FCC CFR47 PART 15 SUBPART B
ICES-003 ISSUE 4

DECLARATION OF CONFORMITY TEST REPORT

FOR

TRI-BAND CDMA PHONE

MODEL NUMBER: K33BIC-03

REPORT NUMBER: 08U12167-2, REVISION A

ISSUE DATE: OCTOBER 16, 2008

Prepared for
KYOCERA WIRELESS CORP.
10300 CAMPUS POINT DRIVE
SAN DIEGO, CA 92121, U.S.A.

Prepared by
COMPLIANCE CERTIFICATION SERVICES
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
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FAX: (510) 661-0888

NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	10/13/08	Initial Issue	T. Chan
B	10/16/08	Added ICES-003 ISSUE 4	T. Chan

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: KYOCERA WIRELESS CORP.
10300 CAMPUS POINT DRIVE
SAN DIEGO, CA 92121 U.S.A.

EUT DESCRIPTION: TRI BAND CDMA PHONE

MODEL: K33BIC-03

SERIAL NUMBER: FF10000001711

DATE TESTED: OCTOBER 10 – 13, 2008

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC PART 15 SUBPART B	Pass
ICES-003 ISSUE 4	

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By: Tested By:

THUN CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

DOUGLAS ANDERSON
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003 as referenced by ICES-003 Issue 4.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Tri Band CDMA cell phone.

The radio module is manufactured by Kyocera Wireless.

5.2. PRELIMINARY TEST CONFIGURATIONS

The following configurations were investigated during preliminary testing:

EUT Configuration	Description
Configuration 1	Cell phone / Travel Charger / Headset
Configuration 2	Cell phone / Headset / Notebook PC / Printer / Modem

5.3. MODE(S) OF OPERATION

Mode	Description
Charging	EUT in Configuration 1 charging battery from AC mains.
Normal	EUT in Configuration 2 powered “On” and connected to PC via USB cable.

5.4. MODIFICATIONS

No modifications were made during testing.

5.5. DETAILS OF TESTED SYSTEM

SUPPORT EQUIPMENT & PERIPHERALS

CONFIGURATION 1:

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Travel Charger	Kyocera	TXTVL10127	02224	DoC
Headset	Made in China	NA	NA	NA

CONFIGURATION 2:

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Travel Charger	Kyocera	TXTVL10127	02224	DoC
Notebook PC	HP	Compaq nx5000	CNU4180X4R	DoC
AC Adapter 1	HP	SU10095-1003	F3-0404082195D	DoC
Printer	Microline 186	D22300A	AC5C018494A0	DoC
Modem	Hayes	4714US	A02247143261	BFJUSA-31719-M5-E
AC Adapter 2	US Robotics	TEAC-41-091000U	01910	DoC
Headset	Made in China	NA	NA	NA

I/O CABLES

CONFIGURATION 1:

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC Power	1	Mini-Jack	Un-Shielded	2m	
2	USB	1	USB	Shielded	1m	

CONFIGURATION 2:

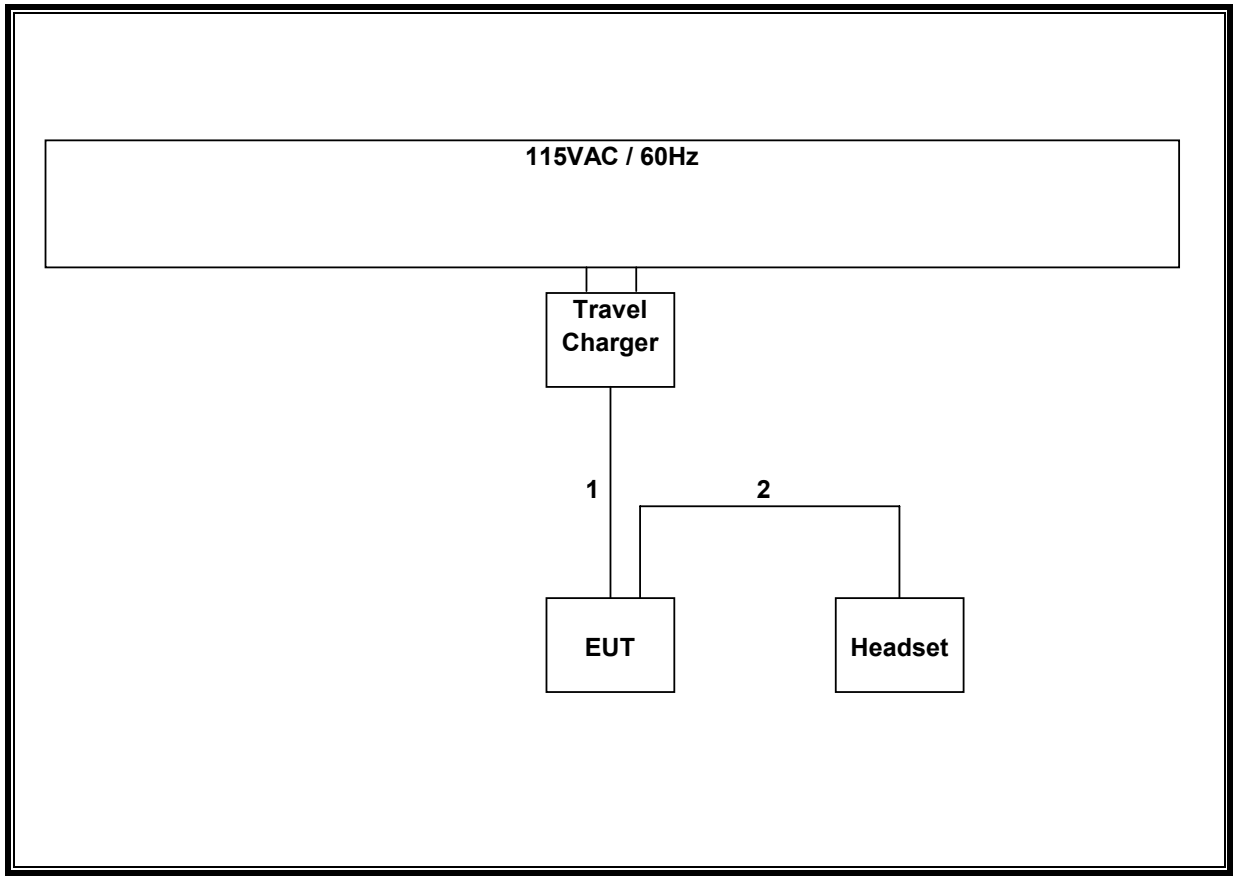
I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC Power	2	3-Prong	Un-Shielded	1.5m	
2	DC Power	2	Mini-Jack	Un-Shielded	2m	
3	Audio	1	Mini-Jack	Un-Shielded	1.25m	
4	USB	1	USB	Shielded	1m	
5	Parallel	1	DB-25	Shielded	1.5m	
6	RS-232	1	DB-9	Shielded	1.25m	

TEST SETUP

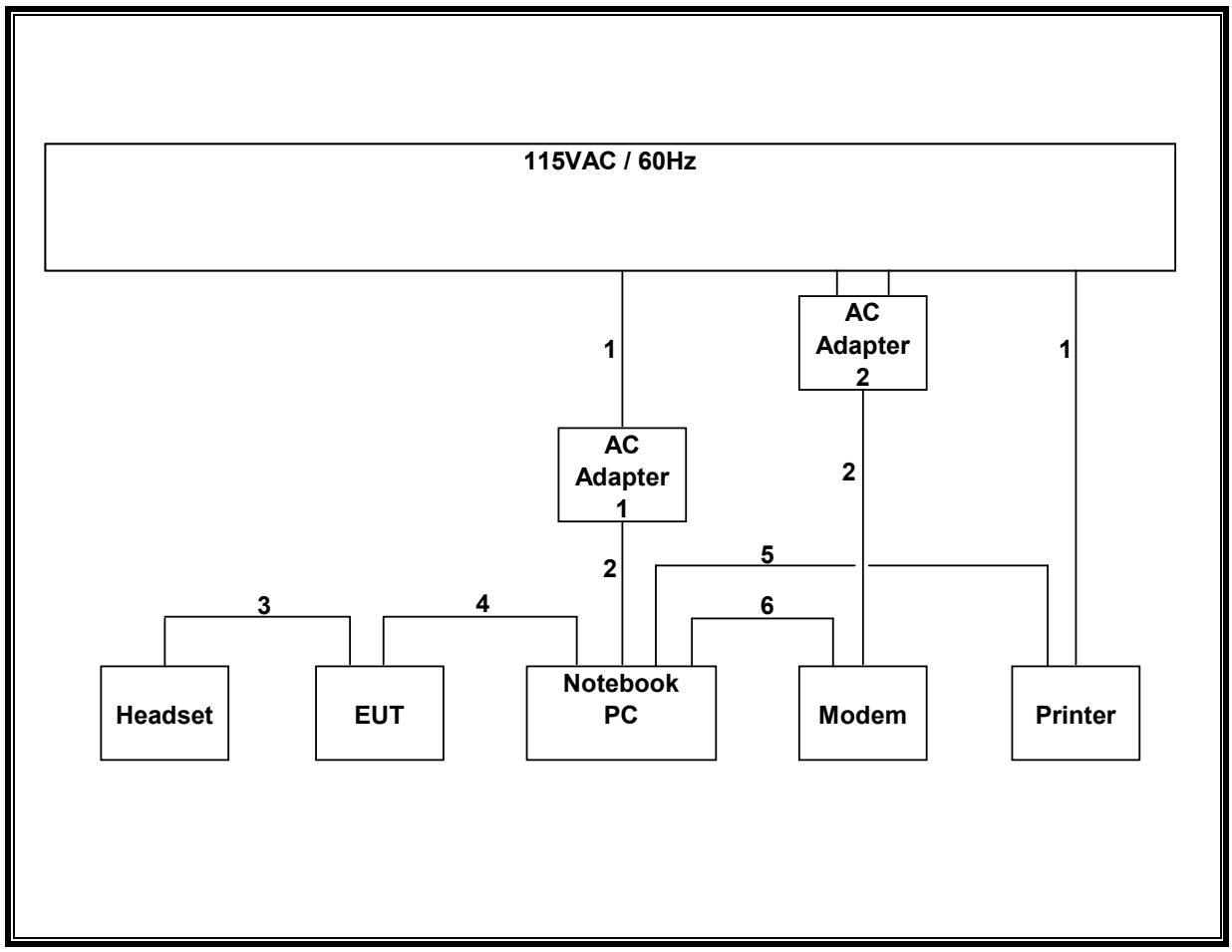
The EUT is installed in typical configurations.

