Designated by Ministry of international Trade and industry

KANSAI ELECTRONIC INDUSTRY DEVELOPMENT CENTER

HEAD OFFICE 6-8-7 NISHITENMA KITA-KU OSAKA 530-0047 JAPAN



IKOMA TESTING LABORATORY 12128 TAKAYAMA-CHO IKOMA-CITY NARA 630-0101 JAPAN

Corporate Juridical Person

TEST REPORT

Report No.A-024-99-C

Date: 5 August, 1999

This test report is to certify that the tested device properly complies with the requirements of:

FCC Rules and Regulations Part 15 Subpart B Unintentional Radiators.

All the tests necessary to show compliance to the requirements were performed and these results met the specifications of requirement. The results of this report should not be construed to imply compliance of equipment other than that, which was tested. Unless the laboratory permission, this report should not be copied in part.

4			
	Δn	plic	ant
	7 2 1/2	hit.	4111

Company Name

: ORION ELECTRIC CO., LTD.

Mailing Address

: 41-1 IEHISA-CHO, TAKEFU-SHI FUKUI 915-8555 JAPAN

2. Identification of Tested Device

Type of Device

: TV Interface Device

Kind of Equipment Authorization:

: DoC

: Certification

: Verification

FCC ID

: A7RM4C9D

Device Name

VIDEO CASSETTE RECORDER

Trade Name

MEMOREX

Model Number

MVR4040A

: July 1999

Serial Number

Date of Manufacture

: ID-112-1250 □: Prototype □: Pre-production □: Production

3. Test Items and Procedure

- ⊠: AC Power Line Conducted Emission Measurement
- □: Radiated Emission Measurement
- □: Output Signal Level Measurement
- □: Output Terminal Conducted Spurious Emission Measurement
- □: Transfer Switch Measurement

Above all tests were performed under: ANSI C63.4 - 1992

4. Date of Test

Receipt of Test Sample: 13 July, 1999

Test Completed on

: 28 July, 1999

Fumitoshi Nagaoka

Associate Director/ Ikoma Testing Laboratory

Table of Contents

0. N	LAP ACCREDITATION AND MEASUREMENT UNCERTAINTY	0
0.1.	NVLAP Accreditation	0
0.2.	Measurement Uncertainty	_
1. CE	AUTITICATION OF THE COMPLIANCE	
2. GE	ENERAL INFORMATION	ა
2 . 1.	1 Toduct Description	
2.2.	Description for Equipment Authorization	-
2.3.	TEST T ACHIEV	-
3. TE	OTED STSTEM	0
0. 1.	rest Woue	•
3.2.	Operation of EUT System	_
3.3.	Characterization and condition of EUT System	_
3.4.	DIUCKDIARIAM (IL FILLE SVRIAM	-
4. AC	TOWER CONDUCTED EMISSION MEASUREMENT	4.4
4.1.	1est Procedure	11
4.2.	Test Results	
4.3.	I HOLOGIADUS OF EUT System Configuration	
5. RA	DIGITED EMISSION MERASITRANIENT	
0.1.	rest rocedure	10
5.2 .	Test tresuits	4 ==
5.3.	I HOWER ADDS OF EACH System Contiguration	
6. OU'	TI OI SIGNAL LEVEL MEASUREMENT	0.4
0. 1.	rest rocedure	31
6.2.	rest resurts	30
6.3. 7. OU'	I HUURIADUS OF BUTT System Continuention	
7. 00. 7.1.	IT OF TEMMINAL CONDUCTED SOURIOUS EMISSION MEASIDEMENTS C	١٣
7.1. 7.2.	rest r rocedure	<u>، ۲</u>
	rest results	
8. TRA	I HOWERDINS OF ELLT System Configuration	_
O. 1101	TADE DIT DALL CIT MENON KENNENT.	
0.1.	rest r rocedure	ıo
0.4.	rest results	
0.0.	rnotographs of EUT System Configuration	_
о. шот	OF TEST EQUIPMENTS	1

0. NVLAP ACCREDITATION AND MEASUREMENT UNCERTAINTY

0.1. NVLAP Accreditation

KEC is accredited by the National Voluntary Accreditation Program for the specific scope of accreditation under Lab Code: 200207-0.

