



Certification EMI TEST REPORT

Test Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co., Ltd.
Type of equipment : DVD/VCR
Model number : DV-PT100-S
FCC ID : A7RM2E5D
Test standard : FCC Part 15 Subpart B
ICES-003 Issue No.4 Class B
Test result : Complied

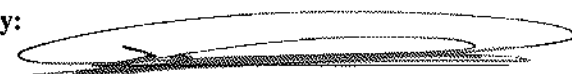
Similar model :

Model No.	Brand name	Model No.	Brand name
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

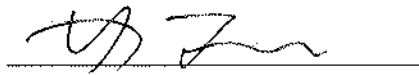
1. This test report shall not be reproduced except in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contain a true representation 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 : September 18 to 30, 2004

Tested by:


Tsubasa Takayama
EMC Service

Approved by:


Hiroya Tabata
Leader of EMC Service

UL Apex Co., Ltd.

Yokowa EMC Lab.

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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 : PIONEER
Model number : DV-PT100-S
FCC ID : A7RM2E5D
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 : September 17, 2004
Condition of EUT : Production Prototype
(Not for Sale: This sample is equivalent to mass-produced items.)

2.2 Product description

Model: DV-PT100-S (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

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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	19.2 dB (0.1500 MHz, N, TV Reception + Rec 0dBmV / AV Input + Rec 5Vp-p)	Complied
Radiated emission	ANSI C63.4:2003 IEEE 187:1990	30-88 MHz: 100 uV/m 88-216 MHz: 150 uV/m 216-960 MHz: 200 uV/m above 960 MHz: 500 uV/m	5.2 dB (135.00 MHz, Vertical, TV Reception + Rec 25dBmV)	Complied
Antenna terminal voltage	ANSI C63.4:2003	2 nW (at 75 ohm)	24.5 dB (913.57600 MHz, CATV Tuning)	Complied
RF output level	ANSI C63.4:2003	Video signal: 3000 uV Aural signal: 671 uV	3.8 dB (61.25 MHz, 3ch, AV Input (5Vp-p))	Complied
Spurious emission		94.8 uV	22.0 V (944.7500 MHz, DVD Play, 4ch)	Complied
Transfer switch	ANSI C63.4:2003	9.5 dB	4.2 dB (134.5000 MHz, DVD Play, 4ch)	Complied
Picture sensitivity	ANSI C63.4:2003	8 dB	5.9 dB	Complied
Noise figure	FCC/OET MP:2:1986	14 dB	6.1 dB (687.25 MHz, 50ch)	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.**

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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

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Test room	Width x Depth x Height (m)	Test room	Width x Depth x Height (m)
No.1 shielded room	5.5 x 6.4 x 2.7	No.7 shielded room	9.3 x 3.4 x 2.7
No.2 shielded room	4.5 x 3.6 x 2.7	No.1 EMS lab. (Full-anechoic chamber)	5.0 x 8.0 x 3.5
No.3 shielded room	3.6 x 7.2 x 2.4	No.2 EMS lab. (Full-anechoic chamber)	4.0 x 7.0 x 3.5
No.4 shielded room	5.5 x 5.0 x 2.4		
No.5 shielded room	5.5 x 4.3 x 2.5		
No.6 shielded room	5.2 x 3.2 x 2.9		

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)

No.3 open site

This site has been fully described in a report submitted to FCC office, and listed on September 25, 2003.

(Registration number: 90412)

*NVLAP Lab. Code : 200109-0

3.8 Test setup, Data of EMI & Test instruments

Please refer to Appendix 1 to 3.

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

4.1 Operating modes

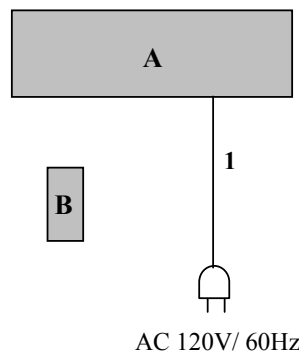
The EUT exercise program used during testing was designed exercise the various system components in a manner similar to typical use.

The sequence in used : * TV Reception + Rec. mode (0 dBmV input / 25 dBmV input)
* AV Input + 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	DV-PT100-S	—	Orion Electric Co., Ltd.	A7RM2E5D	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

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Section 5 : Conducted emission

5.1 Operation environment

The test was carried out in No.2 shielded room.

Date : September 18, 2004
Temperature : See data
Humidity : See data

5.2 Test configuration

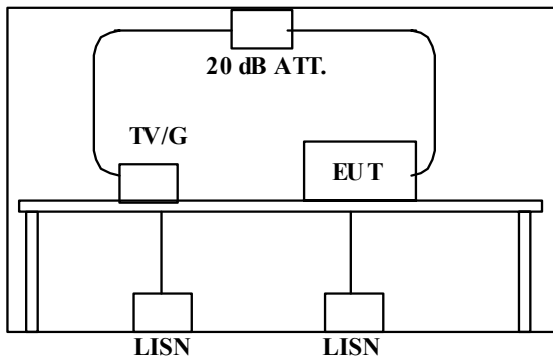
EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting plane. The rear of EUT was aligned and flushed with rear of tabletop. All other surfaces of tabletop was at least 80 cm from any 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)

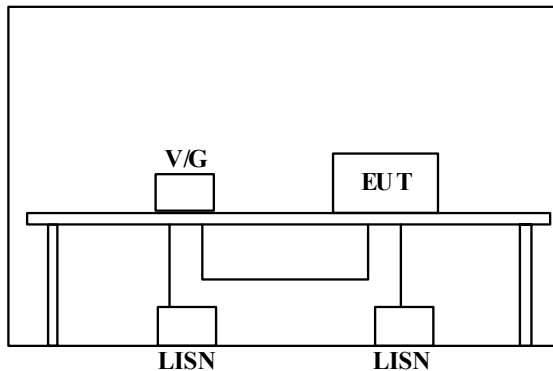
Shielded room



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

AV Input + 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

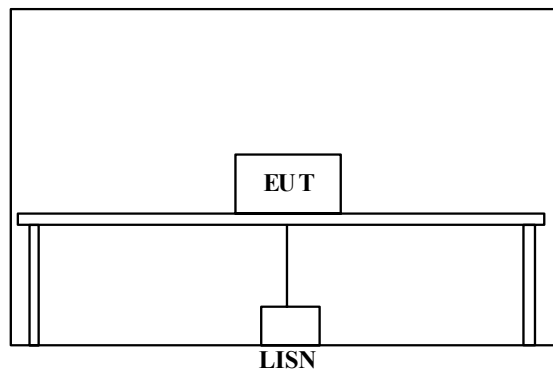
Component out (Y/P_B/P_R): 75 ohm terminated with
component cable

RF output: 75 ohm terminated with RF output cable

Coaxial out: 75 ohm terminated with coaxial cable

VCR 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: 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

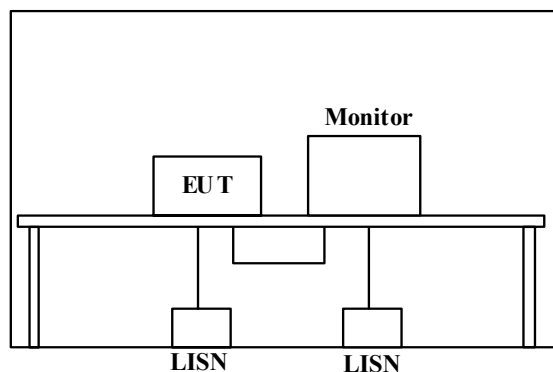
Component out (Y/P_B/P_R): 75 ohm terminated with
component cable

RF output: 75 ohm terminated with RF output cable

Coaxial out: 75 ohm terminated with coaxial cable

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

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5.3 Test conditions

Frequency range : 0.15 MHz – 30 MHz
EUT position : Table top
EUT operation mode : TV Reception + Rec., AV Input + 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: Tsubasa Takayama

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Section 6 : Radiated emission

6.1 Operation environment

The test was carried out in No.2 and No.3 open site.

Date : September 18 and 30, 2004
Temperature : See data
Humidity : See data

6.2 Test configuration

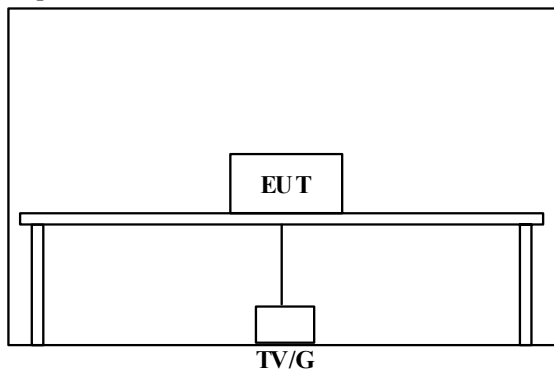
EUT was placed on a platform of nominal size, 1 m by 1.5 m (No.2 open site) or 1m by 2.3m (No.3 open site), raised 80 cm above the conducting ground plane.

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 photographs in Appendix 1.

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

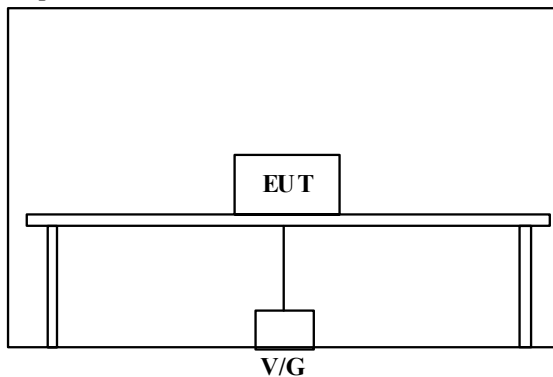
Open test site



RF in: TV signal generator connected or 75 ohm terminated
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 (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

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

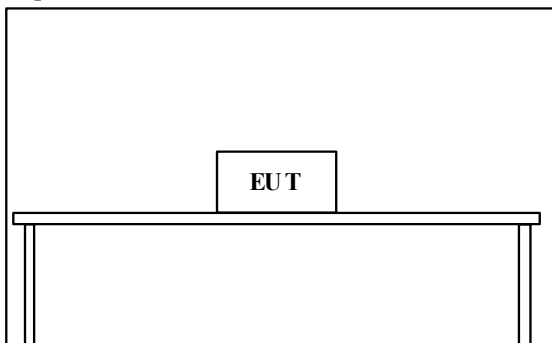
Open test site



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

VCR Play mode

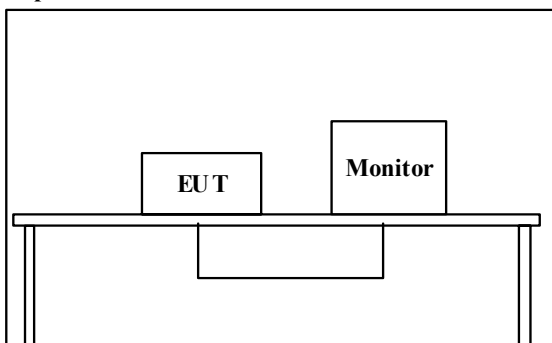
Open test site



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: 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

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

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 + 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.

	<u>30-1000MHz (Test receiver)</u>	<u>1000-2000MHz (Spectrum analyzer)</u>
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: Tsubasa Takayama

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Section 7 : Antenna terminal voltage

7.1 Operation environment

The test was carried out in No.7 shielded room.

Date : September 21, 2004

Temperature : See data

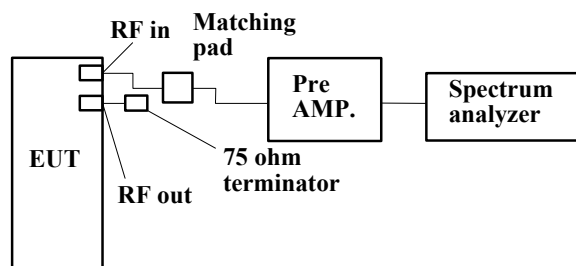
Humidity : See data

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 No.7 shielded room.

Date : September 21 and 22, 2004

Temperature : See data

Humidity : See data

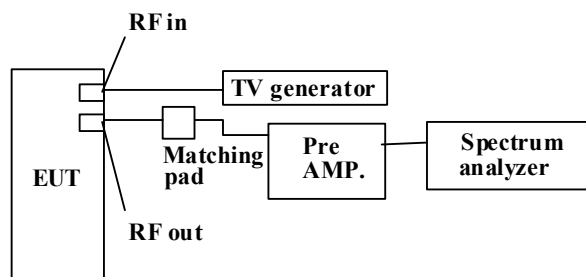
8.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.

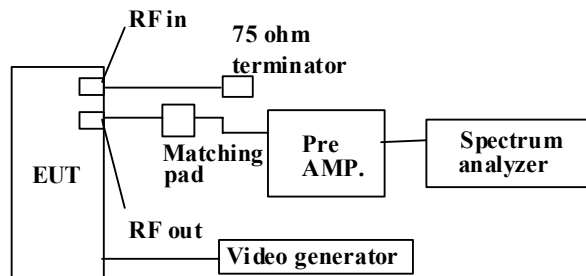
A drawing of the set up is shown in figure 4 and photographs in Appendix 1.

Figure 4. RF output level

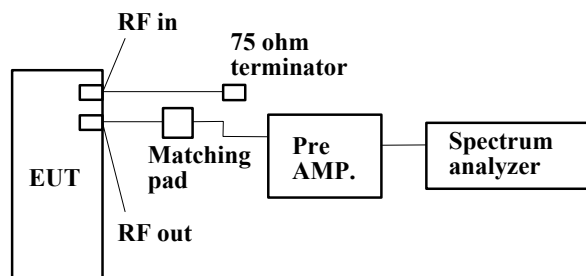
TV Reception + Rec. mode



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



VCR Play mode and DVD Play mode



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8.3 Test conditions

EUT position : Table top

EUT operation mode : TV Reception + Rec., AV Input + 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: Tsubasa Takayama

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Section 9 : Antenna transfer switch

9.1 Operation environment

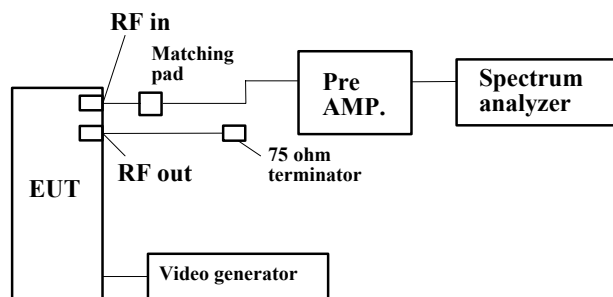
The test was carried out in No.7 shielded room.

Date : September 22, 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 + 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: Tsubasa Takayama

Section 10 : Picture sensitivity

10.1 Operation environment

The test was carried out in No.7 shielded room.

Date : September 24, 2004

Temperature : See data

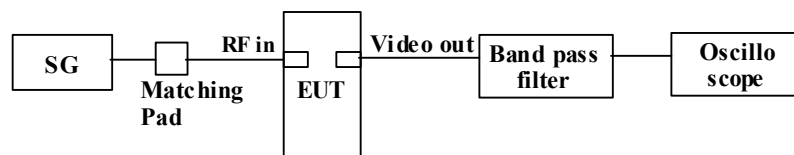
Humidity : See data

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

UL Apex Co., Ltd.

Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

Section 11 : Noise figure

11.1 Operating environment

The test was carried out in No.7 shielded room.

Date : September 24, 2004

Temperature : See data

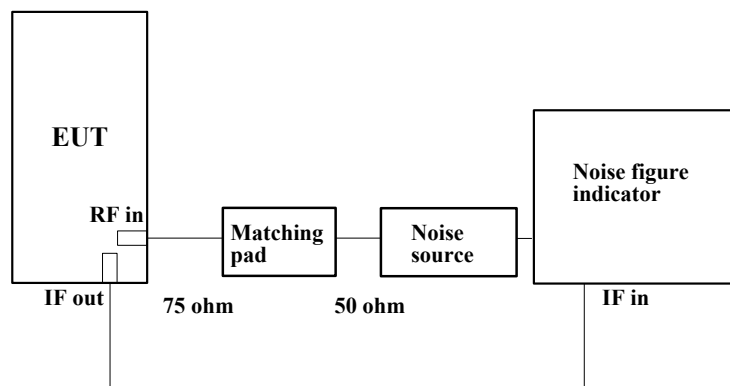
Humidity : See data

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

Page 20 :	Test set up of conducted emission
Page 21 :	Test set up of radiated emission
Page 22 :	Test set up of antenna terminal voltage
Page 23 :	Test set up of RF output level / spurious emission
Page 24 :	Test set up of antenna transfer switch
Page 25 :	Test set up of picture sensitivity
Page 26 :	Test set up of noise figure

Appendix 2 : Data of EMI tests

Page 27 - 46 :	Conducted emission
Page 45 - 67 :	Radiated emission
Page 68 - 69 :	Antenna terminal voltage
Page 70 - 85 :	RF output level / spurious emission
Page 86 - 93 :	Antenna transfer switch
Page 94 :	Picture sensitivity
Page 95 :	Noise figure

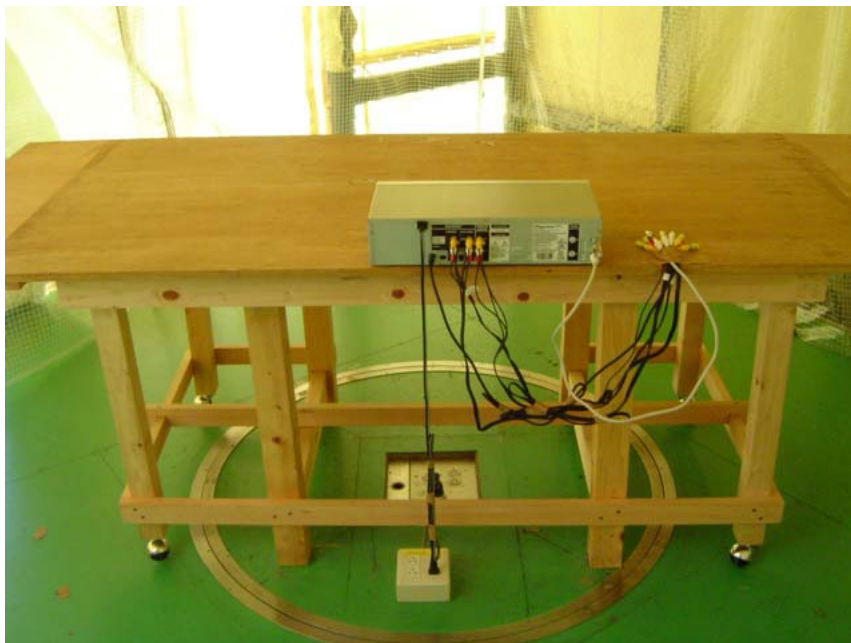
Appendix 3 : Test instruments

Page 96 :	Test instruments
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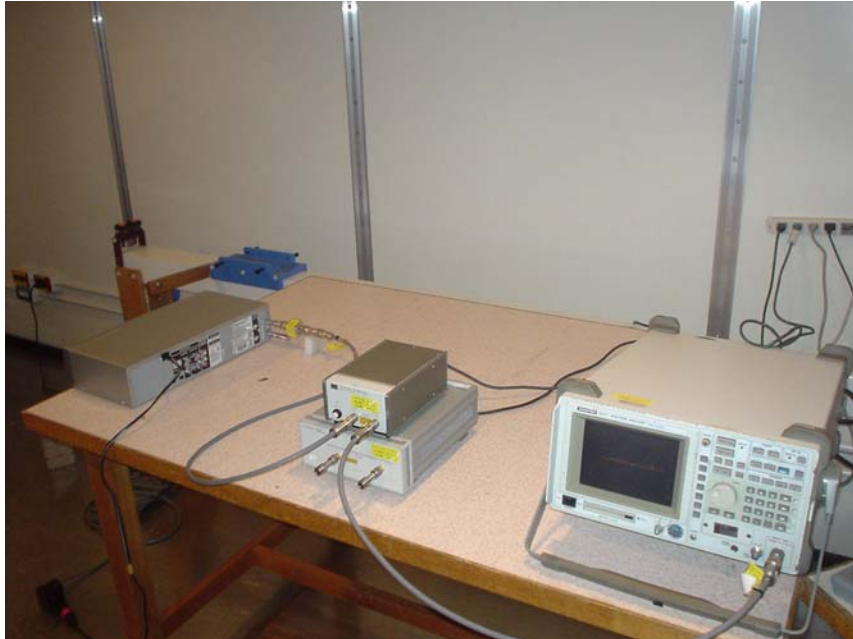
Conducted emission



Radiated emission



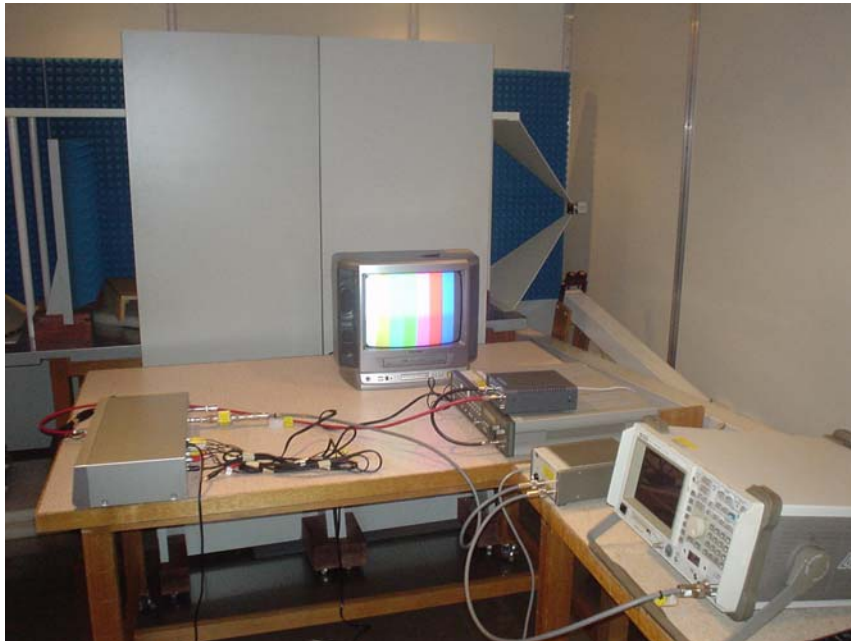
Antenna terminal voltage



UL Apex Co., Ltd.
Yokowa EMC Lab.

