



EMI TEST REPORT

JQA APPLICATION NO. : 400-00673

Model No. : TMR-RF975R

Type of Equipment : RF STEREO TRANSMITTER

Regulations Applied : CFR 47 FCC Rules and Regulations Part 15

FCC ID : AK8TMRRF975R

Applicant : Sony Corporation

Address : 6-7-35 Kitashinagawa, Shinagawa-ku,
Tokyo 141-0001, Japan

Manufacture : Sony Corporation

Address : 6-7-35 Kitashinagawa, Shinagawa-ku,
Tokyo 141-0001, Japan

Received date of EUT : March 12, 2001

Final Judgment : Passed

TEST RESULTS IN THIS REPORT are obtained in use of equipment that is traceable to Electro-Technical Lab. of METI and Communications Research Lab. of MPHPT.

The test results only respond to the tested sample. This report should not be reproduced except in full, without the written approval of JQA EMC Engineering Dept. Testing Div.

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1 DOCUMENTATION**1.1 TEST REGULATION**

FCC Rules and Regulations Part 15 Subpart A and C (June 23, 1989) Intentional Radiators

Test procedure :

AC power line conducted emission, radiated emission, frequency stability and occupied bandwidth tests were performed according to the procedures in ANSI C63.4-1992.

1.2 GENERAL INFORMATION**1.2.1 Test facility :**

1) Test Facility located at EMC Engineering Dept. Testing Div. :

- No.2 and 3 Anechoic Chambers(3 meters Site).
- Shielded Enclosure.

Expiration date of FCC test facility filing : June 04, 2002

2) EMC Engineering Dept. Testing Div. is recognized under the National Voluntary Laboratory accreditation Program for satisfactory compliance established in title 15, Part 285 Code of Federal Regulations.

NVLAP Lab Code : 200189-0 (Effective through : June 30, 2001)

1.2.2 Description of the Equipment Under Test (EUT) :

- | | |
|---|---|
| 1) Type of Equipment | : RF Stereo Transmitter |
| 2) Product Type | : Prototype |
| 3) Category | : Low Power Communication Device
Transmitter |
| 4) EUT Authorization | : Certification |
| 5) FCC ID | : AK8TMRRF975R |
| 6) Trade Name | : SONY |
| 7) Model No. | : TMR-RF975R |
| 8) Operating Frequency Range | : 913.5 MHz - 914.5 MHz |
| 9) Highest Frequency Used in the EUT | : 914.5 MHz |
| 10) Serial No. | : None |
| 11) Date of Manufacture | : None |
| 12) Power Rating | : DC 9.0 V |
| The EUT was operated with the AC adaptor(Model:AC-S901, Input:120VAC 60Hz,
Output:9.0VDC by SONY). | |
| 13) EUT Grounding | : None |

1.2.3 Definitions for symbols used in this test report :

- x - indicates that the listed condition, standard or equipment is applicable for this report.
- indicates that the listed condition, standard or equipment is not applicable for this report.

1.3 TEST CONDITION

1.3.1 The measurement of the AC Power Line Conducted Emission

- was performed in the following test site.

- was not applicable.

Test location :

Safety Testing Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

- Shielded Enclosure

- Anechoic Chamber No. 2 (portable Type)

Used test instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
<input checked="" type="checkbox"/> - Test Receiver	ESH-2	Rohde & Schwarz	880370/016	Sep. 2000	1 Year
<input type="checkbox"/> - Test Receiver	ESH-3	Rohde & Schwarz	881460/030	June 2000	1 Year
<input type="checkbox"/> - LISN(for Peripheral)	KNW-407	Kyoritsu Electrical	8-833-6	Apr. 2000	1 Year
<input type="checkbox"/> - LISN(for EUT)	KNW-407	Kyoritsu Electrical	8-855-2	Apr. 2000	1 Year
<input type="checkbox"/> - LISN	KNW-407	Kyoritsu Electrical	8-757-1	Apr. 2000	1 Year
<input type="checkbox"/> - RF Cable	3D-2W	Fujikura	155-21-006E0	Apr. 2000	1 Year
<input checked="" type="checkbox"/> - RF Cable	3D-2W	Fujikura	155-21-007E0	Apr. 2000	1 Year
<input type="checkbox"/> - 50ohm Termination	-	SUHNER	154-06-501E0	Jan. 2001	1 Year
<input type="checkbox"/> - 50ohm Termination	-	SUHNER	154-06-502E0	Jan. 2001	1 Year

1.3.2 The measurement of the Radiated Emission(30 MHz - 1000 MHz)

- was performed in the following test site.
 - was not applicable.

Test location :

Safety Testing Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

- Anechoic Chamber No. 2 (3 meters)
 - Anechoic Chamber No. 3 (3 meters)

Validation of Site Attenuation :

- 1) Last Confirmed Date :March, 2000
2) Interval :1 year

Used test instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
<input type="checkbox"/> - Test Receiver	ESH-2	Rohde & Schwarz	880370/016	Sep. 2000	1 Year
<input type="checkbox"/> - Test Receiver	ESV	Rohde & Schwarz	872148/039	May 2000	1 Year
<input checked="" type="checkbox"/> - Test Receiver	ESVS10	Rohde & Schwarz	826148/002	May 2000	1 Year
<input type="checkbox"/> - Test Receiver	ESVS10	Rohde & Schwarz	832699/001	May 2000	1 Year
<input checked="" type="checkbox"/> - Antenna	KBA-511A	Kyoritsu Electrical	0-170-1	Nov. 2000	1 Year
<input type="checkbox"/> - Antenna	KBA-511A	Kyoritsu Electrical	0-201-13	Nov. 2000	1 Year
<input checked="" type="checkbox"/> - Antenna	KBA-611	Kyoritsu Electrical	0-147-14	Nov. 2000	1 Year
<input type="checkbox"/> - Antenna	KBA-611	Kyoritsu Electrical	0-210-5	Nov. 2000	1 Year
<input type="checkbox"/> - Biconical Antenna	BBA9106	Schwarzbeck	VHA91031150	May 2000	1 Year
<input type="checkbox"/> - Biconical Antenna	BBA9106	Schwarzbeck	11905078E0	May 2000	1 Year
<input type="checkbox"/> - Log-Periodic Antenna	UHALP9107	Schwarzbeck	11905079E0	May 2000	1 Year
<input type="checkbox"/> - Log-Periodic Antenna	UHALP9107	Schwarzbeck	11905110	May 2000	1 Year
<input checked="" type="checkbox"/> - RF Cable	5D-2W	Fujikura	155-21-001E0	Feb. 2001	1 Year
<input type="checkbox"/> - RF Cable	5D-2W	Fujikura	155-21-002E0	Feb. 2001	1 Year

1.3.3 The measurement of the Radiated Emission(Above 1000 MHz)

- was performed in the following test site.
 - was not applicable.

