

### HCT CO., LTD.

**Product Compliance Division** 

TEL: +82 31 639 8518 FAX: +82 31 639 8525

#### CERTIFICATE OF COMPLIANCE

### **FCC Part 22 Certification**

Applicant Name:

LG Electronics Inc.

Address:

60-39, Gasan-dong, Gumchon-gu, Seoul,

153-023, Korea

Date of Issue:

February 24, 2009

Test Site/Location:

HCT.CO., LTD., San 136-1 Ami-ri, Bubal-eup, Icheon-si,

Kyungki-do, Korea

Test Report No.: HCT-RF09-0208

HCT FRN: 0005866421

FCC ID

: BEJMC500

APPLICANT: LG Electronics Inc.

**Application Type:** 

Certification

**FCC Classification:** 

Licensed Non-Broadcast Transmitter Held to Ear(TNE)

FCC Rule Part(s):

§22, §2

**EUT Type:** 

Cellular Phone with Bluetooth

Model(s):

MC500

Additional Model(s):

UD500, EX500, LD500

Tx Frequency:

824.70 — 848.31 MHz (CDMA)

Rx Frequency:

869.70 — 893.31 MHz (CDMA)

Max. RF Output Power:

0.224 W ERP CDMA (23.51 dBm)

**Emission Designator(s):** 

1M27F9W (CDMA)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT.CO., LTD. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by

: Jong Seok Lee

Approved by

: Sang Jun Lee

Test engineer of RF Part Manager of RF Part

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### 1. GENERAL INFORMATION

**Applicant Name:** LG Electronics Inc.

Address: 60-39, Gasan-dong, Gumchon-gu, Seoul,

153-023, Korea

**Contact:** TEL: 82-2-2033-1108 / FAX: 82-2-2033-1222

FCC ID: BEJMC500

Application Type: Certification

FCC Classification: Licensed Non-Broadcast Transmitter Held to Ear(TNE)

FCC Rule Part(s): §22, §2

**EUT Type:** Cellular Phone with Bluetooth

Model(s): MC500

Additional Model(s): UD500, EX500, LD500

**Tx Frequency:** 824.70 — 848.31 MHz (CDMA)

**Rx Frequency:** 869.70 — 893.31 MHz (CDMA)

Max. RF Output Power: 0.224 W ERP CDMA ( 23.51 dBm)

Emission Designator(s): 1M27F9W (CDMA)

Antenna Specification Manufacturer: LS Mtron Co., Ltd.

Antenna type: Internal Antenna

Peak Gain: -1.587 dBi

**Date(s) of Tests:** February 03, 2009 ~ February 09, 2009

Place of Tests: HCT.CO., LTD.

San 136-1 Ami-ri, Bubal-eup, Icheon-si,

Report Serial No HCT-RF09-0208

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### 2. INTRODUCTION

### 2.1. EUT DESCRIPTION

The MC500 Cellular Phone with Bluetooth consists of Cellular CDMA.

### 2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

#### 2.3. TEST FACILITY

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 6, 2006(Registration Number: 90661)

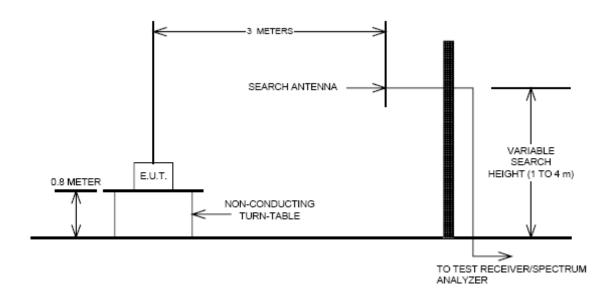
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### 3. DESCRIPTION OF TESTS

### 3.1 Effective Radiated Power/Equivalent Isotropic Radiated Power

### Test Set-up



#### **Test Procedure**

Radiated emission measurements were performed at an open Site.

The equipment under test is placed on a wooden turntable 3-meters from the receive antenna.

A wooden turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

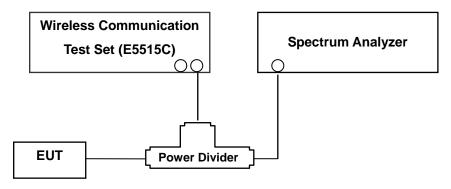
Note: This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55, with 'All Up' power control bits.

