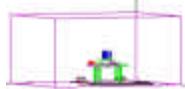


PCTEST ENGINEERING LABORATORY, INC.

6660 - B Dobbin Road . Columbia, MD 21045 . USA
Telephone 410.290.6652 / Fax 410.290.6654
<http://www.pctestlab.com> (email: randy@pctestlab.com)

CERTIFICATE OF COMPLIANCE**MANUFACTURER NAME & ADDRESS:**

NEC AMERICA INC.
6535 N. State Hwy. 161
Irving, TX 75039-2402

DATE & LOCATION OF TESTING:

Date(s) of Tests: October 21 & 26, 2004
Test Report S/N: 15.241018635.BEJ
Test Site: PCTEST Lab, Columbia, MD

| | |
|------------|------------------|
| FCC ID: | A98-KMP6J1AD |
| APPLICANT: | NEC AMERICA INC. |

SUMMARY:

Model No.: KMP6J1AD1-1A
Equipment EUT Type: Dual-Band CDMA Phone Model: KMP6J1AD1-1A w/ Bluetooth
Max. Output Power: 0.001 W Conducted
Frequency Range: 2402 – 2480 MHz
FCC Classification: FCC Part 15 Frequency Hopping Spread Spectrum Transceiver(DSS)
FCC Rule Part(s): Parts 15.247; ANSI C-63.4-2001

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 ANSI C-63.4-2001. If the EUT contains any additional embedded transmitters, then those transmitters were active during all tests. The EUT complies with Industry Bluetooth Standards. The JBC portion of this EUT is covered in the DOC report.

Grant Conditions: Listed output power is conducted.

I authorize and 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.

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

15. 230811393. AMW



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Attestation Statements

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 1 of 38 |

MEASUREMENT REPORT

FCC Part 15.247 Measurement Report Cover Page

A. General Information

APPLICANT NEC AMERICA INC.
APPLICANT ADDRESS 6535 N. State Hwy. 161
 Irving, TX 75039-2402
TEST SITE PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S) Parts 15.247; ANSI C-63.4-2001
MODEL NAME(S) KMP6J1AD1-1A
FCC ID A98-KMP6J1AD
Test Device Serial No.: S/N: 869207 Production Pre-Production Engineering
FCC CLASSIFICATION FCC Part 15 Spread Spectrum Transceiver (DSS)
Method/ System: FHSS Sequence Spread Spectrum (FHSS)
DATE(S) OF TEST October 21 & 26, 2004
TESTS REPORT S/N: 15.241018635.BEJ

A.1 Test Facility / NVLAP Accreditation

Measurements were performed at PCTEST Engineering Lab 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 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) in EMC, Telecommunication, and FCC for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. (NVLAP Lab code: 100431-0).
- 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.
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|-------------------------------|-----------------------------------|---|-------------------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 2 of 38 |

1.0 INTRODUCTION

1.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2001) and FCC Public Notice dated July 12, 1995 entitled "Guidance on Measurement for Direct Sequence Spread Spectrum System" were used in the measurement of **NEC AMERICA INC. A98-KMP6J1AD**.

Deviation from measurement procedure.....NONE

1.2 Scope

Measurement & determination of electromagnetic emissions (EMC) 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 PCTEST Test Location

The map at the right shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity are, the Baltimore-Washington Interntl (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1.2-1).

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 on October 19, 2002.

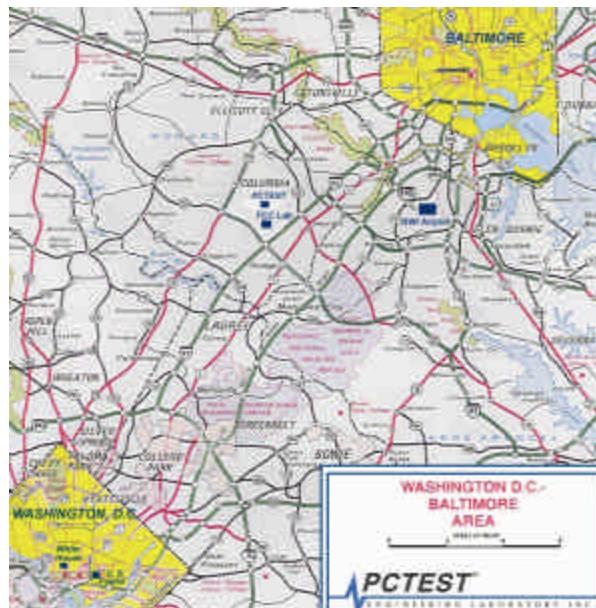


Figure 1.3-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|-------------------------------|-----------------------------------|--|-------------------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 3 of 38 |

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **NEC AMERICA INC. A98-KMP6J1AD**.

- . The EUT consisted of the following component(s):

Table 2-1. EUT Equipment Description

| Manufacturer / Model / Description | Serial Number |
|--|---------------|
| NEC AMERICA INC. / KMP6J1AD1-1A / Dual-Band CDMA Phone w/ Bluetooth | 869207 |

2.2 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing.

- None

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 4 of 38 |

3.0 DESCRIPTION OF TEST

3.1 Conducted Emissions

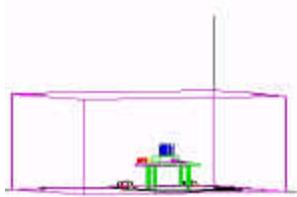


Figure 3.1-1. Shielded Enclosure Line-Conducted Test Facility

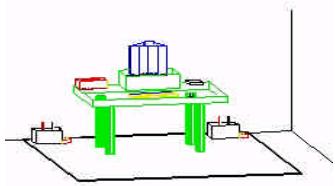


Figure 3.1-2. Line Conducted Emission Test Set Up

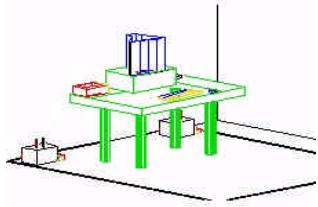


Figure 3.1-3. Wooden Table & Bonded LISNs

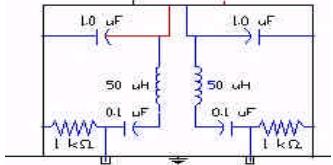


Figure 3.1-4. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure, manufactured by Ray Proof Series 81 (see Figure 3.1-1). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 1.5m away from the sidewall of the shielded room (see Figure 3.1-2). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (See Figure 3.1-3). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filter (100dB 14Hz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with an inner diameter of $\frac{1}{2}$ ". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the Solar LISN. The LISN schematic diagram is shown (See Figure 3.1-4). All interconnecting cables more than 1 meter were shortened to a 1-meter length by non-inductive bundling (serpentine fashion). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 150kHz to 30Mhz with a 20msec. sweep time. The frequencies producing the maximum level were re-examined using an EMI/Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak and average mode. The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H patter to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit M. Each EME reported was calibrated using the HP8640B signal generator.

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|-------------------------------|-----------------------------------|---|-------------------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 5 of 38 |

3.2 Radiated Emissions

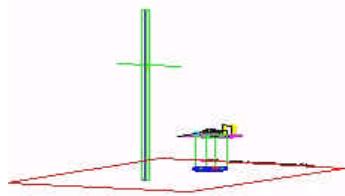


Figure 3.2-1. Meter Test Site

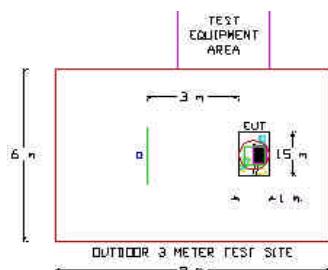


Figure 3.2-2. Dimensions of Outdoor Test Site

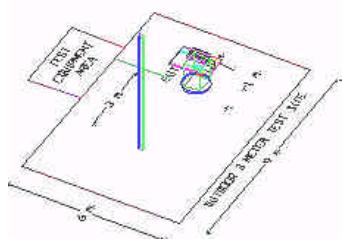


Figure 3.2-3. Turntable and System Setup

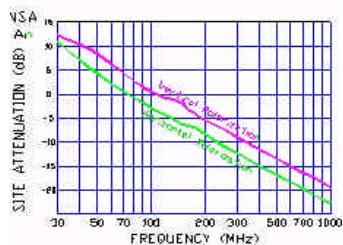


Figure 3.2-4. Normalized Site Attenuation Curves (H&V)

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using bi-conical antenna and from 200 to 1000 MHz using log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3 meter test range using Roberts™ Dipole antennas or horn antenna (see Figure 3.2-1). The test equipment was placed on a wooden and plastic bench situated on a 1.5 x 2 meter area adjacent to the measurement area (see Figure 3.2-2). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1 MHz depending on the frequency or type of signal. Above 1GHz the detector function was set to CISPR average mode (RBW = 1MHz, VBW = 10Hz).