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Facsimile: +81 596 39 0232

RF output level / spurious emission



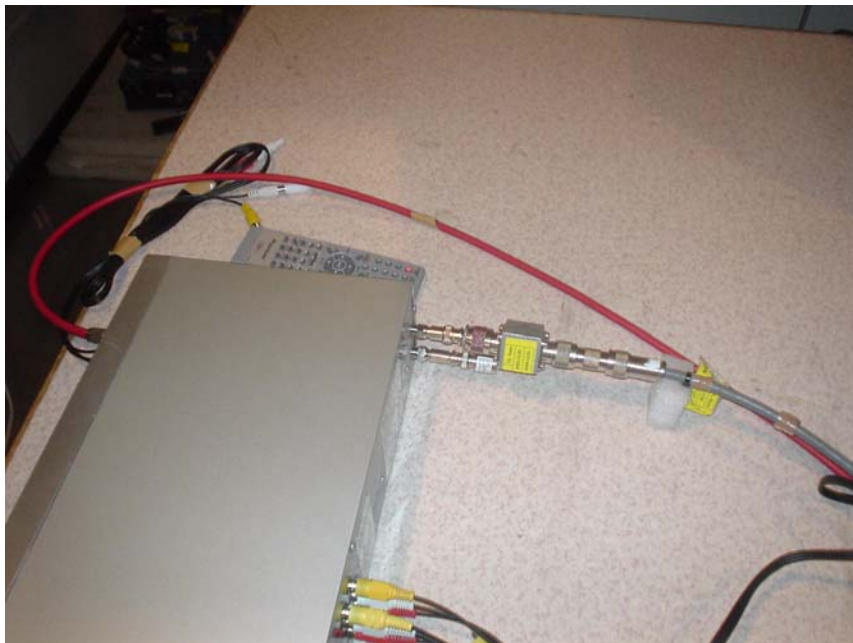
UL Apex Co., Ltd.
Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

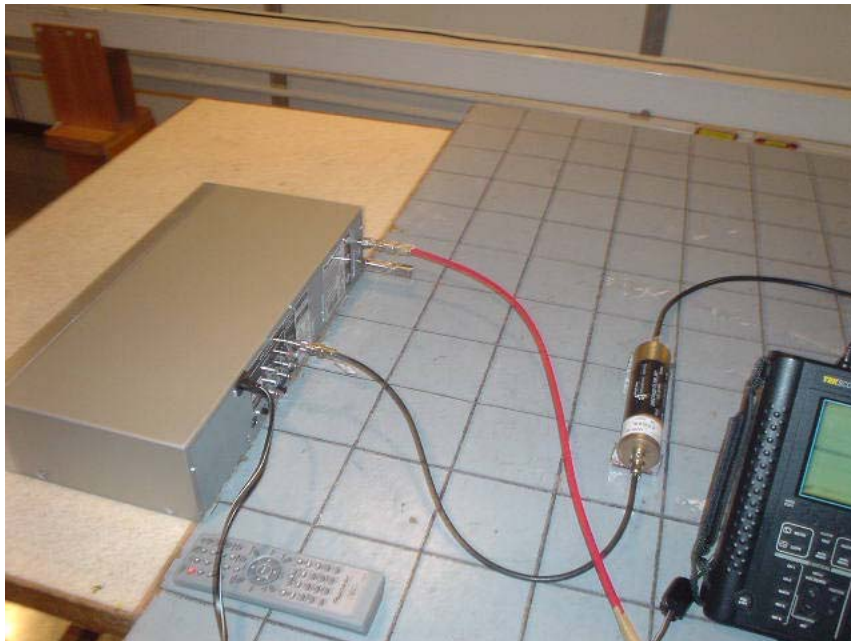
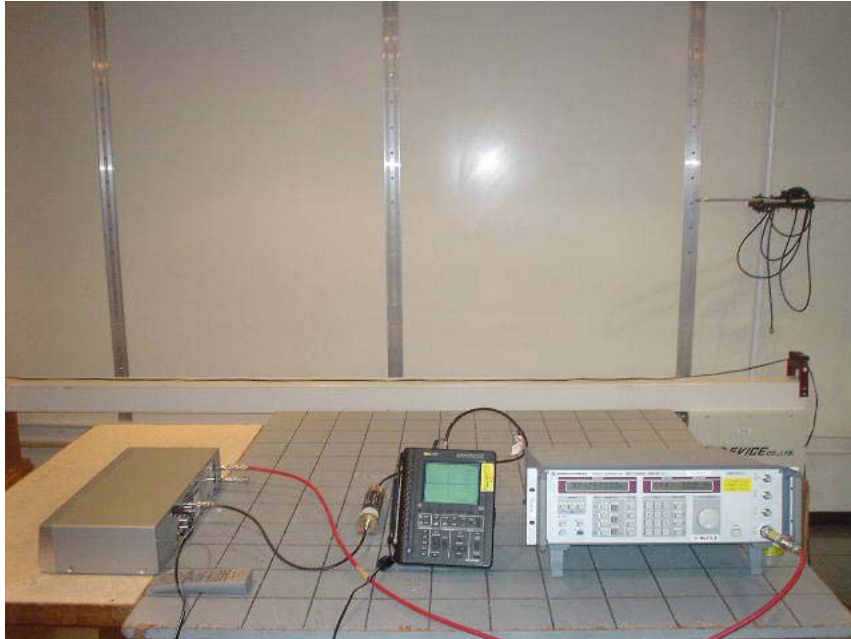
Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

Antenna transfer switch



Picture sensitivity



Noise figure



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(0dBmV)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27 Engineer : Tsubasa Takayama
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μV]	AV	QP [dB μV]	AV				QP [dB]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]
1.	0.1500	46.5	-	46.2	-	0.1	0.2	0.0	46.8	-	66.0	56.0	19.2	-
2.	0.2000	40.8	-	40.4	-	0.1	0.2	0.0	41.1	-	63.6	53.6	22.5	-
3.	0.3931	28.0	-	25.8	-	0.1	0.2	0.0	28.3	-	58.0	48.0	29.7	-
4.	0.9648	25.3	-	25.4	-	0.2	0.2	0.0	25.8	-	56.0	46.0	30.2	-
5.	1.1678	25.2	-	25.5	-	0.2	0.3	0.0	26.0	-	56.0	46.0	30.0	-
6.	14.2500	36.7	-	35.8	-	0.8	0.6	0.0	38.1	-	60.0	50.0	21.9	-
7.	27.0000	21.2	-	17.1	-	0.9	0.8	0.0	22.9	-	60.0	50.0	37.1	-

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

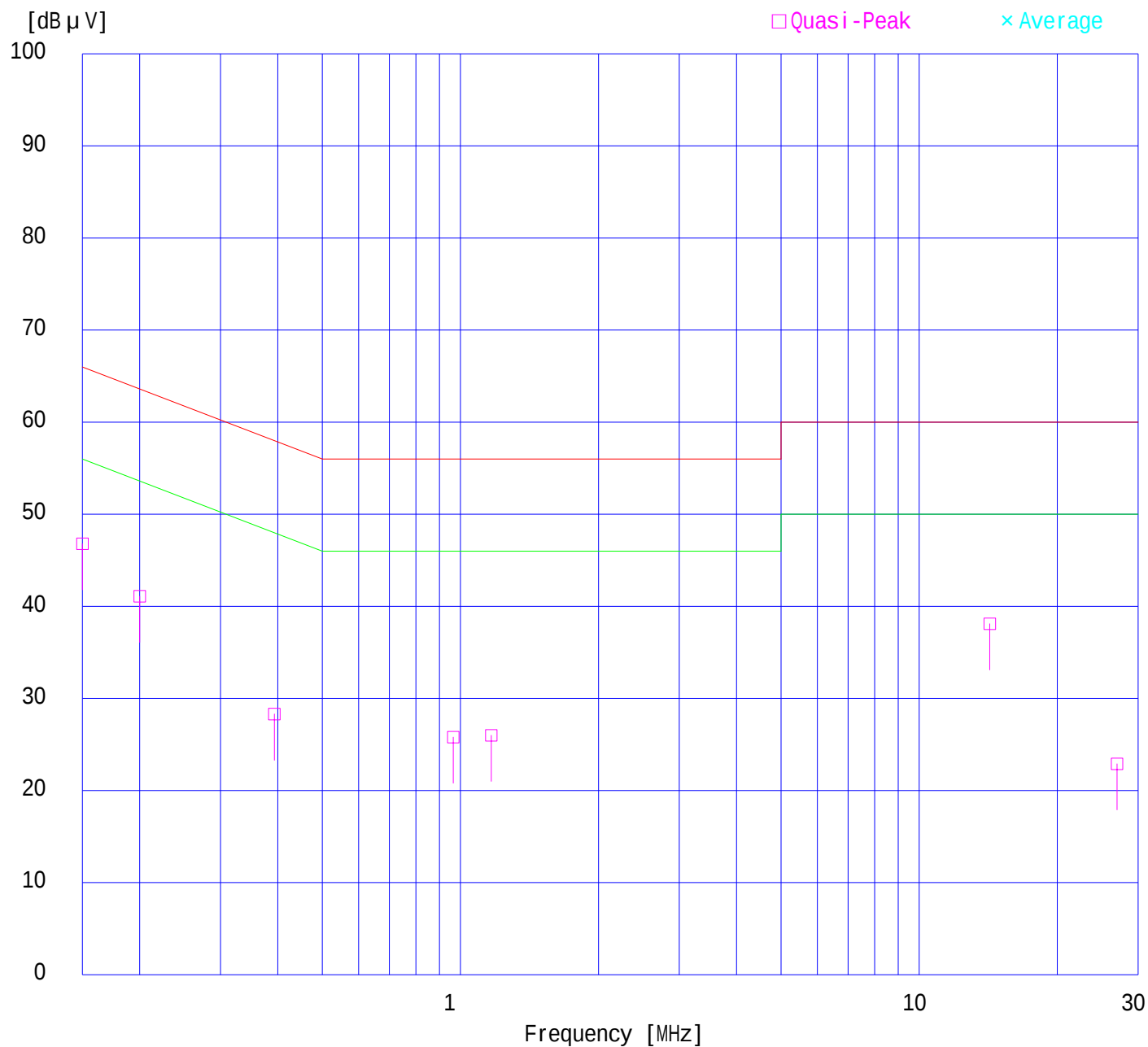
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(0dBmV)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST CHART

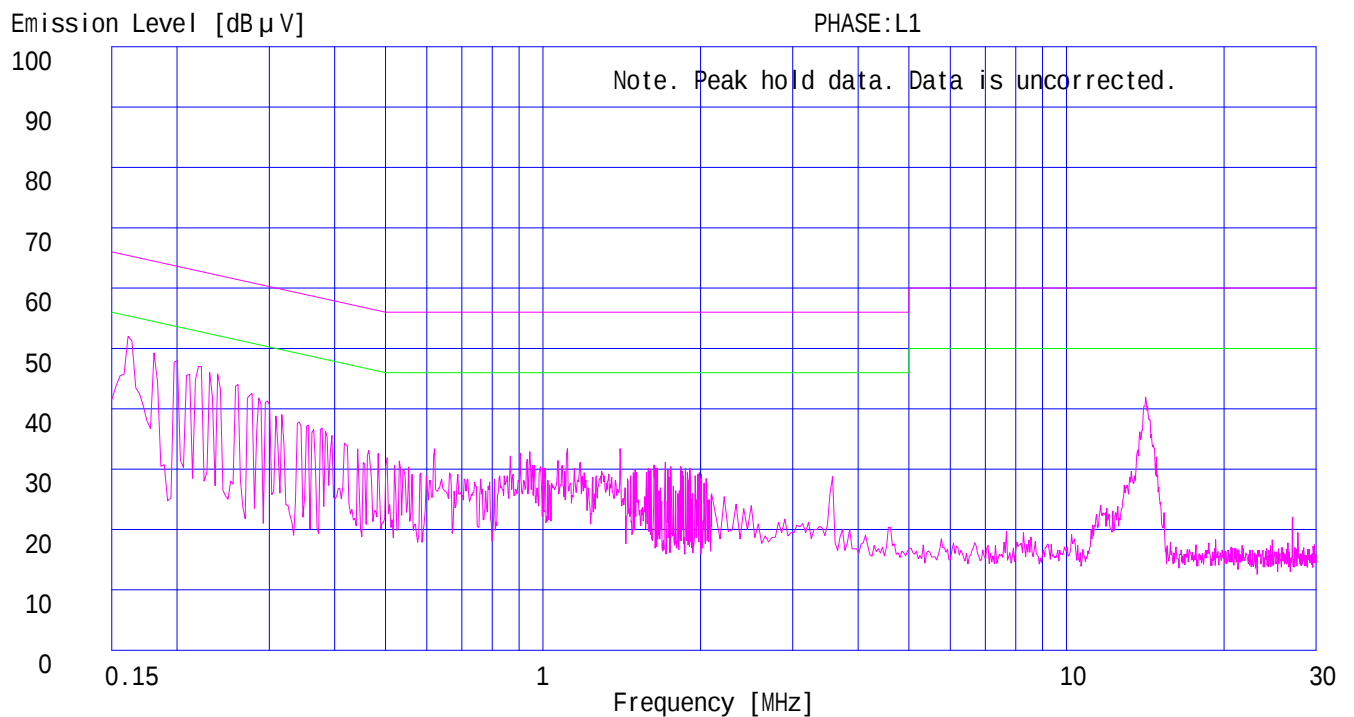
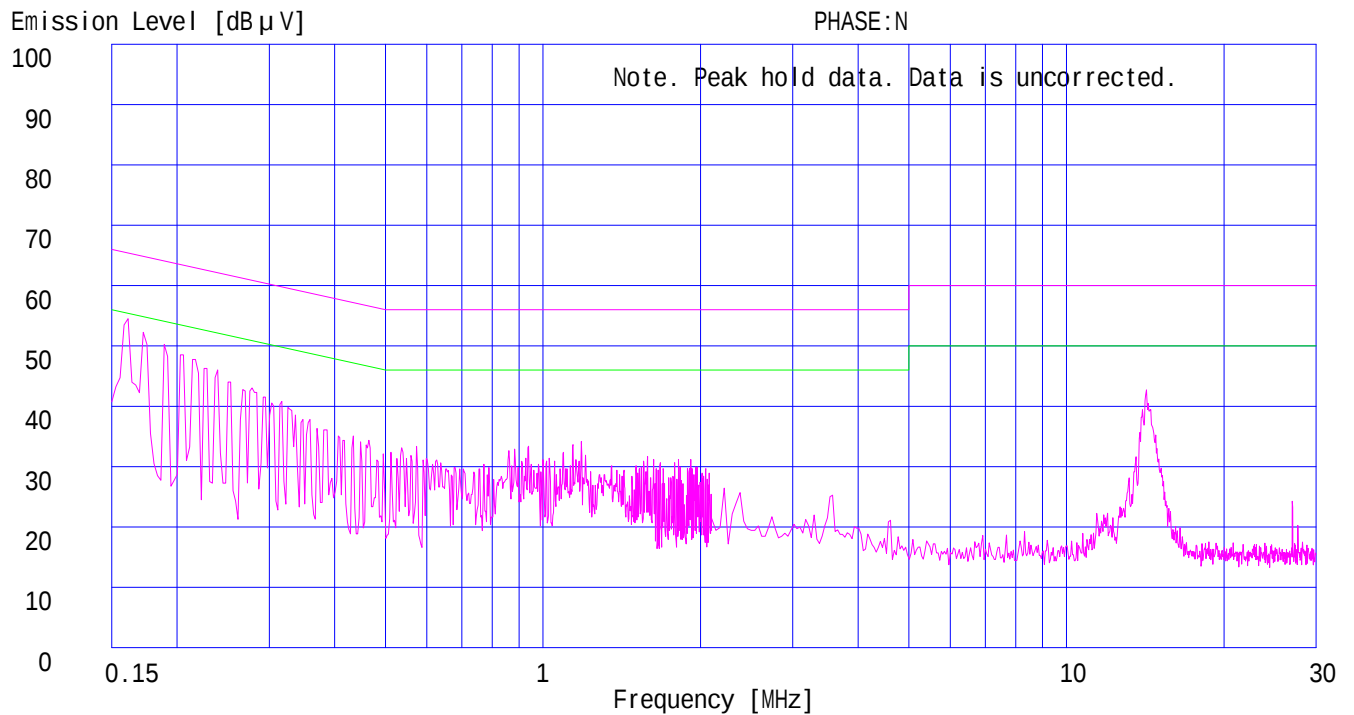
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(0dBmV)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation 1 : FCC Part15B CLASS B(2003)
Regulation 2 : None

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(25dBmV)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27 Engineer : Tsubasa Takayama
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	46.3	-	46.1	-	0.1	0.2	0.0	46.6	-	66.0	56.0	19.4	-
2.	0.2000	40.6	-	40.4	-	0.1	0.2	0.0	40.9	-	63.6	53.6	22.7	-
3.	0.3873	27.8	-	27.2	-	0.1	0.2	0.0	28.1	-	58.1	48.1	30.0	-
4.	0.8623	25.4	-	25.6	-	0.2	0.2	0.0	26.0	-	56.0	46.0	30.0	-
5.	1.1908	25.0	-	25.2	-	0.2	0.3	0.0	25.7	-	56.0	46.0	30.3	-
6.	14.2400	37.2	-	36.7	-	0.8	0.6	0.0	38.6	-	60.0	50.0	21.4	-
7.	27.0000	20.0	-	17.3	-	0.9	0.8	0.0	21.7	-	60.0	50.0	38.3	-

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

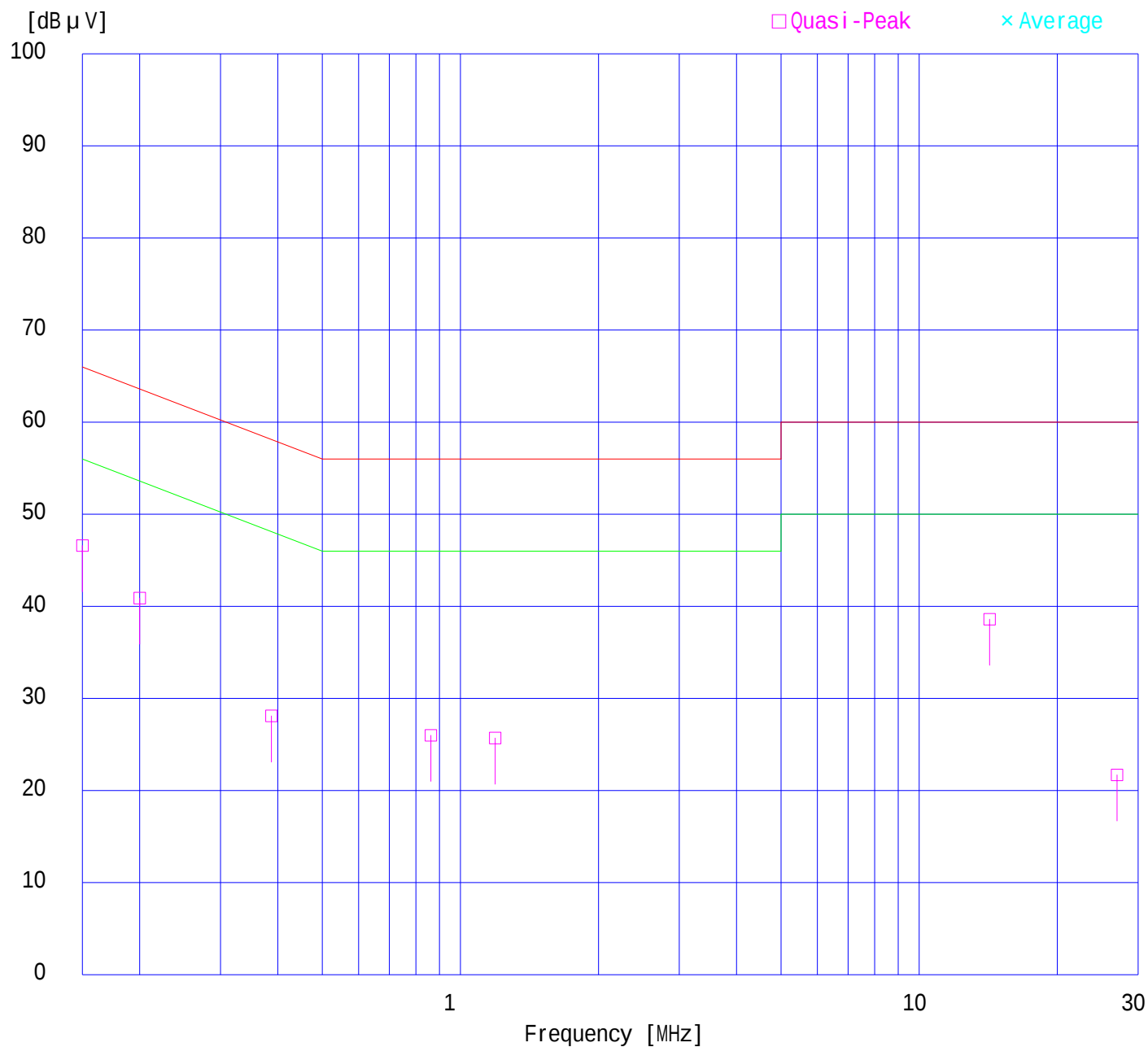
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DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(25dBmV)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST CHART

