EMI TEST REPORT

Test Report No. : 24LE0253-YW-1

Applicant :	**Orion Electric Co., Ltd.**
Type of equipment :	**DVD/VCR**
Model number :	**PV-D744S-A**
Test standard :	**FCC Part 15 Subpart B** **ICES-003 Issue No.4 Class B**
Test result :	**Complied**

1. This test report shall not be reproduced except in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this test report are traceable to the national or international standards.
5. This test report does not constitute an endorsement by NIST/NVLAP or U.S. Government.

Date of test : July 26 to 28, 2004

Tested by:

Tsubasa Takayama
EMC Service

Seigo Kakehi
EMC Service

Yuichi Kaneyama
EMC Service

Approved by:

Hiroya Tabata
Leader of EMC Service

UL Apex Co., Ltd.
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108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN
Telephone: +81 596 39 1485
Facsimile: +81 596 39 0232

Contents

Section 1 : Client information

Company name	:	Orion Electric Co., Ltd.
Address	:	41-1 Iehisa-cho, Takefu-shi, Fukui-ken, 915-8555 JAPAN
Telephone number	:	+81 778 23 0019
Facsimile number	:	+81 778 23 7799
Contact person	:	Hiroshi Tsujimoto

Section 2 : Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of equipment	:	DVD/VCR
Brand Name	:	Panasonic
Model number	:	PV-D744S-A
FCC ID	:	A7RM2D8D
Rating	:	AC 120 V / 60 Hz
Manufacturer	:	1. World Electric (Thailand) Ltd. 236 Moo 2 Nongchark, Banbung, Chonburi 20170, Thailand 2. Korat Denki Ltd. 149 Moo 10 Tambol Chokchai, Amphur Chokchai, Nakhonratchasima 30190, Thailand 228 Moo 3 Tambol Nongbuasala, Amphur Muang, Nakhonratchasima 30000, Thailand 3. Orion America, Inc. Hwy 41 North, Orion Place, Princeton, Indiana 47670, U.S.A
Receipt Date of Sample	:	July 23, 2004
Condition of EUT	:	Production Prototype (Not for Sale: This sample is equivalent to mass-produced items.)

2.2 Product description

Model: PV-D744S-A (referred to as the EUT in this report) is a DVD/VCR.
The EUT specifications is as follows.

Tuner type	:	Quartz PLL frequency synthesized
I / F	:	45.75 MHz (Picture), 41.25 MHz (Sound)
Receiving channel	:	VHF 2 – 13 ch / UHF 14 – 69 ch / CATV 1 – 125 ch
Antenna input	:	75 ohm
Video signal	:	NTSC color
Power source	:	AC 120 V / 60 Hz, 18W
I / O terminal (Video)	:	RCA in 1Vp-p 75 ohm, RCA out 1 Vp-p 75 ohm
I / O terminal (Audio)	:	RCA in –8 dB 47 k ohm, RCA out –8 dB 1 k ohm

2.3 Similar apparatus

There is no similar apparatus.

Section 3 : Test specification, procedures and results

3.1 Test specification

Test specification: FCC Part 15 Subpart B
Title : FCC 47 CFR Part 15 Radio Frequency Device
Subpart B Unintentional Radiators

Test Specification : ICES-003 Issue No. 4
Title : Spectrum Management
Interference-Causing Equipment Standard
Digital Apparatus
*ICES-003 (Issue No. 4) is based on FCC Part 15.

3.2 Procedures & results

Item	Test procedure	Limits	Worst margin	Result
Conducted emission	ANSI C63.4:2003 IEEE 213:1987	CISPR 22	19.5 dB (0.1815 MHz, L1 AV input 1 + Rec. 5Vp-p / 0.1714 MHz, L1, AV input 2 + Rec. 1Vp-p)	Complied
Radiated emission	ANSI C63.4:2003 IEEE 187:1990	30–88 MH: 100 uV/m 88–216 MHz: 150 uV/m 216–960 MHz: 200 uV/m above 960 MHz: 500 uV/m	6.2 dB (202.50 MHz, Horizontal, TV reception + Rec. 25dBmV)	Complied
Antenna terminal voltage	ANSI C63.4:2003	2 nW (at 75 ohm)	29.9 dB (1237.84200 MHz, TV tuning)	Complied
RF output level	ANSI C63.4:2003	Video signal: 3000 uV Aural signal: 671 uV	6.0 dB (61.25 MHz, DVD play)	Complied
Spurious emission		94.8 uV	19.1 dB (841.7100 MHz, 4ch, AV input 2 + Rec. 5Vp-p)	Complied
Transfer switch	ANSI C63.4:2003	9.5 dB	6.1 dB (367.5000 MHz, 3ch, AV input 2 + Rec. 1Vp-p)	Complied
Picture sensitivity	ANSI C63.4:2003	8 dB	5.8 dB	Complied
Noise figure	FCC/OET MP:2:1986	14 dB	6.2 dB (55.25 MHz, 2ch)	Complied

For ICES-003, only the tests, which relate to the digital device of conducted emission and radiated emission, were performed.

3.3 Additions or deviations to standard

No addition, deviation or exclusion has been made from standards.

3.4 Confirmation

UL Apex Co., Ltd. hereby confirms that E.U.T., in the configuration tests, complies with the specifications FCC Part15 Subpart B and ICES-003 Issue No. 4.

3.5 Uncertainty

Conducted emission (150 kHz – 30 MHz)

The measurement uncertainty (with a 95% confidence level) for this test was ± 1.74 dB.
The data listed in this test report has enough margin, more than site margin.

Radiated emission

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ±4.4 dB.
The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ±4.8 dB.
The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ±5.8 dB.
The data listed in this test report has enough margin, more than site margin.

Antenna terminal voltage

The measurement uncertainty (with a 95% confidence level) for this test was ± 3.48 dB.
The data listed in this test report has enough margin, more than site margin.

RF output level test / spurious emission test

The measurement uncertainty (with a 95% confidence level) for this test was ± 3.48 dB.
The data listed in this test report has enough margin, more than site margin.

Antenna transfer switch

The measurement uncertainty (with a 95% confidence level) for this test was ± 3.48 dB.
The data listed in this test report has enough margin, more than site margin.

Picture sensitivity test

The measurement uncertainty (with a 95% confidence level) for this test was ± 1.0 dB.
The data listed in this test report has enough margin, more than site margin.

Noise Figure Test

The measurement uncertainty (with a 95% confidence level) for this test was ± 1.2 dB.
The data listed in this test report has enough margin, more than site margin.

3.7 Test location

UL Apex Co., Ltd. Yokowa EMC Lab. No.2, No.7 shielded room, No.1 and No.2 open site
108 Yokowa-cho, Ise-shi, Mie-ken, 516-1106 JAPAN
TEL : +81 596 39 1485
FAX : +81 596 39 0232

No.1 open site
This site has been fully described in a report submitted to FCC office, and listed on September 25, 2003.
(Registration number: 90412)

No.2 open site
This site has been fully described in a report submitted to FCC office, and listed on August 29, 2003.
(Registration number: 90411)

*NVLAP Lab. Code : 200109-0

3.8 Test setup, Data of EMI & Test instruments

Please refer to Appendix 1 to 3.

Section 4 : Operation of E.U.T. during tests

4.1 Operating modes

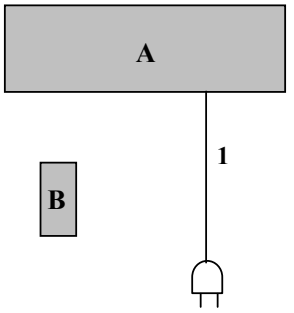
The EUT exercise program used during testing was designed exercise the various system components in a manner similar to typical use.

The sequence in used : * TV reception + Rec. mode (0 dBmV input / 25 dBmV input)
* AV input 1+ Rec. / AV input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)
* VCR play mode
* DVD play mode

Operation : The EUT was tested at above operation mode.

Justification : The system was configured in typical fashion (as a customer would normally use it) for testing.

4.2 Configuration and peripherals



* Cabling was taken into consideration and test data was taken under worse case conditions.

Description of EUT and support equipment

Sign	Item	Model number	Serial number	Manufacturer	FCC ID	Remark
A	DVD/VCR	PV-D744S-A	–	Orion Electric Co., Ltd.	A7RM2D8D	EUT
B	Remote Controller	–	–	Orion Electric Co., Ltd.	-	EUT

List of cable used

No.	Item	Length (m)	Shield	Backshell material
1	AC Power Cable	1.6	Unshielded	Polyvinyl chloride

Section 5 : Conducted emission

5.1 Operation environment

The test was carried out in a shielded room the size of 4.5 x 3.6 x 2.7m.

Date : July 27, 2004
Temperature : See data
Humidity : See data

5.2 Test configuration

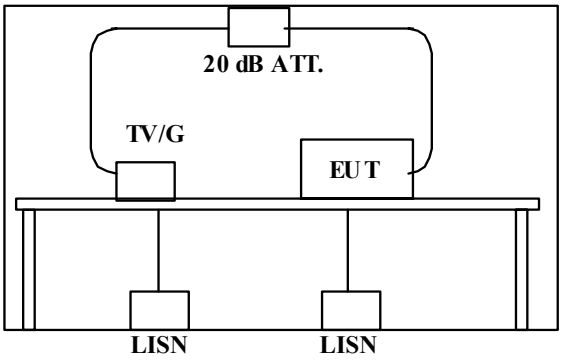
EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting plane. The rear of EUT was aligned and flushed with rear of tabletop. All other surfaces of tabletop was at least 80 cm from any other grounded conducting surface. I/O cables and AC cable were bundled in center. I/O cables were hanged at a 40cm height to the ground plane. Each EUT current-carrying power lead, except the ground (safety) lead, were individually connected through a LISN to the input power source. All unused 50 ohm connectors of the LISN were resistively terminated in 50 ohm when not connected to the measuring equipment.

A drawing of the set up is shown in figure 1 and photographs in Appendix 1.

Figure 1. Conducted emission

TV reception + Rec. mode (0 dBmV input / 25 dBmV input)

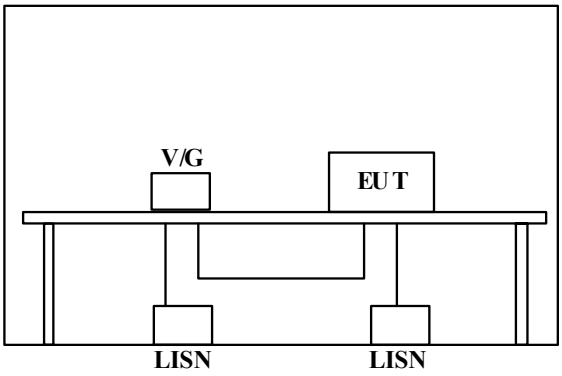
Shielded room



RF in: TV signal generator connected
Front video in: 75 ohm terminated
Front audio in: 47 k ohm terminated
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-Video out: 75 ohm terminated with S-Video cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated
Rear Audio in: 47 k ohm terminated

AV input 1+ Rec. / AV input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)

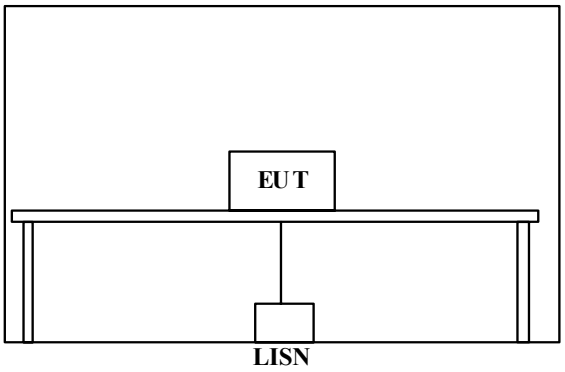
Shielded room



RF in: 75 ohm terminated
Front video in: Video signal generator connected or 75 ohm terminated
Front audio in: 47 k ohm terminated
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-Video out: 75 ohm terminated with S-Video cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: Video signal generator connected or 75 ohm terminated
Rear audio in: 47 k ohm terminated

VCR play + Rec. mode

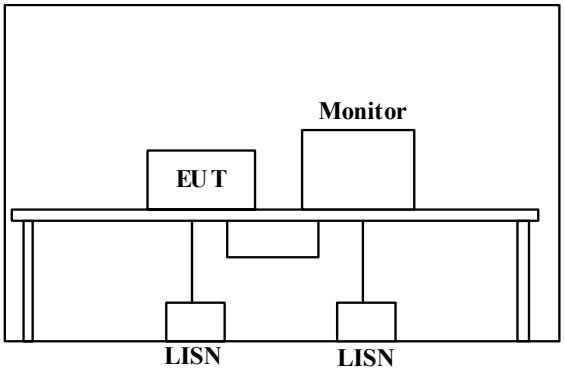
Shielded room



RF in: 75 ohm terminated with RF input cable
Front video in: 75 ohm terminated with video cable
Front audio in: 47 k ohm terminated with audio cable
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-Video out: 75 ohm terminated with S-Video cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated with video cable
Rear audio in: 47 k ohm terminated with audio cable

DVD play mode

Shielded room



RF in: 75 ohm terminated with RF input cable
Front video in: 75 ohm terminated with video cable
Front audio in: 47 k ohm terminated with audio cable
Rear video out: monitor connected
Rear audio out: monitor connected
S-Video out: 75 ohm terminated with S-Video cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated with video cable
Rear audio in: 47 k ohm terminated with audio cable

5.3 Test conditions

Frequency range : 0.15 MHz – 30 MHz
EUT position : Table top
EUT operation mode : TV reception + Rec., AV input 1+ Rec. / AV input 2 + Rec., VCR play, DVD play

5.4 Test procedure

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT within a shielded room. The EUT was connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection has been performed. The measurements have been performed with a quasi-peak detector and if required, with an average detector.
EUT and desired signal generator should connect through 20 dB attenuator.
The conducted emission measurements were made with the following detector function of the test receiver.
Detector Type : QP
IF Bandwidth : 10 kHz

5.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Yuichi Kaneyama

Section 6 : Radiated emission

6.1 Operation environment

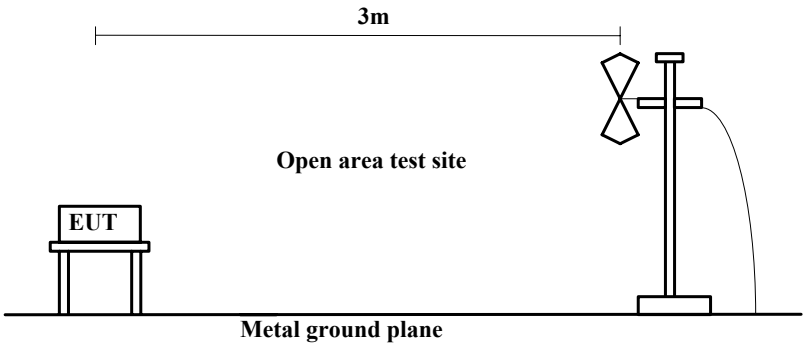
The test was carried out in an open site.

Date : July 26 and 27, 2004
Temperature : See data
Humidity : See data

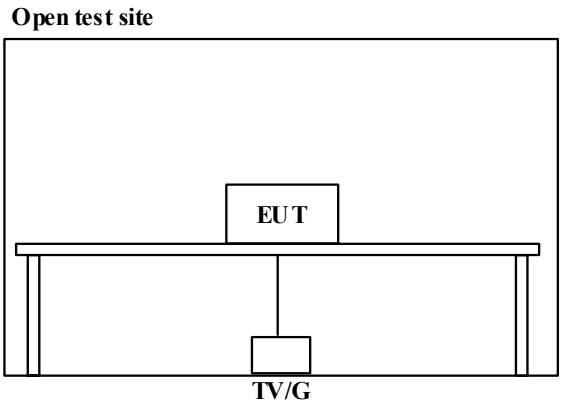
6.2 Test configuration

EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The rear of EUT was aligned and flushed with rear of tabletop. AC cable was bundled in center. I/O cables were hanged 40 cm height to the ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.
A drawing of the set up is shown in figure 2 and photographs in Appendix 1.

Figure 2. Radiated emission



TV reception + Rec. mode (0 dBmV / 25 dBmV)



RF in: TV signal generator connected
Front video in: 75 ohm terminated
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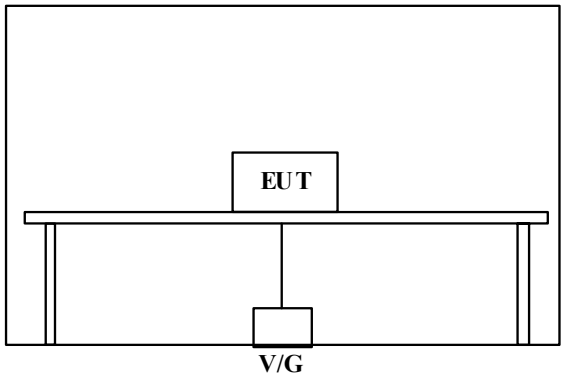
Rear audio out: 1 k ohm terminated with audio cable
S-Video out: 75 ohm terminated with S-Video cable
Component ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated
Rear Audio in: 47 k ohm terminated

AV input 1 + Rec. / AV input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)

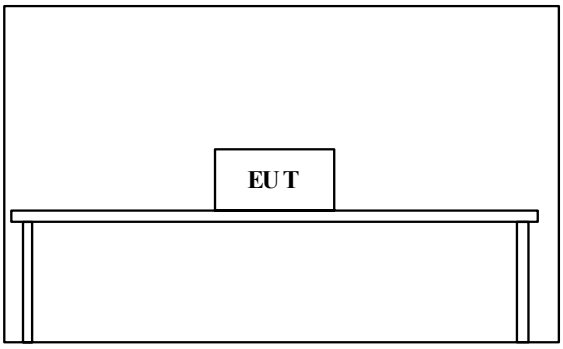
Open test site



RF in: 75 ohm terminated
Front video in: Video signal generator connected or 75 ohm terminated
Front audio in: 47 k ohm terminated
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-Video out: 75 ohm terminated with S-Video cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: Video signal generator connected or 75 ohm terminated
Rear audio in: 47 k ohm terminated

VCR play + Rec. mode

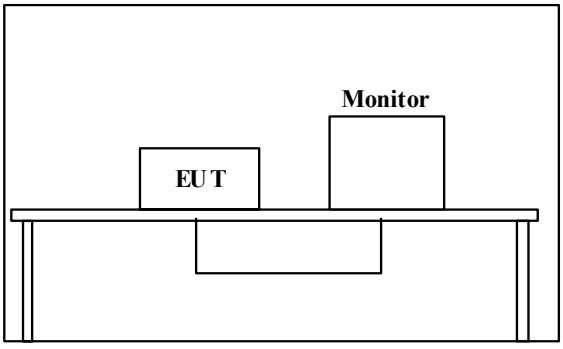
Open test site



RF in: 75 ohm terminated with RF input cable
Front video in: 75 ohm terminated with video cable
Front audio in: 47 k ohm terminated with audio cable
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-Video out: 75 ohm terminated with S-Video cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated with video cable
Rear audio in: 47 k ohm terminated with audio cable

DVD play mode

Open test site



RF in: 75 ohm terminated with RF input cable
Front video in: 75 ohm terminated with video cable
Front audio in: 47 k ohm terminated with audio cable
Rear video out: monitor connected
Rear audio out: monitor connected
S-Video out: 75 ohm terminated with S-Video cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated with video cable
Rear audio in: 47 k ohm terminated with audio cable

6.3 Test conditions

Frequency range : 30 MHz – 2000 MHz
Test distance : 3 m
EUT position : Table top
EUT operation mode : TV reception + Rec., AV input 1+ Rec. / AV input 2 + Rec., VCR play, DVD play

6.4 Test procedure

The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3 m.
Pre check measurements were performed within a search coil at high level of 80MHz – 90MHz, 270MHz – 290MHz and 500MHz – 700MHz in a shielded room to distinguish disturbances of EUT from the ambient noise. Measurements were performed with quasi-peak detector, peak detector and average detector.
The measuring antenna height was varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization.
The radiated emission measurements were made with the following detector function of the test receiver and spectrum analyzer.

	30-1000MHz (Test receiver)	1000-2000MHz (Spectrum analyzer)	
Detector Type	: QP	: PK	: AV
IF Bandwidth	: 120kHz	: RBW 1MHz / VBW 1MHz	: RBW 1MHz/ VBW 10Hz

6.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Seigo Kakehi (July 26, 2004)
Tsubasa Takayama (July 27, 2004)

Section 7 : Antenna terminal voltage

7.1 Operation environment

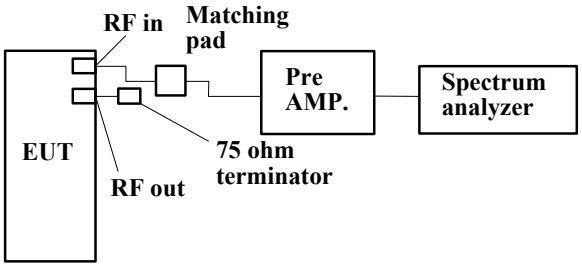
The test was carried out in a shielded room the size of 9.3 x 3.4 x 2.7 m.

Date : July 26, 2004
Temperature : See data
Humidity : See data

7.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.
A drawing of the set up is shown in figure 3 and photographs in Appendix 1.

Figure 3. Antenna terminal voltage



7.3 Test conditions

Frequency range : 30 MHz – 2000 MHz
EUT position : Table top
EUT operation mode : Tuning (TV receiver / CATV receiver)

7.4 Test procedure

Connect EUT and spectrum analyzer through pre-amplifier. Set EUT to CH investigation mode then measure the voltage of local leakage from antenna terminal. Spectrum analyzer should be hold in maximum mode during the measurement.

Detector Type : Peak (30-2000 MHz)

7.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Tsubasa Takayama

Section 8 : RF output level / spurious emission

8.1 Operation environment

The test was carried out in a shielded room the size of 9.3 x 3.4 x 2.7 m.

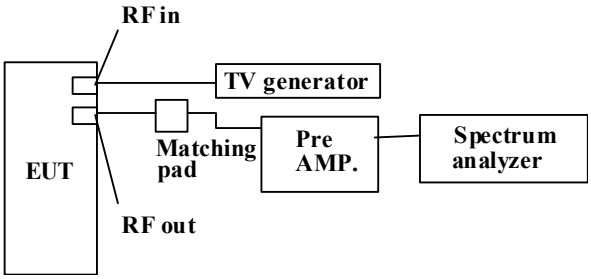
Date : July 28, 2004
Temperature : See data
Humidity : See data

8.2 Test configuration

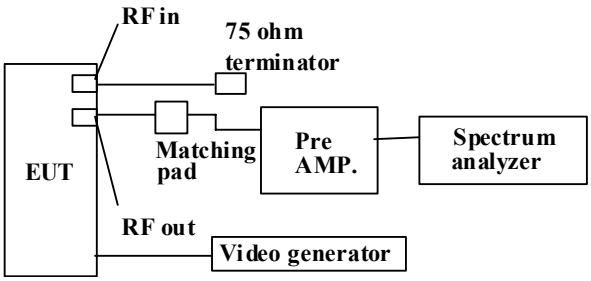
The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.
A drawing of the set up is shown in figure 4 and photographs in Appendix 1.

Figure 4. RF output level

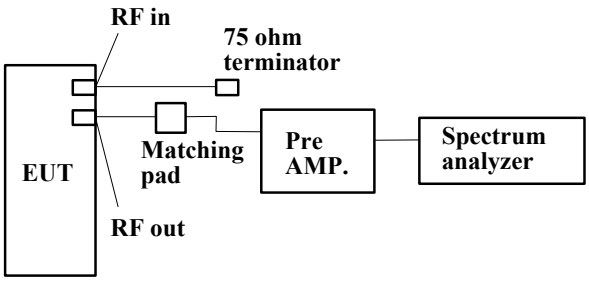
TV Reception + Rec. mode



AV input 1 + Rec. / AV input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)



VCR play mode and DVD play mode



8.3 Test conditions

EUT position : Table top
EUT operation mode : TV reception + Rec., AV input 1+ Rec. / AV input 2 + Rec., VCR play, DVD play

8.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3ch or 4ch. Picture carrier, sound carrier and spurious levels are measured. Both sound carrier levels (upper and lower side bands) of modulator output are measured.

Detector Type : Peak

8.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Seigo Kakehi

Section 9 : Antenna transfer switch

9.1 Operation environment

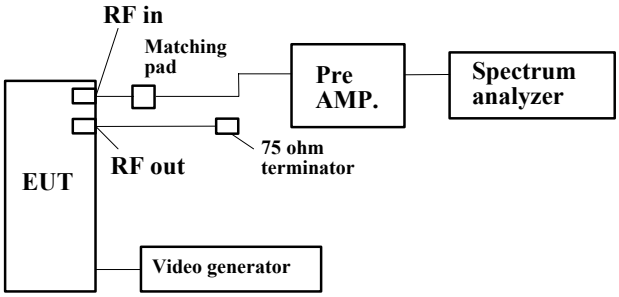
The test was carried out in a shielded room the size of 9.3 x 3.4 x 2.7 m..

Date : July 28, 2004
Temperature : See data
Humidity : See data

9.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.
A drawing of the set up is shown in figure 5 and photographs in Appendix 1.

Figure 5. Transfer switch



9.3 Test conditions

EUT position : Table top
EUT operation mode : AV input 1+ Rec. / AV input 2 + Rec., VCR play, DVD play

9.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3ch or 4ch. The EUT exercised AV input + Rec. mode and Playback mode during the test, and interference signals were measured from RF input terminal.

Detector Type : Peak

9.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Seigo Kakehi

Section 10 : Picture sensitivity

10.1 Operation environment

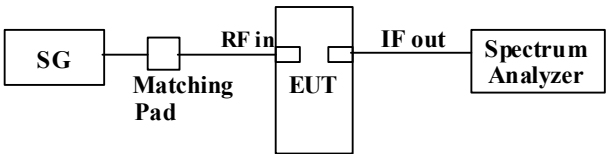
The test was carried out in a shielded room the size of 4.5 x 3.6 x 2.7 m.

Date : July 26, 2004
Temperature : See data
Humidity : See data

10.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.
A drawing of the set up is shown in figure 6 and photographs in Appendix 1.

Figure 6. Picture sensitivity



10.3 Test conditions

EUT position : Table top
EUT operation mode : TV reception

10.4 Test procedure

Signal generator setup is as follows, (Example: 2ch – 55.25 MHz, AM, 1 kHz, 30 %)
The EUT was tuned to appropriate channel.
Output level of signal generator was adjusted to near the frequency output level of EUT output.
EUT output level was adjusted to maximum output level by frequency adjustment of signal generator.
Signal generator output level was adjusted to reference output level of EUT and output level had read.

10.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Tsubasa Takayama

Section 11 : Noise figure

11.1 Operating environment

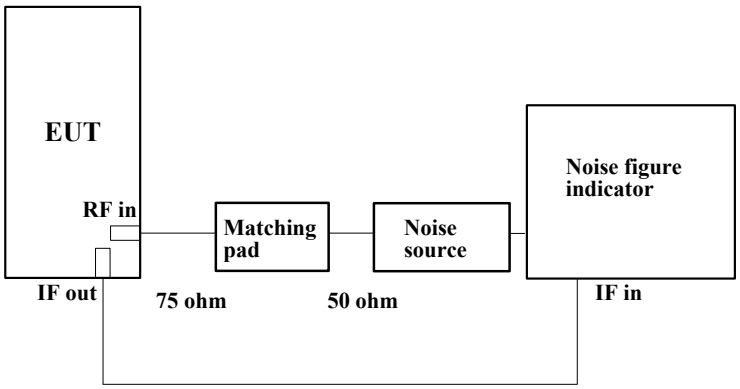
The test was carried out in a shielded room the size of 4.5 x 3.6 x 2.7 m.

Date : July 26, 2004
Temperature : See data
Humidity : See data

11.2 Test configuration

The EUT was placed on a non-metallic table.
A drawing of the set up is shown in figure 7 and photographs in Appendix 1.

Figure 7. Noise figure



11.3 Test condition

EUT position : Table top
EUT operation mode : TV reception

11.4 Test procedure

This test should be performed in a shielded room or an low noise environment. Connect solid state noise source to antenna input terminal of EUT. Connect IF output terminal of EUT to noise meter through ceramic condenser. Measurement has been performed for VHF,UHF, Mid-band and Super-band receiver range.