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 3.2-3). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment; and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit E-G. Each EME reported was calibrated using the HP8640B signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3.2-4.

4.0 ANTENNA REQUIREMENTS

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the applicant can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with this requirement.

The antennas are **permanently attached antennae**.

There are no provisions for connection to an external antenna.

Conclusion:

The **NEC AMERICA INC. A98-KMP6J1AD** unit complies with the requirement of §15.203.

| Ch. | Frequency (MHz) |
|-----|-----------------|
| 1 | 2402 |
| : | : |
| 45 | 2440 |
| : | : |
| 89 | 2480 |

Table 4.1 Frequency/ Channel Operations

| | | | |
|-------------------------------|--|---|---------------------------------|
| PCTEST LAB TEST REPORT 15.247 |  FCC CERTIFICATION REPORT | NEC | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD |

5.0 TEST EQUIPMENT CALIBRATION DATA

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

| TYPE | MODEL | CAL. DUE DATE | CAL. INTERVAL | SERIAL No. |
|--------------------------------------|--------------------------------|---------------|---------------|---------------------------|
| Microwave Spectrum Analyzer | HP 8566 (100Hz-22GHz) | 12/05/04 | Annual | 3638A08713 |
| Microwave Spectrum Analyzer | HP 8566 (100Hz-22GHz) | 04/17/05 | Annual | 2542A11898 |
| Spectrum Analyzer/Tracking Generator | HP 8591A (9kHz-1.8GHz) | 06/02/05 | Annual | 3144A02458 |
| Spectrum Analyzer | HP 8591A (9kHz-1.8GHz) | 10/15/05 | Annual | 3108A02053 |
| Spectrum Analyzer | HP 8594A (9kHz-2.9GHz) | 11/02/05 | Annual | 3051A00187 |
| Signal Generator | HP 8650B (500Hz-1GHz) | 06/02/05 | Annual | 2232A19558 |
| Signal Generator | HP 8640B (500Hz-1GHz) | 06/02/05 | Annual | 1851A09816 |
| Signal Generator | Rohde & Schwarz (0.1-1GHz) | 09/22/05 | Annual | 894215/012 |
| Ailtech/Eaton Receiver | NM 37/57A-SL (30MHz-1GHz) | 04/12/05 | Annual | 0792-03271 |
| Ailtech/Eaton Receiver | NM 37/57A (30MHz-1GHz) | 03/11/05 | Annual | 0805-03334 |
| Ailtech/Eaton Receiver | NM 17/27A (0.1-32MHz) | 09/17/05 | Annual | 0608-03241 |
| Quasi-Peak Adapter | HP 85650A | 08/09/05 | Annual | 2043A00301 |
| Ailtech/Eaton Adapter | CCA-7 CISPR/ANSI QP Adapter | 03/11/05 | Annual | 0194-04082 |
| RG58 Coax Test Cable | No.167 | | | n/a |
| Harmonic/Flicker Test System | HP 6841A (IEC 555-2/3) | | | 3531A00115 |
| Broadband Amplifier (2) | HP 8447D | | | 1145A00470, 1937A03348 |
| Broadband Amplifier | HP 8447F | | | 2443A03784 |
| Transient Limiter | HP 11947A (9kHz-200MHz) | | | 2820A00300 |
| Horn Antenna (2) | EMCO Model 3115 (1-18GHz) | | | 9704-5182, 9205-3874 |
| Horn Antenna | EMCO Model 3116 (18-40GHz) | | | 9203-2178 |
| Biconical Antenna (3) | Eaton 94455-1 | | | 1295, 1332, 1277 |
| Log-Spiral Antenna (2) | Ailtech/Eaton 93490-1 | | | 0227, 1104 |
| Log-Spiral Antenna | Singer 93490-1 | | | 147 |
| Roberts Dipoles | Compliance Design (1 set) A100 | | | 5118 |
| Ailtech Dipoles | DM-105A (1set) | | | 33448-111 |
| EMCO LISN (3) | 3816/2, 3816/2, 3725/2 | | | 1077, 1079, 2099 |
| 50-ohm Terminator | n/a | | | n/a |
| Microwave Preamp 40dB Gain | HP 83017A (0.5-26.5GHz) | | | 3123A00181 |
| Microwave Cables | MicroCoax (1.0-26.5GHz) | | | n/a |
| Ailtech/Eaton Receiver | NM37/57A-SL | | | 0792-03271 |
| Spectrum Analyzer | HP 8591A | | | 3034A01395 |
| Modulation Analyzer | HP 8901A | | | 2432A03467 |
| NTSC Pattern Generator | Leader 408 | | | 0377433 |
| Noise Figure Meter | HP 8970B, Ailtech 7510 | | | 3106A02189, TE31700 |
| Noise Generator | Ailtech 7010 | | | 1473 |
| Microwave Survey Meter | Holaday Model 1501 (2.45GHz) | | | 80931 |
| Digital Thermometer | Extech Instruments 421305 | | | 426966 |
| Attenuator | HP 8495A (0-70dB) DC-4GHz | | | |
| Bi-Directional Coax Coupler | Narda 3020A (50-1000MHz) | | | |
| Shielded Screen Room | RF Lindgren Model 26-2/2-0 | | | 6710 (PCT270) |
| Shielded Semi-Anechoic Chamber | Ray Proof Model S81 | | | R2437 (PCT278) |
| Environmental Chamber | Associated Systems 1025 | | | PCT285 |
| OATS | n/a | 12/31/2004 | Tri-annual | |

Table 5-1. Annual Test Equipment Calibration Schedule

| PCTEST LAB TEST REPORT 15.247 |  FCC CERTIFICATION REPORT | NEC | Reviewed by: Quality Manager |
|-------------------------------|--|--|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD |

6.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **NEC AMERICA INC. A98-KMP6J1AD Dual-Band CDMA Phone w/ Bluetooth** is in compliance with Part 15C of the FCC Rules.

| PCTEST LAB TEST REPORT 15.247 | | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|--------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 9 of 38 | |

EXHIBIT A – Test Results

Summary

The intentional radiator has been tested in a simulated typical installation to demonstrate compliance with the relevant FCC performance and procedural standards.

The radio was transmitting at full power on the specified channels and at a data rate(s) specified above. The channels tested are high, middle and low of the allocated bands.

Final system data was gathered in a mode that tended to maximize emissions by varying the orientation of the EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization.

| | | | |
|---------------------|--|--|--|
| Test Date(s): | October 21 & 26, 2004 | | |
| Test Engineer: | Steve Liu | | |
| Method/System: | Frequency Hopping Spread Spectrum (FHSS) | | |
| Number of channels: | 79 | | |

| FCC Part Section(s) | RSS 210 Section | Test Description | Test Limit | Result |
|------------------------------|------------------------|--|---|--------|
| <u>TRANSMITTER MODE (TX)</u> | | | | |
| 15.247(a)(2) | | 20dB Bandwidth | > 1 MHz | Pass |
| 15.247(b) | 6.22(o)(a3) | Transmitter Output Power | < 1 Watt | Pass |
| 15.247(c) | 5.9.1 6.2.2(o) (e1) | Occupied BandEdge Out-of-Band Emissions (BandEdge at 20dB below) | Radiated <20dBc. Emissions in restricted bands must meet the radiated limits detailed in 15.207 | Pass |
| 15.205 15.209 | 6.2.1 6.3 | General Field Strength Limits (Restricted Bands and Radiated Emission Limits) | < FCC 15.209 limits or < RSS-210 table 3 limits Emissions in restricted bands must meet the radiated limits detailed in 15.209 | Pass |
| 15.207 | 6.6 | AC Conducted Emissions 150kHz – 30MHz | EN55022 | Pass |
| <u>RECEIVER MODE (RX)</u> | | | | |
| 15.207 | 7.4 | AC Conducted Emissions 150kHz – 30MHz | Class B = 250µV | Pass |
| 15.209 | 7.3 | General Field Strength Limits (Restricted Bands and Radiated Emissions Limits) | < FCC 15.209 limits or < RSS-210 table 3 limits | Pass |

Table A-1. Summary of Test Results

| | | | |
|-------------------------------|--|---|---------------------------------|
| PCTEST LAB TEST REPORT 15.247 |  FCC CERTIFICATION REPORT | NEC | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD |

EXHIBIT A – Test Results (Cont.)

20dB Bandwidth Measurement (Handset)

§15.247(a)(2)

The bandwidth at 20dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – The transmitter shall have a maximum 20dB bandwidth of 1 MHz.

