



**RADIATED SPURIOUS EMISSIONS PORTIONS OF
FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 7**

CERTIFICATION TEST REPORT

FOR

TRI-BAND 1xRTT CDMA PHONE WITH BLUETOOTH

**FCC MODEL NUMBER: K53-02
IC MODEL NUMBER: S2300**

**FCC ID: OVF-K5302
IC: 3572A- S2300**

REPORT NUMBER: 10U13021-1A

ISSUE DATE: JANUARY 21, 2010

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.
TEL: (510) 771-1000
FAX: (510) 661-0888**

NVLAP[®]
NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	01/15/10	Initial Issue	T. Chan
A	01/21/10	Revised antenna gain	A. Zaffar

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: KYOCERA WIRELESS
10300 CAMPUS POINT DRIVE
SAN DIEGO, CA 92121, USA

EUT DESCRIPTION: TRI-BAND 1XRTT CDMA PHONE WITH BLUETOOTH

FCC MODEL NUMBER: K53-02

IC MODEL NUMBER: S2300

SERIAL NUMBER: FFS23000001869

DATE TESTED: JANUARY 13 -15, 2010

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	PASS (Radiated Portions)
INDUSTRY CANADA RSS-210 Issue 7 Annex 8	PASS (Radiated Portions)
INDUSTRY CANADA RSS-GEN Issue 2	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:



THU CHAN
EMC MANAGER
COMPLIANCE CERTIFICATION SERVICES

Tested By:



VIEN TRAN
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 2, and RSS-210 Issue 7.

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. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

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 Tri-band CDMA Phone that manufactured by Kyocera Wireless Corporations.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna, with a maximum gain of 0.5dBi.

5.3. SOFTWARE AND FIRMWARE

The EUT driver and utility software installed in the host support equipment during testing was StarGraphitePassThru, rev. 1.0.0.1 and CSR Blue Suite (BtCliCtrl), rev. 2.0.0.0.

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT has been evaluated at X, Y, Z-axis, and with AC/DC adapter. The highest measured output power was at Z-Axis with AC/DC adapter.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC Adapter	Kyocera	TXTVL10148	936S-001Y	DoC
Earphone	N/A	N/A	N/A	N/A

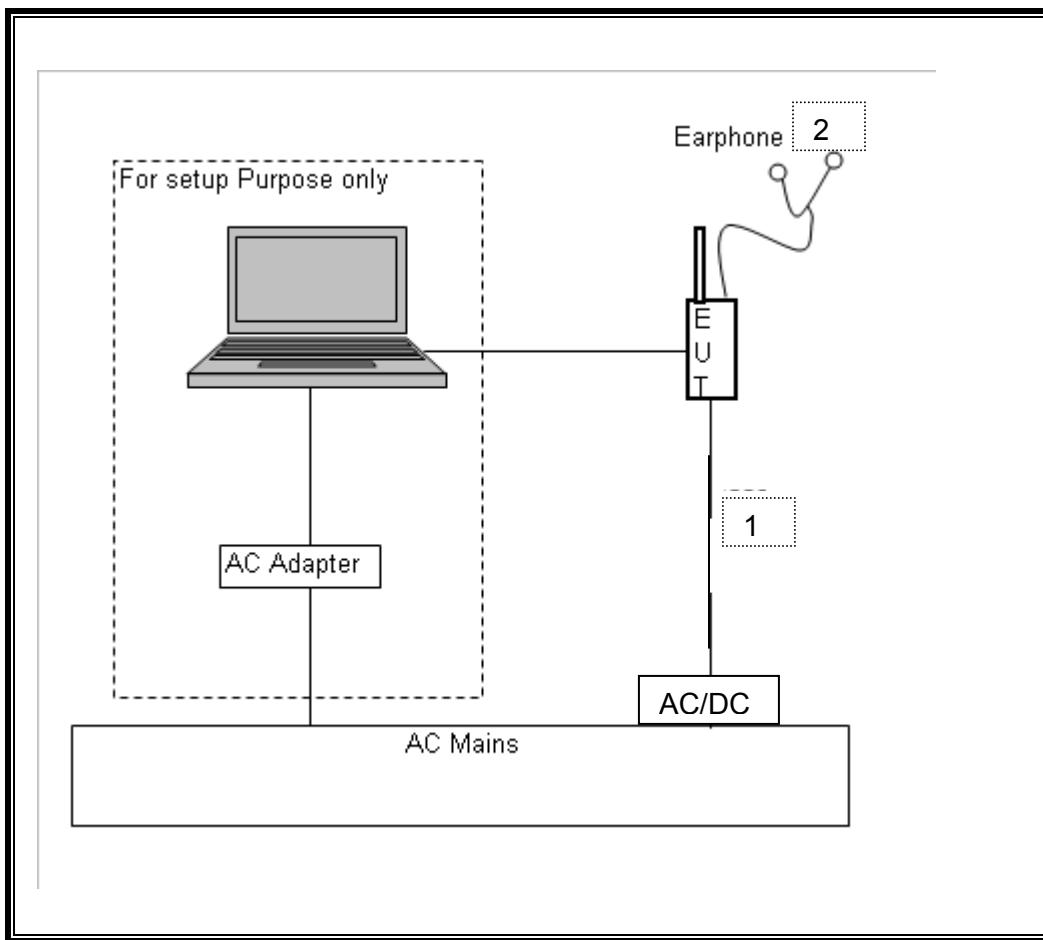
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC Input	1	DC	Un-Shielded	2.0 m	N/A
2	Jack	1	Earphone	Un-shielded	1.0m	N/A

TEST SETUP

The EUT is connected to a laptop computer via a USB cable to setup the modulation, channel and output power. The laptop and USB cable must be disconnected from EUT and the EUT is stand-alone during the test.

SETUP DIAGRAM FOR TESTS



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	08/05/10
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

LIMITS

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.

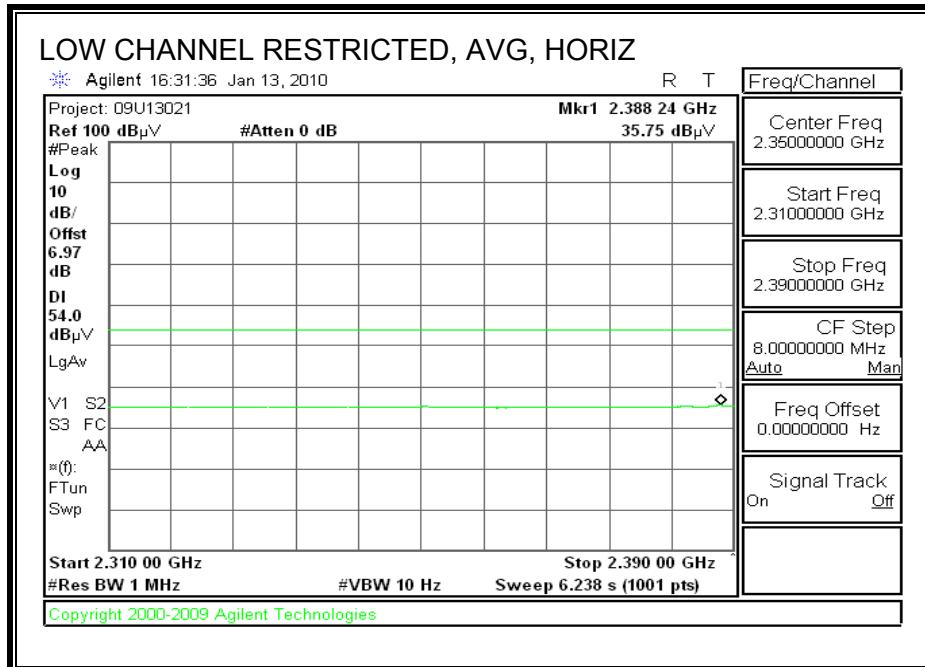
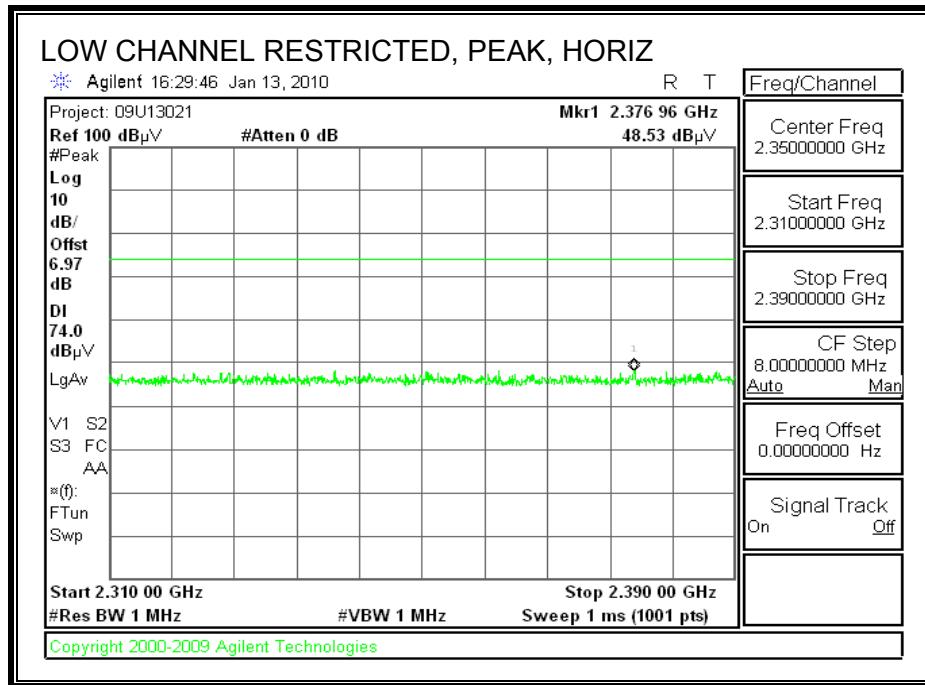
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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.

