

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE FCC Certification

Applicant Name:

Kyocera Corporation.

Address:

1-34 Sanyo-cho, Daito-Shi, Osaka 574-8501 Japan

Date of Issue: March 14, 2014 Test Site/Location: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

Report No.: HCT-R-1403-F019

HCT FRN: 0005866421

FCC ID:

V65C6530

APPLICANT:	Kyocera Corporation.
FCC Model(s):	C6530N
EUT Type:	Mobile Phone
FCC Classification:	Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§22, §24, §27, §2
Tx Frequency:	824.20 - 848.80 MHz (GSM850) 826.40 - 846.60 MHz (WCDMA850) 1 850.20 - 1 909.80 MHz (GSM1900) 1 852.4 – 1 907.6 MHz (WCDMA1900) 1 712.4 – 1 752.6 MHz (WCDMA1700)
Rx Frequency:	869.20 - 893.80 MHz (GSM850) 871.40 - 891.60 MHz (WCDMA850) 1 930.20 - 1 989.80 MHz (GSM1900) 1 932.4 – 1 987.6 MHz (WCDMA1900) 2 112.4 – 2 152.6 MHz (WCDMA1700)
Max. RF Output Power:	0.883 W GSM850 (29.46 dBm) / 1.377 W GSM1900 (31.39 dBm) 0.541 W GSM850 EDGE (27.33 dBm) / 0.973 W GSM1900 EDGE (29.88 dBm) 0.248 W WCDMA850 (23.94 dBm) / 0.454 W WCDMA1900 (26.57 dBm) 0.466 W WCDMA1700 (26.68 dBm)
Emission Designator(s):	245 KGXW (GSM850) 246 KGXW (GSM1900) 248 KG7W (GSM850 EDGE) 245 KG7W (GSM1900 EDGE) 4M20F9W (WCDMA850) 4M18F9W (WCDMA1900) 4M18F9W (WCDMA1700)

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 subject to a denial of Federal benefits that includes 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

Test engineer of RF Team

Approved bv

: Chang Seok Choi

Manager of RF Team

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1403-F019	March 14, 2014	- First Approval Report

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	Kyocera Corporation.
Address:	1-34 Sanyo-cho, Daito-Shi, Osaka 574-8501 Japan
FCC ID:	V65C6530
Application Type: FCC Classification:	Certification Licensed Portable Transmitter Held to Ear (PCE)
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EUT Type:	Mobile Phone
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Emission Designator(s):	245 KGXW (GSM850) 246 KGXW (GSM1900) 248 KG7W (GSM850 EDGE) 245 KG7W (GSM1900 EDGE) 4M20F9W (WCDMA850) 4M18F9W (WCDMA1900) 4M18F9W (WCDMA1700)
Date(s) of Tests:	February 24, 2014 ~ March 12, 2014
Antenna Specification	Manufacturer: HCT Co., Ltd.
	Antenna type: Internal Antenna
	Peak Gain: GSM850/ WCDMA850 : -1.82 dBi
	GSM1900/ WCDMA1900 : -0.27 dBi
	WCDMA1700 : -1.39 dBi

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2. INTRODUCTION

2.1. EUT DESCRIPTION

The Kyocera Corporation. C6530N Mobile Phone consists of GPRS Class12, EDGE 12, GSM850, GSM1900, WCDMA850, WCDMA1900, WCDMA1700, HSDPA, HSUPA and HSPA+ Release 8.

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 Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea.

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3. DESCRIPTION OF TESTS

3.1 ERP/EIRP RADIATED POWER AND RADIATED SPURIOUS EMISSIONS

Note: ERP(Effective Radiated Power), EIRP(Effective Isotropic Radiated Power)

Test Procedure

Radiated emission measurements are performed in the Fully-anechoic chamber. The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-C-2004 Clause 2.2.17. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission. The level and position of the maximized emission is recorded with the spectrum analyzer using a positive peak detector.

A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

 $P_{d(dBm)} = Pg_{(dBm)} - cable loss_{(dB)} + antenna gain_{(dB)}$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

The maximum EIRP is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

Radiated spurious emissions

- 1. Frequency Range : 30 MHz \sim 10th Harmonics of highest channel fundamental frequency.
- The EUT was setup to maximum output power. The 100 kHz RBW was used to scan from 30 MHz to 1 GHz. Also, the 1 MHz RBW was used to scan from 1 GHz to 10 GHz(GSM850/WCDMA850) or 20 GHz(GSM1900/WCDMA1900/WCDMA1700). The high, low and a middle channel were tested for out of band measurements.

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3.2 PEAK- TO- AVERAGE RATIO

Test Procedure

Peak to Average Power Ratio is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r01, June 7, 2013, Section 5.7.

- Section 5.7.1 CCDF Procedure

- a) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- b) Set the number of counts to a value that stabilizes the measured CCDF curve;
- c) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- d) Record the maximum PAPR level associated with a probability of 0.1%.

- Section 5.7.2 Alternate Procedure

Use one of the procedures presented in 5.1 to measure the total peak power and record as P_{Pk} . Use one of the applicable procedures presented 5.2 to measure the total average power and record as P_{Avg} . Determine the P.A.R. from: P.A.R_(dB) = $P_{Pk (dBm)} - P_{Avg (dBm)}$ (P_{Avg} = Average Power + Duty cycle Factor)

5.1.1 Peak power measurements with a spectrum/signal analyzer or EMI receiver

The following procedure can be used to determine the total peak output power.

- a) Set the RBW \geq OBW.
- b) Set VBW \geq 3 × RBW.
- c) Set span $\ge 2 \times RBW$
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Ensure that the number of measurement points \geq span/RBW.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the peak amplitude level.

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5.2.2 Procedures for use with a spectrum/signal analyzer when EUT cannot be configured to transmit continuously and sweep triggering/signal gating cannot be properly implemented

If the EUT cannot be configured to transmit continuously (burst duty cycle < 98%), then one of the following procedures can be used. The selection of the applicable procedure will depend on the characteristics of the measured burst duty cycle.

Measure the burst duty cycle with a spectrum/signal analyzer or EMC receiver can be used in zero-span mode if the response time and spacing between bins on the sweep are sufficient to permit accurate measurement of the burst on/off time of the transmitted signal.

5.2.2.2 Constant burst duty cycle

If the measured burst duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then:

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW \geq 3 x RBW.
- d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (power averaging).
- g) Set sweep trigger to "free run".
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- j) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).

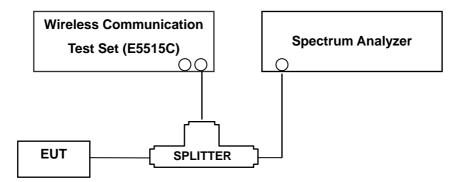
For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

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3.3 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Procedure

OBW is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r01, June 7, 2013, Section 4.2..

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels(low, middle and high operational range.)

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

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3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

Spurious and harmonic emissions at antenna terminal is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r01, June 7, 2013, Section 6.0.

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

On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. The RBW settings used in the testing are greater than 1 % of the occupied bw. 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.

Measurements of all out of band are made on RBW = 1MHz and VBW \ge 3 MHz in the worst case despite RBW = 100 kHz and VBW \ge 300 kHz upon 1 GHz.

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Trace Mode = max hold
- Sweep time = auto
- Number of points in sweep ≥ 2 * Span / RBW

- Band Edge Requirement : According to FCC 22.917, 24.238(a), 27.53(h) specified that 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels(low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The center frequency of spectrum is the band edge frequency and span is 1MHz RB of the spectrum is 3KHz and VB of the spectrum is 3KHz (GSM)

The center frequency of spectrum is the band edge frequency and span is 5MHz RB of the spectrum is 100KHz and VB of the spectrum is 100KHz(WCDMA)

NOTES: The analyzer plot offsets were determined by below conditions.

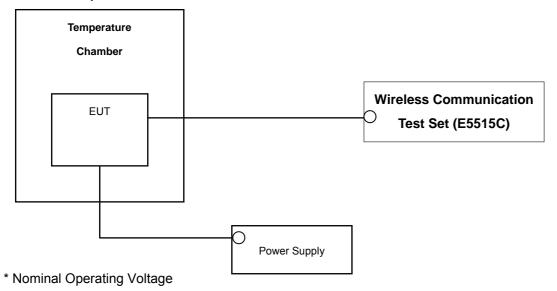
- For GSM850 and WCDMA850, total offset 27.0 dBm = 20 dBm attenuator + 6 dBm Divider + 1.0 dBm RF cables.
- For GSM1900 and WCDMA1900, total offset 28.3 dBm = 20 dBm attenuator + 6 dBm Divider + 2.3 dBm RF cables.
- For WCDMA1700, total offset 28.0 dB = 20 dBm attenuator + 6 dBm Divider + 2.0 dBm RF cables.

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3.5 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



Test Procedure

Frequency stability is tested in accordance with ANSI/TIA-603-C-2004 section 2.2.2.

The frequency stability of the transmitter is measured by: a.) **Temperature:** The temperature is varied from - $30 \degree C$ to + $50 \degree C$ 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 halfhour 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
Agilent	E9327A/ Power Sensor	MY4442009	Annual	04/16/2014
MITEQ	AMF-6D-001180-35-20P/AMP	1081666	Annual	09/12/2014
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	04/25/2014
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	04/25/2014
Hewlett Packard	11667B / Power Splitter	11275	Annual	05/13/2014
Digital	EP-3010/ Power Supply	3110117	Annual	10/29/2014
Schwarzbeck	UHAP/ Dipole Antenna	557	Biennial	03/05/2015
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	05/03/2015
Korea Engineering	KR-1005L / Chamber	KRAB05063-3CH	Annual	10/30/2014
Schwarzbeck	BBHA 9120D/ Horn Antenna	147	Biennial	05/15/2014
Schwarzbeck	BBHA 9120D/ Horn Antenna	1151	Biennial	10/05/2015
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	04/25/2014
WEINSCHEL	ATTENUATOR	BR0592	Annual	10/28/2014
REOHDE&SCHWARZ	FSV40/Spectrum Analyzer	1307.9002K40-100931-NK	Annual	06/10/2014
Agilent	8960 (E5515C)/ Base Station	GB45070669	Annual	08/31/2014

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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), 27.53(h)	Occupied Bandwidth	N/A		PASS
2.1051, 22.917(a), 24.238(a), 27.53(h)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions		PASS
* 2.1046	Conducted Output Power	-	CONDUCTED	PASS
24.232(d) 27.50(d)(5	Peak- to- Average Ratio	< 13 dB		PASS
2.1055, 22.355, 24.235 27.54	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP		PASS
24.232(c), 27.50(d)(4)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP	RADIATED	PASS
2.1053, 22.917(a), 24.238(a), 27.53(h)	Radiated Spurious and Harmonic Emissions	< 43 + 10log10 (P[Watts]) for all out-of band emissions		PASS