Test location :

Safety Testing Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

- No. 2 site (3 meters)
 - No. 3 site (3 meters)

Validation of Site Attenuation :

- 1) Last Confirmed Date : N/A
2) Interval : N/A

Used test instruments :

	Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
<input type="checkbox"/>	- Spectrum Analyzer	8560E	Hewlett Packard	3240A00189	Nov. 2000	1 Year
<input type="checkbox"/>	- Spectrum Analyzer	8566B	Hewlett Packard	2140A01091	Apr. 2000	1 Year
<input type="checkbox"/>	- RF Pre-selector	85685A	Hewlett Packard	2648A00522	Apr. 2000	1 Year
<input checked="" type="checkbox"/>	- Spectrum Analyzer	8566B	Hewlett Packard	2747A05855	June 2000	1 Year
<input checked="" type="checkbox"/>	- RF Pre-selector	85685A	Hewlett Packard	2091A00933	June 2000	1 Year
<input checked="" type="checkbox"/>	- Log-Periodic Antenna	HL 025	Rohde & Schwarz	340182/015	Nov. 2000	1 Year
<input type="checkbox"/>	- RF Amplifier	DBP-0102N5334272B	DBS Microwave Inc.	012	Mar. 2001	1 Year
<input checked="" type="checkbox"/>	- RF Amplifier	WJ-6882-814	Watkins-Johnson	0414	June 2000	1 Year
<input checked="" type="checkbox"/>	- RF Amplifier	WJ-5315-556	Watkins-Johnson	106	June 2000	1 Year
<input type="checkbox"/>	- RF Amplifier	WJ-5320-307	Watkins-Johnson	645	June 2000	1 Year
<input checked="" type="checkbox"/>	- RF Cable(10m)	S 04272B	Suhner	155-21-011E0	May 2000	1 Year
<input type="checkbox"/>	- RF Cable(2m)	SUCOFLEX 104	Suhner	155-21-012E0	May 2000	1 Year
<input checked="" type="checkbox"/>	- RF Cable(1m)	SUCOFLEX 104	Suhner	155-21-013E0	May 2000	1 Year

1.3.4 The measurement of the Frequency Stability

- was performed.
 - was not applicable.

Used test instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
<input type="checkbox"/> - Frequency Counter	53131A	Hewlett Packard	3546A11807	June 2000	1 Year
<input type="checkbox"/> - Oven	-	Ohnishi Co. Ltd.	-	Aug. 2000	1 Year
<input type="checkbox"/> - DC Power Supply	6628A	Hewlett Packard	3224A00284	July 2000	1 Year

1.3.5 The measurement of the Occupied Bandwidth

- was performed.
 - was not applicable.

Used test instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
<input type="checkbox"/> - Spectrum Analyzer	8566B	Hewlett Packard	2140A01091	Apr. 2000	1 Year
<input checked="" type="checkbox"/> - Spectrum Analyzer	8566B	Hewlett Packard	2747A05855	June 2000	1 Year
<input checked="" type="checkbox"/> - Function Generator	3325A	Hewlett Packard	2512A21776	May 2000	1 Year
<input checked="" type="checkbox"/> - FM Linear Detector	MS61A	Anritsu Corp.	M77486	Sep. 2000	1 Year
<input checked="" type="checkbox"/> - Level Meter	ML422C	Anritsu Corp.	M87571	June 2000	1 Year
<input type="checkbox"/> - Measuring Amplifier	2636	B & K	1614851	June 2000	1 Year
<input type="checkbox"/> - AF Amplifier	P-500L	Accuphase	BOY806	June 2000	1 Year
<input type="checkbox"/> - Microphone	4134	B & K	1269477	June 2000	1 Year
<input type="checkbox"/> - Preamplifier	2639	B & K	1268763	June 2000	1 Year
<input type="checkbox"/> - Pistonphone	4220	B & K	1165008	June 2000	1 Year
<input type="checkbox"/> - Artificial Mouth	4227	B & K	1274869	N/A	N/A



1.4 EUT MODIFICATION / Deviation from Standard

1.4.1 EUT MODIFICATION

- No modifications were conducted by JQA to achieve compliance to Class B levels.
- To achieve compliance to Class B levels, the following changes were made by JQA during the compliance test.

The modifications will be implemented in all production models of this equipment.

Applicant :	Date :
Typed Name :	Position :

1.4.2 Deviation from Standard:

- No deviations from the standard described in clause 1.1.
- The following deviations were employed from the standard described in clause 1.1:



1.5 TEST RESULTS

AC Power Line Conducted Emission x - Applicable - NOT Applicable
[§15.207(a)]

The requirements are x - PASSED - NOT PASSED

Remarks :

Radiated Emission x - Applicable - NOT Applicable
[§15.249(a)(c)]

The requirements are x - PASSED - NOT PASSED

Remarks:

Frequency Stability - Applicable x - NOT Applicable

The requirements are - PASSED - NOT PASSED

Remarks:

Occupied Bandwidth [§15.249(c)] x - Applicable - NOT Applicable

The requirements are x - PASSED - NOT PASSED

Remarks:

1.6 SUMMARY**General Remarks :**

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart A, B and C (June 23, 1989) under the test configuration, as shown in clause 1.7 to 1.10.

The conclusion for the test items which are required by the applied regulation is indicated under the final judgment.

Final Judgment :

The "as received" sample;

- x - fulfill the test requirements of the regulation mentioned on clause 1.1.
- fulfill the test requirements of the regulation mentioned on clause 1.1, but with certain qualifications.
- doesn't fulfill the test regulation mentioned on clause 1.1.

Begin of testing : March 14, 2001

End of testing : March 15, 2001

- JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by:

Issued by:



Masaaki Takahashi
Manager
JQA EMC Engineering Dept.



Shigeru Osawa
Assistant Manager
JQA EMC Engineering Dept.

1.7 TEST CONFIGURATION / OPERATION OF EUT**1.7.1 Test Configuration**

The equipment under test (EUT) consists of :

Symbol	Item	Manufacturer	Model No.	FCC ID	Serial No.
A(*1)	RF Stereo Transmitter	Sony Corporation	TMR-RF975R	AK8TMRRF975R	None
B	AC Adaptor	Sony Corporation	AC-S901	None	None

Note 1. This equipment was operated with the AC adaptor (Input:120VAC, 60Hz, Output:9.0VDC by Sony).