The spectrum analyzer is set to:

RBW = 30 kHz (10dB/div)
 VBW = 30 kHz
 Span = 1.5 MHz
 Ref. Level = 0 dBm
 Sweep = 2.132 ms

| Frequency (MHz) | Channel No. | Test Results | |
|--------------------|----------------|----------------------|-----------|
| | | 20dB Bandwidth (kHz) | Pass/Fail |
| 2402 | 1 | 898 | Pass |
| 2440 | 45 | 963 | Pass |
| 2480 | 79 | 960 | Pass |

– See next pages for actual measured spectrum plots

Table A-2. Conducted Bandwidth Measurements

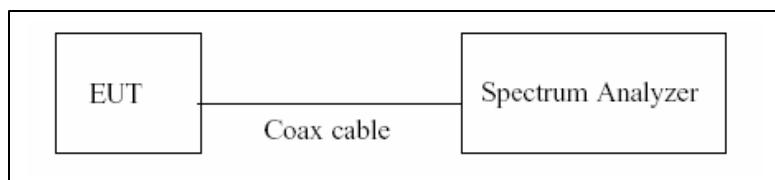
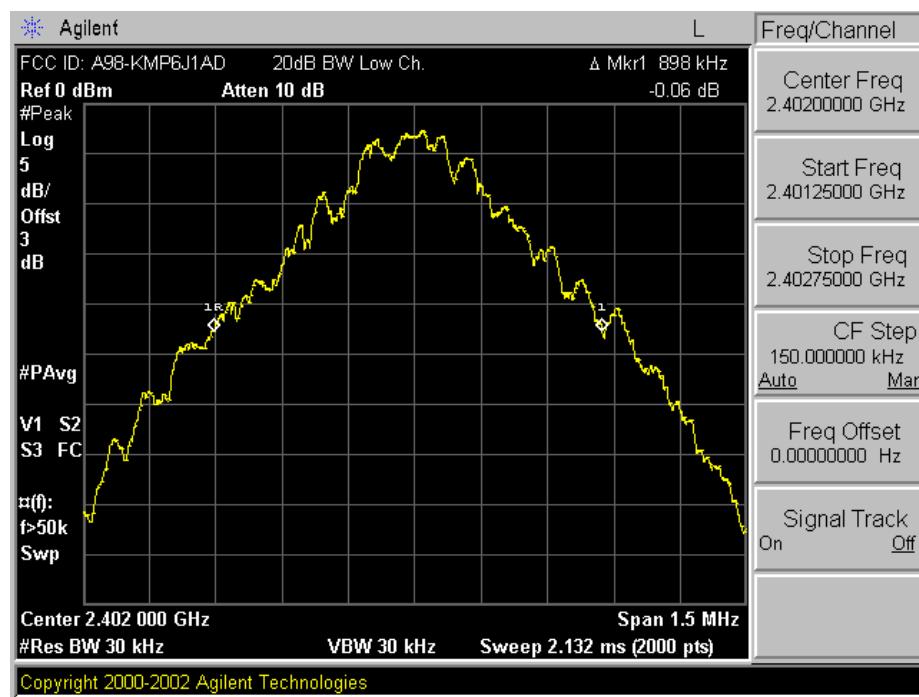


Figure A-1. Test Instrument & Measurement Setup

| | | | |
|----------------------------------|--|--|---------------------------------|
| PCTEST LAB TEST REPORT 15.247 |  FCC CERTIFICATION REPORT | NEC | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD |



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| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 12 of 38 |



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| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT NEC | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 13 of 38 |

EXHIBIT A – Test Results (Cont.)

Output Power Measurement

§15.247(b)

Measurement is made while the EUT is operating in non-hopping transmission mode

Minimum Standard – The transmitter peak output power shall not exceed 1 watt.

| Frequency (MHz) | Channel No. | Conducted Power | |
|--------------------|----------------|-----------------|-----|
| | | dBm | mW |
| 2402.00 | 1 | 0 | 1.0 |
| 2441.00 | 45 | 0 | 1.0 |
| 2480.00 | 79 | 0 | 1.0 |

Table A-3. Output Power Measurements

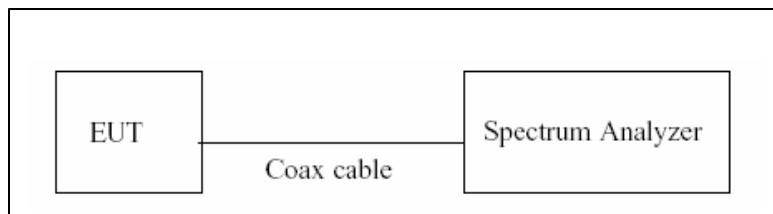
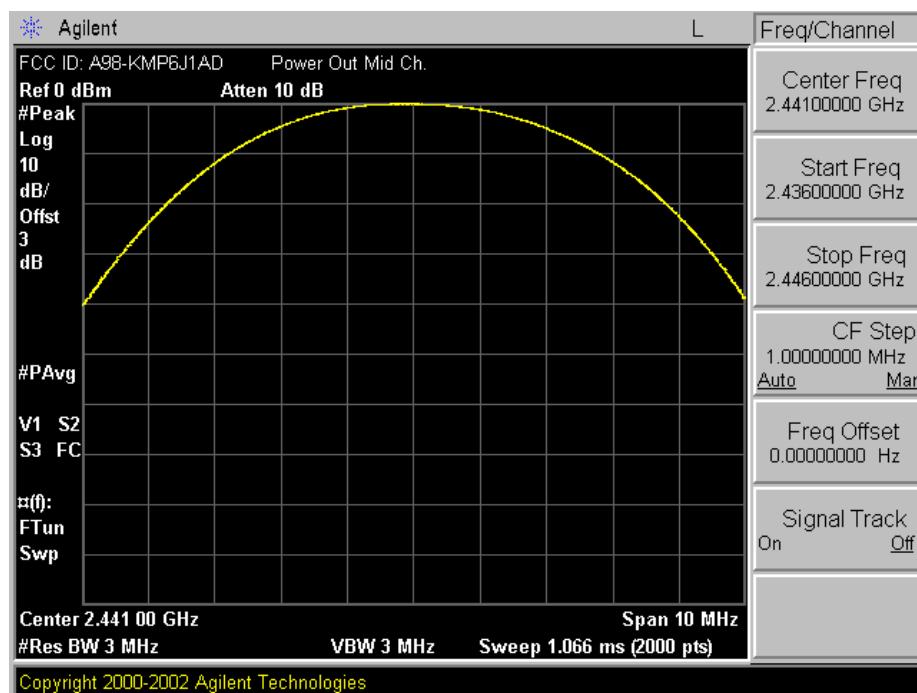
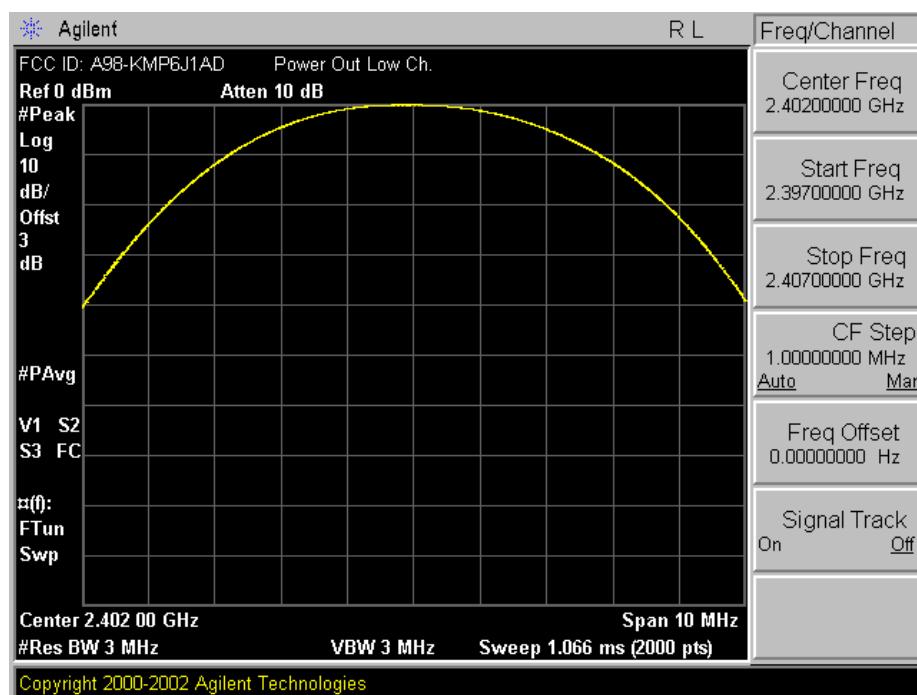
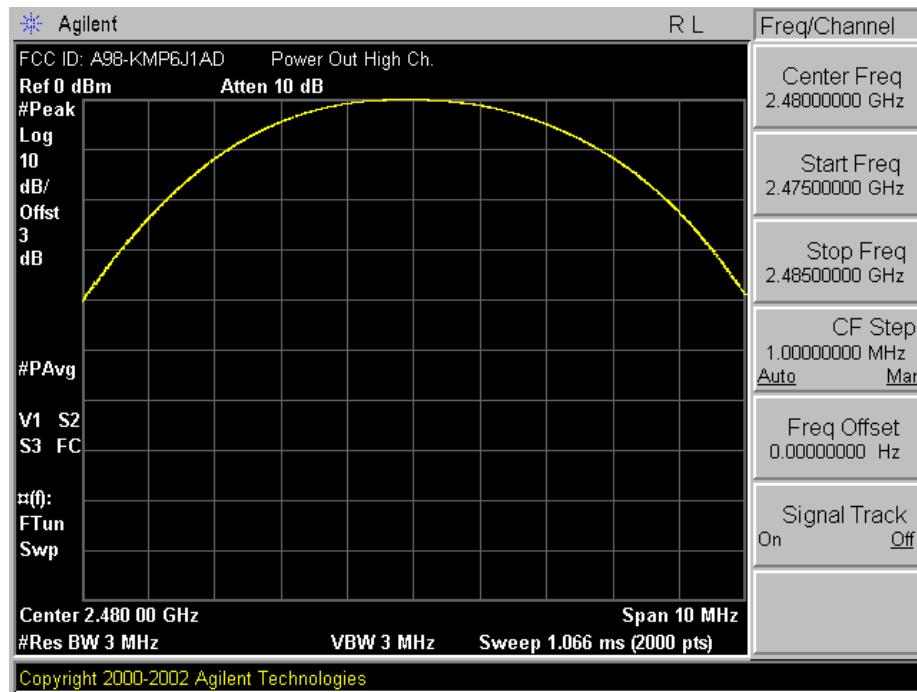


