



PCTEST ENGINEERING LABORATORY, INC.

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CERTIFICATE OF COMPLIANCE FCC Part 22 & 24 Certification

Applicant Name:

NEC Corporation of America
Radio Communications Systems Division
6535 N. State Highway 161
Irving, TX 75039-2402
United States

Date of Testing:

July 31- August 11, 2008

Test Site/Location:

PCTEST Lab., Columbia, MD, USA

Test Report Serial No.:

0807301051.A98

FCC ID:

A98-7N2R11A

APPLICANT:

NEC CORPORATION OF AMERICA

Application Type:

Certification

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part(s):

§2; §22(H), §24(E)

EUT Type:

850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID

Model(s):

KMP7N2R1-1A

Tx Frequency Range:

826.40 - 846.60MHz (Cell. WCDMA) / 1850.20 - 1909.80MHz (PCS GSM)

Max. RF Output Power:

0.137 W ERP Cell. WCDMA (21.38 dBm) / 0.893 W EIRP PCS GSM (29.51 dBm)

Emission Designator(s):

4M28F9W (Cellular WCDMA), 242KGXW (PCS GSM)

Test Device Serial No.:


identical prototype [S/N: 004401200275374]

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







FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 1 of 36

TABLE OF CONTENTS

FCC PART 22 & 24 MEASUREMENT REPORT	3
1.0 INTRODUCTION	4
1.1 SCOPE	4
1.2 TESTING FACILITY	4
2.0 PRODUCT INFORMATION	5
2.1 EQUIPMENT DESCRIPTION	5
2.2 EMI SUPPRESSION DEVICE(S)/MODIFICATIONS	5
2.3 LABELING REQUIREMENTS	5
3.0 DESCRIPTION OF TESTS	6
3.1 MEASUREMENT PROCEDURE	6
3.2 OCCUPIED BANDWIDTH EMISSION LIMITS	6
3.3 CELLULAR - BASE FREQUENCY BLOCKS	6
3.4 CELLULAR - MOBILE FREQUENCY BLOCKS	7
3.5 PCS - BASE FREQUENCY BLOCKS	7
3.6 PCS - MOBILE FREQUENCY BLOCKS	7
3.7 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	7
3.8 RADIATED SPURIOUS AND HARMONIC EMISSIONS	8
3.9 PEAK-AVERAGE RATIO	8
3.10 FREQUENCY STABILITY / TEMPERATURE VARIATION	8
4.0 TEST EQUIPMENT CALIBRATION DATA	9
5.0 SAMPLE CALCULATIONS	10
6.0 TEST RESULTS	11
6.1 SUMMARY	11
6.2 CONDUCTED OUTPUT POWER	12
6.3 EFFECTIVE RADIATED POWER OUTPUT DATA	13
6.4 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT DATA	14
6.5 CELLULAR WCDMA RADIATED MEASUREMENTS	15
6.6 PCS GSM RADIATED MEASUREMENTS	18
6.7 CELLULAR WCDMA FREQUENCY STABILITY MEASUREMENTS	21
6.8 PCS GSM FREQUENCY STABILITY MEASUREMENTS	23
7.0 PLOTS OF EMISSIONS	25
8.0 CONCLUSION	36

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 2 of 36



MEASUREMENT REPORT

FCC Part 22 & 24



§2.1033 General Information



APPLICANT: NEC Corporation of America
APPLICANT ADDRESS: Radio Communications Systems Division
 6535 N. State Highway 161, Irving, TX 75039-2402, United States
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: KMP7N2R1-1A
FCC ID: A98-7N2R11A
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
EMISSION DESIGNATOR(S): 4M28F9W (Cellular WCDMA), 242KGXW (PCS GSM)
MODE: GSM/GPRS/WCDMA
FREQUENCY TOLERANCE: $\pm 0.00025\%$ (2.5 ppm)
Test Device Serial No.: 004401200275374 ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: July 31- August 11, 2008
TEST REPORT S/N: 0807301051.A98

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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 3 of 36

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.

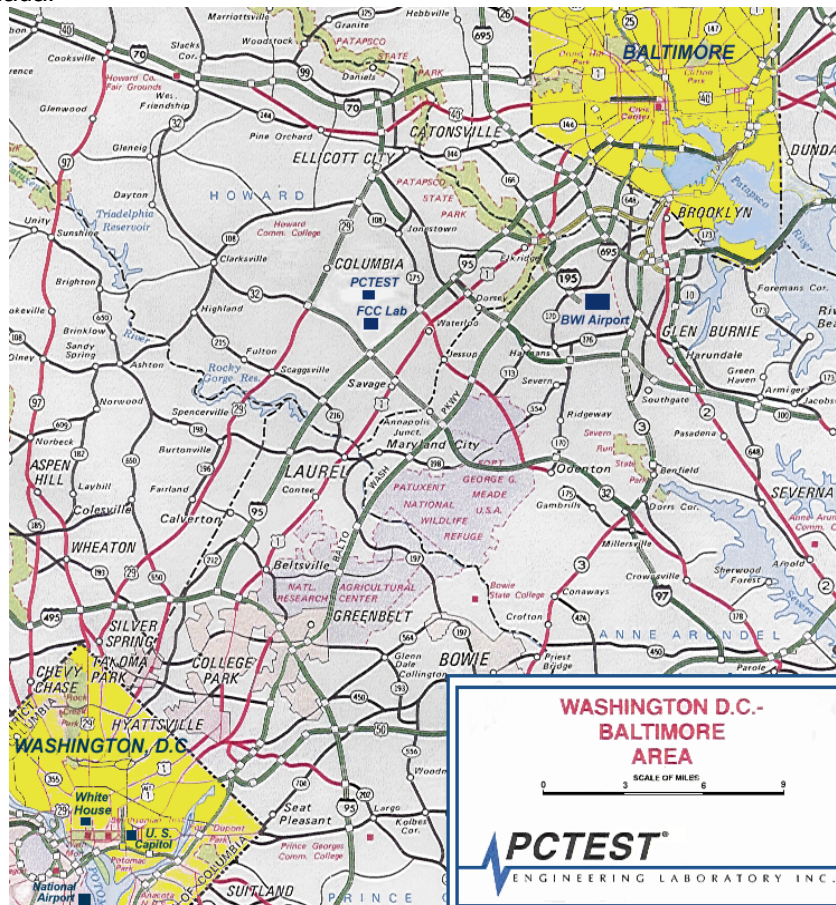


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 4 of 36

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **NEC 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID FCC ID: A98-7N2R11A**. The EUT consisted of the following component(s):

Trade Name / Base Model	FCC ID	Description
NEC / Model: KMP7N2R1-1A	A98-7N2R11A	850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID

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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 5 of 36

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.

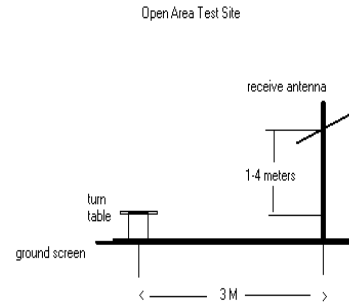


Figure 3-1. Diagram of 3-meter outdoor test range

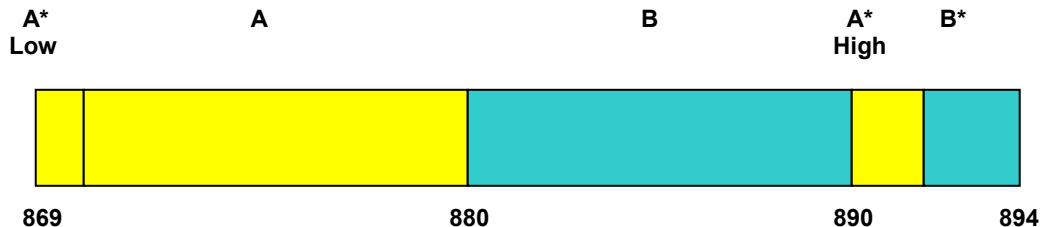
Deviation from Measurement Procedure.....None

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)

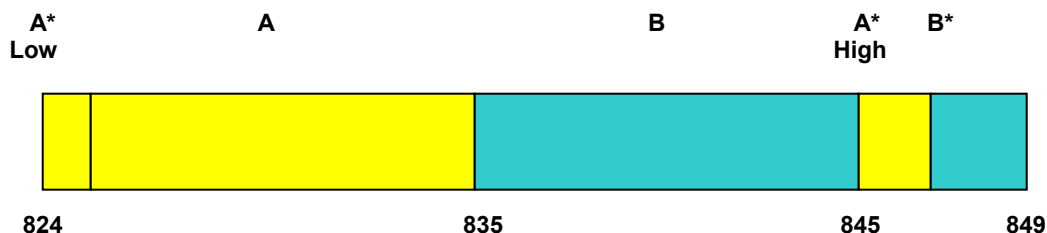
BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 2: 880 – 890 MHz (B)

BLOCK 4: 891.5 – 894 MHz (B*)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 6 of 36

3.4 Cellular - Mobile Frequency Blocks



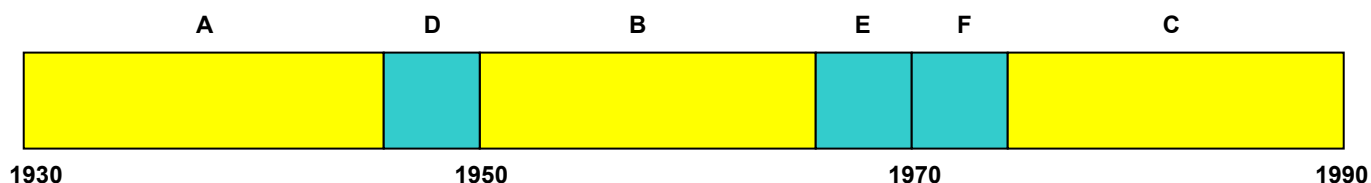
BLOCK 1: 824 – 835 MHz (A* Low + A)

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)

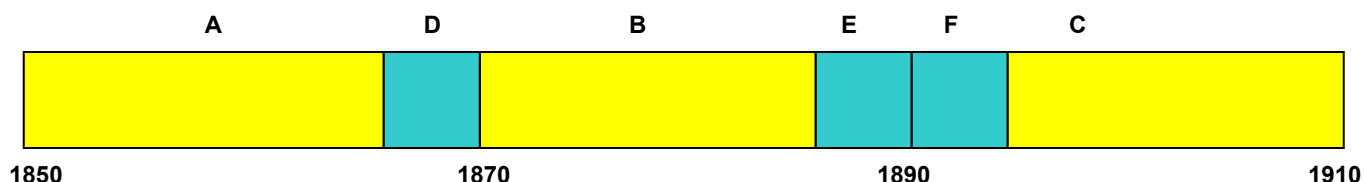
BLOCK 2: 1945 – 1950 MHz (D)

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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 7 of 36

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 3-meter 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 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.

3.9 Peak-Average Ratio

§24.232(d)

A peak to average ratio measurement is performed at the conducted port of the EUT. An average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth.

3.10 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 $\pm 0.00025\%$ (± 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.



FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 8 of 36

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	Serial No.
-	263-10dB	(DC-18GHz) 10 dB Attenuator	N/A		N/A	N/A
-	No.165	(30MHz - 1000MHz) RG58 Coax Cable	N/A		N/A	N/A
-	No.166	(1000-26500MHz) Microwave RF Cable	N/A		N/A	N/A
-	No.167	(100kHz - 100MHz) RG58 Coax Cable	N/A		N/A	N/A
Agilent	11713A	Attenuation/Switch Driver	12/13/07	Annual	12/13/08	3439A02645
Agilent	8449B	(1-26.5GHz) Pre-Amplifier	12/13/07	Annual	12/12/08	3008A00985
Agilent	8495A	(0-70dB) DC-4GHz Attenuator	N/A		N/A	N/A
Agilent	85650A	Quasi-Peak Adapter	03/13/08	Annual	03/13/09	2043A00301
Agilent	8566B	(100Hz-22GHz) Spectrum Analyzer	12/13/07	Annual	12/13/08	3638A08713
Agilent	8566B	Opt. 462 Impulse Bandwidth	12/13/07	Annual	12/12/08	3701A22204
Agilent	8591A	(9kHz-1.8GHz) Spectrum Analyzer	09/18/07	Annual	09/18/08	3144A02458
Agilent	8648D	(9kHz-4GHz) Signal Generator	10/11/07	Biennial	10/10/09	3613A00315
Agilent	E4407B	ESA Spectrum Analyzer	03/13/08	Annual	03/13/09	US39210313
Agilent	E4448A	(3Hz-50GHz) Spectrum Analyzer	01/24/08	Annual	01/24/09	US42510244
Agilent	E5515C	Wireless Communications Test Set	06/08/07	Biennial	06/08/09	GB46110872
Agilent	E5515C	Wireless Communications Test Set	06/08/07	Biennial	06/08/09	GB46310798
Agilent	E5515C	Wireless Communications Test Set	08/31/07	Biennial	08/31/09	GB41450275
Agilent	E6651A	Mobile WiMAX Tester	08/23/07	Biennial	08/22/09	MY47310109
Agilent	E8257D	(250kHz-20GHz) Signal Generator	03/08/07	Biennial	03/08/09	MY45470194
Compliance Design	Roberts	Dipole Set	11/09/07	Biennial	11/08/09	146
Compliance Design	Roberts	Dipole Set	11/09/07	Biennial	11/08/09	147
Emco	3115	Horn Antenna (1-18GHz)	9/24/07	Biennial	9/23/09	9704-5182
Emco	3115	Horn Antenna (1-18GHz)	10/4/07	Biennial	10/3/09	9205-3874
Emco	3116	Horn Antenna (18 - 40GHz)	8/25/05	Triennial	8/24/08	9203-2178
Emco	3121C-DB4	Dipole Antenna	1/23/07	Biennial	1/22/09	00023951
Espec	ESX-2CA	Environmental Chamber	3/12/08	Annual	3/12/09	017620
K & L	11SH10	Band Pass Filter	N/A	Annual	N/A	1300/4000
K & L	11SH10	Band Pass Filter	N/A	Annual	N/A	
MiniCircuits	VHF-1300+	High Pass Filter	N/A		N/A	30716
MiniCircuits	VHF-3100+	High Pass Filter	N/A		N/A	30721
Pasternack	PE2208-6	Bidirectional Coupler	N/A		N/A	
Rohde & Schwarz	CMU200	Base Station Simulator	5/29/08	Annual	5/29/09	836371/0079
Rohde & Schwarz	CMU200	Base Station Simulator	9/7/07	Annual	9/6/08	833855/0010
Rohde & Schwarz	CMU200	Base Station Simulator	12/6/07	Annual	12/5/08	107826
Rohde & Schwarz	CMU200	Base Station Simulator	7/23/08	Annual	7/23/09	109892
Rohde & Schwarz	NRVD	Dual Channel Power Meter	12/12/06	Biennial	12/11/08	101695
Rohde & Schwarz	NRVS	Single Channel Power Meter	7/3/07	Biennial	7/2/09	835360/0079
Rohde & Schwarz	NRV-Z32	Peak Power Sensor (100uW-2W)	12/21/06	Biennial	12/20/08	100155
Rohde & Schwarz	NRV-Z33	Peak Power Sensor (1mW-20W)	11/28/06	Biennial	11/27/08	100004
Rohde & Schwarz	NRV-Z53	Power Sensor	7/3/07	Biennial	7/2/09	846076/0007
Schwarzbeck	UHA9105	Dipole Antenna (400 - 1GHz) Rx	6/19/07	Biennial	6/18/09	9105-2404
Schwarzbeck	UHA9105	Dipole Antenna (400 - 1GHz) Tx	6/19/07	Biennial	6/18/09	9105-2403
Solar Electronics	8012-50-R-24-BNC	LISN	11/8/07	Biennial	11/8/09	0310233
Sunol	DRH-118	Horn Antenna (1 - 18GHz)	5/9/07	Biennial	5/8/09	A050307

Table 4-1. Test Equipment

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 9 of 36

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)

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 10 of 36


6.0 TEST RESULTS

6.1 Summary

Company Name: NEC Corporation of America
 FCC ID: A98-7N2R11A
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): GSM/GPRS/WCDMA

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	$< 43 + \log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions		PASS	Section 7.0
24.232(d)	Peak-Average Ratio	$< 13 \text{ dB}$		PASS	Section 7.0
2.1046	GSM/WCDMA Conducted Output Power	N/A		PASS	Section 6.2
22.913(a)(2)	Effective Radiated Power	$< 7 \text{ Watts max. ERP}$ ($< 6.3 \text{ Watts max. ERP (IC)}$)	RADIATED	PASS	Section 6.3
24.232(c)	Equivalent Isotropic Radiated Power	$< 2 \text{ Watts max. EIRP}$		PASS	Section 6.4
2.1053, 22.917(a), 24.238(a)	Undesirable Emissions	$< 43 + \log_{10}(P[\text{Watts}])$ for all out-of-band emissions		PASS	Sections 6.5, 6.6
2.1055, 22.355, 24.235	Frequency Stability	$< 2.5 \text{ ppm}$	CONDUCTED	PASS	Sections 6.7, 6.8
RECEIVER MODE (RX) / DIGITAL EMISSIONS					
15.107	AC Conducted Emissions 150kHz – 30MHz	$< \text{FCC 15.107 limits}$	LINE CONDUCTED	PASS	Pt. 15B Test Report
15.109	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	$< \text{FCC 15.109 limits}$	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: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID	Page 11 of 36	

6.2 Conducted Output Power

§2.1046

A base station simulator (Rhode and Schwartz Model: CMU200) was used to establish communication with the **NEC 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID FCC ID: A98-7N2R11A**. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested under all configurations and the highest power is reported 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. The GSM and WCDMA conducted powers are reported below, respectively.

Band	Channel	GSM		GPRS	
		Power Control Level	Conducted Power	Uplink / Downlink Slots Used	Conducted Power
			[dBm]		[dBm]
PCS	512	0	30.40	1/1	29.80
	661	0	30.60	1/1	30.30
	810	0	29.20	1/1	30.20

Table 6-2. GSM Conducted Output Powers

Band	Channel	HSDPA Inactive	
		12.2 kbps RMC	12.2 kbps AMR
		[dBm]	[dBm]
Cellular	4132	22.98	23.24
	4183	22.78	22.89
	4233	23.00	23.14

Table 6-3. WCDMA Conducted Output Powers

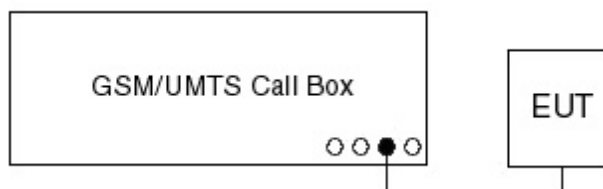


Figure 6-1. GSM/WCDMA Conducted Power Test Setup Diagram

6.3 Effective Radiated Power Output Data

§22.913(a)(2)

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

Frequency [MHz]	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBd]	Pol [H/V]	ERP [dBm]	ERP [Watts]	Battery Type
826.40	-18.310	20.17	0.00	V	20.17	0.104	Standard
836.60	-17.100	21.38	0.00	V	21.38	0.137	Standard
846.60	-17.510	20.97	0.00	V	20.97	0.125	Standard



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

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 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 13 of 36

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]	PoI [H/V]	EIRP [dBm]	EIRP [Watts]	Battery Type
1850.20	-13.750	20.96	8.00	H	28.96	0.787	Standard
1880.00	-14.200	20.51	8.00	H	28.51	0.710	Standard
1909.80	-13.200	21.51	8.00	H	29.51	0.893	Standard



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

NOTES:

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

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 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 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 14 of 36

6.5 Cellular WCDMA Radiated Measurements

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 826.40 MHz
 CHANNEL: 4132
 MEASURED OUTPUT POWER: 21.380 dBm = 0.137 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$: 34.38 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1652.80	-59.43	6.08	-53.35	V	74.7
2479.20	-56.67	6.54	-50.14	V	71.5
3305.60	-94.03	6.88	-87.16	V	108.5
4132.00	-91.92	7.25	-84.67	V	106.1
4958.40	-91.08	8.37	-82.71	V	104.1



Table 6-6. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4132)

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 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 15 of 36

Cellular WCDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.60 MHz
 CHANNEL: 4183
 MEASURED OUTPUT POWER: 21.380 dBm = 0.137 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$: 34.38 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1673.20	-58.74	6.09	-52.65	V	74.0
2509.80	-56.25	6.55	-49.69	V	71.1
3346.40	-93.94	6.89	-87.05	V	108.4
4183.00	-92.07	7.40	-84.66	V	106.0
5019.60	-90.85	8.35	-82.50	V	103.9



Table 6-7. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4183)

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 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 16 of 36

Cellular WCDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 846.60 MHz
 CHANNEL: 4233
 MEASURED OUTPUT POWER: 21.380 dBm = 0.137 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$: 34.38 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1693.20	-58.72	6.09	-52.63	V	74.0
2539.80	-56.50	6.57	-49.93	V	71.3
3386.40	-93.82	6.91	-86.91	V	108.3
4233.00	-92.27	7.62	-84.65	V	106.0
5079.60	-90.52	8.33	-82.19	V	103.6



Table 6-8. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4233)

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 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 17 of 36

6.6 PCS GSM Radiated Measurements

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1850.20 MHz
 CHANNEL: 512
 MEASURED OUTPUT POWER: 29.510 dBm = 0.893 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 42.51 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3700.40	-40.31	9.02	-31.29	H	60.8
5550.60	-33.87	10.40	-23.47	H	53.0
7400.80	-63.01	10.50	-52.51	H	82.0
9251.00	-84.98	11.85	-73.13	H	102.6
11101.20	-82.61	12.76	-69.85	H	99.4



Table 6-9. 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 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 18 of 36

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: 29.510 dBm = 0.893 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 42.51 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-36.44	8.99	-27.45	H	57.0
5640.00	-33.93	10.40	-23.53	H	53.0
7520.00	-85.96	10.62	-75.34	H	104.9
9400.00	-84.74	11.70	-73.04	H	102.5
11280.00	-81.89	12.69	-69.20	H	98.7



Table 6-10. 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 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 19 of 36

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: 29.510 dBm = 0.893 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 42.51 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3819.60	-36.38	8.97	-27.41	H	56.9
5729.40	-35.00	10.40	-24.60	H	54.1
7639.20	-85.84	10.71	-75.13	H	104.6
9549.00	-84.52	11.64	-72.88	H	102.4
11458.80	-81.18	12.62	-68.56	H	98.1



Table 6-11. 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 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.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 20 of 36