11.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

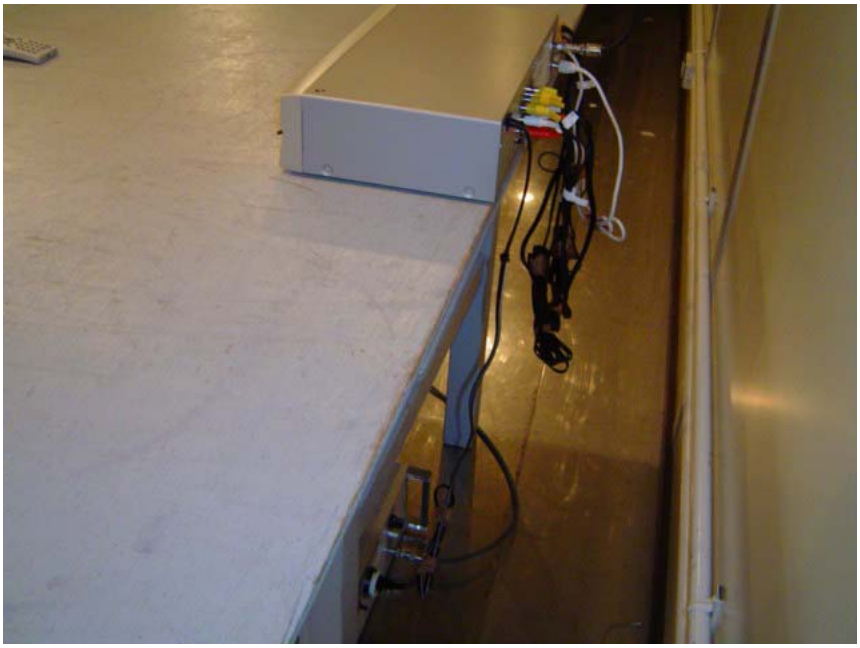
Test engineer: Tsubasa Takayama

Appendix 1 : Photographs of test set up

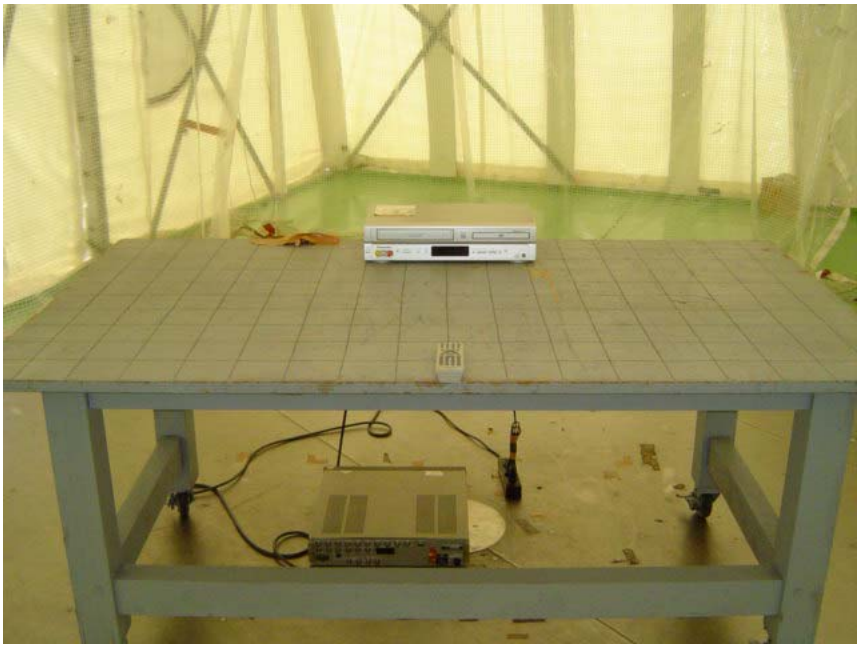
Appendix 2 : Data of EMI tests

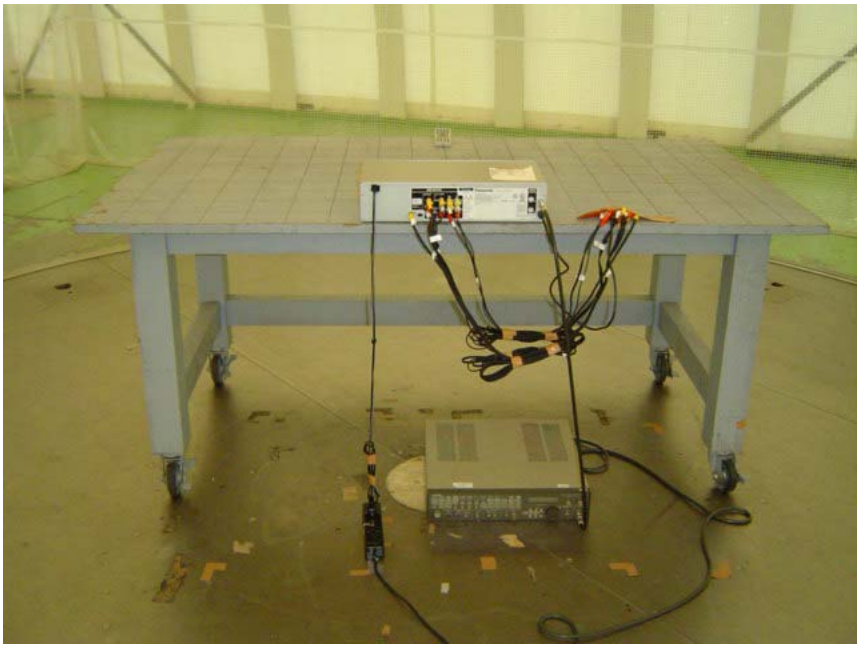
Appendix 3 : Test instruments

Conducted emission



Radiated emission

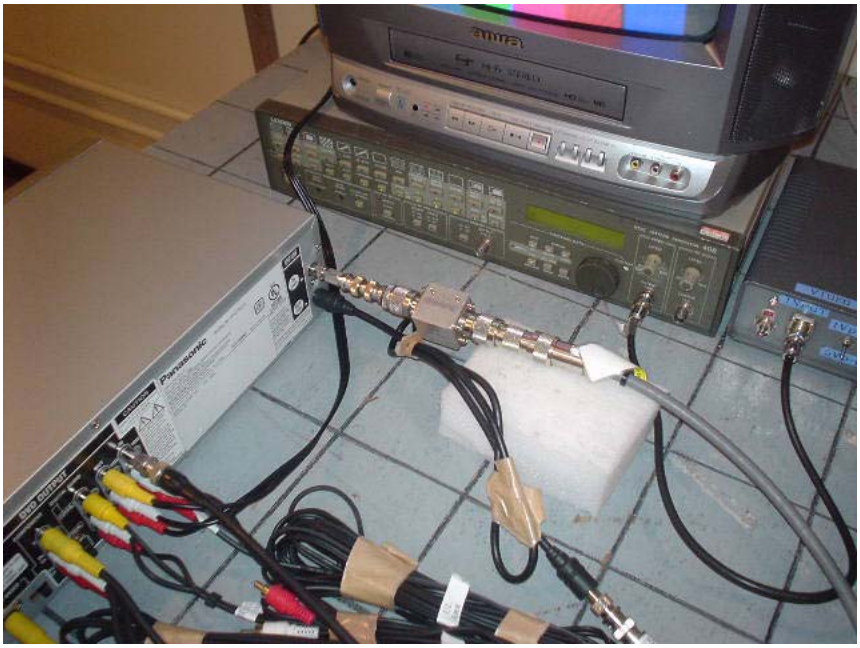




Antenna terminal voltage

RF output level / spurious emission

Antenna transfer switch



UL Apex Co., Ltd.
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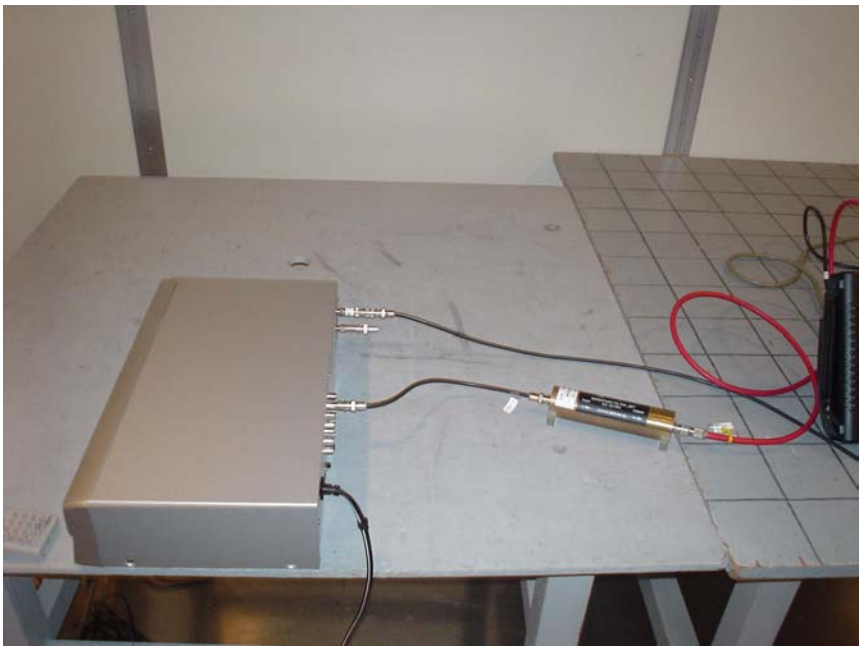
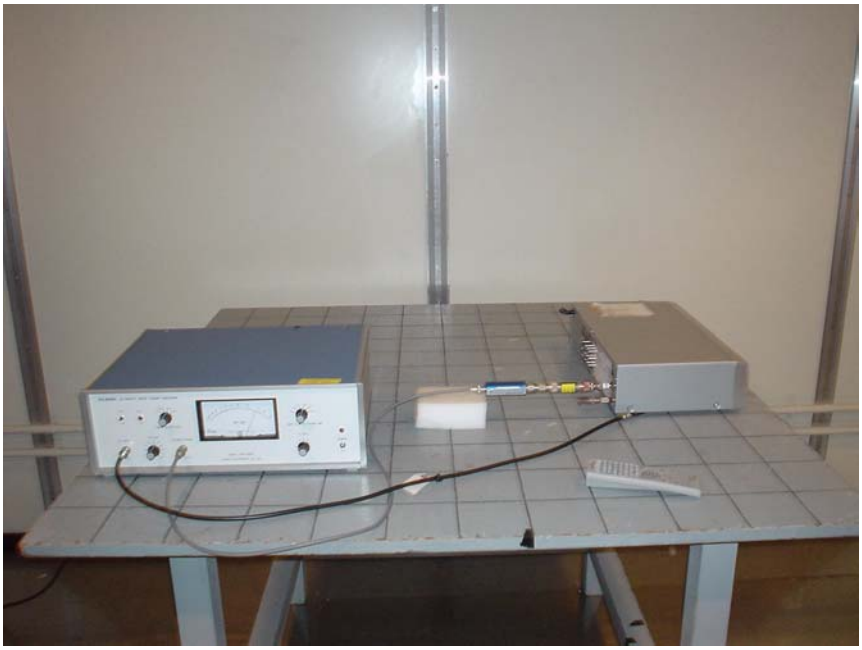
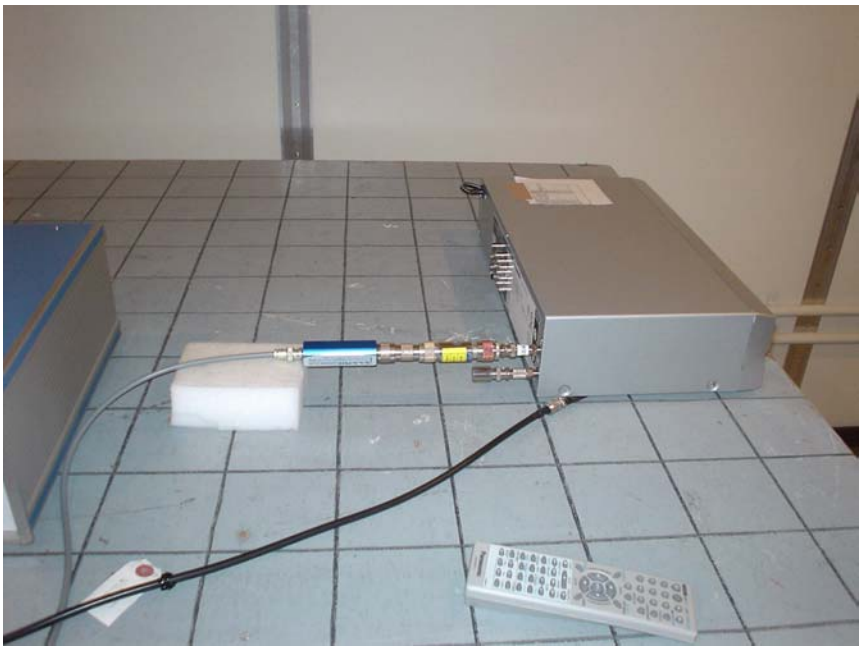
Telephone: +81 596 39 1485
Facsimile: +81 596 39 0232

Picture sensitivity



Noise figure





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : PV-D744S-A
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec.
Remarks : 25dBm
Date : 7/27/2004
Phase : Single Phase
Temperature : 23 °C **Engineer : Yuichi Kaneyama**
Humidity : 65 %
Regulation : FCC Part15 CLASS B(02-157)

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1707	42.5	-	45.1	-	0.1	0.0	0.0	45.2	-	64.9	54.9	19.7	-
2.	0.6964	26.2	-	30.4	-	0.2	0.1	0.0	30.7	-	56.0	46.0	25.3	-
3.	1.3815	29.8	-	31.6	-	0.2	0.2	0.0	32.0	-	56.0	46.0	24.0	-
4.	2.3770	27.5	-	27.5	-	0.2	0.2	0.0	27.9	-	56.0	46.0	28.1	-
5.	5.9775	25.7	-	27.2	-	0.4	0.3	0.0	27.9	-	60.0	50.0	32.1	-
6.	13.9455	28.2	-	29.4	-	1.1	0.4	0.0	30.9	-	60.0	50.0	29.1	-

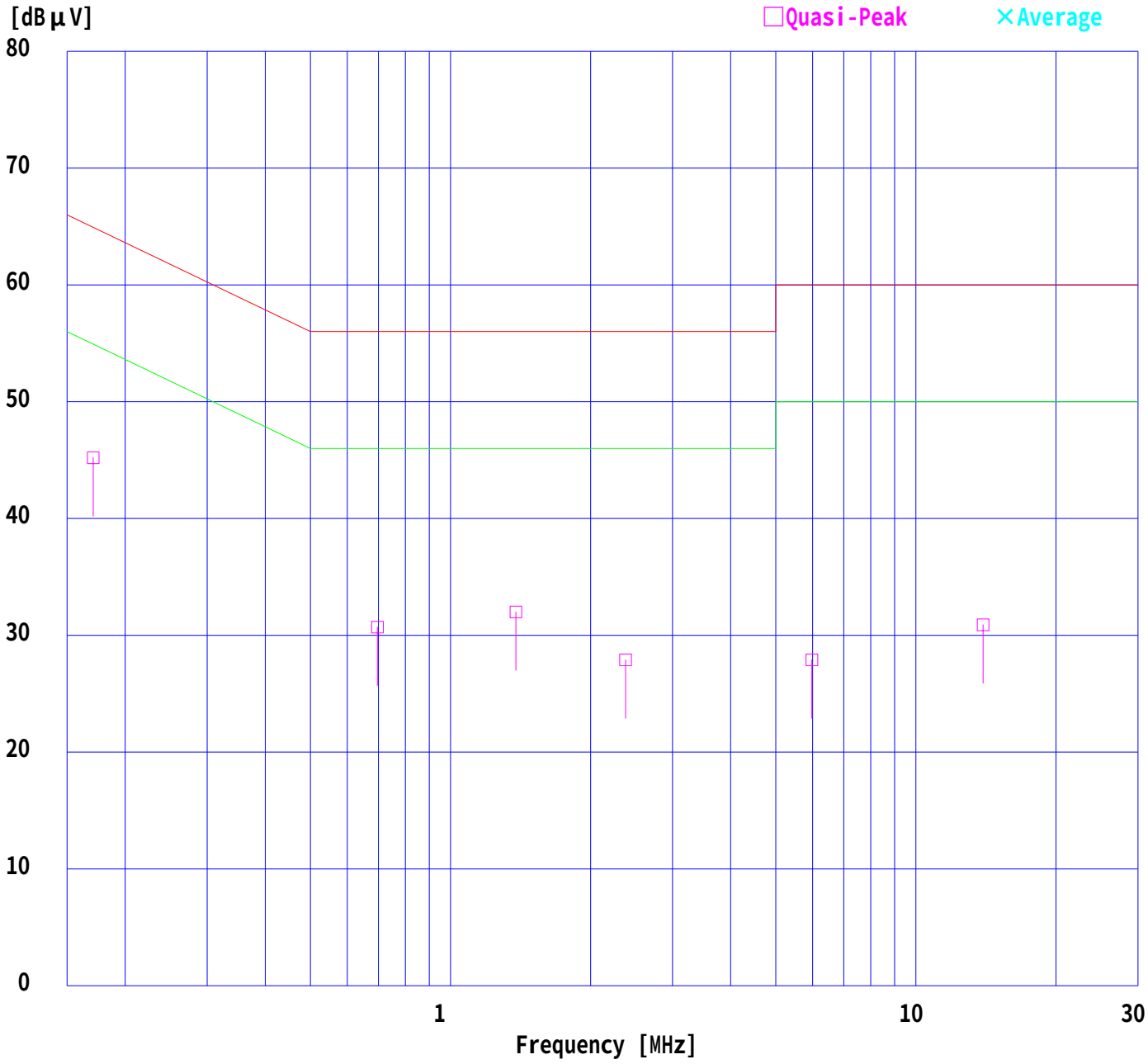
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

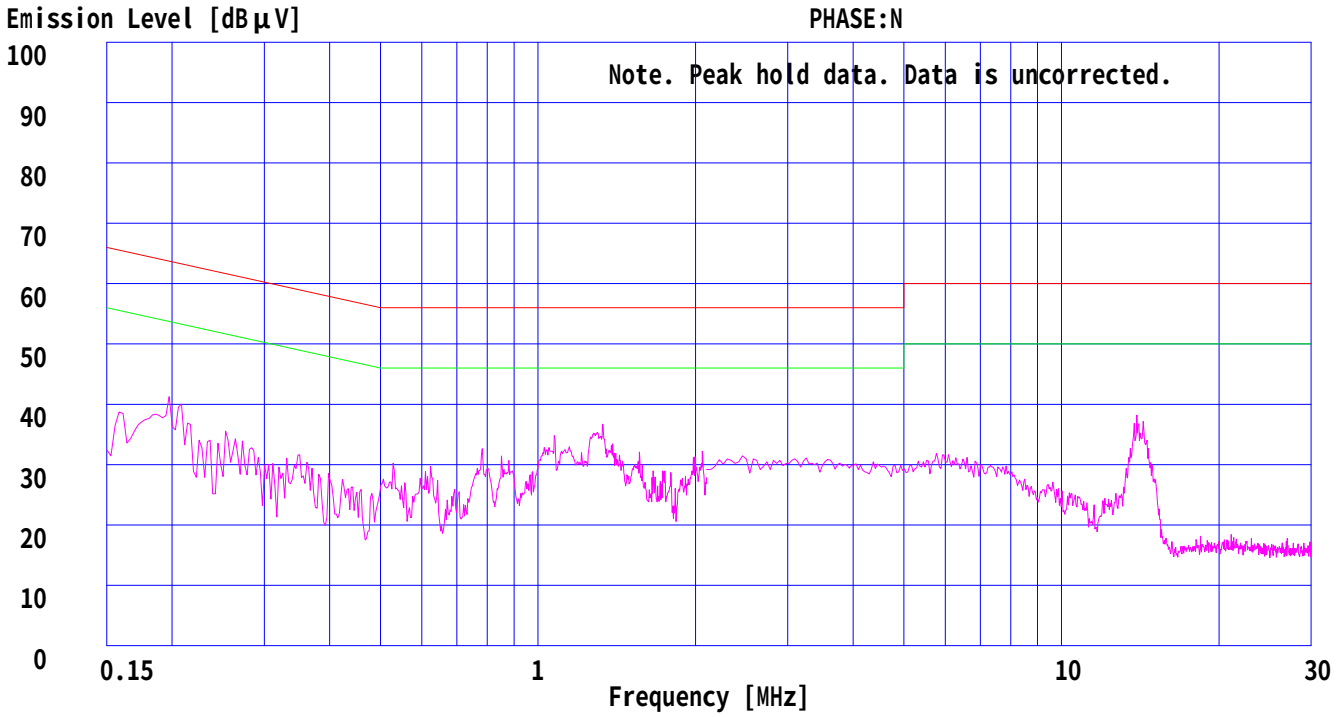
Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec.		
Remarks	: 25dBm		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation	: FCC Part15 CLASS B(02-157)		

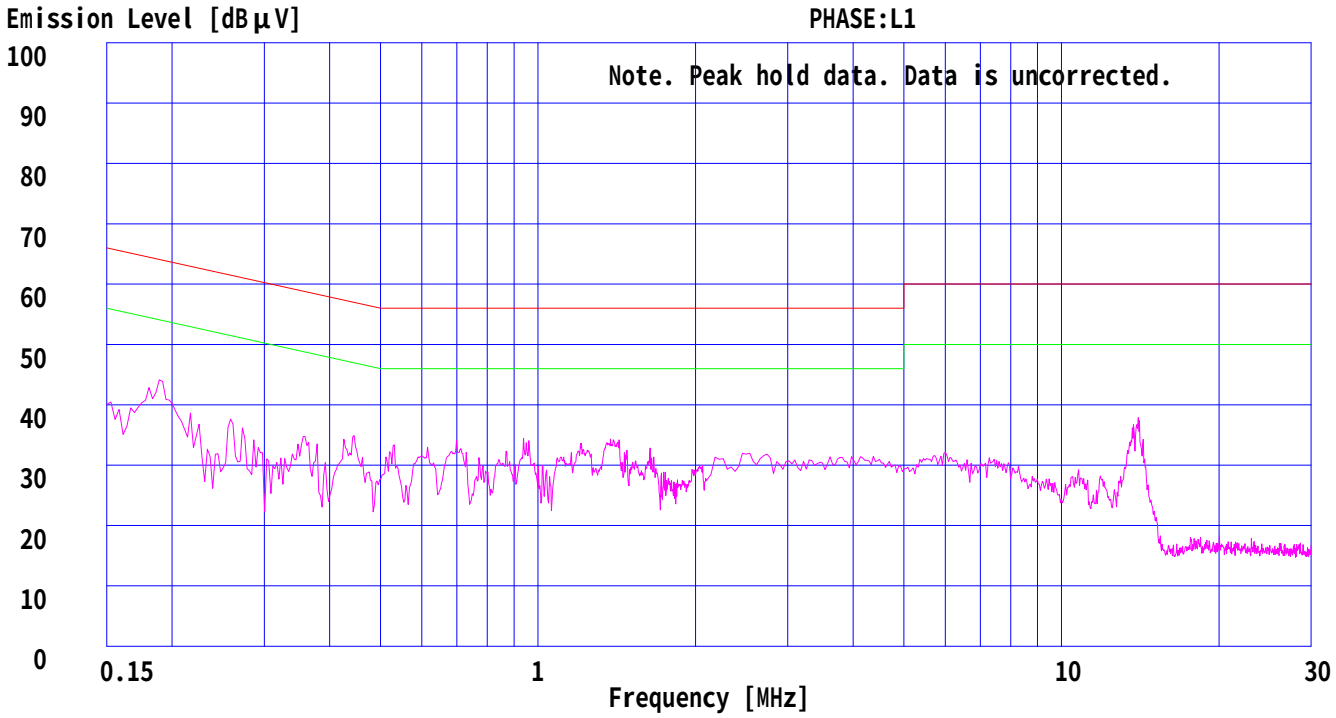


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec.		
Remarks	: 25dBm		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : PV-D744S-A
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec.
Remarks : 0dBm
Date : 7/27/2004
Phase : Single Phase
Temperature : 23 °C **Engineer : Yuichi Kaneyama**
Humidity : 65 %
Regulation : FCC Part15 CLASS B(02-157)

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1837	41.1	-	40.9	-	0.1	0.0	0.0	41.2	-	64.3	54.3	23.1	-
2.	0.9346	22.0	-	29.0	-	0.2	0.2	0.0	29.4	-	56.0	46.0	26.6	-
3.	1.3786	28.7	-	31.6	-	0.2	0.2	0.0	32.0	-	56.0	46.0	24.0	-
4.	2.4750	28.6	-	30.3	-	0.2	0.2	0.0	30.7	-	56.0	46.0	25.3	-
5.	6.0932	26.2	-	26.2	-	0.4	0.3	0.0	26.9	-	60.0	50.0	33.1	-
6.	13.8875	29.3	-	29.3	-	1.1	0.4	0.0	30.8	-	60.0	50.0	29.2	-

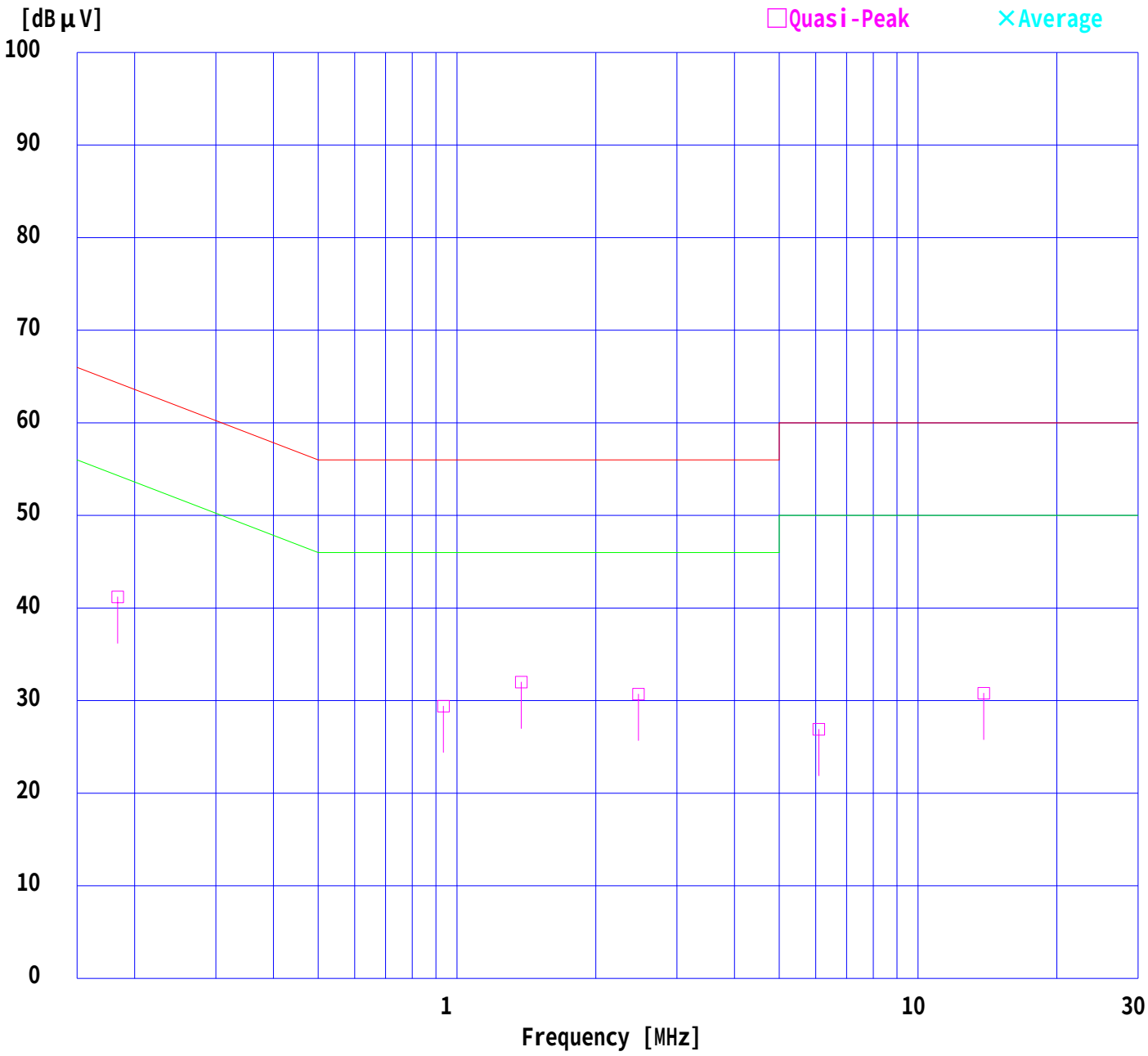
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

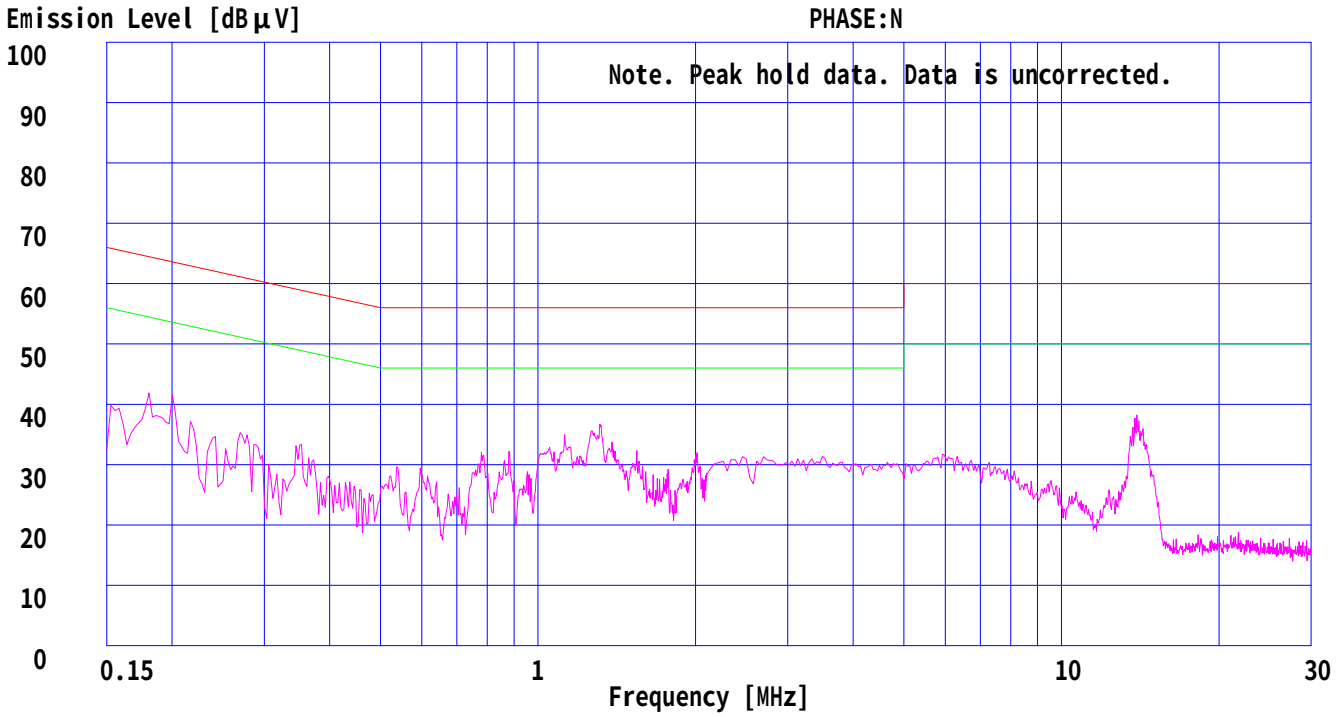
Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec.		
Remarks	: 0dBm		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation	: FCC Part15 CLASS B(02-157)		