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### 3.2 Occupied bandwidth.

#### Test set-up



(Configuration of conducted Emission measurement)
Test Procedure

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Plots of the EUT's occupied bandwidth are shown herein.

Note: This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55, with 'All Up' power control bits.

### 3.3 Spurious and Harmonic Emissions at Antenna Terminal.

Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

The EUT was setup to maximum output power at its lowest channel. The Resolution BW of the analyzer is set to 1 % of the emission bandwidth to show compliance with the – 13 dBm limit, in the 1 MHz bands immediately outside and adjacent to the edge of the frequency block. The 1 MHz RBW was used to scan from 30 MHz to 10 GHz. (PCS CDMA Mode: 30 MHz to 20 GHz). A display line was placed at – 13 dBm to show compliance. The high, lowest and a middle channel were tested for out of band measurements.

- Band Edge Requirement: In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

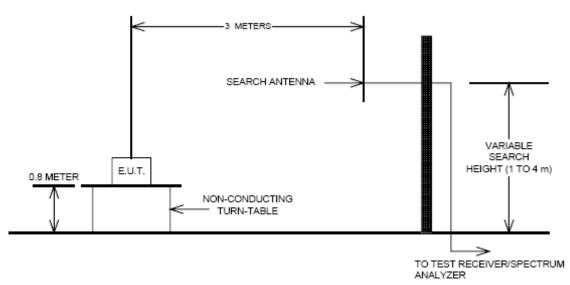
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Note: This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55, with 'All Up' power control bits.

### 3.4 Radiated Spurious and Harmonic Emissions

### Test Set-up



The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section § 2.948. The open field test site is situated in open field with ground screen whose site attenuation characteristics meet ANSI C63.4 –2003. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotatable wooden platform mounted at three from the antenna mast.

- 1) The unit mounted on a wooden table 1.5 m  $\times$  1.0 m  $\times$  0.80 m is 0.8 meter above test site ground level.
- 2) During the emission test, the turntable is rotated and the EUT is manipulated to find the configuration resulting in maximum emission under normal condition of installation and operation.
- 3) The antenna height and polarization are also varied from 1 to 4 meters until the maximum signal is found.
- 4) The spectrum shall be scanned up to the 10<sup>th</sup> harmonic of the fundamental frequency.

#### **Test Procedure**

The equipment under test is placed on a wooden turntable 3-meters from the receive antenna.

A wooden turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and the

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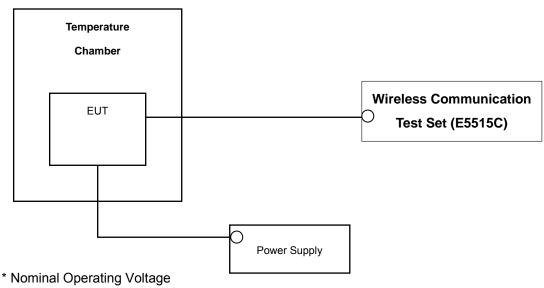


difference between the gain of the horn and an isotropic antenna are taken into consideration.

Note: This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55, with 'All Up' power control bits.

### 3.5 Frequency stability / variation of ambient temperature

### Test Set-up



**Test Procedure** 

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from 30 °C to + 50 °C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from battery end point to 115 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm$  0.000 25 %( $\pm$  2.5 ppm) of the center frequency.

#### Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

- 1. The equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

NOTE: The EUT is tested down to the battery endpoint.

