

Test Report On
Singe-Band CDMA Cellular Phone

C2PC FCC Part 24 Certification

FCC ID: **OVF-K33BI01**

Models: **K33BI-01**

Date: **July 24, 2008**

STATEMENT OF CERTIFICATION

The data, data evaluation and equipment configuration represented herein are a true and accurate representation of the measurements of the sample's radio frequency interference emissions characteristics as of the dates and at the times of the test under the conditions herein specified.

STATEMENT OF COMPLIANCE

This product has been shown to be capable of compliance with the applicable technical standards as indicted in the measurement report and was tested in accordance with the measurement procedures specified in §2.947.

Date of Test: July 23 – July 24, 2008

Test performed by: Kyocera Wireless Corp.
10300 Campus Point Drive
San Diego, CA 92121

Report Prepared by: Thuy To, Regulatory Engineer

Report Reviewed by: C.K. Li, Director of Regulatory

Compliance Certification Services performed the tests that required an OATS site.

Table of Contents

1	GENERAL INFORMATION	3
2	PRODUCT DESCRIPTION	4
3	TEST CONFIGURATION.....	4
4	FCC COMPLIANCE EMERGENCY 911	5
5	TTY COMPLIANCE.....	5
6	TRANSMITTER RF POWER OUTPUT	5
6.1	CONDUCTED POWER	5
6.2	RADIATED POWER.....	6
7	OCCUPIED BANDWIDTH.....	7
8	SPURIOUS EMISSIONS AT ANTENNA TERMINALS	9
9	TRANSMITTER RADIATED SPURIOUS EMISSIONS MEASURED DATA	13
10	RECEIVER SPURIOUS EMISSIONS	13
11	TRANSMITTER RF CARRIER FREQUENCY STABILITY	13
12	EXPOSURE OF HUMANS TO RF FIELDS (SAR).....	14
13	TEST EQUIPMENT	14

1 General Information

Applicant:	Kyocera Wireless Corp 10300 Campus Point Drive San Diego CA 92121
FCC ID:	OVF-K33BI01
Product:	Single Band CDMA Cellular Phone
Model Numbers:	K33BI-01
EUT Serial Number:	FFSI0000002551
Type:	<input type="checkbox"/> Identical Prototype, <input checked="" type="checkbox"/> Pre-Production, <input type="checkbox"/> Production
Device Category:	Portable
RF Exposure Environment:	General Population / Uncontrolled
Antenna:	Internal Antenna
Detachable Antenna:	No
External Input:	Audio/Digital Data
Quantity:	Quantity production is planned
FCC Rule Parts:	§24E
Modes:	1900 CDMA
Multiple Access Scheme:	CDMA
TX Frequency (MHz):	1850 - 1910
Emission Designators:	1M25F9W
Max. Output Power (W):	1.072 EIRP

2 Product Description

The OVF-K33BI01 is a Single-Band 1XRTT CDMA Cellular phone. The phone has assisted GPS software feature enabled to meet the emergency location requirements of the FCC's E911 Phase II mandate. The single-band architecture is defined as 1900MHz (PCS CDMA).

The phone is designed in compliance with the technical specifications for compatibility of mobile and base stations in the Cellular Radio telephone service contained in "Cellular System Mobile Station -Land Station Compatibility Specification" as specified in OET Bulletin 53 and TIA Standards.

3 Test Configuration

For Part 24, all of CDMA measurements were conducted with Agilent 8960 as a base station simulator. The base station simulator establishes a CDMA link with the test device. To justify on the selection of applicable configurations, the EUT was pre-tested under all R.C. and S.O. operation modes to determine the worst case scenario:

CONFIGURATION (Peak)	CONDUCTED POWER (dBm)		
	CDMA 1900		
	Ch 25	Ch 600	Ch 1175
	Peak	Peak	Peak
SO2, RC1 Full Rate	26.85	26.84	26.70
SO2, RC3 Full Rate	26.38	26.50	26.72
SO55, RC1 Full Rate	26.83	26.86	26.77
SO55, RC3 Full Rate	27.09	27.03	27.11
TDSO SO32, RC3 (FCH +SCH) Full Rate	26.35	26.48	26.54
TDSO SO32, RC3 (-SCH) Full Rate	26.48	26.87	26.53

