

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : TV RECEPTION + REC
Remarks : 0dBmV
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 50 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS		ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV		[dB]	[dB]		QP	AV	QP	AV	QP	AV
1.	0.4507	30.3	-	30.0	-	0.2	0.3	0.0	30.8	-	-	48.0	0.0	17.2	-
2.	0.5205	28.9	-	29.1	-	0.2	0.3	0.0	29.6	-	-	48.0	0.0	18.4	-
3.	0.7297	28.6	-	28.5	-	0.2	0.3	0.0	29.1	-	-	48.0	0.0	18.9	-
4.	1.0331	29.1	-	27.4	-	0.2	0.4	0.0	29.7	-	-	48.0	0.0	18.3	-
5.	14.3162	25.1	-	22.6	-	0.7	0.7	0.0	26.6	-	-	48.0	0.0	21.5	-
6.	16.7430	27.2	-	28.8	-	0.9	0.8	0.0	30.5	-	-	48.0	0.0	17.5	-

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

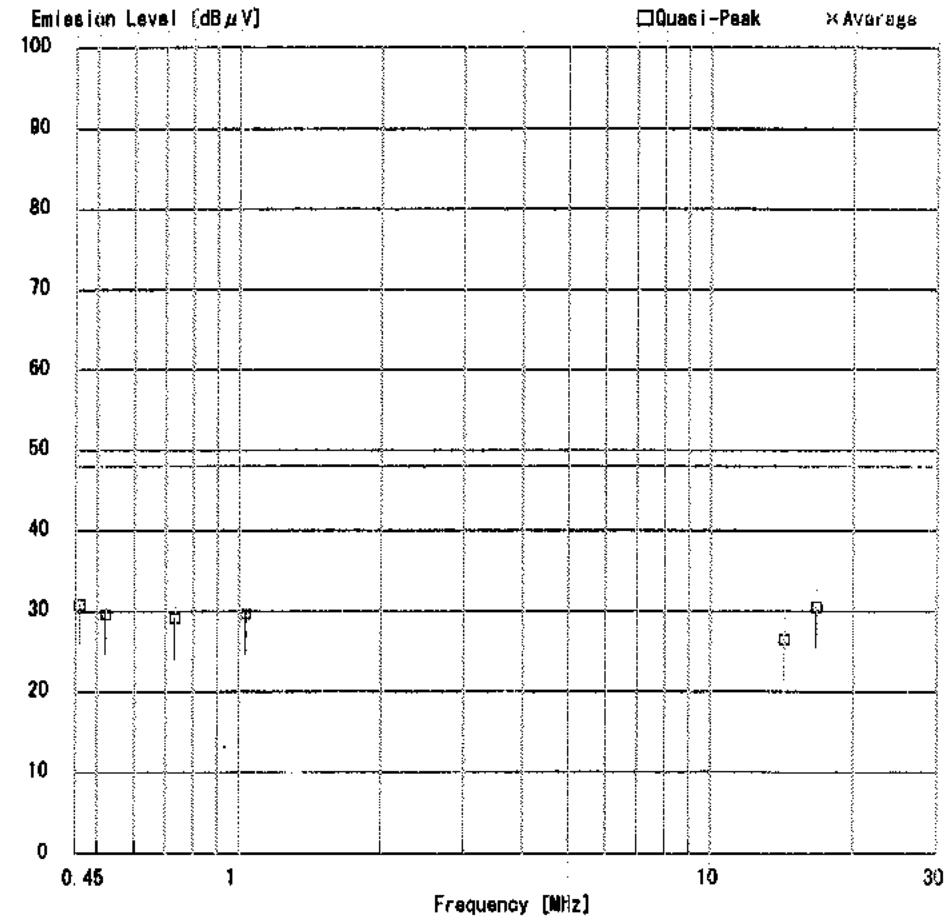
Except for the above table : adequate margin data below the limits.

