



PCTEST ENGINEERING LABORATORY, INC.

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<http://www.pctestlab.com>



CERTIFICATE OF COMPLIANCE FCC Part 22 & 24 Class II Permissive Change

Applicant Name:
LG Electronics USA
1000 Sylvan Avenue
Englewood Cliffs, NJ 07632
United States

Date of Testing:
June 10-12, 2008
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0806110813.BEJ

| | |
|-------------------|---------------------------|
| FCC ID: | BEJLTGEN80L |
| APPLICANT: | LG ELECTRONICS USA |


Application Type: Class II Permissive Change
FCC Classification: PCS Licensed Transmitter (PCB)
FCC Rule Part(s): §2; §22(H), §24(E)
EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth
Model(s): GEN8.0L
Tx Frequency Range: 824.04 - 848.97MHz (AMPS) / 824.70 - 848.31MHz (Cell. CDMA)
1851.25 - 1908.75MHz (PCS CDMA)
Max. RF Output Power: 0.558 W ERP AMPS (27.47 dBm) / 0.44 W ERP Cell. CDMA (26.43 dBm)
0.454 W EIRP PCS CDMA (26.57 dBm)
Emission Designator(s): 40K0F8W, 40K0F1D (AMPS) / 1M27F9W (CDMA) / 1M26F9W (PCS)
Test Device Serial No.: *identical prototype* [S/N: 805KSAJ452728]
Class II Permissive Change: See change document.
Original Grant Date: October 23, 2007

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.

Power output listed above 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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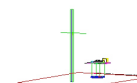
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MEASUREMENT REPORT

FCC Part 22 & 24



§2.1033 General Information



APPLICANT: LG Electronics USA
APPLICANT ADDRESS: 1000 Sylvan Avenue
 Englewood Cliffs, NJ 07632
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)
MODEL NAME: GEN8.0L
FCC ID: BEJLTGEN80L
FCC CLASSIFICATION: PCS Licensed Transmitter (PCB)
EMISSION DESIGNATOR(S): 40K0F8W, 40K0F1D (AMPS) / 1M27F9W (CDMA) / 1M26F9W (PCS)
MODE: AMPS / CDMA
FREQUENCY TOLERANCE: $\pm 0.00025\%$ (2.5 ppm)
Test Device Serial No.: 805KSAJ452728 ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: June 10-12, 2008
TEST REPORT S/N: 0806110813.BEJ

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 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (see Figure 1-1). 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.

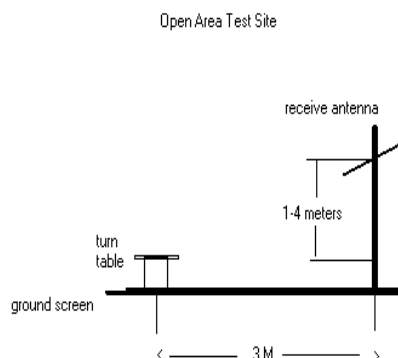


Figure 1-1. Diagram of 3-meter outdoor test range

Deviation from Measurement Procedure.....None

1.2 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.

1.3 Testing Facility

These measurement tests were conducted at 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.

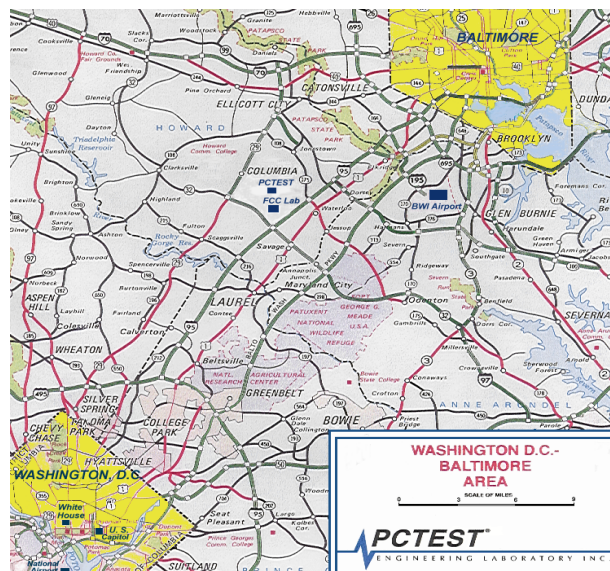


Figure 1-2. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Cellular/PCS AMPS/CDMA Transceiver with Bluetooth FCC ID: BEJLTGEN80L**. The EUT consisted of the following component(s):

| Manufacturer / Model | FCC ID | Description |
|----------------------|-------------|---|
| LG / Model: GEN8.0L | BEJLTGEN80L | Cellular/PCS AMPS/CDMA Transceiver with Bluetooth |
| AC Delco | N/A | Antenna |

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 15.19; Docket 95-19

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 Transmitter Audio Frequency Response

§2.1047, TIA/EIA-553-A (2.1.3.1.4)

The frequency response of the audio modulating circuit over the frequency range 100 – 5000 Hz is measured. The audio signal generator is connected to the audio input circuit/microphone of the EUT. The audio signal input is adjusted to obtain 50% modulation at 1kHz and this point is taken as the 0dB reference. With the input held constant and below the limit at all frequencies, the audio signal generator is varied from 100 to 50 kHz.

3.2 Audio Low Pass Filter Frequency Response

§2.1047, TIA/EIA-553-A (2.1.3.1.4); RSS-129 (6.2)

The response in dB relative to 1kHz is measured using the HP8901 a Modulation Analyzer. For the frequency response of the audio low-pass filter, the audio input is connected at the input to the modulation limiter and the modulated stage. The audio output is connected at the output of the modulated stage. The corresponding plots are shown herein.

3.3 Modulation Limiting

§2.1047, TIA/EIA-553-A (2.1.3.1.3); RSS-129 (6.1)

The audio signal generator is connected to the audio input circuit/microphone of the EUT. The modulation response is measured for each of the three modulating frequencies (300Hz, 1000Hz, and 3000Hz), and the input voltage is varied from 30% modulation (± 3.6 kHz deviation) to at least 20dB higher than the saturation point. Measurements of modulation and the plots are attached herein. Measurements were performed for ST, SAT, and wide-band data modulations. The corresponding results are shown herein.

Note: ST, SAT, & Wide-Band data were internally generated by the EUT.

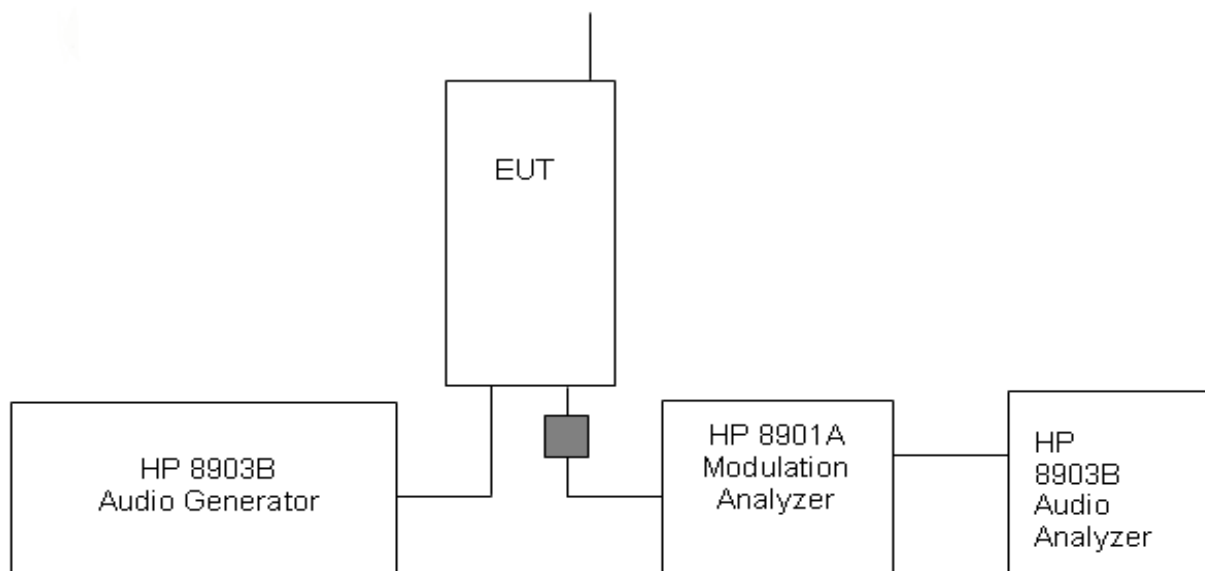


Figure 3-1. Transmitter Audio Frequency & Tone Modulation Test Setup

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3.4 Sideband Power Attenuation Limits (AMPS)

§2.1047, TIA/EIA-553-A (2.1.4.1); RSS-129 (6.3.2)

The audio signal generator is adjusted to 1 kHz. The output level is set to ± 6 kHz deviation. With the level constant, the frequency is set to 2500 Hz. Then the audio signal level is increased by 16 dB. The occupied bandwidth data is obtained for the SAT (Supervisory Audio Tone), ST (Signaling Tone), WBD (Wideband data), and DTMF (Dual Tone Multi Frequencies). The results are shown on the attached graphs.

Specified Limits:

- On any frequency removed from the assigned carrier frequency by more than 20 kHz, up to and including 45 kHz, the sideband is at least 26 dB below the carrier.
- On any frequency removed from the assigned carrier frequency by more than the 45 kHz, up to and including 90 kHz, the sideband is at least 45 dB below the carrier.
- On any frequency removed from the assigned carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency, the sideband is at least 60dB below the carrier or $43 + \log_{10}(\text{mean power output in Watts})$ dB, whichever is the smaller attenuation.

3.5 Spurious and Harmonic Emissions at Antenna Terminal



§2.1051, 22.917(a), 24.238(a); RSS-129 (8.1.1), RSS-133 (6.5.1)

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.

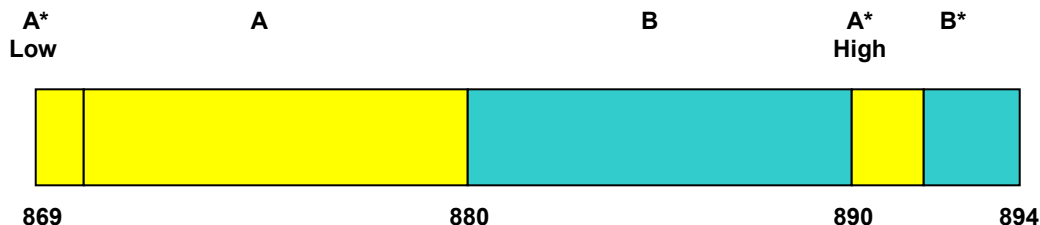
3.6 Occupied Bandwidth Emission Limits

§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.

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3.7 Cellular - Base Frequency Blocks



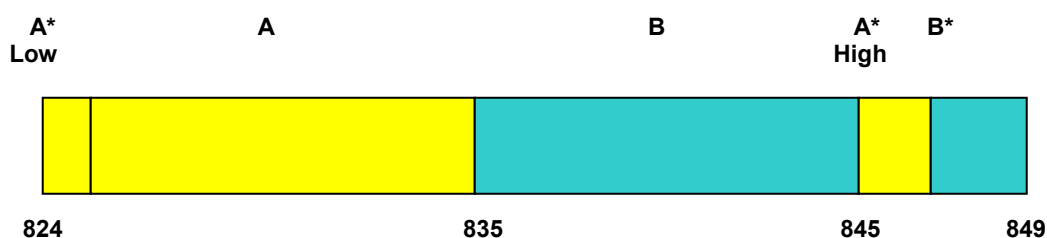
BLOCK 1: 869 – 880 MHz (A* Low + A)

BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 2: 880 – 890 MHz (B)

BLOCK 4: 891.5 – 894 MHz (B*)

3.8 Cellular - Mobile Frequency Blocks



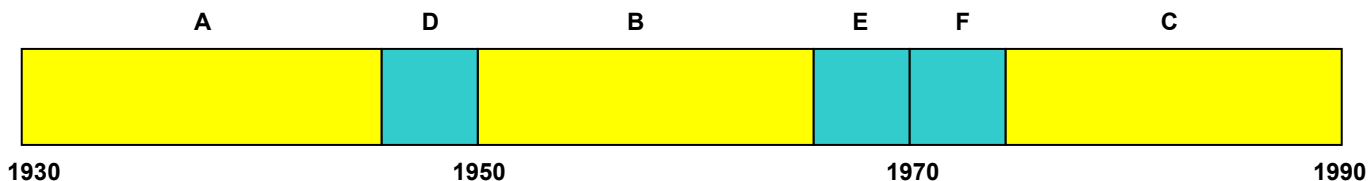
BLOCK 1: 824 – 835 MHz (A* Low + A)

BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 2: 835 – 845 MHz (B)

BLOCK 4: 846.5 – 849 MHz (B*)

3.9 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

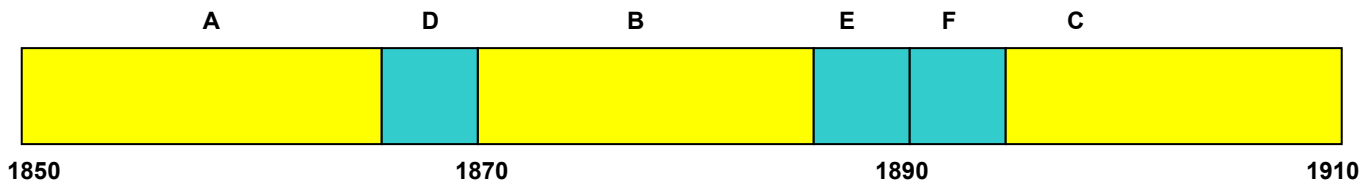
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

3.10 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)

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3.11 Radiated Spurious and Harmonic Emissions

§2.1053, 22.917(a), 24.238(a); RSS-129 (8.1.1), RSS-133 (6.5.1(i))

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. 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 R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

3.12 Frequency Stability / Temperature Variation

§2.1055, 22.355, 24.235; RSS-129 (9.2.1), RSS-133 (6.7(a,b))



