



PCTEST ENGINEERING LABORATORY, INC.

6660-B Dobbin Road, Columbia, MD 21045 USA

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CERTIFICATE OF COMPLIANCE

FCC Part 22 & 24 Certification

Applicant Name:

Samsung Electronics, Co. Ltd.
18600 Broadwick St.
Rancho Dominguez, CA 90220
United States

Date of Testing:

April 17, 2008 - April 18, 2008

Test Site/Location:

PCTEST Lab., Columbia, MD, USA

Test Report Serial No.:

0804070421.A3L

FCC ID:

A3LSCHI770

APPLICANT:

SAMSUNG ELECTRONICS, CO. LTD.

Application Type:

Certification

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part(s):

§2; §22(H), §24(E)

EUT Type:

850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN

Model(s):

SCH-I770

Tx Frequency Range:

824.20 - 848.80MHz (Cell. GSM) / 1850.20 - 1909.80MHz (PCS GSM)

824.70 - 848.31MHz (Cell. CDMA) / 1851.25 - 1908.75MHz (PCS CDMA)

Max. RF Output Power:

1.119 W ERP Cell. GSM (30.49 dBm) / 1.578 W EIRP PCS GSM (31.98 dBm)

0.187 W ERP Cell. CDMA (22.73 dBm) / 0.402 W EIRP PCS CDMA (26.04 dBm)

Emission Designator(s):

249KGXW (Cellular GSM), 246KGXW (PCS GSM)

1M28F9W (Cellular CDMA), 1M29F9W (PCS CDMA)

Test Device Serial No.:

identical prototype [S/N: FF-055-C]

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

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Grant Conditions: Power output listed is ERP for Part 22 and EIRP for Part 24.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Ortanez
President

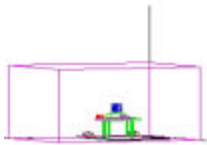


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Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN	Page 1 of 55

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MEASUREMENT REPORT

FCC Part 22 & 24



§2.1033 General Information

APPLICANT: Samsung Electronics, Co. Ltd.
APPLICANT ADDRESS: 18600 Broadwick St.
 Rancho Dominguez, CA 90220
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §22(H), §24(E)
BASE MODEL : SCH-I770
FCC ID: A3LSCHI770
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

EMISSION DESIGNATOR(S): 249KGXW (Cellular GSM), 246KGXW (PCS GSM)
 1M28F9W (Cellular CDMA), 1M29F9W (PCS CDMA)

MODE: GSM/CDMA/EvDO
FREQUENCY TOLERANCE: $\pm 0.00025\%$ (2.5 ppm)
Test Device Serial No.: FF-055-C ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: April 17, 2008 - April 18, 2008
TEST REPORT S/N: 0804070421.A3L

Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (IC-2451).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025:2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

1.2 Testing Facility

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity area, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 27, 2006 and Industry Canada.

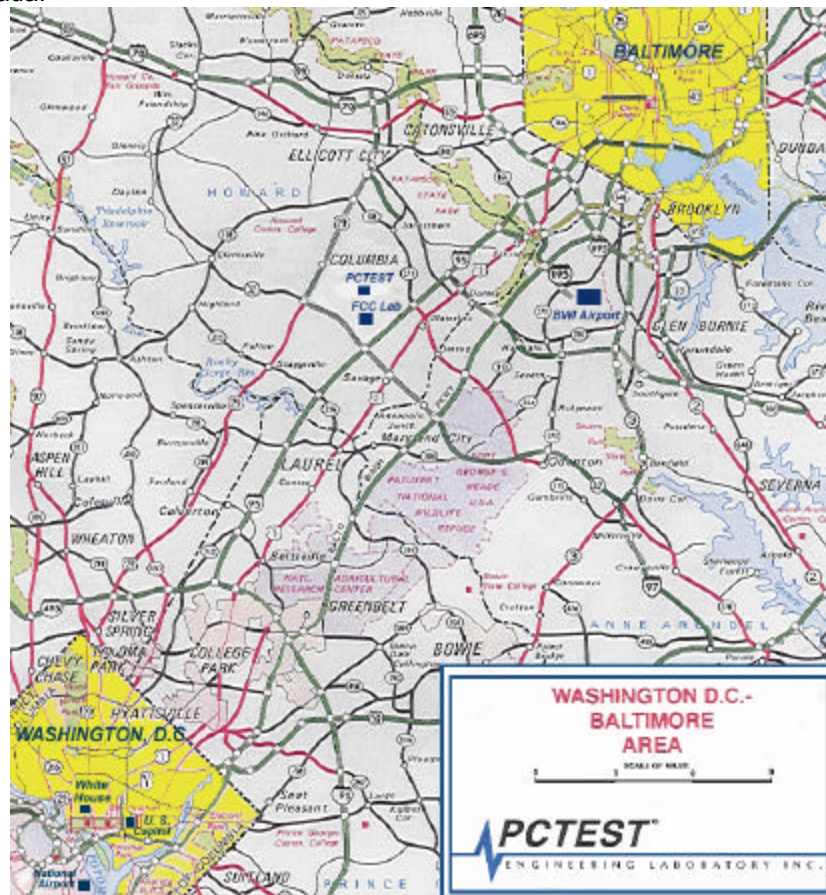


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN FCC ID: A3LSCHI770**. The EUT consisted of the following component(s):

Trade Name / Base Model	FCC ID	Description
Samsung / Model: SCH-I770	A3LSCHI770	850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN

Table 2-1. EUT Equipment Description

2.2 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

2.3 Labeling Requirements

Per 2.925

The FCC identifier shall be permanently affixed to the equipment and shall be readily visible to the purchaser at the time of purchase.

Per 15.19; Docket 95-19

In addition to this requirement, a device subject to certification shall be labeled as follows:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(b)(2).

Please see attachment for FCC ID label and label location.

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3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (see Figure 3-1). The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. 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. This level is recorded. 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.

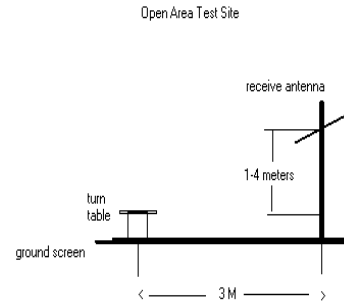


Figure 3-1. Diagram of 3-meter outdoor test range

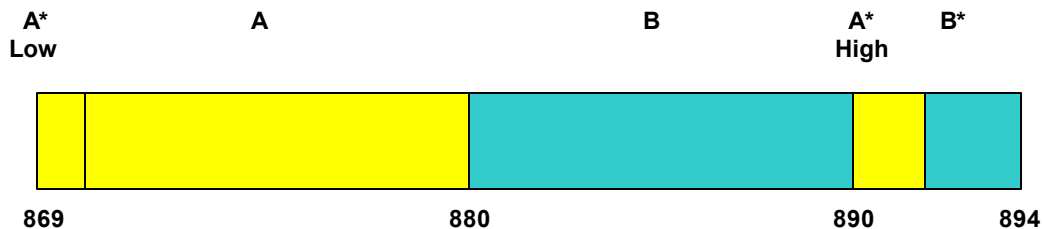
Deviation from Measurement Procedure.....None

3.2 Occupied Bandwidth Emission Limits

§2.1049, 22.917(a), 24.238(a)

- 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.
- Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, 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 emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

3.3 Cellular - Base Frequency Blocks

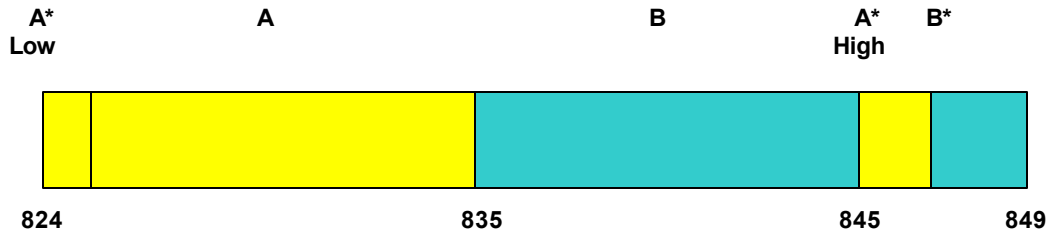


BLOCK 1: 869 – 880 MHz (A* Low + A)
BLOCK 2: 880 – 890 MHz (B)

BLOCK 3: 890 – 891.5 MHz (A* High)
BLOCK 4: 891.5 – 894 MHz (B*)

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3.4 Cellular - Mobile Frequency Blocks



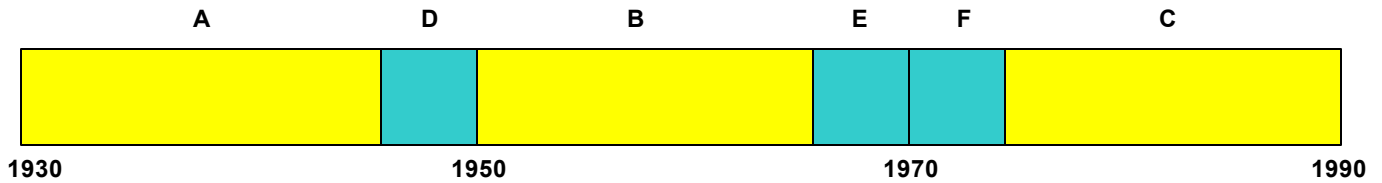
BLOCK 1: 824 – 835 MHz (A* Low + A)

BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 2: 835 – 845 MHz (B)

BLOCK 4: 846.5 – 849 MHz (B*)

3.5 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

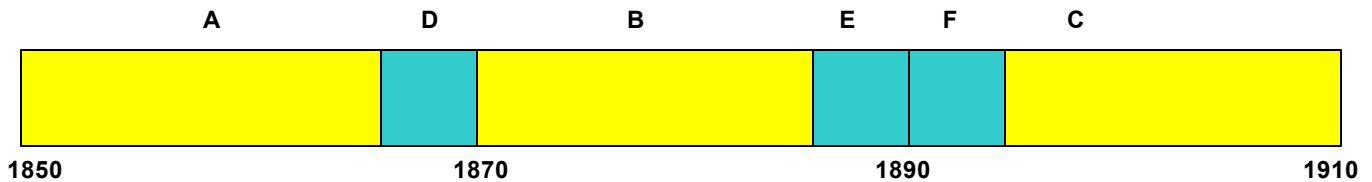
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

3.6 PCS - Mobile Frequency Blocks



BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 4: 1885 – 1890 MHz (E)

BLOCK 2: 1865 – 1870 MHz (D)

BLOCK 5: 1890 – 1895 MHz (F)

BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 6: 1895 – 1910 MHz (C)

3.7 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, 22.917(a), 24.238(a)

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

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3.8 Radiated Spurious and Harmonic Emissions

§2.1053, 22.917(a), 24.238(a)

Spurious and harmonic radiated emissions are measured outdoors at our 3meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration. This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits.

3.9 Frequency Stability / Temperature Variation

§2.1055, 22.355, 24.235

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

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 ±0.00025% (±2.5 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. 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.
3. 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.

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4.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Calibration Date	Cal Interval	Calibration Due
-	263-10dB	(DC-18GHz) 10 dB Attenuator	N/A		N/A
-	No.165	(30MHz - 1000MHz) RG58 Coax Cable	N/A		N/A
-	No.166	(1000-26500MHz) Microwave RF Cable	N/A		N/A
-	No.167	(100kHz - 100MHz) RG58 Coax Cable	N/A		N/A
Agilent	8903B	Audio Analyzer	06/01/07	Annual	06/01/08
Agilent	11713A	Attenuation/Switch Driver	12/13/07	Annual	12/13/08
Agilent	8449B	(1-26.5GHz) Pre-Amplifier	12/13/07	Annual	12/12/08
Agilent	8495A	(0-70dB) DC-4GHz Attenuator	N/A		N/A
Agilent	85650A	Quasi-Peak Adapter	03/13/08	Annual	03/13/09
Agilent	8566B	(100Hz-22GHz) Spectrum Analyzer	12/13/07	Annual	12/13/08
Agilent	8566B	Opt. 462 Impulse Bandwidth	N/A	Annual	N/A
Agilent	8591A	(9kHz-1.8GHz) Spectrum Analyzer	09/18/07	Annual	09/18/08
Agilent	8648D	(9kHz-4GHz) Signal Generator	10/11/07	Biennial	10/10/09
Agilent	8901A	Modulation Analyzer	06/18/07	Annual	06/18/08
Agilent	E4407B	ESA Spectrum Analyzer	03/13/08	Annual	03/13/09
Agilent	E4432B	ESG-D Series Signal Generator	08/08/06	Biennial	08/07/08
Agilent	E4448A	(3Hz-50GHz) Spectrum Analyzer	01/24/08	Annual	01/24/09
Agilent	E5515C	Wireless Communications Test Set	10/06/06	Biennial	10/05/08
Agilent	E5515C	Wireless Communications Test Set	06/08/07	Biennial	06/08/09
Agilent	E5515C	Wireless Communications Test Set	08/31/07	Biennial	08/31/09
Agilent	E6651A	Mobile WiMAX Tester	08/23/07	Biennial	08/22/09
Agilent	E8257D	(250kHz-20GHz) Signal Generator	03/08/07	Biennial	03/08/09

Table 4-1. Test Equipment

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5.0 SAMPLE CALCULATIONS

GSM Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

CDMA Emission Designator

Emission Designator = 1M25F9W

CDMA BW = 1.25 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data) (Measured at the 99.75% power bandwidth)

Spurious Radiated Emission - PCS Band

Example: GSM Channel 512 PCS Mode 2nd Harmonic (3700.40 MHz)

The receive analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the receive analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm - (-24.80) = 50.3 dBc.

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6.0 TEST RESULTS

6.1 Summary

Company Name: Samsung Electronics, Co. Ltd.
 FCC ID: A3LSCHI770
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): GSM/CDMA/EvDO

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)					
2.1049, 22.917(a), 24.238(a)	Occupied Bandwidth	N/A	CONDUCTED	PASS	Section 7.0
2.1051, 22.917(a), 24.238(a)	Band Edge / Conducted Spurious Emissions	< 43 + log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions		PASS	Section 7.0
2.1046	GSM/CDMA Conducted Output Power	N/A		PASS	Section 6.2
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP (<6.3 Watts max. ERP (IC))	RADIATED	PASS	Section 6.3
24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP		PASS	Section 6.4
2.1053, 22.917(a), 24.238(a)	Undesirable Emissions	< 43 + log ₁₀ (P[Watts]) for all out-of-band emissions		PASS	Sections 6.5, 6.6, 6.7, 6.8
2.1055, 22.355, 24.235	Frequency Stability	< 2.5 ppm	CONDUCTED	PASS	Sections 6.9, 6.10, 6.11, 6.12
RECEIVER MODE (RX) / DIGITAL EMISSIONS					
15.107	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.107 limits or < RSS-Gen table 2 limits	LINE CONDUCTED	PASS	Pt. 15B Test Report
15.109	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.109 limits or < RSS-210 table 3 limits	RADIATED (30MHz-1GHz) (1-25 GHz)	PASS	Pt. 15B Test Report
RF EXPOSURE (SAR)					
2.1091 / 2.1093	SAR Test	1.6 W/kg (SAR Limit)	SAR	PASS	SAR Report

Table 6-1. Summary of Test Results

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)			Reviewed by: Quality Manager
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6.2 Conducted Output Power

§2.1046

A base station simulator (Rhode and Schwartz CMU200 and Agilent 8960) was used to establish communication with the **Samsung 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN FCC ID: A3LSCHI770**. The base station simulator parameters were set to produce the maximum power from the EUT. This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of “0” in the PCS Band and “5” in the Cellular Band. In CDMA mode, this phone was tested under all R.C.’s and S.O.’s and the worst case was reported with RC3/SO55 with “All Up” power control bits. The GSM conducted powers are reported below. CDMA conducted powers are reported in a separate document.

