# FCC CFR47 PART 22H AND PART 24E
# CERTIFICATION TEST REPORT

**FOR**

**DUAL BAND 1XRTT CDMA PHONE WITH BLUETOOTH**

**MODEL NUMBER: K38-01**

**FCC ID: OVFKWC-K3801**

**REPORT NUMBER: 08U11977-1**

**ISSUE DATE: AUGUST 6, 2008**

*Prepared for*
**KYOCERA WIRELESS**
**10300 CAMPUS POINT DRIVE**
**SAN DIEGO, CA 92121, U.S.A.**

*Prepared by*
**COMPLIANCE CERTIFICATION SERVICES**
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NVLAP LAB CODE 200065-0

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|---|---|---|---|
| --- | 08/06/08 | Initial Issue | T. Chan |
| | | | |
| | | | |

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# 1. ATTESTATION OF TEST RESULTS

| | |
|---|---|
| **COMPANY NAME:** | KYOCERA WIRELESS<br>10300 CAMPUS POINT DRIVE<br>SAN DIEGO, CA 92121, U.S.A. |
| **EUT DESCRIPTION:** | DUAL BAND 1XRTT CDMA PHONE WITH BLUETOOTH |
| **MODEL:** | K38-01 |
| **SERIAL NUMBER:** | FFLM0000003277 |
| **DATE TESTED:** | JULY 30 -31, 2008 |

| APPLICABLE STANDARDS | |
|---|---|
| **STANDARD** | **TEST RESULTS** |
| FCC PART 22 SUBPART H | PASS |
| FCC PART 24 SUBPART E | PASS |

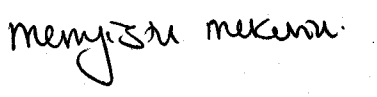
Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All expressions of Pass/Fail in this report are opinions expressed by CCS based on interpretations of the test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note**: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

Tested By:



MENGISTU MEKURIA
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA/EIA 603C (2004), FCC CFR 47 Part 2, FCC CFR 47 Part 22H, 24E.

# 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.

# 4. CALIBRATION AND UNCERTAINTY

## 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

## 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|---|---|
| Radiated Emission, 30 to 200 MHz | +/- 3.3 dB |
| Radiated Emission, 200 to 1000 MHz | +4.5 / -2.9 dB |
| Radiated Emission, 1000 to 2000 MHz | +4.5 / -2.9 dB |
| Radiated Emission, Above 2000 MHz | +/- 4.3 dB |
| Power Line Conducted Emission | +/- 2.9 dB |

Uncertainty figures are valid to a confidence level of 95%.

# 5. EQUIPMENT UNDER TEST

## 5.1. DESCRIPTION OF EUT

The EUT is a Bluetooth featured Dual band 1xRTT CDMA Phone that manufactured by Kyocera Wireless Corporations.

## 5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak ERP and EIRP output powers as follows:

824 to 849 MHz Authorized Band

| Frequency Range (MHz) | Modulation | ERP Peak Power (dBm) | ERP Peak Power (mW) |
|---|---|---|---|
| Low CH - 824.70 | CDMA2000 | 29.4 | 871.0 |
| Mid CH - 836.52 | | 30.5 | 1122.0 |
| High CH - 848.31 | | 29.4 | 871.0 |

1850 to 1910 MHz Authorized Band

| Frequency Range (MHz) | Modulation | EIRP Peak Power (dBm) | EIRP Peak Power (mW) |
|---|---|---|---|
| Low CH - 1851.25 | CDMA2000 | 30.6 | 1148.2 |
| Mid CH - 1880.00 | | 31.4 | 1380.4 |
| High CH - 1908.75 | | 29.9 | 977.2 |

## 5.3. SOFTWARE AND FIRMWARE

The EUT is linked with Agilent Communication Test Set.

## 5.4. WORST-CASE CONFIGURATION AND MODE

The worst-position was the EUT with highest emissions. To determine the worst-case, the EUT was investigated for X, Y, and Z-Positions, and the worst position among X, Y, and Z with battery charger. After the investigations, the worst-position was turned out to be an X-position with Battery Charger and Y-position with Battery Charger for Cell and PCS bands respectively.