*: See SAR Report

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6. SAMPLE CALCULATION

A. ERP Sample Calculation

Mode	Ch./ Freq.		Measured	Substitude	Ant. Gain	C.L	Pol.	EF	RP
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	(dBd)	U.L	P0I.	w	dBm
GSM850	128	824.20	-21.37	38.40	-10.61	0.95	Н	0.483	26.84

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

- 1) The EUT mounted on a non-conductive tuntable is 0.8 meter above test site ground level.
- 2) During the test, the turn table is rotated 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 EFFECTIVE RADIATED POWER OUTPUT

(GSM850 Mode)

Ch./	Freq.	Measured	Substitude	Ant. Gain	C.L Pol.		ER	Р
channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBd)	U.L	P0I.	w	dBm
128	824.20	-21.66	40.90	-10.59	0.85	н	0.883	29.46
190	836.60	-22.40	39.98	-10.53	0.89	Н	0.718	28.56
251	848.80	-23.11	39.27	-10.48	0.88	Н	0.618	27.91
EDGE 128	824.20	-23.79	38.77	-10.59	0.85	Н	0.541	27.33

(WCDMA850 Mode)

Ch./	Freq.	Measured	Substitude	Ant. Gain	C.L	Pol.	ER	Р
channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBd)	U.L	P0I.	w	dBm
4132	826.40	-27.23	35.36	-10.58	0.84	н	0.248	23.94
4183	836.60	-27.58	34.80	-10.53	0.89	Н	0.218	23.38
4233	846.60	-28.14	34.42	-10.49	0.85	Н	0.203	23.08

Note: Standard batteries are the only options for this phone. And a peak detector is used.

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 non-conductive styrofoam resin table 3-meters from the receive antenna. Turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For WCDMA, GSM signals, a peak detector is used, with RBW \geq OBW, VBW \geq 3 x RBW. 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 RMC and TPC bits all set to "1" and in GSM mode 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. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is z plane in GSM850 and WCDMA850 mode. Also worst case of detecting Antenna is horizontal polarization in GSM850 and WCDMA850 mode.

The EDGE mode testing were performed using 1Tx because 1Tx is highest power in EDGE mode.

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7.2 EQUIVALENT ISOTROPIC RADIATED POWER

(GSM1900 Mode)

Ch./	Freq.	Measured	Substitude	Ant. Gain		Del	EII	RP
channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBi)	C.L	Pol.	w	dBm
512	1,850.20	-9.08	22.54	10.04	1.19	Н	1.377	31.39
661	1,880.00	-10.62	21.11	10.04	1.23	V	0.982	29.92
810	1,909.80	-10.14	21.84	10.05	1.22	V	1.167	30.67
EDGE 512	1,850.20	-10.59	21.03	10.04	1.19	Н	0.973	29.88

Note: Standard batteries are the only options for this phone. And a peak detector is used.

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 non-conductive styrofoam resin table 3-meters from the receive antenna. 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 = 3 MHz. For WCDMA 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 RMC 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. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is z plane in GSM1900 (x plane ch 512) mode. Also worst case of detecting Antenna is in vertical polarization in GSM1900 (horizontal polarization) mode.

The EDGE mode testing were performed using 1Tx because 1Tx is highest power in EDGE mode.

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(WCDMA1900 Mode)

Ch./	Freq.	Measured	Substitude	Ant. Gain		Del	Ell	RP
channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBi)	C.L	Pol.	w	dBm
9262	1,852.40	-13.90	17.72	10.04	1.19	Н	0.454	26.57
9400	1,880.00	-15.00	16.73	10.04	1.23	V	0.358	25.54
9538	1,907.60	-14.60	17.28	10.05	1.22	V	0.408	26.11

(WCDMA1700 Mode)

Ch./	Freq.	Measured	Substitude	Ant. Gain		Del	Ell	RP
channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBi)	C.L	Pol.	w	dBm
1312	1712.40	-13.79	17.72	9.87	1.16	Н	0.440	26.43
1412	1732.40	-13.62	17.94	9.90	1.16	Н	0.466	26.68
1513	1752.60	-13.70	17.60	10.01	1.17	Н	0.441	26.44

Note: Standard batteries are the only options for this phone. And a peak detector is used.

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 non-conductive styrofoam resin 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 = 3 MHz. For WCDMA 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 RMC 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. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is x plane in WCDMA1900 (z plane ch 9400, 9538) and WCDMA1700 mode. Also worst case of detecting Antenna is in horizontal polarization in WCDMA1900 (vertical polarization) and WCDMA1700 mode.

The EDGE mode testing were performed using 1Tx because 1Tx is highest power in EDGE mode.

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7.3 RADIATED SPURIOUS EMISSIONS 7.3.1 RADIATED SPURIOUS EMISSIONS (GSM850)

MEASURED OUTPUT POWER:	29.46 dBm = 0.883 W
MODULATION SIGNAL:	GSM850
DISTANCE:	3 meters
LIMIT: 43 + 10 log10 (W) =	42.46 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain (dBd)	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,648.40	-33.19	7.55	-42.27	1.13	V	-35.85	65.31
128 (824.2)	2,472.60	-44.05	8.39	-50.72	1.35	Н	-43.68	73.14
	3,296.80	-56.87	10.07	-63.93	1.58	V	-55.44	84.90
	1,673.20	-35.30	7.62	-44.54	1.12	Н	-38.04	67.50
190 (836.6)	2,509.80	-46.69	8.50	-53.27	1.35	V	-46.12	75.58
	3,346.40	-56.10	10.26	-63.31	1.61	V	-54.66	84.12
	1,697.60	-38.15	7.69	-47.49	1.16	Н	-40.96	70.42
251 (848.8)	2,546.40	-46.35	8.57	-53.25	1.37	V	-46.05	75.51
	3,395.20	-56.74	10.25	-63.86	1.62	Н	-55.23	84.69

NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

 <u>2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3</u> maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 <u>3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.</u>

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7.3.2 RADIATED SPURIOUS EMISSIONS(GSM1900)

MEASURED OUTPUT POWER:	31.39 dBm = 1.377 W
MODULATION SIGNAL:	GSM1900
DISTANCE:	3 meters
LIMIT: 43 + 10 log10 (W) =	44.39 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain (dBi)	<u>Substitute</u> Level [dBm]	C.L	Pol.	EIRP (dBm)	dBc
	3,700.40	-50.76	12.32	-56.48	1.73	V	-45.89	77.28
512 (1850.2)	5,550.60	-56.44	13.02	-56.94	2.12	Н	-46.04	77.43
	7,400.80	-56.48	11.06	-46.97	2.42	Н	-38.33	69.72
	3,760.00	-51.34	12.29	-56.66	1.66	V	-46.03	77.42
661 (1880.0)	5,640.00	-55.71	13.12	-55.99	2.11	Н	-44.98	76.37
	7,520.00	-57.34	11.09	-48.33	2.35	Н	-39.59	70.98
	3,819.60	-53.66	12.28	-58.77	1.80	Н	-48.29	79.68
810 (1909.8)	5,729.40	-53.89	13.06	-53.95	2.14	Н	-43.03	74.42
	7,639.20	-57.05	11.38	-47.29	2.41	Н	-38.32	69.71

NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

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7.3.3 RADIATED SPURIOUS EMISSIONS (WCDMA850)

MEASURED OUTPUT POWER:	23.94 dBm = 0.248 W
MODULATION SIGNAL:	WCDMA850
DISTANCE:	<u>3 meters</u>
LIMIT: 43 + 10 log10 (W) =	<u>36.94 dBc</u>

Ch.	Freq.(MHz)	Measured Level	Ant. Gain (dBd)	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,652.80	-48.29	7.57	-57.52	1.13	V	-51.08	75.02
4,132 (826.4)	2,479.20	-50.97	8.39	-57.65	1.34	Н	-50.60	74.54
, , ,	3,305.60	-	-	-	-	-	-	-
	1,673.20	-50.50	7.62	-59.73	1.13	V	-53.24	77.18
4,183 (836.6)	2,509.80	-	-	-	-	-	-	-
	3,346.40	-	-	-	-	-	-	-
	1,693.20	-49.89	7.68	-59.23	1.15	V	-52.70	76.64
4,233 (846.6)	2,539.80	-	-	-	-	-	-	-
	3,386.40	-	-	-	-	-	-	-

NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

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7.3.4 RADIATED SPURIOUS EMISSIONS (WCDMA1900)

MEASURED OUTPUT POWER:	26.57 dBm = 0.454 W
MODULATION SIGNAL:	WCDMA1900
DISTANCE:	<u>3 meters</u>
LIMIT: 43 + 10 log10 (W) =	<u>39.57 dBc</u>

Ch.	Freq.(MHz)	Measured Level	Ant. Gain (dBi)	<u>Substitute</u> Level [dBm]	C.L	Pol.	EIRP (dBm)	dBc
	3,704.80	-53.05	12.32	-58.19	1.72	Н	-47.59	74.16
9262	5,557.20	-56.98	13.03	-57.44	2.14	Н	-46.55	73.12
	7,409.60	-58.50	11.05	-48.77	2.40	Н	-40.12	66.69
	3,760.00	-54.67	12.29	-59.99	1.66	Н	-49.36	75.93
9400	5,640.00	-	-	-	-	-	-	-
	7,520.00	-	-	-	-	-	-	-
	3,815.20	-51.29	12.29	-56.42	1.79	Н	-45.92	72.49
9538	5,722.80	-	-	-	-	-	-	-
	7,630.40	-	-	-	-	-	-	-

NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

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7.3.5 RADIATED SPURIOUS EMISSIONS (WCDMA1700)

 MEASURED OUTPUT POWER:
 26.68 dBm = 0.466 W

 MODULATION SIGNAL:
 WCDMA1700

 DISTANCE:
 3 meters

 LIMIT: 43 + 10 log10 (W) =
 39.68 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain (dBi)	<u>Substitute</u> Level [dBm]	C.L	Pol.	EIRP (dBm)	dBc
	3,424.80	-54.00	12.35	-60.84	1.63	Н	-50.12	76.80
1312 (1712.4)	5,137.20	-56.47	12.36	-56.71	1.99	V	-46.34	73.02
	6,849.60	-56.89	12.15	-51.25	2.36	V	-41.46	68.14
	3,464.80	-54.16	12.27	-60.69	1.63	V	-50.05	76.73
1412 (1732.4)	5,197.20	-56.18	12.63	-56.73	2.11	Н	-46.21	72.89
	6,929.60	-57.18	11.87	-51.03	2.41	V	-41.57	68.25
	3,505.20	-54.45	12.15	-60.21	1.67	V	-49.73	76.41
1513 (1752.6)	5,257.80	-56.28	12.89	-57.72	2.02	V	-46.85	73.53
	7,010.40	-57.80	11.61	-51.20	2.36	Н	-41.95	68.63

NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

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7.4 PEAK-TO-AVERAGE RATIO

		Measured		P _{Avg} (Duty Cycle)			P.A.R.	Limit	Pass
Band Ch	Ch.	Ch. P _{Pk} (dBm)		Tx _{⊺otal} (ms)	Tx _{On} (ms)	Factor (dB)	= P _{Pk} - P _{Avg} (dB)	(dB)	3) / Fail
GSM1900	661	31.61	22.15				0.22		Pass
GSM1900 EDGE	661	30.03	17.15	4.6232	0.5507	9.24	3.64	13	Pass
WCDMA1900	9400		CCDF Procedure						Pass
WCDMA1700	1412								Pass

- Plots of the EUT's Peak- to- Average Ratio are shown Page 36 ~ 38, 41, 43.