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Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : TV RECEPTION + REC
Remarks : 0dBmV
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 50 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

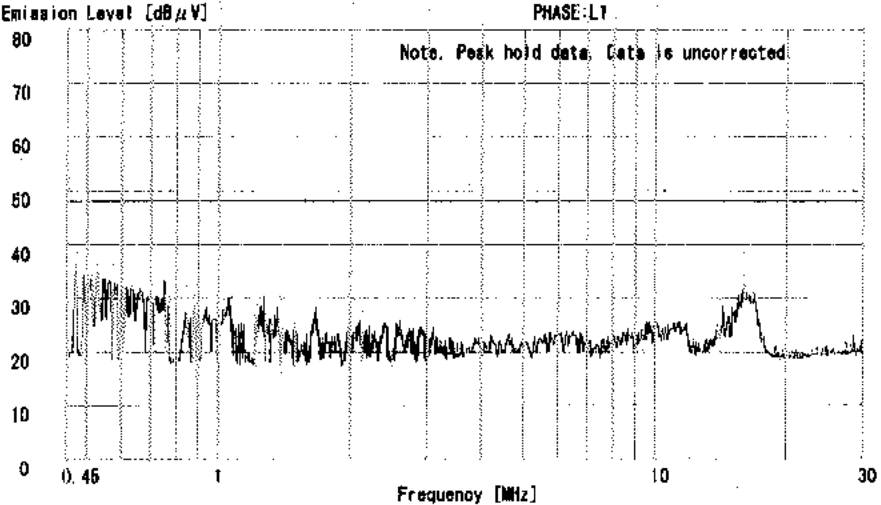
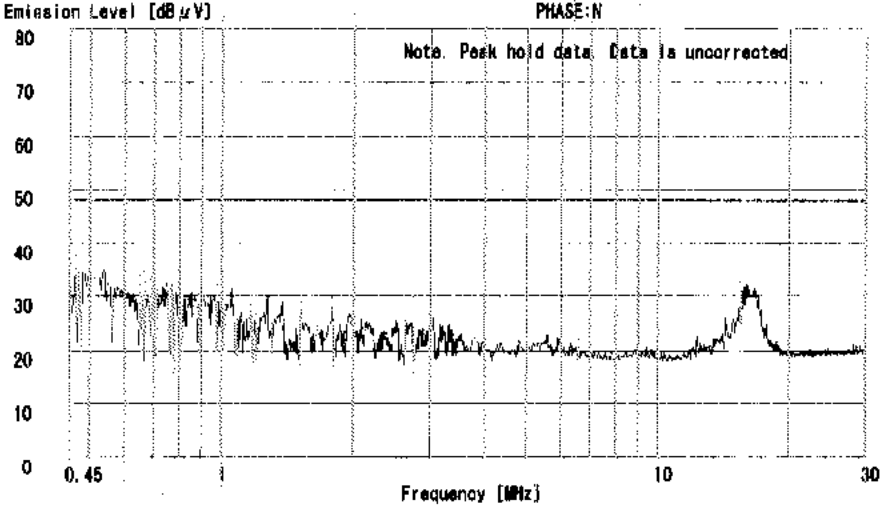


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : TV RECEPTION + REC
Remarks : 0dBmV
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

Engineer : Tsubasa Takayama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : TV RECEPTION + REC
Remarks : 25dBmV
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]				QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]
1.	0.4684	29.6	-	29.4	-	0.2	0.3	0.0	30.1	-	48.0	0.0	17.9	-
2.	0.6210	28.8	-	28.8	-	0.2	0.3	0.0	29.3	-	48.0	0.0	18.7	-
3.	0.8390	26.7	-	24.4	-	0.2	0.3	0.0	27.2	-	48.0	0.0	20.8	-
4.	1.0391	28.1	-	27.1	-	0.2	0.4	0.0	28.7	-	48.0	0.0	19.3	-
5.	2.0190	13.4	-	17.3	-	0.2	0.4	0.0	17.9	-	48.0	0.0	30.1	-
6.	10.4088	27.0	-	28.3	-	0.8	0.8	0.0	29.9	-	48.0	0.0	18.1	-