**PROCEDURE USED TO ESTABLISH TEST SIGNAL**

**3G-CDMA2000 1xRTT**

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

| Application | Rev, License |
|---|---|
| CDMA2000 Mobil Test | B.10.11, L |

1xRTT

- Call Setup > Shift & Preset
- Protocol Rev > 6 (IS-2000-0)
- Radio Config (RC) > RC3 (Fwd3, Rvs3)
- FCH Service Option (SO) Setup > 55
- Traffic Data Rate > Full
- TDSO SCH Info > F-SCH Parameters > F-SCH Data Rate > 153.6 kbps
  > R-SCH Parameters > R-SCH Data Rate > 153.6 kbps
- Cell Info > Cell Parameters > System ID (SID) > 6503
  > Network ID (NID) > 0

Once “Active Cell” show “Connected ” then change “Rvs Power Ctrl” from “Active bits” to “**All Up bits**” to get the maximum power.

Worst-case Measurement Result @ Low, Middle and High Channel

Worst-case Measurement Result for Low, Middle and High Channel under Radio Configuration RC3 and Service Option 55.

## 5.5. DESCRIPTION OF TEST SETUP

**SUPPORT EQUIPMENT**

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | |
|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Serial Number** | **FCC ID** |
| AC/DC Adapter | Kyocera | TXTVL10128 | 8125-002 | DoC |

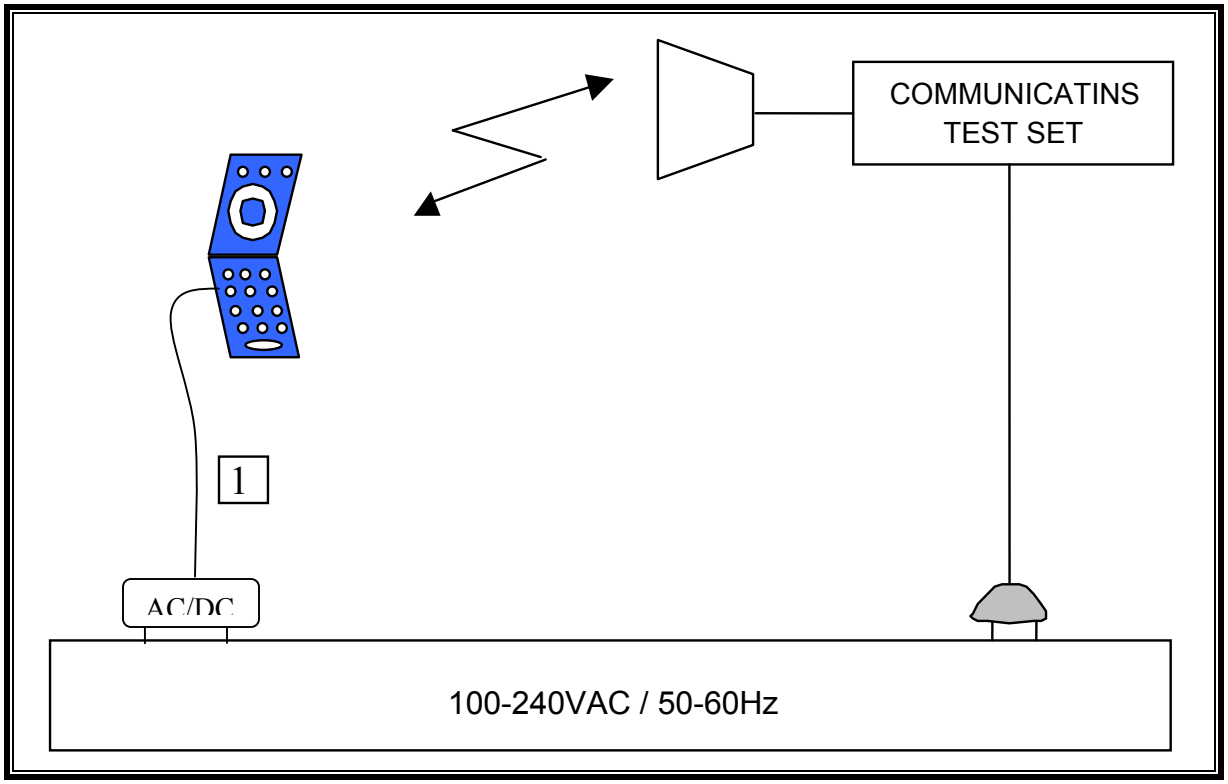
**I/O CABLES**

| I/O CABLE LIST | | | | | | |
|---|---|---|---|---|---|---|
| Cable No. | Port | # of Identical Ports | Connector Type | Cable Type | Cable Length | Remarks |
| 1 | DC Input | 1 | Mini-USB | Un-Shielded | 2.0 m | N/A |

**TEST SETUP**

The EUT is a CDMA phone and-is tested as a standalone configuration. Communications Test Set is used to link the device under test.

