



HCT.CO., LTD.

Product Compliance Division

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CERTIFICATE OF COMPLIANCE

FCC Part 24 & 22 Certification

Applicant Name:

UTStarcom Korea Technologies Ltd.

Date of Testing:

July 30, 2008

Test Site/Location:

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

Test Report No.: HCT-R08-104

HCT FRN: 0005866421

FCC ID : 06Y-GTX75

APPLICANT : UTStarcom Korea Technologies Ltd.

Application Type: Certification

FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)

FCC Rule Part(s): §22, §24, §2

EUT Type: Quad-Band GSM/WCDMA Phone with Bluetooth

Model(s): GTX75

Tx Frequency: 824.20 - 848.80 MHz (GSM850)

826.4~846.6 MHz (WCDMA835)

1 850.20 – 1 909.80 MHz (GSM1900)

1 852.4 – 1 907.6 MHz (WCDMA1900)

Rx Frequency: 869.20 - 893.80 MHz (GSM850)

871.4 - 891.6 (WCDMA835)

1 930.20 – 1 989.80 MHz (GSM1900)

1 932.4 – 1 987.6 MHz (WCDMA1900)

Max. RF Output Power: 0.687 W EIRP GSM850 (28.37 dBm) / 1.064 W EIRP GSM1900 (30.27 dBm)

0.361 W EIRP EDGE850 (25.57 dBm) / 0.859 W EIRP EDGE1900 (29.34 dBm)

0.311 W EIRP WCDMA850(24.93 dBm)/0.685 W EIRP WCDMA1900(28.36 dBm)

Emission Designator(s): 248KGXW (GSM850) 251KGXW (GSM1900)

242KG7W (GSM850EDGE) 252KG7W (GSM1900EDGE)

4M18F9W (WCDMA850) 4M18F9W (WCDMA850)

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)

Youn Seok Jung

Report prepared by

: Youn Seok Jung

Test engineer of RF Part

Sang Jun Lee

Approved by

: Sang Jun Lee

Manager of RF Part

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name: UTStarcom Korea Technologies Ltd.

Address: 26F, Trust Tower Bldg, 275-7, Yangjae 2-Dong, Seocho-Gu, Seoul, 137-739, Korea

FCC ID: 06Y-GTX75

Application Type: Certification

FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)

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EUT Type: Quad-Band GSM/WCDMA Phone with Bluetooth

Model(s): GTX75

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824.20 - 848.80 MHz (GSM850)
826.4~846.6 MHz (WCDMA835)
1 850.20 – 1 909.80 MHz (GSM1900)
1 852.4 – 1 907.6 MHz (WCDMA1900)

Rx Frequency:
869.20 - 893.80 MHz (GSM850)
871.4 - 891.6 (WCDMA835)
1 930.20 – 1 989.80 MHz (GSM1900)
1 932.4 – 1 987.6 MHz (WCDMA1900)

Max. RF Output Power:
0.687 W ERP GSM850 (28.37 dBm) / 1.064 W EIRP GSM1900 (30.27 dBm)
0.361 W ERP EDGE850 (25.57 dBm) / 0.859 W EIRP EDGE1900 (29.34 dBm)
0.311 W ERP WCDMA850(24.93 dBm)/0.685 W EIRP WCDMA1900(28.36 dBm)

Emission Designator(s):
248KGXW (GSM850) 251KGXW (GSM1900)
242KG7W (GSM850EDGE) 252KG7W (GSM1900EDGE)
4M18F9W (WCDMA850) 4M18F9W (WCDMA1900)

Antenna Specification
Manufacturer: Laird Technologies Korea
Antenna type: INTERNAL ANTENNA

Date(s) of Tests: July 30, 2008

Place of Tests: HCT.CO., LTD.
San 136-1 Ami-ri, Bubal-eup, Icheon-si,

Report Serial No HCT-R08-104

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2. INTRODUCTION

2.1. EUT DESCRIPTION

The UTStarcom Korea Technologies Ltd. GTX755 Quad-Band GSM/WCDMA Phone with Bluetooth consists of GSM850, GSM1900, GPRS Class10, EDGE, WCDMA850 and WCDMA1900

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

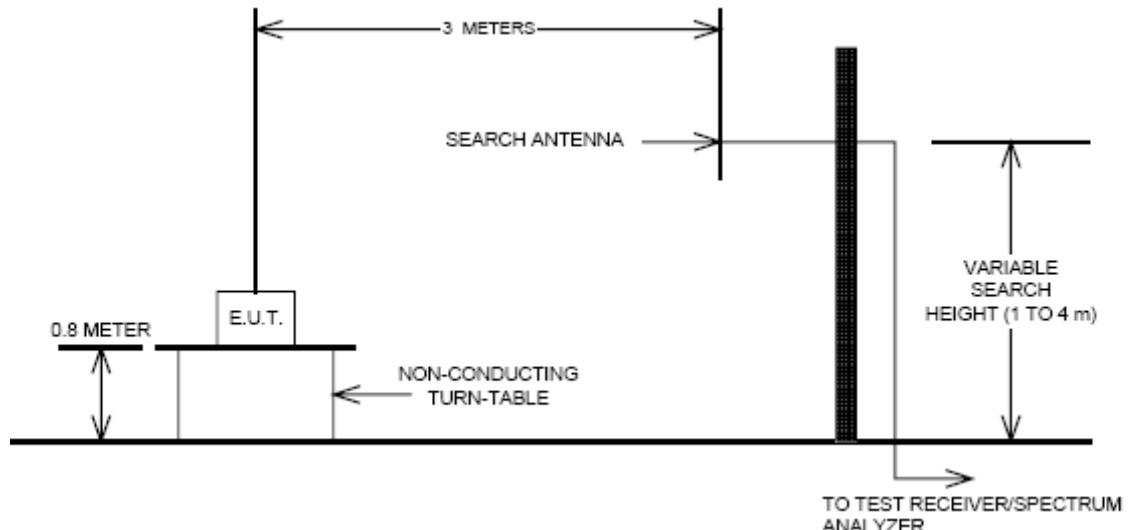
The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description 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.

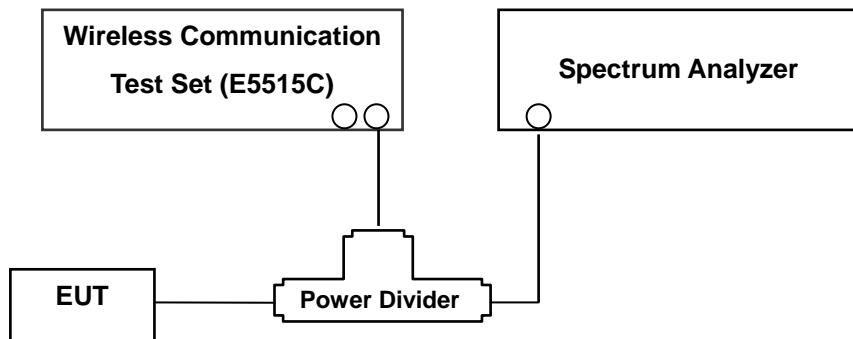
A wooden turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

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.

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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.

3.3 Spurious and Harmonic Emissions at Antenna Terminal.

Test Procedure

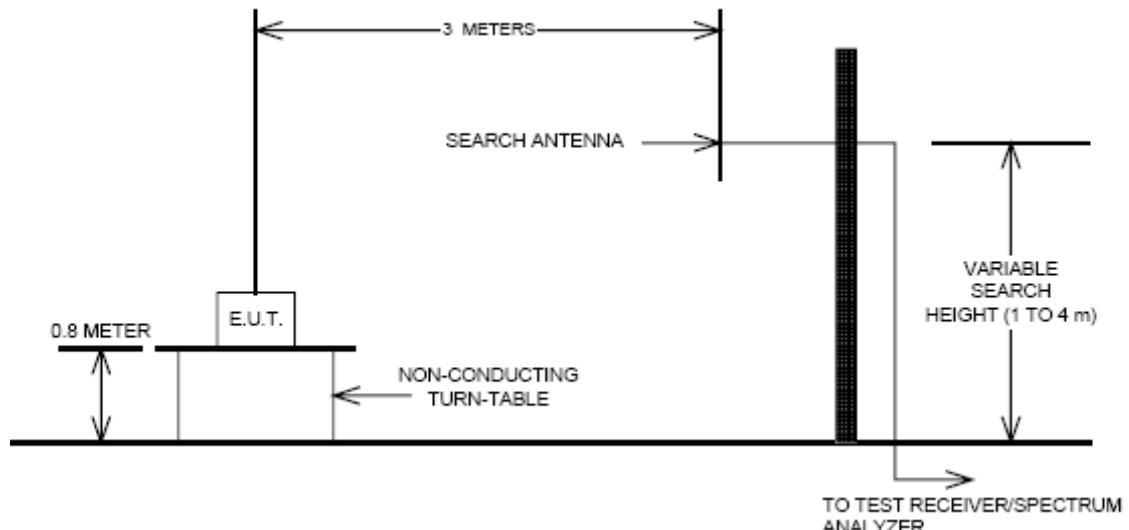
The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

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 10 MHz to 10 GHz. (GSM1900 Mode: 10 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.

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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 × 1.0 m × 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 10th harmonic of the fundamental frequency.

Test Procedure

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

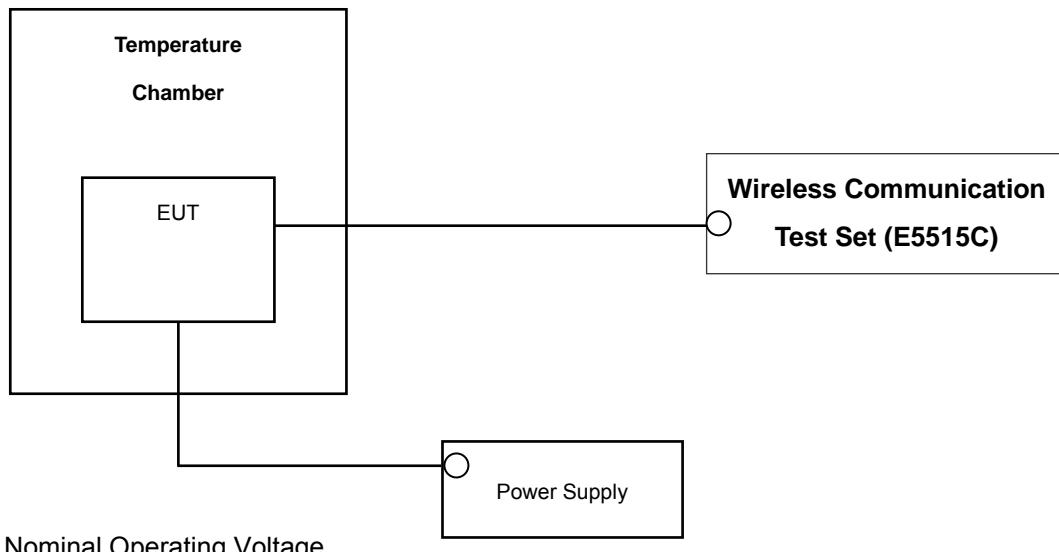
A wooden turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

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

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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 | 11/06/2008 |
| Agilent | E4419B/ Power Meter | MY41291386 | Annual | 11/05/2008 |
| Agilent | 8481A/ Power Sensor | MY41090870 | Annual | 11/05/2008 |
| Agilent | HP8901B/ Modulation Analyzer | 3438A05231 | Annual | 08/04/2008 |
| Agilent | 8903A/ Audio Analyzer | 2433A04322 | Annual | 08/04/2008 |
| Agilent | 8960 (E5515C)/ Base Station | GB444400269 | Annual | 02/11/2009 |
| Tescom | TC-3000/ Bluetooth Simulator | 3000A4900112 | Annual | 01/11/2009 |
| MITEQ | AMF-60-0010 1800-35-20P / AMP | 1200937 | Annual | 01/15/2009 |
| 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 | 778D/ Dual Directional Coupler | 16072 | Annual | 11/09/2008 |
| Agilent | 1506A/ Power Divider | 99441 | Annual | 11/10/2008 |
| Digital | EP-3010/ Power Supply | 3110117 | Annual | 12/29/2008 |
| Schwarzbeck | UHAP/ Dipole Antenna | 630 | Annual | 11/13/2008 |
| Schwarzbeck | UHAP/ Dipole Antenna | 605 | Annual | 11/13/2008 |
| R&S | HFH2-Z2/ Loop Antenna | 881056/070 | Annual | 12/11/2008 |
| Korea Engineering | KR-1005L / Chamber | KRAB07063-2CH | Annual | 01/05/2009 |
| Schwarzbeck | VULB9160/ TRILOG Antenna | 3150 | Biennial | 04/20/2009 |
| 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 | 01/08/2009 |

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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), 24.238(a) | Occupied Bandwidth | N/A | CONDUCTED | PASS |
| 2.1051, 22.917(a), 24.238(a) | Band Edge / Spurious and Harmonic Emissions at Antenna Terminal. | < $43 + \log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions | | PASS |
| 2.1046 | Conducted Output Power | N/A | | PASS |
| 2.1055, 22.355, 24.235 | Frequency stability / variation of ambient temperature | < 2.5 ppm | | PASS |
| 22.913(a)(2) 24.232(c) | Effective Radiated Power | < 7 Watts max. ERP | RADIATED | PASS |
| | Equivalent Isotropic Radiated Power | < 2 Watts max. EIRP | | PASS |
| 2.1053, 22.917(a), 24.238(a) | Radiated Spurious and Harmonic Emissions | < $43 + \log_{10}(P[\text{Watts}])$ for all out-of band emissions | | PASS |

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6. SAMPLE CALCULATION

A. ERP Sample Calculation

| Mode | Ch./ Freq. | | Measured Level(dBm) | Substitute LEVEL(dBm) | Ant. Gain | C.L | Pol. | ERP | |
|--------|------------|------------|------------------------|--------------------------|-----------|------|------|------|-------|
| | channel | Freq.(MHz) | | | | | | W | dBm |
| GSM850 | 251 | 848.80 | -7.58 | 28.59 | 2.83 | 1.20 | H | 1.05 | 30.22 |

ERP = SubstituteLEVEL(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

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

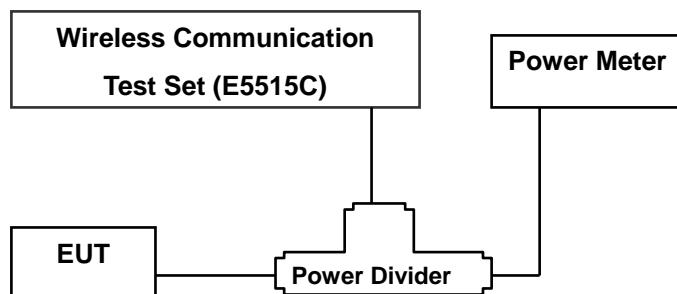
W = Combination (Audio/Data)

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7. TEST DATA

7.1 Conducted Output Power

A base station simulator was used to establish communication with the Pantech Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth. 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.