When a test report concerns with the NVLAP Accreditation test, the first page of the test report is sighed by NVLAP Approved Signatory together with the expression.

The report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

0.2. Measurement Uncertainty

The result of a measurement is only an approximation or estimate of the value of a specific quantity. And thus the measurand is complete only when a statement of uncertainty is given. KEC quotes Measurement Uncertainty (U)

of +/- 4.9 dB for Radiated Emissions

of +/- 2.2 dB for Conducted Emissions

of +/- 1.5 dB for Output Signal Level

of +/- 2.6 dB for Output Terminal Conducted Spurious Emission and

of +/- 2.2 dB for Transfer Switch Measurement.

1. CERTIFICATION OF THE COMPLIANCE

This test report is to certify that the tested device properly complies with the requirements of FCC Rules and Regulations Part 15 Subpart B Unintentional Radiators.

KEC evaluation criteria for compliance:

The Product complies, if

the measured results are below the specification limit by a margin more than or equal to

1/2 U (2.5 dB) for Radiated Emissions

U (2.2 dB) for Conducted Emissions

U (1.5 dB) for Output Signal Level

U (2.6 dB) for Output Terminal Conducted Spurious Emission and

U (2.2 dB) for Transfer Switch Measurement.

A-024-99-C Page 4 of 32

2. GENERAL INFORMATION

2.1. Product Description

The MEMOREX Model No.MVR4040A (referred to as the EUT in this report) is a VIDEO CASSETTE RECORDER containing RF modulator and Tuner.

(1) Specification

· RF Modulator Frequency : US CH. #3 Visual Carrier 61.25 MHz,

Aural Carrier 65.75 MHz

: US CH. #4 Visual Carrier 67.25 MHz.

Aural Carrier 71.75 MHz

Type of RF Output Connector : Type "F" Connector 75 Ω (Unbalanced)

(2) Provided terminal

· ANT Input Terminal

· ANT Output Terminal

A/V Input Terminals

· A/V Output Terminals

(3) Used Oscillating Frequencies

· 10 MHz : SYSTEM CONTROL / SERVO CONTROL

MICROCOMPUTER CLOCK

3.579545 MHz
 120~290 kHz
 CHROMINANCE SUBCARRIER OSCILLATOR
 SWITCHING FREQUENCY OF POWER SUPPLY

(4) Rated Power Supply : AC 120 V, 60Hz

2.2. Description for Equipment Authorization

(1) Type of device	: X TV Interface Device
(2) Reference Rule and Specification	: FCC Rule Part 15 ⊠ Section 15.107 (a) ⊠ Section 15.109 (a)(c) and Section 15.115 (a) ⊠ Section 15.115 (b)(1)(ii),(b)(2)(ii) and(c)(1)(ii)
(3) Kind of Equipment Authorization	: DoC
(4) Procedure of Application	: Original Equipment Modification
(5) Highest Frequency used in the Device	: 71.75 MHz
(6) Upper Frequency of Radiated Emission Meas	surement Range : 🛛 1000 MHz 🔲 2000 MHz 🔲 5000 MHz

2.3. Test Facility

·						
All tests described in this report were performed by:						
Name:	KANSAI ELECTRONIC INDUSTRY DEVELOPMENT CENTER (KEC) IKOMA TESTING LABORATORY					
	Open Area Test Site No.1 No.2 No.3 No.4 EMC M.C. Anechoic Chamber No.1 Shielded Room No.2 No.4 EMC M.C. Shielded Room					
Address:	12128, Takayama-cho Ikoma-city, Nara, 630-0101 Japan					
These test facilities have been filed with the FCC under the criteria of ANSI C63.4-1992. The Open Area Test Site No.4, EMC M.C. Anechoic Chamber No.1, Shielded Room No.4 and EMC M.C. Shielded Room have been accredited by the NVLAP (Lab. Code: 200207-0) based on ISO/IEC Guide 25.						
Also the laboratory Product Service (C (EN45001).	has been authorized by ITI (Interference Technology International, (UK), TUV BER) and TUV Rheinland (GER) based on their criteria for testing laboratory					

A-024-99-C Page 6 of 32

TESTED SYSTEM

3.1. Test Mode

In each measurement (excluding antenna transfer switch measurement), the compliance tests were performed under following five EUT operation modes.

