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CERTIFICATE OF COMPLIANCE FCC PART 15.247 Certification

Applicant Name:

Kyocera Corporation
2-1-1 Kagahara. Tsuzuki-ku
Yokohama-shi, Kanagawa
Japan 224-8502

Date of Testing:

February 21, 2008

Test Site/Location:

PCTEST Lab. Columbia, MD, USA

Test Report Serial No.:

0802150187.JOY

FCC ID: JOYSCP-6750

APPLICANT: Kyocera Corporation

Model(s): SCP-6750

EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EvDO

Max. RF Output Power: 1.535 mW (1.86 dBm) Conducted

Frequency Range: 2402 – 2480MHz (Bluetooth for US)

FCC Classification: FCC Part 15 Spread Spectrum Transmitter (DSS)

FCC Rule Part(s): Part 15 Subpart C (15.247)

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 C63.4-2003.

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

Grant Conditions: Power output listed is conducted.

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



Randy Ortanez
President

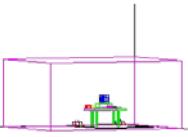
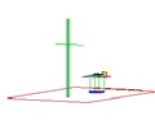


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Test Report S/N: 0802150187.JOY	Test Dates: February 21, 2008	EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EvDO		Page 1 of 28

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MEASUREMENT REPORT

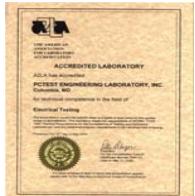
FCC Part 15.247

§ 2.1033 General Information

APPLICANT: Kyocera Corporation
APPLICANT ADDRESS: 2-1-1 Kagahara. Tsuzuki-ku
Yokohama-shi, Kanagawa, Japan 224-8502
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): Part 15 Subpart C (15.247)
BASE MODEL: SCP-6750
FCC ID: JOYSCP-6750
Test Device Serial No.: A0000005FEE80E Production Pre-Production Engineering
FCC CLASSIFICATION: FCC Part 15 Spread Spectrum Transmitter (DSS)
Method/System: Frequency Hopping Spread Spectrum (FHSS)
DATE(S) OF TEST: February 21, 2008
TEST REPORT S/N: 0802150187.JOY

Test Facility / Accreditations

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



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

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1.0 INTRODUCTION

1.1 Scope

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

1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity are, the Baltimore-Washington Intert'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see *Figure 1-1*).

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

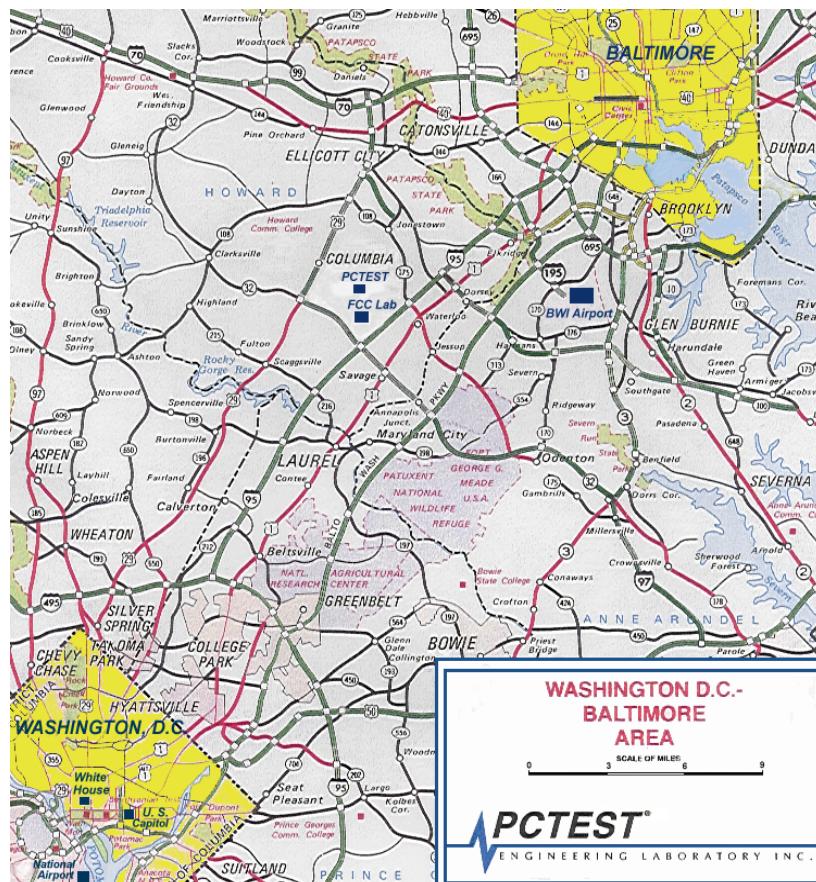


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Kyocera Cellular/PCS CDMA Phone with Bluetooth and EvDO** **FCC ID: JOYSCP-6750**. This unit supports Bluetooth version 1.x. The test data contained in this report pertains only to the emissions due to the EUT's Bluetooth transmitter.

- This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:
 - A) The hopping sequence is pseudorandom
 - B) All channels are used equally on average
 - C) The receiver input bandwidth equals the transmit bandwidth
 - D) The receiver hops in sequence with the transmit signal
- 15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.
- 15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channel selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.
- The EUT consisted of the following component(s):

Manufacturer / Base Model	FCC ID	Description
Kyocera / Model: SCP-6750	JOYSCP-6750	Cellular/PCS CDMA Phone with Bluetooth and EvDO

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.

FCC ID: JOYSCP-6750	 PCTEST Engineering Laboratory, Inc.	FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)	 KYOCERA	Reviewed by: Quality Manager
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3.0 DESCRIPTION OF TEST

3.1 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 C63.4-2003) and FCC Public Notice DA 00-705 dated March 30, 2000 entitled "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" were used in the measurement of the **Kyocera Cellular/PCS CDMA Phone with Bluetooth and EvDO FCC ID: JOYSCP-6750**.

Deviation from measurement procedure.....**None**

3.2 Conducted Emissions

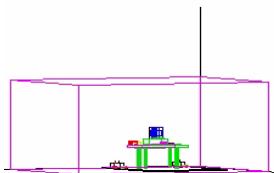


Figure 3-1. Shielded Enclosure Line-Conducted Test Facility

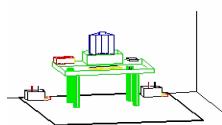


Figure 3-2. Line Conducted Emission Test Set-Up

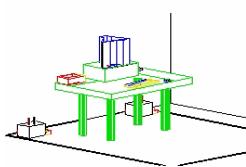


Figure 3-3. Wooden Table & Bonded LISNs

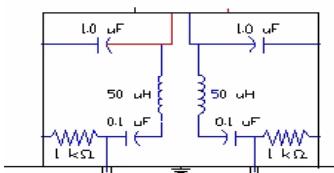


Figure 3-4. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure, manufactured by Ray Proof Series 81 (see *Figure 3-1*). 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 3-2*). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50µH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see *Figure 3-3*). 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 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 3-4*). 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 spectrum analyzer. The detector function was set to CISPR quasi-peak and average mode. The bandwidth of the analyzer 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 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; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in the test setup photographs. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Signal Generator.

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3.3 Radiated Emissions

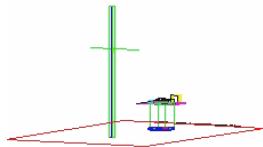


Figure 3-5. 3-Meter Test Site

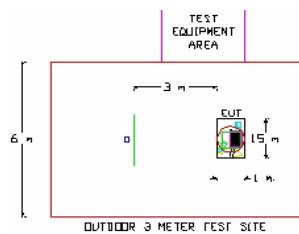


Figure 3-6. Dimensions of Outdoor Test Site

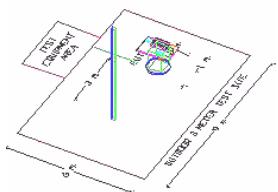


Figure 3-7. Turntable and System Setup

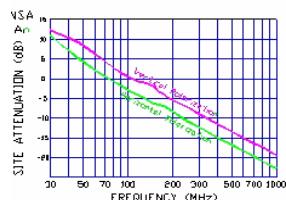


Figure 3-8. Normalized Site Attenuation Curves (H&V)

Preliminary measurements were made indoors at 1-meter using broadband antennas, broadband amplifiers, and spectrum analyzers 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, and turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using a bi-conical antenna and from 200 to 1000 MHz using a 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 antennas (see *Figure 3-5*). The test equipment was placed on a wooden and plastic bench situated on a 1.5m x 2m area adjacent to the measurement area (see *Figure 3-6*). 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 detector function was set to CISPR quasi-peak mode and the bandwidth of the spectrum analyzer was set to 100kHz for frequencies below 1GHz or 1MHz for frequencies above 1GHz. Above 1GHz the detector function was set to 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 3-7*). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and 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 the test setup photographs. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Signal Generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in *Figure 3-8*.

