

Exhibit A

Technical Report

SANGEAN ELECTRONICS INC.

FCC ID.: BYG002

**FM/AM/TV/WEATHER 4 BAND
RECEIVER**

Applicant Name and Address

Their full name and mailing address is given below:

Name: SANGEAN ELECTRONICS INC.

Address : *NO. 18, LANE 7, LI-DE STREET, CHUNG HO CITY,
TAIPEI HSIEN, TAIWAN R.O.C..*

Model No.: CCRADIO

AREA		TV CHANNEL FREQUENCY LIST (MHz)												
		ch 1	2	3	4	5	6	7	8	9	10	11	12	13
USA 向 (FCC)	receiving frequency		59.75	65.75	71.75	81.75	87.75	179.75	185.75	191.75	197.75	203.75	209.75	215.75
	Local Osc		70.45	76.45	82.45	92.45	98.45	169.05	175.05	181.05	187.05	193.05	199.05	205.05
JPN 向	receiving frequency	95.75	101.75	107.75	175.75	181.75	187.75	193.75	197.75	203.75	209.75	215.75	221.75	
	Local Osc	85.05	91.05	97.05	165.05	171.05	177.05	183.05	187.05	193.05	199.05	205.05	211.05	

AREA		WEATHER BAND FREQUENCY LIST (MHz)						
		Ch 7	1	4	2	3	5	6
USA (FCC)	receiving frequency	162.550	162.400	162.475	162.425	162.450	162.500	162.525
	Local Osc	151.850	151.700	151.775	151.725	151.750	151.800	151.825

BAND	AREA	receiving frequency	Local osc. frequency	Channel Space (Step)	
				Auto Seek	Manual Up / Down
WX ch				1 ch	1 ch
TV ch				1 ch	1 ch
FM	FM I (FCC)	87.50 ~ 108.00 MHz	(+10.7) 98.20 ~ 118.70 MHz	100 KHz	50 KHz / 100 KHz Selectable
	FM II	76.00 ~ 90.00 MHz	(-10.7) 65.30 ~ 79.30 MHz	100 KHz	50 KHz / 100 KHz Selectable
AM	AM 10K (FCC)	520 ~ 1710 KHz	(+450) 970 ~ 2160 KHz	10 KHz	10 KHz
	AM 9K	522 ~ 1629 KHz	(+450) 972 ~ 2079 KHz	9 KHz	9 KHz

FCC Part 15 Subpart B EMI TEST REPORT

of

E.U.T. : FM/AM/TV/WEATHER 4
BAND RECEIVER

MODEL : CCRADIO

for

APPLICANT : SANGEAN ELECTRONICS INC.

**ADDRESS : NO. 18, LANE 7, LI-DE STREET, CHUNG HO CITY,
TAIPEI HSIEN, 235, 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.**

Tel:(03)3280026-32

Fax:(03)3280034

Report Number : ET87R-07-085

TEST REPORT VERIFICATION

Applicant : SANGEAN ELECTRONICS INC.
NO. 18, LANE 7, LI-DE STREET, CHUNG HO CITY,
TAIPEI HSIEN, 235, TAIWAN, R.O.C.

Manufacturer : SANGEAN ELECTRONICS INC.
NO. 18, LANE 7, LI-DE STREET, CHUNG HO CITY,
TAIPEI HSIEN, 235, TAIWAN, R.O.C.

Description of EUT :

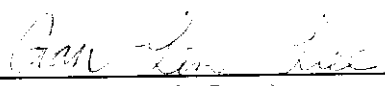
- a) Type of EUT : FM/AM/TV/WEATHER 4 BAND RECEIVER
- b) Trade Name : SANGEAN
- c) Model No. : CCRADIO
- d) Power Supply : 120VAC, 60Hz, DC 6V
- e) Frequency Rang : (FM)FM: 87.5-108MHz, AM: 520-1710KHz
(TV)VHF(L):59.75-87.75MHz, VHF(H):179.75-215.75MHz
WX:162.4-162.55MHz

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 expect in full, without the written approval of ETC.

Issued Date : AUG. 17, 1998

Test Engineer : 
(Gan-Lin Lee)

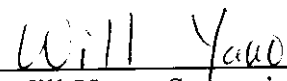
Approve & Authorized Signer : 
Will Yauo, Supervisor
EMI Test Site of ELECTRONICS
TESTING CENTER, TAIWAN

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1 GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : FM/AM/TV/WEATHER 4 BAND RECEIVER
- b) Trade Name : SANGEAN
- c) Model No. : CCRADIO
- d) Power Supply : 120VAC, 60Hz, DC 6V
- e) Frequency Rang : (FM)FM: 87.5-108MHz, AM: 520-1710KHz
(TV)VHF(L):59.75-87.75MHz, VHF(H):179.75-215.75MHz
WX:162.4-162.55MHz

1.2 Characteristics of Device

The FM/AM/TV/WEATHER 4 BAND RECEIVER is used for receiving weather radio station, it also can receiver FM, AM radio and TV audio channel (VHF) 2 to 13. This weather receiver is designed with a receiving method of super-heterodyne.

1.3 Test Methodology

For FM/AM/TV/WEATHER 4 BAND RECEIVER, both conducted and radiated testing were performed according to the procedures in section 12.1 of 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 Lirn, 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

(1) Conducted Emission Limits :

Class B Line Conducted Emission Limits :

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

(2) Radiated Emission Limits :

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

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

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.

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	Description
FM/AM/TV/WEATHER 4 BAND RECEIVER*	SANGEAN ELECTRONICS INC.	CCRADIO	1.2m Unshielded Power Cord
Earphone	SANGEAN ELECTRONICS INC.	----	0.8m Unshielded Signal Cable

Remark “*” means equipment under test.