In transfer switch measurement, it was done under three modes ($a \sim c$).

a. Playback mode

Playback the video tape that is recorded 1V peak-to-peak VITS signal.

b. Record mode (1V VITS Signal Input)

1V peak-to-peak VITS signal is supplied through the VIDEO IN 1(front side) terminal.

c. Record mode (5V VITS Signal Input)

5V peak-to-peak VITS signal is supplied through the VIDEO IN 1(front side) terminal.

d. Record mode (0 dBmV NTSC TV Signal Input)

NTSC TV U.S. channel 13 (consist of visual carrier and aural carrier) is supplied through the ANTENNA IN terminal.

[Note]

- 1) Visual Carrier (0 dBmV at 211.25 MHz) is modulated by 1V peak-to-peak VITS signal.
- 2) Aural Carrier (-10 dBmV at 215.75 MHz) is not modulated.
- e. Record mode (25 dBmV NTSC TV Signal Input)

NTSC TV U.S. channel 13 (consist of visual carrier and aural carrier) is supplied through the ANTENNA IN terminal.

[Note]

- 1) Visual Carrier (25 dBmV at 211.25 MHz) is modulated by 1V peak-to-peak VITS signal.
- 2) Aural Carrier (15 dBmV at 215.75 MHz) is not modulated.

3.2. Operation of EUT System

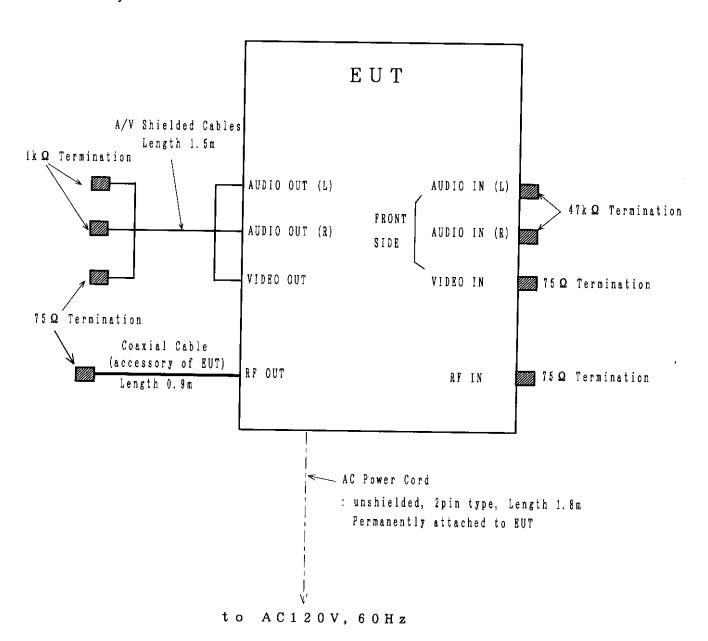
- 1) Playback mode Playback the video tape that is recorded 1V peak-to-peak VITS signal.
- 2) Record mode (1V/5V VITS Signal Input)
 1V/5V peak-to-peak VITS signal is supplied through the VIDEO IN terminal, if applicable.
- 3) Record mode (0 dBmV / 25 dBmV NTSC TV Signal Input)
 NTSC TV U.S. channel 13 (consist of visual carrier and aural carrier) is supplied through the ANTENNA IN terminal, if applicable.

3.3. Characterization and condition of EUT System

□ : normal , □ : not normal (that is
)