**RADIATED TEST SETUP DIAGRAM**



# 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| TEST EQUIPMENT LIST | | | | |
|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Asset** | **Cal Due** |
| Preamplifier, 26.5 GHz | Agilent / HP | 8449B | C01052 | 08/05/09 |
| Antenna, Bilog, 2 GHz | Sunol Sciences | JB1 | C01011 | 09/29/08 |
| Antenna, Horn, 18 GHz | ETS | 3117 | C01005 | 04/22/09 |
| Horn | EMCO | 3115 | C00872 | 04/22/09 |
| Dipole | Speag | D900V2 | NA | 11/16/08 |
| Spectrum Analyzer, 44 GHz | Agilent / HP | E4446A | C00945 | 05/30/09 |
| Highpass Filter, 1.5 GHz | Micro-Tronics | HPM13193 | N02689` | CNR |
| Highpass Filter, 2.7 GHz | Micro-Tronics | HPM13194 | N02687 | CNR |
| Signal Generator | R & S | SMP04 | C00953 | 02/16/09 |
| Communications Test Set | R & S | CMU200 | C001131 | 04/16/09 |
| Communications Test Set | Agilent / HP | E5515C | C01086 | 06/16/09 |

# 7. LIMITS AND RESULTS

## 7.1. RADIATED OUTPUT POWER

**LIMIT**

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
24.232(b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.
.

**TEST PROCEDURE**

ANSI / TIA / EIA 603 Clause 2.2.17

824 to 849 MHz Authorized Band

| Frequency Range (MHz) | Modulation | ERP Peak Power (dBm) | ERP Peak Power (mW) |
|---|---|---|---|
| Low CH - 824.70 | CDMA2000 | 29.4 | 871.0 |
| Mid CH - 836.52 | | 30.5 | 1122.0 |
| High CH - 848.31 | | 29.4 | 871.0 |

1850 to 1910 MHz Authorized Band

| Frequency Range (MHz) | Modulation | EIRP Peak Power (dBm) | EIRP Peak Power (mW) |
|---|---|---|---|
| Low CH - 1851.25 | CDMA2000 | 30.6 | 1148.2 |
| Mid CH - 1880.00 | | 31.4 | 1380.4 |
| High CH - 1908.75 | | 29.9 | 977.2 |

**RESULTS**

## CELL BAND CDMA OUTPUT POWER (ERP)

**High Frequency Substitution Measurement**
**Compliance Certification Services, Fremont 5m Chamber A**

**Company:** KYOCERA WIRELESS
**Project #:** 08U11977
**Date:** 7/30/2008
**Test Engineer:** MENGISTU MEKURIA
**Configuration:** EUT(K38-01) ALONE
**Mode:** TX CDMA CELL BAND

**Test Equipment:**
**Receiving: Sunol T130, and 5m Chamber N-type Cable (Setup this one for testing EUT)**
**Substitution: Dipole S/N: 00022117, and 4ft SMA Cable Warehouse S/N: 187208002.**

| f MHz | SA reading (dBuV/m) | Ant. Pol. (H/V) | SG reading (dBm) | CL (dB) | Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 824.70 | 98.4 | V | 23.9 | 0.5 | 0.0 | 23.4 | 38.5 | -15.0 | |
| 824.70 | 106.1 | H | 29.9 | 0.5 | 0.0 | 29.4 | 38.5 | -9.0 | |
| 836.52 | 98.4 | V | 23.7 | 0.6 | 0.0 | 23.1 | 38.5 | -15.4 | |
| 836.52 | 106.6 | H | 31.1 | 0.6 | 0.0 | 30.5 | 38.5 | -8.0 | |
| 848.31 | 97.3 | V | 23.3 | 0.7 | 0.0 | 22.6 | 38.5 | -15.9 | |
| 848.31 | 105.9 | H | 30.1 | 0.7 | 0.0 | 29.4 | 38.5 | -9.0 | |

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## PCS BAND CDMA OUTPUT POWER (EIRP)

**High Frequency Fundamental Measurement**
**Compliance Certification Services, Fremont 5m Chamber C**

| | |
|---|---|
| **Company:** | KYOCERA WIRELESS |
| **Project #:** | 08U11977 |
| **Date:** | 7/31/2008 |
| **Test Engineer:** | MENGISTU MEKURIA |
| **Configuration:** | EUT(K38-01) ALONE |
| **Mode:** | TX CDMA PCS BAND |