| Band | Channel | Voice | GPRS | | EDGE | |
|----------|---------|-----------|----------------------|----------------------|----------------------|----------------------|
| | | GSM (dBm) | GPRS 1 TX Slot (dBm) | GPRS 2 TX Slot (dBm) | EDGE 1 TX Slot (dBm) | EDGE 2 TX Slot (dBm) |
| GSM 850 | 128 | 31.68 | 31.69 | 31.68 | 26.88 | 26.88 |
| | 190 | 31.76 | 31.77 | 31.76 | 26.95 | 26.94 |
| | 251 | 31.74 | 31.76 | 31.75 | 26.90 | 26.92 |
| GSM 1900 | 512 | 29.82 | 29.84 | 29.82 | 25.92 | 25.90 |
| | 661 | 29.93 | 29.95 | 29.93 | 26.02 | 26.01 |
| | 810 | 29.84 | 29.87 | 29.86 | 25.93 | 25.93 |

(GSM Conducted Output Powers)

| Band | Channel | HSDPA INACTIVE | | HSDPA ACTIVE | |
|------------|---------|--------------------|--------------------|--------------------|--------------------|
| | | 12.2kbps RMC (dBm) | 12.2kbps AMR (dBm) | 12.2kbps RMC (dBm) | 12.2kbps AMR (dBm) |
| WCDMA 850 | 4132 | 23.67 | 23.80 | 23.36 | 23.27 |
| | 4183 | 23.67 | 23.81 | 23.37 | 23.28 |
| | 24.05 | 23.80 | 24.05 | 23.45 | 23.60 |
| WCDMA 1900 | 9262 | 23.40 | 23.55 | 23.01 | 23.09 |
| | 9400 | 23.32 | 23.48 | 22.93 | 23.02 |
| | 9538 | 23.49 | 23.45 | 23.21 | 23.19 |

(WCDMA Conducted Output Powers)

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7.2 Effective Radiated Power Output(GSM / WCDMA)\

(GSM850 Mode)

| Ch./ Freq. | | Measured Level(dBm) | Substitute LEVEL (dBm) | Ant. Gain | C.L | Pol. | ERP | |
|-------------|------------|------------------------|---------------------------|-----------|------|------|------|-------|
| channel | Freq.(MHz) | | | | | | W | dBm |
| 128 | 824.20 | -8.66 | 37.18 | -8.32 | 1.17 | H | 0.59 | 27.69 |
| 190 | 836.60 | -9.19 | 37.30 | -8.22 | 1.19 | H | 0.62 | 27.89 |
| 251 | 848.80 | -9.43 | 37.69 | -8.12 | 1.20 | H | 0.69 | 28.37 |
| EDGE 128 | 824.20 | -10.78 | 35.06 | -8.32 | 1.17 | H | 0.36 | 25.57 |

(WCDMA850 Mode)

| Ch./ Freq. | | Measured Level(dBm) | Substitute LEVEL (dBm) | Ant. Gain | C.L | Pol. | ERP | |
|------------|------------|------------------------|---------------------------|-----------|------|------|------|-------|
| channel | Freq.(MHz) | | | | | | W | dBm |
| 4132 | 826.40 | -14.75 | 20.66 | 2.24 | 1.17 | V | 0.15 | 21.73 |
| 4175 | 836.60 | -14.20 | 21.56 | 2.51 | 1.19 | V | 0.19 | 22.88 |
| 4233 | 846.60 | -12.74 | 23.36 | 2.77 | 1.20 | V | 0.31 | 24.93 |
| 4132 | 826.40 | -14.75 | 20.66 | 2.24 | 1.17 | V | 0.15 | 21.73 |

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 in WCDMA mode with HSDPA Inactive at 12.2 kbps AMR and TPC bits all set to "1" and in GSM mode and using a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

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7.3 Equivalent Isotropic Radiated Power (E.I.R.P.) (GSM / WCDMA)

(GSM1900 Mode)

| Ch./ Freq. | | Measured Level(dBm) | Substitute LEVEL (dBm) | Ant. Gain | C.L | Pol. | EIRP | |
|------------|------------|---------------------|------------------------|-----------|------|------|------|-------|
| channel | Freq.(MHz) | | | | | | W | dBm |
| 512 | 1,850.20 | -10.45 | 21.16 | 10.05 | 1.91 | H | 0.85 | 29.29 |
| 661 | 1,880.00 | -9.65 | 22.17 | 10.05 | 1.95 | H | 1.06 | 30.27 |
| 810 | 1,909.80 | -9.97 | 21.93 | 10.06 | 1.97 | H | 1.00 | 30.02 |
| EDGE 661 | 1,880.00 | -10.58 | 21.24 | 10.05 | 1.95 | H | 0.86 | 29.34 |

(WCDMA1900 Mode)

| Ch./ Freq. | | Measured Level(dBm) | Substitute LEVEL (dBm) | Ant. Gain | C.L | Pol. | EIRP | |
|------------|------------|---------------------|------------------------|-----------|------|------|------|-------|
| channel | Freq.(MHz) | | | | | | W | dBm |
| 9262 | 1,852.40 | -12.06 | 19.55 | 10.05 | 1.91 | H | 0.59 | 27.69 |
| 9400 | 1,880.00 | -12.69 | 19.13 | 10.05 | 1.95 | H | 0.53 | 27.23 |
| 9538 | 1,907.60 | -11.65 | 20.27 | 10.06 | 1.97 | H | 0.69 | 28.36 |

Note: Standard batteries are the only options for this phone

NOTES:

Equivalent Isotropic Radiated Power 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 Horn antenna was substituted in place of the EUT. This Horn 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 Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps AMR and TPC bits all set to "1" and in GSM mode and using a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

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7.4 Radiated Spurious Emissions(GSM850 Mode)

MEASURED OUTPUT POWER: 28.37dBm = 0.687 W

MODULATION SIGNAL: GSM850

DISTANCE: 3 meters

LIMIT: - (43 + 10 log₁₀ (W)) = -41.37 dBc

| Ch. | Freq.(MHz) | <u>Measured Level</u> [dBm] | Ant. Gain | <u>Substitute</u> <u>Level</u> [dBm] | C.L | Pol. | ERP (dBm) | dBc |
|-----|------------|--------------------------------|-----------|--|------|------|--------------|--------|
| 128 | 1,648.40 | -31.50 | 7.09 | -42.03 | 1.73 | H | -36.67 | -65.04 |
| | 2,472.60 | -28.92 | 8.12 | -36.03 | 2.28 | H | -30.19 | -58.56 |
| | 3,296.80 | -51.50 | 9.72 | -59.08 | 2.57 | H | -51.93 | -80.30 |
| 190 | 1,673.20 | -36.06 | 7.23 | -46.82 | 1.79 | H | -41.38 | -69.75 |
| | 2,509.80 | -34.67 | 8.14 | -41.80 | 2.33 | H | -35.99 | -64.36 |
| | 3,346.40 | -53.13 | 9.99 | -61.16 | 2.66 | H | -53.83 | -82.20 |
| 251 | 1,699.60 | -38.68 | 7.41 | -49.29 | 1.83 | H | -43.71 | -72.08 |
| | 2,549.40 | -41.60 | 8.21 | -48.88 | 2.34 | H | -43.01 | -71.38 |
| | 3,399.20 | -51.87 | 9.91 | -59.50 | 2.85 | H | -52.44 | -80.81 |

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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7.5 Radiated Spurious Emissions(GSM1900 Mode)

MEASURED OUTPUT POWER: 30.27 dBm =1.064 W

MODULATION SIGNAL: GSM1900

DISTANCE: 3 meters

LIMIT: - (43 + 10 log₁₀ (W)) = - 43.27 dBc

| Ch. | Freq.(MHz) | <u>Measured Level</u> [dBm] | Ant. Gain | <u>Substitute</u> <u>Level</u> [dBm] | C.L | Pol. | ERP (dBm) | dBc |
|-----|------------|--------------------------------|-----------|--|------|------|--------------|--------|
| 512 | 3,700.40 | -35.48 | 10.31 | -41.75 | 2.73 | H | -34.17 | -64.44 |
| | 5,550.60 | -49.79 | 10.55 | -51.37 | 3.60 | H | -44.42 | -74.69 |
| | 7,400.80 | -51.56 | 9.21 | -42.68 | 3.88 | H | -37.35 | -67.62 |
| 661 | 3,760.00 | -40.17 | 10.32 | -46.14 | 2.73 | H | -38.55 | -68.82 |
| | 5,640.00 | -51.36 | 10.60 | -53.01 | 3.60 | H | -46.01 | -76.28 |
| | 7,520.00 | -50.43 | 9.18 | -41.33 | 3.88 | H | -36.03 | -66.30 |
| 810 | 3,819.60 | -41.19 | 10.34 | -47.07 | 2.73 | H | -39.46 | -69.73 |
| | 5,729.40 | -50.85 | 10.65 | -52.16 | 3.60 | H | -45.11 | -75.38 |
| | 7,639.20 | -48.90 | 9.15 | -39.57 | 3.88 | H | -34.30 | -64.57 |

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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7.6 Radiated Spurious Emissions(WCDMA850 Mode)

MEASURED OUTPUT POWER: 24.93 dBm = 0.311 W

MODULATION SIGNAL: WCDMA850

DISTANCE: 3 meters

LIMIT: - (43 + 10 log₁₀ (W)) = - 37.93 dBc

| Ch. | Freq.(MHz) | <u>Measured Level</u> [dBm] | Ant. Gain | <u>Substitute Level</u> [dBm] | C.L | Pol. | ERP (dBm) | dBc |
|-------|------------|--------------------------------|-----------|----------------------------------|------|------|--------------|--------|
| 4,132 | 1,652.80 | -50.64 | 7.09 | -61.20 | 1.73 | H | -55.84 | -80.77 |
| | 2,479.20 | -46.19 | 8.12 | -53.31 | 2.28 | H | -47.47 | -72.40 |
| | 3,305.60 | -52.02 | 9.72 | -59.58 | 2.57 | H | -52.43 | -77.36 |
| 4,175 | 1,672.80 | -50.08 | 7.23 | -60.84 | 1.79 | H | -55.40 | -80.33 |
| | 2,509.20 | -50.20 | 8.14 | -57.33 | 2.33 | H | -51.52 | -76.45 |
| | 3,345.60 | -52.78 | 9.99 | -60.81 | 2.66 | H | -53.48 | -78.41 |
| 4,233 | 1,693.20 | -51.48 | 7.41 | -62.14 | 1.83 | H | -56.56 | -81.49 |
| | 2,539.80 | -51.83 | 8.21 | -59.09 | 2.34 | H | -53.22 | -78.15 |
| | 3,386.40 | -52.89 | 9.91 | -60.54 | 2.85 | H | -53.48 | -78.41 |

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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7.7 Radiated Spurious Emissions(WCDMA1900 Mode)

MEASURED OUTPUT POWER: 28.36 dBm = 0.685 W

MODULATION SIGNAL: WCDMA1900

DISTANCE: 3 meters

LIMIT: - (43 + 10 log₁₀ (W)) = - 41.36 dBc

| Ch. | Freq.(MHz) | <u>Measured Level</u> [dBm] | Ant. Gain | <u>Substitute Level</u> [dBm] | C.L | Pol. | ERP (dBm) | dBc |
|-------|------------|--------------------------------|-----------|----------------------------------|------|------|--------------|--------|
| 9,262 | 3,704.80 | -40.68 | 10.31 | -46.92 | 2.73 | H | -39.34 | -67.70 |
| | 5,557.20 | -55.94 | 10.56 | -57.55 | 3.60 | H | -50.59 | -78.95 |
| | 7,409.60 | -57.38 | 9.21 | -48.49 | 3.88 | H | -43.16 | -71.52 |
| 9,400 | 3,760.00 | -43.83 | 10.32 | -49.80 | 2.73 | H | -42.21 | -70.57 |
| | 5,640.00 | -55.60 | 10.60 | -57.25 | 3.60 | H | -50.25 | -78.61 |
| | 7,520.00 | -56.72 | 9.18 | -47.62 | 3.88 | H | -42.32 | -70.68 |
| 9,538 | 3,715.20 | -38.61 | 10.31 | -44.48 | 2.73 | H | -36.90 | -65.26 |
| | 5,722.80 | -55.37 | 10.64 | -56.70 | 3.60 | H | -49.66 | -78.02 |
| | 7,630.40 | -56.40 | 9.15 | -47.08 | 3.88 | H | -41.81 | -70.17 |

NOTES: Radiated Spurious Emission Measurements at 3 meters by Substitution Method

according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

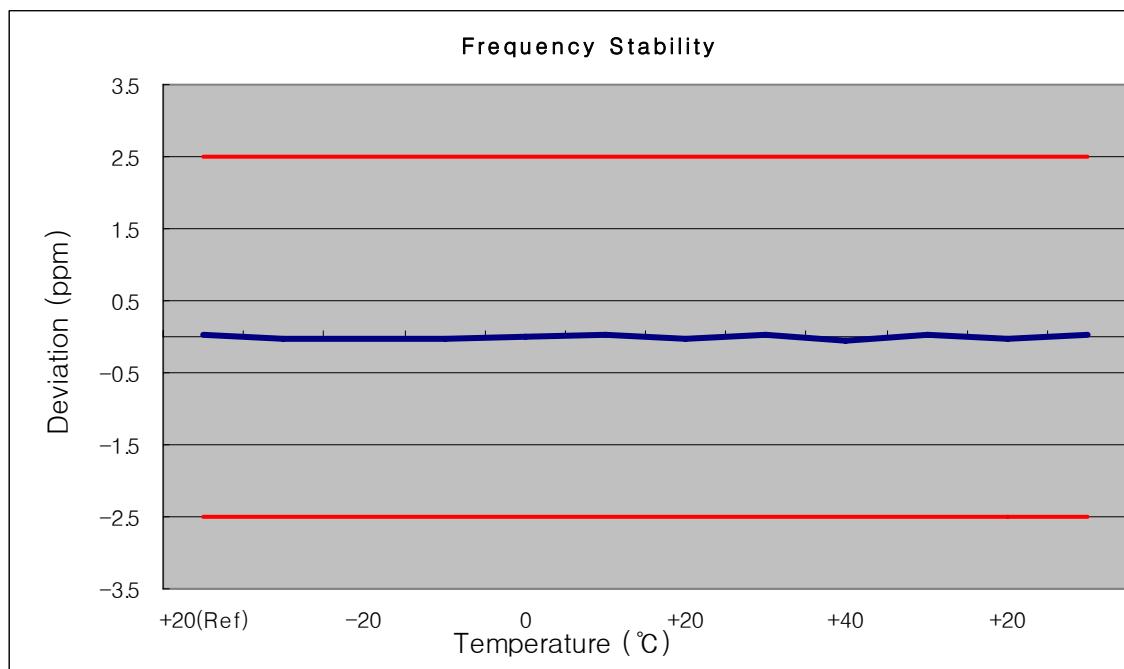
| FCC CERTIFICATION REPORT | | | | | www.hct.co.kr |
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7.8 Frequency stability / variation of ambient temperature