Band	Channel	GSM		GPRS	
		Power Control Level	Conducted Power	Uplink / Downlink Slots Used	Conducted Power
			[dBm]		[dBm]
Cellular	128	5	32.50	1/1	32.30
	190	5	32.40	1/1	32.20
	251	5	32.10	1/1	31.90
PCS	512	0	29.70	1/1	29.50
	661	0	29.20	1/1	29.00
	810	0	29.40	1/1	29.10

Table 6-2. GSM Conducted Output Powers

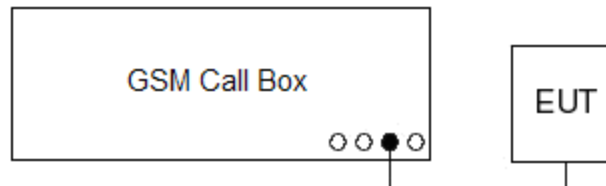


Figure 6-1. GSM/CDMA Conducted Power Test Setup Diagram

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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6.3 Effective Radiated Power Output Data

§22.913(a)(2)

POWER: PCL "5" (Cellular GSM Mode)

Frequency [MHz]	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBd]	Pol [H/V]	ERP [dBm]	ERP [Watts]	Battery Type
824.20	-8.140	29.46	0.00	H	29.46	0.883	Standard
836.60	-7.110	30.49	0.00	H	30.49	1.119	Standard
848.80	-7.810	29.79	0.00	H	29.79	0.953	Standard

Table 6-3. Effective Radiated Power Output Data (GSM)

POWER: All "1" bits (Cellular CDMA Mode)

Frequency [MHz]	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBd]	Pol [H/V]	ERP [dBm]	ERP [Watts]	Battery Type
824.70	-15.310	22.29	0.00	H	22.29	0.169	Standard
836.52	-14.870	22.73	0.00	H	22.73	0.187	Standard
848.31	-16.500	21.10	0.00	H	21.10	0.129	Standard

Table 6-4. Effective Radiated Power Output Data (CDMA)

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 = 5 MHz. 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 is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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6.4 Equivalent Isotropic Radiated Power Output Data

§24.232(c)

POWER: PCL "0" (PCS GSM Mode)

Frequency [MHz]	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBi]	Pol [H/V]	EIRP [dBm]	EIRP [Watts]	Battery Type
1850.20	-9.420	23.98	8.00	H	31.98	1.578	Standard
1880.00	-12.010	21.39	8.00	H	29.39	0.869	Standard
1909.80	-10.660	22.74	8.00	H	30.74	1.186	Standard

Table 6-5. Equivalent Isotropic Radiated Power Output Data (GSM)

POWER: All "1" bits (PCS CDMA Mode)

Frequency [MHz]	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBi]	Pol [H/V]	EIRP [dBm]	EIRP [Watts]	Battery Type
1851.25	-17.730	15.67	8.00	H	23.67	0.233	Standard
1880.00	-16.320	17.08	8.00	H	25.08	0.322	Standard
1908.75	-15.360	18.04	8.00	H	26.04	0.402	Standard

Table 6-6. Equivalent Isotropic Radiated Power Output Data (CDMA)

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 3meters 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 = 5 MHz. 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 is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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6.5 Cellular GSM Radiated Measurements

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.20 MHz
 CHANNEL: 128
 MEASURED OUTPUT POWER: 30.490 dBm = 1.119 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 43.49 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.40	-48.86	6.08	-42.77	H	73.3
2472.60	-47.29	6.53	-40.76	H	71.2
3296.80	-60.06	6.87	-53.19	H	83.7
4121.00	-92.62	7.21	-85.42	H	115.9
4945.20	-91.87	8.37	-83.50	H	114.0

Table 6-7. Radiated Spurious Data (Cellular GSM Mode – Ch. 128)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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Cellular GSM Radiated Measurements (Cont'd)

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.60 MHz
 CHANNEL: 190
 MEASURED OUTPUT POWER: 30.490 dBm = 1.119 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 43.49 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1673.20	-52.33	6.09	-46.24	H	76.7
2509.80	-56.31	6.55	-49.75	H	80.2
3346.40	-61.52	6.89	-54.63	H	85.1
4183.00	-92.84	7.43	-85.40	H	115.9
5019.60	-91.55	8.35	-83.20	H	113.7

Table 6-8. Radiated Spurious Data (Cellular GSM Mode – Ch. 190)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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Cellular GSM Radiated Measurements (Cont'd)

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.80 MHz
 CHANNEL: 251
 MEASURED OUTPUT POWER: 30.490 dBm = 1.119 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 43.49 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.60	-46.10	6.09	-40.01	H	70.5
2546.40	-56.56	6.57	-49.99	H	80.5
3395.20	-61.29	6.91	-54.38	H	84.9
4244.00	-60.79	7.65	-53.13	H	83.6
5092.80	-91.22	8.33	-82.89	H	113.4

Table 6-9. Radiated Spurious Data (Cellular GSM Mode – Ch. 251)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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6.6 Cellular CDMA Radiated Measurements

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 1013
 MEASURED OUTPUT POWER: 22.730 dBm = 0.187 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 35.73 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1649.40	-42.35	6.08	-36.27	H	59.0
2474.10	-59.25	6.08	-53.17	H	75.9
3298.80	-54.88	6.53	-48.35	H	71.1
4123.50	-94.73	6.87	-87.85	H	110.6
4948.20	-92.63	7.21	-85.42	H	108.1

Table 6-10. Radiated Spurious Data (Cellular CDMA Mode – Ch. 1013)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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Cellular CDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.52 MHz
 CHANNEL: 384
 MEASURED OUTPUT POWER: 22.730 dBm = 0.187 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 35.73 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1673.04	-48.93	6.09	-42.84	H	65.6
2509.56	-54.91	6.55	-48.35	H	71.1
3346.08	-94.61	6.89	-87.71	H	110.4
4182.60	-92.83	7.43	-85.40	H	108.1
5019.12	-91.55	8.35	-83.20	H	105.9

Table 6-11. Radiated Spurious Data (Cellular CDMA Mode – Ch. 384)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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Cellular CDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.31 MHz
 CHANNEL: 777
 MEASURED OUTPUT POWER: 22.730 dBm = 0.187 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 35.73 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1696.62	-52.41	6.09	-46.31	H	69.0
2544.93	-53.46	6.57	-46.89	H	69.6
3393.24	-94.49	6.91	-87.58	H	110.3
4241.55	-93.03	7.65	-85.39	H	108.1
5089.86	-91.23	8.33	-82.90	H	105.6

Table 6-12. Radiated Spurious Data (Cellular CDMA Mode – Ch. 777)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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6.7 PCS GSM Radiated Measurements

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1850.20 MHz
 CHANNEL: 512
 MEASURED OUTPUT POWER: 31.980 dBm = 1.578 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 44.98 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3700.40	-48.22	9.02	-39.21	H	71.2
5550.60	-37.79	10.40	-27.39	H	59.4
7400.80	-53.16	10.50	-42.65	H	74.6
9251.00	-48.71	11.85	-36.86	H	68.8
11101.20	-84.07	12.76	-71.31	H	103.3

Table 6-13. Radiated Spurious Data (PCS GSM Mode – Ch. 512)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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PCS GSM Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 661
 MEASURED OUTPUT POWER: 31.980 dBm = 1.578 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 44.98 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-50.66	8.99	-41.67	H	73.7
5640.00	-39.06	10.40	-28.66	H	60.6
7520.00	-53.10	10.62	-42.48	H	74.5
9400.00	-86.30	11.70	-74.60	H	106.6
11280.00	-83.32	12.69	-70.63	H	102.6

Table 6-14. Radiated Spurious Data (PCS GSM Mode – Ch. 661)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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PCS GSM Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1909.80 MHz
 CHANNEL: 810
 MEASURED OUTPUT POWER: 31.980 dBm = 1.578 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 44.98 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3819.60	-49.81	8.97	-40.84	H	72.8
5729.40	-35.45	10.40	-25.05	H	57.0
7639.20	-87.13	10.71	-76.42	H	108.4
9549.00	-50.29	11.64	-38.65	H	70.6
11458.80	-82.58	12.62	-69.96	H	101.9

Table 6-15. Radiated Spurious Data (PCS GSM Mode – Ch. 810)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

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Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 23 of 55

6.8 PCS CDMA Radiated Measurements

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1851.25 MHz
 CHANNEL: 25
 MEASURED OUTPUT POWER: 26.040 dBm = 0.402 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 39.04 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3702.50	-42.01	9.02	-33.00	H	59.0
5553.75	-32.58	10.40	-22.18	H	48.2
7405.00	-41.76	10.51	-31.25	H	57.3
9256.25	-86.51	11.84	-74.67	H	100.7
11107.50	-84.04	12.76	-71.29	H	97.3

Table 6-16. Radiated Spurious Data (PCS CDMA Mode – Ch. 25)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 24 of 55

PCS CDMA Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 600
 MEASURED OUTPUT POWER: 26.040 dBm = 0.402 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 39.04 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-34.16	8.99	-25.17	H	51.2
5640.00	-28.56	10.40	-18.16	H	44.2
7520.00	-42.20	10.62	-31.58	H	57.6
9400.00	-86.30	11.70	-74.60	H	100.6
11280.00	-83.32	12.69	-70.63	H	96.7

Table 6-17. Radiated Spurious Data (PCS CDMA Mode – Ch. 600)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 25 of 55

PCS CDMA Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1908.75 MHz
 CHANNEL: 1175
 MEASURED OUTPUT POWER: 26.040 dBm = 0.402 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 39.04 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3817.50	-38.42	8.97	-29.45	H	55.5
5726.25	-29.86	10.40	-19.46	H	45.5
7635.00	-42.83	10.71	-32.12	H	58.2
9543.75	-86.10	11.64	-74.47	H	100.5
11452.50	-82.61	12.62	-69.99	H	96.0

Table 6-18. Radiated Spurious Data (PCS CDMA Mode – Ch. 1175)

NOTES:

Radiated Spurious Emission 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 = 5 MHz. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device is tested under all configurations and the highest power is reported in GSM mode using Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. In CDMA mode, this phone was tested under all R.C.'s and S.O.'s and the worst case was reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 26 of 55

6.9 Cellular GSM Frequency Stability Measurements

§2.1055, 22.355

OPERATING FREQUENCY: 836,600,000 Hz

CHANNEL: 190

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

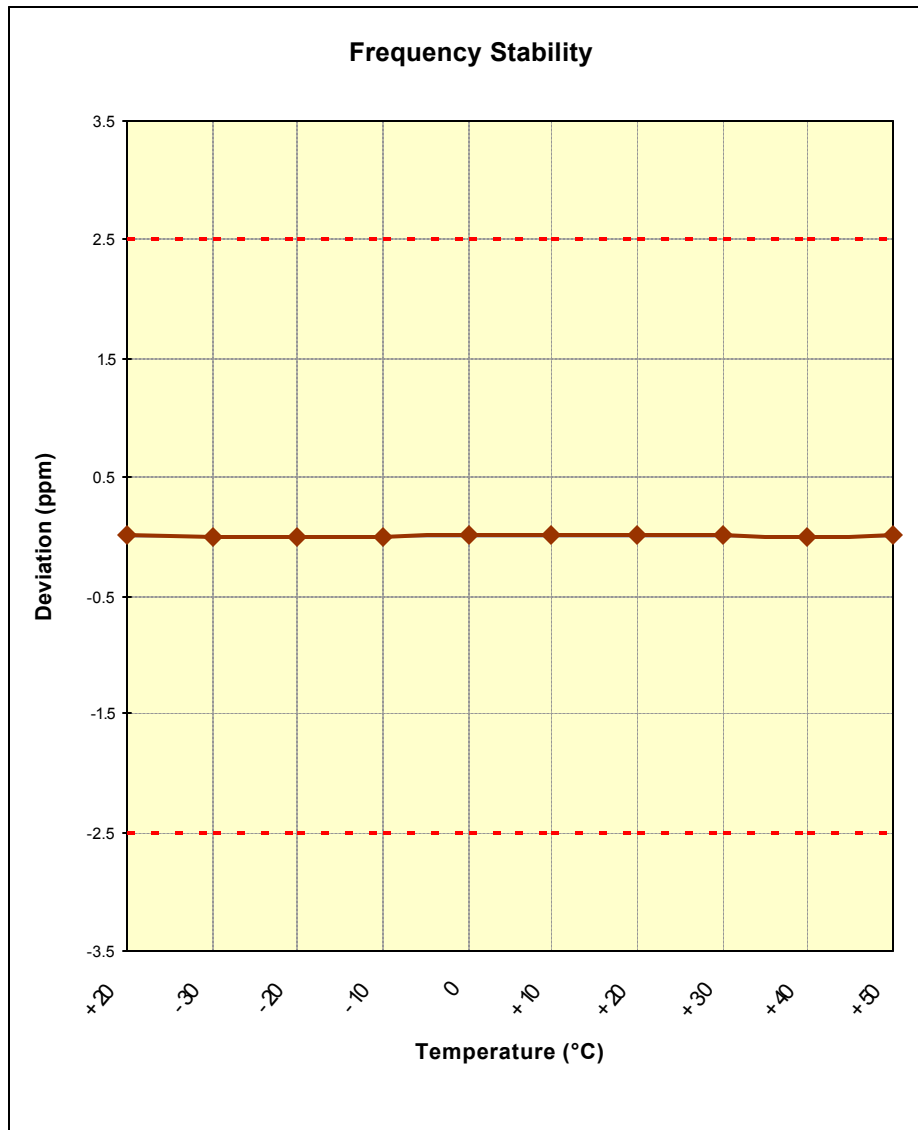
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	836,600,008	8	0.000001
100 %		- 30	836,600,000	0	0.000000
100 %		- 20	836,600,004	4	0.000000
100 %		- 10	836,600,007	7	0.000001
100 %		0	836,600,018	18	0.000002
100 %		+ 10	836,600,017	17	0.000002
100 %		+ 20	836,600,016	16	0.000002
100 %		+ 30	836,600,009	9	0.000001
100 %		+ 40	836,600,004	4	0.000000
100 %		+ 50	836,600,008	8	0.000001
115 %	4.26	+ 20	836,600,007	7	0.000001
BATT. ENDPOINT	3.42	+ 20	836,600,019	19	0.000002

Table 6-19. Frequency Stability Data (Cellular GSM Mode – Ch. 190)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 27 of 55

Cellular GSM Frequency Stability Measurements (Cont'd)

§2.1055, 22.355



Plot 6-1. Frequency Stability Graph (Cellular GSM Mode – Ch. 190)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 28 of 55

6.10 Cellular CDMA Frequency Stability Measurements

§2.1055, 22.355

OPERATING FREQUENCY: 836,520,000 Hz

CHANNEL: 384

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

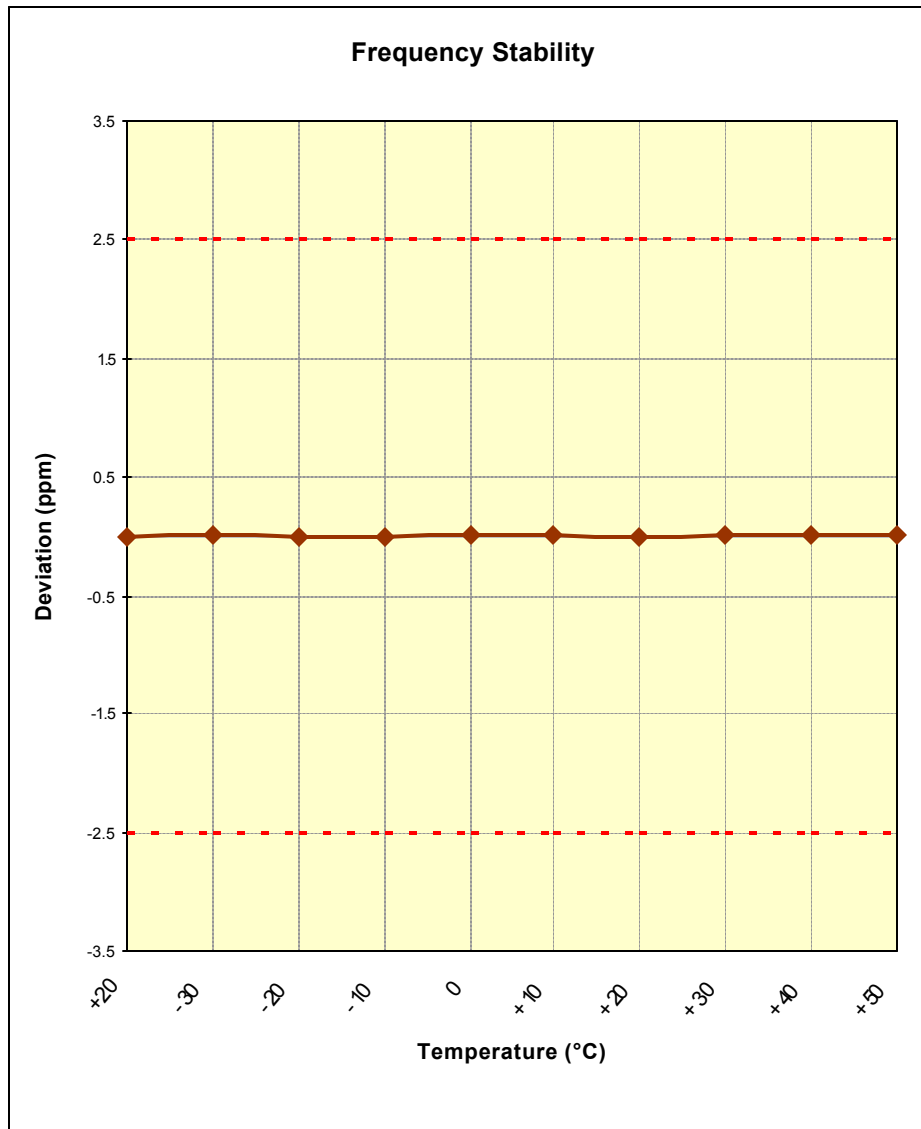
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	836,520,004	4	0.000000
100 %		- 30	836,520,009	9	0.000001
100 %		- 20	836,520,003	3	0.000000
100 %		- 10	836,520,006	6	0.000001
100 %		0	836,520,015	15	0.000002
100 %		+ 10	836,520,010	10	0.000001
100 %		+ 20	836,520,002	2	0.000000
100 %		+ 30	836,520,013	13	0.000002
100 %		+ 40	836,520,011	11	0.000001
100 %		+ 50	836,520,017	17	0.000002
115 %		+ 20	836,520,004	4	0.000000
BATT. ENDPOINT	3.41	+ 20	836,520,013	13	0.000001

Table 6-20. Frequency Stability Data (Cellular CDMA Mode – Ch. 384)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 29 of 55

Cellular CDMA Frequency Stability Measurements (Cont'd)

§2.1055, 22.355



Plot 6-2. Frequency Stability Graph (Cellular CDMA Mode – Ch. 384)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 30 of 55