TEST SETUP DIAGRAM

CONFIGURATION 1



CONFIGURATION 2



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Asset**	**Cal Due**
EMI Receiver, 2.9 GHz	Agilent / HP	8542E	C00957	09/19/09
RF Filter Section, 2.9 GHz	Agilent / HP	85420E	C00958	09/19/09
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	02/11/09
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	03/31/09
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	03/03/09
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	12/27/08
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	02/11/09
Preamp, 1000MHz	Sonoma	310N	N02891	03/31/09
EMI Receiver, 2.9 GHz	Agilent / HP	8542E	C00957	09/19/09
RF Filter Section, 2.9 GHz	Agilent / HP	85420E	C00958	09/19/09
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	09/19/09
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/25/08
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	N02481	10/25/08

7. APPLICABLE LIMITS AND TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

The highest clock frequency generated or used in the EUT is 1900 MHz, therefore the frequency range was investigated from 30 MHz to 9500 MHz.

LIMIT

§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dBµV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54
Note: The lower limit shall apply at the transition frequency.	

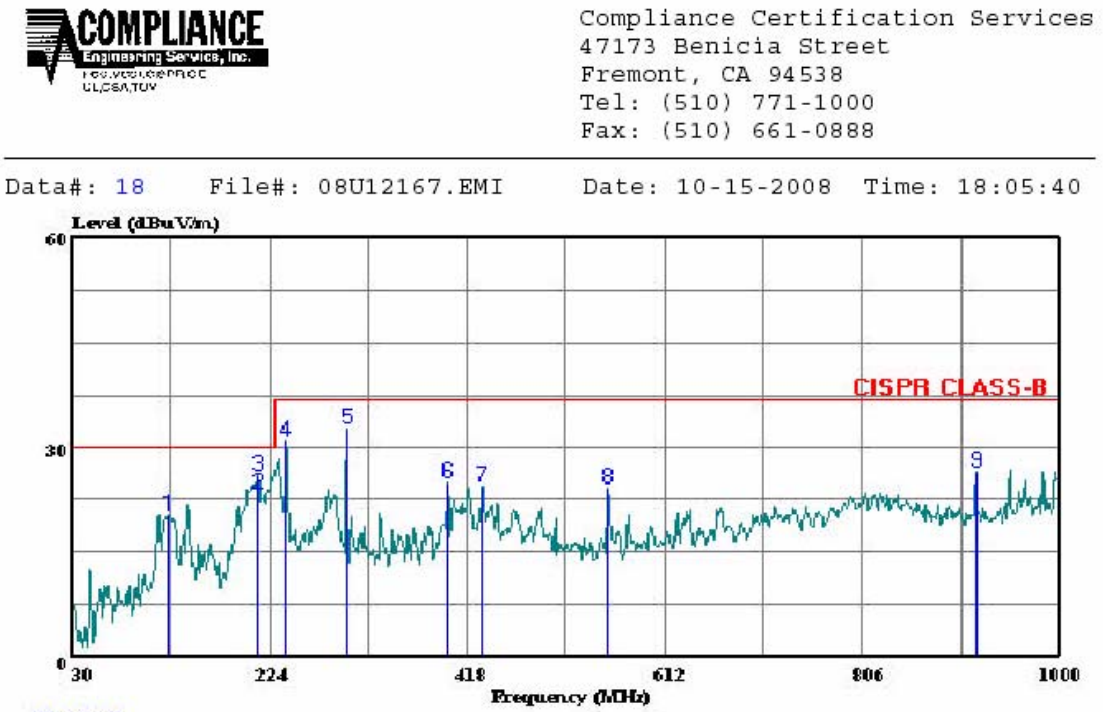
RESULTS

7.1.1. RADIATED EMISSIONS BELOW 1 GHz

EUT WITH SUPPORT EQUIPMENT

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT

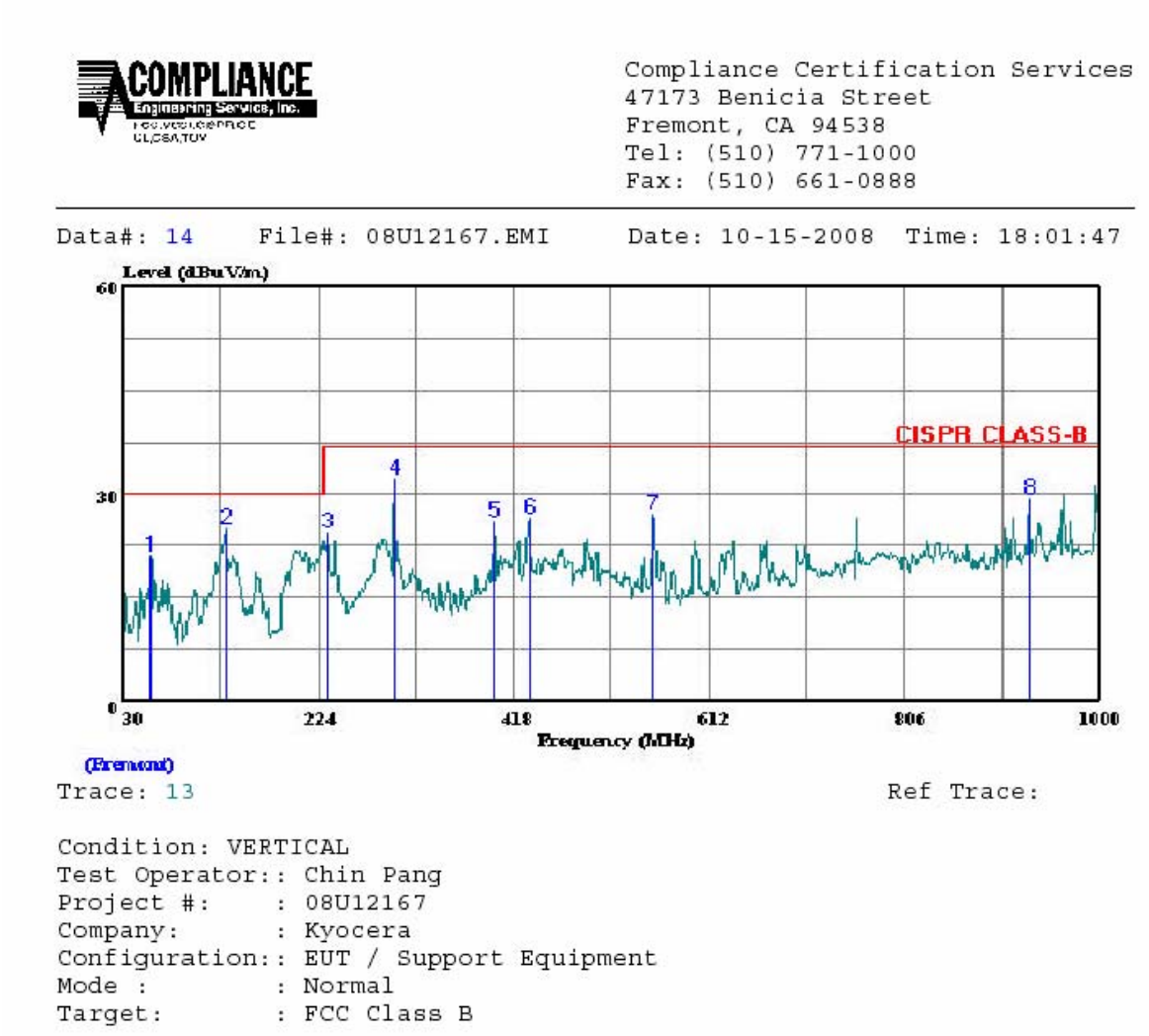


HORIZONTAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	125.060	36.83	-16.51	20.33	30.00	-9.67	Peak
2	212.360	39.85	-16.44	23.41	30.00	-6.59	QP
3	212.360	42.50	-16.44	26.06	30.00	-3.94	Peak
4	239.520	47.67	-16.75	30.92	37.00	-6.08	Peak
5	299.660	47.17	-14.53	32.64	37.00	-4.36	Peak
6	399.570	36.50	-11.66	24.84	37.00	-12.16	Peak
7	432.550	35.00	-10.58	24.42	37.00	-12.58	Peak
8	556.710	32.00	-7.95	24.05	37.00	-12.95	Peak
9	917.550	27.33	-0.95	26.38	37.00	-10.62	Peak