The measurements was carried out with the following supported connected :

Symbol	Item	Manufacturer	Model No.	Serial No.
C	Cassette Corder	Sony Corporation	TCM-20DV	590031

Type of Cable :

Symbol	Description	Identification (Manufacturer etc.)	Shielded YES / NO	Ferrite Core	Connector type Shielded YES / NO	Length (m)
1	AC Adaptor Cable	Sony Corporation	NO	NO	NO	2.0
2	Audio Cable	Sony Corporation	NO	NO	NO	1.0

1.7.2 Operating condition

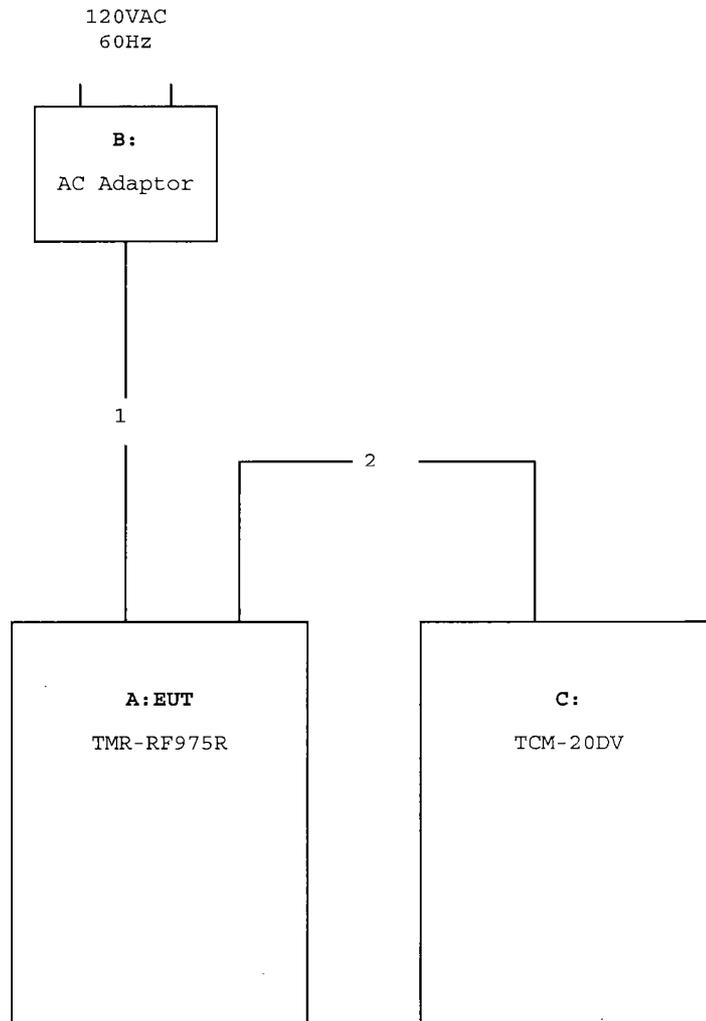
Power supply Voltage : 120VAC 60Hz (for AC Adaptor)

The tests have been carried out under the following condition.

- Transmitting (Operating Frequency: 913.5 and 914.5 MHz)

1.7.3 Generating and Operating frequency of EUT

913.5 MHz and 914.5 MHz

1.8 EUT ARRANGEMENT (DRAWINGS)

1.9 PRELIMINARY TEST AND TEST-SETUP (DRAWINGS)

1.9.1 AC Power Line Conducted Emission (450 kHz - 30 MHz) :

According to description of ANSI C63.4-1992 sec.13.1.3.1, the AC power line preliminary conducted emissions measurements were carried out.

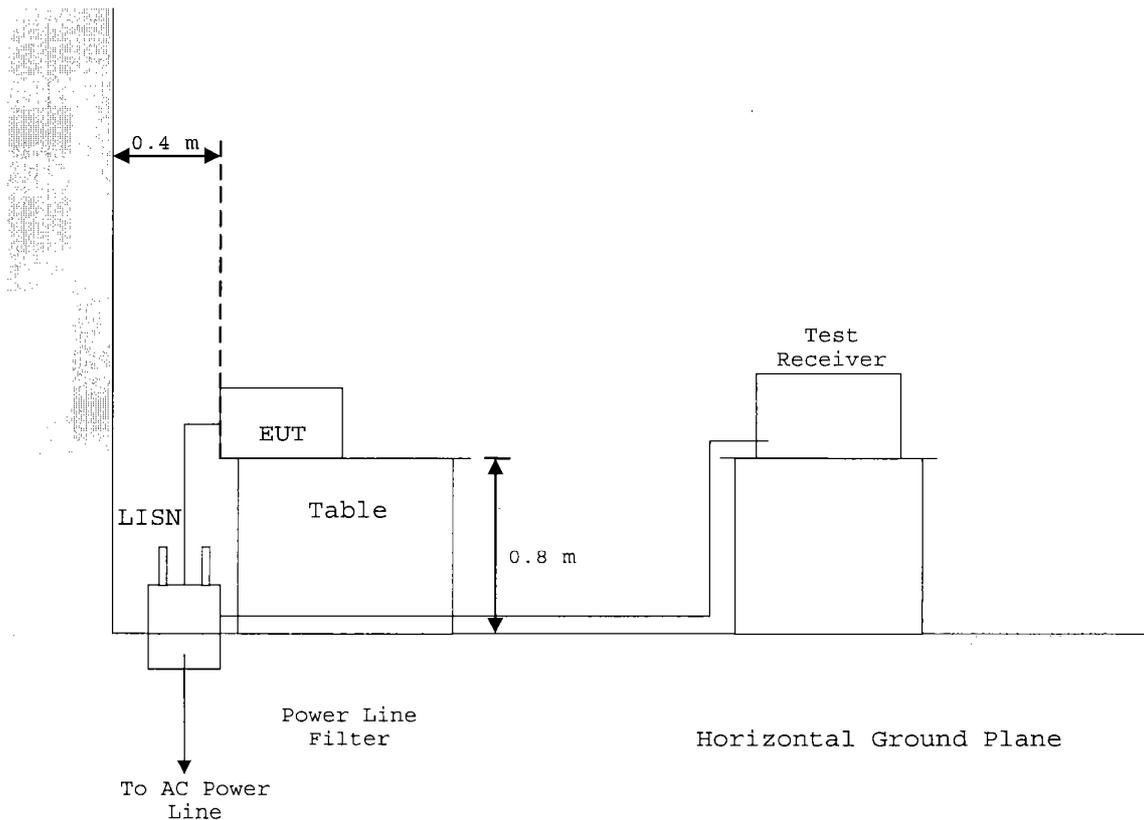
The preliminary conducted measurements were performed using the spectrum analyzer to observe the emission characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

