

Exhibit C

Measurement Report

JEBSEE ELECTRONICS CO., LTD.

FCC ID.: DT9R-9000

A/V WIRELESS RECEIVER

FCC Part 15 Subpart B EMI TEST REPORT

of

E.U.T. : A/V WIRELESS RECEIVER
MODEL : R-9000
FCC ID. : DT9R-9000

for

APPLICANT : JEBSEE ELECTRONICS CO., LTD.

ADDRESS : 24-3, SIN-LO ROAD, P.O. BOX 57, TAINAN,
TAIWAN, R.O.C.

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN
NO. 8 LANE 29, WENMING ROAD,
LOSHAN TSUN, KWEISHAN HSIANG,
TAOYUAN, TAIWAN, R.O.C.

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Report Number : ET86R-12-053-02

TEST REPORT NOTIFICATION

Applicant : JEBSEE ELECTRONICS CO., LTD.
24-3, SIN-LO ROAD, P.O. BOX 57, TAINAN, TAIWAN, R.O.C.

Manufacturer : JEBSEE ELECTRONICS CO., LTD.
24-3, SIN-LO ROAD, P.O. BOX 57, TAINAN, TAIWAN, R.O.C.

Description of EUT :
a) Type of EUT : A/V WIRELESS RECEIVER
b) Trade Name : JEBSEE
c) Model No. : R-9000
d) Power Supply : AC ADAPTOR (I/P: 120V/60Hz, O/P: 15Vdc/400 mA)

Regulation Applied : FCC Rules and Regulations Part 15 Subpart B (1996)

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.4, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.
2. The testing report shall not be reproduced except in full, without the written approval of ETC.

Issued Date : NOV. 19, 1998

Test Engineer : S. S. Liou
(S. S. Liou)

Approve & Authorized Signer : Will Yau
Will Yau, Supervisor
EMI Test Site of ELECTRONICS
TESTING CENTER, TAIWAN

Table of Contents

	Page
1 GENERAL INFORMATION	1
1.1 Product Description.....	1
1.2 Characteristics of Device	1
1.3 Test Methodology.....	1
1.4 Test Facility.....	1
2 LIMITATIONS AND LABELING REQUIREMENT	2
2.1 Definition	2
2.2 Limitation Requirement	2
2.3 Labeling Requirement.....	4
2.4 User Information	5
3 SYSTEM TEST CONFIGURATION	6
3.1 Justification	6
3.2 Device for Tested System.....	6
4 RADIATED EMISSION MEASUREMENT	7
4.1 Description for Radiated Emission Measured.....	7
4.2 Radiated Emission Data	8
4.2.1 TV Tuner Portion.....	8
4.2.2 Rx Portion	10
4.2.3 Other Emissions	11
4.3 Field Strength Calculation.....	12
4.4 Equipment for Radiation Measurement	12
4.5 Measuring Instrument Setup	12
4.6 Photos of Radiation Measuring Setup.....	13
4.7 Open Field Test Site Setup Diagram.....	14
5 CONDUCTED EMISSION MEASUREMENT	15
5.1 Description	15
5.2 Conducted Emission Data	15
5.3 Result Data Calculation.....	16
5.4 Photos of Conduction Measuring Setup.....	23
5.5 Conducted Measuring Setup Diagram	24
5.6 Conducted Measurement Equipment	24
6 RF OUTPUT LEVEL MEASUREMENT	25

6.1	Measurement Description	25
6.2	Data of Measurement	25
6.3	Calculation of Data Measured.....	25
6.4	Equipment for RF Output Level Measurement.....	26
7	CONDUCTED SPURIOUS EMISSION MEASUREMENT.....	27
7.1	Description of Measurement	27
7.2	Data of Measurement	27
7.3	Calculation of Data Measured.....	28
7.4	Equipment for Conducted Spurious Measurement	28
8	ANTENNA TRANSFER SWITCH MEASUREMENT	29
8.1	Description for measurement	29
8.2	Data of Measurement	29
8.3	Result Calculation	29
8.4	Measuring Instrument.....	30

1 GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : A/V WIRELESS RECEIVER
- b) Trade Name : JEBSEE
- c) Model No. : R-9000
- d) Power Supply : AC ADAPTOR (I/P: 120V/60Hz, O/P: 15Vdc/400 mA)

1.2 Characteristics of Device

The A/V WIRELESS RECEIVER is intended for reception of audio and video transmission. It performs a heterodyne conversion from a modulated RF signal (2.4 GHz) to the standard out channel 3 or 4. The Video signal have nominal 75 Ohm output impedance in NTSC format on channel 3 or 4.

1.3 Test Methodology

For A/V WIRELESS RECEIVER, both conducted, radiated, conducted RF output signal and spurious level and transfer switch isolation testing were performed according to the procedures in ANSI C63.4(1992).

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No.34, 5 Lirm, Din Fu Tsun, Lin Kou, Taipei, Taiwan, R.O.C.

This site has been fully described in a report submitted to your office, and accepted in a letter dated Feb. 10 , 1997.

2 LIMITATIONS AND LABELING REQUIREMENT

2.1 Definition

Unintentional radiator:

A device that intentionally generates and radio frequency energy for use within the device, or that sends radio frequency signals by conduction to associated equipment via connecting wiring, but which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:

A digital device which is marketed for use in commercial or business environment; exclusive of a device which is market for use by the general public, or which is intended to be used in the home.

Class B Digital Device :

A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business or industrial environment. Example of such devices that are marketed for the general public.

Note : A manufacturer may also qualify a device intended to be marketed in a commercial, business, or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

2.2 Limitation Requirement

(1) Conducted Emission Limits

For unintentional device, according to § 15.107, Line Conducted Emission Limits is as following:

Class B Line Conducted Emission Limits :

Frequency MHz	Emissions μV	Emissions dB μV
0.45 - 30.0	250	48.0

Class A Line Conducted Emission Limits :

Frequency MHz	Emissions μ V	Emissions dB μ V
0.45 - 1.705	1000	60.0
1.705 - 30.0	3000	69.5

(2) Radiated Emission Requirement**Class B Radiated Emission Limits :**

Frequency MHz	Distance Meters	Radiated dB μ V/m	Radiated μ V/m
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
above 960	3	54.0	500

For unintentional class A devices, according to § 15.109(a), the field strength of radiated emissions from unintentional radiators at a distance of 10 meters shall not exceed the following values:

Class A Radiated Emission Limits :

Frequency MHz	Distance Meters	Radiated dB μ V/m	Radiated μ V/m
30 - 88	10	39.0	90
88 - 216	10	43.5	150
216 - 960	10	46.4	210
above 960	10	49.5	300

(3) RF Output Signal Requirement

For TV interface devices, according to § 15.115(b)(1), At any RF output terminal, the maximum measured RMS voltage, in microvolt, corresponding to the peak envelope power of the modulated signal across a resistance (R in Ohms) matching the rated output impedance of the TV interface device, shall not exceed the following :

- a). For cable system terminal device or a TV interface device used with a master antenna, 692.8 times the square root of R for video signal and 155 times the square root R for

audio signal.

b). For all other TV interface devices, 346.4 times the square root of R for video signal and 77.5 times the square root of R for audio signal.

