

RADIATED SPURIOUS EMISSIONS PORTIONS OF FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT FOR

DUAL BAND CDMA WITH BLUETOOTH + EDR

FCC MODEL NUMBER: E4100

FCC ID: V65E4100

REPORT NUMBER: 10U13354-2

ISSUE DATE: AUGUST 18, 2010

Prepared for KYOCERA COMMUNICATIONS, INC. 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. TEL: (510) 771-1000 FAX: (510) 661-0888

(R)

NVLAP LAB CODE 200065-0

Revision History

Rev.	lssue Date	Revisions	Revised By
	08/18/10	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME:	KYOCERA COMMUNICATIONS, INC. 10300 CAMPUS POINT DRIVE SAN DIEGO, CA 92121
EUT DESCRIPTION:	DUAL BAND CELL PHONE WITH BLUETOOTH

MODEL: E4100

SERIAL NUMBER: 41000051

DATE TESTED: AUGUST 17- 18, 2010

APPLICABLE STANDARD	S
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	PASS (Radiated Portions)

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. Measurement Uncertainties were not taken into account and are published for informational purposes only. 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. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For CCS By:

Tested By:

THU CHAN ENGINEERING MANAGER COMPLIANCE CERTIFICATION SERVICES

TOM CHEN EMC ENGINEER COMPLIANCE CERTIFICATION SERVICES

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, and FCC CFR 47 Part 15.

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 <u>http://www.ccsemc.com</u>.

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. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Bluetooth featured Dual-Band Cell Phone that manufactured by Kyocera Communications, Inc.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna, with a maximum gain of 0 dBi.

5.3. SOFTWARE AND FIRMWARE

N/A

5.4. WORST-CASE CONFIGURATION AND MODE

The worst-position was the EUT with highest emissions. To determine the worst-case, the EUT was investigated for X, Y, and Z-Positions, and the worst case is X position without AC/DC adapter.

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5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

	PERIPHERAL SUPPORT EQUIPMENT LIST										
Description	Manufacturer	Model	Serial Number	FCC ID							
AC Adapter	Kyocera	SCP-28ADT	N/A	DOC							
Headset	N/A	TX-550	N/A	N/A							

I/O CABLES

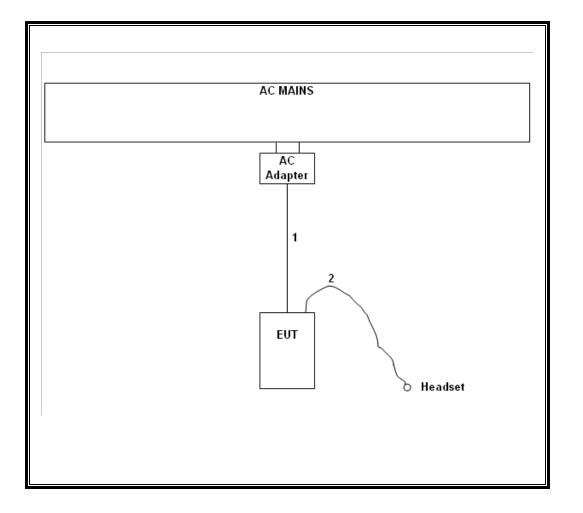
			/	O CABLE LIST		
Cable No.	Port	# of Identica Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC Input	1	USB	Un-Shielded	1.5 m	N/A
3	AUDIO	1	Jack	Un-Shielded	1 m	NA

TEST SETUP

The EUT is a stand alone for above 1GHz radiated emission, and with AC/DC adapter for below 1GHz radiated emissions, also AC Line Conduction tests.