Shielded Enclosure

- Side View -

Vertical
Ground
Plane



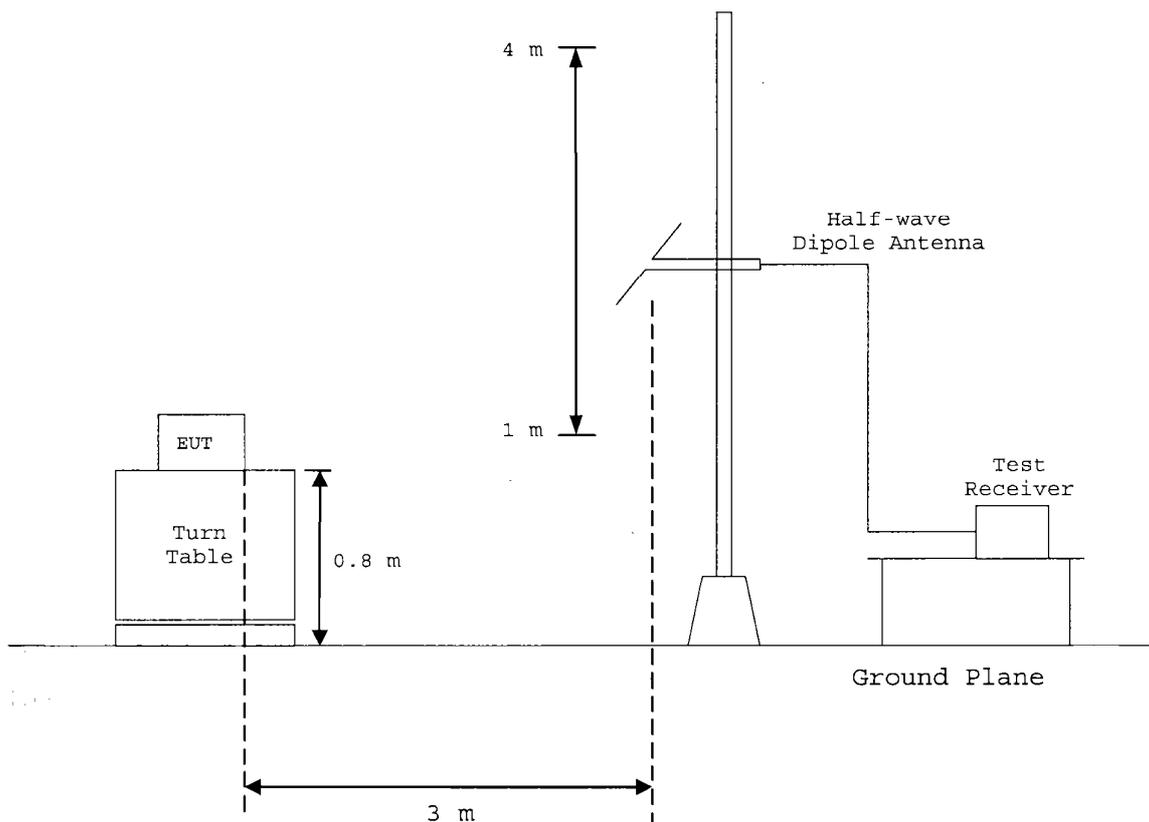
1.9.2 Radiated Emission (30 MHz - 1000 MHz) :

According to description of ANSI C63.4-1992 sec.13.1.4.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Anechoic Chamber

- Side View -



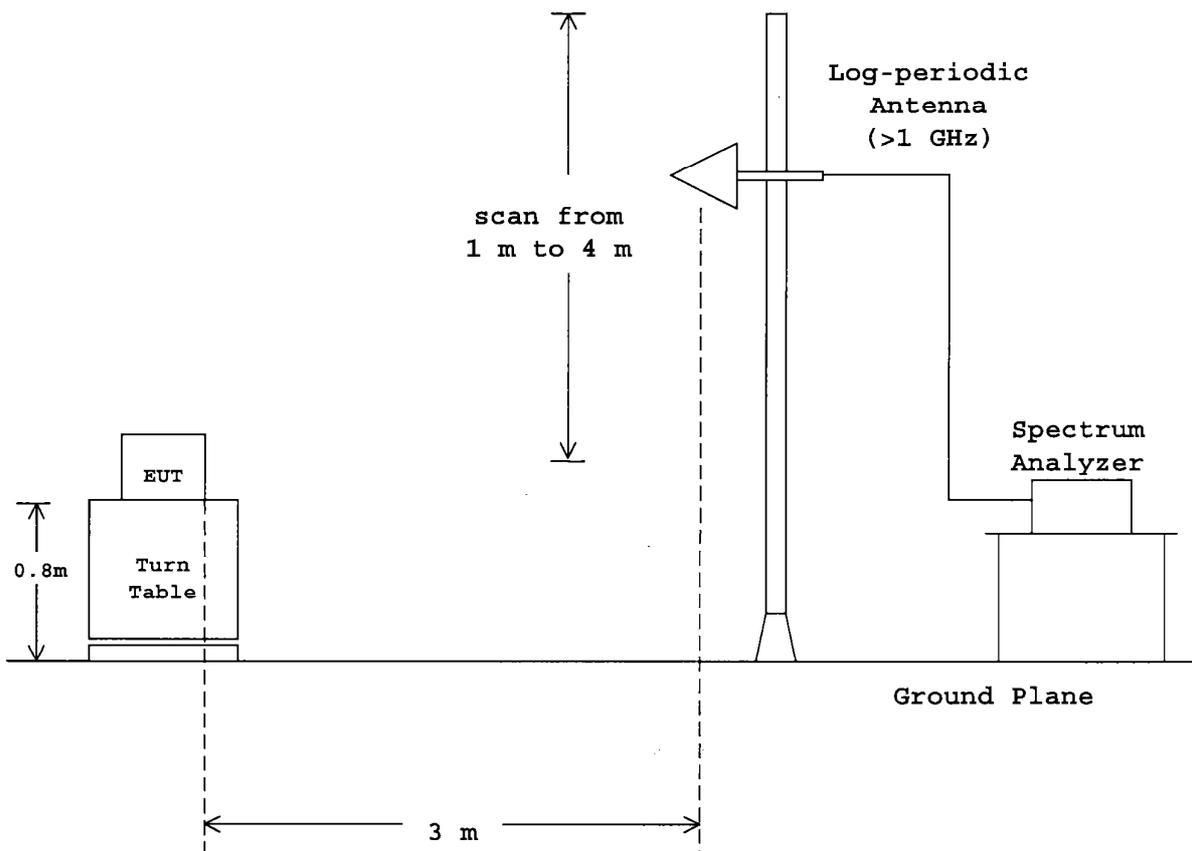
1.9.3 Radiated Emission (Above 1 GHz) :

According to description of ANSI C63.4-1992 sec.13.1.4.1, the preliminary radiated emissions measurements were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Anechoic Chamber