3.3 TV & Weather Receiving Channel List

TV:

CH	2	3	4	5	6	7	8	9	10	11	12	13
Local Osc	70.45	76.45	82.45	92.45	98.45	169.05	175.05	181.05	187.05	193.05	199.05	205.05

Weather:

CH	1	2	3	4	5	6	7
Local Osc	151.700	151.725	151.750	151.775	151.800	151.825	151.850

4 RADIATED EMISSION MEASUREMENT

4.1 Description for Radiated Emission Measured

According to § 15.33 (b)(3), except for a CB receiver, a receiver employing super-heterodyne techniques shall be investigated from 30 MHz up to at least the second harmonic of the highest local oscillator frequency generated in the device.

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 FM/AM/TV/WEATHER 4 BAND RECEIVER, it was operated with a built-in antenna.

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 Local Oscillator Emissions

Operation Mode : NormalTest Date : JUL. 29 1998Temperature : 24 °CHumidity: 50%

a. Channel 2 (Fundamental Frequency : 70.45 MHz)

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)
70.450	V	54.4	-16.4	38.0	40.0	-2.0	236	1.24
140.900	V	51.9	-10.7	41.2	43.5	-2.3	272	1.42
211.350	V	40.7	-6.4	34.3	43.5	-9.2	215	1.38
281.800	H/V	---	-2.6	---	46.0	---	---	---
352.250	H/V	---	-10.1	---	46.0	---	---	---
422.700	H/V	---	-5.6	---	46.0	---	---	---
493.150	H/V	---	-4.4	---	46.0	---	---	---
563.600	H/V	---	-5.3	---	46.0	---	---	---
634.050	H/V	---	-3.2	---	46.0	---	---	---
704.500	H/V	---	-1.0	---	46.0	---	---	---
774.950	H/V	---	-0.3	---	46.0	---	---	---
845.400	H/V	---	2.1	---	46.0	---	---	---
915.850	H/V	---	2.4	---	46.0	---	---	---
986.300	H/V	---	3.6	---	54.0	---	---	---

b. Channel 7 (Fundamental Frequency : 169.05 MHz)

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)
169.050	V	49.7	-9.0	40.7	43.5	-2.8	313	1.24
338.100	H	45.7	-8.7	37.0	46.0	-9.0	204	1.36
507.150	V	36.2	-4.6	31.6	46.0	-14.4	194	1.27
676.200	H/V	---	-1.0	---	46.0	---	---	---
845.250	H/V	---	2.1	---	46.0	---	---	---

c. Channel 13 (Fundamental Frequency : 205.05 MHz)

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)
205.050	V	45.0	-6.8	38.2	43.5	-5.3	299	1.43
410.100	H	46.4	-6.0	40.4	46.0	-5.6	168	1.23
615.150	H	34.2	-3.8	30.4	46.0	-15.6	172	1.37
820.200	H/V	---	1.3	---	46.0	---	---	---

4.2.2 FM Local Oscillator EmissionsOperation Mode : NormalTest Date : JUL. 29, 1998Temperature : 24 °CHumidity: 50%

(1). Fundamental Frequency : 98.7 MHz

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)
98.700	H	49.9	-13.9	36.0	43.5	-7.5	303	2.42
197.400	V	41.2	-7.4	33.8	43.5	-9.7	25	1.05
296.100	V	29.9	-1.3	28.6	46.0	-17.4	342	1.43
394.800	H	34.0	-6.3	27.7	46.0	-18.3	35	1.37
493.500	H/V	---	-4.4	---	46.0	---	---	---
592.200	H/V	---	-4.7	---	46.0	---	---	---
690.900	H/V	---	-1.0	---	46.0	---	---	---
789.600	H/V	---	0.3	---	46.0	---	---	---
888.300	H/V	---	2.2	---	46.0	---	---	---
987.000	H/V	---	3.6	---	54.0	---	---	---

(2). Fundamental Frequency : 110.7 MHz

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)
110.700	V	52.6	-11.6	41.0	43.5	-2.5	295	1.00
221.400	V	32.3	-5.7	26.6	46.0	-19.4	145	1.07
332.100	H	39.9	-7.8	32.1	46.0	-13.9	268	1.68
442.800	H	33.0	-5.6	27.4	46.0	-18.6	314	1.72
553.500	H/V	---	-5.2	---	46.0	---	---	---
664.200	H/V	---	-1.8	---	46.0	---	---	---
774.900	H/V	---	-0.3	---	46.0	---	---	---
885.600	H/V	---	2.3	---	46.0	---	---	---
996.300	H/V	---	3.8	---	54.0	---	---	---

(3). Fundamental Frequency : 118.7 MHz

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)
118.700	V	50.1	-10.9	39.2	43.5	-4.3	215	1.04
237.400	H	34.1	-4.7	29.4	46.0	-16.6	312	2.14
356.100	H	35.0	-9.4	25.6	46.0	-20.4	273	1.87
474.800	H	32.8	-4.5	28.3	46.0	-17.7	301	2.01
593.500	H/V	---	-4.7	---	46.0	---	---	---
712.200	H/V	---	-0.9	---	46.0	---	---	---
830.900	H/V	---	1.7	---	46.0	---	---	---
949.600	H/V	---	3.3	---	46.0	---	---	---

4.2.3 WX Local Oscillator EmissionsOperation Mode : NormalTest Date : JUL. 29, 1998Temperature : 24 °CHumidity: 50%

Fundamental Frequency : 151.770 MHz

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)
151.770	V	46.9	-9.9	37.0	43.5	-6.5	181	1.06
303.538	H	30.4	-7.0	23.4	46.0	-22.6	176	1.56
455.307	H	32.2	-5.4	26.8	46.0	-19.2	190	1.99
607.076	H	30.7	-4.2	26.5	46.0	-19.5	225	2.13
758.845	H	30.6	-0.3	30.3	46.0	-15.7	237	1.48
910.623	H/V	----	-0.3	----	46.0	----	----	----

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:

$$RESULT = READING + CORR. FACTOR$$

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	10/16/1998
Quasi Peak Adapter	Hewlett-Packard	85650A	10/07/1998
Pre-selector	Hewlett-Packard	85685A	10/16/1998
Pre-Amplifier	Hewlett-Packard	8447D	12/23/1998
Horn Antenna	EMCO	3115	08/05/1999
Log Periodic Antenna	EMCO	3146	12/10/1999
Biconical Antenna	EMCO	3108	08/05/1999