Figure A-3. Test Instrument & Measurement Setup

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 14 of 38 |



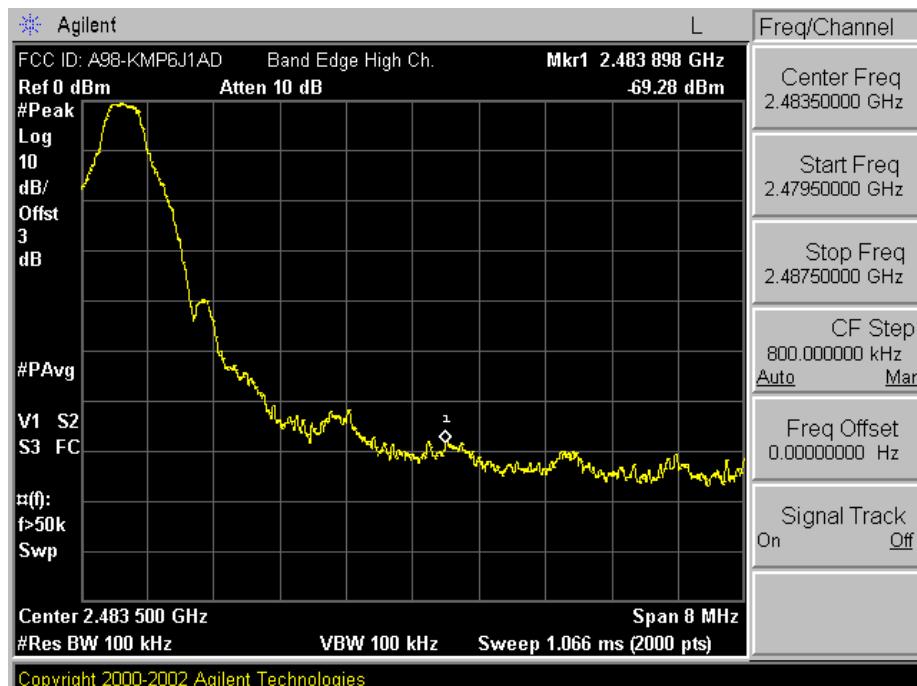
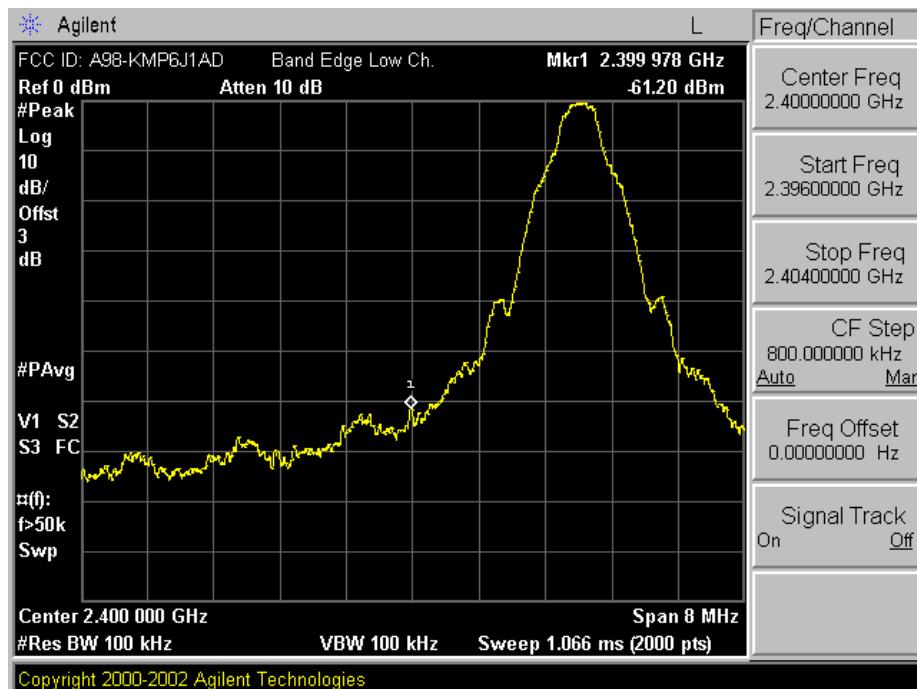
| | | | | |
|-------------------------------|-----------------------------------|---|-------------------------|---------------------------------|
| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 15 of 38 |



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EXHIBIT A – Test Results (Cont.)

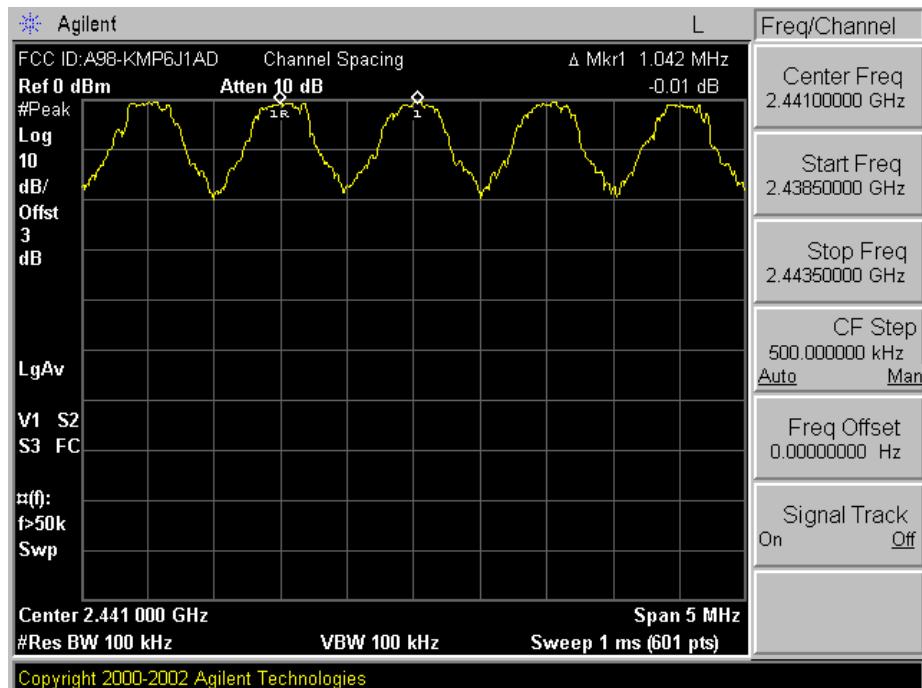
Band Edge Compliance



| | | | | |
|-------------------------------|-----------------------------------|---|-------------------------|---------------------------------|
| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 17 of 38 |

EXHIBIT A – Test Results (Cont.)