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 and the individual oscillators is measured at room temperature (20°C to provide a reference).
2. The equipment is subjected to an overnight "soak" at -30°C without any power applied.
3. After the overnight "soak" at -30°C (usually 14-16 hours) 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 and the individual oscillators is made within one minute after applying power to the transmitter.
4. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. At least a period of 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 | 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 | 8901A | Modulation Analyzer | 06/18/07 | Annual | 06/18/08 | 2432A03467 |
| Agilent | E4407B | ESA Spectrum Analyzer | 03/13/08 | Annual | 03/13/09 | US39210313 |
| Agilent | E4432B | ESG-D Series Signal Generator | 08/08/06 | Biennial | 08/08/08 | US40053896 |
| 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 |
| Emco | 3816/2 | LISN | 8/9/06 | Biennial | 8/8/08 | 9707-1077 |
| Emco | 3816/2 | LISN | 8/9/06 | Biennial | 8/8/08 | 9707-1079 |
| Espec | ESX-2CA | Environmental Chamber | 3/12/08 | Annual | 3/12/09 | 017620 |
| Gigatronics | 80701A | (0.05-18GHz) Power Sensor | 6/20/07 | Annual | 6/19/08 | 1833460 |
| Gigatronics | 8651A | Universal Power Meter | 6/19/07 | Annual | 6/18/08 | 8650319 |
| K & L | 11SH10 | Band Pass Filter | N/A | Annual | N/A | 1300/4000 |
| K & L | 11SH10 | Band Pass Filter | N/A | Annual | N/A | 4000/12000 |
| 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 | 12/13/07 | Annual | 12/13/08 | 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: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 10 of 40 |

5.0 SAMPLE CALCULATIONS

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)

Emission Designator = 40K0F8W

Calculation: Voice + SAT

Modulation: Voice is 2.5 kHz and SAT is 6 kHz – Maximum modulation is $M = 6$ kHz

Deviation: Voice is 12 kHz and SAT is 2 kHz – Maximum deviation is $D = 12 + 2 = 14$ kHz

$B_n = 2M + 2DK$ with $K = 1$

$B_n = 40$ kHz

Calculation: Signaling Tone (ST) + SAT

Modulation: ST is 10 kHz and SAT is 6 kHz – Maximum modulation is $M = 10$ kHz

Deviation: ST is 8 kHz and SAT is 2 kHz – Maximum deviation is $D = 8 + 2 = 10$ kHz

$B_n = 2M + 2DK$ with $K = 1$

$B_n = 40$ kHz

Emission Designator = 40K0F1D

Calculation: Voice + SAT

Modulation: Wideband Data is 10 kHz and SAT is 6 kHz – Maximum modulation is $M = 10$ kHz

Deviation: Wideband Data is 8 kHz and SAT is 2 kHz – Maximum deviation is $D = 8 + 2 = 10$ kHz



$B_n = 2xM + 2xDK$ with $K = 1$

$B_n = 40$ kHz

Spurious Radiated Emission - PCS Band

Example: Channel 25 PCS Mode 2nd Harmonic (3702.50 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 3702.50 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: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 11 of 40 |



6.0 TEST RESULTS

6.1 Summary

Company Name: LG Electronics USA
 FCC ID: BEJLTGEN80L
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): AMPS / CDMA

| FCC Part Section(s) | RSS Section | Test Description | Test Limit | Test Condition | Test Result | Reference |
|-----------------------------------|--|--|---|----------------------------------|-------------|------------------------|
| TRANSMITTER MODE (TX) | | | | | | |
| 2.1049, 22.917(a), 24.238(a) | N/A | Occupied Bandwidth | N/A | CONDUCTED | PASS | Section 7.0 |
| 2.1051, 22.917(a), 24.238(a) | RSS-129 (8.1.1) RSS-133 (6.5.1) | Band Edge / Conducted Spurious Emissions | < 43 + 10log ₁₀ (P[Watts]) dB at Band Edge and for all out-of-band emissions | | PASS | Section 7.0 |
| 2.1046 | N/A | Transmitter Conducted Output Power | N/A | | PASS | Section 6.2 |
| 2.1047, TIA/EIA-553-A (2.1.4.1) | RSS-129 (6.3.2) | Sideband Power Attenuation (Analog) | Please refer to Section 3.4 of this report for test limits | | PASS | Section 7.0 |
| 2.1047, TIA/EIA-553-A (2.1.3.1.4) | N/A | Transmitter Audio Frequency Response | Response must comply with limits set in Table 6.1 (RSS-129) | | PASS | Section 7.0 |
| 2.1047, TIA/EIA-553-A (2.1.3.1.4) | RSS-129 (6.2) | Audio Low Pass Filter Frequency Response | Response must comply with limits set in Table 6.1 (RSS-129) | | PASS | Section 7.0 |
| 2.1047, TIA/EIA-553-A (2.1.3.1.3) | RSS-129 (6.1) | Modulation Limiting | ±12kHz from carrier frequency | | PASS | Section 7.0 |
| 22.913(a)(2) | RSS-129 (9.1) | Effective Radiated Power | < 7 Watts max. ERP (< 6.3 Watts max. ERP (IC)) | RADIATED | PASS | Section 6.3 |
| 24.232(c) | RSS-133 (6.4) [SRSP-510 (5.1.2)] | Equivalent Isotropic Radiated Power | < 2 Watts max. EIRP | | PASS | Section 6.4 |
| 2.1053, 22.917(a), 24.238(a) | RSS-129 (8.1.1) RSS-133 (6.5.1) | Undesirable Emissions | < 43 + 10log ₁₀ (P[Watts]) for all out-of-band emissions | | PASS | Sections 6.5, 6.6, 6.7 |
| RECEIVER MODE (RX) | | | | | | |
| 15.107 | RSS-Gen [7.2.2] | AC Conducted Emissions 150kHz – 30MHz | < FCC 15.207 limits or < RSS-Gen table 2 limits | LINE CONDUCTED | PASS | Pt. 15B Test Report |
| 15.109 | RSS-129 (10(a,d)) RSS-133 (6.7(a,b)) RSS-210 (7.3) | General Field Strength Limits (Restricted Bands and Radiated Emissions Limits) | < FCC 15.209 limits or < RSS-Gen limits [Section 6; Table 1] | RADIATED (30MHz-1GHz) (1-25 GHz) | PASS | Pt. 15B Test Report |

Table 6-1. Summary of Test Results

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 12 of 40 |

6.2 Conducted Output Power

§2.1046

This section contains conducted output power measurements for AMPS and CDMA (Cellular/PCS).

| Modulation | Channel | Conducted Power |
|----------------------|---------|-----------------|
| | | [dBm] |
| Frequency Modulation | 991 | 28.6 |
| | 384 | 28.8 |
| | 799 | 28.9 |

Table 6-1. Maximum AMPS Conducted Power Output Table for GEN8.0L

| Band | Channel | TDSO SO32 [dBm] |
|----------|---------|-----------------|
| | | RC3 |
| Cellular | 1013 | 24.67 |
| | 384 | 24.51 |
| | 777 | 24.80 |
| PCS | 25 | 24.60 |
| | 600 | 24.52 |
| | 1175 | 24.90 |

Table 6-2. Maximum CDMA Conducted Power Output Table for GEN8.0L

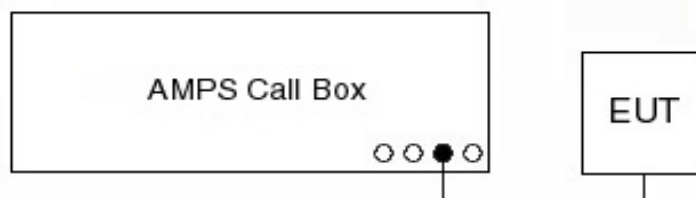


Figure 6-1. AMPS Conducted Power Measurement Setup

6.3 Effective Radiated Power Output Data

§22.913(a)(2); RSS-129 (9.1)

POWER: High (Analog (AMPS) Mode)

| Frequency [MHz] | Measured Level [dBm] | Substitute Level [dBm] | Antenna Gain [dBd] | Pol [H/V] | ERP [dBm] | ERP [Watts] | Battery Type |
|-----------------|----------------------|------------------------|--------------------|-----------|-----------|-------------|-----------------|
| 824.04 | -7.960 | 27.47 | 0.00 | H | 27.47 | 0.558 | DC Power Supply |
| 836.52 | -8.980 | 26.45 | 0.00 | H | 26.45 | 0.442 | DC Power Supply |
| 848.97 | -9.960 | 25.47 | 0.00 | H | 25.47 | 0.352 | DC Power Supply |

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

POWER: "All Up" Power Bits (CDMA Mode)

| Frequency [MHz] | Measured Level [dBm] | Substitute Level [dBm] | Antenna Gain [dBd] | Pol [H/V] | ERP [dBm] | ERP [Watts] | Battery Type |
|-----------------|----------------------|------------------------|--------------------|-----------|-----------|-------------|-----------------|
| 824.70 | -9.000 | 26.43 | 0.00 | H | 26.43 | 0.440 | DC Power Supply |
| 836.52 | -9.200 | 26.23 | 0.00 | H | 26.23 | 0.420 | DC Power Supply |
| 848.31 | -11.000 | 24.43 | 0.00 | H | 24.43 | 0.277 | DC Power Supply |



Table 6-4. Effective 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 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 R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 14 of 40 |

6.4 Equivalent Isotropic Radiated Power Output Data

§24.232(c); RSS-133 (6.4) [SRSP-510 (5.1.2)]

POWER: "All Up" Power 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 | -17.300 | 18.57 | 8.00 | V | 26.57 | 0.454 | DC Power Supply |
| 1880.00 | -17.530 | 18.34 | 8.00 | V | 26.34 | 0.431 | DC Power Supply |
| 1908.75 | -18.490 | 17.38 | 8.00 | V | 25.38 | 0.345 | DC Power Supply |



Table 6-5. Equivalent Isotropic Radiated Power Output Data

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 R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 15 of 40 |

6.5 AMPS Radiated Measurements

§2.1053, 22.917(a): RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.04 MHz
 CHANNEL: 991
 MEASURED OUTPUT POWER: 27.470 dBm = 0.558 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 40.47 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 1648.08 | -45.98 | 6.32 | -39.66 | H | 67.1 |
| 2472.12 | -75.12 | 7.69 | -67.43 | H | 94.9 |
| 3296.16 | -79.86 | 7.83 | -72.03 | H | 99.5 |
| 4120.20 | -92.99 | 7.84 | -85.15 | H | 112.6 |
| 4944.24 | -61.45 | 8.62 | -52.83 | H | 80.3 |



Table 6-6. Radiated Spurious Data (AMPS Mode – Ch. 991)

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 R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 16 of 40 |

AMPS Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.52 MHz
 CHANNEL: 384
 MEASURED OUTPUT POWER: 27.470 dBm = 0.558 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 40.47 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 1673.04 | -46.80 | 6.33 | -40.48 | H | 67.9 |
| 2509.56 | -54.99 | 7.75 | -47.25 | H | 74.7 |
| 3346.08 | -95.50 | 7.86 | -87.64 | H | 115.1 |
| 4182.60 | -60.62 | 8.07 | -52.55 | H | 80.0 |
| 5019.12 | -60.74 | 8.55 | -52.20 | H | 79.7 |



Table 6-7. Radiated Spurious Data (AMPS 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 was tested under all R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 17 of 40 |

AMPS Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.97 MHz
 CHANNEL: 799
 MEASURED OUTPUT POWER: 27.470 dBm = 0.558 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 40.47 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 1697.94 | -54.42 | 6.34 | -48.09 | H | 75.6 |
| 2546.91 | -49.94 | 7.74 | -42.20 | H | 69.7 |
| 3395.88 | -54.58 | 7.89 | -46.69 | H | 74.2 |
| 4244.85 | -65.26 | 8.30 | -56.96 | H | 84.4 |
| 5093.82 | -65.42 | 8.53 | -56.89 | H | 84.4 |



Table 6-8. Radiated Spurious Data (AMPS Mode – Ch. 799)

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 R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 18 of 40 |

6.6 Cellular CDMA Radiated Measurements

§2.1053, 22.917(a): RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 1013
 MEASURED OUTPUT POWER: 26.430 dBm = 0.440 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.43 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 1649.40 | -55.18 | 6.32 | -48.86 | H | 75.3 |
| 2474.10 | -55.72 | 7.69 | -48.03 | H | 74.5 |
| 3298.80 | -95.63 | 7.83 | -87.80 | H | 114.2 |
| 4123.50 | -92.99 | 7.84 | -85.15 | H | 111.6 |
| 4948.20 | -91.59 | 8.62 | -82.97 | H | 109.4 |



Table 6-9. 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 was tested under all R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 19 of 40 |

Cellular CDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.52 MHz
 CHANNEL: 384
 MEASURED OUTPUT POWER: 26.430 dBm = 0.440 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.43 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 1673.04 | -49.36 | 6.33 | -43.04 | H | 69.5 |
| 2509.56 | -56.99 | 7.75 | -49.25 | H | 75.7 |
| 3346.08 | -95.50 | 7.86 | -87.64 | H | 114.1 |
| 4182.60 | -93.05 | 8.07 | -84.98 | H | 111.4 |
| 5019.12 | -91.32 | 8.55 | -82.78 | H | 109.2 |



Table 6-10. 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 was tested under all R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 20 of 40 |

Cellular CDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.31 MHz
 CHANNEL: 777
 MEASURED OUTPUT POWER: 26.430 dBm = 0.440 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.43 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 1696.62 | -46.73 | 6.34 | -40.39 | H | 66.8 |
| 2544.93 | -56.74 | 7.74 | -49.00 | H | 75.4 |
| 3393.24 | -95.38 | 7.89 | -87.49 | H | 113.9 |
| 4241.55 | -93.11 | 8.30 | -84.81 | H | 111.2 |
| 5089.86 | -91.05 | 8.53 | -82.52 | H | 108.9 |



Table 6-11. 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 was tested under all R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 21 of 40 |

6.7 PCS CDMA Radiated Measurements

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1851.25 MHz
 CHANNEL: 25
 MEASURED OUTPUT POWER: 26.570 dBm = 0.454 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.57 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 3702.50 | -29.70 | 9.85 | -19.85 | H | 46.4 |
| 5553.75 | -47.49 | 10.72 | -36.77 | H | 63.3 |
| 7405.00 | -88.04 | 11.61 | -76.43 | H | 103.0 |
| 9256.25 | -83.94 | 11.36 | -72.57 | H | 99.1 |
| 11107.50 | -82.56 | 12.73 | -69.83 | H | 96.4 |



Table 6-12. 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 was tested under all R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 22 of 40 |

PCS CDMA Radiated Measurements (Cont'd)

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 600
 MEASURED OUTPUT POWER: 26.570 dBm = 0.454 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.57 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 3760.00 | -31.72 | 9.78 | -21.94 | V | 48.5 |
| 5640.00 | -48.32 | 10.92 | -37.40 | V | 64.0 |
| 7520.00 | -87.80 | 11.66 | -76.14 | V | 102.7 |
| 9400.00 | -84.29 | 11.56 | -72.72 | V | 99.3 |
| 11280.00 | -81.83 | 12.63 | -69.20 | V | 95.8 |



Table 6-13. 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 was tested under all R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 23 of 40 |