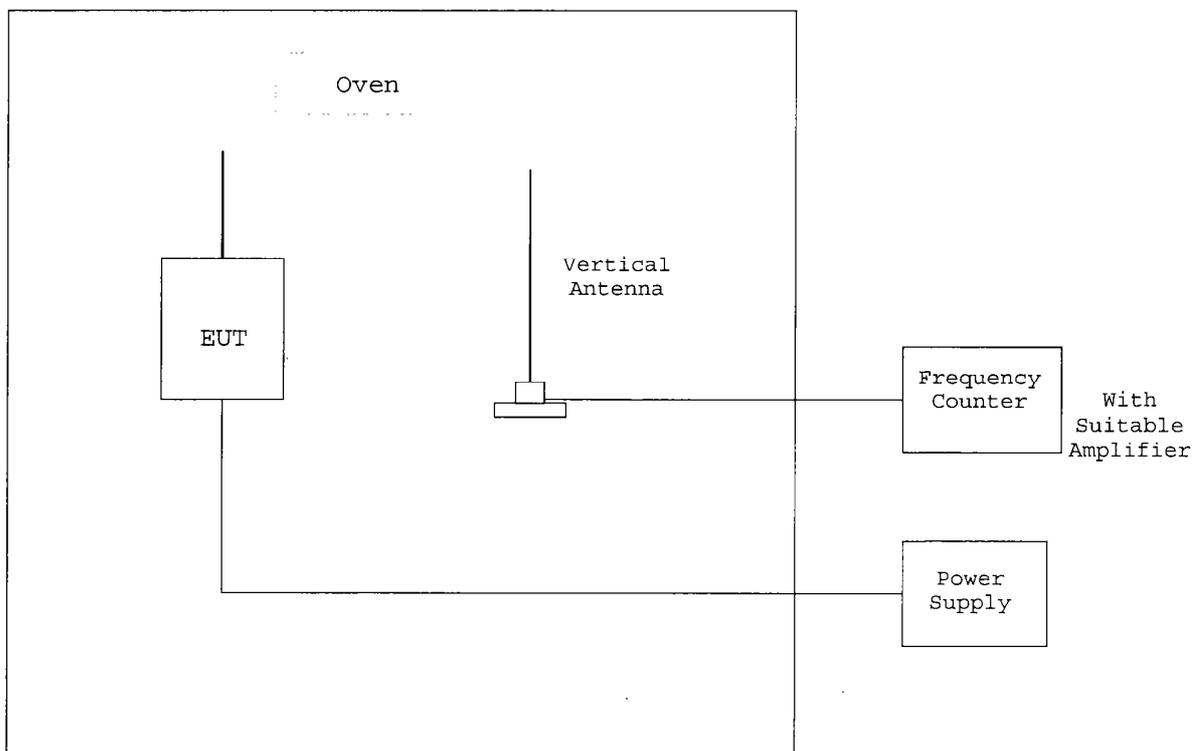
- Side View -



1.9.4 Frequency Stability :

According to description of ANSI C63.4-1992 sec.13.1.5 and sec.13.1.6, the frequency stability measurements were carried out. By using frequency counter with suitable RF amplifier, the carrier frequency of the transmitter under test was measured with a temperature variation of -20°C to $+50^{\circ}\text{C}$ at the normal supply voltage, and if required, with a variation in the primary voltage from 85 % to 115 % the rated supply voltage at the temperature of $+20^{\circ}\text{C}$.

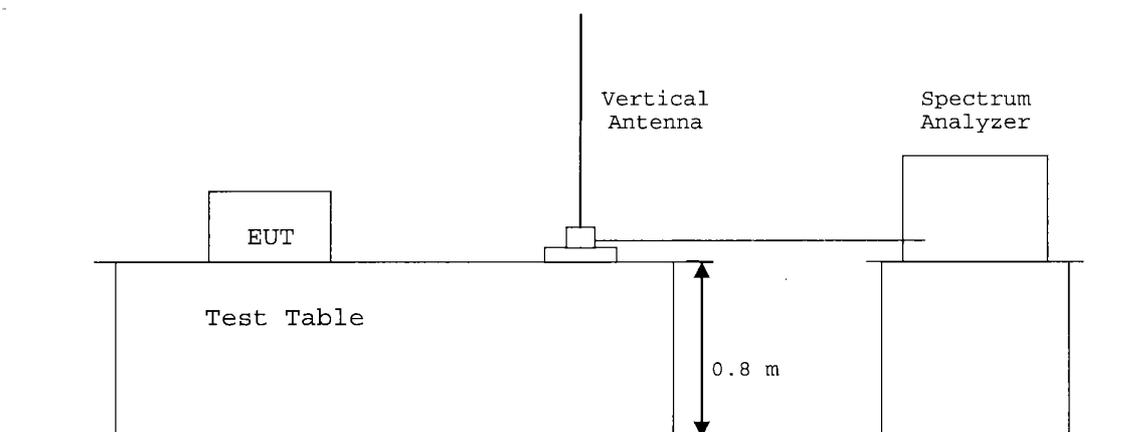
These measurements were carried out after allow sufficient time (approximately 1 hour) for the temperature of the chamber to stabilize.



1.9.5 Occupied Bandwidth :

According to description of ANSI C63.4-1992 sec.13.1.7, the occupied bandwidth measurements were carried out. By using a spectrum analyzer with a vertical antenna for picking up the signal, the measurements of the emission were made under the transmitting modes of the EUT.

The resolution bandwidth of spectrum analyzer was set to the value specified in sec.13.1.7.

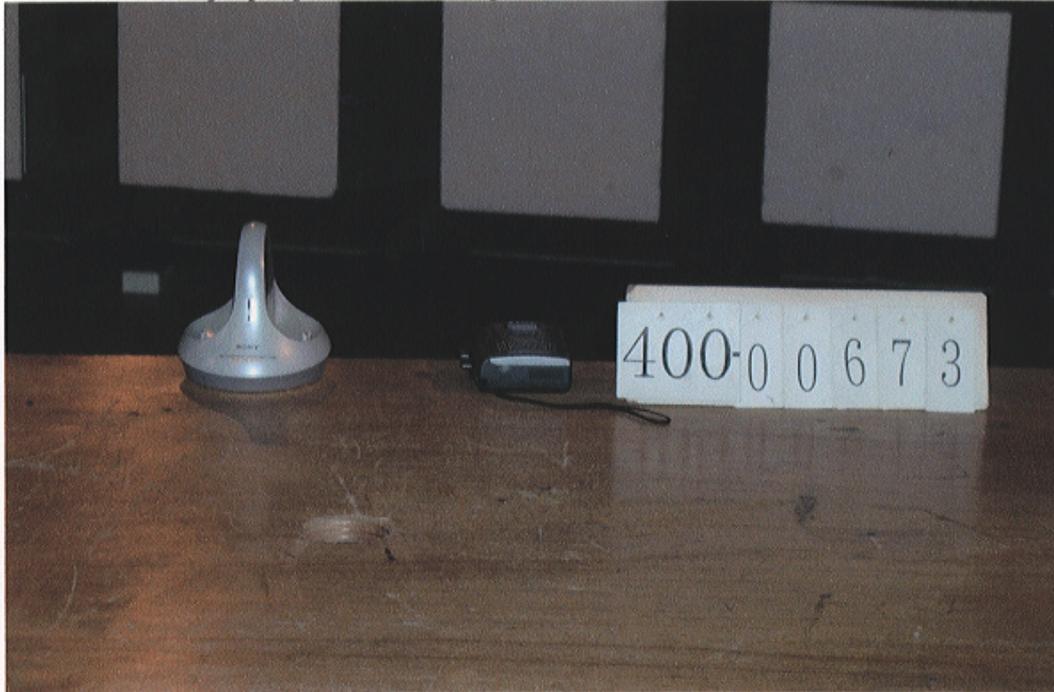


1.10 TEST ARRANGEMENT (PHOTOGRAPHS)**PHOTOGRAPHS OF EUT CONFIGURATION FOR AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT**