Carrier Frequency Separation

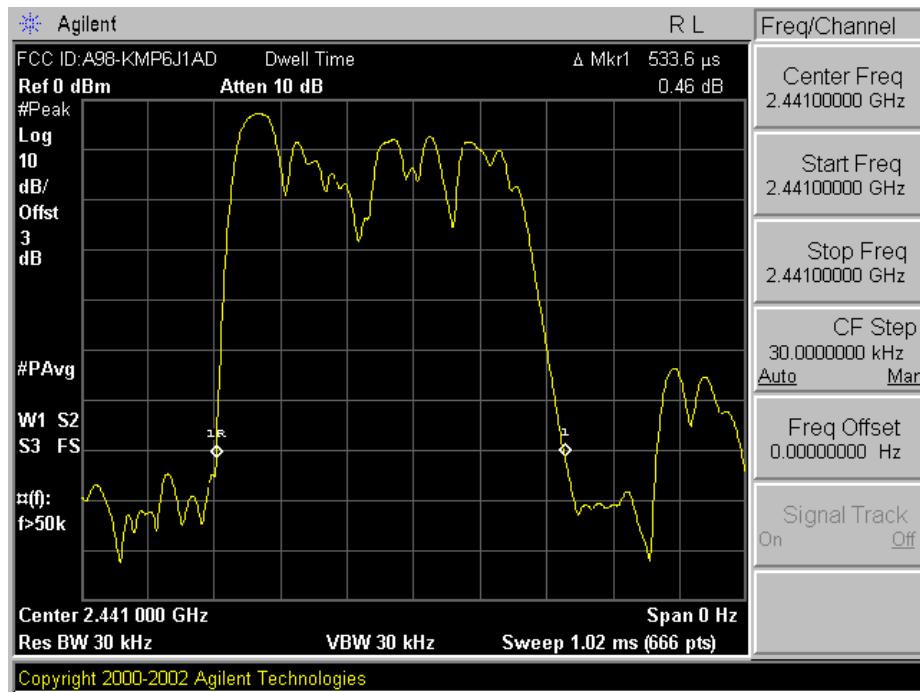


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| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
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EXHIBIT A – Test Results (Cont.)

Dwell Time

§15.247(b) / §15.205 & §15.209

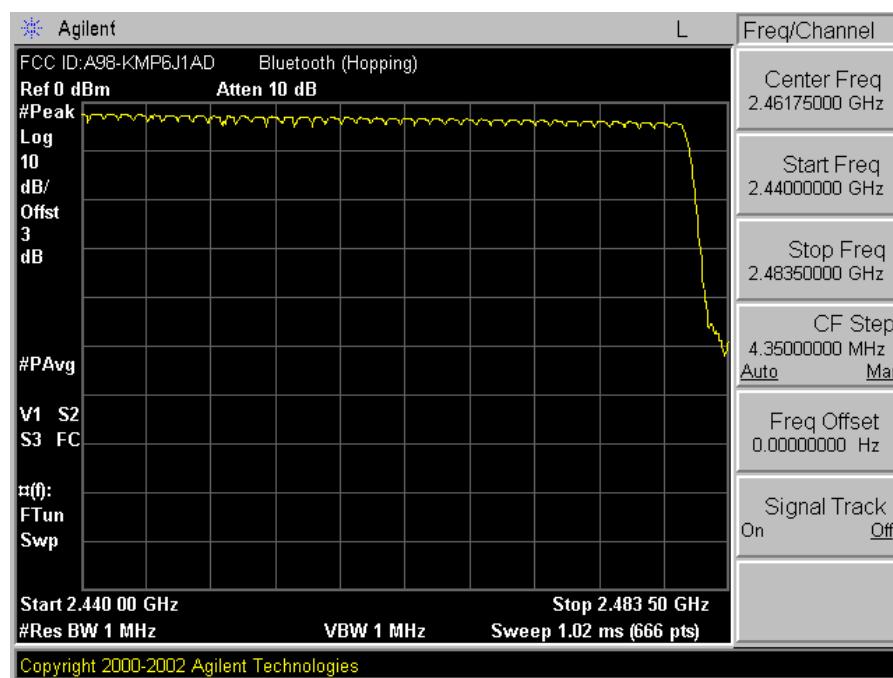
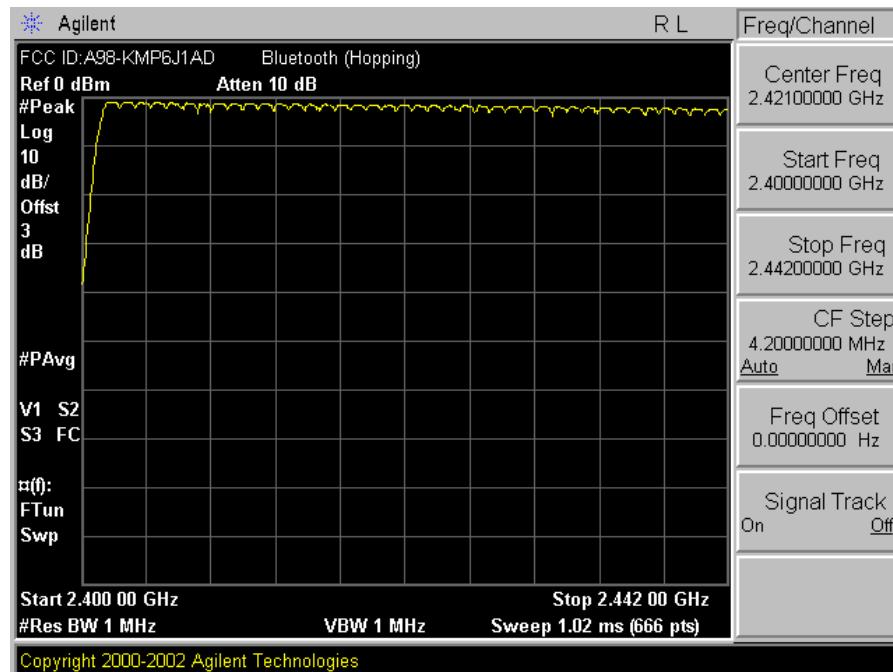


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|-------------------------------|-------------------------------------|---|-------------------------|---------------------------------|
| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT NEC | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 19 of 38 |

EXHIBIT A – Test Results (Cont.)

Channel Hopping

\$15.247(b) / §15.205 & §15.209



| | | | | |
|-------------------------------|-----------------------------------|---|-------------------------|---------------------------------|
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| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 20 of 38 |

EXHIBIT A – Test Results (Cont.)

Radiated Harmonic Measurements (Cont.)

§15.247(b) / §15.205 & §15.209

Distance of Measurements: 3 Meters

Channel: 01

| FREQ. (MHz) | LEVEL (dBm) | AFCL (dB) | POL (H/V) | F/S (dBuV/m) | F/S (μ V/m) | MARGIN (dB) |
|----------------|----------------|--------------|--------------|-----------------|---------------------|----------------|
| 4804.00 | -100.00 | 40.7 | V | 46.5 | 211.3 | -7.5 |
| 7206.00 | -106.40 | 48.2 | V | 48.8 | 275.4 | -5.2 |
| 9608.00 | -115.30 | 50.4 | V | 42.1 | 127.4 | -11.9 |
| 12010.00 | -135.00 | 53.8 | V | 25.8 | 19.5 | -28.2 |

Table A-8. Harmonic Measurements

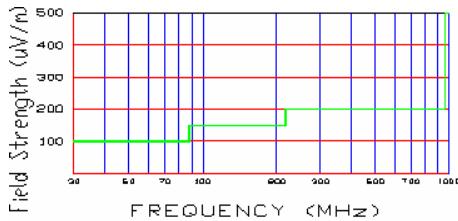


Figure A-7. Radiated limits at 3 meters.

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-18. (Note: * = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz RBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/full-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 dBm are below the analyzer floor level.
9. Above 1 GHz, the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|-------------------------------|-----------------------------------|--|-------------------------|---------------------------------|
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EXHIBIT A – Test Results (Cont.)

Radiated Harmonic Measurements (Cont.)

§15.247(b) / §15.205 & §15.209

Distance of Measurements: 3 Meters

Channel: 45

| FREQ. (MHz) | LEVEL (dBm) | AFCL (dB) | POL (H/V) | F/S (dBuV/m) | F/S (uV/m) | MARGIN (dB) |
|----------------|----------------|--------------|--------------|-----------------|---------------|----------------|
| 4882.00 | -100.10 | 40.5 | V | 47.4 | 234.4 | -6.6 |
| 7323.00 | -105.80 | 48.0 | V | 49.2 | 288.4 | -4.8 |
| 9764.00 | -115.70 | 50.3 | V | 41.6 | 120.2 | -12.4 |
| 12205.00 | -135.00 | 53.7 | V | 25.7 | 19.3 | -28.3 |

Table A-9. Radiated Fundamental & Harmonic Measurements

NOTES:

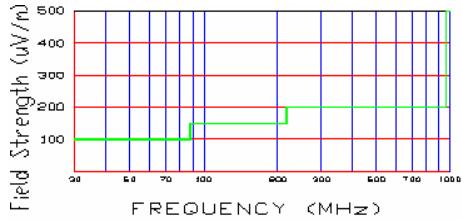


Figure A-8. Radiated limits at 3 meters.