**Test Equipment:**
**Receiving: Horn T60, and 12ft S/N: 197209005 (Setup this one for testing EUT) Thanh Cable**
**Substitution: Horn T73 Substitution, 4ft SMA Cable Warehouse S/N: 177081002, Thanh cable**

| f GHz | SA reading (dBuV/m) | Ant. Pol. (H/V) | SG reading (dBm) | CL (dB) | Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Low Ch | | | | | | | | | |
| 1.851 | 100.2 | V | 23.2 | 0.9 | 8.3 | 30.6 | 33.0 | -2.5 | |
| 1.851 | 94.9 | H | 17.9 | 0.9 | 8.3 | 25.3 | 33.0 | -7.7 | |
| | | | | | | | | | |
| 1.880 | 100.4 | V | 23.9 | 0.9 | 8.3 | 31.4 | 33.0 | -1.6 | |
| 1.880 | 95.9 | H | 20.3 | 0.9 | 8.3 | 27.7 | 33.0 | -5.3 | |
| | | | | | | | | | |
| High Ch | | | | | | | | | |
| 1.909 | 98.3 | V | 22.4 | 0.9 | 8.4 | 29.9 | 33.0 | -3.1 | |
| 1.909 | 95.2 | H | 19.2 | 0.9 | 8.4 | 26.7 | 33.0 | -6.4 | |

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## 7.2. FIELD STRENGTH OF SPURIOUS EMISSION

**LIMIT**

§22.917 (e) and §24.238(a) Out of band emissions. 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.

§24.238 (a) Out of band emissions. 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 PROCEDURE**

ANSI / TIA / EIA 603 Clause 3.2.12 & FCC 22.917 (b), FCC 24.238 (b)

**RESULTS**

Note: No emissions were found within 30-1000MHz & after the seventh harmonic for CELL and fifth for harmonic PCS bands of 20dB below the system noise.

## CELL BAND CDMA SPURIOUS & HARMONIC (ERP)

High Frequency Substitution Measurement
Compliance Certification Services, Fremont 5m A-Chamber

Company: KYOCERA WIRELESS
Project #: 08U11977
Date: 7/31/2008
Test Engineer: MENGISTU MEKURIA
Configuration: EUT(K38-01) ALONE
Mode: TX CDMA CELL BAND

Test Equipment:

EMCO Horn 1-18GHz: T60; S/N: 2238 @3m
Horn > 18GHz:
Limit: FCC 22
High Pass Filter
Hi Frequency Cables: (2 ft) (2 ~ 3 ft) (4 ~ 6 ft) (12 ft)
Pre-amplifer 1-26GHz: T144 Miteq 3008A0(
Pre-amplifer 26-40GHz:

| f GHz | SA reading (dBuV/m) | Ant. Pol. (H/V) | SG reading (dBm) | CL (dB) | Gain (dBi) | Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Low Ch. (824.7 MHz) | | | | | | | | | | |
| 1.649 | 74.0 | V | -33.1 | 3.8 | 7.1 | 4.9 | -32.0 | -13.0 | -19.0 | |
| 2.474 | 64.0 | V | -40.3 | 4.9 | 9.3 | 7.1 | -38.0 | -13.0 | -25.0 | |
| 3.299 | 53.9 | V | -46.5 | 5.6 | 9.4 | 7.3 | -44.8 | -13.0 | -31.8 | |
| 4.124 | 54.8 | V | -42.6 | 6.3 | 10.0 | 7.8 | -41.1 | -13.0 | -28.1 | |
| 4.948 | 58.5 | V | -37.8 | 7.0 | 11.0 | 8.8 | -36.0 | -13.0 | -23.0 | |
| 5.773 | 44.3 | V | -49.3 | 7.5 | 11.4 | 9.2 | -47.5 | -13.0 | -34.5 | |
| 1.649 | 67.7 | H | -38.6 | 3.8 | 7.1 | 4.9 | -37.6 | -13.0 | -24.6 | |
| 2.474 | 56.4 | H | -47.7 | 4.9 | 9.3 | 7.1 | -45.4 | -13.0 | -32.4 | |
| 3.299 | 55.7 | H | -44.6 | 5.6 | 9.4 | 7.3 | -42.9 | -13.0 | -29.9 | |
| 4.124 | 50.6 | H | -46.5 | 6.3 | 10.0 | 7.8 | -44.9 | -13.0 | -31.9 | |
| 4.948 | 56.3 | H | -39.8 | 7.0 | 11.0 | 8.8 | -37.9 | -13.0 | -24.9 | |
| 5.773 | 45.9 | H | -46.7 | 7.5 | 11.4 | 9.2 | -45.0 | -13.0 | -32.0 | |
| | | | | | | | | | | |
| Mid Ch. (836.52 MHz) | | | | | | | | | | |
| 1.670 | 72.5 | V | -34.6 | 3.9 | 7.1 | 5.0 | -33.4 | -13.0 | -20.4 | |
| 2.506 | 60.5 | V | -43.6 | 4.9 | 9.3 | 7.1 | -41.4 | -13.0 | -28.4 | |
| 3.346 | 54.2 | V | -46.0 | 5.6 | 9.5 | 7.3 | -44.3 | -13.0 | -31.3 | |
| 4.183 | 50.3 | V | -47.0 | 6.3 | 10.0 | 7.9 | -45.5 | -13.0 | -32.5 | |
| 5.019 | 57.0 | V | -38.0 | 7.1 | 11.0 | 8.9 | -36.1 | -13.0 | -23.1 | |
| 5.857 | 45.4 | V | -48.2 | 7.5 | 11.5 | 9.4 | -46.4 | -13.0 | -33.4 | |
| 1.670 | 65.0 | H | -41.3 | 3.9 | 7.1 | 5.0 | -40.2 | -13.0 | -27.2 | |
| 2.506 | 51.0 | H | -52.9 | 4.9 | 9.3 | 7.1 | -50.7 | -13.0 | -37.7 | |
| 3.346 | 55.5 | H | -44.7 | 5.6 | 9.5 | 7.3 | -43.0 | -13.0 | -30.0 | |
| 4.183 | 46.0 | H | -51.1 | 6.3 | 10.0 | 7.9 | -49.5 | -13.0 | -36.5 | |
| 5.019 | 54.7 | H | -39.3 | 7.1 | 11.0 | 8.9 | -37.4 | -13.0 | -24.4 | |
| 5.857 | 44.4 | H | -48.2 | 7.5 | 11.5 | 9.4 | -46.4 | -13.0 | -33.4 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Hi Ch. (848.31 MHz) | | | | | | | | | | |
| 1.697 | 73.5 | V | -33.4 | 3.9 | 7.2 | 5.1 | -32.3 | -13.0 | -19.3 | |
| 2.545 | 61.5 | V | -42.4 | 4.9 | 9.3 | 7.1 | -40.2 | -13.0 | -27.2 | |
| 3.393 | 55.1 | V | -44.9 | 5.7 | 9.5 | 7.3 | -43.3 | -13.0 | -30.3 | |
| 4.242 | 51.8 | V | -45.5 | 6.4 | 10.1 | 8.0 | -44.0 | -13.0 | -31.0 | |
| 5.090 | 55.7 | V | -38.9 | 7.1 | 11.0 | 8.9 | -37.1 | -13.0 | -24.1 | |
| 5.938 | 45.7 | V | -47.9 | 7.6 | 11.6 | 9.5 | -46.0 | -13.0 | -33.0 | |
| 1.697 | 65.9 | H | -40.4 | 3.9 | 7.2 | 5.1 | -39.2 | -13.0 | -26.2 | |
| 2.545 | 51.5 | H | -52.2 | 4.9 | 9.3 | 7.1 | -50.0 | -13.0 | -37.0 | |
| 3.393 | 53.7 | H | -46.3 | 5.7 | 9.5 | 7.3 | -44.6 | -13.0 | -31.6 | |
| 4.242 | 45.1 | H | -51.8 | 6.4 | 10.1 | 8.0 | -50.3 | -13.0 | -37.3 | |
| 5.090 | 51.1 | H | -42.5 | 7.1 | 11.0 | 8.9 | -40.7 | -13.0 | -27.7 | |
| 5.938 | 44.2 | H | -48.3 | 7.6 | 11.6 | 9.5 | -46.4 | -13.0 | -33.4 | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Rev. 4.12.7

## PCS BAND CDMA SPURIOUS & HARMONIC (EIRP)

**High Frequency Substitution Measurement**
**Compliance Certification Services, Fremont 5m A-Chamber**

| | |
|---|---|
| **Company:** | KYOCERA WIRELESS |
| **Project #:** | 08U11977 |
| **Date:** | 7/31/2008 |
| **Test Engineer:** | MENGISTU MEKURIA |
| **Configuration:** | EUT(K38-01) ALONE |
| **Mode:** | TX CDMA PCS BAND |