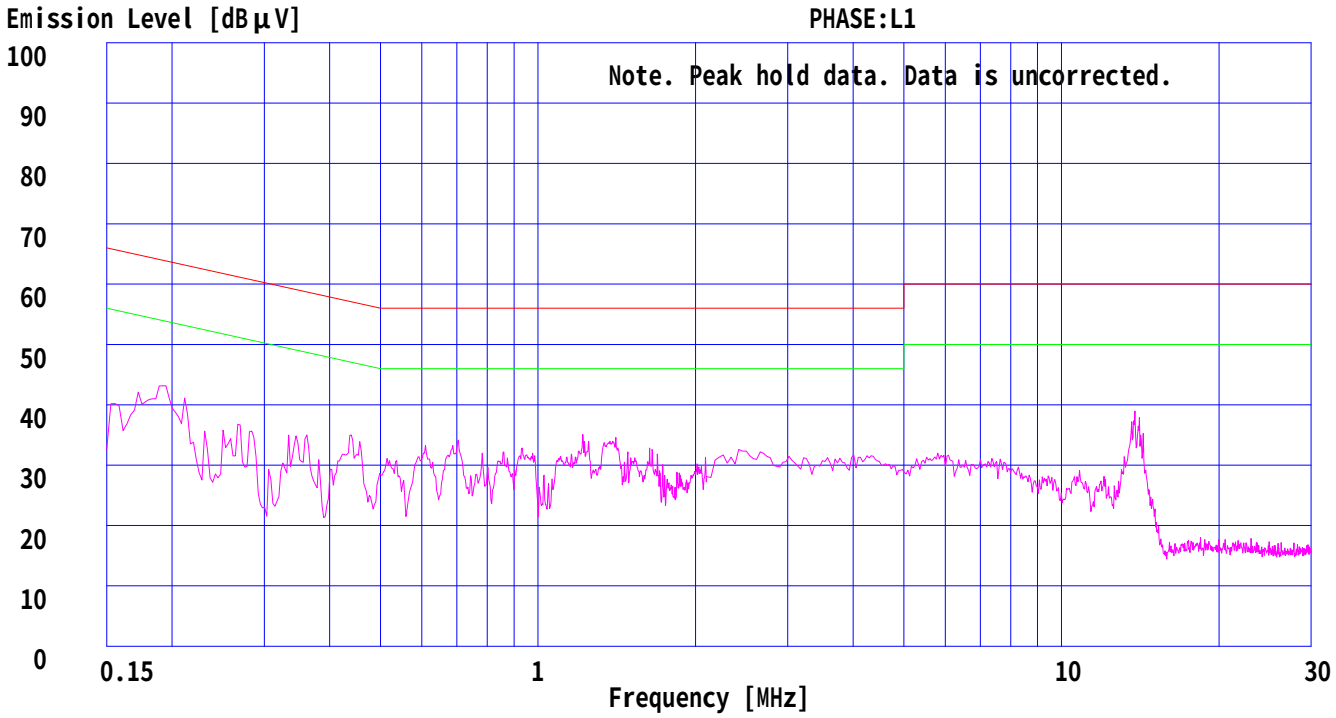


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec.		
Remarks	: 0dBm		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input 1+Rec.**
Remarks : **5Vp-p**
Date : **7/27/2004**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer** : **Yuichi Kaneyama**
Humidity : **65 %**
Regulation : **FCC Part15 CLASS B(02-157)**

No.	FREQ.	READING(N)		READING(L1)		LISN	CABLE	ATTEN.	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV	FACTOR	LOSS		QP	AV	QP	AV	QP	AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1815	41.3	-	44.8	-	0.1	0.0	0.0	44.9	-	64.4	54.4	19.5	-
2.	0.7794	26.6	-	24.7	-	0.2	0.1	0.0	26.9	-	56.0	46.0	29.1	-
3.	1.3042	32.5	-	30.7	-	0.2	0.2	0.0	32.9	-	56.0	46.0	23.1	-
4.	2.5037	27.7	-	29.8	-	0.2	0.2	0.0	30.2	-	56.0	46.0	25.8	-
5.	5.7287	25.4	-	25.8	-	0.4	0.3	0.0	26.5	-	60.0	50.0	33.5	-
6.	13.7435	22.1	-	23.7	-	1.1	0.4	0.0	25.2	-	60.0	50.0	34.8	-

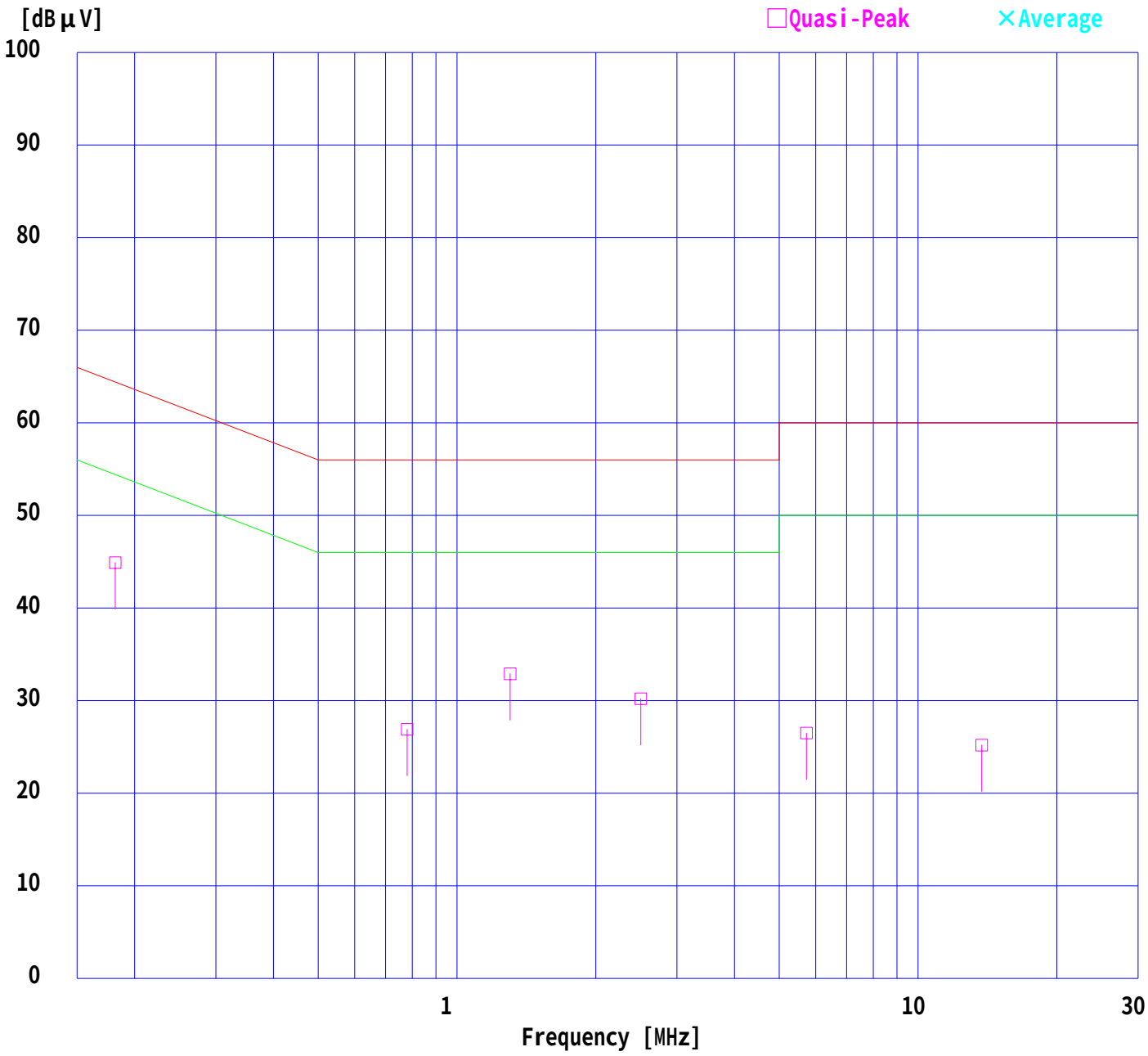
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

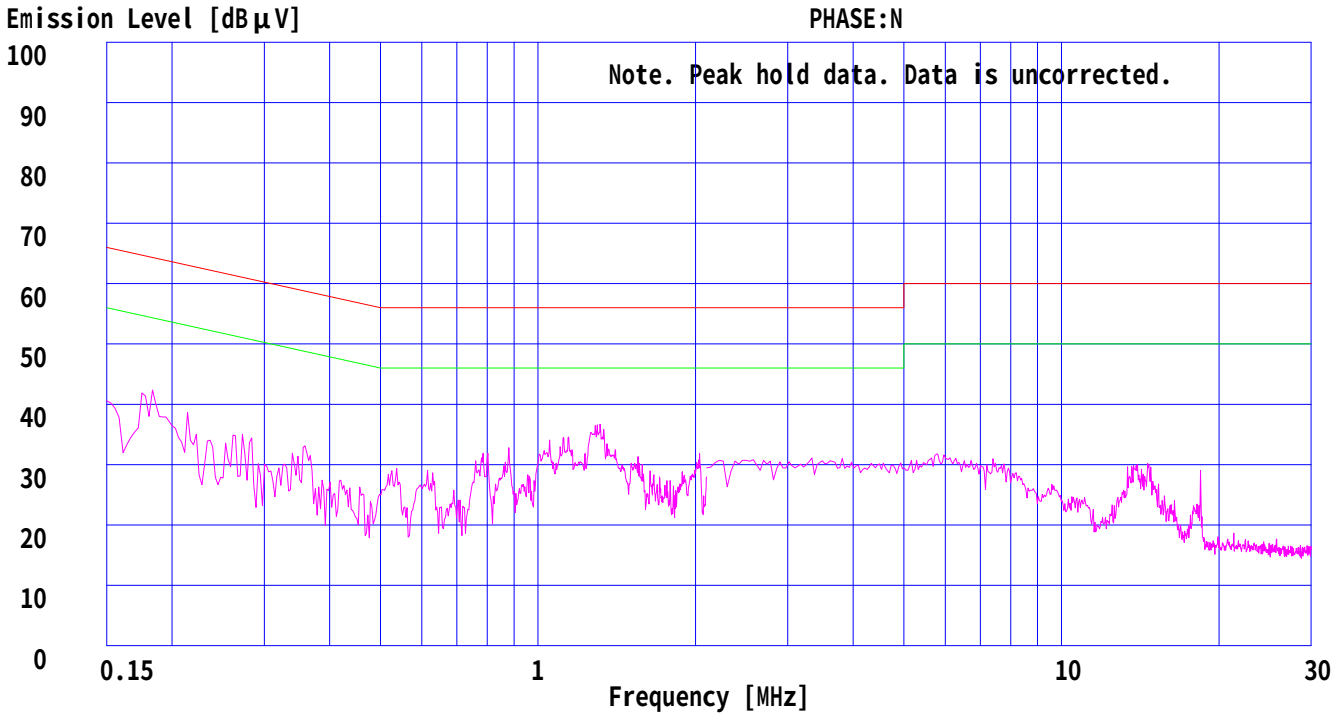
Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 1+Rec.		
Remarks	: 5Vp-p		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation	: FCC Part15 CLASS B(02-157)		

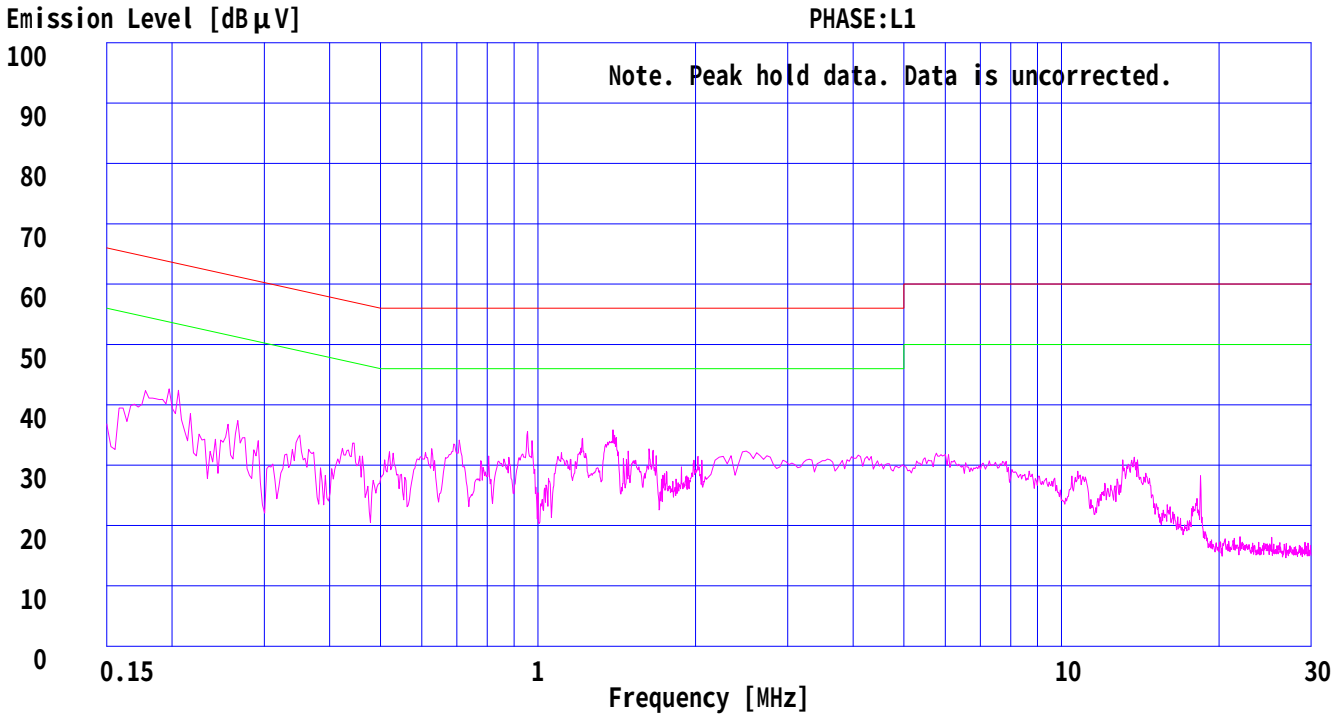


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 1+Rec.		
Remarks	: 5Vp-p		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input 1+Rec.**
Remarks : **1Vp-p**
Date : **7/27/2004**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer** : **Yuichi Kaneyama**
Humidity : **65 %**
Regulation : **FCC Part15 CLASS B(02-157)**

No.	FREQ.	READING(N)		READING(L1)		LISN	CABLE	ATTEN.	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV	FACTOR	LOSS		QP	AV	QP	AV	QP	AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1702	43.9	-	45.2	-	0.1	0.0	0.0	45.3	-	65.0	55.0	19.7	-
2.	0.6939	20.2	-	30.4	-	0.2	0.1	0.0	30.7	-	56.0	46.0	25.3	-
3.	1.3962	29.4	-	31.7	-	0.2	0.2	0.0	32.1	-	56.0	46.0	23.9	-
4.	2.5882	28.0	-	27.4	-	0.2	0.2	0.0	28.4	-	56.0	46.0	27.6	-
5.	5.8572	25.8	-	27.3	-	0.4	0.3	0.0	28.0	-	60.0	50.0	32.0	-
6.	13.4118	19.7	-	22.9	-	1.0	0.4	0.0	24.3	-	60.0	50.0	35.7	-

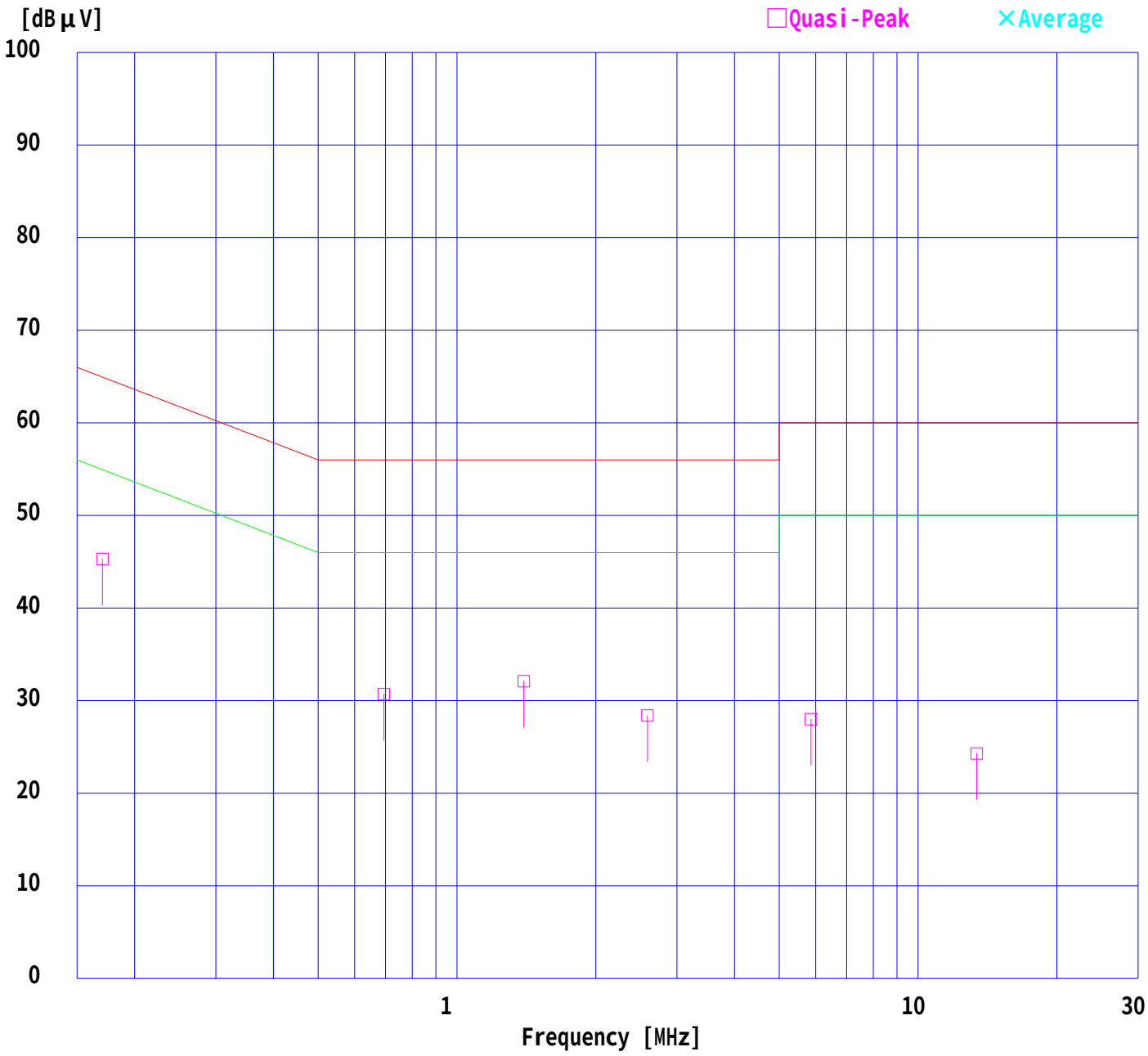
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

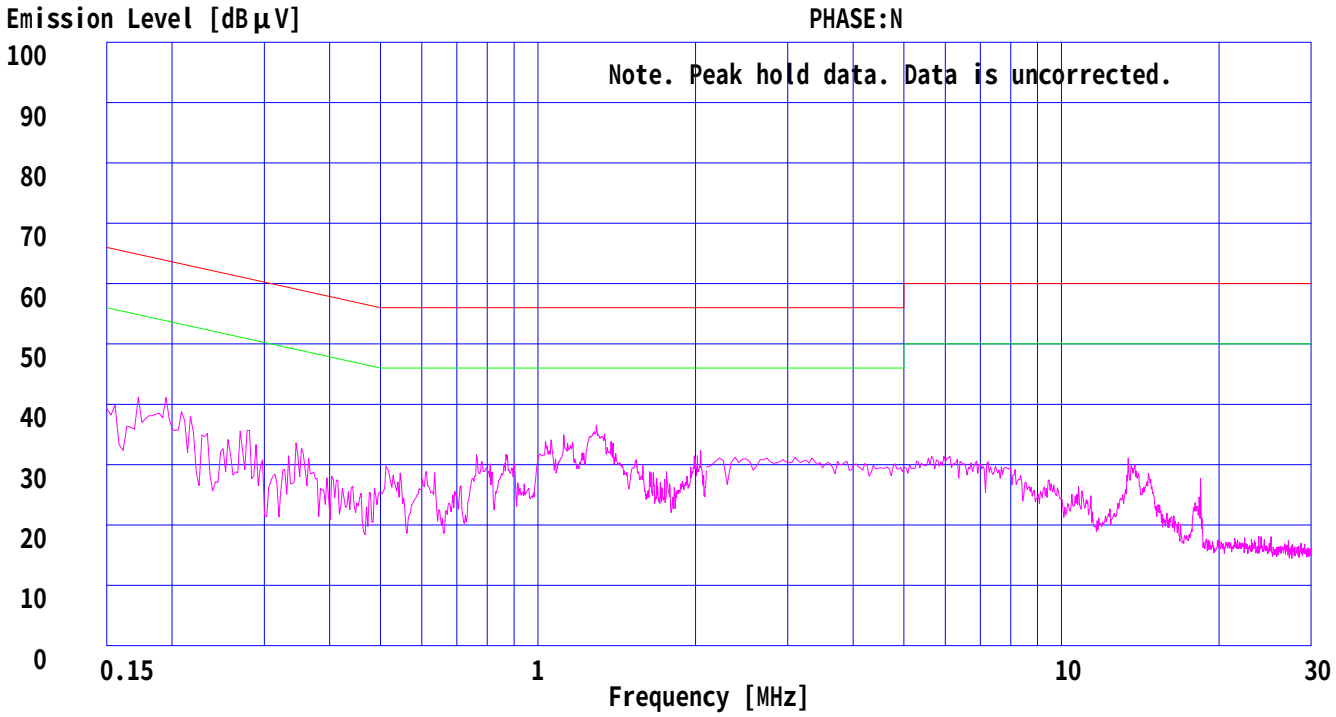
Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 1+Rec.		
Remarks	: 1Vp-p		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation	: FCC Part15 CLASS B(02-157)		

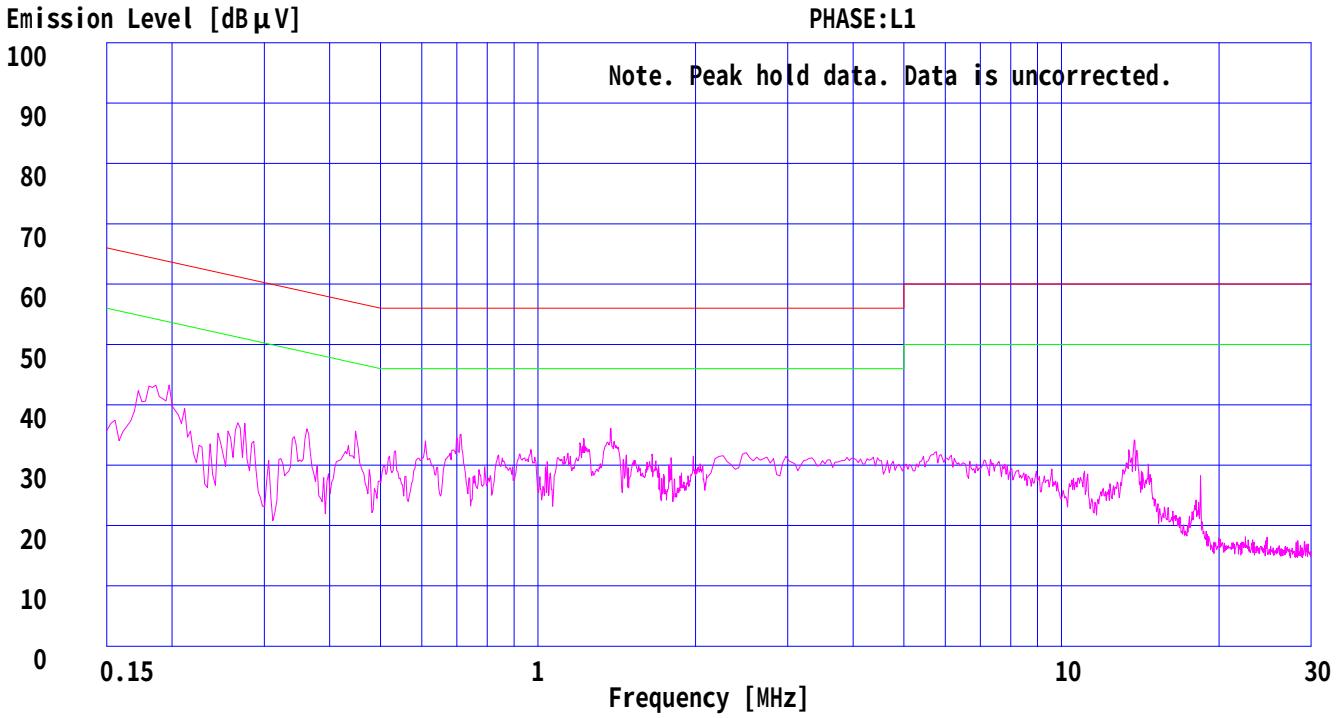


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 1+Rec.		
Remarks	: 1Vp-p		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : PV-D744S-A
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2+Rec.
Remarks : 5Vp-p
Date : 7/27/2004
Phase : Single Phase
Temperature : 23 °C **Engineer : Yuichi Kaneyama**
Humidity : 65 %
Regulation : FCC Part15 CLASS B(02-157)

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1732	43.9	-	45.1	-	0.1	0.0	0.0	45.2	-	64.8	54.8	19.6	-
2.	0.3428	30.0	-	30.2	-	0.2	0.1	0.0	30.5	-	59.1	49.1	28.6	-
3.	0.6901	20.2	-	30.2	-	0.2	0.1	0.0	30.5	-	56.0	46.0	25.5	-
4.	1.3944	29.6	-	31.5	-	0.2	0.2	0.0	31.9	-	56.0	46.0	24.1	-
5.	2.5127	28.4	-	30.3	-	0.2	0.2	0.0	30.7	-	56.0	46.0	25.3	-
6.	13.7224	20.5	-	23.0	-	1.1	0.4	0.0	24.5	-	60.0	50.0	35.5	-

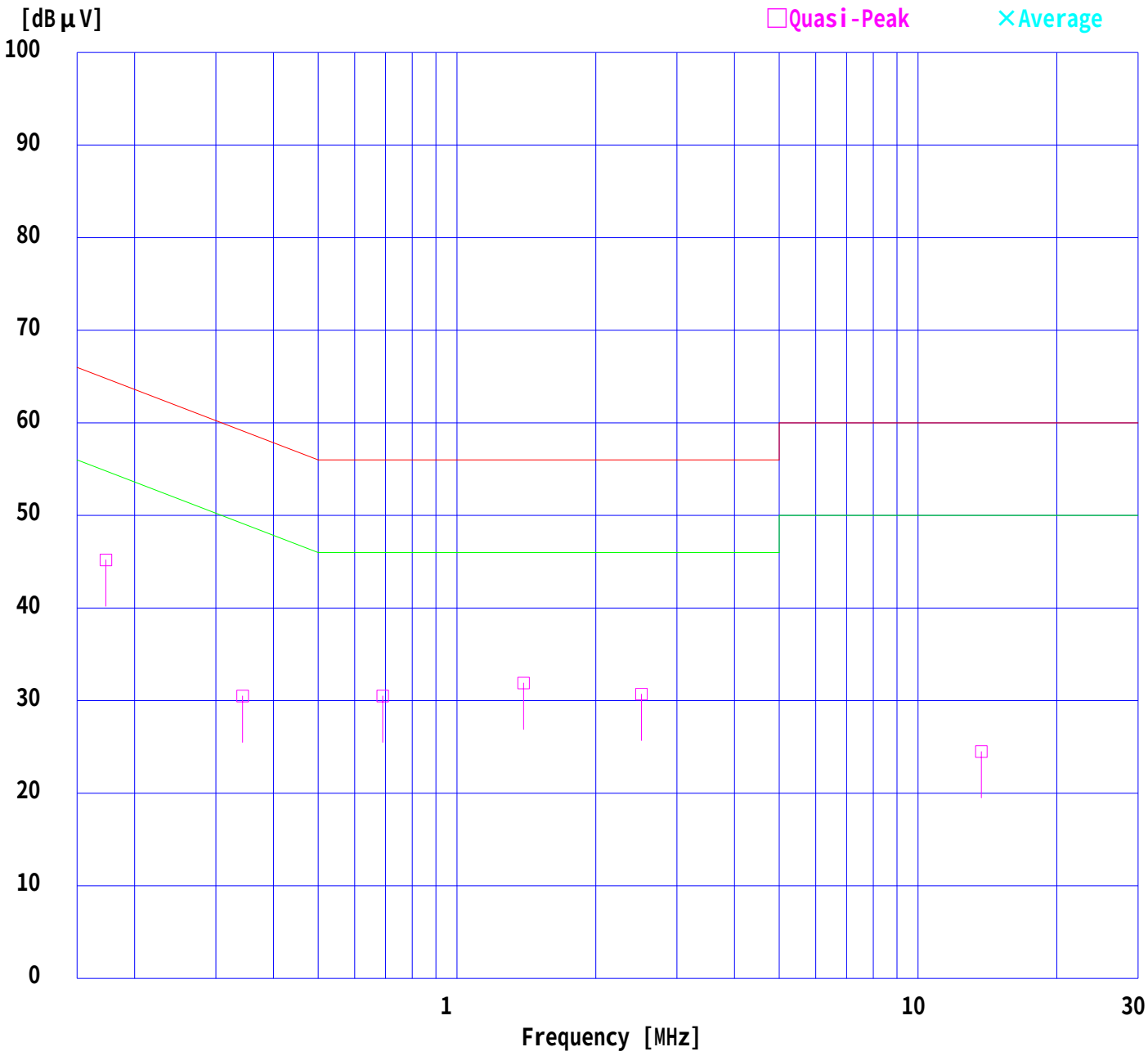
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

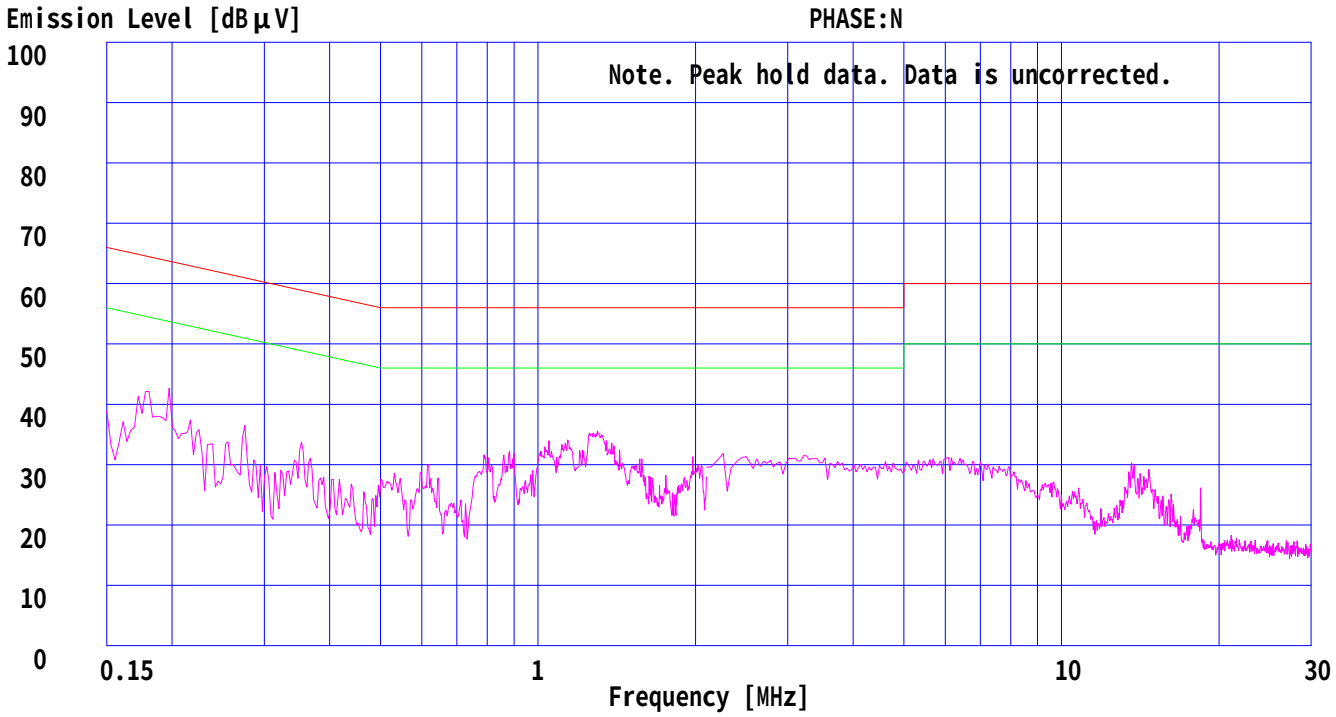
Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 2+Rec.		
Remarks	: 5Vp-p		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation	: FCC Part15 CLASS B(02-157)		