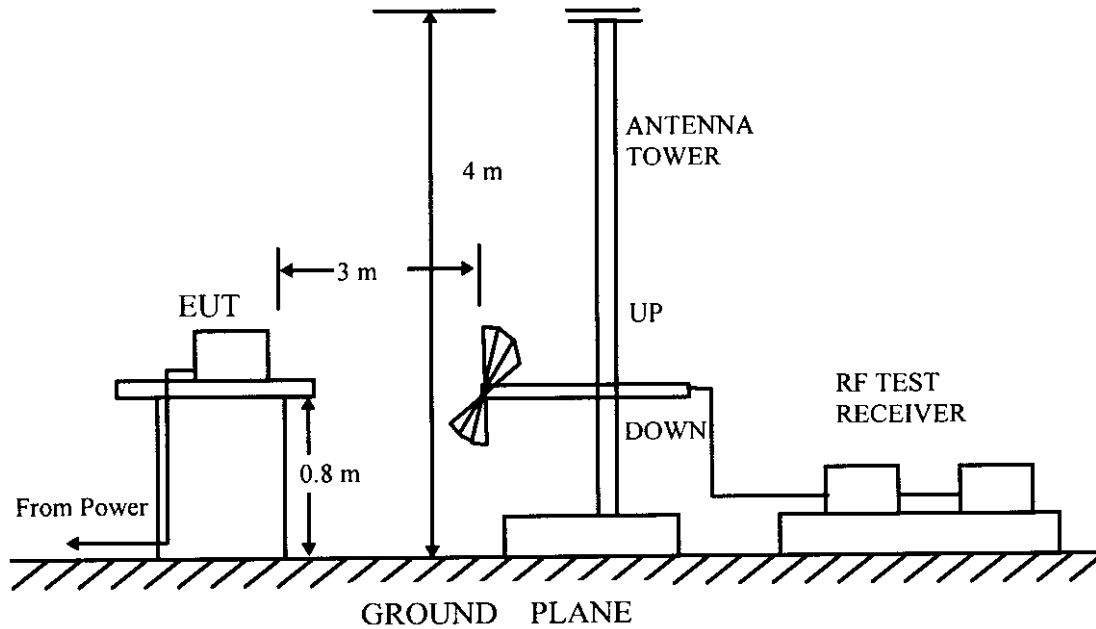
4.5 Measuring Instrument Setup

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

4.7 Open Field Test Site Setup Diagram

Radiated Emission's Frequency Below 1 GHz



5 CONDUCTED EMISSION MEASUREMENT

5.1 Description

Per 15.107(a), the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 450 kHz to 30 MHz shall not exceed 250 microvolts or 48 dBuV.

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.

5.2 Conducted Emission Data

5.2.1 TV Mode

Test Date : AUG. 07, 1998Temperature : 23 °CHumidity: 50%

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	L1	L2		L1	L2		
0.4906	3.4	2.7	0.2	3.6	2.9	48.0	-44.4
11.9824	5.9	4.2	0.6	6.5	4.8	48.0	-41.5
15.2103	7.3	6.6	0.8	8.1	7.4	48.0	-39.9
23.6606	21.9	21.4	1.0	22.9	22.4	48.0	-25.1
25.3509	26.7	19.7	1.0	27.7	20.7	48.0	-20.3
27.0407	30.4	21.4	1.0	31.4	22.4	48.0	-16.6

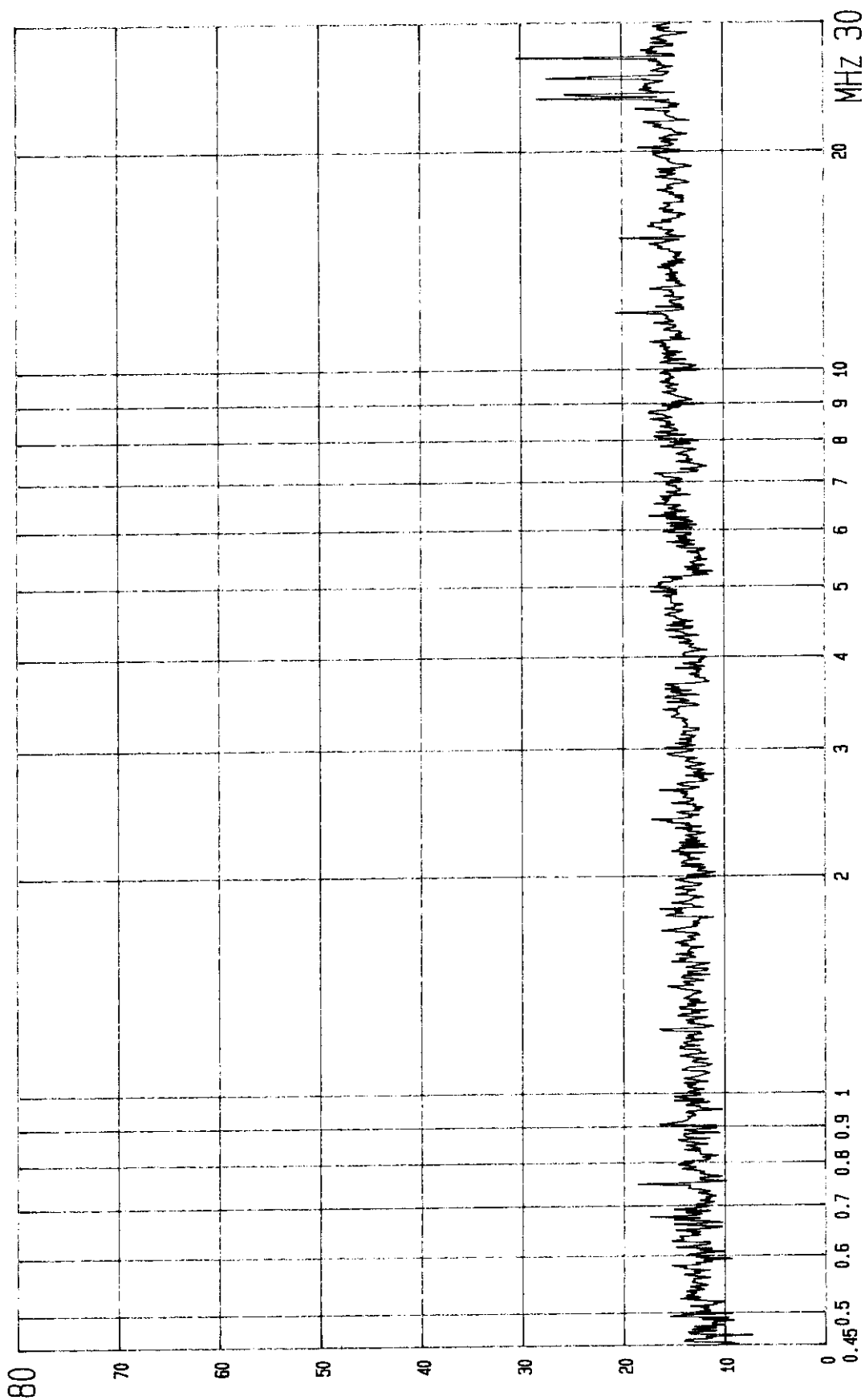
5.2.2 FM ModeTest Date : AUG. 07, 1998Temperature : 23 °CHumidity: 50%