(4) RF Output Spurious Requirement

For TV interface devices, according to § 15.115(b)(2), at any RF output terminal, peak power envelope, across R (same as the R in RF output signal), of any emission appearing on frequencies removed by more than 4.6 MHz below or 7.4 MHz above the video carrier frequency shall not exceed the following :

a). For cable system terminal device or a TV interface device used with a master antenna, 692.8 times the square root of R.

b). For all other TV interface devices, 10.95times the square root of R.

(5) Isolation of Transfer Switch Requirement

For TV interface devices, according to § 15.115(c)(ii), isolation of transfer switch shall not exceed 0.346 times the square root of R (same as the R in RF output signal).

2.3 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.4 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

The Federal Communications Commission Radio Frequency Interference Statement includes the following paragraph.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

3 SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in EUT is working.

The EUT was rotated to obtain the maximum level of radiated emissions .The antenna was varied in height above ground to obtain the maximum signal strength. The antenna height was varied from 1 to 4 meters.

3.2 Device for Tested System

Device	Manufacture	Model / FCC ID.	Description
A/V WIRELESS RECEIVER*	JEBSEE ELECTRONICS CO.	R-9000 DT9R-9000	Power Cord 1.8m AV Cable 1.5m Coaxial Cable 1.5m ×2
TV	Action Co.	N/A N/A	Power Cord 1.8m

Remark “*” means equipment under test.

4 RADIATED EMISSION MEASUREMENT

4.1 Description for Radiated Emission Measured

According to § 15.33 (b), radiated emission frequency was measured from 30 MHz to 5GHz.

The field strength measurements of the receiver under test which was placed on an wooden turntable 0.8 meter in height. The receiving antenna polarized horizontally was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the equipment under test. These measurements were repeated with the receiving antenna polarized vertically.

For this TV interface is a wireless receiver, applying a test signal recommended in ANSI C63.4 by directly conducting is not practical and available, therefore, a general VITS test signal is applied via its respective transmitter.

According to FCC rule, for device submitted for notification in this report, the limit below 1 GHz is quasi peak and above 1 GHz is both peak and average applied. It is considered that the emission level is also in compliance with average limit when the measurement with peak function meets average limit. *All data listed in this section is derived with peak function detector.*

The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, the limit, and margin. Explanation of the Correction Factor is given in paragraph 4.3.

4.2 Radiated Emission Data

4.2.1 TV Tuner Portion

Operation Condition : Receiving

Test Date : OCT. 30, 1998 Temperature : 24 °C Humidity: 65%

A. Channel 3

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
	H	V	Corr.	Q.P.				
107.000	28.7	29.3	-12.4	16.9	43.5	-26.6	109	1.80
214.000	---	---	-6.2	---	43.5	---	---	---
321.000	---	---	-6.7	---	46.0	---	---	---
428.000	---	---	-5.5	---	46.0	---	---	---
535.000	---	---	-5.1	---	46.0	---	---	---
642.000	---	---	-3.0	---	46.0	---	---	---
749.000	---	---	-0.3	---	46.0	---	---	---
856.000	---	---	2.2	---	46.0	---	---	---
963.000	---	---	3.3	---	54.0	---	---	---
1070.000	---	---	-9.4	---	54.0	---	---	---
1177.000	---	---	-8.9	---	54.0	---	---	---
1284.000	---	---	-8.5	---	54.0	---	---	---
1391.000	---	---	-8.0	---	54.0	---	---	---
1498.000	---	---	-7.5	---	54.0	---	---	---
1605.000	---	---	-6.9	---	54.0	---	---	---
1712.000	---	---	-6.3	---	54.0	---	---	---
1819.000	---	---	-5.6	---	54.0	---	---	---
1926.000	---	---	-5.0	---	54.0	---	---	---

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.

B. Channel 4

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)	Limit @3m (dBuV/m) Q.P.	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
	H	V						
113.000	28.7	28.4	-11.4	17.3	43.5	-26.2	109	1.80
226.000	---	---	-5.4	---	46.0	---	---	---
339.000	---	---	-8.8	---	46.0	---	---	---
452.000	---	---	-5.5	---	46.0	---	---	---
565.000	---	---	-5.3	---	46.0	---	---	---
678.000	---	---	-1.0	---	46.0	---	---	---
791.000	---	---	0.3	---	46.0	---	---	---
904.000	---	---	2.2	---	46.0	---	---	---
1017.000	---	---	-9.6	---	54.0	---	---	---
1130.000	---	---	-9.1	---	54.0	---	---	---
1243.000	---	---	-8.6	---	54.0	---	---	---
1356.000	---	---	-8.1	---	54.0	---	---	---
1469.000	---	---	-7.6	---	54.0	---	---	---
1582.000	---	---	-7.0	---	54.0	---	---	---
1695.000	---	---	-6.4	---	54.0	---	---	---
1808.000	---	---	-5.7	---	54.0	---	---	---
1921.000	---	---	-5.1	---	54.0	---	---	---

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.

4.2.2 Rx Portion

a. Channel 1

Operation Condition : Receiving

Test Date: OCT. 30, 1998 Temperature : 24 °C Humidity: 65%

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)	Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (m)
	H	V			Peak	Ave.			
1930.479	43.1	44.9	-5.0	39.9	74.0	54.0	-14.1	0	1.40
3861.022	45.5	46.7	1.4	48.1	74.0	54.0	-5.9	180	1.40
5791.437	---	---	4.5	---	74.0	54.0	---	---	---
7721.916	---	---	6.3	---	74.0	54.0	---	---	---
9652.395	---	---	7.3	---	74.0	54.0	---	---	---

b. Channel 3

Operation Condition : Receiving

Test Date: OCT. 30, 1998 Temperature : 24 °C Humidity: 65%

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)	Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (m)
	H	V			Peak	Ave.			
1970.486	48.0	46.5	-4.8	43.2	74.0	54.0	-10.8	90	1.30
3941.065	45.9	46.8	1.8	48.6	74.0	54.0	-5.4	180	1.50
5911.458	---	---	4.5	---	74.0	54.0	---	---	---
7881.944	---	---	6.4	---	74.0	54.0	---	---	---
9852.430	---	---	7.3	---	74.0	54.0	---	---	---

c. Channel 4

Operation Condition : Receiving

Test Date: OCT. 30, 1998 Temperature : 24 °C Humidity: 65%

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)	Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (m)
	H	V			Peak	Ave.			
1990.543	50.1	46.8	-4.7	45.4	74.0	54.0	-8.6	90	1.40
3981.120	44.6	46.4	1.9	48.3	74.0	54.0	-5.7	0	1.40
5971.629	---	---	4.5	---	74.0	54.0	---	---	---
7962.172	---	---	6.4	---	74.0	54.0	---	---	---
9952.715	---	---	7.4	---	74.0	54.0	---	---	---

4.2.3 Other Emissions

Operation Condition : Receiving

Test Date: OCT. 30, 1998 Temperature : 24 °C Humidity: 65%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
38.101	V	24.8	-11.4	13.4	40.0	-26.6	180	4.00
47.607	V	30.1	-13.5	16.6	40.0	-23.4	180	1.00
76.171	V	28.0	-15.6	12.4	40.0	-27.6	90	1.00
295.214	H	32.4	-1.4	31.0	46.0	-15.0	270	1.00
304.643	H	38.3	-6.9	31.4	46.0	-14.6	180	4.00
314.143	H	35.2	-6.8	28.4	46.0	-17.6	180	4.00
470.671	H	36.3	-4.7	31.6	46.0	-14.4	270	2.00

4.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{CORR. FACTOR}$$

where CORR. FACTOR = Antenna FACTOR + Cable FACTOR

4.4 Equipment for Radiation Measurement

The following test equipment are used during the radiated test .