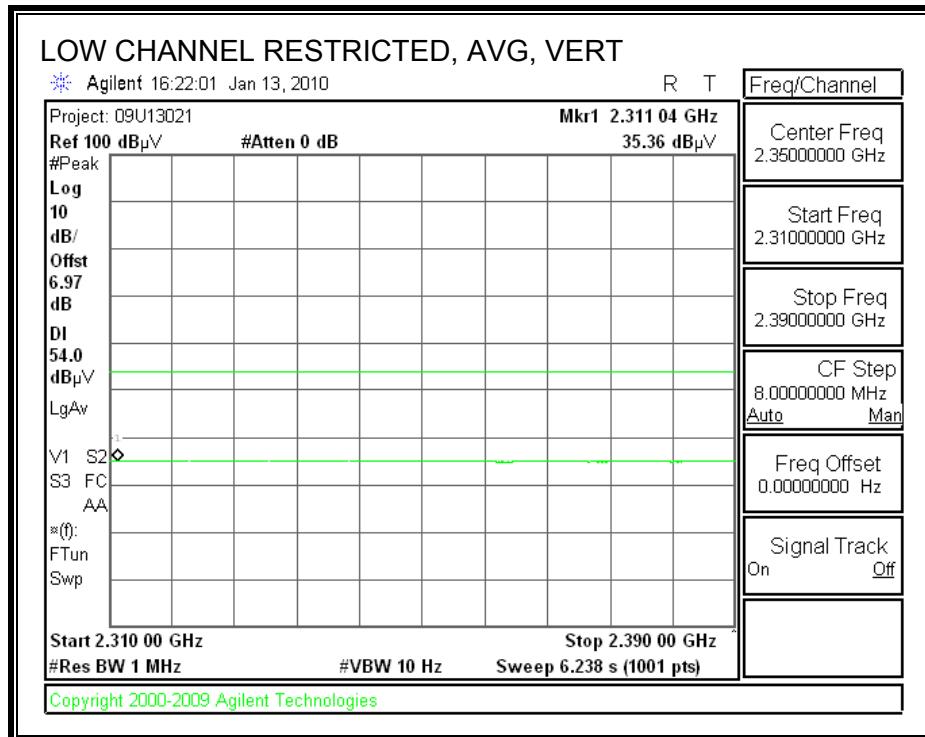
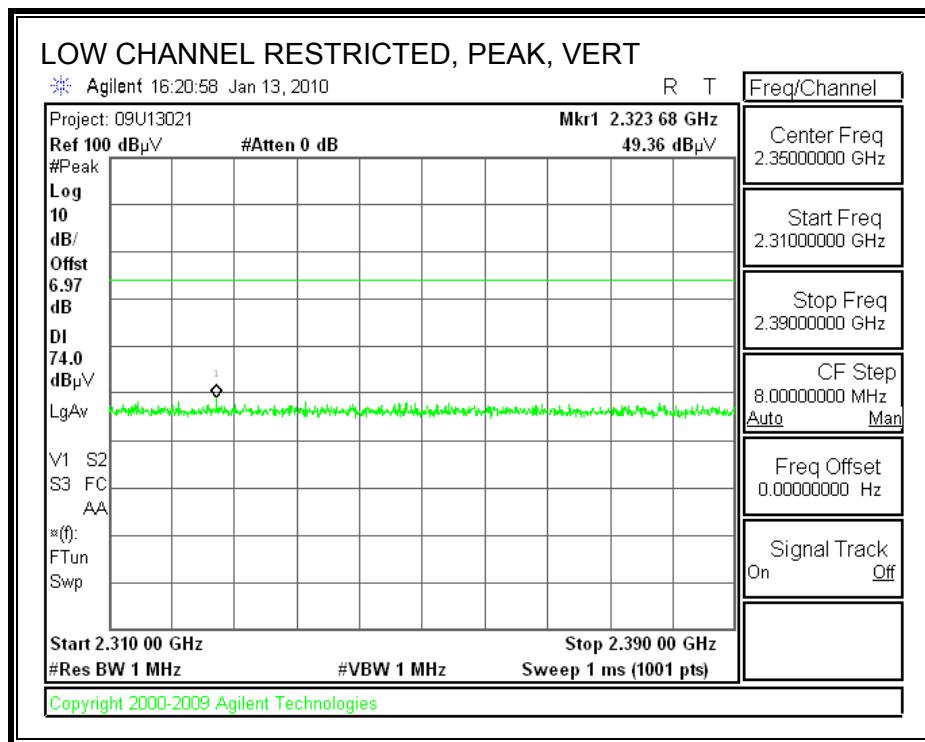
7.2. TRANSMITTER ABOVE 1 GHz