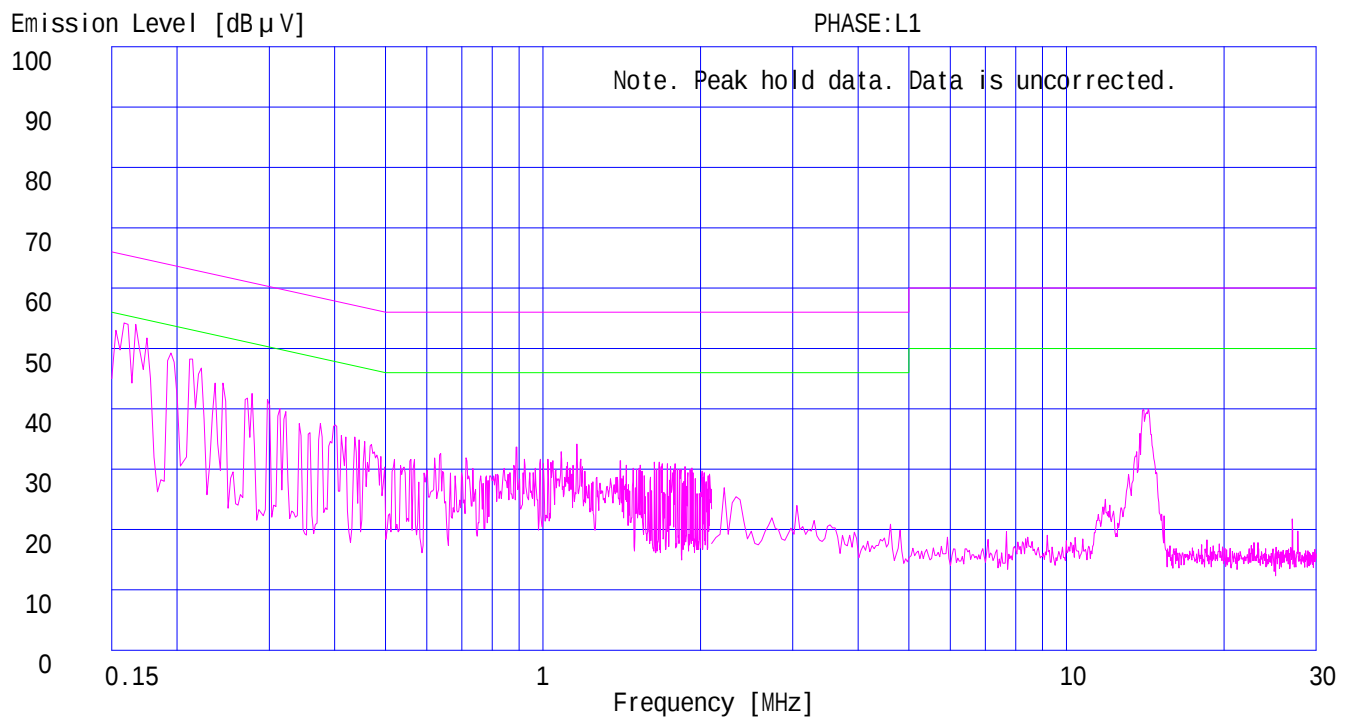
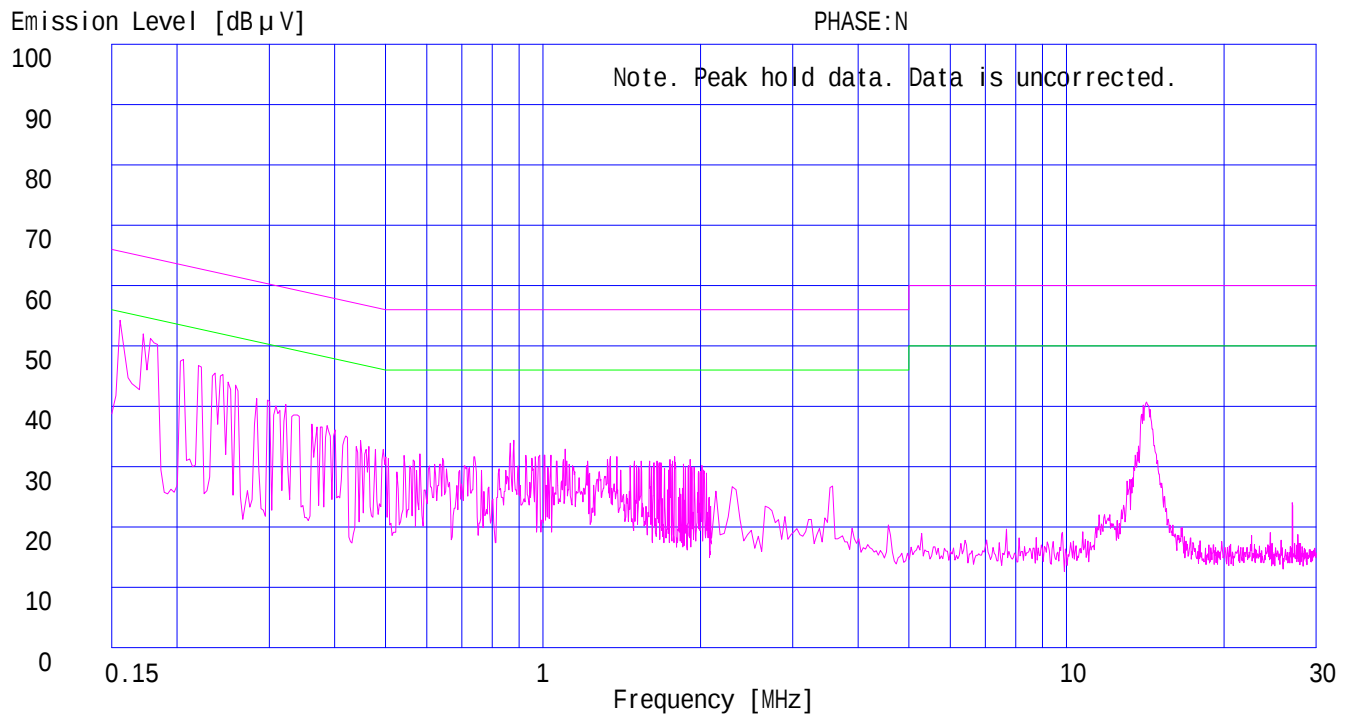
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(25dBmV)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation 1 : FCC Part15B CLASS B(2003)
Regulation 2 : None

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec(1Vp-p)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB μ V]	AV [dB]
1.	0.1500	46.4	-	46.0	-	0.1	0.2	0.0	46.7	-	66.0	56.0	19.3	-
2.	0.2000	40.8	-	40.3	-	0.1	0.2	0.0	41.1	-	63.6	53.6	22.5	-
3.	0.3985	28.1	-	27.7	-	0.1	0.2	0.0	28.4	-	57.9	47.9	29.5	-
4.	0.9421	26.0	-	25.6	-	0.2	0.2	0.0	26.4	-	56.0	46.0	29.6	-
5.	1.1000	25.8	-	25.9	-	0.2	0.3	0.0	26.4	-	56.0	46.0	29.6	-
6.	11.5600	20.5	-	19.2	-	0.7	0.6	0.0	21.8	-	60.0	50.0	38.2	-
7.	18.4338	33.4	-	33.1	-	1.1	0.7	0.0	35.2	-	60.0	50.0	24.8	-

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

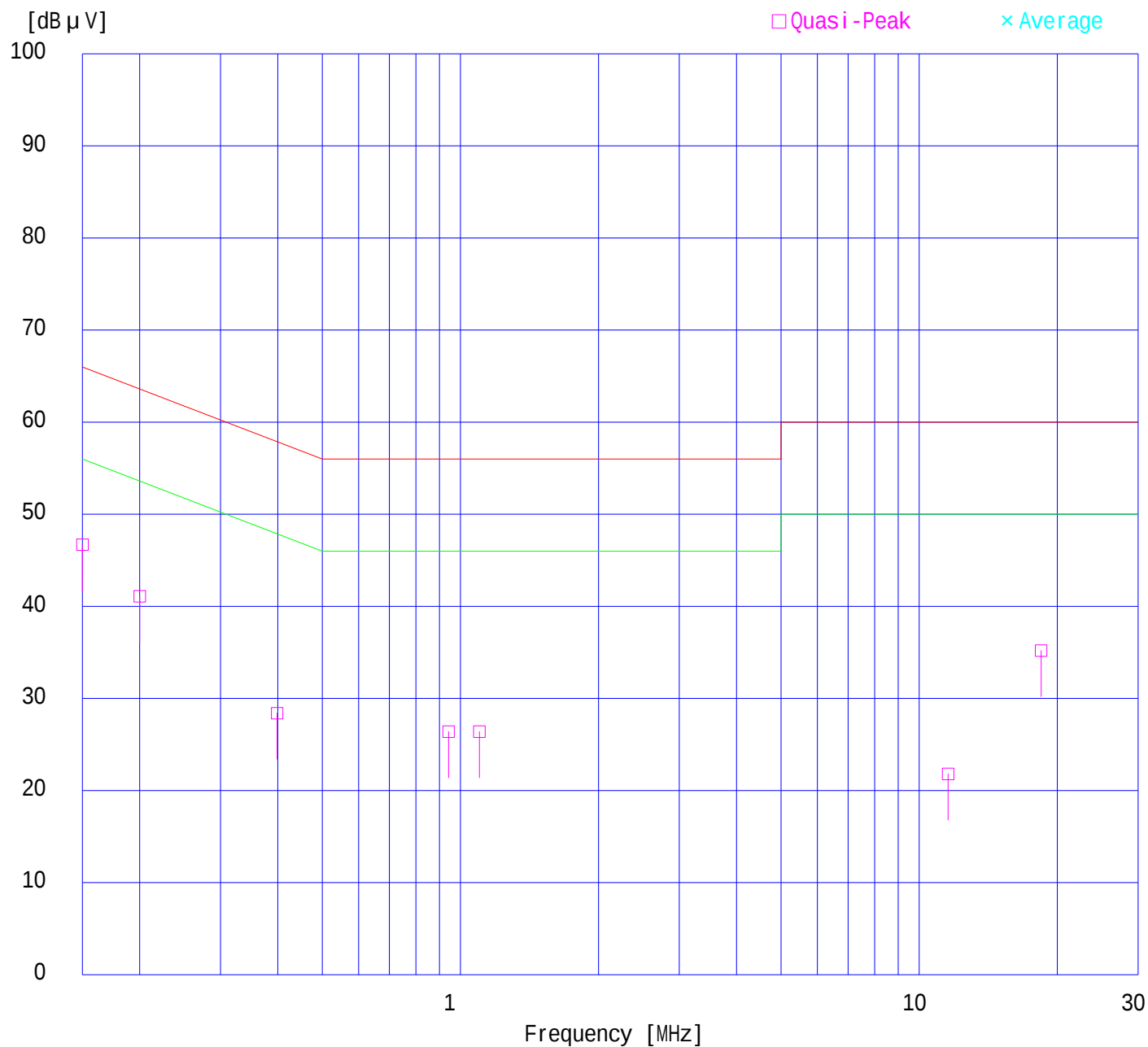
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DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec(1Vp-p)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST CHART

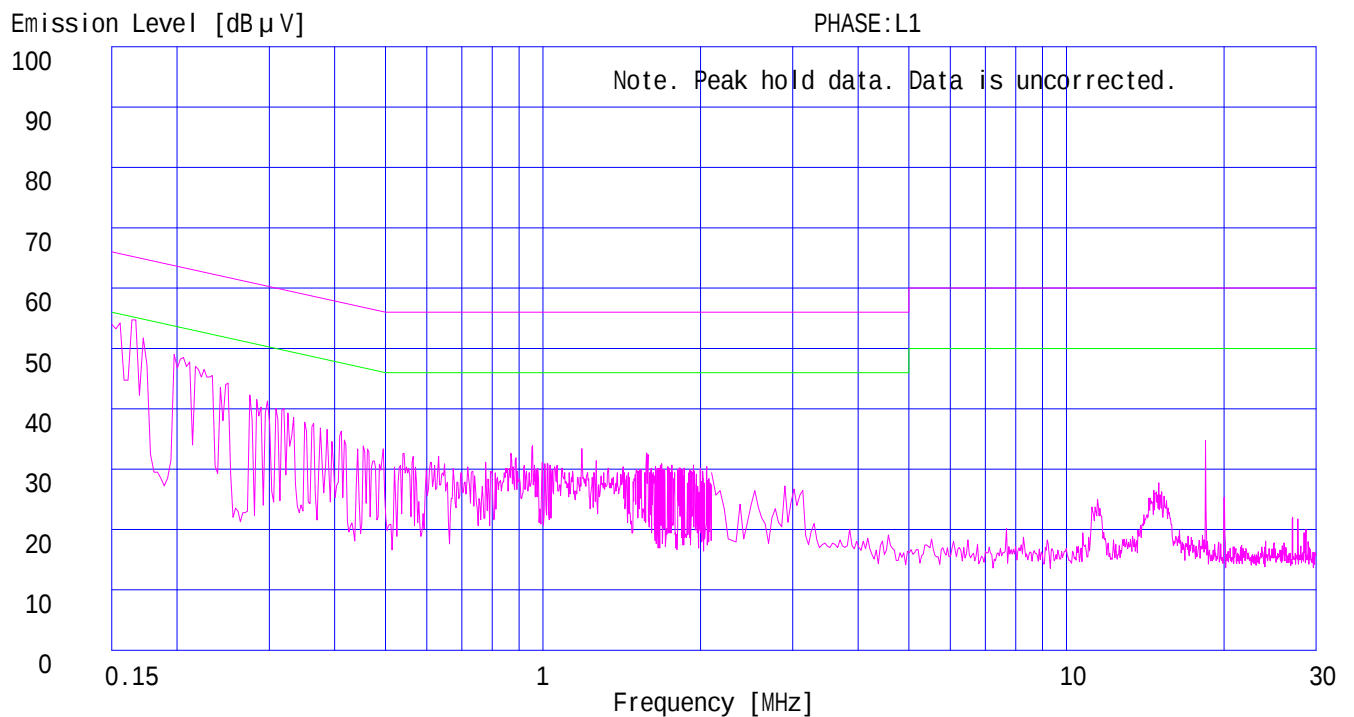
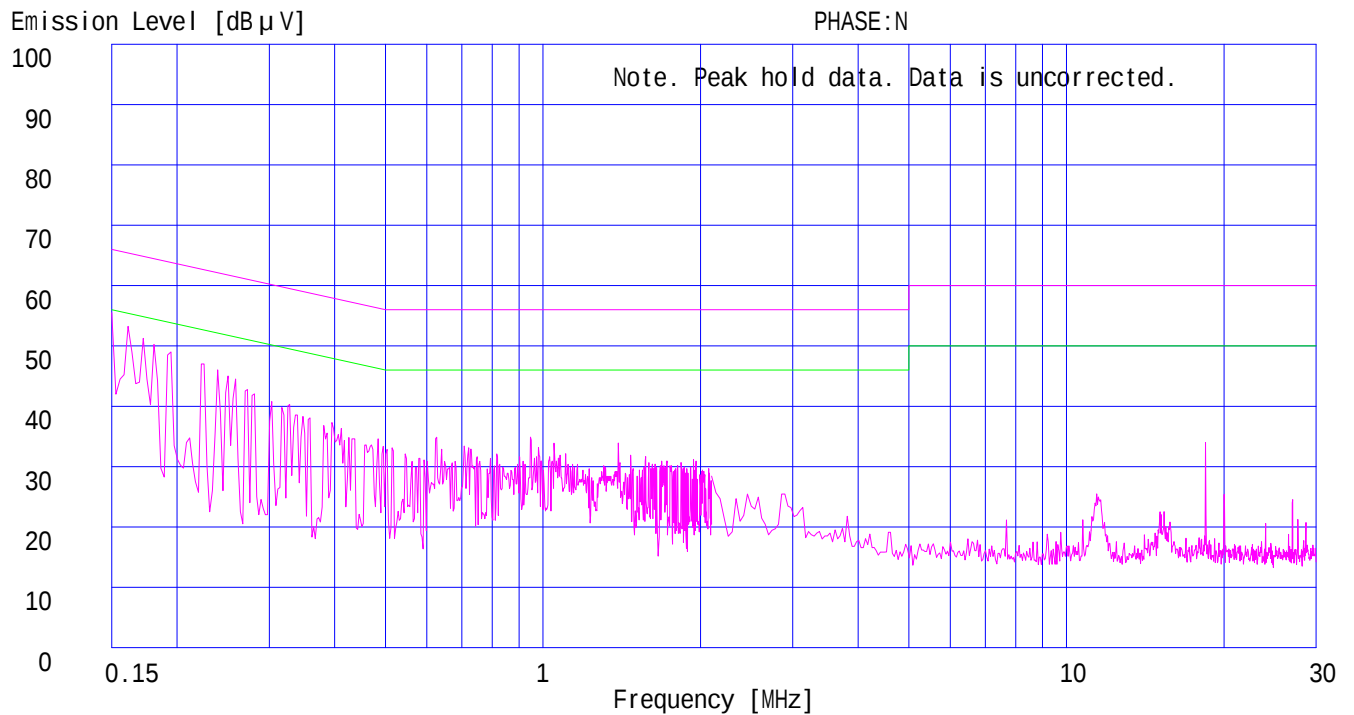
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec(1Vp-p)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation 1 : FCC Part15B CLASS B(2003)
Regulation 2 : None

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec(5Vp-p)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μV]	AV	QP [dB μV]	AV				QP [dB]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]
1.	0.1500	46.5	-	46.1	-	0.1	0.2	0.0	46.8	-	66.0	56.0	19.2	-
2.	0.2000	40.7	-	40.3	-	0.1	0.2	0.0	41.0	-	63.6	53.6	22.6	-
3.	0.3936	28.3	-	27.1	-	0.1	0.2	0.0	28.6	-	58.0	48.0	29.4	-
4.	0.8502	26.1	-	26.3	-	0.2	0.2	0.0	26.7	-	56.0	46.0	29.3	-
5.	1.3494	26.1	-	26.5	-	0.2	0.3	0.0	27.0	-	56.0	46.0	29.0	-
6.	3.0700	25.0	-	25.4	-	0.2	0.3	0.0	25.9	-	56.0	46.0	30.1	-
7.	11.4100	16.5	-	15.5	-	0.7	0.6	0.0	17.8	-	60.0	50.0	42.2	-
8.	18.4300	25.0	-	24.7	-	1.1	0.7	0.0	26.8	-	60.0	50.0	33.2	-

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

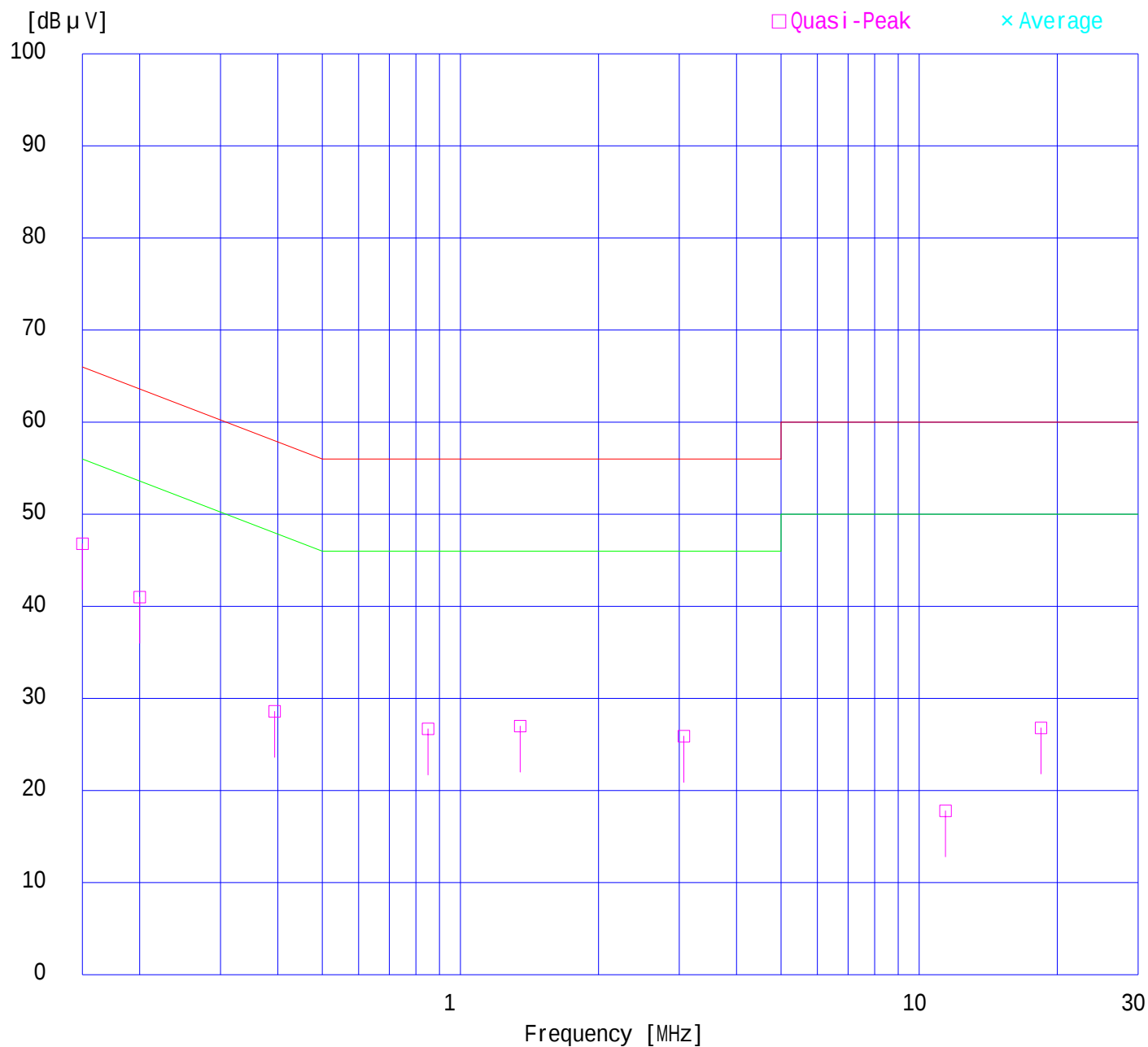
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec(5Vp-p)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST CHART