Equipment	Manufacturer	Model No.	Next Cal. Date
EMI Receiver	Hewlett-Packard	8546A	02/11/1999
Spectrum Analyzer	Hewlett-Packard	8568B	10/16/1999
Quasi Peak Adapter	Hewlett-Packard	85650A	10/07/1999
Pre-selector	Hewlett-Packard	85685A	10/16/1999
Pre-Amplifier	Hewlett-Packard	8447D	12/23/1998
Log Periodic Antenna	EMCO	3146	08/05/1999
Biconical Antenna	EMCO	3108	08/05/1999

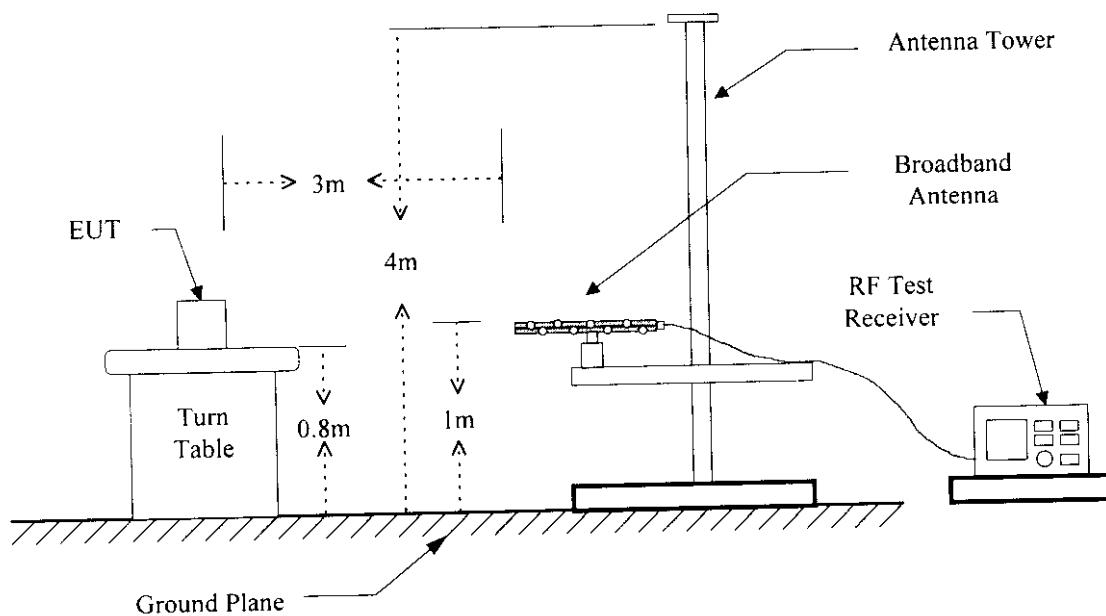
4.5 Measuring Instrument Setup

Explanation of measuring instrument setup when respective function is used in any frequency band is as following :

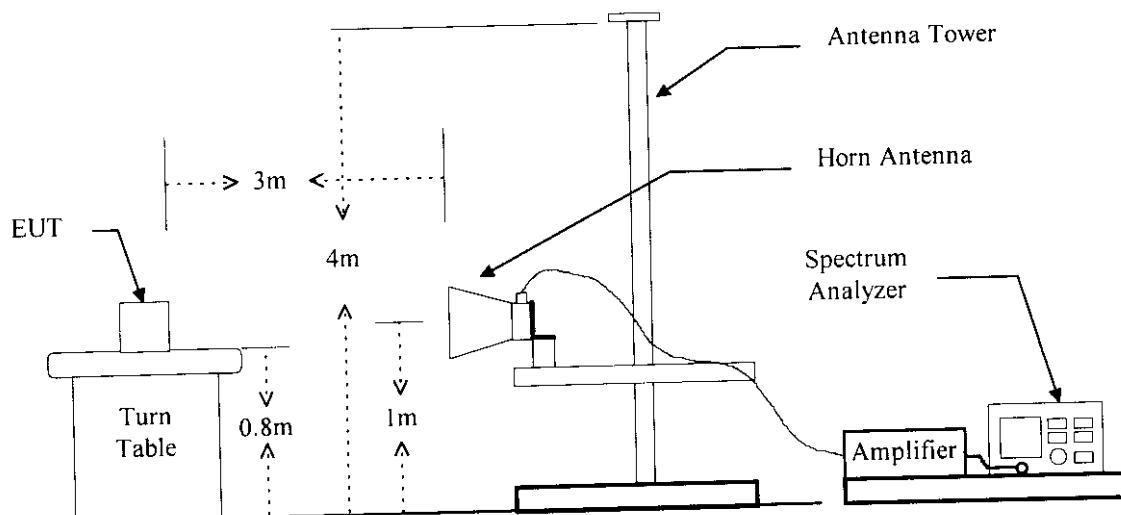
Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	1 MHz

4.7 Open Field Test Site Setup Diagram

Radiated Emission's Frequency Below 1 GHz



Radiated Emission's Frequency Above 1 GHz



5 CONDUCTED EMISSION MEASUREMENT

5.1 Description

The initial setup in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on following data pages, and these signals are the quasi-peaked.

For this TV interface is a wireless receiver, applying a test signal recommended in ANSI C63.4 by directly conducting is not practical and available, therefore, a VITS test signal is applied via its respective transmitter.

