NVLAP LAB CODE 200707-0

# FCC PART 22 H/24 E

# MEASUREMENT AND TEST REPORT

For

## Shenzhen Hongjiayuan Communication Technology Co., Ltd.

Room 2406, Block A of Electronic Science and Technology Building,
No.2070, Shennan Zhong Road, Futian District,
Shenzhen City, Guangdong Province, China

## FCC ID: XUT-W008

| **Report Type:** | **Product Type:** |
|---|---|
| Original Report | GSM/GPRS Mobile Phone |

| | |
|---|---|
| **Test Engineer:** | Chris Peng |
| **Report Number:** | RSZA09120301-2224 |
| **Report Date:** | 2009-12-15 |
| **Reviewed By:** | Merry Zhao<br>EMC Engineer |
| **Prepared By:** | Bay Area Compliance Laboratories Corp. (Shenzhen)<br>6/F, the 3rd Phase of WanLi Industrial Building,<br>ShiHua Road, FuTian Free Trade Zone<br>Shenzhen, Guangdong, China<br>Tel: +86-755-33320018<br>Fax: +86-755-33320008 |

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# GENERAL INFORMATION

## Product Description for Equipment Under Test (EUT)

The *Shenzhen Hongjiayuan Communication Technology Co., Ltd.*'s product, model number: *W008 (FCC ID: XUT-W008)* or the "EUT" as referred to in this report is a *GSM/GPRS Mobile Phone*, which measures approximately:11.3 cm L x 5.5 cm W x 1.4 cm H, rated input voltage: DC 3.7V battery.

Frequency Range:
Cellular Band: 824-849 MHz (TX), 869-894 MHz (RX)
PCS Band: 1850-1910 MHz (TX), 1930-1990 MHz (RX)
Bluetooth: 2400-2483.5 MHz (TX/RX)
Wi-Fi: 2412-2462 MHz (TX/RX)

Modulation Mode: GMSK (GSM/PCS), GFSK (Bluetooth), CCK/ OFDM (Wi-Fi)

Transmitter Output Power:
Cellular Band: 33±2 dBm
PCS Band: 30±2 dBm
Bluetooth: -6~4 dBm
Wi-Fi: 802.11b 15±1 dBm, 802.11g 13±1 dBm

** All measurement and test data in this report was gathered from production sample serial number: M_IMEI: 357908020000199, S_IMEI: 357908020000272 (Assigned by the applicant). The EUT was received on 2009-11-11.*

## EUT Photo


*Please see additional photos in Exhibit B&C*

## Objective

This type approval report is prepared on behalf of *Shenzhen Hongjiayuan Communication Technology Co., Ltd.* in accordance with Part 2, Subpart J, Part 22 Subpart H, and Part 24 Subpart E of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for output power, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, band edge and radiated margin.

Based on the Product Similarity Declaration provided by the applicant, the difference between the EUT and the previous certified product is the antenna and circuit keyboard, the main board and RF characteristics are exactly same, the RF Exposure (SAR), RF (Radiated), Radiated Spurious Emissions have been investigated, the Occupied Bandwidth, Spurious Emissions at Antenna Terminal, Band Edge, Frequency Stability', an be referred to FCC ID: XUT-W007, certified on 2009-12-04, test report No: RSZ09111101-2224. Please refer to the product similarity declaration letter attached in Appendix A.

## Related Submittal(s)/Grant(s)

FCC Part 15.247(BT)/(Wi-Fi) submission with FCC ID: XUT-W008.

## Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 24 Subpart E - Personal Communication Services

Applicable Standards: TIA/EIA 603-C, ANSI C63.4-2003.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 21, 2007. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).

NVLAP LAB CODE 200707-0

The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

# SYSTEM TEST CONFIGURATION

## Justification

The EUT was configured for testing according to TIA/EIA-603-C.

The final qualification test was performed with the EUT operating at normal mode.