6.7 Cellular WCDMA Frequency Stability Measurements

§2.1055, 22.355

OPERATING FREQUENCY: 836,600,000 Hz

CHANNEL: 4183

REFERENCE VOLTAGE: 3.8 VDC

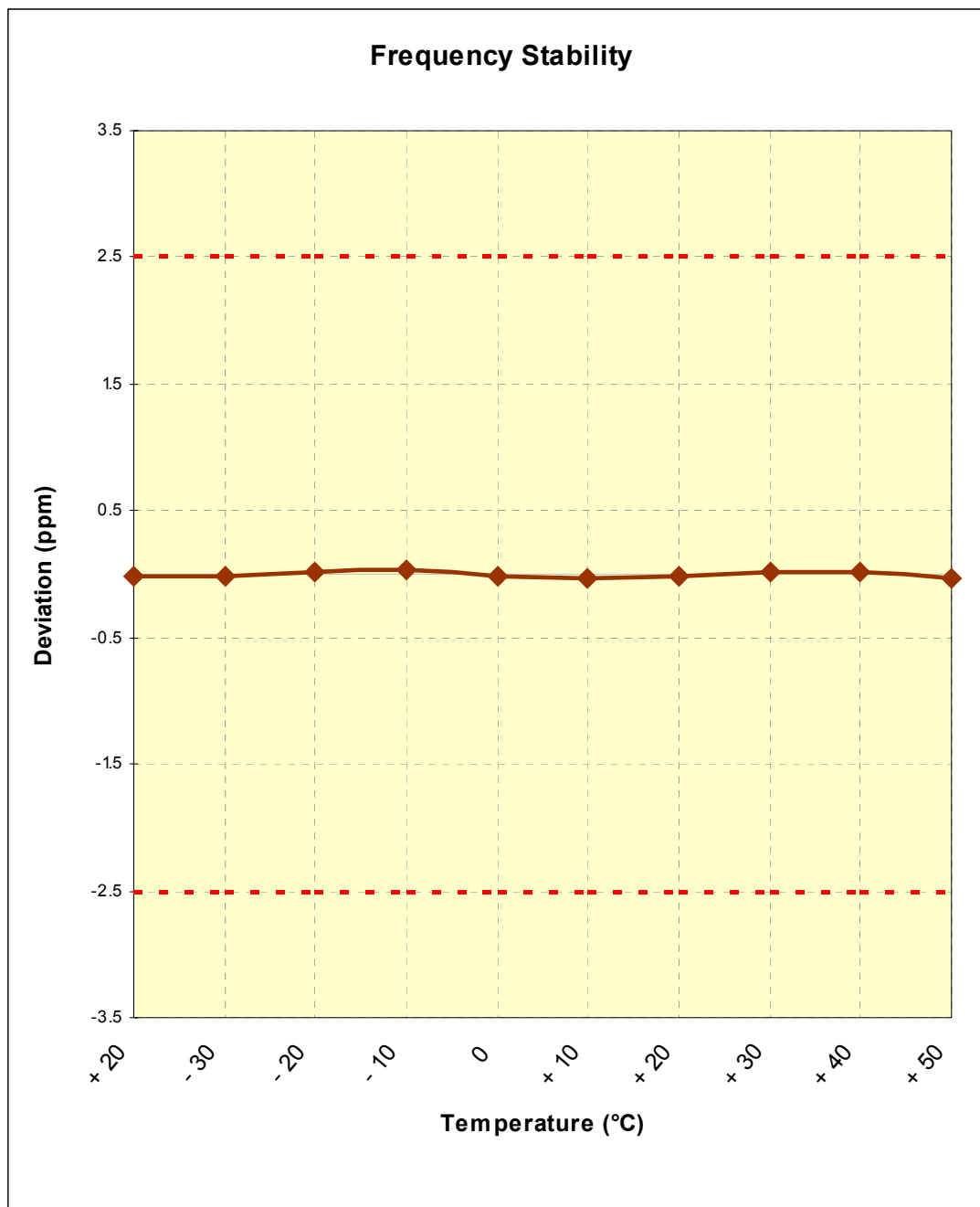
DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	836,599,983	-17	-0.000002
100 %		- 30	836,599,981	-19	-0.000002
100 %		- 20	836,600,013	13	0.000002
100 %		- 10	836,600,023	23	0.000003
100 %		0	836,599,981	-19	-0.000002
100 %		+ 10	836,599,978	-22	-0.000003
100 %		+ 20	836,599,983	-17	-0.000002
100 %		+ 30	836,600,018	18	0.000002
100 %		+ 40	836,600,021	21	0.000003
100 %		+ 50	836,599,978	-22	-0.000003
115 %	4.37	+ 20	836,599,982	-18	-0.000002
BATT. ENDPOINT	3.41	+ 20	836,600,034	34	0.000004



Table 6-12. Frequency Stability Data (Cellular WCDMA Mode – Ch. 4183)

Cellular WCDMA Frequency Stability Measurements (Cont'd)

§2.1055, 22.355



Plot 6-1. Frequency Stability Graph (Cellular WCDMA Mode – Ch. 4183)

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 22 of 36

6.8 PCS GSM Frequency Stability Measurements

§2.1055, 24.235

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 661

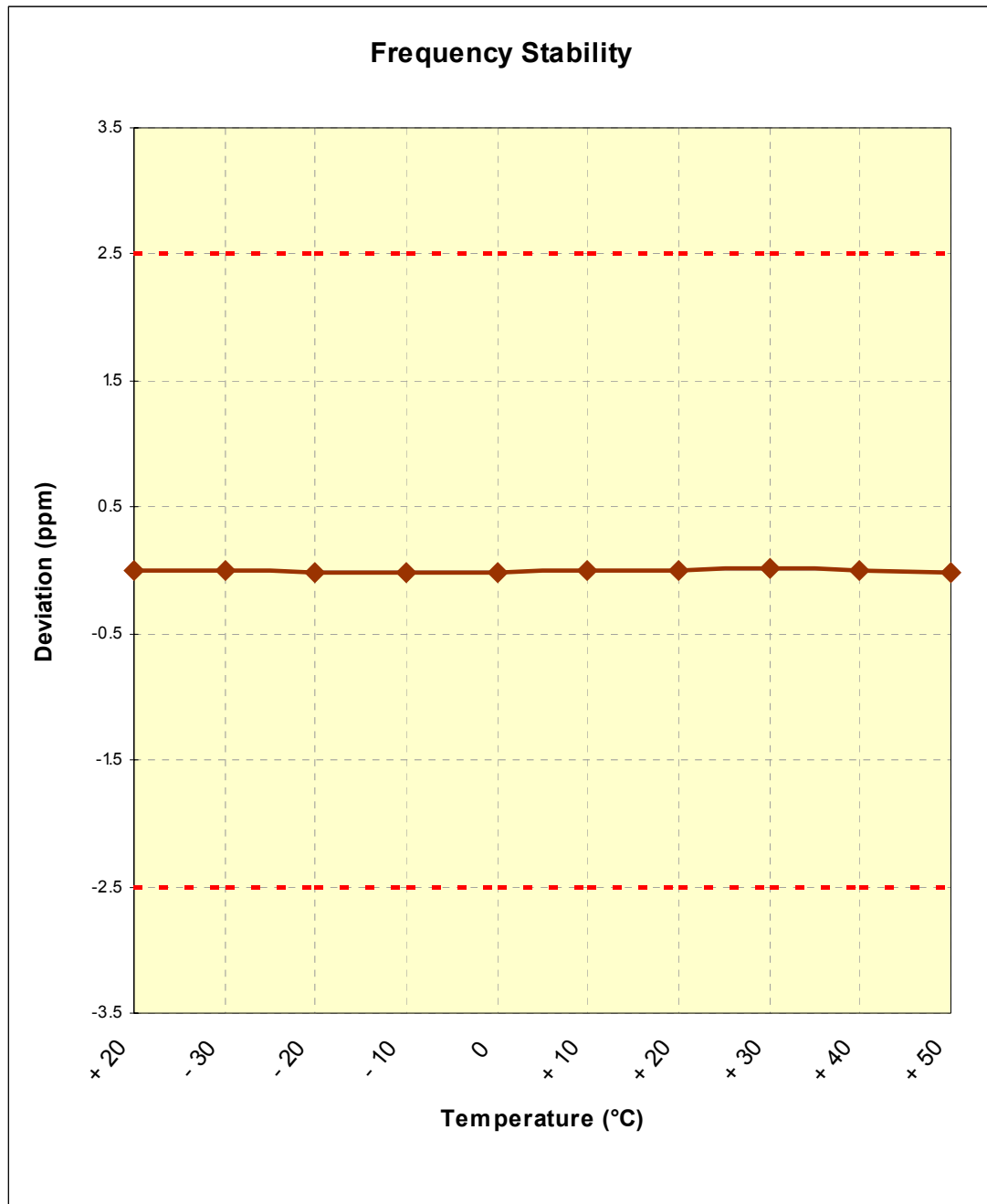
REFERENCE VOLTAGE: 3.8 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm



VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	1,880,000,012	12	0.000001
100 %		- 30	1,879,999,986	-14	-0.000001
100 %		- 20	1,879,999,979	-21	-0.000001
100 %		- 10	1,879,999,973	-27	-0.000001
100 %		0	1,879,999,984	-16	-0.000001
100 %		+ 10	1,879,999,992	-8	0.000000
100 %		+ 20	1,880,000,012	12	0.000001
100 %		+ 30	1,880,000,016	16	0.000001
100 %		+ 40	1,879,999,986	-14	-0.000001
100 %		+ 50	1,879,999,978	-22	-0.000001
115 %	4.37	+ 20	1,880,000,024	24	0.000001
BATT. ENDPOINT	3.41	+ 20	1,879,999,973	-27	-0.000001

Table 6-13. Frequency Stability Data (PCS GSM Mode – Ch. 661)

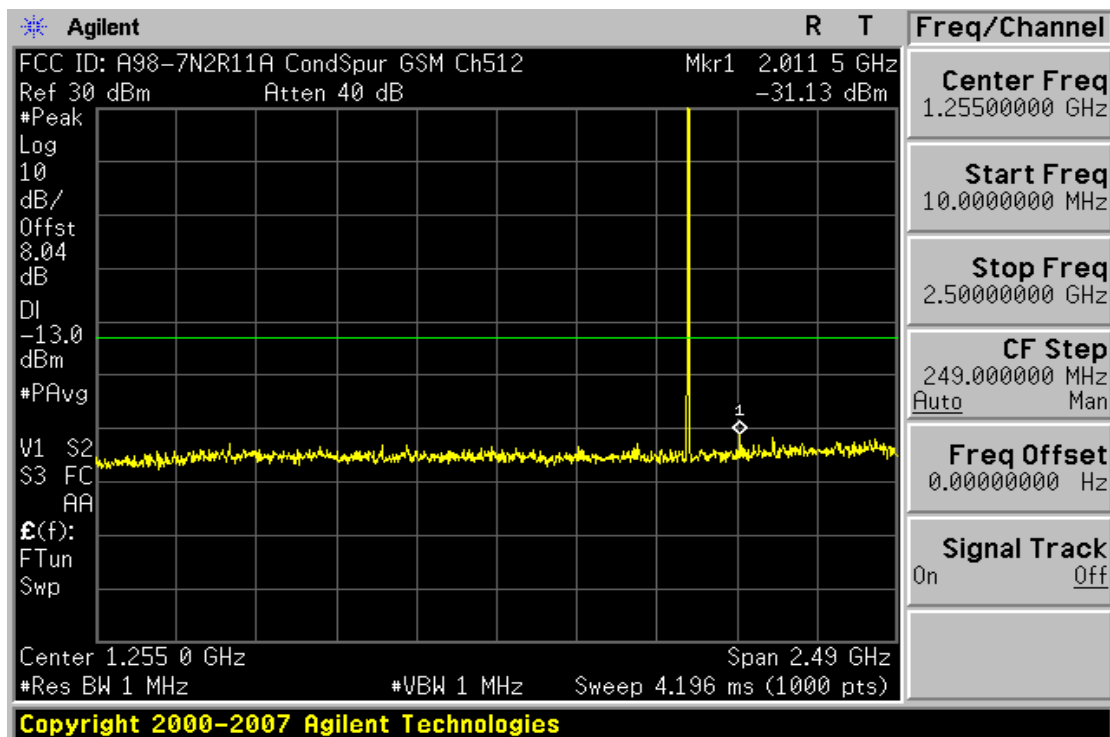
PCS GSM Frequency Stability Measurements (Cont'd)
§2.1055, 24.235