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party 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 the provisions of this section."

- The antennas of the Kyocera Cellular/PCS CDMA Phone with Bluetooth and EvDO are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **Kyocera Cellular/PCS CDMA Phone with Bluetooth and EvDO FCC ID: JOYSCP-6750** unit complies with the requirement of §15.203.

Ch.	Frequency (MHz)
00	2402
:	:
39	2441
:	:
78	2480

Table 4-1. Frequency/ Channel Operations

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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model / Equipment	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	E4407B ESA Spectrum Analyzer	04/29/07	Annual	04/28/08	US39210313
Agilent	E4448A (3Hz-50GHz) Spectrum Analyzer	10/01/07	Annual	10/01/08	US42510244
Agilent	E8257D (250kHz-20GHz) Signal Generator	03/08/07	Biennial	03/08/09	MY45470194
Agilent	HP 11713A Attenuation/Switch Driver	12/13/07	Annual	12/13/08	3439A02645
Agilent	HP 8449B (1-26.5GHz) Pre-Amplifier	12/13/07	Annual	12/12/08	3008A00985
Agilent	HP 8495A (0-70dB) DC-4GHz Attenuator	N/A		N/A	N/A
Agilent	HP 8566B (100Hz-22GHz) Spectrum Analyzer	12/13/07	Annual	12/13/08	3638A08713
Agilent	HP 8591A (9kHz-1.8GHz) Spectrum Analyzer	09/18/07	Annual	09/18/08	3144A02458
Agilent	N4010A Wireless Connectivity Test Set	06/11/07	Annual	06/11/08	GB46170464
EMCO	3116 Horn Antenna (18 - 40GHz)	08/25/05	Triennial	08/24/08	9203-2178
EMCO	3816/2 LISN	08/09/06	Biennial	08/08/08	9707-1077
EMCO	3816/2 LISN	08/09/06	Biennial	08/08/08	9707-1079
EMCO	Dipole Pair	09/20/06	Biennial	09/19/08	23951
EMCO	Model 3115 (1-18GHz) Horn Antenna	09/24/07	Biennial	09/23/09	9704-5182
EMCO	Model 3115 (1-18GHz) Horn Antenna	10/04/07	Biennial	10/03/09	9205-3874
Gigatronics	80701A (0.05-18GHz) Power Sensor	04/20/07	Annual	04/19/08	1835299
Gigatronics	80701A (0.05-18GHz) Power Sensor	06/22/07	Annual	06/21/08	1833460
Gigatronics	8651A (50MHz-18GHz)	04/20/07	Annual	04/19/08	1834052
Gigatronics	8651A Universal Power Meter	06/22/07	Annual	06/21/08	8650319
MiniCircuits	VHF-3100+ High Pass Filter	N/A		N/A	30721
MiniCircuits	VHF-3100+ High Pass Filter	N/A		N/A	30721
Pasternack	PE2209-10 Bidirectional Coupler	N/A		N/A	N/A
Pasternack	PE7000-6 6 dB Attenuator	N/A		N/A	N/A
Rohde & Schwarz	CMU200 Base Station Simulator	05/24/07	Annual	05/23/08	836371/079
Rohde & Schwarz	NRVD Dual Channel Power Meter	12/11/06	Biennial	12/10/08	101695
Rohde & Schwarz	NRVS Power Meter	07/03/07	Biennial	07/02/09	835360/079
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	07/03/07	Biennial	07/02/09	846076/007
SOLAR	8012-50 LISN (2)	11/08/07	Biennial	11/07/09	0310233, 0310234

Table 5-1. Annual Test Equipment Calibration Schedule

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6.0 TEST RESULTS

6.1 Summary

Company Name: Kyocera Corporation
 FCC ID: JOYSCP-6750
 Method/System: Frequency Hopping Spread Spectrum (FHSS)
 Number of Channels: 79

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (Tx)					
15.247(a)(1)(iii)	20dB Bandwidth	< 1 MHz only if using less than 15 non-overlapping channels	CONDUCTED	PASS	Section 6.2
15.247(b)(1)	Transmitter Output Power	< 1 Watt if \geq 75 non-overlapping channels used		PASS	Section 6.3
15.247(a)(1)	Channel Separation	> 2/3 of 20 dB BW for systems with Output Power < 125mW		PASS	Section 6.5
15.247(a)(1)(iii)	Number of Channels	> 15 Channels		PASS	Section 6.7
15.247(a)(1)(iii)	Time of Occupancy	< 0.4 sec in 31.6 sec period		PASS	Section 6.6
15.247(d)	Band Edge / Out-of-Band Emissions	Conducted < 20dBc		PASS	Section 6.4 Section 6.8
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-210 table 3 limits)	RADIATED	PASS	Section 6.9 Section 6.10
15.207	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits or < RSS-Gen table 2 limits	LINE CONDUCTED	PASS	Section 6.11
RECEIVER MODE (Rx) / DIGITAL DEVICE					
15.107	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits or < RSS-Gen table 2 limits	LINE CONDUCTED	PASS	Part 15B Test Report
15.109	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.209 limits or < RSS-Gen limits [Section 6; Table1]	RADIATED (30MHz-1GHz) (1-25 GHz)	PASS	Part 15B Test Report
RF EXPOSURE					
2.1093 / 2.1091	SAR Test	1.6 W/kg (SAR Limit)	SAR	PASS	SAR Report

Table 6-1 Summary of Test Results

FCC ID: JOYSCP-6750		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.2 20dB Bandwidth Measurement

§15.247 (a)(1)(iii)

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. **The maximum permissible 20dB bandwidth is 1 MHz, unless more than 15 non-overlapping channels are employed.**

Frequency [MHz]	Data Rate [Mbps]	Channel No.	20dB Bandwidth Test Results	
			[kHz]	Pass/Fail
2402	1.0	0	951	Pass
2441	1.0	39	938.9	Pass
2480	1.0	78	938.9	Pass

Table 6-2. Conducted 20dB Bandwidth Measurements

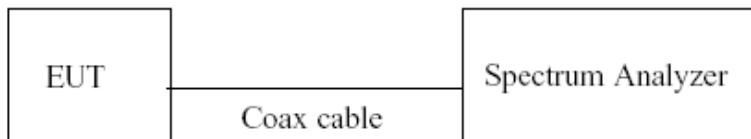
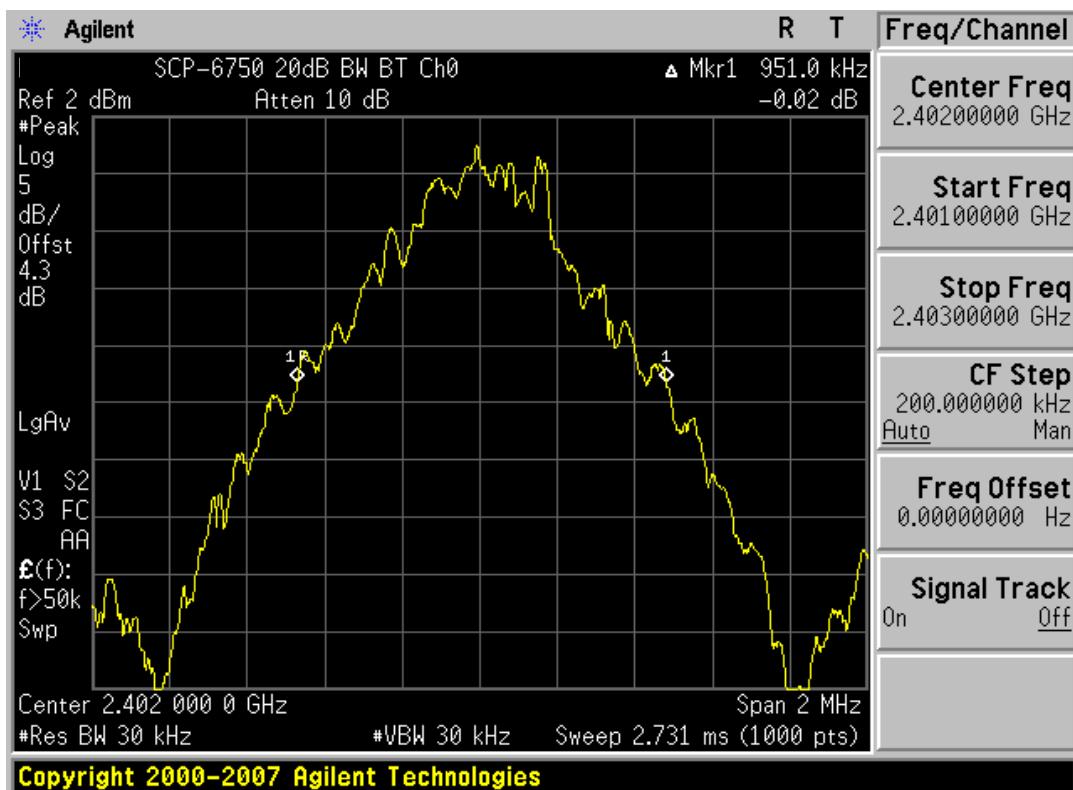