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	L1	L2		L1	L2		
0.4500	3.1	3.4	0.2	3.3	3.6	48.0	-44.4
12.0051	3.6	4.8	0.6	4.2	5.4	48.0	-42.6
15.2101	4.6	5.7	0.8	5.4	6.5	48.0	-41.5
23.6606	18.0	19.6	1.0	19.0	20.6	48.0	-27.4
25.3508	19.4	17.6	1.0	20.4	18.6	48.0	-27.6
27.0408	21.4	21.0	1.0	22.4	22.0	48.0	-25.6

5.2.3 WX ModeTest Date : AUG. 07, 1998Temperature : 23 °CHumidity: 50%

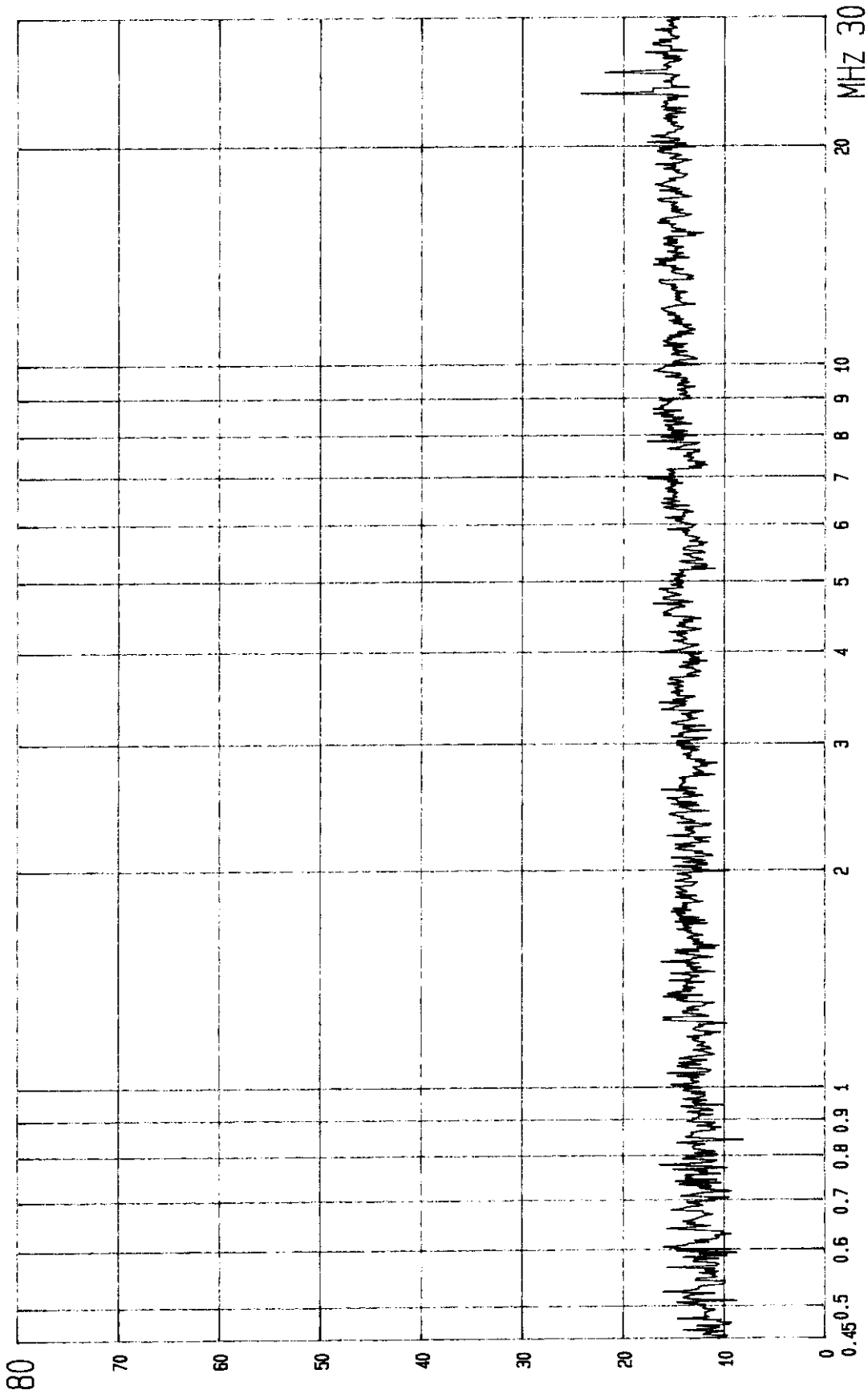
Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	Va	Vb		Va	Vb		
0.4562	4.6	5.2	0.2	4.8	5.4	48.0	-42.6
1.1473	6.2	6.4	0.3	6.5	6.7	48.0	-41.3
20.2806	12.1	13.4	0.9	13.0	14.3	48.0	-33.7
21.9700	9.3	8.4	0.9	10.2	9.3	48.0	-37.8
23.6607	15.2	14.3	1.0	16.2	15.3	48.0	-31.8
25.3507	19.7	20.2	1.0	20.7	21.2	48.0	-26.8