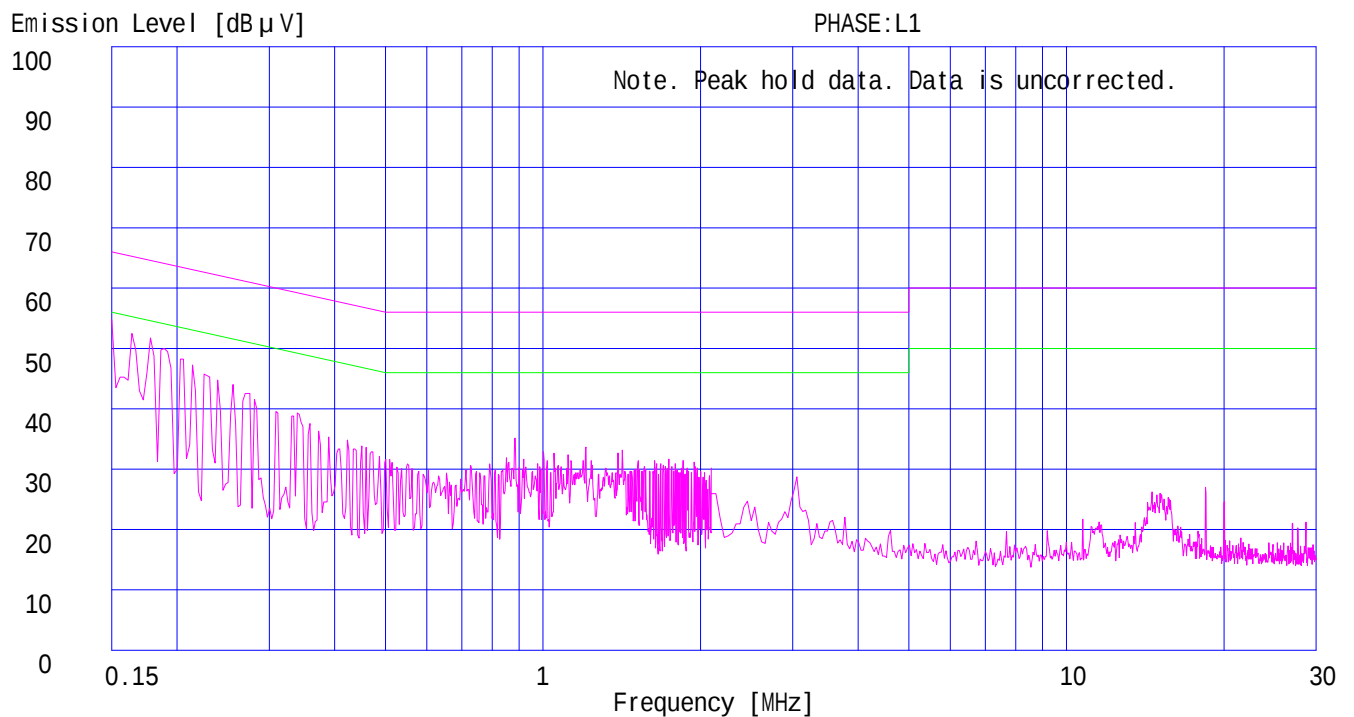
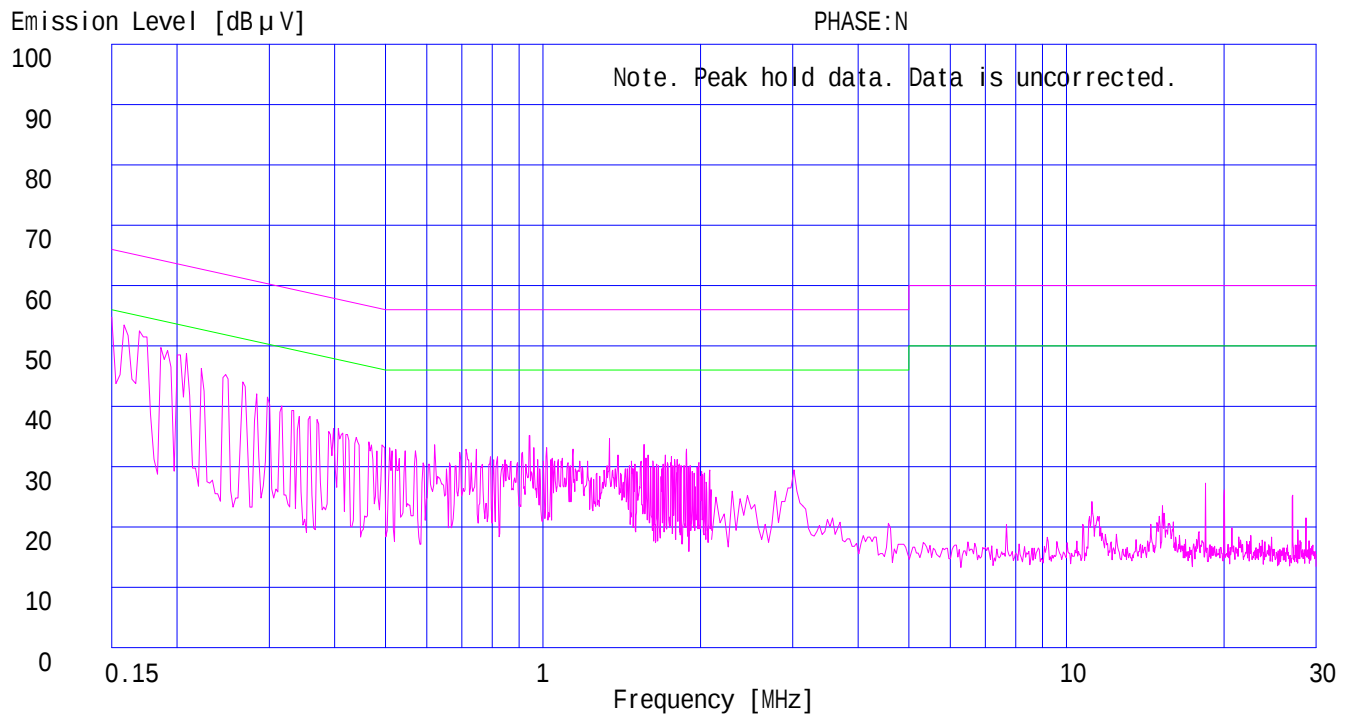
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec(5Vp-p)
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation 1 : FCC Part15B CLASS B(2003)
Regulation 2 : None

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]				QP [dB]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB]
1.	0.1500	46.3	-	46.0	-	0.1	0.2	0.0	46.6	-	66.0	56.0	19.4	-
2.	0.2000	40.7	-	40.3	-	0.1	0.2	0.0	41.0	-	63.6	53.6	22.6	-
3.	0.4050	27.1	-	26.6	-	0.1	0.2	0.0	27.4	-	57.8	47.8	30.4	-
4.	0.6586	23.1	-	22.7	-	0.2	0.2	0.0	23.5	-	56.0	46.0	32.5	-
5.	1.2367	23.4	-	23.5	-	0.2	0.3	0.0	24.0	-	56.0	46.0	32.0	-
6.	18.4311	24.9	-	25.3	-	1.1	0.7	0.0	27.1	-	60.0	50.0	32.9	-
7.	27.0000	21.3	-	16.3	-	0.9	0.8	0.0	23.0	-	60.0	50.0	37.0	-

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

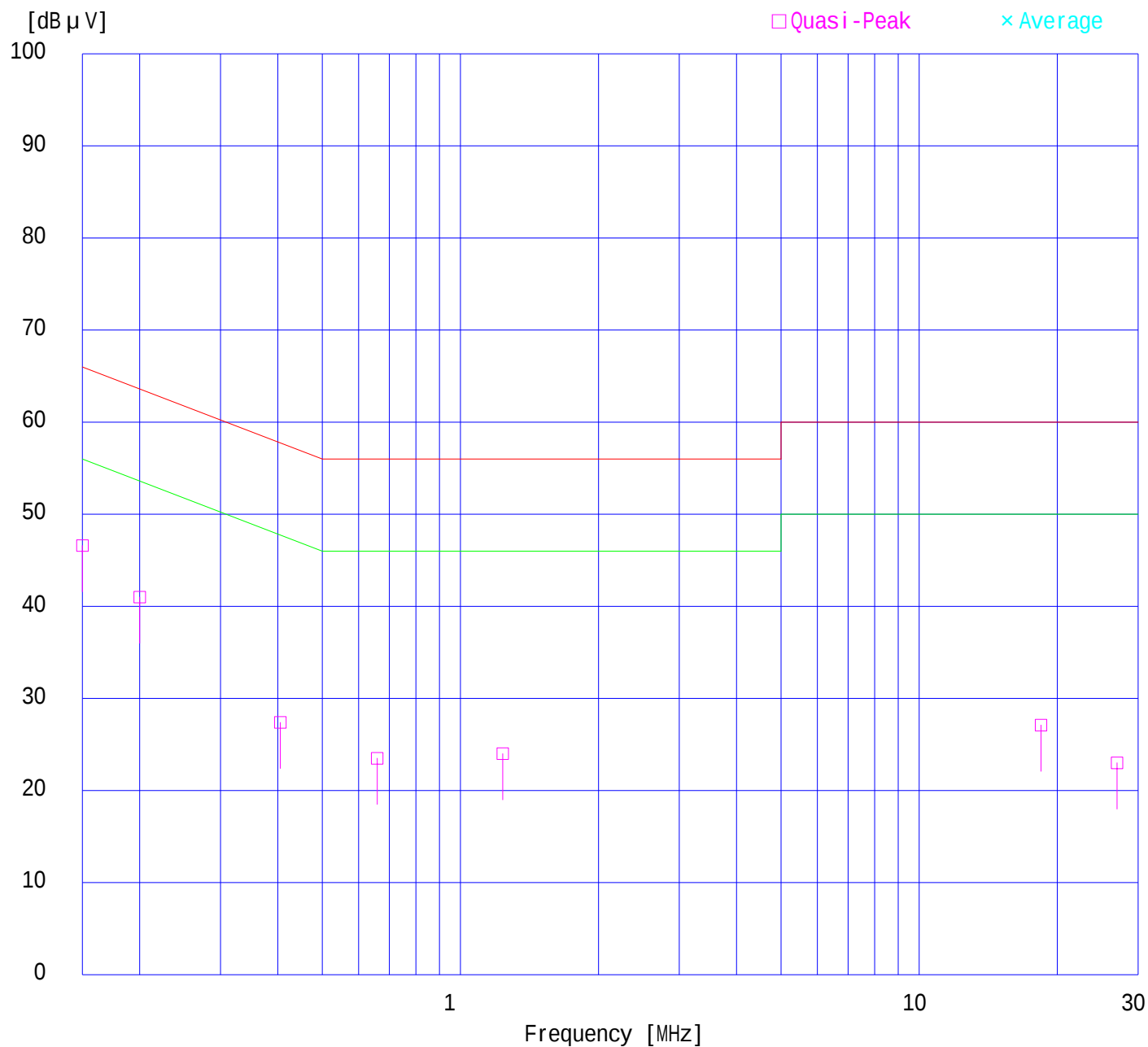
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST CHART

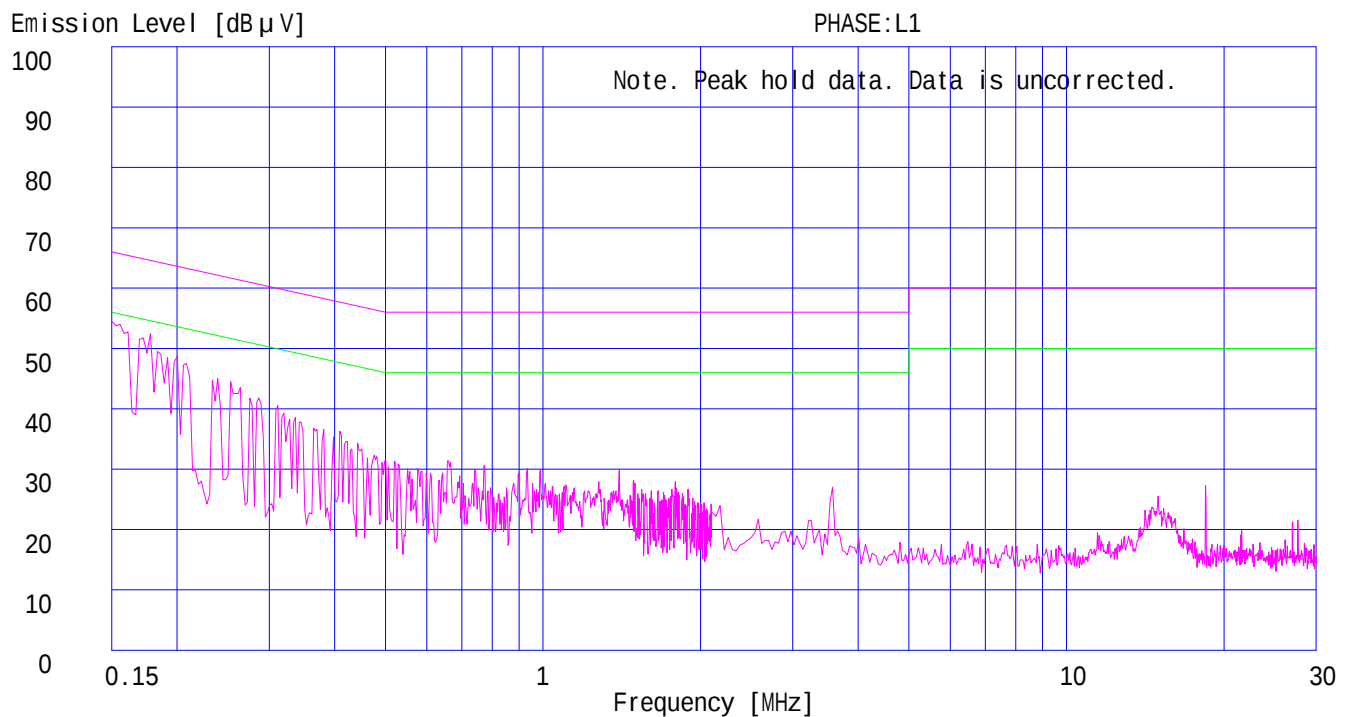
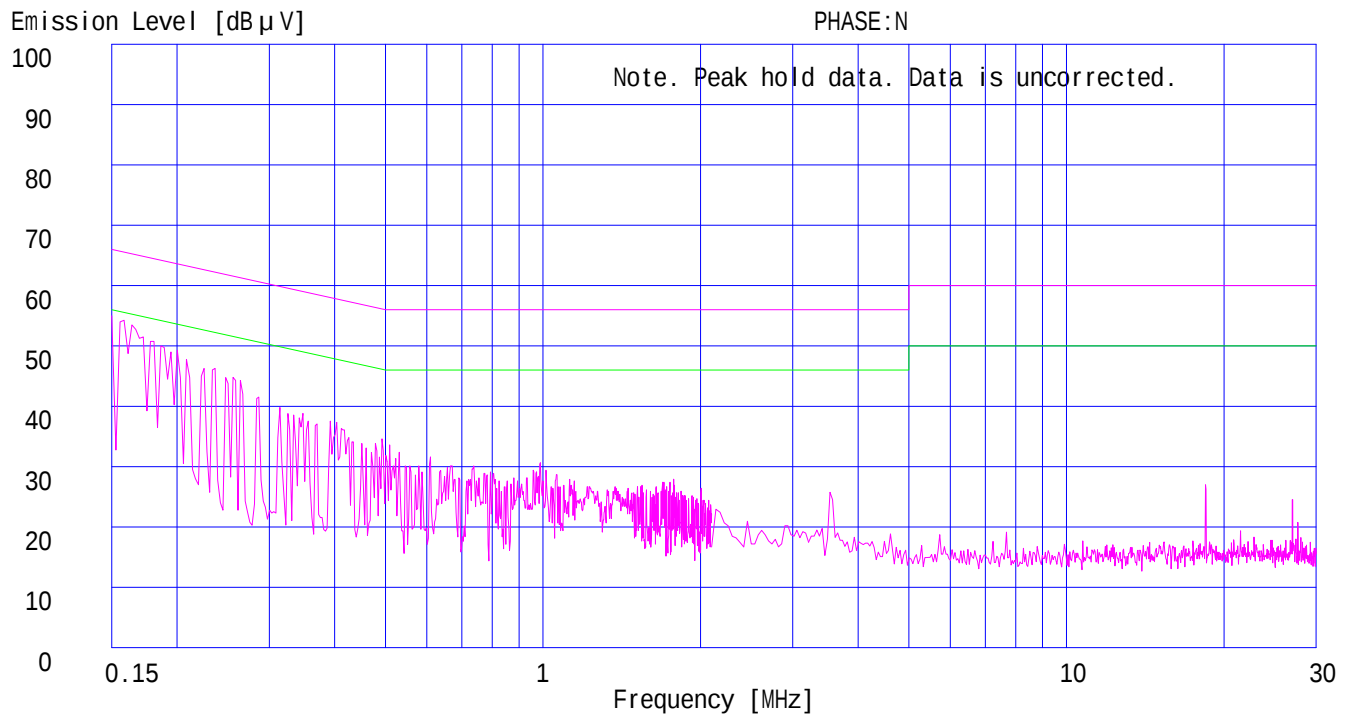
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation 1 : FCC Part15B CLASS B(2003)
Regulation 2 : None

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μV]	AV	QP [dB μV]	AV				QP [dB]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB]
1.	0.1500	46.3	-	46.0	-	0.1	0.2	0.0	46.6	-	66.0	56.0	19.4	-
2.	0.1700	44.0	-	43.5	-	0.1	0.2	0.0	44.3	-	65.0	55.0	20.7	-
3.	0.4700	26.6	-	28.8	-	0.1	0.2	0.0	29.1	-	56.5	46.5	27.4	-
4.	1.4340	23.4	-	22.7	-	0.2	0.3	0.0	23.9	-	56.0	46.0	32.1	-
5.	3.5500	34.6	-	34.7	-	0.2	0.3	0.0	35.2	-	56.0	46.0	20.8	-
6.	17.3847	30.0	-	29.7	-	1.0	0.7	0.0	31.7	-	60.0	50.0	28.3	-
7.	24.0000	30.4	-	30.2	-	1.0	0.8	0.0	32.2	-	60.0	50.0	27.8	-
8.	28.6342	35.8	-	36.4	-	0.9	0.8	0.0	38.1	-	60.0	50.0	21.9	-

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

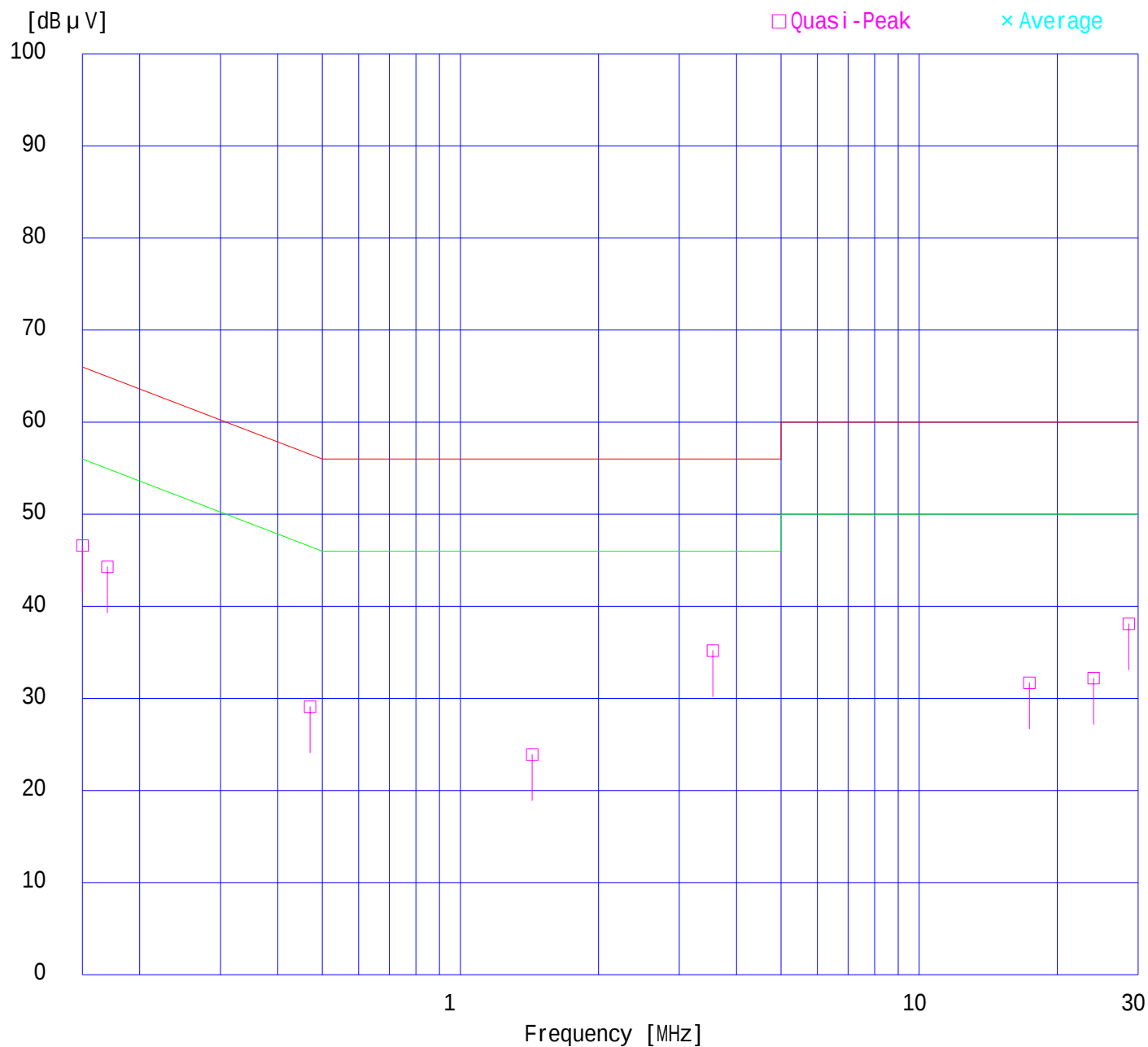
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST CHART