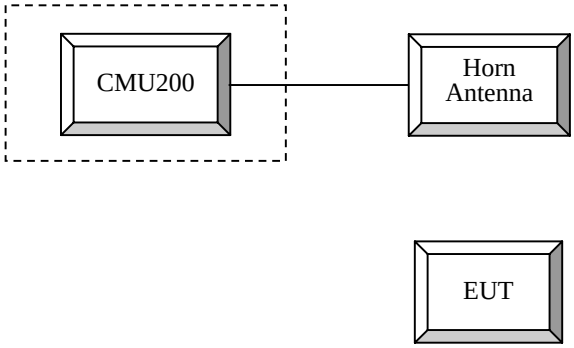
## Equipment Modifications

No modifications were made to the EUT.

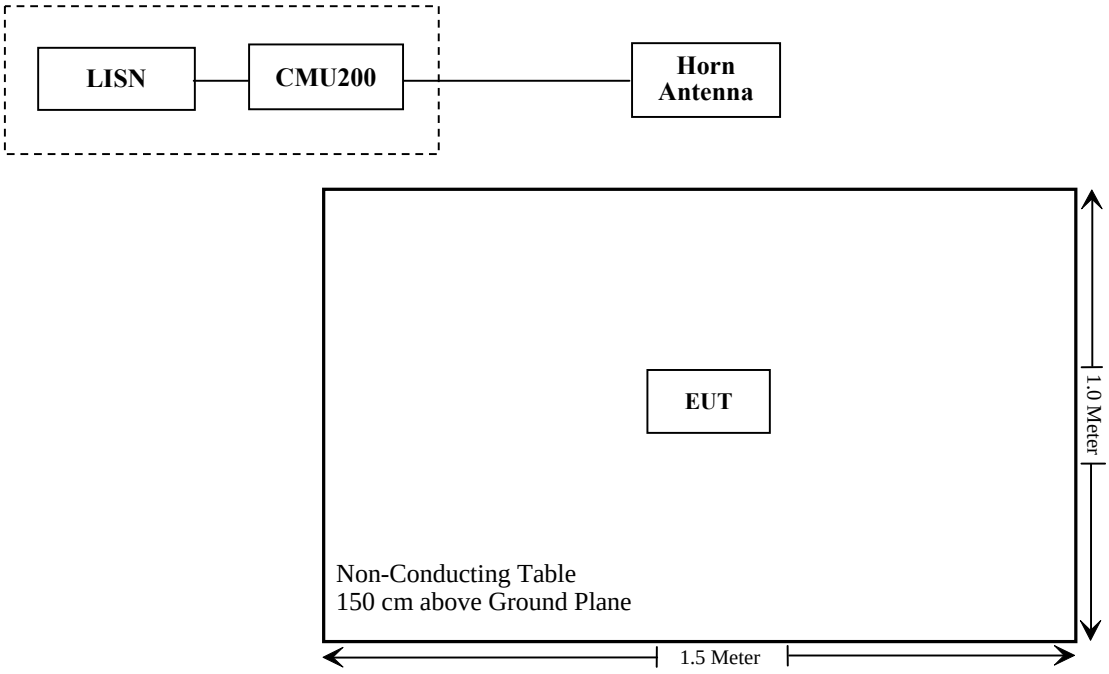
## Local Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number | FCC ID |
|---|---|---|---|---|
| R & S | Universal Radio commutation tester | CMU200 | 1100.0008.02 | DoC |

## Configuration of Test Setup



## Block Diagram of Test Setup



# SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|---|---|---|
| §1.1307, §2.1093 | RF Exposure (SAR) | Compliant * |
| §2.1046,<br>§ 22.913 (a), § 24.232 (c) | RF Output Power | Compliant |
| § 2.1047 | Modulation Characteristics | N/A |
| § 2.1049, § 22.905<br>§ 22.917, § 24.238 | 99% & -26 dB Occupied Bandwidth | Compliant ** |
| § 2.1051,<br>§ 22.917 (a), § 24.238 (a) | Spurious Emissions at Antenna Terminal | Compliant ** |
| § 2.1053,<br>§ 22.917 (a), § 24.238 (a) | Field Strength of Spurious Radiation | Compliant |
| § 22.917 (a), § 24.238 (a) | Out of band emission, Band Edge | Compliant ** |
| § 2.1055,<br>§ 22.355, § 24.235 | Frequency stability vs. temperature<br>Frequency stability vs. voltage | Compliant ** |

Note: * SAR report released by BACL, Report Number: RSZA09120301-SAR
** Please referred to FCC ID: XUT-W007, test report No.: RSZ09111101-2224.