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### **4. LIST OF TEST EQUIPMENT**

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
R&S	ESI40/ Spectrum Analyzer	831564/003	Annual	10/31/2009
Agilent	E4416A/ Power Meter	MY41291412	Annual	01/21/2010
Agilent	E9327A/ Power Sensor	MY4442009	Annual	07/28/2009
Agilent	8960 (E5515C)/ Base Station	GB44400269	Annual	02/10/2010
MITEQ	AMF-60-0010 1800-35-20P / AMP	1200937	Annual	05/20/2009
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	06/28/2009
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	06/28/2009
Agilent	775D/ Dual Directional Coupler	12922	Annual	12/24/2009
Agilent	11636B/ Power Divider	11377	Annual	12/24/2009
Digital	EP-3010/ Power Supply	3110117	Annual	01/07/2010
Schwarzbeck	UHAP/ Dipole Antenna	585	Annual	02/13/2011
Schwarzbeck	UHAP/ Dipole Antenna	558	Annual	02/13/2011
Korea Engineering	KR-1005L / Chamber	KRAB07063-2CH	Annual	12/31/2009
Schwarzbeck	VULB9160/ TRILOG Antenna	3150	Biennial	12/18/2010
Schwarzbeck	VULB9160/ TRILOG Antenna	3125	Biennial	05/16/2009
Schwarzbeck	BBHA 9120D/ Horn Antenna	147	Biennial	03/26/2010
Schwarzbeck	BBHA 9120D/ Horn Antenna	1201	Biennial	05/02/2009
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	12/23/2009

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### **5. SUMMARY OF TEST RESULTS**

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049, 22.917(a),	Occupied Bandwidth	N/A		PASS
2.1051, 22.917(a),	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< 43 + log <sub>10</sub> (P[Watts]) at Band Edge and for all out-of-band emissions	CONDUCTED	PASS
2.1046	Conducted Output Power	N/A		PASS
2.1055, 22.355,	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP	RADIATED	PASS
2.1053, 22.917(a),	Radiated Spurious and Harmonic Emissions	< 43 + log <sub>10</sub> (P[Watts]) for all out-of band emissions		PASS

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### **6. SAMPLE CALCULATION**

### **A. ERP Sample Calculation**

Mode	Ch.	/ Freq.	Measured	Substitude	Ant. Gain	C.L	Pol.	EF	RP
Wiode	channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	Ant. Gam	C.L	POI.	w	dBm
CDMA	384	836.52	-10.96	24.81	2.50	1.19	Н	0.41	26.12

### ERP = SubstitudeLEVEL(dBm) + Ant. Gain - CL(Cable Loss)

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test, the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (ERP).

### **B. Emission Designator**

### **CDMA Emission Designator**

#### **Emission Designator = 1M27F9W**

CDMA BW = 1.27 MHz (Measured at the 99% power bandwidth)

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

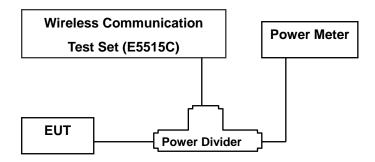
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### 7. TEST DATA

### 7.1 Conducted Output Power

A base station simulator was used to establish communication with EUT. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested under all configurations and the highest power is reported. Conducted Output Powers of EUT are reported below.



		SO2	SO2	SO55 SO55		TDSO
D		302	302	3033	3033	SO32
Band	Channel	RC1/1	RC3/3	RC1/1	RC3/3	RC3/3
		(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
	1013	24.07	24.08	24.11	24.06	24.01
CDMA	384	24.05	24.10	24.06	24.04	24.02
	777	24.03	24.00	24.08	24.01	24.00

(Maximum Conducted Output Powers)

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### 7.2 Effective Radiated Power Output(CDMA)

### (CDMA Mode)

	Ch.	/ Freq.	Measured	Substitude	Ant.			EF	RP
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	Gain	C.L	Pol.	W	dBm
	1013	824.70	-14.74	31.09	-8.31	1.17	V	0.14	21.61
CDMA	384	836.52	-13.79	32.70	-8.22	1.19	V	0.21	23.29
	777	848.31	-14.29	32.84	-8.13	1.20	V	0.22	23.51

Note: Standard batteries are the only options for this phone

#### **NOTES:**

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded. This device was tested under all configurations and the highest power is reported.