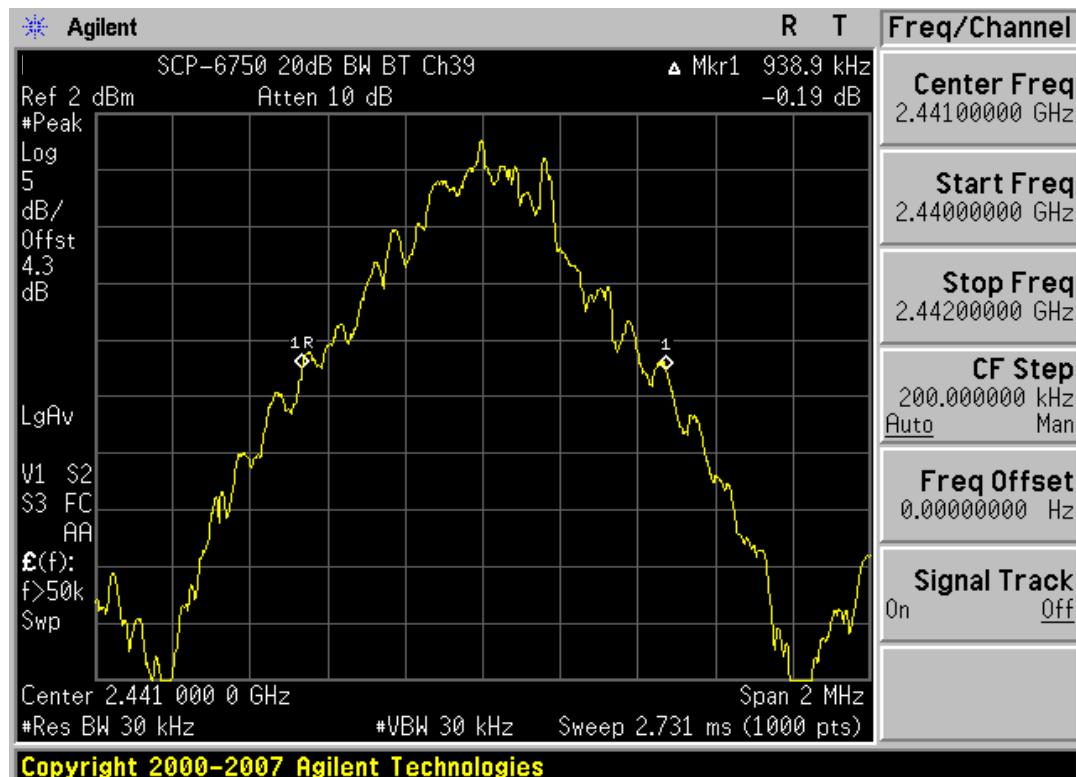
Figure 6-1. Test Instrument & Measurement Setup



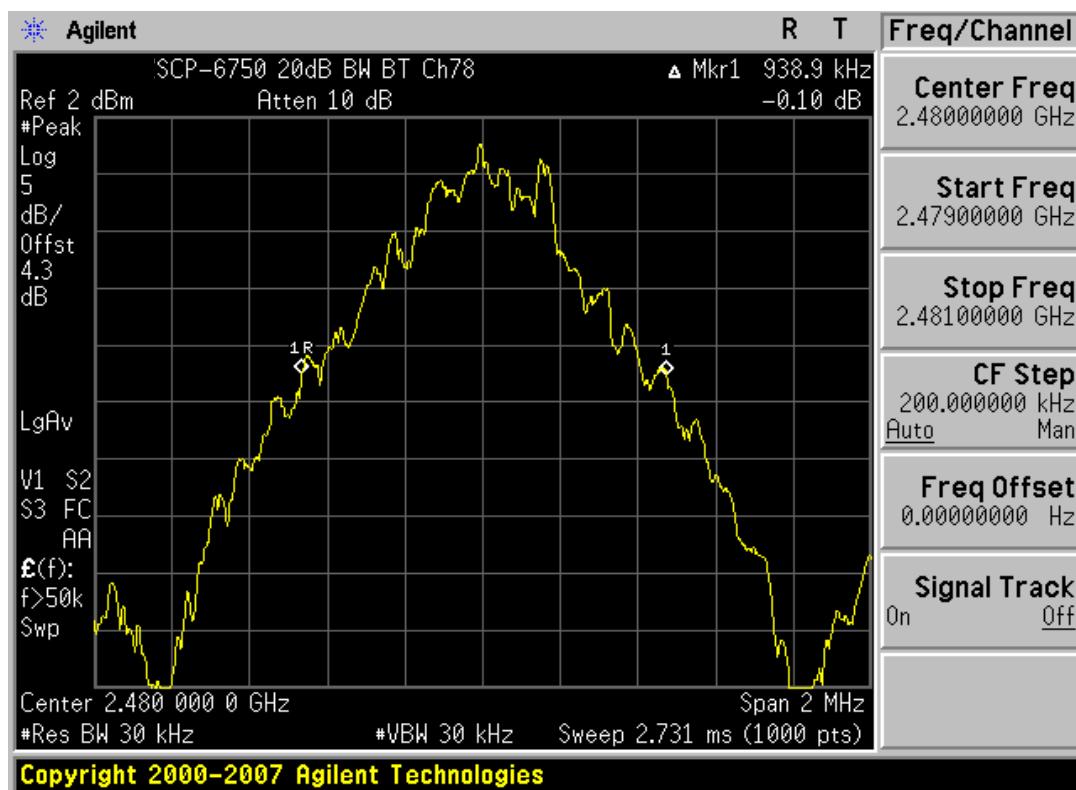
Copyright 2000-2007 Agilent Technologies

Plot 6-1. 20dB Bandwidth Plot (Bluetooth – Ch. 0)

FCC ID: JOYSCP-6750	FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)		
Test Report S/N: 0802150187.JOY	Test Dates: February 21, 2008	EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO	Reviewed by: KYOCERA Quality Manager
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Plot 6-2. 20dB Bandwidth Plot (Bluetooth – Ch. 39)



Plot 6-3. 20dB Bandwidth Plot (Bluetooth – Ch. 78)

FCC ID: JOYSCP-6750		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0802150187.JOY	Test Dates: February 21, 2008	EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO		Page 12 of 28

6.3 Output Power Measurement

§15.247 (b)(1)

Measurement is made while the EUT is operating in non-hopping transmission mode. ***The maximum permissible output power is 1 Watt.***

Note:

This unit was tested with all possible pattern and packet type combinations and the highest power is reported with the unit transmitting with a DH5 packet type and a pattern type set to 10101010.

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Conducted Power [DH1 Packet Type]		Conducted Power [DH3 Packet Type]		Conducted Power [DH5 Packet Type]	
			[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	0	1.84	1.528	1.85	1.531	1.86	1.535
2441	1.0	39	1.38	1.374	1.43	1.390	1.44	1.393
2480	1.0	78	1.64	1.459	1.66	1.466	1.67	1.469

Table 6-3. Conducted Output Power Measurements

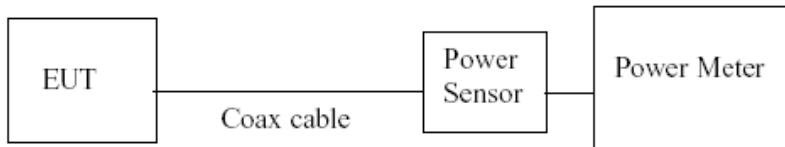


Figure 6-2. Test Instrument & Measurement Setup

FCC ID: JOYSCP-6750		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)			Reviewed by: Quality Manager
Test Report S/N: 0802150187.JOY	Test Dates: February 21, 2008	EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EvDO			Page 13 of 28