# CFR47 §1.1307 & §2.1093 - RF EXPOSURE

## Applicable Standard

§1.1307 and §2.1093.

## Test Result

Compliance

The EUT is a portable device, thus requires SAR evaluation; please refer to BACL SAR Report: RSZA09120301-SAR.

# CFR47 §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

# CFR47 §2.1046, §22.913 (a) & §24.232 (c) - RF OUTPUT POWER

## Applicable Standard

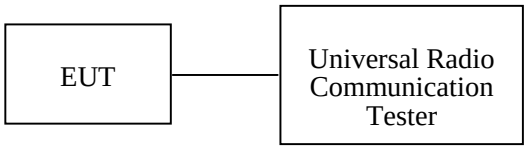
According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (C), in no case may the peak output power of a base station transmitter exceed 2 watt EIRP.

## Test Procedure

*Conducted method:*

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.




*Radiated method:*

TIA 603-C section 2.2.17

## Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| Sunol Sciences | Horn Antenna | DRH-118 | A052604 | 2009-05-05 | 2010-05-04 |
| Rohde & Schwarz | Spectrum Analyzer | FSEM30 | 849720/019 | 2009-07-08 | 2010-07-07 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-1 | 2009-03-11 | 2010-03-11 |
| HP | Preamplifier | 8449B | 3008A00277 | 2009-09-12 | 2010-09-11 |
| HP | Signal Generator | HP8657A | 2849U00982 | 2009-10-16 | 2010-10-15 |
| HP | Amplifier | HP8447D | 2944A09795 | 2009-08-02 | 2010-08-02 |
| HP | Synthesized Sweeper | 8341B | 2624A00116 | 2009-11-07 | 2010-11-06 |
| COM POWER | Dipole Antenna | AD-100 | 041000 | 2009-09-25 | 2010-09-25 |
| A.H. System | Horn Antenna | SAS-200/571 | 135 | 2009-05-17 | 2010-05-17 |
| Rohde & Schwarz | Universal Radio Communication Tester | CMU200 | 109038 | 2009-06-11 | 2010-06-10 |

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Test Data

### Environmental Conditions

| | |
|---|---|
| **Temperature:** | 25 °C |
| **Relative Humidity:** | 56 % |
| **ATM Pressure:** | 100.0kPa |

*The testing was performed by Chris Peng on 2009-12-14.*

**Test Result**: Compliant

### Conducted Power:

Please refer to FCC ID: XUT-W007, certified on 2009-12-05, test report No.: RSZ09111101-2224.

### Radiated Power (ERP and EIRP):

Cellular Band (Part 22H), GSM:

| Indicated | | Table Angle Degree | Test Antenna | | Substituted | | | Antenna Gain Correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Part 22H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Amp (dBμV/m) | | Height (m) | Polar (H/V) | Frequency (MHz) | S.G. Level (dBm) | Polar (H/V) | | | | Limit (dBm) |
| Low Channel | | | | | | | | | | | |
| 824.2 | 88.97 | 211 | 2.3 | H | 824.2 | 15.8 | H | 0 | 0.9 | 14.9 | 38.45 |
| 824.2 | 102.05 | 230 | 1.5 | V | 824.2 | 28.7 | V | 0 | 0.9 | 27.8 | 38.45 |
| Middle Channel | | | | | | | | | | | |
| 836.6 | 88.54 | 184 | 2.2 | H | 836.6 | 15.4 | H | 0 | 0.9 | 14.5 | 38.45 |
| 836.6 | 101.71 | 355 | 2.1 | V | 836.6 | 28.4 | V | 0 | 0.9 | 27.5 | 38.45 |
| High Channel | | | | | | | | | | | |
| 848.8 | 89.54 | 199 | 2.1 | H | 848.8 | 16.3 | H | 0 | 0.9 | 15.4 | 38.45 |
| 848.8 | 101.86 | 143 | 1.7 | V | 848.8 | 28.5 | V | 0 | 0.9 | 27.6 | 38.45 |

