TESTING
CERT #803.01, 803.02, 803.05, 803.06

ZILLIONTV CORPORATION
ADDENDUM TEST REPORT TO FC09-038

FOR THE

WIRELESS REMOTE CONTROL, ZR102

FCC PART 15 SUBPART C SECTIONS 15.207 & 15.247
AND RSS-210 ISSUE 7

TESTING

DATE OF ISSUE: APRIL 24, 2009

PREPARED FOR:

ZillionTV Corporation
1170 Kifer Road
Sunnyvale, CA 94086

PREPARED BY:

Joyce Walker
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

W.O. No.: 89171

Date of test: March 11-12, 2009

Report No.: FC09-038A

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ADMINISTRATIVE INFORMATION

DATE OF TEST: March 11-12, 2009

DATE OF RECEIPT: March 11, 2009

REPRESENTATIVE: Tom Woch

MANUFACTURER:
ZillionTV Corporation
1170 Kifer Road
Sunnyvale, CA 94086

TEST LOCATION:
CKC Laboratories, Inc.
110 Olinda Place
Brea, CA 92823

TEST METHOD: ANSI C63.4 (2003), RSS-210 Issue 7 and RSS GEN Issue 2

PURPOSE OF TEST:
Original: To perform the testing of the Wireless Remote Control, ZR102 with the requirements for FCC Part 15 Subpart C Sections 15.207 & 15.247 and RSS-210 Issue 7 devices.
Addendum A: To correct the spec limit used in section 15.247(d) OATS Radiated Spurious Emissions. Corrections were also made to 6dB Bandwidth table on page 13 and RF Power Output table on page 19. No new testing was performed.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE:

Steve Behm, Director of Engineering Services

Donald Jones, Senior EMC Engineer / Lab Manager

TEST PERSONNEL:

Armando Del Angel, Test Engineer

SUMMARY OF RESULTS

Test	Specification/Method	Results
Voltage Variation	FCC 15.31(e)	Pass
6 dB Bandwidth	FCC 15.247(a)(2)	Pass
RF Output Power	FCC 15.247(b)(3)	Pass
OATS Spurious Emissions	FCC 15.247(d)	Pass
Bandedge	FCC 15.247(d)	Pass
Peak Power Spectral Density	FCC 15.247(e)	Pass
99% Bandwidth	RSS-210 Issue 7 and RSS GEN Issue 2	Pass
Site File No.	FCC 318736 IC 3082C-1	

CONDITIONS DURING TESTING

No modifications to the EUT were necessary during testing.

FCC 15.31(m) Number Of Channels
This device was tested on three channels.

FCC 15.33(a) Frequency Ranges Tested
15.207 Conducted Emissions: 150 kHz – 30 MHz
15.247 Radiate Emissions: 9 kHz – 10 GHz.

EUT Operating Frequency
The EUT was operating at 903 MHz – 927 MHz

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

EQUIPMENT UNDER TEST

Wireless Remote Control
Manuf: ZillionTV Corporation
Model: ZR102
Serial: 013

PERIPHERAL DEVICES

The EUT was not tested with peripheral devices.

USB Base Station
Manuf: ZillionTV Corporation
Model: ZA100
Serial: 013

Laptop
Manuf: Lenovo
Model: T61
Serial: 10156

MEASUREMENT UNCERTAINTIES

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

REPORT OF EMISSIONS MEASUREMENTS

TESTING PARAMETERS

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within +15°C and + 35°C.
The relative humidity was between 20% and 75%.

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dBµV/m, the spectrum analyzer reading in dBµV was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dBµV)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dBµV/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. The following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used. When conducted emissions testing was performed, a 10 dB external attenuator was used with internal offset correction in the analyzer.

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer/receiver readings recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

FCC 15.31(e) VOLTAGE VARIATIONS

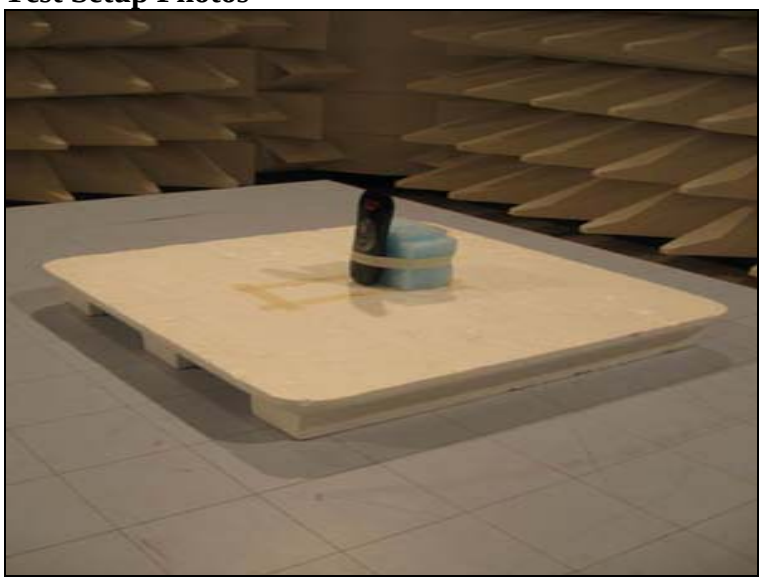
Test Equipment

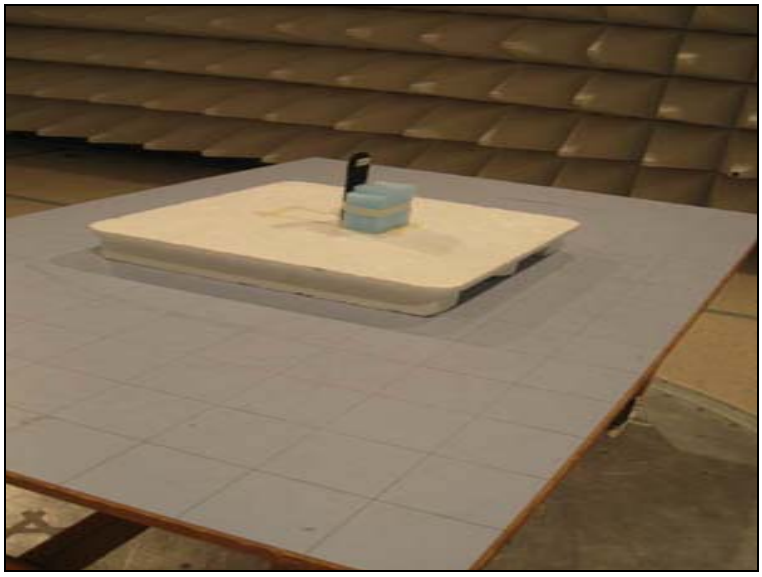
Asset #	Equipment	Serial #	Cal Date	Cal Due
ANP05361	Cable 6'	51	12/30/2008	12/30/2010
AN01994	Antenna	2453	12/22/2008	12/22/2010
ANP05366	Cable 30'	11	11/5/2008	11/5/2010
ANP05371	Cable 6'	49	11/10/2008	11/10/2010
ANP05360	Cable 20'	16	11/10/2008	11/10/2010
AN01517	HP 8447D Preamp	2944A08601	7/8/2008	7/8/2010
AN02872	Agilent E4440A	MY46186330	1/31/2008	1/31/2010

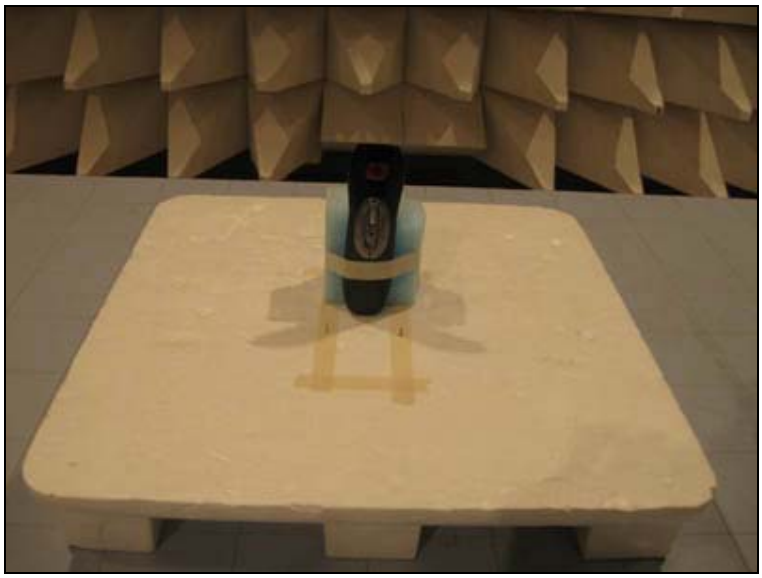
Test Conditions

The EUT is transmitting. Due to the lack of antenna connectors the test will be done through radiated measurements. Since the EUT is battery powered the test only requires to be performed with fresh batteries. EUT is located in the center of the test table over 10cm of Styrofoam. The support equipment is used before each test to set the EUT to the specific channel. The Fundamental emission will be maximized per ANSI C63.4 procedures. EMI test will be used with the solely purpose of accurate Field Strength data gathering. Same calculation from the RF power output test will be done in order to convert the field strength to power.

Test Setup Photos







Test Data

	Fresh Battery		Limit
	Vertical	**Horizontal**	
LOW	2.468dBm	-9.932dBm	30dBm
MID	1.968dBm	-14.132dBm	30dBm
HIGH	0.868dBm	-11.432dBm	30dBm

Test Data Sheets

Test Location: CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Zillion TV Corporation.**
Specification: **15.247(b)(3) RF power Output - Radiated**
Work Order #: **89171** Date: 3/12/2009
Test Type: **Radiated Scan** Time: 14:45:27
Equipment: **Wireless Remote Control** Sequence#: 1
Manufacturer: ZillionTV Corporation Tested By: Armando Del Angel
Model: ZR102
S/N: 013

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 20°C
Relative Humidity = 19%
Atmospheric Pressure = 103.7kPa

Testing Voltage Variation on Power FCC 15.31(e)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the LOW, MID and HIGH channels.
The support equipment is used before each test to set the EUT to the specific channel.
The Test is being done with fresh batteries.
Because of the lack of antenna connectors the test will have to be done through radiated scans.

RBW = 1MHz
VBW = 3MHz
Span = 5MHz
Sweep = 20ms

Transducer Legend:

T1=ANT AN01994 25-1000MHz	T2=CAB-ANP05360
T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	902.815M	100.2	+23.1 +0.3	+1.9 -29.3	+0.5	+2.0	+0.0 340	98.7	137.0 LOW	-38.3	Vert 100
2	914.792M	99.4	+23.3 +0.4	+1.9 -29.3	+0.5	+2.0	+0.0 340	98.2	137.0 MID	-38.8	Vert 100
3	926.766M	97.8	+23.5 +0.5	+2.0 -29.2	+0.5	+2.0	+0.0 340	97.1	137.0 HIGH	-39.9	Vert 100
4	902.808M	87.8	+23.1 +0.3	+1.9 -29.3	+0.5	+2.0	+0.0 204	86.3	137.0 LOW	-50.7	Horiz 100
5	914.796M	86.0	+23.3 +0.4	+1.9 -29.3	+0.5	+2.0	+0.0 204	84.8	137.0 MID	-52.2	Horiz 100
6	926.762M	82.8	+23.5 +0.5	+2.0 -29.2	+0.5	+2.0	+0.0 204	82.1	137.0 HIGH	-54.9	Horiz 100

FCC Part 15.247(a)(2) 6dB BANDWIDTH

Test Equipment

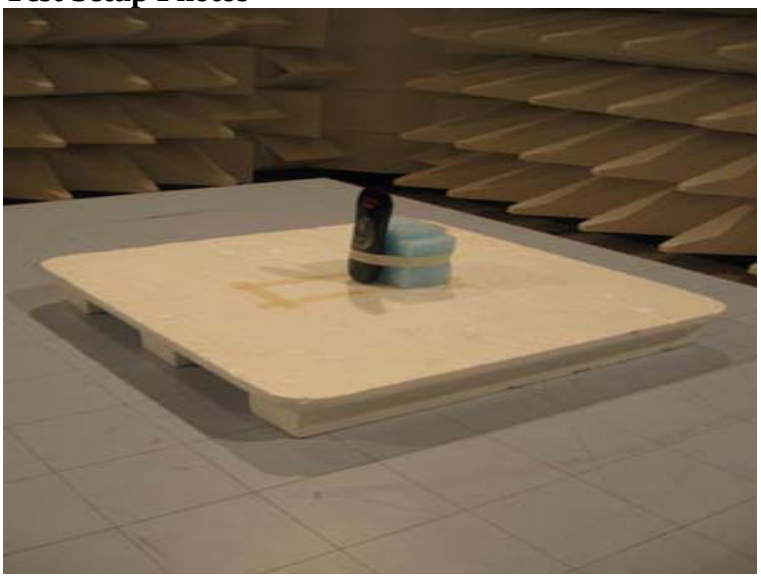
Asset #	Equipment	Serial #	Cal Date	Cal Due
ANP05361	Cable 6'	51	12/30/2008	12/30/2010
AN01994	Antenna	2453	12/22/2008	12/22/2010
ANP05366	Cable 30'	11	11/5/2008	11/5/2010
ANP05371	Cable 6'	49	11/10/2008	11/10/2010
ANP05360	Cable 20'	16	11/10/2008	11/10/2010
AN01517	HP 8447D Preamp	2944A08601	7/8/2008	7/8/2010
AN02872	Agilent E4440A	MY46186330	1/31/2008	1/31/2010