6.11 PCS GSM Frequency Stability Measurements

§2.1055, 24.235

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 661

REFERENCE VOLTAGE: 3.7 VDC

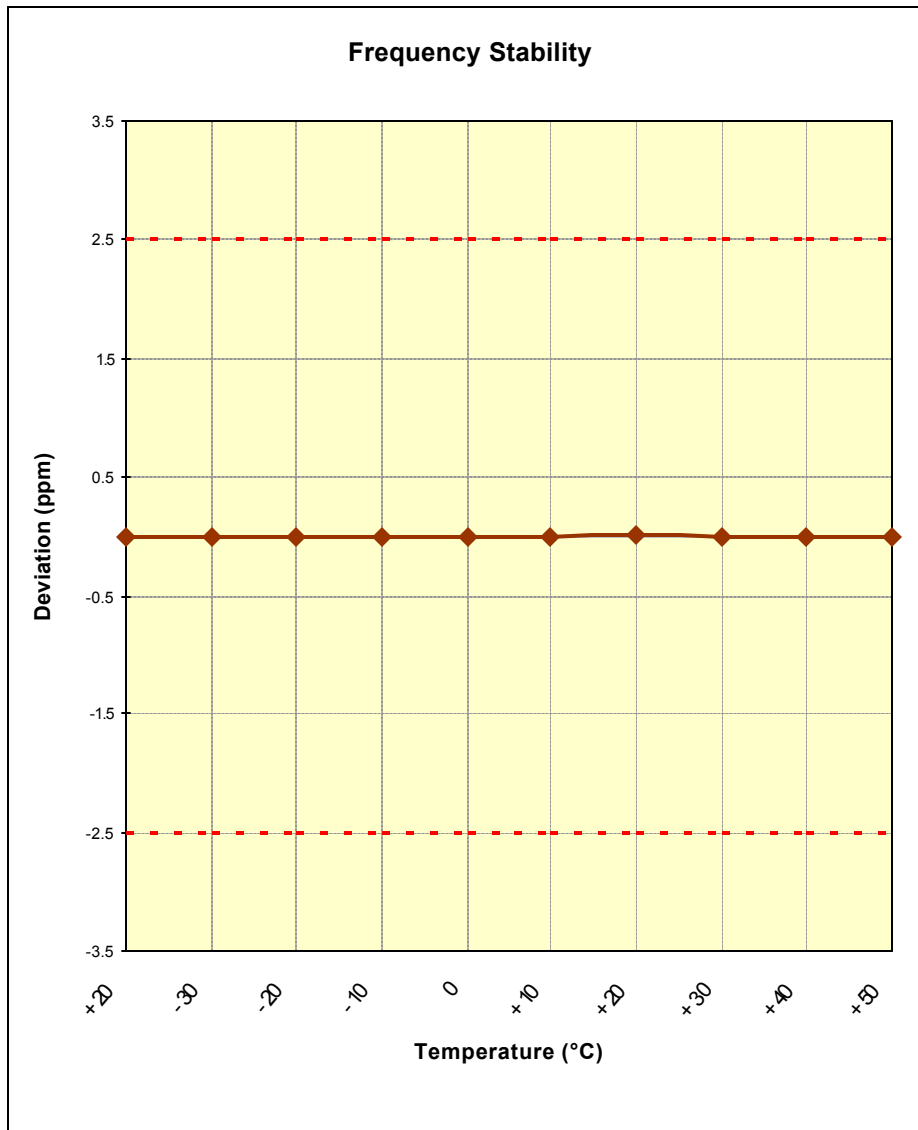
DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	1,880,000,009	9	0.000000
100 %		- 30	1,880,000,002	2	0.000000
100 %		- 20	1,880,000,007	7	0.000000
100 %		- 10	1,880,000,016	16	0.000001
100 %		0	1,880,000,002	2	0.000000
100 %		+ 10	1,880,000,006	6	0.000000
100 %		+ 20	1,880,000,019	19	0.000001
100 %		+ 30	1,880,000,004	4	0.000000
100 %		+ 40	1,880,000,011	11	0.000001
100 %		+ 50	1,880,000,015	15	0.000001
115 %	4.26	+ 20	1,880,000,012	12	0.000001
BATT. ENDPOINT	3.42	+ 20	1,880,000,015	15	0.000001

Table 6-21. Frequency Stability Data (PCS GSM Mode – Ch. 661)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 31 of 55

PCS GSM Frequency Stability Measurements (Cont'd)
§2.1055, 24.235



Plot 6-3. Frequency Stability Graph (PCS GSM Mode – Ch. 661)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 32 of 55

6.12 PCS CDMA Frequency Stability Measurements

§2.1055, 24.235

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 600

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

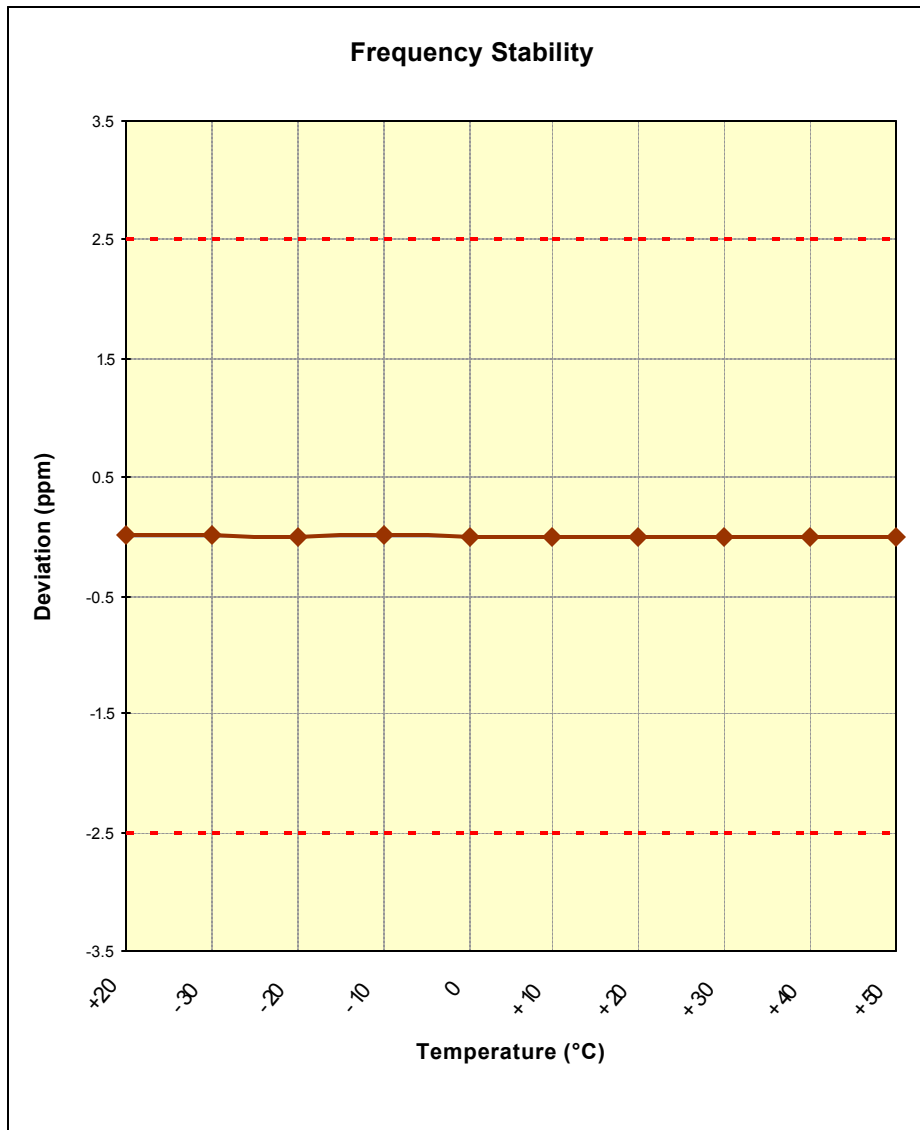
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	1,880,000,017	17	0.000001
100 %		- 30	1,880,000,017	17	0.000001
100 %		- 20	1,880,000,010	10	0.000001
100 %		- 10	1,880,000,018	18	0.000001
100 %		0	1,880,000,014	14	0.000001
100 %		+ 10	1,880,000,002	2	0.000000
100 %		+ 20	1,880,000,000	0	0.000000
100 %		+ 30	1,880,000,008	8	0.000000
100 %		+ 40	1,880,000,015	15	0.000001
100 %		+ 50	1,880,000,002	2	0.000000
115 %	4.26	+ 20	1,880,000,013	13	0.000001
BATT. ENDPOINT	3.41	+ 20	1,880,000,007	7	0.000000

Table 6-22. Frequency Stability Data (PCS CDMA Mode – Ch. 600)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS CDMA Frequency Stability Measurements (Cont'd)

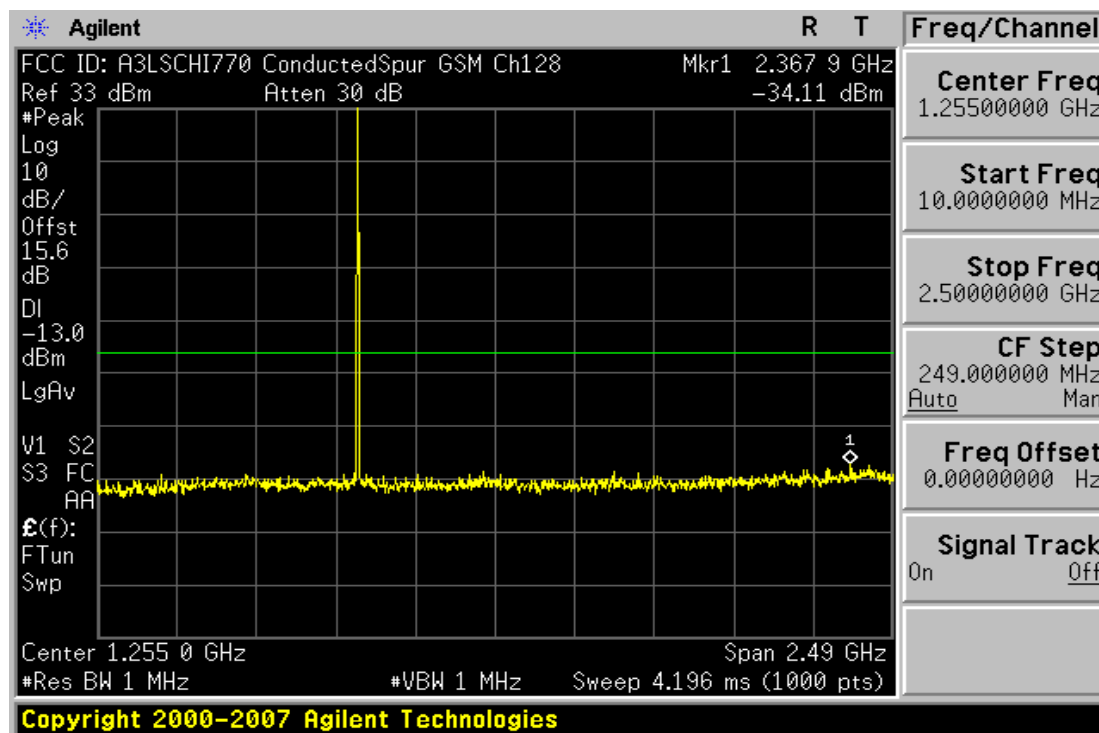
§2.1055, 24.235



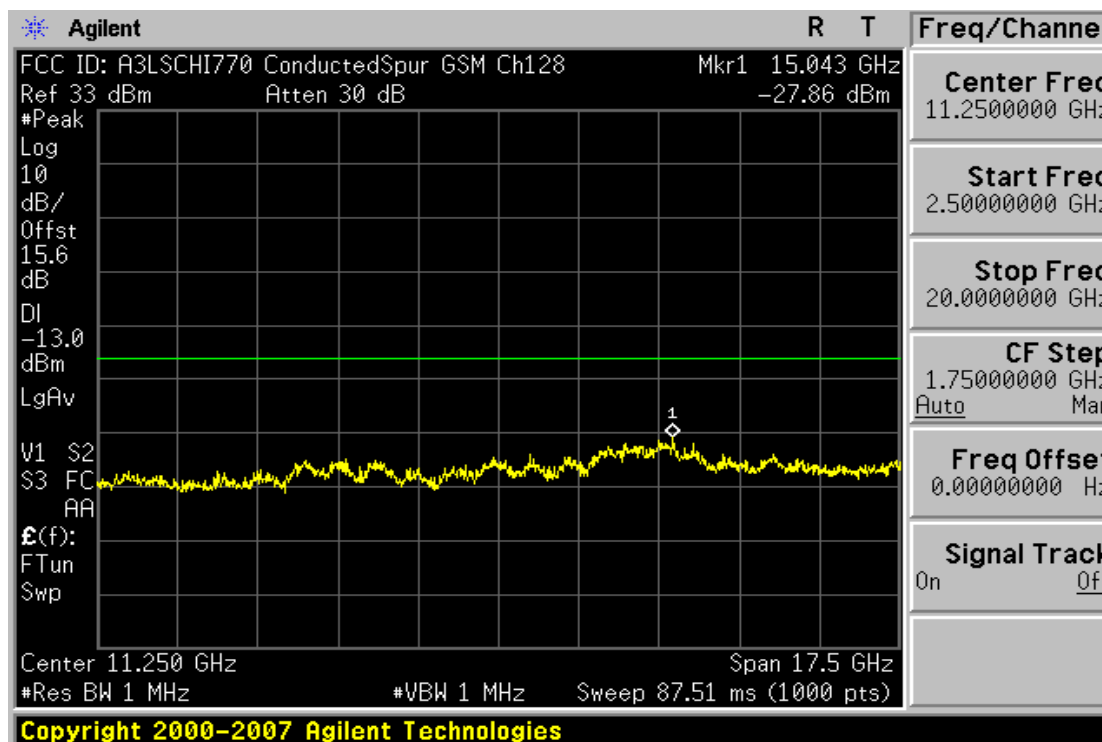
Plot 6-4. Frequency Stability Graph (PCS CDMA Mode – Ch. 600)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 34 of 55

7.0 PLOTS OF EMISSIONS

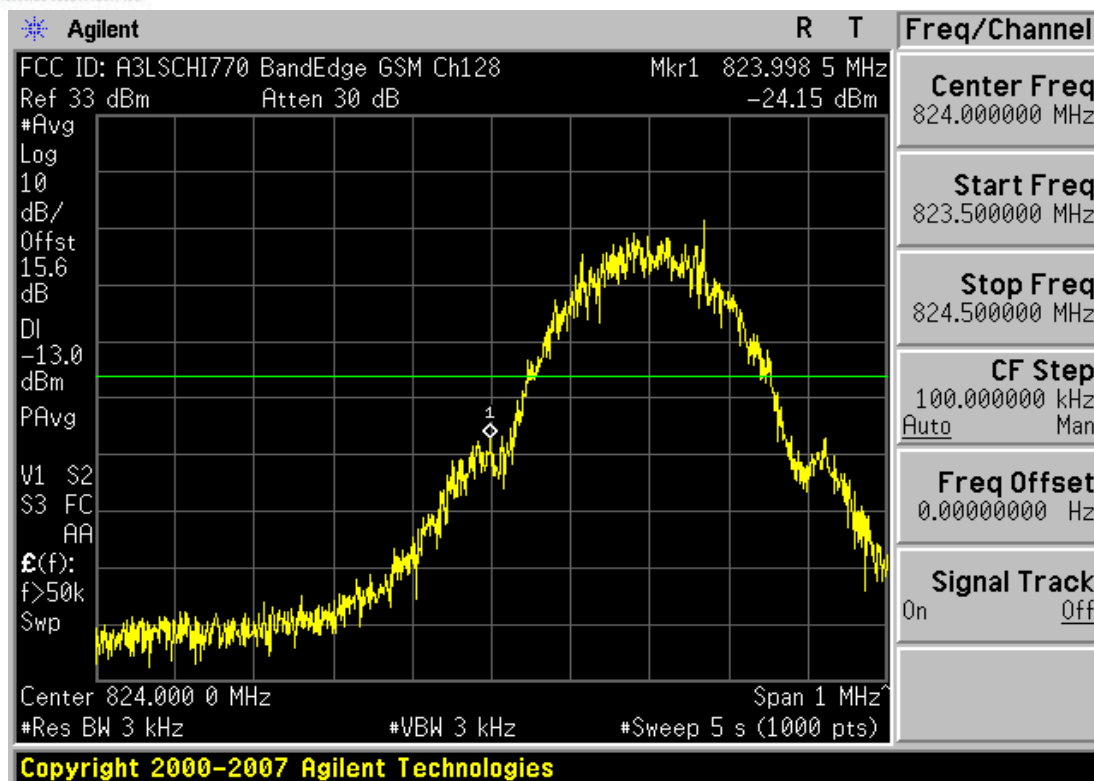


Plot 7-1. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)

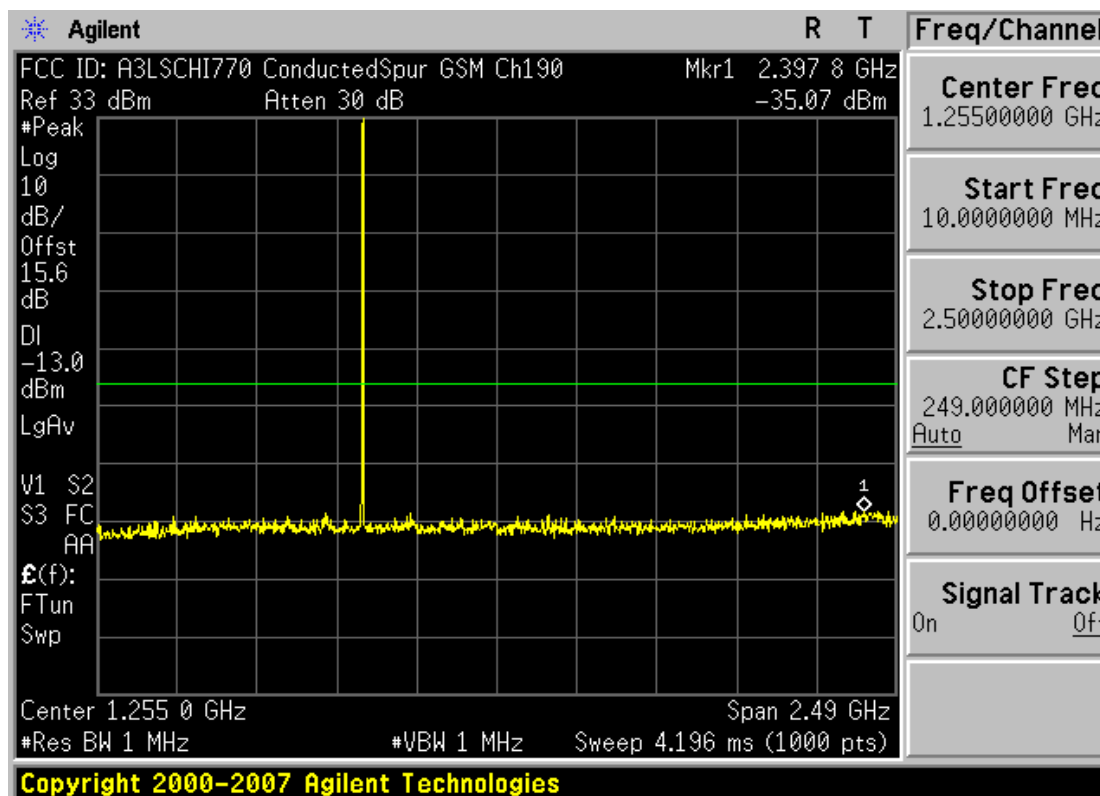


Plot 7-2. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 35 of 55

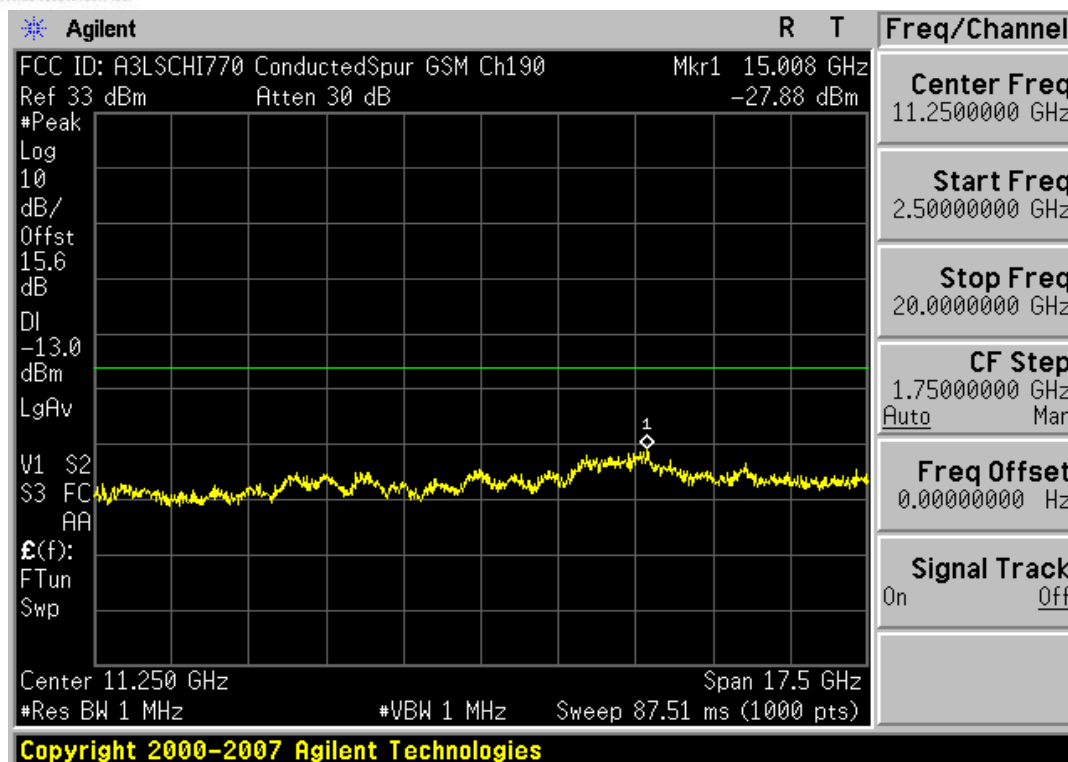


Plot 7-3. Band Edge Plot (Cellular GSM Mode – Ch. 128)