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SETUP DIAGRAM FOR TESTS



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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					
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	10/08/10					
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	07/05/11					
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	12/16/10					
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	01/14/11					
Antenna, Horn, 18 GHz	EMCO	3115	C00945	01/29/11					
EMI Test Receiver, 30 MHz	R&S	ESHS 20	N02396	05/06/11					
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/29/10					
Reject Filter, 2.4-2.5 GHz	Micro-Tronics	BRM50702	N02685	CNR					

7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

<u>LIMITS</u>

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

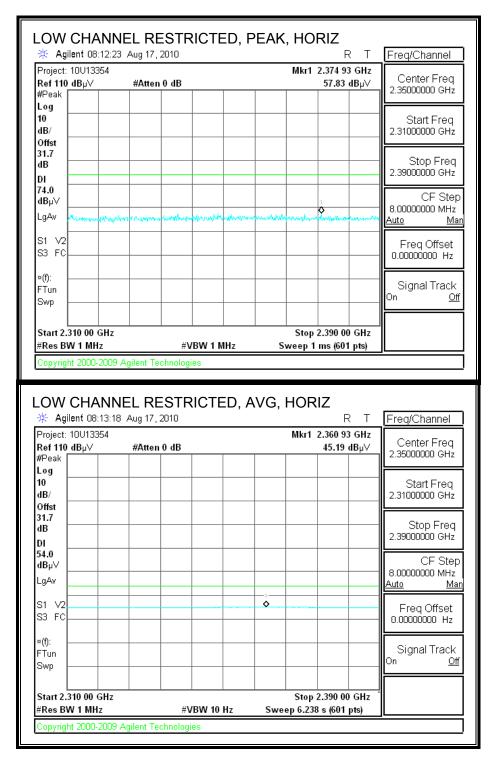
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

7.2. TRANSMITTER ABOVE 1 GHz

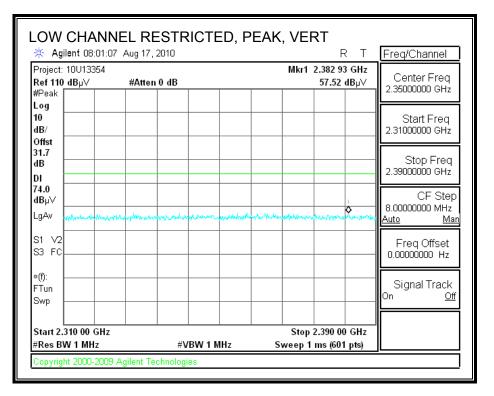
7.2.1. BASIC DATA RATE GFSK MODULATION

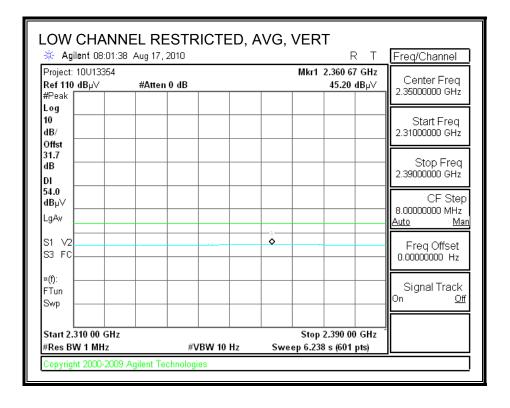
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



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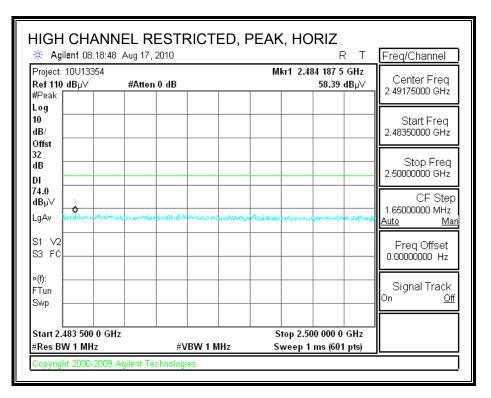
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