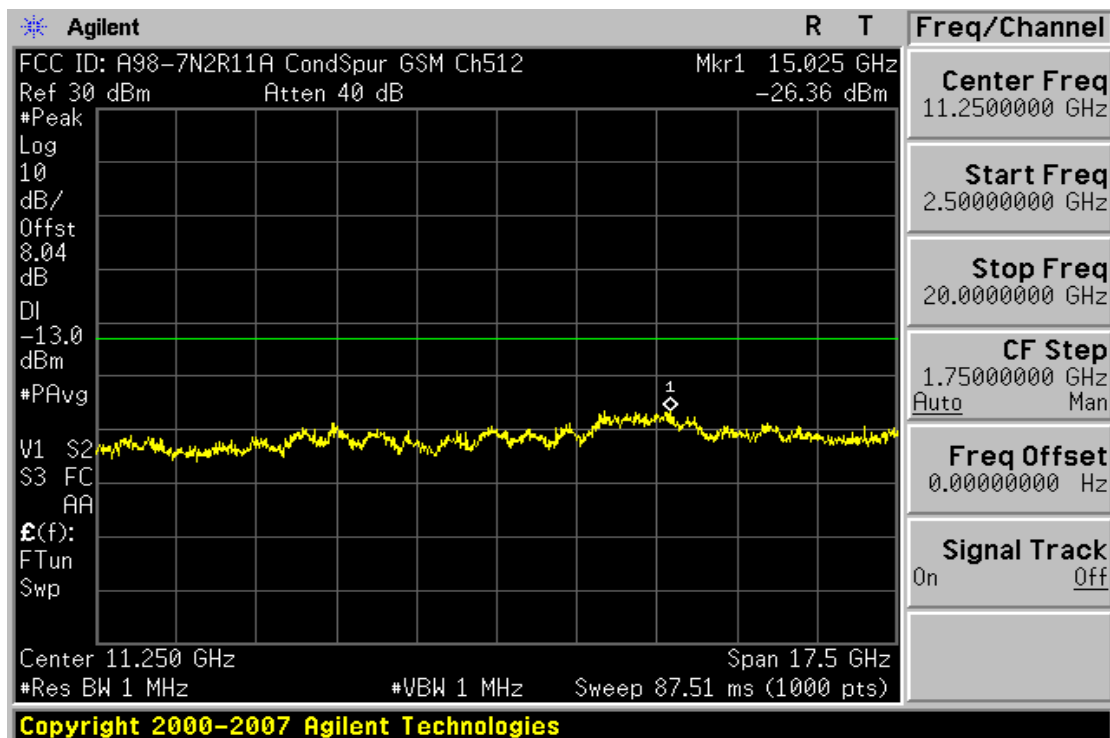
Plot 6-2. Frequency Stability Graph (PCS GSM Mode – Ch. 661)

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 24 of 36

7.0 PLOTS OF EMISSIONS

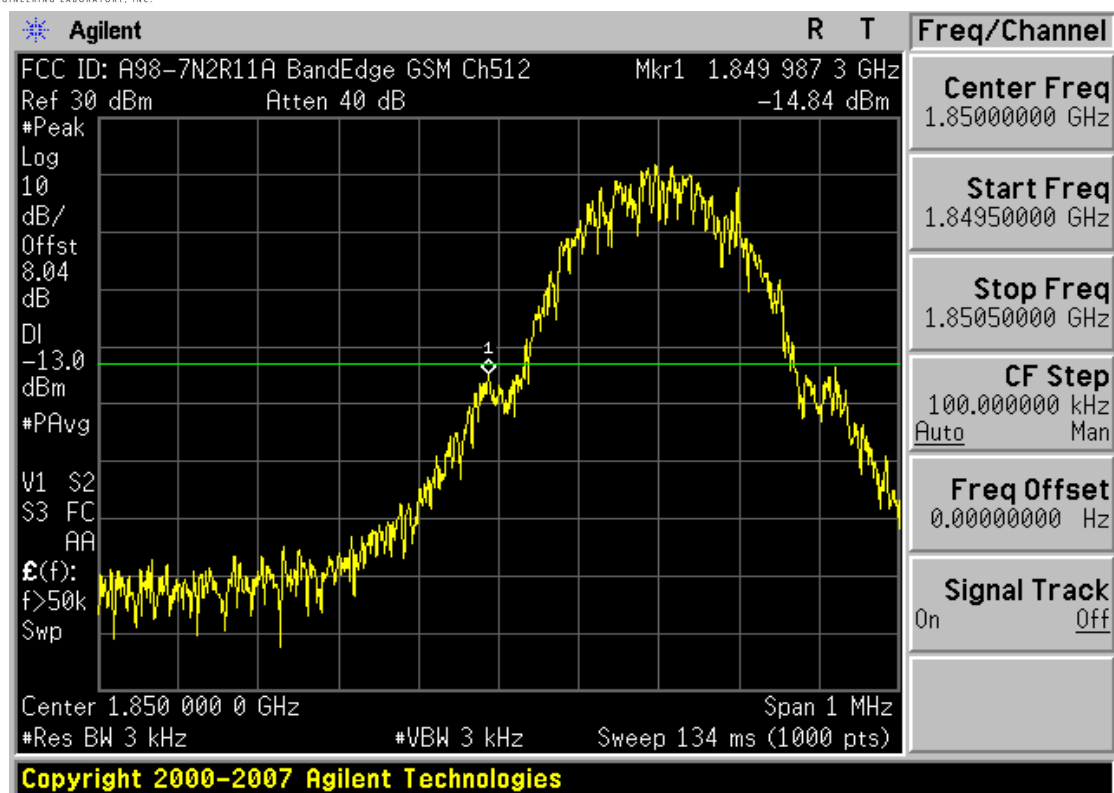


Plot 7-1. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

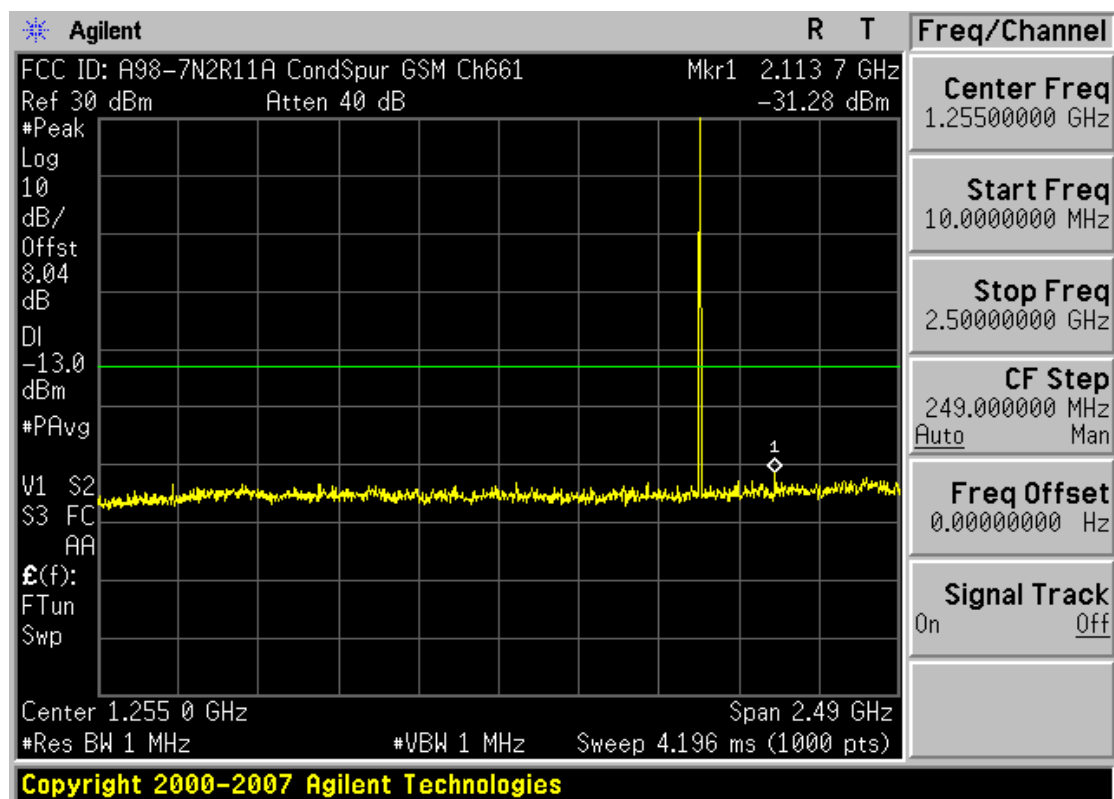


Plot 7-2. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 25 of 36

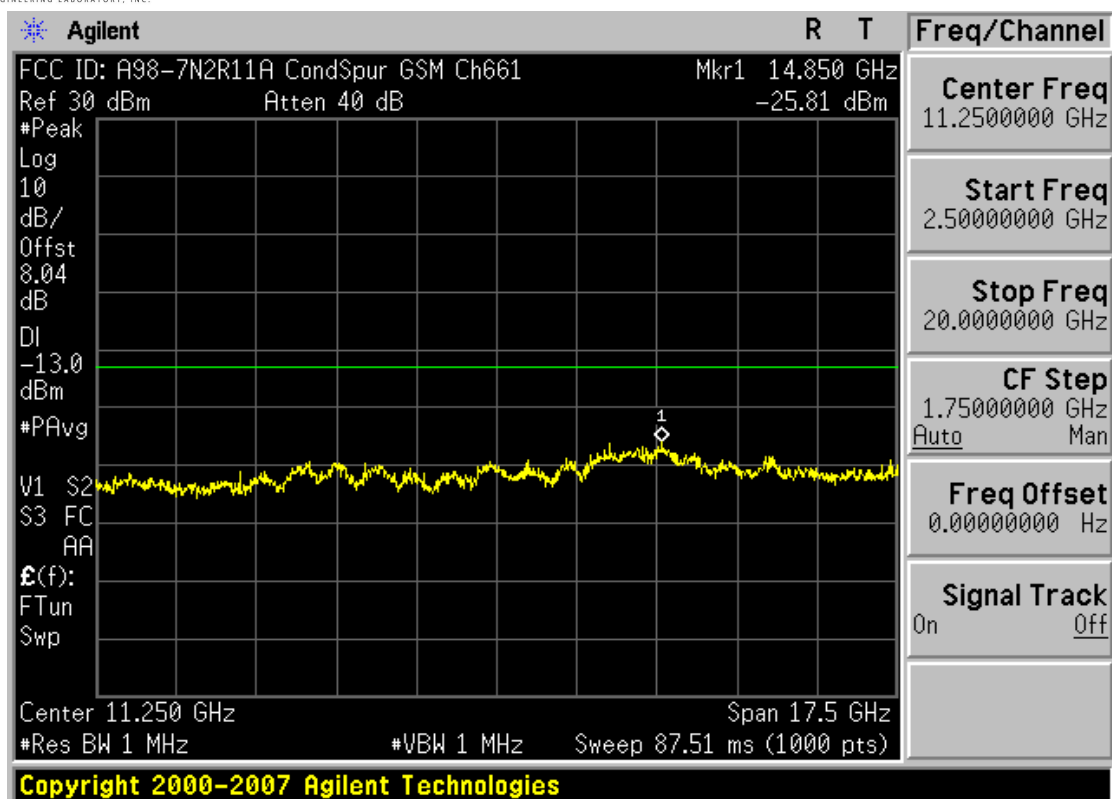


Plot 7-3. Band Edge Plot (PCS GSM Mode – Ch. 512)