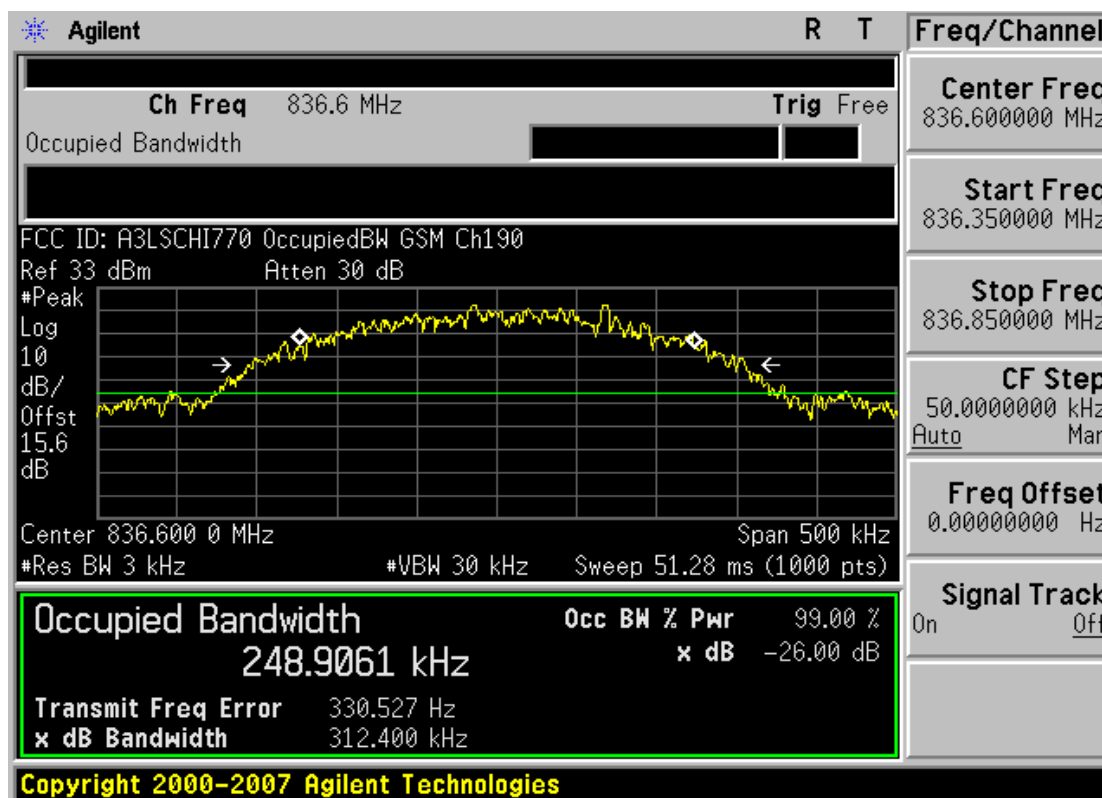


Plot 7-4. Conducted Spurious (Cellular GSM Mode – Ch. 190)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 36 of 55

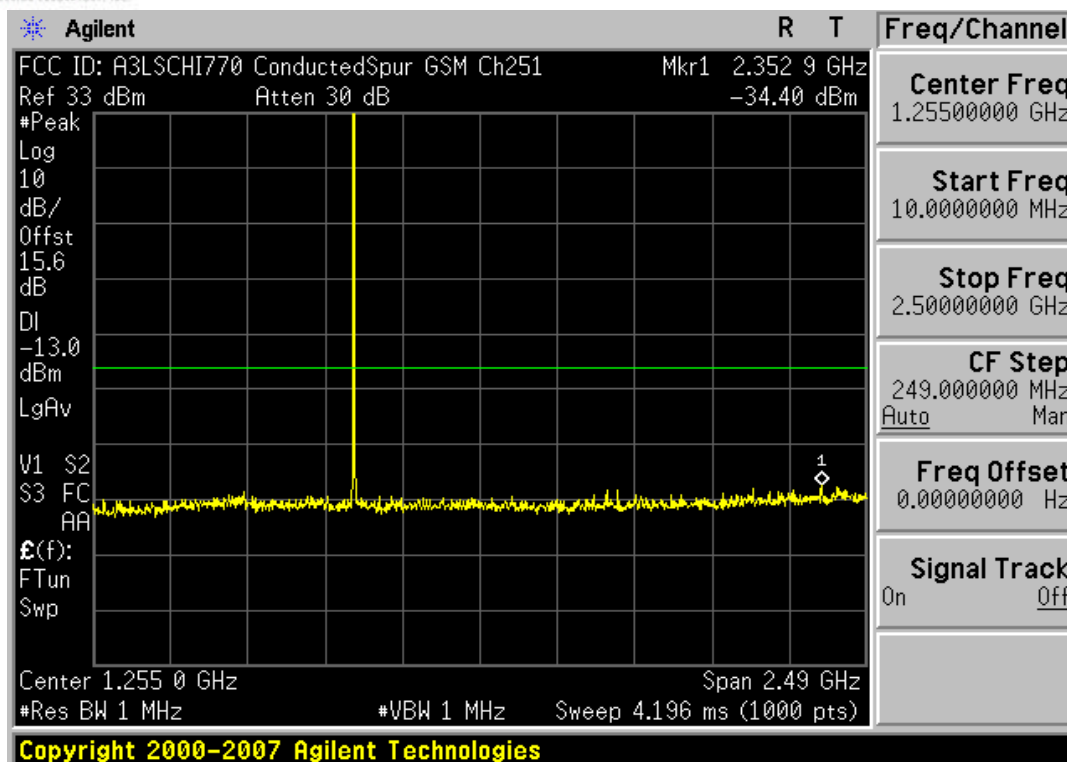


Plot 7-5. Conducted Spurious Plot (Cellular GSM Mode – Ch. 190)

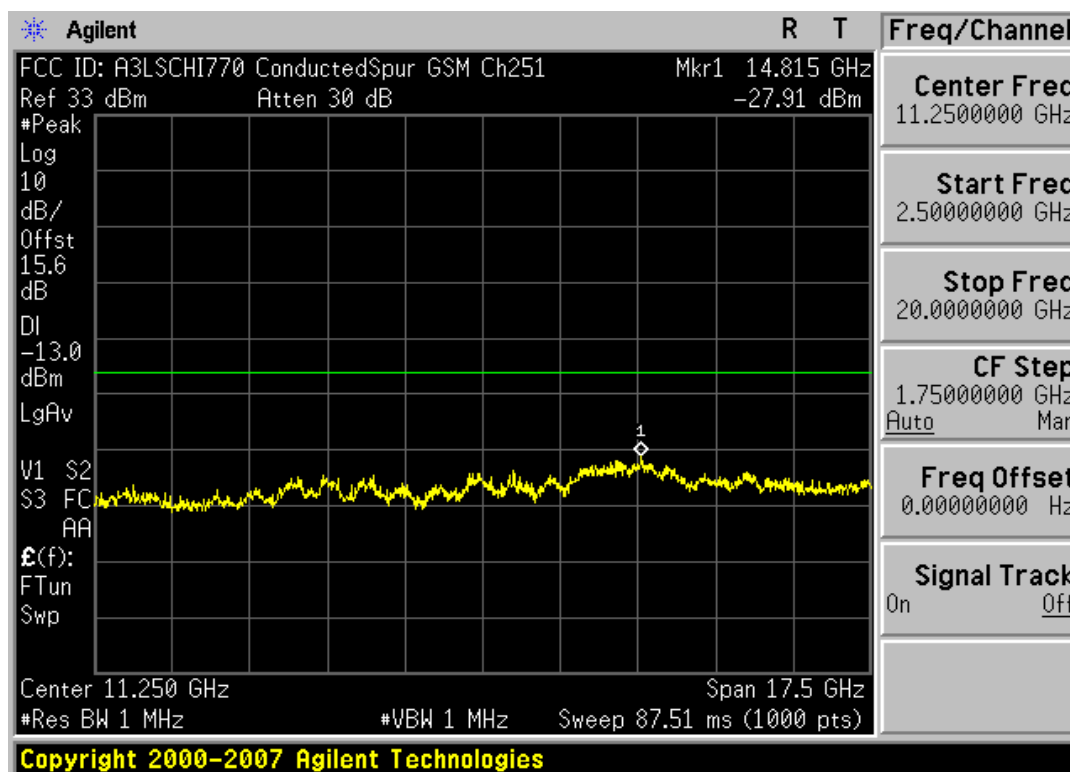


Plot 7-6. Occupied Bandwidth Plot (Cellular GSM Mode – Ch. 190)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 37 of 55

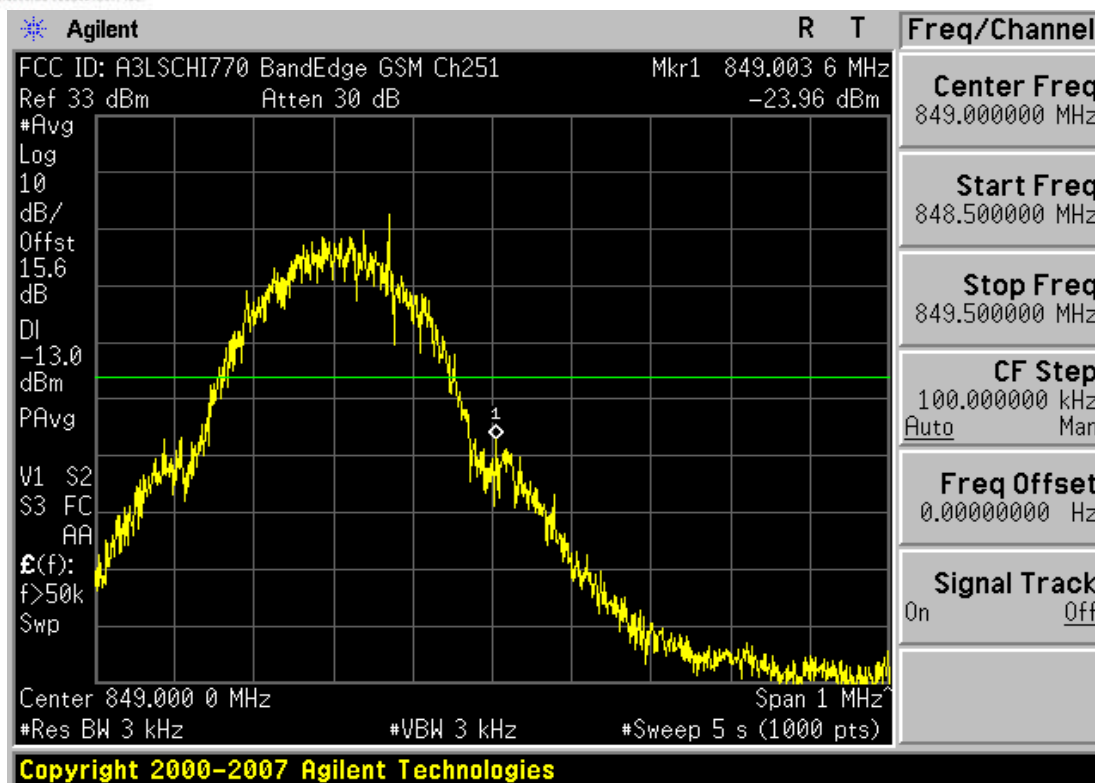


Plot 7-7. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

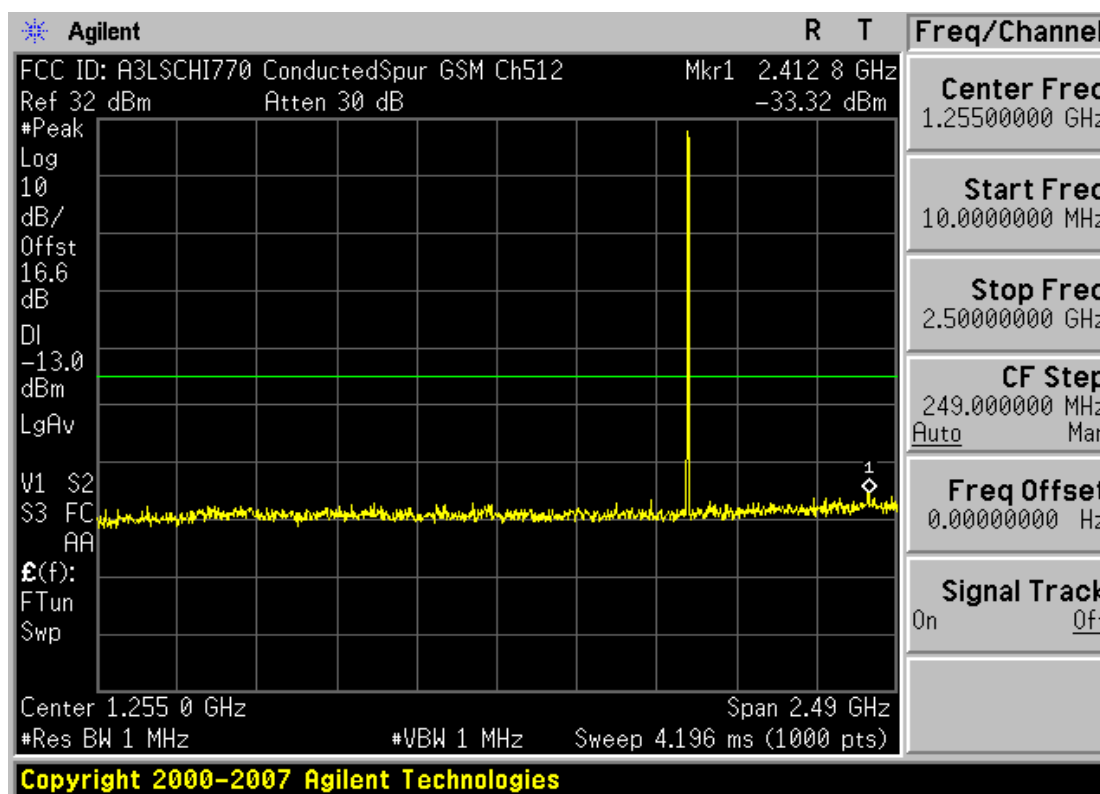


Plot 7-8. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 38 of 55

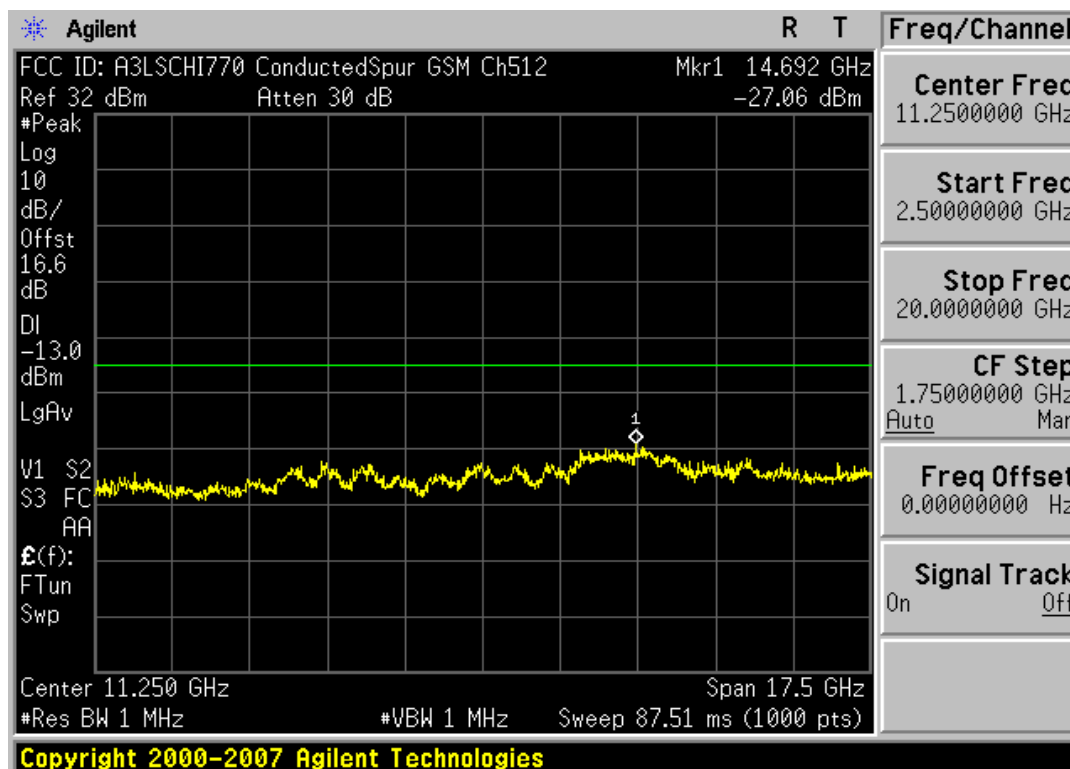


Plot 7-9. Band Edge Plot (Cellular GSM Mode – Ch. 251)