PCS CDMA Radiated Measurements (Cont'd)

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1908.75 MHz
 CHANNEL: 1175
 MEASURED OUTPUT POWER: 26.570 dBm = 0.454 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.57 dBc

| FREQ. (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|----------------|--|--|--|--------------|-------|
| 3817.50 | -36.65 | 9.71 | -26.94 | V | 53.5 |
| 5726.25 | -48.85 | 11.11 | -37.74 | V | 64.3 |
| 7635.00 | -87.24 | 11.45 | -75.79 | V | 102.4 |
| 9543.75 | -84.47 | 11.73 | -72.74 | V | 99.3 |
| 11452.50 | -81.10 | 12.53 | -68.57 | V | 95.1 |



Table 6-14. Radiated Spurious Data (PCS CDMA Mode – Ch. 1175)

NOTES:

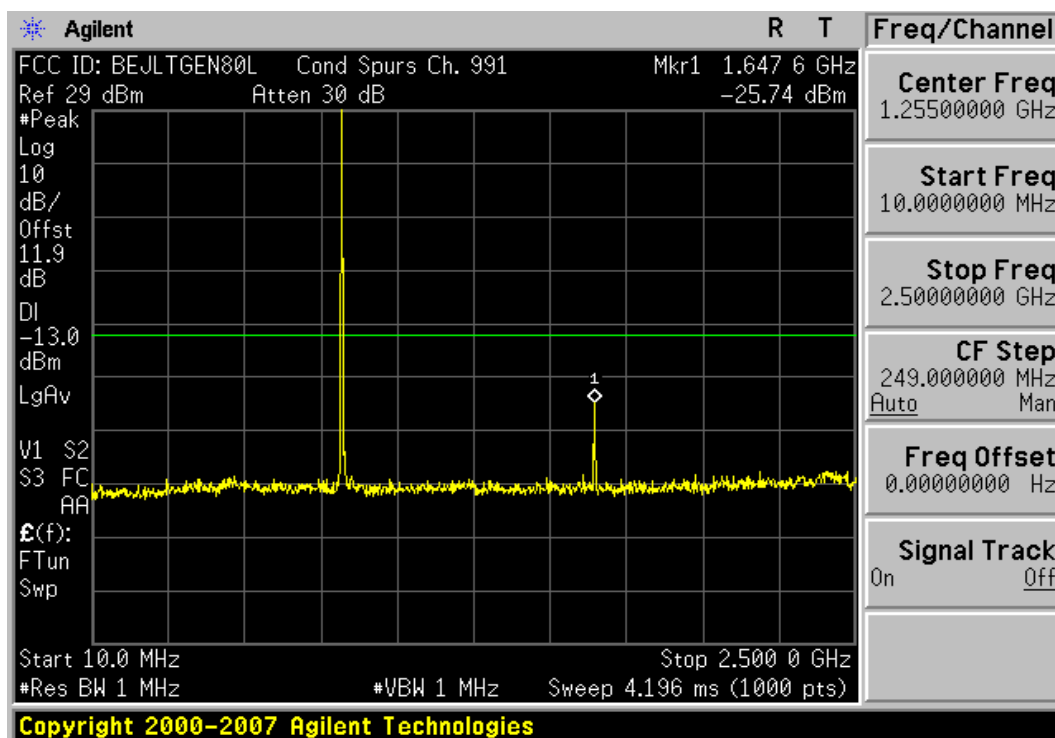
Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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.

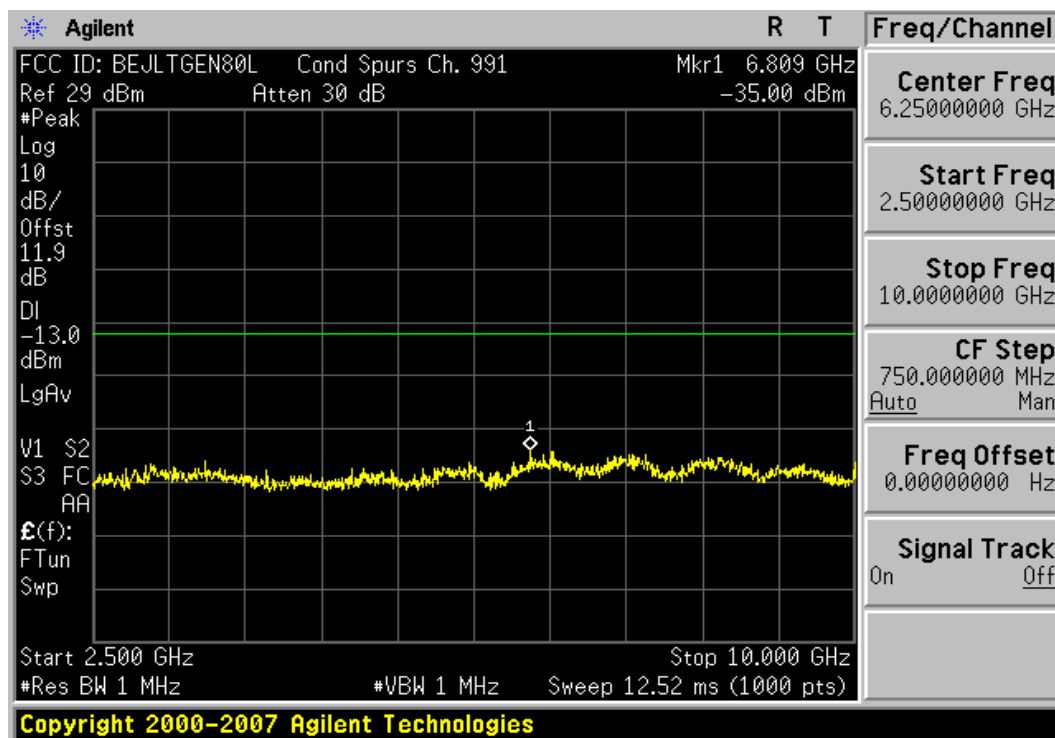
This device was tested under all R.C.s and S.O.s and the highest power is reported with RC3/SO55 with "All Up" power control bits.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
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| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 24 of 40 |

7.0 PLOTS OF EMISSIONS

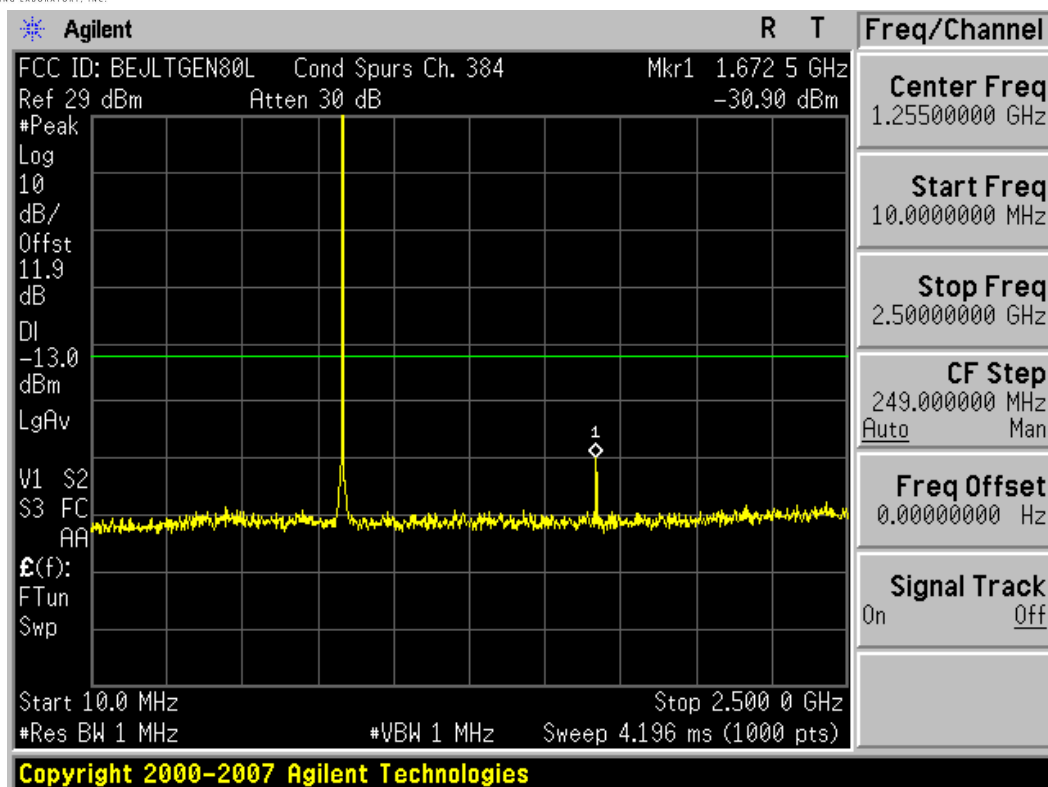


Plot 7-1. Conducted Spurious Plot (AMPS Mode – Ch. 991)

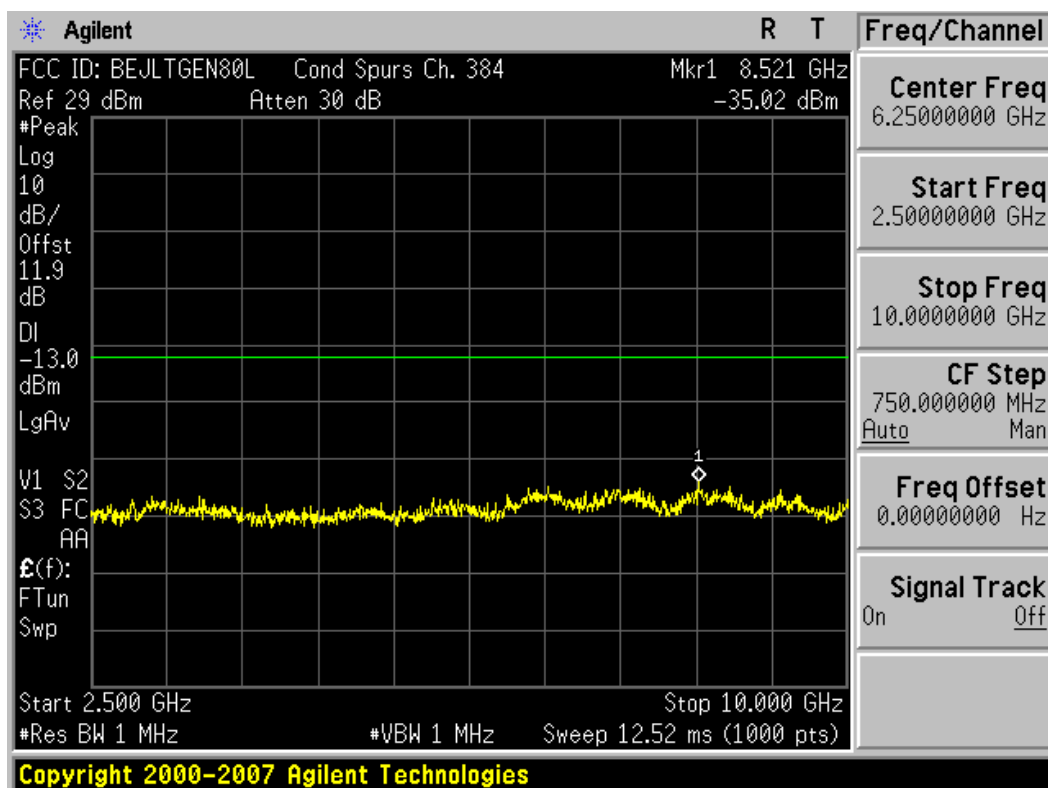


Plot 7-2. Conducted Spurious Plot (AMPS Mode – Ch. 991)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 25 of 40 |

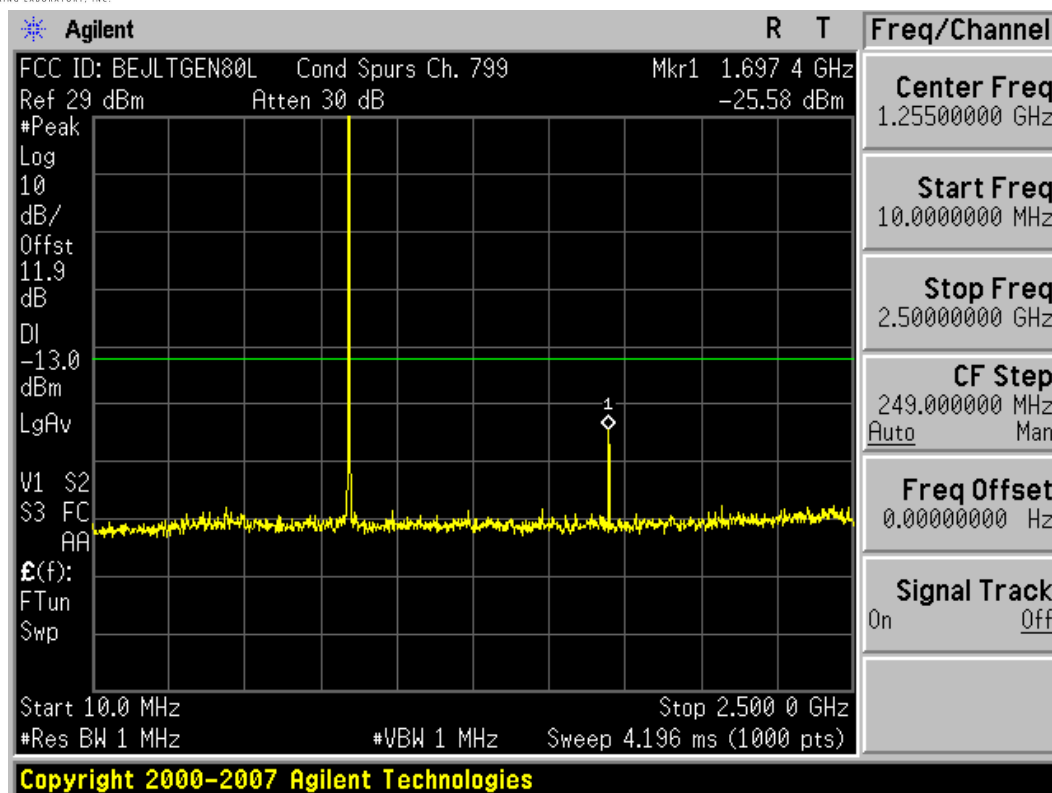


Plot 7-3. Conducted Spurious Plot (AMPS Mode – Ch. 384)