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



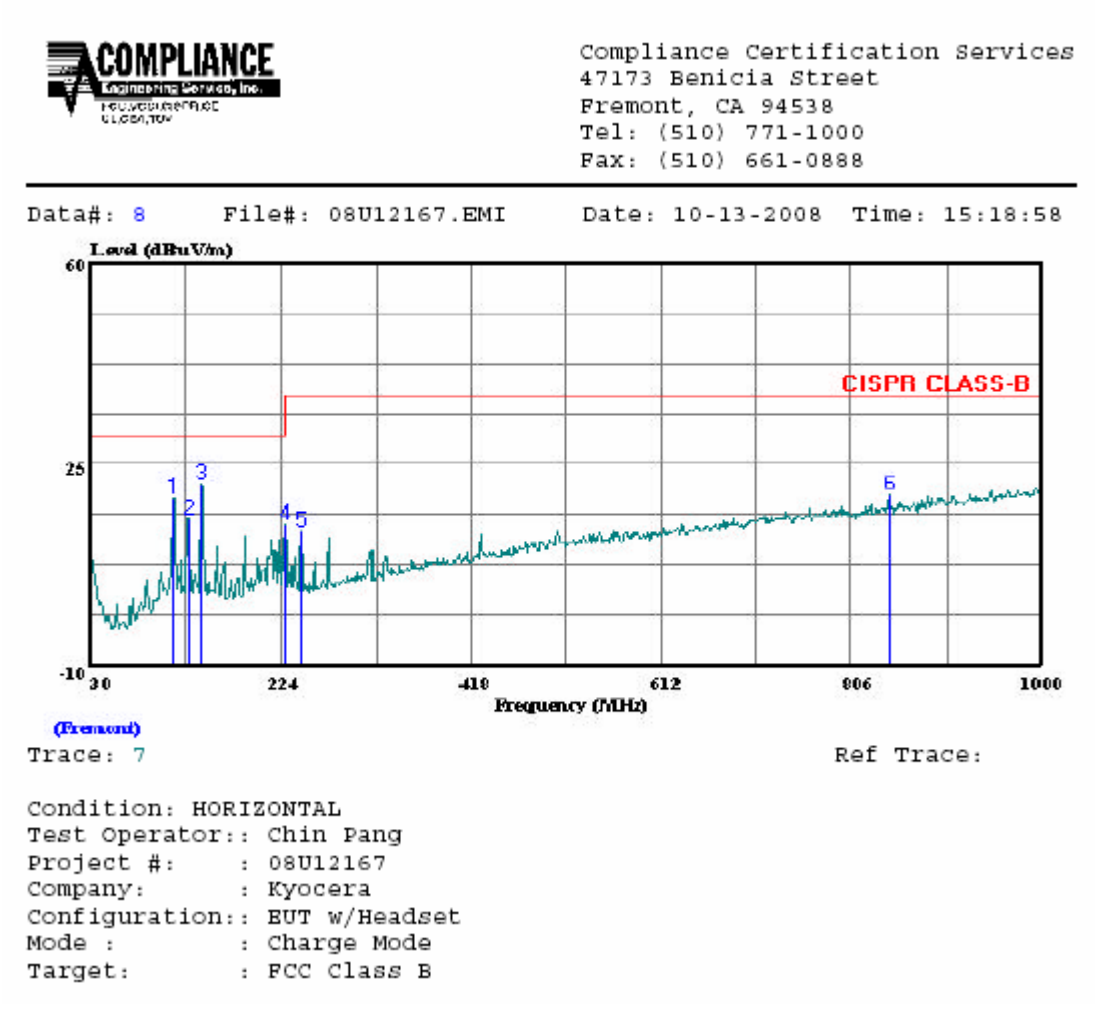
VERTICAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	57.160	44.15	-23.11	21.03	30.00	-8.97	Peak
2	131.850	41.83	-16.79	25.05	30.00	-4.95	Peak
3	233.700	41.17	-16.63	24.54	37.00	-12.46	Peak
4	299.660	46.83	-14.53	32.30	37.00	-4.70	Peak
5	399.570	37.67	-11.66	26.01	37.00	-10.99	Peak
6	433.520	37.17	-10.59	26.58	37.00	-10.42	Peak
7	556.710	35.00	-7.95	27.05	37.00	-9.95	Peak
8	930.160	29.83	-0.58	29.26	37.00	-7.74	Peak