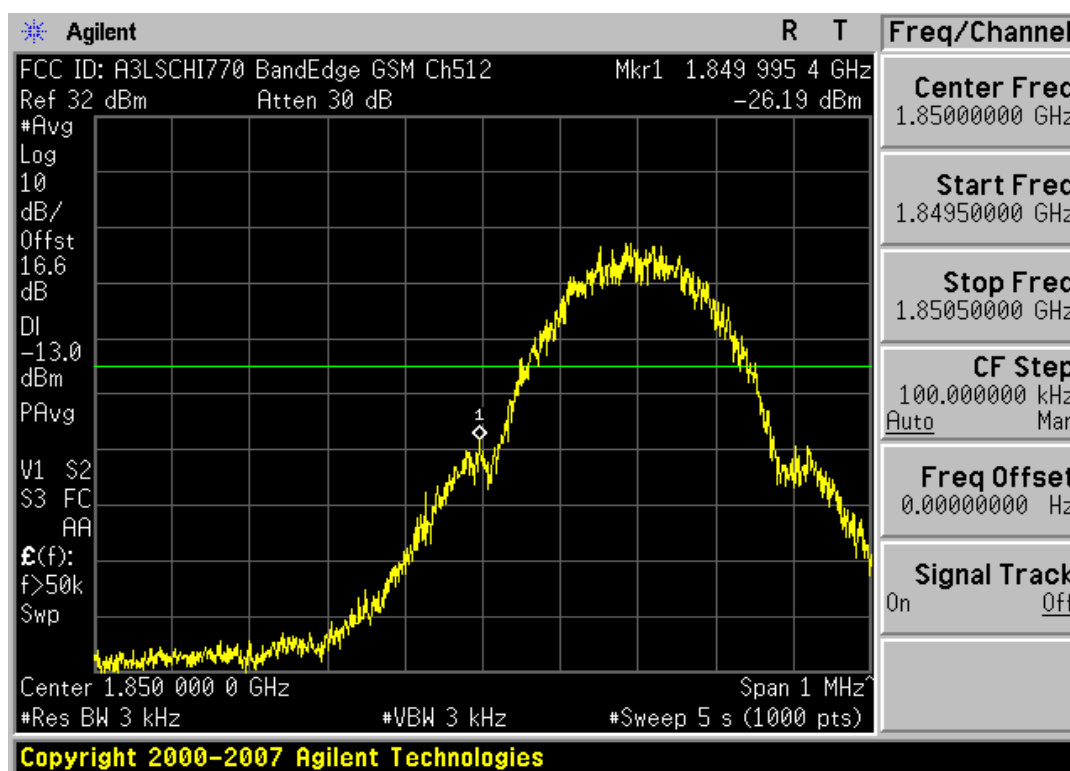


Plot 7-10. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 39 of 55

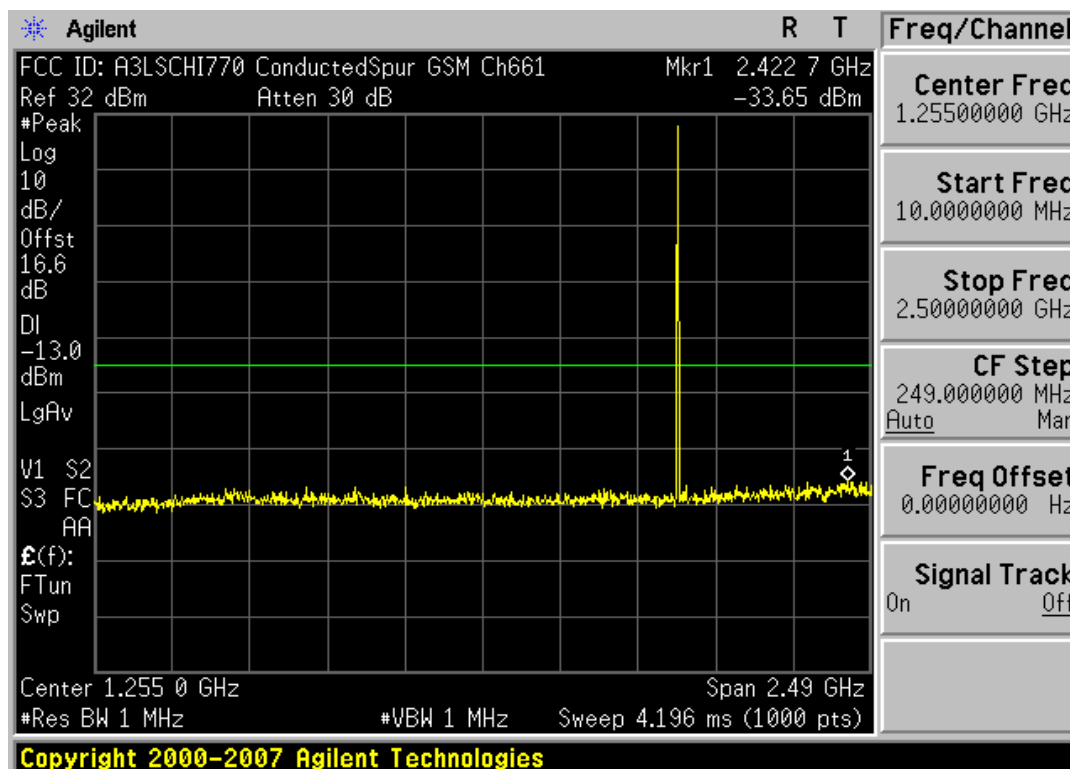


Plot 7-11. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

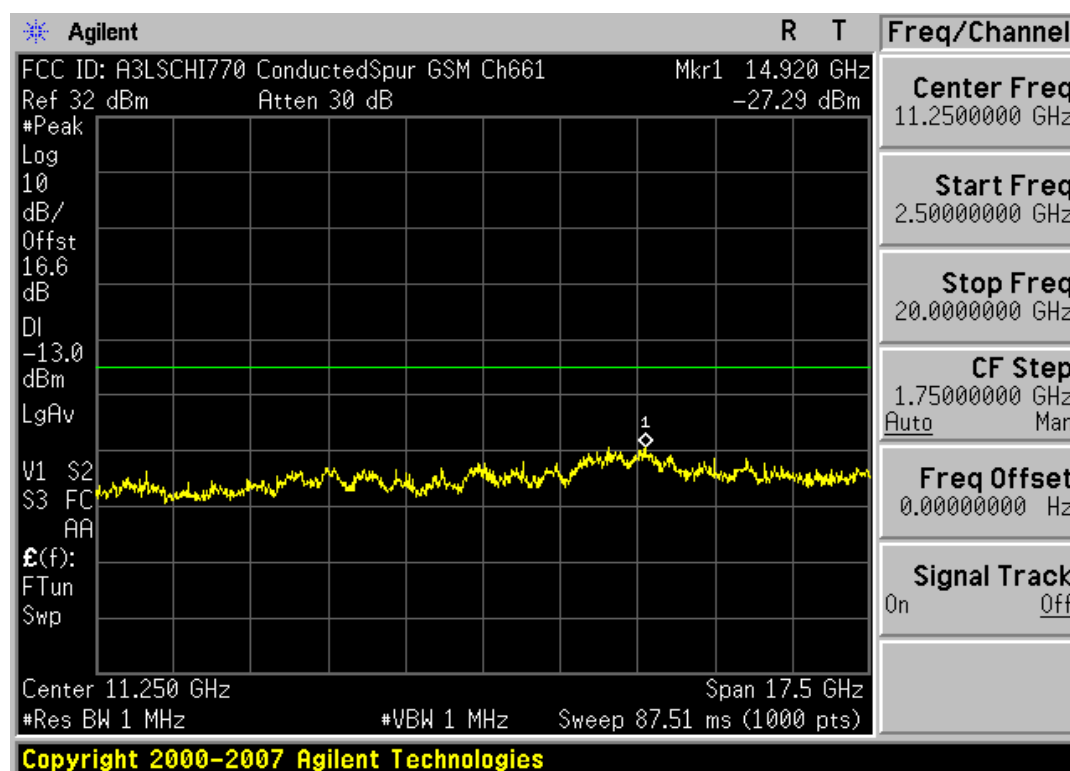


Plot 7-12. Band Edge Plot (PCS GSM Mode – Ch. 512)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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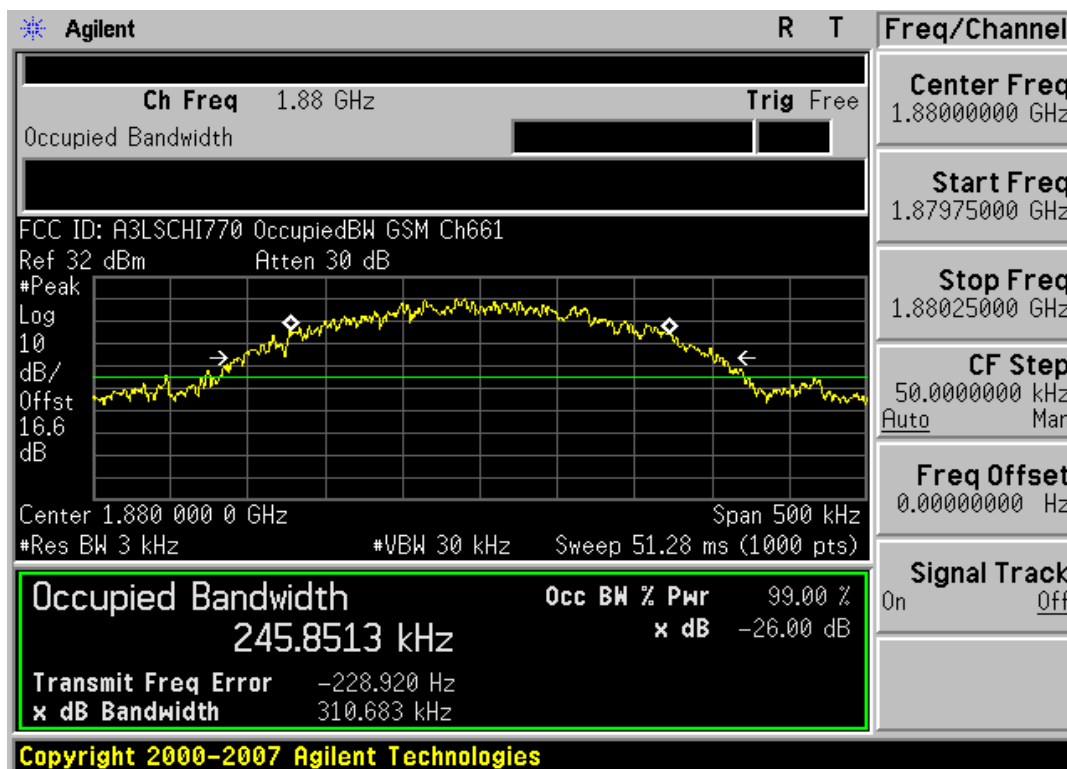


Plot 7-13. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

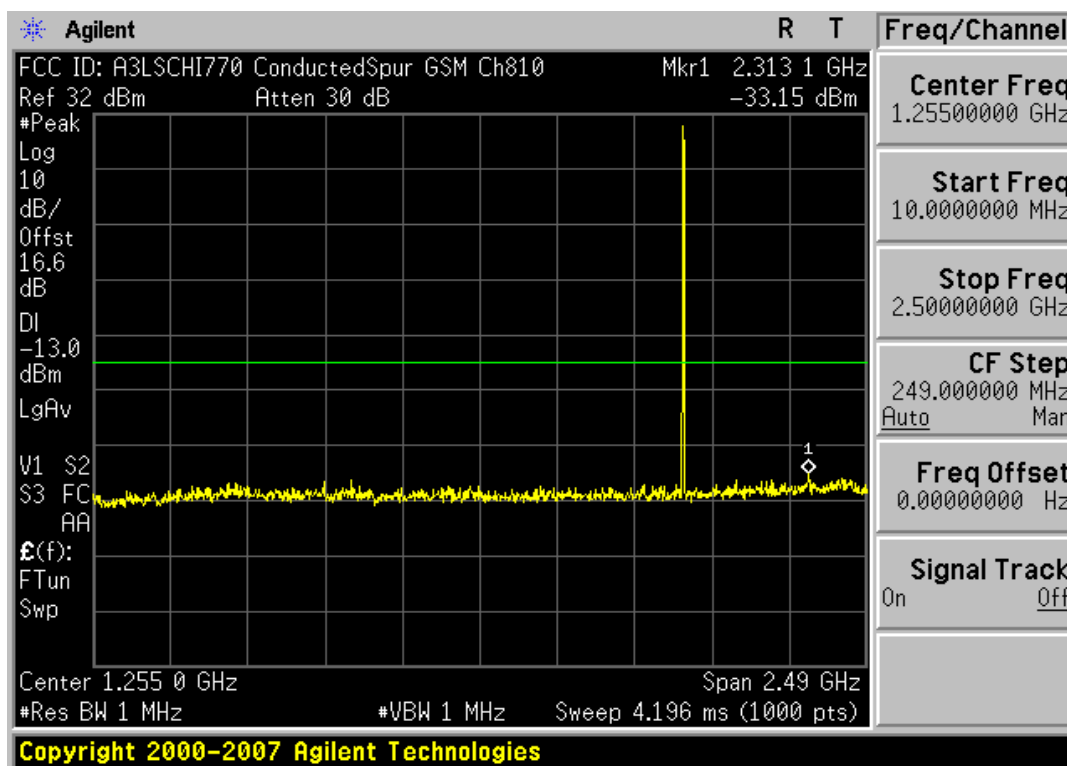


Plot 7-14. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 41 of 55

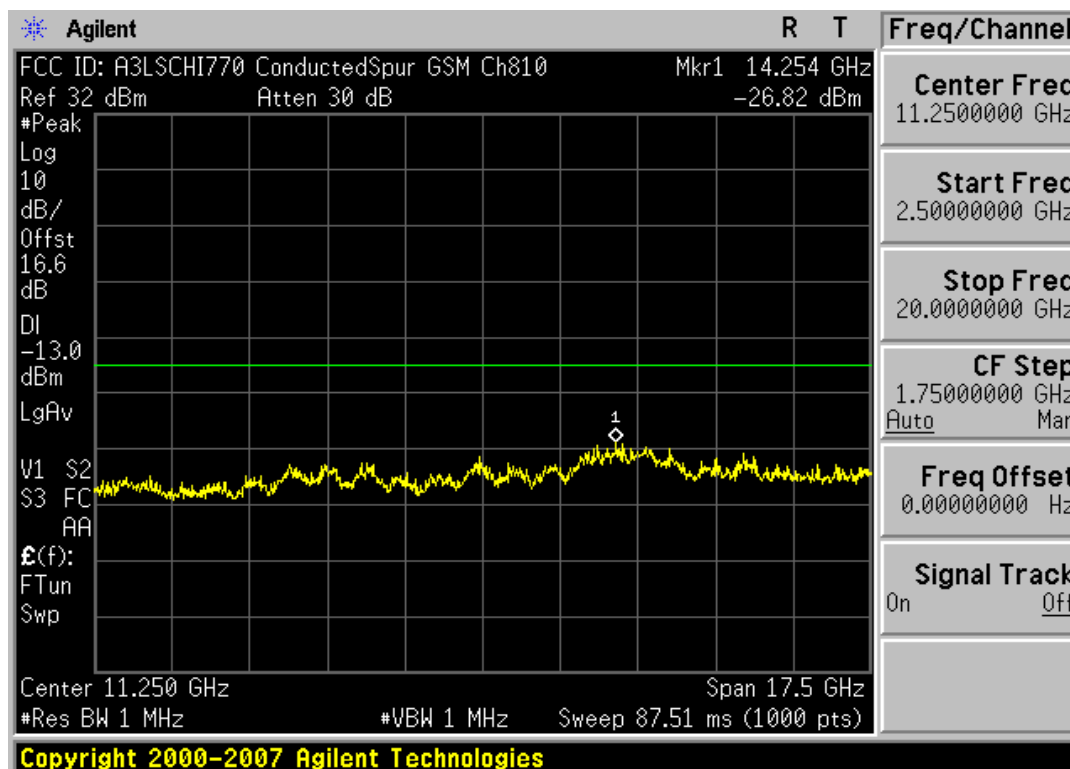


Plot 7-15. Occupied Bandwidth Plot (PCS GSM Mode – Ch. 661)