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

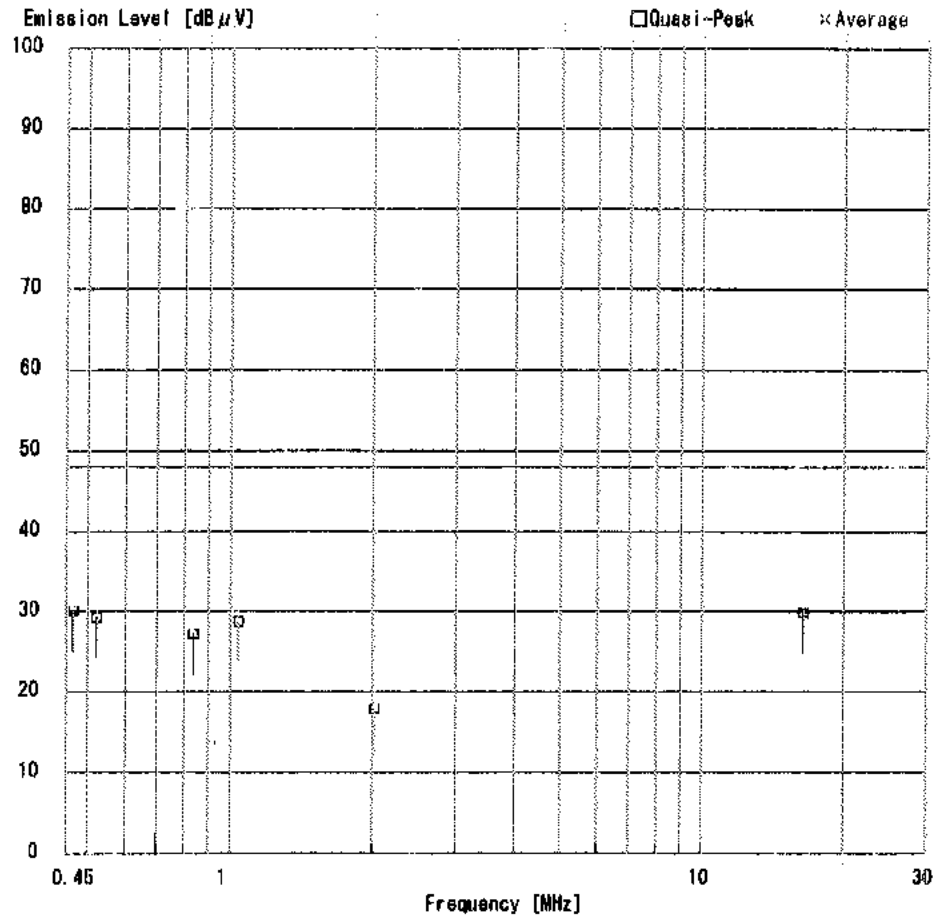
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Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : TV RECEPTION + REC
Remarks : 25dBmV
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

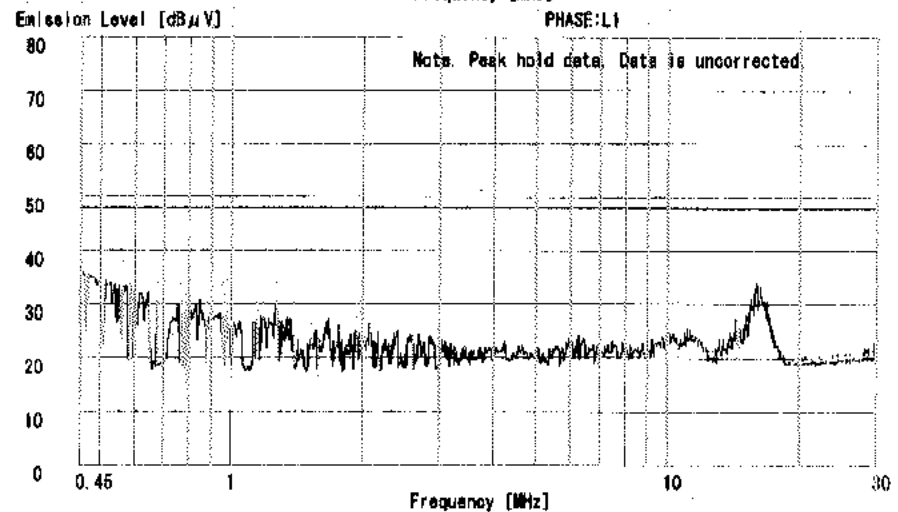
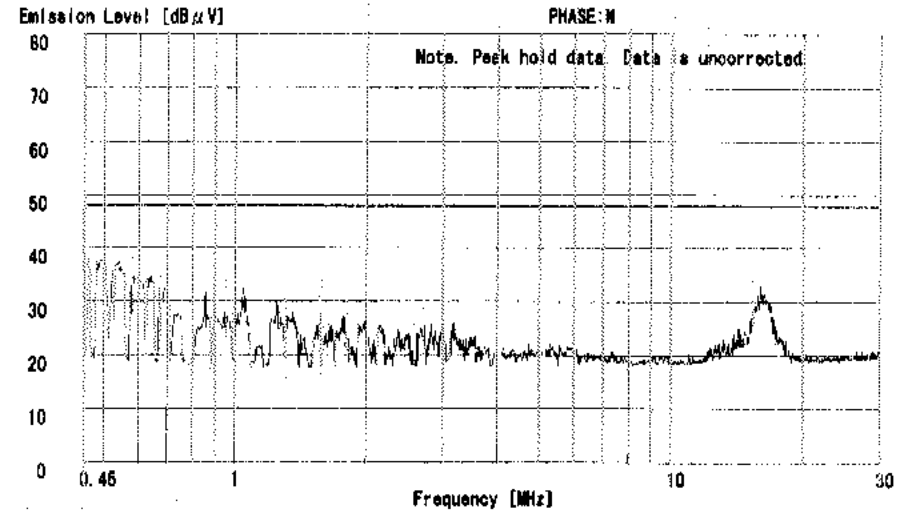