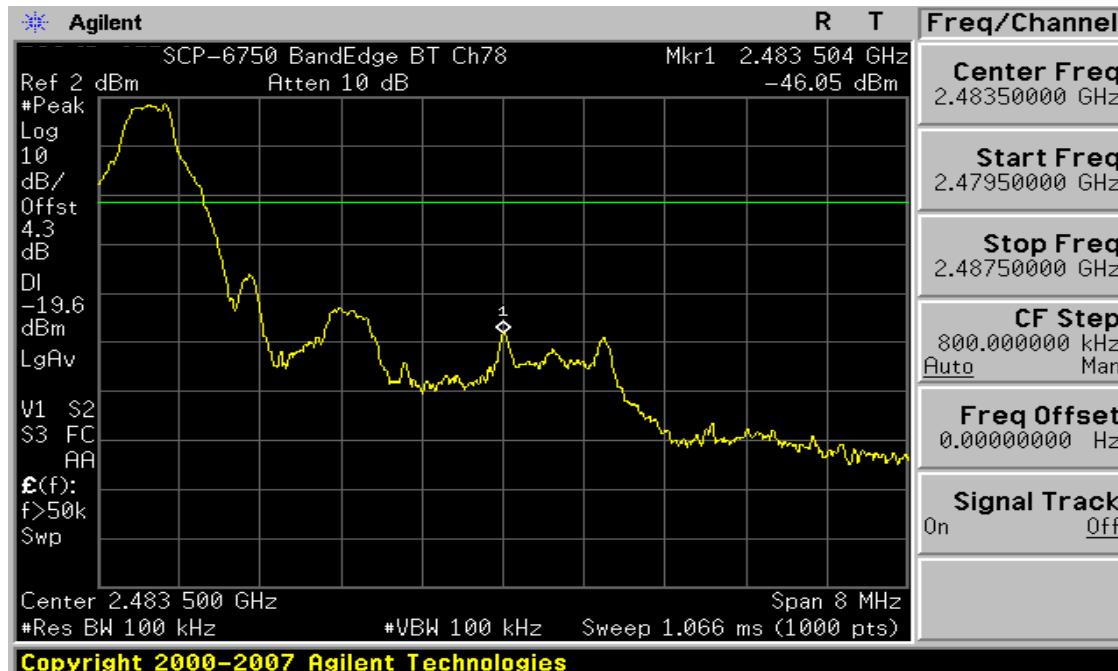
6.4 Band Edge Compliance

§15.247 (d)

Measurement is taken at the highest point located outside of the emission bandwidth. **The maximum permissible emission level is 20 dBc. Any emission lying outside of the emission bandwidth and in a restricted band is subject to a field strength limit specified in Section 15.209 of the Title 47 CFR.**



Plot 6-4. Band Edge Plot (Bluetooth – Ch. 0)



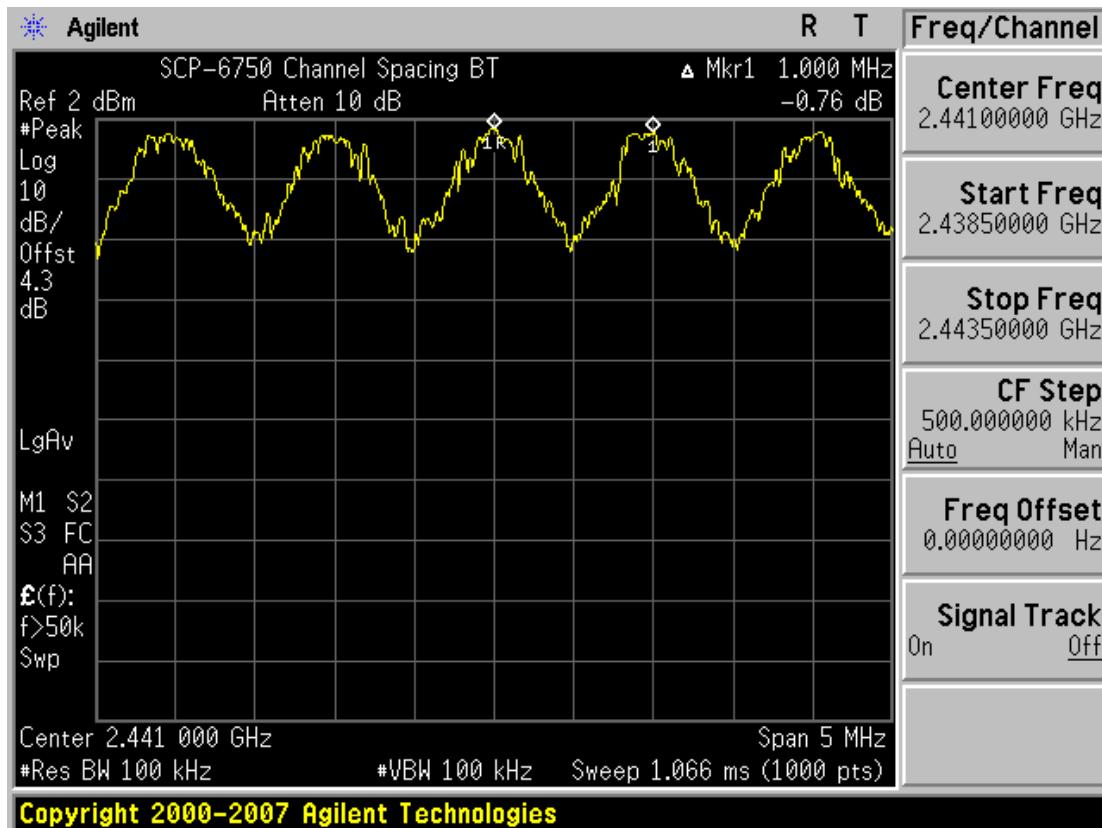
Plot 6-5. Band Edge Plot (Bluetooth – Ch. 78)

FCC ID: JOYSCP-6750	FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)				Reviewed by: Quality Manager
Test Report S/N: 0802150187.JOY	Test Dates: February 21, 2008	EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO			Page 14 of 28

6.5 Carrier Frequency Separation

§15.247 (a)(1)

Measurement is made with EUT operating in hopping mode. **The minimum permissible channel separation for this system is 2/3 the value of the 20dB BW, which is equal to (2/3) x [951 kHz] = 0.634 MHz.**



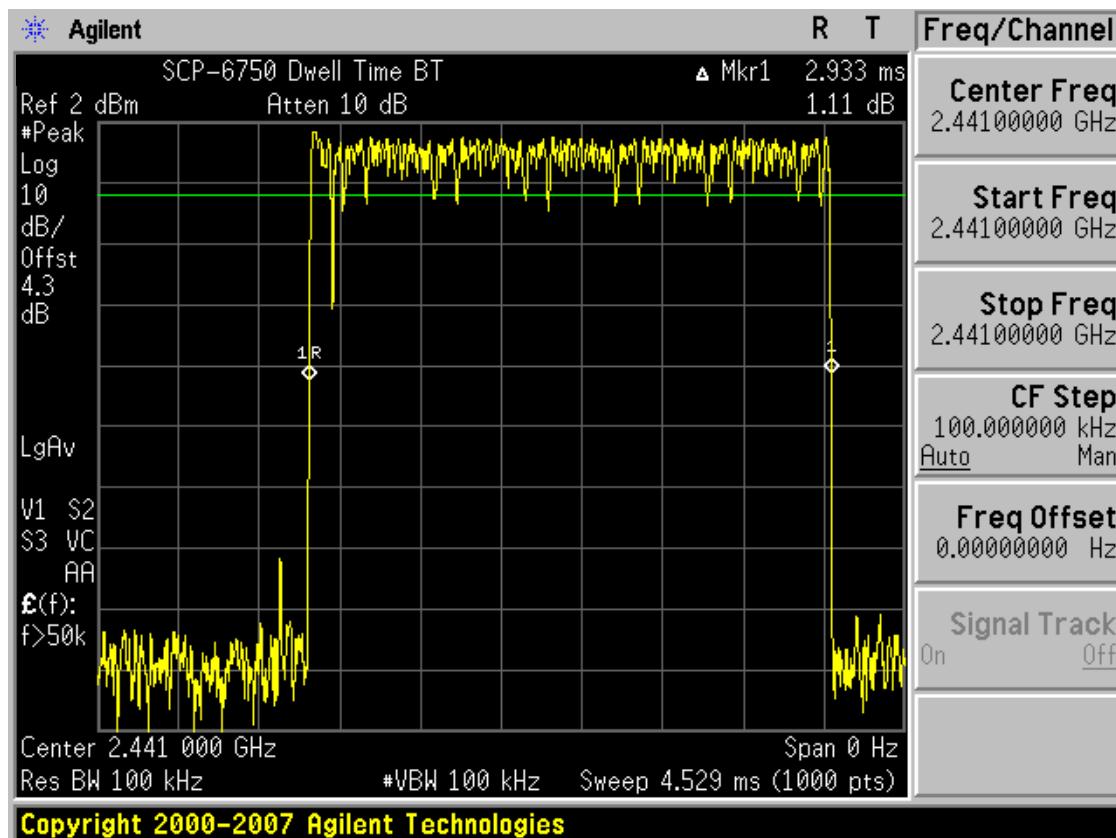
Plot 6-6. Channel Spacing Plot (Bluetooth)

FCC ID: JOYSCP-6750		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)			Reviewed by: Quality Manager
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6.6 Time of Occupancy

§15.247 (a)(1)(iii)

Measurement is made while EUT is operating in hopping mode with the spectrum analyzer set to zero span. **The maximum permissible time of occupancy is 400 ms within a period of 400ms multiplied by the number of hopping channels employed.**



Plot 6-7. Time of Occupancy Plot (Bluetooth)

Sample Calculation

Time of Occupancy for one pulse width = 2ms.