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-18. (Note: * = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 dBm are below the analyzer floor level.
9. Above 1 GHz, the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

| | | | |
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| PCTEST LAB TEST REPORT 15.247 |  FCC CERTIFICATION REPORT | NEC | Reviewed by: Quality Manager |
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EXHIBIT A – Test Results (Cont.)

Radiated Harmonic Measurements (Cont.)

§15.247(b) / §15.205 & §15.209

Distance of Measurements: 3 Meters

Channel: 79

| FREQ. (MHz) | LEVEL (dBm) | AFCL (dB) | POL (H/V) | TOTAL (dBuV/m) | F/S (uV/m) | MARGIN (dB) |
|----------------|----------------|--------------|--------------|-------------------|---------------|----------------|
| 4960.00 | -101.20 | 40.7 | V | 46.5 | 211.3 | -7.5 |
| 7440.00 | -106.30 | 48.2 | V | 48.9 | 278.6 | -5.1 |
| 9920.00 | -115.10 | 50.4 | V | 42.3 | 130.3 | -11.7 |
| 12400.00 | -135.00 | 53.8 | V | 25.8 | 19.5 | -28.2 |

Table A-10. Radiated Fundamental & Harmonic Measurements

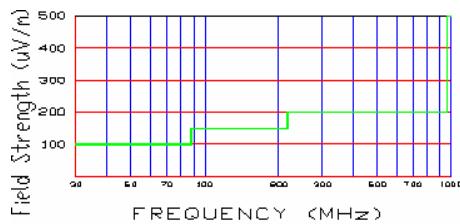


Figure A-9. Radiated limits at 3 meters.

NOTES:

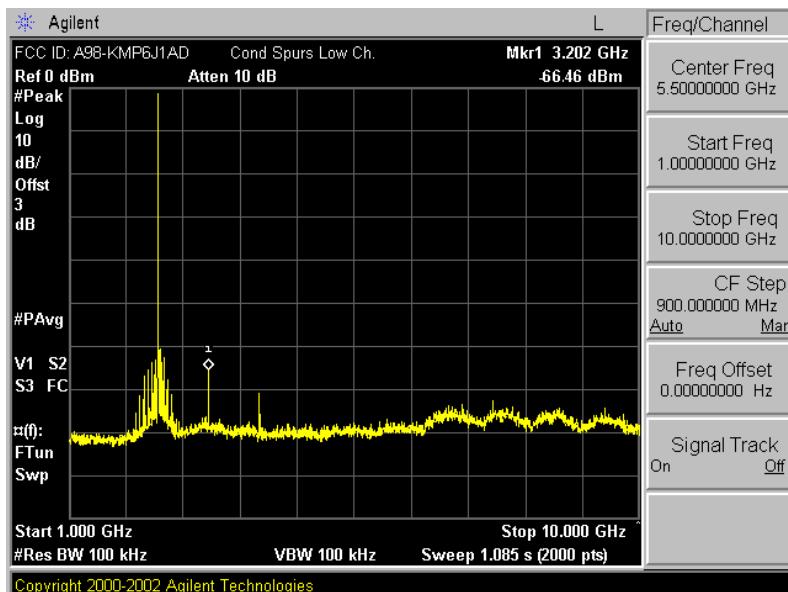
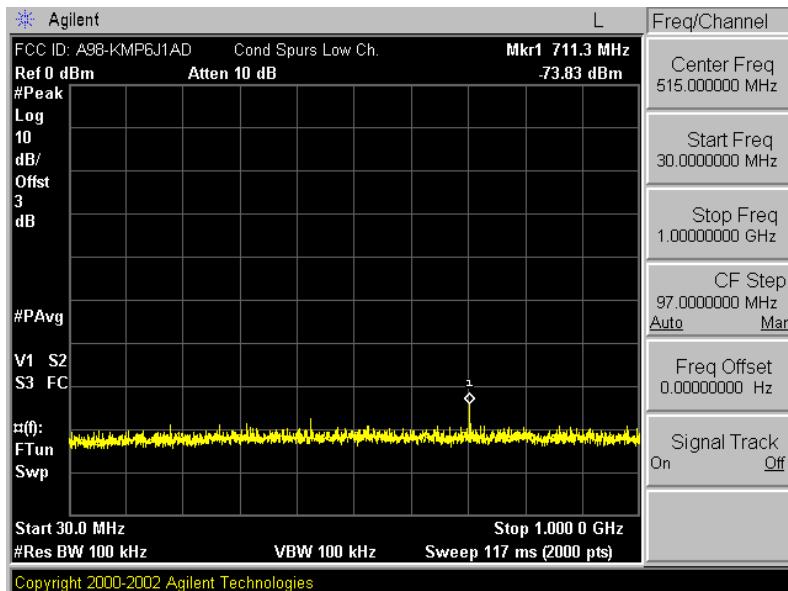
1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-18. (Note: * = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 dBm are below the analyzer floor level.
9. Above 1 GHz, the limit is 500 μ V/m (54dB μ m) at 3 meters radiated.

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|-------------------------------|-----------------------------------|--|-------------------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 23 of 38 |

EXHIBIT A – Test Results (Cont.)

Conducted Spurious Measurements

\$15.205 / \$15.209

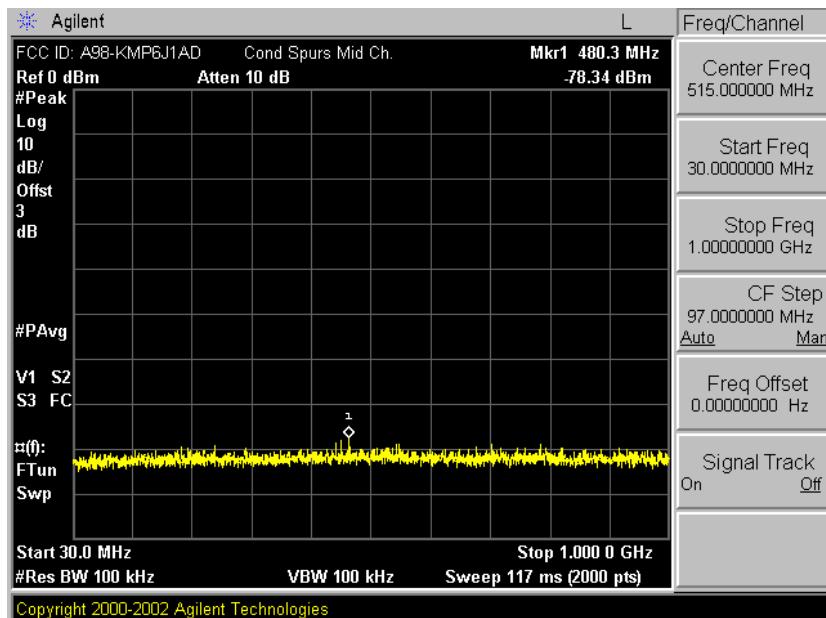
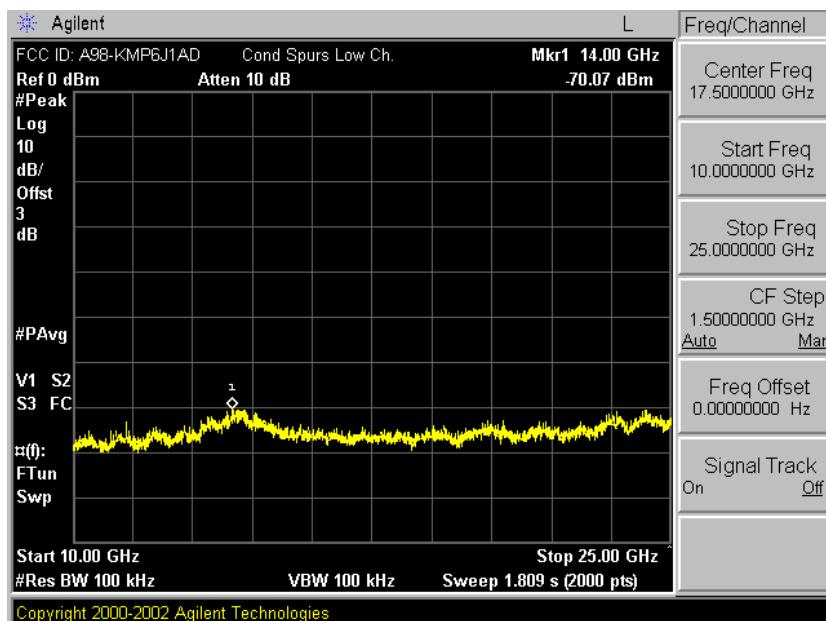


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| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT NEC | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 24 of 38 |

EXHIBIT A – Test Results (Cont.)

