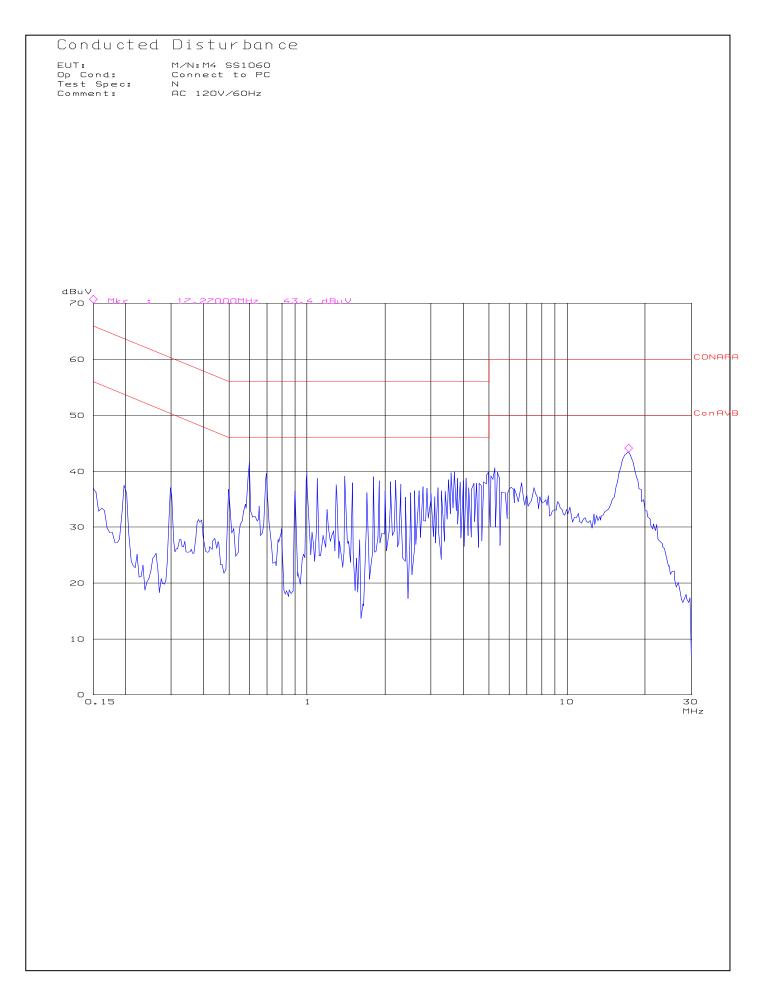
| | Frequency | Correction | | Quasi-Peak | | Average | | | |
|---------|-----------|----------------|-------------------|-----------------------------|------------------|-------------------|-----------------------------|------------------|--|
| | (MHz) | Factor (dB) | Reading (dBµV) | Emission Level (dBµV) | Limits (dBµV) | Reading (dBµV) | Emission Level (dBµV) | Limits (dBµV) | |
| Line | 4.905 | 9.9 | 27.9 | 37.8 | 56 | 25.4 | 35.3 | 46 | |
| | 0.602 | 9.8 | 29.0 | 38.8 | 56 | 26.9 | 36.7 | 46 | |
| | 0.698 | 9.8 | 24.0 | 33.8 | 56 | 20.8 | 30.6 | 46 | |
| | 1.000 | 9.8 | 27.1 | 36.9 | 56 | 26.0 | 35.8 | 46 | |
| | 2.800 | 9.9 | 21.3 | 31.2 | 56 | 15.8 | 25.7 | 46 | |
| | 3.105 | 9.9 | 27.9 | 37.8 | 56 | 24.9 | 34.8 | 46 | |
| Neutral | 17.270 | 9.9 | 24.2 | 34.1 | 60 | 16.3 | 26.2 | 50 | |
| | 0.598 | 9.8 | 30.6 | 40.4 | 56 | 29.0 | 38.8 | 46 | |
| | 0.698 | 9.8 | 28.7 | 38.5 | 56 | 27.1 | 36.9 | 46 | |
| | 0.998 | 9.8 | 28.8 | 38.6 | 56 | 27.9 | 37.7 | 46 | |
| | 1.095 | 9.8 | 21.8 | 31.6 | 56 | 18.8 | 28.6 | 46 | |
| | 3.690 | 9.9 | 18.7 | 28.6 | 56 | 12.6 | 22.5 | 46 | |