Cellular Band (Part 22H), GPRS:

| Indicated | | Table Angle Degree | Test Antenna | | Substituted | | | Antenna Gain Correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Part 22H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Amp (dBμV/m) | | Height (m) | Polar (H/V) | Frequency (MHz) | S.G. Level (dBm) | Polar (H/V) | | | | Limit (dBm) |
| Low Channel | | | | | | | | | | | |
| 824.2 | 88.31 | 276 | 2.2 | H | 824.2 | 15.2 | H | 0 | 0.9 | 14.3 | 38.45 |
| 824.2 | 101.51 | 186 | 1.5 | V | 824.2 | 28.2 | V | 0 | 0.9 | 27.3 | 38.45 |
| Middle Channel | | | | | | | | | | | |
| 836.6 | 88.37 | 82 | 2.7 | H | 836.6 | 15.2 | H | 0 | 0.9 | 14.3 | 38.45 |
| 836.6 | 101.21 | 221 | 1.5 | V | 836.6 | 27.9 | V | 0 | 0.9 | 27.0 | 38.45 |
| High Channel | | | | | | | | | | | |
| 848.8 | 90.28 | 200 | 2.2 | H | 848.8 | 16.8 | H | 0 | 0.9 | 15.9 | 38.45 |
| 848.8 | 101.03 | 16 | 1.5 | V | 848.8 | 28.7 | V | 0 | 0.9 | 27.8 | 38.45 |

PCS Band (Part 24E), GSM:

| Indicated | | Table Angle Degree | Test Antenna | | Substituted | | | Antenna Gain Correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Part 24E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Amp (dBμV/m) | | Height (m) | Polar (H/V) | Frequency (MHz) | S.G. Level (dBm) | Polar (H/V) | | | | Limit (dBm) |
| Low Channel | | | | | | | | | | | |
| 1850.2 | 86.21 | 0 | 2.5 | H | 1850.2 | 15.3 | H | 6.2 | 1.1 | 20.4 | 33 |
| 1850.2 | 90.78 | 256 | 2.4 | V | 1850.2 | 21.5 | V | 6.2 | 1.1 | 26.6 | 33 |
| Middle Channel | | | | | | | | | | | |
| 1880.0 | 84.66 | 0 | 1.0 | H | 1880.0 | 13.8 | H | 6.2 | 1.1 | 18.9 | 33 |
| 1880.0 | 91.30 | 254 | 1.0 | V | 1880.0 | 22.1 | V | 6.2 | 1.1 | 27.2 | 33 |
| High Channel | | | | | | | | | | | |
| 1909.8 | 83.05 | 315 | 1.3 | H | 1909.8 | 12.3 | H | 6.2 | 1.2 | 17.3 | 33 |
| 1909.8 | 90.36 | 323 | 1.1 | V | 1909.8 | 21.1 | V | 6.2 | 1.2 | 26.1 | 33 |

PCS Band (Part 24E), GPRS:

| Indicated | | Table Angle Degree | Test Antenna | | Substituted | | | Antenna Gain Correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Part 24E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Amp (dBμV/m) | | Height (m) | Polar (H/V) | Frequency (MHz) | S.G. Level (dBm) | Polar (H/V) | | | | Limit (dBm) |
| Low Channel | | | | | | | | | | | |
| 1850.2 | 87.58 | 0 | 1.1 | H | 1850.2 | 14.7 | H | 6.2 | 1.1 | 19.8 | 33 |
| 1850.2 | 91.51 | 260 | 1.0 | V | 1850.2 | 22.3 | V | 6.2 | 1.1 | 27.4 | 33 |
| Middle Channel | | | | | | | | | | | |
| 1880.0 | 86.78 | 360 | 3.0 | H | 1880.0 | 13.9 | H | 6.2 | 1.1 | 19.0 | 33 |
| 1880.0 | 91.43 | 266 | 1.1 | V | 1880.0 | 22.2 | V | 6.2 | 1.1 | 27.3 | 33 |
| High Channel | | | | | | | | | | | |
| 1909.8 | 85.55 | 0 | 3.0 | H | 1909.8 | 14.7 | H | 6.2 | 1.2 | 19.7 | 33 |
| 1909.8 | 90.63 | 52 | 1.0 | V | 1909.8 | 21.4 | V | 6.2 | 1.2 | 26.4 | 33 |

# CFR47 §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH

## Applicable Standards

CFR 47 §2.1049, §22.917, §22.905 and §24.238.