Conducted Spurious Measurements

\$15.205 / \$15.209

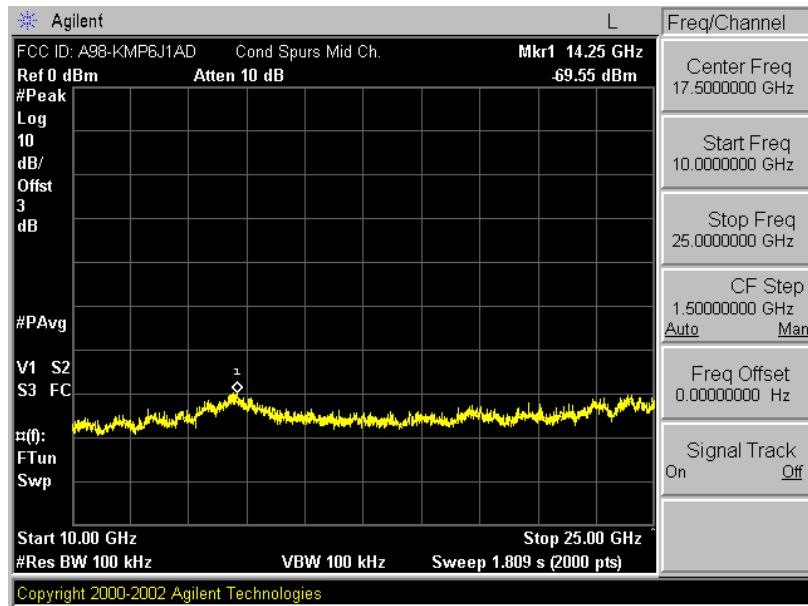
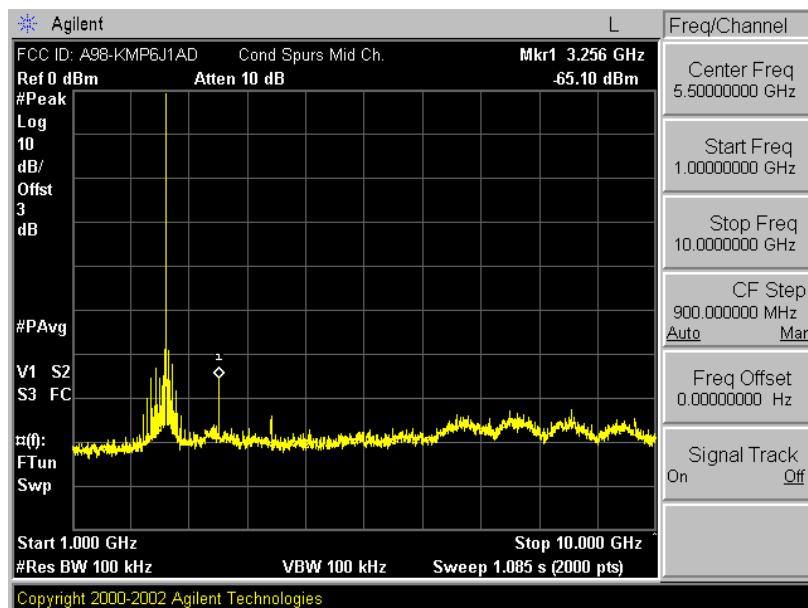


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| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT NEC | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 25 of 38 |

EXHIBIT A – Test Results (Cont.)

Conducted Spurious Measurements

\$15.205 / \$15.209

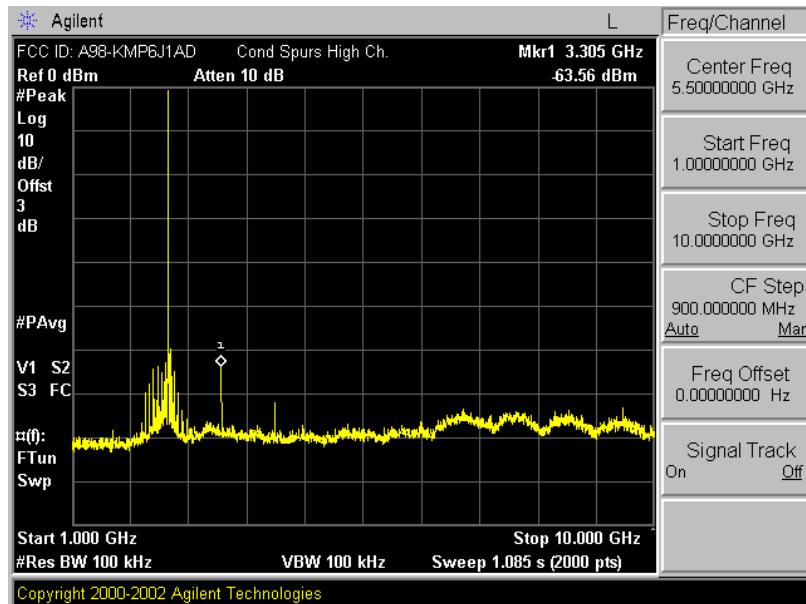
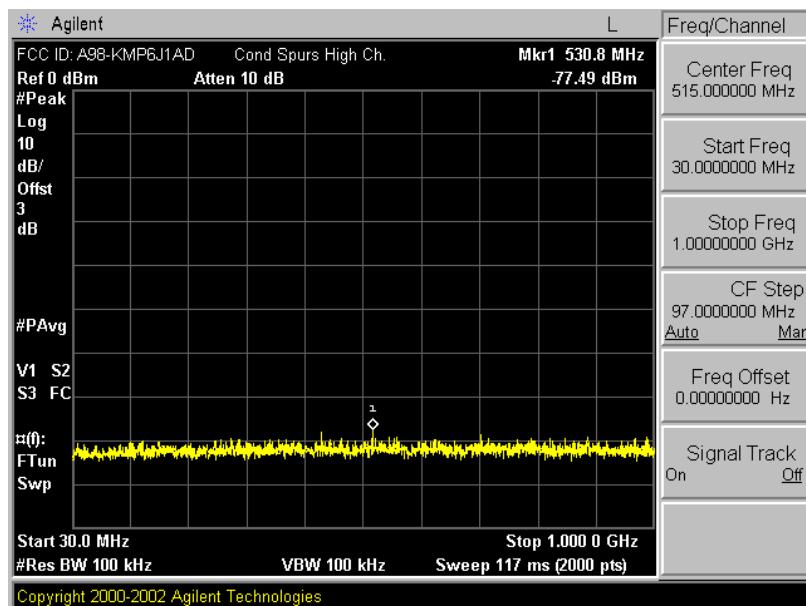


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| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 26 of 38 |

EXHIBIT A – Test Results (Cont.)

Conducted Spurious Measurements

\$15.205 / \$15.209

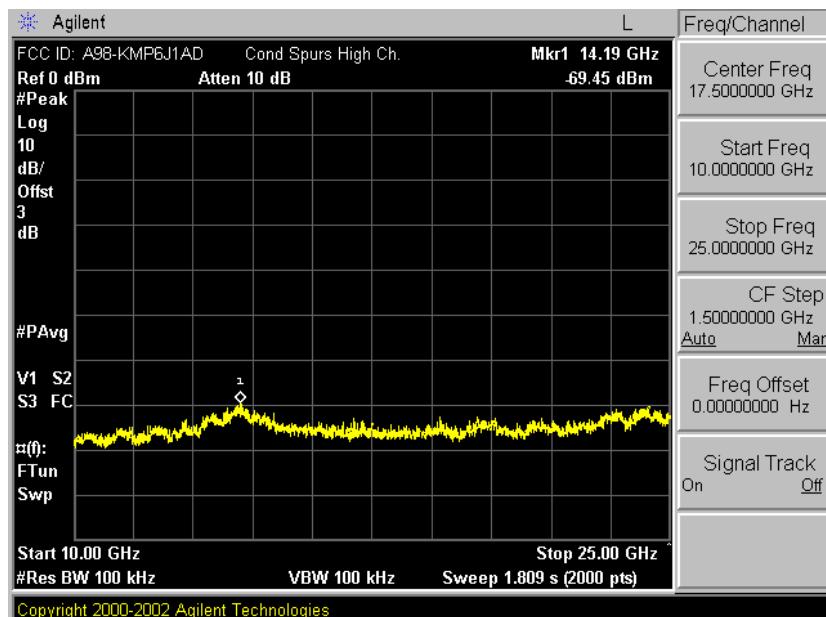


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|-------------------------------|-------------------------------------|---|-------------------------|---------------------------------|
| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT NEC | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 27 of 38 |

EXHIBIT A – Test Results (Cont.)