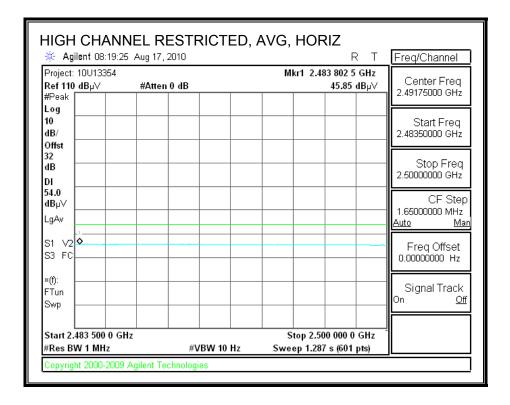




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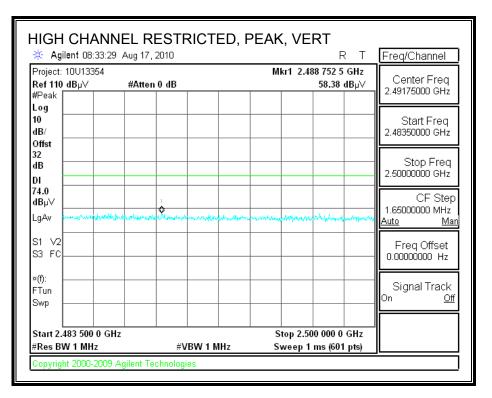
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

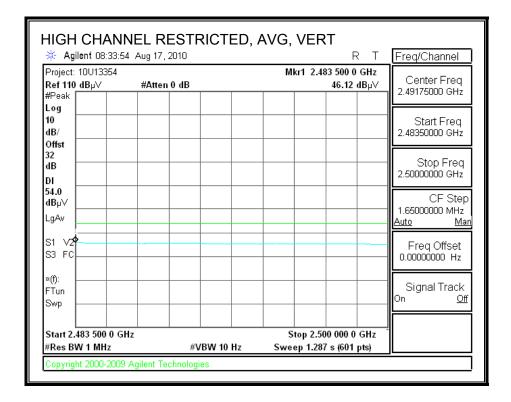




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RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





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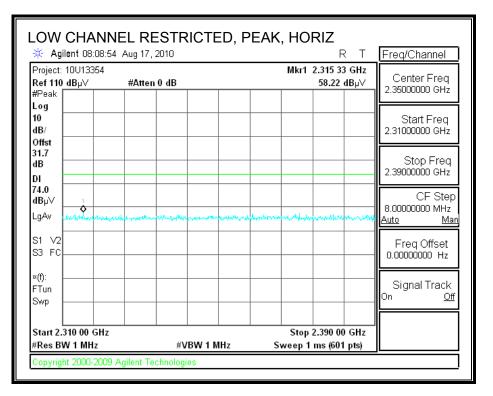
HARMONICS AND SPURIOUS EMISSIONS