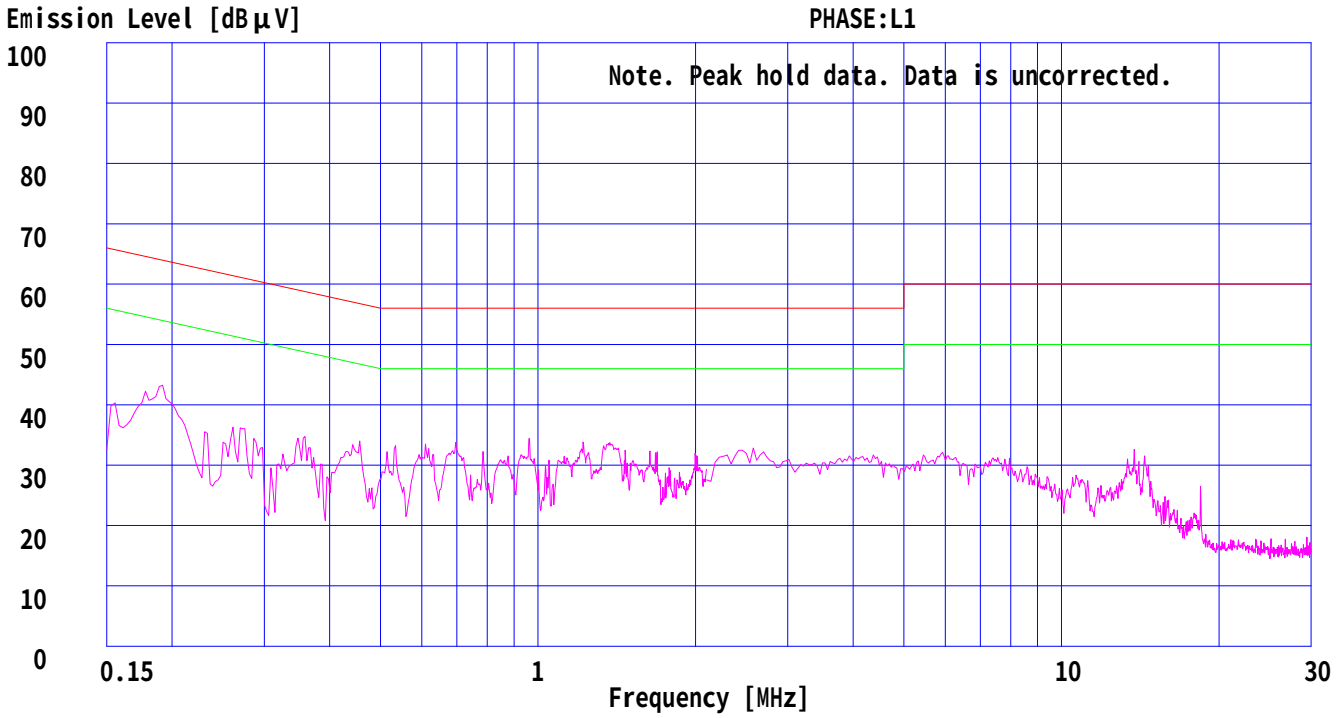


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 2+Rec.		
Remarks	: 5Vp-p		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input 2+Rec.**
Remarks : **1Vp-p**
Date : **7/27/2004**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer** : **Yuichi Kaneyama**
Humidity : **65 %**
Regulation : **FCC Part15 CLASS B(02-157)**

No.	FREQ.	READING(N)		READING(L1)		LISN	CABLE	ATTEN.	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV	FACTOR	LOSS		QP	AV	QP	AV	QP	AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1714	43.8	-	45.3	-	0.1	0.0	0.0	45.4	-	64.9	54.9	19.5	-
2.	0.7005	27.0	-	30.1	-	0.2	0.1	0.0	30.4	-	56.0	46.0	25.6	-
3.	1.2239	33.0	-	29.2	-	0.2	0.2	0.0	33.4	-	56.0	46.0	22.6	-
4.	2.5106	28.7	-	30.1	-	0.2	0.2	0.0	30.5	-	56.0	46.0	25.5	-
5.	5.8973	26.6	-	26.5	-	0.4	0.3	0.0	27.3	-	60.0	50.0	32.7	-
6.	13.6016	20.7	-	22.1	-	1.1	0.4	0.0	23.6	-	60.0	50.0	36.4	-

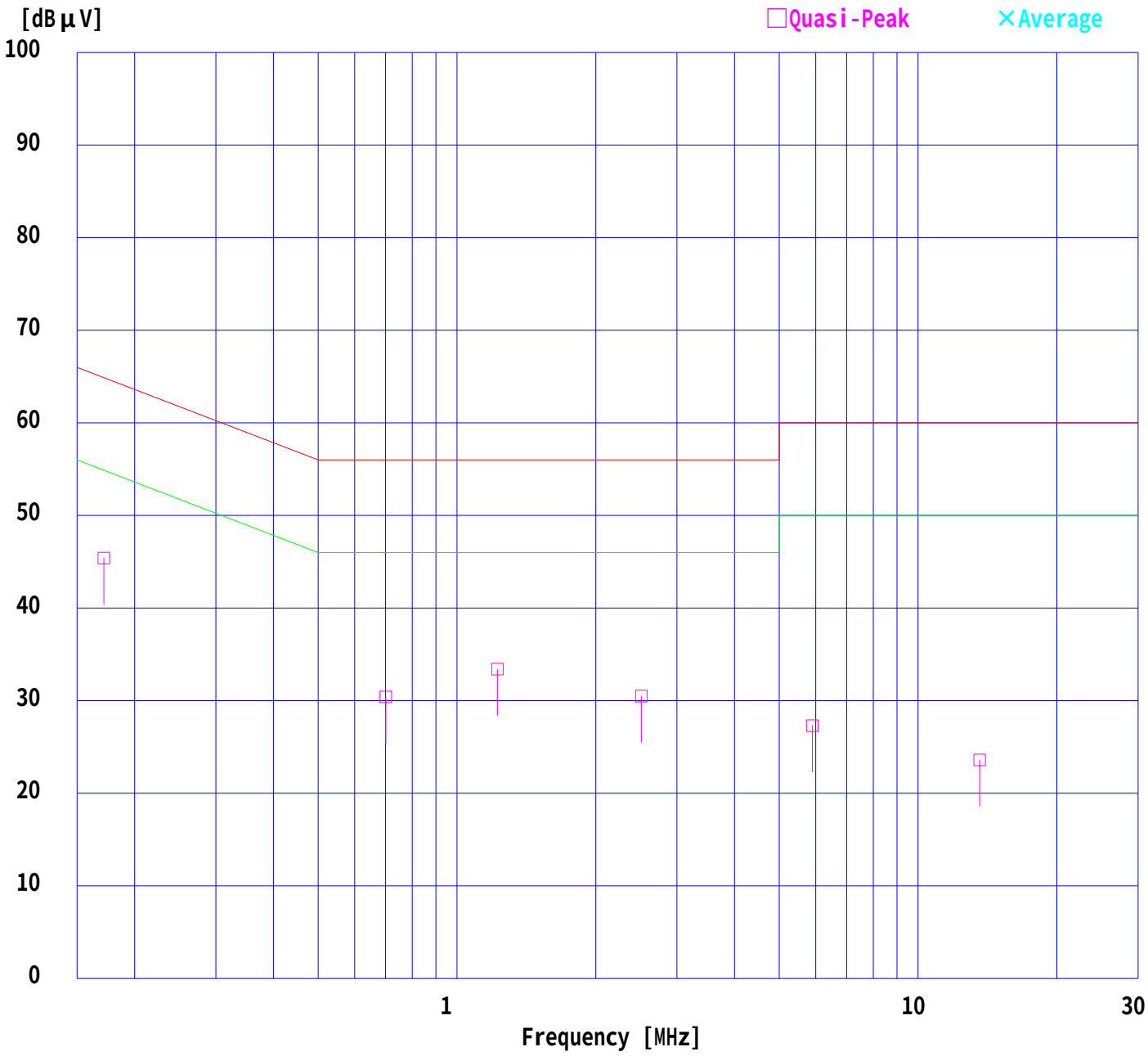
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

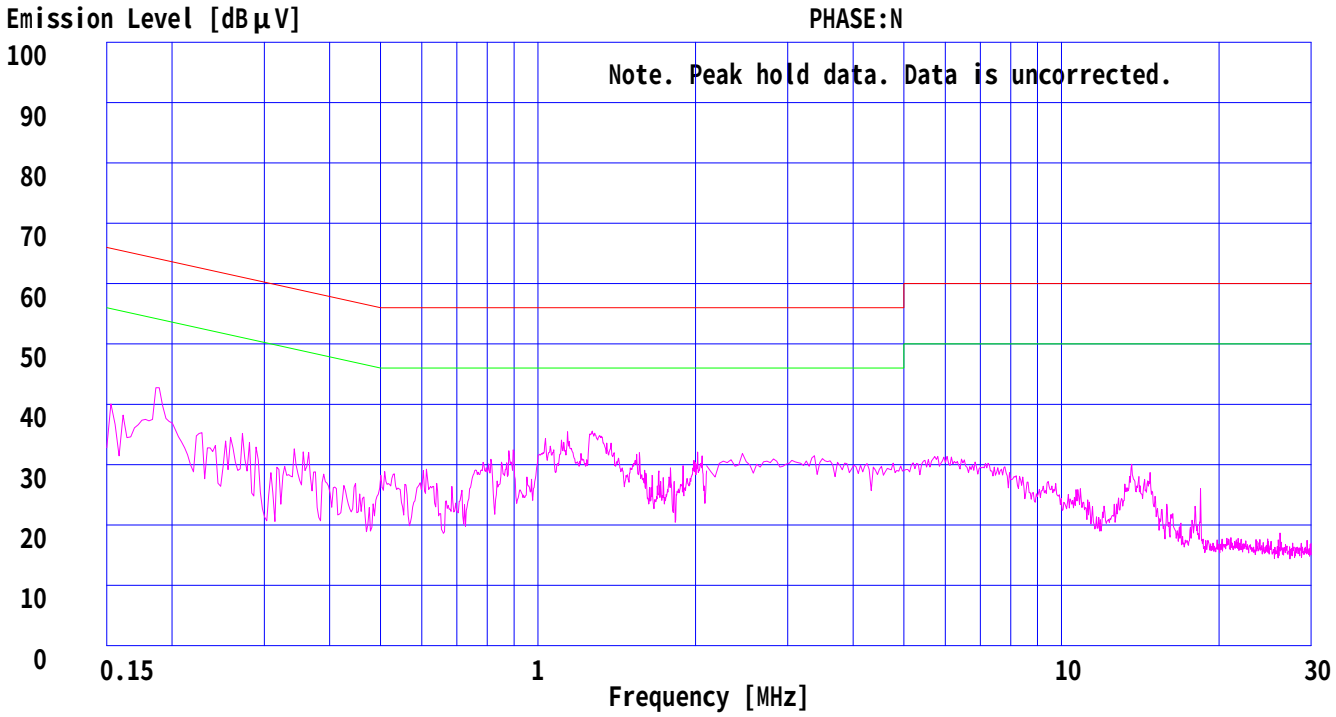
Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 2+Rec.		
Remarks	: 1Vp-p		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation	: FCC Part15 CLASS B(02-157)		

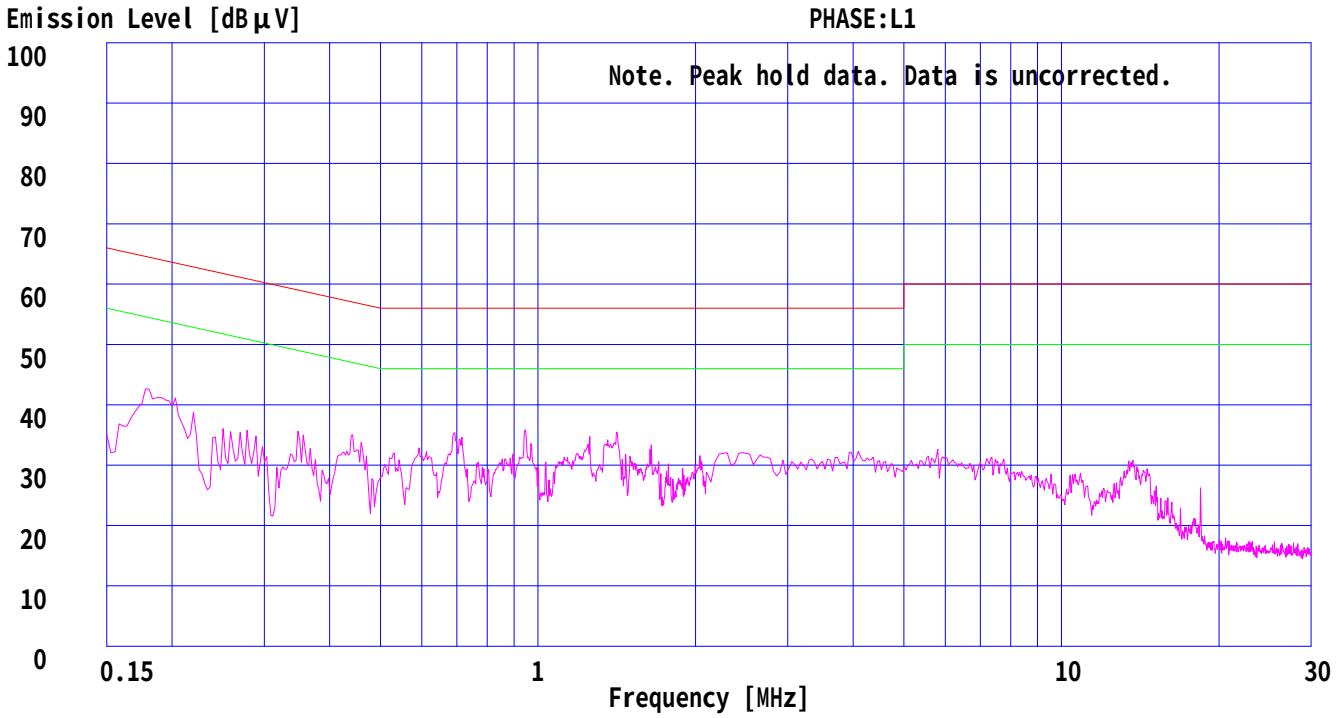


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 2+Rec.		
Remarks	: 1Vp-p		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **VCR Play**
Remarks :
Date : **7/27/2004**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer** : **Yuichi Kaneyama**
Humidity : **65 %**
Regulation : **FCC Part15 CLASS B(02-157)**

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1855	42.0	-	41.8	-	0.1	0.0	0.0	42.1	-	64.2	54.2	22.1	-
2.	0.3013	31.3	-	30.8	-	0.2	0.0	0.0	31.5	-	60.2	50.2	28.7	-
3.	0.7378	18.7	-	28.1	-	0.2	0.1	0.0	28.4	-	56.0	46.0	27.6	-
4.	1.4443	26.9	-	30.4	-	0.2	0.2	0.0	30.8	-	56.0	46.0	25.2	-
5.	2.4044	28.8	-	29.1	-	0.2	0.2	0.0	29.5	-	56.0	46.0	26.5	-
6.	13.4573	15.4	-	21.3	-	1.0	0.4	0.0	22.7	-	60.0	50.0	37.3	-

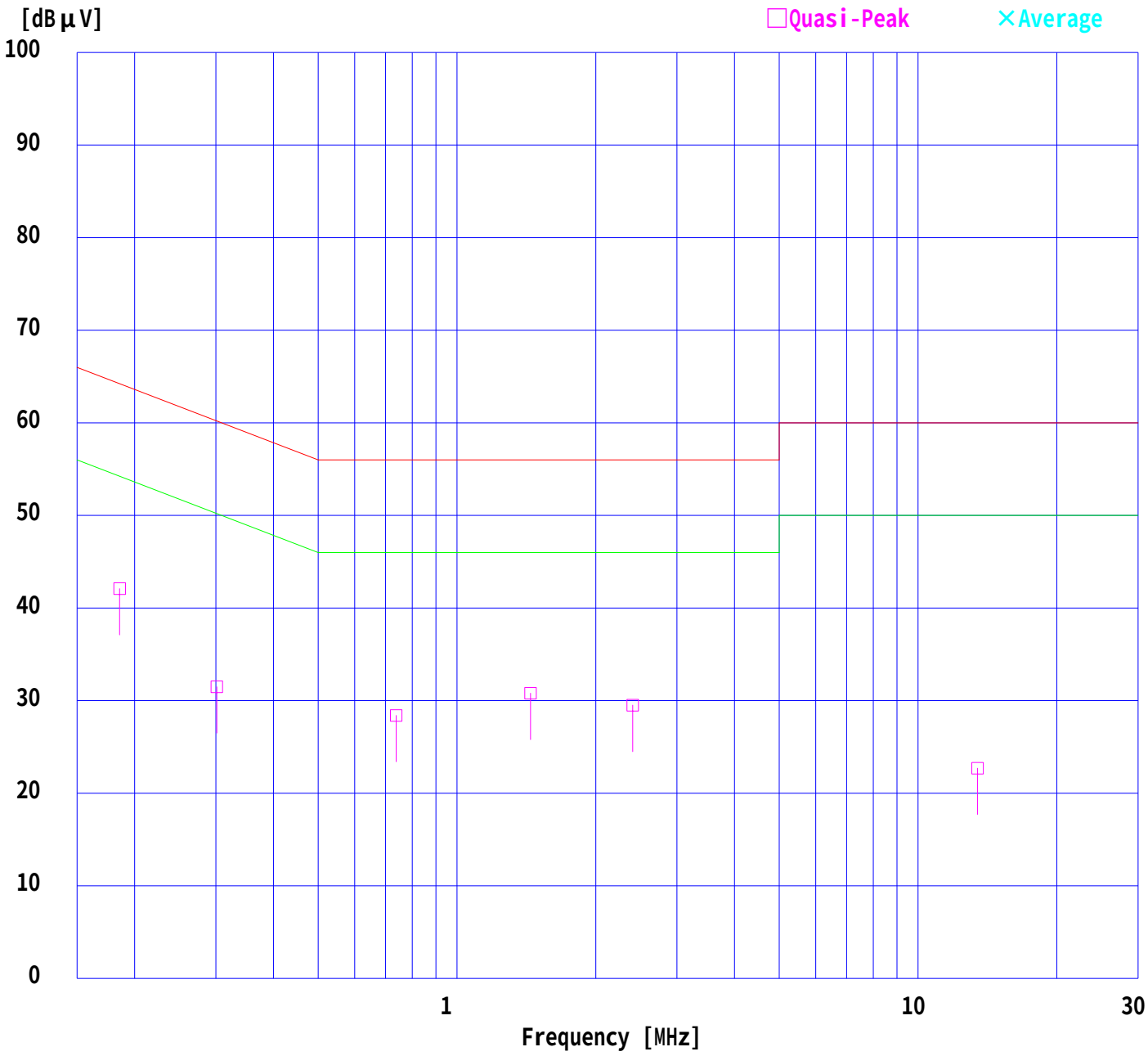
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

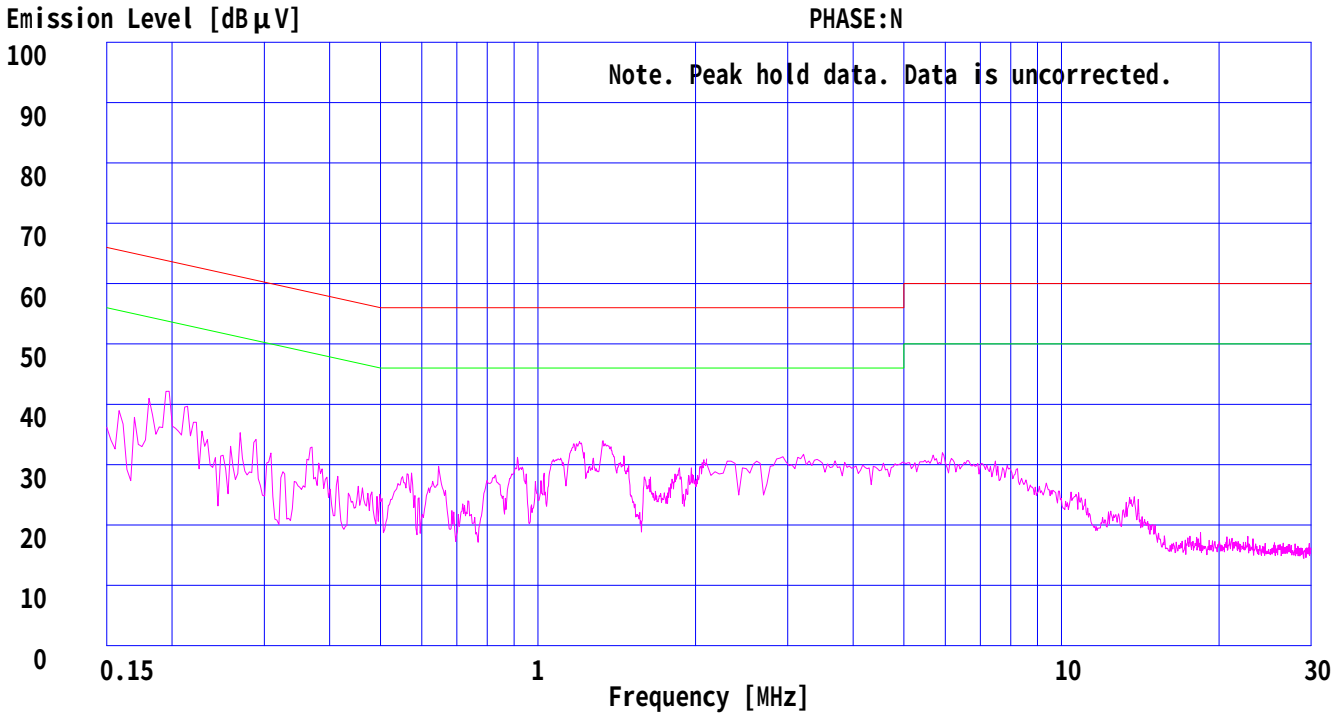
Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: VCR Play		
Remarks	:		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation	: FCC Part15 CLASS B(02-157)		

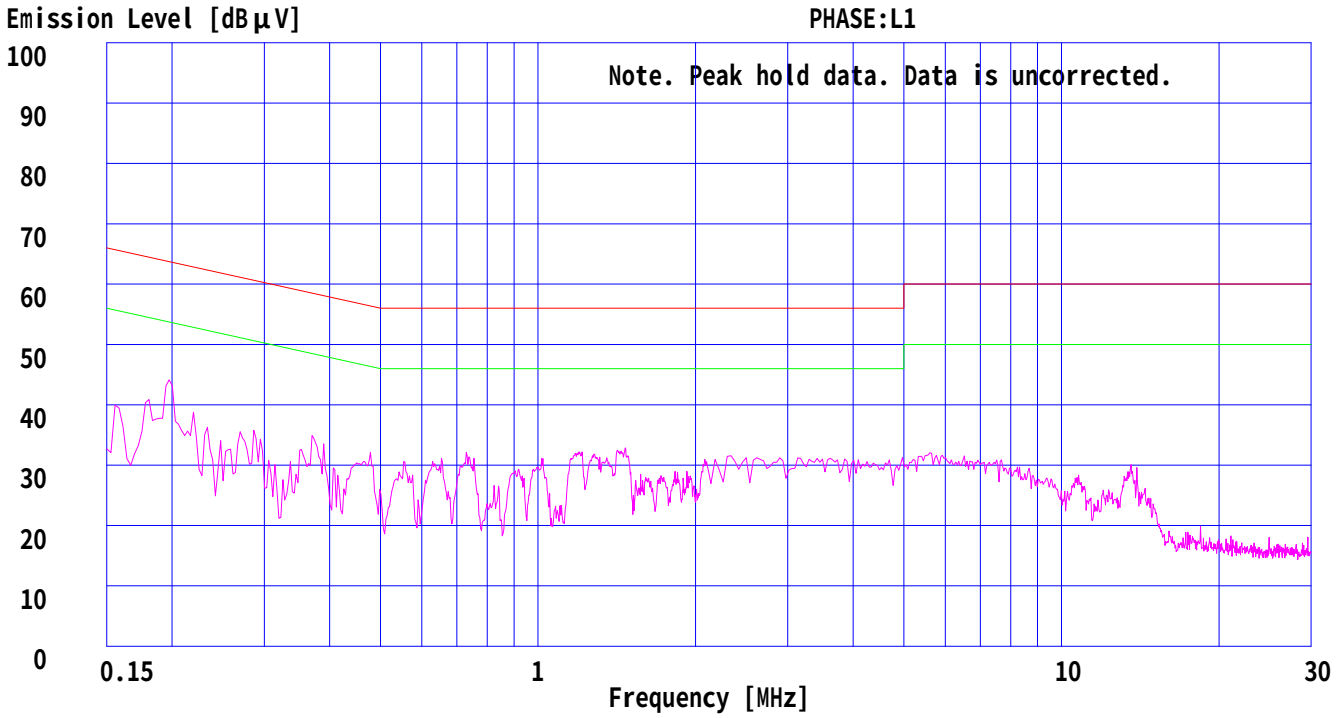


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: VCR Play		
Remarks	:		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **DVD Play**
Remarks :
Date : **7/27/2004**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer** : **Yuichi Kaneyama**
Humidity : **65 %**
Regulation : **FCC Part15 CLASS B(02-157)**

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dBμV]		[dBμV]		[dB]	
1.	0.1658	42.9	-	43.2	-	0.1	0.0	0.0	43.3	-	65.2	55.2	21.9	-
2.	0.2021	38.7	-	39.0	-	0.2	0.0	0.0	39.2	-	63.5	53.5	24.3	-
3.	0.6689	24.9	-	28.3	-	0.2	0.1	0.0	28.6	-	56.0	46.0	27.4	-
4.	1.3781	29.2	-	30.7	-	0.2	0.2	0.0	31.1	-	56.0	46.0	24.9	-
5.	2.7594	27.5	-	27.8	-	0.2	0.2	0.0	28.2	-	56.0	46.0	27.8	-
6.	10.5100	18.1	-	20.4	-	0.7	0.4	0.0	21.5	-	60.0	50.0	38.5	-

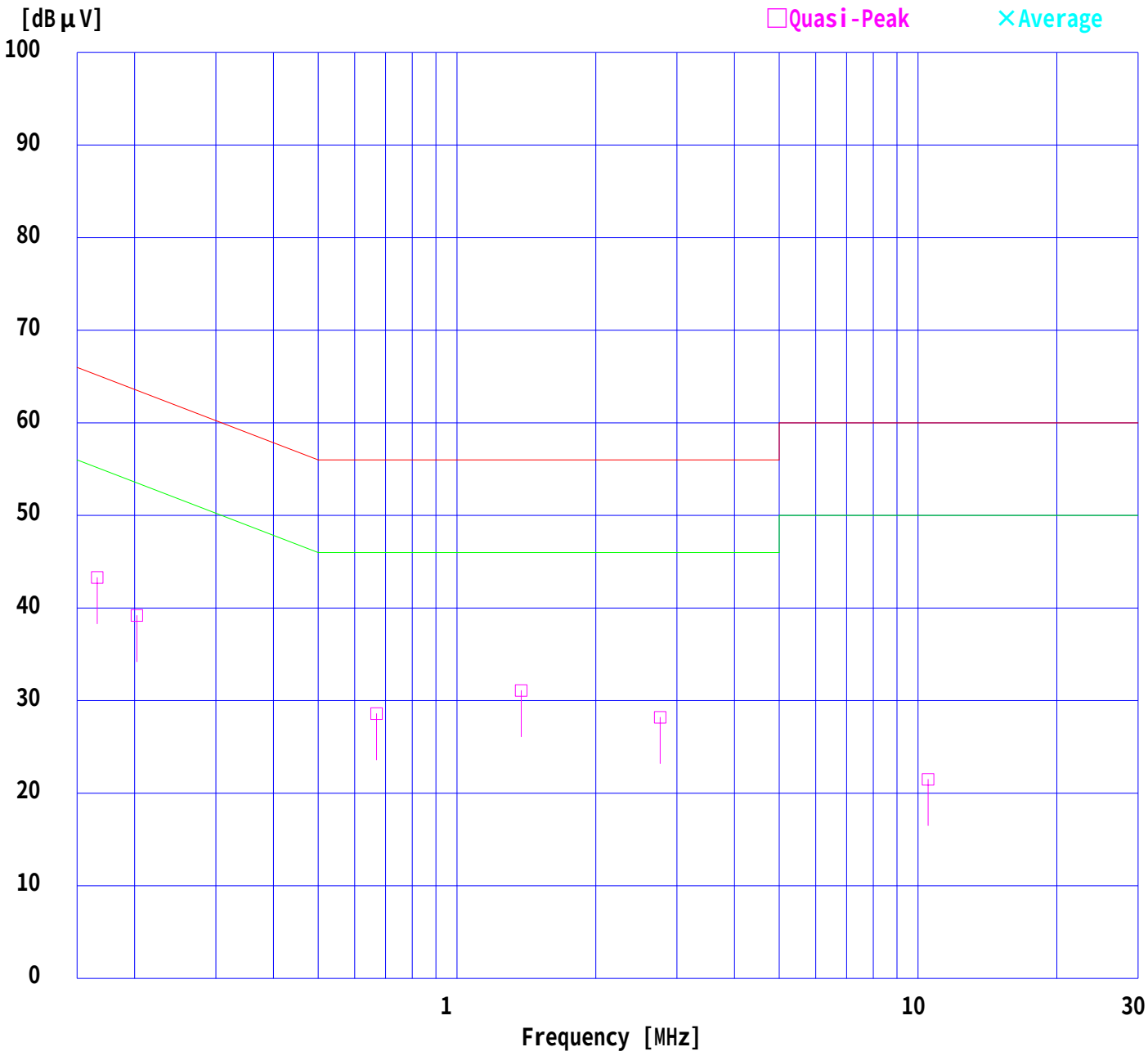
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