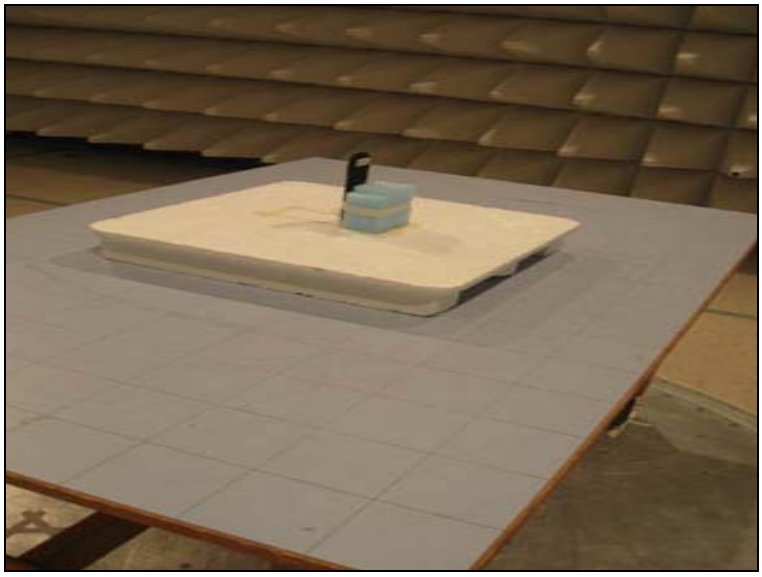
Test Conditions

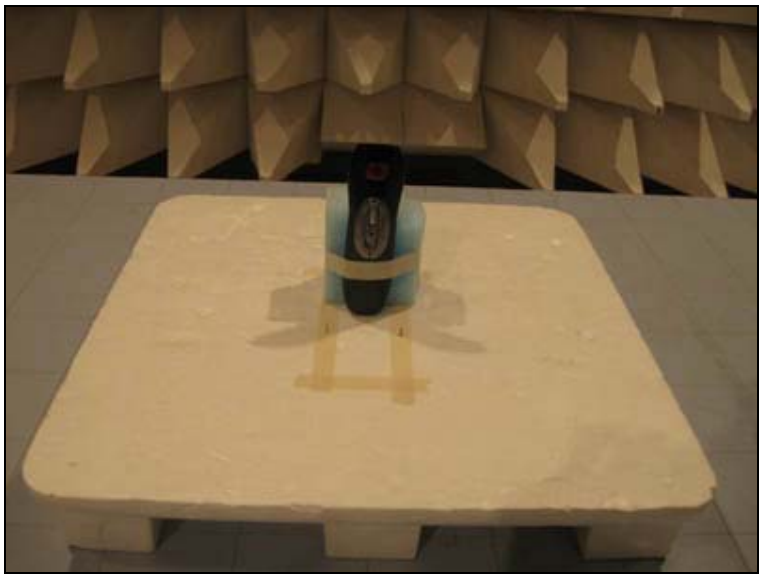
EUT is transmitting. Due to the lack of antenna connectors the test will be done through radiated measurements. EUT is located in the center of the test table over 10cm of Styrofoam. The support equipment is used before each test to set the EUT to the specific channel. PSA is on max hold, marker-to-peak function is set on the peak of each channel (LOW, MID, HIGH), and then the marker will be positioned 6dB below the peak on one side and then on the other side, the separation between those two is the 6dB bandwidth.

RBW = 120 kHz
VBW = 120 kHz
Span = Wide enough to see all the signal

Test Setup Photos





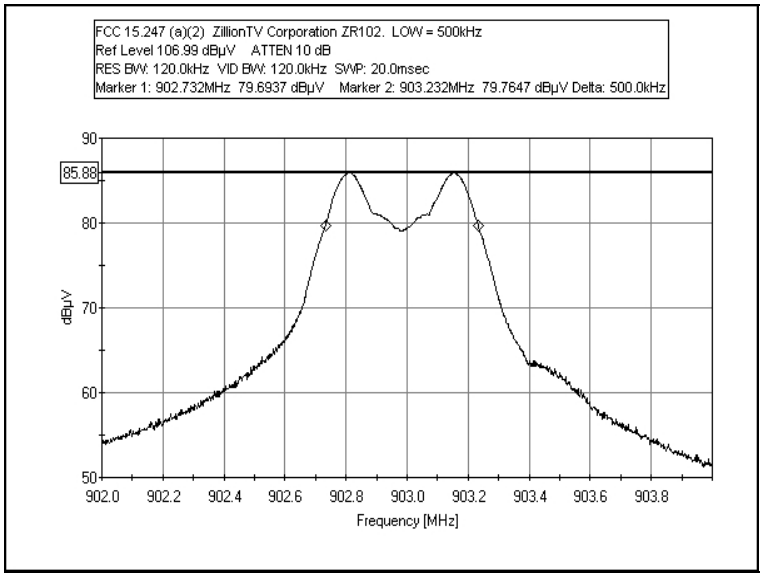


Test Data

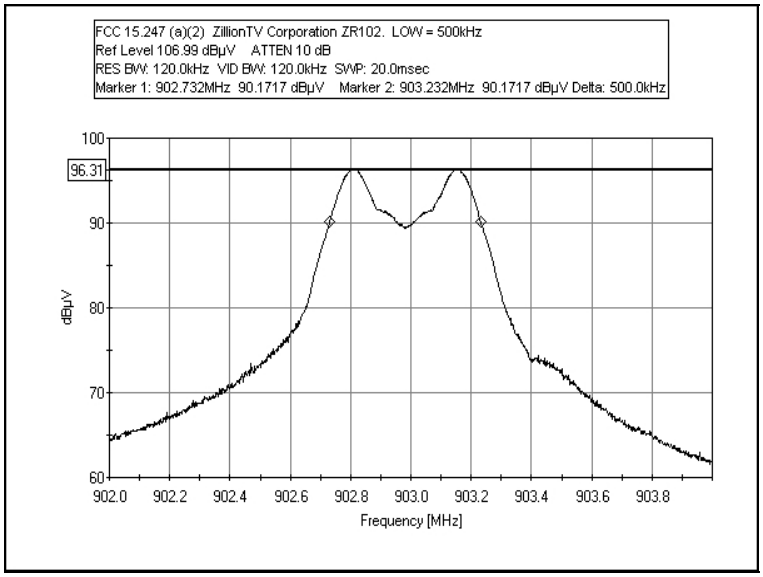
Channel	6dB Bandwidth		Limit
	Vertical	Horizontal	
LOW	500kHz	500kHz	500kHz
MID	502kHz	502kHz	500kHz
HIGH	500kHz	500kHz	500kHz

Test Plots

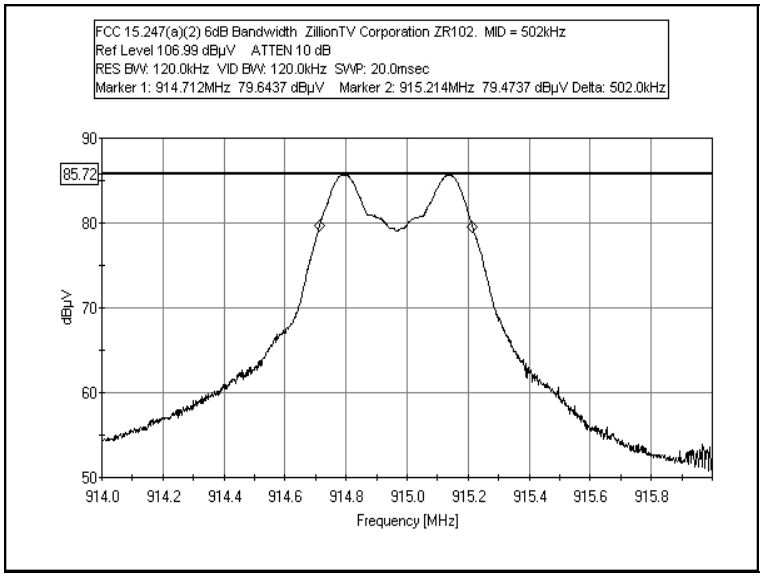
FCC 15.247(a)(2) 6dB BANDWIDTH – LOW CHANNEL HORIZONTAL



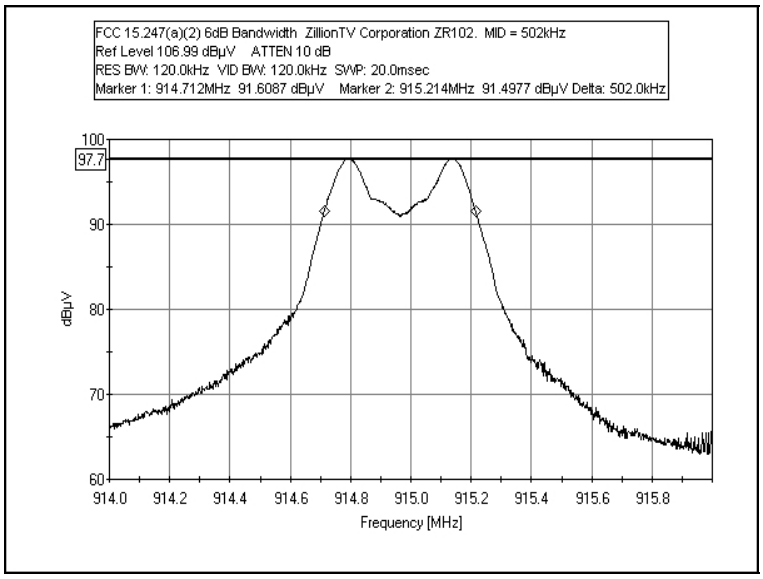
FCC 15.247(a)(2) 6dB BANDWIDTH – LOW CHANNEL VERTICAL



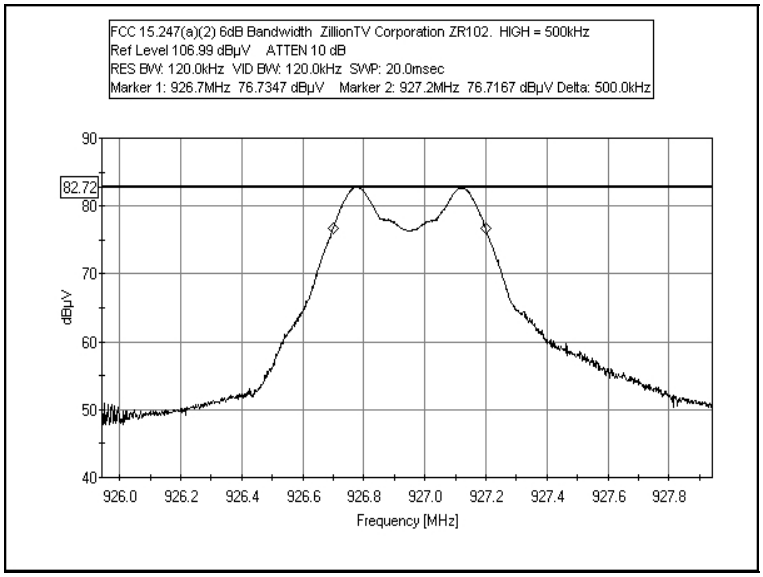
FCC 15.247(a)(2) 6dB BANDWIDTH – MID CHANNEL HORIZONTAL



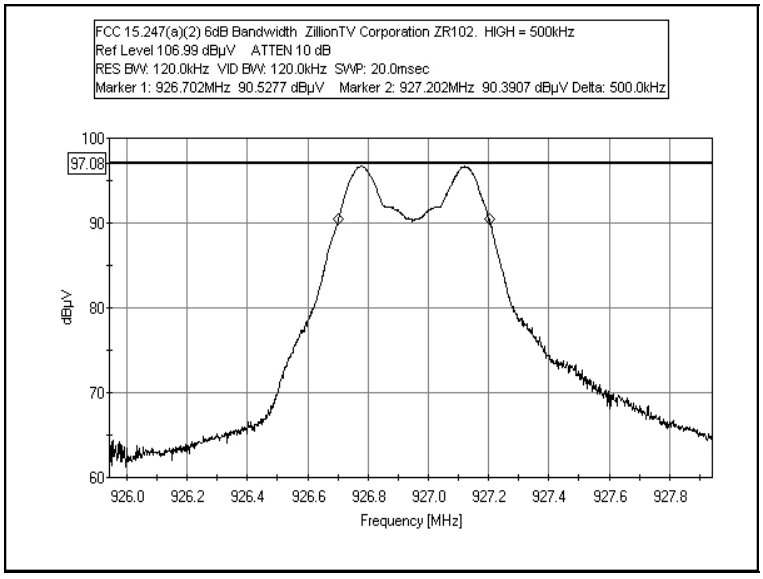
FCC 15.247(a)(2) 6dB BANDWIDTH – MID CHANNEL VERTICAL



FCC 15.247(a)(2) 6dB BANDWIDTH – HIGH CHANNEL HORIZONTAL



FCC 15.247(a)(2) 6dB BANDWIDTH – HIGH CHANNEL VERTICAL



FCC Part 15.247(b)(3) RF POWER OUTPUT

Test Equipment

Asset #	Equipment	Serial #	Cal Date	Cal Due
ANP05361	Cable 6'	51	12/30/2008	12/30/2010
AN01994	Antenna	2453	12/22/2008	12/22/2010
ANP05366	Cable 30'	11	11/5/2008	11/5/2010
ANP05371	Cable 6'	49	11/10/2008	11/10/2010
ANP05360	Cable 20'	16	11/10/2008	11/10/2010
AN01517	HP 8447D Preamp	2944A08601	7/8/2008	7/8/2010
AN02872	Agilent E4440A	MY46186330	1/31/2008	1/31/2010

Test Conditions

The EUT is transmitting. Due to the lack of antenna connectors the test will be done through radiated measurements. EUT is located in the center of the test table over 10cm of Styrofoam. The support equipment is used before each test to set the EUT to the specific channel. The Fundamental's emission will be maximized per ANSI C63.4 procedures. EMI test will be used with the solely purpose of accurate Field Strength data gathering. The following calculation will be used per FCC procedures in order to obtain the transmitter peak power:

P = (E*d)^2 / (30*G)

E: Is the field strength in V/m

G: Is the numeric gain of the transmitting antenna with reference to an isotropic radiator.