7.8.1 FREQUENCY STABILITY (GSM850)

OPERATING FREQUENCY: 836,600,000 Hz
 CHANNEL: 190
 REFERENCE VOLTAGE: 3.7 VDC
 DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (Hz) | Frequency Error (Hz) | Deviation (%) | ppm |
|----------------|----------------|---------------|-------------------|-------------------------|------------------|--------|
| 100% | 3.700 | +20(Ref) | 836 600 012 | 12 | 0.000 001 | 0.014 |
| 100% | | -30 | 836 599 987 | -13 | -0.000 002 | -0.016 |
| 100% | | -20 | 836 599 983 | -17 | -0.000 002 | -0.020 |
| 100% | | -10 | 836 599 987 | -13 | -0.000 002 | -0.016 |
| 100% | | 0 | 836 599 989 | -11 | -0.000 001 | -0.013 |
| 100% | | +10 | 836 600 023 | 23 | 0.000 003 | 0.027 |
| 100% | | +20 | 836 599 969 | -31 | -0.000 004 | -0.037 |
| 100% | | +30 | 836 600 026 | 26 | 0.000 003 | 0.031 |
| 100% | | +40 | 836 599 960 | -40 | -0.000 005 | -0.048 |
| 100% | | +50 | 836 600 024 | 24 | 0.000 003 | 0.029 |
| 115% | 4.255 | +20 | 836 599 968 | -32 | -0.000 004 | -0.038 |
| Batt. Endpoint | 3.400 | +20 | 836 600 019 | 19 | 0.000 002 | 0.023 |

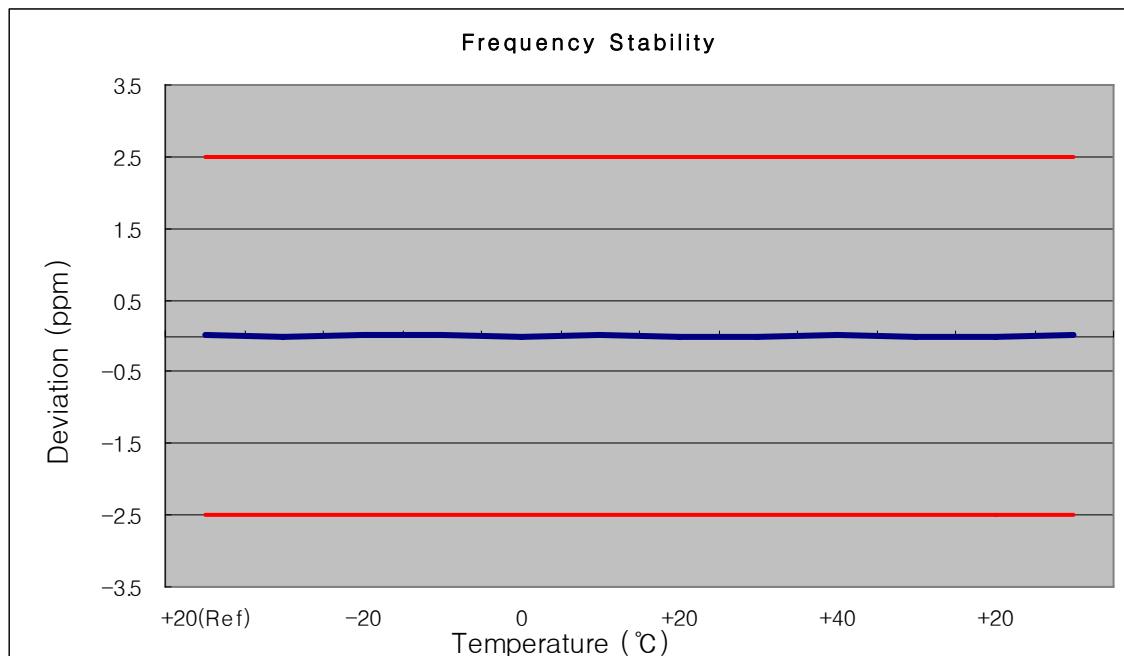


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7.8.2 FREQUENCY STABILITY (GSM1900)

OPERATING FREQUENCY: 1880,000,000 Hz
 CHANNEL: 661
 REFERENCE VOLTAGE: 3.7 VDC
 DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (Hz) | Frequency Error (Hz) | Deviation (%) | ppm |
|----------------|-------------|------------|----------------|----------------------|---------------|--------|
| 100% | 3.700 | +20(Ref) | 1880 000 011 | 11 | 0.000 001 | 0.006 |
| 100% | | -30 | 1879 999 974 | -26 | -0.000 001 | -0.014 |
| 100% | | -20 | 1880 000 016 | 16 | 0.000 001 | 0.009 |
| 100% | | -10 | 1880 000 023 | 23 | 0.000 001 | 0.012 |
| 100% | | 0 | 1879 999 984 | -16 | -0.000 001 | -0.009 |
| 100% | | +10 | 1880 000 013 | 13 | 0.000 001 | 0.007 |
| 100% | | +20 | 1879 999 966 | -34 | -0.000 002 | -0.018 |
| 100% | | +30 | 1879 999 978 | -22 | -0.000 001 | -0.012 |
| 100% | | +40 | 1880 000 031 | 31 | 0.000 002 | 0.016 |
| 100% | | +50 | 1879 999 975 | -25 | -0.000 001 | -0.013 |
| 115% | 4.255 | +20 | 1879 999 981 | -19 | -0.000 001 | -0.010 |
| Batt. Endpoint | 3.400 | +20 | 1880 000 024 | 24 | 0.000 001 | 0.013 |

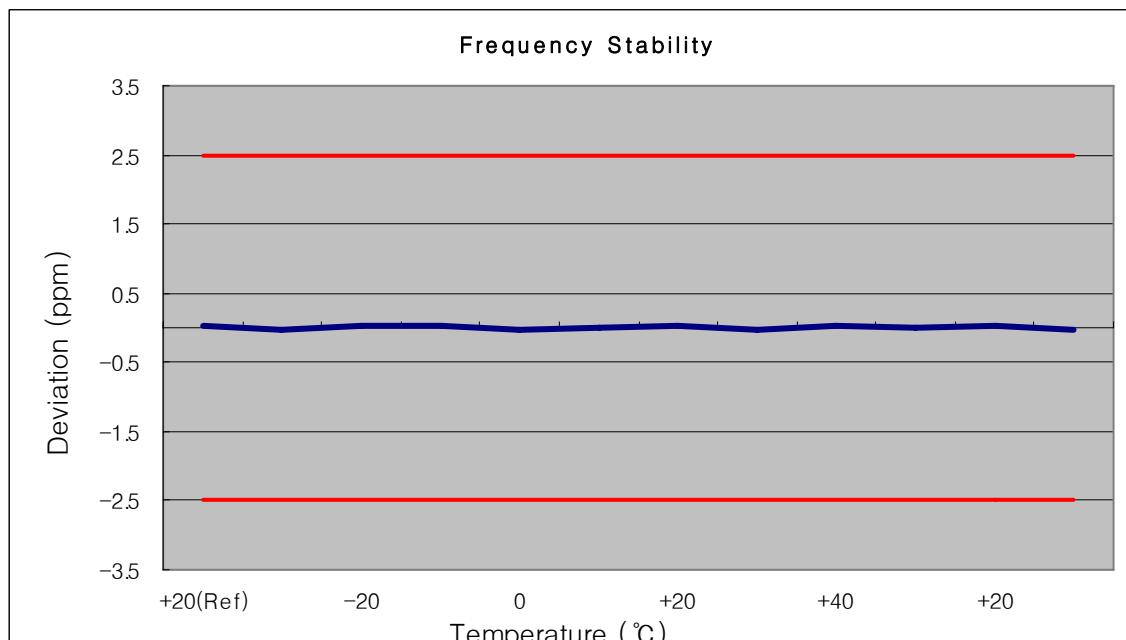


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7.8.3 FREQUENCY STABILITY (WCDMA850)

OPERATING FREQUENCY: 836,600,000 Hz
 CHANNEL: 4183
 REFERENCE VOLTAGE: 3.7 VDC
 DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

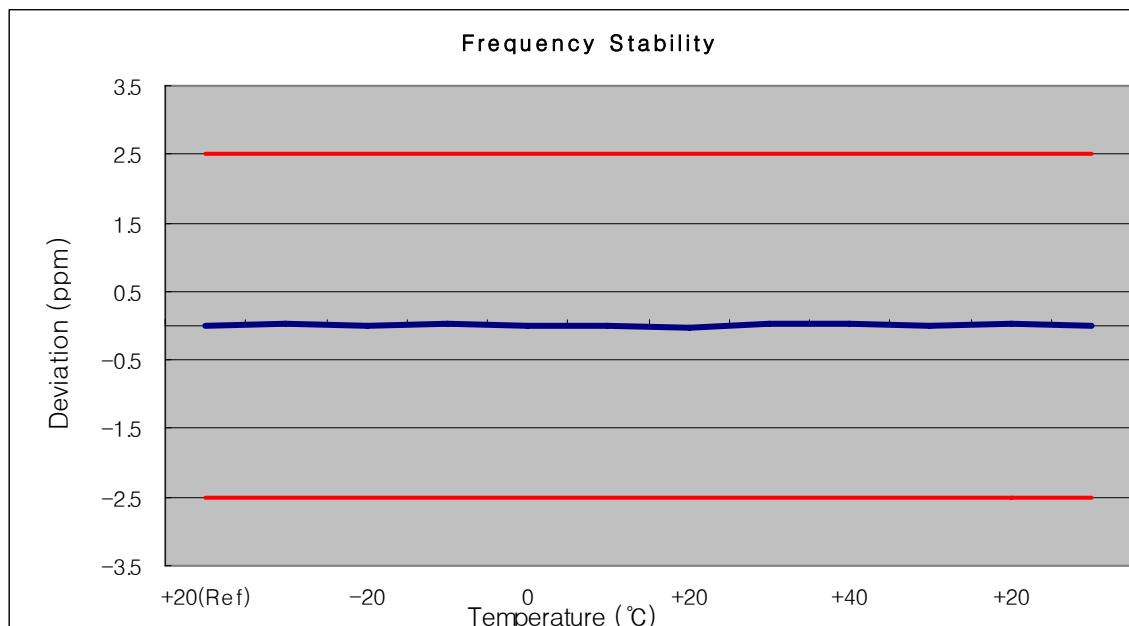
| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (Hz) | Frequency Error (Hz) | Deviation (%) | ppm |
|----------------|-------------|------------|----------------|----------------------|---------------|--------|
| 100% | 3.700 | +20(Ref) | 836 600 026 | 26 | 0.000 031 | 0.031 |
| 100% | | -30 | 836 599 977 | -23 | -0.000 027 | -0.027 |
| 100% | | -20 | 836 600 013 | 13 | 0.000 016 | 0.016 |
| 100% | | -10 | 836 600 026 | 26 | 0.000 031 | 0.031 |
| 100% | | 0 | 836 599 976 | -24 | -0.000 029 | -0.029 |
| 100% | | +10 | 836 599 989 | -11 | -0.000 013 | -0.013 |
| 100% | | +20 | 836 600 023 | 23 | 0.000 027 | 0.027 |
| 100% | | +30 | 836 599 976 | -24 | -0.000 029 | -0.029 |
| 100% | | +40 | 836 600 014 | 14 | 0.000 017 | 0.017 |
| 100% | | +50 | 836 599 991 | -9 | -0.000 011 | -0.011 |
| 115% | 4.255 | +20 | 836 600 017 | 17 | 0.000 020 | 0.020 |
| Batt. Endpoint | 3.400 | +20 | 836 599 973 | -27 | -0.000 032 | -0.032 |



7.8.4 FREQUENCY STABILITY (WCDMA1900)

OPERATING FREQUENCY: 1,880,000,000 Hz
 CHANNEL: 9400
 REFERENCE VOLTAGE: 3.7 VDC
 DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (Hz) | Frequency Error (Hz) | Deviation (%) | ppm |
|----------------|-------------|------------|----------------|----------------------|---------------|--------|
| 100% | 3.700 | +20(Ref) | 1,879,999,992 | -8 | 0.000000 | -0.004 |
| 100% | | -30 | 1,880,000,034 | 34 | 0.000002 | 0.018 |
| 100% | | -20 | 1,880,000,024 | 24 | 0.000001 | 0.013 |
| 100% | | -10 | 1,880,000,031 | 31 | 0.000002 | 0.016 |
| 100% | | 0 | 1,879,999,984 | -16 | -0.000001 | -0.009 |
| 100% | | +10 | 1,879,999,983 | -17 | -0.000001 | -0.009 |
| 100% | | +20 | 1,879,999,966 | -34 | -0.000002 | -0.018 |
| 100% | | +30 | 1,880,000,037 | 37 | 0.000002 | 0.020 |
| 100% | | +40 | 1,880,000,031 | 31 | 0.000002 | 0.016 |
| 100% | | +50 | 1,880,000,011 | 11 | 0.000001 | 0.006 |
| 115% | 4.255 | +20 | 1,880,000,029 | 29 | 0.000002 | 0.015 |
| Batt. Endpoint | 3.400 | +20 | 1,880,000,012 | 12 | 0.000001 | 0.006 |





8. TEST PLOTS

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■ GSM850 MODE (128 CH.) Occupied Bandwidth



■ GSM850 MODE (190 CH.) Occupied Bandwidth



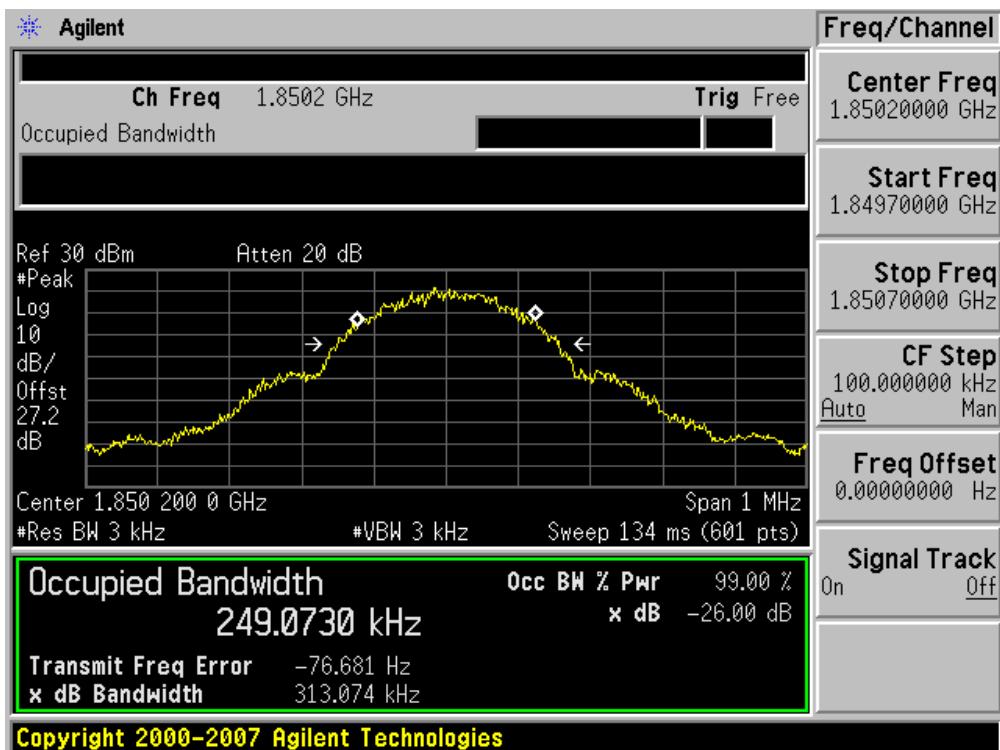
■ GSM850 MODE (251 CH.) Occupied Bandwidth