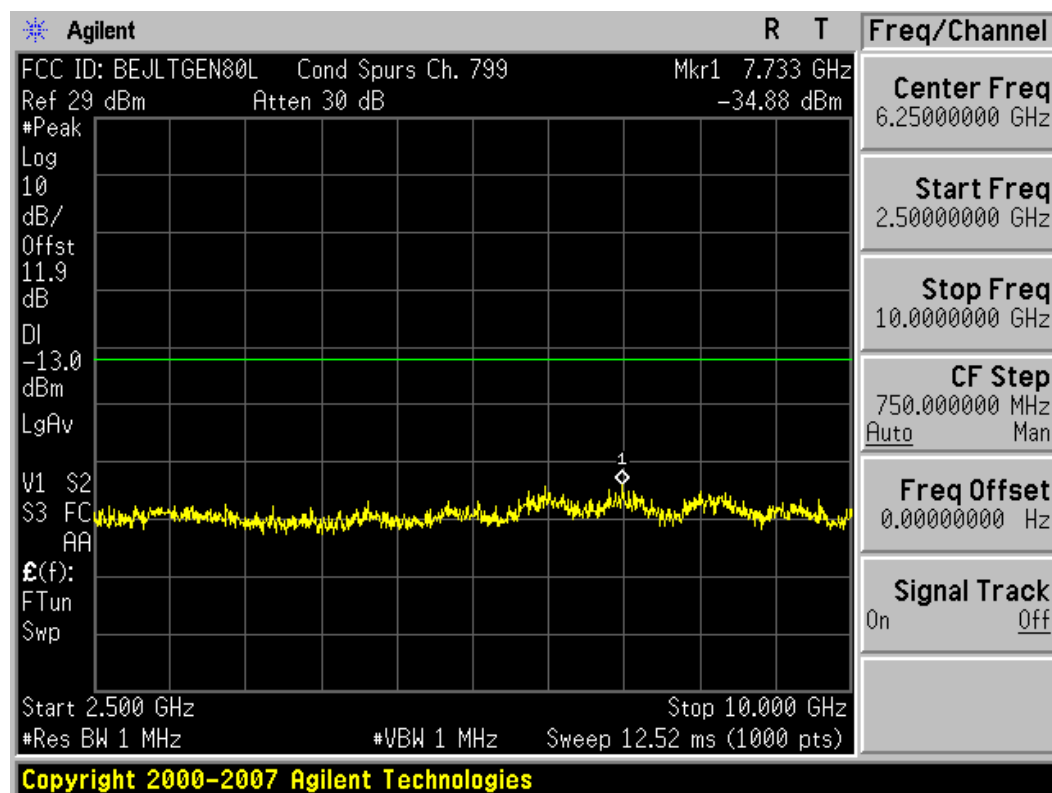


Plot 7-4. Conducted Spurious Plot (AMPS Mode – Ch. 384)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 26 of 40 |

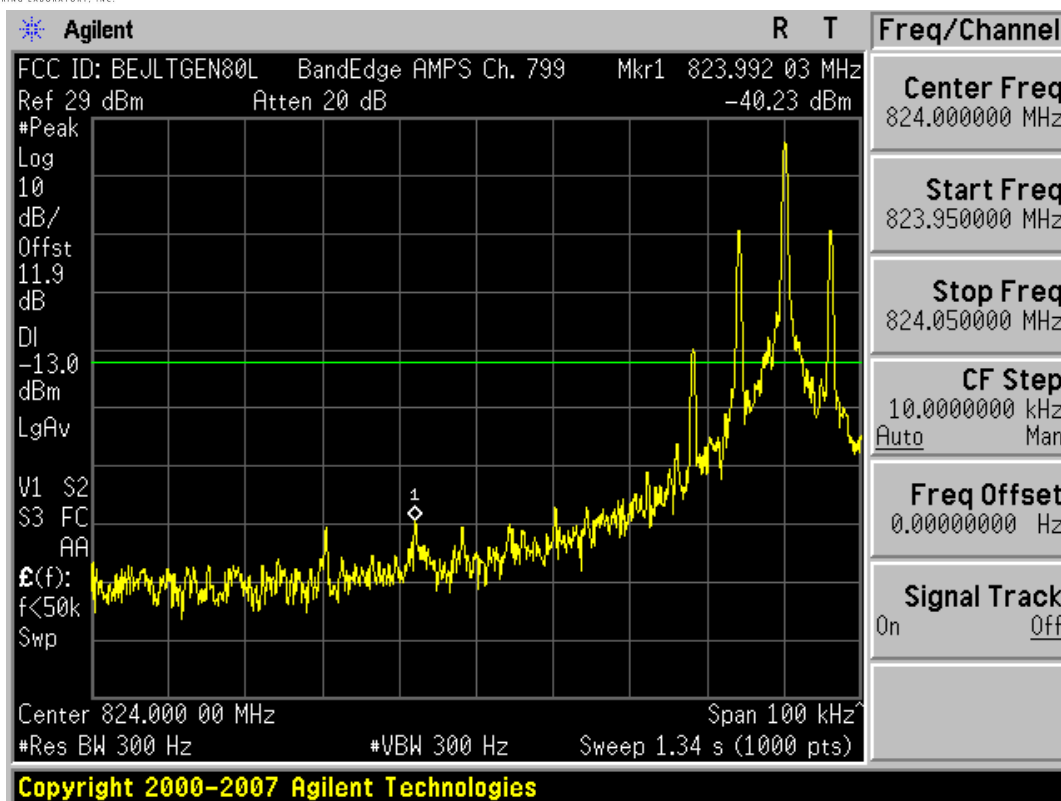


Plot 7-5. Conducted Spurious Plot (AMPS Mode – Ch. 799)

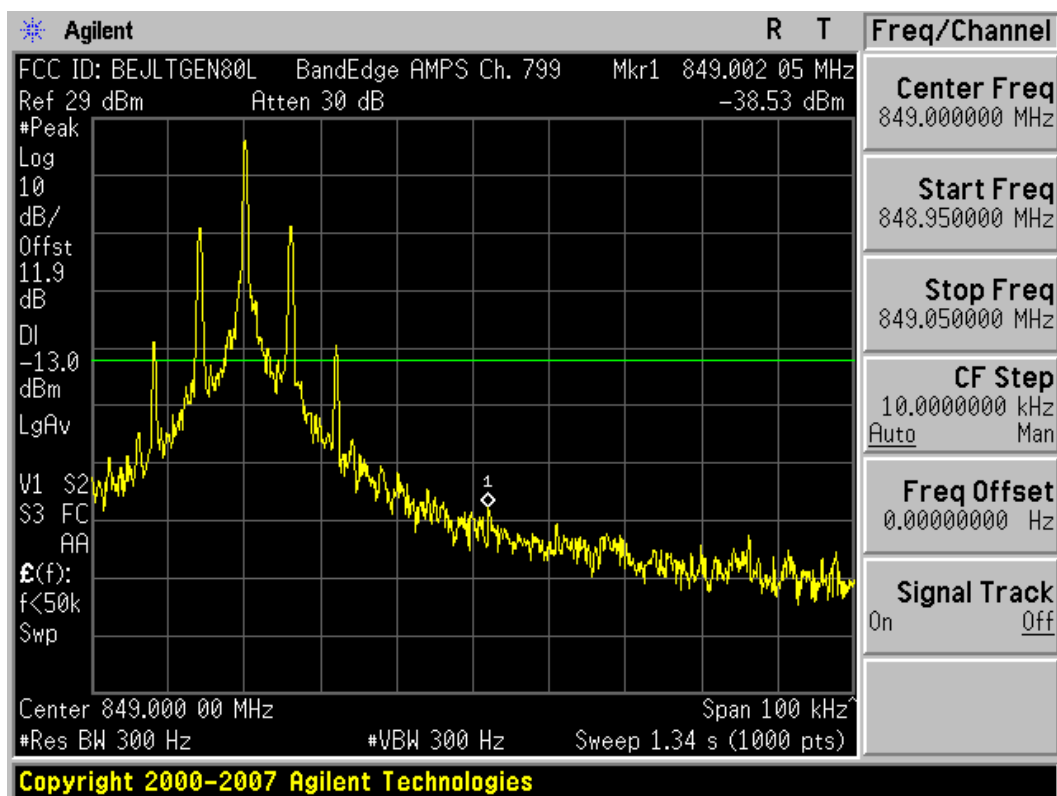


Plot 7-6. Conducted Spurious Plot (AMPS Mode – Ch. 799)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 27 of 40 |

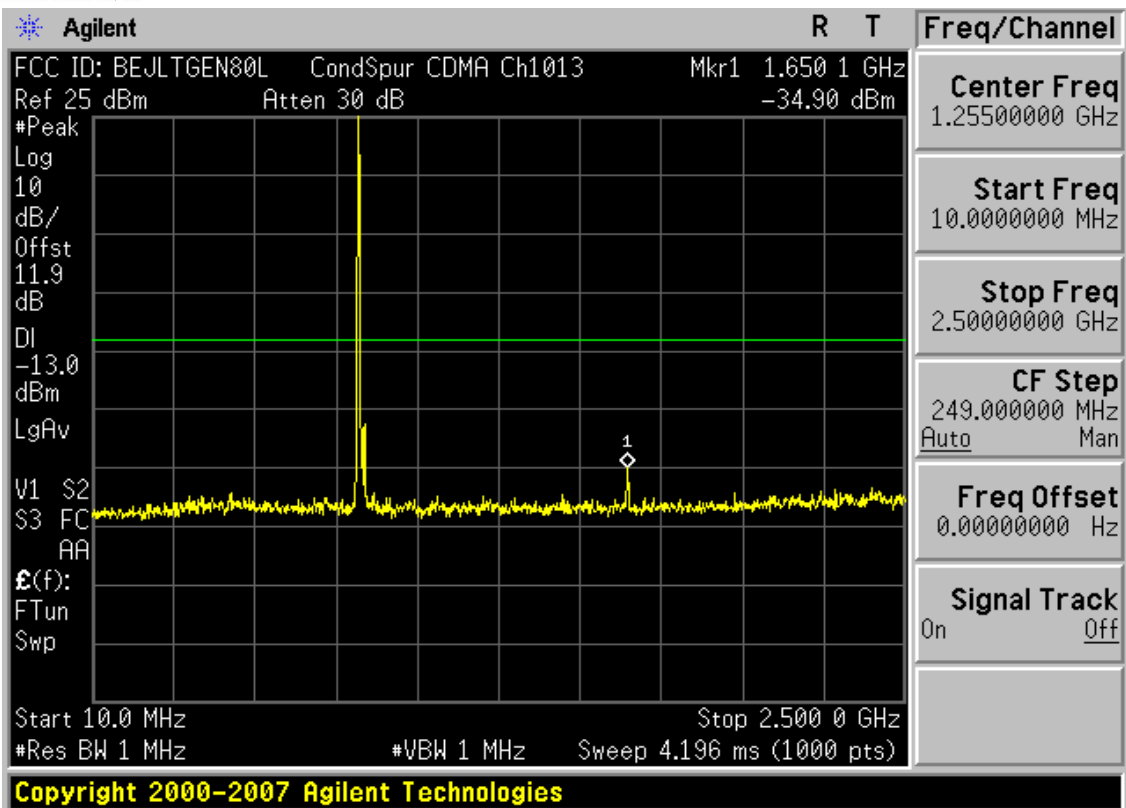


Plot 7-7. Band Edge Plot (AMPS Mode – Ch. 991)

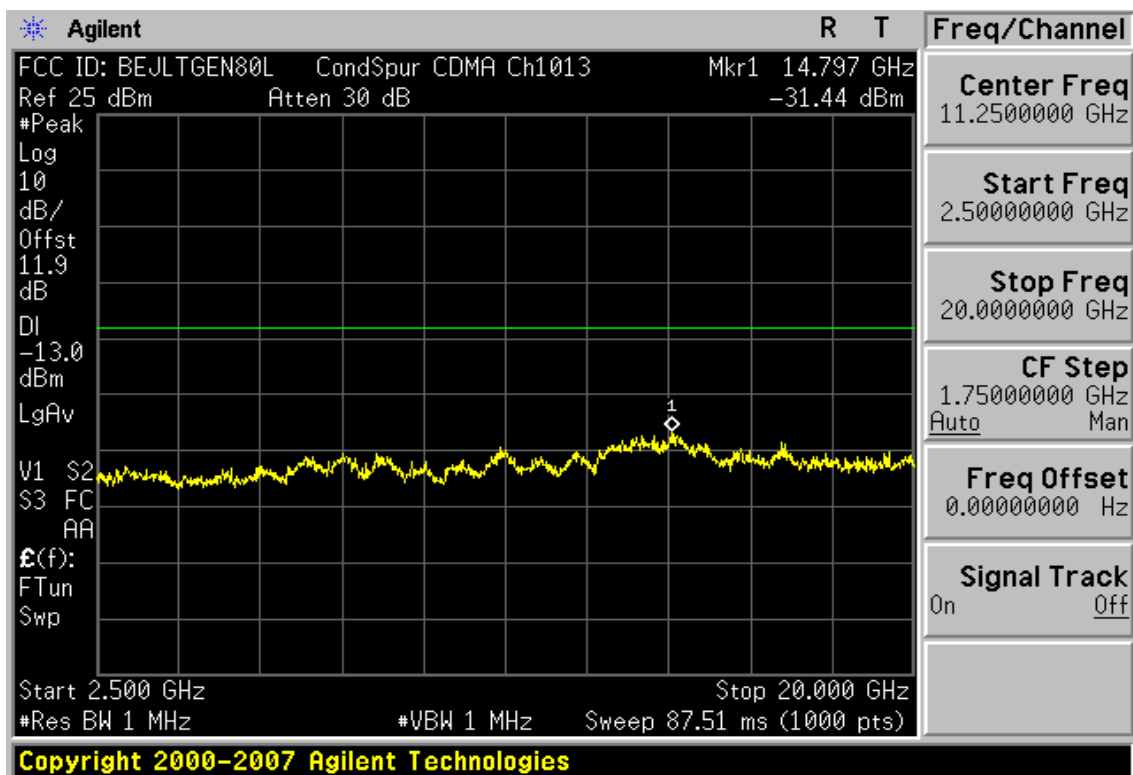


Plot 7-8. Band Edge Plot (AMPS Mode – Ch. 799)

| | | | | |
|------------------------------------|---|--|----|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 28 of 40 |