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### 7.3 Radiated Spurious Emissions(CDMA Mode)

■ MEASURED OUTPUT POWER: 23.51 dBm = 0.224 W

■ MODULATION SIGNAL: CDMA
 ■ DISTANCE: 3 meters
 ■ LIMIT: - (43 + 10 log10 (W)) = -36.51 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain	Substitute  Level  [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,649.40	-50.48	7.09	-61.01	1.73	V	-55.65	-79.16
1013	2,474.10	-45.05	8.12	-52.16	2.28	V	-46.32	-69.83
	3,298.80	-52.29	9.72	-59.87	2.57	V	-52.72	-76.23
	1,673.04	-48.56	7.23	-59.32	1.79	٧	-53.88	-77.39
384	2,509.56	-46.58	8.14	-53.71	2.33	>	-47.90	-71.41
	3,346.08	-54.11	9.99	-62.14	2.66	٧	-54.81	-78.32
	1,696.62	-46.27	7.41	-56.88	1.83	>	-51.30	-74.81
777	2,544.93	-46.16	8.21	-53.44	2.34	>	-47.57	-71.08
	3,393.24	-50.54	9.91	-58.17	2.85	٧	-51.11	-74.62

NOTES: Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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# **7.4 Frequency stability / variation of ambient temperature 7.4.1 FREQUENCY STABILITY (CDMA)**

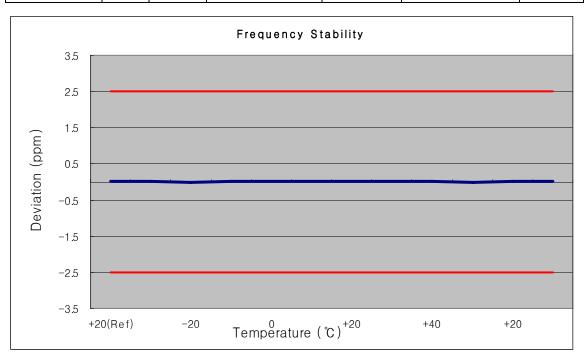
OPERATING FREQUENCY: 836,520,000 Hz

CHANNEL: <u>384</u>

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	836 520 008	7.87	0.000 001	0.009
100%		-30	836 520 013	13.16	0.000 002	0.016
100%		-20	836 519 998	-2.09	0.000 000	-0.002
100%		-10	836 520 018	18.28	0.000 002	0.022
100%	3.700	0	836 520 009	8.53	0.000 001	0.010
100%	3.700	+10	836 520 005	4.95	0.000 001	0.006
100%		+20	836 520 001	1.28	0.000 000	0.002
100%		+30	836 520 012	11.65	0.000 001	0.014
100%		+40	836 520 002	2.04	0.000 000	0.002
100%		+50	836 519 997	-3.16	0.000 000	-0.004
115%	4.255	+20	836 520 015	15.20	0.000 002	0.018
Batt. Endpoint	3.400	+20	836 520 003	3.11	0.000 000	0.004



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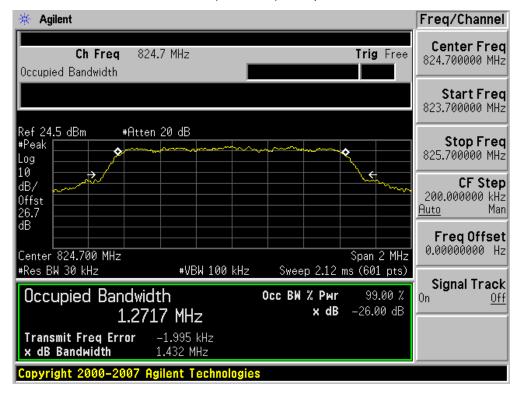


## 8. TEST PLOTS

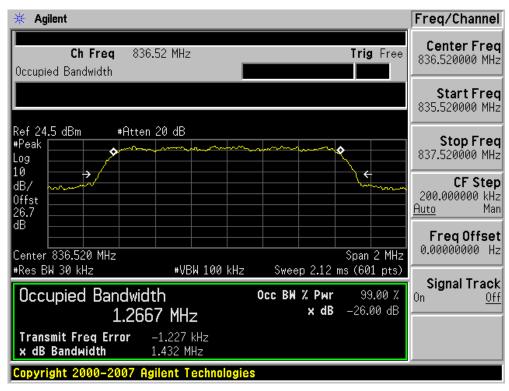
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### ■ CDMA MODE (1013 CH.) Occupied Bandwidth