dBuV

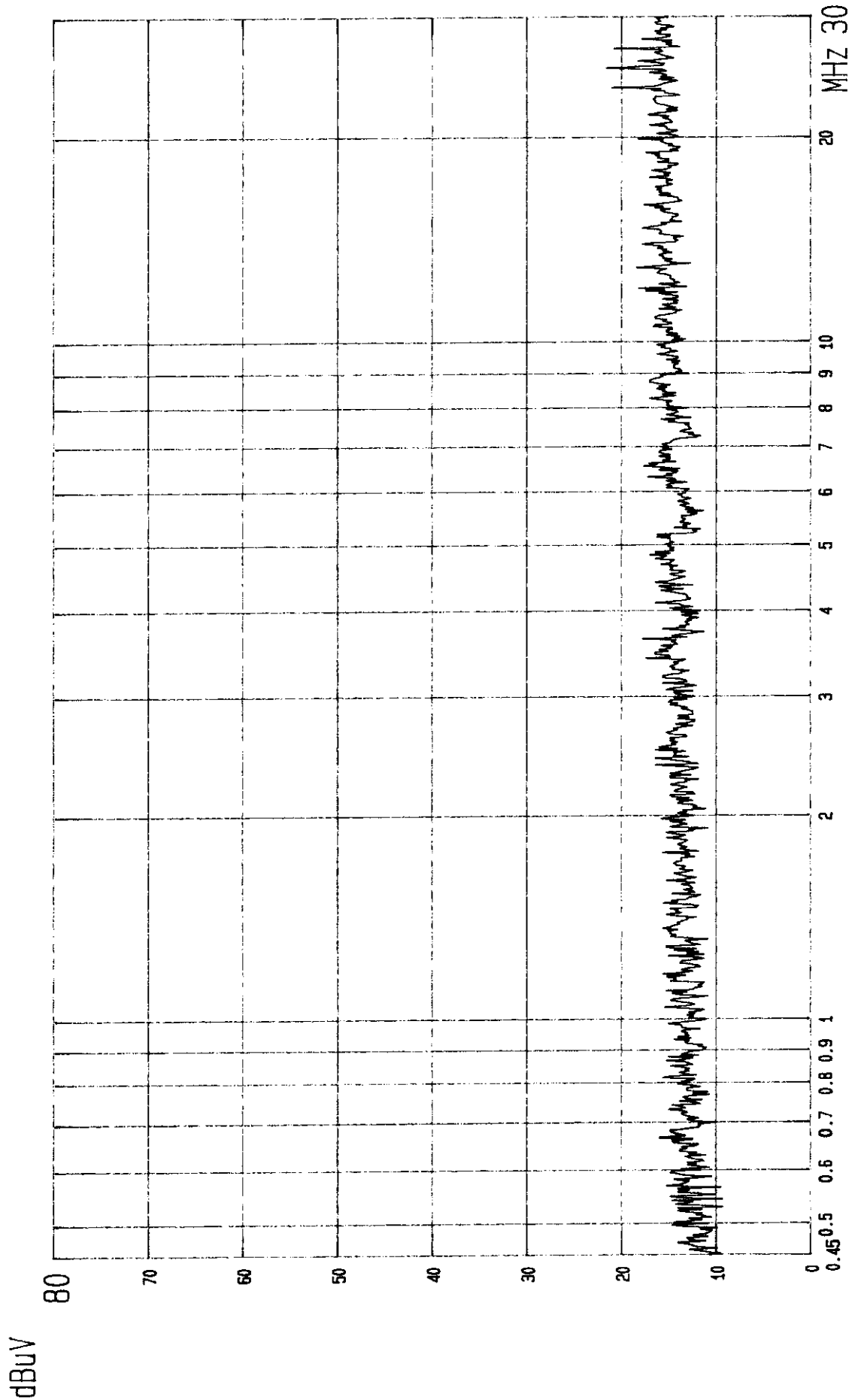


FCC CONDUCTED TEST EUT: FM/TV/WX/MW 4 BAND RECEIVER 2:QP., CLASS B LIMIT
MODEL: CCRADIO MODE: TV POWER: 120V/60HZ LISN:L1 ETC EMC LAB.