Photograph present configuration with maximum emission



PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT
Photograph present configuration with maximum emission



TEST DATA**2.1 AC Power Line Conducted Emission Measurement(0.45 MHz - 30 MHz)**

Date : March 14, 2001
 Temp.: 20 °C Humi.: 50 %

Frequency (MHz)	LISN Factor (dB)	Meter Reading (dBuV)				Limits (dBuV)		Emission Level (dBuV)		Margins (dB)	
		V-A		V-B		Q.P	AVE	Q.P	AVE	Q.P	AVE
0.45	0.2	23.6	-	31.2	-	48.0	-	31.4	-	16.6	-
0.80	0.2 <	10.0	-	19.0	-	48.0	-	19.2	-	28.8	-
1.00	0.2 <	10.0	-	11.6	-	48.0	-	11.8	-	36.2	-

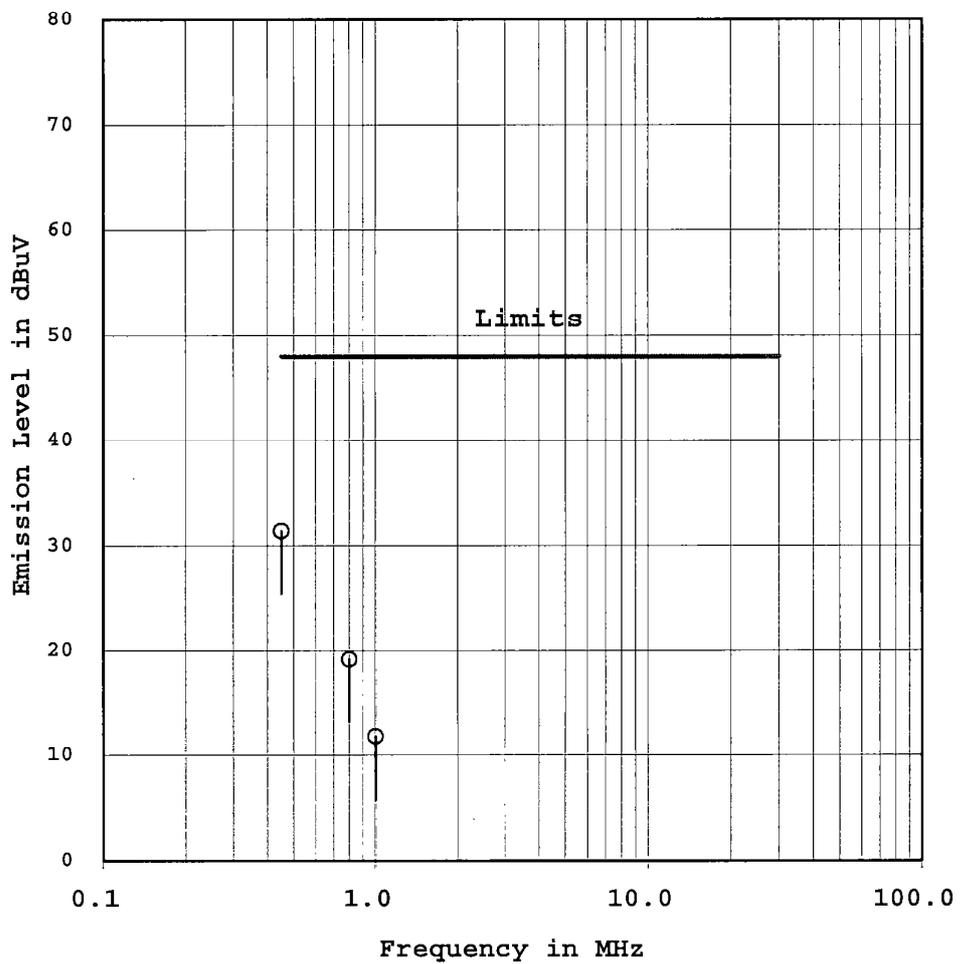
- Notes :
- 1) The spectrum was checked from 0.45 MHz to 30 MHz.
 - 2) The cable loss is included in the LISN factor.
 - 3) The symbol of "<"means "or less".
 - 4) The symbol of ">"means "or greater".
 - 5) The symbol of "-"means "Not applicable".
 - 6) V-A : One end & Ground V-B : The other end & Ground
 - 7) Q.P : Quasi-peak AVE : Average
 - 8) Asample calculation was made at 0.45 (MHz).
 $Lf + Mr = 0.2 + 31.2 = 31.4(\text{dBuV})$
 Lf = LISN Factor
 Mr = Meter Reading

Tested by : Shigeru Osawa
 Shigeru Osawa
 Testing Engineer

AC POWER LINE CONDUCTED EMISSION MEASUREMENT

Model No. : TMR-RF975R

Standard : CFR 47 FCC Rules Part 15	o Quasi-peak
Category : Class B	x Average





2.2 Radiated Emissions Measurement

Date : March 14, 2001
 Temp.: 23 °C Humi.: 49 %

Operating Frequency : 913.5 MHz
 Distance of Measurement : 3.0 meters

Frequency (MHz)	Correction Factor (dB/m)	Meter Reading		Limits (dBμV/m)	Field Strength at 3 m	
		Horiz. (dBμV)	Vert. (dBμV)		Horiz. (dBμV/m)	Vert. (dBμV/m)
Fundamental						
913.500	32.4	51.8	57.9	94.0	84.2	90.3
Harmonics & other Frequency components						
1827.000	30.7	< 5.0	7.8	54.0	< 35.7	38.5
2740.500	-10.8	31.4	30.5	54.0	20.6	19.7
3654.000	-7.1	46.8	48.3	54.0	39.7	41.2
4567.500	-4.1	< 30.0	< 30.0	54.0	< 25.9	< 25.9
5481.000	-1.7	< 30.0	< 30.0	54.0	< 28.3	< 28.3
6394.500	0.5	< 30.0	< 30.0	54.0	< 30.5	< 30.5
7308.000	2.4	< 30.0	< 30.0	54.0	< 32.4	< 32.4
8221.500	11.1	< 30.0	< 30.0	54.0	< 41.1	< 41.1
9135.000	12.7	< 30.0	< 30.0	54.0	< 42.7	< 42.7

Operating Frequency : 914.5 MHz
 Distance of Measurement : 3.0 meters

Frequency (MHz)	Correction Factor (dB/m)	Meter Reading		Limits (dBμV/m)	Field Strength at 3 m	
		Horiz. (dBμV)	Vert. (dBμV)		Horiz. (dBμV/m)	Vert. (dBμV/m)
Fundamental						
914.500	32.4	51.8	57.9	94.0	84.2	90.3
Harmonics & other Frequency components						
1829.000	30.8	< 5.0	8.1	54.0	< 35.8	38.9
2743.500	-10.8	30.5	31.3	54.0	19.7	20.5
3658.000	-7.1	46.6	47.6	54.0	39.5	40.5
4572.500	-4.1	< 30.0	< 30.0	54.0	< 25.9	< 25.9
5487.000	-1.7	< 30.0	< 30.0	54.0	< 28.3	< 28.3
6401.500	0.5	< 30.0	< 30.0	54.0	< 30.5	< 30.5
7316.000	2.4	< 30.0	< 30.0	54.0	< 32.4	< 32.4
8230.500	11.1	< 30.0	< 30.0	54.0	< 41.1	< 41.1
9145.000	12.8	< 30.0	< 30.0	54.0	< 42.8	< 42.8

Note: 1. The spectrum was checked from 25 MHz to 10th harmonics of the fundamental frequency component. All emissions not listed were found to be more than 20 dB below the limits.