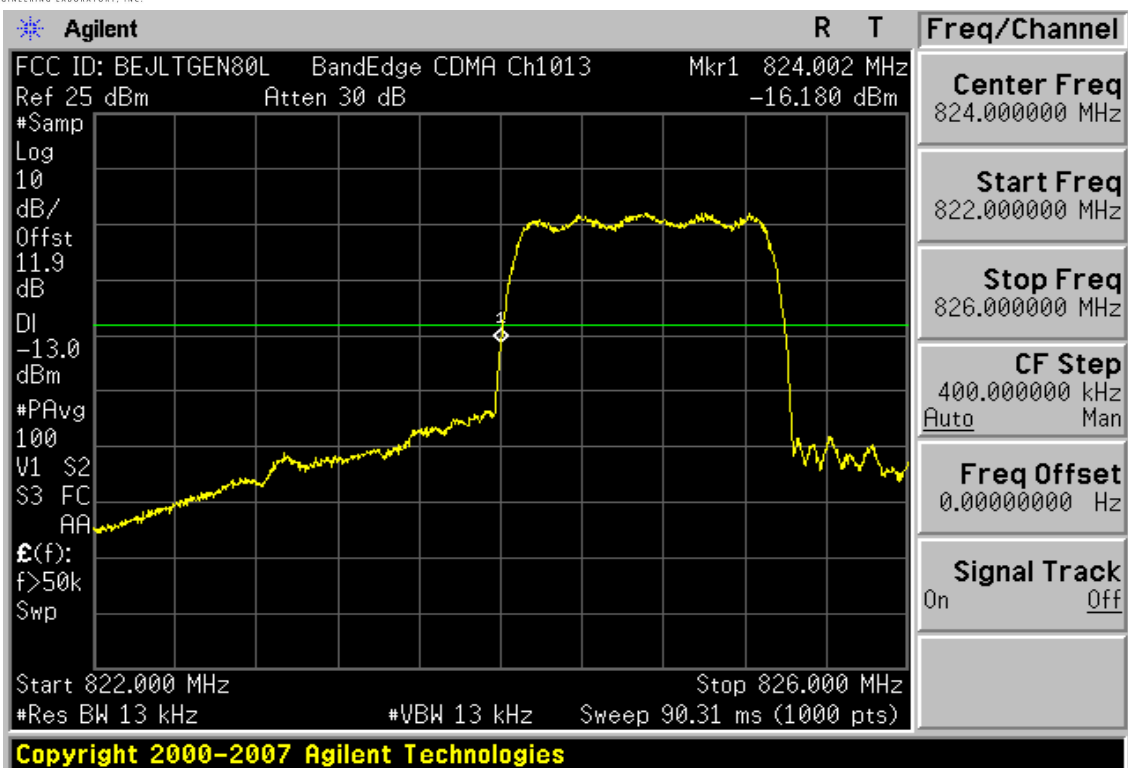


Plot 7-9. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)

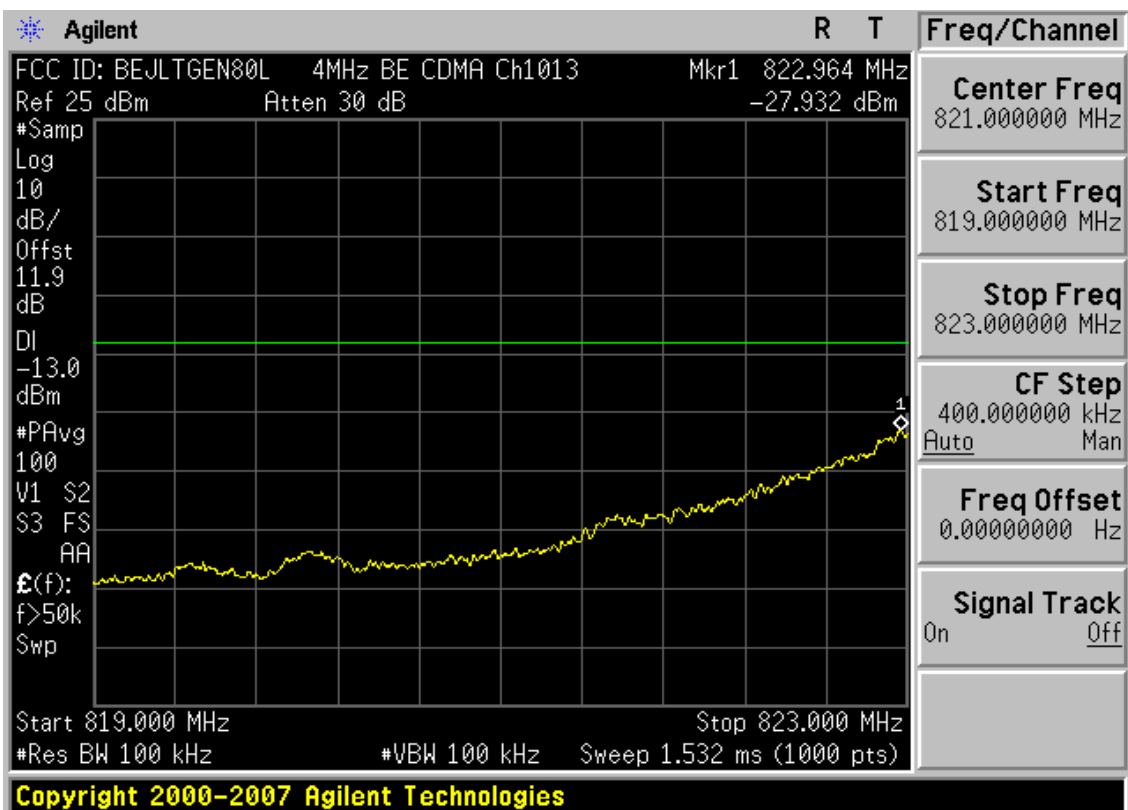


Plot 7-10. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 29 of 40 |

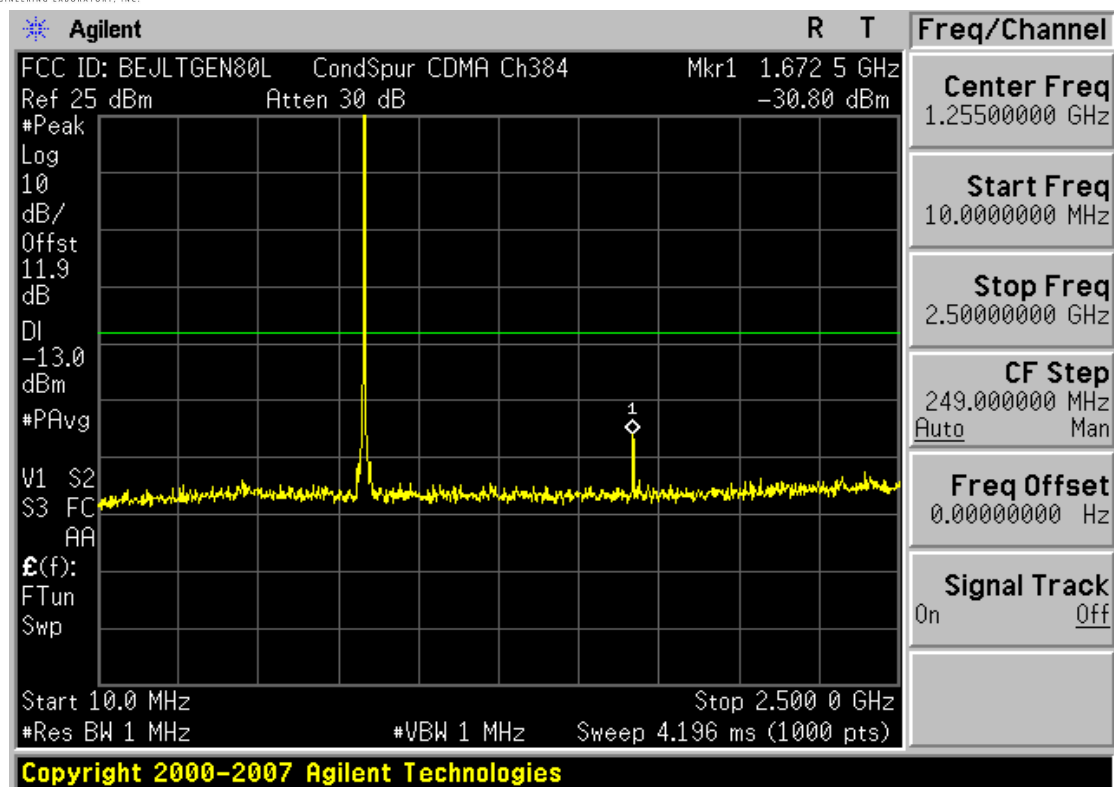


Plot 7-11. Band Edge Plot (Cellular CDMA Mode – Ch. 1013)

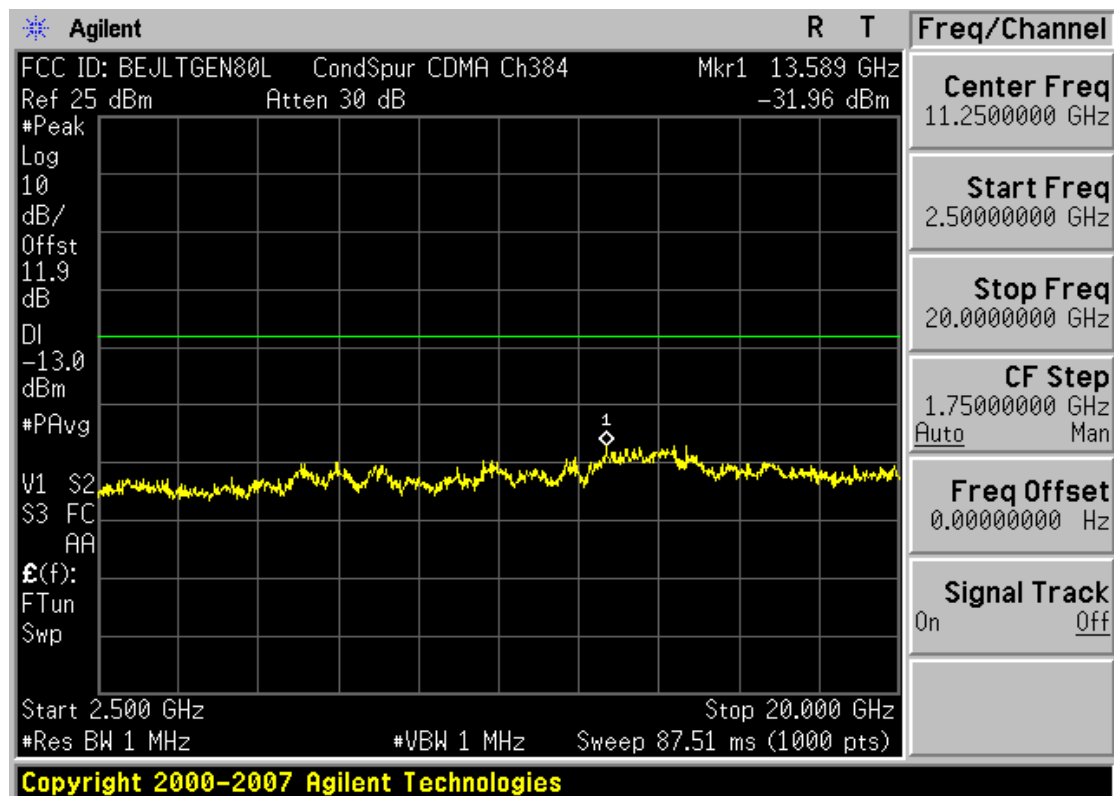


Plot 7-12. 4MHz Span Plot (Cellular CDMA Mode – Ch. 1013)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 30 of 40 |