dBuV

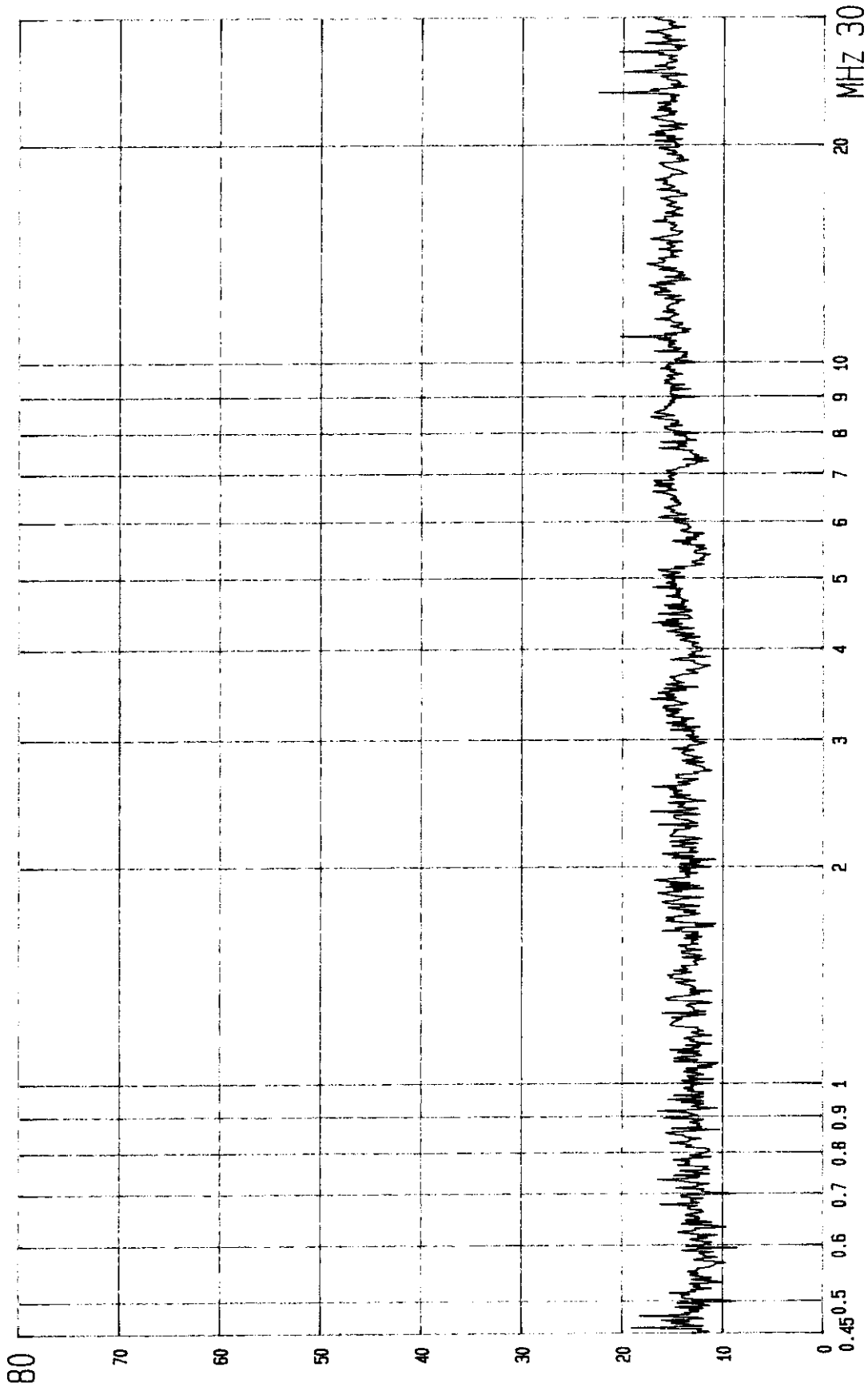


FCC CONDUCTED TEST EUT: FM/TV/WX/MW 4 BAND RECEIVER 2: QP., CLASS B LIMIT
MODEL: CCRADIO MODE: TV POWER: 120V/60HZ LISN: L2 ETC EMC LAB.



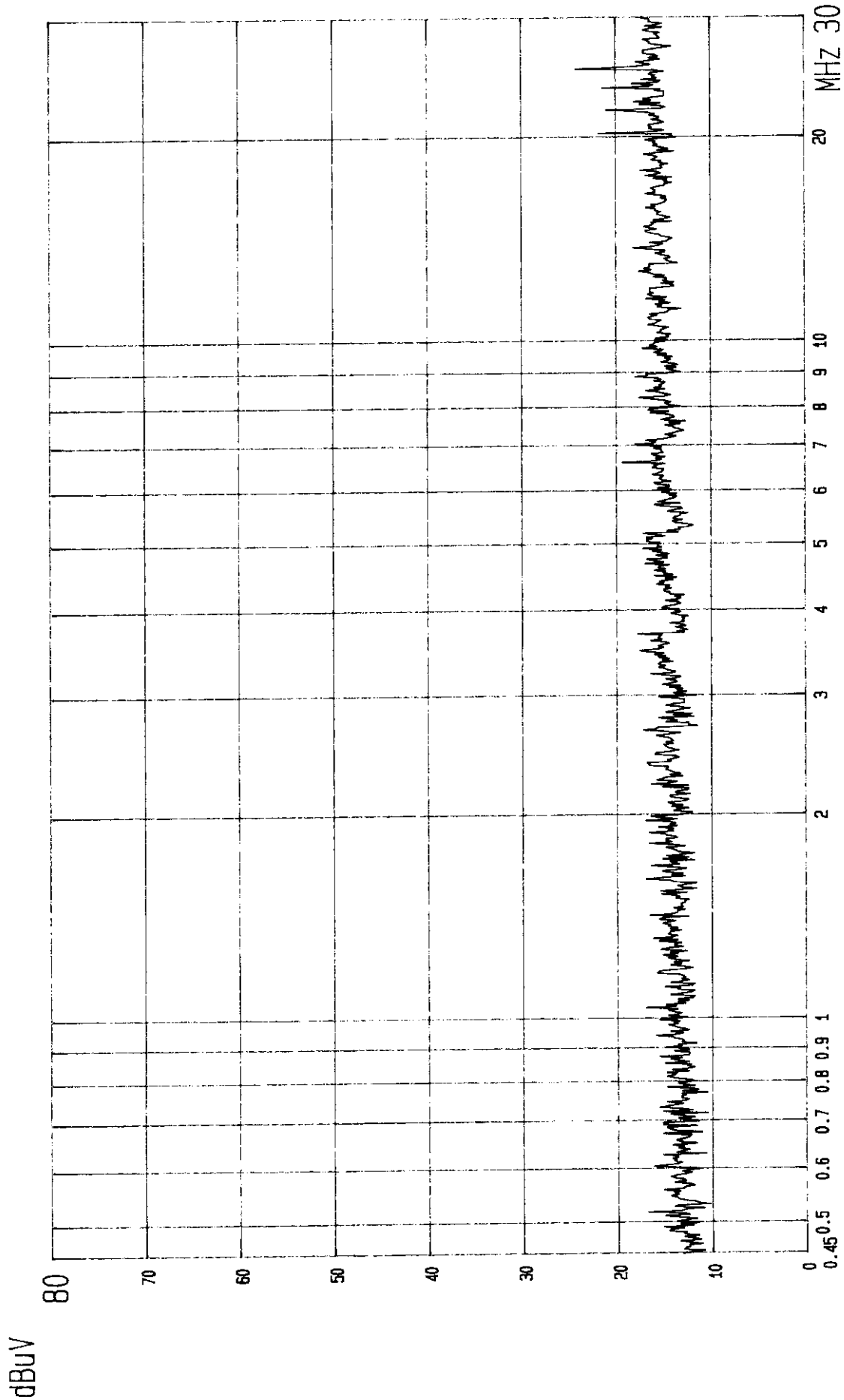
FCC CONDUCTED TEST EUT: FM/TV/WX/MW 4 BAND RECEIVER 2:QP., CLASS B LIMIT
MODEL: CCRADIO MODE: FM POWER: 120V/60Hz LISN: L1 ETC EMC LAB.