7.2.1. BASIC DATA RATE GFSK MODULATION

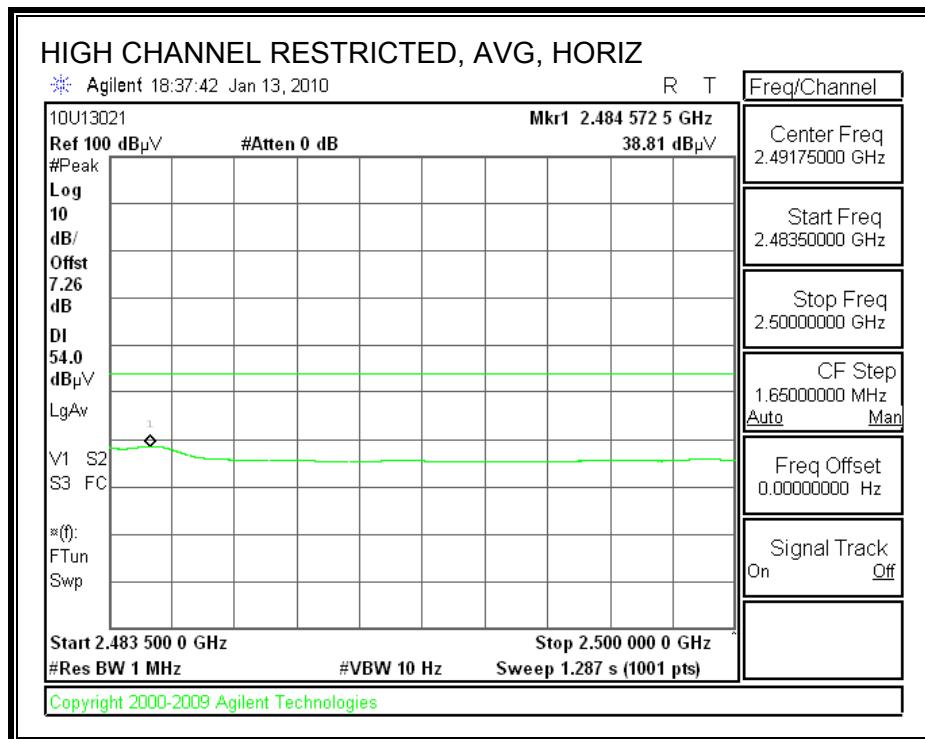
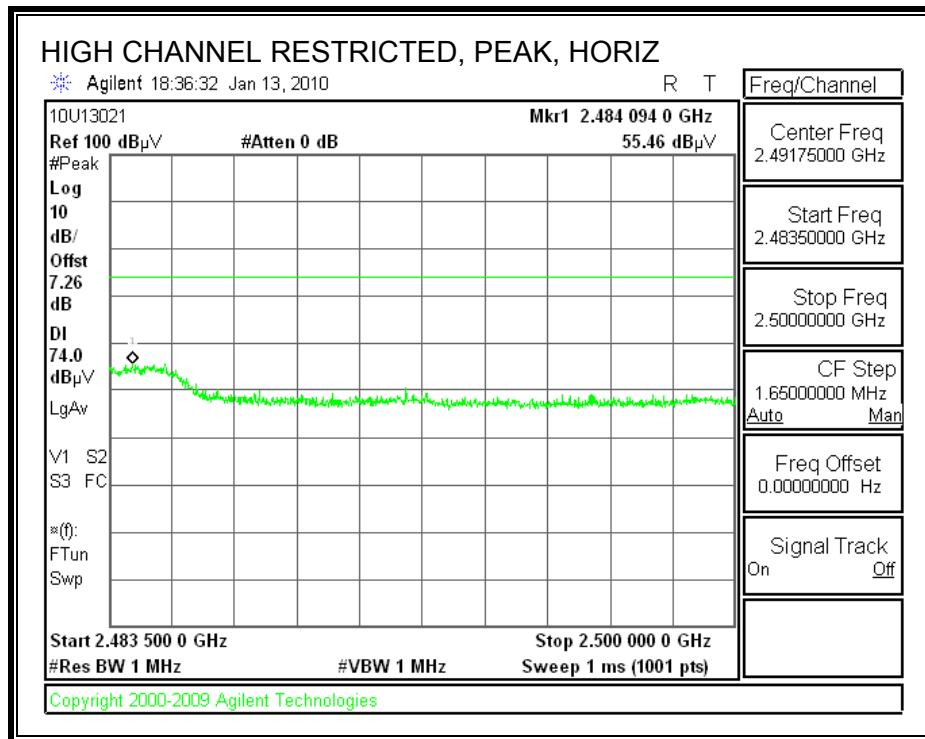
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



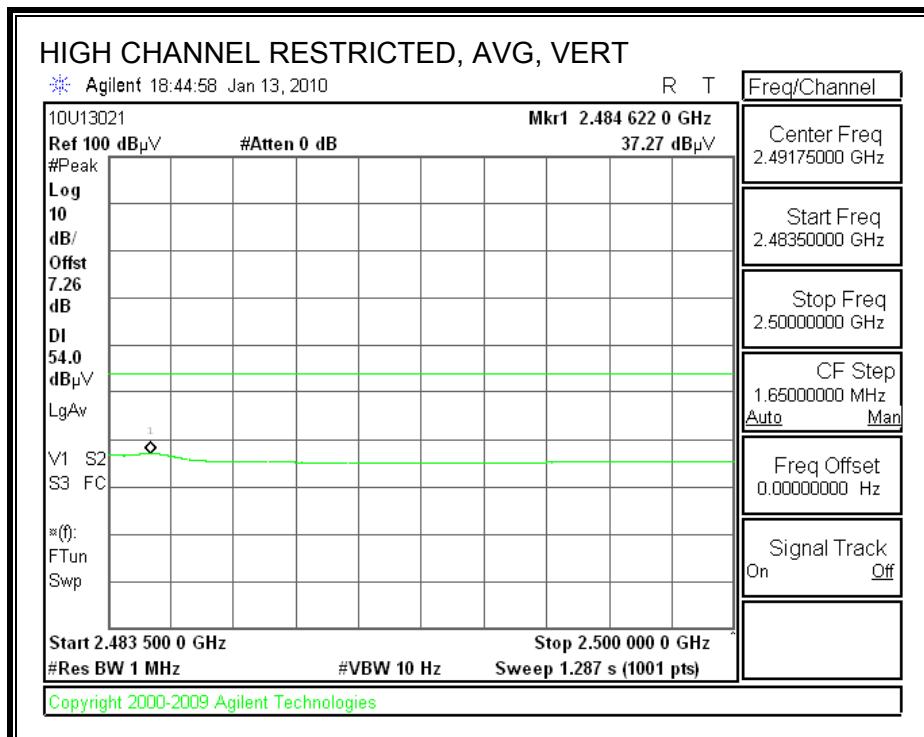
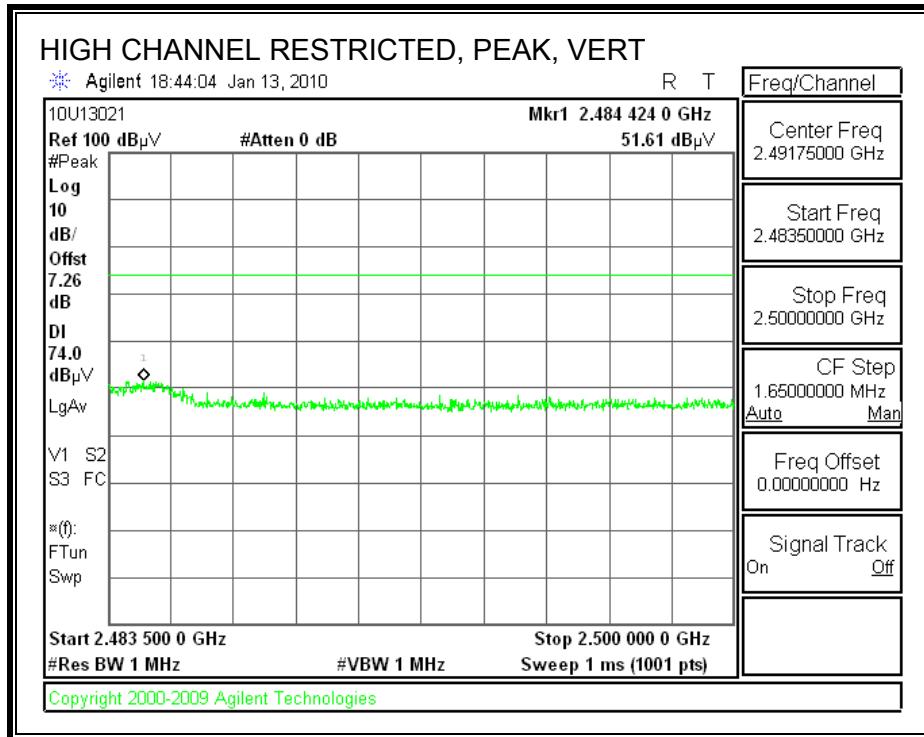
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
Compliance Certification Services, Fremont 3m Chamber

Test Engr: Vien Tran
Date: 01/14/10
Project #: 10U13021
Company: Kyocera
EUT Description: Tri-Band Phone
EUT M/N: K53-02
Test Target: FCC Class B
Mode Oper: Tx GFSK