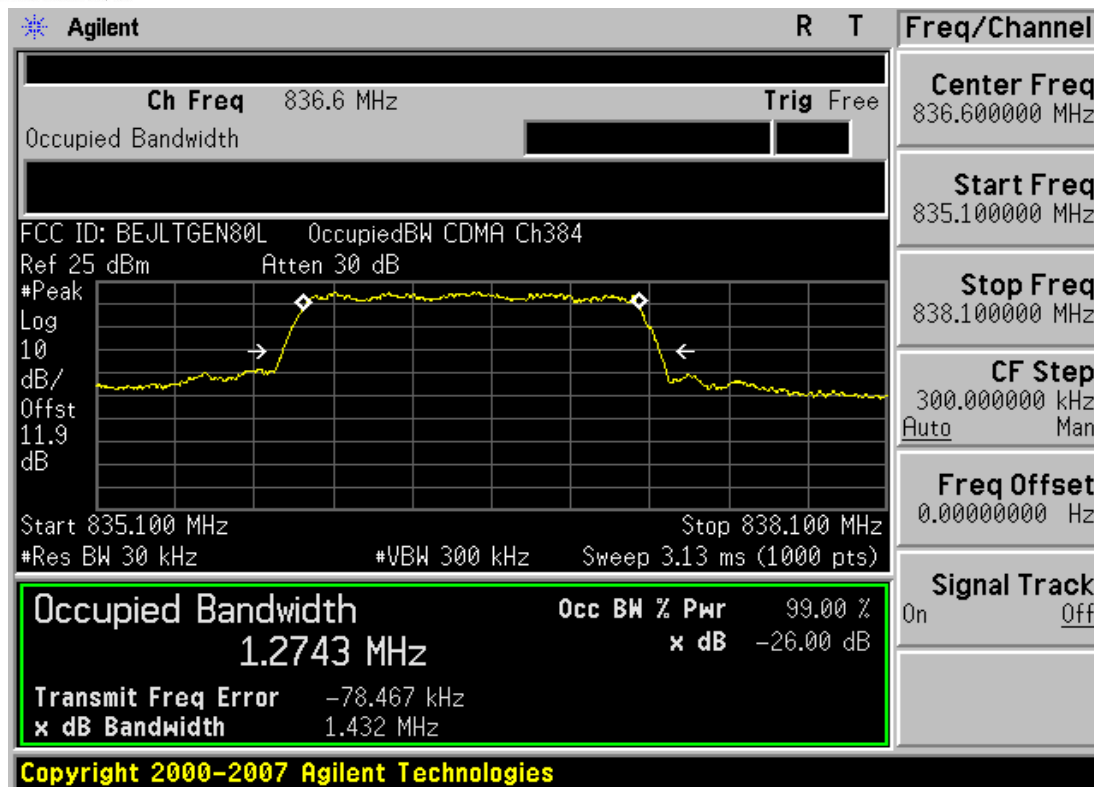


Plot 7-13. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

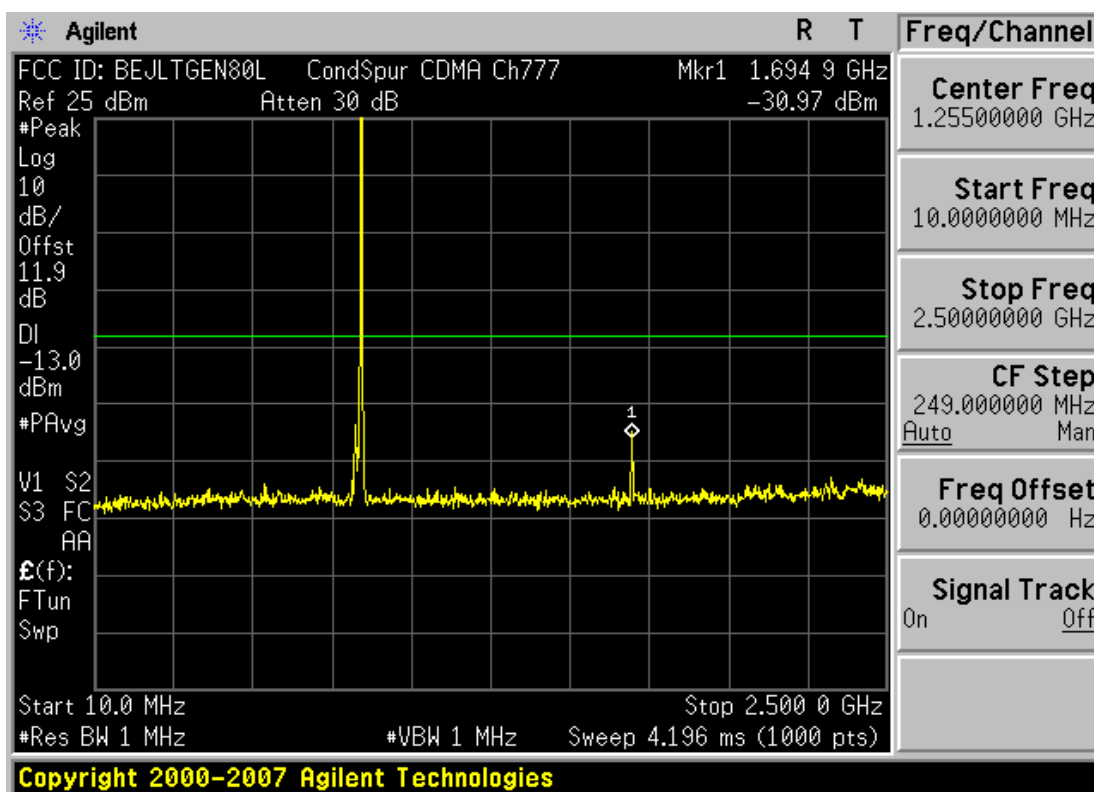


Plot 7-14. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 31 of 40 |

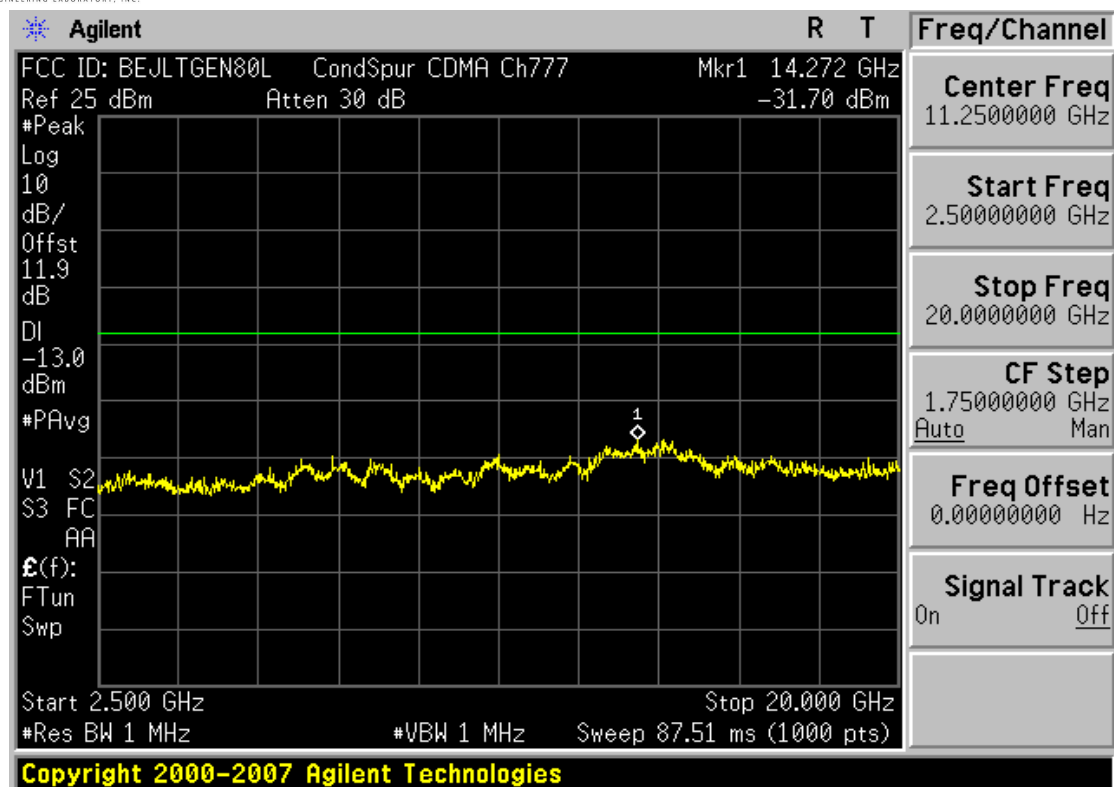


Plot 7-15. Occupied Bandwidth Plot (Cellular CDMA Mode – Ch. 384)

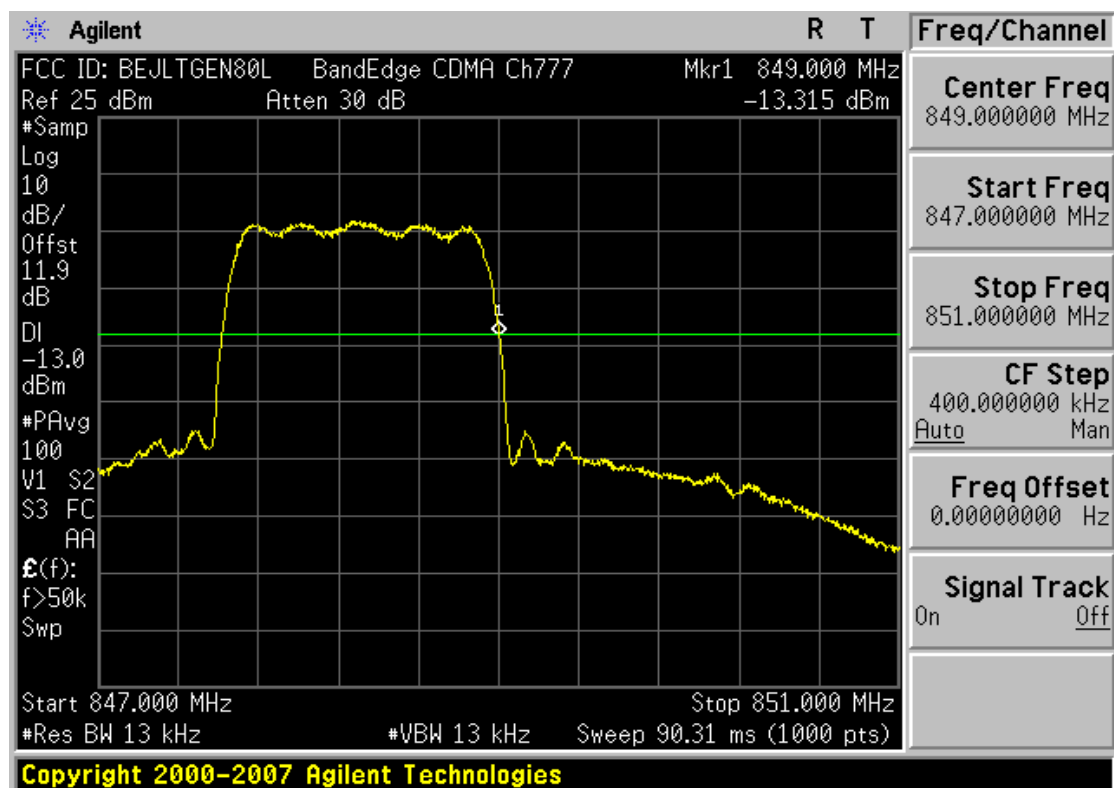


Plot 7-16. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 32 of 40 |

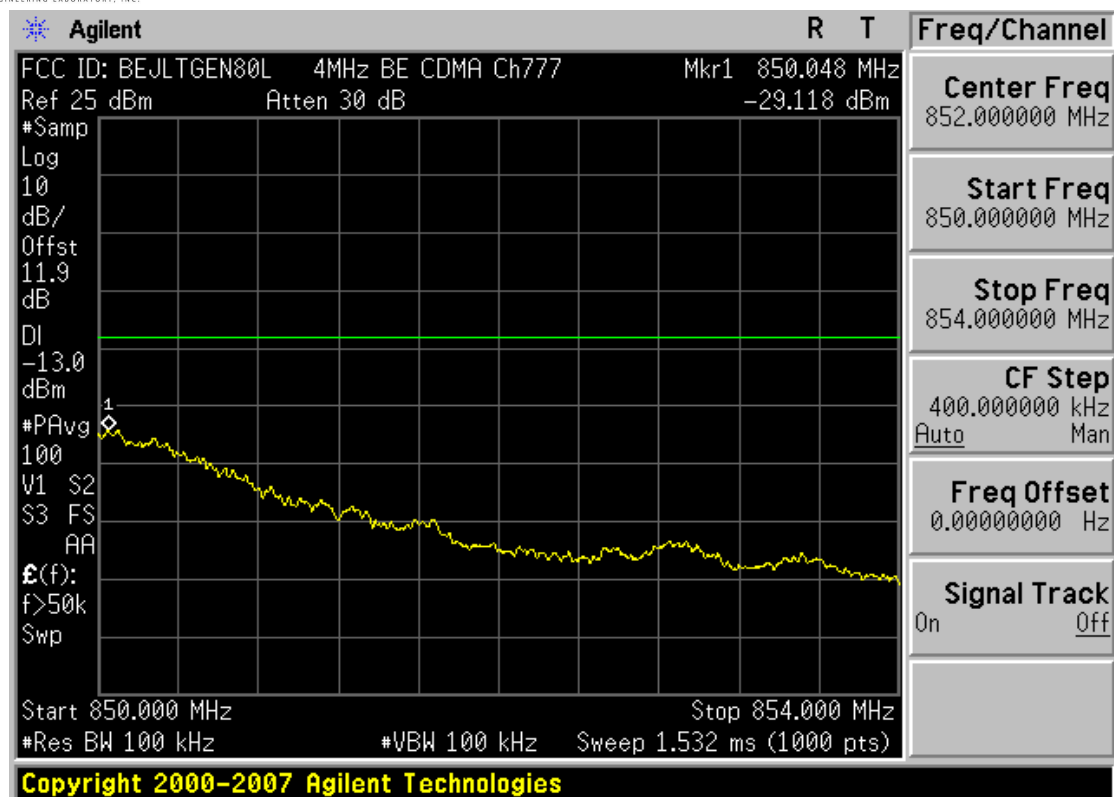


Plot 7-17. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

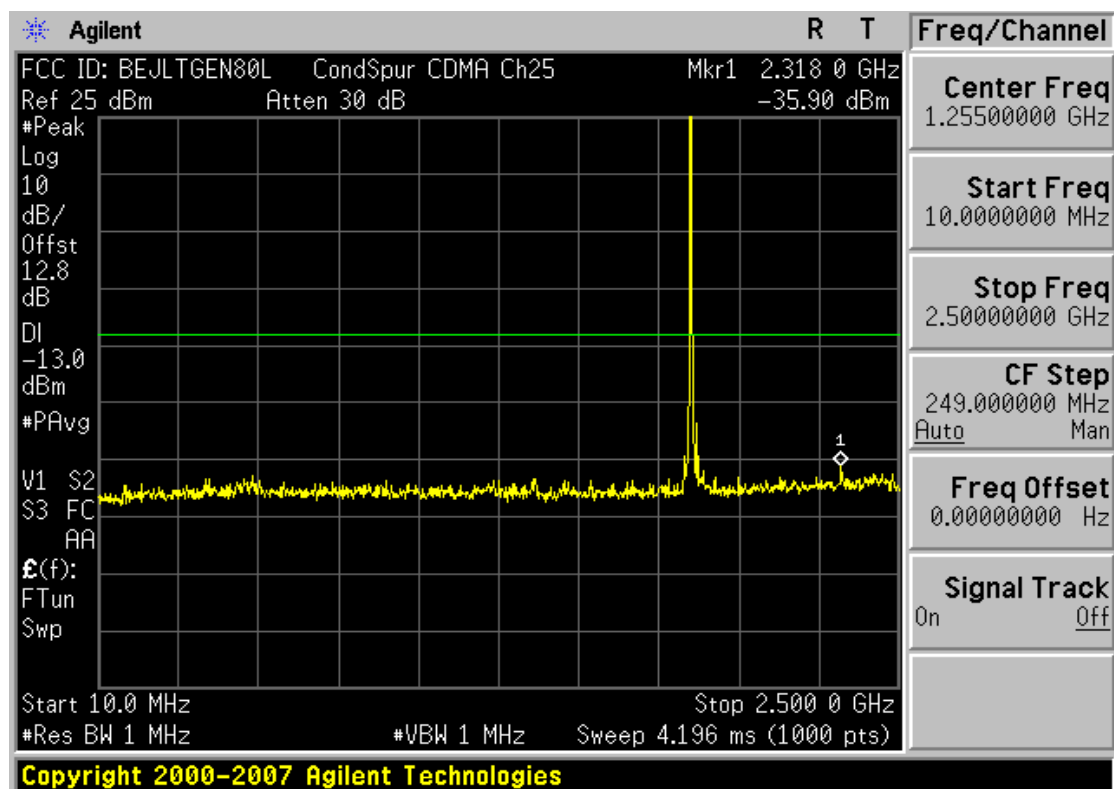


Plot 7-18. Band Edge Plot (Cellular CDMA Mode – Ch. 777)

| | | | | |
|------------------------------------|---|--|----|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 33 of 40 |