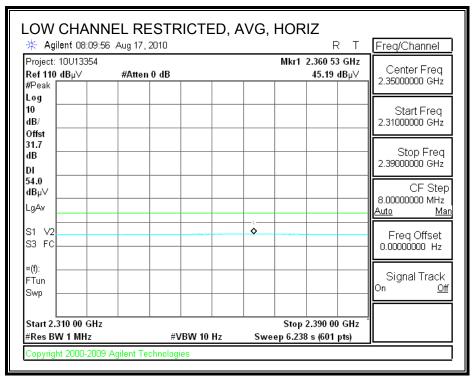
-		Measuren tification		s, Fre	mont 5n	n Chamb	er								
Test Engr		Tom Che													
Date:	•	08/17/10	ETL												
Project #:			a												
			10U13354												
Company mm n		Kyocera Wireless Dual Band Call Dhana with BT + KDR													
	ription:	Dual Band Cell Phone with BT + EDR EUT with Headset													
EUT M/N:			EUT with Headset FCC Class B												
Test Targ															
Mode Op		Bluetoor					. .				- : 11.0.				
	f	Measuren			-	Preamp (-	Field Stren	-			
	Dist	Distance						ct to 3 me			ld Strength				
	Read	Analyzer			Avg	-		trength @	r	-	75. Average				
	AF	Antenna			Peak			k Field Stre	ength	Margin v	rs. Peak Lii	nut			
	CL	Cable Los	55		HPF	High Pas	s Filte	r							
f	Dist	Read	AF	CL	Amp	D Corr	Fltr	Corr.	Limit	Margin	Ant. Pol.	Det.	Notes		
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP			
2402 MH	Low C	H GFSK													
4.804	3.0	64.6	33.0	5.8	-36.5	0.0	0.0	66.9	74.0	-7.1	H	P	Hori		
4.804	3.0	35.9	33.0	5.8	-36.5	0.0	0.0	46.9	54.0	-7.1	H	A	Hori		
7.206	3.0	37.2	35.1	7.2	-36.2	0.0	0.0	43.3	74.0	-30.7	H	P	Hori		
7.206	3.0	25.3	35.1	7.2	-36.2	0.0	0.0	31.4	54.0	-22.6	H	A	Hori		
4.804	3.0	58.2	33.0	5.8	-36.5	0.0	0.0	60.5	74.0	-13.5	V	P	Vert		
4.804	3.0	38.2	33.0	5.8	-36.5	0.0	0.0	40.5	54.0	-13.5	V	A	Vert		
7.206	3.0	38.2	35.1	7.2	-36.2	0.0	0.0	44.4	74.0	-29.6	V	Р	Vert		
7.206	3.0	24.9	35.1	7.2	-36.2	0.0	0.0	31.0	54.0	- 23.0	V	A	Vert		
2441 MH															
4.882	3.0	61.7	33.1	5.8	-36.5	0.0	0.0	64.2	74.0	-9.8	H	Р	Hori		
4.882	3.0	32.9	33.1	5.8	-36.5	0.0	0.0	44.2	54.0	-9.8	H	A	Hori		
7.323	3.0	37.4	35.3	7.3	-36.2	0.0	0.0	43.7	74.0	-30.3	H	Р	Hori		
7.323	3.0	25.9	35.3	7.3	-36.2	0.0	0.0	32.3	54.0	-21.7	H	A	Hori		
4.882	3.0	56.5	33.1	5.8	-36.5	0.0	0.0	59.0	74.0	-15.0	V	Р	Vert		
4.882	3.0 3.0	28.3 36.8	33.1	5.8	-36.5	0.0 0.0	0.0	39.0	54.0 74.0	-15.0 -30.9	V V	A P	Vert Vert		
7.323 7.323	3.0	36.8 24.9	35.3 35.3	7.3 7.3	-36.2	0.0	0.0 0.0	43.1 31.2	74.0 54.0	-30.9	v V	P A	Vert Vert		
		CH GFSK	* • • • • • • • • • • • • • • • • • • •		-30.2	0.0	0.0	31.4	74 . U	-44.0	v	A	veri		
4.960 MILL	3.0	63.1	33.2	5.9	-36.5	0.0	0.0	65.7	74.0	-8.3	Н	Р	Hori		
4.960	3.0	34.4	33.2	5.9	-36.5	0.0	0.0	45.7	74.0 54.0	-8.3	H H	A	Hori		
7.440	3.0	37.3	35.5	7.3	-36.2	0.0	0.0	43.9	74.0	-30.1	H	P	Hori		
7.440	3.0	24.6	35.5	7.3	-36.2	0.0	0.0	31.2	54.0	-22.8	H	Å	Hori		
4.960	3.0	62.6	33.2	5.9	-36.5	0.0	0.0	65.2	74.0	-8.8	v	P	Vert		
	3.0	42.6	33.2	5.9	-36.5	0.0	0.0	45.2	54.0	-8.8	v	Â	Vert		
4.960	• • • • • • • • • • • • • • • • • • • •		35.5	7.3	-36.2	0.0	0.0	43.6	74.0	-30.4	v	P	Vert		
4.960 7.440	3.0	37.0	: 32.2												

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7.2.2. ENHANCED DATA RATE 8PSK MODULATION

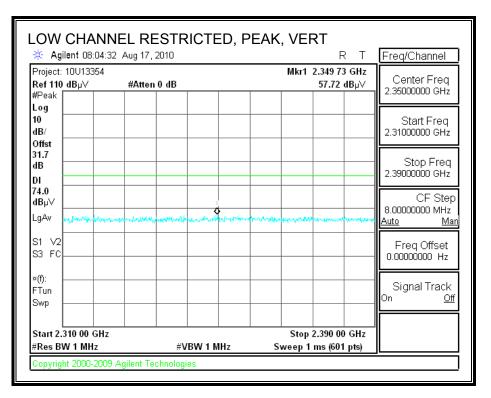
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