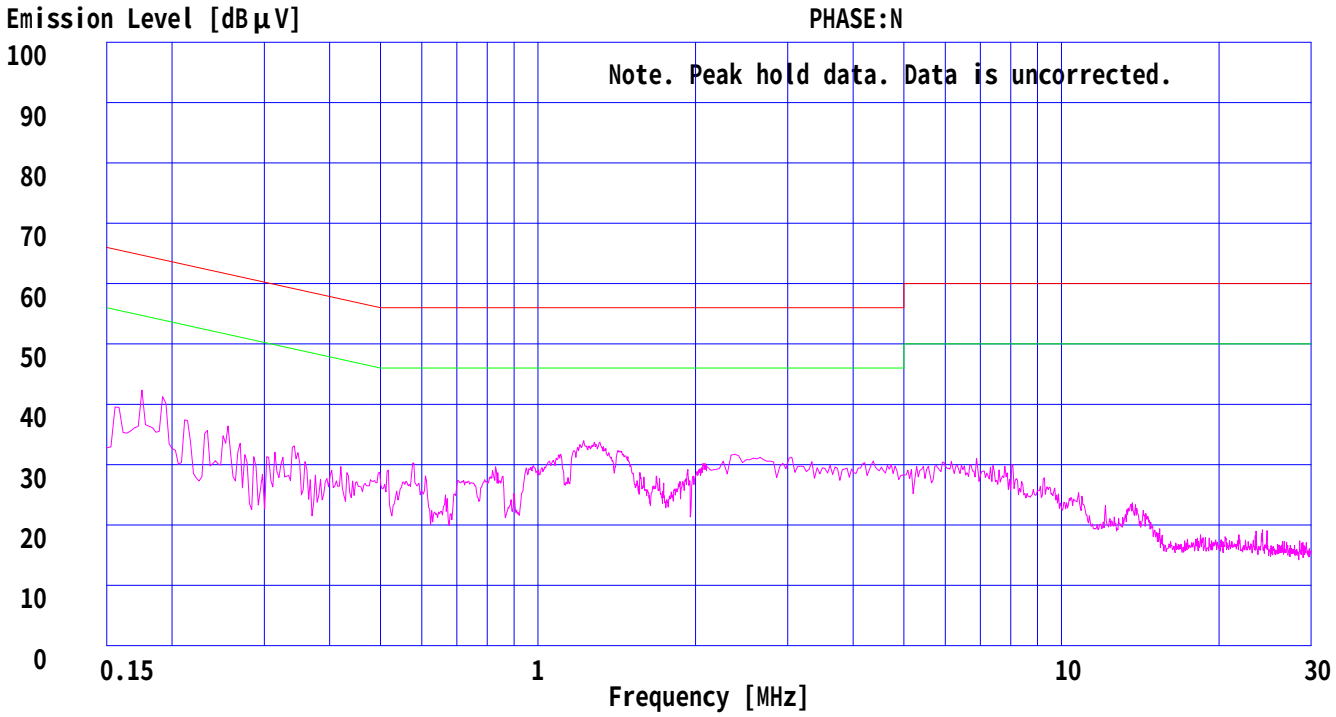
Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD Play		
Remarks	:		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation	: FCC Part15 CLASS B(02-157)		

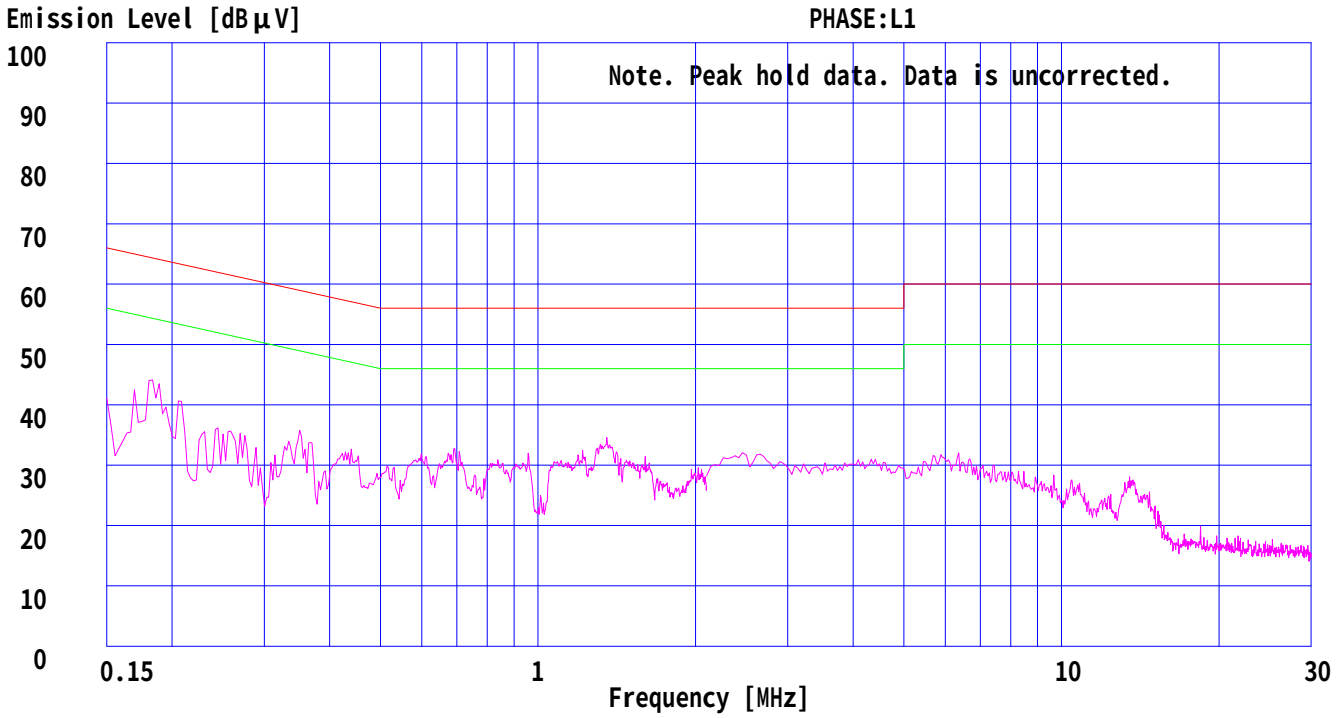


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD Play		
Remarks	:		
Date	: 7/27/2004		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Yuichi Kaneyama
Humidity	: 65 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.1 Open Test Site

COMPANY	: Orion Electric Co., Ltd.	REPORT No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGULATION	: FCC PART15 B
MODEL No.	: PV-D744S-A	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception+Rec.		1030-1694MHz 0dB
		DATE	: July 26, 2004
		TEMP./HUMID.	: 23℃/37%
		ENGINEER	: Seigo Kakehi

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
VHF										
2	101	24.6	24.8	BC	-11.5	13.1	13.3	43.5	30.4	30.2
	202	24.3	22.8	BC	-3.5	20.8	19.3	43.5	22.7	24.2
	303			LO	-5.7			46.0		
	404			LO	-2.2			46.0		
	505			LO	-0.4			46.0		
	606			LO	2.0			46.0	>15.0	
	707			LO	4.4			46.0		
	808			LO	5.3			46.0		
	909			LO	8.2			46.0		

	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1010					HO	-9.3					74.0	54.0				
1111					HO	-8.6					74.0	54.0				
1212					HO	-7.9					74.0	54.0				
1313					HO	-7.3					74.0	54.0	>27.0		>10.0	
1414					HO	-6.5					74.0	54.0				
1515					HO	-5.9					74.0	54.0				
1616					HO	-5.0					74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
3	107	25.1	28.2	BC	-10.5	14.6	17.7	43.5	28.9	25.8
	214	23.7	22.5	BC	-3.3	20.4	19.2	43.5	23.1	24.3
	321			LO	-5.1			46.0		
	428			LO	-1.8			46.0		
	535			LO	0.3			46.0		
	642			LO	2.9			46.0	＞15.0	
	749			LO	4.7			46.0		
	856			LO	6.8			46.0		
	963			LO	9.7			54.0		

	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1070					HO	-8.8					74.0	54.0				
1177					HO	-8.2					74.0	54.0				
1284					HO	-7.4					74.0	54.0				
1391					HO	-6.7					74.0	54.0	>27.0		>10.0	
1498					HO	-6.0					74.0	54.0				
1605					HO	-5.1					74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
4	113	24.4	25.1	BC	-9.4	15.0	15.7	43.5	28.5	27.8
	226			BC	-3.2			46.0		
	339			LO	-4.5			46.0		
	452			LO	-1.4			46.0		
	565			LO	1.0			46.0	＞15.0	
	678			LO	3.8			46.0		
	791			LO	5.0			46.0		
	904			LO	8.1			46.0		

	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1017					HO	-9.2					74.0	54.0				
1130					HO	-8.5					74.0	54.0				
1243					HO	-7.6					74.0	54.0				
1356					HO	-7.0					74.0	54.0	>27.0		>10.0	
1469					HO	-6.2					74.0	54.0				
1582					HO	-5.2					74.0	54.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.1 Open Test Site

COMPANY	: Orion Electric Co., Ltd.	REPORT No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGULATION	: FCC PART15 B
MODEL No.	: PV-D744S-A	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception+Rec.		1030-1694MHz 0dB
		DATE	: July 26, 2004
		TEMP./HUMID.	: 23℃/37%
		ENGINEER	: Seigo Kakehi

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	READINNG(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
VHF										
5	123	22.7	23.9	BC	-8.0	14.7	15.9	43.5	28.8	27.6
	246			BC	-2.9			46.0		
	369			LO	-3.3			46.0		
	492			LO	-0.7			46.0		
	615			LO	2.2			46.0	＞15.0	
	738			LO	4.6			46.0		
	861			LO	6.8			46.0		
	984			LO	10.4			54.0		

	READINNG(PK) HOR. [dBuV]	READINNG(PK) VER. [dBuV]	READINNG(AV) HOR. [dBuV]	READINNG(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1107					HO	-8.6					74.0	54.0				
1230					HO	-7.8					74.0	54.0				
1353					HO	-7.0					74.0	54.0	>27.0		>10.0	
1476					HO	-6.2					74.0	54.0				
1599					HO	-5.1					74.0	54.0				

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	READINNG(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
6	129	23.3	24.2	BC	-7.7	15.6	16.5	43.5	27.9	27.0
	258			BC	-2.3			46.0		
	387			LO	-2.7			46.0		
	516			LO	-0.1			46.0	＞15.0	
	645			LO	3.0			46.0		
	774			LO	4.9			46.0		
	903			LO	8.0			46.0		

	READINNG(PK) HOR. [dBuV]	READINNG(PK) VER. [dBuV]	READINNG(AV) HOR. [dBuV]	READINNG(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1032					HO	-9.1					74.0	54.0				
1161					HO	-8.2					74.0	54.0				
1290					HO	-7.4					74.0	54.0	>27.0		>10.0	
1419					HO	-6.5					74.0	54.0				
1548					HO	-5.6					74.0	54.0				
1677					HO	-4.5					74.0	54.0				

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	READINNG(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
7	221	24.5	22.6	BC	-3.3	21.2	19.3	46.0	24.8	26.7
	442			LO	-1.4			46.0		
	663			LO	3.5			46.0	＞15.0	
	884			LO	7.5			46.0		

	READINNG(PK) HOR. [dBuV]	READINNG(PK) VER. [dBuV]	READINNG(AV) HOR. [dBuV]	READINNG(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1105					HO	-8.6					74.0	54.0				
1326					HO	-7.1					74.0	54.0	>27.0		>10.0	
1547					HO	-5.6					74.0	54.0				

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	READINNG(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
8	227	22.6	22.0	BC	-3.2	19.4	18.8	46.0	26.6	27.2
	454			LO	-1.4			46.0		
	681			LO	3.9			46.0	>15.0	
	908			LO	8.2			46.0		

	READINNG(PK) HOR. [dBuV]	READINNG(PK) VER. [dBuV]	READINNG(AV) HOR. [dBuV]	READINNG(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1135					HO	-8.5					74.0	54.0				
1362					HO	-7.0					74.0	54.0	>27.0		>10.0	
1589					HO	-5.2					74.0	54.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.1 Open Test Site

COMPANY	: Orion Electric Co., Ltd.	REPORT No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGULATION	: FCC PART15 B
MODEL No.	: PV-D744S-A	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception+Rec.		1030-1694MHz 0dB
		DATE	: July 26, 2004
		TEMP./HUMID.	: 23℃/37%
		ENGINEER	: Seigo Kakehi

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	READINNG(QP) VER. [dBuV]	READINNG(PK) HOR. [dBuV]	READINNG(PK) VER. [dBuV]	READINNG(AV) HOR. [dBuV]	READINNG(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
VHF																								
9	233	22.5	22.0					BC	-3.2	19.3	18.8					46.0			26.7	27.2				
	466							LO	-1.2							46.0			＞15.0					
	699							LO	4.4							46.0								
	932							LO	8.9							46.0								
	1165							HO	-8.2							74.0		54.0	>27.0				>10.0	
	1398							HO	-6.7							74.0		54.0						
	1631							HO	-4.9							74.0		54.0						
10	239	22.7	22.4					BC	-3.0	19.7	19.4					46.0			26.3	26.6				
	478							LO	-0.9							46.0			＞15.0					
	717							LO	4.5							46.0								
	956							LO	9.6							46.0								
	1195							HO	-8.1							74.0		54.0	>27.0				>10.0	
	1434							HO	-6.4							74.0		54.0						
	1673							HO	-4.5							74.0		54.0						
11	245	22.4	22.0					BC	-2.9	19.5	19.1					46.0			26.5	26.9				
	490							LO	-0.7							46.0			＞15.0					
	735							LO	4.5							46.0								
	980							LO	10.3							54.0								
	1225							HO	-7.8							74.0		54.0	>27.0				>10.0	
	1470							HO	-6.2							74.0		54.0						
12	251	21.9	21.8					BC	-2.8	19.1	19.0					46.0			26.9	27.0				
	502							LO	-0.5							46.0			＞15.0					
	753							LO	4.7							46.0								
	1004							HO	-9.3							74.0		54.0	>27.0				>10.0	
	1255							HO	-7.6							74.0		54.0						
	1506							HO	-6.0							74.0		54.0						
13	257	22.5	23.6					BC	-2.4	20.1	21.2					46.0			25.9	24.8				
	514							LO	-0.2							46.0			＞15.0					
	771							LO	4.8							46.0								
	1028							HO	-9.2							74.0		54.0	>27.0				>10.0	
	1285							HO	-7.4							74.0		54.0						
	1542							HO	-5.6							74.0		54.0						

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.1 Open Test Site

COMPANY	: Orion Electric Co., Ltd.	REPORT No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGULATION	: FCC PART15 B
MODEL No.	: PV-D744S-A	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception+Rec.		1030-1694MHz 0dB
		DATE	: July 26, 2004
		TEMP./HUMID.	: 23℃/37%
		ENGINEER	: Seigo Kakehi

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]	
UHF														
14	517	23.9	30.8		LO	-0.1	23.8	30.7		46.0		22.2	15.3	
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB] VER. [dB]
	1034				HO	-9.1				74.0	54.0	>27.0		>10.0
	1551				HO	-5.5				74.0	54.0			
CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]	
19	547	23.9	29.1		LO	0.7	24.6	29.8		46.0		21.4	16.2	
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB] VER. [dB]
	1094				HO	-8.6				74.0	54.0	>27.0		>10.0
	1641				HO	-4.8				74.0	54.0			
CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]	
28	601	23.6	26.9		LO	1.9	25.5	28.8		46.0	-	20.5	17.2	
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB] VER. [dB]
	1202				HO	-8.0				74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]	
36	649	23.2	25.1		LO	3.2	26.4	28.3		46.0	-	19.6	17.7	
		READINNG(PK) HOR. [dBuV]	#NAME? VER. [dBuV]	READINNG(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB] VER. [dB]
	1298				HO	-7.4				74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]	
44	697	24.4	24.5		LO	4.3	28.7	28.8		46.0	-	17.3	17.2	
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB] VER. [dB]
	1394				HO	-6.7				74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]	
53	751	24.8	23.9		LO	4.7	29.5	28.6		46.0	-	16.5	17.4	
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB] VER. [dB]
	1502				HO	-6.0				74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]	
61	799	22.1	22.1		LO	5.0	27.1	27.1		46.0	-	18.9	18.9	
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB] VER. [dB]
	1598				HO	-5.1				74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]	
69	847	24.2	23.8		LO	6.4	30.6	30.2		46.0	-	15.4	15.8	
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB] VER. [dB]
	1694				HO	-4.2				74.0	54.0	>27.0		>10.0

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.1 Open Test Site

COMPANY	: Orion Electric Co., Ltd.	REPORT No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGULATION	: FCC PART15 B
MODEL No.	: PV-D744S-A	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception+Rec.		1030-1694MHz 0dB
		DATE	: July 26, 2004
		TEMP./HUMID.	: 23℃/37%
		ENGINEER	: Seigo Kakehi

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]
CATV										
1	119	23.2	24.0	BC	-8.5	14.7	15.5	43.5	28.8	28.0
	238			BC	-3.0			46.0		
	357			LO	-3.7			46.0		
	476			LO	-1.0			46.0		
	595			LO	1.7			46.0	>15.0	
	714			LO	4.4			46.0		
	833			LO	6.1			46.0		
	952			LO	9.5			46.0		

		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1071					HO	-8.8					74.0	54.0				
	1190					HO	-8.1					74.0	54.0				
	1309					HO	-7.3					74.0	54.0	>27.0		>10.0	
	1428					HO	-6.4					74.0	54.0				
	1547					HO	-5.6					74.0	54.0				
	1666					HO	-4.5					74.0	54.0				

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]
95	137	23.5	22.5	BC	-7.1	16.4	15.4	43.5	27.1	28.1
	274			BC	-1.2			46.0		
	411			LO	-2.1			46.0		
	548			LO	0.7			46.0		
	685			LO	4.0			46.0	>15.0	
	822			LO	5.7			46.0		
	959			LO	9.6			46.0		

		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1096					HO	-8.6					74.0	54.0				
	1233					HO	-7.8					74.0	54.0				
	1370					HO	-6.8					74.0	54.0	>27.0		>10.0	
	1507					HO	-6.0					74.0	54.0				
	1644					HO	-4.8					74.0	54.0				

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]
97	149	22.8	23.5	BC	-6.4	16.4	17.1	43.5	27.1	26.4
	298			BC	0.5			46.0		
	447			LO	-1.5			46.0		
	596			LO	1.7			46.0	>15.0	
	745			LO	4.7			46.0		
	894			LO	7.8			46.0		

		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1043					HO	-9.1			-	-	74.0	54.0				
	1192					HO	-8.1			-	-	74.0	54.0				
	1341					HO	-7.1			-	-	74.0	54.0	>27.0		>10.0	
	1490					HO	-6.1			-	-	74.0	54.0				
	1639					HO	-4.8			-	-	74.0	54.0				

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]
99	161	22.7	22.7	BC	-5.9	16.8	16.8	43.5	26.7	26.7
	322			LO	-5.1			46.0		
	483			LO	-0.8			46.0		
	644			LO	3.0			46.0	>15.0	
	805			LO	5.2			46.0		
	966			LO	9.9			46.0		

		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1127					HO	-8.5					74.0	54.0				
	1288					HO	-7.4					74.0	54.0	>27.0		>10.0	
	1449					HO	-6.3					74.0	54.0				
	1610					HO	-5.0					74.0	54.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.1 Open Test Site

COMPANY	: Orion Electric Co., Ltd.	REPORT No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGULATION	: FCC PART15 B
MODEL No.	: PV-D744S-A	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception+Rec.		1030-1694MHz 0dB
		DATE	: July 26, 2004
		TEMP./HUMID.	: 23℃/37%
		ENGINEER	: Seigo Kakehi

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
CATV																	
14	167	22.5	22.8			BC	-5.5	17.0	17.3			43.5		26.5	26.2		
	334					LO	-4.6					46.0		>15.0			
	501					LO	-0.5					46.0					
	668					LO	3.6					46.0					
	835					LO	6.1					46.0					
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1002					HO	-9.3					74.0	54.0	>27.0		>10.0	
	1169					HO	-8.2					74.0	54.0				
	1336					HO	-7.1					74.0	54.0				
	1503					HO	-6.0					74.0	54.0				
	1670					HO	-4.5					74.0	54.0				
CH.	FREQ [MHz]	READINNG(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
18	191	22.8	22.6			BC	-3.9	18.9	18.7			43.5		24.6	24.8		
	382					LO	-2.8					46.0		>15.0			
	573					LO	1.2					46.0					
	764					LO	4.8					46.0					
	955					LO	9.6					46.0					
		READINNG(PK) HOR. [dBuV]	VER. [dBuV]	READINNG(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1146					HO	-8.4					74.0	54.0	>27.0		>10.0	
	1337					HO	-7.1					74.0	54.0				
	1528					HO	-5.7					74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
22	215	25.1	22.4			BC	-3.3	21.8	19.1			43.5		21.7	24.4		
	430					LO	-1.7					46.0		>15.0			
	645					LO	3.0					46.0					
	860					LO	6.8					46.0					
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1075					HO	-8.7					74.0	54.0	>27.0		>10.0	
	1290					HO	-7.4					74.0	54.0				
	1505					HO	-6.0					74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
23	263	22.4	22.3			BC	-1.9	20.5	20.4			46.0	46.0	25.5	25.6		
	526					LO	0.2					46.0	46.0				
	789					LO	4.9					46.0	46.0				
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1052					HO	-9.0					74.0	54.0	>27.0		>10.0	
	1315					HO	-7.3					74.0	54.0				
	1578					HO	-5.3					74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
29	299	21.9	22.1			BC	0.5	22.4	22.6			46.0	46.0	23.6	23.4		
	598					LO	1.9					46.0	46.0	>15.0			
	897					LO	7.8					46.0	46.0				
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1196					HO	-8.1					74.0	54.0	>27.0		>10.0	
	1495					HO	-6.0					74.0	54.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.1 Open Test Site

COMPANY	: Orion Electric Co., Ltd.	REPORT No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGULATION	: FCC PART15 B
MODEL No.	: PV-D744S-A	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception+Rec.		1030-1694MHz 0dB
		DATE	: July 26, 2004
		TEMP./HUMID.	: 23℃/37%
		ENGINEER	: Seigo Kakehi

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
CATV																	
36	341	22.9	23.4			LO	-4.4	18.5	19.0			46.0	46.0	27.5	27.0		
	682					LO	3.9					46.0	46.0	>15.0			
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1023					HO	-9.2					74.0	54.0	>27.0		>10.0	
	1364					HO	-7.0					74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER.		
37	347	22.5	22.2			LO	-4.2	18.3	18.0			46.0	46.0	27.7	28.0		
	694					LO	4.2					46.0	46.0	>15.0			
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1041					HO	-9.1					74.0	54.0	>27.0		>10.0	
	1388					HO	-6.7					74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER.		
65	515	22.3	22.4			LO	-0.2	22.1	22.2			46.0	46.0	23.9	23.8		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1030					HO	-9.2					74.0	54.0	>27.0		>10.0	
	1545					HO	-5.6					74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER.		
94	689	21.8	21.8			LO	4.1	25.9	25.9			46.0	46.0	20.1	20.1		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1378					HO	-6.8					74.0	54.0	＞27.0		＞10.0	
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER.		
100	695	21.2	21.3			LO	4.2	25.4	25.5			46.0	46.0	20.6	20.5		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1390					HO	-6.7					74.0	54.0	＞27.0		＞10.0	
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER.		
113	773	20.2	20.1			LO	4.9	25.1	25.0			46.0	46.0	20.9	21.0		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1546					HO	-5.6					74.0	54.0	＞27.0		＞10.0	
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER.		
125	845	22.1	22.3			LO	6.4	28.5	28.7			46.0	46.0	17.5	17.3		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1690					HO	-4.3					74.0	54.0	＞27.0		＞10.0	

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **TV Reception+Rec.**
Remarks : **25dBmV**
Date : **7/26/2004**
Test Distance : **3 m**
Temperature : **23 ℃** **Engineer : Seigo Kakehi**
Humidity : **37 %**
Regulation : **FCC Part15B CLASS B**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	69.99	BB	34.4	33.0	6.4	29.9	1.9	5.8	18.6	17.2	40.0	21.4	22.8
2.	120.00	BB	42.8	31.0	13.2	29.9	2.6	5.8	34.5	22.7	43.5	9.0	20.8
3.	134.99	BB	41.0	35.8	14.1	29.9	2.8	5.8	33.8	28.6	43.5	9.7	14.9
4.	192.00	BB	25.1	24.5	16.7	29.9	3.5	5.8	21.2	20.6	43.5	22.3	22.9
5.	200.45	BB	33.1	28.6	17.1	30.0	3.6	5.8	29.6	25.1	43.5	13.9	18.4
6.	202.50	BB	40.8	31.9	17.1	30.0	3.6	5.8	37.3	28.4	43.5	6.2	15.1
7.	215.99	BB	40.5	36.2	17.1	30.0	3.8	5.8	37.2	32.9	43.5	6.3	10.6
8.	219.99	BB	33.1	30.2	17.1	30.0	3.8	5.8	29.8	26.9	46.0	16.2	19.1
9.	270.02	BB	31.1	29.2	18.3	30.0	4.5	5.8	29.7	27.8	46.0	16.3	18.2
10.	324.00	BB	33.7	31.3	14.2	30.0	5.0	5.8	28.7	26.3	46.0	17.3	19.7

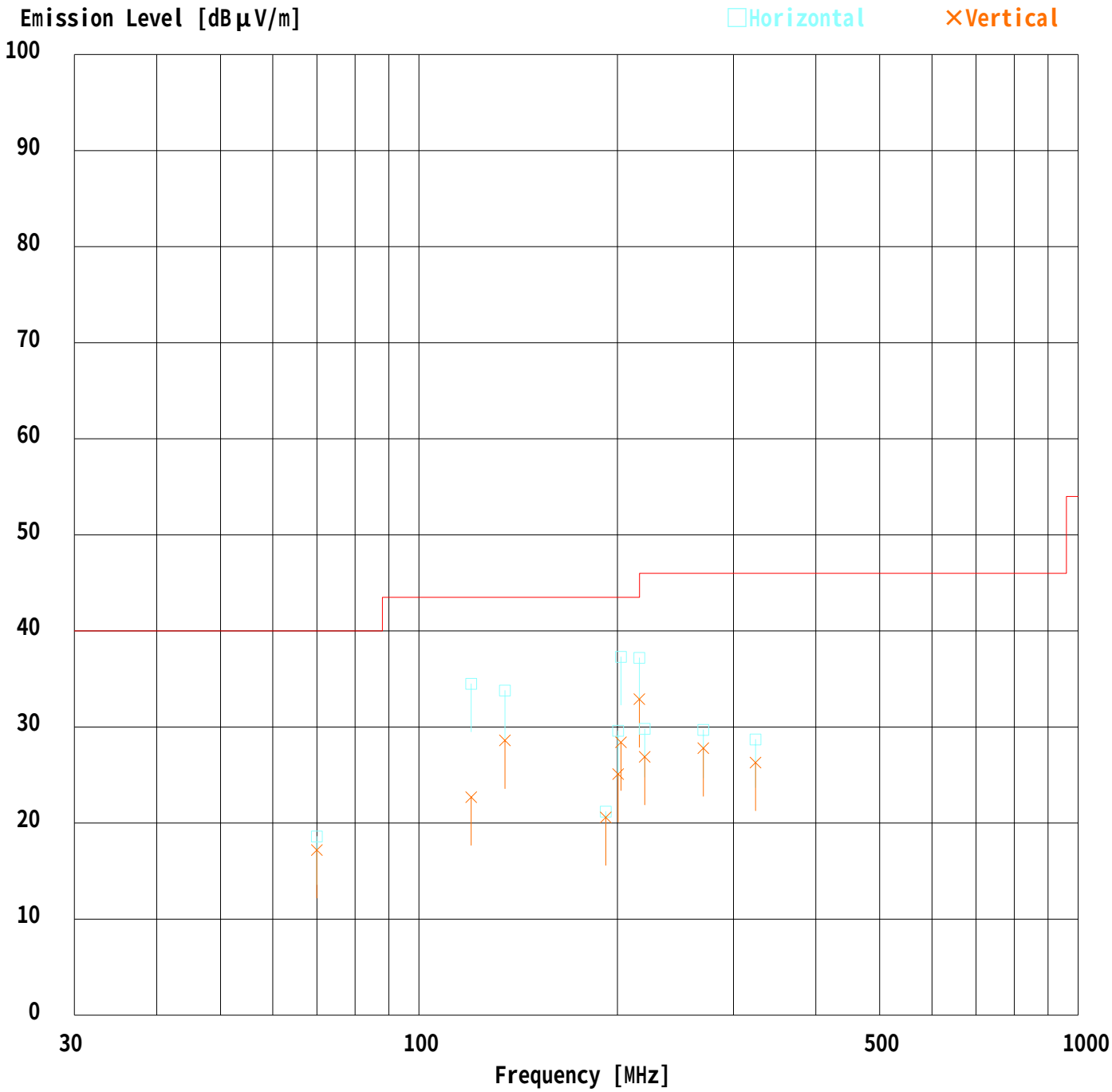
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec.		
Remarks	: 25dBmV		
Date	: 7/26/2004		
Test Distance	: 3 m		
Temperature	: 23 ℃	Engineer	: Seigo Kakehi
Humidity	: 37 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **TV Reception+Rec.**
Remarks : **0dBmV**
Date : **7/26/2004**
Test Distance : **3 m**
Temperature : **23 ℃** **Engineer : Seigo Kakehi**
Humidity : **37 %**
Regulation : **FCC Part15B CLASS B**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	202.50	BB	40.2	31.9	17.1	30.0	3.6	5.8	36.7	28.4	43.5	6.8	15.1
2.	215.99	BB	40.5	35.6	17.1	30.0	3.8	5.8	37.2	32.3	43.5	6.3	11.2