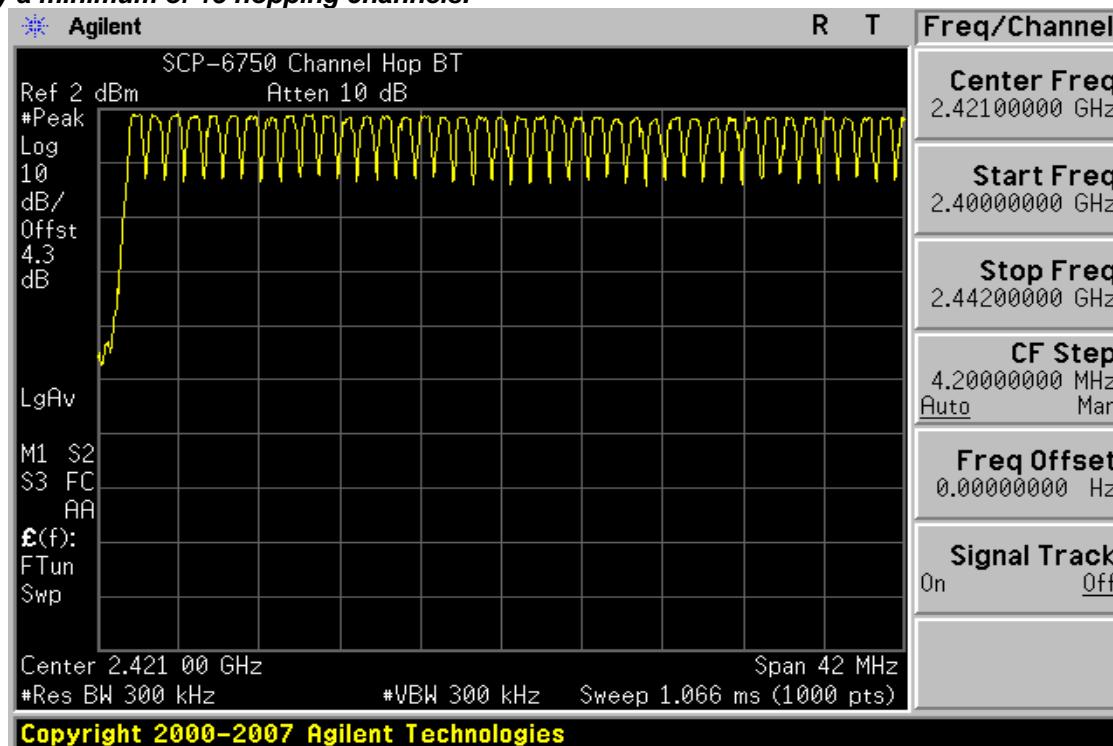
- 400ms x 79 hopping channels = 31.6sec
- 2ms x 79 hopping channels = 158ms (total duration of all channels)
- 31.6sec / 158ms = 200 (number of times one channel transmits within a 31.6sec time frame)
- 200 x 2ms = 400ms (total duration of time that one channel transmits within a 31.6sec time frame)

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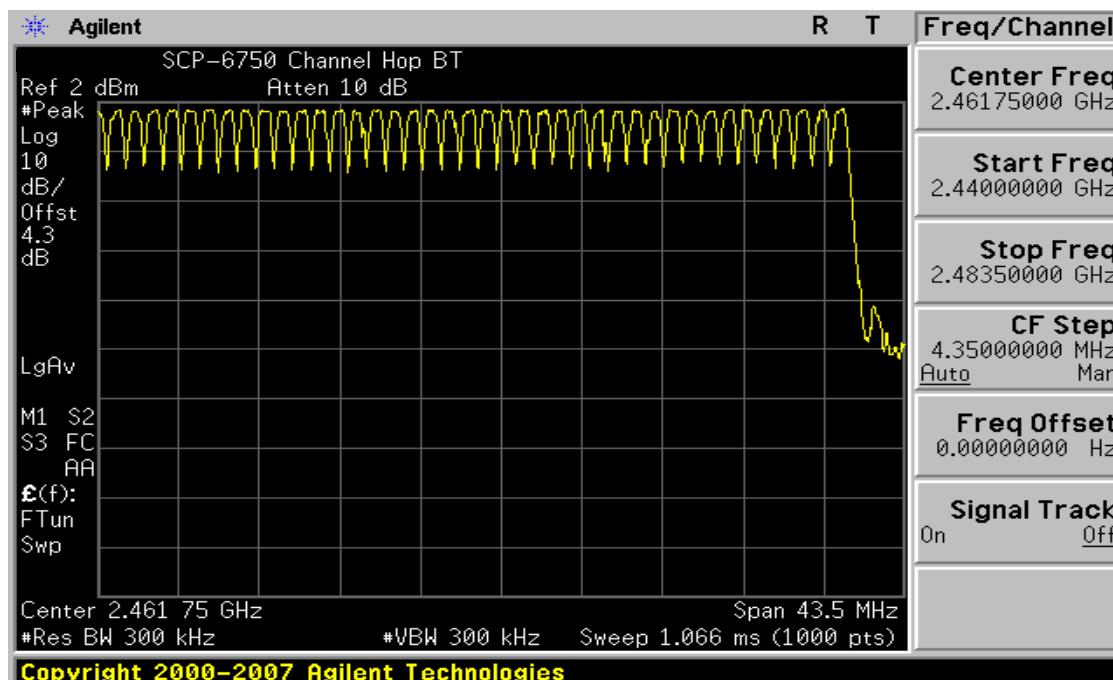
6.7 Number of Hopping Channels

§15.247 (a)(1)(iii)

Measurement is made while EUT is operating in hopping mode. ***This frequency hopping system must employ a minimum of 15 hopping channels.***



Plot 6-8. Low End Spectrum Channel Hopping Plot (Bluetooth)

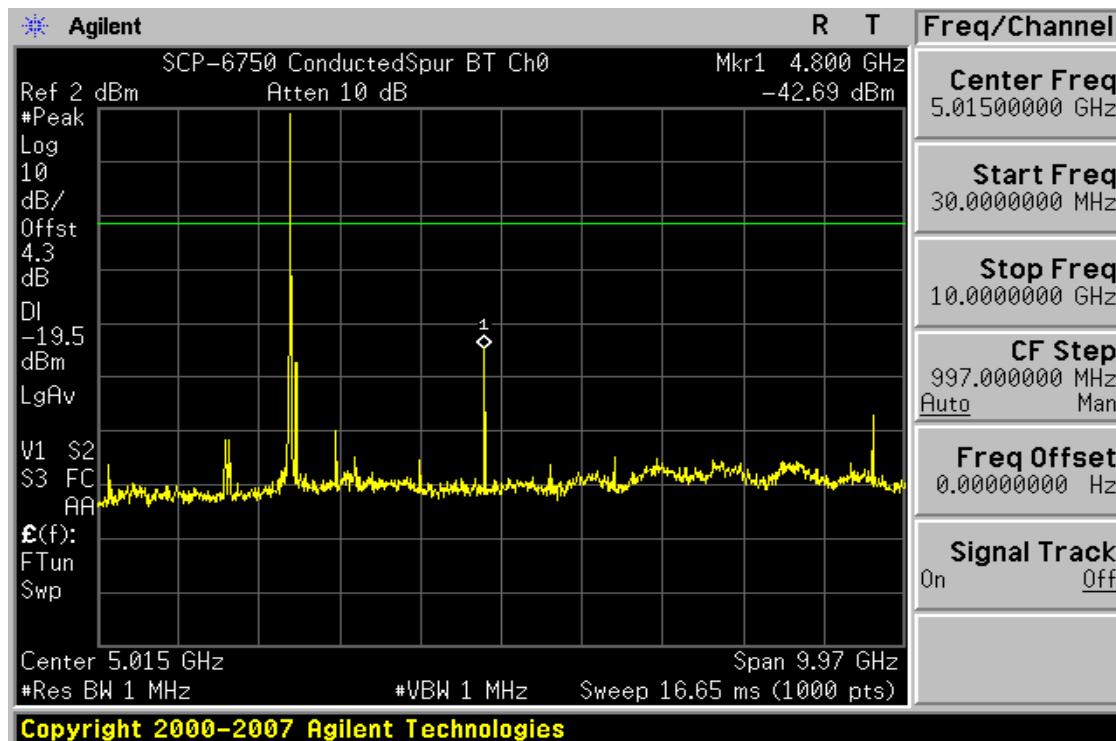


Plot 6-9. High End Spectrum Channel Hopping Plot (Bluetooth)