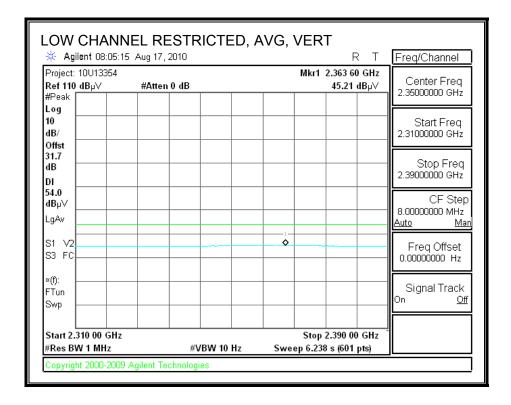




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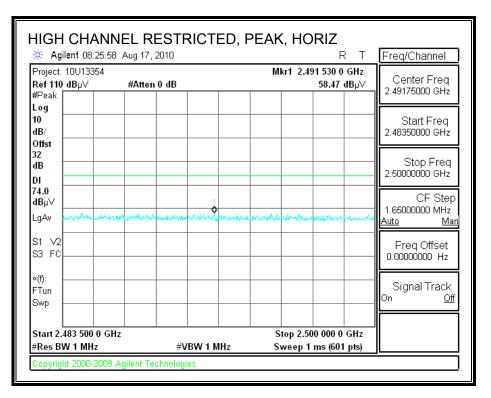
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

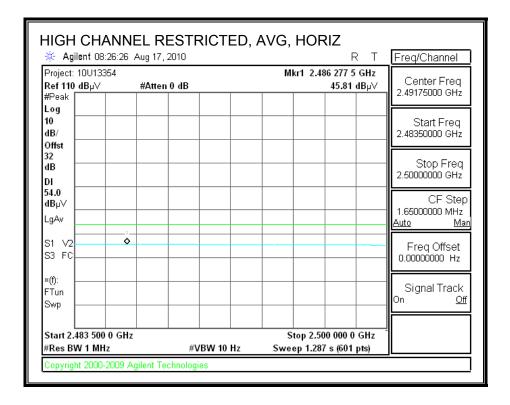




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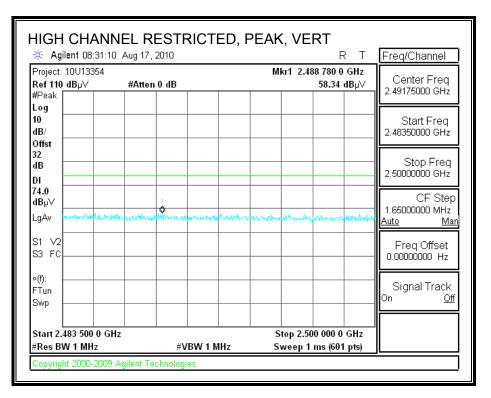
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

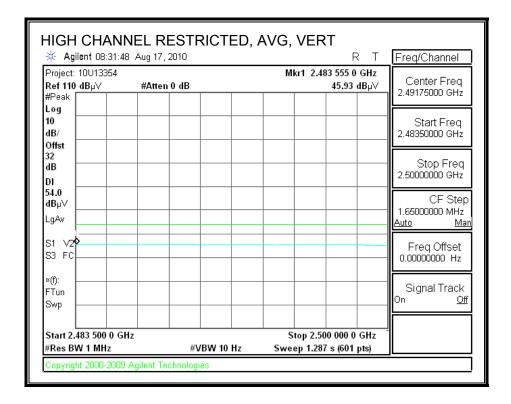




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RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





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HARMONICS AND SPURIOUS EMISSIONS