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Mode : TV RECEPTION + REC
Remarks : 25dBmV
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Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

Engineer : Tsubasa Takayama



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Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV INPUT 1 + REC
Remarks : 1V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
		[dBuV]		[dBuV]					[dBuV]		[dBuV]		[dB]	
1.	0.4600	31.2	-	30.6	-	0.2	0.3	0.0	31.7	-	48.0	0.0	16.3	-
2.	0.6143	29.3	-	29.3	-	0.2	0.3	0.0	29.3	-	48.0	0.0	18.7	-
3.	0.7338	29.2	-	28.7	-	0.2	0.3	0.0	29.7	-	48.0	0.0	18.3	-
4.	0.8273	26.5	-	24.9	-	0.2	0.3	0.0	27.0	-	48.0	0.0	21.0	-
5.	1.0374	28.0	-	28.0	-	0.2	0.4	0.0	29.2	-	48.0	0.0	18.8	-
6.	10.9392	23.3	-	24.3	-	0.9	0.8	0.0	26.0	-	48.0	0.0	22.0	-

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

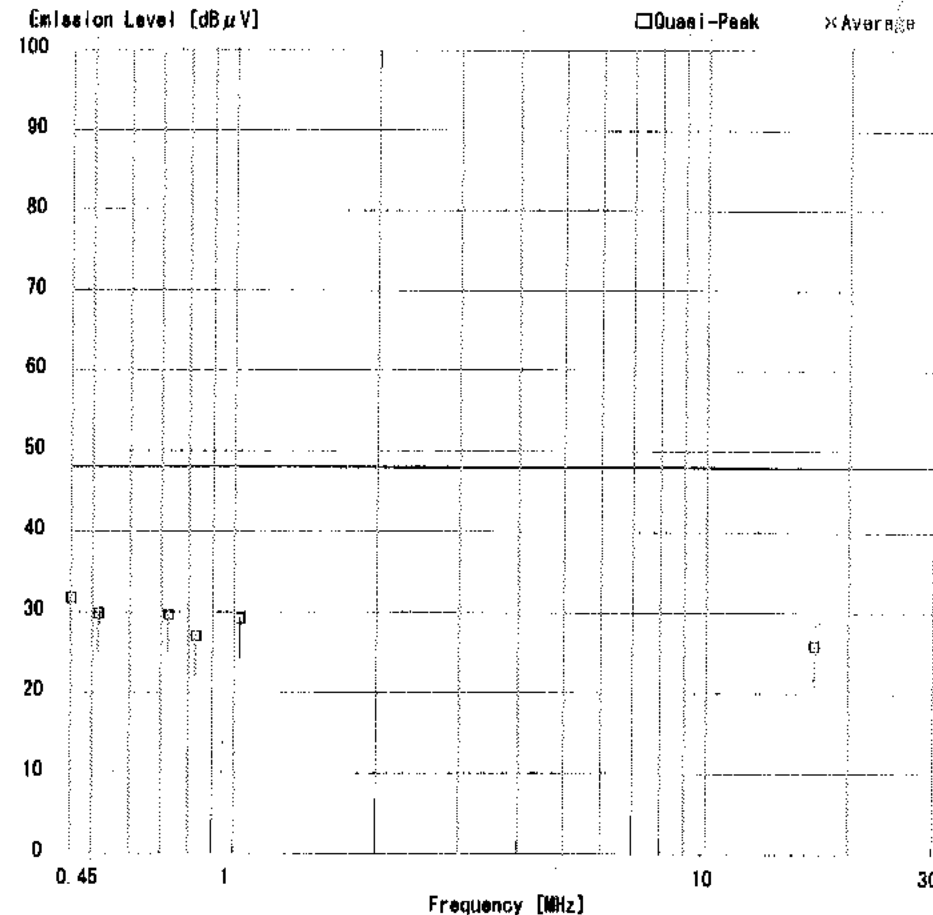
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Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