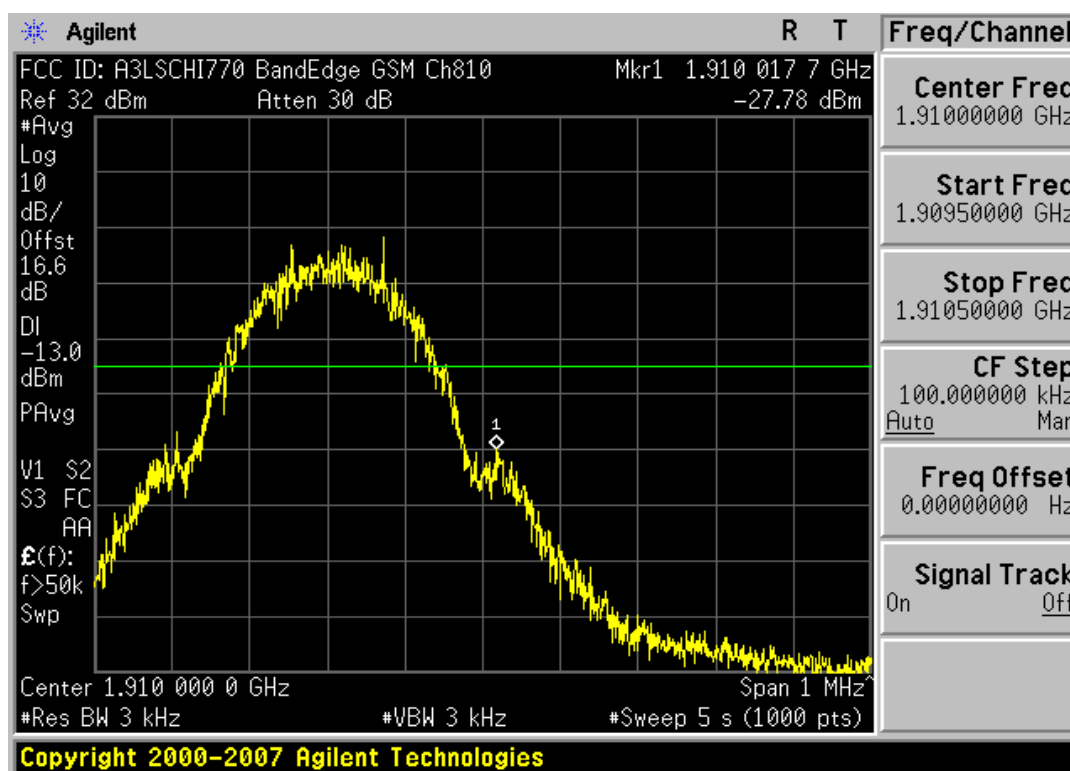


Plot 7-16. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 42 of 55

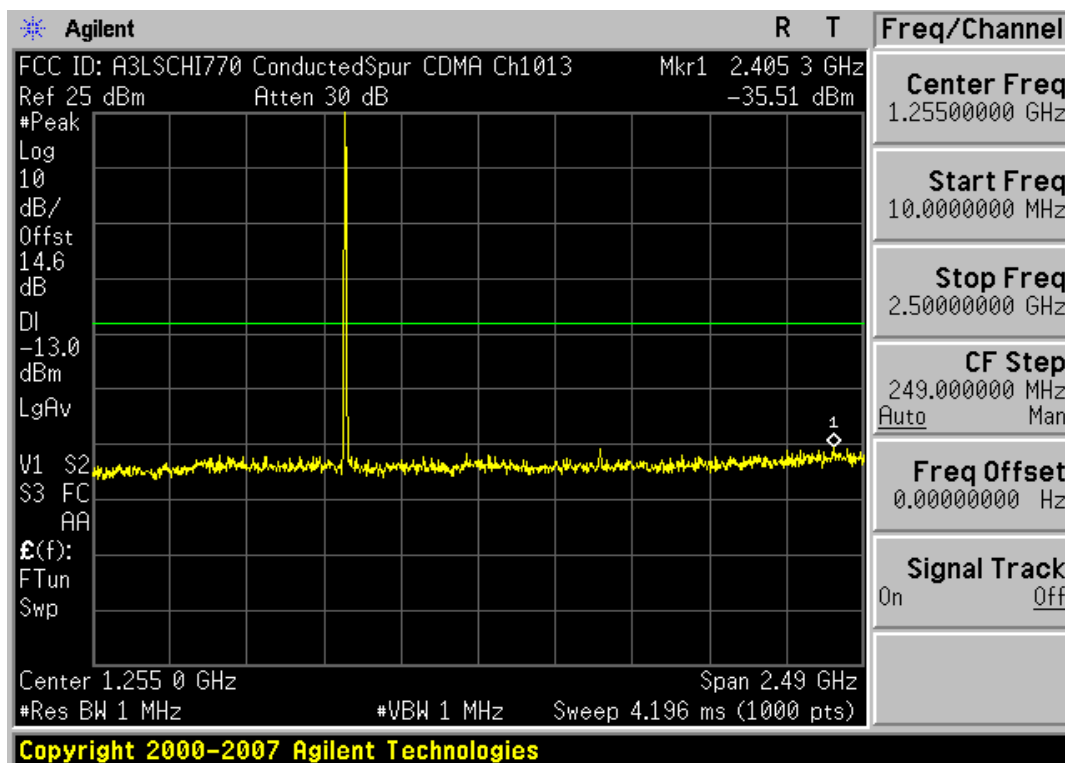


Plot 7-17. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

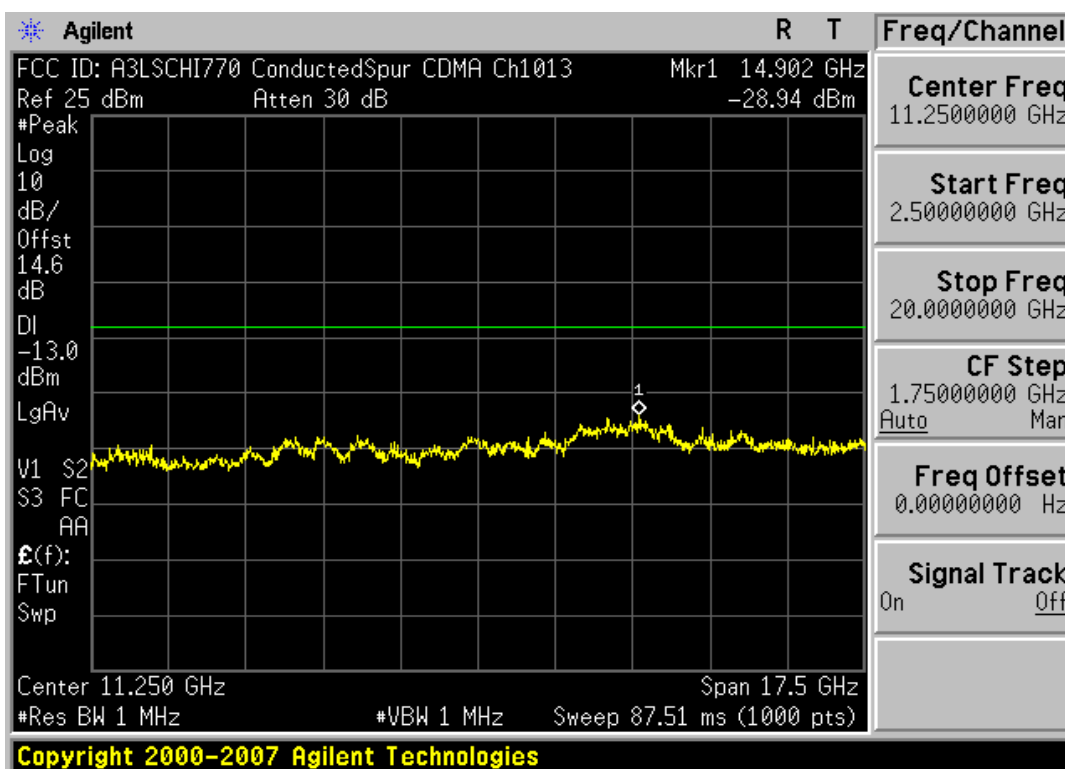


Plot 7-18. Band Edge Plot (PCS GSM Mode – Ch. 810)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 43 of 55

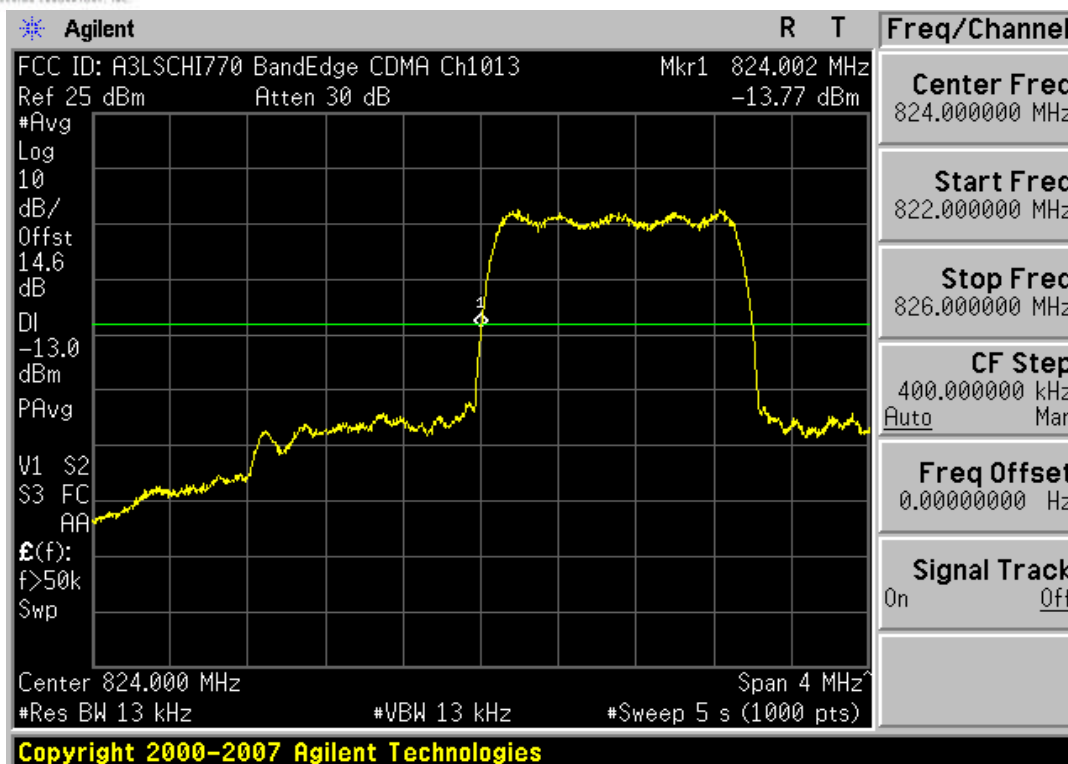


Plot 7-19. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)



Plot 7-20. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)

FCC ID: A3LSCHI770		FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 44 of 55

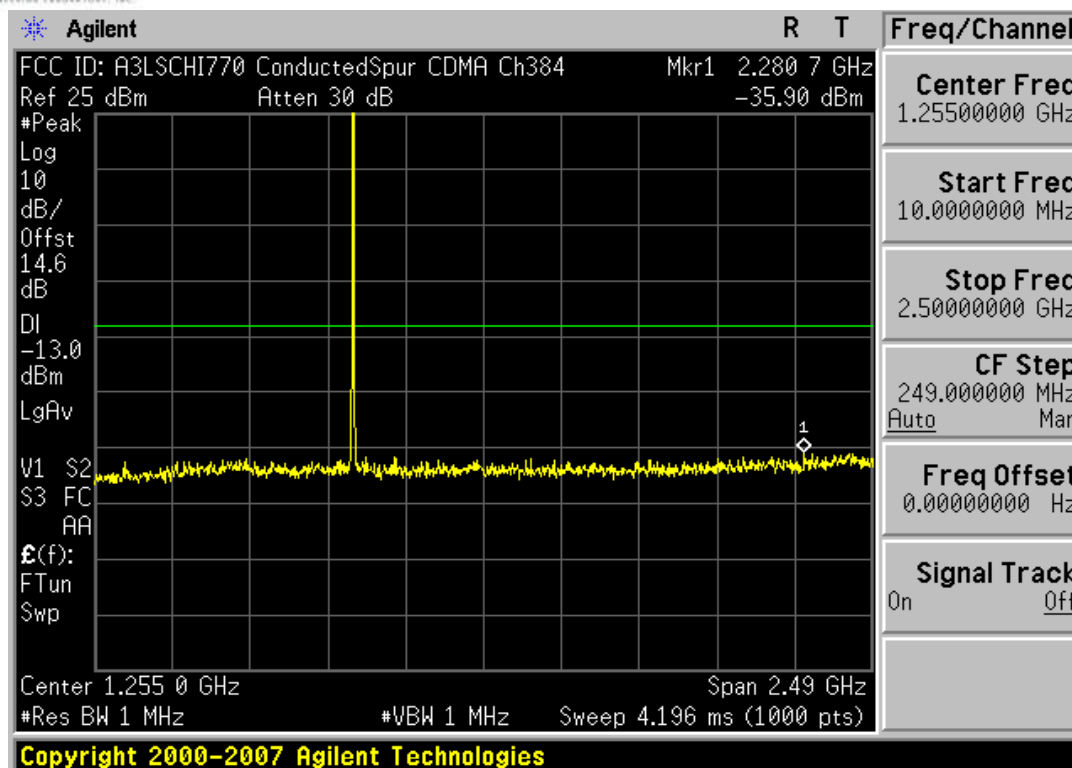


Plot 7-21. Band Edge Plot (Cellular CDMA Mode – Ch. 1013)

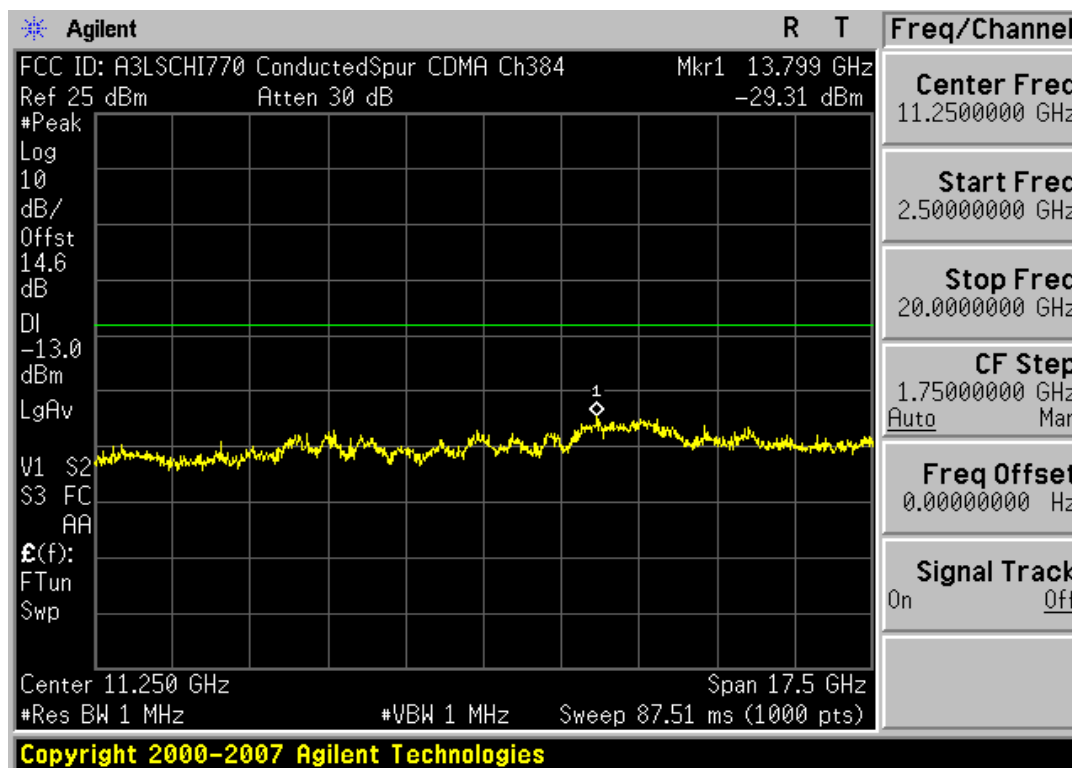


Plot 7-22. 4MHz Span Plot (Cellular CDMA Mode – Ch. 1013)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 45 of 55