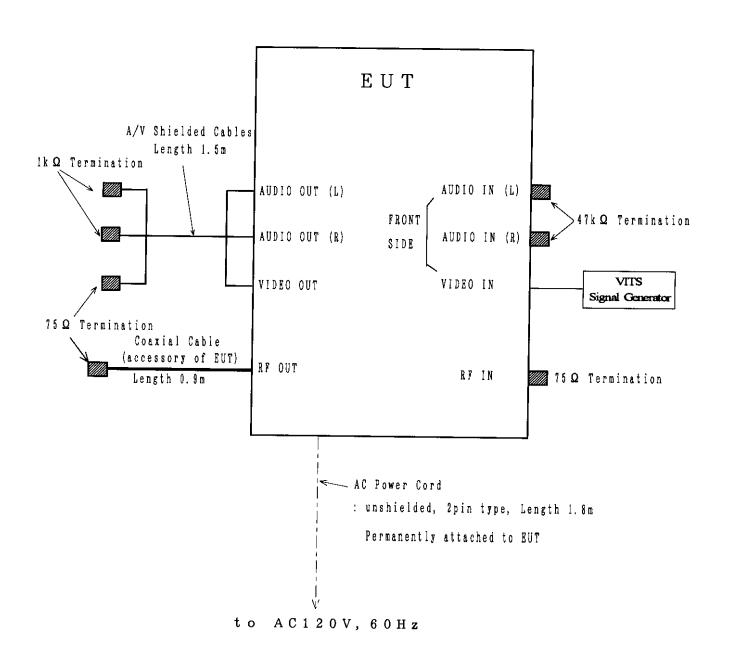
3.4. BlockDiagram of EUT System (for Conducted and Radiated Emission Measurements)

a. Playback mode



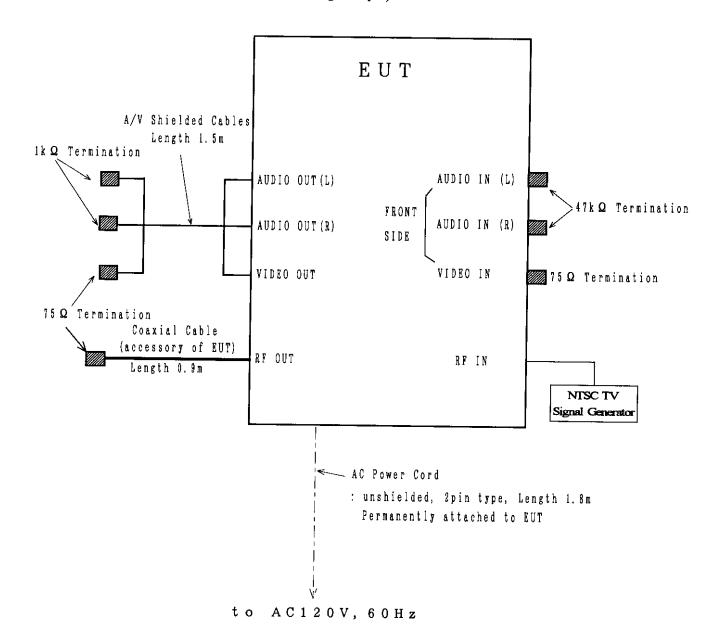
A-024-99-C Page 9 of 32

- Continued -
- b. Record mode (1V VITS Signal Input)
- c. Record mode (5V VITS Signal Input)



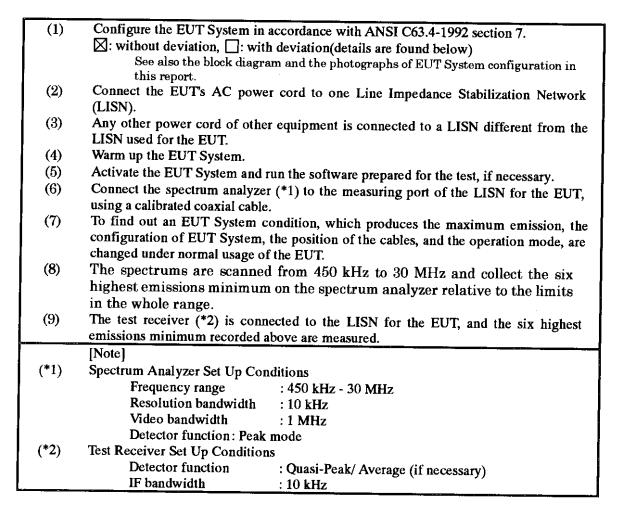
A-024-99-C Page 10 of 32

- Continued
 - d. Record mode (0 dBmV NTSC TV Signal Input)
 - e. Record mode (25 dBmV NTSC TV Signal Input)