**Test Result**: Compliant

Please refer to FCC ID: XUT-W007, certified on 2009-12-05, test report No.: RSZ09111101-2224.

# CFR47 §2.1051, §22.917(a) & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

## Applicable Standards

CFR 47 §2.1051, §22.917(a) and §24.238(a).

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

**Test Result**: Compliant

Please refer to FCC ID: XUT-W007, certified on 2009-12-05, test report No.: RSZ09111101-2224.

# CFR47 §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS

## Applicable Standards

CFR 47 § 2.1053, §22.917 and § 24.238.

## Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 $\text{Log}_{10}$ (power out in Watts)

## Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| Sunol Sciences | Horn Antenna | DRH-118 | A052604 | 2009-05-05 | 2010-05-04 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-1 | 2009-03-11 | 2010-03-11 |
| Rohde & Schwarz | Spectrum Analyzer | FSEM30 | 849720/019 | 2009-07-08 | 2010-07-07 |
| HP | Preamplifier | 8449B | 3008A00277 | 2009-09-12 | 2010-09-11 |
| HP | Signal Generator | HP8657A | 2849U00982 | 2009-10-16 | 2010-10-15 |
| HP | Amplifier | HP8447D | 2944A09795 | 2009-08-02 | 2010-08-02 |
| HP | Synthesized Sweeper | 8341B | 2624A00116 | 2009-11-07 | 2010-11-06 |
| COM POWER | Dipole Antenna | AD-100 | 041000 | 2009-09-25 | 2010-09-25 |
| A.H. System | Horn Antenna | SAS-200/571 | 135 | 2009-05-17 | 2010-05-17 |
| Rohde & Schwarz | Universal Radio Communication Tester | CMU200 | 109038 | 2009-06-11 | 2010-06-10 |

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Test Data

### Environmental Conditions

| | |
|---|---|
| **Temperature:** | 25 °C |
| **Relative Humidity:** | 56 % |
| **ATM Pressure:** | 100.0kPa |

*The testing was performed by Chris Peng on 2009-12-14.*

*Test mode: Transmitting*

### Below 1 GHz:

**Cellular Band (GSM)**

| Indicated | | Table Angle Degree | Test Antenna | | Substituted | | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Amp. (dBμV/m) | | Height (m) | Polar (H/V) | Frequency (MHz) | Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | | | |
| Middle Channel | | | | | | | | | | | |
| 897.40 | 37.55 | 224 | 1.0 | H | 897.40 | -61.1 | 0 | 0.6 | -61.7 | -13 | 48.7 |
| 892.60 | 35.27 | 233 | 1.2 | V | 892.60 | -61.8 | 0 | 0.6 | -62.4 | -13 | 49.4 |

**PCS Band (GPRS)**

| Indicated | | Table Angle Degree | Test Antenna | | Substituted | | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Amp. (dBμV/m) | | Height (m) | Polar (H/V) | Frequency (MHz) | Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | | | |
| Middle Channel | | | | | | | | | | | |
| 953.42 | 40.60 | 204 | 1.5 | H | 953.42 | -58.0 | 0 | 0.7 | -58.7 | -13 | 45.7 |
| 961.20 | 35.86 | 163 | 1.1 | V | 961.20 | -61.2 | 0 | 0.8 | -62.0 | -13 | 49.0 |