CONFIGURATION (Average)	CONDUCTED POWER (dBm)		
	CDMA 1900		
	Ch 25	Ch 600	Ch 1175
	Avg	Avg	Avg
SO2, RC1 Full Rate	22.68	22.76	22.73
SO2, RC3 Full Rate	22.69	22.80	22.65
SO55, RC1 Full Rate	22.71	22.67	22.70
SO55, RC3 Full Rate	22.72	22.85	22.79
TDSO SO32, RC3 (FCH +SCH) Full Rate	22.69	22.77	22.55
TDSO SO32, RC3 (-SCH) Full Rate	21.70	21.76	21.67

The following configuration was determined and reported as worst case for all measurements:
 Radio Configuration: RC3
 Service Options: SO55
 Data Rate: full rate

4 FCC Compliance Emergency 911

FCC § 22.921
<p>When an emergency 911 call is originated by the user, the mobile will attempt to acquire any available system and originate the emergency call on that system, disregarding restrictions set by the roaming list. The FCC NPRM WT99-13, CC94-102 automatic analog A/B roaming option has been implemented for 911 emergency calls.</p>

5 TTY compliance

FCC § 255 of the Telecom Act
<p>The OVF-K33BI01 phone models have been designed for TTY Compliance with Cellular Compatibility Standard.</p>

6 Transmitter RF Power Output

6.1 Conducted Power

FCC: § 2.1046
<p>Measurement Procedures:</p> <p>The RF output power was measured using a Giga-tronics 8541C Universal Power Meter. Terminated to a resistive coaxial load of 50 ohms.</p>

Mode	Frequency (MHz)	Channel	Power (dBm)
CDMA 1900	1851.25	25	22.72
	1880.00	600	22.85
	1908.75	1175	22.79

6.2 Radiated Power

FCC: § 24.232

Measurement Procedures:

Tests were performed in Compliance Certification Service using substitution method. See separated radiated emission report for details.

Mode	Frequency (MHz)	Channel	Max. Power (dBm)	Ref.
CDMA 1900	1851.25	25	30.30	EIRP
	1880.00	600	30.20	
	1908.75	1175	29.40	

7 Occupied Bandwidth

FCC: § 2.1049, § 24.238
<p>Measurement Procedures:</p> <p>The RF output of the EUT was connected to the input of the spectrum analyzer (S.A.) with sufficient attenuation. The spectrum with no modulation was recorded.</p> <p>For Digital: Modulate with full rate all up power control bit.</p>

List of Figures

Figure	Mode	Description
7-1	CDMA 1900	CDMA @ CH600
7-2		Lower Band Edge @ CH 25
7-3		Upper Band Edge @ CH 1175