NOTES:

Peak to Average Power Ratio was tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r01, June 7, 2013, Section 5.7.

Only GSM(include EDGE) Mode was tested by Section 5.7.2 Alternate Procedure

 $P.A.R_{(dB)} = P_{Pk (dBm)} - P_{Avg (dBm)} (P_{Avg} = Average Power + Duty cycle Factor)$

Duty cycle Factor = 10 log (1/x), x = Tx_{On} / Tx_{Total}

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7.5 OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (GSM: kHz / WCDMA : MHz)
	128	824.20	244.6012
GSM850	190	836.60	243.3909
	251	848.80	243.9839
GSM850 EDGE	128	824.20	247.7891
	512	1,850.20	243.2226
GSM1900	661	1,880.00	240.6020
	810	1,909.80	245.7161
GSM1900 EDGE	810	1,909.80	244.6359
	4132	826.40	4.1842
WCDMA850	4183	836.60	4.1571
	4233	846.60	4.1985
	9262	1852.40	4.1623
WCDMA1900	9400	1880.00	4.1714
	9538	1907.60	4.1810
	1312	1712.40	4.1843
WCDMA1700	1412	1732.40	4.1845
	1513	1752.60	4.1636

- Plots of the EUT's Occupied Bandwidth are shown Page 32 ~ 35, 38 ~ 41, 42 ~ 43.

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7.6 CONDUCTED SPURIOUS EMISSIONS

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
	128	4.778590	-28.44
GSM850	190	4.985340	-27.60
	251	4.164290	-28.48
	512	6.998780	-24.12
GSM1900	661	6.958900	-24.98
	810	6.990310	-25.17
	4132	4.511700	-28.44
WCDMA850	4183	4.793500	-27.27
	4233	4.616070	-28.59
	9262	6.976350	-24.36
WCDMA1900	9400	6.981330	-25.35
	9538	6.953420	-24.09
	1312	6.563300	-25.68
WCDMA1700	1412	6.995630	-25.03
	1513	6.558760	-25.23

- Plots of the EUT's Conducted Spurious Emissions are shown Page 58 ~ 72.

7.6.1 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 44 ~ 57.

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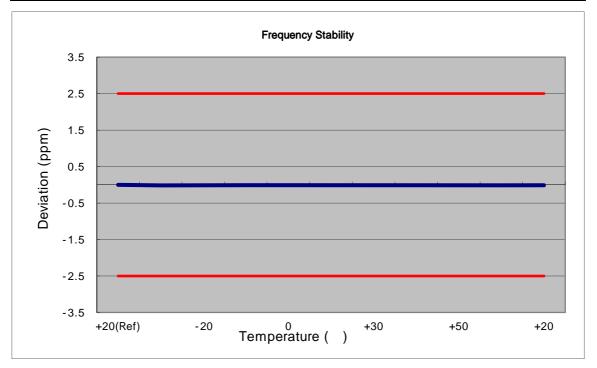
7.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 7.7.1 FREQUENCY STABILITY (GSM850)

OPERATING FREQUENCY:	836,600,000 Hz
CHANNEL:	190
REFERENCE VOLTAGE:	3.8 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)	836 600 013	0	0.000 000	0.000
100%		-30	836 599 999	-13.91	-0.000 002	-0.017
100%		-20	836 600 002	-10.89	-0.000 001	-0.013
100%		-10	836 600 004	-8.75	-0.000 001	-0.010
100%	3.80	0	836 600 003	-9.45	-0.000 001	-0.011
100%		+10	836 600 004	-9.25	-0.000 001	-0.011
100%		+30	836 600 007	-5.85	-0.000 001	-0.007
100%		+40	836 600 003	-9.99	-0.000 001	-0.012
100%		+50	836 599 999	-13.31	-0.000 002	-0.016
115%	4.37	+20	836 600 002	-11.16	-0.000 001	-0.013
85%	3.23	+20	836 600 002	-10.52	-0.000 001	-0.013



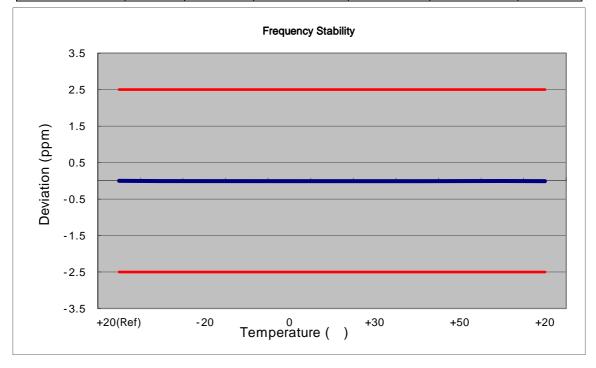
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7.7.2 FREQUENCY STABILITY (GSM1900)

OPERATING FREQUENCY:	1880,000,000 Hz
CHANNEL:	661
REFERENCE VOLTAGE:	3.8 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)	1880 000 009	0	0.000 000	0.000
100%		-30	1879 999 994	-14.63	-0.000 001	-0.008
100%		-20	1879 999 991	-17.70	-0.000 001	-0.009
100%		-10	1879 999 991	-18.47	-0.000 001	-0.010
100%	3.80	0	1879 999 992	-16.97	-0.000 001	-0.009
100%		+10	1879 999 992	-16.94	-0.000 001	-0.009
100%		+30	1879 999 994	-14.69	-0.000 001	-0.008
100%		+40	1879 999 985	-23.67	-0.000 001	-0.013
100%		+50	1879 999 990	-19.14	-0.000 001	-0.010
115%	4.37	+20	1879 999 997	-11.84	-0.000 001	-0.006
85%	3.23	+20	1879 999 989	-20.09	-0.000 001	-0.011



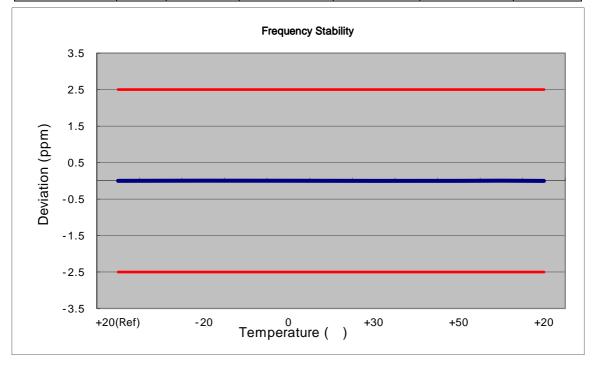
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7.7.3 FREQUENCY STABILITY (WCDMA850)

OPERATING FREQUENCY:	836,600,000 Hz
CHANNEL:	4183
REFERENCE VOLTAGE:	3.8 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)	836 600 002	0	0.000 000	0.000
100%		-30	836 600 002	1.94	0.000 000	0.002
100%		-20	836 600 004	3.54	0.000 000	0.004
100%		-10	836 600 002	1.93	0.000 000	0.002
100%	3.80	0	836 600 002	2.04	0.000 000	0.002
100%		+10	836 599 998	-2.14	0.000 000	-0.003
100%		+30	836 600 002	1.90	0.000 000	0.002
100%		+40	836 599 998	-2.14	0.000 000	-0.003
100%		+50	836 599 997	-2.91	0.000 000	-0.003
115%	4.37	+20	836 600 003	3.07	0.000 000	0.004
85%	3.23	+20	836 599 998	-1.69	0.000 000	-0.002



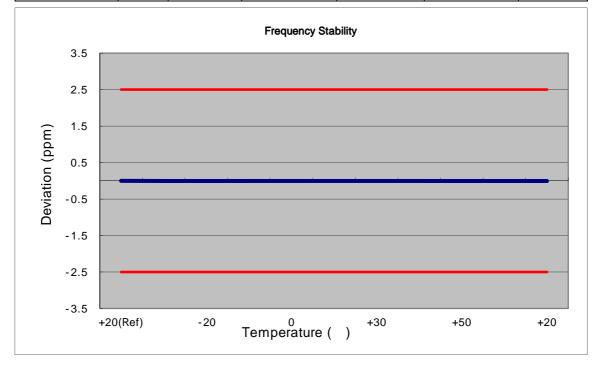
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7.7.4 FREQUENCY STABILITY (WCDMA1900)

OPERATING FREQUENCY:	1,880,000,000 Hz
CHANNEL:	9400
REFERENCE VOLTAGE:	3.8 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)	1880 000 009	0	0.000 000	0.000
100%		-30	1879 999 992	-8.05	0.000 000	-0.004
100%		-20	1879 999 992	-7.75	0.000 000	-0.004
100%		-10	1879 999 991	-9.32	0.000 000	-0.005
100%	3.80	0	1879 999 991	-8.73	0.000 000	-0.005
100%		+10	1879 999 990	-10.24	-0.000 001	-0.005
100%		+30	1879 999 992	-8.29	0.000 000	-0.004
100%		+40	1879 999 991	-8.70	0.000 000	-0.005
100%		+50	1879 999 991	-8.76	0.000 000	-0.005
115%	4.37	+20	1879 999 990	-10.04	-0.000 001	-0.005
85%	3.23	+20	1879 999 992	-8.01	0.000 000	-0.004



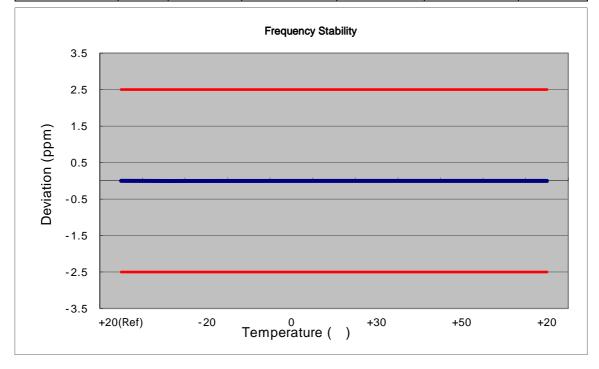
		FCC CERTIFICATION REPORT	www.hct.co.kr			
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			