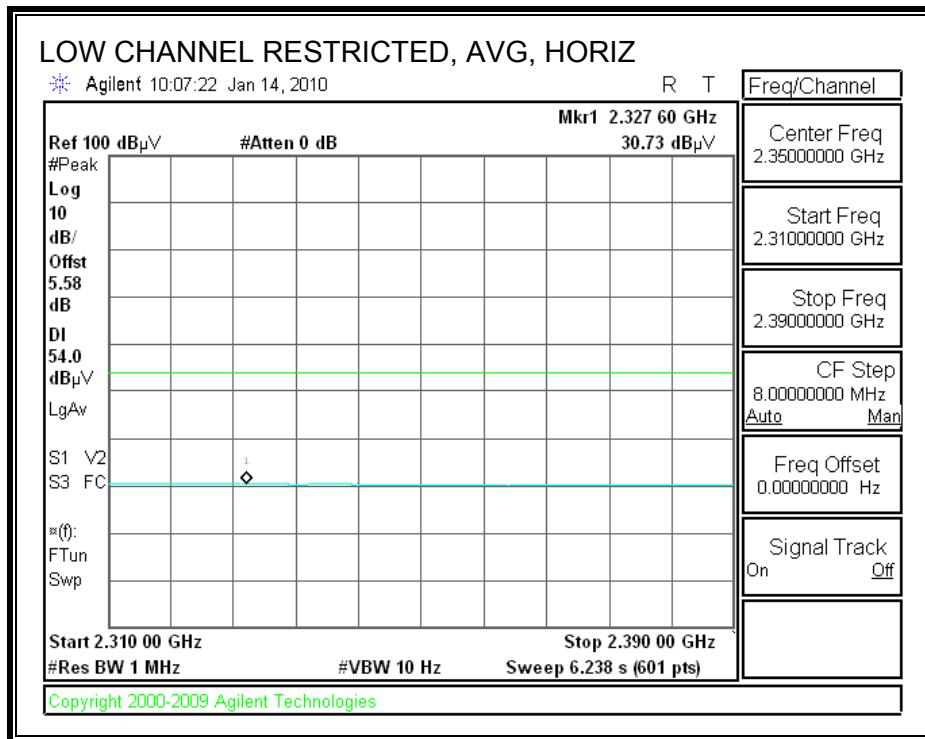
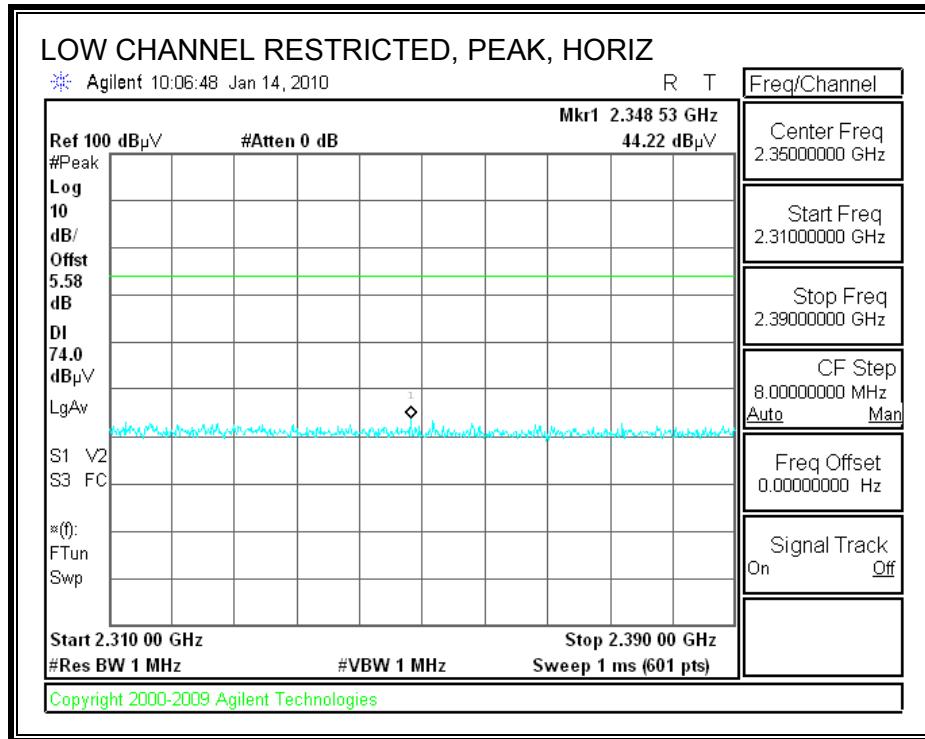
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Connect to 3 meters	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs.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

f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. PoL V/H	Det. P/A/QP	Ant.High cm	Table Angle Degree	Notes
Low Channel 2402MHz															
4.804	3.0	34.4	32.7	5.8	-34.8	0.0	0.0	38.0	74.0	-36.0	H	P	100.0	219.0	
4.804	3.0	22.5	32.7	5.8	-34.8	0.0	0.0	26.1	54.0	-27.9	H	A	100.0	219.0	
4.804	3.0	33.3	32.7	5.8	-34.8	0.0	0.0	36.9	74.0	-37.1	V	P	100.0	179.0	
4.804	3.0	21.7	32.7	5.8	-34.8	0.0	0.0	25.3	54.0	-28.7	V	A	100.0	179.0	
Mid Channel 2441MHz															
4.882	3.0	31.7	32.7	5.8	-34.8	0.0	0.0	35.4	74.0	-38.6	H	P	100.0	216.0	
4.882	3.0	19.5	32.7	5.8	-34.8	0.0	0.0	23.3	54.0	-30.7	H	A	100.0	216.0	
7.323	3.0	34.7	35.5	7.3	-34.1	0.0	0.0	43.3	74.0	-30.7	H	P	157.0	183.0	
7.323	3.0	21.2	35.5	7.3	-34.1	0.0	0.0	29.8	54.0	-24.2	H	A	157.0	183.0	
4.882	3.0	32.4	32.7	5.8	-34.8	0.0	0.0	36.1	74.0	-37.9	V	P	100.0	139.0	
4.882	3.0	20.6	32.7	5.8	-34.8	0.0	0.0	24.3	54.0	-29.7	V	A	100.0	139.0	
7.323	3.0	32.5	35.5	7.3	-34.1	0.0	0.0	41.1	74.0	-32.9	V	P	163.0	151.0	
7.323	3.0	20.3	35.5	7.3	-34.1	0.0	0.0	29.0	54.0	-25.0	V	A	163.0	151.0	
High Channel 2480MHz															
4.960	3.0	31.6	32.8	5.9	-34.8	0.0	0.0	35.5	74.0	-38.5	H	P	100.0	78.0	
4.960	3.0	18.9	32.8	5.9	-34.8	0.0	0.0	22.8	54.0	-31.2	H	A	100.0	78.0	
7.440	3.0	36.6	35.6	7.3	-34.1	0.0	0.0	45.5	74.0	-28.5	H	P	151.0	194.0	
7.440	3.0	22.0	35.6	7.3	-34.1	0.0	0.0	30.9	54.0	-23.1	H	A	151.0	194.0	
4.960	3.0	31.6	32.8	5.9	-34.8	0.0	0.0	35.5	74.0	-38.5	V	P	100.0	151.0	
4.960	3.0	20.1	32.8	5.9	-34.8	0.0	0.0	24.0	54.0	-30.0	V	A	100.0	151.0	
7.440	3.0	33.5	35.6	7.3	-34.1	0.0	0.0	42.4	74.0	-31.6	V	P	147.0	310.0	
7.440	3.0	20.8	35.6	7.3	-34.1	0.0	0.0	29.7	54.0	-24.3	V	A	147.0	310.0	