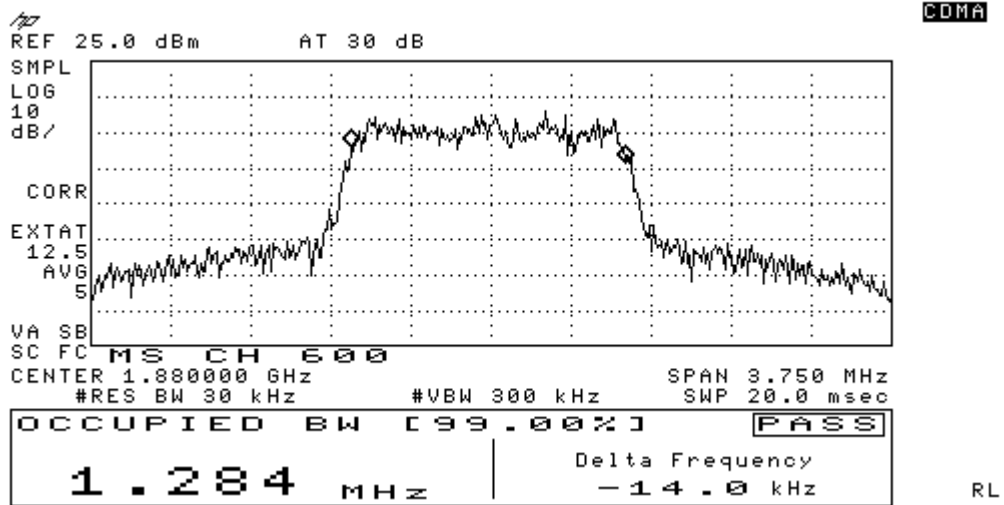


Figure 7-1 CDMA 1900 @ CH 600

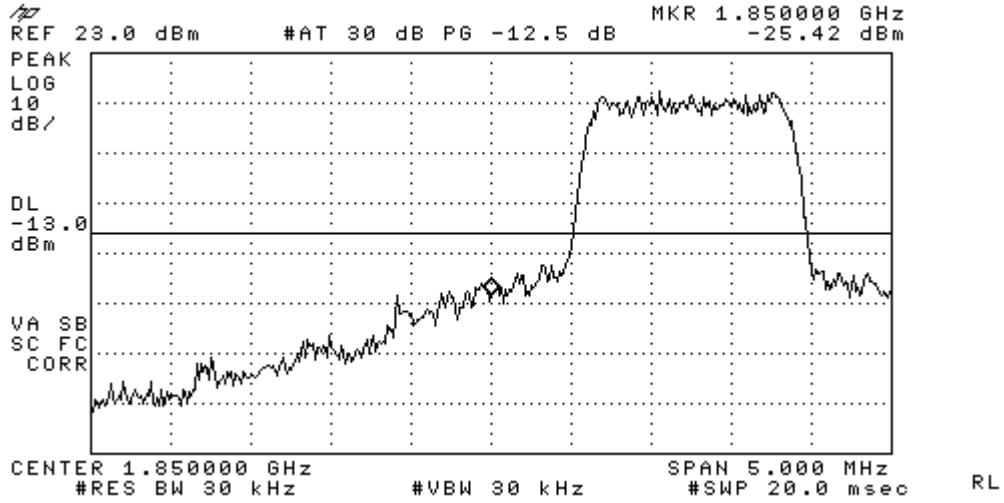


Figure 7-2 CDMA 1900 Lower Band Edge @ CH 25

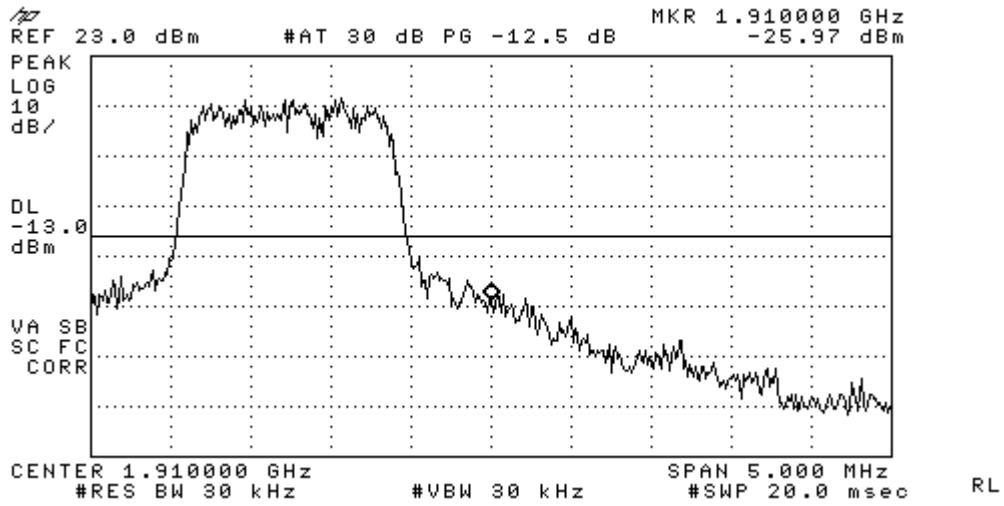


Figure 7-3 CDMA 1900 Upper Band Edge @ CH 1175

8 Spurious Emissions At Antenna Terminals

FCC:	§ 2.1051, § 24.238
Measurement Procedures:	
<p><u>Out of Band:</u> The RF output of the EUT was connected to the input of the spectrum analyzer with sufficient attenuation. The modulating signal was applied accordingly. The frequency spectrum was investigated from the lowest frequency signal generated up to at least the tenth harmonic of the fundamental.</p> <p>S.A. Setting: RBW=1MHz, VBW=1MHz</p>	