4. AC POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Test Procedure



4.2. Test Results

Measured	LISN	Meter I	Reading	Maximum	Limits	Margin	
Frequency	Factor	Va	Vb	RF Voltage		for Limits	
(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	
0.488	0.3	35.0	34.5	35.3	48.0	12.7	
0.535	0.3	33.6	34.4	34.7	48.0	13.3	
0.567	0.3	34.5	31.4	34.8	48.0	13.2	
0.851	0.3	31.9	32.4	32.7	48.0	15.3	
1.142	0.3	30.4	31.0	31.3	48.0	16.7	
2.529	0.3	28.2	29.2	29.5	48.0	18.5	

[Calculation method]

Maximum RF Voltage (dBuV)

= Meter Reading (at maximum level of Va, Vb) + LISN Factor (dB)

[Note]

- (1) LISN Correction Factor includes the cable loss.
- (2) The emissions at channel #3 were nearly equal to channel #4.

 The spectrum was checked in each test mode and operation mode, and the data of the maximum EUT operation was reported.

[Environment]

Temperature 25°C Humidity 75%

[Tested Date / Tester] 28 July, 1999

Signature

Vanhilea Vatani

5. RADIATED EMISSION MEASUREMENT

5.1. Test Procedure

	· · · · · · · · · · · · · · · · · · ·	****
(1)	Configure the EUT System in a	ccordance with ANSI C63.4-1992 section 8.
	⊠: without deviation, ∐: with	deviation(details are found below)
	See also the block diagram and	the photographs of EUT System configuration in this
	report.	
(2)	If the EUT system is connecte	d to a public power network, all power cords for the
	EUT System are connected the	receptacle on the turntable.
(3)	Warm up the EUT System.	
(4)	Activate the EUT System and ru	in the prepared software for the test, if necessary.
(5)	To find out the emissions of th	e EUT System, preliminary radiated measurement are
	performed at a closer distance the	han that specified for final radiated measurement using
	the spectrum analyzer (*1) and t	he broad band antenna.
	In the frequency above 1 GHz, i	t is performed using the spectrum analyzer (*2) and the
	horn antenna.	, (= , = = = = = = = = = = = = = = = =
(6)	To find out an EUT System co	ondition, which produces the maximum emission, the
	configuration of EUT System, t	the position of the cables, and the operation mode, are
	changed under normal usage of	the EUT.
(7)	The spectrums are scanned from	om 30 MHz to the upper frequency of measurement
	range, and collect the six highest	t emissions minimum on the spectrum analyzer relative
	to the limits in the whole range.	, and the second se
(8)	In final compliance test, the s	ix highest emissions minimum, recorded above, are
	measured at the specified distant	nce using the broad band antenna or the tuned dipole
	antenna and the test receiver (*3	
	In the frequency above 1 GHz,	the measurements are performed by the horn antenna
	and the test recei	
		analyzer(*2) with pre-amplifier.
	[Note]	· · · · · · · · · · · · · · · · · · ·
(*1)	Spectrum Analyzer Set Up Cond	
	Frequency range	: 30 - 1000 MHz
	Resolution bandwidth	: 100 kHz
	Detector function	: Peak mode
(*2)	Spectrum Analyzer Set Up Cond	
	Frequency range	: 1 GHz - Upper frequency of measurement range
	Resolution bandwidth	: 1 MHz
	Video bandwidth	: 1 MHz
	Attenuator	: 10 dB
	Detector function	: Peak mode
(*3)	Test Receiver Set Up Conditions	
	Detector function	: Quasi-Peak
445.45	IF bandwidth	: 120 kHz
(*4)	Test Receiver Set Up Conditions	
	Detector function	: Average
	IF bandwidth	: 1 MHz