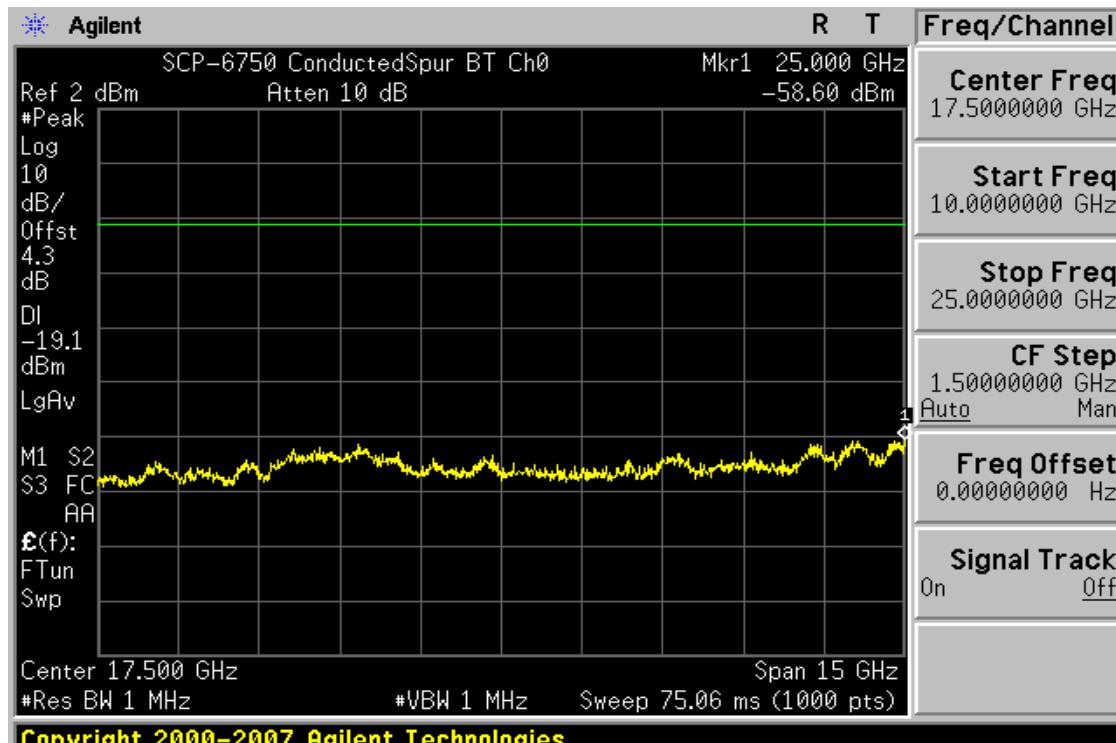
FCC ID: JOYSCP-6750	FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0802150187.JOY	Test Dates: February 21, 2008	EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO	Page 17 of 28

6.8 Conducted Spurious Emissions

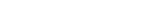
§15.247 (d)

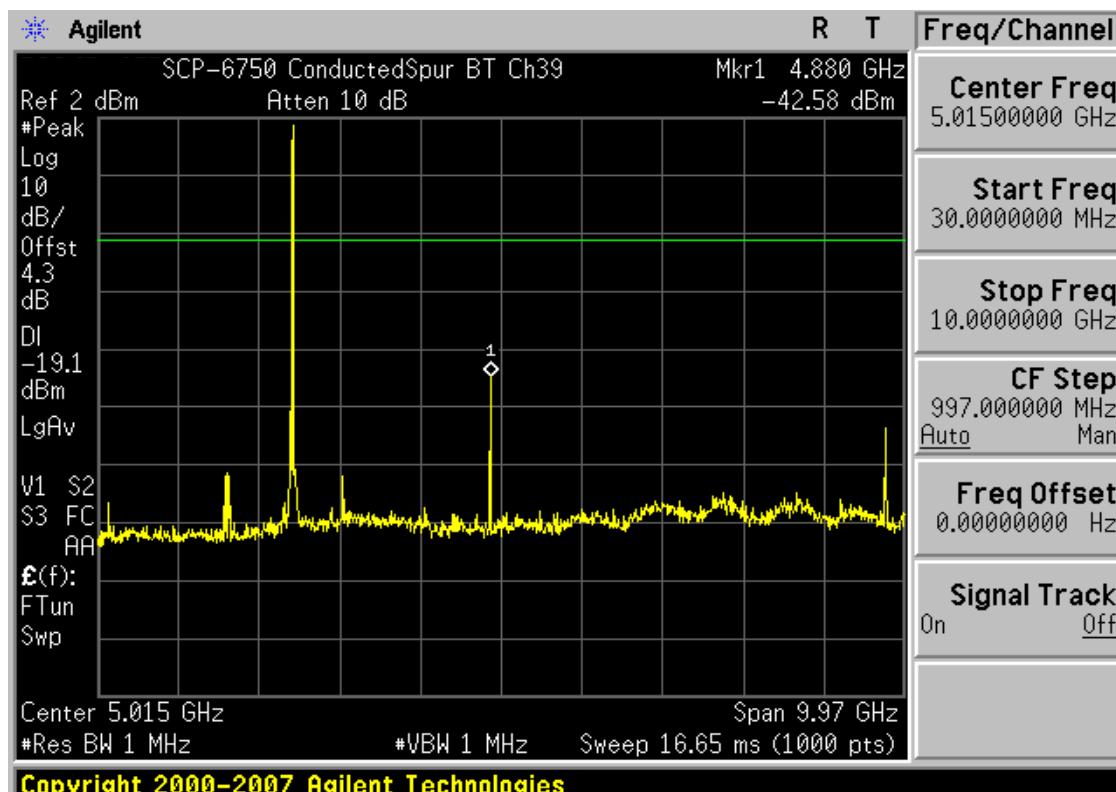


Plot 6-10. Conducted Spurious Plot (Bluetooth – Ch. 0)

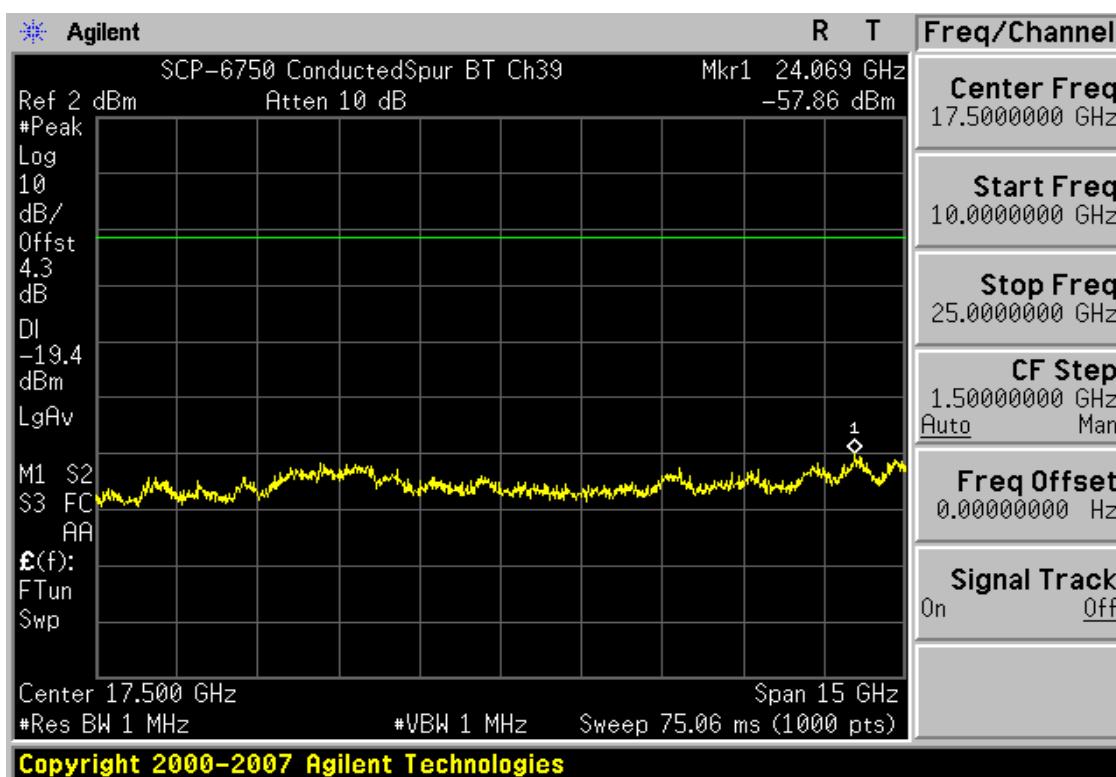


Plot 6-11. Conducted Spurious Plot (Bluetooth – Ch. 0)