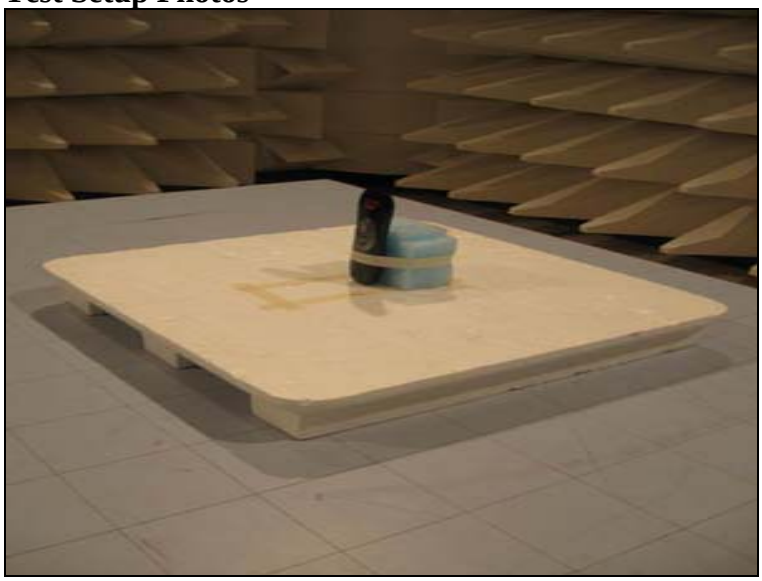
d: Is the distance at which the measurement is being executed.

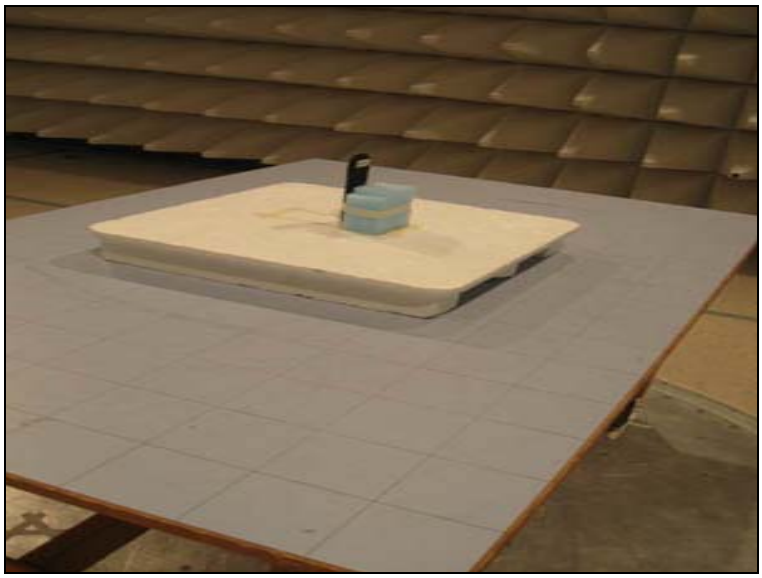
RBW = 1 MHz

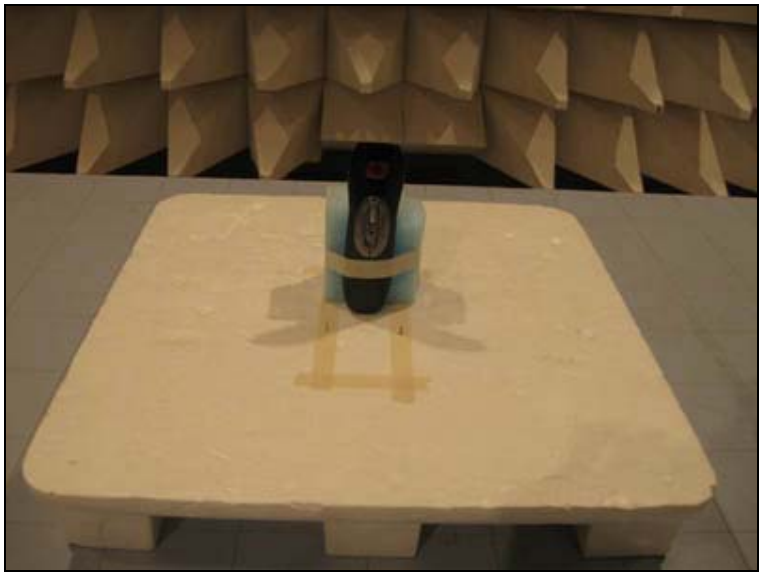
VBW = 1 MHz

Span = Wide enough to see all the signal

Test Setup Photos







Test Data

	Vertical		Horizontal		LIMIIT
	F/S	**Power**	**F/S**	**Power**	
LOW	98.5dBuV	2.26dBm	85.7dBuV	-10.53dBm	30dBm
MID	98.2dBuV	1.97dBm	85.3dBuV	-10.93dBm	30dBm
HIGH	97.1dBuV	0.87dBm	82.1dBuV	-14.13dBm	30dBm

Test Location: CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Zillion TV Corporation.**
Specification: **15.247(b)(3) RF power Output - Radiated**
Work Order #: **89171** Date: 3/11/2009
Test Type: **Radiated Scan** Time: 14:01:25
Equipment: **Wireless Remote Control** Sequence#: 1
Manufacturer: ZillionTV Corporation Tested By: Armando Del Angel
Model: ZR102
S/N: 013

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 20°C
Relative Humidity = 19%
Atmospheric Pressure = 103.7kPa

Testing RF Power Output FCC 15.247(b)(3)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the LOW, MID and HIGH channels.
The support equipment is used before each test to set the EUT to the specific channel.
The Test is being done with fresh batteries.
Because of the lack of antenna connectors the test will have to be done through radiated scans.

RBW = 1MHz
VBW = 3MHz
Span = 5MHz
Sweep = 20ms

Transducer Legend:

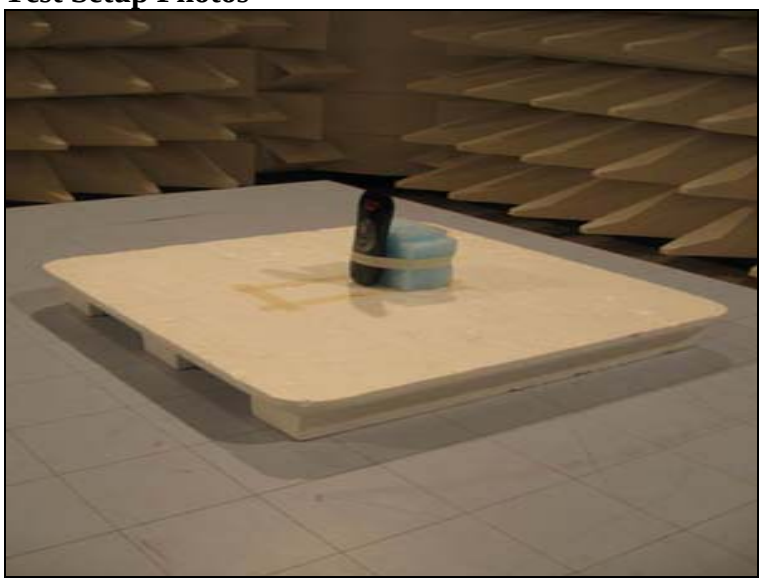
T1=ANT AN01994 25-1000MHz	T2=CAB-ANP05360
T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808

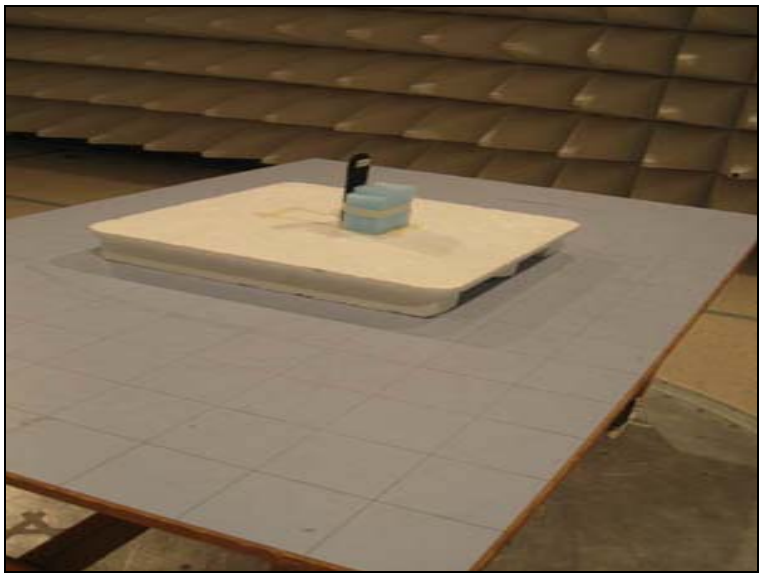
Measurement Data: Reading listed by margin. Test Distance: 3 Meters

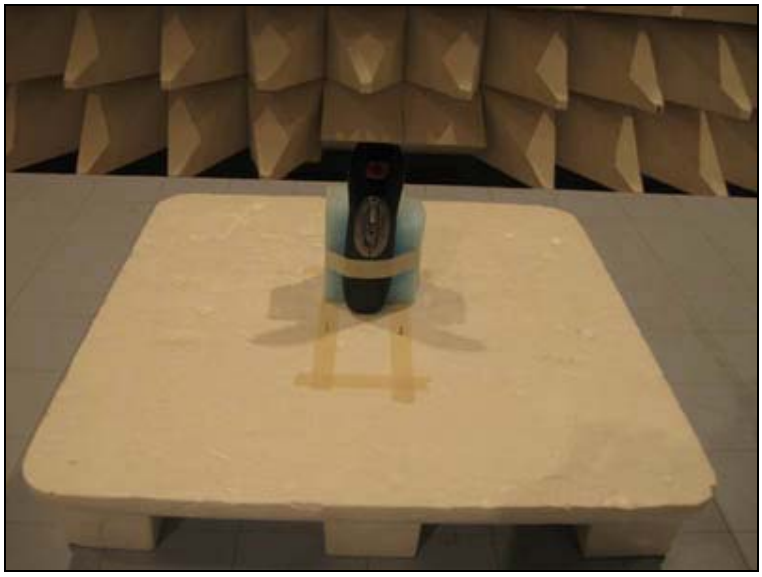
#	Freq	Rdng	T1 T5	T2 T6	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	902.815M	100.0	+23.1 +0.3	+1.9 -29.3	+0.5	+2.0	+0.0 340	98.5	137.0 LOW	-38.5	Vert 100
2	914.792M	99.4	+23.3 +0.4	+1.9 -29.3	+0.5	+2.0	+0.0 340	98.2	137.0 MID	-38.8	Vert 100
3	926.766M	97.8	+23.5 +0.5	+2.0 -29.2	+0.5	+2.0	+0.0 340	97.1	137.0 HIGH	-39.9	Vert 100
4	902.808M	87.2	+23.1 +0.3	+1.9 -29.3	+0.5	+2.0	+0.0 204	85.7	137.0 LOW	-51.3	Horiz 100
5	914.796M	86.5	+23.3 +0.4	+1.9 -29.3	+0.5	+2.0	+0.0 204	85.3	137.0 MID	-51.7	Horiz 100
6	926.762M	82.8	+23.5 +0.5	+2.0 -29.2	+0.5	+2.0	+0.0 204	82.1	137.0 HIGH	-54.9	Horiz 100

FCC 15.247(d) OATS RADIATED SPURIOUS EMISSIONS

Test Setup Photos







Test Data Sheets

Test Location: CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Zillion TV Corporation.**
Specification: **FCC 15.247/15.209**
Work Order #: **89171** Date: 3/12/2009
Test Type: **Radiated Scan** Time: 14:00:05
Equipment: **Wireless Remote Control** Sequence#: 2
Manufacturer: ZillionTV Corporation Tested By: Armando Del Angel
Model: ZR102
S/N: 013

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360
Heliax cable	N/A	07/22/2008	07/22/2010	AN05545
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03123
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03121
EMCO 3115 Horn	9606-4854	11/12/2007	11/12/2009	AN01412
HP 83017A Pre-amp	3123A00464	10/02/2007	10/02/2009	AN01271
High Pass Filter	2	05/01/2008	05/01/2010	02750
Mag Loop	2156	06/04/2008	06/04/2010	AN00052

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 20°C
Rel. Humidity = 19%
Atm. Pressure = 103.7kPa

Testing Radiated Spurious Emissions per FCC 15.247(d)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the LOW channel.
The support equipment is used before each test to set the EUT to the specific channel.
The Test is being done with fresh batteries.
Because of the lack of antenna connectors the test will have to be done trhough radiated scans.