5.2. Test Results

Measurement Distance ⊠: 3m □: 10						m 🔲: 10m
Measured Frequency	Antenna Factor	Meter Reading		Maximum Field Strength	Limits	Margin for Limits
		Horizontal	Vertical			
(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
Test Channel	#3					
61.25	10.0	1.0	0.1	11.0	40.0	29.0
65.75	9.5	10.2	7.7	19.7	40.0	20.3
122.50	16.0	3.1	<0.0	19.1	43.5	24.4
245.00	21.7	<0.0	<0.0	<21.7	46.0	>24.3
Test Channel	#4					
67.25	9.3	11.1	7.8	20.4	40.0	19.6
71.75	8.9	12.6	7.3	21.5	40.0	18.5
134.50	17.2	2.2	<0.0	19.4	43.5	24.1
201.75	20.7	<0.0	<0.0	<20.7	43.5	>22.8
Other emission	ns					
71.61	8.9	16.1	13.0	25.0	40.0	15.0
114.55	15.0	15.7	12.9	30.7	43.5	12.8
143.18	17.9	11.0	9.9	28.9	43.5	14.6
171.81	19.3	6.1	8.2	27.5	43.5	16.0
200.45	20.7	9.2	13.3	34.0	43.5	9.5
214.83	21.0	6.9	7.7	28.7	43.5	14.8
229.09	21.3	6.6	3.6	27.9	46.0	18.1

[Note]

- (1) Antenna Factor includes the cable loss.
- (2) * mark in Measured Frequency : Measured with the tuned dipole antenna. : Measured with the broadband antenna.
- (3) Turntable Angle: defined as 0° when EUT system on the Turn Table faces to the receiving antenna, and the Angle increases when turned clockwise (in case of EMC M. C. Anechoic Chamber No.1: clockwise should be read as counter clockwise).
- (4) The spectrum was checked in each test mode and operation mode, and the data of the maximum EUT operation was reported.

[Calculation method]

Maximum Field Strength (dB \(\mu \nb V/m \)

= Meter Reading (at maximum level of Horizontal or Vertical) $(dB \mu V)$ + Antenna Factor (dB)

[Environment]

Temperature: 26°C

Humidity: 62%

[Tested Date/ Tester]

26 July 1999

Signature

Yoshiko Kotani

6. OUTPUT SIGNAL LEVEL MEASUREMENT

6.1. Test Procedure

(1)		Configurate the EUT System in accordance with ANSI C63.4-1992 section 12.2. without deviation, : with deviation(details are found below)						
	See also the block diagram and the photographs of EUT System configuration							
	in this report.	rographs of Lot System configuration						
(2)	Unused RF input/output terminals are t	erminated in the proper impedance.						
(3)	Activate the EUT system.	1 1 1						
(4)	Set the spectrum analyzer as follows.							
	Frequency Span	: 1 MHz						
	Resolution bandwidth	: 100 kHz						
	Video bandwidth	: 3 MHz						
	Detector function	: Peak mode						
(5)	The RF output terminal is connected to the spectrum analyzer through the matching							
	transformer with a calibrated 50 Ω coaxial cable.							
(6)	Then, the RF output signal level is measured under the EUT condition produced the maximum signal level.							

6.2. Test Results

Emission Frequency [MHz]	Correction Factor [dB]	Meter Reading [dBμV/50Ω]	Maximum Signal Level [dBμV/75Ω]	Limits [dBμV/75Ω]	
Test Channel #3					
61.25	6.5	58.8	65.3	69.5	
65.75	6.5	43.2	49.7	56.5	
Test Channel #4					
67.25	6.5	58.6	65.1	69.5	
71.75	6.5	42.5	49.0	56.5	

[Note]

- (1) The correction factor consist of the voltage loss of the impedance matching transformer and the coaxial cable used for the test.
- (2) The spectrum was checked in each test mode and operation mode, and the data of the maximum EUT operation was reported.
- (3) The spectrum was checked in each test mode and operation mode, and the data of the maximum EUT operation was reported.