5.2 Conducted Emission Data

Test Date : OCT. 30, 1998 Temperature : 24 °C Humidity: 60%

Operation Condition : Receiving

A. Receiving Channel 1

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	Va	Vb		Va	Vb		
0.4500	37.2	28.3	0.2	37.4	28.5	48.0	-10.6
0.6540	35.5	23.6	0.2	35.7	23.8	48.0	-12.3
1.3534	26.3	18.2	0.3	26.6	18.5	48.0	-21.4
11.9796	19.4	15.5	0.6	20.0	16.1	48.0	-28.0
18.8488	20.6	21.6	0.9	21.5	22.5	48.0	-25.5
25.1352	23.9	23.4	1.0	24.9	24.4	48.0	-23.1

B. Receiving Channel 3

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	Va	Vb		Va	Vb		
0.4500	36.8	28.0	0.2	37.0	28.2	48.0	-11.0
0.6604	35.9	22.8	0.2	36.1	23.0	48.0	-11.9
0.9163	30.7	15.8	0.3	31.0	16.1	48.0	-17.0
1.4468	24.0	15.4	0.3	24.3	15.7	48.0	-23.7
18.8501	21.3	21.9	0.9	22.2	22.8	48.0	-25.2
25.1306	25.5	25.1	1.0	26.5	26.1	48.0	-21.5

C. Receiving Channel 2

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	Va	Vb		Va	Vb		
0.4500	35.8	24.9	0.2	36.0	25.1	48.0	-12.0
0.6414	36.5	24.3	0.2	36.7	24.5	48.0	-11.3
0.9496	28.3	15.1	0.3	28.6	15.4	48.0	-19.4
11.9804	20.1	18.4	0.6	20.7	19.0	48.0	-27.3
18.8510	21.3	22.3	0.9	22.2	23.2	48.0	-24.8
25.1339	25.8	25.2	1.0	26.8	26.2	48.0	-21.2

5.3 Result Data Calculation

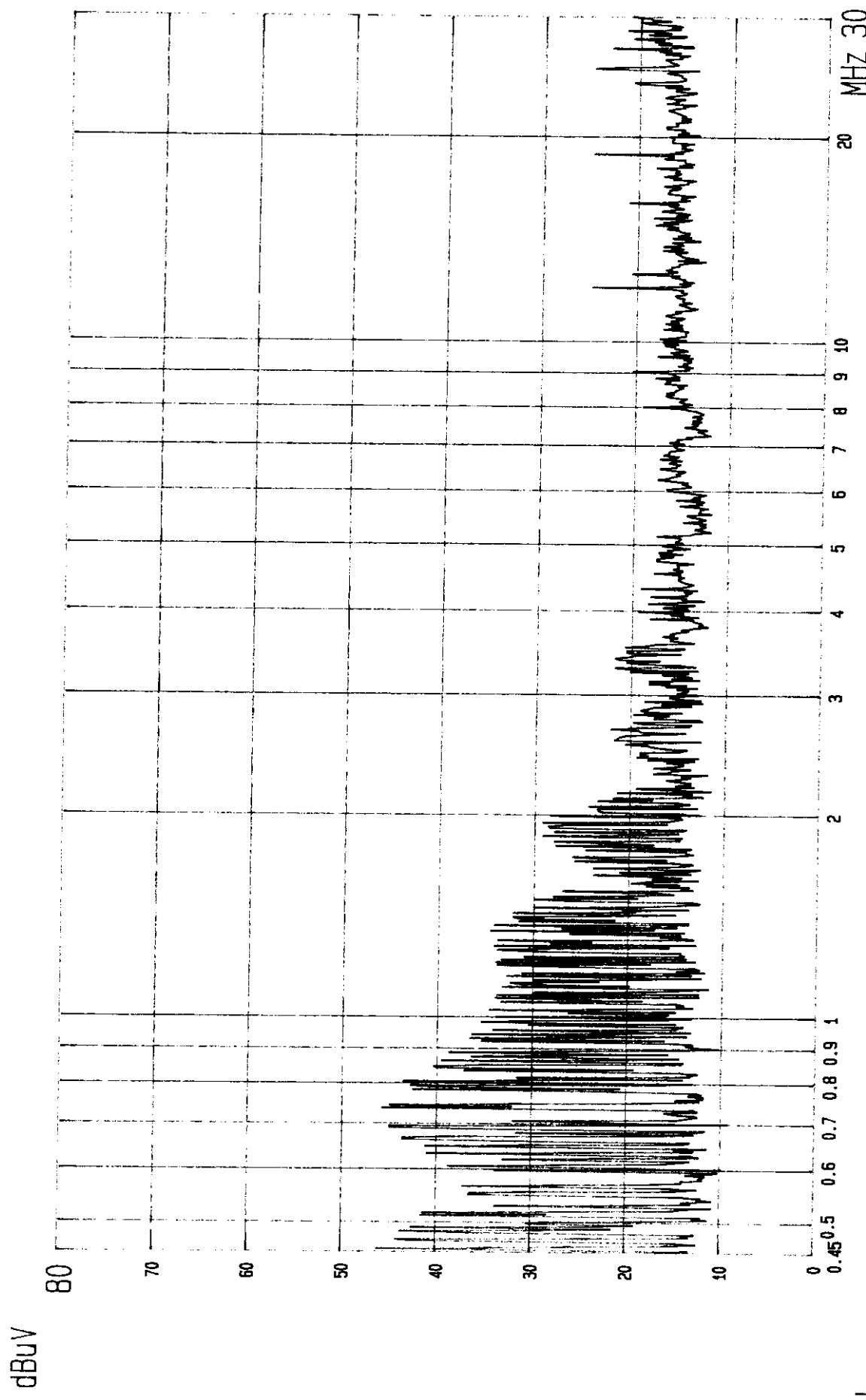
The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{LISN FACTOR}$$

Assume a receiver reading of 22.5 dB μ V is obtained, and LISN Factor is 0.1 dB, then the total of field strength is 22.6 dB μ V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{ V}$$