0.009-0.150MHz RBW = 200Hz, VBW = 2kHz
0.150-30MHz RBW = 9kHz, VBW = 91kHz
30-1000MHz RBW = 120kHz, VBW = 1.2MHz
1000-10000MHz RBW = 1MHz, VBW = 8MHz

Transducer Legend:

T1=ANT AN01994 25-1000MHz	T2=CAB-ANP05360
T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808
T7=AN01271 HP PreAmplifier	T8=ANT-AN01412-111207
T9=Filter 1GHz HP AN02750	T10=CAB-ANP03121-120208
T11=CAB-ANP03123-120208	T12=CAB-ANP05545-072208
T13=ANT- AN00052-06042008	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9 T13	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	5417.898M	37.3	+0.0 +0.0 +0.3 +0.0	+0.0 +0.0 +2.3	+0.0 -33.1 +1.0	+0.0 +34.5 +3.9	+0.0	46.2	54.0	-7.8	Horiz 99
2	7222.864M Ambient	32.6	+0.0 +0.0 +0.3 +0.0	+0.0 +0.0 +2.3	+0.0 -34.7 +1.1	+0.0 +36.3 +4.7	+0.0	42.6	54.0	-11.4	Horiz 99
3	900.000M QP	35.3	+23.1 +0.3 +0.0 +0.0	+1.9 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 204	33.8	46.0	-12.2	Horiz 100
^	900.000M	42.9	+23.1 +0.3 +0.0 +0.0	+1.9 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 360	41.4	46.0	-4.6	Horiz 100
5	930.210M	33.3	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 63	32.6	46.0	-13.4	Horiz 100
6	1805.886M	38.2	+0.0 +0.0 +0.4 +0.0	+0.0 +0.0 +1.1	+0.0 -33.8 +0.5	+0.0 +26.5 +2.2	+0.0 360	35.1	54.0	-18.9	Horiz 99
7	949.390M Ambient	23.8	+23.8 +0.5 +0.0 +0.0	+1.9 -29.2 +0.0	+0.5 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0	23.4	46.0	-22.6	Horiz 100
8	810.800M Ambient	23.9	+22.6 +0.5 +0.0 +0.0	+1.9 -29.5 +0.0	+0.4 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 360	21.8	46.0	-24.2	Horiz 100
9	659.200M Ambient	25.3	+20.4 +0.4 +0.0 +0.0	+1.6 -29.7 +0.0	+0.4 +0.0 +0.0	+1.8 +0.0 +0.0	+0.0 360	20.2	46.0	-25.8	Horiz 100

10	458.170M	27.6	+17.4	+1.6	+0.3	+1.6	+0.0	19.7	46.0	-26.3	Horiz
	Ambient		+0.5	-29.3	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
11	578.200k	35.2	+0.0	+0.1	+0.0	+0.0	-40.0	5.3	32.4	-27.1	90deg
	Ambient		+0.1	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+9.9								
12	530.800M	24.2	+18.8	+1.5	+0.4	+1.6	+0.0	17.3	46.0	-28.7	Horiz
	Ambient		+0.4	-29.6	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
13	973.470M	23.6	+24.1	+1.8	+0.5	+2.2	+0.0	23.6	54.0	-30.4	Horiz
	Ambient		+0.5	-29.1	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
14	235.390M	24.5	+11.7	+1.0	+0.2	+1.0	+0.0	10.2	46.0	-35.8	Horiz
	Ambient		+0.4	-28.6	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
15	66.190M	25.5	+5.7	+0.4	+0.1	+0.4	+0.0	3.0	40.0	-37.0	Horiz
	Ambient		+0.1	-29.2	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
16	12.110M	13.2	+0.0	+0.2	+0.0	+0.2	-40.0	-17.3	29.5	-46.8	90deg
	Ambient		+0.1	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+9.0								
17	903.156M	87.2	+23.1	+1.9	+0.5	+2.0	+0.0	85.7	137.0	-51.3	Horiz
			+0.3	-29.3	+0.0	+0.0	204		Fundamental		100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
18	27.070M	10.5	+0.0	+0.3	+0.0	+0.3	-40.0	-21.8	29.5	-51.3	90deg
	Ambient		+0.2	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+6.9								
19	89.800k	35.0	+0.0	+0.0	+0.0	+0.0	-80.0	-35.0	28.5	-63.5	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+10.0								
20	41.060k	41.1	+0.0	+0.0	+0.0	+0.0	-80.0	-28.3	35.3	-63.6	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+10.6								
21	58.280k	38.4	+0.0	+0.0	+0.0	+0.0	-80.0	-31.5	32.3	-63.8	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+10.1								
22	14.440k	45.3	+0.0	+0.0	+0.0	+0.0	-80.0	-20.1	44.4	-64.5	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+14.6								

Test Location:	CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717		
Customer:	**Zillion TV Corporation.**		
Specification:	**FCC 15.247/15.209**		
Work Order #:	**89171**	Date:	3/12/2009
Test Type:	**Radiated Scan**	Time:	13:43:34
Equipment:	**Wireless Remote Control**	Sequence#:	3
Manufacturer:	ZillionTV Corporation	Tested By:	Armando Del Angel
Model:	ZR102		
S/N:	013		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360
Heliax cable	N/A	07/22/2008	07/22/2010	AN05545
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03123
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03121
EMCO 3115 Horn	9606-4854	11/12/2007	11/12/2009	AN01412
HP 83017A Pre-amp	3123A00464	10/02/2007	10/02/2009	AN01271
High Pass Filter	2	05/01/2008	05/01/2010	02750
Mag Loop	2156	06/04/2008	06/04/2010	AN00052

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 20°C
Rel. Humidity = 19%
Atm. Pressure = 103.7kPa

Testing Radiated Spurious Emissions per FCC 15.247(d)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the MID channel.
The support equipment is used before each test to set the EUT to the specific channel.
The Test is being done with fresh batteries.
Because of the lack of antenna connectors the test will have to be done trhough radiated scans.

0.009-0.150MHz RBW = 200Hz, VBW = 2kHz
0.150-30MHz RBW = 9kHz, VBW = 91kHz
30-1000MHz RBW = 120kHz, VBW = 1.2MHz
1000-10000MHz RBW = 1MHz, VBW = 8MHz

Transducer Legend:

T1=ANT AN01994 25-1000MHz	T2=CAB-ANP05360
T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808
T7=AN01271 HP PreAmplifier	T8=ANT-AN01412-111207
T9=Filter 1GHz HP AN02750	T10=CAB-ANP03121-120208
T11=CAB-ANP03123-120208	T12=CAB-ANP05545-072208
T13=ANT- AN00052-06042008	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9 T13	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	8236.236M	36.2	+0.0 +0.0 +0.3 +0.0	+0.0 +0.0 +2.7	+0.0 -34.3 +1.4	+0.0 +37.5 +5.2	+0.0 56	49.0	54.0	-5.0	Vert 101
2	5490.874M	40.5	+0.0 +0.0 +0.3 +0.0	+0.0 +0.0 +2.0	+0.0 -33.3 +0.8	+0.0 +34.7 +3.9	+0.0 29	48.9	54.0	-5.1	Vert 101
3	6405.998M	40.6	+0.0 +0.0 +0.2 +0.0	+0.0 +0.0 +2.3	+0.0 -34.5 +1.2	+0.0 +34.6 +4.3	+0.0 34	48.7	54.0	-5.3	Vert 101
4	1830.324M	45.1	+0.0 +0.0 +0.4 +0.0	+0.0 +0.0 +1.1	+0.0 -33.7 +0.5	+0.0 +26.6 +2.2	+0.0 360	42.2	54.0	-11.8	Vert 101
5	940.000M	33.8	+23.6 +0.5 +0.0 +0.0	+1.9 -29.2 +0.0	+0.5 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 360	33.2	46.0	-12.8	Vert 100
6	930.000M QP	33.8	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 339	33.1	46.0	-12.9	Vert 100
^	930.000M	47.2	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 360	46.5	46.0	+0.5	Vert 100
8	898.400M QP	34.5	+23.1 +0.3 +0.0 +0.0	+1.8 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 339	32.9	46.0	-13.1	Vert 100
^	898.400M	46.5	+23.1 +0.3 +0.0 +0.0	+1.8 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0	44.9	46.0	-1.1	Vert 100

10	3659.858M Ambient	35.3	+0.0 +0.0 +0.5 +0.0	+0.0 +0.0 +1.7	+0.0 -32.7 +0.6	+0.0 +31.9 +3.0	+0.0 360	40.3	54.0	-13.7	Vert 101
11	950.000M	27.9	+23.8 +0.5 +0.0 +0.0	+1.9 -29.2 +0.0	+0.5 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 360	27.5	46.0	-18.5	Vert 100
12	691.600M Ambient	32.5	+20.5 +0.2 +0.0 +0.0	+1.7 -29.6 +0.0	+0.4 +0.0 +0.0	+1.8 +0.0 +0.0	+0.0	27.5	46.0	-18.5	Vert 100
13	571.600M Ambient	32.2	+19.6 +0.4 +0.0 +0.0	+1.6 -29.6 +0.0	+0.4 +0.0 +0.0	+1.9 +0.0 +0.0	+0.0	26.5	46.0	-19.5	Vert 100
14	367.460M Ambient	34.6	+15.3 +0.3 +0.0 +0.0	+1.2 -28.7 +0.0	+0.3 +0.0 +0.0	+1.3 +0.0 +0.0	+0.0 360	24.3	46.0	-21.7	Vert 100
15	768.270k Ambient	35.2	+0.0 +0.0 +0.0 +10.0	+0.1 +0.0 +0.0	+0.0 +0.0 +0.0	+0.1 +0.0 +0.0	-40.0 307	5.4	29.9	-24.5	180de 141
16	212.360M Ambient	31.7	+10.1 +0.3 +0.0 +0.0	+0.9 -28.7 +0.0	+0.2 +0.0 +0.0	+1.0 +0.0 +0.0	+0.0 360	15.5	44.0	-28.5	Vert 100
17	984.230M Ambient	25.1	+24.2 +0.4 +0.0 +0.0	+1.9 -29.1 +0.0	+0.5 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 360	25.2	54.0	-28.8	Vert 100
18	54.440M Ambient	32.3	+6.9 +0.1 +0.0 +0.0	+0.4 -29.1 +0.0	+0.1 +0.0 +0.0	+0.4 +0.0 +0.0	+0.0 360	11.1	40.0	-28.9	Vert 100
19	920.000M QP	43.0	+23.4 +0.4 +0.0 +0.0	+2.0 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 339	42.0	76.8 20dBc limit applied	-34.8	Vert 100
^	920.000M	54.8	+23.4 +0.4 +0.0 +0.0	+2.0 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 339	53.8	76.8 20dBc limit applied	-23.0	Vert 100
21	914.794M	98.0	+23.3 +0.4 +0.0 +0.0	+1.9 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 339	96.8	137.0 Fundamental	-40.2	Vert 100
22	17.495M Ambient	12.9	+0.0 +0.2 +0.0 +8.5	+0.3 +0.0 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	-40.0 166	-17.8	29.5	-47.3	180de 141

23	149.360k Ambient	46.6	+0.0 +0.0 +0.0 +10.0	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	-80.0 80	-23.4	24.1	-47.5	180de 141
24	28.490M Ambient	13.7	+0.0 +0.2 +0.0 +7.0	+0.3 +0.0 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	-40.0 359	-18.5	29.5	-48.0	180de 141
25	34.010k Ambient	40.7	+0.0 +0.0 +0.0 +11.1	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	-80.0	-28.2	37.0	-65.2	180de 141
26	17.150k Ambient	42.4	+0.0 +0.0 +0.0 +13.7	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	-80.0	-23.9	42.9	-66.8	180de 141

Test Location:	CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717		
Customer:	**Zillion TV Corporation.**		
Specification:	**FCC 15.247/15.209**		
Work Order #:	**89171**	Date:	3/12/2009
Test Type:	**Radiated Scan**	Time:	14:06:39
Equipment:	**Wireless Remote Control**	Sequence#:	4
Manufacturer:	ZillionTV Corporation	Tested By:	Armando Del Angel
Model:	ZR102		
S/N:	013		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360
Heliax cable	N/A	07/22/2008	07/22/2010	AN05545
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03123
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03121
EMCO 3115 Horn	9606-4854	11/12/2007	11/12/2009	AN01412
HP 83017A Pre-amp	3123A00464	10/02/2007	10/02/2009	AN01271
High Pass Filter	2	05/01/2008	05/01/2010	02750
Mag Loop	2156	06/04/2008	06/04/2010	AN00052

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 20°C
Rel. Humidity = 19%
Atm. Pressure = 103.7kPa

Testing Radiated Spurious Emissions per FCC 15.247(d)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the MID channel.
The support equipment is used before each test to set the EUT to the specific channel.
The Test is being done with fresh batteries.
Because of the lack of antenna connectors the test will have to be done trhough radiated scans.

0.009-0.150MHz RBW = 200Hz, VBW = 2kHz
0.150-30MHz RBW = 9kHz, VBW = 91kHz
30-1000MHz RBW = 120kHz, VBW = 1.2MHz
1000-10000MHz RBW = 1MHz, VBW = 8MHz

Transducer Legend:

T1=ANT AN01994 25-1000MHz	T2=CAB-ANP05360
T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808
T7=AN01271 HP PreAmplifier	T8=ANT-AN01412-111207
T9=Filter 1GHz HP AN02750	T10=CAB-ANP03121-120208
T11=CAB-ANP03123-120208	T12=CAB-ANP05545-072208
T13=ANT- AN00052-06042008	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9 T13	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	900.000M	33.5	+23.1 +0.3 +0.0 +0.0	+1.9 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0	32.0	46.0	-14.0	Horiz 100
2	1829.636M	41.4	+0.0 +0.0 +0.4 +0.0	+0.0 +0.0 +1.1	+0.0 -33.7 +0.5	+0.0 +26.6 +2.2	+0.0	38.5	54.0	-15.5	Horiz 99
3	931.540M	29.0	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 359	28.3	46.0	-17.7	Horiz 100
4	5488.829M Ave	27.0	+0.0 +0.0 +0.3 +0.0	+0.0 +0.0 +2.0	+0.0 -33.3 +0.8	+0.0 +34.7 +3.9	+0.0 323	35.4	54.0	-18.6	Horiz 131
^	5488.829M	43.4	+0.0 +0.0 +0.3 +0.0	+0.0 +0.0 +2.0	+0.0 -33.3 +0.8	+0.0 +34.7 +3.9	+0.0 323	51.8	54.0	-2.2	Horiz 131
6	789.600M Ambient	26.4	+22.3 +0.5 +0.0 +0.0	+1.8 -29.5 +0.0	+0.5 +0.0 +0.0	+1.9 +0.0 +0.0	+0.0	23.9	46.0	-22.1	Horiz 100
7	566.000M Ambient	26.7	+19.5 +0.4 +0.0 +0.0	+1.6 -29.6 +0.0	+0.4 +0.0 +0.0	+1.9 +0.0 +0.0	+0.0	20.9	46.0	-25.1	Horiz 100
8	362.290M Ambient	28.5	+15.2 +0.3 +0.0 +0.0	+1.2 -28.7 +0.0	+0.3 +0.0 +0.0	+1.3 +0.0 +0.0	+0.0	18.1	46.0	-27.9	Horiz 100
9	774.220k Ambient	31.6	+0.0 +0.0 +0.0 +10.0	+0.1 +0.0 +0.0	+0.0 +0.0 +0.0	+0.1 +0.0 +0.0	-40.0 360	1.8	29.8	-28.0	90deg 141