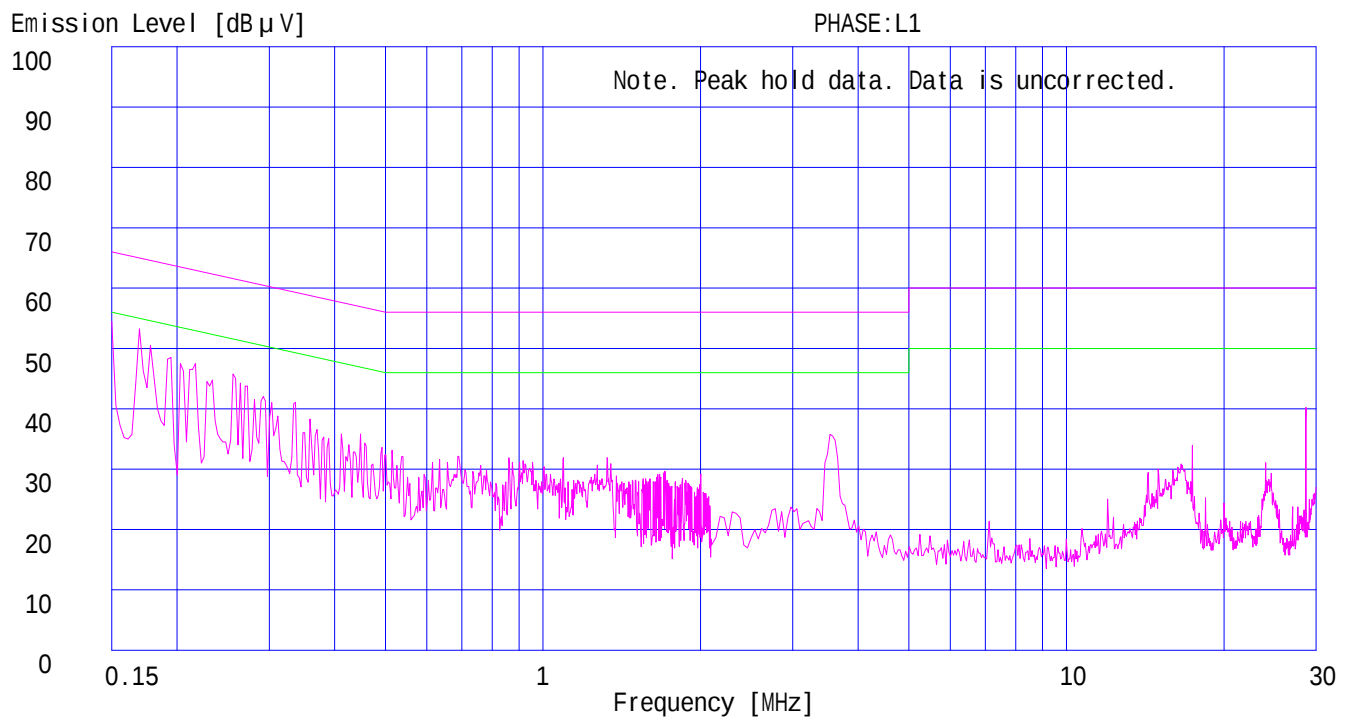
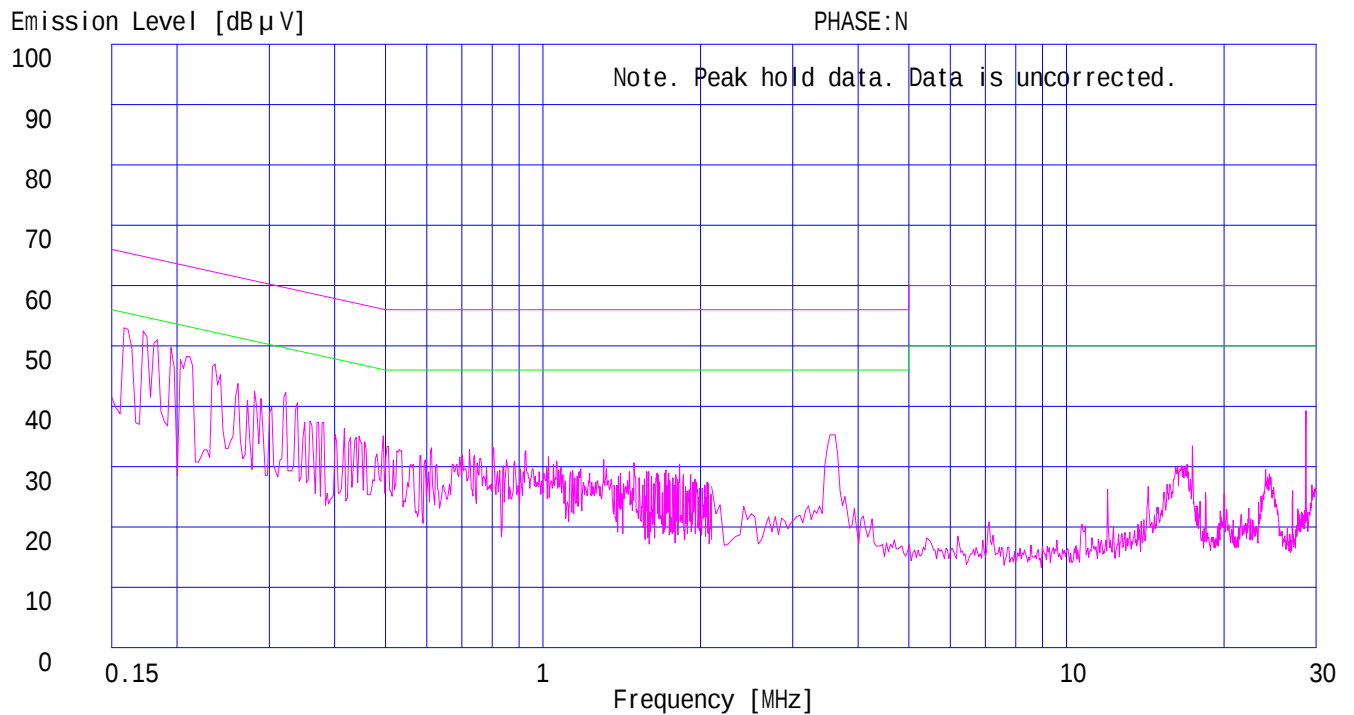
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 9/18/2004
Phase : Single Phase
Temperature : 27
Humidity : 56 %
Regulation 1 : FCC Part15B CLASS B(2003)
Regulation 2 : None

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : DV-PT100-S
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25BE0271-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2004/09/18
TEMP./HUMID. : 23deg.C / 50%
ENGINEER : Tsubasa Takayama

*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	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]			
VHF																	
2	101	23.1	23.5			BC	-9.8	13.3	13.7			43.5		30.2	29.8		
	202					BC						43.5		>15.0			
	303					LO						46.0					
	404					LO						46.0					
	505					LO						46.0					
	606					LO						46.0					
	707					LO						46.0					
	808					LO						46.0					
	909					LO						46.0					
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)						
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[dBuV/m]	[dBuV/m]	HOR. VER.	HOR. VER.						
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]						
	1010			HO				74.0	54.0	>27.0	>10.0						
	1111			HO				74.0	54.0								
	1212			HO				74.0	54.0								
	1313			HO				74.0	54.0								
	1414			HO				74.0	54.0								
	1515			HO				74.0	54.0								
	1616	HO	74.0	54.0													
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]			
3	107	22.4	23.6			BC	-8.9	13.5	14.7			43.5		30.0	28.8		
	214					BC						43.5		> 15.0			
	321					LO						46.0					
	428					LO						46.0					
	535					LO						46.0					
	642					LO						46.0					
	749					LO						46.0					
	856					LO						46.0					
	963					LO						54.0					
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)						
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[dBuV/m]	[dBuV/m]	HOR. VER.	HOR. VER.						
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]						
	1070			HO				74.0	54.0	>27.0	>10.0						
	1177			HO				74.0	54.0								
	1284			HO				74.0	54.0								
	1391			HO				74.0	54.0								
	1498			HO				74.0	54.0								
	1605			HO				74.0	54.0								
	CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)		
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]			
4	113	22.7	23.9			BC	-7.9	14.8	16.0			43.5		28.7	27.5		
	226					BC						46.0		> 15.0			
	339					LO						46.0					
	452					LO						46.0					
	565					LO						46.0					
	678					LO						46.0					
	791					LO						46.0					
	904					LO						46.0					
						READING(PK)						READING(AV)					ANT
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[dBuV/m]	[dBuV/m]	HOR. VER.	HOR. VER.						
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]						
	1017			HO				74.0	54.0	>27.0	>10.0						
	1130			HO				74.0	54.0								
	1243			HO				74.0	54.0								
	1356			HO				74.0	54.0								
	1469			HO				74.0	54.0								
	1582			HO				74.0	54.0								

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : DV-PT100-S
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25BE0271-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2004/09/18
TEMP./HUMID. : 23deg.C / 50%
ENGINEER : Tsubasa Takayama

*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. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
VHF											
5	123	23.3	24.8			BC	-6.5	16.8	18.3		
	246					BC					
	369					LO					
	492					LO					
	615					LO					
	738					LO					
	861					LO					
	984					LO					
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1107			HO				74.0	54.0	>27.0	>10.0
	1230			HO				74.0	54.0		
	1353			HO				74.0	54.0		
	1476			HO				74.0	54.0		
	1599			HO				74.0	54.0		
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
6	129	23.1	25.3			BC	-6.2	16.9	19.1		
	258					BC					
	387					LO					
	516					LO					
	645					LO					
	774					LO					
	903					LO					
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1032			HO				74.0	54.0	>27.0	>10.0
	1161			HO				74.0	54.0		
	1290			HO				74.0	54.0		
	1419			HO				74.0	54.0		
	1548			HO				74.0	54.0		
	1677			HO				74.0	54.0		
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
7	221	24.1	23.5			BC	-2.1	22.0	21.4		
	442			LO						>15.0	
	663			LO							
	884			LO							
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1105			HO				74.0	54.0	>27.0	>10.0
	1326			HO				74.0	54.0		
	1547			HO				74.0	54.0		
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
8	227	24.7	23.8			BC	-2.1	22.6	21.7		
	454			LO						>15.0	
	681			LO							
	908			LO							
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1135			HO				74.0	54.0	>27.0	>10.0
	1362			HO				74.0	54.0		
	1589			HO				74.0	54.0		

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : DV-PT100-S
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25BE0271-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2004/09/18
TEMP./HUMID. : 23deg.C / 50%
ENGINEER : Tsubasa Takayama

*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	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]	[dB]		
VHF																	
9	233	25.9	23.4			BC	-1.9	24.0	21.5			46.0		22.0	24.5		
	466					LO						46.0		> 15.0			
	699									46.0							
	932									46.0							
		READING(PK)	VER.	READINNG(AV)	VER.	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)				
		HOR.		HOR.		TYPE		HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.		
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]		
	1165					HO						74.0	54.0	>27.0		>10.0	
1398					HO		74.0			54.0							
1631					HO		74.0			54.0							
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]		[dB]	
10	239	26.5	23.6			BC	-1.7	24.8	21.9			46.0		21.2	24.1		
	478					LO						46.0		> 15.0			
	717									46.0							
	956									46.0							
		READING(PK)	VER.	READINNG(AV)	VER.	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)				
		HOR.		HOR.		TYPE		HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.		
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]		
	1195					HO						74.0	54.0	>27.0		>10.0	
1434					HO		74.0			54.0							
1673					HO		74.0			54.0							
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]		[dB]	
11	245	27.5	24.6			BC	-1.6	25.9	23.0			46.0		20.1	23.0		
	490					LO						46.0		> 15.0			
	735									46.0							
	980									54.0							
		READING(PK)	VER.	READINNG(AV)	VER.	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)				
		HOR.		HOR.		TYPE		HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.		
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]		
	1225					HO						74.0	54.0	>27.0		>10.0	
1470					HO		74.0			54.0							
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]		[dB]	
12	251	28.2	26.1			BC	-1.4	26.8	24.7			46.0		19.2	21.3		
	502					LO						46.0		> 15.0			
	753									46.0							
										54.0							
		READING(PK)	VER.	READINNG(AV)	VER.	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)				
		HOR.		HOR.		TYPE		HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.		
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]		
	1004					HO						74.0	54.0	>27.0		>10.0	
1255					HO		74.0			54.0							
1506					HO		74.0			54.0							
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]		[dB]	
13	257	28.6	25.7			BC	-1.0	27.6	24.7			46.0		18.4	21.3		
	514					LO						46.0		> 15.0			
	771									46.0							
		READING(PK)	VER.	READINNG(AV)	VER.	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)				
		HOR.		HOR.		TYPE		HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.		
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]		
	1028					HO						74.0	54.0	>27.0		>10.0	
1285					HO		74.0			54.0							
1542					HO		74.0			54.0							

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : DV-PT100-S
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25BE0271-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2004/09/18
TEMP./HUMID. : 23deg.C / 50%
ENGINEER : Tsubasa Takayama

*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. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
UHF											
14	517	25.2 25.6		LO	3.2	28.4 28.8		46.0		17.6 17.2	
		READING(PK) HOR. VER. [dBuV]	READINNG(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1034			HO	-11.7			74.0	54.0	>27.0	>10.0
19	547	25.5 26.8		LO	3.5	29.0 30.3		46.0		17.0 15.7	
		READING(PK) HOR. VER. [dBuV]	READINNG(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1094			HO	-11.3			74.0	54.0	>27.0	>10.0
28	601	25.3 27.1		LO	4.4	29.7 31.5		46.0	-	16.3 14.5	
		READING(PK) HOR. VER. [dBuV]	READINNG(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1202			HO	-10.6			74.0	54.0	>27.0	>10.0
36	649	30.3 25.7		LO	5.2	35.5 30.9		46.0	-	10.5 15.1	
		READING(PK) HOR. VER. [dBuV]	READINNG(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1298			HO	-9.8			74.0	54.0	>27.0	>10.0
44	697	28.6 26.0		LO	5.9	34.5 31.9		46.0	-	11.5 14.1	
		READING(PK) HOR. VER. [dBuV]	READINNG(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1394			HO	-9.1			74.0	54.0	>27.0	>10.0
53	751	27.0 26.1		LO	7.6	34.6 33.7		46.0	-	11.4 12.3	
		READING(PK) HOR. VER. [dBuV]	READINNG(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1502			HO	-8.4			74.0	54.0	>27.0	>10.0
61	799	25.8 25.9		LO	9.2	35.0 35.1		46.0	-	11.0 10.9	
		READING(PK) HOR. VER. [dBuV]	READINNG(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1598			HO	-6.6			74.0	54.0	>27.0	>10.0
69	847	23.5 26.0		LO	9.6	33.1 35.6		46.0	-	12.9 10.4	
		READING(PK) HOR. VER. [dBuV]	READINNG(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1694			HO	-4.9			74.0	54.0	>27.0	>10.0

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : DV-PT100-S
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25BE0271-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2004/09/18
TEMP./HUMID. : 23deg.C / 50%
ENGINEER : Tsubasa Takayama

*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	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR.	VER.		TYPE	[dBuV]	HOR.	VER.		[QP]		HOR.	VER.	
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]	[dB]	
CATV														
1	119	23.4	25.3		BC	-7.0	16.4	18.3		43.5		27.1	25.2	
	238				BC					46.0		>15.0		
	357				LO					46.0				
	476				LO					46.0				
	595				LO					46.0				
	714				LO					46.0				
	833				LO					46.0				
	952	LO	46.0											
		READING(PK)	READING(NNG(AV	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
	[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]		
	1071			HO					74.0	54.0	>27.0	>10.0		
	1190			HO					74.0	54.0				
	1309			HO					74.0	54.0				
	1428			HO					74.0	54.0				
	1547			HO					74.0	54.0				
	1666			HO					74.0	54.0				
	CH.	FREQ	READING(QP)		ANT	C.Factor	RESULT(QP)		LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.		TYPE	[dBuV]	HOR. VER.		[QP]		HOR. VER.				
		[dBuV]				[dBuV/m]		[dBuV/m]		[dB]	[dB]			
95	137	22.1	23.7		BC	-5.5	16.6	18.2		43.5		26.9	25.3	
	274				BC					46.0		>15.0		
	411				LO					46.0				
	548				LO					46.0				
	685				LO					46.0				
	822				LO					46.0				
	959				LO					46.0				
		READING(PK)	READING(NNG(AV	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
	1096			HO					74.0	54.0	>27.0	>10.0		
	1233			HO					74.0	54.0				
	1370			HO					74.0	54.0				
	1507			HO					74.0	54.0				
	1644			HO					74.0	54.0				
	CH.	FREQ	READING(QP)		ANT	C.Factor	RESULT(QP)		LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.		TYPE	[dBuV]	HOR. VER.		[QP]		HOR. VER.				
		[dBuV]				[dBuV/m]		[dBuV/m]		[dB]	[dB]			
97	149	23.1	23.9		BC	-4.8	18.3	19.1		43.5		25.2	24.4	
	298				BC					46.0		>15.0		
	447				LO					46.0				
	596				LO					46.0				
	745				LO					46.0				
	894				LO					46.0				
		READING(PK)	READING(NNG(AV	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
		1043			HO					-	-	74.0	54.0	>27.0
1192		HO			-					-	74.0	54.0		
1341		HO			-					-	74.0	54.0		
1490		HO			-					-	74.0	54.0		
1639		HO			-					-	74.0	54.0		
CH.		FREQ	READING(QP)		ANT	C.Factor	RESULT(QP)		LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.		TYPE	[dBuV]	HOR. VER.		[QP]		HOR. VER.				
		[dBuV]				[dBuV/m]		[dBuV/m]		[dB]	[dB]			
99	161	22.5	23.7		BC	-4.2	18.3	19.5		43.5		25.2	24.0	
	322				LO					46.0		>15.0		
	483				LO					46.0				
	644				LO					46.0				
	805				LO					46.0				
	966				LO					46.0				
		READING(PK)	READING(NNG(AV	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
		1127			HO					74.0	54.0	>27.0	>10.0	
1288		HO			74.0					54.0				
1449		HO			74.0					54.0				
1610		HO			74.0					54.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : DV-PT100-S
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25BE0271-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2004/09/18
TEMP./HUMID. : 23deg.C / 50%
ENGINEER : Tsubasa Takayama

*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	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)					
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]	HOR.	VER.				
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]	[dB]			
CATV																		
14	167	22.3	22.1			BC	-3.8	18.5	18.3			43.5		25.0	25.2			
	334					LO						46.0	>15.0					
	501					LO						46.0						
	668					LO						46.0						
	835					LO						46.0						
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)		
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	[dB]	[dB]
	1002					HO						74.0	54.0	>27.0	>10.0			
	1169					HO						74.0	54.0					
1336	HO						74.0					54.0						
1503	HO						74.0					54.0						
1670	HO			74.0		54.0												
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)				
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]		[dB]		
18	191	22.2	22.4			BC	-2.8	19.4	19.6			43.5		24.1	23.9			
	382					LO						46.0	>15.0					
	573					LO						46.0						
	764					LO						46.0						
	955					LO						46.0						
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)		
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	[dB]	[dB]
	1146					HO						74.0	54.0	>27.0	>10.0			
	1337					HO						74.0	54.0					
1528	HO						74.0					54.0						
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT			MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]		[dB]		
22	215	22.0	22.3			BC	-2.4	19.6	19.9			43.5		23.9	23.6			
	430					LO						46.0	>15.0					
	645					LO						46.0						
	860					LO						46.0						
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)		
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	[dB]	[dB]
	1075					HO						74.0	54.0	>27.0	>10.0			
	1290					HO						74.0	54.0					
	1505					HO						74.0	54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT			MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]		[dB]		
23	263	23.1	22.8			BC	-0.6	22.5	22.2			46.0	46.0	23.5	23.8			
	526					LO						46.0	46.0					
	789					LO						46.0	46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)		
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	[dB]	[dB]
	1052					HO						74.0	54.0	>27.0	>10.0			
	1315					HO						74.0	54.0					
	1578					HO						74.0	54.0					
	CH.	FREQ		READING(QP)				ANT		C.Factor		RESULT(QP)					LIMIT	
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]		[dB]		
29	299	22.8	23.4			BC	1.9	24.7	25.3			46.0	46.0	21.3	20.7			
	598					LO						46.0	46.0	>15.0				
	897					LO						46.0	46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)		
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	HOR.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	[dB]	[dB]
	1196					HO						74.0	54.0	>27.0	>10.0			
	1495					HO						74.0	54.0					

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : DV-PT100-S
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25BE0271-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2004/09/18
TEMP./HUMID. : 23deg.C / 50%
ENGINEER : Tsubasa Takayama

*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. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]			
CATV															
36	341	23.9	22.3		LO	-0.2	23.7	22.1		46.0	46.0	22.3	23.9		
	682				LO					46.0	46.0	>15.0			
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]		
	1023				HO	-11.8				74.0	54.0	>27.0		>10.0	
	1364				HO	-9.4				74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]			
37	347	24.0	24.5		LO	-0.1	23.9	24.4		46.0	46.0	22.1	21.6		
	694				LO					46.0	46.0	>15.0			
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]		
	1041				HO	-11.7				74.0	54.0	>27.0		>10.0	
	1388				HO	-9.2				74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]			
65	515	27.2	27.6		LO	3.1	30.3	30.7		46.0	46.0	15.7	15.3		
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]		
	1030				HO	-11.7				74.0	54.0	>27.0		>10.0	
	1545				HO	-7.6				74.0	54.0				
	CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
94	689	26.7	27.3		LO	5.8	32.5	33.1		46.0	46.0	13.5	12.9		
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]		
	1378				HO	-9.2				74.0	54.0	>27.0		>10.0	
	CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
	100	695	26.3	27.4		LO	5.9	32.2	33.3		46.0	46.0	13.8	12.7	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]		
1390					HO	-9.1				74.0	54.0	>27.0		>10.0	
CH.		FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
113		773	25.5	27.3		LO	8.3	33.8	35.6		46.0	46.0	12.2	10.4	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]		
	1546				HO	-7.6				74.0	54.0	>27.0		>10.0	
	CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
	125	845	24.4	25.3		LO	9.6	34.0	34.9		46.0	46.0	12.0	11.1	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]		
1690					HO	-4.9				74.0	54.0	>27.0		>10.0	