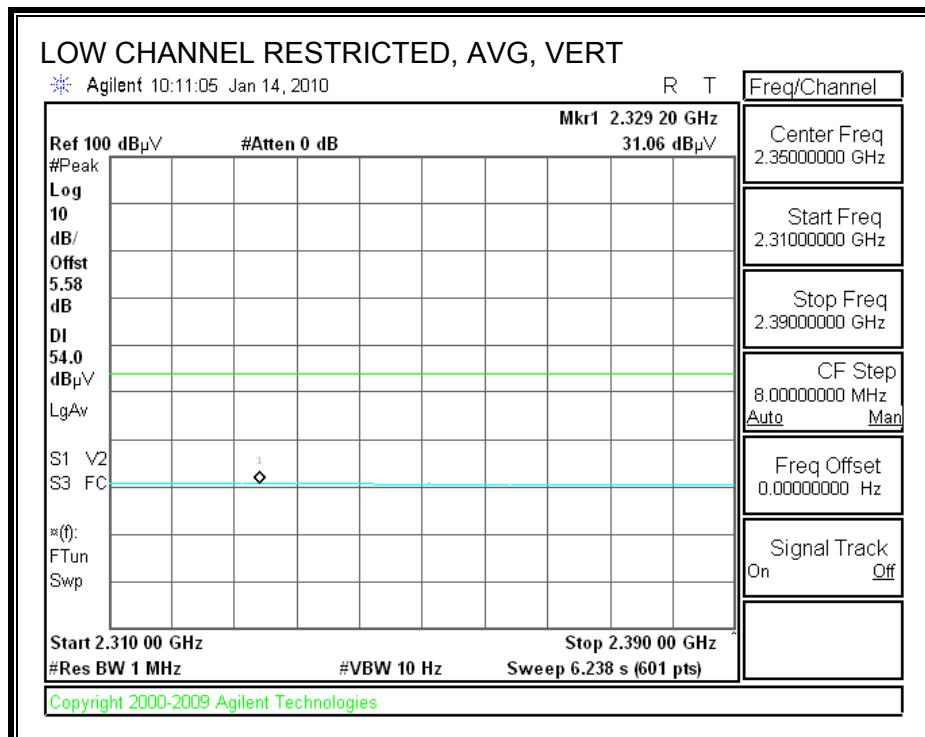
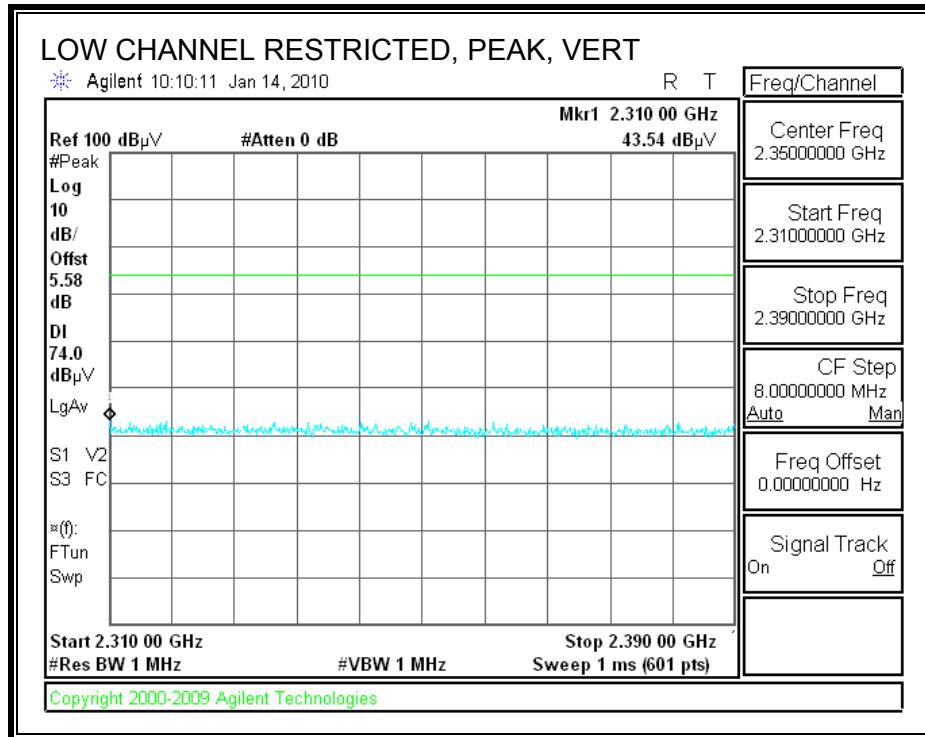
Note: No other emissions were detected above the system noise floor.

7.2.2. ENHANCED DATA RATE 8PSK MODULATION

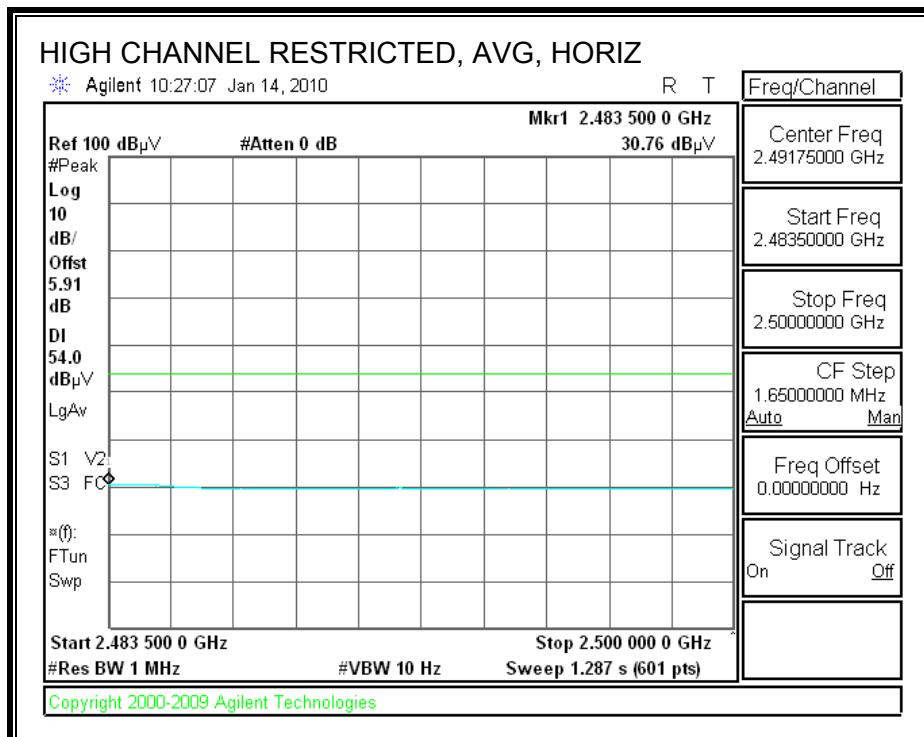
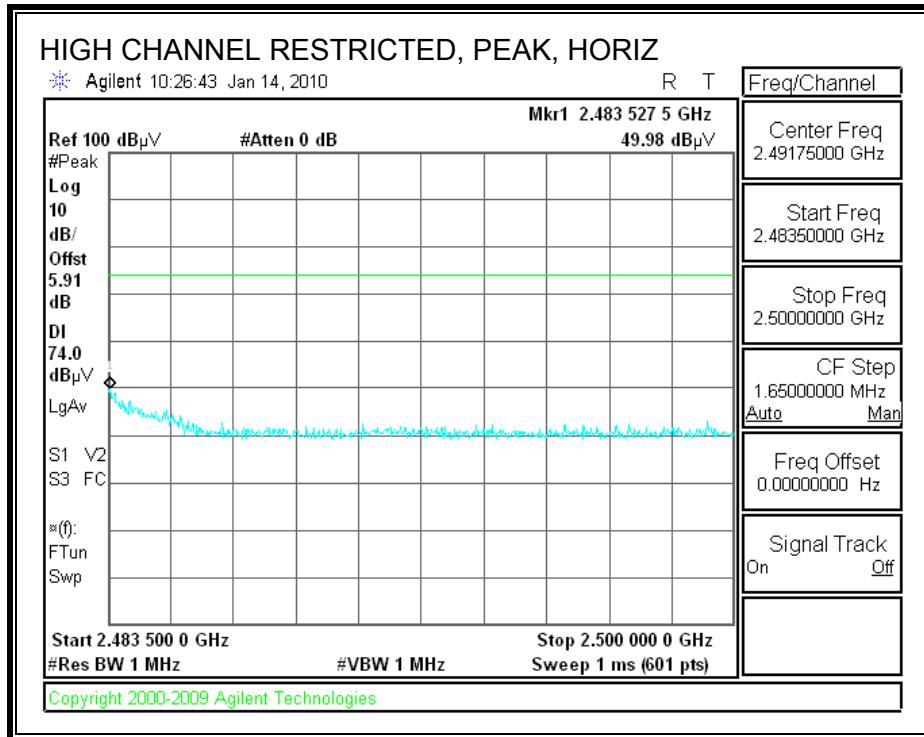
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