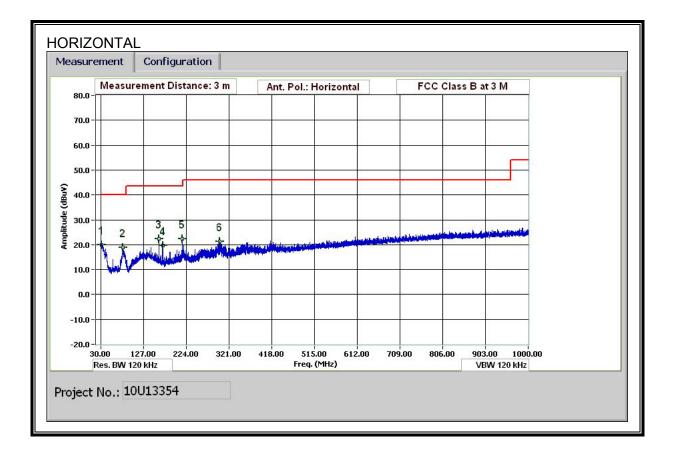
-		Measures tification		s, Fre	mont 5n	n Chamb	er								
Test Engr		Tom Ch	en												
Date:	-	08/17/10													
Project #		10U1335													
Company			-												
			Kyocera Wireless Dual Band Cell Phone with BT + EDR												
EUT M/N:	-		EUT with Headset FCC Class B												
Test Targ															
Mode Op		Bluetoo		aha											
inoue op	f	Measurer			Amo	Preamp (Tain			A 170 Y200	Field Stren	eth Limit			
	I Dist	Distance			-	-		ct to 3 me	ters	-	ld Strength	-			
	Read	Analyzer			Avg			trength @			75. Average				
	AF	Antenna	-		Peak	-		r Field Str	r	-	rs. Peak Li				
	CL	Cable Lo:			HPF	High Pas				margin /	S. I Car LH				
	01	CADIE EO:					. т ше.	•							
f	Dist	Read	AF	CL	Amp	D Corr	Fltr	Corr.	Limit	Margin	Ant. Pol.	Det.	Notes		
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB		dBuV/m	dB	V/H	P/A/QP			
2402 MH	1 7 6	:													
4.804	3.0	56.8	33.0	5.8	-36.5	0.0	0.0	59.1	74.0	-14.9	H	Р	Hori		
4.804	3.0	38.5	33.0	5.8	-36.5	0.0	0.0	40.8	54.0	-13.2	H	Ā	Hori		
7.206	3.0	36.8	35.1	7.2	-36.2	0.0	0.0	43.0	74.0	-31.0	H	P	Hori		
7.206	3.0	24.9	35.1	7.2	-36.2	0.0	0.0	31.0	54.0	-23.0	H	A	Hori		
4.804	3.0	49.0	33.0	5.8	-36.5	0.0	0.0	51.3	74.0	-22.7	V	P	Vert		
4.804	3.0	32.9	33.0	5.8	-36.5	0.0	0.0	35.2	54.0	- 18.8	V	A	Vert		
7.206	3.0	37.2	35.1	7.2	-36.2	0.0	0.0	43.3	74.0	- 30.7	V	Р	Vert		
7.206	3.0	24.7	35.1	7.2	-36.2	0.0	0.0	30.8	54.0	-23.2	V	A	Vert		
2441 MH		~				ļ									
4.882	3.0	53.9	33.1	5.8	-36.5	0.0	0.0	56.4	74.0	-17.6	H	Р	Hori		
4.882	3.0	31.2	33.1	5.8	-36.5	0.0	0.0	33.7	54.0	-20.3	H	A	Hori		
7.323	3.0	36.7	35.3	7.3	-36.2	0.0	0.0	43.1	74.0	-30.9	H	Р	Hori		
7.323	3.0	24.7	35.3	7.3	-36.2	0.0	0.0	31.0 52.1	54.0	-23.0	H V	A P	Hori		
4.882 4.882	3.0 3.0	49.6 28.3	33.1 33.1	5.8 5 o	-36.5 -36.5	0.0 0.0	0.0 0.0	52.1 30.8	74.0 54.0	-21.9 -23.2	v V	÷	Vert Vert		
4.882 7.323	3.0	28.3 37.6	35.3	5.8 7.3	-36.2	0.0	0.0 0.0	30.8 44.0	54.U 74.0	-23.2 -30.1	v V	A P	Vert Vert		
7.323	3.0	37.0 24.6	35.3	7.3	-36.2	0.0	0.0	30.9	74.0 54.0	-30.1	v V	P A	Vert		
2480 MH		A					0.0		~ ~ NU	-13.1	*		4611		
4.960	3.0	53.4	33.2	5.9	-36.5	0.0	0.0	56.1	74.0	-17.9	H	Р	Hori		
4.960	3.0	36.2	33.2	5.9	-36.5	0.0	0.0	38.8	54.0	-15.2	H	Ā	Hori		
7.440	3.0	37.7	35.5	7.3	-36.2	0.0	0.0	44.3	74.0	-29.7	H	P	Hori		
7.440	3.0	24.6	35.5	7.3	-36.2	0.0	0.0	31.2	54.0	-22.8	H	Ā	Hori		
4.960	3.0	54.5	33.2	5.9	-36.5	0.0	0.0	57.1	74.0	-16.9	V	P	Vert		
4.960	3.0	37.1	33.2	5.9	-36.5	0.0	0.0	39.8	54.0	-14.2	V	A	Vert		
7.440	3.0	36.5	35.5	7.3	-36.2	0.0	0.0	43.2	74.0	- 30.8	V	Р	Vert		
7.440	3.0	24.6	35.5	7.3	-36.2	0.0	0.0	31.2	54.0	-22.8	v	A	Vert		