Plot 7-4. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 26 of 36

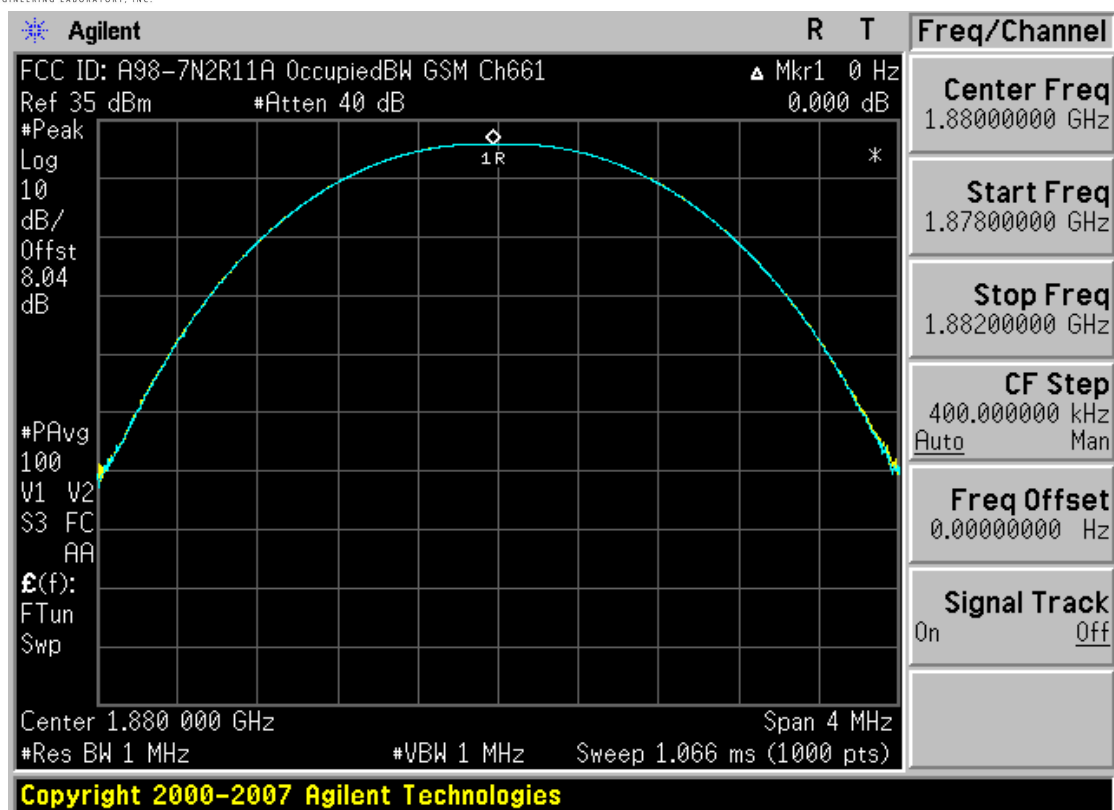


Plot 7-5. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

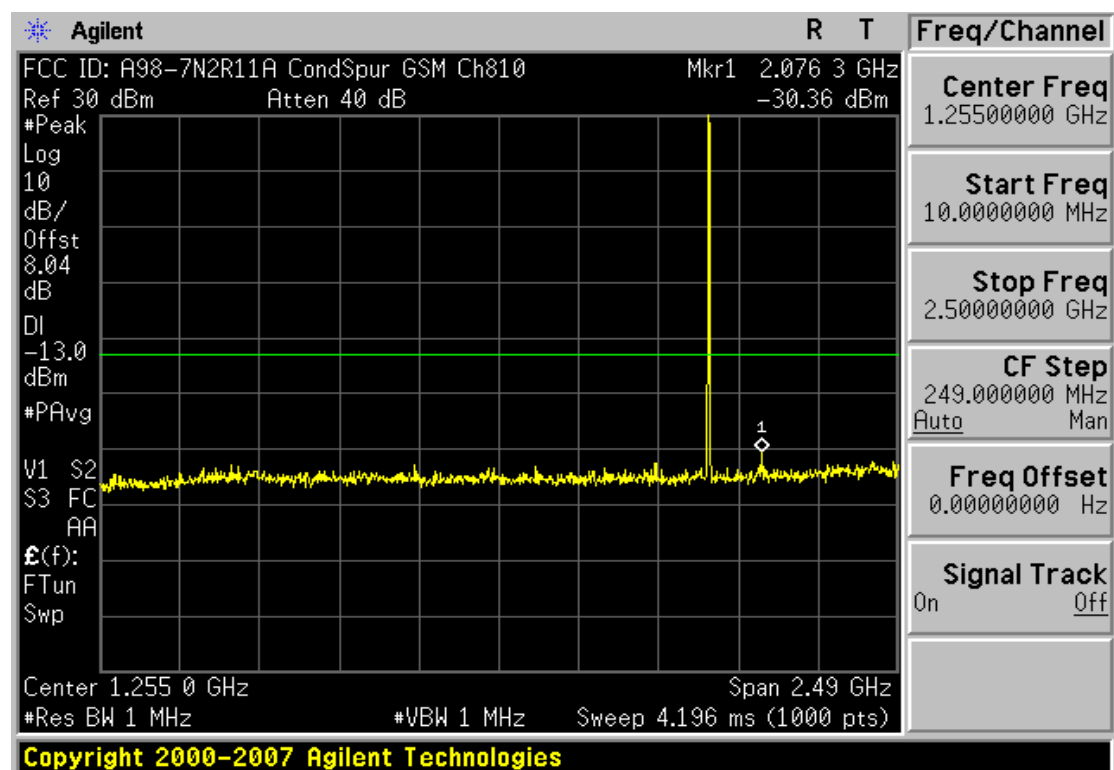


Plot 7-6. Occupied Bandwidth Plot (PCS GSM Mode – Ch. 661)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 27 of 36

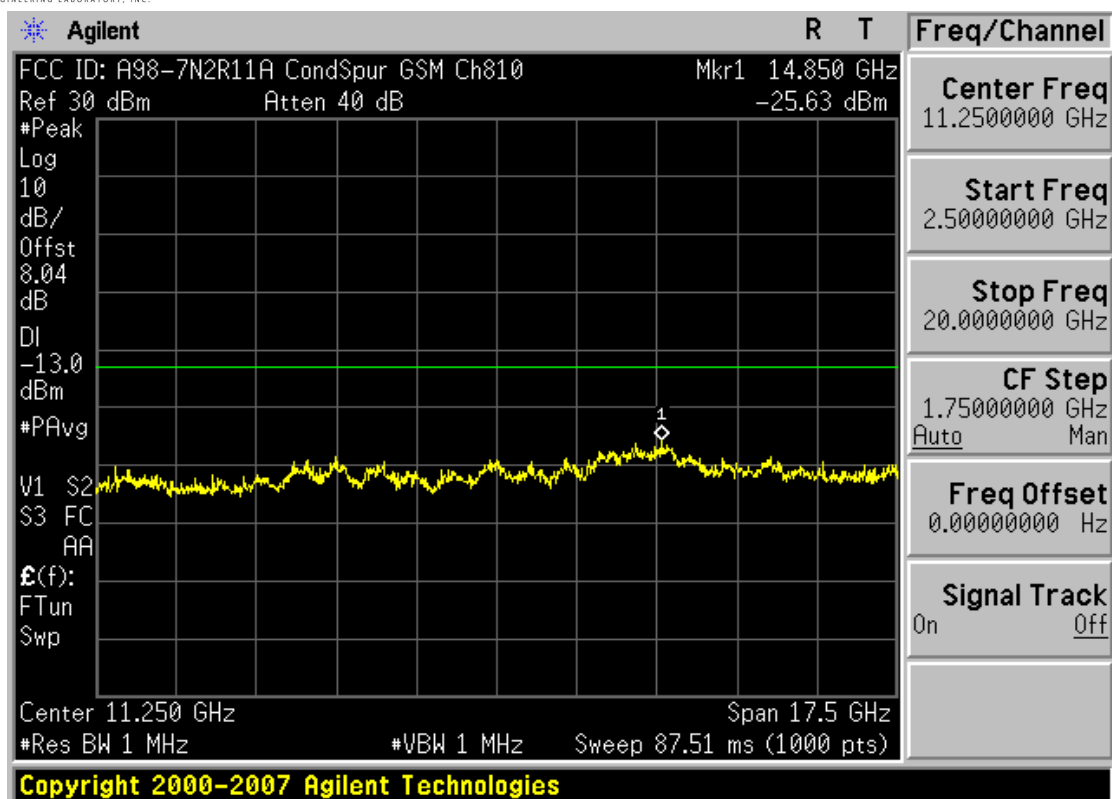


Plot 7-7. Peak-Average Ratio Plot (PCS GSM Mode – Ch. 661)