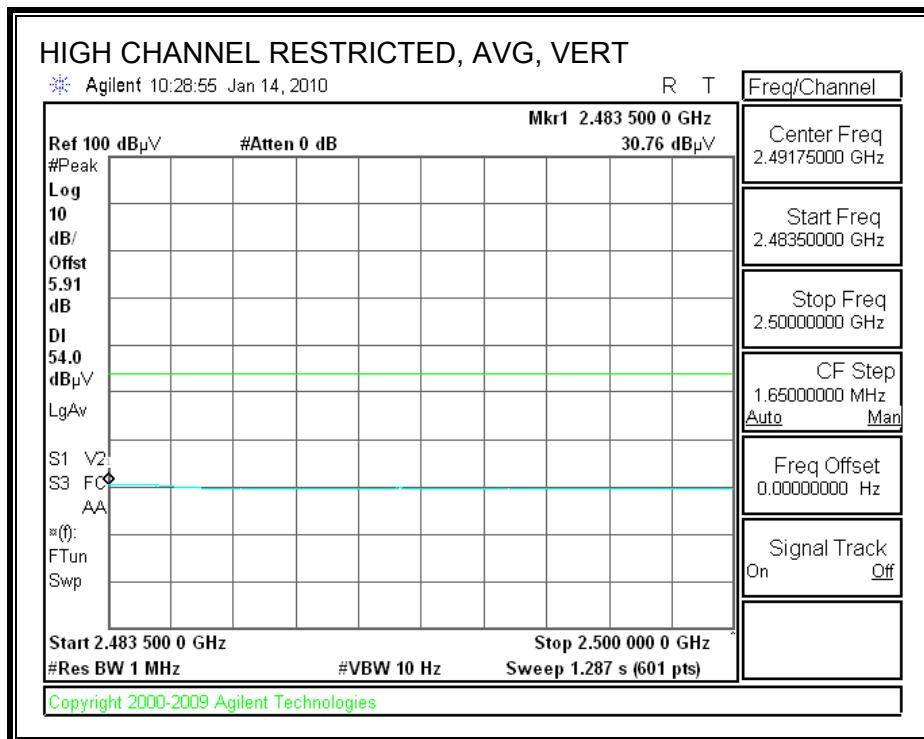
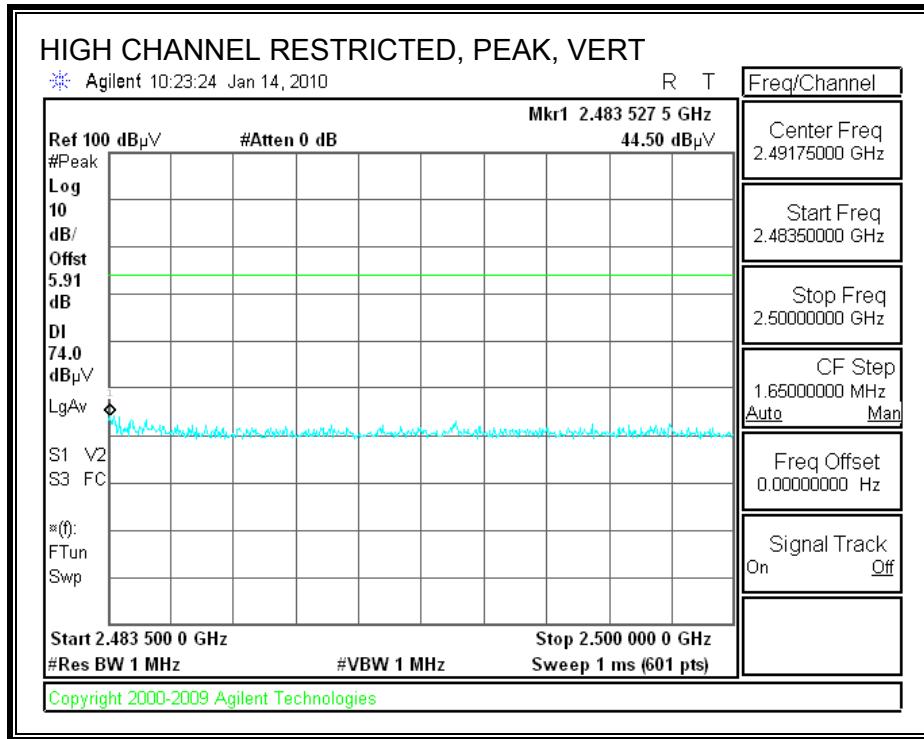
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
Compliance Certification Services, Fremont 3m Chamber

Test Engr: Vien Tran
Date: 01/14/10
Project #: 10U13021
Company: Kyocera
EUT Description: Tri-Band Phone
EUT M/N: K53-02
Test Target: FCC Class B
Mode Oper: Tx 8PSK

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

f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Ant.High cm	Table Angle Degree	Notes
Low Channel 2402MHz															
4.804	3.0	30.8	32.7	5.8	-34.8	0.0	0.0	34.4	74.0	-39.6	H	P	100.0	221.0	
4.804	3.0	18.9	32.7	5.8	-34.8	0.0	0.0	22.5	54.0	-31.5	H	A	100.0	221.0	
4.804	3.0	31.2	32.7	5.8	-34.8	0.0	0.0	34.8	74.0	-39.2	V	P	100.0	137.0	
4.804	3.0	19.2	32.7	5.8	-34.8	0.0	0.0	22.8	54.0	-31.2	V	A	100.0	137.0	
Mid Channel 2441MHz															
4.882	3.0	31.7	32.7	5.8	-34.8	0.0	0.0	35.4	74.0	-38.6	H	P	180.0	290.0	
4.882	3.0	20.2	32.7	5.8	-34.8	0.0	0.0	23.9	54.0	-30.1	H	A	180.0	290.0	
7.323	3.0	32.6	35.5	7.3	-34.1	0.0	0.0	41.3	74.0	-32.7	H	P	168.0	257.0	
7.323	3.0	20.2	35.5	7.3	-34.1	0.0	0.0	28.9	54.0	-25.1	H	A	168.0	257.0	
4.882	3.0	32.3	32.7	5.8	-34.8	0.0	0.0	36.1	74.0	-37.9	V	P	197.0	340.0	
4.882	3.0	20.9	32.7	5.8	-34.8	0.0	0.0	24.6	54.0	-29.4	V	A	197.0	340.0	
7.323	3.0	32.2	35.5	7.3	-34.1	0.0	0.0	40.9	74.0	-33.1	V	P	153.0	51.0	
7.323	3.0	20.0	35.5	7.3	-34.1	0.0	0.0	28.6	54.0	-25.4	V	A	153.0	51.0	
Hi Channel 2480MHz															
4.960	3.0	31.7	32.8	5.9	-34.8	0.0	0.0	35.6	74.0	-38.4	H	P	100.0	45.0	
4.960	3.0	18.8	32.8	5.9	-34.8	0.0	0.0	22.7	54.0	-31.3	H	A	100.0	45.0	
7.440	3.0	33.1	35.6	7.3	-34.1	0.0	0.0	42.0	74.0	-32.0	H	P	156.0	187.0	
7.440	3.0	20.5	35.6	7.3	-34.1	0.0	0.0	29.4	54.0	-24.6	H	A	156.0	187.0	
4.960	3.0	31.5	32.8	5.9	-34.8	0.0	0.0	35.4	74.0	-38.6	V	P	100.0	22.0	
4.960	3.0	19.1	32.8	5.9	-34.8	0.0	0.0	23.0	54.0	-31.0	V	A	100.0	22.0	
7.440	3.0	33.0	35.6	7.3	-34.1	0.0	0.0	41.9	74.0	-32.1	V	P	150.0	163.0	
7.440	3.0	20.0	35.6	7.3	-34.1	0.0	0.0	28.9	54.0	-25.1	V	A	150.0	163.0	