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : TV Reception+Rec(0dBmV)
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]			HOR [dB]	VER [dB]
1.	135.00	BB	37.0	45.0	14.5	29.8	2.6	5.9	30.2	38.2	43.5	13.3	5.3	

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

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

DATA OF RADIATION TEST

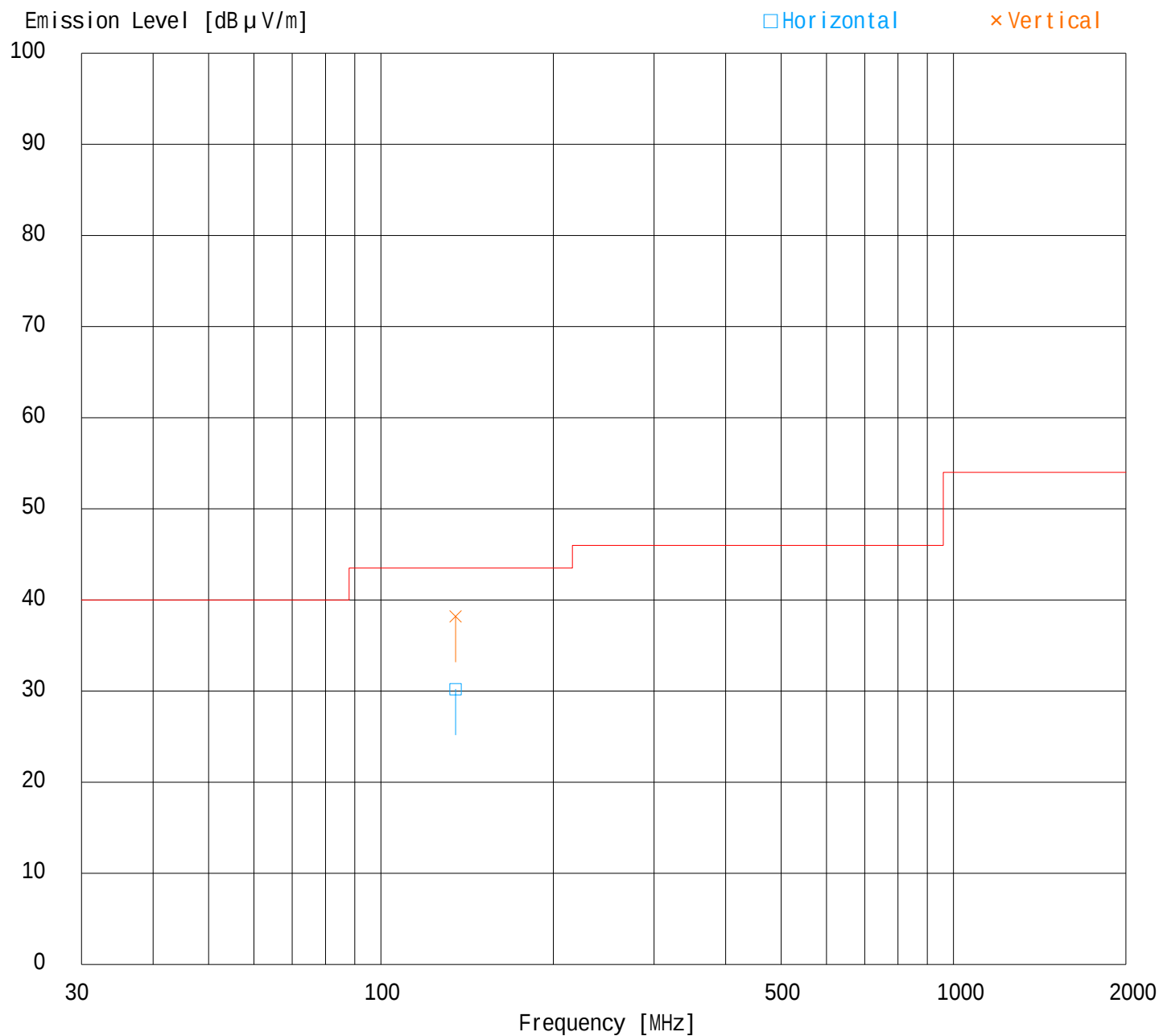
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : TV Reception+Rec(0dBmV)
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : TV Reception+Rec(25dBmV)
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.00	BB	37.5	45.1	14.5	29.8	2.6	5.9	30.7	38.3	43.5	12.8	5.2
2.	162.00	BB	29.4	33.6	16.1	29.8	2.9	5.9	24.5	28.7	43.5	19.0	14.8
3.	189.00	BB	33.1	38.4	16.9	29.9	3.2	5.9	29.2	34.5	43.5	14.3	9.0
4.	202.50	BB	36.1	32.8	17.0	29.9	3.3	5.9	32.4	29.1	43.5	11.1	14.4
5.	270.00	BB	33.6	33.3	18.1	29.9	4.0	6.0	31.8	31.5	46.0	14.2	14.5
6.	405.00	BB	35.1	39.7	16.5	30.0	5.1	6.0	32.7	37.3	46.0	13.3	8.7
7.	472.50	BB	33.9	32.5	17.1	30.1	5.6	6.0	32.5	31.1	46.0	13.5	14.9
8.	540.00	BB	30.1	34.0	18.2	30.1	6.1	6.0	30.3	34.2	46.0	15.7	11.8
9.	675.00	BB	33.0	36.5	20.6	29.9	6.9	6.0	36.6	40.1	46.0	9.4	5.9

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

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

DATA OF RADIATION TEST

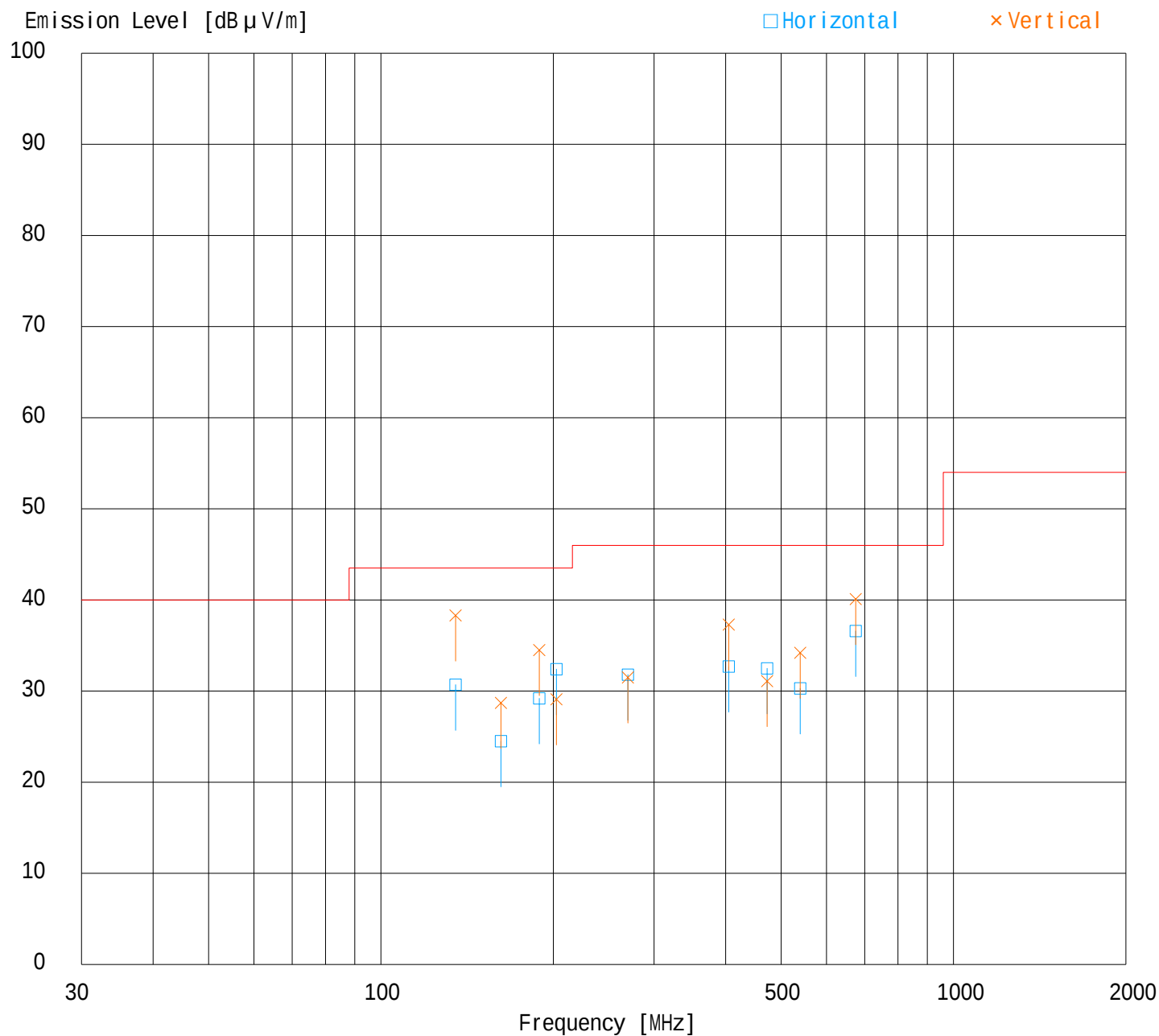
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No.: 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : TV Reception+Rec(25dBmV)
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : AV Input+Rec(1Vp-p)
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	675.00	BB	31.2	36.6	20.6	29.9	6.9	6.0	34.8	40.2	46.0	11.2	5.8

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

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

DATA OF RADIATION TEST

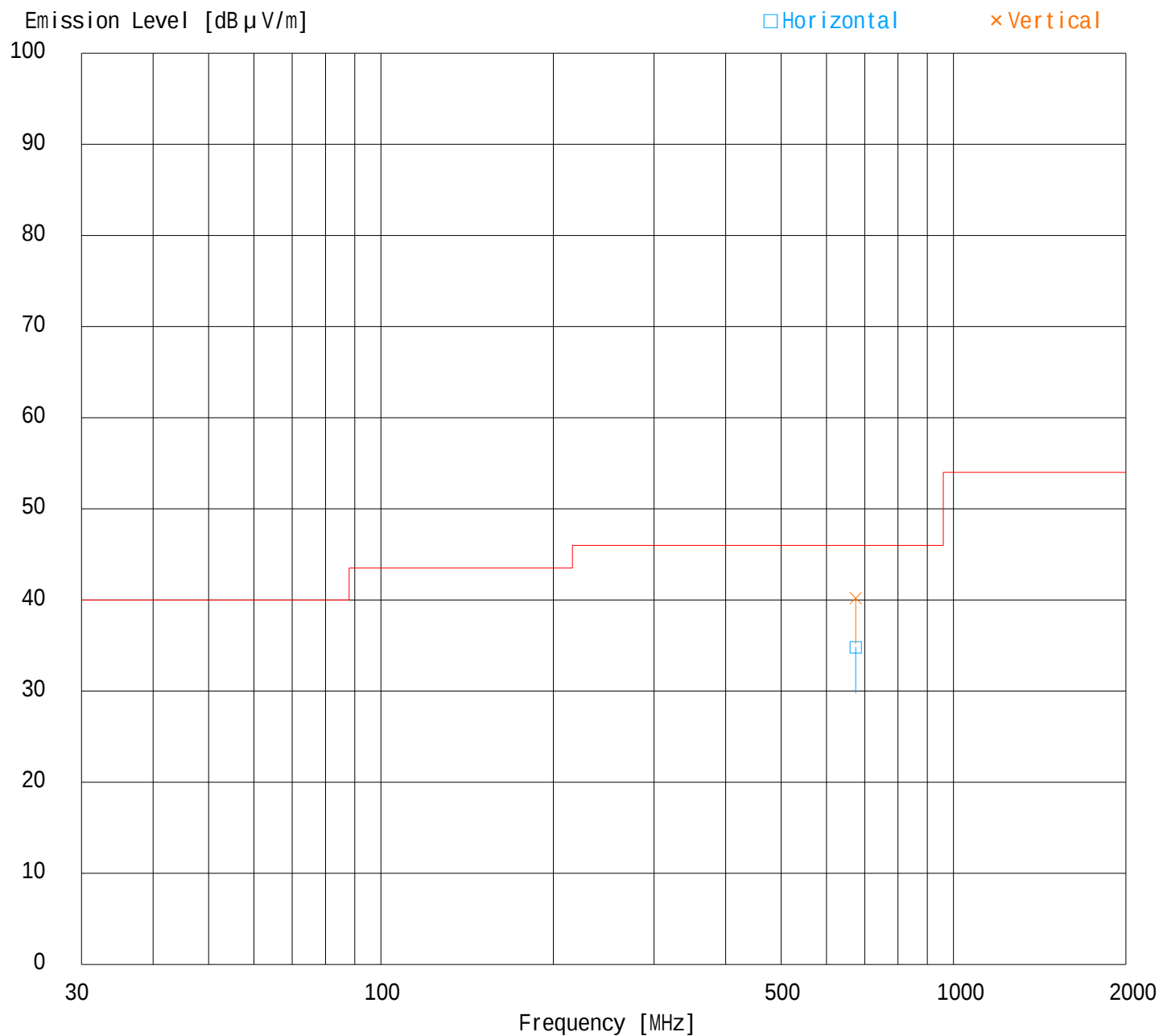
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : AV Input+Rec(1Vp-p)
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : AV Input+Rec(5Vp-p)
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.00	BB	38.9	44.8	14.5	29.8	2.6	5.9	32.1	38.0	43.5	11.4	5.5
2.	162.00	BB	30.1	32.0	16.1	29.8	2.9	5.9	25.2	27.1	43.5	18.3	16.4
3.	189.00	BB	34.5	38.4	16.9	29.9	3.2	5.9	30.6	34.5	43.5	12.9	9.0
4.	202.50	BB	36.2	37.3	17.0	29.9	3.3	5.9	32.5	33.6	43.5	11.0	9.9
5.	270.00	BB	33.9	35.5	18.1	29.9	4.0	6.0	32.1	33.7	46.0	13.9	12.3
6.	405.00	BB	34.2	39.0	16.5	30.0	5.1	6.0	31.8	36.6	46.0	14.2	9.4
7.	472.50	BB	34.2	33.7	17.1	30.1	5.6	6.0	32.8	32.3	46.0	13.2	13.7
8.	540.00	BB	30.0	33.3	18.2	30.1	6.1	6.0	30.2	33.5	46.0	15.8	12.5
9.	675.00	BB	31.7	37.0	20.6	29.9	6.9	6.0	35.3	40.6	46.0	10.7	5.4

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

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

DATA OF RADIATION TEST

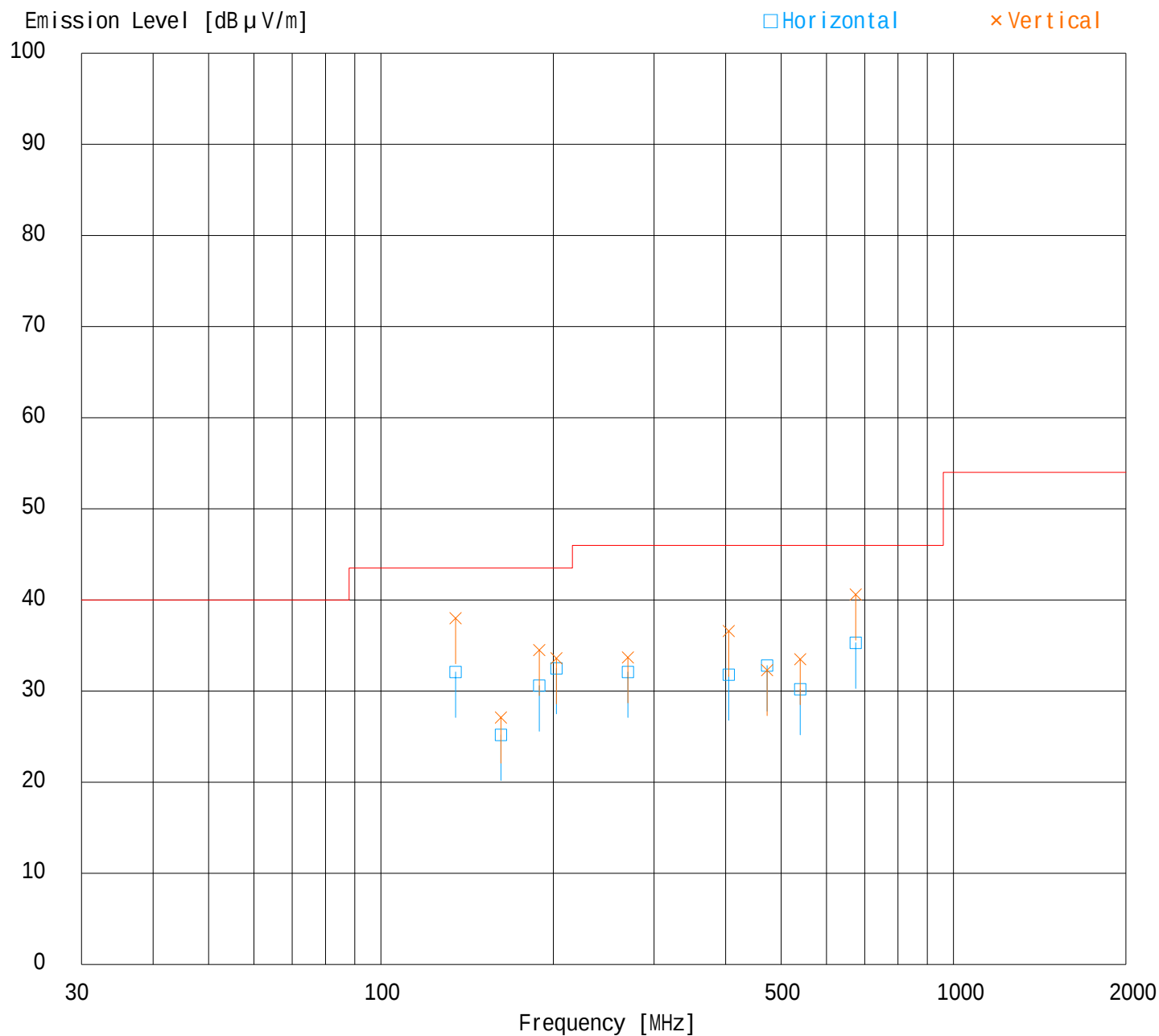
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : AV Input+Rec(5Vp-p)
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : VCR Playback
Remarks : -
Date : 9/30/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	57.28	BB	37.8	32.6	9.2	29.8	1.7	5.9	24.8	19.6	40.0	15.2	20.4
2.	135.00	BB	41.1	43.5	14.3	28.2	2.3	5.9	35.4	37.8	43.5	8.1	5.7
3.	162.00	BB	35.1	37.8	16.1	29.8	2.9	5.9	30.2	32.9	43.5	13.3	10.6
4.	202.50	BB	35.5	26.4	17.0	29.9	3.3	5.9	31.8	22.7	43.5	11.7	20.8
5.	270.00	BB	34.0	32.3	18.1	29.9	4.0	6.0	32.2	30.5	46.0	13.8	15.5
6.	405.01	BB	36.0	35.0	16.5	30.0	5.1	6.0	33.6	32.6	46.0	12.4	13.4
7.	472.50	BB	31.7	33.7	17.1	30.1	5.6	6.0	30.3	32.3	46.0	15.7	13.7
8.	540.00	BB	30.4	35.5	18.2	30.1	6.1	6.0	30.6	35.7	46.0	15.4	10.3
9.	675.00	BB	29.4	33.8	20.6	29.9	6.9	6.0	33.0	37.4	46.0	13.0	8.6