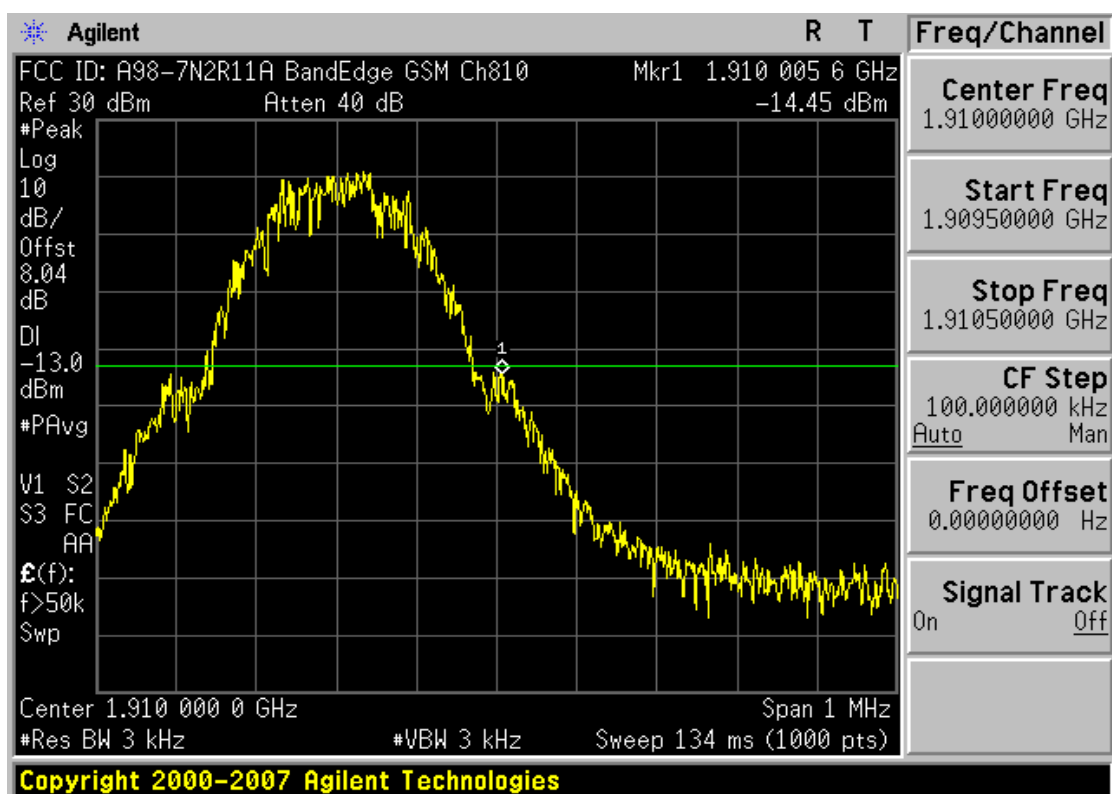


Plot 7-8. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 28 of 36

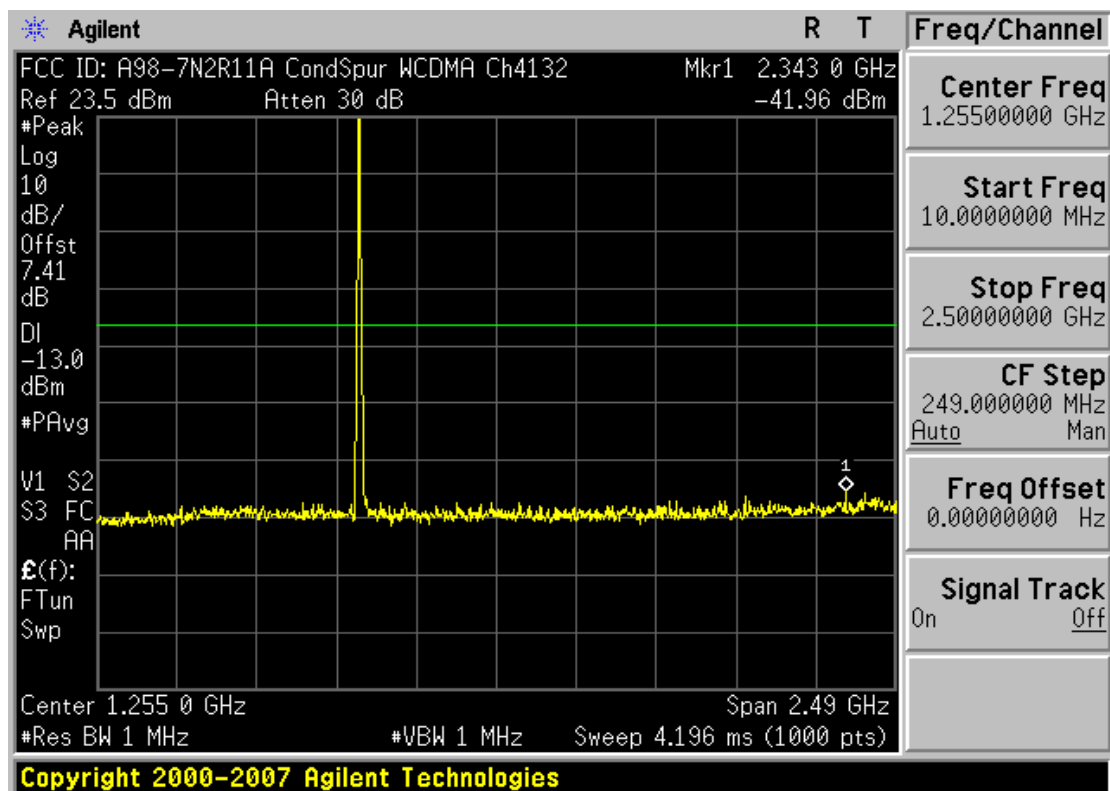


Plot 7-9. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

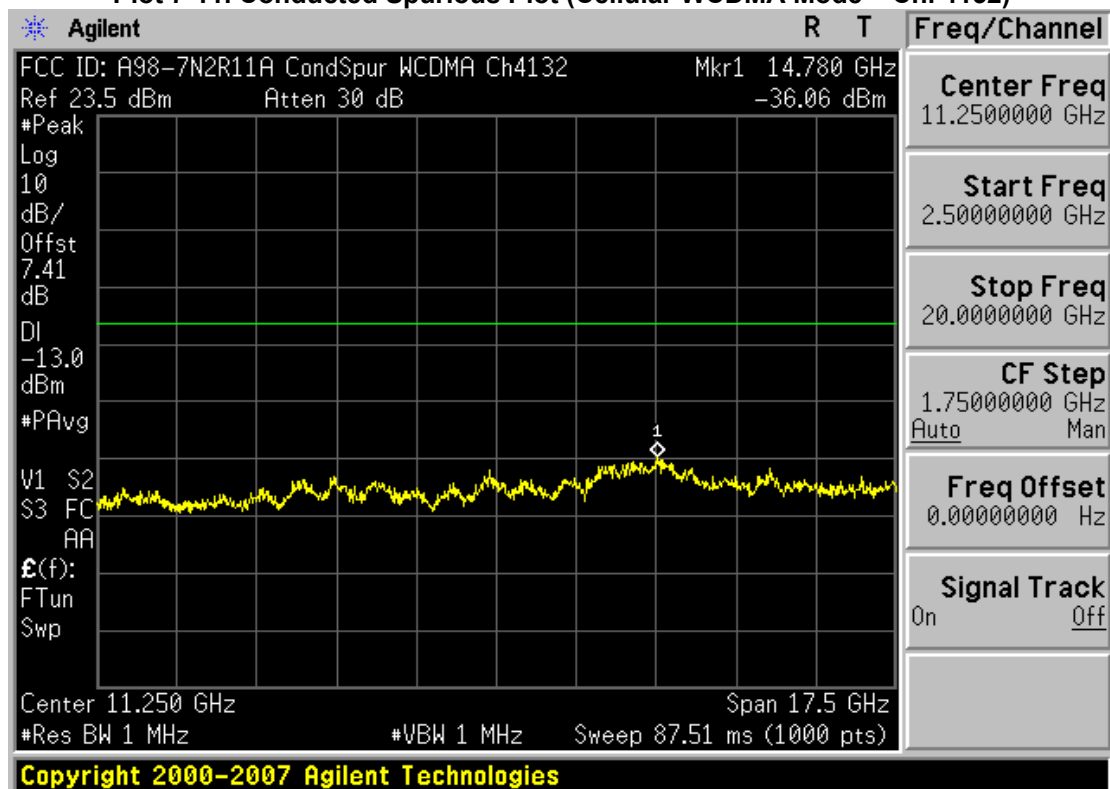


Plot 7-10. Band Edge Plot (PCS GSM Mode – Ch. 810)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 29 of 36

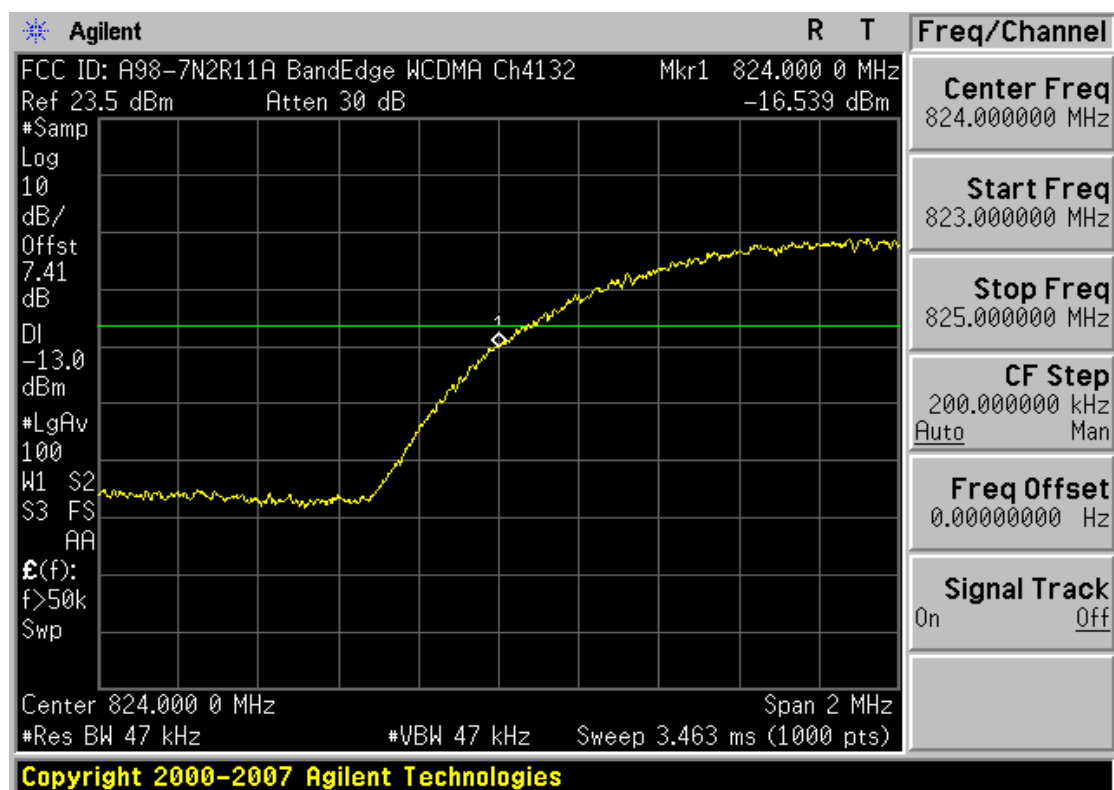


Plot 7-11. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)