List of Figures:

Figure	Mode	Channel	Plot Description
8-1	CDMA 1900	25	Conducted spurious emissions, 9kHz to 22GHz
8-2		600	Conducted spurious emissions, 9kHz to 22GHz
8-3		1175	Conducted spurious emissions, 9kHz to 22GHz

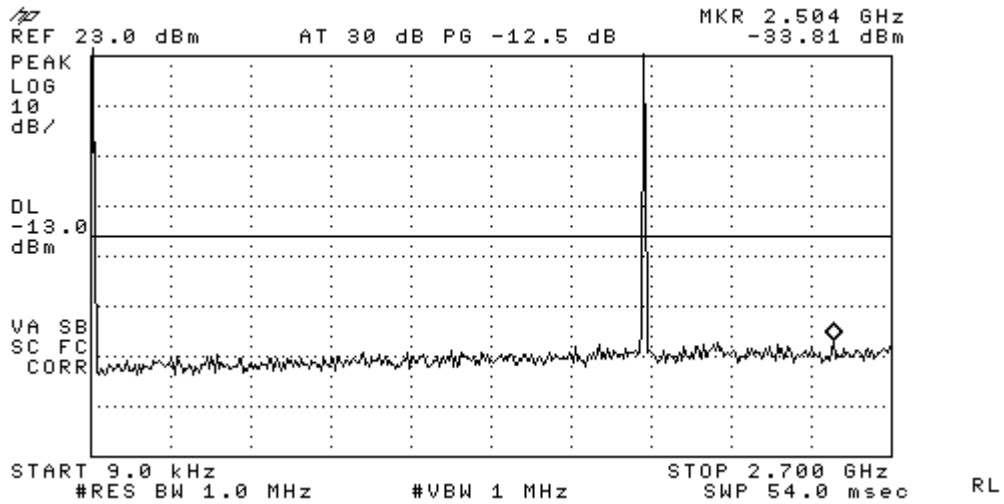


Figure 8-1a CDMA 1900 - Conducted Spurious Emission (CH 25)

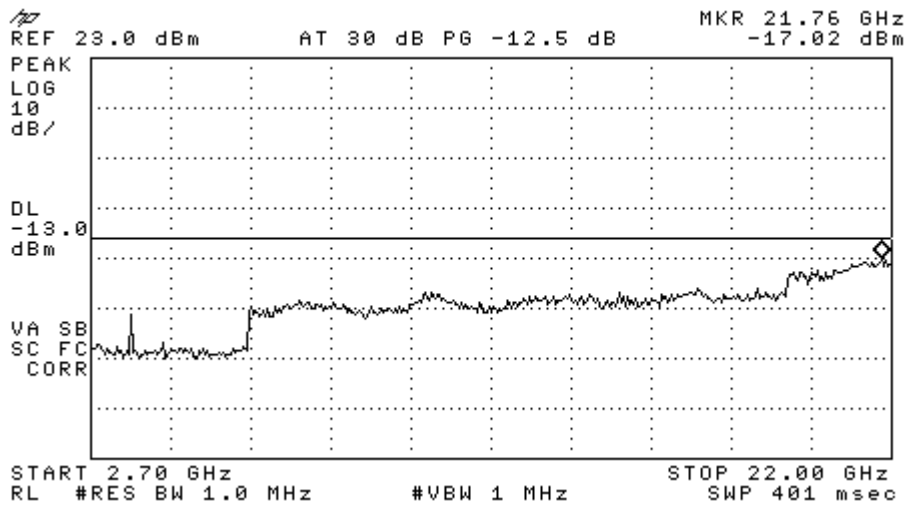


Figure 8-1b CDMA 1900 - Conducted Spurious Emission (CH 25)