10	998.460M	25.6	+24.4	+2.1	+0.5	+2.1	+0.0	25.9	54.0	-28.1	Horiz
	Ambient		+0.2	-29.0	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
11	964.370M	24.8	+24.0	+1.8	+0.5	+2.2	+0.0	24.7	54.0	-29.3	Horiz
	Ambient		+0.5	-29.1	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
12	107.550M	28.3	+10.8	+0.6	+0.1	+0.6	+0.0	11.5	44.0	-32.5	Horiz
	Ambient		+0.2	-29.1	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
13	5.225M	16.8	+0.0	+0.2	+0.0	+0.2	-40.0	-12.7	29.5	-42.2	90deg
	Ambient		+0.1	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+10.0								
14	405.830k	40.6	+0.0	+0.1	+0.0	+0.0	-80.0	-29.4	15.4	-44.8	90deg
	Ambient		+0.1	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+9.8								
15	15.275M	12.9	+0.0	+0.2	+0.0	+0.2	-40.0	-17.9	29.5	-47.4	90deg
	Ambient		+0.1	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+8.7								
16	23.600M	13.3	+0.0	+0.3	+0.0	+0.3	-40.0	-18.9	29.5	-48.4	90deg
	Ambient		+0.2	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+7.0								
17	915.140M	85.9	+23.3	+1.9	+0.5	+2.0	+0.0	84.7	137.0	-52.3	Horiz
			+0.4	-29.3	+0.0	+0.0	204		Fundamental		100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
18	87.400k	36.5	+0.0	+0.0	+0.0	+0.0	-80.0	-33.5	28.8	-62.3	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+10.0								
19	127.600k	32.8	+0.0	+0.0	+0.0	+0.0	-80.0	-37.2	25.5	-62.7	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+10.0								
20	13.080k	41.3	+0.0	+0.0	+0.0	+0.0	-80.0	-23.5	45.3	-68.8	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+15.2								
21	51.600k	32.8	+0.0	+0.0	+0.0	+0.0	-80.0	-36.9	33.3	-70.2	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+10.3								
22	38.150k	33.8	+0.0	+0.0	+0.0	+0.0	-80.0	-35.5	36.0	-71.5	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+10.7								

Test Location:	CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717		
Customer:	**Zillion TV Corporation.**		
Specification:	**FCC 15.247/15.209**		
Work Order #:	**89171**	Date:	3/12/2009
Test Type:	**Radiated Scan**	Time:	13:40:04
Equipment:	**Wireless Remote Control**	Sequence#:	5
Manufacturer:	ZillionTV Corporation	Tested By:	Armando Del Angel
Model:	ZR102		
S/N:	013		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360
Heliax cable	N/A	07/22/2008	07/22/2010	AN05545
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03123
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03121
EMCO 3115 Horn	9606-4854	11/12/2007	11/12/2009	AN01412
HP 83017A Pre-amp	3123A00464	10/02/2007	10/02/2009	AN01271
High Pass Filter	2	05/01/2008	05/01/2010	02750
Mag Loop	2156	06/04/2008	06/04/2010	AN00052

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 20°C
Rel. Humidity = 19%
Atm. Pressure = 103.7kPa

Testing Radiated Spurious Emissions per FCC 15.247(d)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the HIGH channel.
The support equipment is used before each test to set the EUT to the specific channel.
The Test is being done with fresh batteries.
Because of the lack of antenna connectors the test will have to be done trhough radiated scans.

0.009-0.150MHz RBW = 200Hz, VBW = 2kHz
0.150-30MHz RBW = 9kHz, VBW = 91kHz
30-1000MHz RBW = 120kHz, VBW = 1.2MHz
1000-10000MHz RBW = 1MHz, VBW = 8MHz

Transducer Legend:

T1=ANT AN01994 25-1000MHz	T2=CAB-ANP05360
T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808
T7=AN01271 HP PreAmplifier	T8=ANT-AN01412-111207
T9=Filter 1GHz HP AN02750	T10=CAB-ANP03121-120208
T11=CAB-ANP03123-120208	T12=CAB-ANP05545-072208
T13=ANT- AN00052-06042008	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9 T13	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	940.010M	39.6	+23.6 +0.5 +0.0 +0.0	+1.9 -29.2 +0.0	+0.5 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 340	39.0	46.0	-7.0	Vert 100
2	1854.358M	47.5	+0.0 +0.0 +0.4 +0.0	+0.0 +0.0 +1.1	+0.0 -33.7 +0.5	+0.0 +26.8 +2.2	+0.0 29	44.8	54.0	-9.2	Vert 126
3	950.160M	33.9	+23.8 +0.5 +0.0 +0.0	+1.9 -29.2 +0.0	+0.5 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 340	33.5	46.0	-12.5	Vert 100
4	900.000M QP	33.2	+23.1 +0.3 +0.0 +0.0	+1.9 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 340	31.7	46.0	-14.3	Vert 100
^	900.000M	49.3	+23.1 +0.3 +0.0 +0.0	+1.9 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 340	47.8	46.0	+1.8	Vert 100
6	5560.515M Ave	26.9	+0.0 +0.0 +0.3 +0.0	+0.0 +0.0 +2.0	+0.0 -33.4 +0.7	+0.0 +34.7 +4.0	+0.0 300	35.2	54.0	-18.8	Vert 126
^	5560.515M	43.5	+0.0 +0.0 +0.3 +0.0	+0.0 +0.0 +2.0	+0.0 -33.4 +0.7	+0.0 +34.7 +4.0	+0.0 300	51.8	54.0	-2.2	Vert 126
8	804.000M Ambient	26.3	+22.5 +0.5 +0.0 +0.0	+1.9 -29.5 +0.0	+0.4 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0	24.1	46.0	-21.9	Vert 100
9	671.600M Ambient	29.0	+20.4 +0.3 +0.0 +0.0	+1.7 -29.7 +0.0	+0.4 +0.0 +0.0	+1.8 +0.0 +0.0	+0.0 27	23.9	46.0	-22.1	Vert 100

10	999.778M Ambient	30.3	+24.4 +0.2 +0.0 +0.0	+2.1 -29.0 +0.0	+0.5 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 340	30.6	54.0	-23.4	Vert 100
11	437.236M Ambient	28.7	+17.0 +0.5 +0.0 +0.0	+1.5 -29.2 +0.0	+0.3 +0.0 +0.0	+1.6 +0.0 +0.0	+0.0 360	20.4	46.0	-25.6	Vert 100
12	595.620k Ambient	35.5	+0.0 +0.1 +0.0 +9.9	+0.1 +0.0 +0.0	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	-40.0 360	5.6	32.1	-26.5	180de 141
13	996.640k Ambient	29.6	+0.0 +0.0 +0.0 +10.0	+0.1 +0.0 +0.0	+0.0 +0.0 +0.0	+0.1 +0.0 +0.0	-40.0 360	-0.2	27.6	-27.8	180de 141
14	85.986M Ambient	29.6	+8.3 +0.2 +0.0 +0.0	+0.5 -29.1 +0.0	+0.1 +0.0 +0.0	+0.5 +0.0 +0.0	+0.0	10.1	40.0	-29.9	Vert 100
15	930.140M QP	45.8	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 340	45.1	76.6 20dBc Limit applied	-31.5	Vert 100
^	930.140M	52.5	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 340	51.8	76.6 20dBc Limit applied	-24.8	Vert 100
17	216.000M Ambient	26.5	+10.3 +0.3 +0.0 +0.0	+0.9 -28.7 +0.0	+0.2 +0.0 +0.0	+1.0 +0.0 +0.0	+0.0	10.5	44.0	-33.5	Vert 100
18	926.778M	97.3	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 340	96.6	137.0 Fundamental	-40.4	Vert 100
19	16.700M Ambient	14.6	+0.0 +0.2 +0.0 +8.6	+0.3 +0.0 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	-40.0 62	-16.0	29.5	-45.5	180de 141
20	166.910k Ambient	47.6	+0.0 +0.0 +0.0 +10.0	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	-80.0 254	-22.4	23.1	-45.5	180de 141
21	249.000k Ambient	40.3	+0.0 +0.0 +0.0 +9.9	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	-80.0	-29.8	19.7	-49.5	180de 141

22	58.700k Ambient	38.8	+0.0 +0.0 +0.0 +10.1	+0.0 +0.0 +0.0 +0.0	+0.0 +0.0 +0.0 +0.0	+0.0 +0.0 +0.0 +0.0	-80.0 262	-31.1	32.2	-63.3	180de 141
23	121.900k Ambient	32.0	+0.0 +0.0 +0.0 +10.1	+0.0 +0.0 +0.0 +0.0	+0.0 +0.0 +0.0 +0.0	+0.0 +0.0 +0.0 +0.0	-80.0 360	-37.9	25.9	-63.8	180de 141
24	39.380k Ambient	40.8	+0.0 +0.0 +0.0 +10.6	+0.0 +0.0 +0.0 +0.0	+0.0 +0.0 +0.0 +0.0	+0.0 +0.0 +0.0 +0.0	-80.0	-28.6	35.7	-64.3	180de 141
25	10.580k Ambient	44.4	+0.0 +0.0 +0.0 +16.3	+0.0 +0.0 +0.0 +0.0	+0.0 +0.0 +0.0 +0.0	+0.0 +0.0 +0.0 +0.0	-80.0 113	-19.3	47.1	-66.4	180de 141

Test Location:	CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717		
Customer:	**Zillion TV Corporation.**		
Specification:	**FCC 15.247/15.209**		
Work Order #:	**89171**	Date:	3/12/2009
Test Type:	**Radiated Scan**	Time:	14:10:55
Equipment:	**Wireless Remote Control**	Sequence#:	6
Manufacturer:	ZillionTV Corporation	Tested By:	Armando Del Angel
Model:	ZR102		
S/N:	013		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360
Heliax cable	N/A	07/22/2008	07/22/2010	AN05545
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03123
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03121
EMCO 3115 Horn	9606-4854	11/12/2007	11/12/2009	AN01412
HP 83017A Pre-amp	3123A00464	10/02/2007	10/02/2009	AN01271
High Pass Filter	2	05/01/2008	05/01/2010	02750
Mag Loop	2156	06/04/2008	06/04/2010	AN00052

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 20°C
Rel. Humidity = 19%
Atm. Pressure = 103.7kPa

Testing Radiated Spurious Emissions per FCC 15.247(d)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the HIGH channel.
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The Test is being done with fresh batteries.
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Transducer Legend:

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T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808
T7=AN01271 HP PreAmplifier	T8=ANT-AN01412-111207
T9=Filter 1GHz HP AN02750	T10=CAB-ANP03121-120208
T11=CAB-ANP03123-120208	T12=CAB-ANP05545-072208
T13=ANT- AN00052-06042008	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9 T13	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	930.350M	34.6	+23.5	+2.0	+0.5	+2.0	+0.0	33.9	46.0	-12.1	Horiz
	Ambient		+0.5	-29.2	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
2	826.350M	34.4	+22.7	+1.8	+0.4	+2.0	+0.0	32.3	46.0	-13.7	Horiz
	Ambient		+0.4	-29.4	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
3	594.250M	34.8	+20.1	+1.6	+0.4	+1.9	+0.0	29.7	46.0	-16.3	Horiz
	Ambient		+0.5	-29.6	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
4	900.000M	31.1	+23.1	+1.9	+0.5	+2.0	+0.0	29.6	46.0	-16.4	Horiz
	Ambient		+0.3	-29.3	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
5	696.250M	34.4	+20.5	+1.7	+0.4	+1.8	+0.0	29.4	46.0	-16.6	Horiz
	Ambient		+0.2	-29.6	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
6	461.376M	34.4	+17.4	+1.5	+0.3	+1.6	+0.0	26.3	46.0	-19.7	Horiz
	Ambient		+0.4	-29.3	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
7	5562.845M	25.7	+0.0	+0.0	+0.0	+0.0	+0.0	34.0	54.0	-20.0	Horiz
	Ave		+0.0	+0.0	-33.4	+34.7	360				141
			+0.3	+1.9	+0.8	+4.0					
			+0.0								
^	5562.845M	43.4	+0.0	+0.0	+0.0	+0.0	+0.0	51.7	54.0	-2.3	Horiz
			+0.0	+0.0	-33.4	+34.7	360				141
			+0.3	+1.9	+0.8	+4.0					
			+0.0								
9	39.858M	32.9	+15.2	+0.4	+0.1	+0.4	+0.0	20.0	40.0	-20.0	Horiz
	Ambient		+0.1	-29.1	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

10	1853.562M	36.0	+0.0	+0.0	+0.0	+0.0	+0.0	33.3	54.0	-20.7	Horiz
			+0.0	+0.0	-33.7	+26.8					111
			+0.4	+1.1	+0.5	+2.2					
			+0.0								
11	984.740M	32.0	+24.2	+1.9	+0.5	+2.2	+0.0	32.1	54.0	-21.9	Horiz
	Ambient		+0.4	-29.1	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
12	286.716M	32.6	+13.2	+1.0	+0.3	+1.2	+0.0	20.2	46.0	-25.8	Horiz
	Ambient		+0.3	-28.4	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
13	168.756M	34.9	+9.9	+0.8	+0.2	+0.9	+0.0	18.1	44.0	-25.9	Horiz
	Ambient		+0.2	-28.8	+0.0	+0.0	18				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
14	5.050M	16.4	+0.0	+0.2	+0.0	+0.2	-40.0	-13.1	29.5	-42.6	90deg
	Ambient		+0.1	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+10.0								
15	241.330k	44.2	+0.0	+0.0	+0.0	+0.0	-80.0	-25.8	19.9	-45.7	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+10.0								
16	23.375M	10.1	+0.0	+0.3	+0.0	+0.3	-40.0	-22.0	29.5	-51.5	90deg
	Ambient		+0.2	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+7.1								
17	926.778M	81.6	+23.5	+2.0	+0.5	+2.0	+0.0	80.9	137.0	-56.1	Horiz
			+0.5	-29.2	+0.0	+0.0	204		Fundamental		100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
18	61.400k	39.0	+0.0	+0.0	+0.0	+0.0	-80.0	-30.9	31.8	-62.7	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	22				141
			+0.0	+0.0	+0.0	+0.0					
			+10.1								
19	13.620k	45.9	+0.0	+0.0	+0.0	+0.0	-80.0	-19.1	44.9	-64.0	90deg
	Ambient		+0.0	+0.0	+0.0	+0.0	310				141
			+0.0	+0.0	+0.0	+0.0					
			+15.0								

Test Location:	CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717		
Customer:	**Zillion TV Corporation.**		
Specification:	**FCC 15.247/15.209**		
Work Order #:	**89171**	Date:	3/12/2009
Test Type:	**Radiated Scan**	Time:	13:48:17
Equipment:	**Wireless Remote Control**	Sequence#:	1
Manufacturer:	ZillionTV Corporation	Tested By:	Armando Del Angel
Model:	ZR102		
S/N:	013		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360
Heliax cable	N/A	07/22/2008	07/22/2010	AN05545
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03123
High freq. Cable	N/A	12/02/2008	12/02/2010	AN03121
EMCO 3115 Horn	9606-4854	11/12/2007	11/12/2009	AN01412
HP 83017A Pre-amp	3123A00464	10/02/2007	10/02/2009	AN01271
High Pass Filter	2	05/01/2008	05/01/2010	02750
Mag Loop	2156	06/04/2008	06/04/2010	AN00052

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 20°C
Rel. Humidity = 19%
Atm. Pressure = 103.7kPa

Testing Radiated Spurious Emissions per FCC 15.247(d)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the LOW channel.
The support equipment is used before each test to set the EUT to the specific channel.
The Test is being done with fresh batteries.
Because of the lack of antenna connectors the test will have to be done trhough radiated scans.