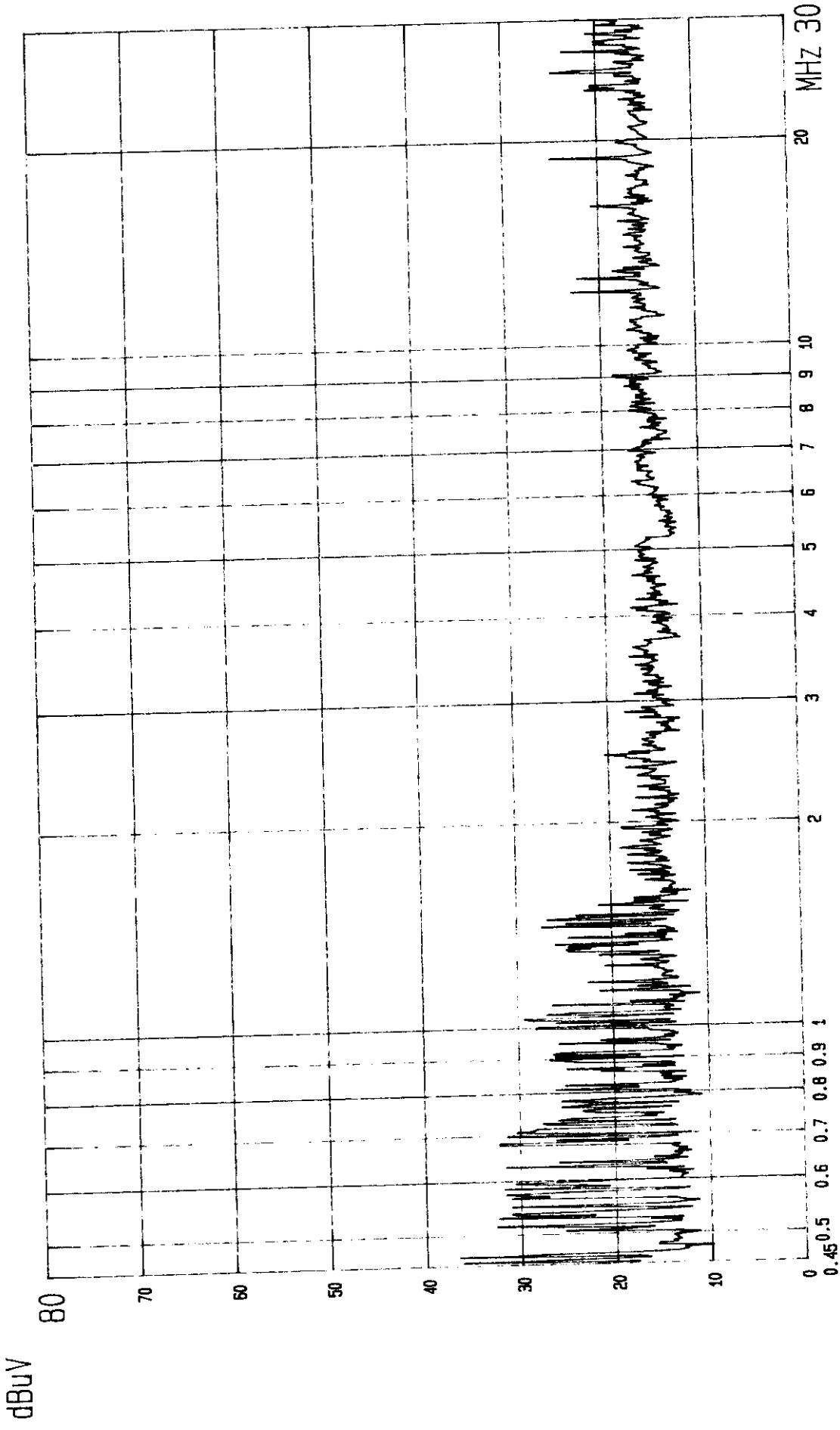
$$\begin{aligned} \text{Level in } \mu \text{ V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{ V})/20] \\ &= 13.48 \text{ } \mu \text{ V} \end{aligned}$$



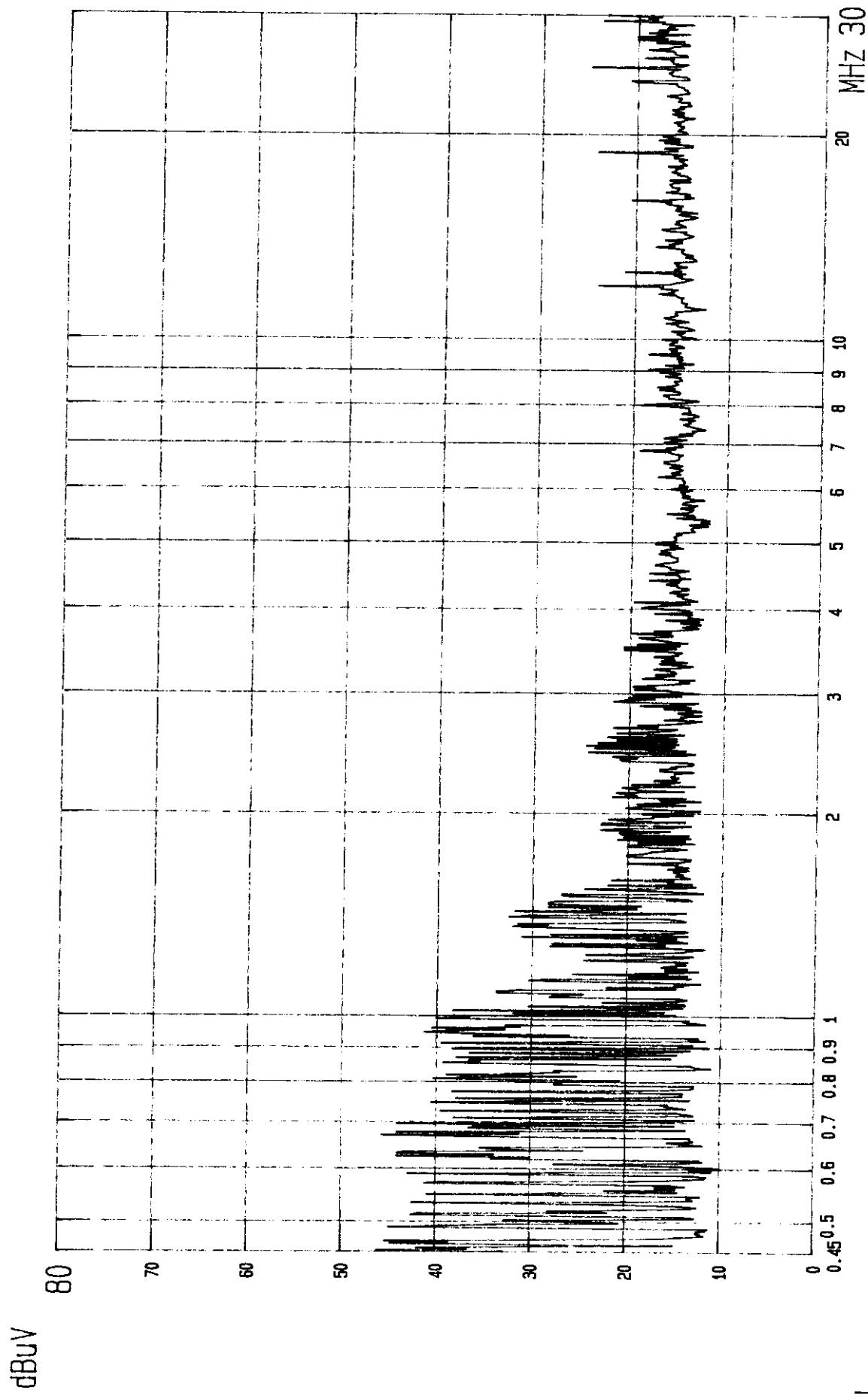
FCC CONDUCTED TEST
MODEL: R-9000

Rev. No 1.0

EUT: 2.4GHz VIDEO/AUDIO WIRELESS RECEIVER 2: CLASS B LIMIT
POWER: 120V/60Hz MODE: CH1 LISN: Va ETC EMI LAB.