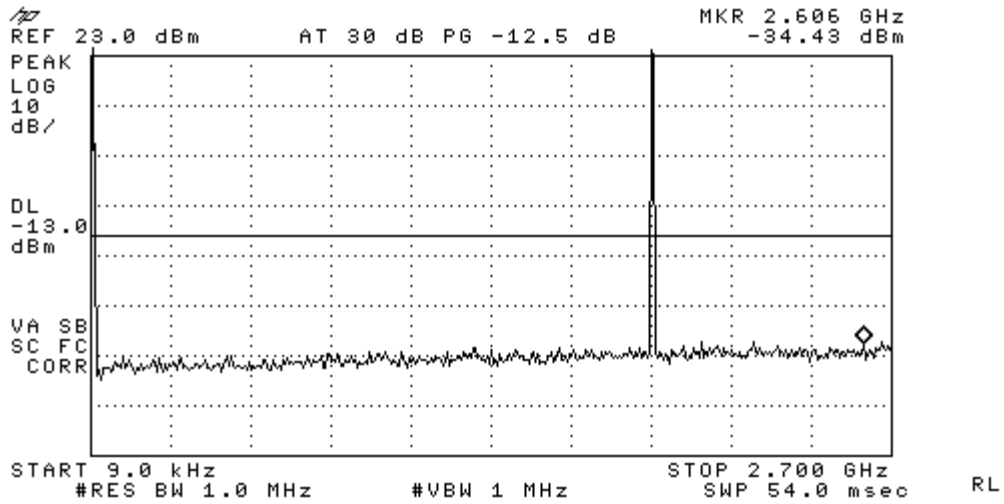


Figure 8-2a CDMA 1900 - Conducted Spurious Emission (CH 600)

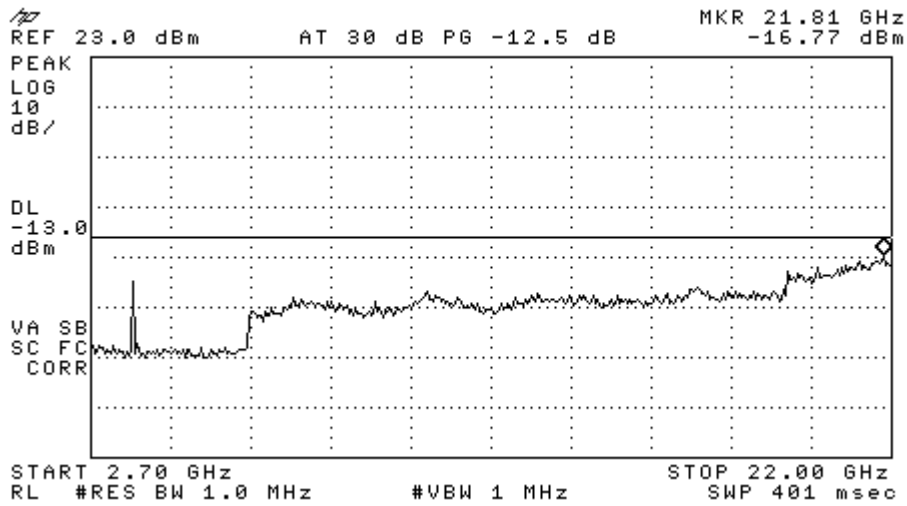


Figure 8-2b CDMA 1900 - Conducted Spurious Emission (CH 600)