Conducted Spurious Measurements

\$15.205 / \$15.209



| | | | | |
|-------------------------------|-------------------------------------|---|-------------------------|---------------------------------|
| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT NEC | | | Reviewed by: Quality Manager |
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 28 of 38 |

EXHIBIT A – Test Results (Cont.)**Radiated Restricted Band Measurements****\$15.205 / \$15.209**

Special attention is made for the EUT's harmonic and spurious radiated emission in the restricted bands of operations. The EUT was tested from 9kHz and up to the tenth harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHZ. Above 1 GHz, average measurement was used, using RBW 1MHz – VBW 10Hz and linearly polarized horn antennas. All harmonics/spurs are at least 20dB below the highest emission in the authorized band using RBW = 100kHz. In addition, peak measurements were taken to ensure that the peak levels are not more than 20dB above the average limit. All out of band emissions, other than those created by the spreading sequence, data sequence, and the carrier modulation must not exceed the limits show in Table G-1 per Section 15.209.

| Frequency | F/S (mV/m) | Measured Distance (Meters) |
|-------------------|---------------|----------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz) | 300 |
| 0.490 – 1.705 MHz | 24000/F (kHz) | 30 |
| 1.705 – 30.00 MHz | 30 | 30 |
| 30.00 – 88.00 MHz | 100 | 3 |
| 88.00 – 216.0 MHz | 150 | 3 |
| 216.0 – 960.0 MHz | 200 | 3 |
| Above 960.0 MHz | 500 | 3 |

Table A-11. Restricted Band Limits**TEST MEASUREMENT EQUIPMENT**

| | |
|------------------|--|
| Agilent E4448A | PSA Spectrum Analyzer 3 Hz - 50GHz |
| HP 8566B | Spectrum Analyzer 100Hz – 22GHz |
| HP 83017A | Microwave Analyzer 40dB Gain (0.5 – 26.5GHz) |
| HP 3784A | Digital Transmission Analyzer |
| EMCO 3115 | Horn Antenna (1 – 18GHz) |
| HP 8495A | 20dB Attenuator (DC-40GHz) 0 – 70dB |
| HP 8493B | 10dB Attenuator |
| MicroCoax Cables | Low Loss Microwave Cables (1 – 26.5GHz) |
| CDI Dipoles | Dipole Antennas (30 – 1000MHz) |
| EMCO 3116 | Horn Antenna (18 – 40GHz) |

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EXHIBIT A – Test Results (Cont.)

Radiated Restricted Band Measurements (Cont.)

§15.205 /§15.209 courtesy

Operating Frequency: 2480 MHz
Number of Channels: 79

| FREQ (MHz) | Level (dBm) | AFCL (dB/m) | POL (H/V) | F/S (dB μ V/m) | F/S (uV/M) | Margin (dB) |
|------------|-------------|-------------|-----------|--------------------|------------|-------------|
| 2483.6 | -97.0 | 33.0 | V | 43.0 | 141.3 | -11.0 |
| 2484.4 | -95.8 | 33.0 | V | 44.2 | 162.2 | -9.8 |
| 2484.5 | -94.5 | 33.1 | V | 45.6 | 190.5 | -8.4 |
| 2485.1 | -97.2 | 33.1 | V | 42.9 | 139.6 | -11.1 |
| 2493.0 | -101.0 | 33.2 | V | 39.2 | 91.2 | -14.8 |
| 2496.0 | -102.4 | 33.2 | V | 37.8 | 77.6 | -16.2 |

Table A-12. Radiated Restricted Band Measurements at 3-meters

NOTES:

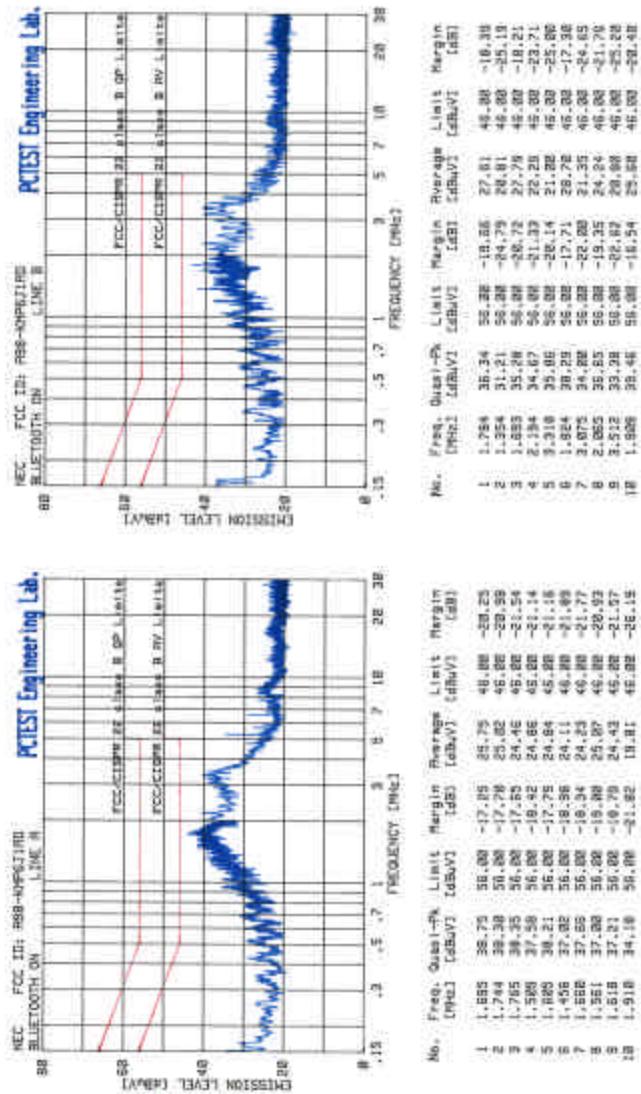
1. The antenna is manipulated through typical positions, polarity and length during the testing.
2. The EUT is supplied with the minimal AC voltage or/and a new/fully recharged battery.
3. The spectrum is measured from 9kHz up to the 10th harmonic and the worst-case emissions are reported.
4. The conducted limits are shown on Figure A-14. Above 1 GHz the limit is 500 μ V/m.
5. < -135 dBm is below the analyzer measurement floor level.
6. The peak emissions above 1 GHz are not more than 20 dB above average limit.

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EXHIBIT A – Test Results (Cont.)

Line-Conducted Test Data

§15.207



Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: *None*.

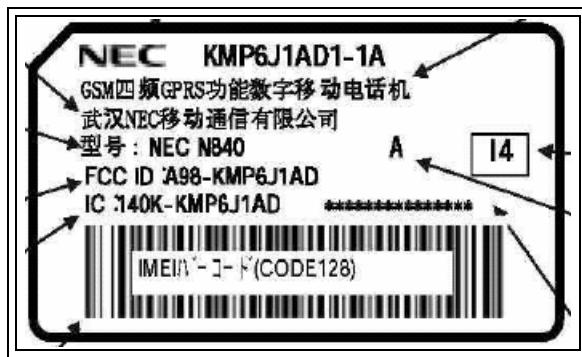
| PCTEST LAB TEST REPORT 15.247 | | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|-------------------------------|-----------------------------------|--|-------------------------|---------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 31 of 38 | |

EXHIBIT B – Labeling Requirements**Sample Label & Location**

New Labeling Requirements

Per 2.1074 & 15.19: Docket 95-19

The sample label shown below 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, FCC ID, and the FCC logo must be displayed on the device per Section 15.19 (b)(2).



| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
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EXHIBIT B – Labeling Requirements (Cont.)**Sample Label & Location**

| PCTEST LAB TEST REPORT 15.247 | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
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| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 33 of 38 |

EXHIBIT C – Block Diagram/Schematics

| PCTEST LAB TEST REPORT 15.247 | | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|---------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 34 of 38 | |

EXHIBIT D – Operational Description

| PCTEST LAB TEST REPORT 15.247 | | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|---------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 35 of 38 | |

EXHIBIT E – Test Setup Photographs

| PCTEST LAB TEST REPORT 15.247 | | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|-----|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | NEC | Page 36 of 38 |

EXHIBIT F – EUT External/ Internal Photographs

| PCTEST LAB TEST REPORT 15.247 | | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|-----|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | NEC | Page 37 of 38 |

EXHIBIT G – User's Manual

| PCTEST LAB TEST REPORT 15.247 | | FCC CERTIFICATION REPORT | | | Reviewed by: Quality Manager |
|----------------------------------|-----------------------------------|--|-------------------------|---------------|---------------------------------|
| Filename: 15.241018635.BEJ | Test Dates: Oct. 21 & 26, 2004 | EUT Type: Dual-Band CDMA Phone w/ Bluetooth | FCC ID: A98-KMP6J1AD | Page 38 of 38 | |