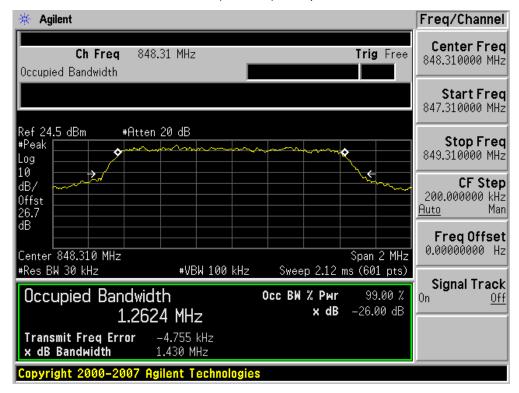
### ■ CDMA MODE (384 CH.) Occupied Bandwidth



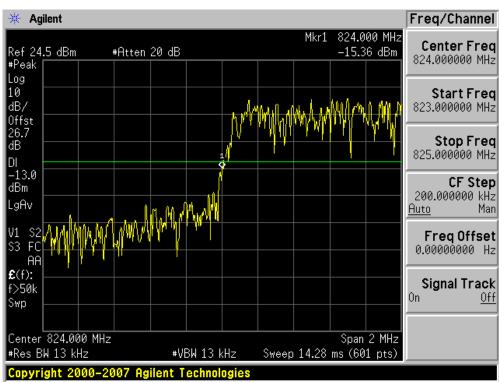
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### ■ CDMA MODE (777 CH.) Occupied Bandwidth



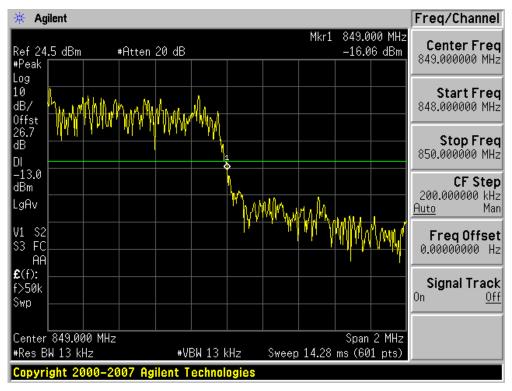
### ■ CDMA MODE (1013 CH.) Block Edge



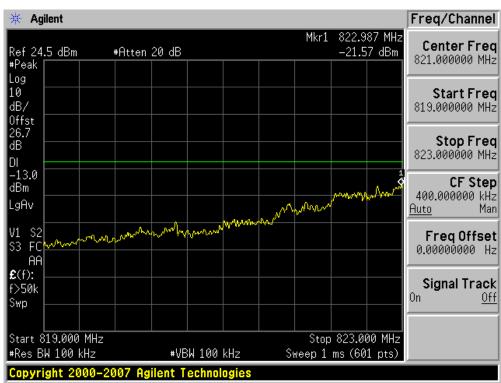
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### ■ CDMA MODE (777 CH.) Block Edge



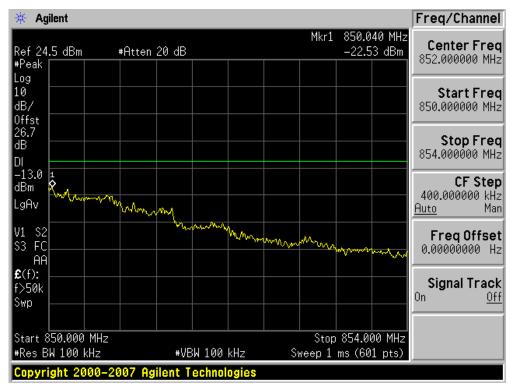
### ■ CDMA MODE (1013 CH.) 4MHz Span



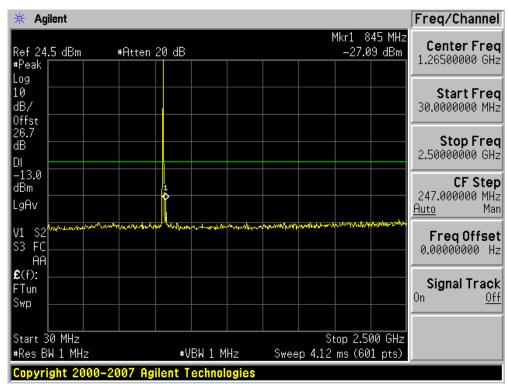
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### ■ CDMA MODE (777 CH.) 4MHz Span