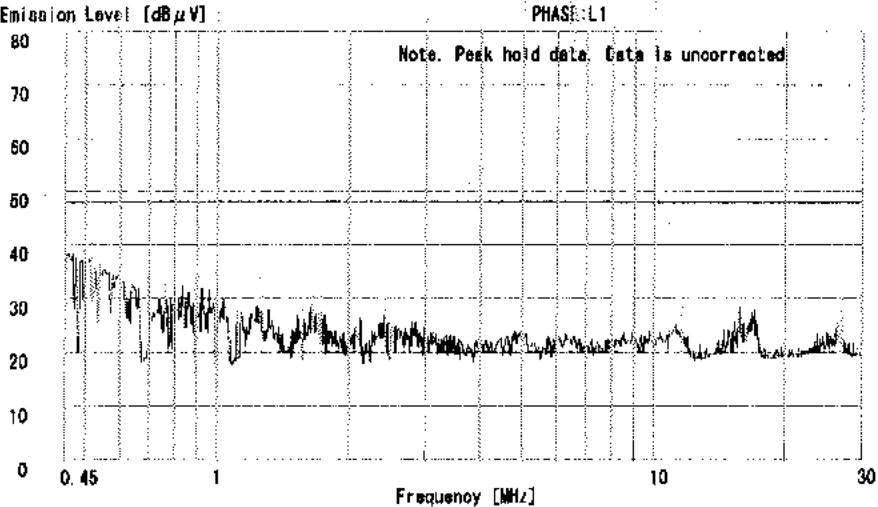
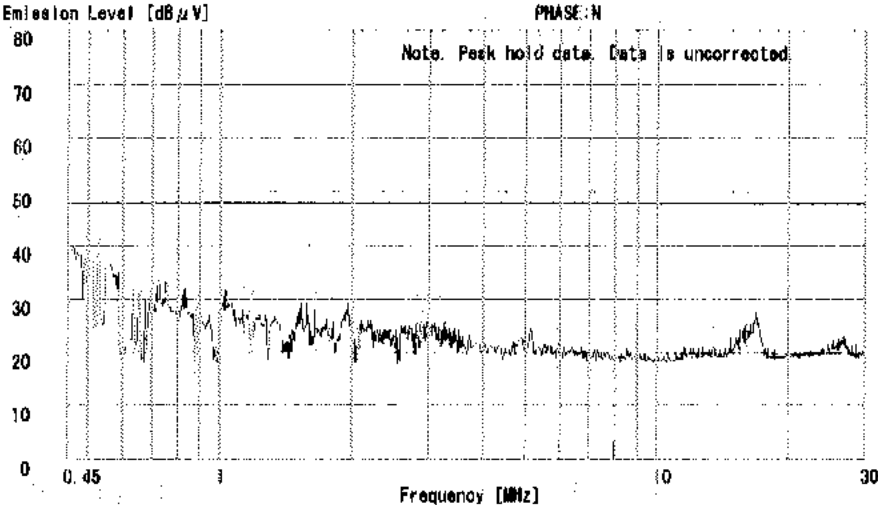


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Serial No. :
Power : AC120V/60Hz
Mode : AV INPUT 1 + REC
Remarks : 5V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
1.	0.4800	31.1	-	30.9	-	0.2	0.3	0.0	31.6	-	48.0	0.0	16.4	-
2.	0.6248	28.9	-	28.6	-	0.2	0.3	0.0	29.4	-	48.0	0.0	18.6	-
3.	0.7166	29.6	-	28.6	-	0.2	0.4	0.0	30.1	-	48.0	0.0	17.9	-
4.	0.8183	26.0	-	23.9	-	0.2	0.3	0.0	27.1	-	48.0	0.0	20.9	-
5.	1.0272	29.0	-	29.0	-	0.2	0.4	0.0	29.6	-	48.0	0.0	18.4	-
6.	16.6761	26.3	-	26.9	-	0.9	0.8	0.0	28.0	-	48.0	0.0	20.0	-