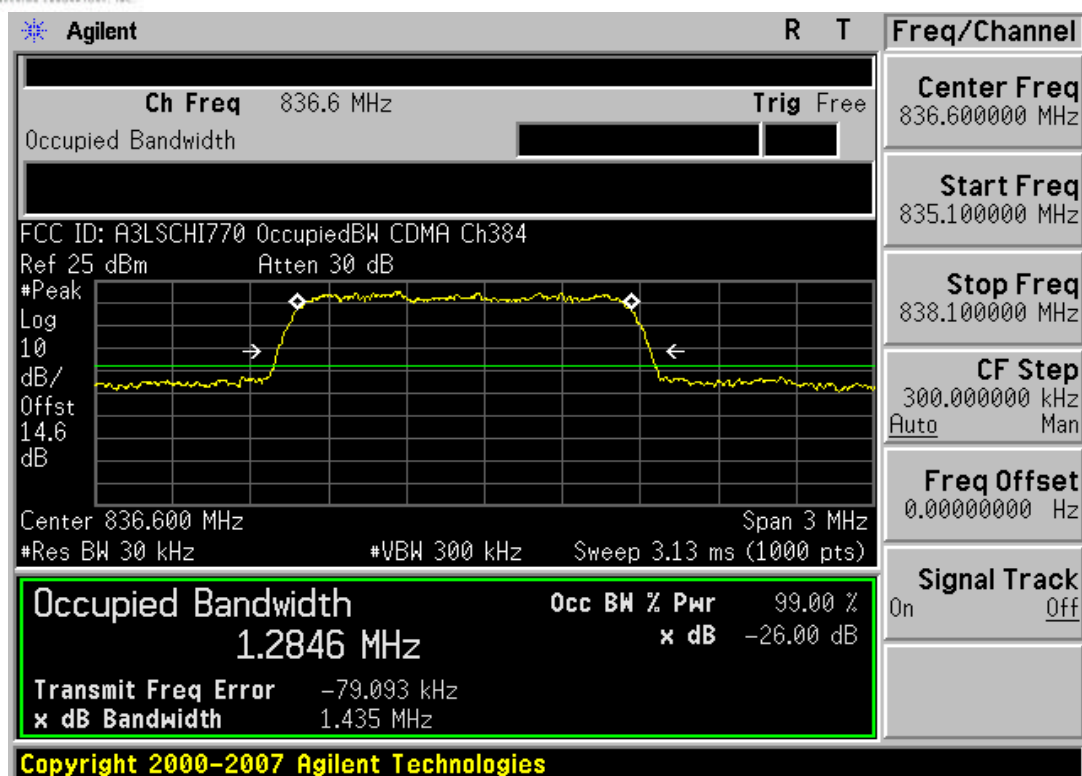


Plot 7-23. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

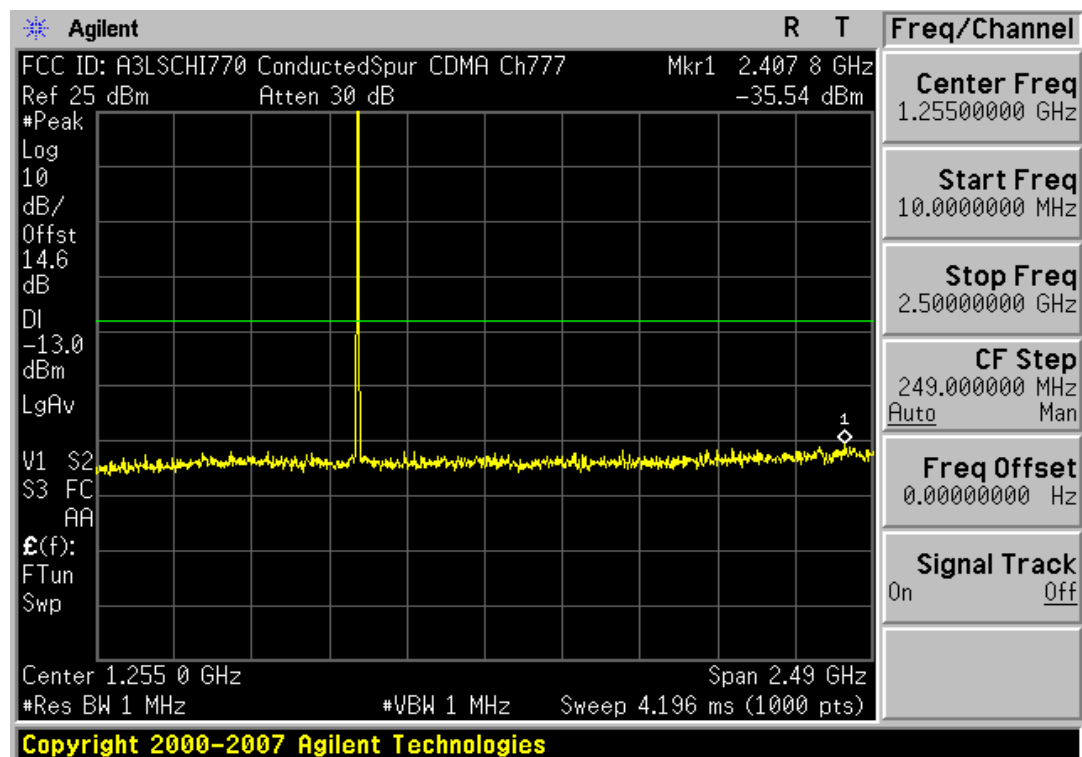


Plot 7-24. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 46 of 55

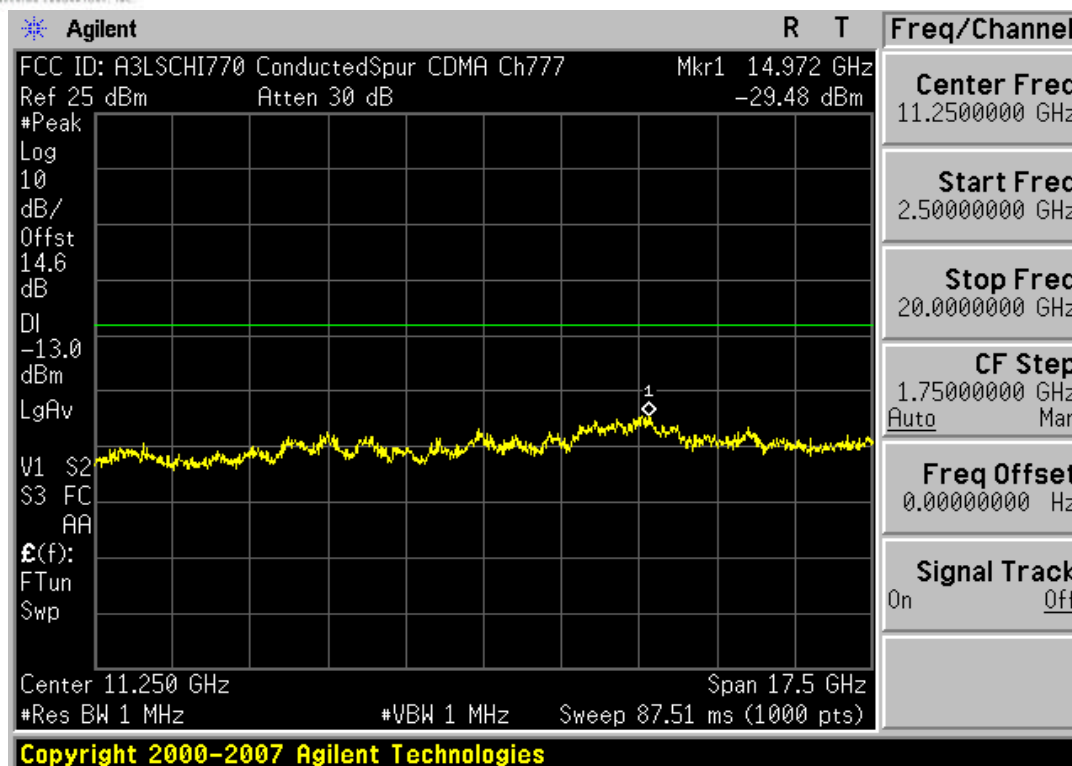


Plot 7-25. Occupied Bandwidth Plot (Cellular CDMA Mode – Ch. 384)

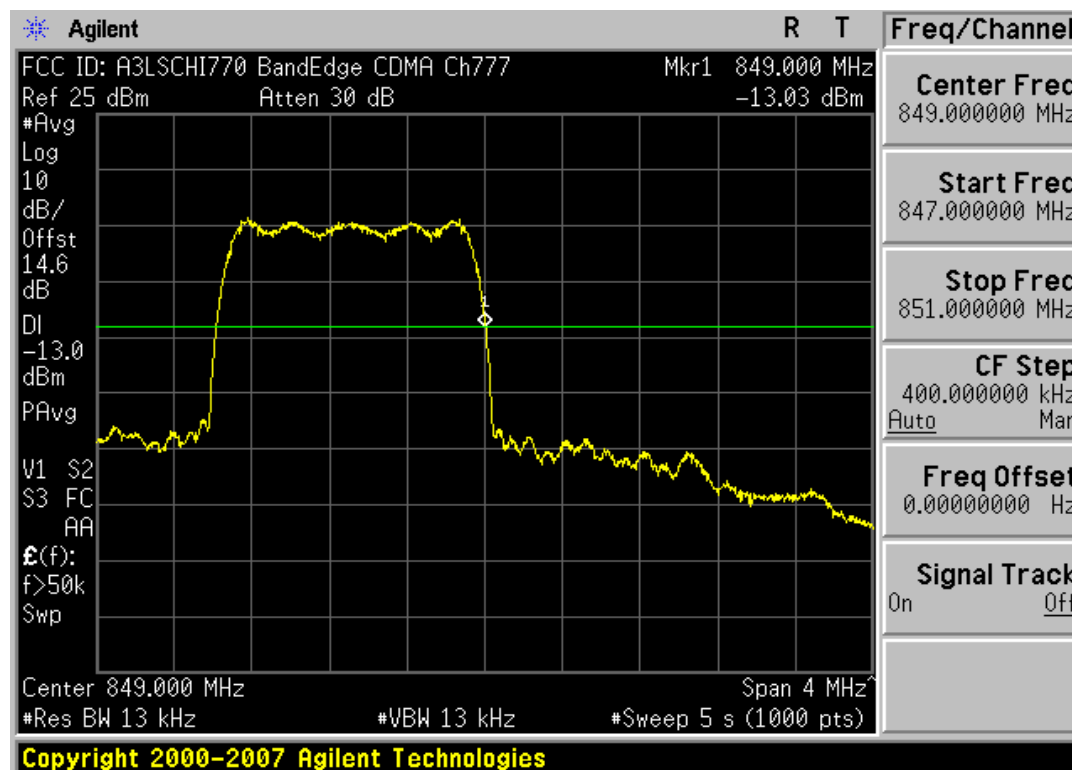


Plot 7-26. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 47 of 55



Plot 7-27. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

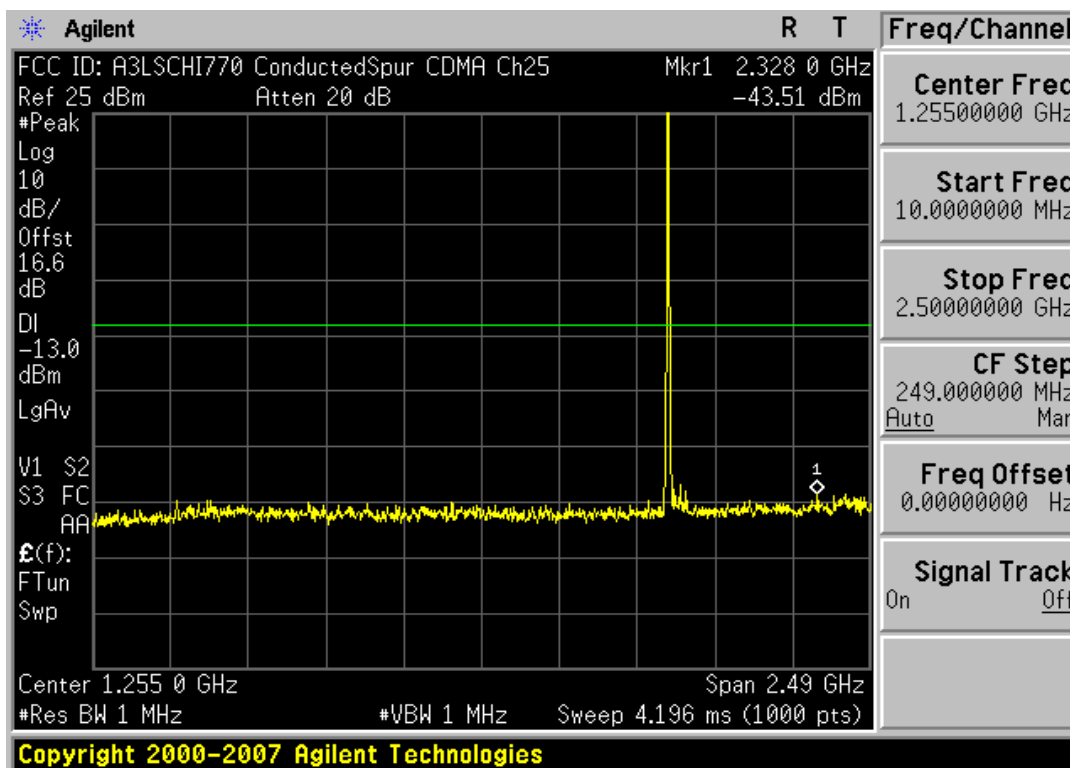


Plot 7-28. Band Edge Plot (Cellular CDMA Mode – Ch. 777)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 48 of 55

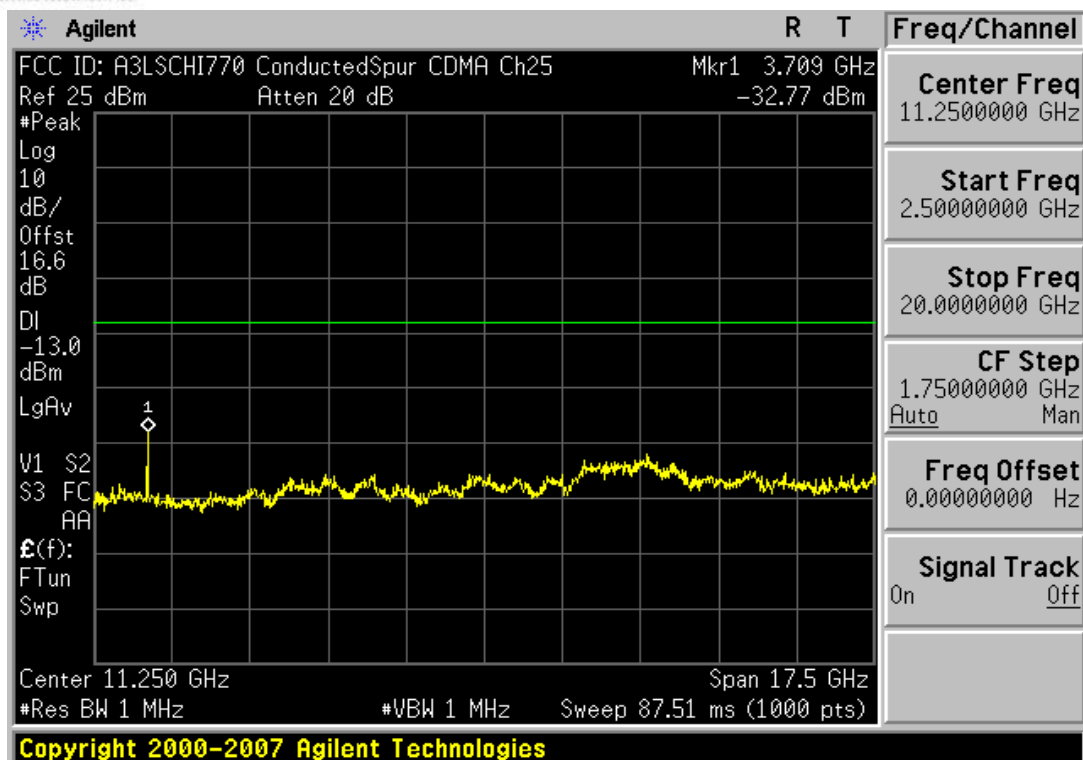


Plot 7-29. 4MHz Span Plot (Cellular CDMA Mode – Ch. 777)

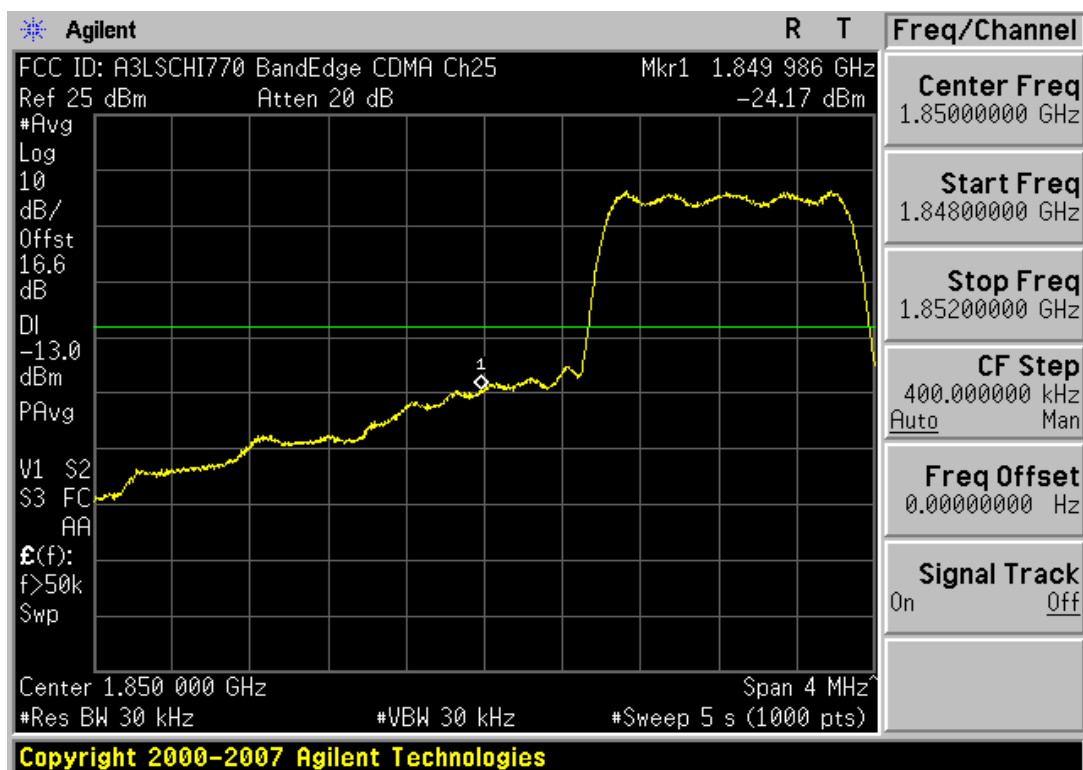


Plot 7-30. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 49 of 55

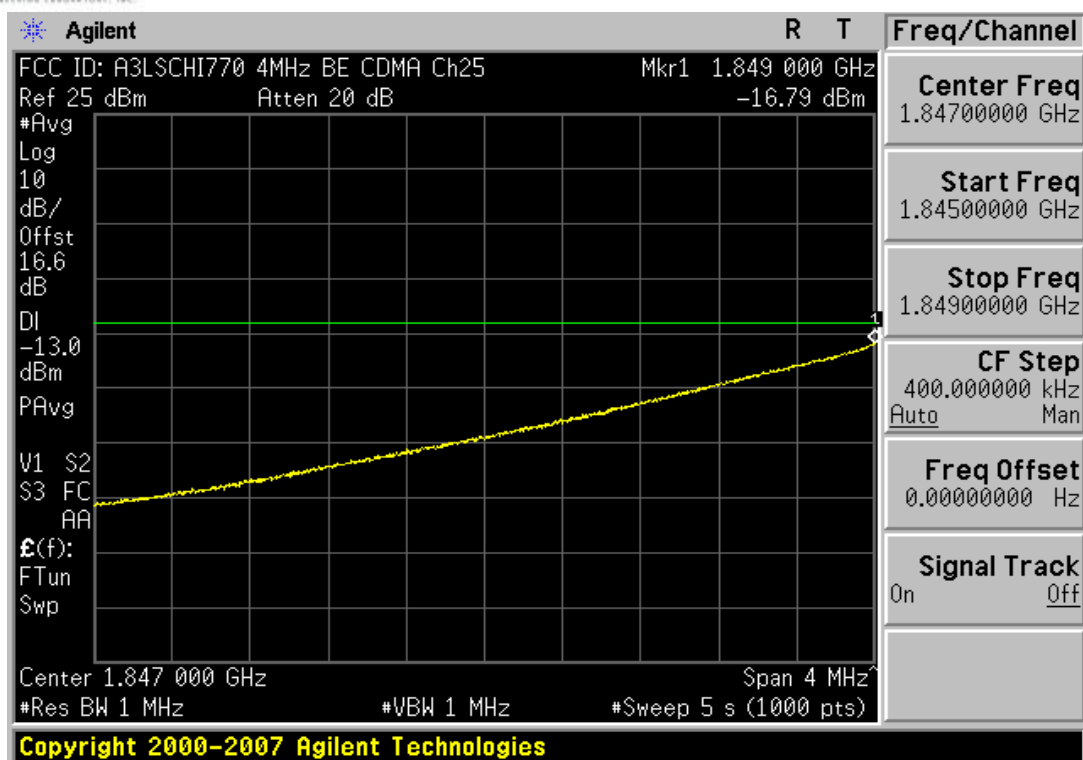


Plot 7-31. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)