[Calculation method]

Maximum Signal Level (dB μ V/75 Ω)

= Meter Reading (dB μ V/50 Ω) + Correction Factor (dB)

[Environment]

Temperature: 25°C

Humidity: 75%

[Summary of Test Results]

Minimum margin was 4.2 dB at 61.25 MHz, test channel #3

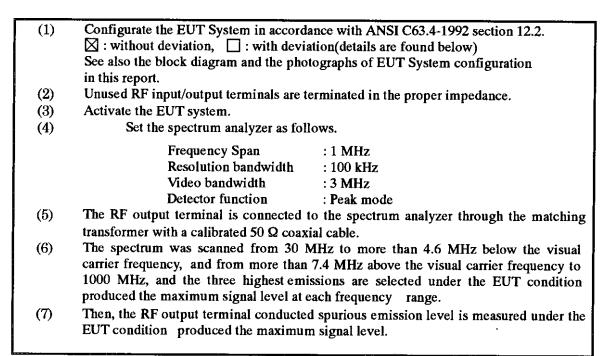
[Tested Date/ Tester] 28 July 1999

Signature

Yoshiko Kotani

7. OUTPUT TERMINAL CONDUCTED SOURIOUS EMISSION MEASUREMENT

7.1. Test Procedure



7.2. Test Results

Emission Frequency	Correction Factor	Meter Reading	Maximum Signal Level	Limits
[MHz]	[dB]	[dBμV/50Ω]	[dBμV/75Ω]	[dBμV/75Ω]
Test Channel #3				
47.75	6.5	5.1	11.6	39.5
56.27	6.5	10.0	16.5	39.5
56.65	6.5	33.3	39.8	39.5
74.75	6.5	6.3	12.8	39.5
122.50	6.5	11.3	17.8	39.5
183.75	6.5	6.4	12.9	39.5
** 56.65	6.5	7.4	13.9	39.5
Test Channel #4				
53.75	6.5	6.7	13.2	39.5
62.28	6.5	10.1	16.6	39.5
62.65	6.5	33.8	40.3	39.5
80.75	6.5	6.3	12.8	39.5
134.49	6.5	5.1	11.6	39.5
201.75	6.5	5.4	11.9	39.5
** 62.65	6.5	8.3	14.8	39.5

[Note]

- (1) **: To except the effect of lower sideband of sound sub-carrier frequency component, if set the resolution bandwidth of spectrum analyzer to 30 kHz, these interference become to this value.
- (2) The correction factor consist of the voltage loss of the impedance matching transformer and the coaxial cable used for the test. And the meter readings descrived above are corrected by the gain of pre-amplifier.
- (3) The spectrum was checked in each test mode and operation mode, and the data of the maximum EUT operation was reported.
- (4) The spectrum was checked in each test mode and operation mode, and the data of the maximum EUT operation was reported.

[Calculation method]

Maximum Signal Level ($dB \mu V/75\Omega$)

= Meter Reading (dB μ V/50 Ω) + Correction Factor (dB)

Environment

Temperature: 25°C

Humidity: 75%

[Summary of Test Results]

Minimum margin was 21.7 dB at 122.50 MHz, test channel #3

[Tested Date/ Tester] 28 July 1999

Signature

Y. Kolam Yoshiko Kotani

7.3. Photographs of EUT System Configuration

The tested device configuration is the same as the output signal level measurement. (See 6.3 Photographs of EUT System Configuration.)

A-024-99-C Page 28 of 32

8. TRANSFER SWITCH MEASUREMENT

8.1. Test Procedure

(1) Configurate the EUT System in accordance with ANSI C63.4-1992 section 12.2. ☑: without deviation, ☐: with deviation(details are found below)

See also the block diagram and the photographs of EUT System configuration

See also the block diagram and the photographs of EUT System configuration In this report.

- (2) Unused RF input/output terminals are terminated in the proper impedance.
- (3) Activate the EUT system.
- (4) Set the spectrum analyzer as follows.

Frequency Span : 1 MHz
Resolution bandwidth : 100 kHz
Video bandwidth : 3 MHz
Detector function : Peak mode

(5) The antenna input terminal is connected to the input of pre-amplifier through the matching transformer with a calibrated 50 Ω coaxial cable. And the output of pre-amplifier is connected to the spectrum analyzer.

(6) Then, the signal level on the antenna input terminal is measured under the EUT condition produced the maximum signal level.