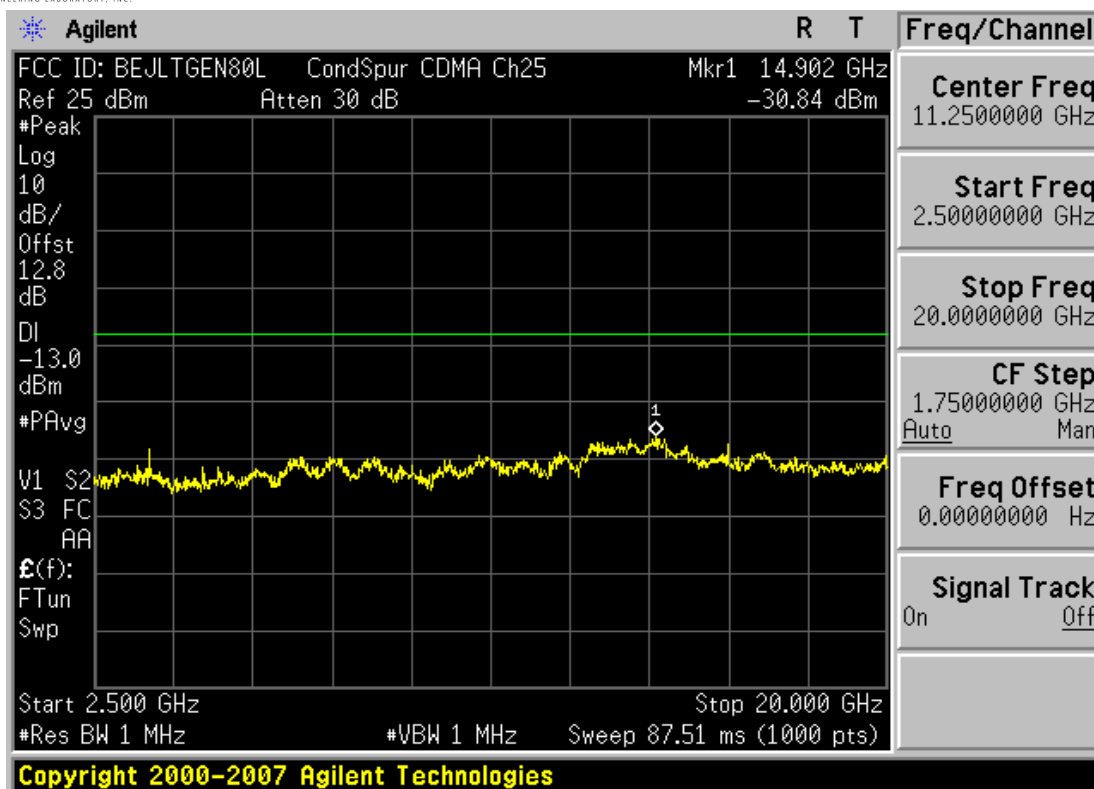


Plot 7-19. 4MHz Span Plot (Cellular CDMA Mode – Ch. 777)

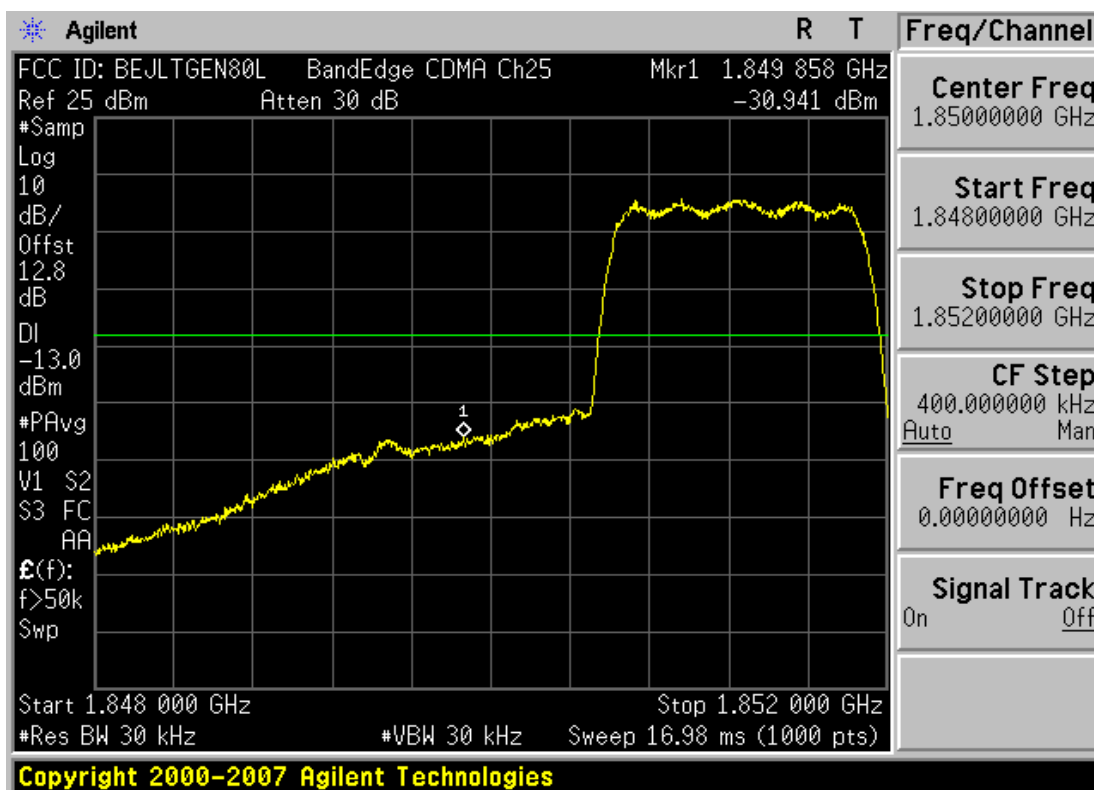


Plot 7-20. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 34 of 40 |

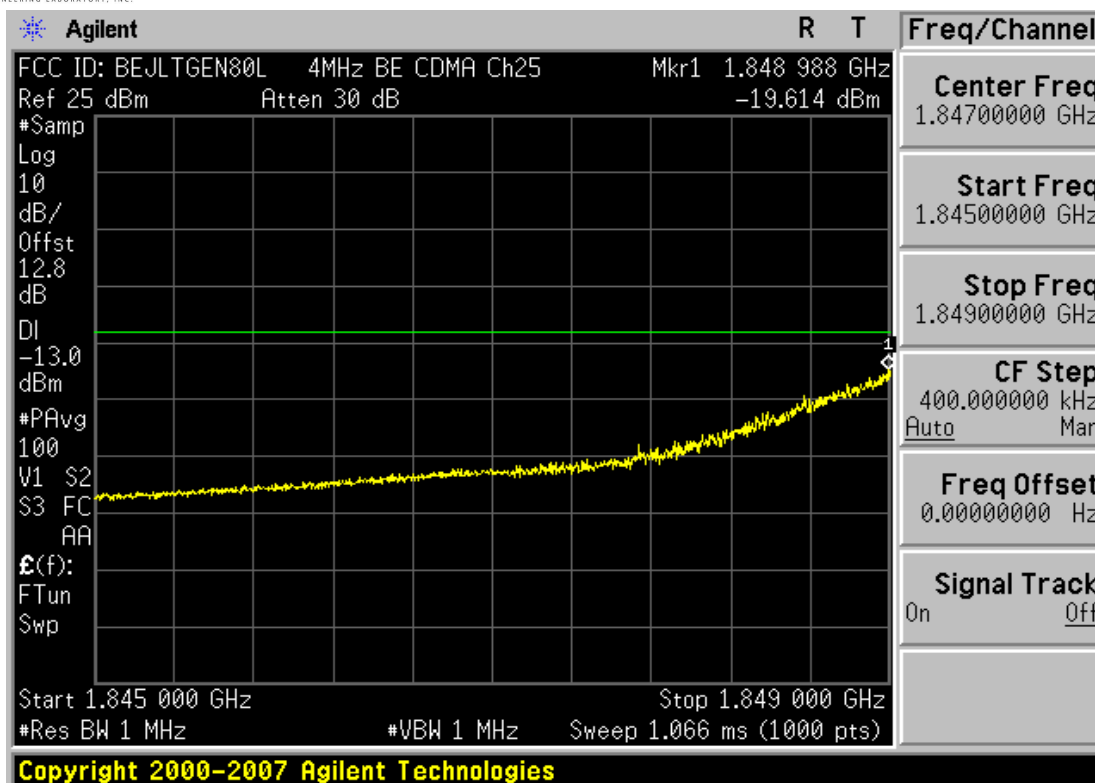


Plot 7-21. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)

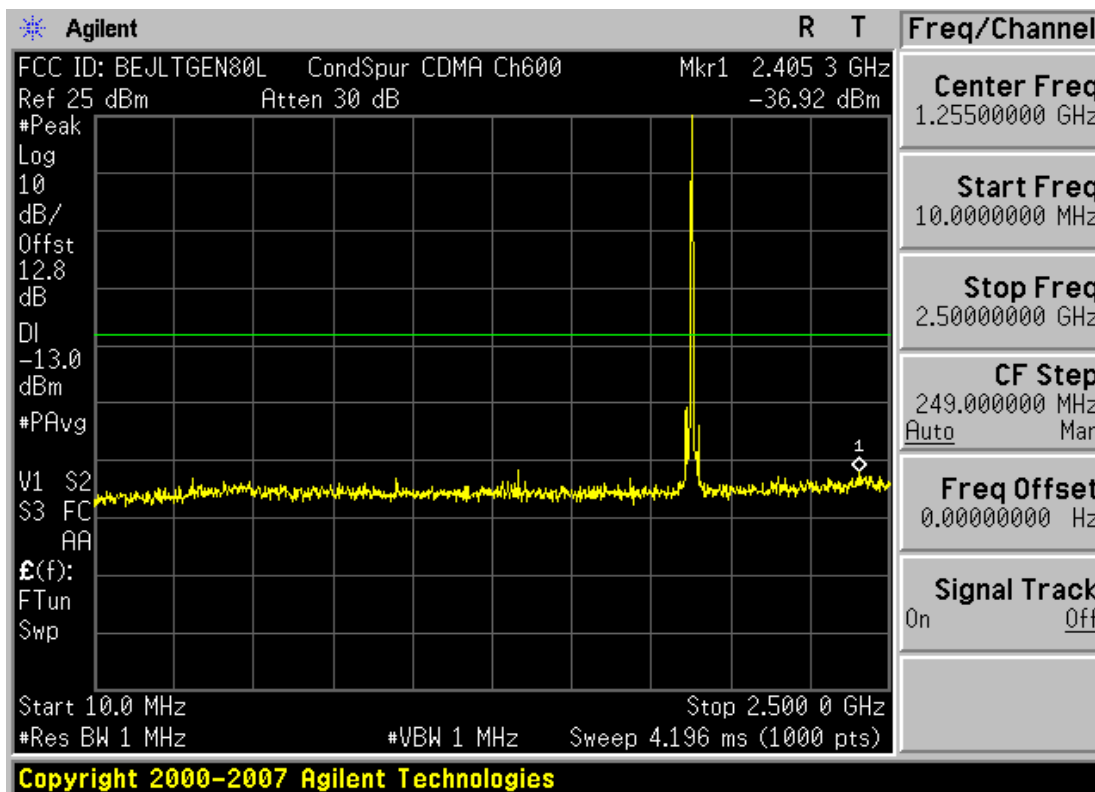


Plot 7-22. Band Edge Plot (PCS CDMA Mode – Ch. 25)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 35 of 40 |

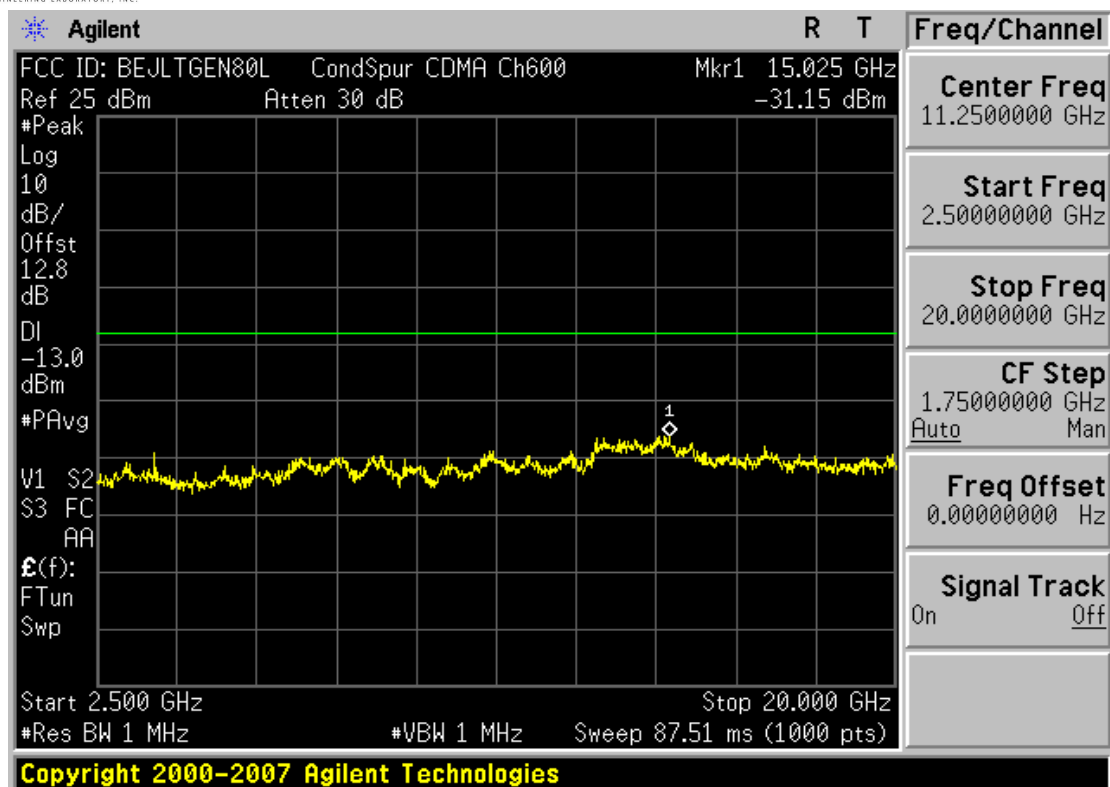


Plot 7-23. 4MHz Span Plot (PCS CDMA Mode – Ch. 25)