dBuV



|---

FCC CONDUCTED TEST EUT: FM/TV/WX/MW 4 BAND RECEIVER 2: QP., CLASS B LIMIT
MODEL: CCRADIO MODE: FM POWER: 120V/60HZ LISN: L2 ETC EMC LAB.



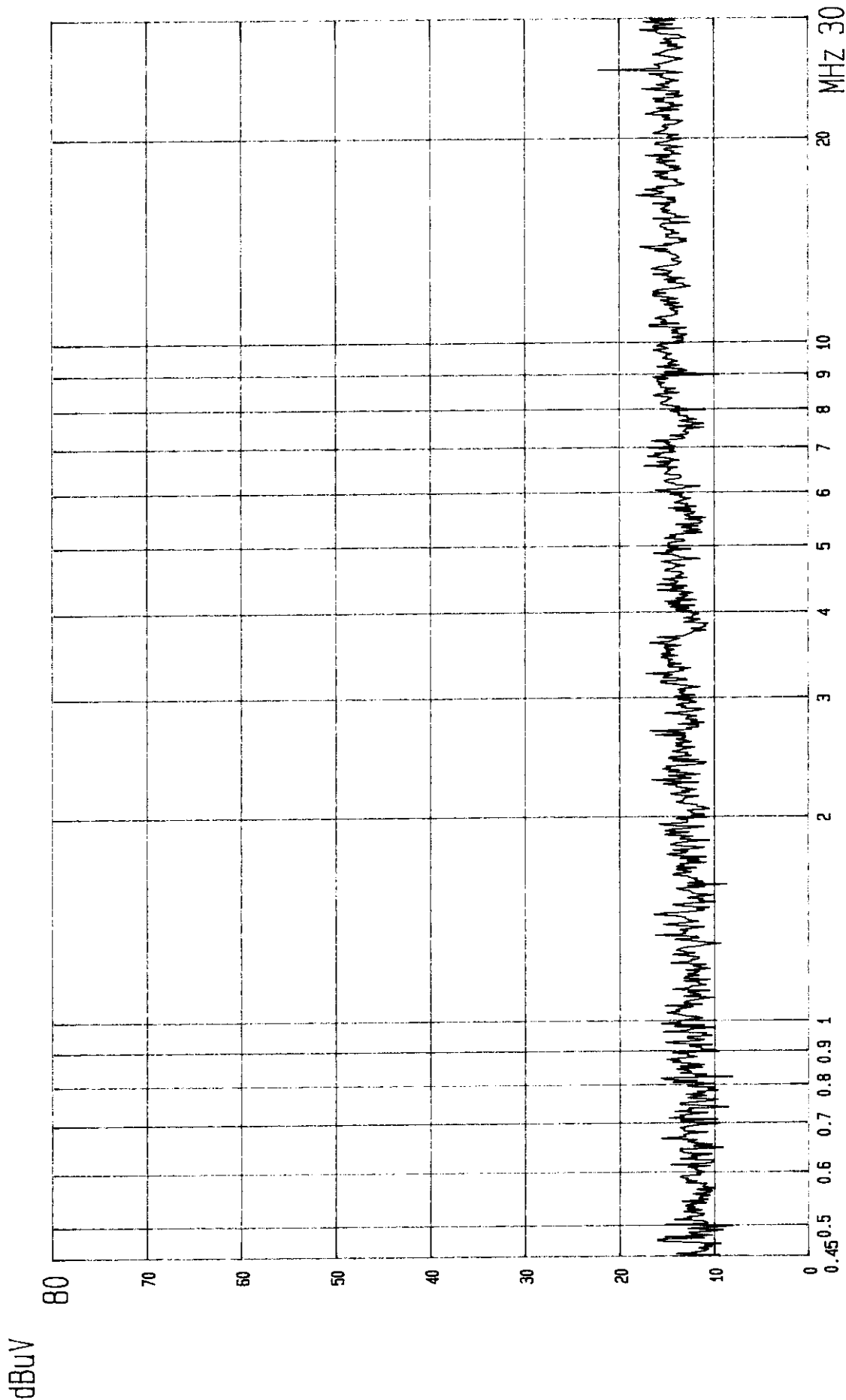
CLASS B LIMIT
ETC EMC LAB.

2: QP.,
LISN: Va

EUT: FM/TV/WX/MW 4 BAND RECEIVER
POWER: 120V/60HZ

MODE: WX

CCRADIO



FCC CONDUCTED TEST EUT: FM/TV/WX/MW 4 BAND RECEIVER 2:QP., CLASS B LIMIT
MODEL: CCRADIO MODE: WX POWER: 120V/60HZ LISN: Vb ETC EMC LAB.