7.7.5 FREQUENCY STABILITY (WCDMA1700)

OPERATING FREQUENCY:	1,732,400,000 Hz
CHANNEL:	1412
REFERENCE VOLTAGE:	3.8 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)	1732 500 006	0	0.000 000	0.000
100%		-30	1732 499 992	-7.74	0.000 000	-0.004
100%		-20	1732 499 995	-5.17	0.000 000	-0.003
100%	3.80	-10	1732 499 994	-5.93	0.000 000	-0.003
100%		0	1732 499 994	-5.80	0.000 000	-0.003
100%		+10	1732 499 993	-7.30	0.000 000	-0.004
100%		+30	1732 499 993	-7.10	0.000 000	-0.004
100%		+40	1732 499 994	-5.86	0.000 000	-0.003
100%		+50	1732 499 993	-6.82	0.000 000	-0.004
115%	4.37	+20	1732 499 994	-6.07	0.000 000	-0.004
85%	3.23	+20	1732 499 994	-6.15	0.000 000	-0.004



		FCC CERTIFICATION REPORT	www.hct.co.kr			
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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8. TEST PLOTS

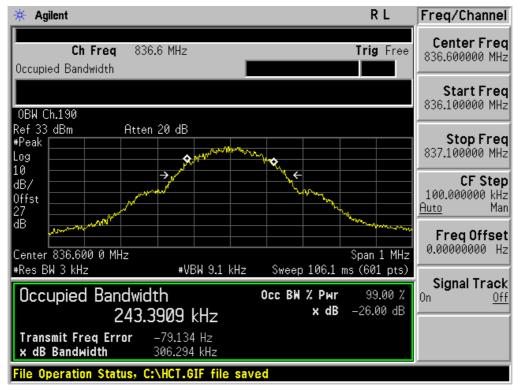
FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530	
		D 04 . (70		



■ GSM850 MODE (128 CH.) Occupied Bandwidth



■ GSM850 MODE (190 CH.) Occupied Bandwidth



		FCC CERTIFICATION REPORT	www.hct.co.kr			
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■ GSM850 MODE (251 CH.) Occupied Bandwidth



■ GSM850 EDGE (128 CH.) Occupied Bandwidth



		FCC CERTIFICATION REPORT	www.hct.co.kr			
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Agilent R Т Freq/Channel <u>- 16</u> Center Freq Ch Freq 1.8502 GHz Trig Free 1.85020000 GHz Occupied Bandwidth Start Freq 1.84970000 GHz 0BW Ch.512 Ref 30 dBm #Peak Atten 20 dB Stop Freq 1.85070000 GHz Log ٥ ĉ 10 → ÷ **CF** Step dB/ 100.000000 kHz Offst 28.3 Man Auto പിഷ dB Freq Offset 0.00000000 Hz Center 1.850 200 0 GHz Span 1 MHz #Res BW 3 kHz #VBW 9.1 kHz Sweep 106.1 ms (601 pts) Signal Track Occupied Bandwidth Occ BW % Pwr 99.00 % 0n Off x dB -26.00 dB 243.2226 kHz **Transmit Freq Error** -597.717 Hz x dB Bandwidth 302.202 kHz Operation Status, C:\HCT.GIF file save

■ GSM1900 MODE (512 CH.) Occupied Bandwidth

■ GSM1900 MODE (661 CH.) Occupied Bandwidth

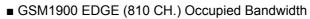


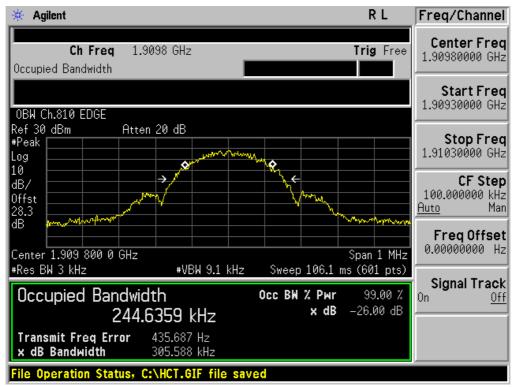
FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530		



Agilent R L Freq/Channel <u>- 16</u> Center Freq Ch Freq 1.9098 GHz Trig Free 1.90980000 GHz Occupied Bandwidth Start Freq 1.90930000 GHz 0BW Ch.810 Ref 30 dBm Atten 20 dB Stop Freq #Peak 1.91030000 GHz Log ۵ 10 Þ ÷ **CF** Step dB/ 100.000000 kHz Offst 28.3 Man Auto dB Freq Offset 0.00000000 Hz Center 1.909 800 0 GHz Span 1 MHz #Res BW 3 kHz #VBW 9.1 kHz Sweep 106.1 ms (601 pts) Signal Track Occupied Bandwidth Occ BW % Pwr 99.00 % 0n Off x dB -26.00 dB 245.7161 kHz **Transmit Freq Error** 487.196 Hz x dB Bandwidth 308.905 kHz Operation Status, C:\HCT.GIF file save

■ GSM1900 MODE (810 CH.) Occupied Bandwidth



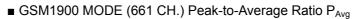


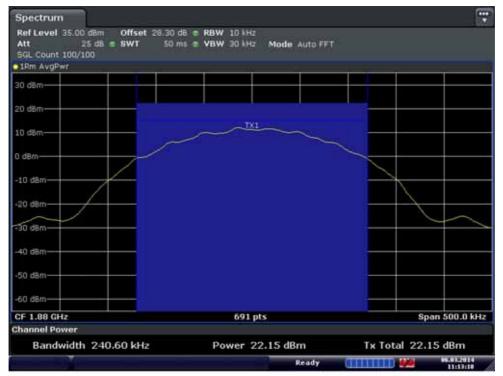
		FCC CERTIFICATION REPORT	www.hct.co.kr			
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			



RefLevel 40.00 dBm Att 30 dB SGL	.30 d8 e R 1.9 μs e V		Mode 4	uto FFT			
1Pk Max							
5			M1.	41[1]		31.61 dBn .88006090 GH	
meb 06							
20 dBm	-						
10 d8m							
) d8m.———							
10 dBm							
20 dBm							
30 dBm							
40 dBm							
50 dBm							
CF 1.88 GHz		691	pts		Span	2.0 MH	

■ GSM1900 MODE (661 CH.) Peak-to-Average Ratio P_{Pk}





FCC CERTIFICATION REPORT			
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530



Spect	rum									
Ref Le Att SGL	vel 4	0.00 dB 30 d		28.30 dB (10 ms (BRBW 1 MH					
1Pk Cl	rw									
30 d8m			MI	D3			3[1] 11[1]	D2:		-0.19 dB 550.7 µs 31.55 dBm
20 dBm	-			11	-		_		- 1	2.5652 ms
10 d8m	+				_		-			
0 d8m-	-									
-10 dBm	i						-			
-20 dBm					1 - 1000					
-30 dBm	WHIN	el ^{an} th later	Washes	hunge	en and an	rive-weining	mening	Anche	gangelit. At best	ganythingtoon
-40 dBm	+									
-50 dBm										
CF 1.8	8 GHa				691	pts	I			1.0 ms/
Marker										
Туре	Ref		Stimulu		Response	Fund	tion		Function Re	sult
M1 D2	M1	1		652 ms	31.55 de -0.01					
D3	MI	1		50.7 µs	-0.19					
		Y.					Ready	am	1111	05.83.2014 07:51:23

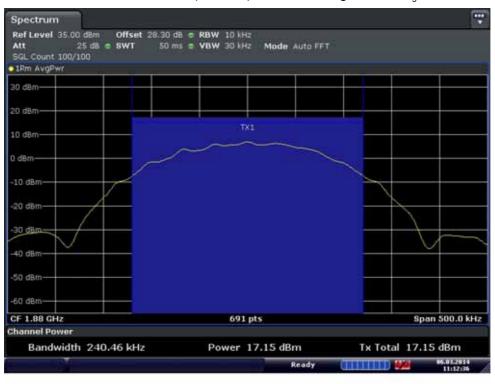
■ GSM1900 MODE (661 CH.) Peak-to-Average Ratio P_{Avg}

■ GSM1900 EDGE (661 CH.) Peak-to-Average Ratio P_{Pk}



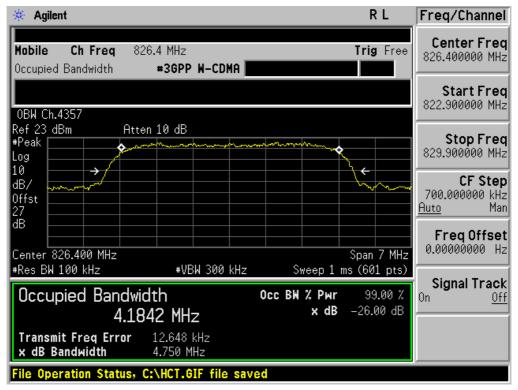
		FCC CERTIFICATION REPORT	www.hct.co.kr				
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530				





■ GSM1900 EDGE (661 CH.) Peak-to-Average Ratio PAvg

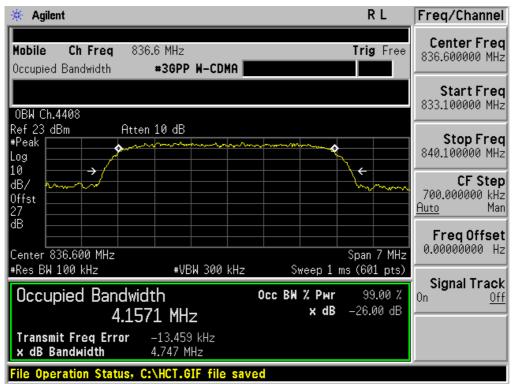
■ WCDMA850 MODE (4132 CH.) Occupied Bandwidth



		FCC CERTIFICATION REPORT	www.hct.co.kr			
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■ WCDMA850 MODE (4183 CH.) Occupied Bandwidth



■ WCDMA850MODE (4233 CH.) Occupied Bandwidth



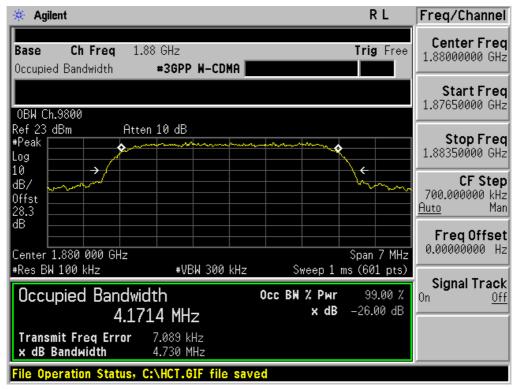
		FCC CERTIFICATION REPORT	www.hct.co.kr			
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
Dage 20 of 72						