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

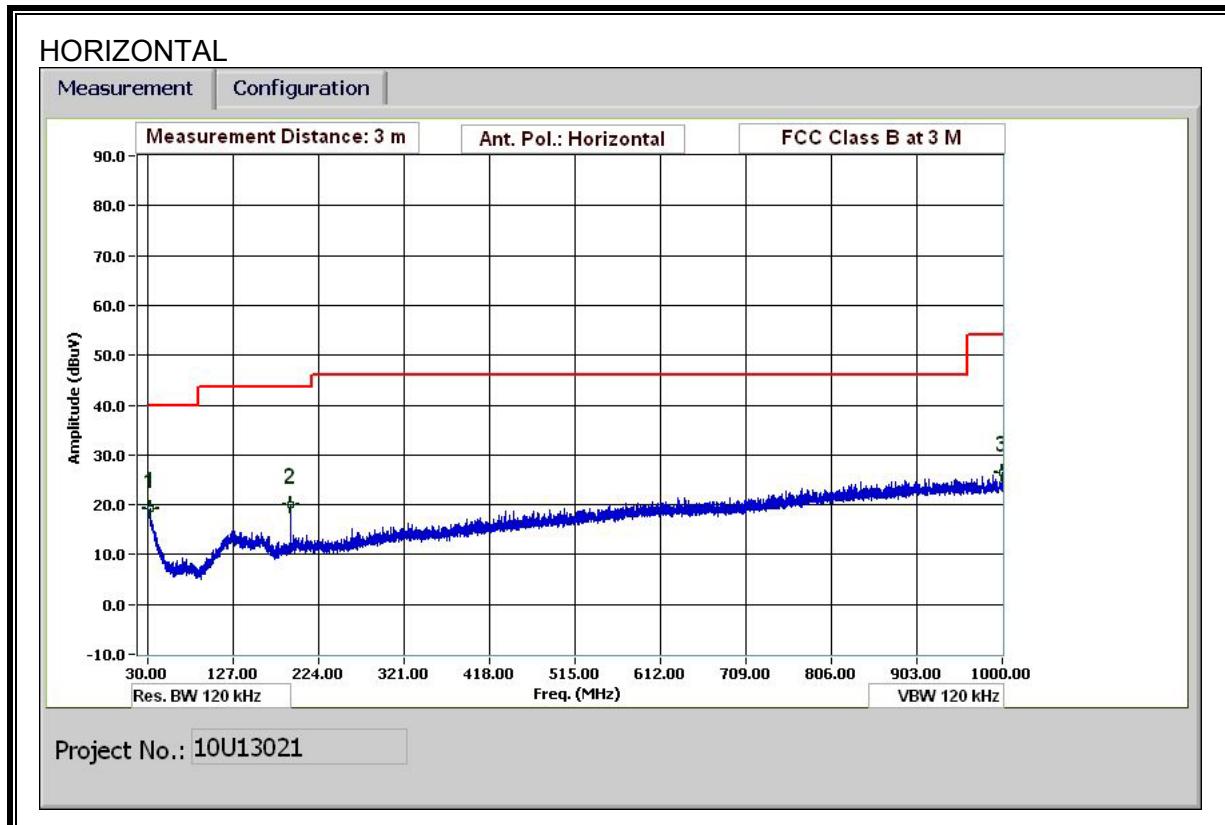
7.3. WORST-CASE RECEIVER ABOVE 1 GHz

High Frequency Measurement Compliance Certification Services, Fremont 3m Chamber																																																																																																																													
<p>Test Engr: Vien Tran Date: 01/14/10 Project #: 10U13021 Company: Kyocera EUT Description: Tri-Band Phone EUT M/N: K53-02 Test Target: IC RSS Mode Oper: Rx Mode</p> <p><u>Test Equipment:</u></p> <table border="1"> <tr> <td>Horn 1-18GHz</td> <td>Pre-amplifier 1-26GHz</td> <td>Pre-amplifier 26-40GHz</td> <td colspan="2">Horn > 18GHz</td> <td>Limit</td> </tr> <tr> <td>T60; S/N: 2238 @3m</td> <td>T34 HP 8449B</td> <td></td> <td></td> <td></td> <td>RX RSS 210</td> </tr> <tr> <td colspan="6">Hi Frequency Cables</td> </tr> <tr> <td>3' cable 22807700</td> <td>12' cable 22807600</td> <td>20' cable 22807500</td> <td>HPF</td> <td>Reject Filter</td> <td>Peak Measurements RBW=VBW=1MHz</td> </tr> <tr> <td>3' cable 22807700</td> <td>12' cable 22807600</td> <td>20' cable 22807500</td> <td></td> <td></td> <td>Average Measurements RBW=1MHz, VBW=10Hz</td> </tr> </table> <p>Measurement Data:</p> <table border="1"> <thead> <tr> <th>f GHz</th> <th>Dist (m)</th> <th>Read Pk dBuV</th> <th>Read Avg. dBuV</th> <th>AF dB/m</th> <th>CL dB</th> <th>Amp dB</th> <th>D Corr dB</th> <th>Fltr dB</th> <th>Peak dBuV/m</th> <th>Avg dBuV/m</th> <th>Pk Lim dBuV/m</th> <th>Avg Lim dBuV/m</th> <th>Pk Mar dB</th> <th>Avg Mar dB</th> <th>Notes (V/H)</th> </tr> </thead> <tbody> <tr> <td>1.134</td> <td>3.0</td> <td>48.8</td> <td>34.9</td> <td>24.9</td> <td>2.5</td> <td>-36.1</td> <td></td> <td>0.0</td> <td>38.2</td> <td>24.3</td> <td>74</td> <td>54</td> <td>-35.8</td> <td>-29.7</td> <td>V</td> </tr> <tr> <td>1.134</td> <td>3.0</td> <td>49.7</td> <td>35.1</td> <td>24.9</td> <td>2.5</td> <td>-36.1</td> <td></td> <td>0.0</td> <td>39.1</td> <td>24.5</td> <td>74</td> <td>54</td> <td>-34.9</td> <td>-29.5</td> <td>H</td> </tr> </tbody> </table> <p>Notes: No other emissions were detected above system noise floor</p> <p>Definitions:</p> <table> <tr> <td>f</td> <td>Measurement Frequency</td> <td>Amp</td> <td>Preamp Gain</td> <td>Avg Lim</td> <td>Average Field Strength Limit</td> </tr> <tr> <td>Dist</td> <td>Distance to Antenna</td> <td>D Corr</td> <td>Distance Correct to 3 meters</td> <td>Pk Lim</td> <td>Peak Field Strength Limit</td> </tr> <tr> <td>Read</td> <td>Analyzer Reading</td> <td>Avg</td> <td>Average Field Strength @ 3 m</td> <td>Avg Mar</td> <td>Margin vs. Average Limit</td> </tr> <tr> <td>AF</td> <td>Antenna Factor</td> <td>Peak</td> <td>Calculated Peak Field Strength</td> <td>Pk Mar</td> <td>Margin vs. Peak Limit</td> </tr> <tr> <td>CL</td> <td>Cable Loss</td> <td>HPF</td> <td>High Pass Filter</td> <td></td> <td></td> </tr> </table>																		Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz		Limit	T60; S/N: 2238 @3m	T34 HP 8449B				RX RSS 210	Hi Frequency Cables						3' cable 22807700	12' cable 22807600	20' cable 22807500	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz	3' cable 22807700	12' cable 22807600	20' cable 22807500			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)	1.134	3.0	48.8	34.9	24.9	2.5	-36.1		0.0	38.2	24.3	74	54	-35.8	-29.7	V	1.134	3.0	49.7	35.1	24.9	2.5	-36.1		0.0	39.1	24.5	74	54	-34.9	-29.5	H	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		
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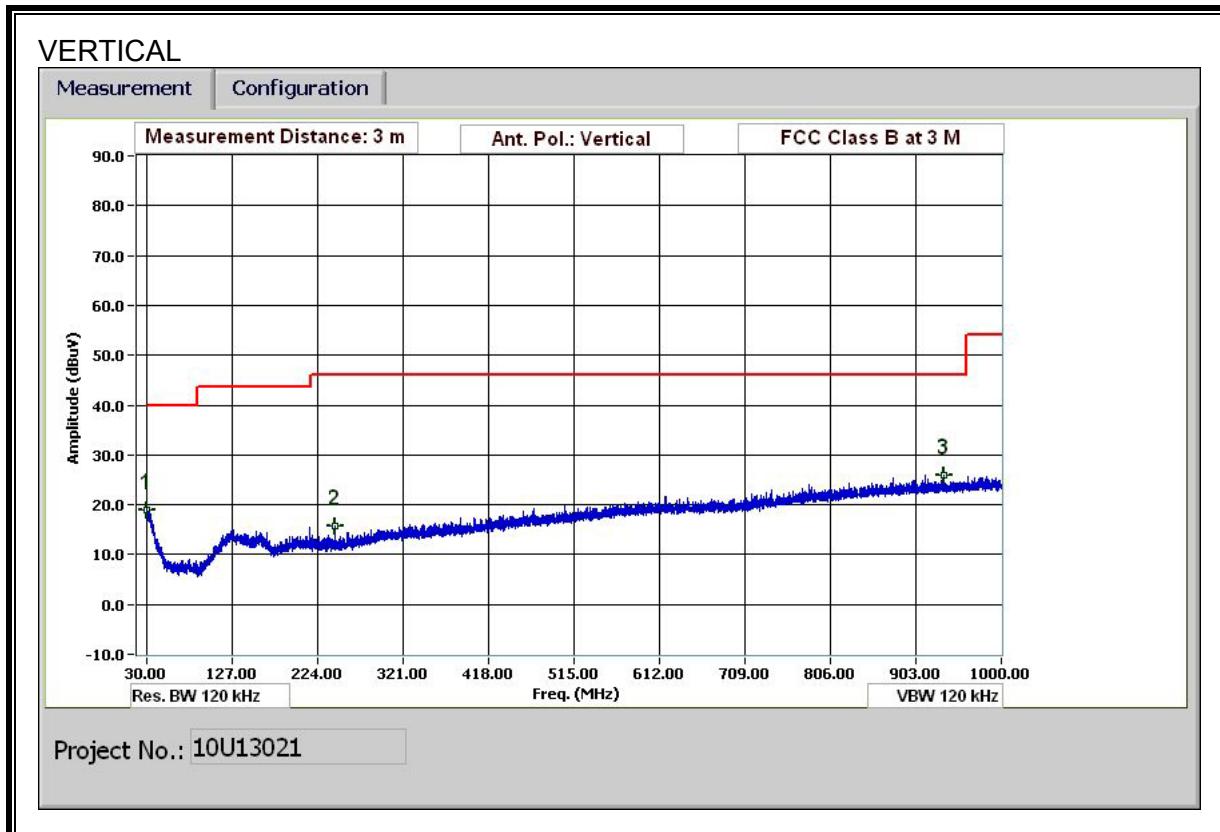
7.4. WORST-CASE BELOW 1 GHz