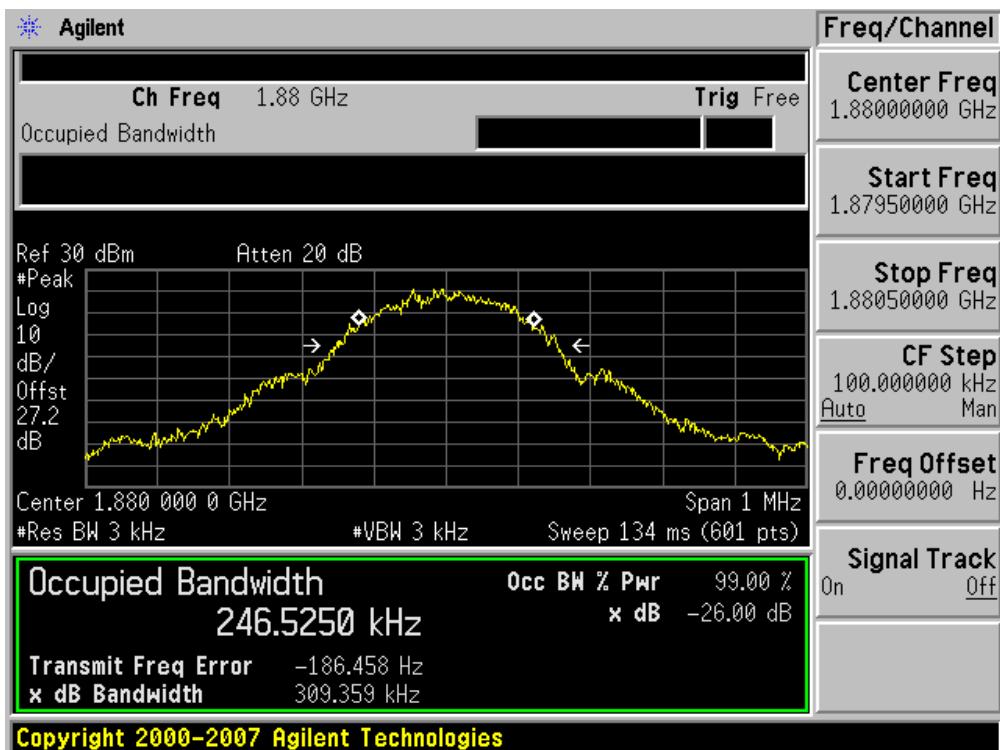
■ GSM850 EDGE (251 CH.) Occupied Bandwidth



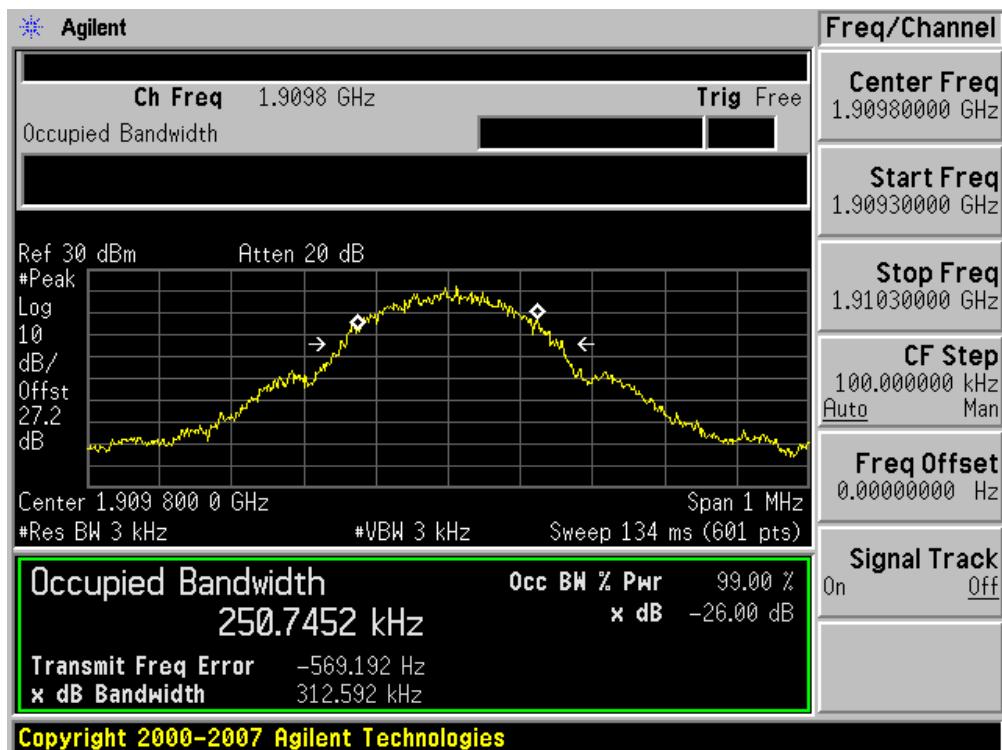
■ GSM1900 MODE (512 CH.) Occupied Bandwidth



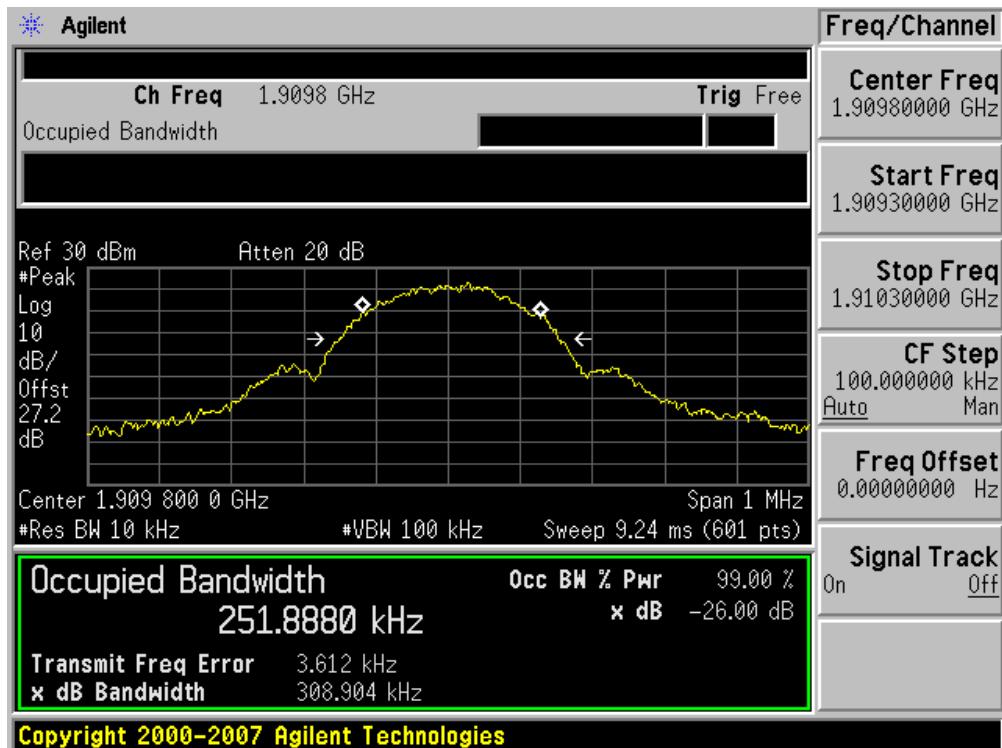
■ GSM1900 MODE (661 CH.) Occupied Bandwidth



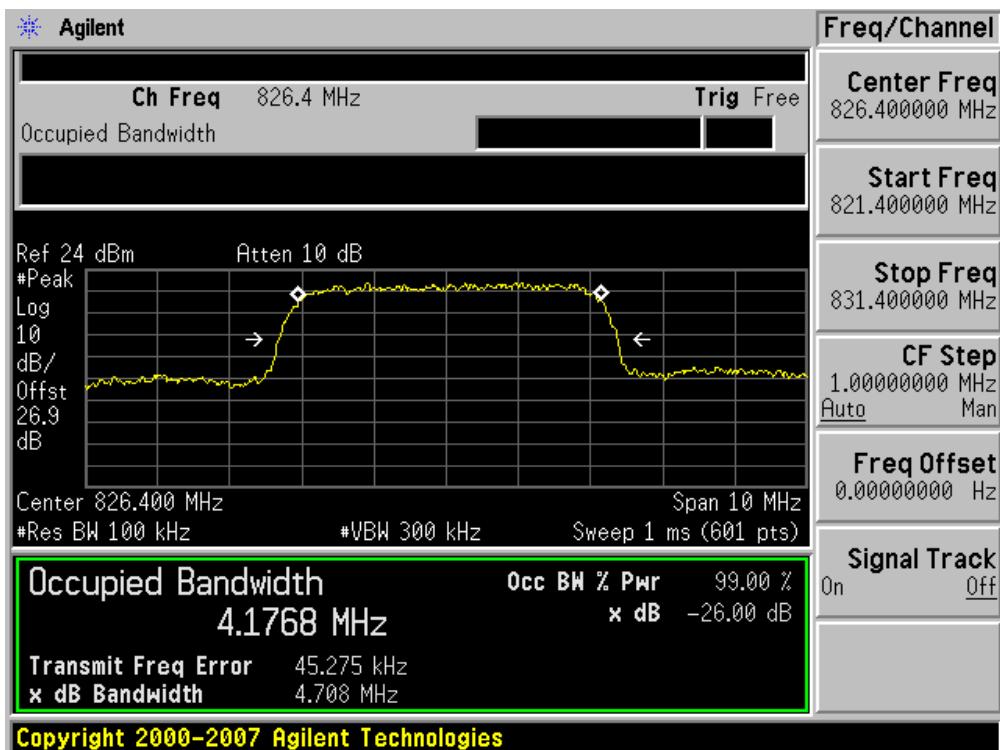
■ GSM1900 MODE (810 CH.) Occupied Bandwidth



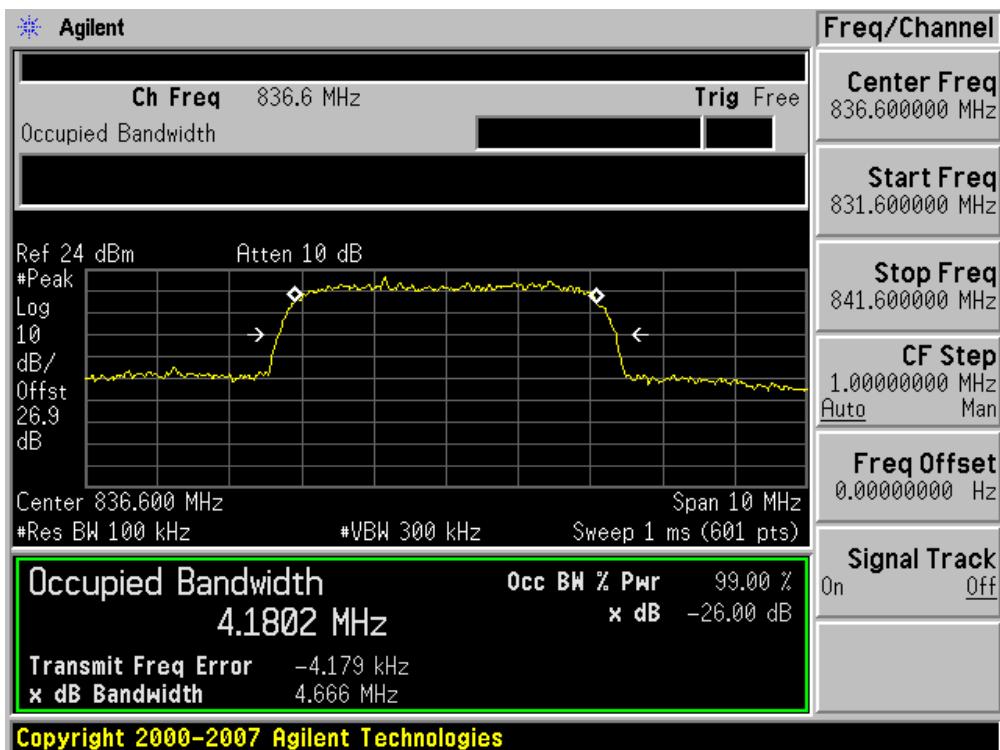
■ GSM1900 EDGE (810 CH.) Occupied Bandwidth



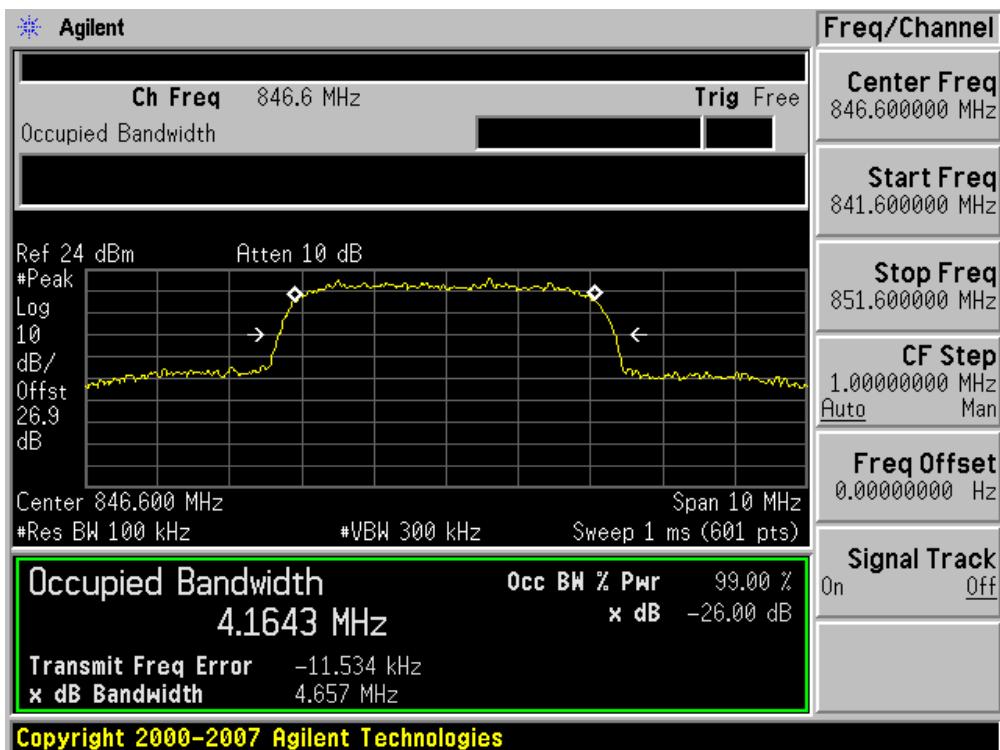
■ WCDMA850 MODE (4132 CH.) Occupied Bandwidth