Agilent R L Freq/Channel <u>- 16</u> Center Freq Base Ch Freq 1.8524 GHz Trig Free 1.85240000 GHz Occupied Bandwidth #3GPP W-CDMA Start Freq 1.84890000 GHz 0BW Ch.9662 Ref 23 dBm #Peak Atten 10 dB Stop Freq ٥ 1.85590000 GHz Log 10 ÷ ÷ **CF** Step dB/ 700.000000 kHz Offst 28.3 Man <u>Auto</u> dB Freq Offset 0.00000000 Hz Center 1.852 400 GHz Span 7 MHz Sweep 1 ms (601 pts) #Res BW 100 kHz #VBW 300 kHz Signal Track Occupied Bandwidth Occ BW % Pwr 99.00 % 0n Off x dB -26.00 dB 4.1623 MHz **Transmit Freq Error** 24.432 kHz x dB Bandwidth 4.753 MHz Operation Status, C:\HCT.GIF file saved

■ WCDMA1900 MODE (9262 CH.) Occupied Bandwidth

■ WCDMA1900 MODE (9400 CH.) Occupied Bandwidth



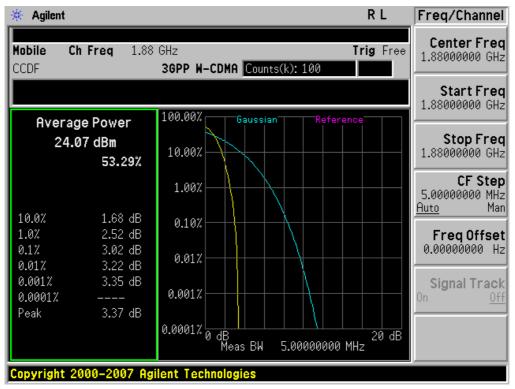
		FCC CERTIFICATION REPORT	www.hct.co.kr			
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Agilent R L Freq/Channel ** Center Freq Base Ch Freq 1.9076 GHz Trig Free 1.90760000 GHz Occupied Bandwidth #3GPP W-CDMA Start Freq 1.90410000 GHz 0BW Ch.9938 Ref 23 dBm #Peak Atten 10 dB Stop Freq 1.91110000 GHz Log 4 10 ÷ **CF** Step dB/ 700.000000 kHz Offst 28.3 Man <u>Auto</u> dB Freq Offset 0.00000000 Hz Center 1.907 600 GHz Span 7 MHz Sweep 1 ms (601 pts) #Res BW 100 kHz #VBW 300 kHz Signal Track Occupied Bandwidth Occ BW % Pwr 99.00 % 0n Off x dB -26.00 dB 4.1810 MHz **Transmit Freq Error** -9.742 kHz x dB Bandwidth 4.735 MHz File Operation Status, C:\HCT.GIF file saved

■ WCDMA1900 MODE (9538 CH.) Occupied Bandwidth

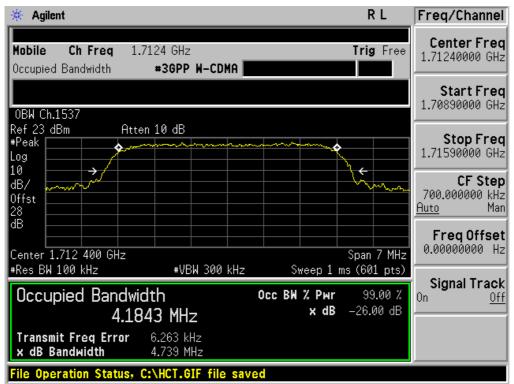
■ WCDMA1900 MODE (9400 CH.) Peak-to-Average Ratio



FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530		
Dama 44 af 70					



■ WCDMA1700 MODE (1312 CH.) Occupied Bandwidth



■ WCDMA1700 MODE (1412 CH.) Occupied Bandwidth



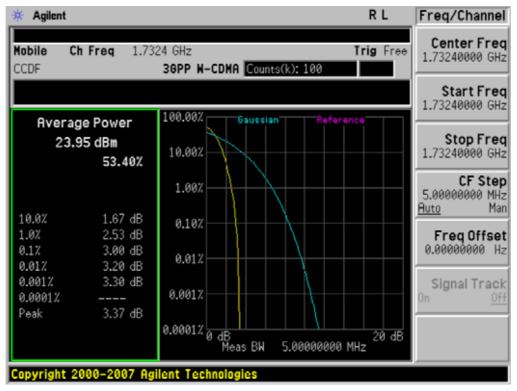
		FCC CERTIFICATION REPORT	www.hct.co.kr			
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■ WCDMA1700 MODE (1513 CH.) Occupied Bandwidth



WCDMA1700 MODE (1412 CH.) Peak-to-Average Ratio



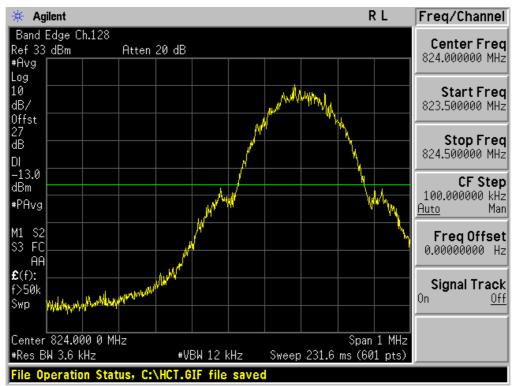
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			



🗧 Agilent				RL	Freq/Channel
Band Edge Ch.12 Ref 33 dBm Avg	8 Atten 20 dB		Mkr1	823.996 7 MHz -15.28 dBm	Center Freq 823.500000 MHz
og Ø IB/ Iffst					Start Frec 823.000000 MHz
IB					Stop Fred 824.000000 MHz
-13.0 IBm PAvg				1 M	CF Ster 100.000000 kH: <u>Auto</u> Ma
11 S2 3 FC				//	Freq Offse 0.00000000 H:
V(),	pore-control with a transferration		waterman	And Market	Signal Tracl On <u>Of</u>
Center 823,500 0 Res BW 3.6 kHz	MHZ	WW 12 kHz		Span 1 MHz 6 ms (601 pts)	

■ GSM850 MODE (128 CH.) Block Edge 1

■ GSM850 MODE (128 CH.) Block Edge 2



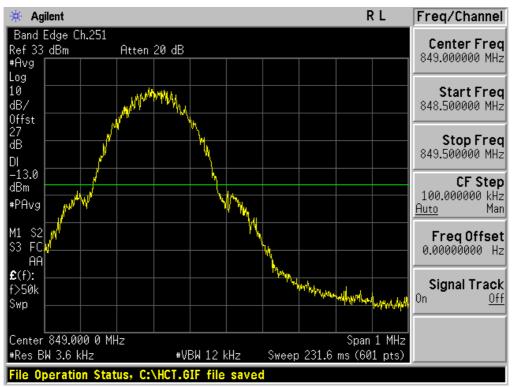
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
Dens 14 of 70						



Band Edge Ch.251						n n	L	Freq/Channel
əf 33 dBm Avg	Atten 20	∂ dB			Mkr1	849.018 -15.5	1 MHz 5 dBm	Center Freq 849.500000 MHz
09) 3/ ifst								Start Fred 849.000000 MHz
7								Stop Freq 850.000000 MHz
13.0 3m PAvg								CF Step 100.000000 kHz <u>Auto</u> Mar
1 S2 10 3 FC 10 AA 10								Freq Offset 0.00000000 Hz
(f): 7/1 >50k wp	Whiteman	hunnan har an har	ar white	htto-app	rtheleron	handle and a	Landyn ^d wryddyn	Signal Track On <u>Of</u> l
enter 849.500 0 M Res BW 3.6 kHz	Hz	#VBW 12	kHz	Sweep	231.6	Span ms (60:	1 MHz 1 pts)	

■ GSM850 MODE (251 CH.) Block Edge 1

■ GSM850 MODE (251 CH.) Block Edge 2



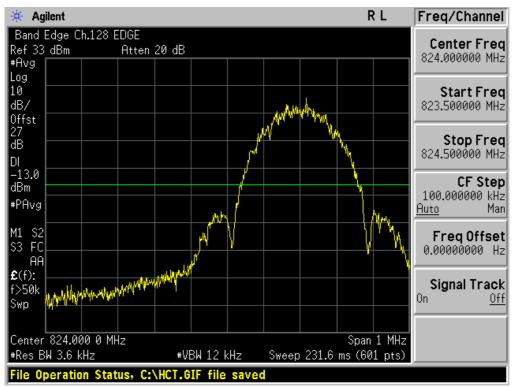
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			



R L Freq/Channel 🔆 Agilent Band Edge Ch.128 EDGE Mkr1 823.976 9 MHz **Center Freq** Ref 33 dBm Atten 20 dB -23.16 dBm 823.500000 MHz #Avg Log 10 Start Freq dB/ 823.000000 MHz Offst 27 Stop Freq dB 824.000000 MHz DI -13.0 dBm **CF** Step 100.000000 kHz #PAvg Man <u>Auto</u> M1 S2 S3 FC Freq Offset 0.0000000 Hz AA **£**(f): Signal Track f>50k 0n <u> 0ff</u> Swp Center 823.500 0 MHz Span 1 MHz #Res BW 3.6 kHz Sweep 231.6 ms (601 pts) #VBW 12 kHz Operation Status, C:\HCT.GIF file save

■ EDGE MODE (128 CH.) Block Edge 1

■ EDGE MODE (128 CH.) Block Edge 2



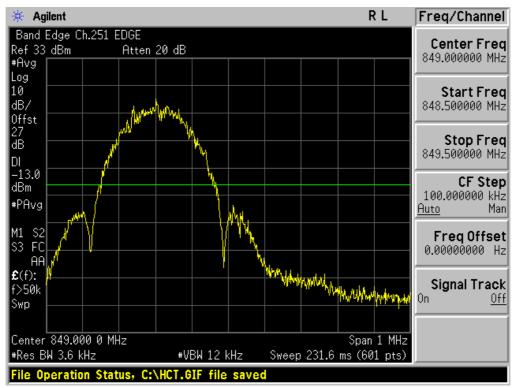
FCC CERTIFICATION REPORT			www.hct.co.kr
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		Dana 40 of 70	



🔆 Agilent		, .	RL	Freq/Channel
#Avg	E ten 20 dB		003 3 MHz 21.77 dBm	Center Freq 849.500000 MHz
Log 10 dB/ Offst				Start Freq 849.000000 MHz
27 dB DI				Stop Fred 850.000000 MHz
-13.0 dBm #PAvg				CF Step 100.000000 kHz <u>Auto</u> Mar
M1 S2 S3 FC AA				Freq Offset 0.00000000 Hz
€(f): f>50k Swp	waamin Madalan waxaa maa maa waxaa waxa	where we we have a start with the start way to a start with the start way to a start with the start way to a st	n waa waa waa	Signal Track On <u>Of</u> i
Center 849.500 0 MHz #Res BW 3.6 kHz	#VBW 12 kHz	Sweep 231.6 ms	pan 1 MHz (601 pts)	
File Operation Status,	C:\HCT.GIF file save	d		