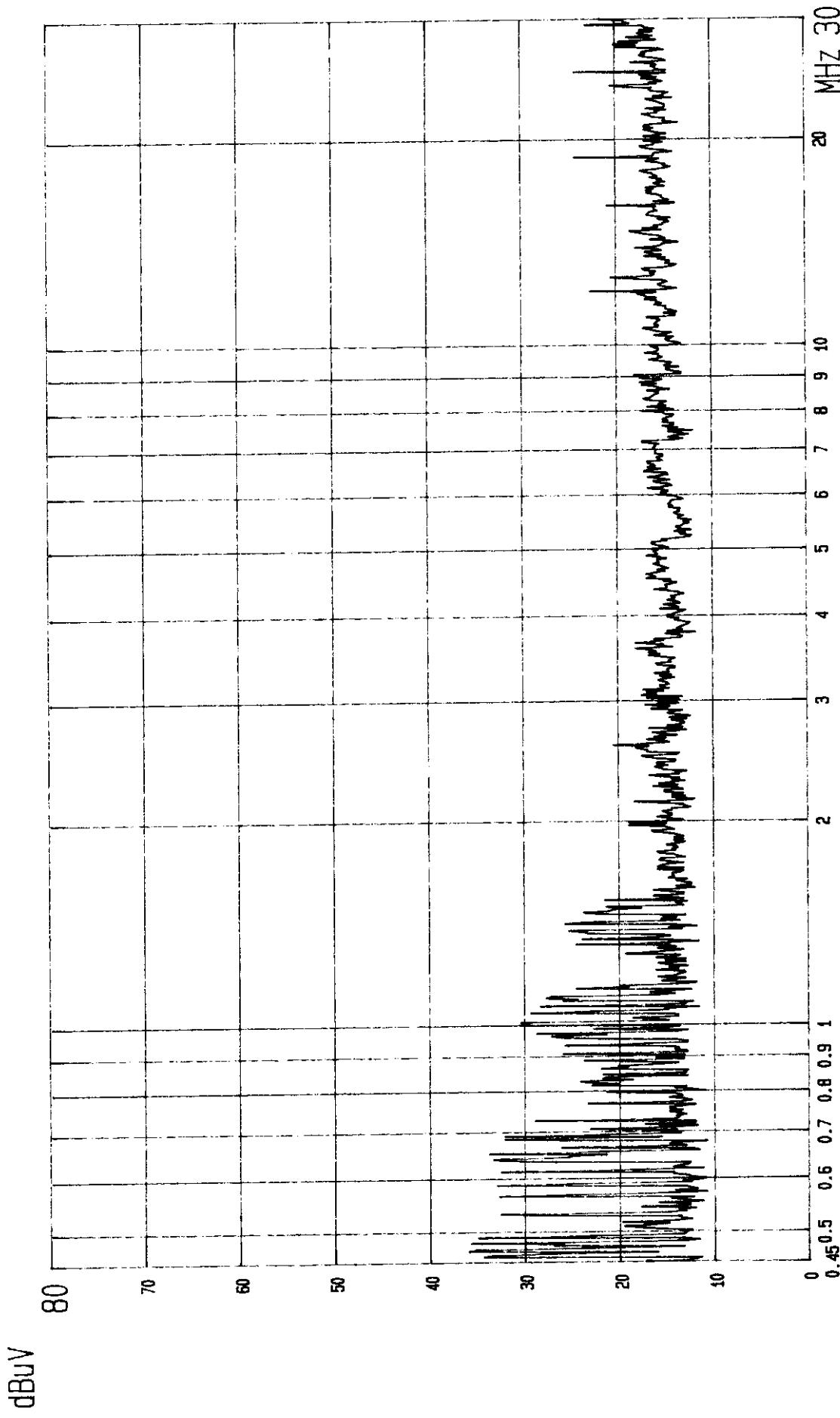


EUT: 2.4GHz VIDEO/AUDIO WIRELESS RECEIVER 2: CLASS B LIMIT
POWER: 120V/60Hz LISM: Vb MODE: CH1
FCC CONDUCTED TEST MODEL: R-9000
Rev. No 1.0



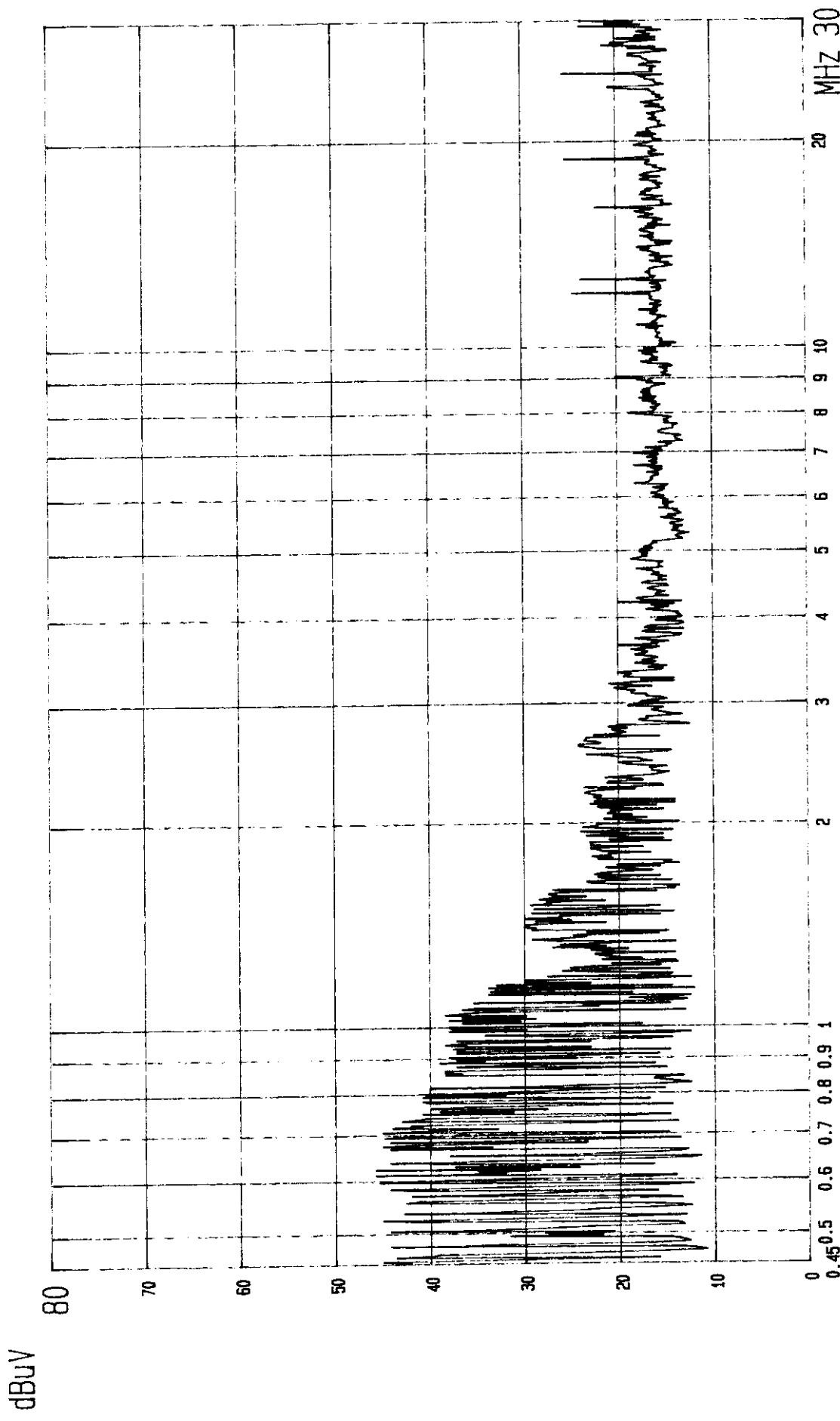
FCC CONDUCTED TEST
MODEL: R-9000
REV. NO 1.0

EUT: 2.4GHz VIDEO/AUDIO WIRELESS RECEIVER 2: CLASS B LIMIT
MODE: CH3 POWER: 120V/60Hz LISN: V_a ETC EMI LAB.