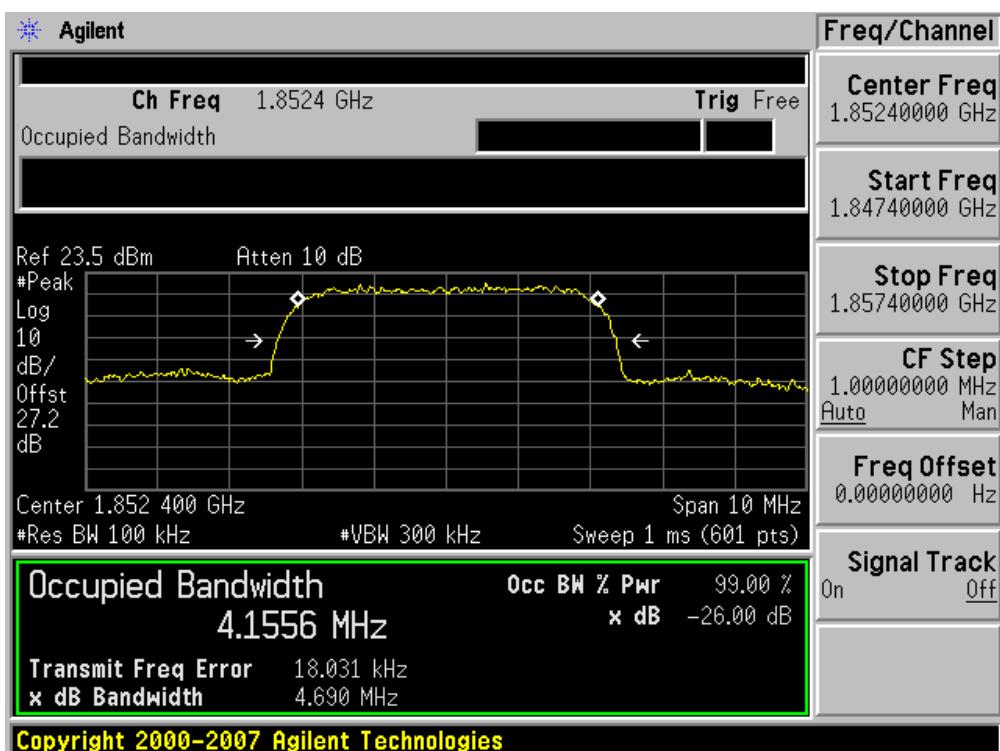
■ WCDMA850 MODE (4183 CH.) Occupied Bandwidth



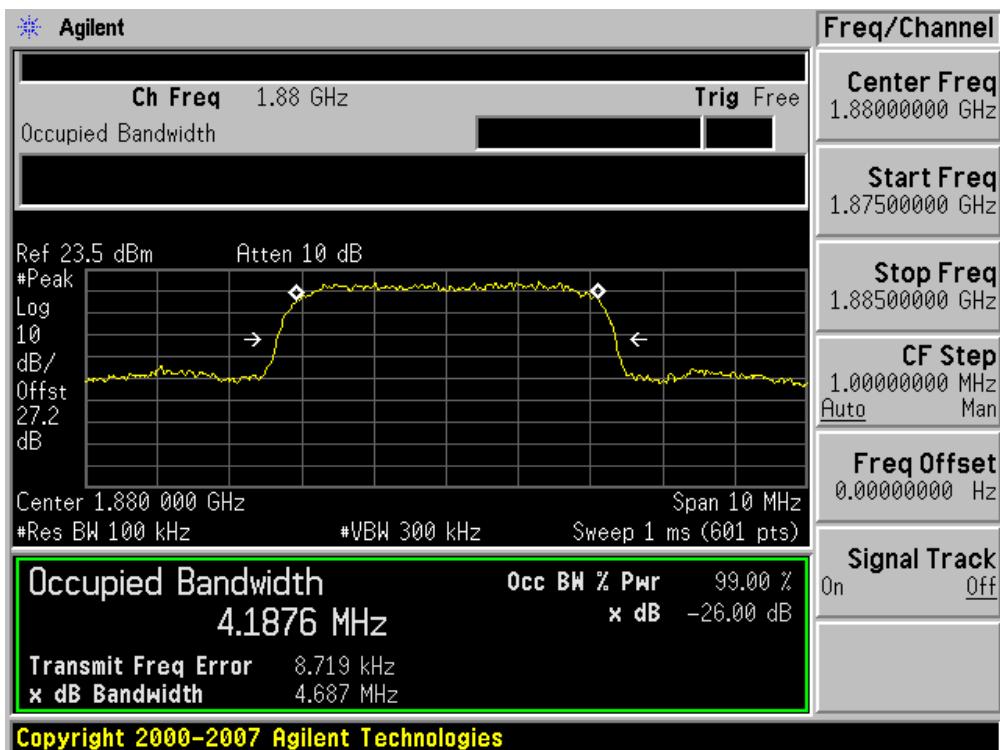
■ WCDMA850MODE (4233 CH.) Occupied Bandwidth



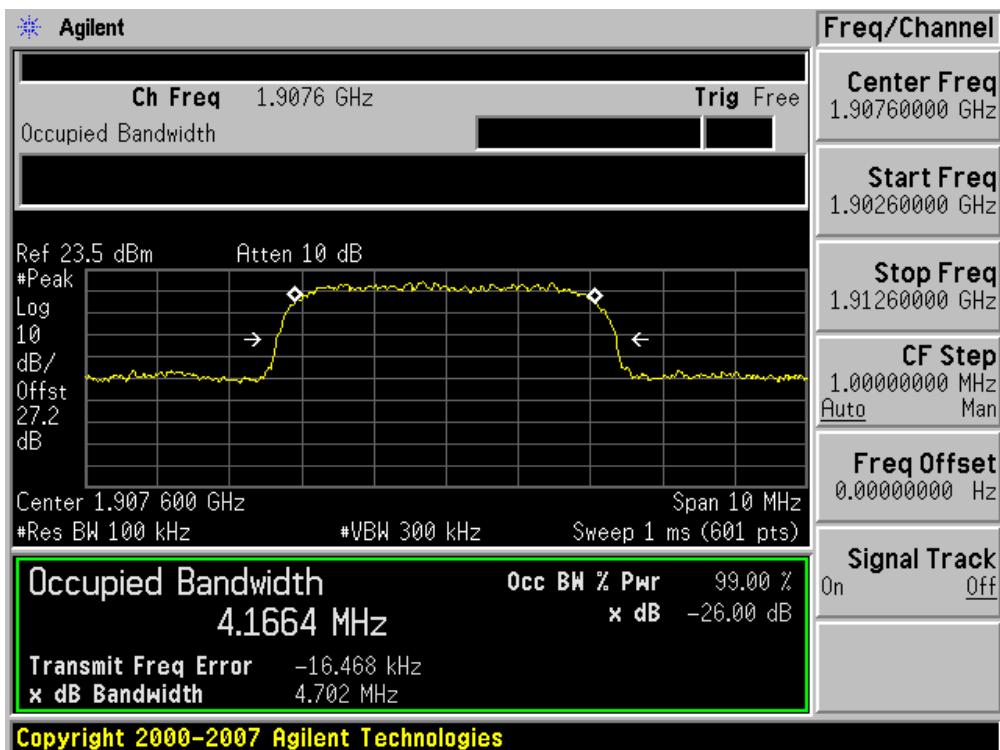
■ WCDMA 1900 MODE (9262 CH.) Occupied Bandwidth



■ WCDMA 1900 MODE (9400 CH.) Occupied Bandwidth



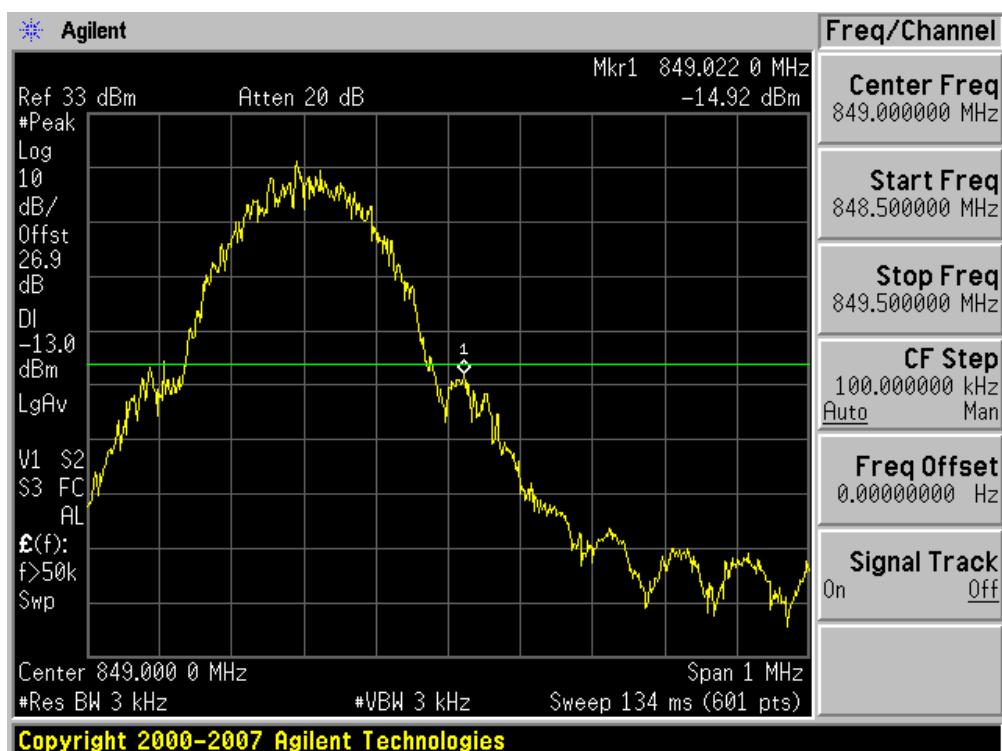
■ WCDMA 1900 MODE (9538 CH.) Occupied Bandwidth



■ GSM850 MODE (128 CH.) Block Edge

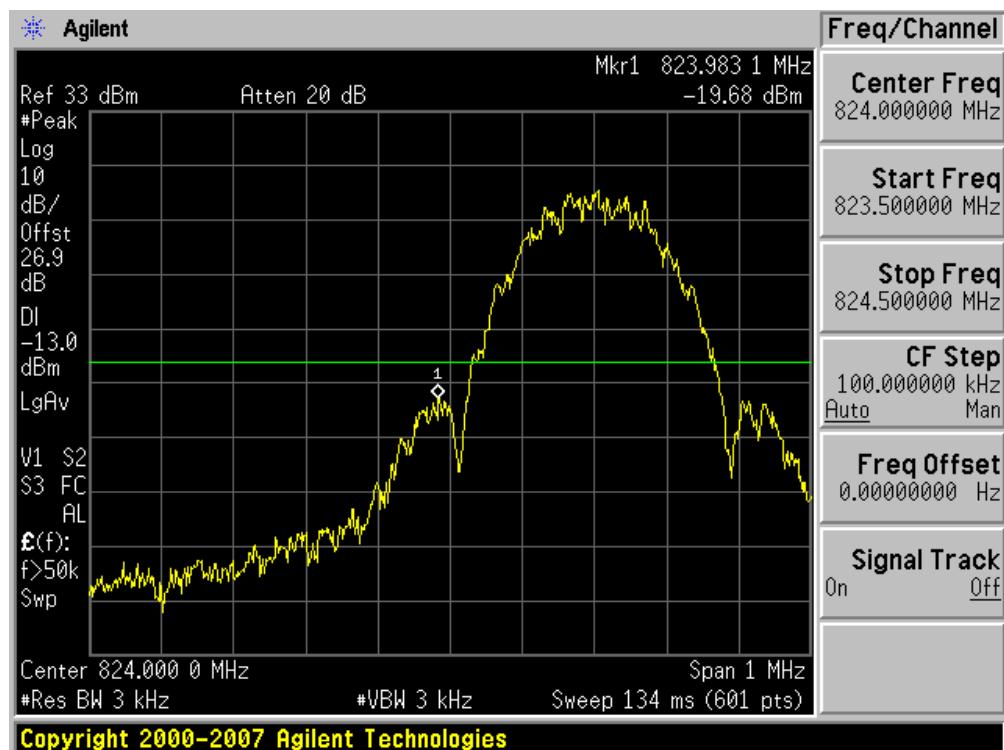


■ GSM850 MODE (251 CH.) Block Edge



| | | | |
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■ EDGE MODE (128 CH.) Block Edge