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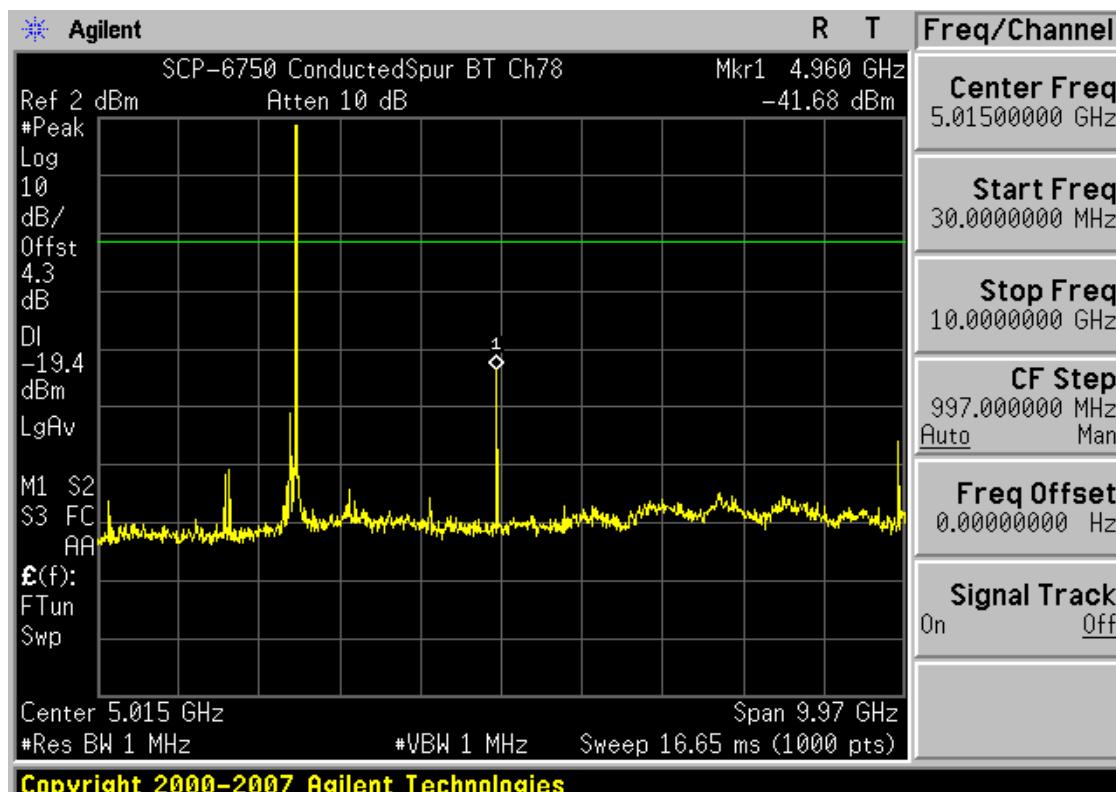


Plot 6-12. Conducted Spurious Plot (Bluetooth – Ch. 39)

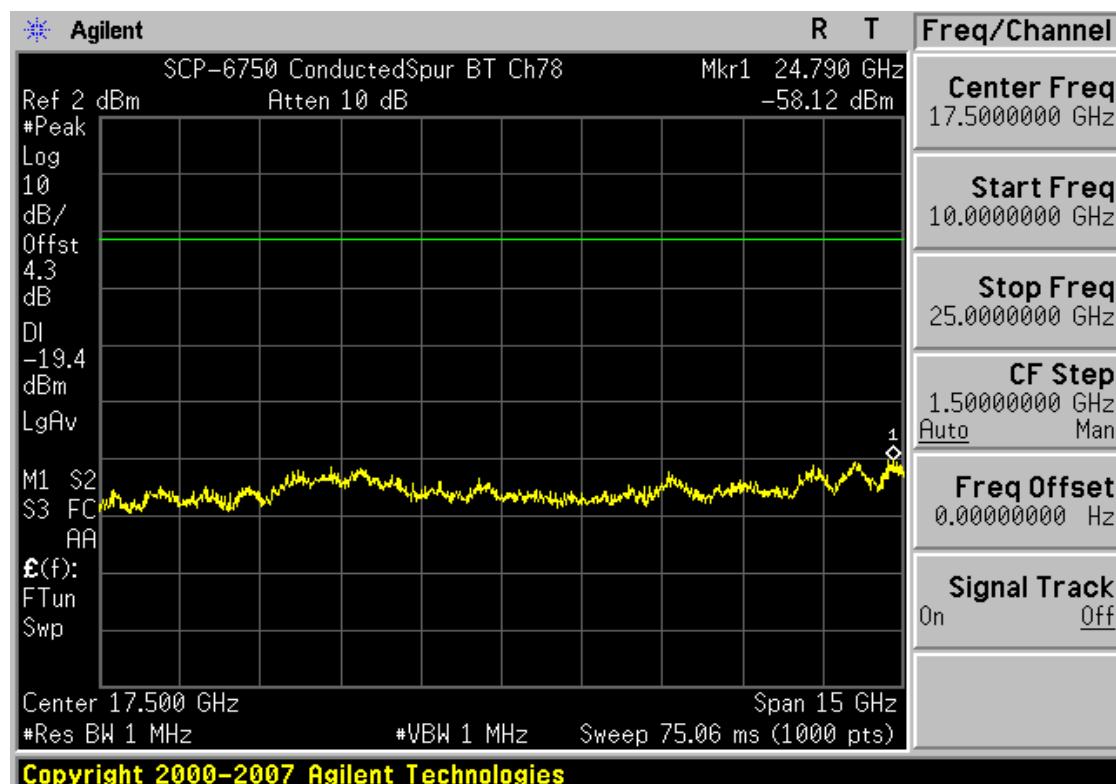


Plot 6-13. Conducted Spurious Plot (Bluetooth – Ch. 39)

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Plot 6-14. Conducted Spurious Plot (Bluetooth – Ch. 78)



Plot 6-15. Conducted Spurious Plot (Bluetooth – Ch. 78)

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6.9 Radiated Spurious Emission Measurements

§15.247 (d) / §15.205 & §15.209

The EUT was tested from 9kHz and up to the 10th 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 out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 6-4 per Section 15.209.

Frequency	Field Strength [μ V/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 6-4. Radiated Limits

Sample Calculation

- Field Strength Level [$\text{dB}_{\mu\text{V/m}}$] = Analyzer Level [dBm] + 107 + AFCL [dB] + Duty Cycle Correction [dB]

Notes:

- AFCL = Antenna Factor [dB] + Cable Loss [dB]
- Duty Cycle Correction = $20\log(\text{worst case dwell time} / 100\text{ms})$ [dB]
 - This value is 0 dB if not applied
 - Maximum applied duty cycle correction is 20dB.

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Radiated Spurious Emission Measurements (Cont'd)

§15.247 (d) / §15.205 & §15.209

Mode: Bluetooth
Measurement Distance: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol [H/V]	AFCL [dB]	Duty Cycle Correction [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4804.00	-101.21	Avg	H	40.98	0.00	46.77	53.98	-7.21
4804.00	-91.21	Peak	H	40.98	0.00	56.77	73.98	-17.21
12010.00	-135.00	Avg	H	52.25	0.00	24.25	53.98	-29.73
12010.00	-125.00	Peak	H	52.25	0.00	34.25	73.98	-39.73

Table 6-5. Radiated Measurements

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and are below the limit shown in Table 6-4.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Spurious Emission Measurements (Cont'd)

§15.247 (d) / §15.205 & §15.209

Mode: Bluetooth

Measurement Distance: 3 Meters

Operating Frequency: 2441MHz

Channel: 39

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol [H/V]	AFCL [dB]	Duty Cycle Correction [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4882.00	-99.88	Avg	H	41.11	0.00	48.23	53.98	-5.75
4882.00	-90.18	Peak	H	41.11	0.00	57.93	73.98	-16.05
7323.00	-135.00	Avg	H	45.97	0.00	17.97	53.98	-36.01
7323.00	-125.00	Peak	H	45.97	0.00	27.97	73.98	-46.01
12205.00	-135.00	Avg	H	52.38	0.00	24.38	53.98	-29.60
12205.00	-125.00	Peak	H	52.38	0.00	34.38	73.98	-39.60

Table 6-6. Radiated Measurements

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and are below the limit shown in Table 6-4.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Spurious Emission Measurements (Cont'd)