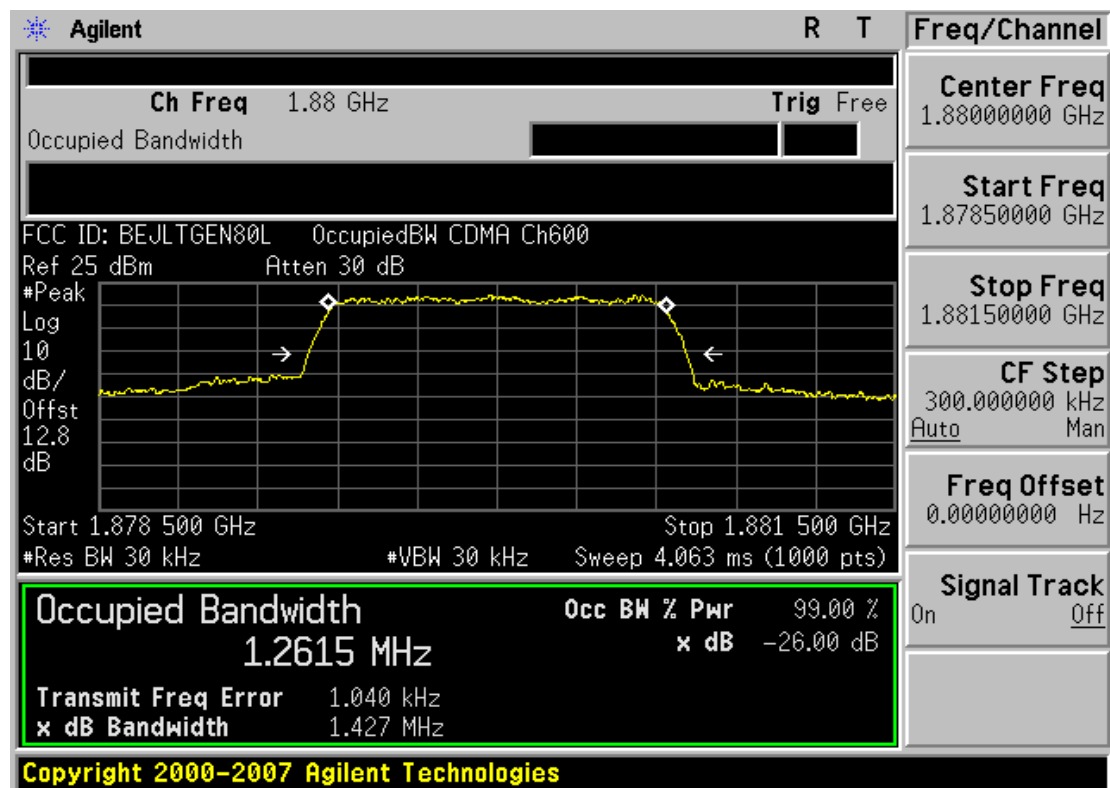


Plot 7-24. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 36 of 40 |

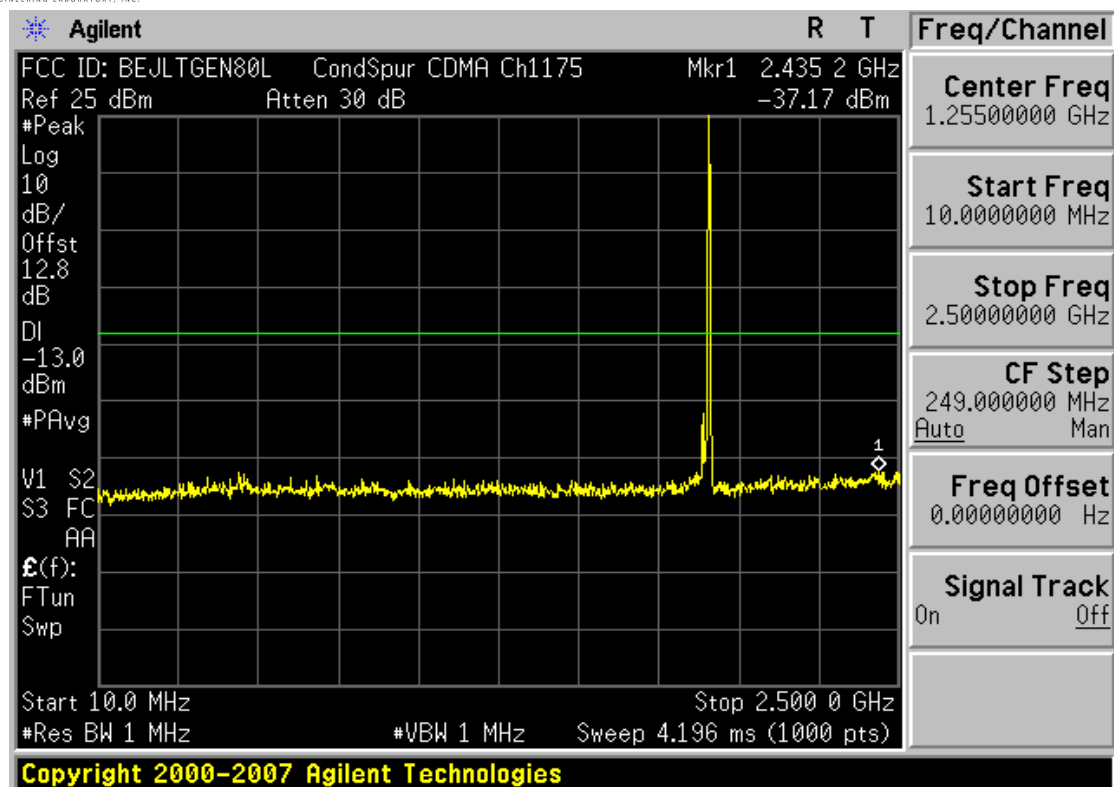


Plot 7-25. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

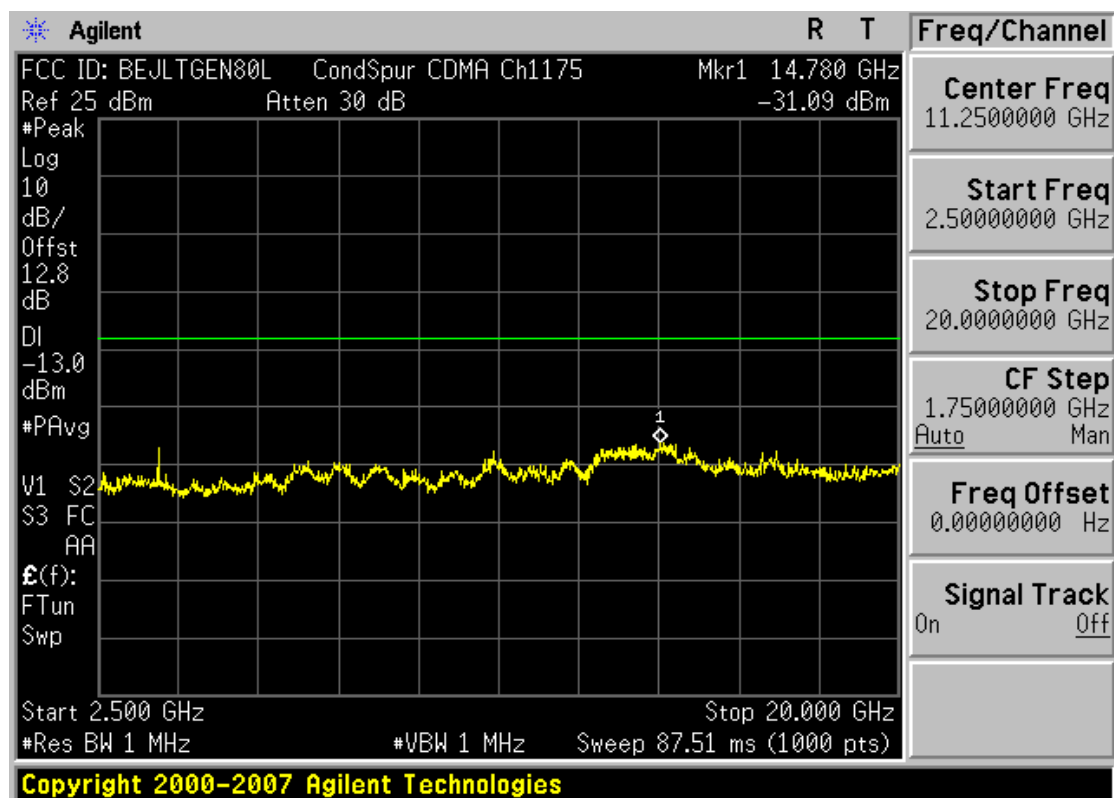


Plot 7-26. Occupied Bandwidth Plot (PCS CDMA Mode – Ch. 600)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 37 of 40 |

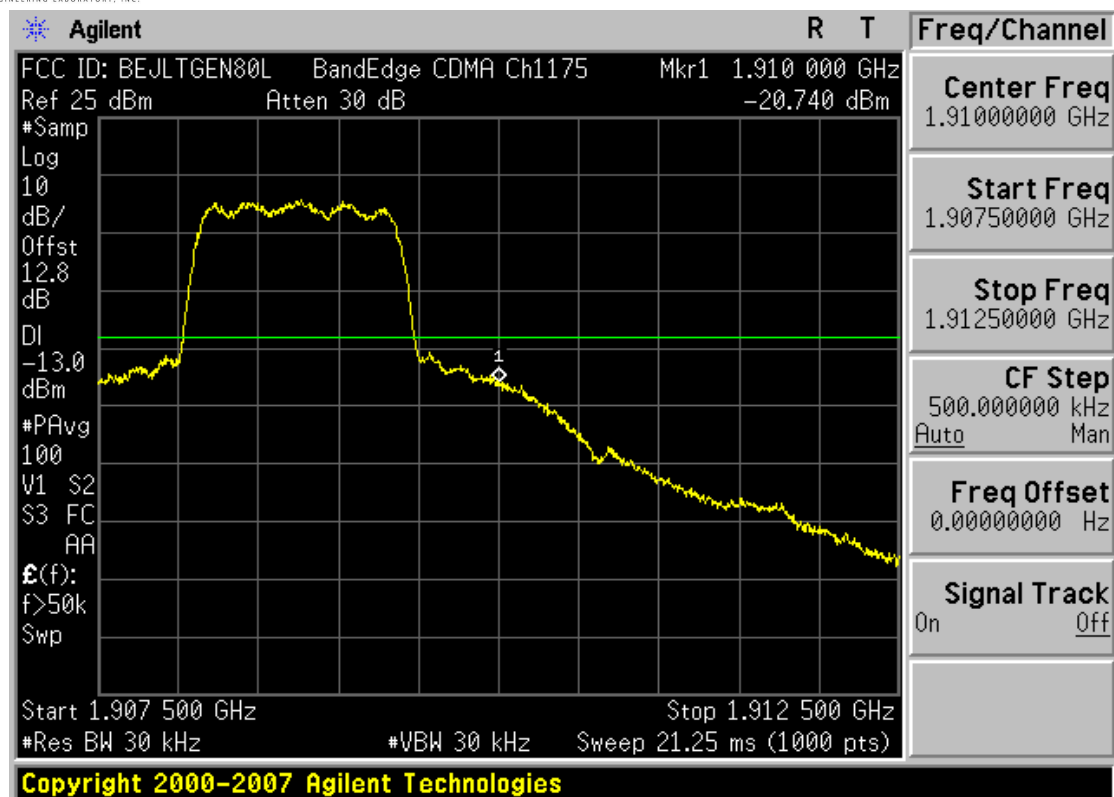


Plot 7-27. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)

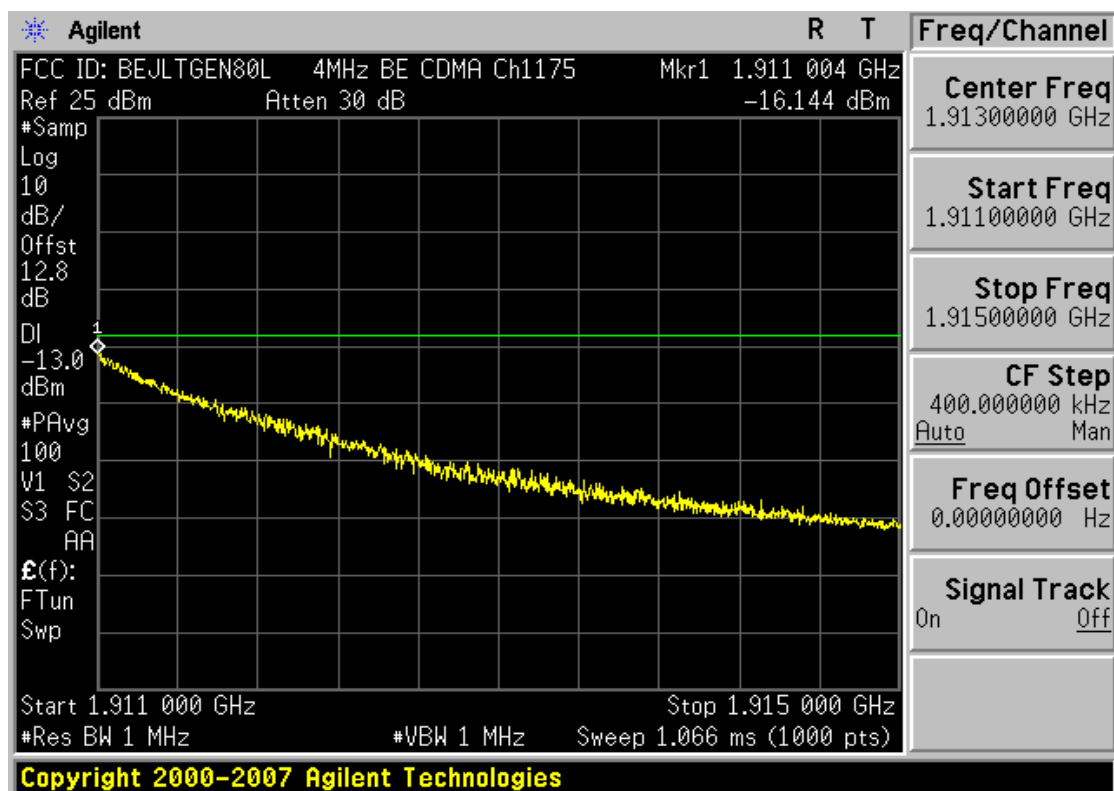


Plot 7-28. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)

| | | | | |
|------------------------------------|---|--|-----------|---------------------------------|
| FCC ID: BEJLTGEN80L | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | LG | Reviewed by: Quality Manager |
| Test Report S/N: 0806110813.BEJ | Test Dates: June 10-12, 2008 | EUT Type: Cellular/PCS AMPS/CDMA Transceiver with Bluetooth | | Page 38 of 40 |



Plot 7-29. Band Edge Plot (PCS CDMA Mode – Ch. 1175)





Plot 7-30. 4MHz Span Plot (PCS CDMA Mode – Ch. 1175)

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|------------------------------------|---|--|-----------|---------------------------------|
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8.0 CONCLUSION

The data collected shows that the **LG Cellular/PCS AMPS/CDMA Transceiver with Bluetooth FCC ID: BEJLTGEN80L** complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

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|---|---|--|---|--|
| FCC ID: BEJLTGEN80L |  | FCC Pt. 22/24 AMPS / CDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
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