EUT AND AC ADAPTER CHARGER

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT

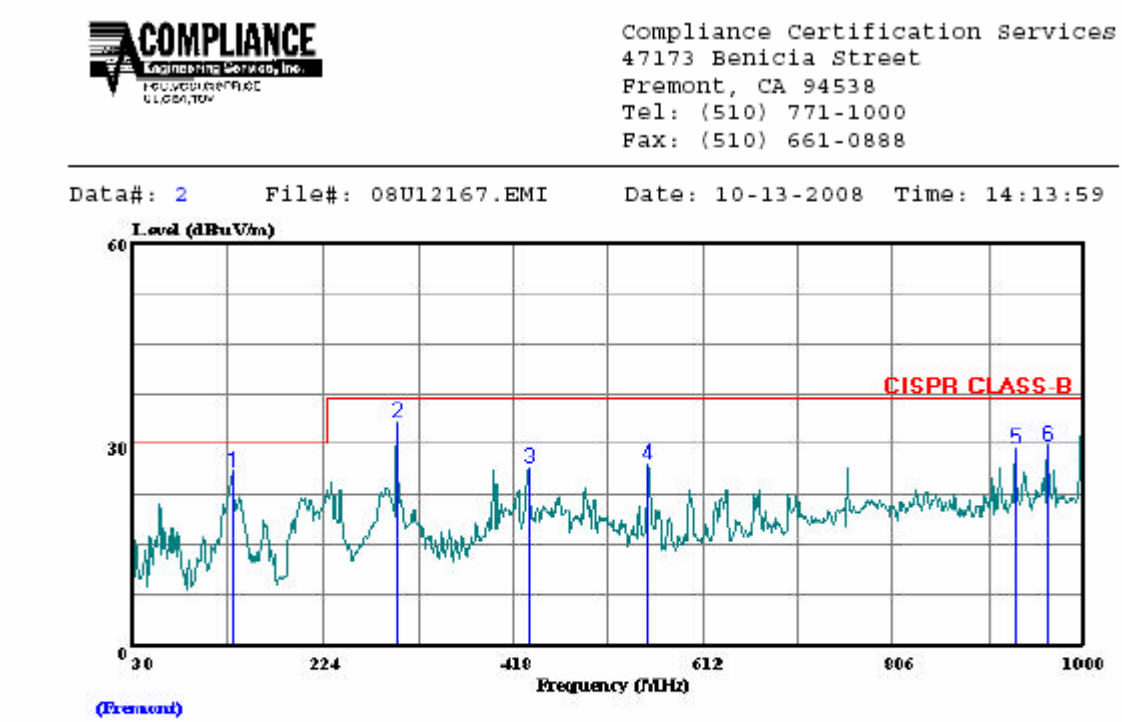


HORIZONTAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	114.390	36.08	-17.11	18.98	30.00	-11.02	Peak
2	129.910	32.17	-16.71	15.46	30.00	-14.54	Peak
3	142.520	38.50	-17.07	21.43	30.00	-8.57	Peak
4	229.820	31.17	-16.64	14.53	30.00	-15.47	Peak
5	243.400	30.17	-16.77	13.40	37.00	-23.60	Peak
6	844.800	22.17	-2.59	19.58	37.00	-17.42	Peak

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



VERTICAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	131.850	42.83	-16.79	26.05	30.00	-3.95	Peak
2	299.660	47.83	-14.53	33.30	37.00	-3.70	Peak
3	433.520	37.17	-10.59	26.58	37.00	-10.42	Peak
4	556.710	35.00	-7.95	27.05	37.00	-9.95	Peak
5	930.160	29.83	-0.58	29.26	37.00	-7.74	Peak
6	964.110	29.83	0.09	29.92	37.00	-7.08	Peak

7.1.2. RADIATED EMISSIONS ABOVE 1 GHz

EUT WITH SUPPORT EQUIPMENT

SPURIOUS EMISSIONS 1 TO 10GHz (WORST-CASE CONFIGURATION, HORIZONTAL)

High Frequency Measurement
Compliance Certification Services, Fremont 5m Chamber

Company: Kyocera
Project #: 08U12167
Date: 10/13/08
Test Engineer: Chin Pang
Configuration: EUT and Support Equipment
Mode: Normal

Test Equipment:

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T119; S/N: 29301 @3m	T145 Agilent 3008A0056			FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter
		B-5m Chamber		

Peak Measurements
RBW=VBW=1MHz
Average Measurements
RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
1.330	3.0	47.2	33.6	29.0	3.7	-35.9	0.0	0.0	44.0	30.4	74	54	-30.0	-23.6	V
1.828	3.0	49.5	31.0	30.6	4.3	-35.5	0.0	0.0	48.9	30.4	74	54	-25.1	-23.6	V
1.448	3.0	47.9	32.0	29.4	3.8	-35.8	0.0	0.0	45.3	29.4	74	54	-28.7	-24.6	H
1.832	3.0	51.0	30.2	30.7	4.3	-35.5	0.0	0.0	50.5	29.7	74	54	-23.5	-24.3	H

Rev. 4.12.7
Note: No other emissions were detected above the system noise floor.

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

EUT WITH AC CHARGER

NOTE: No emissions were found within above 1GHz of 20dB below the system noise floor.