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

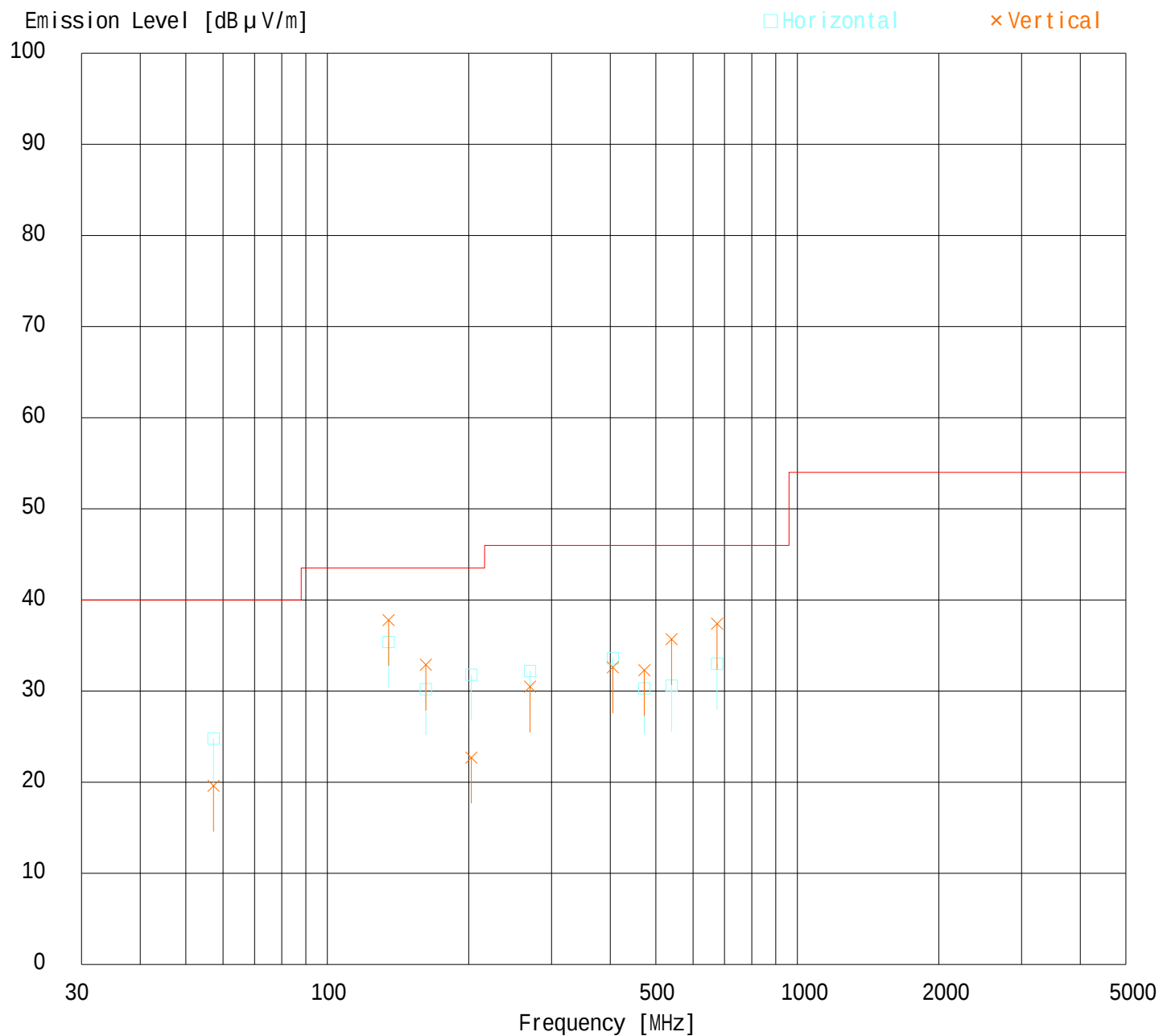
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : VCR Playback
Remarks : -
Date : 9/30/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : DVD Play
Remarks : -
Date : 9/30/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.01	BB	41.3	42.2	14.3	28.2	2.3	5.9	35.6	36.5	43.5	7.9	7.0
2.	168.77	BB	33.6	32.6	16.4	29.8	3.0	5.9	29.1	28.1	43.5	14.4	15.4
3.	270.03	BB	37.8	40.4	18.1	29.9	4.0	6.0	36.0	38.6	46.0	10.0	7.4
4.	405.03	BB	34.0	37.8	16.5	30.0	5.1	6.0	31.6	35.4	46.0	14.4	10.6
5.	472.50	BB	34.2	34.9	17.1	30.1	5.6	6.0	32.8	33.5	46.0	13.2	12.5
6.	675.01	BB	28.2	34.0	20.6	29.9	6.9	6.0	31.8	37.6	46.0	14.2	8.4

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

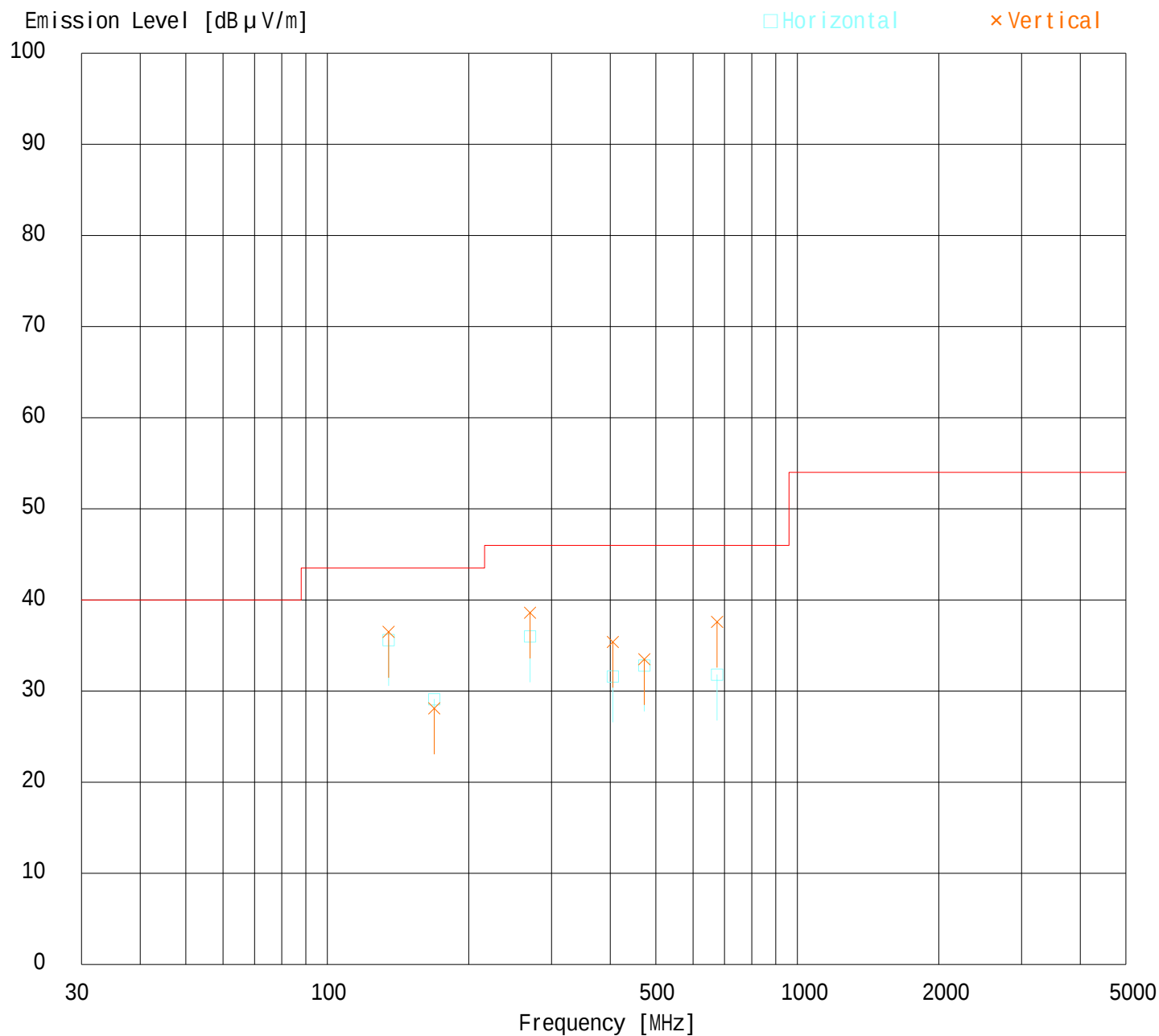
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : DVD Play
Remarks : -
Date : 9/30/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : DVD Play
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23 Engineer : Tsubasa Takayama
Humidity : 58 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1080.00	BB	48.6	50.4	25.3	35.3	2.0	0.0	40.6	42.4	74.0	33.4	31.6
2.	1366.70	BB	50.0	49.3	26.7	35.0	2.3	0.0	44.0	43.3	74.0	30.0	30.7
3.	1508.00	BB	47.0	45.0	27.5	34.8	2.4	0.0	42.1	40.1	74.0	31.9	33.9

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

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

DATA OF RADIATION TEST

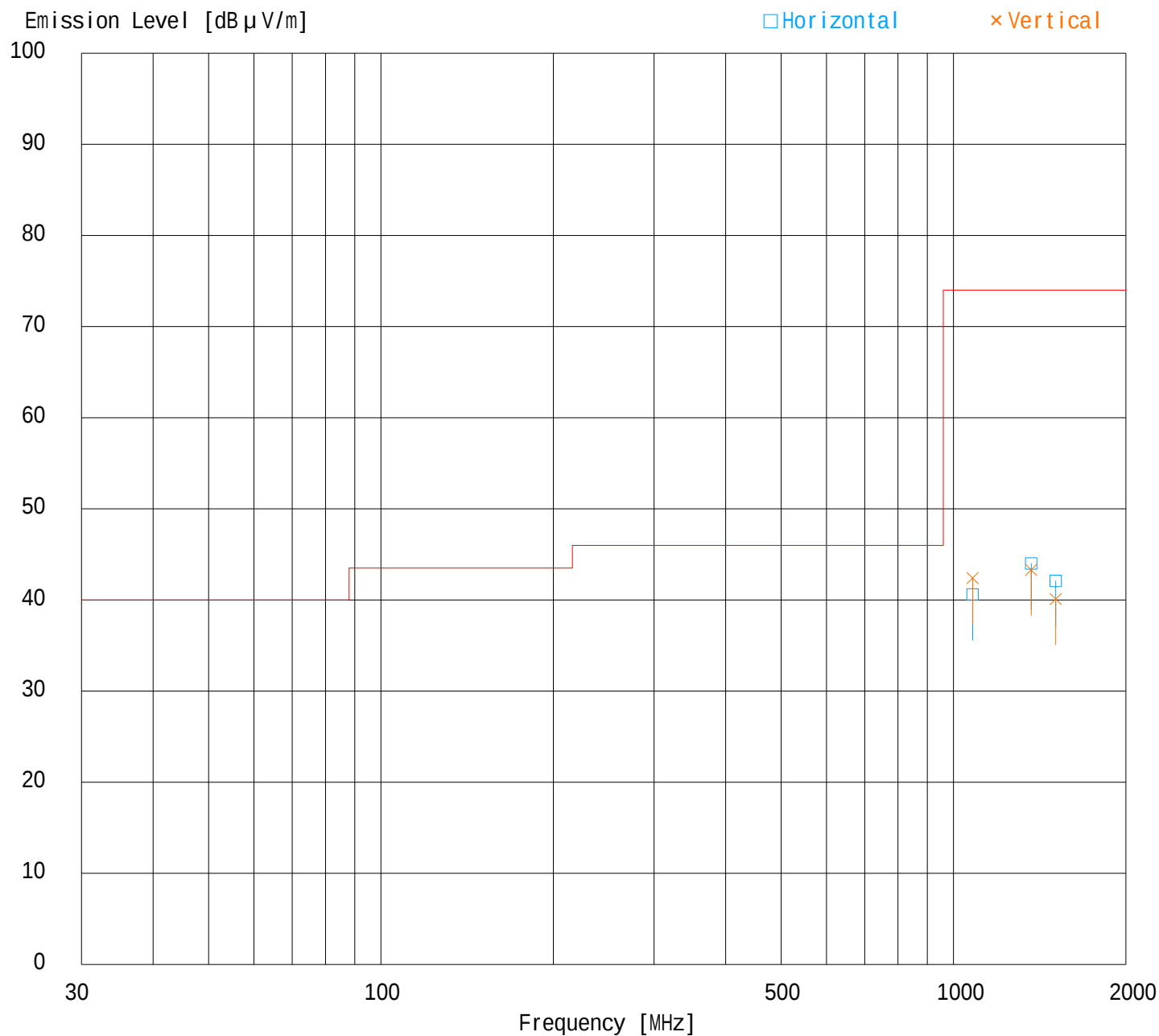
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : DVD Play
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : DVD Play
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23 Engineer : Tsubasa Takayama
Humidity : 58 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1080.00	BB	41.0	44.6	25.3	35.3	2.0	0.0	33.0	36.6	54.0	21.0	17.4
2.	1366.70	BB	41.6	39.0	26.7	35.0	2.3	0.0	35.6	33.0	54.0	18.4	21.0
3.	1508.00	BB	36.0	35.6	27.5	34.8	2.4	0.0	31.1	30.7	54.0	22.9	23.3

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

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

DATA OF RADIATION TEST

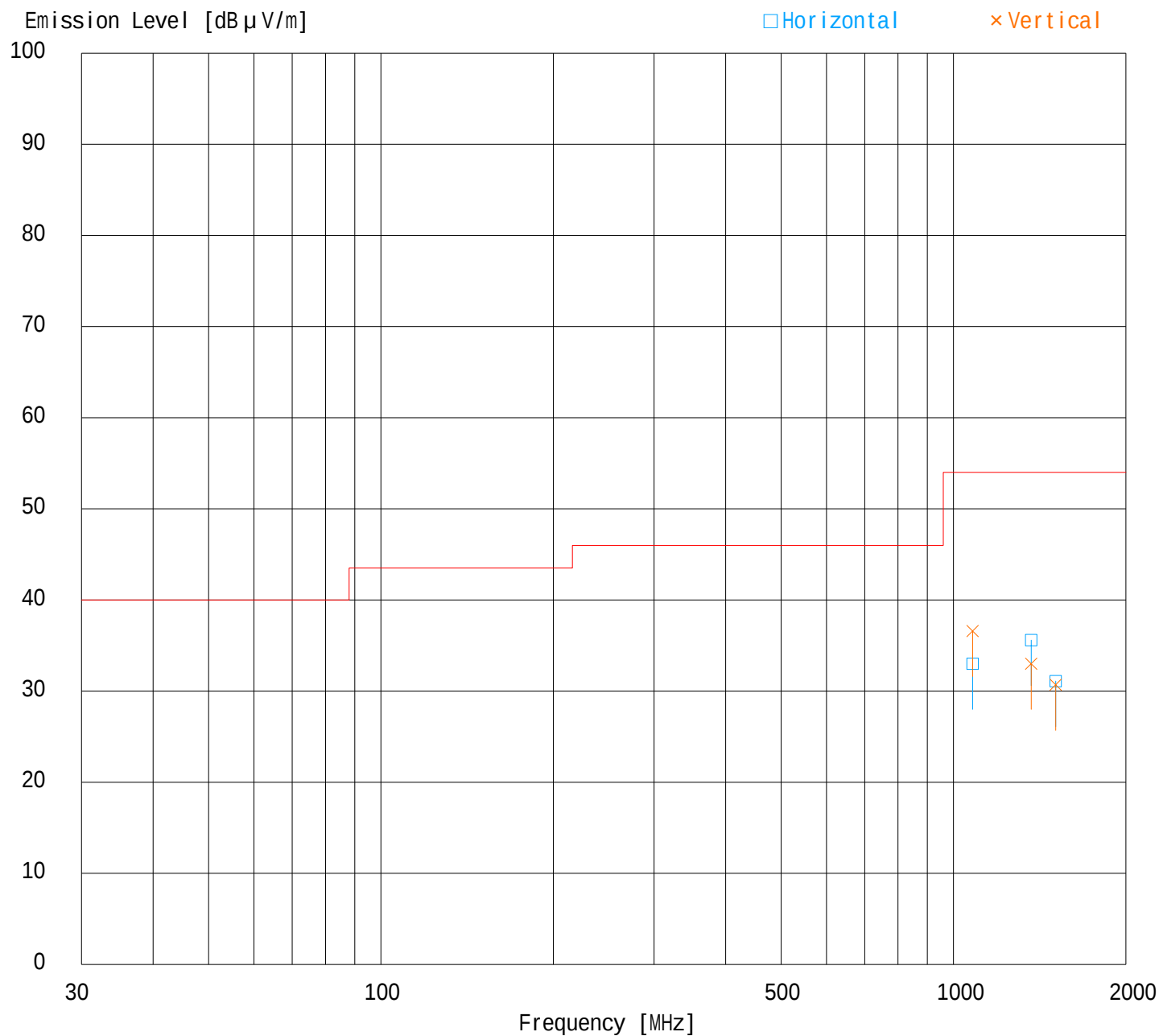
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25BE0271-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : DV-PT100-S
Serial No. : -
Power : AC120/60Hz
Mode : DVD Play
Remarks :
Date : 9/18/2004
Test Distance : 3 m
Temperature : 23
Humidity : 58 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF ANTENNA TERMINAL TEST

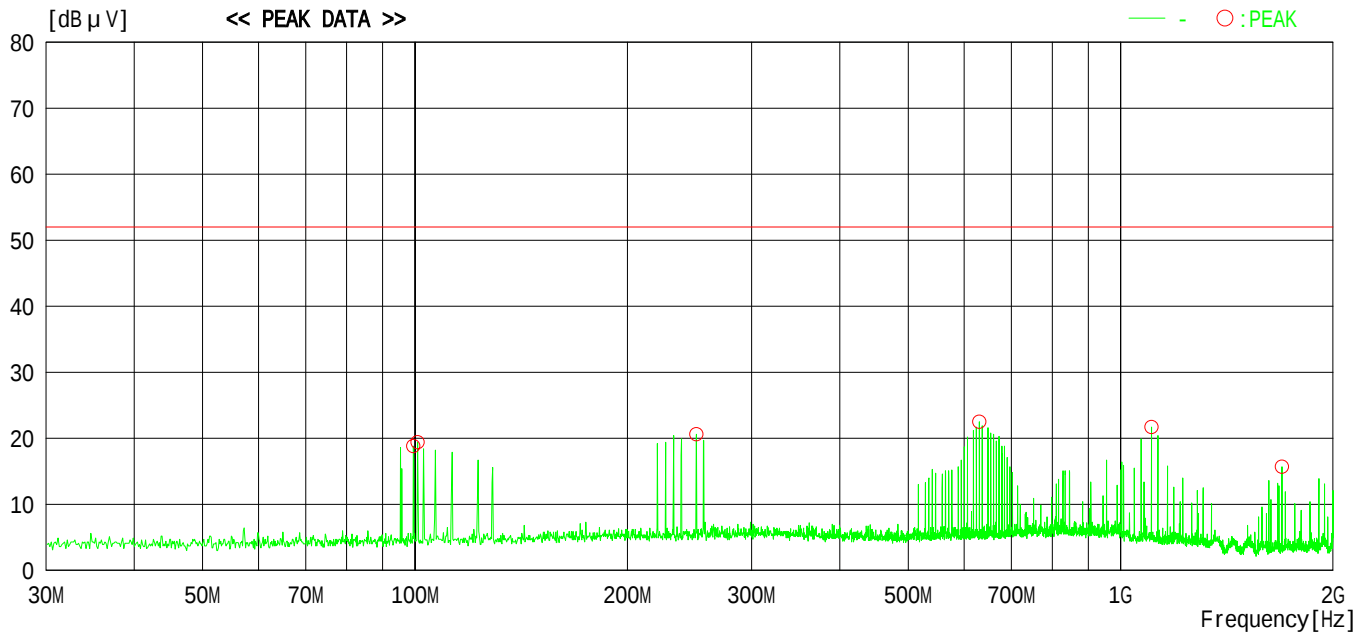
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
OPERATION MODE : TV Tuning mode

REPORT NO : 25BE0271-YW-1
DATE : September 21, 2004
REGULATION : FCC 15B
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 26 /68%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING Peak [dB μ V]	C.F [dB]	RESULT Peak [dB μ V]	LIMIT Peak [dB μ V]	MARGIN - [dB]	PHASE
1	99.45668	39.2	-20.4	18.8	52.0	33.2	-
2	100.85710	39.8	-20.4	19.4	52.0	32.6	-
3	250.57410	40.2	-19.6	20.6	52.0	31.4	-
4	630.56740	42.8	-20.3	22.5	52.0	29.5	-
5	1105.70900	50.8	-29.1	21.7	52.0	30.3	-
6	1692.84300	44.8	-29.1	15.7	52.0	36.3	-

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

DATA OF ANTENNA TERMINAL TEST

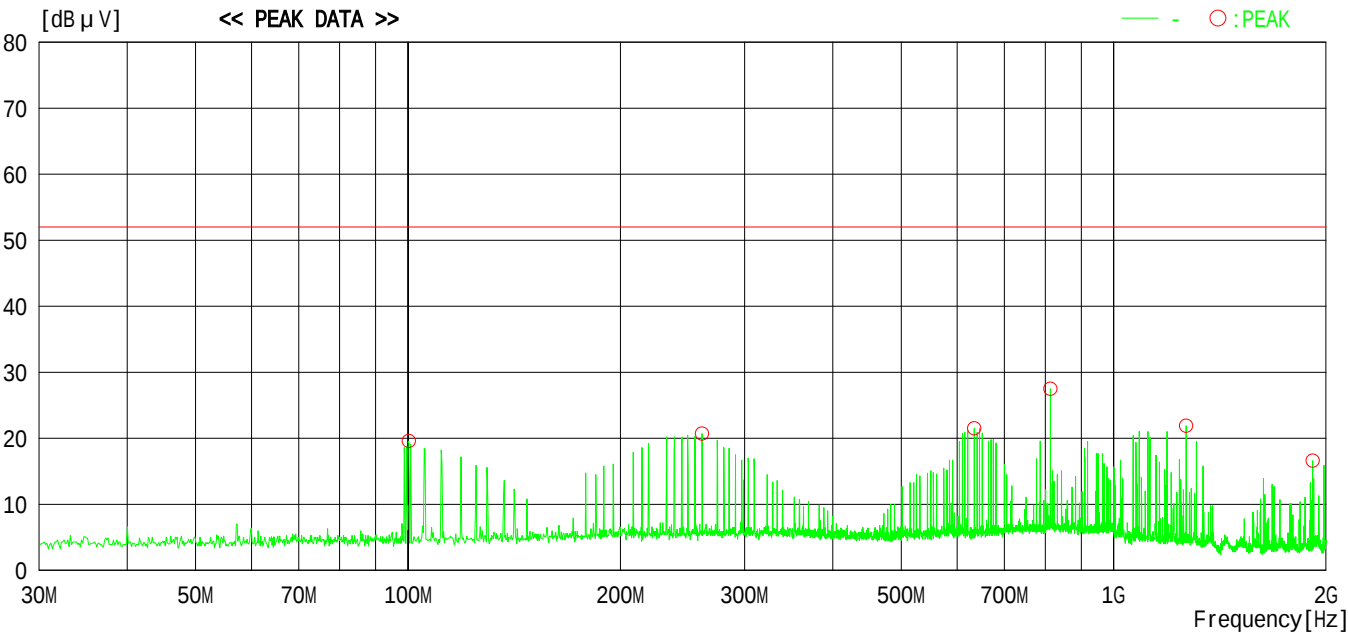
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
OPERATION MODE : CATV Tuning mode