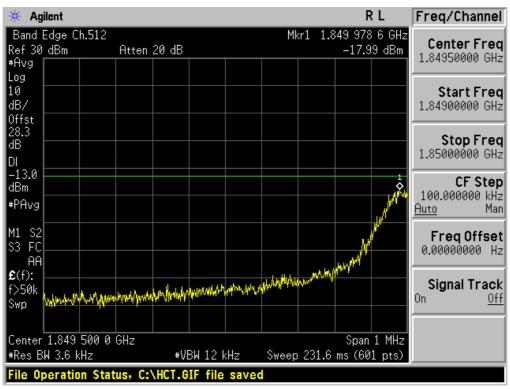
■ EDGE MODE (251 CH.) Block Edge 1

■ EDGE MODE (251 CH.) Block Edge 2



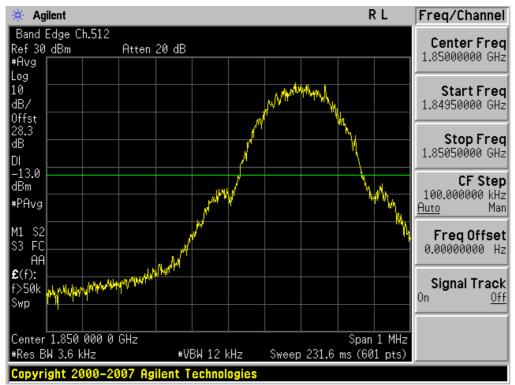
FCC CERTIFICATION REPORT			
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530





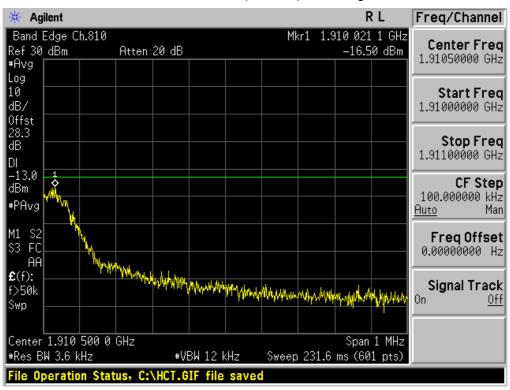
■ GSM1900 MODE (512 CH.) Block Edge 1

■ GSM1900 MODE (512 CH.) Block Edge 2



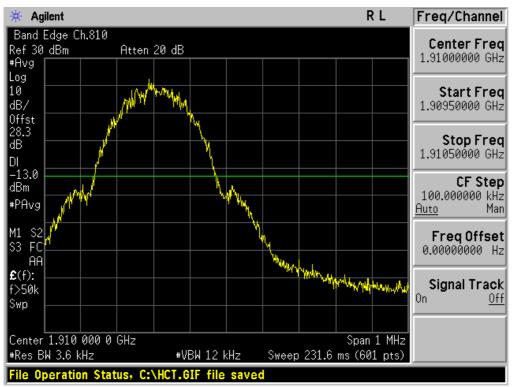
FCC CERTIFICATION REPORT			www.hct.co.kr
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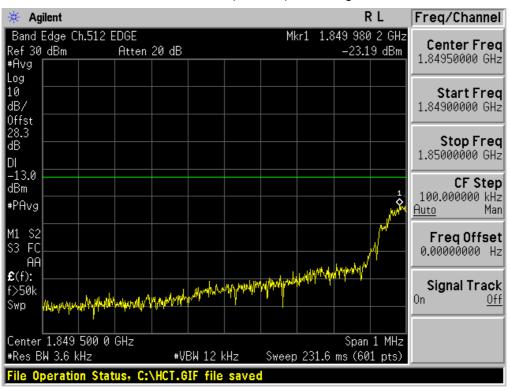
■ GSM1900 MODE (810 CH.) Block Edge 1

■ GSM1900 MODE (810 CH.) Block Edge 2



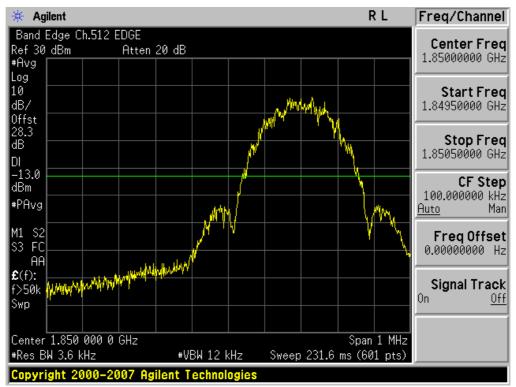
FCC CERTIFICATION REPORT			www.hct.co.kr	
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530	





■ EDGE MODE (512 CH.) Block Edge 1

■ EDGE MODE (512 CH.) Block Edge 2



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🔆 Agilent			RL	Freq/Channel
Band Edge Ch.810 Ref 30 dBm #Avg	9 EDGE Atten 20 dB	Mkr1	1.910 035 0 GHz -22.76 dBm	Center Freq 1.91050000 GHz
Log 10 dB/ Offst				Start Freq 1.91000000 GHz
28.3 dB DI				Stop Freq 1.91100000 GHz
-13.0 dBm <u>1</u> #PAvg				CF Step 100.000000 kHz <u>Auto</u> Man
M1 S2 S3 FC AA	40h u.			Freq Offset 0.00000000 Hz
€(f): f>50k Swp	n a wally have have had	nahahymun palpirahonahymu	mythallanayayatirdahada	Signal Track On <u>Off</u>
Center 1.910 500 #Res BW 3.6 kHz	0 GHz #VBW 1	.2 kHz Sweep 231	Span 1 MHz .6 ms (601 pts)	
File Operation St	atus, C:\HCT.GIF	file saved		

■ EDGE MODE (810 CH.) Block Edge 1

■ EDGE MODE (810 CH.) Block Edge 2



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🔄 Agilent			R L	Freq/Channe
Band Edge Ch.439 Ref 23 dBm Avg	57 Atten 10 dB		Mkr1 824.000 M _18.444 df	Contor Ero/
.og 0 IB/)ffst			and a second	Start Fred 820.500000 MH
27 IB DI				Stop Fred 827.500000 MH
-13.0 IBm PAvg	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\mathcal{A}		CF Step 700.000000 kH: <u>Auto</u> Ma
.00				Freq Offse 0.00000000 H
C(f): >50k Swp				Signal Tracl
Center 824.000 Mi Res BW 100 kHz		00 kHz _Sw	Span 7 M eep 2.12 ms (601 pt	

■ WCDMA850 MODE (4132 CH.) Block Edge

■ WCDMA850MODE (4233 CH.) Block Edge



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🔆 Agilent			,	RL	Freq/Channel
					r req/ channel
4MHz Span Ch.435 Ref 23 dBm #Avg	/ Atten 10 dB			23.000 MHz 4.932 dBm	Center Freq 821.000000 MHz
Log 10 dB/ Offst					Start Freq 819.000000 MHz
27 dB DI					Stop Fred 823.000000 MHz
-13.0 dBm #PAvg	and and an an an and an	brown water and an other second	an a	And and a second second	CF Step 400.000000 kHz <u>Auto</u> Mar
100 M1 S2 S3 FC AA					Freq Offset 0.00000000 Hz
E(f): Tun Swp					Signal Tracl On <u>Of</u>
Center 821.000 MH #Res BW 1 MHz		↓ 3 MHz	Sweep 1 ms) pan 4 MHz (601 pts)	
File Operation Sta				(001 pt3)	

■ WCDMA850 MODE (4132 CH.) – 4 MHz Span

■ WCDMA850MODE (4233 CH.) – 4 MHz Span



FCC CERTIFICATION REPORT			www.hct.co.kr	
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	Dere 50 - f 70			



🔆 Agilent				R L	Freq/Channel
Band Edge Ch.966 Ref 23 dBm #Avg	62 Atten 10 dB		Mkr1	1.850 000 GHz -18.689 dBm	Center Freq 1.85000000 GHz
Log 10 dB/			and particular and a	- and a construction of the	Start Freq 1.84650000 GHz
0ffst 28.3 dB DI					Stop Freq 1.85350000 GHz
-13.0 dBm		~~			CF Step 700.000000 kHz <u>Auto</u> Mar
100 M1 S2 S3 FS AA	and the second s				Freq Offset 0.00000000 Hz
€(f): f>50k Swp					Signal Track On <u>Of</u>
Center 1.850 000 #Res BW 100 kHz		300 kHz	Sween 212	Span 7 MHz 2 ms (601 pts)	
	atus, C:\HCT.GI				

■ WCDMA1900 MODE (9262 CH.) Block Edge

■ WCDMA1900 MODE (9538 CH.) Block Edge



		FCC CERTIFICATION REPORT	www.hct.co.kr
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			/		
🔆 Agilent				RL	Freq/Channel
4MHz Span Ch.9662 Ref 23 dBm #Avg	Atten 10 dB		Mkr1 1	1.849 000 GHz -15.824 dBm	Center Freq 1.84700000 GHz
Log 10 dB/ Offst					Start Freq 1.84500000 GHz
28.3 dB DI					Stop Freq 1.84900000 GHz
-13.0 dBm #PAvg 100	Another	and the second	and the second	Martin and a start of the start	CF Step 400.000000 kHz <u>Auto</u> Man
W1 S2 S3 FC AA					FreqOffset 0.00000000 Hz
£(f): FTun Swp					Signal Track ^{On <u>Off</u>}
Center 1.847 000 GH #Res BW 1 MHz		BW 3 MHz	Sweep 1	Span 4 MHz ms (601 pts)	
File Operation Stat	us, C:\HCT.GI	F file saved			

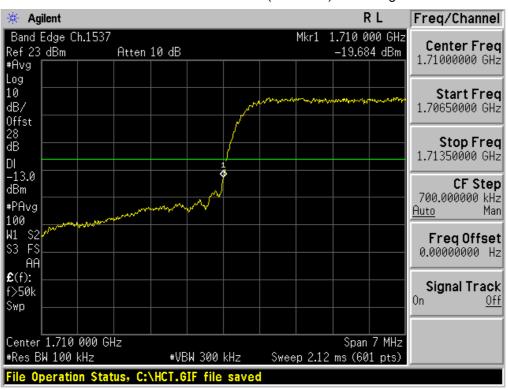
■ WCDMA1900 MODE (9262 CH.) – 4 MHz Span

■ WCDMA1900 MODE (9538 CH.) – 4 MHz Span



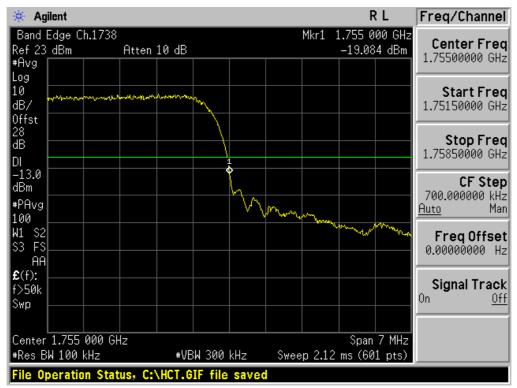
		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530
		Dega EE of 70	