7.2. AC MAINS LINE CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4

LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Notes: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

RESULTS

:

CONFIGURATION 1

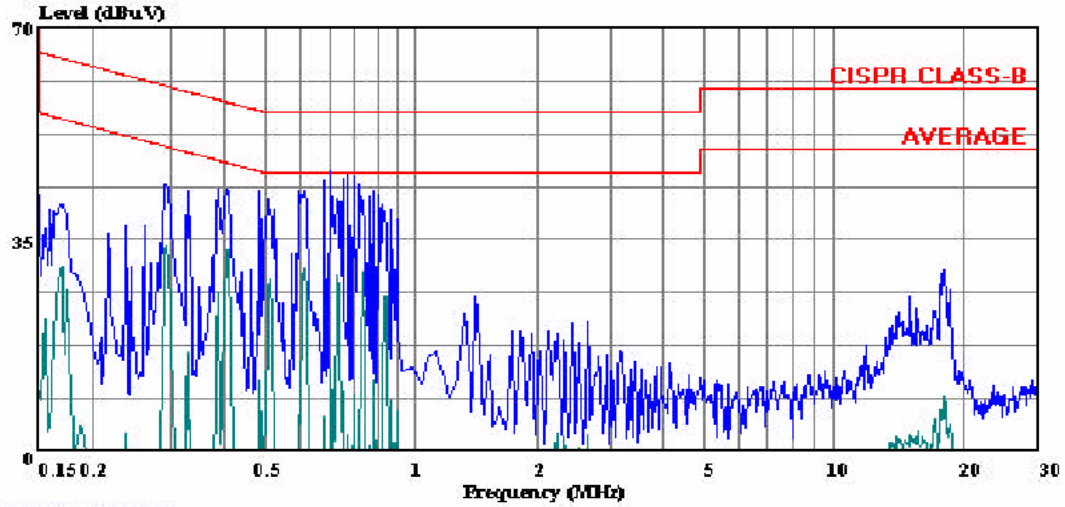
6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.71	46.49	--	13.61	0.00	56.00	46.00	-9.51	-32.39	L1
0.75	45.14	--	10.04	0.00	56.00	46.00	-10.86	-35.96	L1
0.77	45.85	--	2.61	0.00	56.00	46.00	-10.15	-43.39	L1
0.77	47.57	--	1.08	0.00	56.00	46.00	-8.43	-44.92	L2
0.80	47.45	--	2.19	0.00	56.00	46.00	-8.55	-43.81	L2
0.82	47.13	--	6.37	0.00	56.00	46.00	-8.87	-39.63	L2
6 Worst Data									

LINE 1 RESULTS

Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 7 File#: 08U12167 LC.EMI Date: 10-10-2008 Time: 09:53:32



Trace: 5 Ref Trace:

Condition: CISPR CLASS-B
Test Operator:: Doug Anderson
Project #: : 08U12167
Company: : Kyocera Wireless
Configuration:: EUT w/Travel Charger and Headset
: (Configuration 1)
Mode: : Charging
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: L1: Peak (Blue); Average (Green)

LINE 2 RESULTS

Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

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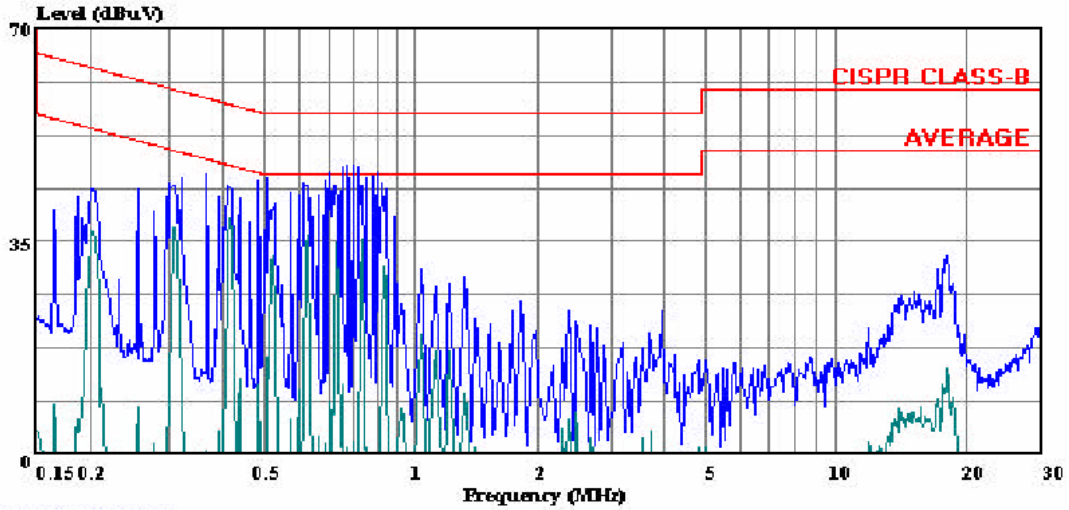

(Line Conduction)

Trace: 12 Ref Trace:

Condition: CISPR CLASS-B
Test Operator:: Doug Anderson
Project #: : 08U12167
Company: : Kyocera Wireless
Configuration:: EUT w/Travel Charger and Headset
: (Configuration 1)
Mode: : Charging
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: L2: Peak (Blue); Average (Green)