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

PLOTS



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



DATA

30-1000MHz Frequency Measurement Compliance Certification Services, Fremont 3m Chamber													
Test Engr:	Vien Tran												
Date:	01/14/10												
Project #:	10U13021												
Company:	Kyocera												
EUT Description:	Tri-Band Phone												
EUT M/N:	K53-02												
Test Target:	FCC Class B												
Mode Oper:	Tx Below 1GHz_Worst-Case												
f	Measurement Frequency	Amp	Preamp Gain							Margin	Margin vs. Limit		
Dist	Distance to Antenna	D	Corr	Distance Correct to 3 meters									
Read	Analyzer Reading	Filter	Filter	Insert Loss									
AF	Antenna Factor	Corr.	Calculated	Field Strength									
CL	Cable Loss	Limit	Field Strength	Limit									
f MHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filter dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol V/H	Det. P/A/QP	Notes
Horizontal													
33.600	3.0	28.8	18.2	0.5	28.4	0.0	0.0	19.1	40.0	-20.9	H	P	
192.007	3.0	34.8	11.4	1.1	27.4	0.0	0.0	19.9	43.5	-23.6	H	P	
999.760	3.0	28.4	22.7	2.9	27.6	0.0	0.0	26.4	54.0	-27.6	H	P	
Vertical													
30.600	3.0	27.2	19.7	0.5	28.4	0.0	0.0	18.9	40.0	-21.1	V	P	
243.369	3.0	30.1	11.8	1.3	27.4	0.0	0.0	15.8	46.0	-30.2	V	P	
934.837	3.0	28.5	22.3	2.8	27.8	0.0	0.0	25.9	46.0	-20.1	V	P	
Note: No other emissions were detected above the system noise floor.													

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.

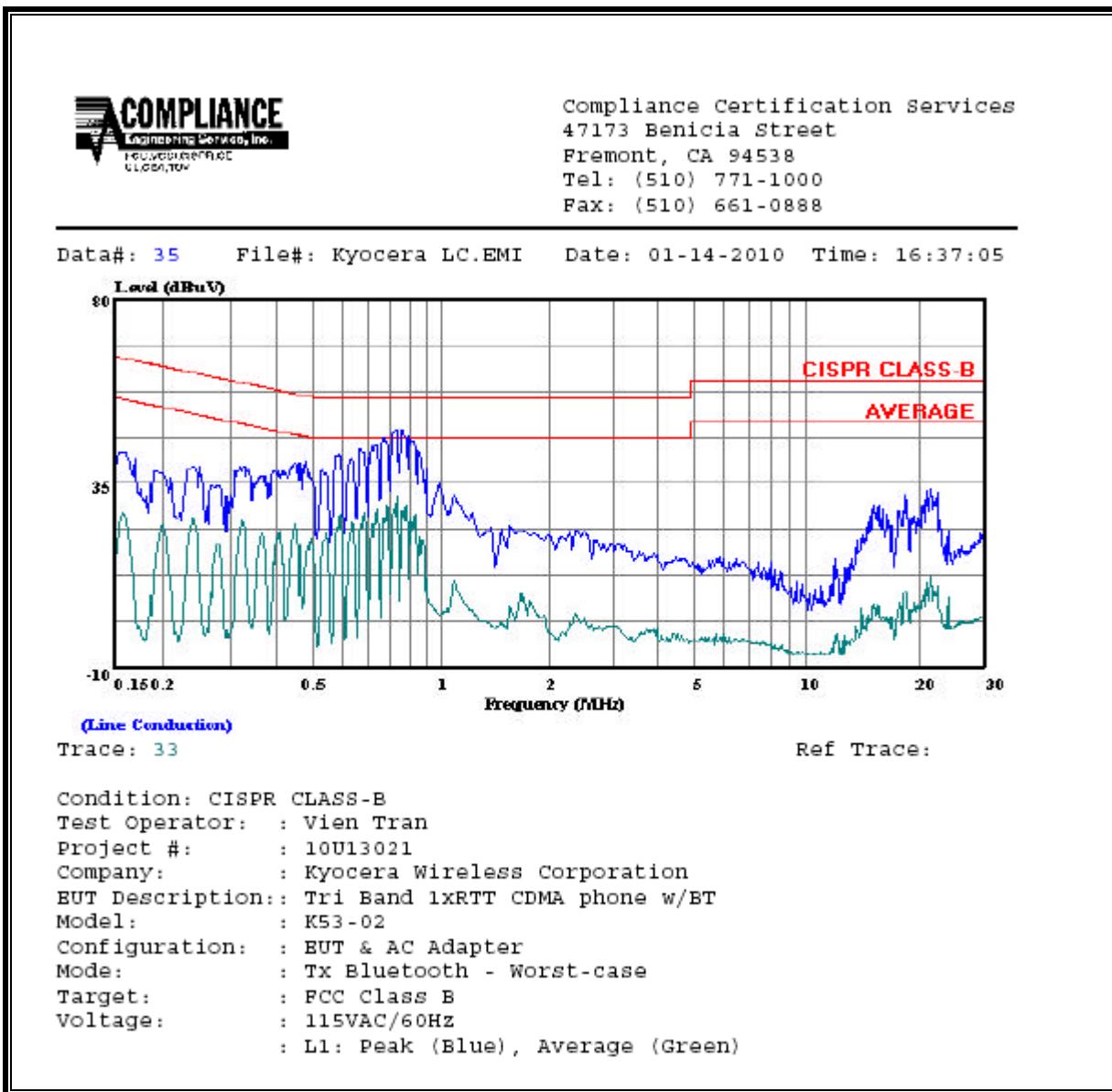
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS (EUT WITH AC ADAPTER)

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq. (MHz)	Reading			Closs (dB)	Limit	FCC_B	Margin		Remark
	PK (dBuV)	QP (dBuV)	AV (dBuV)				QP (dB)	AV (dB)	
0.16	42.45	--	27.92	0.00	65.52	55.52	-23.07	-27.60	L1
0.86	48.04	--	31.65	0.00	56.00	46.00	-7.96	-14.35	L1
21.49	33.81	--	12.17	0.00	60.00	50.00	-26.19	-37.83	L1
0.17	42.15	--	32.98	0.00	64.86	54.86	-22.71	-21.88	L2
0.86	45.01	--	34.43	0.00	56.00	46.00	-10.99	-11.57	L2
21.49	33.50	--	14.40	0.00	60.00	50.00	-26.50	-35.60	L2
6 Worst Data									

LINE 1 RESULTS



LINE 2 RESULTS