■ WCDMA1700 MODE (1312 CH.) Block Edge

■ WCDMA1700 MODE (1513 CH.) Block Edge



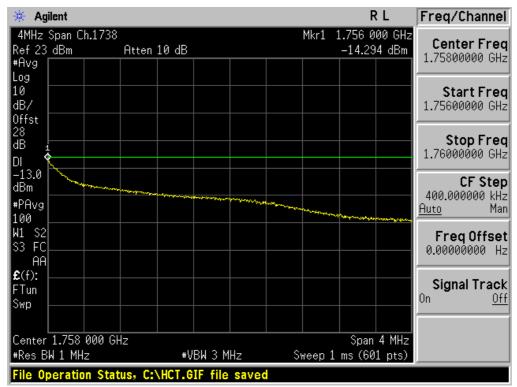
		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530



			, .	•	
🔆 Agilent				RL	Freq/Channel
4MHz Span Ch.1537 Ref 23 dBm #Avg	Atten 10 dB			.709 000 GHz -15.076 dBm	Center Freq 1.70700000 GHz
Log 10 dB/ Offst					Start Freq 1.70500000 GHz
28 dB DI					Stop Freq 1.70900000 GHz
-13.0 dBm #PAvg 100		and a start of the second start			CF Step 400.000000 kHz <u>Auto</u> Man
W1 S2 S3 FC AA					FreqOffset 0.00000000 Hz
£(f): FTun Swp					Signal Track ^{On <u>Off</u>}
Center 1.707 000 G #Res BW 1 MHz		W 3 MHz	Sweep 1 r	Span 4 MHz ns (601 pts)	
File Operation Stat	tus, C:\HCT.GI	F file saved			

■ WCDMA1700 MODE (1312 CH.) – 4 MHz Span

■ WCDMA1700 MODE (1513 CH.) – 4 MHz Span



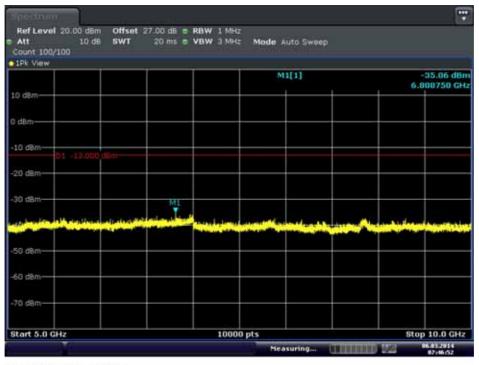
		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530
		Dogo EZ of Z0	



Ref Level 35.00 dBm Att 20 dB Count 100/100	Offset 27.00 dB e SWT 10 ms e	RBW 1 MHz VBW 3 MHz	Mode Auto Swee	P	
0 dBm			M1[1]		-28.44 dBr 4.778590 GH
0 dBm					
0 dBm		+			
dBm-					
10 dBm		\vdash			
01 -19.000 d					
30 d8m					M1
winter to the serve of the	Street Billing Billing	A ship to the state of	متعادية والجاخرين		
40 Gipm					
50 dBm					
50 dBm					
tart 30.0 MHz		10000	ots		Stop 5.0 GHz

■ GSM850 MODE (128 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:46:35



■ GSM850 MODE (128 CH.) Conducted Spurious Emissions2

Date: 6.MAB.2014 07:46:52

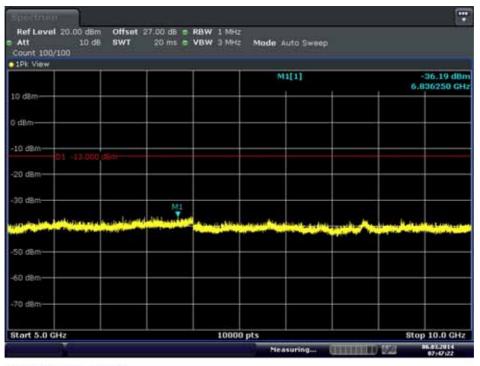
		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530
		Dogo E9 of 70	



Ref Level 35.00 dBm Att 20 dB Count 100/100	Offset 27.00 dB m SWT 10 ms e	VBW 3 MHz	Mode Auto Swee	P	
0 dBm			M1[1]		-27.60 dBr 4.985340 GH
0 d8m					
0 dBm					
dBm					
10 dBm					
01 -13 000 d	ên:				
30 dBm	ullin Lange Live Live Live	A Little of the second second	and a Different of the later of the	() It all the second second	Philaphia Physiolic
Au dam			and the second second		
50 dBm					
60 dBm					
tart 30.0 MHz		10000 5	ots		Stop 5.0 GHz

■ GSM850 MODE (190 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:47:05



■ GSM850 MODE (190 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:47:22

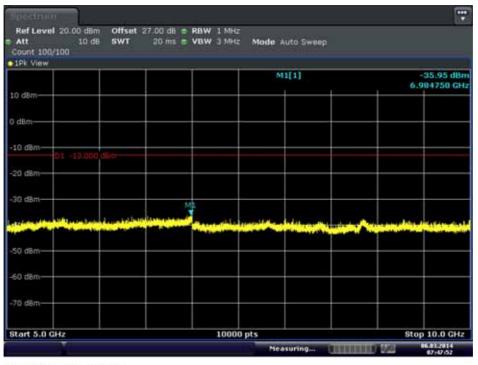
		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530
		Page 50 of 72	



Ref Level 35.00 dBm Of Att 20 dB SV Count 100/100	fset 27.00 dB = RBW 1 VT 10 ms = VBW 3			
30 dBm		M1[1]		-28.48 dBn 164290 GH
20 dBm				
0 dBm				
) dBm				
10 dBm 01 -13 000 dBm				
20.dBm			M1	
30 dBm	TRANSPORT FOR STREET	والمالية والمستركة المحصار والمعالية والمعالية		
au dalar				
50 dBm				
60 dBm				
Start 30.0 MHz	10	1000 pts	st	op 5.0 GHz

■ GSM850 MODE (251 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:47:35

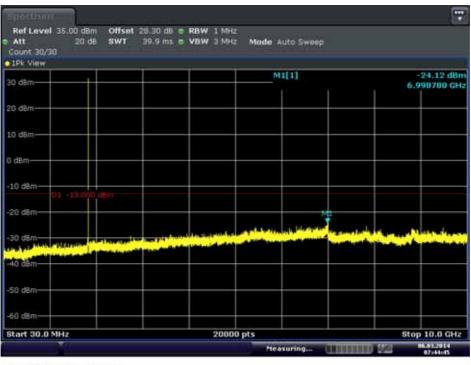


■ GSM850 MODE (251 CH.) Conducted Spurious Emissions2

Date: 6.MAB.2014 07:47:52

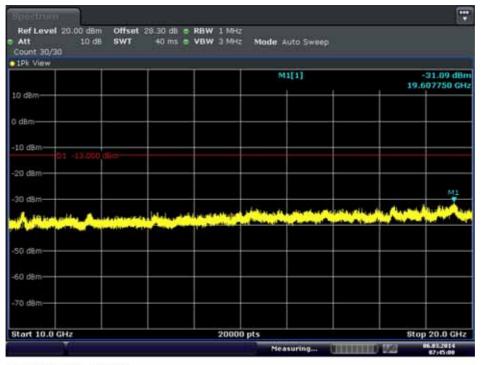
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:44:45

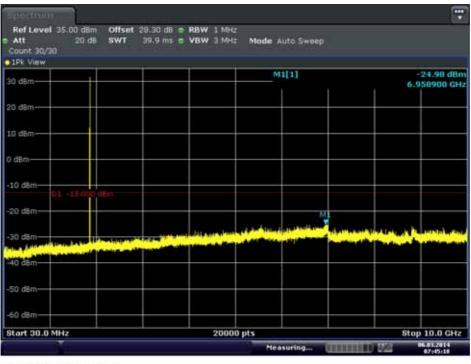


■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:45:00

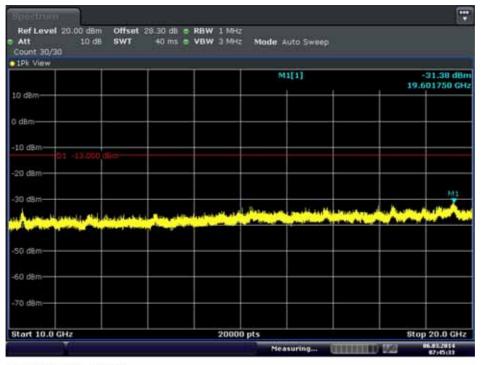
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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■ GSM1900 MODE (661 CH) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:45:18

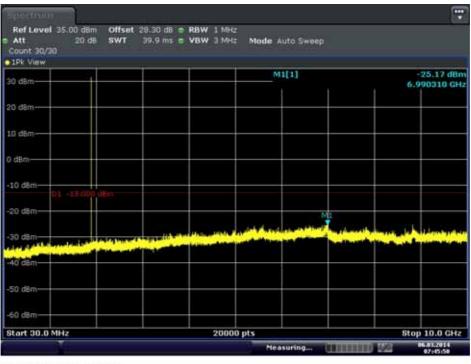


■ GSM1900 MODE (661 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:45:33

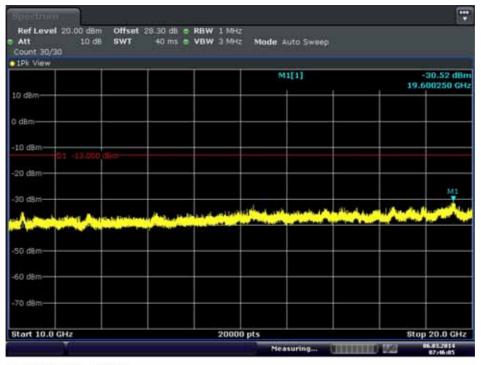
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:45:50



■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions2

Date: 6.MAB.2014 07:46:05

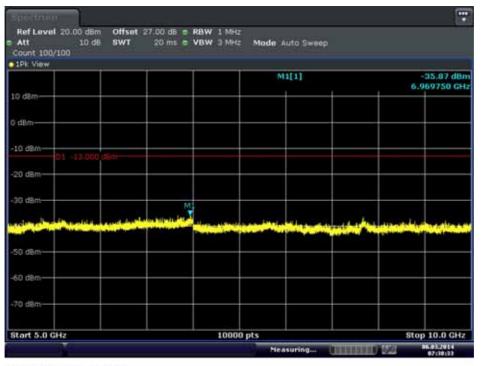
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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.... Ref Level 35.00 dBm Offset 27.00 dB e RBW 1 MHz Att 20 dB SWT 10 ms e VBW 3 MHz Att Count 100/100 Mode Auto Sweep 1Pk View -28.44 dBm 4.511700 GHz M1[1] 30 dBm 20 d8m 10 dām 0 dBm -10 dBri 20 dB M1 30 dBr and in street, or a tolin talk a in field -50 dBm -60 dBm Stop 5.0 GHz Start 30.0 MHz 10000 pts 07:38:17 Measuring