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7.3. WORST-CASE BELOW 1 GHz

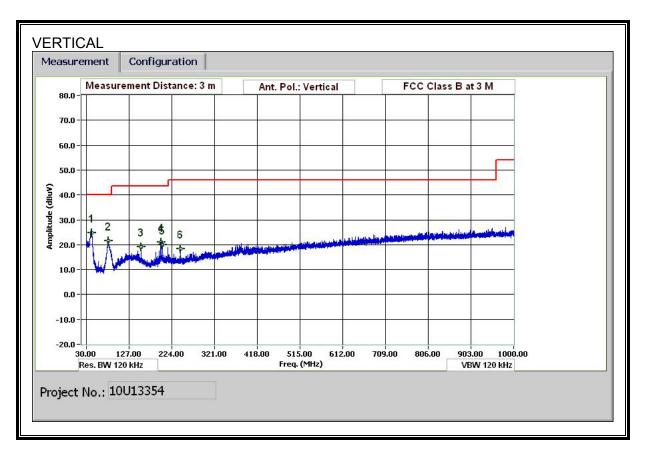
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

PLOTS



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



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<u>DATA</u>

		Tom Che	-										
Test Engr: Date:		08/17/10	л										
Date: Project #:		10U13354											
гюјест #: Сотралу:		Kyocera V	-										
Company: EUT Descri		Dual Ban			DT .	EDD							
	pnon:					LDK							
EUT M/N:		EUT with FCC Clas											
Test Target				-									
Mode Oper		Bluetootl					. .					• · · ·	
	f	Measurem	-		Amp	Preamp (Margin	Margin vs.	Linut	
	Dist	Distance t		a				to 3 meters					
	Read	Analyzer I	~		Filter	Filter Ins							
	AF	Antenna F			Corr.	Calculate							
	CL	Cable Loss			Limit	Field Stre	ength Lin	nit					
f	Dist	Read	AF	CL	Amp	D Corr	Filter	Corr.	Limit	Margin	Ant. Pol.	Det.	Notes
MHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	
Horizontal													
31.560	3.0	28.4	19.4	0.5	28.4	0.0	0.0	20.0	40.0	-20.0	H	P	
80.402	3.0	39.1	7.3	0.8	28.3	0.0	0.0	18.9	40.0	-21.1	H	Р	
161.525	3.0	38.0	11.5	1.1	28.2	0.0	0.0	22.4	43.5	-21.1	H	Р	
170.406	3.0	36.1	10.8	1.2	28.2	0.0	0.0	19.8	43.5	-23.7	H	Р	
214.808	3.0	37.5	11.9	1.3	28.2	0.0	0.0	22.5	43.5	-21.0	H	Р	
299.771	3.0	34.5	13.4	1.5	28.1	0.0	0.0	21.3	46.0	-24.7	H	Р	
Vertical												_	
42.120	3.0	40.1	12.6	0.6	28.4	0.0	0.0	24.8	40.0	-15.2	V	P	
80.042	3.0	41.8	7.3	0.8	28.3	0.0	0.0	21.6	40.0	-18.4	<u>V</u>	P	
154.805	3.0	34.1	12.2	1.1	28.3	0.0	0.0	19.2	43.5	-24.3	V	P	
199.087 202.687	3.0	36.2	11.9	1.2	28.2	0.0	0.0	21.1	43.5	-22.4	V V	P	
	3.0	35.0 33.5	12.0 11.8	1.3 1.3	28.2 28.2	0.0 0.0	0.0 0.0	20.0 18.5	43.5 46.0	-23.5 -27.5	v v	P P	
243.369	3.0												