REPORT NO : 25BE0271-YW-1
DATE : September 21, 2004
REGULATION : FCC 15B
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 26 /68%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING Peak [dB μ V]	C.F [dB]	RESULT Peak [dB μ V]	LIMIT Peak [dB μ V]	MARGIN - [dB]	PHASE
1	100.28570	40.0	-20.4	19.6	52.0	----	32.4
2	261.14550	40.2	-19.5	20.7	52.0	----	31.3
3	634.56730	41.8	-20.3	21.5	52.0	----	30.5
4	813.57600	47.2	-19.7	27.5	52.0	----	24.5
5	1267.12500	51.2	-29.3	21.9	52.0	----	30.1
6	1914.97000	45.5	-28.9	16.6	52.0	----	35.4

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

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electrc Co., Ltd.
Equipment : DVD/VCR
Model Number : DV-PT100-S
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 25BE0271-YW-1
Regulation : FCC15B SubpartB
Date : September 21, 2004
Temp / Humid : 23deg.C/46%
Engineer : Tsubasa Takayama

TV Reception(0dBmV)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	85.9	20.8	65.1	69.5	4.4
4	67.25	85.9	20.5	65.4	69.5	4.1
Audio Signal						
3	56.75	71.2	20.8	50.4	56.5	6.1
	65.75	69.9	20.5	49.4	56.5	7.1
4	62.75	70.6	20.5	50.1	56.5	6.4
	71.75	69.4	20.5	48.9	56.5	7.6

TV Reception(25dBmV)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	85.4	20.8	64.6	69.5	4.9
4	67.25	85.9	20.5	65.4	69.5	4.1
Audio Signal						
3	56.75	71.1	20.8	50.3	56.5	6.2
	65.75	70.0	20.5	49.5	56.5	7.0
4	62.75	70.6	20.5	50.1	56.5	6.4
	71.75	69.3	20.5	48.8	56.5	7.7

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electrc Co., Ltd.
Equipment : DVD/VCR
Model Number : DV-PT100-S
Power : 120V/60Hz
Description : AV Input
Remarks : -

Report Number : 25BE0271-YW-1
Regulation : FCC15B SubpartB
Date : September 21, 2004
Temp / Humid : 23deg.C/46%
Engineer : Tsubasa Takayama

AV Input1(1Vp-p)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	86.1	20.8	65.3	69.5	4.2
4	67.25	85.7	20.5	65.2	69.5	4.3
Audio Signal						
3	56.75	71.2	20.8	50.4	56.5	6.1
	65.75	70.3	20.5	49.8	56.5	6.7
4	62.75	70.6	20.5	50.1	56.5	6.4
	71.75	69.5	20.5	49.0	56.5	7.5

AV Input1(5Vp-p)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	86.5	20.8	65.7	69.5	3.8
4	67.25	85.8	20.5	65.3	69.5	4.2
Audio Signal						
3	56.75	70.1	20.8	49.3	56.5	7.2
	65.75	69.8	20.5	49.3	56.5	7.2
4	62.75	71.4	20.5	50.9	56.5	5.6
	71.75	70.3	20.5	49.8	56.5	6.7

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electrc Co., Ltd.
 Equipment : DVD/VCR
 Model Number : DV-PT100-S
 Power : 120V/60Hz
 Description : VCR Playback
 Remarks : -

Report Number : 25BE0271-YW-1
 Regulation : FCC15B SubpartB
 Date : September 21, 2004
 Temp / Humid : 23deg.C/46%
 Engineer : Tsubasa Takayama

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	86.1	20.8	65.3	69.5	4.2
4	67.25	85.6	20.5	65.1	69.5	4.4
Audio Signal						
3	56.75	71.2	20.8	50.4	56.5	6.1
	65.75	70.3	20.5	49.8	56.5	6.7
4	62.75	71.3	20.5	50.8	56.5	5.7
	71.75	69.6	20.5	49.1	56.5	7.4

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electrc Co., Ltd.
 Equipment : DVD/VCR
 Model Number : DV-PT100-S
 Power : 120V/60Hz
 Description : DVD Play
 Remarks : -

Report Number : 25BE0271-YW-1
 Regulation : FCC15B SubpartB
 Date : September 21, 2004
 Temp / Humid : 23deg.C/46%
 Engineer : Tsubasa Takayama

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	86.4	20.8	65.6	69.5	3.9
4	67.25	85.8	20.5	65.3	69.5	4.2
Audio Signal						
3	56.75	71.1	20.8	50.3	56.5	6.2
	65.75	69.8	20.5	49.3	56.5	7.2
4	62.75	70.8	20.5	50.3	56.5	6.2
	71.75	69.3	20.5	48.8	56.5	7.7

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	32.7200	34.4	----	-20.9	13.5	----	39.5	----	26.0	----	-
2	47.8000	34.7	----	-20.8	13.9	----	39.5	----	25.6	----	-
3	74.7200	33.1	----	-20.5	12.6	----	39.5	----	26.9	----	-
4	122.7000	34.5	----	-20.3	14.2	----	39.5	----	25.3	----	-
5	673.7600	34.2	----	-20.2	14.0	----	39.5	----	25.5	----	-
6	944.2000	34.1	----	-19.5	14.6	----	39.5	----	24.9	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.	REPORT NO : 25BE0271-YW-1
EQUIPMENT : DVD/VCR	DATE : September 22, 2004
MODEL : DV-PT100-S	REGULATION : FCC Part15 Subpart B
TEMP./HUMID. : 23 /43%	TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	32.7200	35.1	----	-20.9	14.2	----	39.5	----	25.3	----	-
2	47.8000	35.2	----	-20.8	14.4	----	39.5	----	25.1	----	-
3	74.7200	32.8	----	-20.5	12.3	----	39.5	----	27.2	----	-
4	122.7000	35.7	----	-20.3	15.4	----	39.5	----	24.1	----	-
5	673.7600	34.1	----	-20.2	13.9	----	39.5	----	25.6	----	-
6	944.2000	35.4	----	-19.5	15.9	----	39.5	----	23.6	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	32.7600	34.2	----	-20.9	13.3	----	39.5	----	26.2	----	-
2	47.6500	36.1	----	-20.8	15.3	----	39.5	----	24.2	----	-
3	74.6500	34.1	----	-20.5	13.6	----	39.5	----	25.9	----	-
4	122.7000	35.7	----	-20.3	15.4	----	39.5	----	24.1	----	-
5	674.7800	34.3	----	-20.2	14.1	----	39.5	----	25.4	----	-
6	755.8700	33.9	----	-19.9	14.0	----	39.5	----	25.5	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	32.7600	33.5	----	-20.9	12.6	----	39.5	----	26.9	----	-
2	47.6500	35.5	----	-20.8	14.7	----	39.5	----	24.8	----	-
3	74.6500	33.1	----	-20.5	12.6	----	39.5	----	26.9	----	-
4	122.7000	36.3	----	-20.3	16.0	----	39.5	----	23.5	----	-
5	674.7800	33.5	----	-20.2	13.3	----	39.5	----	26.2	----	-
6	755.8700	33.4	----	-19.9	13.5	----	39.5	----	26.0	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	32.7600	32.8	----	-20.9	11.9	----	39.5	----	27.6	----	-
2	47.7200	34.5	----	-20.8	13.7	----	39.5	----	25.8	----	-
3	74.6500	32.5	----	-20.5	12.0	----	39.5	----	27.5	----	-
4	122.5000	36.0	----	-20.3	15.7	----	39.5	----	23.8	----	-
5	611.4500	33.1	----	-20.3	12.8	----	39.5	----	26.7	----	-
6	734.7600	33.7	----	-20.0	13.7	----	39.5	----	25.8	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	54.0000	32.7	----	-20.8	11.9	----	39.5	----	27.6	----	-
2	47.7200	34.7	----	-20.8	13.9	----	39.5	----	25.6	----	-
3	74.6500	32.5	----	-20.5	12.0	----	39.5	----	27.5	----	-
4	122.5000	36.7	----	-20.3	16.4	----	39.5	----	23.1	----	-
5	611.4500	33.3	----	-20.3	13.0	----	39.5	----	26.5	----	-
6	809.3400	35.1	----	-19.7	15.4	----	39.5	----	24.1	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.	REPORT NO : 25BE0271-YW-1
EQUIPMENT : DVD/VCR	DATE : September 22, 2004
MODEL : DV-PT100-S	REGULATION : FCC Part15 Subpart B
TEMP./HUMID. : 23 /43%	TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	38.6300	34.7	----	-20.9	13.8	----	39.5	----	25.7	----	-
2	53.6600	34.5	----	-20.8	13.7	----	39.5	----	25.8	----	-
3	80.5500	31.1	----	-20.5	10.6	----	39.5	----	28.9	----	-
4	134.0000	36.0	----	-20.2	15.8	----	39.5	----	23.7	----	-
5	673.7600	35.5	----	-20.2	15.3	----	39.5	----	24.2	----	-
6	809.3400	34.6	----	-19.7	14.9	----	39.5	----	24.6	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.	REPORT NO : 25BE0271-YW-1
EQUIPMENT : DVD/VCR	DATE : September 22, 2004
MODEL : DV-PT100-S	REGULATION : FCC Part15 Subpart B
TEMP./HUMID. : 23 /43%	TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	38.6300	35.4	----	-20.9	14.5	----	39.5	----	25.0	----	-
2	53.6600	34.2	----	-20.8	13.4	----	39.5	----	26.1	----	-
3	80.5500	31.6	----	-20.5	11.1	----	39.5	----	28.4	----	-
4	134.0000	35.5	----	-20.2	15.3	----	39.5	----	24.2	----	-
5	673.7600	36.0	----	-20.2	15.8	----	39.5	----	23.7	----	-
6	809.3400	34.7	----	-19.7	15.0	----	39.5	----	24.5	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	38.6300	36.2	----	-20.9	15.3	----	39.5	----	24.2	----	-
2	53.6600	35.0	----	-20.8	14.2	----	39.5	----	25.3	----	-
3	80.5500	33.3	----	-20.5	12.8	----	39.5	----	26.7	----	-
4	134.0000	35.5	----	-20.2	15.3	----	39.5	----	24.2	----	-
5	673.7600	35.7	----	-20.2	15.5	----	39.5	----	24.0	----	-
6	809.3400	34.4	----	-19.7	14.7	----	39.5	----	24.8	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	38.6300	36.3	----	-20.9	15.4	----	39.5	----	24.1	----	-
2	53.6600	34.9	----	-20.8	14.1	----	39.5	----	25.4	----	-
3	80.5500	32.1	----	-20.5	11.6	----	39.5	----	27.9	----	-
4	134.0000	35.6	----	-20.2	15.4	----	39.5	----	24.1	----	-
5	673.7600	35.7	----	-20.2	15.5	----	39.5	----	24.0	----	-
6	809.3400	34.4	----	-19.7	14.7	----	39.5	----	24.8	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	38.6700	33.6	----	-20.9	12.7	----	39.5	----	26.8	----	-
2	53.6300	34.7	----	-20.8	13.9	----	39.5	----	25.6	----	-
3	80.5500	31.5	----	-20.5	11.0	----	39.5	----	28.5	----	-
4	134.0000	36.0	----	-20.2	15.8	----	39.5	----	23.7	----	-
5	671.4500	34.1	----	-20.2	13.9	----	39.5	----	25.6	----	-
6	944.7500	37.0	----	-19.5	17.5	----	39.5	----	22.0	----	-

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

DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	54.0000	34.5	----	-20.8	13.7	----	39.5	----	25.8	----	-
2	57.1200	34.4	----	-20.8	13.6	----	39.5	----	25.9	----	-
3	80.5500	31.9	----	-20.5	11.4	----	39.5	----	28.1	----	-
4	134.0000	35.6	----	-20.2	15.4	----	39.5	----	24.1	----	-
5	671.4500	33.7	----	-20.2	13.5	----	39.5	----	26.0	----	-
6	944.7500	37.0	----	-19.5	17.5	----	39.5	----	22.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	61.2500	23.2	----	-20.8	2.4	----	9.5	----	7.1	----	-
2	122.5000	24.1	----	-20.3	3.8	----	9.5	----	5.7	----	-
3	183.7500	23.3	----	-19.7	3.6	----	9.5	----	5.9	----	-
4	245.0000	22.3	----	-19.6	2.7	----	9.5	----	6.8	----	-
5	306.2500	22.1	----	-19.5	2.6	----	9.5	----	6.9	----	-
6	367.5000	22.1	----	-19.8	2.3	----	9.5	----	7.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	61.2500	23.3	----	-20.8	2.5	----	9.5	----	7.0	----	-
2	122.5000	24.1	----	-20.3	3.8	----	9.5	----	5.7	----	-
3	183.7500	23.2	----	-19.7	3.5	----	9.5	----	6.0	----	-
4	245.0000	22.3	----	-19.6	2.7	----	9.5	----	6.8	----	-
5	306.2500	22.2	----	-19.5	2.7	----	9.5	----	6.8	----	-
6	367.5000	22.1	----	-19.8	2.3	----	9.5	----	7.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Play : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	61.2500	23.4	----	-20.8	2.6	----	9.5	----	6.9	----	-
2	122.5000	24.5	----	-20.3	4.2	----	9.5	----	5.3	----	-
3	183.7500	23.3	----	-19.7	3.6	----	9.5	----	5.9	----	-
4	245.0000	22.1	----	-19.6	2.5	----	9.5	----	7.0	----	-
5	306.2500	22.1	----	-19.5	2.6	----	9.5	----	6.9	----	-
6	367.5000	22.2	----	-19.8	2.4	----	9.5	----	7.1	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	61.2500	23.5	----	-20.8	2.7	----	9.5	----	6.8	----	-
2	122.5000	24.0	----	-20.3	3.7	----	9.5	----	5.8	----	-
3	183.7500	23.0	----	-19.7	3.3	----	9.5	----	6.2	----	-
4	245.0000	22.5	----	-19.6	2.9	----	9.5	----	6.6	----	-
5	306.2500	22.2	----	-19.5	2.7	----	9.5	----	6.8	----	-
6	367.5000	22.3	----	-19.8	2.5	----	9.5	----	7.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	67.2500	23.3	----	-20.5	2.8	----	9.5	----	6.7	----	-
2	134.5000	24.5	----	-20.2	4.3	----	9.5	----	5.2	----	-
3	201.7500	22.3	----	-19.6	2.7	----	9.5	----	6.8	----	-
4	269.0000	22.2	----	-19.5	2.7	----	9.5	----	6.8	----	-
5	336.2500	22.2	----	-19.6	2.6	----	9.5	----	6.9	----	-
6	403.5000	22.1	----	-20.1	2.0	----	9.5	----	7.5	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	67.2500	23.4	----	-20.5	2.9	----	9.5	----	6.6	----	-
2	134.5000	24.4	----	-20.2	4.2	----	9.5	----	5.3	----	-
3	201.7500	22.1	----	-19.6	2.5	----	9.5	----	7.0	----	-
4	269.0000	22.2	----	-19.5	2.7	----	9.5	----	6.8	----	-
5	336.2500	22.5	----	-19.6	2.9	----	9.5	----	6.6	----	-
6	403.5000	22.6	----	-20.1	2.5	----	9.5	----	7.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	67.2500	23.1	----	-20.5	2.6	----	9.5	----	6.9	----	-
2	134.5000	23.9	----	-20.2	3.7	----	9.5	----	5.8	----	-
3	201.7500	23.0	----	-19.6	3.4	----	9.5	----	6.1	----	-
4	269.0000	22.2	----	-19.5	2.7	----	9.5	----	6.8	----	-
5	336.2500	22.1	----	-19.6	2.5	----	9.5	----	7.0	----	-
6	403.5000	22.1	----	-20.1	2.0	----	9.5	----	7.5	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-PT100-S
TEMP./HUMID. : 23 /43%

REPORT NO : 25BE0271-YW-1
DATE : September 22, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μ V]	- [dB μ V]		Peak [dB μ V]	- [dB μ V]	Peak [dB μ V]	- [dB μ V]	[dB]	[dB]	
1	67.2500	23.5	----	-20.5	3.0	----	9.5	----	6.5	----	-
2	134.5000	25.5	----	-20.2	5.3	----	9.5	----	4.2	----	-
3	201.7500	22.7	----	-19.6	3.1	----	9.5	----	6.4	----	-
4	269.0000	22.3	----	-19.5	2.8	----	9.5	----	6.7	----	-
5	336.2500	22.1	----	-19.6	2.5	----	9.5	----	7.0	----	-
6	403.5000	22.2	----	-20.1	2.1	----	9.5	----	7.4	----	-

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

Picture Sensitivity Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company	: Orion Electric Co., Ltd.	Report Number	: 25BE0271-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15 SubpartB
Model Number	: DV-PT100-S	Date	: September 24, 2004
Power	: 120V/60Hz	Temp / Humid	: 23deg.C / 45%
Description	: TV Reception	Engineer	: Tsubasa Takayama
Remarks	: -		

Ch [VHF]	Frequency [MHz]	Sensitivity		Ch [UHF]	Frequency [MHz]	Sensitivity	
		[dBμV]	[μV]			[dB μ V]	[μ V]
2	55.25	20.0	10.0	14	471.25	20.0	10.0
3	61.25	17.2	7.2	20	507.25	20.1	10.1
4	67.25	17.2	7.2	26	543.25	20.0	10.0
5	77.25	17.2	7.2	32	579.25	20.8	11.0
6	83.25	16.8	6.9	38	615.25	21.3	11.6
7	175.25	18.7	8.6	44	651.25	21.0	11.2
8	181.25	19.8	9.8	50	687.25	20.0	10.0
9	187.25	18.9	8.8	56	723.25	20.5	10.6
10	193.25	18.6	8.5	62	759.25	20.3	10.4
11	199.25	18.4	8.3	69	801.25	20.0	10.0
12	205.25	18.1	8.0	-	-	-	-
13	211.25	18.3	8.2	-	-	-	-
Average VHF			8.2	Average UHF			10.5
Average UHF/VHF : $20 \log \text{UHF}[\mu\text{V}] / \text{VHF}[\mu\text{V}]$				2.1 [Limit : 8.0dB]			

Noise Figure Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : DV-PT100-S
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 25BE0271-YW-1
Regulation : FCC Part 15 Subpart B
Date : September 24, 2004
Temp / Humid : 23deg.C / 45%
Engineer : Tsubasa Takayama

Ch	Frequency [MHz]	Meter Reading [dB]	Correction Factor [dB]	Noise Figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	6.5	0.2	6.3	14.0	7.7
3	61.25	3.4	0.2	3.2	14.0	10.8
4	67.25	3.2	0.2	3.0	14.0	11.0
5	77.25	3.4	0.2	3.2	14.0	10.8
6	83.25	3.2	0.2	3.0	14.0	11.0
7	175.25	3.6	0.2	3.4	14.0	10.6
8	181.25	3.6	0.2	3.4	14.0	10.6
9	187.25	3.7	0.2	3.5	14.0	10.5
10	193.25	3.8	0.2	3.6	14.0	10.4
11	199.25	3.5	0.2	3.3	14.0	10.7
12	205.25	3.3	0.2	3.1	14.0	10.9
13	211.25	3.6	0.2	3.4	14.0	10.6
TV UHF Fundamental						
14	471.25	6.2	0.3	5.9	14.0	8.1
20	507.25	6.1	0.3	5.8	14.0	8.2
26	543.25	6.5	0.3	6.2	14.0	7.8
32	579.25	7.2	0.3	6.9	14.0	7.1
38	615.25	7.5	0.3	7.2	14.0	6.8
44	651.25	7.7	0.3	7.4	14.0	6.6
50	687.25	8.2	0.3	7.9	14.0	6.1
56	723.25	7.9	0.4	7.5	14.0	6.5
62	759.25	7.3	0.4	6.9	14.0	7.1
69	801.25	7.0	0.4	6.6	14.0	7.4
Mid band						
14	121.25	3.1	0.2	2.9	14.0	11.1
16	133.25	7.4	0.2	7.2	14.0	6.8
18	145.25	5.6	0.2	5.4	14.0	8.6
20	157.25	5.0	0.2	4.8	14.0	9.2
22	169.25	4.7	0.2	4.5	14.0	9.5
Super band						
23	217.25	3.4	0.2	3.2	14.0	10.8
26	235.25	3.2	0.2	3.0	14.0	11.0
29	253.25	3.5	0.2	3.3	14.0	10.7
32	271.25	3.6	0.2	3.4	14.0	10.6
36	295.25	4.0	0.2	3.8	14.0	10.2

Test Report No : 25BE0271-YW-1

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
IP-06	Matching Pad	TME	ZT-301	PS, NF	2004/05/06 * 12
APMAT05	Matching Pad	TME	ZT-130	AT, RF, ATS	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
AF-05	Pre Amplifier	Hewlett Packard	8447D	AT, RF, ATS	2004/01/15 * 12
AF-06	Pre Amplifier	Agilent	HP8449B	AT	2003/12/17 * 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, AT, RF, ATS, PS, NF	2004/05/06 * 12
AF-03	Pre Amplifier	Anritsu	MH648A	RE	2004/03/28 * 12
AT-04	Attenuator	Anritsu	MP721B	RE	2004/03/26 * 12
BA-04	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/04/10 * 12
LA-05	Logperiodic Antenna	Schwarzbeck	UHALP9108-A	RE	2003/10/19 * 12
LS-03	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2003/10/31 * 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
TR-04	Test Receiver	Rohde & Schwarz	ESVS10	RE	2004/05/21 * 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
CC-C6	Microwave Cable	Suhner	SUCOFLEX	RE	2004/01/07 * 12
CC-C11	Microwave Cable	Storm	421-014(4mx2)	RE	2003/12/18 * 12
YOATS-02	Open Test Site	JSE	3m, 10m	RE	2004/08/15 * 12
OS-10	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/05/06 * 12
AF-04	Pre Amplifier	Hewlett Packard	8449B	RE	2003/11/04 * 12
HA-02	Horn Antenna	A.H.Systems	SAS-200/571	RE	2004/04/10 * 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