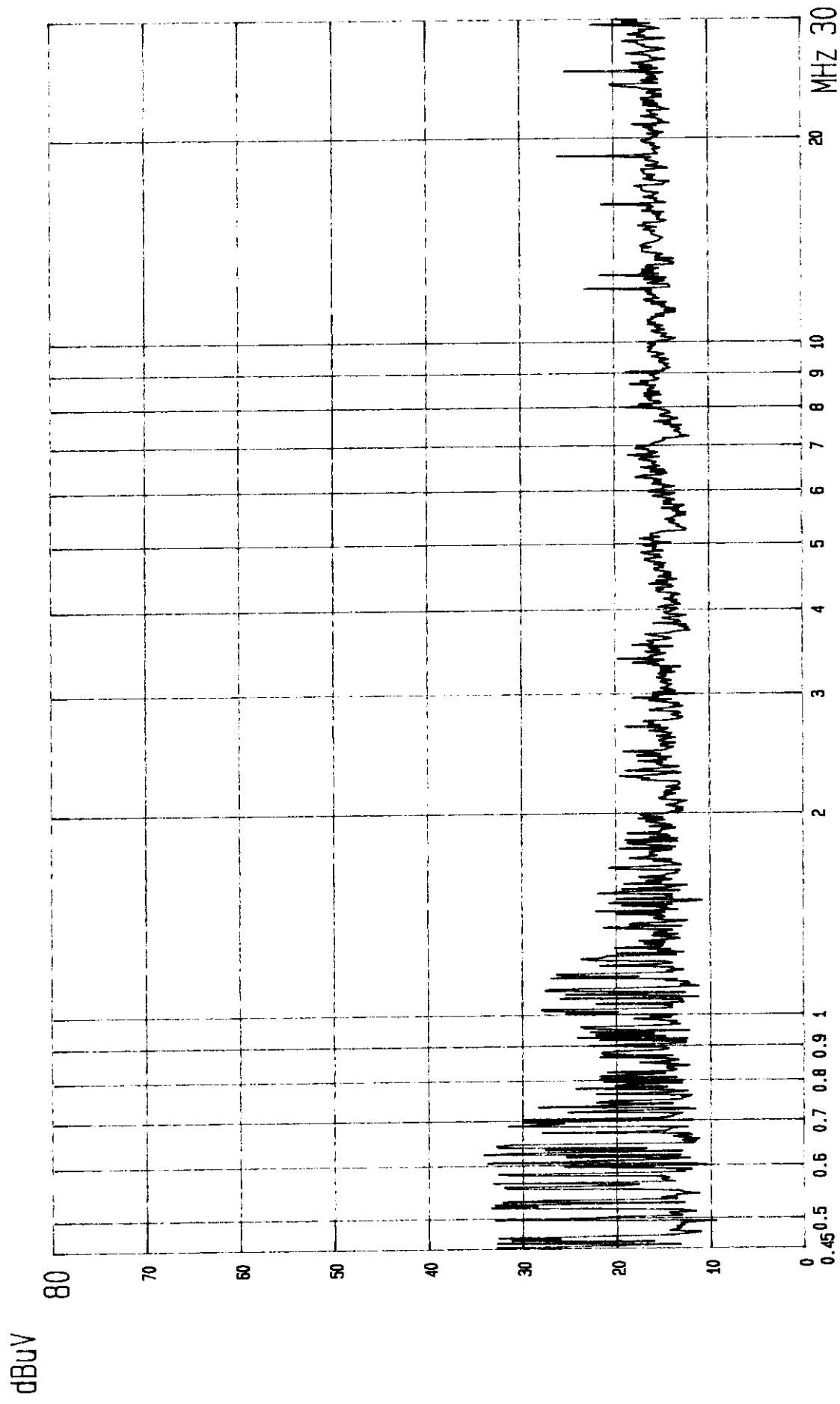
FCC CONDUCTED TEST
MODEL: R-9000
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EUT: 2.4GHz VIDEO/AUDIO WIRELESS RECEIVER 2: CLASS B LIMIT
POWER: 120V/60Hz LISN: Vb ETC EMI LAB.



EUT: 2.4GHz VIDEO/AUDIO WIRELESS RECEIVER 2: CLASS B LIMIT
MODE: CH4 POWER: 120V/60Hz LISN: Va ETC EMI LAB.
MODEL: R-9000

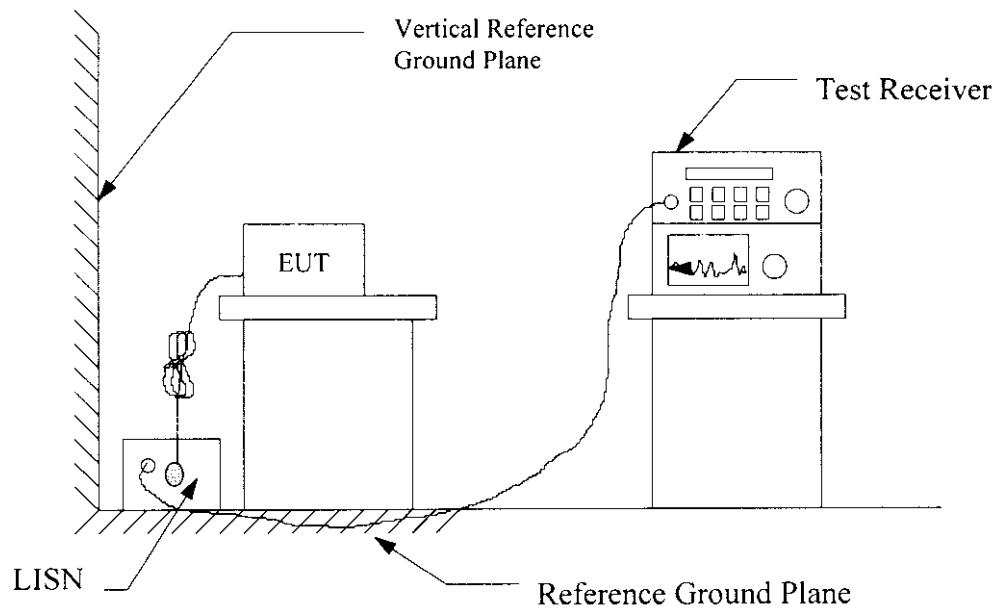
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FCC CONDUCTED TEST
MODEL: R-9000
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EUT: 2.4GHz VIDEO/AUDIO WIRELESS RECEIVER 2: CLASS B LIMIT
POWER: 120V/60Hz LISN: Vb ETC EMI LAB.