0.009-0.150MHz RBW = 200Hz, VBW = 2kHz
0.150-30MHz RBW = 9kHz, VBW = 91kHz
30-1000MHz RBW = 120kHz, VBW = 1.2MHz
1000-10000MHz RBW = 1MHz, VBW = 8MHz

Transducer Legend:

T1=ANT AN01994 25-1000MHz	T2=CAB-ANP05360
T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808
T7=AN01271 HP PreAmplifier	T8=ANT-AN01412-111207
T9=Filter 1GHz HP AN02750	T10=CAB-ANP03121-120208
T11=CAB-ANP03123-120208	T12=CAB-ANP05545-072208
T13=ANT- AN00052-06042008	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9 T13	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	886.800M	40.9	+23.0 +0.2 +0.0 +0.0	+1.8 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 360	39.1	46.0	-6.9	Vert 100
2	858.400M	33.2	+22.9 +0.3 +0.0 +0.0	+1.7 -29.3 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 360	31.3	46.0	-14.7	Vert 100
3	1806.312M	41.5	+0.0 +0.0 +0.4 +0.0	+0.0 +0.0 +1.1	+0.0 -33.8 +0.5	+0.0 +26.5 +2.2	+0.0 12	38.4	54.0	-15.6	Vert 100
4	930.700M QP	30.6	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 342	29.9	46.0	-16.1	Vert 100
^	930.700M	47.9	+23.5 +0.5 +0.0 +0.0	+2.0 -29.2 +0.0	+0.5 +0.0 +0.0	+2.0 +0.0 +0.0	+0.0 342	47.2	46.0	+1.2	Vert 100
6	940.000M	30.3	+23.6 +0.5 +0.0 +0.0	+1.9 -29.2 +0.0	+0.5 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 342	29.7	46.0	-16.3	Vert 100
7	1805.500M	39.9	+0.0 +0.0 +0.4 +0.0	+0.0 +0.0 +1.1	+0.0 -33.8 +0.5	+0.0 +26.5 +2.2	+0.0 360	36.8	54.0	-17.2	Vert 100
8	950.000M	28.9	+23.8 +0.5 +0.0 +0.0	+1.9 -29.2 +0.0	+0.5 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 342	28.5	46.0	-17.5	Vert 100
9	3265.000M Ambient	31.2	+0.0 +0.0 +0.6 +0.0	+0.0 +0.0 +1.6	+0.0 -32.7 +0.8	+0.0 +31.0 +2.9	+0.0 360	35.4	54.0	-18.6	Vert 100

10	4395.000M	28.0	+0.0	+0.0	+0.0	+0.0	+0.0	34.2	54.0	-19.8	Vert
			+0.0	+0.0	-32.6	+32.5	360				100
			+0.2	+1.8	+0.8	+3.5					
			+0.0								
11	5416.874M	24.9	+0.0	+0.0	+0.0	+0.0	+0.0	33.8	54.0	-20.2	Vert
	Ave		+0.0	+0.0	-33.1	+34.5	297				149
			+0.3	+2.3	+1.0	+3.9					
			+0.0								
^	5416.874M	39.4	+0.0	+0.0	+0.0	+0.0	+0.0	48.3	54.0	-5.7	Vert
			+0.0	+0.0	-33.1	+34.5	297				149
			+0.3	+2.3	+1.0	+3.9					
			+0.0								
13	7225.265M	23.5	+0.0	+0.0	+0.0	+0.0	+0.0	33.5	54.0	-20.5	Vert
	Ave		+0.0	+0.0	-34.7	+36.3	297				149
			+0.3	+2.3	+1.1	+4.7					
			+0.0								
^	7225.265M	37.6	+0.0	+0.0	+0.0	+0.0	+0.0	47.6	54.0	-6.4	Vert
			+0.0	+0.0	-34.7	+36.3	297				149
			+0.3	+2.3	+1.1	+4.7					
			+0.0								
15	822.800M	26.9	+22.6	+1.8	+0.4	+2.0	+0.0	24.7	46.0	-21.3	Vert
	Ambient		+0.4	-29.4	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
16	727.600M	26.1	+21.1	+1.7	+0.5	+1.9	+0.0	22.2	46.0	-23.8	Vert
	Ambient		+0.5	-29.6	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
17	565.200M	27.5	+19.5	+1.6	+0.4	+1.9	+0.0	21.7	46.0	-24.3	Vert
	Ambient		+0.4	-29.6	+0.0	+0.0	360				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
18	389.550M	27.2	+15.9	+1.3	+0.3	+1.4	+0.0	17.6	46.0	-28.4	Vert
	Ambient		+0.4	-28.9	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
19	900.000M	46.6	+23.1	+1.9	+0.5	+2.0	+0.0	45.1	74.2	-29.1	Vert
	QP		+0.3	-29.3	+0.0	+0.0	339		20dBc limit applied		100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
^	900.000M	55.1	+23.1	+1.9	+0.5	+2.0	+0.0	53.6	74.2	-20.6	Vert
			+0.3	-29.3	+0.0	+0.0	360		20dBc limit applied		100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
21	992.840M	24.2	+24.3	+2.0	+0.5	+2.1	+0.0	24.4	54.0	-29.6	Vert
	Ambient		+0.3	-29.0	+0.0	+0.0	342				100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
22	85.930M	29.1	+8.3	+0.5	+0.1	+0.5	+0.0	9.6	40.0	-30.4	Vert
	Ambient		+0.2	-29.1	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

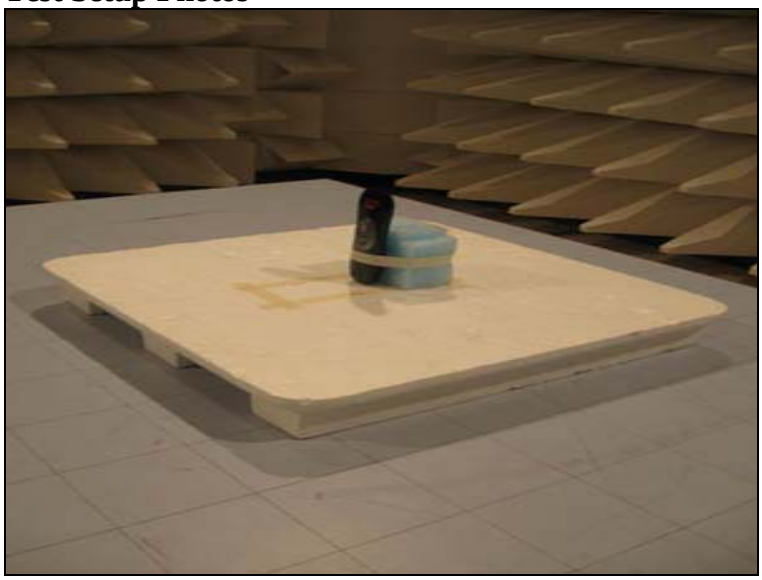
23	195.440M	28.7	+9.1	+0.9	+0.2	+1.0	+0.0	11.4	44.0	-32.6	Vert
	Ambient		+0.3	-28.8	+0.0	+0.0					100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
24	5.015M	16.9	+0.0	+0.2	+0.0	+0.2	-40.0	-12.6	29.5	-42.1	180de
	Ambient		+0.1	+0.0	+0.0	+0.0	46				141
			+0.0	+0.0	+0.0	+0.0					
			+10.0								
25	902.812M	95.7	+23.1	+1.9	+0.5	+2.0	+0.0	94.2	137.0	-42.8	Vert
			+0.3	-29.3	+0.0	+0.0	360		Fundamental		100
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
26	17.570M	12.1	+0.0	+0.3	+0.0	+0.3	-40.0	-18.6	29.5	-48.1	180de
	Ambient		+0.2	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+8.5								
27	119.800k	34.6	+0.0	+0.0	+0.0	+0.0	-80.0	-35.3	26.0	-61.3	180de
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+10.1								
28	50.500k	39.5	+0.0	+0.0	+0.0	+0.0	-80.0	-30.1	33.5	-63.6	180de
	Ambient		+0.0	+0.0	+0.0	+0.0	360				141
			+0.0	+0.0	+0.0	+0.0					
			+10.4								
29	18.590k	42.4	+0.0	+0.0	+0.0	+0.0	-80.0	-24.3	42.2	-66.5	180de
	Ambient		+0.0	+0.0	+0.0	+0.0					141
			+0.0	+0.0	+0.0	+0.0					
			+13.3								
30	10.500k	44.1	+0.0	+0.0	+0.0	+0.0	-80.0	-19.6	47.2	-66.8	180de
	Ambient		+0.0	+0.0	+0.0	+0.0	21				141
			+0.0	+0.0	+0.0	+0.0					
			+16.3								

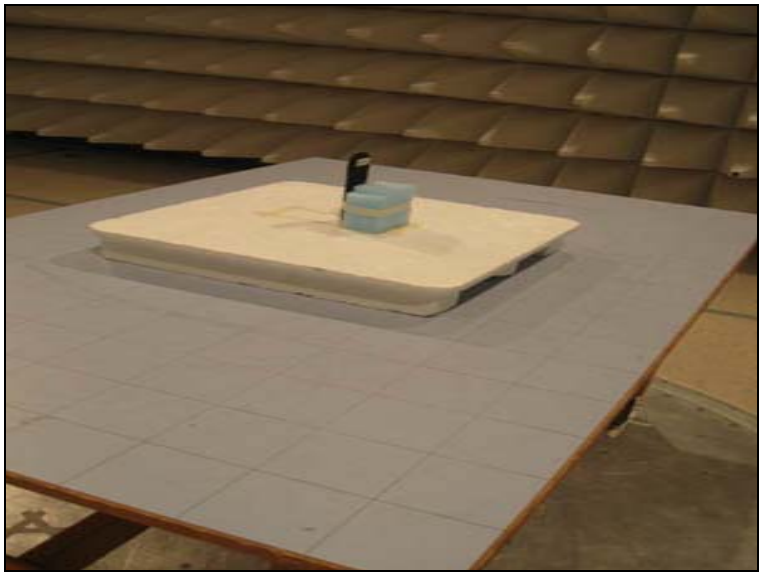
FCC 15.247(d) BANDEDGE

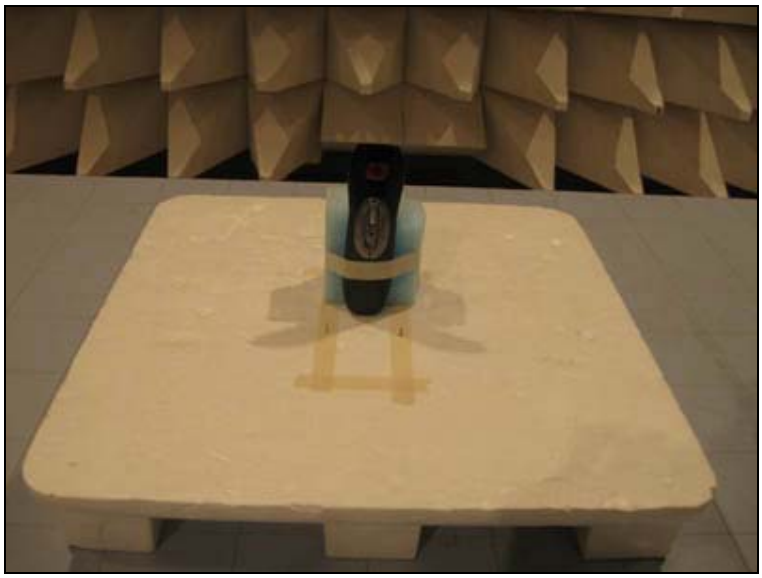
Test Equipment

Asset #	Equipment	Serial #	Cal Date	Cal Due
ANP05361	Cable 6'	51	12/30/2008	12/30/2010
AN01994	Antenna	2453	12/22/2008	12/22/2010
ANP05366	Cable 30'	11	11/5/2008	11/5/2010
ANP05371	Cable 6'	49	11/10/2008	11/10/2010
ANP05360	Cable 20'	16	11/10/2008	11/10/2010
AN01517	HP 8447D Preamp	2944A08601	7/8/2008	7/8/2010
AN02872	Agilent E4440A	MY46186330	1/31/2008	1/31/2010