**Test Equipment:**

EMCO Horn 1-18GHz: T60; S/N: 2238 @3m
Horn > 18GHz:
Limit: FCC 24
☑ High Pass Filter
Hi Frequency Cables: ☐ (2 ft) ☐ (2 ~ 3 ft) ☐ (4 ~ 6 ft) ☑ (12 ft)
Pre-amplifer 1-26GHz: T144 Miteq 3008A0(
Pre-amplifer 26-40GHz:

| f GHz | SA reading (dBuV/m) | Ant. Pol. (H/V) | SG reading (dBm) | CL (dB) | Gain (dBi) | Gain (dBd) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Low Ch. (1851.25 MHz)** | | | | | | | | | | |
| 3.703 | 44.5 | V | -54.4 | 5.9 | 9.7 | 7.5 | -50.7 | -13.0 | -37.7 | |
| 5.554 | 47.7 | V | -45.7 | 7.4 | 11.0 | 8.9 | -42.1 | -13.0 | -29.1 | |
| 7.405 | 47.5 | V | -43.3 | 8.3 | 12.0 | 9.8 | -39.6 | -13.0 | -26.6 | |
| 9.256 | 48.7 | V | -41.0 | 9.3 | 12.7 | 10.6 | -37.6 | -13.0 | -24.6 | |
| 3.703 | 44.8 | H | -54.0 | 5.9 | 9.7 | 7.5 | -50.3 | -13.0 | -37.3 | |
| 5.554 | 48.5 | H | -43.8 | 7.4 | 11.0 | 8.9 | -40.2 | -13.0 | -27.2 | |
| 7.405 | 48.7 | H | -41.2 | 8.3 | 12.0 | 9.8 | -37.5 | -13.0 | -24.5 | |
| 9.256 | 48.8 | H | -40.9 | 9.3 | 12.7 | 10.6 | -37.5 | -13.0 | -24.5 | |
| | | | | | | | | | | |
| **Mid Ch. (1880 MHz)** | | | | | | | | | | |
| 3.760 | 45.1 | V | -53.5 | 6.0 | 9.7 | 7.5 | -49.8 | -13.0 | -36.8 | |
| 5.640 | 45.3 | V | -48.1 | 7.4 | 11.2 | 9.0 | -44.4 | -13.0 | -31.4 | |
| 7.520 | 45.3 | V | -45.2 | 8.3 | 12.0 | 9.8 | -41.5 | -13.0 | -28.5 | |
| 9.400 | 48.4 | V | -41.0 | 9.4 | 12.7 | 10.6 | -37.7 | -13.0 | -24.7 | |
| 3.760 | 45.2 | H | -53.4 | 6.0 | 9.7 | 7.5 | -49.7 | -13.0 | -36.7 | |
| 5.640 | 45.3 | H | -47.2 | 7.4 | 11.2 | 9.0 | -43.4 | -13.0 | -30.4 | |
| 7.520 | 45.5 | H | -44.2 | 8.3 | 12.0 | 9.8 | -40.5 | -13.0 | -27.5 | |
| 9.400 | 45.1 | H | -44.3 | 9.4 | 12.7 | 10.6 | -41.0 | -13.0 | -28.0 | |
| | | | | | | | | | | |
| **Hi Ch. (1908.75 MHz)** | | | | | | | | | | |
| 3.818 | 45.8 | V | -52.7 | 6.0 | 9.7 | 7.6 | -49.0 | -13.0 | -36.0 | |
| 5.726 | 47.9 | V | -45.7 | 7.5 | 11.3 | 9.2 | -41.9 | -13.0 | -28.9 | |
| 7.635 | 45.6 | V | -44.7 | 8.4 | 12.0 | 9.8 | -41.1 | -13.0 | -28.1 | |
| 9.544 | 48.6 | V | -40.5 | 9.6 | 12.7 | 10.6 | -37.3 | -13.0 | -24.3 | |
| 3.818 | 46.2 | H | -52.1 | 6.0 | 9.7 | 7.6 | -48.4 | -13.0 | -35.4 | |
| 5.726 | 48.2 | H | -44.3 | 7.5 | 11.3 | 9.2 | -40.5 | -13.0 | -27.5 | |
| 7.635 | 46.4 | H | -43.1 | 8.4 | 12.0 | 9.8 | -39.5 | -13.0 | -26.5 | |
| 9.544 | 47.8 | H | -41.3 | 9.6 | 12.7 | 10.6 | -38.2 | -13.0 | -25.2 | |

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