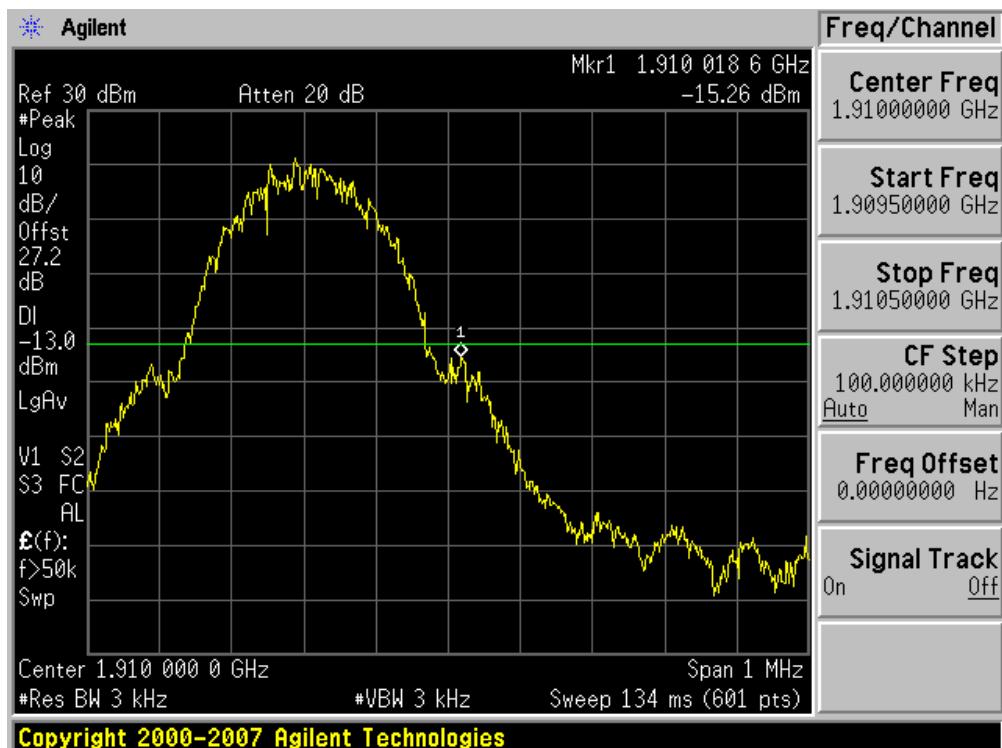
■ EDGE MODE (251 CH.) Block Edge



■ GSM1900 MODE (512 CH.) Block Edge



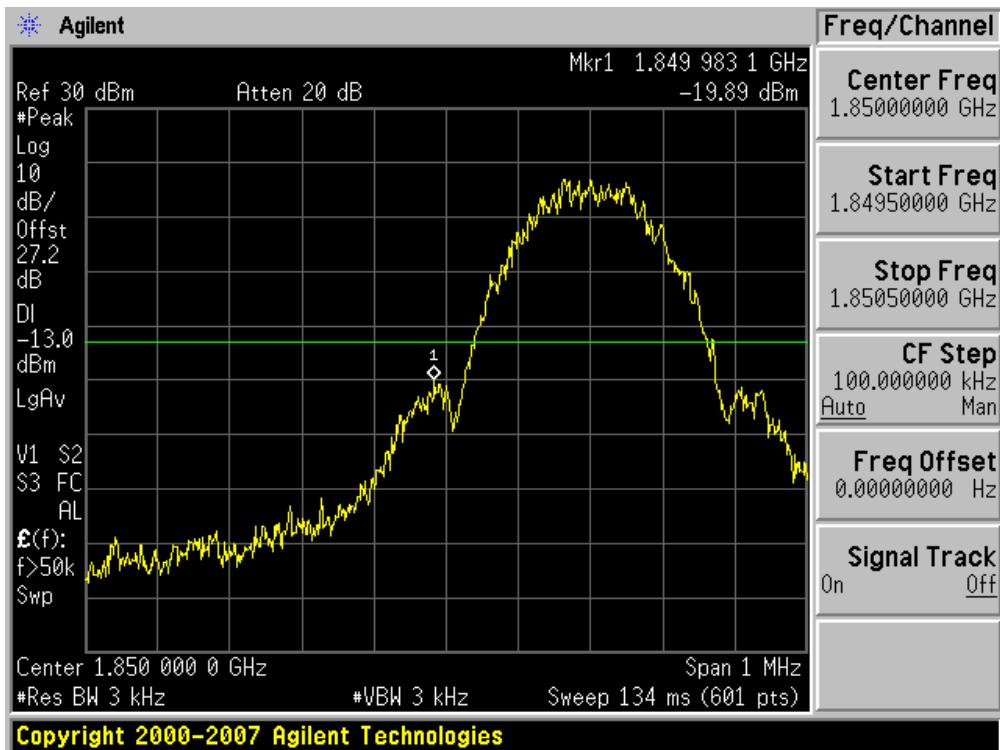
■ GSM1900 MODE (810 CH.) Block Edge



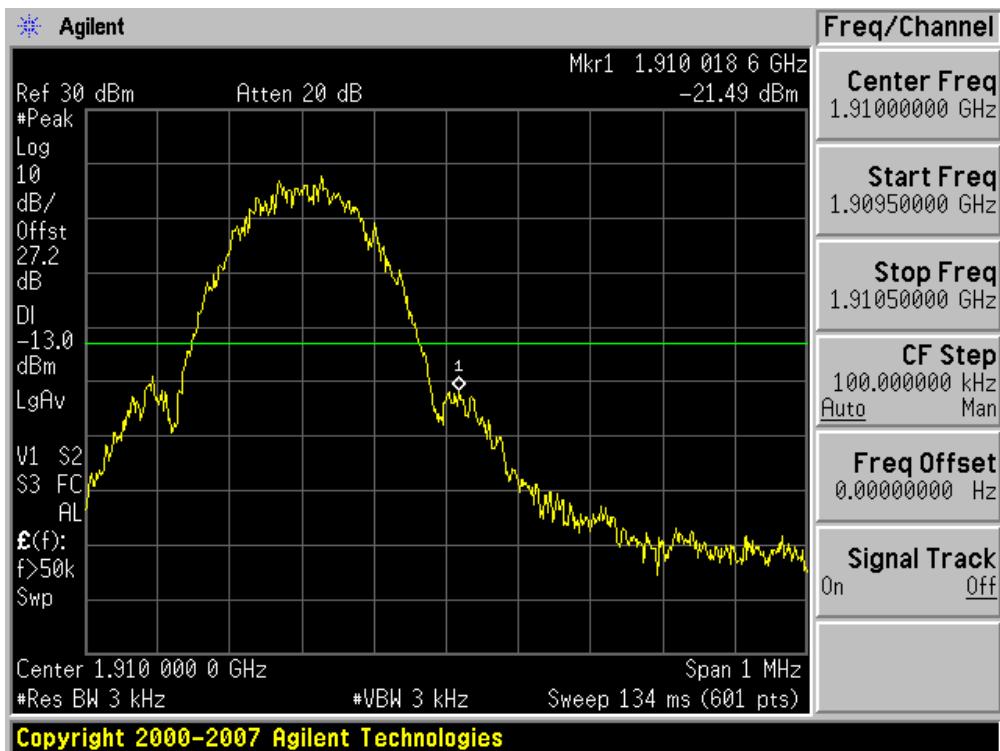
FCC CERTIFICATION REPORT

| | | | | |
|-----------------|--------------|--|-----------|--|
| Test Report No. | Test Dates: | EUT Type: | FCC ID: | www.hct.co.kr |
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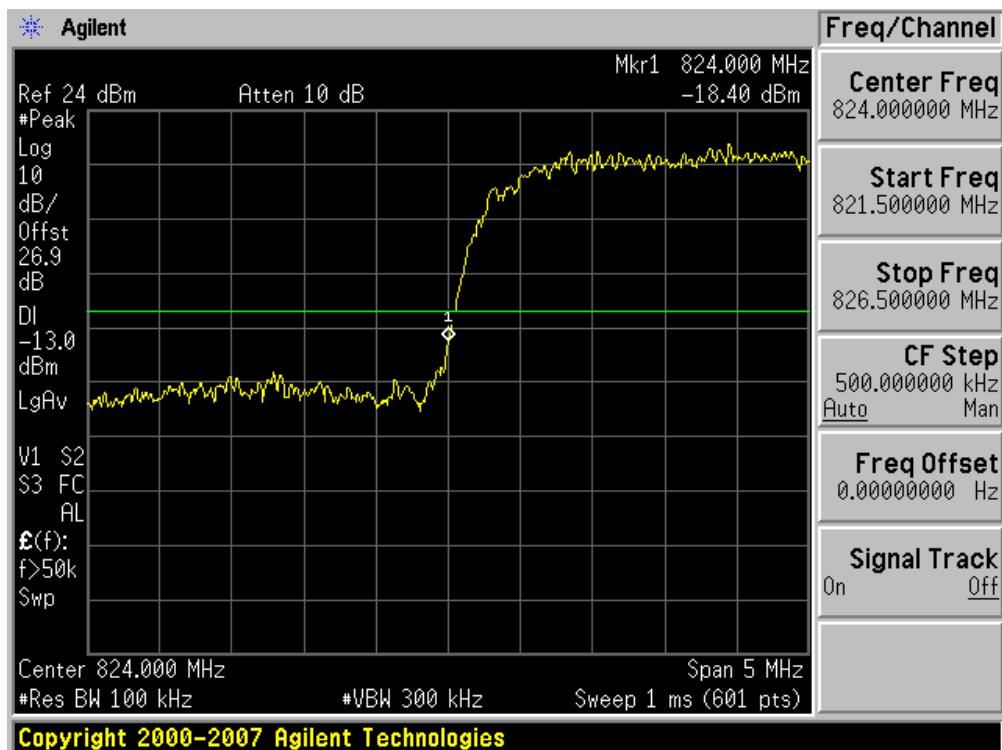
■ EDGE MODE (512 CH.) Block Edge