Test Setup Photos

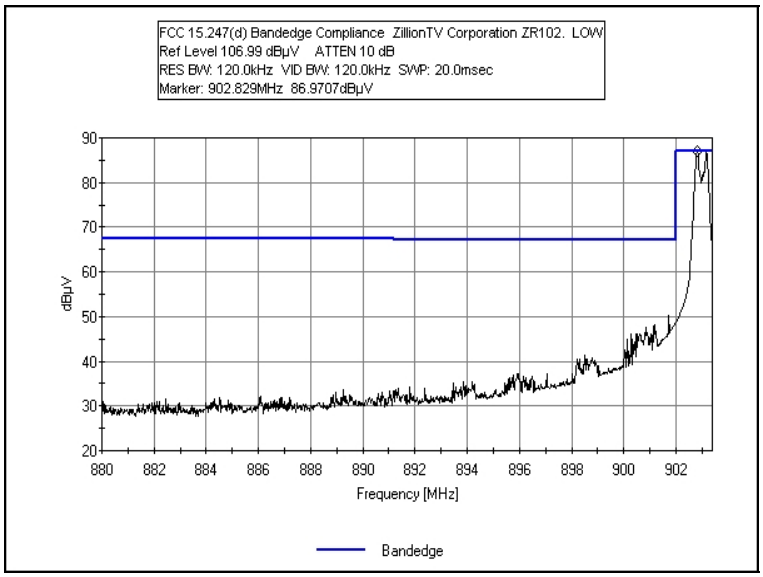




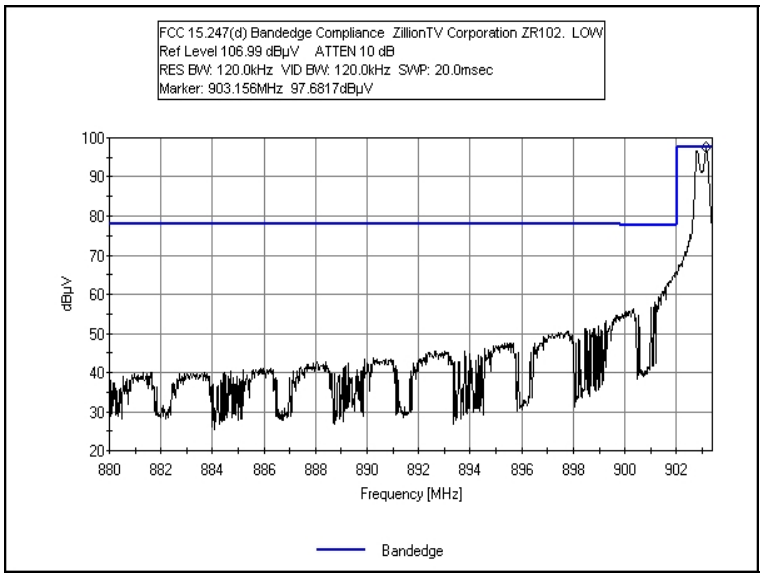


Test Plots

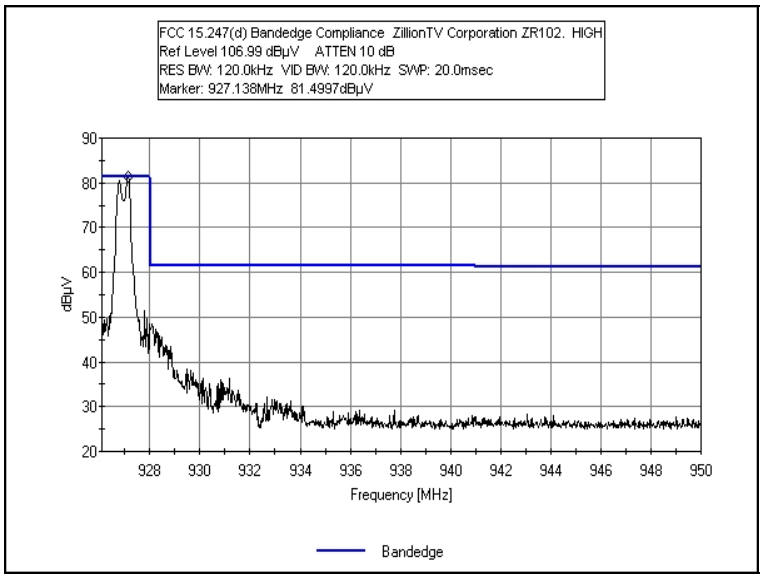
FCC 15.247(d) BANDEDGE – LOW CHANNEL HORIZONTAL



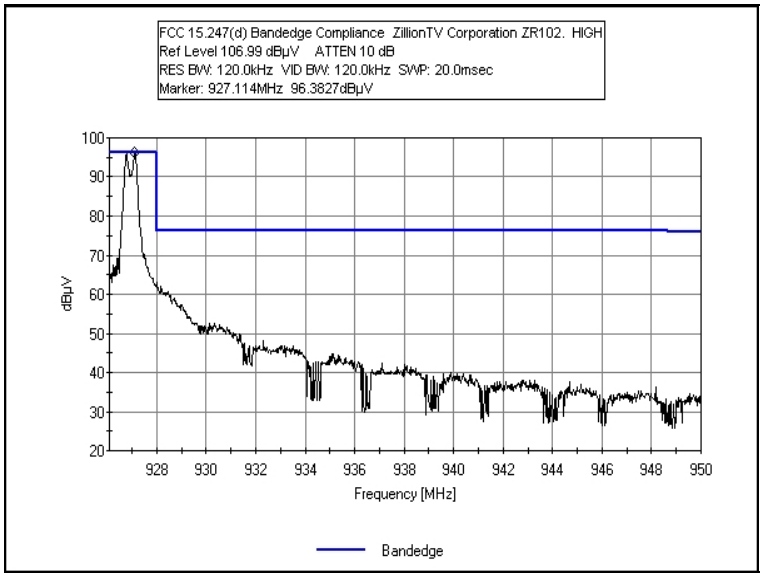
FCC 15.247(d) BANDEDGE – LOW CHANNEL VERTICAL



FCC 15.247(d) BANDEDGE – HIGH CHANNEL HORIZONTAL



FCC 15.247(d) BANDEDGE – HIGH CHANNEL VERTICAL



FCC 15.247(e) PEAK POWER SPECTRAL DENSITY

Test Equipment

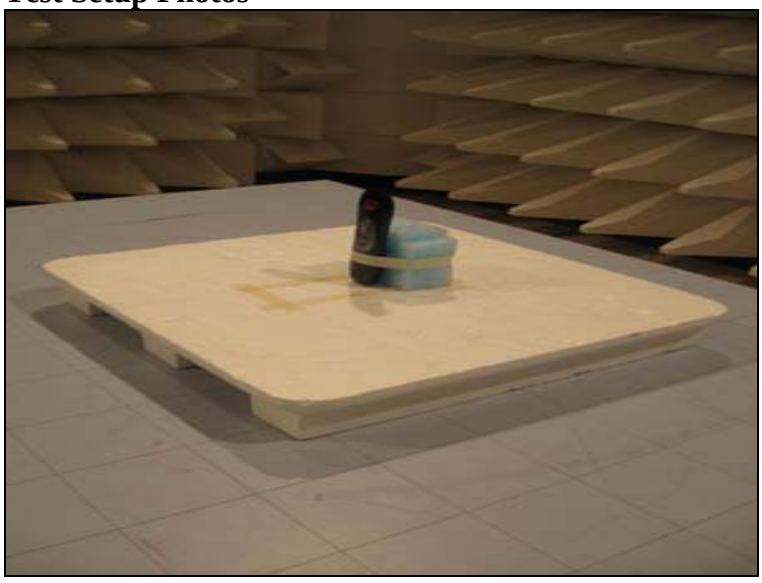
Asset #	Equipment	Serial #	Cal Date	Cal Due
ANP05361	Cable 6'	51	12/30/2008	12/30/2010
AN01994	Antenna	2453	12/22/2008	12/22/2010
ANP05366	Cable 30'	11	11/5/2008	11/5/2010
ANP05371	Cable 6'	49	11/10/2008	11/10/2010
ANP05360	Cable 20'	16	11/10/2008	11/10/2010
AN01517	HP 8447D Preamp	2944A08601	7/8/2008	7/8/2010
AN02872	Agilent E4440A	MY46186330	1/31/2008	1/31/2010

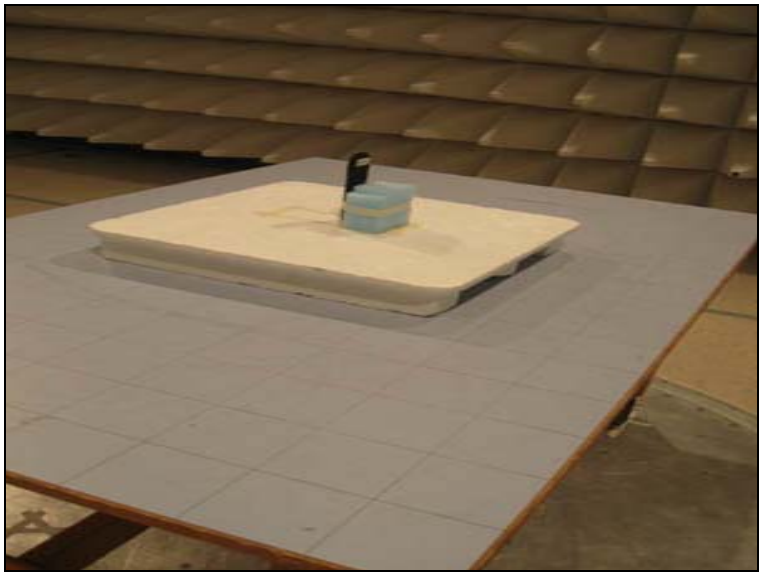
Test Conditions

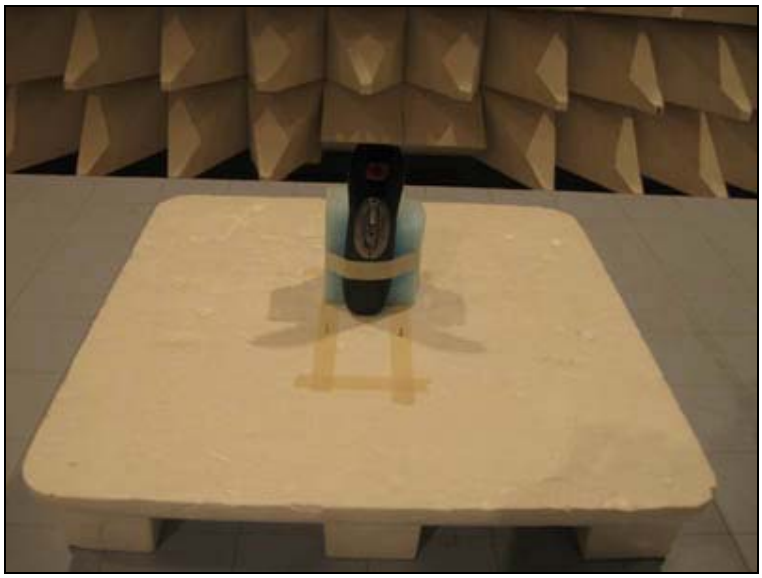
The EUT is transmitting. Due to the lack of antenna connectors the test will be done through radiated measurements. EUT is located in the center of the test table over 10cm of Styrofoam. The support equipment is used before each test to set the EUT to the specific channel. PSA is on max hold centered at the desired channel, EMI test will be used with the solely purpose of accurate Field Strength data gathering. Same calculation from the RF power output test will be done in order to convert the field strength to power.

RBW = 3 kHz
VBW = 9 kHz
Span = 300 kHz
Sweep Time = 100s

Test Setup Photos







Test Data

	Vertical	Horizontal	Limit
LOW	-9.032dBm/3kHz	-19.232dBm/3kHz	8dBm/3kHz
MID	-8.572dBm/3kHz	-20.332dBm/3kHz	8dBm/3kHz
HIGH	-8.632dBm/3kHz	-24.232dBm/3kHz	8dBm/3kHz

Test Location: CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Zillion TV Corporation.**
Specification: **Peak Power Spectral Density - Radiated**
Work Order #: **89171** Date: 3/12/2009
Test Type: **Radiated Scan** Time: 08:39:12
Equipment: **Wireless Remote Control** Sequence#: 1
Manufacturer: ZillionTV Corporation Tested By: Armando Del Angel
Model: ZR102
S/N: 013

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8447D Preamp	2944A08601	07/08/2008	07/08/2010	AN01517
Agilent E4440A	MY46186330	01/31/2008	01/31/2010	AN02872
Cable 6'	51	12/30/2008	12/30/2010	ANP05361
Antenna	2453	12/22/2008	12/22/2010	AN01994
Cable 30'	11	11/05/2008	11/05/2010	ANP05366
Cable 6'	49	11/10/2008	11/10/2010	ANP05371
Cable 20'	16	11/10/2008	11/10/2010	ANP05360

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless Remote Control*	ZillionTV Corporation	ZR102	013

Support Devices:

Function	Manufacturer	Model #	S/N
USB Base Station	ZillionTV Corporation	ZA100	013
Laptop	Lenovo	T61	10156

Test Conditions / Notes:

Temp = 23°C
Relative Humidity = 17%
Atmospheric Pressure = 103.5kPa

Testing Peak Power Spectral Density per FCC 15.247(e)

The EUT is a wireless remote control.
The EUT is located in the center of the test table raised 10cm with styrofoam.
The EUT will be transmitting in the LOW, MID and HIGH channels.
The support equipment is used before each test to set the EUT to the specific channel.
The Test is being done with fresh batteries.
Because of the lack of antenna connectors the test will have to be done through radiated scans.