■ WCDMA850 MODE (4132 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:38:17



■ WCDMA850 MODE (4132 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:38:33

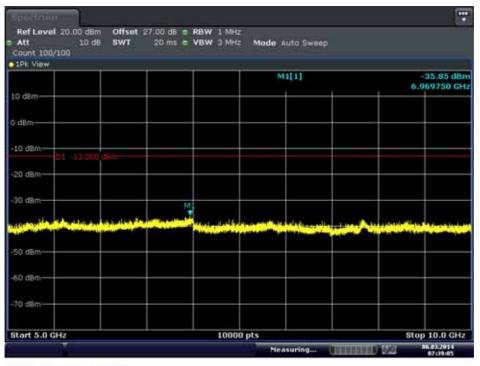
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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.... Ref Level 35.00 dBm Offset 27.00 dB RBW 1 MHz Att 20 dB SWT 10 ms e VBW 3 MHz Att Count 100/100 Mode Auto Sweep 1Pk View -27.27 d8m 4.793500 GHz M1[1] 30 dBm 20 d8m 10 dām 0 dBm -10 dBm 1 -20 dBr MI 30 dBr Address of the Low Providence Li Catalantal 1 bentilet? -50 dBm -60 dBm Stop 5.0 GHz Start 30.0 MHz 10000 pts 07:38:48 Measuring.

WCDMA850 MODE (4183 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:38:48



■ WCDMA850 MODE (4183 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:39:04

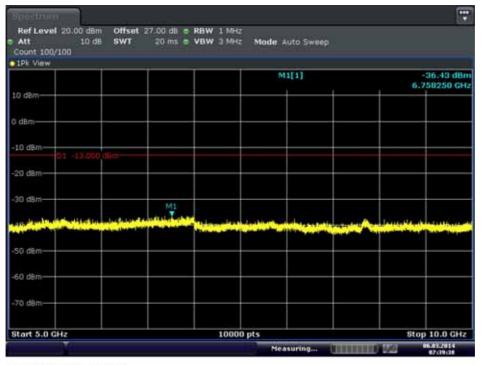
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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.... Ref Level 35.00 dBm Offset 27.00 dB e RBW 1 MHz Att 20 dB SWT 10 ms e VBW 3 MHz Att Count 100/100 Mode Auto Sweep 1Pk View M1[1] -28.59 dBm 30 dBm 4.616070 GHz 20 d8m 10 dām 0 dBm -10 dBm ľ -20 dBr MI V 30 dBr Mar and I want of States in Fr 10 in the second -50 dBm -60 dBm Stop 5.0 GHz Start 30.0 MHz 10000 pts 05.03.2014 07:39:21 Measuring. CONTRACTOR OF STREET, STRE

WCDMA850MODE (4233 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:39:21

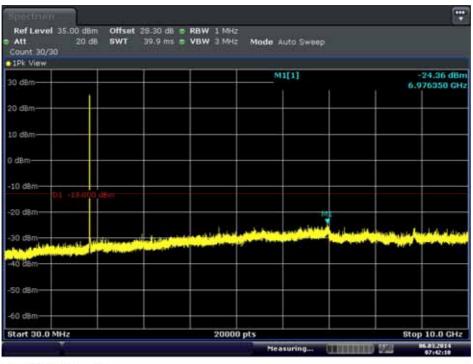


■ WCDMA850MODE (4233 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:39:38

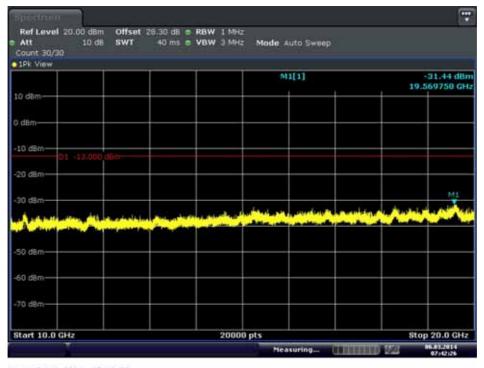
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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■ WCDMA1900 MODE (9262 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:42:10



■ WCDMA1900 MODE (9262 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:42:26

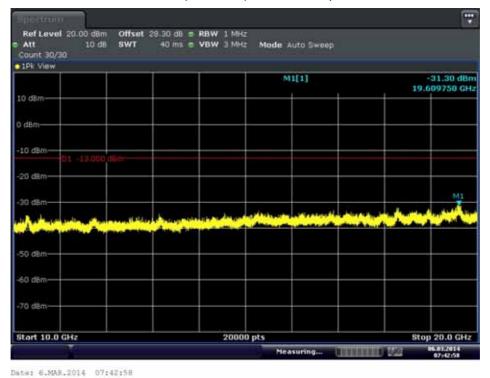
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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■ WCDMA1900 MODE (9400 CH.) Conducted Spurious Emissions1

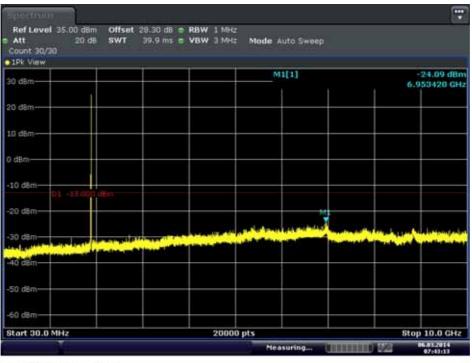
Date: 6.MAR.2014 07:42:42



■ WCDMA1900 MODE (9400 CH.) Conducted Spurious Emissions2

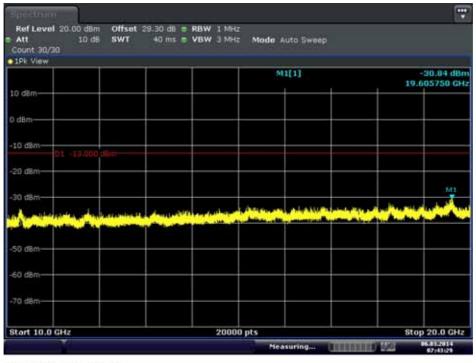
FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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■ WCDMA1900 MODE (9538 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:43:13



■ WCDMA1900 MODE (9538 CH.) Conducted Spurious Emissions2

Date: 6.MAB.2014 07:43:29

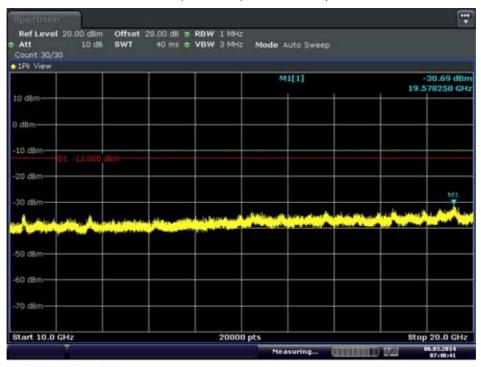
■ WCDMA1700 MODE (1312 CH.) Conducted Spurious Emissions1

FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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		Mode A	uto Sweep			
		M	1[1]			25.68 dBr
G dein						
		and a line	M1	all submits of the	a la su la da	
				the state	Two of	and the second
		a dem	a dem		B dem	6.5

Date: 6.MAR.2014 07:40:26



■ WCDMA1700 MODE (1312 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:40:41

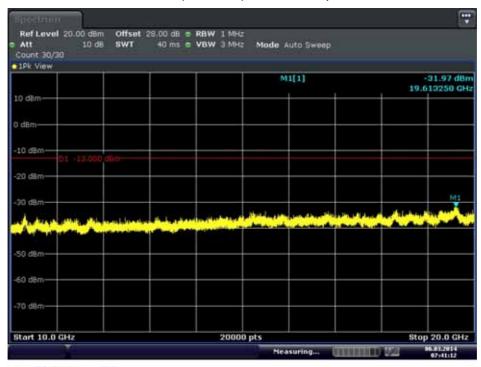
■ WCDMA1700 MODE (1412 CH.) Conducted Spurious Emissions1

FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019						
	Page 70 of 72					



Ref Level 35 Att Count 30/30	5.00 dBm 20 dB		RBW 1 MHz VBW 3 MHz		uto Sweep				
30 dBm				M	M1[1]			-25.03 d8 6.995630 GH	
20 d8m									
0 dBm	-++								
) dBm									
10.dBm-01	-13 000 d	ŧn	 						
20 dBm	+				in the ball of the				
30 d8m	Landi Ada	- North		ANIMA	The local division of	the state of the	Barth and	-	
40 BBm									
50.dBm									
60 d8m									
Start 30.0 MH	z		22000) pts				10.0 GHz 6.03.2014 97:40:57	

Date: 6.MAR.2014 07:40:57



■ WCDMA1700 MODE (1412 CH.) Conducted Spurious Emissions2

Date: 6.MAR.2014 07:41:12

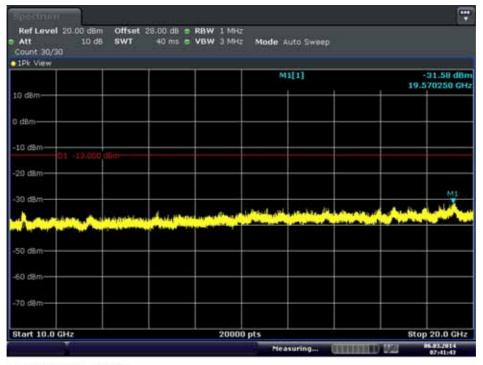
FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530	
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.... Ref Level 35.00 dBm Offset 28.00 dB RBW 1 MHz Att 20 dB SWT 39.9 ms e VBW 3 MHz Count 30/30 Mode Auto Sweep 1Pk View M1[1] -25.23 dBm 30 dBm 6.558760 GHz 20 d8m 10 dām 0 dBm -10 dBm -20 dBr Mi T 30 d8: an see -50 dBm -60 dBm Stop 10.0 GHz Start 30.0 MHz 22000 pts 05.03.2014 Measuring. CONTRACTOR OF

WCDMA1700 MODE (1513 CH.) Conducted Spurious Emissions1

Date: 6.MAR.2014 07:41:28



■ WCDMA1700 MODE (1513 CH.) Conducted Spurious Emissions2

Date: 6.MAB.2014 07:41:43

FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F019	Date of Issue: March 14, 2014	EUT Type: Mobile Phone	FCC ID: V65C6530			
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