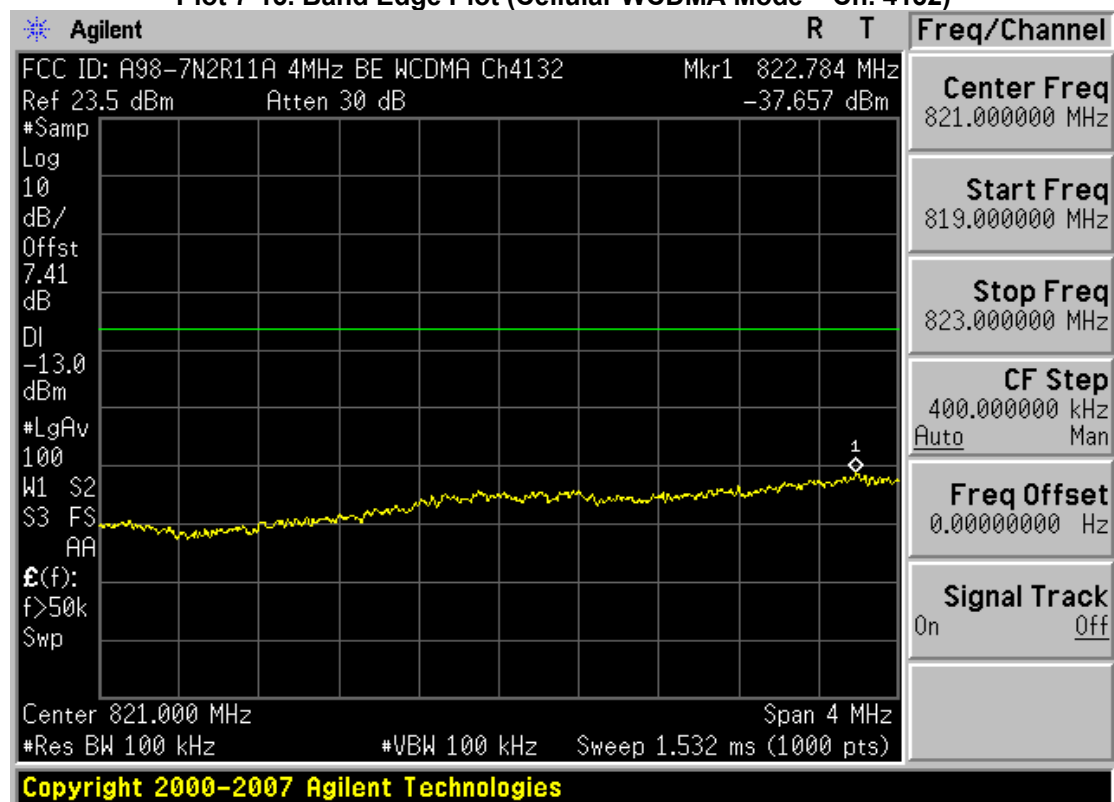


Plot 7-12. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 30 of 36

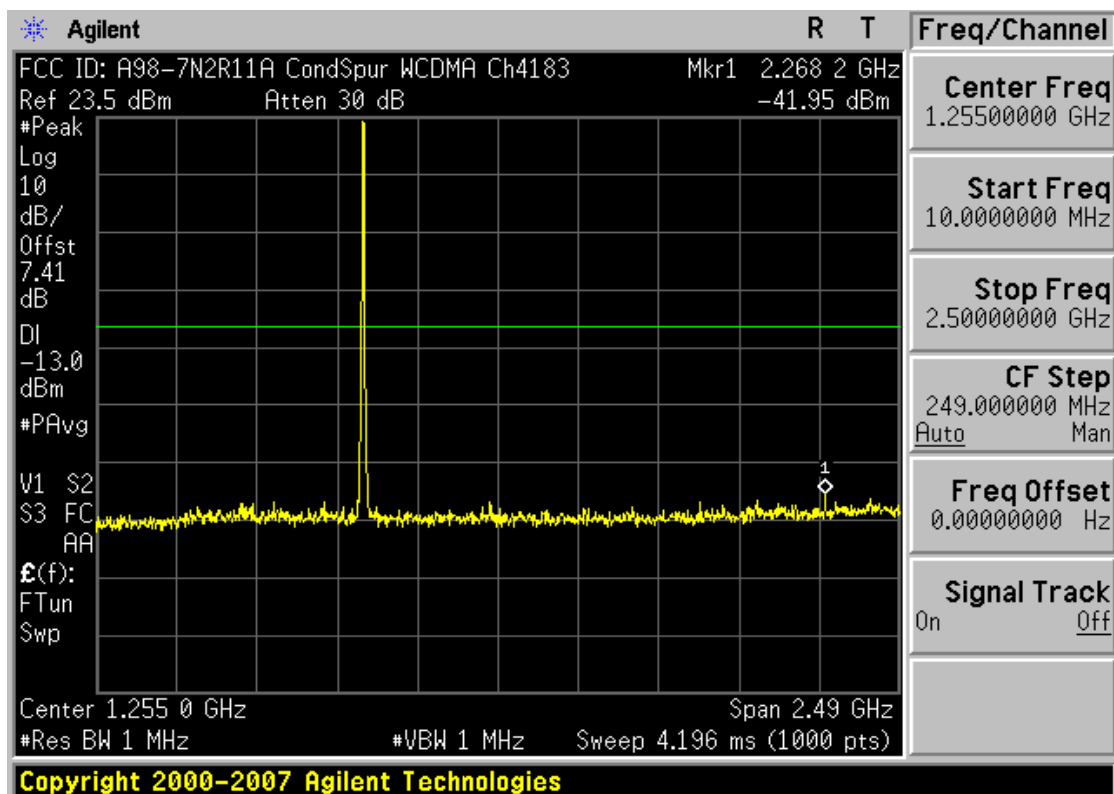


Plot 7-13. Band Edge Plot (Cellular WCDMA Mode – Ch. 4132)

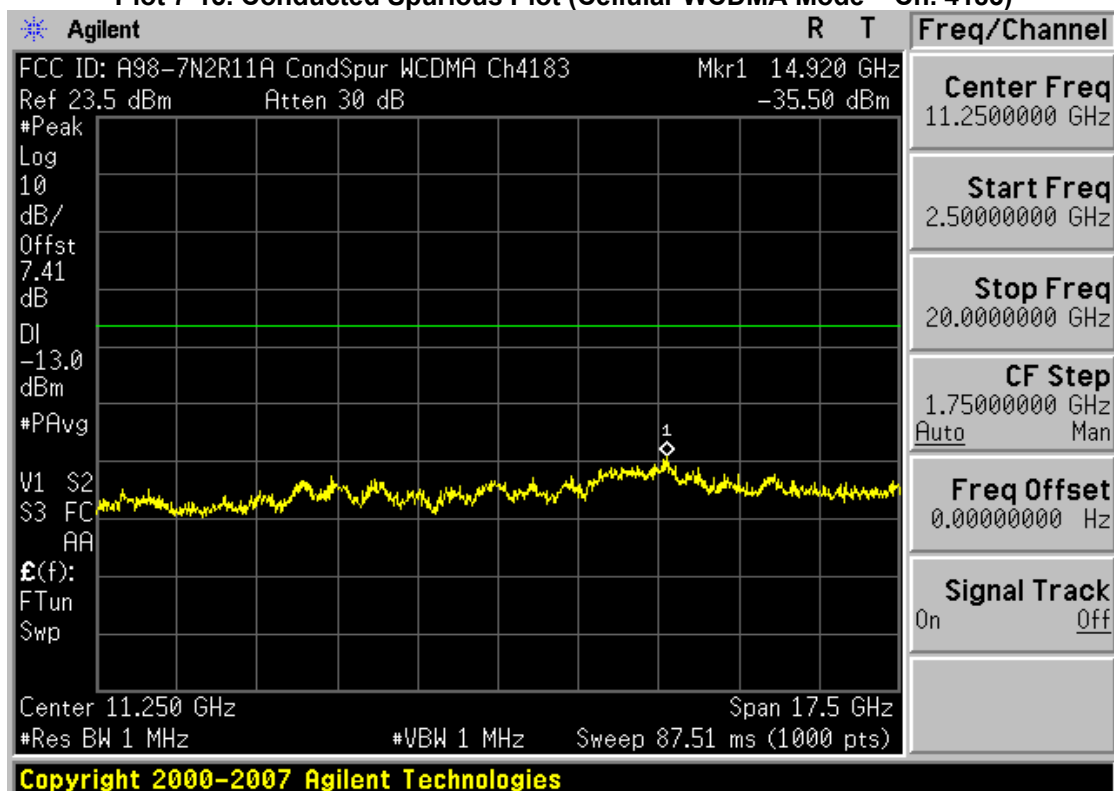


Plot 7-14. 4MHz Span Plot (Cellular WCDMA Mode – Ch. 4132)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 31 of 36

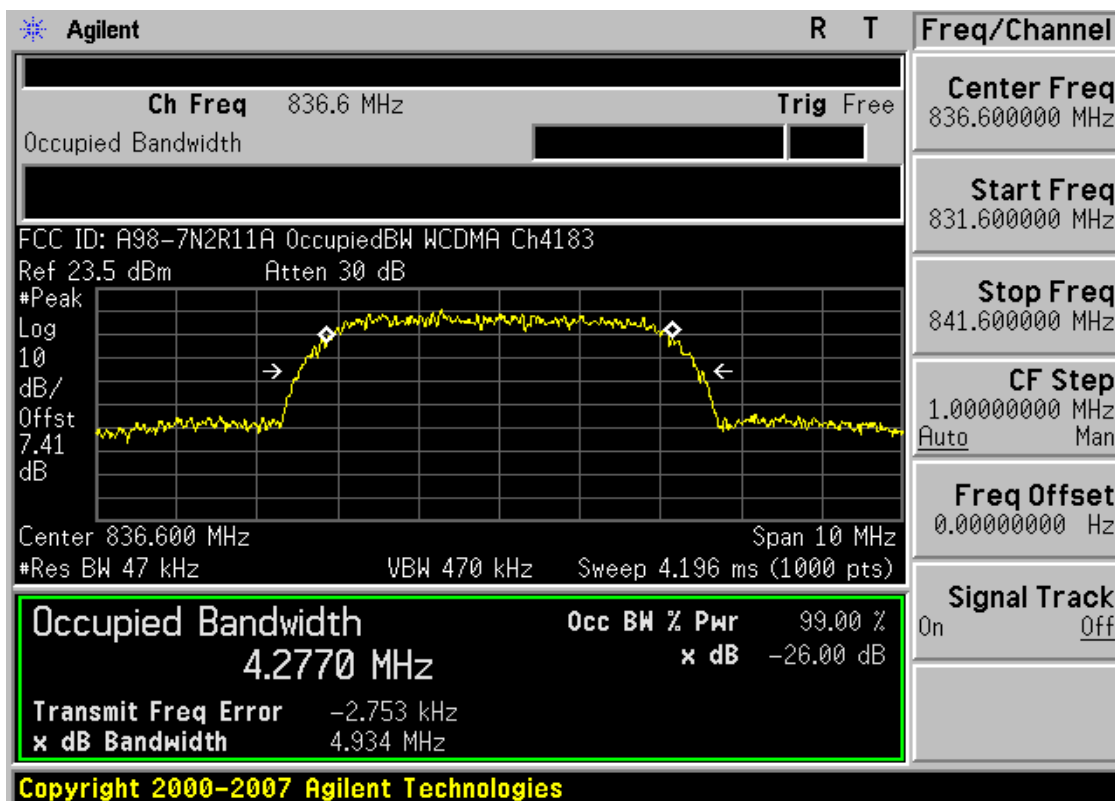


Plot 7-15. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4183)