CONFIGURATION 2

6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.15	55.28	--	20.70	0.00	66.00	56.00	-10.72	-35.30	L1
3.58	42.29	--	36.72	0.00	56.00	46.00	-13.71	-9.28	L1
3.68	44.05	--	36.79	0.00	56.00	46.00	-11.95	-9.21	L1
0.15	54.50	--	18.00	0.00	66.00	56.00	-11.50	-38.00	L2
3.47	42.34	--	33.33	0.00	56.00	46.00	-13.66	-12.67	L2
3.68	43.89	--	35.62	0.00	56.00	46.00	-12.11	-10.38	L2
6 Worst Data									

LINE 1 RESULTS

Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

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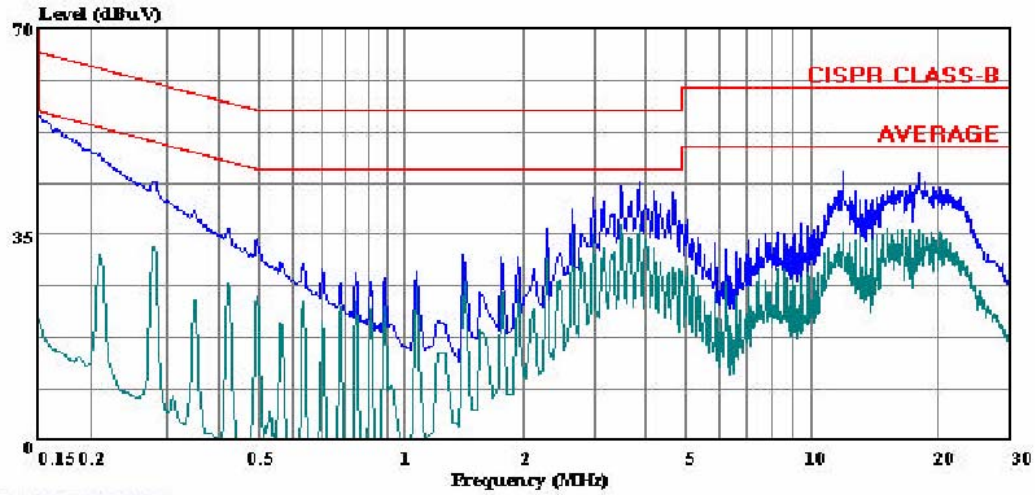

(Line Conduction)

Trace: 26 Ref Trace:

Condition: CISPR CLASS-B
Test Operator:: Doug Anderson
Project #: : 08U12167
Company: : Kyocera Wireless
Configuration:: EUT w/Headset, PC, Printer, Modem
: (Configuration 2)
Mode: : Normal
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: L1: Peak (Blue); Average (Green)

LINE 2 RESULTS

Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

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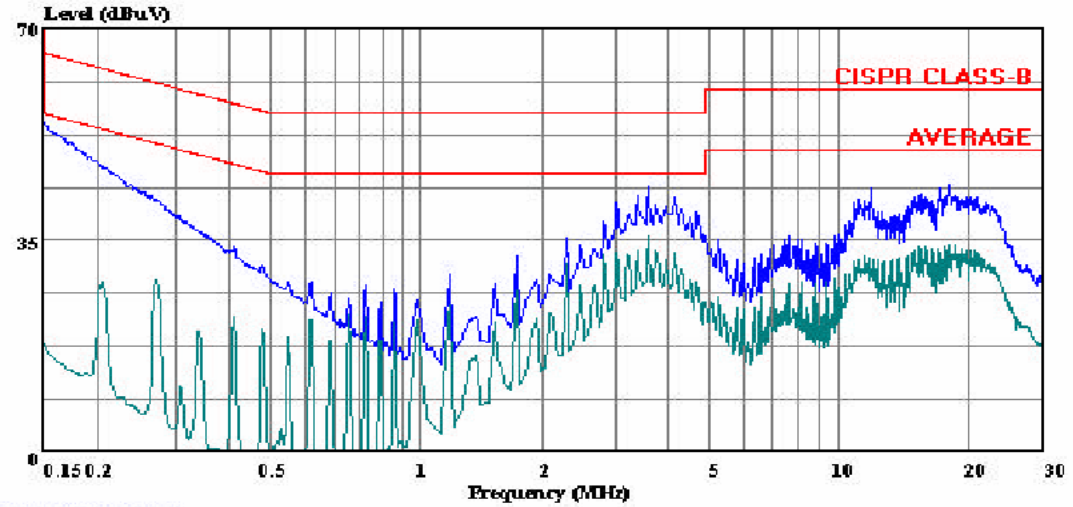

(Line Conduction)

Trace: 19 Ref Trace:

Condition: CISPR CLASS-B
Test Operator:: Doug Anderson
Project #: : 08U12167
Company: : Kyocera Wireless
Configuration:: EUT w/Headset, PC, Printer, Modem
: (Configuration 2)
Mode: : Normal
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: L2: Peak (Blue); Average (Green)