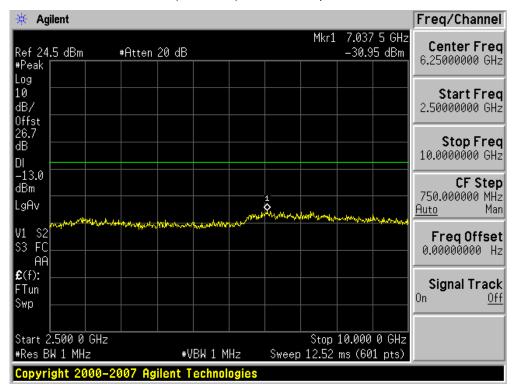
### ■ CDMA MODE (1013 CH.) Conducted Spurious Emissions 1



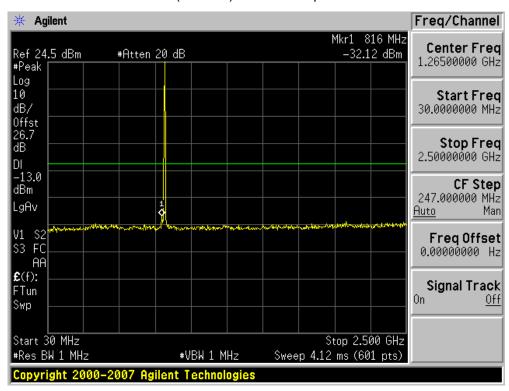
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### ■ CDMA MODE (1013 CH.) Conducted Spurious Emissions 2



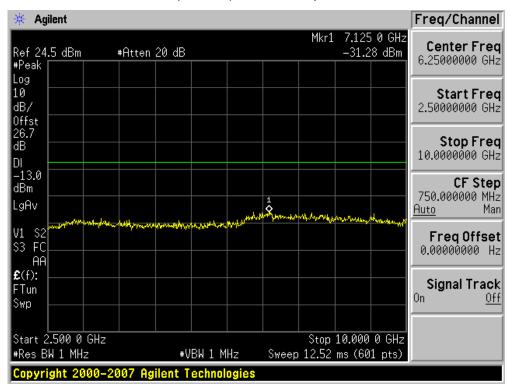
### ■ CDMA MODE (384 CH.) Conducted Spurious Emissions 1



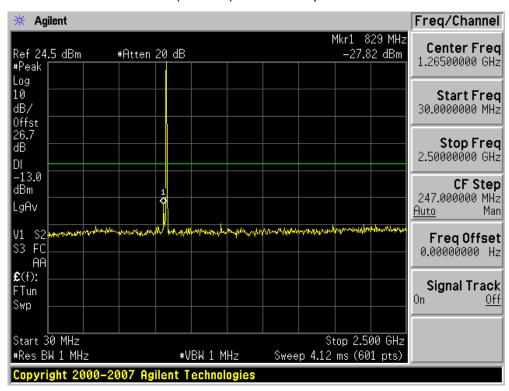
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#### ■ CDMA MODE (384 CH.) Conducted Spurious Emissions 2



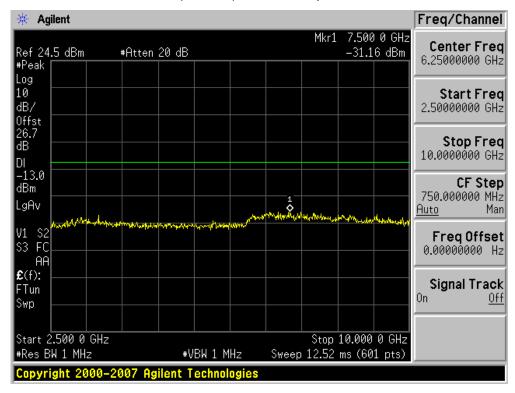
### ■ CDMA MODE (777 CH.) Conducted Spurious Emissions 1



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### ■ CDMA MODE (777 CH.) Conducted Spurious Emissions 2



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