RBW = 3kHz
VBW = 10kHz
Span = 300kHz
Sweep = 100s

Transducer Legend:

T1=ANT AN01994 25-1000MHz	T2=CAB-ANP05360
T3=CAB-ANP05361	T4=CAB-ANP05366
T5=CAB-ANP05371	T6=AMP-AN01517-070808

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	915.092M	88.9	+23.3 +0.4	+1.9 -29.3	+0.5	+2.0	+0.0 340	87.7	115.0 MID	-27.3	Vert 100
2	927.076M	88.3	+23.5 +0.5	+2.0 -29.2	+0.5	+2.0	+0.0 340	87.6	115.0 HIGH	-27.4	Vert 100
3	903.107M	88.7	+23.1 +0.3	+1.9 -29.3	+0.5	+2.0	+0.0 339	87.2	115.0 LOW	-27.8	Vert 100
4	903.107M	78.5	+23.1 +0.3	+1.9 -29.3	+0.5	+2.0	+0.0 204	77.0	115.0 LOW	-38.0	Horiz 100
5	915.092M	77.1	+23.3 +0.4	+1.9 -29.3	+0.5	+2.0	+0.0 204	75.9	115.0 MID	-39.1	Horiz 100
6	927.076M	72.7	+23.5 +0.5	+2.0 -29.2	+0.5	+2.0	+0.0 204	72.0	115.0 HIGH	-43.0	Horiz 100

RSS-210 99% BANDWIDTH

Test Equipment

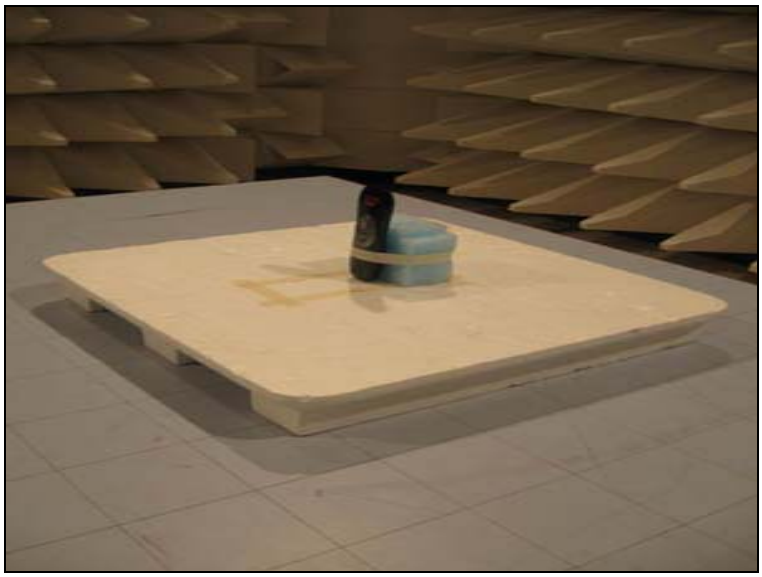
Asset #	Equipment	Serial #	Cal Date	Cal Due
ANP05361	Cable 6'	51	12/30/2008	12/30/2010
AN01994	Antenna	2453	12/22/2008	12/22/2010
ANP05366	Cable 30'	11	11/5/2008	11/5/2010
ANP05371	Cable 6'	49	11/10/2008	11/10/2010
ANP05360	Cable 20'	16	11/10/2008	11/10/2010
AN01517	HP 8447D Preamp	2944A08601	7/8/2008	7/8/2010
AN02872	Agilent E4440A	MY46186330	1/31/2008	1/31/2010

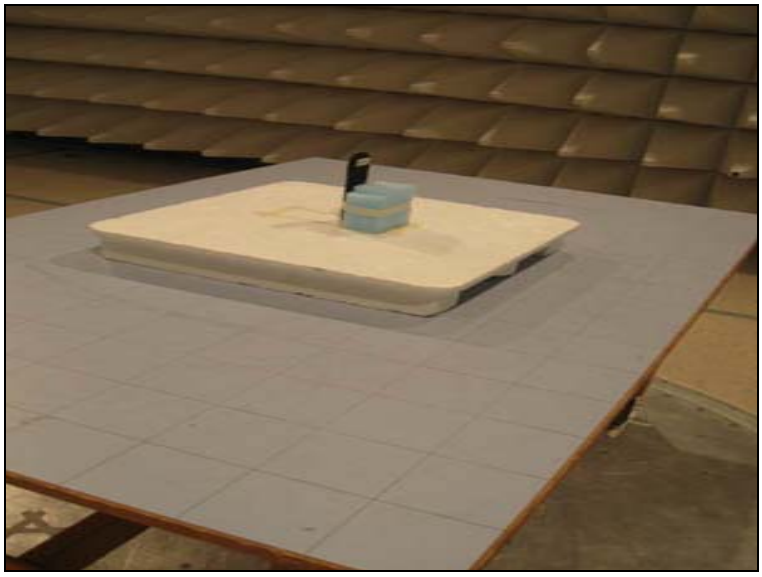
Test Conditions

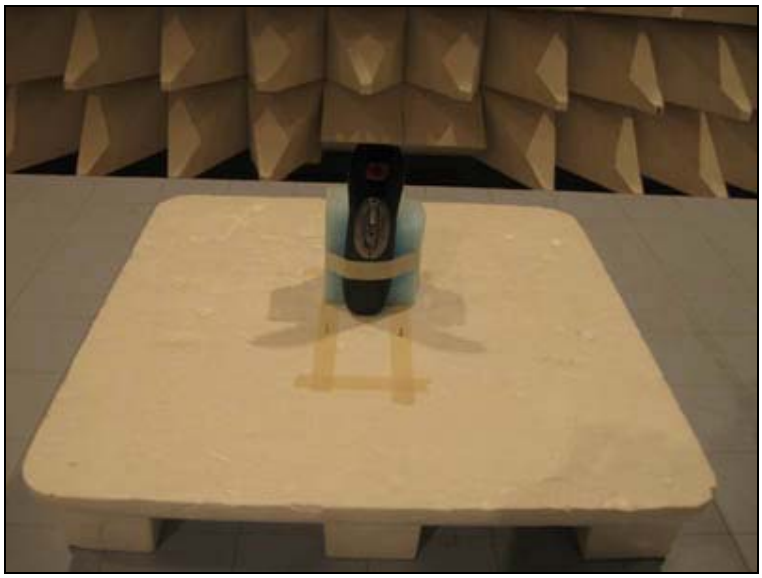
EUT is transmitting. Due to the lack of antenna connectors the test will be done through radiated measurements. EUT is located in the center of the test table over 10cm of Styrofoam. The support equipment is used before each test to set the EUT to the specific channel. PSA is on max hold, Agilent procedure used for each channel LOW, MID, HIGH.

RBW = 10 kHz
VBW = 100 kHz
Span = 1 MHz

Test Setup Photos





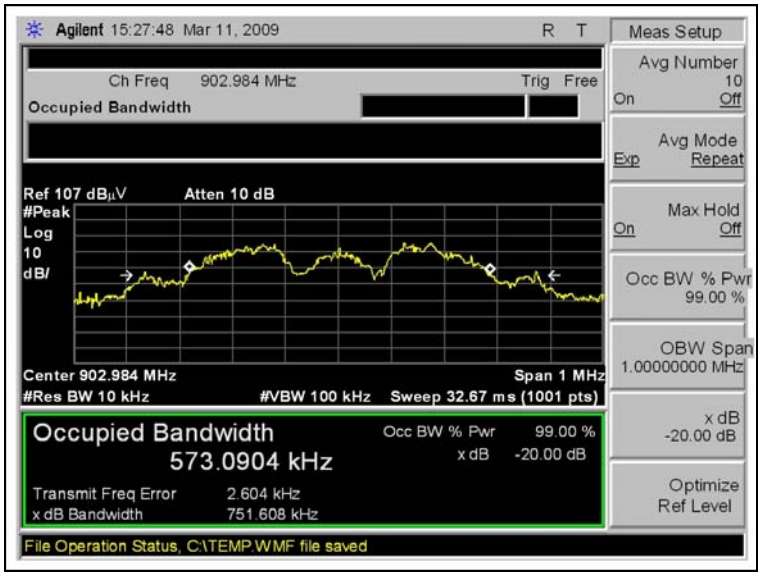


Test Data

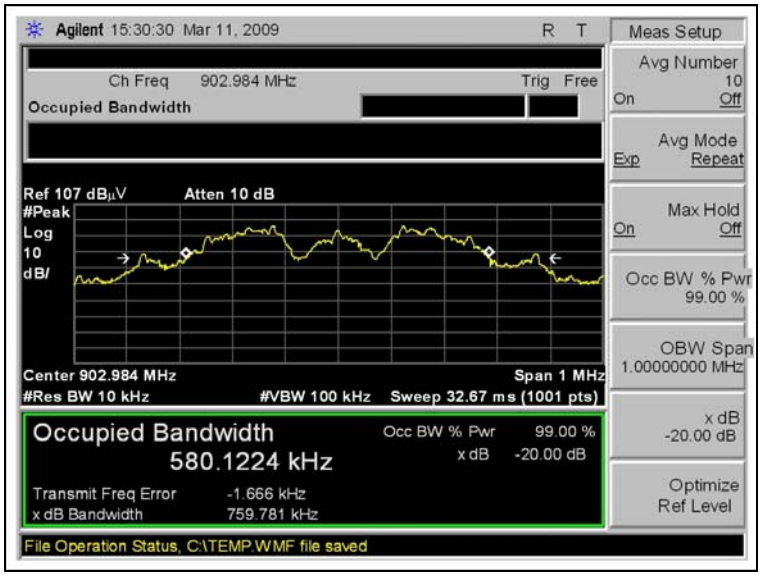
	Vertical	Horizontal
LOW	580.12kHz	573.09kHz
MID	566.14kHz	564.73kHz
HIGH	568.01kHz	572.97kHz

Test Plots

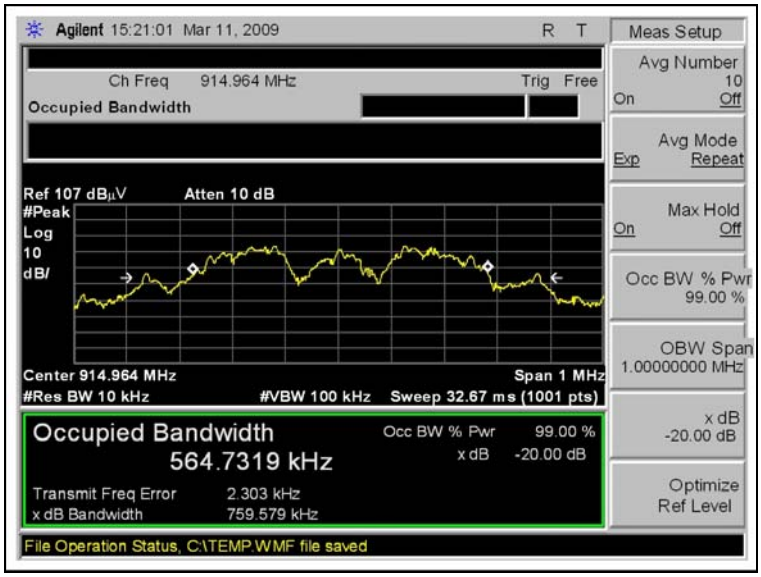
RSS-210 99% BANDWIDTH – LOW CHANNEL HORIZONTAL



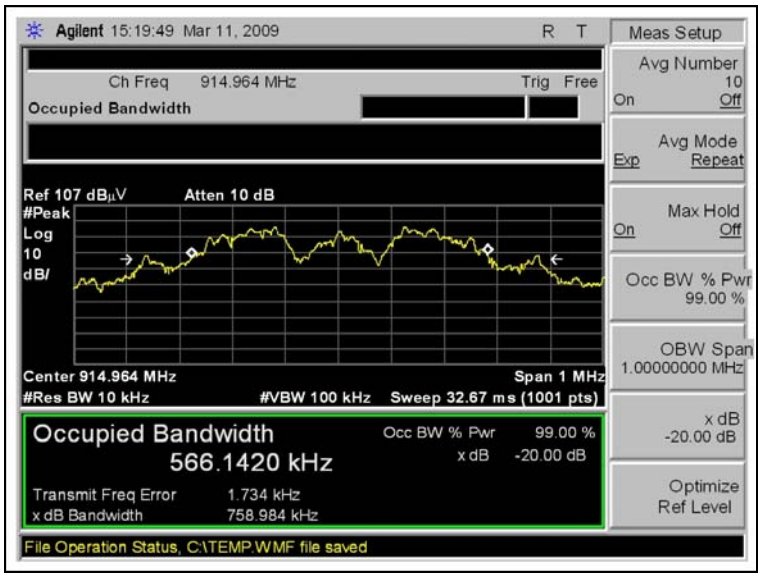
RSS-210 99% BANDWIDTH – LOW CHANNEL VERTICAL



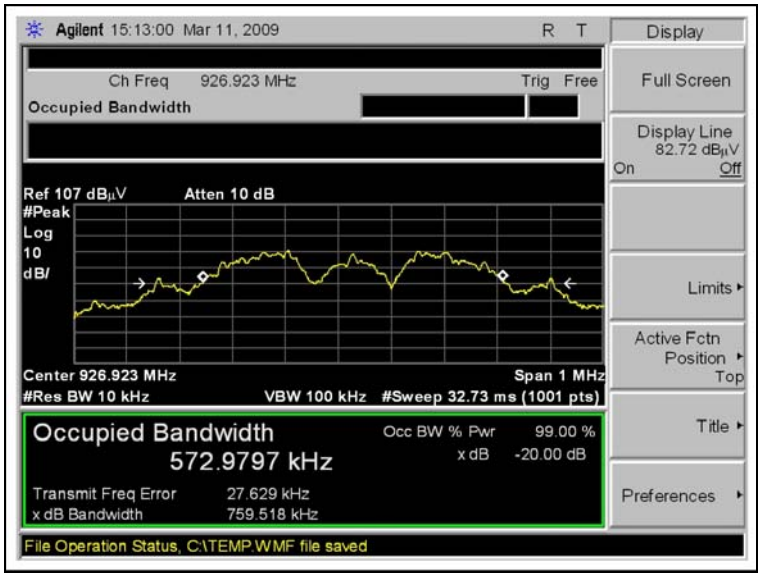
RSS-210 99% BANDWIDTH –
MID CHANNEL HORIZONTAL



RSS-210 99% BANDWIDTH –
MID CHANNEL VERTICAL



RSS-210 99% BANDWIDTH –
HIGH CHANNEL HORIZONTAL



RSS-210 99% BANDWIDTH –
HIGH CHANNEL VERTICAL