A-024-99-C Page 29 of 32

8.2. Test Results

Emission Frequency	Correction Factor	Meter Reading	Maximum Signal Level	Limits	
[MHz]	[dB]	[dBμV/50 Ω]	[dBμV/75Ω]	[dBμV/75Ω]	
Test Channel #3 61.25	2.0	2.7	4.7	9.5	
Test Channel #4 67.25	2.1	5.1	7.2	9.5	

[Note]

- (1) The correction factor consist of the voltage loss of the impedance matching transformer and the coaxial cable used for the test. And the meter readings descrived above are corrected by the gain of pre-amplifier.
- (2) The spectrum was checked in each test mode and operation mode, and the data of the maximum EUT operation was reported.

[Calculation method]

Maximum Signal Level (dB μ V/75 Ω)

= Meter Reading (dB μ V/50 Ω) + Correction Factor (dB)

[Environment]

Temperature: 25°C

Humidity: 75%

[Summary of Test Results]

Minimum margin was 2.3 dB at 67.25 MHz, test channel #4

[Tested Date/ Tester]

28 July 1999

Signature

A-024-99-C Page 31 of 32

9. LIST OF TEST EQUIPMENTS

Equipment	Manufacturer	Model No.	Speecifications	KEC Control	Test Item	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESHS10	Frequency Range 9kHz-30MHz	No. FS-67	(*) 1	1998/10	1999/10
		ESVS10	Frequency Range 20MHz-1GHz	FS-60	2	1999/6	2000/6
Spectrum Analyzer	Rohde & Schwarz	FSA	Frequency Range 100 Hz-1.8 GHz	SA-35	2	1999/7	2000/7
	Hewlett Packard	8568B	Frequency Range 100 Hz-1.5 GHz	FS-46-3	1,3,4,5	1999/6	2000/6
Pre-amplifier	Anritsu	MH648A	Frequency Range 100 Hz-1.2 GHz	AM-28	4,5	1999/6	2000/6
Biconical Antenna	Schwarzbeck	BBA9106	Frequency Range 30MHz-300MHz	AN-219	2	1999/2	2000/2
Log- Periodic Antenna	Schwarzbeck	UHALP9108 A	Frequency Range 300MHz-1GHz	AN-218	2	1999/2	2000/2
Tuned Dipole Antenna	Kyoritsu	KBA-511AS	Frequency Range 25MHz-500MHz	AN-132	N/A	1999/3	2000/3
Antenna		KBA-611S	Frequency Range 500MHz-1GHz	AN-115	N/A	1999/3	2000/3
LISN	Kyoritsu	KNW-407	Frequency Range 150kHz-30MHz	FL-107	1	1999/4	2000/4
Impeadance Transformer	NMC	MB-009	Frequency Range 10MHz-2GHz 50 Ω: 75 Ω	AX-27	3,4	1998/11	1999/11
Matching Transfomer	Anritsu	MG614A	Frequency Range 10MHz-1.2GHz 50 Ω: 75 Ω	AX-28-4	5	1998/12	1999/12

A-024-99-C Page 32 of 32

- Continued -

Instrument	Manufacturer	Model No.	Specifications	KEC Control No.	Test Item (*)	Last Cal.	Next Cal.
Video Part Signal Generator	Anritsu	MG3601A	Frequency Range 100kHz - 1.04GHz	SG-41	1,2,3,4	1998/9	1999/9
Audio Part Signal Generator	Anritsu	MG3601A	Frequency Range 100kHz - 1.04GHz	SG-48	1,2,3,4	1998/9	1999/9
Multiburst Signal Generator	Anritsu	MG318A	According to ANSI C63.4(1992) Section 12 Fig.15	MG-35	1,2,3,4,5	1998/12	1999/12
Matching Trans Former	Anritsu	MG614A	Frequency Range 10MHz - 1.2GHz	AX-28-2	1,2,3,4	1998/11	1999/11
Four-Port Junction Pad	Anritsu	MP659A	Frequency Range 40MHz - 1GHz	AX-16	1,2,3,4	1998/11	1999/11

		_
IN	ote	1

Test Item (*):

1: Conducted Emission Measurement

2: Radiated Emission Measurement

3: Output Signal level Measurement

4: Output Terminal Conducted Spurious Measurement

5: Transfer Switch Measurement

N/A: Not Applicable

The overall program of calibration and verification of equipment is designed and operated so as to ensure that measurements made by KEC are traceable to national standards of measurement or equivalent abroad.