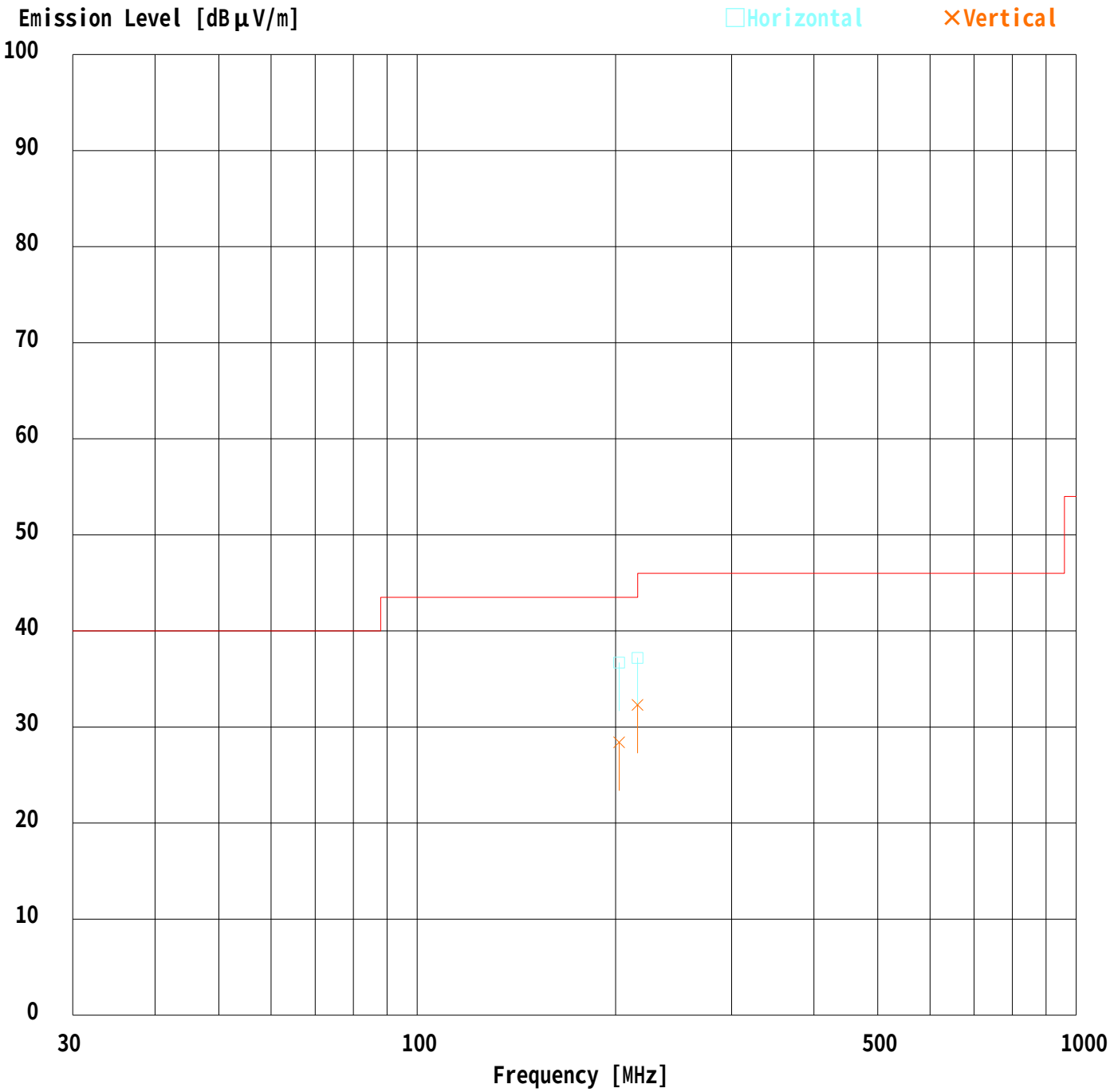
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec.		
Remarks	: 0dBmV		
Date	: 7/26/2004		
Test Distance	: 3 m		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 37 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input 1+Rec**
Remarks : **5Vp-p**
Date : **7/26/2004**
Test Distance : **3 m**
Temperature : **23 ℃** **Engineer : Seigo Kakehi**
Humidity : **37 %**
Regulation : **FCC Part15B CLASS B**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	70.01	BB	38.3	37.5	6.4	29.9	1.9	5.8	22.5	21.7	40.0	17.5	18.3
2.	120.00	BB	36.2	39.2	13.2	29.9	2.6	5.8	27.9	30.9	43.5	15.6	12.6
3.	134.99	BB	35.2	40.0	14.1	29.9	2.8	5.8	28.0	32.8	43.5	15.5	10.7
4.	192.00	BB	25.4	27.1	16.7	29.9	3.5	5.8	21.5	23.2	43.5	22.0	20.3
5.	200.46	BB	33.0	28.5	17.1	30.0	3.6	5.8	29.5	25.0	43.5	14.0	18.5
6.	202.50	BB	39.3	34.0	17.1	30.0	3.6	5.8	35.8	30.5	43.5	7.7	13.0
7.	215.99	BB	40.2	36.7	17.1	30.0	3.8	5.8	36.9	33.4	43.5	6.6	10.1
8.	219.99	BB	31.8	30.8	17.1	30.0	3.8	5.8	28.5	27.5	46.0	17.5	18.5
9.	270.02	BB	30.1	29.1	18.3	30.0	4.5	5.8	28.7	27.7	46.0	17.3	18.3
10.	324.00	BB	34.5	37.4	14.2	30.0	5.0	5.8	29.5	32.4	46.0	16.5	13.6

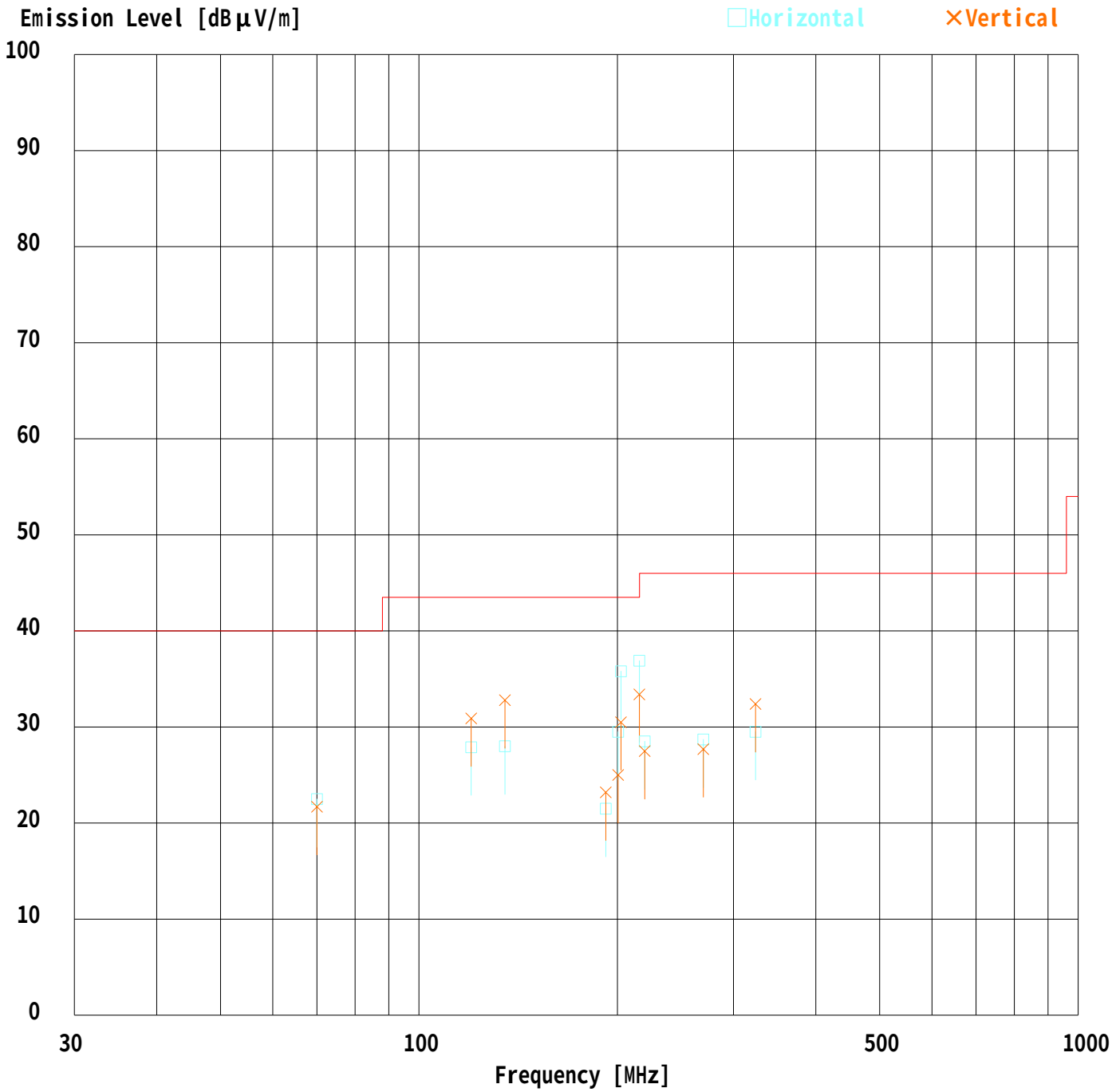
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 1+Rec		
Remarks	: 5Vp-p		
Date	: 7/26/2004		
Test Distance	: 3 m		
Temperature	: 23 ℃	Engineer	: Seigo Kakehi
Humidity	: 37 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input 1+Rec**
Remarks : **1Vp-p**
Date : **7/26/2004**
Test Distance : **3 m**
Temperature : **23 ℃** **Engineer : Seigo Kakehi**
Humidity : **37 %**
Regulation : **FCC Part15B CLASS B**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	202.50	BB	39.0	33.5	17.1	30.0	3.6	5.8	35.5	30.0	43.5	8.0	13.5
2.	215.99	BB	40.2	36.1	17.1	30.0	3.8	5.8	36.9	32.8	43.5	6.6	10.7

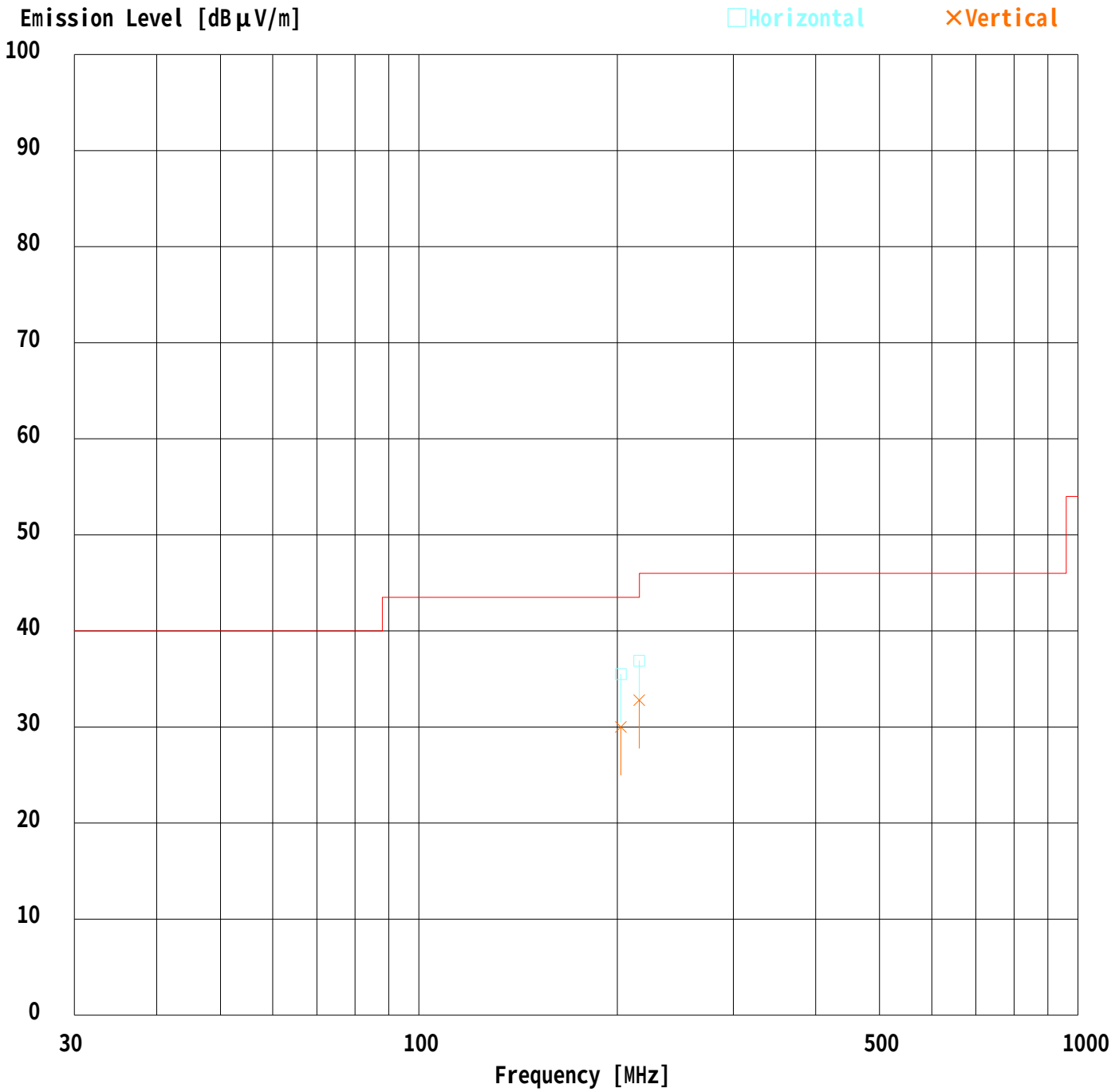
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 1+Rec		
Remarks	: 1Vp-p		
Date	: 7/26/2004		
Test Distance	: 3 m		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 37 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input 2+Rec**
Remarks : **5Vp-p**
Date : **7/26/2004**
Test Distance : **3 m**
Temperature : **23 ℃** **Engineer : Seigo Kakehi**
Humidity : **37 %**
Regulation : **FCC Part15B CLASS B**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	70.01	BB	36.3	37.2	6.4	29.9	1.9	5.8	20.5	21.4	40.0	19.5	18.6
2.	120.00	BB	28.0	30.7	13.2	29.9	2.6	5.8	19.7	22.4	43.5	23.8	21.1
3.	134.99	BB	36.7	35.2	14.1	29.9	2.8	5.8	29.5	28.0	43.5	14.0	15.5
4.	192.00	BB	23.2	23.6	16.7	29.9	3.5	5.8	19.3	19.7	43.5	24.2	23.8
5.	200.46	BB	32.8	28.8	17.1	30.0	3.6	5.8	29.3	25.3	43.5	14.2	18.2
6.	202.50	BB	39.2	35.7	17.1	30.0	3.6	5.8	35.7	32.2	43.5	7.8	11.3
7.	215.99	BB	38.2	36.2	17.1	30.0	3.8	5.8	34.9	32.9	43.5	8.6	10.6
8.	219.99	BB	31.8	29.9	17.1	30.0	3.8	5.8	28.5	26.6	46.0	17.5	19.4
9.	270.02	BB	30.3	30.0	18.3	30.0	4.5	5.8	28.9	28.6	46.0	17.1	17.4
10.	324.00	BB	34.4	38.2	14.2	30.0	5.0	5.8	29.4	33.2	46.0	16.6	12.8

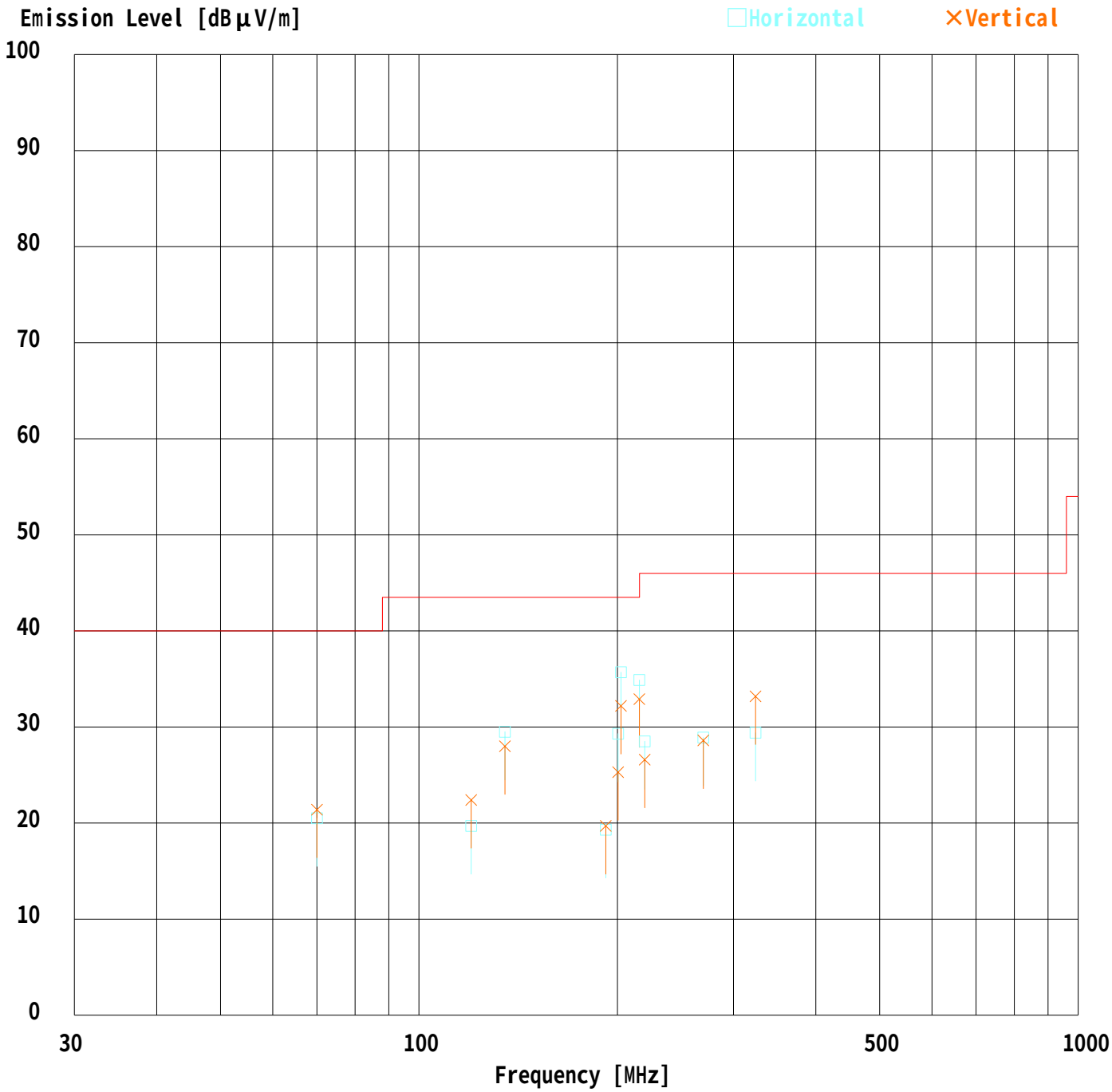
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 2+Rec		
Remarks	: 5Vp-p		
Date	: 7/26/2004		
Test Distance	: 3 m		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 37 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input 2+Rec**
Remarks : **1Vp-p**
Date : **7/26/2004**
Test Distance : **3 m**
Temperature : **23 ℃** **Engineer : Seigo Kakehi**
Humidity : **37 %**
Regulation : **FCC Part15B CLASS B**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	202.50	BB	39.9	33.7	17.1	30.0	3.6	5.8	36.4	30.2	43.5	7.1	13.3
2.	215.99	BB	37.7	35.9	17.1	30.0	3.8	5.8	34.4	32.6	43.5	9.1	10.9

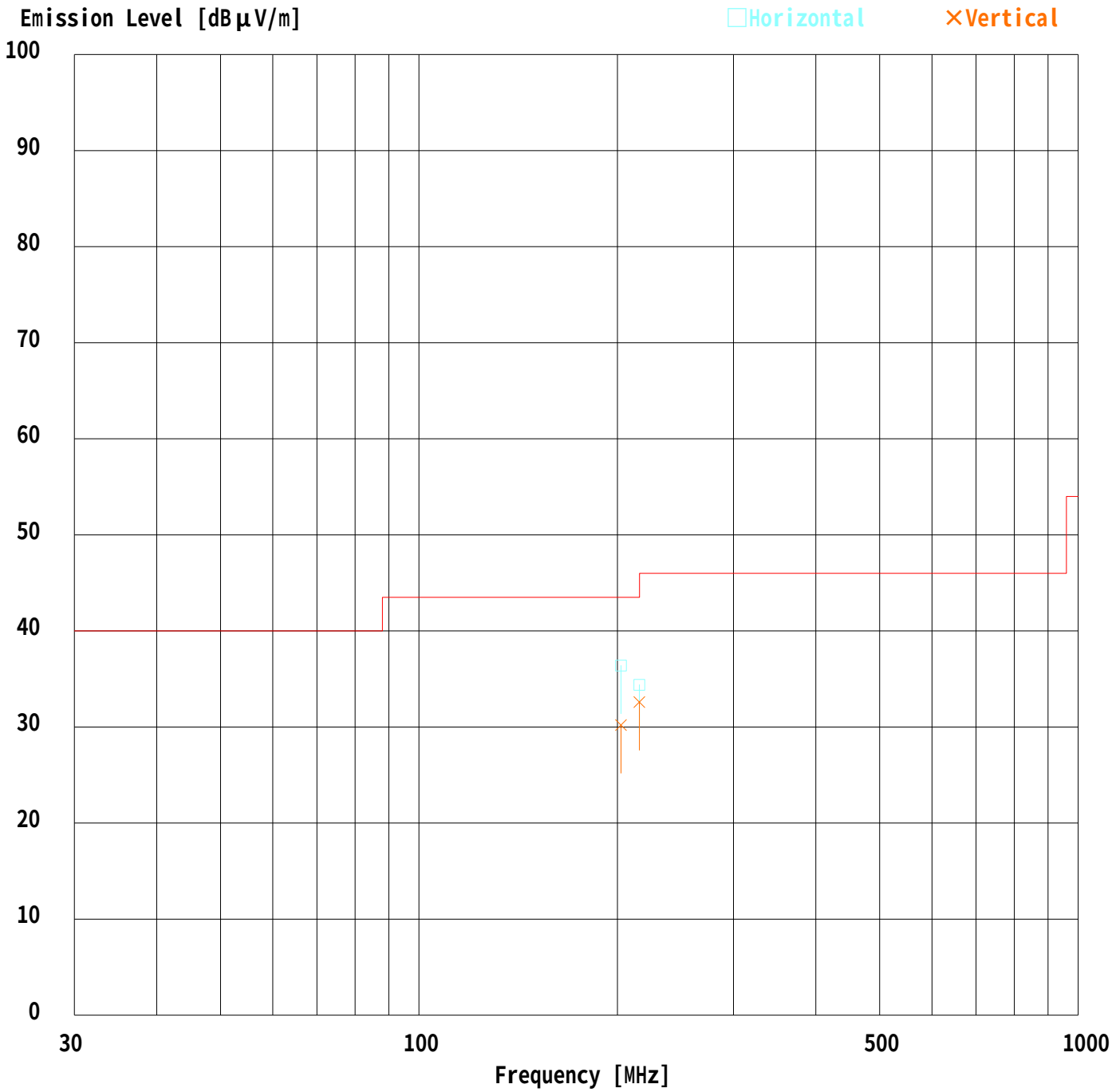
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input 2+Rec		
Remarks	: 1Vp-p		
Date	: 7/26/2004		
Test Distance	: 3 m		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 37 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **VCR Play**
Remarks :
Date : **7/26/2004**
Test Distance : **3 m**
Temperature : **23 ℃** **Engineer : Seigo Kakehi**
Humidity : **37 %**
Regulation : **FCC Part15B CLASS B**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	70.01	BB	36.1	28.6	6.4	29.9	1.9	5.8	20.3	12.8	40.0	19.7	27.2
2.	120.00	BB	30.3	29.6	13.2	29.9	2.6	5.8	22.0	21.3	43.5	21.5	22.2
3.	134.99	BB	38.7	35.9	14.1	29.9	2.8	5.8	31.5	28.7	43.5	12.0	14.8
4.	192.00	BB	23.3	23.2	16.7	29.9	3.5	5.8	19.4	19.3	43.5	24.1	24.2
5.	200.46	BB	35.7	30.5	17.1	30.0	3.6	5.8	32.2	27.0	43.5	11.3	16.5
6.	202.50	BB	40.2	33.5	17.1	30.0	3.6	5.8	36.7	30.0	43.5	6.8	13.5
7.	215.99	BB	39.0	33.3	17.1	30.0	3.8	5.8	35.7	30.0	43.5	7.8	13.5
8.	219.99	BB	30.3	26.6	17.1	30.0	3.8	5.8	27.0	23.3	46.0	19.0	22.7
9.	270.02	BB	29.6	28.5	18.3	30.0	4.5	5.8	28.2	27.1	46.0	17.8	18.9
10.	324.00	BB	32.9	30.5	14.2	30.0	5.0	5.8	27.9	25.5	46.0	18.1	20.5

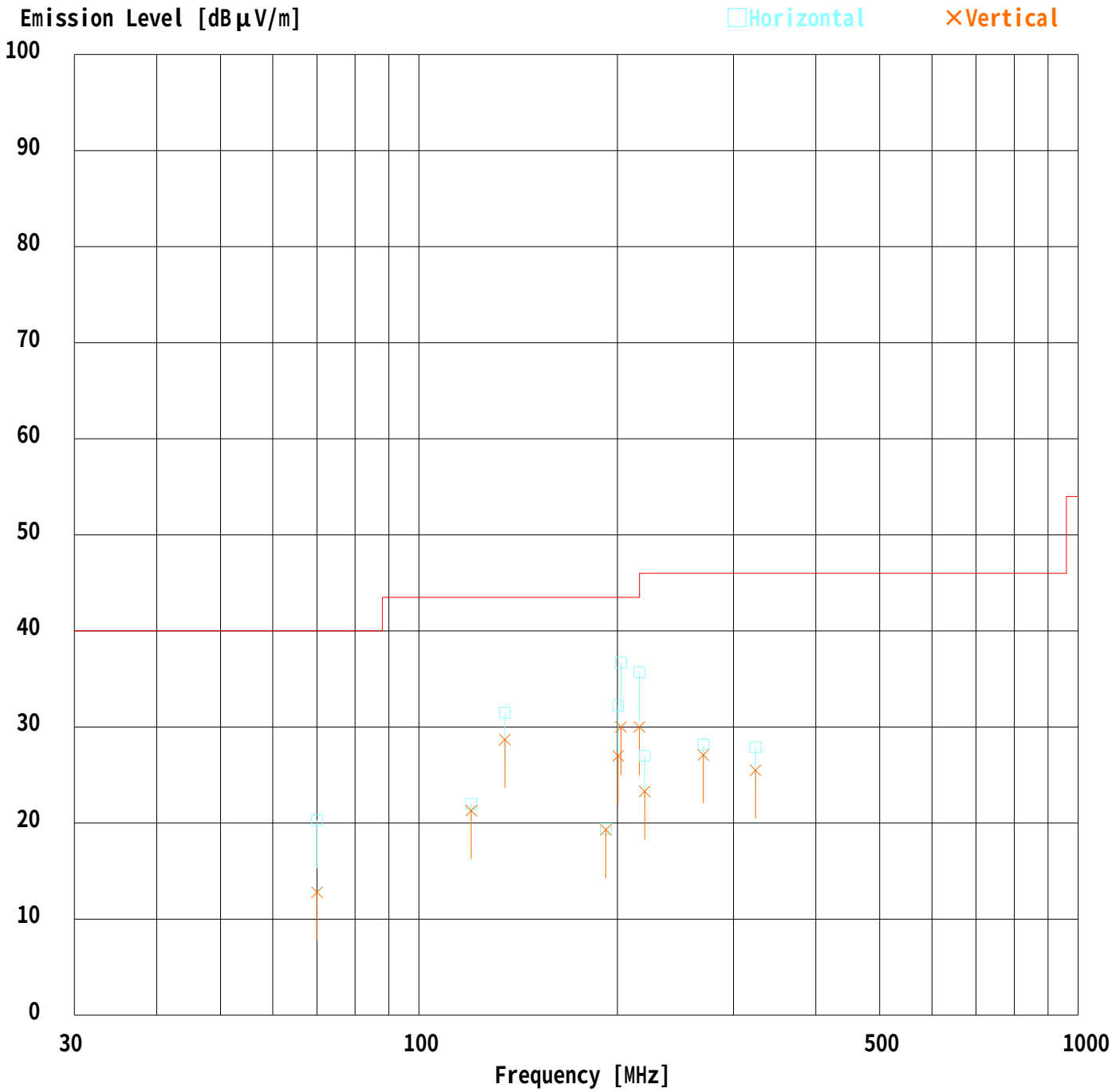
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: VCR Play		
Remarks	:		
Date	: 7/26/2004		
Test Distance	: 3 m		
Temperature	: 23 ℃	Engineer	: Seigo Kakehi
Humidity	: 37 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **DVD Play**
Remarks :
Date : **7/26/2004**
Test Distance : **3 m**
Temperature : **23 ℃** **Engineer : Seigo Kakehi**
Humidity : **37 %**
Regulation : **FCC Part15B CLASS B**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	72.01	BB	38.3	41.5	6.3	29.9	2.0	5.8	22.5	25.7	40.0	17.5	14.3
2.	120.01	BB	35.0	35.2	13.2	29.9	2.6	5.8	26.7	26.9	43.5	16.8	16.6
3.	135.01	BB	36.9	36.5	14.1	29.9	2.8	5.8	29.7	29.3	43.5	13.8	14.2
4.	192.00	BB	29.6	27.2	16.7	29.9	3.5	5.8	25.7	23.3	43.5	17.8	20.2
5.	200.45	BB	35.6	31.0	17.1	30.0	3.6	5.8	32.1	27.5	43.5	11.4	16.0
6.	202.50	BB	37.9	31.7	17.1	30.0	3.6	5.8	34.4	28.2	43.5	9.1	15.3
7.	215.99	BB	37.0	30.9	17.1	30.0	3.8	5.8	33.7	27.6	43.5	9.8	15.9
8.	219.99	BB	30.8	26.7	17.1	30.0	3.8	5.8	27.5	23.4	46.0	18.5	22.6
9.	270.02	BB	36.2	29.5	18.3	30.0	4.5	5.8	34.8	28.1	46.0	11.2	17.9
10.	324.00	BB	31.9	34.9	14.2	30.0	5.0	5.8	26.9	29.9	46.0	19.1	16.1