**Above 1 GHz:**

**Cellular Band (GSM)**

| Indicated | | Table Angle Degree | Test Antenna | | Substituted | | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Amp. (dBμV/m) | | Height (m) | Polar (H/V) | Frequency (MHz) | Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | | | |
| Middle Channel | | | | | | | | | | | |
| 2509.8 | 56.14 | 44 | 1.1 | V | 2509.8 | -41.5 | 7.3 | 1.2 | -35.40 | -13 | 22.40 |
| 1673.2 | 57.35 | 124 | 1.2 | V | 1673.2 | -42.7 | 6.2 | 0.8 | -37.30 | -13 | 24.30 |
| 3346.6 | 51.25 | 304 | 1.1 | V | 3346.6 | -46.3 | 6.7 | 1.4 | -41.00 | -13 | 28.00 |
| 1673.2 | 54.67 | 63 | 1.3 | H | 1673.2 | -49.1 | 6.2 | 0.8 | -43.70 | -13 | 30.70 |
| 3346.6 | 49.58 | 115 | 1.3 | H | 3346.6 | -49.0 | 6.7 | 1.4 | -43.70 | -13 | 30.70 |
| 2509.8 | 52.36 | 220 | 1.5 | H | 2509.8 | -50.2 | 7.3 | 1.2 | -44.10 | -13 | 31.10 |

**PCS Band (GPRS)**

| Indicated | | Table Angle Degree | Test Antenna | | Substituted | | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Amp. (dBμV/m) | | Height (m) | Polar (H/V) | Frequency (MHz) | Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | | | |
| Middle Channel | | | | | | | | | | | |
| 7520 | 43.23 | 245 | 1.3 | H | 7520 | -42.2 | 7.6 | 2.1 | -36.70 | -13 | 23.70 |
| 7520 | 44.10 | 18 | 1.0 | V | 7520 | -43.3 | 7.6 | 2.1 | -37.80 | -13 | 24.80 |
| 5640 | 45.81 | 289 | 1.1 | V | 5640 | -44.7 | 8.3 | 1.8 | -38.20 | -13 | 25.20 |
| 5640 | 45.29 | 126 | 1.2 | H | 5640 | -46.8 | 8.3 | 1.8 | -40.30 | -13 | 27.30 |
| 3760 | 46.63 | 198 | 1.1 | V | 3760 | -49.6 | 6.9 | 1.5 | -44.20 | -13 | 31.20 |
| 3760 | 45.70 | 0 | 1.3 | H | 3760 | -52.1 | 6.9 | 1.5 | -46.70 | -13 | 33.70 |

# CFR47 §22.917(a) & §24.238(a) - BAND EDGES

## Applicable Standards

According to § 22.917(a), the power of any emissions 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.

According to §24.238(a), the power of any emissions 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 Result**: Compliant

Please refer to FCC ID: XUT-W007, certified on 2009-12-05, test report No.: RSZ09111101-2224.

# CFR47 §2.1055, §22.355 & §24.235 - FREQUENCY STABILITY

## Applicable Standard

CFR47 § 2.1055 (a), § 2.1055 (d), §22.355, §24.235

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

| Frequency Range (MHz) | Base, fixed (ppm) | Mobile ≤ 3 watts (ppm) | Mobile ≤ 3 watts (ppm) |
|---|---|---|---|
| 25 to 50 | 20.0 | 20.0 | 50.0 |
| 50 to 450 | 5.0 | 5.0 | 50.0 |
| 450 to 512 | 2.5 | 5.0 | 5.0 |
| 821 to 896 | 1.5 | 2.5 | 2.5 |
| 928 to 929. | 5.0 | N/A | N/A |
| 929 to 960. | 1.5 | N/A | N/A |
| 2110 to 2220 | 10.0 | N/A | N/A |

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

**Test Result**: Compliant

Please refer to FCC ID: XUT-W007, certified on 2009-12-05, test report No.: RSZ09111101-2224.

appearance、 antenna and the circuit of the keyboard on the main board.

Please contact me if you have any question.



Cong Chen

Chang Jiang

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Fax: +86 755 33366565

## Product Similarity Declaration

To Whom It May Concern,

We, Shenzhen Hongjiayuan Communication Technology CO.,LTD. , hereby declare that our Product: GSM/GPRS Mobile Phone, Model Number: W008 is identical with the Model Number: W007 that was certified by BACL except the model name、 the appearance、 antenna and the circuit of the keyboard on the main board.

Please contact me if you have any question.

Signature: Cong Chen

Print Name: Cong Chen

Title: Manager
Date:2009-12-22

***** END OF REPORT *****