§15.247 (d) / §15.205 & §15.209

Mode: Bluetooth

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 78

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol [H/V]	AFCL [dB]	Duty Cycle Correction [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4960.00	-101.45	Avg	H	41.24	0.00	46.79	53.98	-7.19
4960.00	-91.15	Peak	H	41.24	0.00	57.09	73.98	-16.89
7440.00	-135.00	Avg	H	46.24	0.00	18.24	53.98	-35.74
7440.00	-125.00	Peak	H	46.24	0.00	28.24	73.98	-45.74
12400.00	-135.00	Avg	H	52.51	0.00	24.51	53.98	-29.46
12400.00	-125.00	Peak	H	52.51	0.00	34.51	73.98	-39.46

Table 6-7. Radiated Measurements

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and are below the limit shown in Table 6-4.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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6.10 Radiated Restricted Band Edge Measurements

§15.205 / §15.209

Mode: Bluetooth
Measurement Distance: 3 Meters
Operating Frequency: 2480MHz
Channel: 78

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol [H/V]	AFCL [dB]	Duty Cycle Correction [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
2483.67	-95.12	Avg	H	35.55	0.00	47.42	53.98	-6.56
2483.67	-82.02	Peak	H	35.55	0.00	60.52	73.98	-13.46
2490.03	-106.20	Avg	H	34.18	0.00	34.98	53.98	-18.99
2490.03	-94.40	Peak	H	34.18	0.00	46.78	73.98	-27.19
2491.95	-105.09	Avg	H	34.19	0.00	36.10	53.98	-17.88
2491.95	-93.89	Peak	H	34.19	0.00	47.30	73.98	-26.68

Table 6-8. Radiated Restricted Band Edge Measurements at 3-meters

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and are below the limit shown in Table 6-4.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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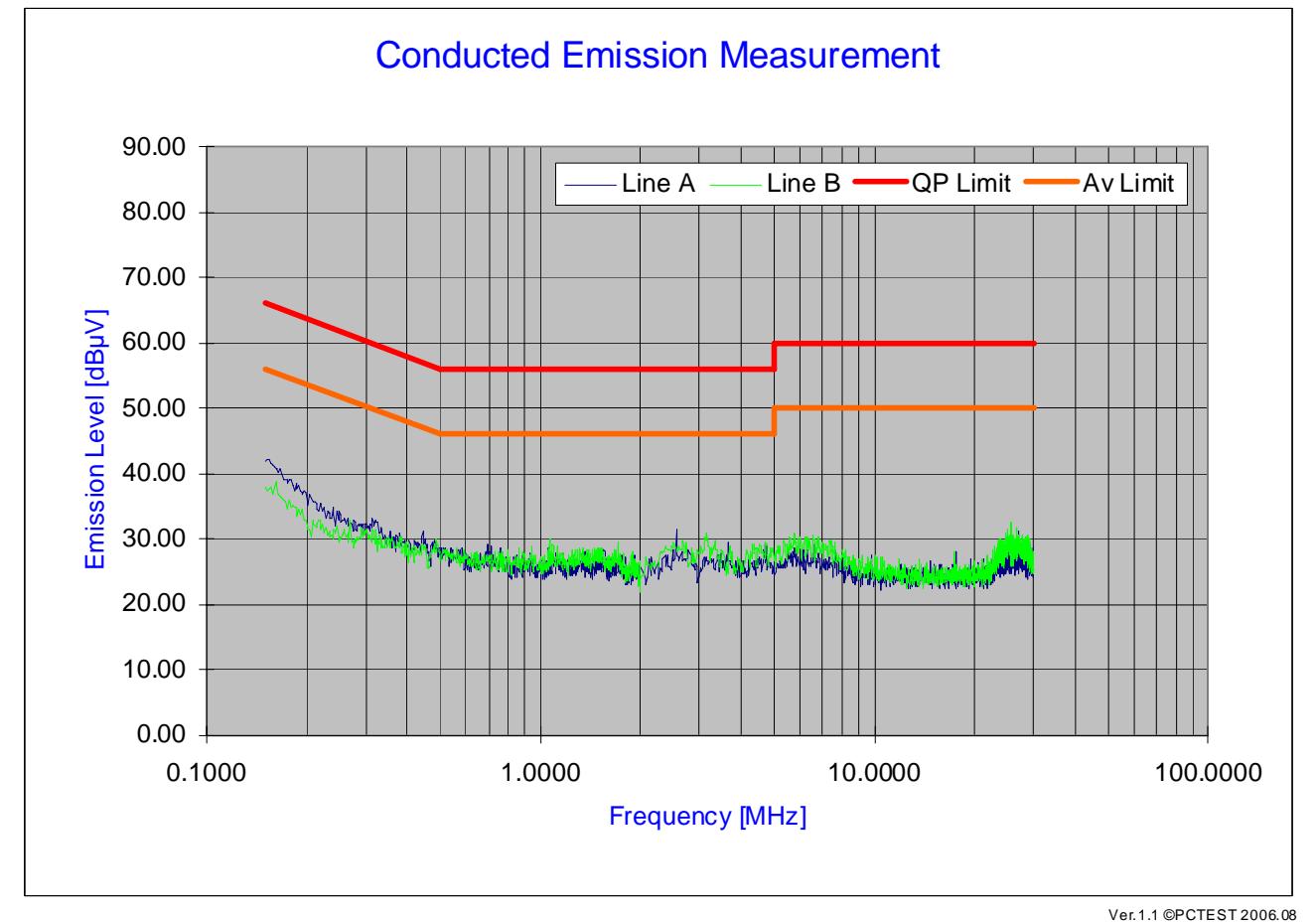
6.11 Line-Conducted Test Data

§15.207

PCTEST Engineering Laboratory Inc.

Company : Kyocera Corporation
 Model Number : SCP-6750
 FCC ID Code : JOYSCP-6750
 Standard : FCC Part 15B class B

Power Source : AC120V/60Hz
 Tested Date : 02/21/2008
 Note : Tested with Bluetooth ON



Plot 6-16. Line Conducted Plot with Bluetooth

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 Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

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Line-Conducted Test Data (Cont'd)

§15.207

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBuV]	Limit [dBuV]	Margin [dB]	Average [dBuV]	Limit [dBuV]	Margin [dB]
1	A	0.150	8.20	47.08	66.00	-18.92	35.19	56.00	-20.81
2	A	0.302	7.57	27.74	60.20	-32.46	21.48	50.20	-28.72
3	A	0.441	7.46	25.59	57.04	-31.45	20.44	47.04	-26.60
4	A	0.476	7.44	25.17	56.40	-31.23	20.15	46.40	-26.25
5	A	0.697	7.38	24.01	56.00	-31.99	19.53	46.00	-26.47
6	A	0.699	7.38	24.02	56.00	-31.98	19.45	46.00	-26.55
7	A	0.759	7.37	23.84	56.00	-32.16	19.35	46.00	-26.65
8	A	2.550	7.42	24.79	56.00	-31.21	19.83	46.00	-26.17
9	A	3.570	7.47	23.86	56.00	-32.14	19.34	46.00	-26.66
10	A	4.661	7.50	24.37	56.00	-31.63	19.22	46.00	-26.78
11	B	0.150	8.20	45.47	66.00	-20.53	34.26	56.00	-21.74
12	B	0.474	7.44	25.80	56.44	-30.64	20.72	46.44	-25.72
13	B	0.854	7.35	23.96	56.00	-32.04	19.36	46.00	-26.64
14	B	0.923	7.34	24.48	56.00	-31.52	19.66	46.00	-26.34
15	B	1.057	7.32	24.06	56.00	-31.94	19.49	46.00	-26.51
16	B	1.688	7.37	24.48	56.00	-31.52	19.64	46.00	-26.36
17	B	3.143	7.45	26.60	56.00	-29.40	20.92	46.00	-25.08
18	B	3.720	7.47	24.53	56.00	-31.47	19.56	46.00	-26.44
19	B	4.372	7.49	25.89	56.00	-30.11	20.18	46.00	-25.82
20	B	4.758	7.50	25.54	56.00	-30.46	20.16	46.00	-25.84

Table 6-9. Line Conducted Data with Bluetooth

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 Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: JOYSCP-6750		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0802150187.JOY	Test Dates: February 21, 2008	EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EvDO		Page 27 of 28

7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Kyocera Cellular/PCS CDMA Phone with Bluetooth and EvDO FCC ID: JOYSCP-6750** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

FCC ID: JOYSCP-6750	 PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 BLUETOOTH TEST REPORT (CERTIFICATION)	 KYOCERA	Reviewed by: Quality Manager
Test Report S/N: 0802150187.JOY	Test Dates: February 21, 2008	EUT Type: Cellular/PCS CDMA Phone with Bluetooth and EvDO		Page 28 of 28