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)

3. The other emission levels were very low against the limit.





6. RADIATION DISTURBANCE TEST

6.1.Test Standard and Limit

6.1.1.Test Standard

FCC Part 15: Section 15.109

6.1.2.Test Limit

| Table 6 Radiation Disturbance Test Limit for FCC | (Class B) |
|--|-----------|
| | |

| Frequency | Limit (dBµV/m) | | | | |
|---------------------------|------------------|--|--|--|--|
| | Quasi-peak Level | | | | |
| 30MHz~88MHz | 40.0 | | | | |
| 88MHz~216MHz | 43.5 | | | | |
| 216MHz~960MHz | 46.0 | | | | |
| >960MHz | 54.0 | | | | |
| · · · · · · · · · · · · · | | | | | |

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set **3 meters** away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

The emissions don't show in below are too low against the limits, the test curves are shown in the next page.

| | | | Table 7 Ra | diated Dis | turbance Te | est Data | | | |
|------------------|-----------------------|---------------------------|----------------------|-------------------|-------------|-----------------------------|------------|--------------------|----------------|
| Frequency MHz | Cable Loss(dB) | Antenna Factor(d B) | Readings(d BµV/m) | Level(dBµ V/m) | | Turntable Angle(de g) | l laight/m | Limits(dBµV/m) | Margin(d B) |
| 72.611 | 1.0 | 8.7 | 15.6 | 25.3 | Н | 30.0 | 1.2 | 40.0 | 14.7 |
| 85.445 | 1.0 | 10.3 | 12.4 | 23.7 | Н | 65.9 | 1.2 | 40.0 | 16.3 |
| 126.352 | 1.2 | 10.5 | 16.6 | 28.3 | Н | 97.5 | 1.1 | 43.5 | 15.2 |
| 150.6 | 1.4 | 8.3 | 11.5 | 21.2 | Н | 281.1 | 1.1 | 43.5 | 22.3 |
| 180.968 | 1.6 | 9.7 | 11.5 | 22.8 | Н | 229.2 | 1.2 | 43.5 | 20.7 |
| 366.992 | 2.2 | 14.3 | 15.0 | 31.5 | Н | 251.1 | 1.2 | 46.0 | 14.5 |
| 45.851 | 0.8 | 13.6 | 17.7 | 32.1 | V | 170.9 | 1.2 | 40 | 7.9 |
| 50.4 | 0.8 | 13.3 | 17.8 | 31.9 | V | 358.0 | 1.0 | 40 | 8.1 |
| 75.852 | 1.0 | 8.7 | 21.1 | 30.8 | V | 263.1 | 1.1 | 40 | 9.2 |
| 85.011 | 1.0 | 10.3 | 15.9 | 27.2 | V | 94.3 | 1.1 | 40 | 12.8 |
| 126.312 | 1.2 | 10.5 | 16.9 | 28.6 | V | 352.7 | 1.0 | 43.5 | 14.9 |
| 150.6 | 1.4 | 8.3 | 21.8 | 31.5 | V | 66.5 | 1.1 | 43.5 | 12.0 |

Remark: No significant emission found for above 1GHz

Radiated Disturbance

EUT: M/N:M4 SS1060 Manufacturer: Operating Condition: Connect to PC Test Site: SMQ EMC Lab. SAC Operator: Test Specification: Horizontal & Vertical Comment: AC 120V/60Hz