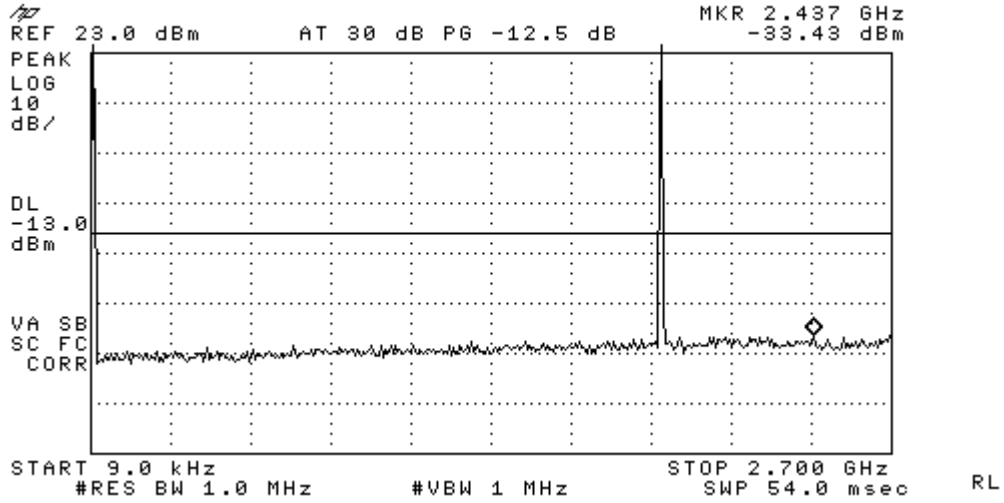


Figure 8-3a CDMA 1900 - Conducted Spurious Emission (CH 1175)

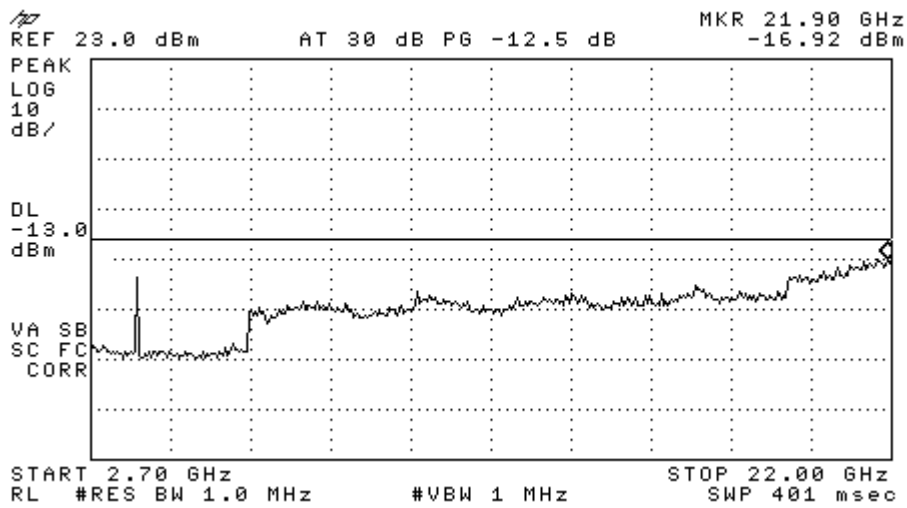


Figure 8-3b CDMA 1900 - Conducted Spurious Emission (CH 1175)

9 Transmitter Radiated Spurious Emissions Measured Data

FCC: § 2.1053, § 24.238
Measurement Procedures: The radiated spurious emission test was performed at Compliance Certification Service. The test report is attached in a separate attachment.

10 Receiver Spurious Emissions

FCC: § 15.109
Measurement Procedures: The receiver radiated spurious emission test was performed at Compliance Certification Service. The test report is attached in a separate attachment.

11 Transmitter RF Carrier Frequency Stability

FCC: § 2.1055, § 24.235
Measurement Procedures: N/A.

12 Exposure of Humans to RF Fields (SAR)

The SAR Test Report is showed in a separate attachment as Exhibit 9.

13 Test Equipment

Description	Manufacturer	Model Number	Serial Number	Cal Due Date
Power Meter	Giga-tronics	8541C	1832048	08/15/08
Spectrum Analyzer	Hewlett Packard	8593EM	3710A00203	03/04/10
Spectrum Analyzer	Hewlett Packard	8595E	3911A03899	07/19/09
Wireless Communications Test Set	Agilent	8960	US41070147	08/13/09
Temperature Chamber	Test Equity	ZH2-033-033-H/AC	ZZ9622421	02/20/09