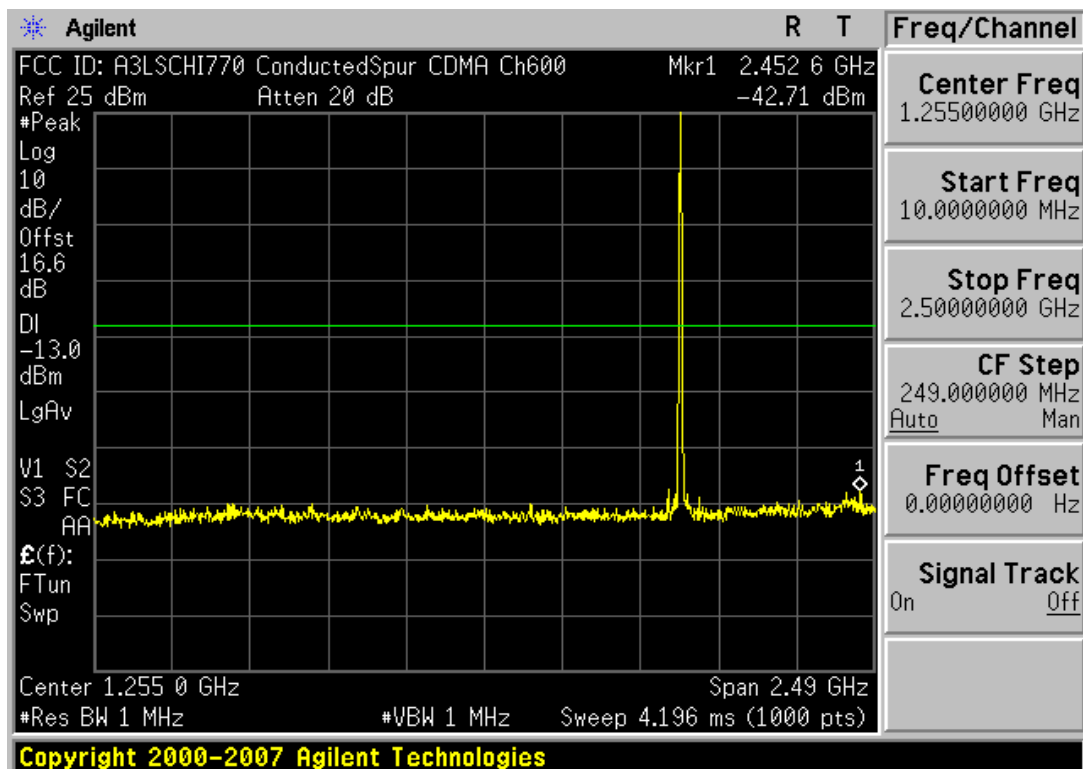


Plot 7-32. Band Edge Plot (PCS CDMA Mode – Ch. 25)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 50 of 55

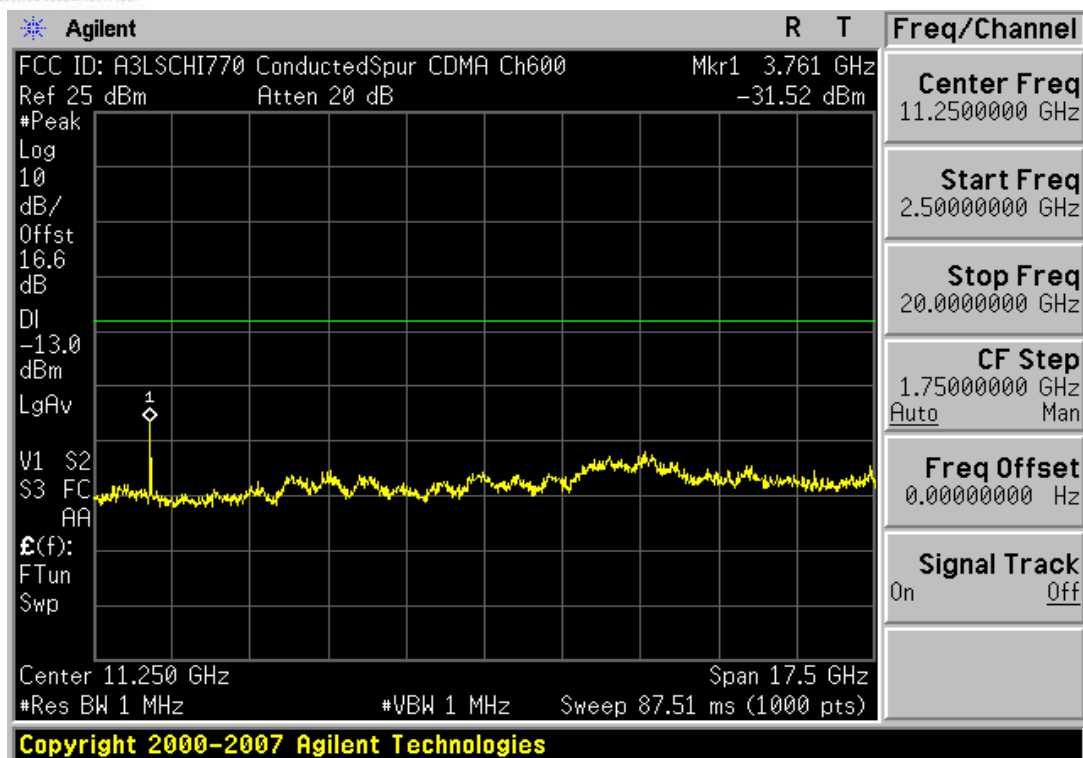


Plot 7-33. 4MHz Span Plot (PCS CDMA Mode – Ch. 25)

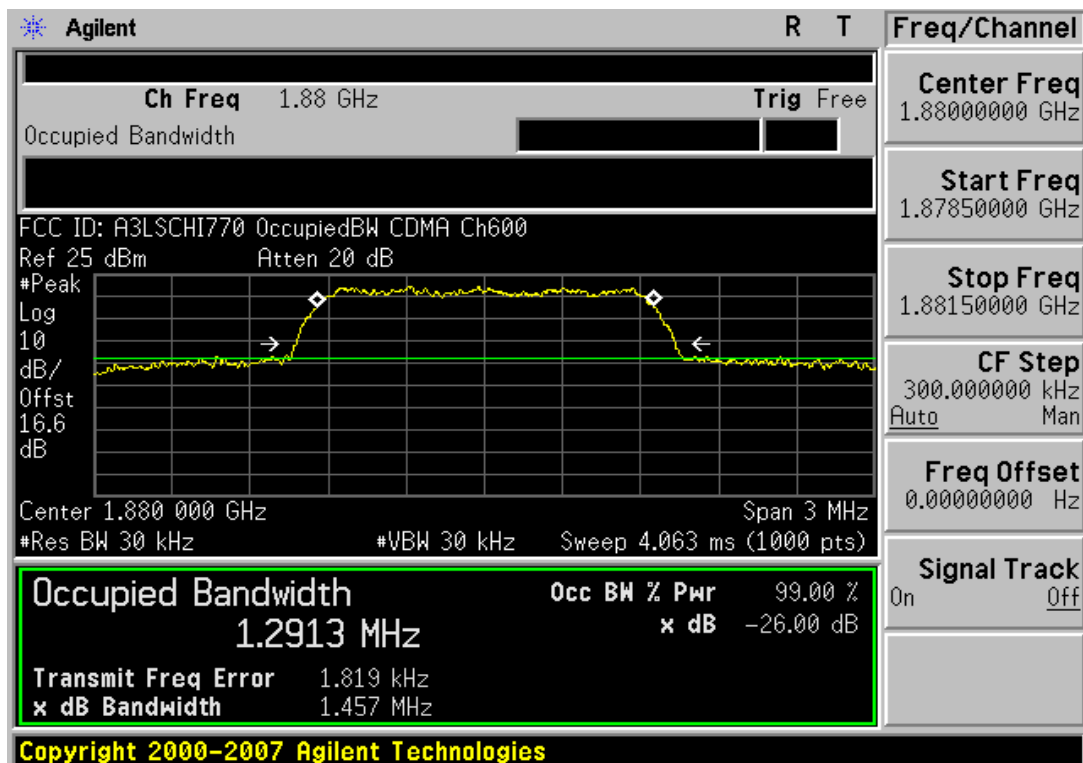


Plot 7-34. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 51 of 55

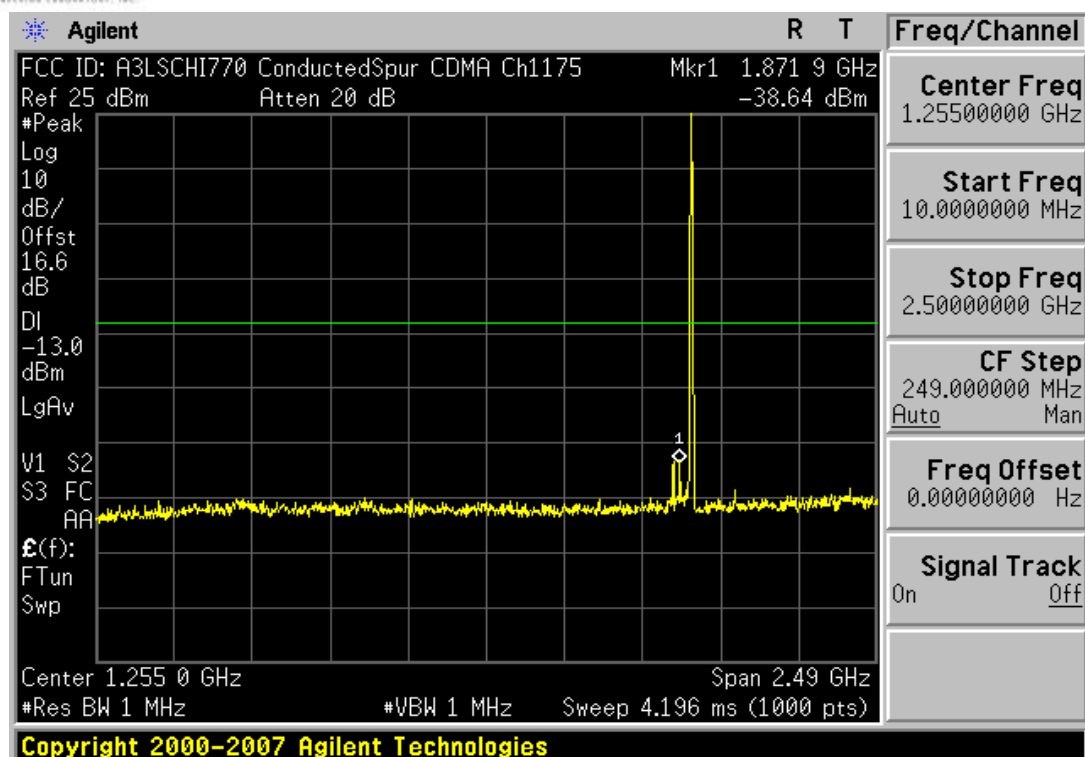


Plot 7-35. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

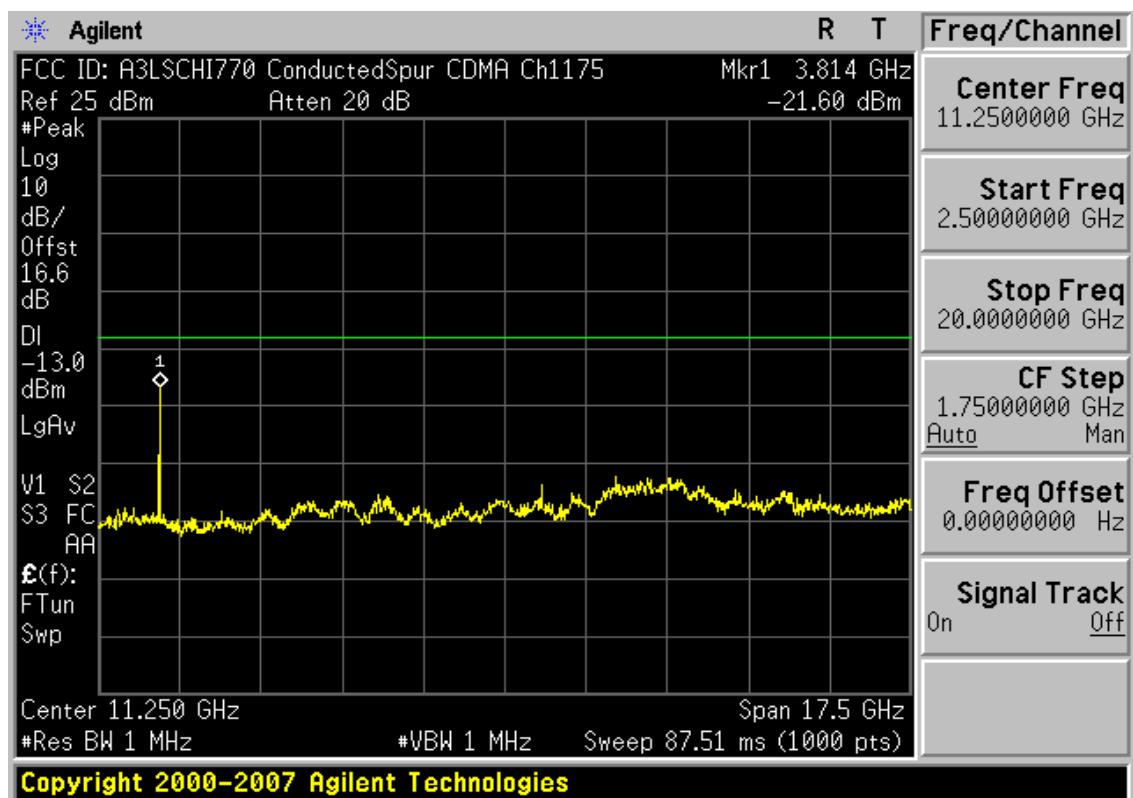


Plot 7-36. Occupied Bandwidth Plot (PCS CDMA Mode – Ch. 600)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 52 of 55

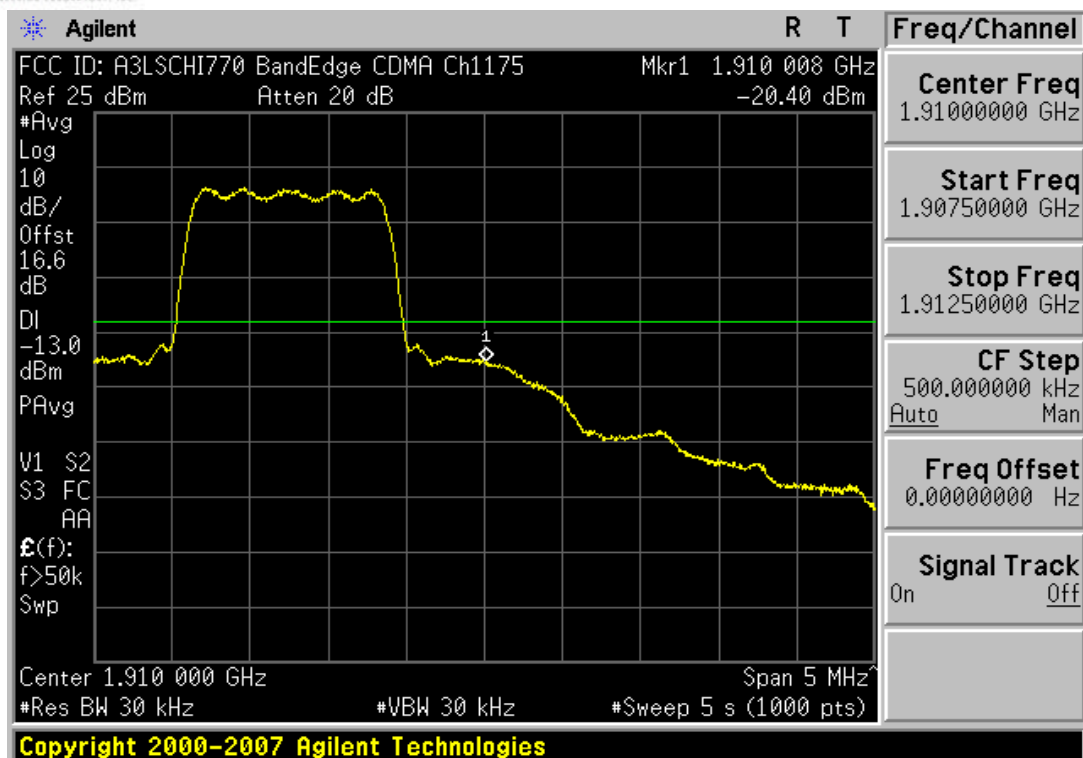


Plot 7-37. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)



Plot 7-38. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 7-39. Band Edge Plot (PCS CDMA Mode – Ch. 1175)



Plot 7-40. 4MHz Span Plot (PCS CDMA Mode – Ch. 1175)

FCC ID: A3LSCHI770	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM/CDMA/EvDO MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0804070421.A3L	Test Dates: April 17, 2008 - April 18, 2008	EUT Type: 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN		Page 54 of 55

8.0 CONCLUSION

The data collected show that the **Samsung 850/1900 GSM and Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN FCC ID: A3LSCHI770** complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

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