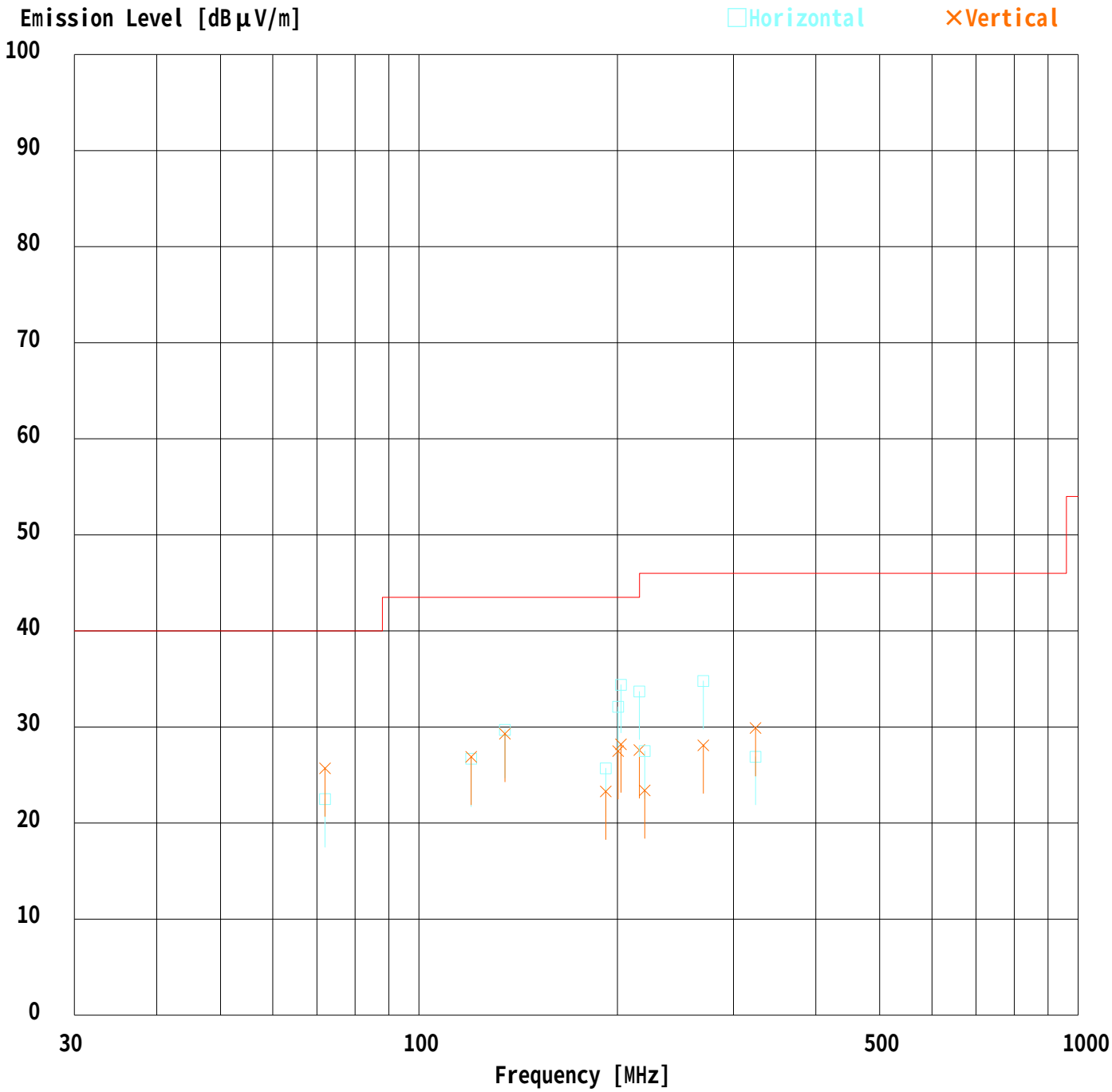
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD Play		
Remarks	:		
Date	: 7/26/2004		
Test Distance	: 3 m		
Temperature	: 23 ℃	Engineer	: Seigo Kakehi
Humidity	: 37 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **DVD Play**
Remarks :
Date : **7/27/2004**
Test Distance : **3 m**
Temperature : **24 ℃** **Engineer : Tsubasa Takayama**
Humidity : **67 %**
Regulation : **FCC Part15B CLASS B(Peak Limit / Upper1GHz)**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1020.96	BB	48.1	52.5	25.0	35.4	2.6	0.0	40.3	44.7	74.0	33.7	29.3
2.	1079.72	BB	47.7	51.8	25.3	35.3	2.7	0.0	40.4	44.5	74.0	33.6	29.5
3.	1147.36	BB	46.9	49.4	25.6	35.3	2.8	0.0	40.0	42.5	74.0	34.0	31.5
4.	1289.90	BB	46.1	49.2	26.3	35.1	3.0	0.0	40.3	43.4	74.0	33.7	30.6

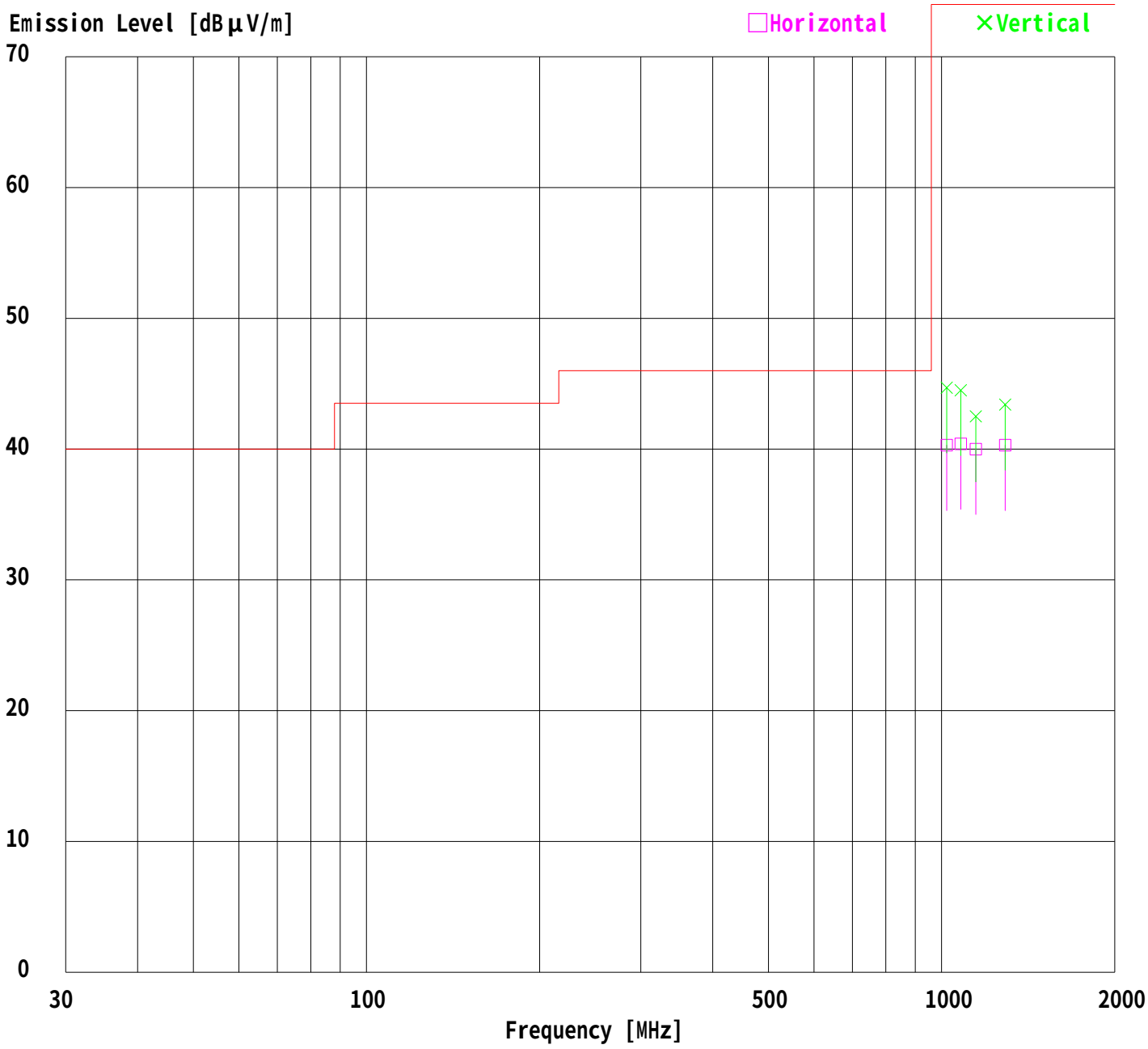
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD Play		
Remarks	:		
Date	: 7/27/2004		
Test Distance	: 3 m		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 67 %		
Regulation	: FCC Part15B CLASS B(Peak Limit / Upper1GHz)		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant : **Orion Electric Co., Ltd.**
Kind of Equipment : **DVD/VCR**
Model No. : **PV-D744S-A**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **DVD Play**
Remarks :
Date : **7/27/2004**
Test Distance : **3 m**
Temperature : **24 ℃** **Engineer : Tsubasa Takayama**
Humidity : **67 %**
Regulation : **FCC Part15B CLASS B(Average Limit / Upper1GHz)**

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1020.96	BB	35.5	38.7	25.0	35.4	2.6	0.0	27.7	30.9	54.0	26.3	23.1
2.	1079.72	BB	38.8	44.0	25.3	35.3	2.7	0.0	31.5	36.7	54.0	22.5	17.3
3.	1147.36	BB	33.7	34.3	25.6	35.3	2.8	0.0	26.8	27.4	54.0	27.2	26.6
4.	1289.90	BB	32.9	34.4	26.3	35.1	3.0	0.0	27.1	28.6	54.0	26.9	25.4

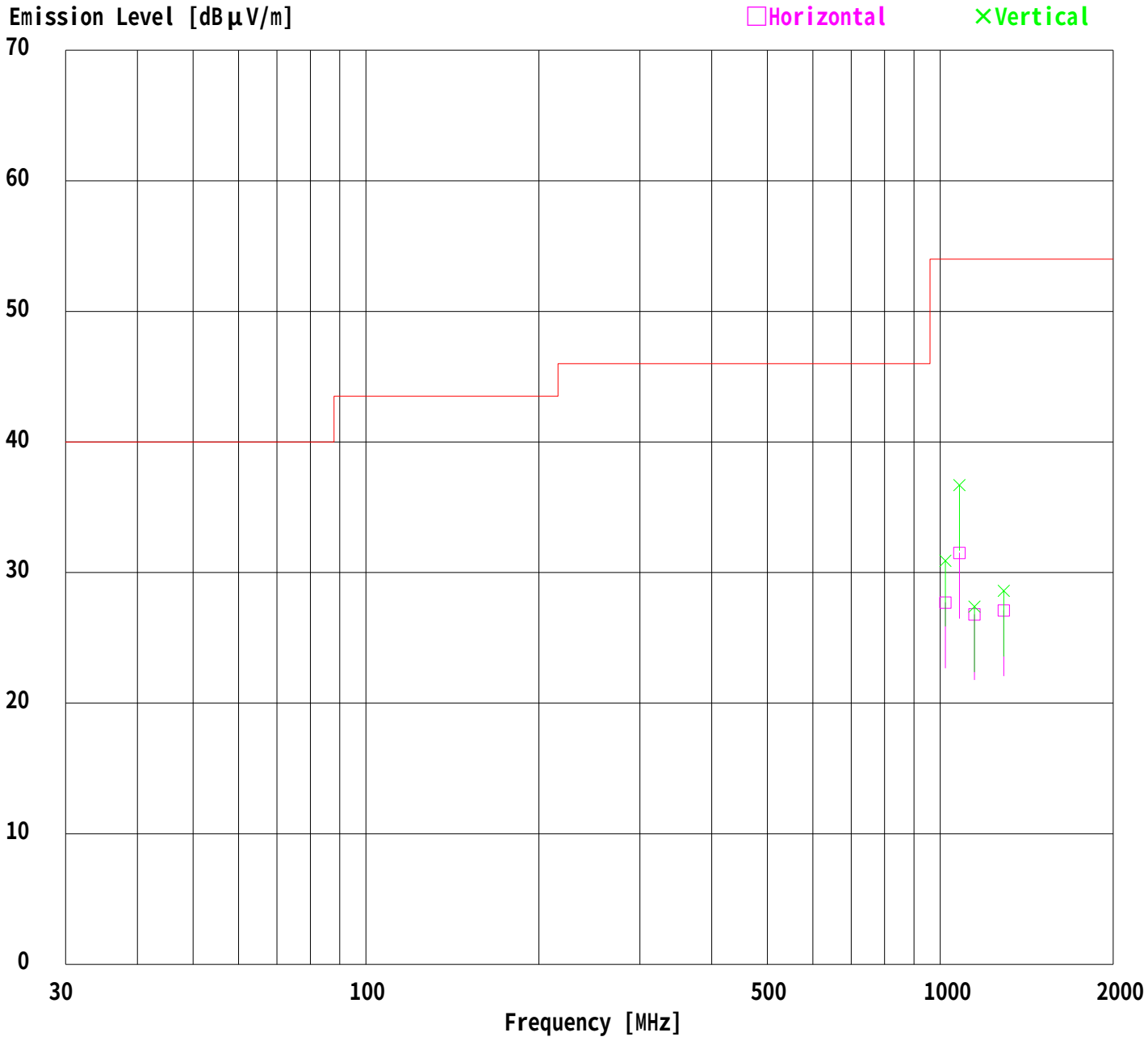
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.
ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 24LE0253-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: PV-D744S-A		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD Play		
Remarks	:		
Date	: 7/27/2004		
Test Distance	: 3 m		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 67 %		
Regulation	: FCC Part15B CLASS B(Average Limit / Upper1GHz)		



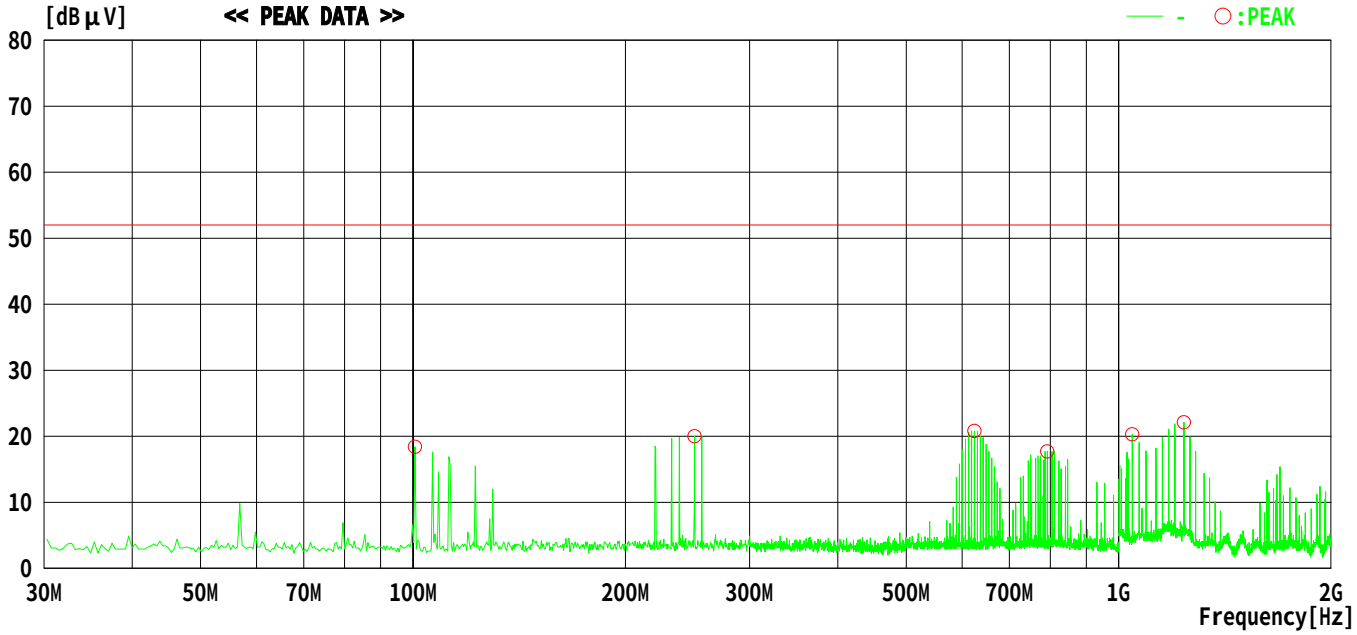
DATA OF ANTENNA TERMINAL TEST

UL Apex Co.,Ltd.

COMPANY	: Orion Electric Co., Ltd.	REPORT NO	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	DATE	: July 26, 2004
MODEL	: PV-D744S-A	REGULATION	: FCC 15B
OPERATION MODE	: TV Tuning mode	TEST ENGINEER	: Tsubasa Takayama

TEMP./HUMID. : 26°C/68%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING PEAK [dBµV]	C.F [dB]	RESULT [dBµV]	LIMIT Peak [dBµV]	LIMIT - [dBµV]	MARGIN Peak [dB]	MARGIN - [dB]	PHASE
1	100.66400	38.0	-19.6	18.4	52.0	----	33.6	----	-
2	250.69350	39.0	-19.0	20.0	52.0	----	32.0	----	-
3	624.85330	41.0	-20.2	20.8	52.0	----	31.2	----	-
4	792.57520	37.5	-19.8	17.7	52.0	----	34.3	----	-
5	1045.71300	48.2	-27.9	20.3	52.0	----	31.7	----	-
6	1237.84200	50.0	-27.9	22.1	52.0	----	29.9	----	-

CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

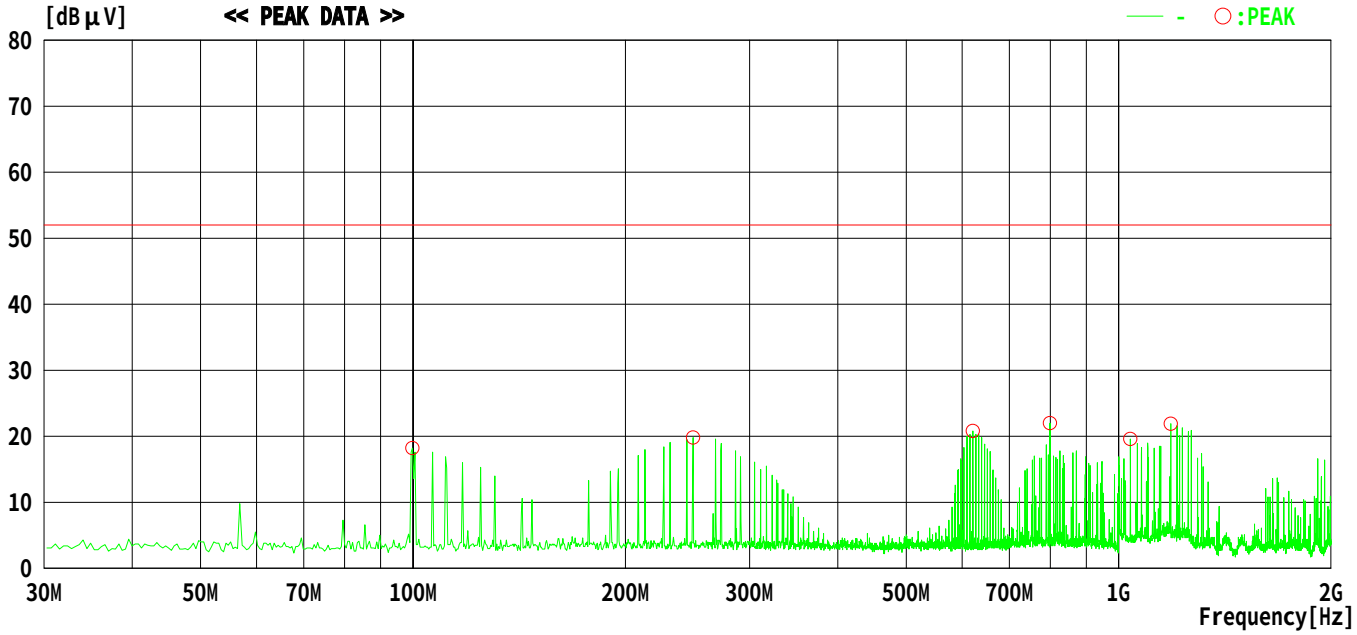
DATA OF ANTENNA TERMINAL TEST

UL Apex Co.,Ltd.

COMPANY	: Orion Electric Co., Ltd.	REPORT NO	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	DATE	: July 26, 2004
MODEL	: PV-D744S-A	REGULATION	: FCC 15B
OPERATION MODE	: CATV Tuning mode	TEST ENGINEER	: Tsubasa Takayama

TEMP./HUMID. : 26°C/68%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING PEAK [dBµV]	C.F [dB]	RESULT [dBµV]	LIMIT Peak [dBµV]	LIMIT - [dBµV]	MARGIN Peak [dB]	MARGIN - [dB]	PHASE
1	99.82113	37.8	-19.6	18.2	52.0	----	33.8	----	-
2	249.42920	38.8	-19.0	19.8	52.0	----	32.2	----	-
3	621.71060	41.0	-20.2	20.8	52.0	----	31.2	----	-
4	799.43260	41.8	-19.8	22.0	52.0	----	30.0	----	-
5	1039.28500	47.5	-27.9	19.6	52.0	----	32.4	----	-
6	1185.70300	49.8	-27.9	21.9	52.0	----	30.1	----	-

CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	:	Orion Electric Co.,Ltd.	Report Number	:	24LE0253-YW-1
Equipment	:	DVD/VCR	Regulation	:	FCC Prat15B Subpart B
Model number	:	PV-D744S-A	Date	:	July 28, 2004
Power	:	AC 120 V / 60 Hz	Temp./Humid	:	24℃/66%
Description	:	TV Reception + Rec(25dBmV)	Engineer	:	Seigo Kakehi

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	83.9	20.9	63.0	69.5	6.5
4	67.25	84.0	21.0	63.0	69.5	6.5

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	69.5	20.9	48.6	56.5	7.9
	65.75	68.4	21.1	47.3	56.5	9.2
4	62.75	68.7	21.0	47.7	56.5	8.8
	71.75	67.5	20.9	46.6	56.5	9.9

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	:	Orion Electric Co.,Ltd.	Report Number	:	24LE0253-YW-1
Equipment	:	DVD/VCR	Regulation	:	FCC Prat15B Subpart B
Model number	:	PV-D744S-A	Date	:	July 28, 2004
Power	:	AC 120 V / 60 Hz	Temp./Humid	:	24℃/66%
Description	:	TV Reception + Rec(0dBmV)	Engineer	:	Seigo Kakehi

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	83.0	20.9	62.1	69.5	7.4
4	67.25	83.8	21.0	62.8	69.5	6.7

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	69.3	20.9	48.4	56.5	8.1
	65.75	68.3	21.1	47.2	56.5	9.3
4	62.75	68.7	21.0	47.7	56.5	8.8
	71.75	67.5	20.9	46.6	56.5	9.9

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	:	Orion Electric Co.,Ltd.	Report Number	:	24LE0253-YW-1
Equipment	:	DVD/VCR	Regulation	:	FCC Prat15B Subpart B
Model number	:	PV-D744S-A	Date	:	July 28, 2004
Power	:	AC 120 V / 60 Hz	Temp./Humid	:	24℃/66%
Description	:	AV Input 1 + Rec(5Vp-p)	Engineer	:	Seigo Kakehi

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	84.2	20.9	63.3	69.5	6.2
4	67.25	83.7	21.0	62.7	69.5	6.8

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	69.2	20.9	48.3	56.5	8.2
	65.75	68.1	21.1	47.0	56.5	9.5
4	62.75	68.7	21.0	47.7	56.5	8.8
	71.75	67.6	20.9	46.7	56.5	9.8

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	:	Orion Electric Co.,Ltd.	Report Number	:	24LE0253-YW-1
Equipment	:	DVD/VCR	Regulation	:	FCC Prat15B Subpart B
Model number	:	PV-D744S-A	Date	:	July 28, 2004
Power	:	AC 120 V / 60 Hz	Temp./Humid	:	24℃/66%
Description	:	AV Input 1 + Rec(1Vp-p)	Engineer	:	Seigo Kakehi

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	84.0	20.9	63.1	69.5	6.4
4	67.25	83.9	21.0	62.9	69.5	6.6

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	69.2	20.9	48.3	56.5	8.2
	65.75	68.1	21.1	47.0	56.5	9.5
4	62.75	68.7	21.0	47.7	56.5	8.8
	71.75	67.6	20.9	46.7	56.5	9.8

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	:	Orion Electric Co.,Ltd.	Report Number	:	24LE0253-YW-1
Equipment	:	DVD/VCR	Regulation	:	FCC Prat15B Subpart B
Model number	:	PV-D744S-A	Date	:	July 28, 2004
Power	:	AC 120 V / 60 Hz	Temp./Humid	:	24℃/66%
Description	:	AV Input 2 + Rec(5Vp-p)	Engineer	:	Seigo Kakehi

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	84.2	20.9	63.3	69.5	6.2
4	67.25	83.9	21.0	62.9	69.5	6.6

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	69.2	20.9	48.3	56.5	8.2
	65.75	68.3	21.1	47.2	56.5	9.3
4	62.75	68.7	21.0	47.7	56.5	8.8
	71.75	67.5	20.9	46.6	56.5	9.9

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	:	Orion Electric Co.,Ltd.	Report Number	:	24LE0253-YW-1
Equipment	:	DVD/VCR	Regulation	:	FCC Prat15B Subpart B
Model number	:	PV-D744S-A	Date	:	July 28, 2004
Power	:	AC 120 V / 60 Hz	Temp./Humid	:	24℃/66%
Description	:	AV Input 2 + Rec(1Vp-p)	Engineer	:	Seigo Kakehi

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	84.2	20.9	63.3	69.5	6.2
4	67.25	83.8	21.0	62.8	69.5	6.7

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	69.2	20.9	48.3	56.5	8.2
	65.75	68.0	21.1	46.9	56.5	9.6
4	62.75	68.7	21.0	47.7	56.5	8.8
	71.75	67.5	20.9	46.6	56.5	9.9

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	:	Orion Electric Co.,Ltd.	Report Number	:	24LE0253-YW-1
Equipment	:	DVD/VCR	Regulation	:	FCC Prat15B Subpart B
Model number	:	PV-D744S-A	Date	:	July 28, 2004
Power	:	AC 120 V / 60 Hz	Temp./Humid	:	24℃/66%
Description	:	VCR Play	Engineer	:	Seigo Kakehi

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	83.8	20.9	62.9	69.5	6.6
4	67.25	83.9	21.0	62.9	69.5	6.6

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	69.3	20.9	48.4	56.5	8.1
	65.75	68.2	21.1	47.1	56.5	9.4
4	62.75	68.7	21.0	47.7	56.5	8.8
	71.75	67.5	20.9	46.6	56.5	9.9

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	:	Orion Electric Co.,Ltd.	Report Number	:	24LE0253-YW-1
Equipment	:	DVD/VCR	Regulation	:	FCC Prat15B Subpart B
Model number	:	PV-D744S-A	Date	:	July 28, 2004
Power	:	AC 120 V / 60 Hz	Temp./Humid	:	24℃/66%
Description	:	DVD Play	Engineer	:	Seigo Kakehi

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	84.4	20.9	63.5	69.5	6.0
4	67.25	83.8	21.0	62.8	69.5	6.7

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	69.3	20.9	48.4	56.5	8.1
	65.75	68.2	21.1	47.1	56.5	9.4
4	62.75	68.7	21.0	47.7	56.5	8.8
	71.75	67.5	20.9	46.6	56.5	9.9

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : TV Reception + Rec(25dBmV) : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	32.6400	38.0	----	-21.2	16.8	----	39.5	----	22.7	----	-
2	47.8100	32.9	----	-21.0	11.9	----	39.5	----	27.6	----	-
3	122.5200	35.1	----	-20.8	14.3	----	39.5	----	25.2	----	-
4	245.0300	29.4	----	-20.9	8.5	----	39.5	----	31.0	----	-
5	612.6000	32.6	----	-20.6	12.0	----	39.5	----	27.5	----	-
6	847.0800	40.1	----	-20.4	19.7	----	39.5	----	19.8	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : TV Reception + Rec(0dBmV) : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	32.6100	37.7	----	-21.2	16.5	----	39.5	----	23.0	----	-
2	47.7000	32.8	----	-21.0	11.8	----	39.5	----	27.7	----	-
3	122.5200	34.8	----	-20.8	14.0	----	39.5	----	25.5	----	-
4	245.0300	28.9	----	-20.9	8.0	----	39.5	----	31.5	----	-
5	612.5000	32.2	----	-20.6	11.6	----	39.5	----	27.9	----	-
6	847.0200	40.0	----	-20.4	19.6	----	39.5	----	19.9	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

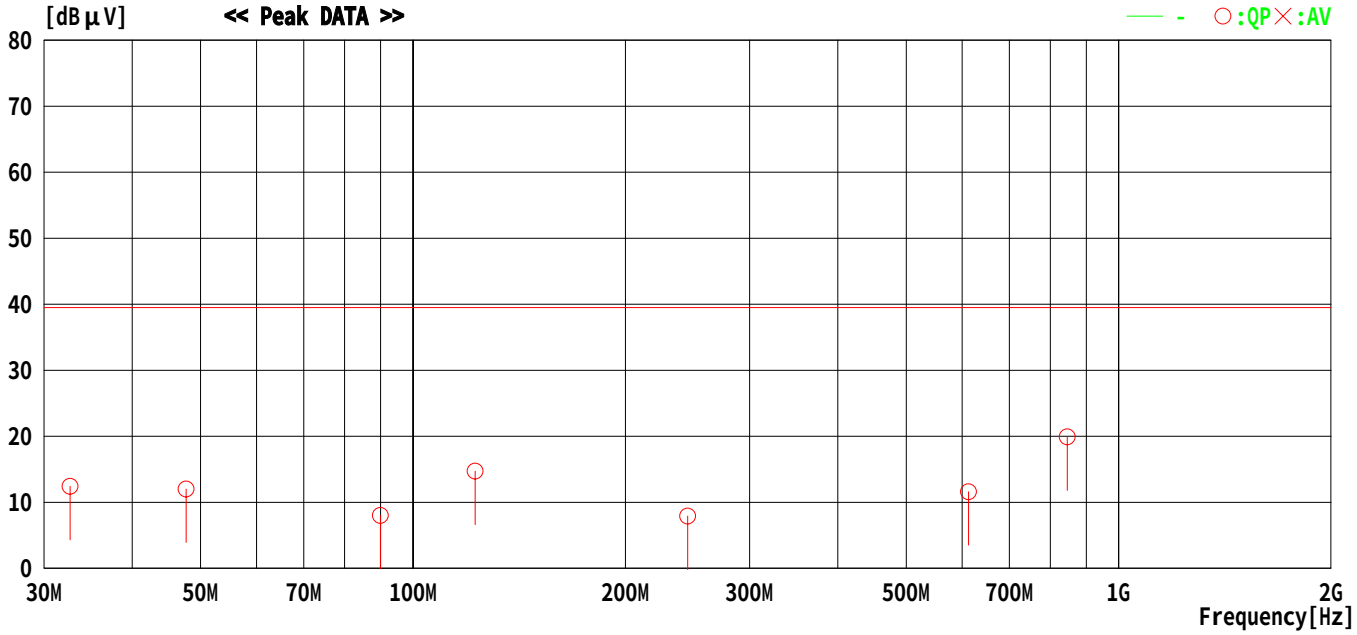
DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 1 + Rec(5Vp-p) : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ	READING Peak	READING -	C.F	RESULT Peak	RESULT -	LIMIT Peak	LIMIT -	MARGIN Peak	MARGIN -	PHASE
	[MHz]	[dBμV]	[dBμV]	[dB]	[dBμV]	[dBμV]	[dBμV]	[dBμV]	[dB]	[dB]	
1	32.6600	33.6	----	-21.2	12.4	----	39.5	----	27.1	----	-
2	47.7000	33.0	----	-21.0	12.0	----	39.5	----	27.5	----	-
3	89.9000	28.8	----	-20.8	8.0	----	39.5	----	31.5	----	-
4	122.5300	35.5	----	-20.8	14.7	----	39.5	----	24.8	----	-
5	245.0300	28.8	----	-20.9	7.9	----	39.5	----	31.6	----	-
6	612.5800	32.2	----	-20.6	11.6	----	39.5	----	27.9	----	-
7	845.7400	40.3	----	-20.4	19.9	----	39.5	----	19.6	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBμV] + CABLE LOSS[dBμV]