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:

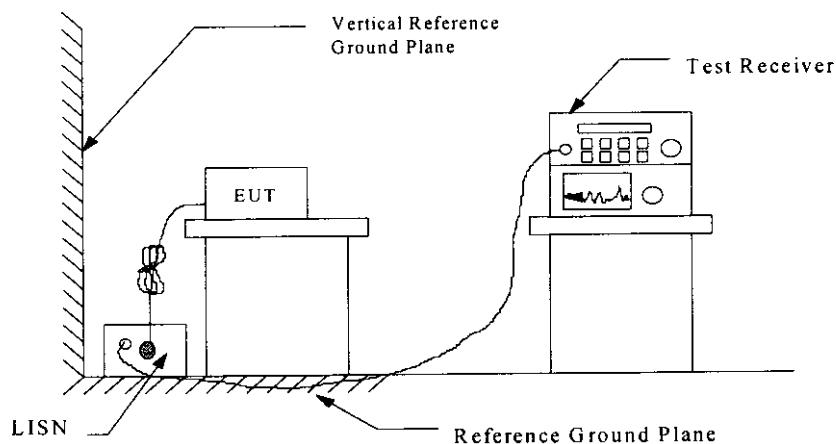
$$\text{RESULT} = \text{READING} + \text{LISN FACTOR}$$

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.

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

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

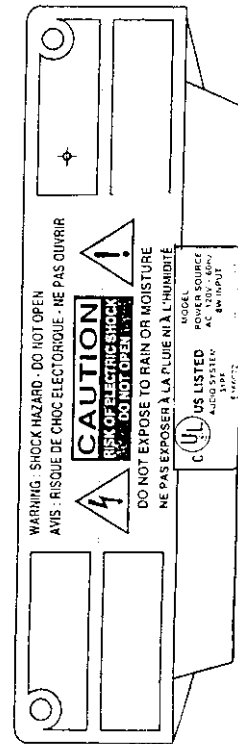
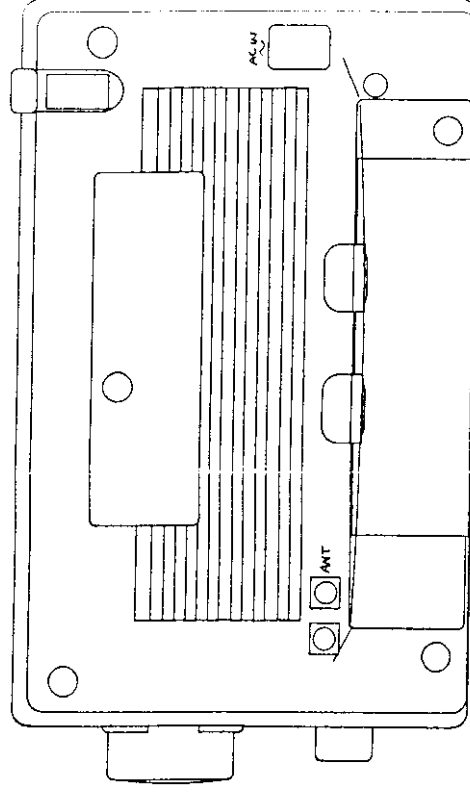
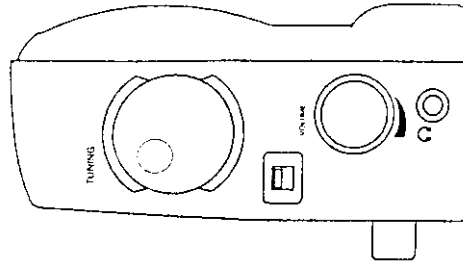
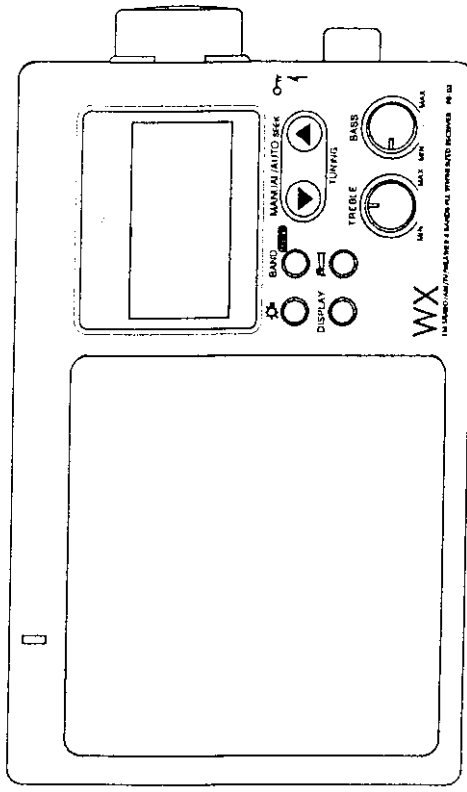
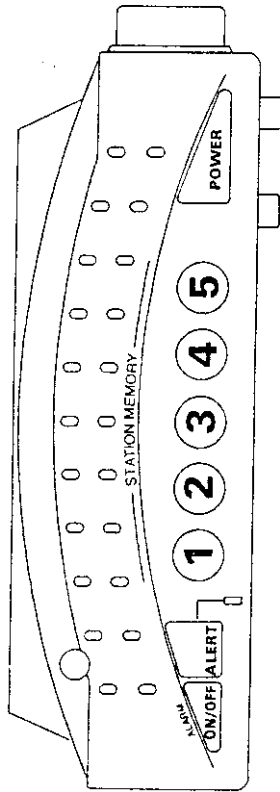
5.4 Conducted Measuring Setup Diagram



5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipment	Manufacturer	Model No.	Next Cal. Due
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	12/10/1998
Printer	Rohde and Schwarz	PUD-3	N.C.R.
Plotter	Hewlett-Packard	7440A	N/A
Shielded Room	Riken		N.C.R.
Color TV Pattern Generator	PHILIPS	PM5418	03/08/1999
Signal Generator	HP	8656B	08/20/1999



77 mm

27 mm

UL **US LISTED**
AUDIO SYSTEM
31PF
E186072

MODEL: CCRadio
FCC ID: BYG 002
POWER SOURCE
AC: 120V ~ 60Hz
8W INPUT
MADE IN CHINA