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8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted Limit (dBuV)		
	Quasi-peak	Average	
0.15-0.5	66 to 56 *	56 to 46 *	
0.5-5	56	46	
5-30	60	50	

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

<u>RESULTS</u>

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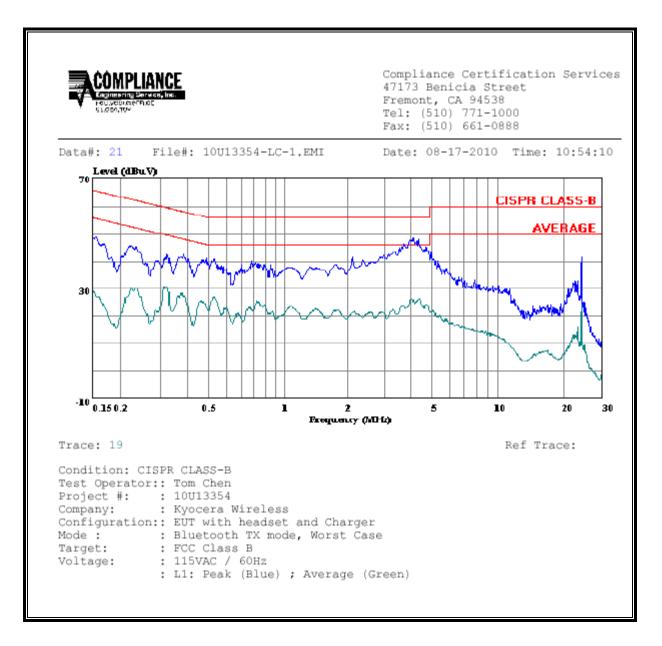
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6 WORST EMISSIONS (EUT WITH AC ADAPTER)

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	
0.16	48.94		27.18	0.00	65.73	55.73	-16.79	-28.55	L1	
0.49	41.26		23.40	0.00	56.24	46.24	-14.98	-22.84	L1	
4.20	48.66		25.88	0.00	56.00	46.00	-7.34	-20.12	L1	
0.22	49.90		33.74	0.00	62.74	52.74	-12.84	-19.00	L2	
0.32	47.48		35.65	0.00	59.84	49.84	-12.36	-14.19	L2	
4.38	44.24		27.06	0.00	56.00	46.00	-11.76	-18.94	L2	
6 Worst I	Data									

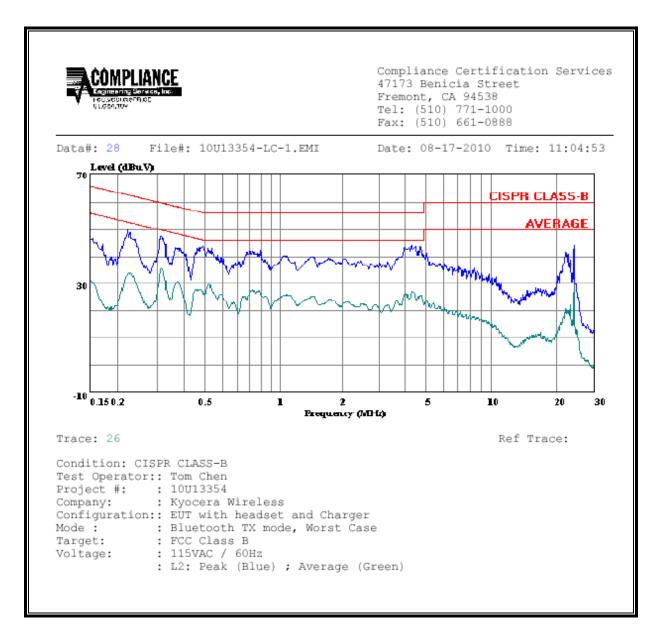
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LINE 1 RESULTS



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LINE 2 RESULTS



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