5.5 Conducted Measuring Setup Diagram



5.6 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipment	Manufacturer	Model No.	Cal. Date
RF Test Receiver	Rohde and Schwarz	ESH3	01/04/1999
Spectrum Monitor	Rohde and Schwarz	EZM	N.C.R.
Line Impedance Stabilization network	Kyoritsu	KNW-407	12/01/1998
Line Impedance Stabilization network	Shibasoku	563	08/18/1999
Printer	Rohde and Schwarz	PUD-3	N.C.R.
Plotter	Hewlett-Packard	7440A	N/A
Shielded Room	Riken		N.C.R.

6 RF OUTPUT LEVEL MEASUREMENT

6.1 Measurement Description

According to section 12.2.5 of ANSI C63.4, the output signal level is the maximum voltage level present at the output terminal of a TV interface device on a particular frequency during normal use of the device.

For this TV interface is a wireless receiver, applying a test signal recommended in ANSI C63.4 by directly conducting is not practical and available, therefore, a general VITS test signal is applied via its respective transmitter.

6.2 Data of Measurement

Operation Condition : Receiving

Receiving Channel	Frequency Measured (MHz)		Meter Reading (dBm)		Matching Pad Loss (dB)	Result (uV)		Limit (uV)	
	Visual	Aural	Visual	Aural		Visual	Aural	Visual	Aural
CH 3	61.24	56.74	-41.9	-56.6	0.5	2330.9	42.9	3000	671
CH 4	67.24	62.72	-42.5	-56.6	0.5	2175.4	42.9	3000	671

Note : The audio channel showed above table is the one generating higher output level of tow audio channels.

6.3 Calculation of Data Measured

The measuring data for output signal level is calculated as following formula :

$$\text{Result (uV)} = \left[10^{\frac{(\text{Reading} + \text{Matching Pad Loss})}{10}} \times 75 \times 10^{-3} \right]^{\frac{1}{2}} \times 10^6$$

6.4 Equipment for RF Output Level Measurement

Equipment	Manufacturer	Model No.	Cal. Date
RF Test Receiver	Hewlett-Packard	8546A	02/11/1999

The parameters of instrument is set as following while measurement is performed :

Resolution Bandwidth : 100 KHz

Video Bandwidth : 100 KHz

Frequency Span : 10 MHz

Sweep Time : 200 ms

Function : Peak

7 CONDUCTED SPURIOUS EMISSION MEASUREMENT

7.1 Description of Measurement

According to section 12.2.5 of ANSI C63.4, the output signal level is the maximum voltage level present at the output terminal of a TV interface device on a particular frequency during normal use of the device.

For this TV interface is a wireless receiver, applying a test signal recommended in ANSI C63.4 by directly conducting is not practical and available, therefore, a general VITS test signal is applied via its respective transmitter.

7.2 Data of Measurement

A. Output Channel :3

Frequency MHz	Meter Reading dBm	Amplifier Gain dB	Pad Loss dB	Result in uV	Limit in uV
47.7	-61.7	26.0	0.5	12.0	95
52.2	-68.9	26.0	0.5	5.2	95
74.8	-61.9	25.8	0.5	12.0	95
118.0	-65.5	25.7	0.5	8.0	95
122.5	-53.8	25.7	0.5	30.7	95
127.0	-66.8	25.8	0.5	6.8	95
183.7	-60.8	25.4	0.5	14.2	95
244.9	-67.7	25.2	0.5	6.6	95
306.2	-63.3	25.4	0.5	10.7	95

Note :

1. Measuring instrument input impedance is selected with 75 Ohms when perform this item of measurement and a built in pre-amplifier is active.

B. Output Channel :4

Frequency MHz	Meter Reading dBm	Amplifier Gain dB	Pad Loss dB	Result in uV	Limit in uV
53.7	-61.4	26.0	0.5	12.4	95
58.2	-68.5	26.0	0.5	5.5	95
76.3	-71.3	25.8	0.5	4.1	95
80.8	-62.6	25.8	0.5	11.0	95
81.9	-69.3	25.8	0.5	5.1	95
130.0	-63.6	25.8	0.5	9.8	95
134.5	-51.6	25.8	0.5	39.1	95
139.0	-64.3	25.8	0.5	9.1	95
201.7	-60.5	25.2	0.5	15.0	95
269.0	-64.8	25.2	0.5	9.2	95
336.2	-70.9	25.6	0.5	4.3	95

7.3 Calculation of Data Measured

The measuring data for output signal level is calculated as following formula :

$$\text{Result (uV)} = \left[10^{\frac{(\text{Reading} + \text{Pad Loss} - \text{Amplifier Gain})}{10}} \times 75 \times 10^{-3} \right]^{\frac{1}{2}} \times 10^6$$

7.4 Equipment for Conducted Spurious Measurement

Equipment	Manufacturer	Model No.	Cal. Date
RF Test Receiver	Hewlett-Packard	8546A	02/11/1999

The parameters of Spectrum Analyzer is set as following while measurement is performed :

Resolution Bandwidth : 100 KHz

Video Bandwidth : 100 KHz

Frequency Span : 10 MHz

Sweep Time : 200 ms

Function : Peak

8 ANTENNA TRANSFER SWITCH MEASUREMENT

8.1 Description for measurement

For TV interface devices, according to § 15.115(c)(ii), isolation of transfer switch shall not exceed 0.346 times the square root of R (same as the R in RF output signal).

For this TV interface is a wireless receiver, applying a test signal recommended in ANSI C63.4 by directly conducting is not practical and available, therefore, a general VITS test signal is applied via its respective transmitter. The output terminal of transfer switch is terminated with a 75 Ohms load and an attenuator of 3 dB is connected to the input terminal of RF test receiver. There is no obvious change in this measurement when chose different receiving channels.

8.2 Data of Measurement

Output Channel	Measured Freq. (MHz)	Meter Reading (dBm)	Matching Pad Loss (dB)	Amplifier Gain (dB)	Result (uV)	Limit (uV)	Margin (uV)
3	61.24	-75.8	0.5	25.7	2.4	3.0	0.6
4	67.24	-77.0	0.5	25.6	2.2	3.0	0.8

Note :

1. Measuring instrument input impedance is selected with 75 Ohms when perform this item of measurement and a built in pre-amplifier is active.

8.3 Result Calculation

$$\text{Result (uV)} = \left[10^{\frac{(\text{Reading} + \text{Matching Pad Loss} - \text{Amplifier Gain})}{10}} \times 75 \times 10^{-3} \right]^{\frac{1}{2}} \times 10^6$$

8.4 Measuring Instrument

Equipment	Manufacturer	Model No.	Cal. Date
RF test Receiver	Hewlett-Packard	8546A	02/11/1999

The parameters of RF test receiver is set as following while measurement is performed :

Resolution Bandwidth : 100 KHz

Video Bandwidth : 100 KHz

Frequency Span : 1 MHz

Sweep Time : 200 ms

Function : Peak