2. The symbol of "<" means "or less".

3. The cable loss, antenna factor and preamplifier gain were included in the correction factor.

4. Sample calculation :

at 913.500 MHz

$$Cf + Mr = 32.4 + 57.9 = 90.3 \text{ dB}\mu\text{V/m}$$

Where,

Cf = Correction Factor

Mr = Meter Reading

5. Measuring Instrument Setting:

Below 1000 MHz

Detector function : CISPR Quasi-peak

IF Bandwidth : 120 kHz

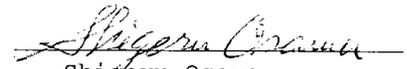
Above 1000 MHz

Detector function : Peak

IF Bandwidth : 1 MHz

Video Bandwidth : 10 Hz

Tested by :

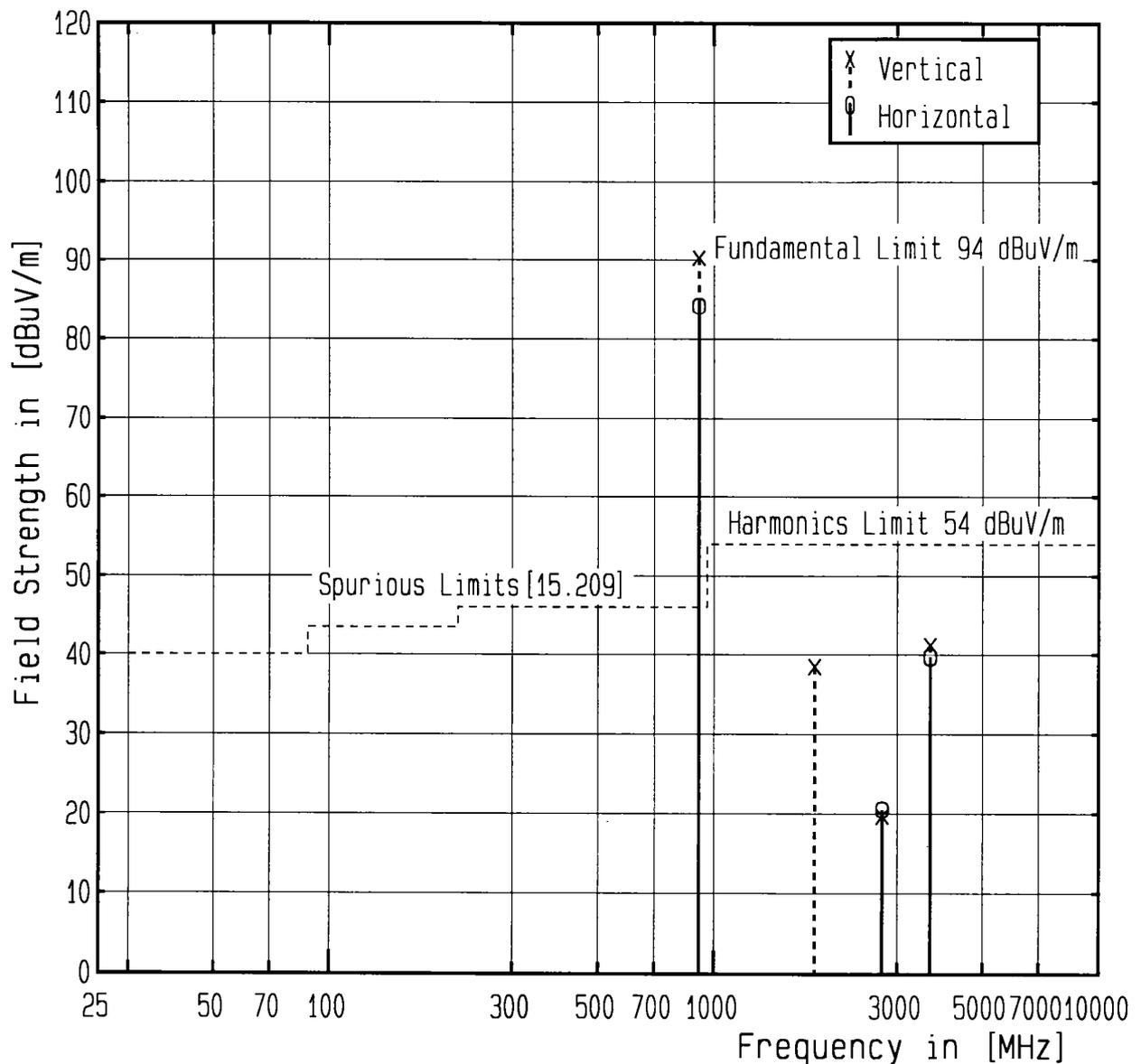


Shigeru Osawa

Testing Engineer

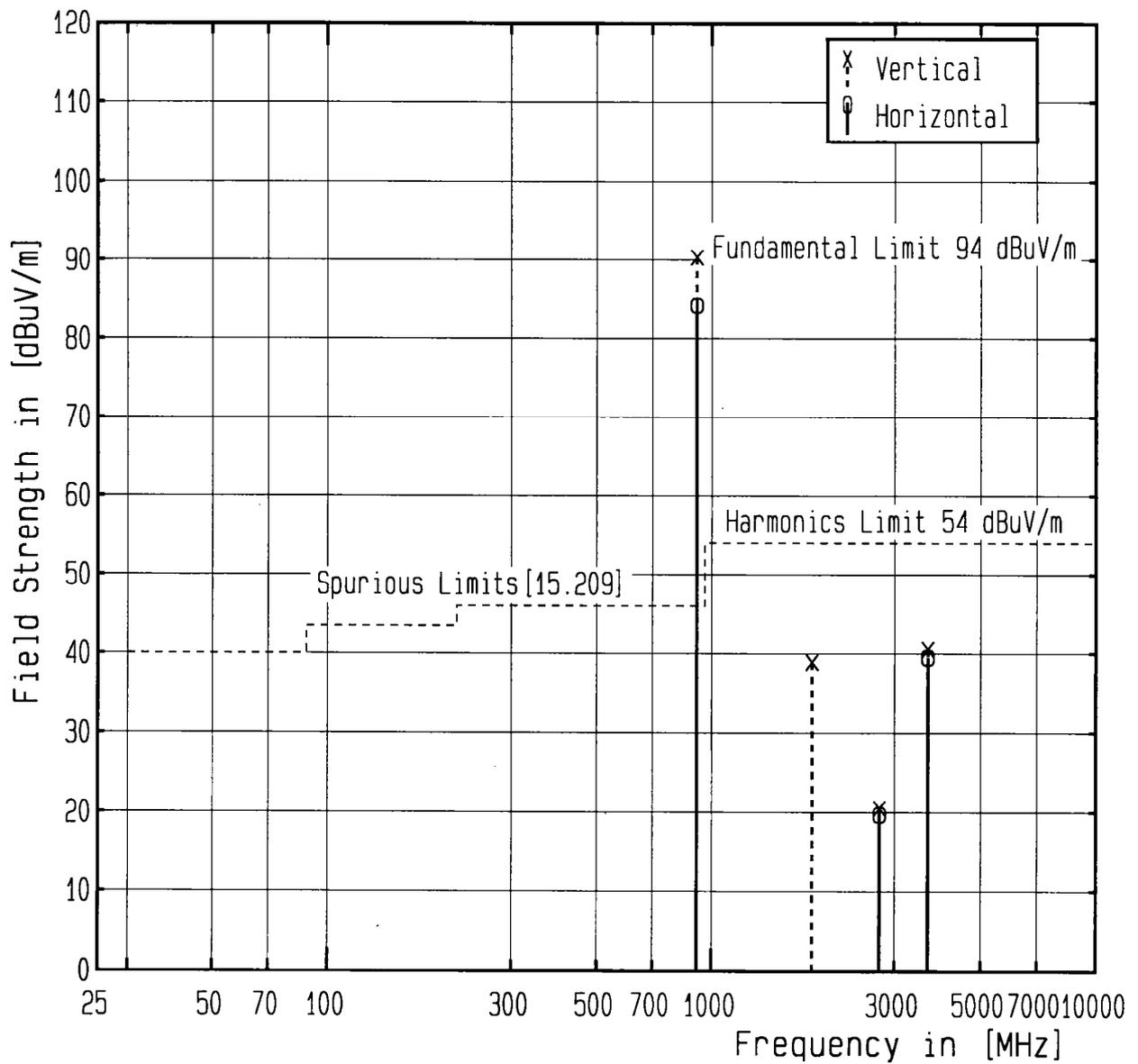
Transmitter Fundamental and Spurious Emissions

Model No. : TMR-RF975R
Operating Frequency : 913.5 MHz
Test Condition :



Transmitter Fundamental and Spurious Emissions

Model No. : TMR-RF975R
Operating Frequency : 914.5 MHz
Test Condition :





JQA Application No. :400-00673
Model No. :TMR-RF975R