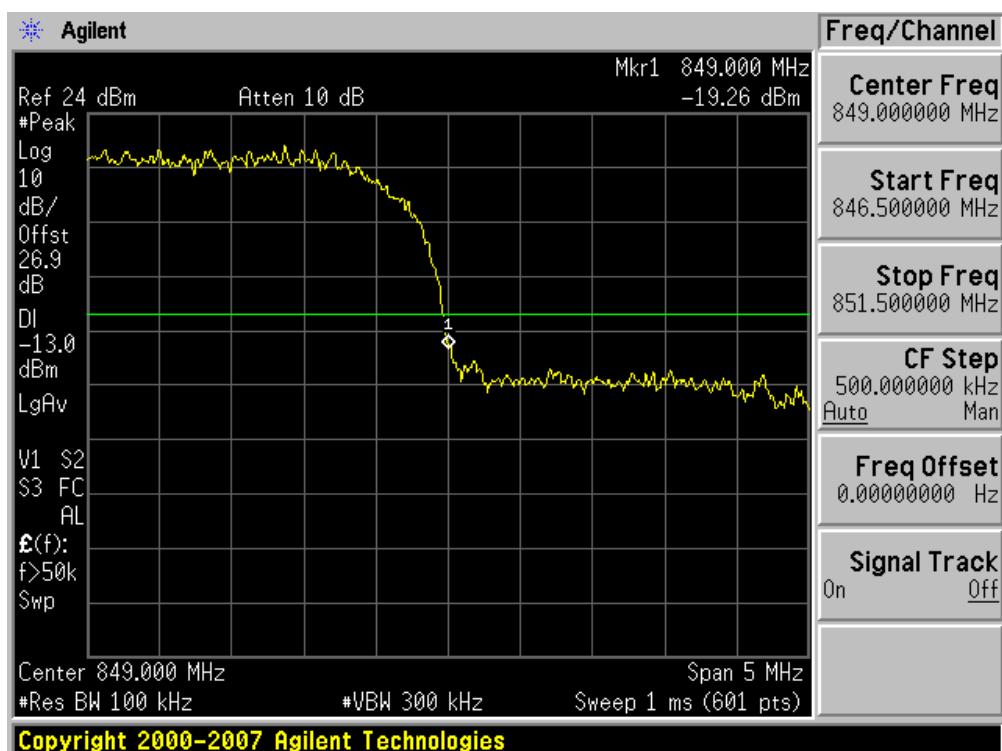
■ EDGE MODE (810 CH.) Block Edge



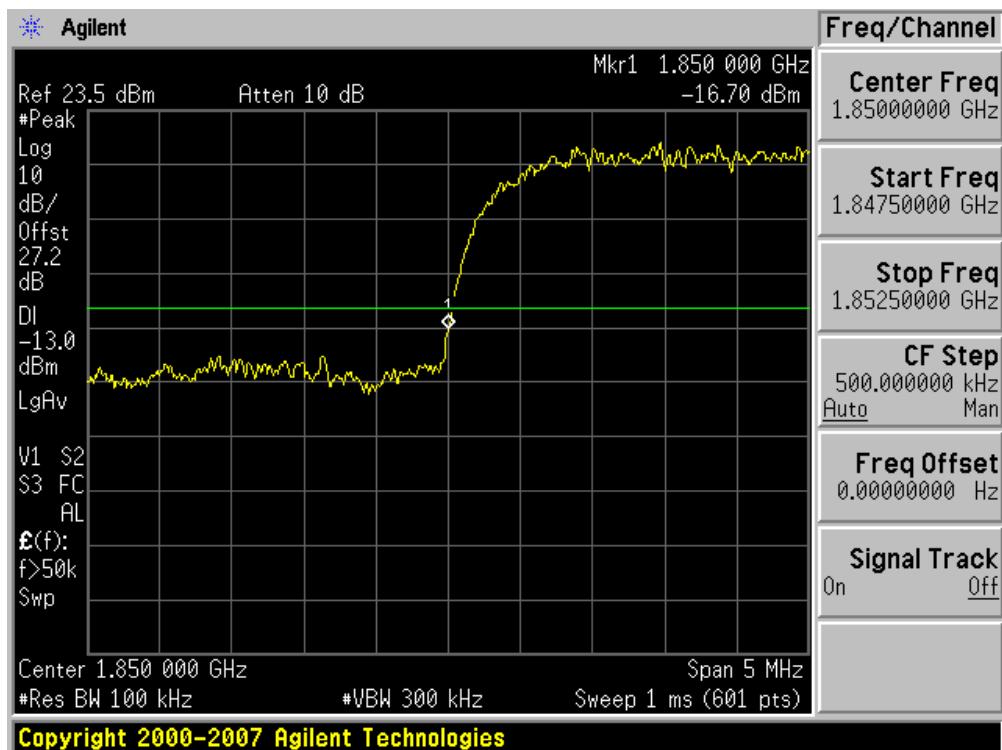
■ WCDMA850 MODE (4132 CH.) Block Edge



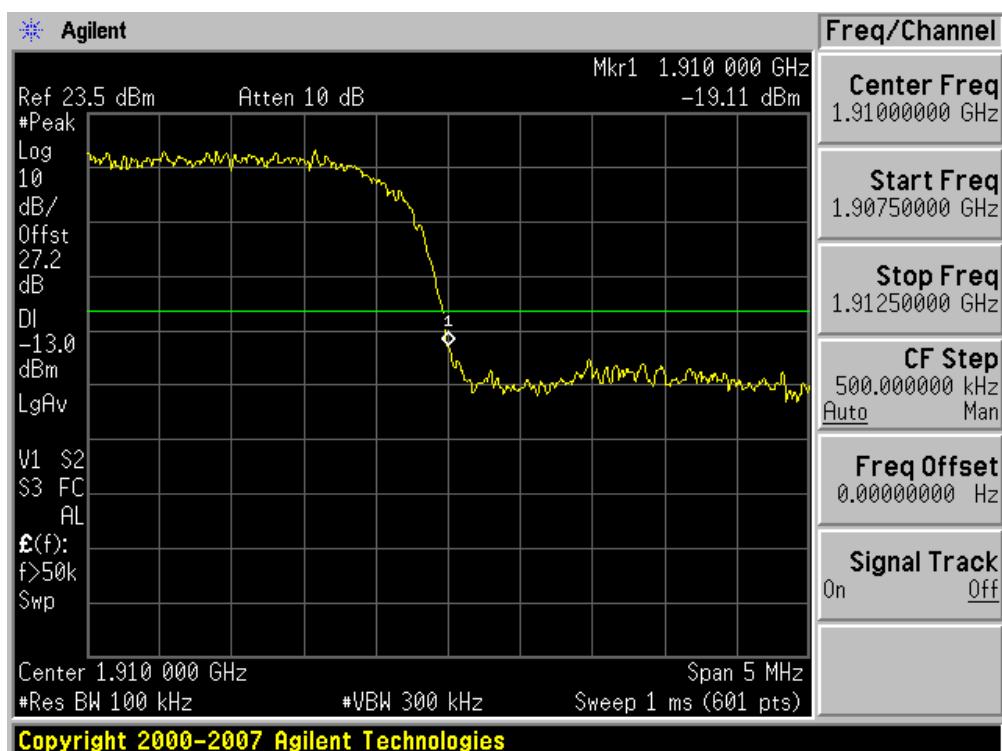
■ WCDMA850 MODE (4233 CH.) Block Edge



■ WCDMA 1900 MODE (9262 CH.) Block Edge

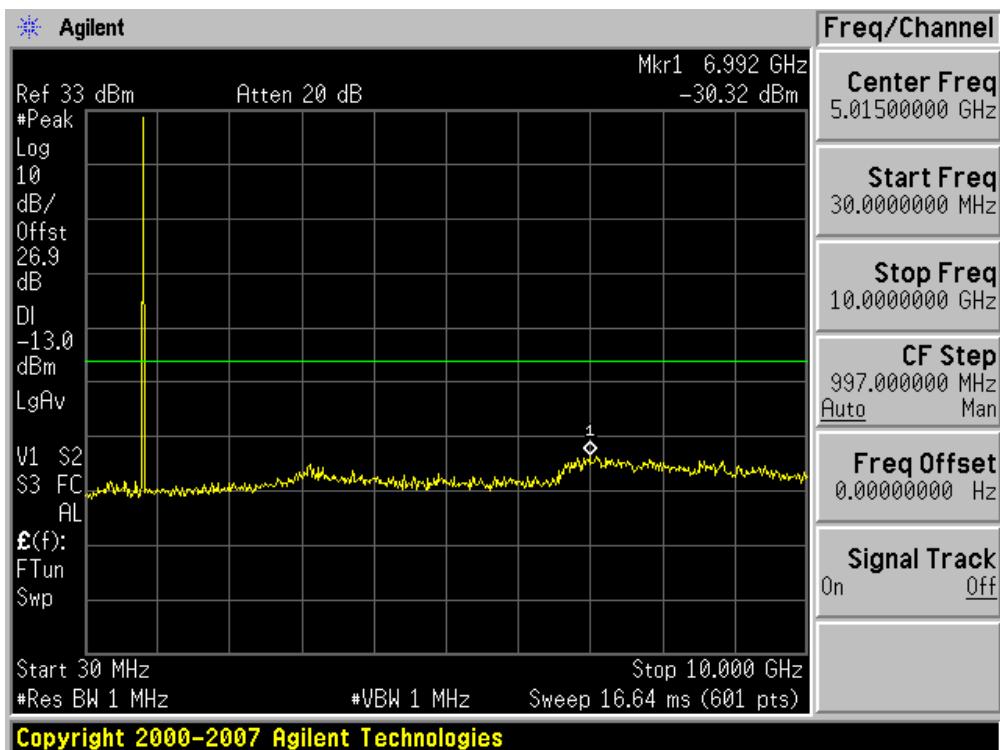


■ WCDMA 1900 MODE (9538 CH.) Block Edge

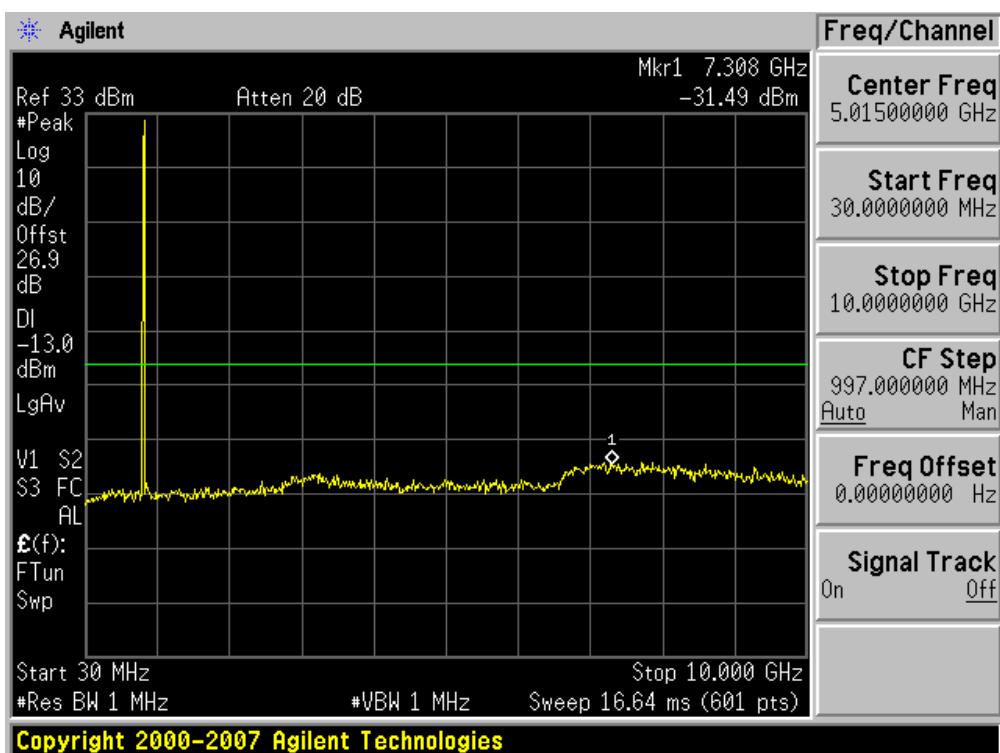


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■ GSM850 MODE (128 CH.) Conducted Spurious Emissions

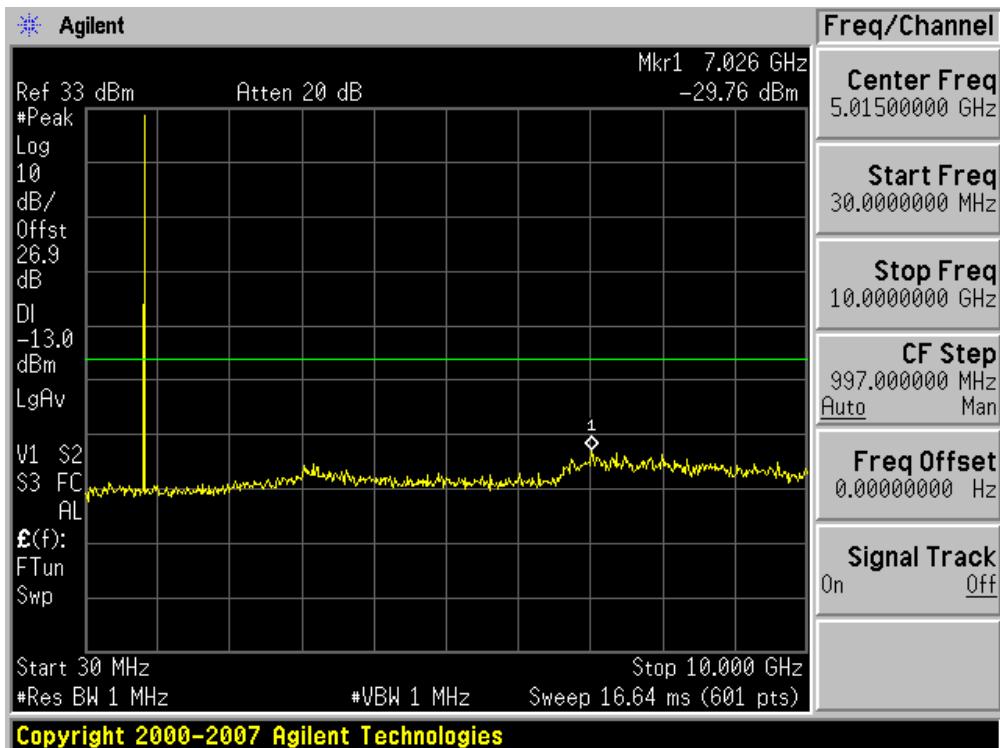


■ GSM850 MODE (190 CH.) Conducted Spurious Emissions

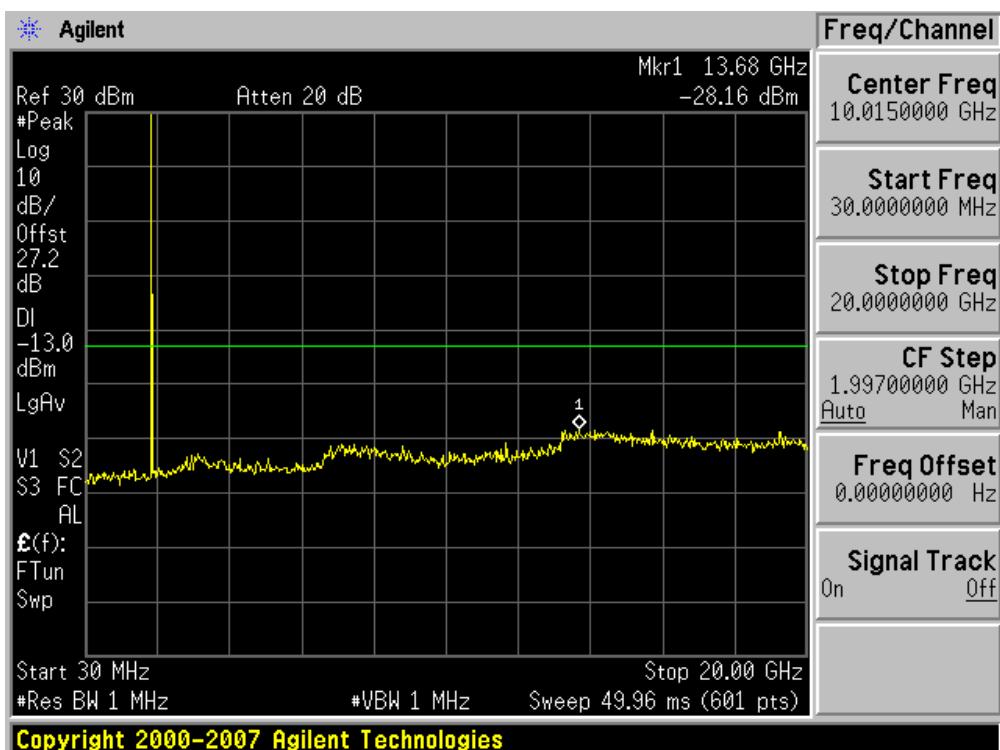


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| Test Report No. | Test Dates: | EUT Type: | FCC ID: |
| HCT-R08-104 | July 30.2008 | Quad-band GSM/WCDMA Phone with Bluetooth | 06Y-GTX75 |

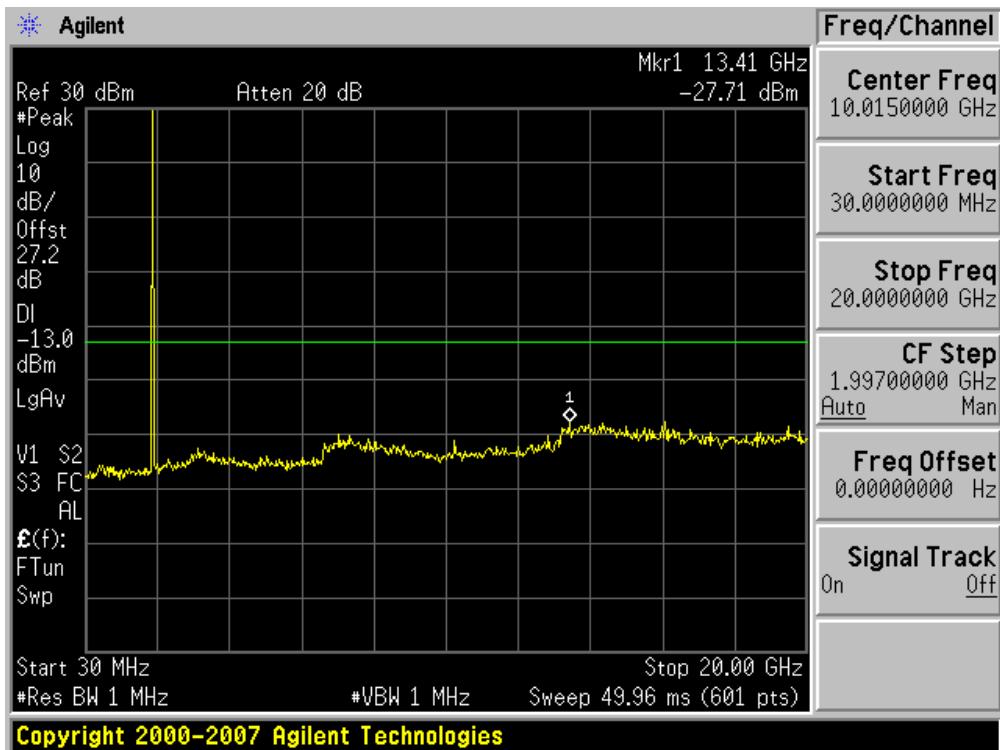
■ GSM850 MODE (251 CH.) Conducted Spurious Emissions



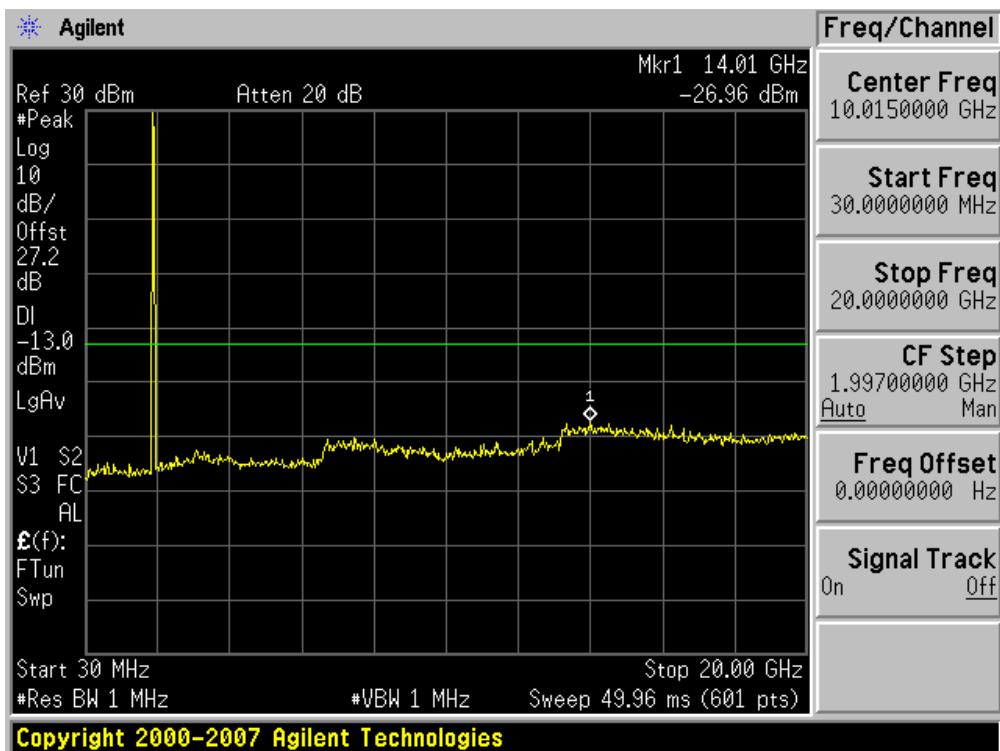
■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions



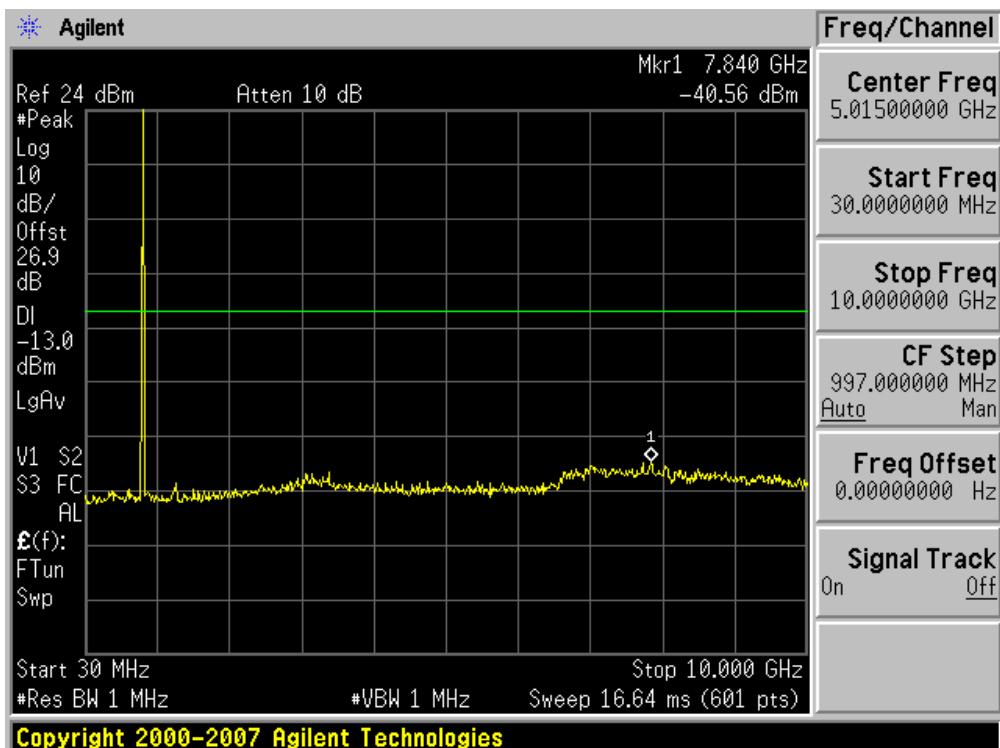
■ GSM1900 MODE (661 CH.) Conducted Spurious Emissions



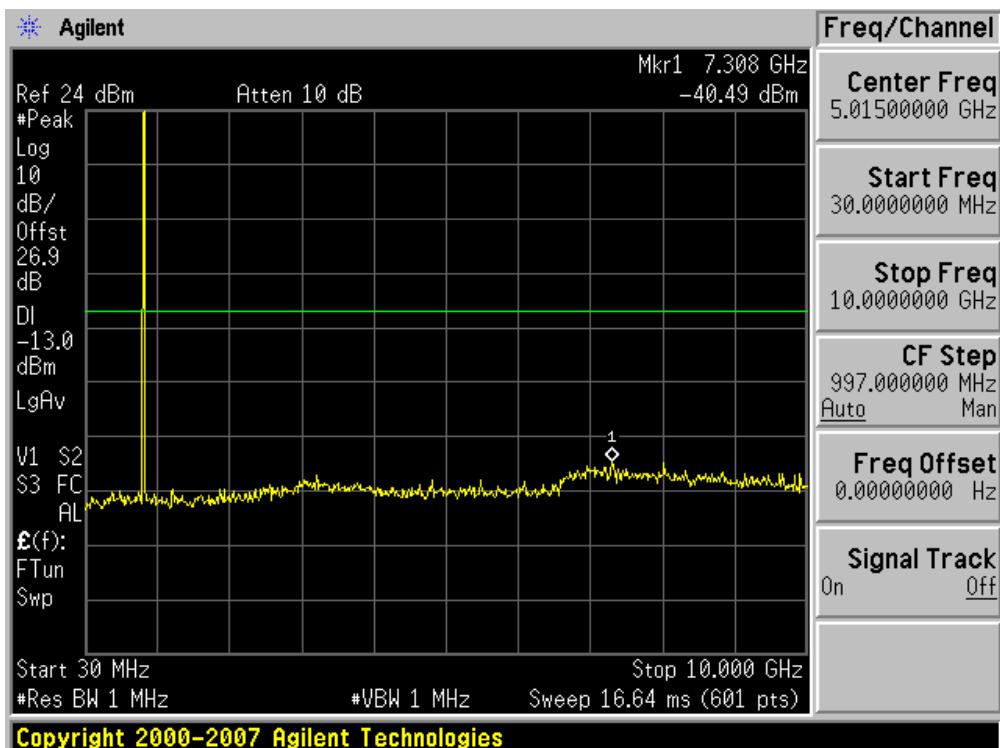
■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions



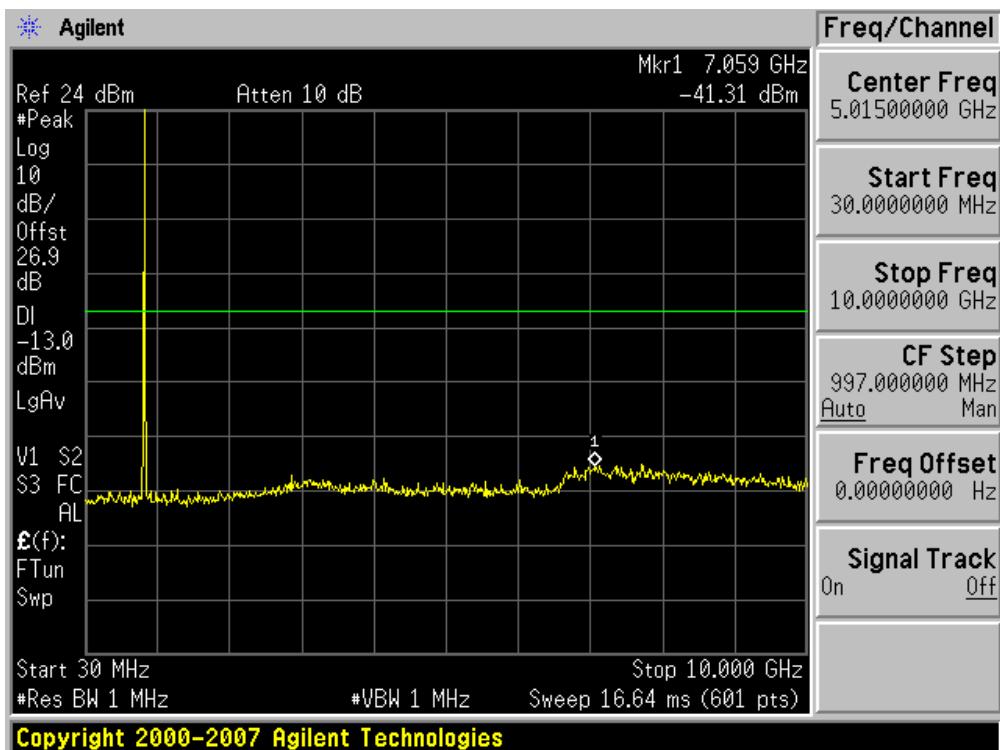
■ WCDMA850 MODE (4132 CH.) Conducted Spurious Emissions



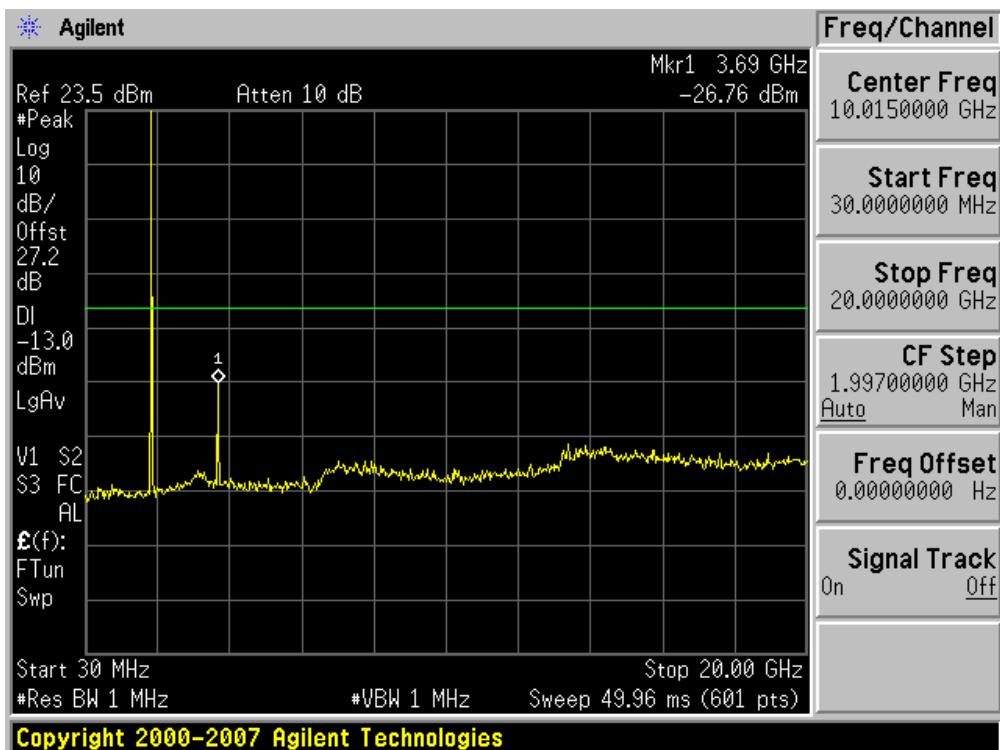
■ WCDMA850 MODE (4183 CH.) Conducted Spurious Emissions



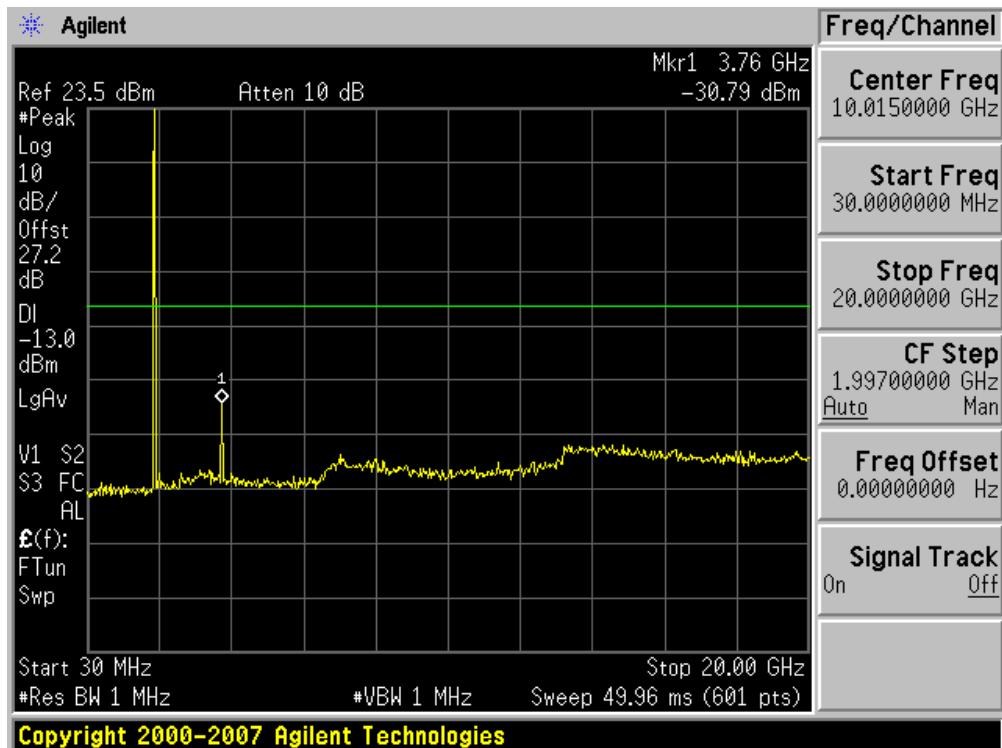
■ WCDMA850 MODE (4233 CH.) Conducted Spurious Emissions



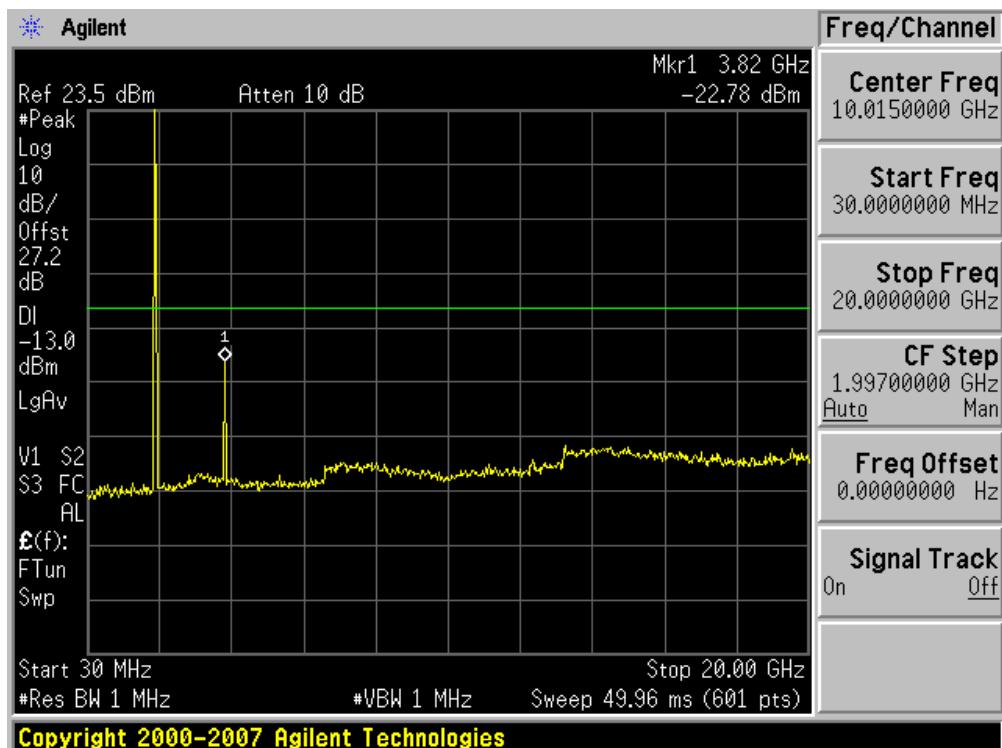
■ WCDMA 1900 MODE (9262 CH.) Conducted Spurious Emissions



■ WCDMA 1900 MODE (9400 CH.) Conducted Spurious Emissions



■ WCDMA 1900 MODE (9538 CH.) Conducted Spurious Emissions



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