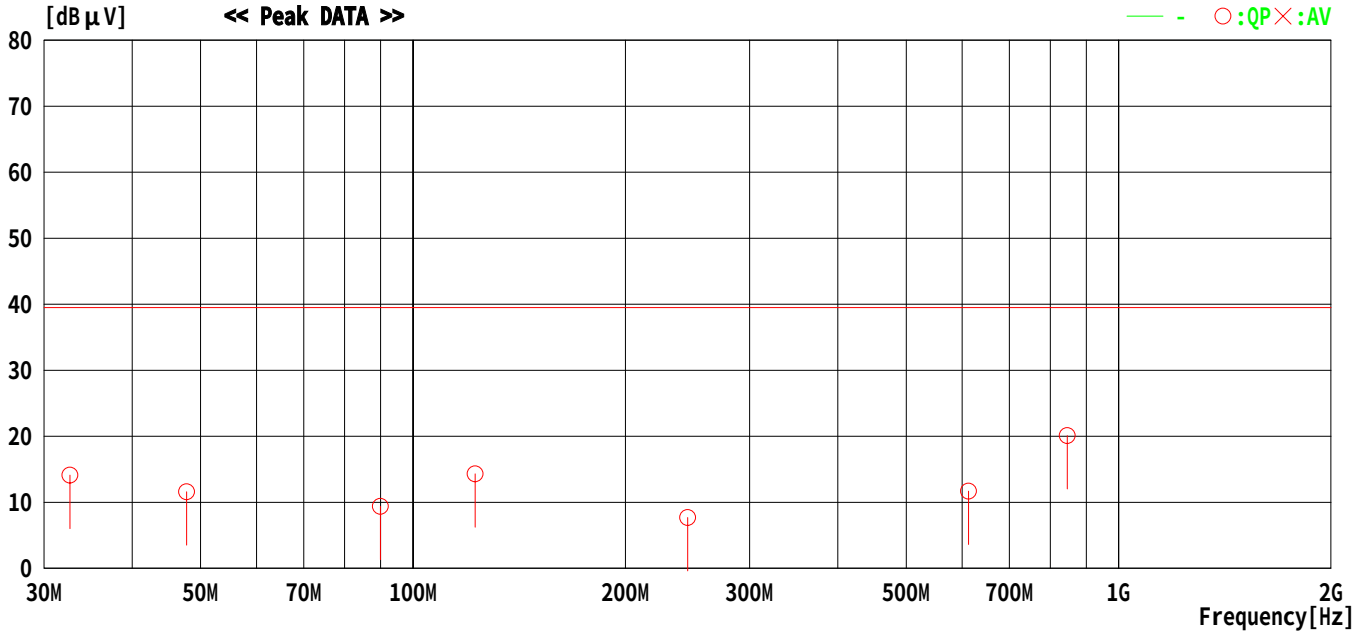
DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 1 + Rec(1Vp-p) : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ	READING Peak	READING -	C.F	RESULT Peak	RESULT -	LIMIT Peak	LIMIT -	MARGIN Peak	MARGIN -	PHASE
	[MHz]	[dBμV]	[dBμV]	[dB]	[dBμV]	[dBμV]	[dBμV]	[dBμV]	[dB]	[dB]	
1	32.6400	35.3	----	-21.2	14.1	----	39.5	----	25.4	----	-
2	47.7700	32.6	----	-21.0	11.6	----	39.5	----	27.9	----	-
3	89.9100	30.2	----	-20.8	9.4	----	39.5	----	30.1	----	-
4	122.5300	35.1	----	-20.8	14.3	----	39.5	----	25.2	----	-
5	245.0500	28.6	----	-20.9	7.7	----	39.5	----	31.8	----	-
6	612.5800	32.3	----	-20.6	11.7	----	39.5	----	27.8	----	-
7	845.7300	40.5	----	-20.4	20.1	----	39.5	----	19.4	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBμV] + CABLE LOSS[dBμV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 2 + Rec(5Vp-p) : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	32.6300	34.3	----	-21.2	13.1	----	39.5	----	26.4	----	-
2	47.7600	32.9	----	-21.0	11.9	----	39.5	----	27.6	----	-
3	89.8900	29.6	----	-20.8	8.8	----	39.5	----	30.7	----	-
4	122.5200	35.4	----	-20.8	14.6	----	39.5	----	24.9	----	-
5	245.0600	29.1	----	-20.9	8.2	----	39.5	----	31.3	----	-
6	612.5800	32.5	----	-20.6	11.9	----	39.5	----	27.6	----	-
7	849.0900	40.3	----	-20.4	19.9	----	39.5	----	19.6	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 2 + Rec(1Vp-p) : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	32.6100	36.7	----	-21.2	15.5	----	39.5	----	24.0	----	-
2	47.7600	33.0	----	-21.0	12.0	----	39.5	----	27.5	----	-
3	89.9100	31.1	----	-20.8	10.3	----	39.5	----	29.2	----	-
4	122.5200	35.3	----	-20.8	14.5	----	39.5	----	25.0	----	-
5	245.0300	28.6	----	-20.9	7.7	----	39.5	----	31.8	----	-
6	612.5800	32.8	----	-20.6	12.2	----	39.5	----	27.3	----	-
7	849.0900	40.4	----	-20.4	20.0	----	39.5	----	19.5	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : PV-D744S-A
POWER : AC120V/60Hz

Report No. : 24LE0253-YW-1
REGURATION : FCC Part15 SubpartB
TEMP./HUM. : 23deg.C/66%
ENGINEER : Seigo Kakehi

MODE : VCR Play : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	32.6400	34.5	----	-21.2	13.3	----	39.5	----	26.2	----	-
2	47.7600	32.7	----	-21.0	11.7	----	39.5	----	27.8	----	-
3	122.5200	35.1	----	-20.8	14.3	----	39.5	----	25.2	----	-
4	245.0200	29.3	----	-20.9	8.4	----	39.5	----	31.1	----	-
5	675.0100	34.7	----	-20.6	14.1	----	39.5	----	25.4	----	-
6	847.0200	40.2	----	-20.4	19.8	----	39.5	----	19.7	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : PV-D744S-A
POWER : AC120V/60Hz

Report No. : 24LE0253-YW-1
REGURATION : FCC Part15 SubpartB
TEMP./HUM. : 23deg.C/66%
ENGINEER : Seigo Kakehi

MODE : DVD Play : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	54.1100	33.6	----	-20.9	12.7	----	39.5	----	26.8	----	-
2	122.5200	35.6	----	-20.8	14.8	----	39.5	----	24.7	----	-
3	245.0200	29.1	----	-20.9	8.2	----	39.5	----	31.3	----	-
4	675.0000	33.1	----	-20.6	12.5	----	39.5	----	27.0	----	-
5	708.7500	30.4	----	-20.4	10.0	----	39.5	----	29.5	----	-
6	847.0100	40.2	----	-20.4	19.8	----	39.5	----	19.7	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : TV Reception + Rec(25dBmV) : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	38.6100	38.6	----	-21.0	17.6	----	39.5	----	21.9	----	-
2	53.7200	31.9	----	-20.9	11.0	----	39.5	----	28.5	----	-
3	134.4900	33.4	----	-20.7	12.7	----	39.5	----	26.8	----	-
4	672.4000	34.1	----	-20.6	13.5	----	39.5	----	26.0	----	-
5	708.7700	30.9	----	-20.4	10.5	----	39.5	----	29.0	----	-
6	847.0000	40.1	----	-20.4	19.7	----	39.5	----	19.8	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : TV Reception + Rec(0dBmV) : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	38.5800	37.8	----	-21.0	16.8	----	39.5	----	22.7	----	-
2	53.7000	31.7	----	-20.9	10.8	----	39.5	----	28.7	----	-
3	134.4900	33.5	----	-20.7	12.8	----	39.5	----	26.7	----	-
4	672.4100	33.5	----	-20.6	12.9	----	39.5	----	26.6	----	-
5	708.7600	31.1	----	-20.4	10.7	----	39.5	----	28.8	----	-
6	847.0100	40.1	----	-20.4	19.7	----	39.5	----	19.8	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : PV-D744S-A
POWER : AC120V/60Hz

Report No. : 24LE0253-YW-1
REGURATION : FCC Part15 SubpartB
TEMP./HUM. : 23deg.C/66%
ENGINEER : Seigo Kakehi

MODE : AV Input 1 + Rec(5Vp-p) : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	38.6100	26.4	----	-21.0	5.4	----	39.5	----	34.1	----	-
2	53.7600	25.2	----	-20.9	4.3	----	39.5	----	35.2	----	-
3	80.7600	27.1	----	-21.2	5.9	----	39.5	----	33.6	----	-
4	95.8900	24.8	----	-20.7	4.1	----	39.5	----	35.4	----	-
5	134.4800	31.4	----	-20.7	10.7	----	39.5	----	28.8	----	-
6	157.5300	24.0	----	-20.8	3.2	----	39.5	----	36.3	----	-
7	171.8100	25.8	----	-20.7	5.1	----	39.5	----	34.4	----	-
8	201.7300	25.6	----	-20.7	4.9	----	39.5	----	34.6	----	-
9	268.9800	27.8	----	-20.9	6.9	----	39.5	----	32.6	----	-
10	537.9500	30.2	----	-20.7	9.5	----	39.5	----	30.0	----	-
11	708.7600	36.7	----	-20.4	16.3	----	39.5	----	23.2	----	-
12	841.7100	40.7	----	-20.4	20.3	----	39.5	----	19.2	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : PV-D744S-A
POWER : AC120V/60Hz

Report No. : 24LE0253-YW-1
REGURATION : FCC Part15 SubpartB
TEMP./HUM. : 23deg.C/66%
ENGINEER : Seigo Kakehi

MODE : AV Input 1 + Rec(1Vp-p) : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	38.6100	29.0	----	-21.0	8.0	----	39.5	----	31.5	----	-
2	53.7500	26.0	----	-20.9	5.1	----	39.5	----	34.4	----	-
3	80.7500	26.1	----	-21.2	4.9	----	39.5	----	34.6	----	-
4	95.8800	25.9	----	-20.7	5.2	----	39.5	----	34.3	----	-
5	134.4900	30.4	----	-20.7	9.7	----	39.5	----	29.8	----	-
6	157.5200	24.4	----	-20.8	3.6	----	39.5	----	35.9	----	-
7	171.8300	25.2	----	-20.7	4.5	----	39.5	----	35.0	----	-
8	201.7700	24.7	----	-20.7	4.0	----	39.5	----	35.5	----	-
9	268.9800	28.0	----	-20.9	7.1	----	39.5	----	32.4	----	-
10	537.9600	29.8	----	-20.7	9.1	----	39.5	----	30.4	----	-
11	708.7500	36.1	----	-20.4	15.7	----	39.5	----	23.8	----	-
12	841.7000	40.5	----	-20.4	20.1	----	39.5	----	19.4	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : PV-D744S-A
POWER : AC120V/60Hz

Report No. : 24LE0253-YW-1
REGURATION : FCC Part15 SubpartB
TEMP./HUM. : 23deg.C/66%
ENGINEER : Seigo Kakehi

MODE : AV Input 2 + Rec(5Vp-p) : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	38.6300	29.4	----	-21.0	8.4	----	39.5	----	31.1	----	-
2	134.5000	30.9	----	-20.7	10.2	----	39.5	----	29.3	----	-
3	268.9800	27.5	----	-20.9	6.6	----	39.5	----	32.9	----	-
4	537.9500	30.1	----	-20.7	9.4	----	39.5	----	30.1	----	-
5	708.7700	36.3	----	-20.4	15.9	----	39.5	----	23.6	----	-
6	841.7100	40.8	----	-20.4	20.4	----	39.5	----	19.1	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 2 + Rec(1Vp-p) : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	38.6000	35.4	----	-21.0	14.4	----	39.5	----	25.1	----	-
2	134.4900	32.4	----	-20.7	11.7	----	39.5	----	27.8	----	-
3	269.0000	27.0	----	-20.9	6.1	----	39.5	----	33.4	----	-
4	537.9600	29.3	----	-20.7	8.6	----	39.5	----	30.9	----	-
5	708.7700	35.9	----	-20.4	15.5	----	39.5	----	24.0	----	-
6	841.7000	40.3	----	-20.4	19.9	----	39.5	----	19.6	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : VCR Play : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	38.6000	35.6	----	-21.0	14.6	----	39.5	----	24.9	----	-
2	53.7500	32.3	----	-20.9	11.4	----	39.5	----	28.1	----	-
3	134.4800	33.9	----	-20.7	13.2	----	39.5	----	26.3	----	-
4	672.4100	33.7	----	-20.6	13.1	----	39.5	----	26.4	----	-
5	708.7500	36.8	----	-20.4	16.4	----	39.5	----	23.1	----	-
6	847.0100	40.3	----	-20.4	19.9	----	39.5	----	19.6	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF RF SUPRIOUS TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : DVD Play : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	53.6700	32.3	----	-20.9	11.4	----	39.5	----	28.1	----	-
2	60.0900	32.8	----	-20.9	11.9	----	39.5	----	27.6	----	-
3	134.4900	33.9	----	-20.7	13.2	----	39.5	----	26.3	----	-
4	672.4900	34.1	----	-20.6	13.5	----	39.5	----	26.0	----	-
5	708.7500	34.6	----	-20.4	14.2	----	39.5	----	25.3	----	-
6	847.0200	39.9	----	-20.4	19.5	----	39.5	----	20.0	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 1 + Rec(5Vp-p) : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	61.2500	22.5	----	-20.9	1.6	----	9.5	----	7.9	----	-
2	122.5000	22.4	----	-20.8	1.6	----	9.5	----	7.9	----	-
3	183.7500	22.7	----	-20.7	2.0	----	9.5	----	7.5	----	-
4	245.0000	22.6	----	-20.9	1.7	----	9.5	----	7.8	----	-
5	306.2500	22.6	----	-20.9	1.7	----	9.5	----	7.8	----	-
6	367.5000	23.6	----	-20.9	2.7	----	9.5	----	6.8	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 1 + Rec(1Vp-p) : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	61.2500	21.6	----	-20.9	0.7	----	9.5	----	8.8	----	-
2	122.5000	21.6	----	-20.8	0.8	----	9.5	----	8.7	----	-
3	183.7500	22.6	----	-20.7	1.9	----	9.5	----	7.6	----	-
4	245.0000	22.7	----	-20.9	1.8	----	9.5	----	7.7	----	-
5	306.2500	22.5	----	-20.9	1.6	----	9.5	----	7.9	----	-
6	367.5000	23.1	----	-20.9	2.2	----	9.5	----	7.3	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 2 + Rec(5Vp-p) : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	61.2500	21.7	----	-20.9	0.8	----	9.5	----	8.7	----	-
2	122.5000	22.4	----	-20.8	1.6	----	9.5	----	7.9	----	-
3	183.7500	22.2	----	-20.7	1.5	----	9.5	----	8.0	----	-
4	245.0000	22.8	----	-20.9	1.9	----	9.5	----	7.6	----	-
5	306.2500	22.4	----	-20.9	1.5	----	9.5	----	8.0	----	-
6	367.5000	23.5	----	-20.9	2.6	----	9.5	----	6.9	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 2 + Rec(1Vp-p) : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	61.2500	21.2	----	-20.9	0.3	----	9.5	----	9.2	----	-
2	122.5000	21.8	----	-20.8	1.0	----	9.5	----	8.5	----	-
3	183.7500	22.6	----	-20.7	1.9	----	9.5	----	7.6	----	-
4	245.0000	22.1	----	-20.9	1.2	----	9.5	----	8.3	----	-
5	306.2500	23.1	----	-20.9	2.2	----	9.5	----	7.3	----	-
6	367.5000	24.3	----	-20.9	3.4	----	9.5	----	6.1	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : VCR Play : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	61.2500	21.3	----	-20.9	0.4	----	9.5	----	9.1	----	-
2	122.5000	22.5	----	-20.8	1.7	----	9.5	----	7.8	----	-
3	183.7500	22.1	----	-20.7	1.4	----	9.5	----	8.1	----	-
4	245.0000	22.5	----	-20.9	1.6	----	9.5	----	7.9	----	-
5	306.2500	22.7	----	-20.9	1.8	----	9.5	----	7.7	----	-
6	367.5000	23.0	----	-20.9	2.1	----	9.5	----	7.4	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : DVD Play : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	61.2500	21.5	----	-20.9	0.6	----	9.5	----	8.9	----	-
2	122.5000	21.9	----	-20.8	1.1	----	9.5	----	8.4	----	-
3	183.7500	24.0	----	-20.7	3.3	----	9.5	----	6.2	----	-
4	245.0000	22.8	----	-20.9	1.9	----	9.5	----	7.6	----	-
5	306.2500	22.6	----	-20.9	1.7	----	9.5	----	7.8	----	-
6	367.5000	23.0	----	-20.9	2.1	----	9.5	----	7.4	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 1 + Rec(5Vp-p) : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	67.2500	22.1	----	-21.0	1.1	----	9.5	----	8.4	----	-
2	134.5000	22.4	----	-20.7	1.7	----	9.5	----	7.8	----	-
3	201.7500	22.8	----	-20.7	2.1	----	9.5	----	7.4	----	-
4	269.0000	22.8	----	-20.9	1.9	----	9.5	----	7.6	----	-
5	336.2500	23.1	----	-20.9	2.2	----	9.5	----	7.3	----	-
6	403.5000	23.5	----	-20.9	2.6	----	9.5	----	6.9	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 1 + Rec(1Vp-p) : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	67.2500	22.2	----	-21.0	1.2	----	9.5	----	8.3	----	-
2	134.5000	22.0	----	-20.7	1.3	----	9.5	----	8.2	----	-
3	201.7500	22.0	----	-20.7	1.3	----	9.5	----	8.2	----	-
4	269.0000	23.3	----	-20.9	2.4	----	9.5	----	7.1	----	-
5	336.2500	22.5	----	-20.9	1.6	----	9.5	----	7.9	----	-
6	403.5000	23.0	----	-20.9	2.1	----	9.5	----	7.4	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : PV-D744S-A
POWER : AC120V/60Hz

Report No. : 24LE0253-YW-1
REGURATION : FCC Part15 SubpartB
TEMP./HUM. : 23deg.C/66%
ENGINEER : Seigo Kakehi

MODE : AV Input 2 + Rec(5Vp-p) : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	67.2500	23.4	----	-21.0	2.4	----	9.5	----	7.1	----	-
2	134.5000	22.2	----	-20.7	1.5	----	9.5	----	8.0	----	-
3	201.7500	22.7	----	-20.7	2.0	----	9.5	----	7.5	----	-
4	269.0000	23.1	----	-20.9	2.2	----	9.5	----	7.3	----	-
5	336.2500	22.6	----	-20.9	1.7	----	9.5	----	7.8	----	-
6	403.5000	23.6	----	-20.9	2.7	----	9.5	----	6.8	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : AV Input 2 + Rec(1Vp-p) : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	67.2500	22.0	----	-21.0	1.0	----	9.5	----	8.5	----	-
2	134.5000	22.2	----	-20.7	1.5	----	9.5	----	8.0	----	-
3	201.7500	22.1	----	-20.7	1.4	----	9.5	----	8.1	----	-
4	269.0000	23.1	----	-20.9	2.2	----	9.5	----	7.3	----	-
5	336.2500	22.4	----	-20.9	1.5	----	9.5	----	8.0	----	-
6	403.5000	22.9	----	-20.9	2.0	----	9.5	----	7.5	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : PV-D744S-A
POWER : AC120V/60Hz

Report No. : 24LE0253-YW-1
REGURATION : FCC Part15 SubpartB
TEMP./HUM. : 23deg.C/66%
ENGINEER : Seigo Kakehi

MODE : VCR Play : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	67.2500	22.7	----	-21.0	1.7	----	9.5	----	7.8	----	-
2	134.5000	22.4	----	-20.7	1.7	----	9.5	----	7.8	----	-
3	201.7500	23.3	----	-20.7	2.6	----	9.5	----	6.9	----	-
4	269.0000	23.4	----	-20.9	2.5	----	9.5	----	7.0	----	-
5	336.2500	22.7	----	-20.9	1.8	----	9.5	----	7.7	----	-
6	403.5000	23.7	----	-20.9	2.8	----	9.5	----	6.7	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

DATA OF ANTENNA TRANSFER SWITCH TEST

YOKOWA NO.7 S/R
Date : 2004/07/28 11:48:34

COMPANY	: Orion Electric Co., Ltd.	Report No.	: 24LE0253-YW-1
EQUIPMENT	: DVD/VCR	REGURATION	: FCC Part15 SubpartB
MODEL NO.	: PV-D744S-A	TEMP./HUM.	: 23deg.C/66%
POWER	: AC120V/60Hz	ENGINEER	: Seigo Kakehi

MODE : DVD Play : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		Peak	-		Peak	-	Peak	-	Peak	-	
	[MHz]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dB]	
1	67.2500	22.4	----	-21.0	1.4	----	9.5	----	8.1	----	-
2	134.5000	23.2	----	-20.7	2.5	----	9.5	----	7.0	----	-
3	201.7500	22.5	----	-20.7	1.8	----	9.5	----	7.7	----	-
4	269.0000	22.9	----	-20.9	2.0	----	9.5	----	7.5	----	-
5	336.2500	22.8	----	-20.9	1.9	----	9.5	----	7.6	----	-
6	403.5000	23.3	----	-20.9	2.4	----	9.5	----	7.1	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8[dBµV] + CABLE LOSS[dBµV]

Picture Sensitvity Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company	: Orion Electric Co., Ltd.	Report Number	: 24LE0253-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15 Subpart B
Model Number	: PV-D744S-A	Date	: July 26, 2004
Power	: 120V/60Hz	Temp / Humid	: 23deg.C/45%
Description	: TV Reception	Engineer	: Tsubasa Takayama
Remarks	: -		

Ch [VHF]	Frequency [MHz]	Sensitivity [MHz]		Ch [UHF]	Frequency [MHz]	Sensitivity [MHz]	
		[dBμV]	[μV]			[dB μ V]	[μ V]
2	55.25	20.0	10.0	14	471.25	19.5	9.4
3	61.25	16.2	6.5	20	507.25	19.5	9.4
4	67.25	16.4	6.6	26	543.25	19.7	9.7
5	77.25	16.5	6.7	32	579.25	20.5	10.6
6	83.25	16.5	6.7	38	615.25	20.5	10.6
7	175.25	16.7	6.8	44	651.25	18.5	8.4
8	181.25	16.7	6.8	50	687.25	18.3	8.2
9	187.25	16.6	6.8	56	723.25	18.3	8.2
10	193.25	16.9	7.0	62	759.25	18.9	8.8
11	199.25	17.0	7.1	69	801.25	18.9	8.8
12	205.25	17.4	7.4	-	-	-	
13	211.25	17.4	7.4	-	-	-	-
Average VHF			7.1	Average UHF			9.2
Average UHF/VHF : 20 log UHF[μV] / VHF[μV]= 2.2 [Limit : 8.0dB]							

Noise Figure Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company	: Orion Electric Co., Ltd.	Report Number	: 24LE0253-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15 Subpart B
Model Number	: PV-D744S-A	Date	: July 26, 2004
Power	: 120V/60Hz	Temp / Humid	: 23deg.C/45%
Description	: TV Reception	Engineer	: Tsubasa Takayama
Remarks	: -		

Ch	Frequency [MHz]	Meter Reading [dB]	Correction Factor [dB]	Noise Figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	8.0	0.2	7.8	14.0	6.2
3	61.25	3.5	0.2	3.3	14.0	10.7
4	67.25	3.2	0.2	3.0	14.0	11.0
5	77.25	3.5	0.2	3.3	14.0	10.7
6	83.25	3.0	0.2	2.8	14.0	11.2
7	175.25	4.2	0.2	4.0	14.0	10.0
8	181.25	4.0	0.2	3.8	14.0	10.2
9	187.25	4.0	0.2	3.8	14.0	10.2
10	193.25	3.8	0.2	3.6	14.0	10.4
11	199.25	3.9	0.2	3.7	14.0	10.3
12	205.25	3.7	0.2	3.5	14.0	10.5
13	211.25	3.8	0.2	3.6	14.0	10.4
TV UHF Fundamental						
14	471.25	5.5	0.3	5.2	14.0	8.8
20	507.25	5.5	0.3	5.2	14.0	8.8
26	543.25	5.5	0.3	5.2	14.0	8.8
32	579.25	6.0	0.3	5.7	14.0	8.3
38	615.25	7.0	0.3	6.7	14.0	7.3
44	651.25	6.2	0.3	5.9	14.0	8.1
50	687.25	6.0	0.3	5.7	14.0	8.3
56	723.25	6.0	0.4	5.6	14.0	8.4
62	759.25	5.8	0.4	5.4	14.0	8.6
69	801.25	6.0	0.4	5.6	14.0	8.4
Mid band						
14	121.25	3.8	0.2	3.6	14.0	10.4
16	133.25	7.0	0.2	6.8	14.0	7.2
18	145.25	6.0	0.2	5.8	14.0	8.2
20	157.25	6.3	0.2	6.1	14.0	7.9
22	169.25	5.0	0.2	4.8	14.0	9.2
Super band						
23	217.25	4.6	0.2	4.4	14.0	9.6
26	235.25	4.0	0.2	3.8	14.0	10.2
29	253.25	4.0	0.2	3.8	14.0	10.2
32	271.25	4.0	0.2	3.8	14.0	10.2
36	295.25	4.2	0.2	4.0	14.0	10.0

APPENDIX 3
Test Instruments

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
APVBT01	VIDEO BOOSTER	UL Apex	-	RF, ATS	-
APTVG01	TV Generator	Leader	408NPS	RF, ATS	Pre Check
APSPA04	Spectrum Analyzer	Advantest	R3265	AT, RF, ATS	2004/05/14 * 12
APMAT05	Matching Pad	TME	ZT-130	AT, RF, ATS, PS, NF	2003/12/16 * 12
APNFM01	Noise Figure Indicator	Elena	ENF-2005	NF	2002/09/27 * 24
APNFS01	Noise Source	Elena	MC1100	NF	-
AV01-01	Signal Generator	Rohde & Schwarz	SMY01	PS	2004/02/19 * 12
SS-05	Digitizing Oscilloscope	Sony Tektronix	2221	PS	2004/01/22 * 12
APBPF01	Band pass filter	Erika Fiedler	BP	PS	Pre Check
APPRA01	Pre Amplifier	Anritsu	MH648A	AT, RF, ATS	2003/10/03 * 12
APPRA05	Pre Amplifier	Hewlett Packard	8449B	AT	2003/12/10 * 12
APCBL-01	Coaxial Cable	Fujikura	5D-2W	AT, RF, ATS	2004/01/08 * 12
APCBL-02	Coaxial Cable	Fujikura	5D-2W	AT, RF, ATS	2004/01/08 * 12
OS-15	Digital Humidity Indicator	SATO	PC-5000TRH	CE, RF, ATS, PS, NF	2004/05/06 * 12
AF-02	Pre Amplifier	Anritsu	MH648A	RE	2004/03/28 * 12
AF-04	Pre Amplifier	Hewlett Packard	8449B	RE	2003/11/04 * 12
AT-03	Attenuator	Anritsu	MP721B	RE	2004/03/22 * 12
BA-10	Biconical Antenna	Schwarzbeck	BBA9106	RE	2003/10/31 * 12
HA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2004/04/10 * 12
LA-06	Logperiodic Antenna	Schwarzbeck	UHALP9108-A	RE	2004/04/10 * 12
SA-07	Spectrum Analyzer	Advantest	R3273	RE	2004/07/26 * 12
TR-02	Test Receiver	Rohde & Schwarz	ESVS30	RE	2004/05/11 * 12
CC-1ORC	Yokowa No.1 open coaxial(0.01-1000MHz)	UL Apex	CC-11,CC-12,CC-14, CC-15,CC-16,,SW-11 ,SW-12	RE	2004/03/28 * 12
CC-C10	Microwave Cable	Storm	421-014(7m)	RE	2003/12/18 * 12
CC-C13	Microwave Cable	Suhner	SUCOFLEX	RE	2004/01/07 * 12
YOATS-01	Open Test Site	JSE	3m、10m	RE	2003/08/13 * 12
OS-06	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/04/01 * 12
HA-01	Horn Antenna	A.H.Systems	SAS-200/571	RE	2004/04/10 * 12
SA-05	Spectrum Analyzer	Advantest	R3271	CE, RE	2003/12/21 * 12
TR-03	Test Receiver	Rohde & Schwarz	ESHS30	CE	2004/05/21 * 12
LS-03	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2003/10/31 * 12
CC-2S	Yokowa No.2 shield coaxial(0.01MHz-1000MHz)	UL Apex	CC-24,CC-25,CC-26, CC-28,CC-29,SW-21, SW-22	CE	2004/03/28 * 12
OS-10	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/05/06 * 12
YOATS-02	Open Test Site	JSE	3m、10m	RE	2003/08/14 * 12
CC-C15	Microwave Cable	Suhner	SUCOFLEX	RE	2004/05/02 * 12
CC-C17	Microwave Cable	Suhner	SUCOFLEX	RE	2004/05/02 * 12

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards.

Test Item :

- CE: Conducted emission
- RE: Radiated emission
- AT: Antenna terminal disturbance voltage
- RF: RF output level & spurious
- ATS: Antenna transfer switch
- PS: Picture sensitivity
- NF: Noise figure