Standard :CFR 47 FCC Rules Part 15

FCC ID :AK8TMRRF975R
Issue Date :March 21, 2001
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2.4 Occupied Bandwidth Measurement

Date : March 15, 2001
Temp.: 24°C Humi.: 39 %

Measurements Results :

Specified Limits : Emission radiated outside of the specified frequency bands(902 MHz - 928 MHz), except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Modulation : External Input Level(85 % Modulation): -5.7 dBV (Carrier 913.5 MHz)
-3.8 dBV (Carrier 914.5 MHz)
Frequency Deviation at 100 % Modulation : 75 kHz(Manufacturer Defined)

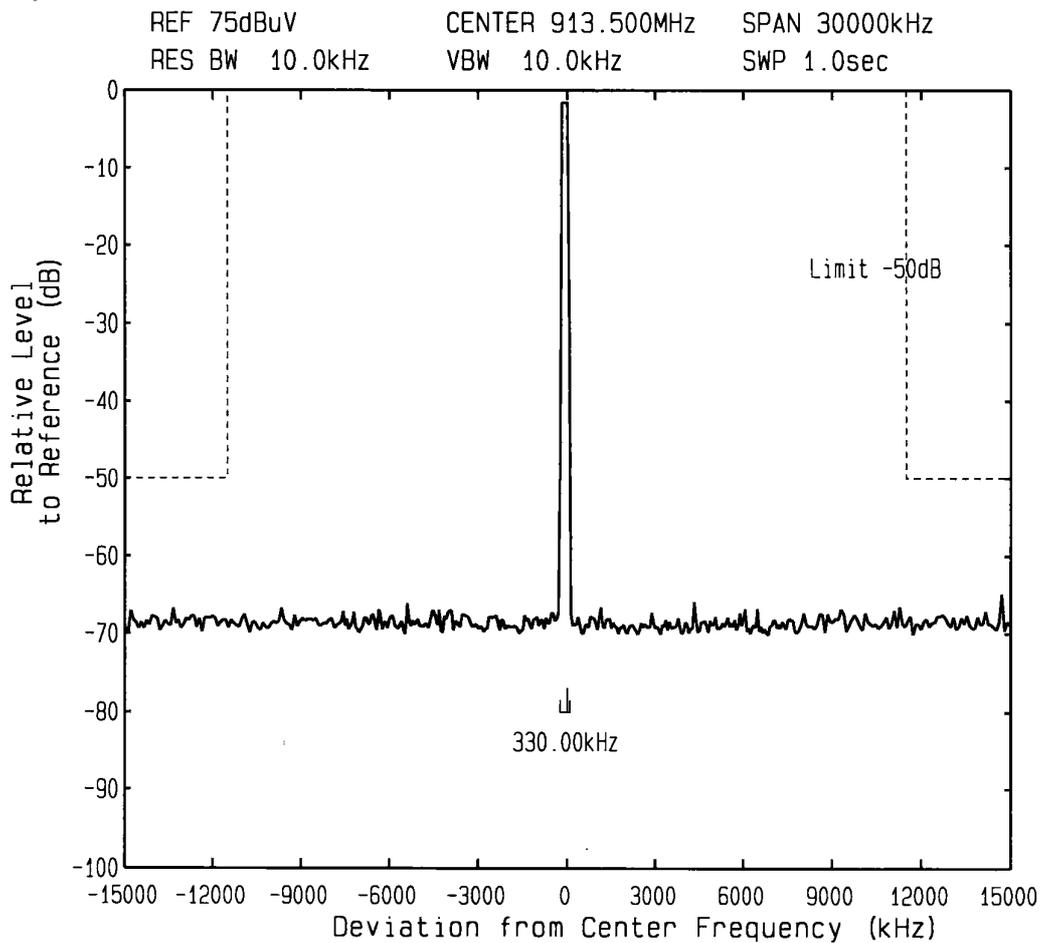
Refer to the attached graphs.

Tested by : Shigeru Osawa
Shigeru Osawa
Testing Engineer

Emission Limitation

FCC ID : AK8TMRRF975R
Model : TMR-RF975R

Mode of EUT : Transmit (913.5 MHz)
External Signal : 2.5 kHz, -5.7 dBV



Emission Limitation

FCC ID : AK8TMRRF975R
Model : TMR-RF975R

Mode of EUT : Transmit (914.5 MHz)
External Signal : 2.5 kHz, -3.8 dBV