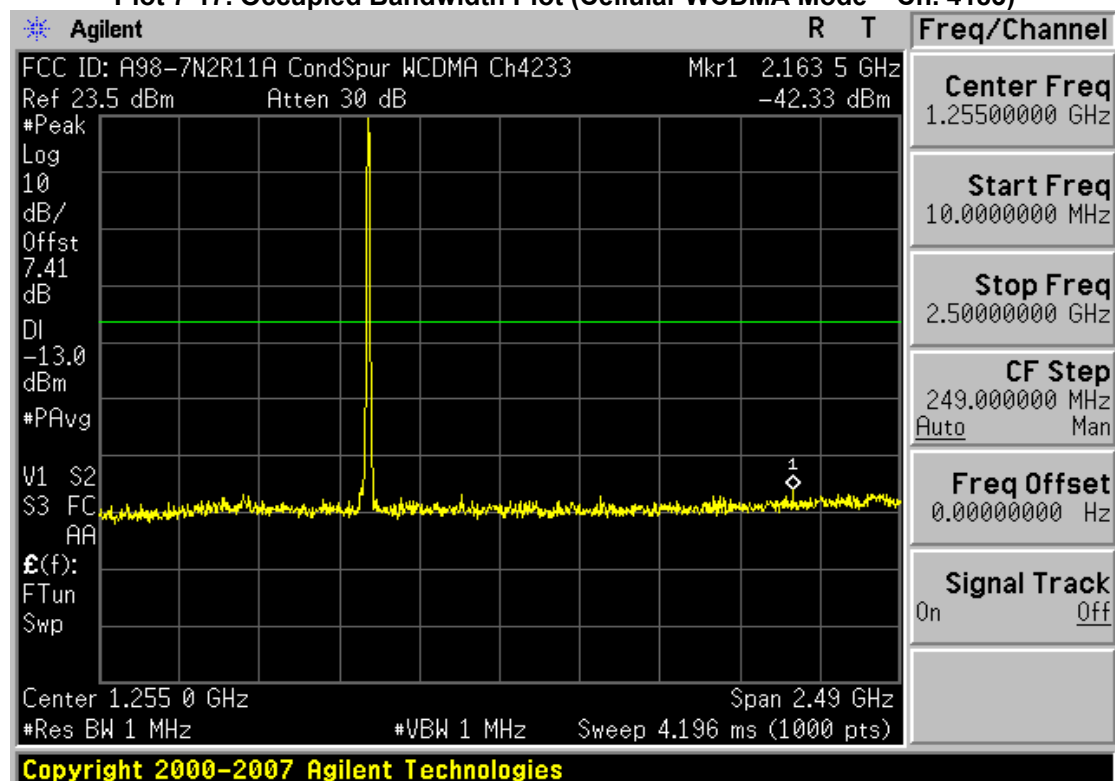


Plot 7-16. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4183)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 32 of 36

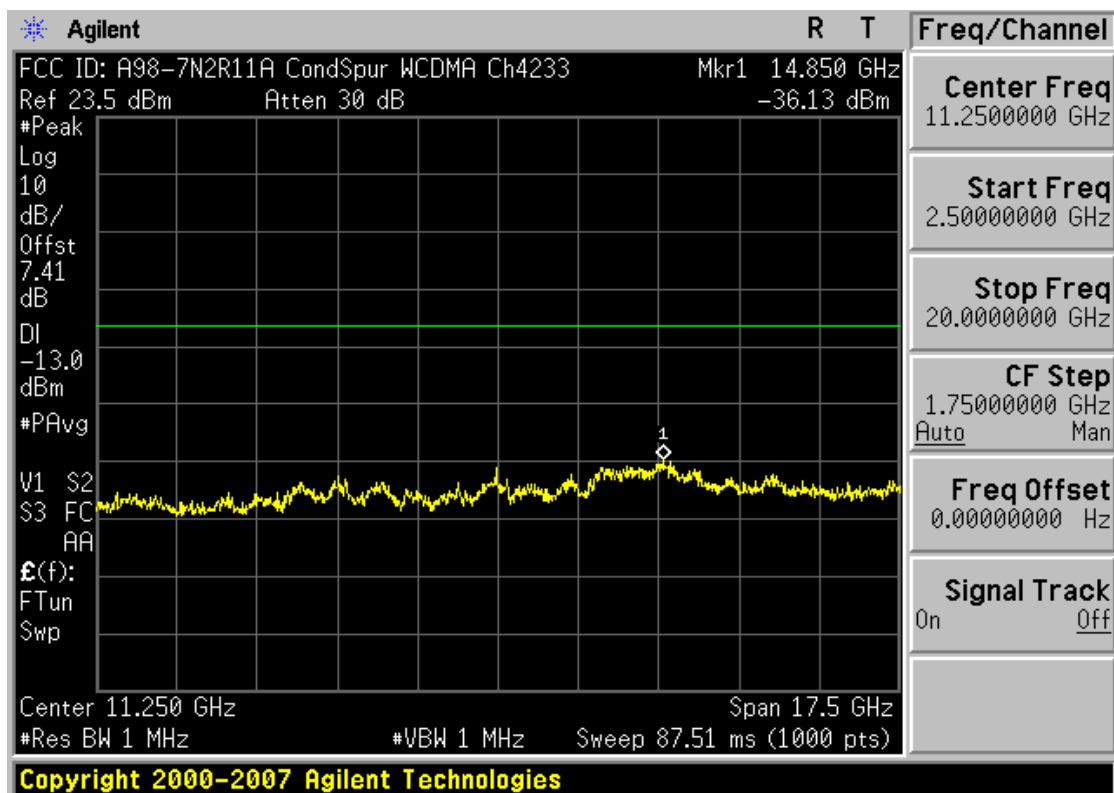


Plot 7-17. Occupied Bandwidth Plot (Cellular WCDMA Mode – Ch. 4183)

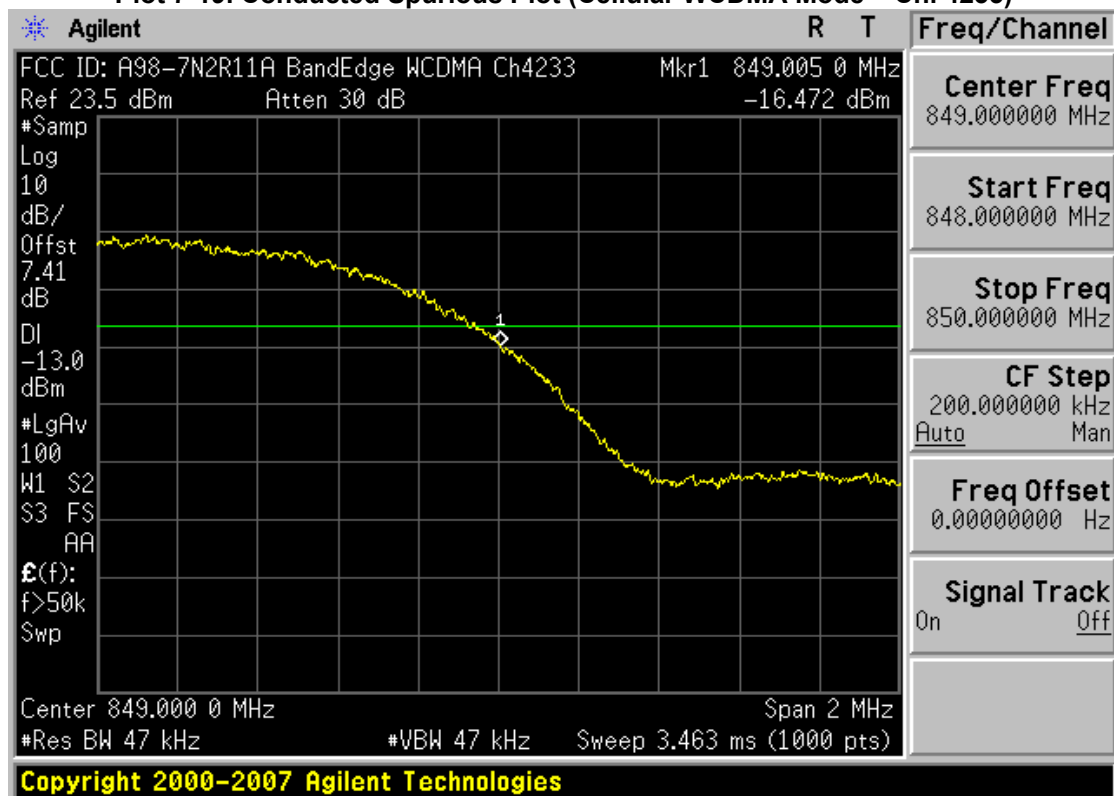


Plot 7-18. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4233)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 33 of 36

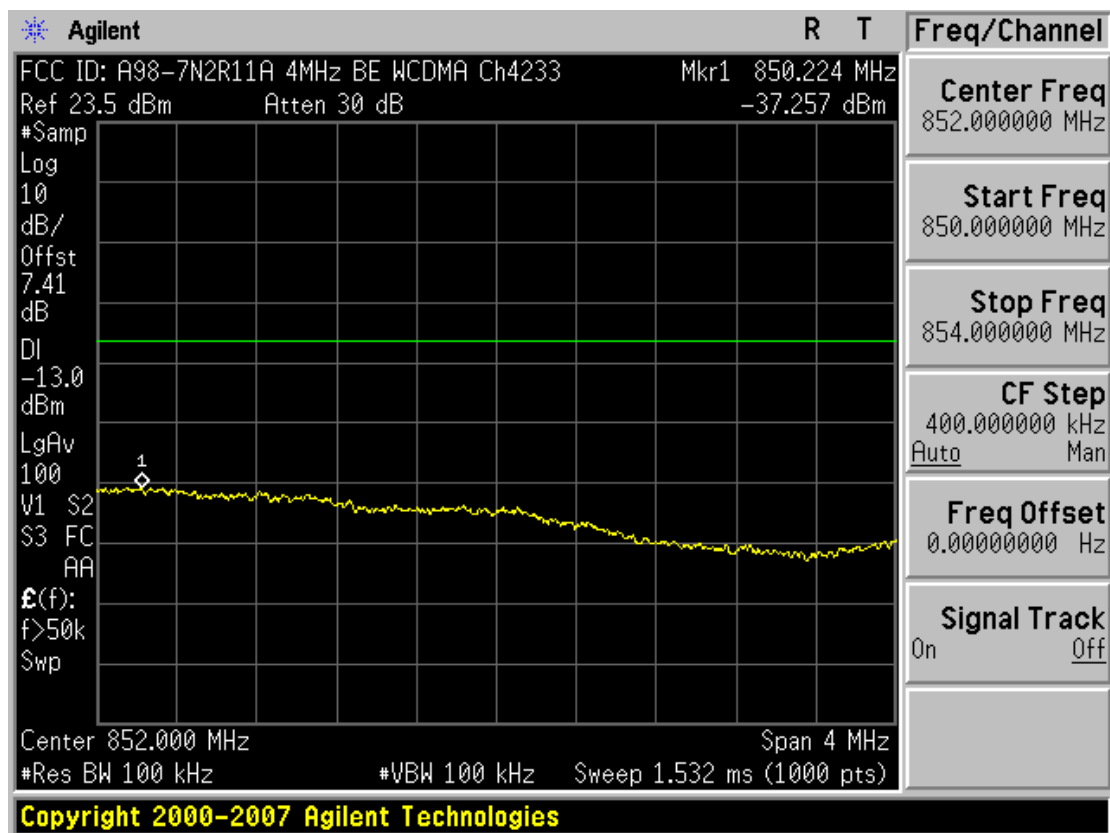


Plot 7-19. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4233)



Plot 7-20. Band Edge Plot (Cellular WCDMA Mode – Ch. 4233)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 34 of 36




Plot 7-21. 4MHz Span Plot (Cellular WCDMA Mode – Ch. 4233)

FCC ID: A98-7N2R11A	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
Test Report S/N: 0807301051.A98	Test Dates: July 31- August 11, 2008	EUT Type: 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID		Page 35 of 36

8.0 CONCLUSION

The data collected show that the **NEC 850 WCDMA / 1900 GSM/GPRS Phone with Bluetooth and RFID FCC ID: A98-7N2R11A** complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

FCC ID: A98-7N2R11A		FCC Pt. 22/24 WCDMA/GSM MEASUREMENT REPORT (CERTIFICATION)	NEC	Reviewed by: Quality Manager
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