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

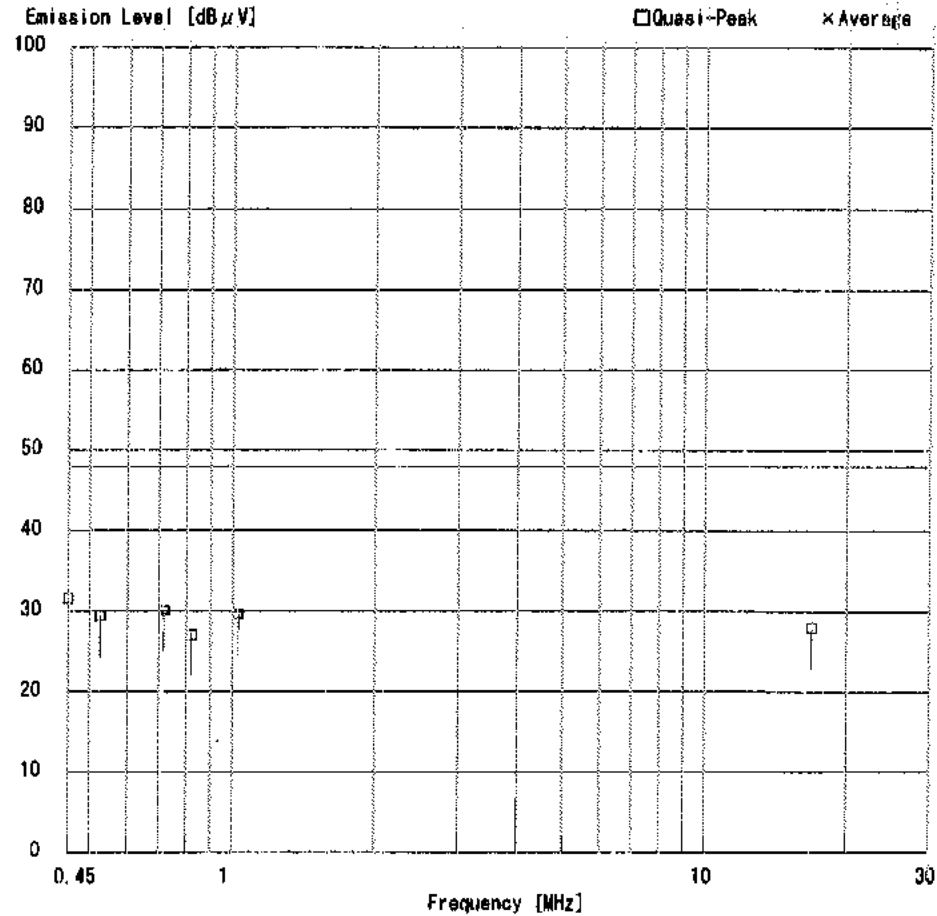
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Engineer : Tsubasa Takayama

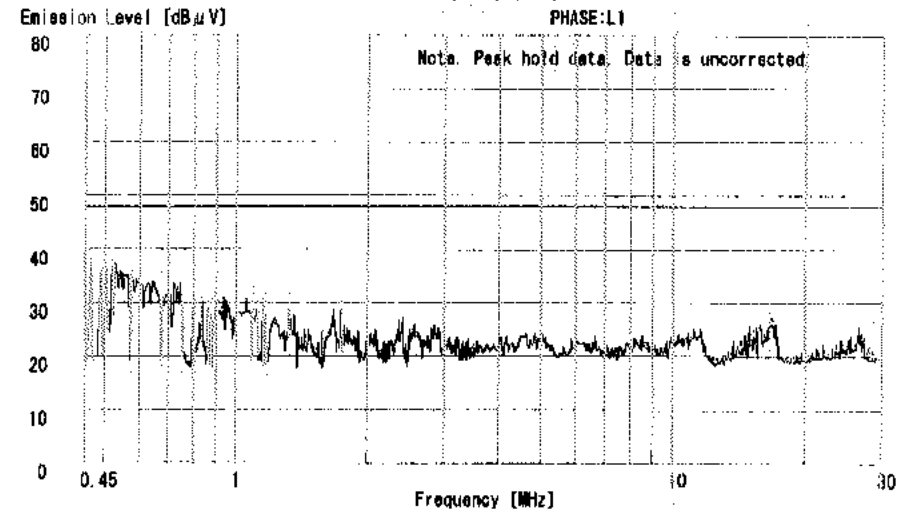
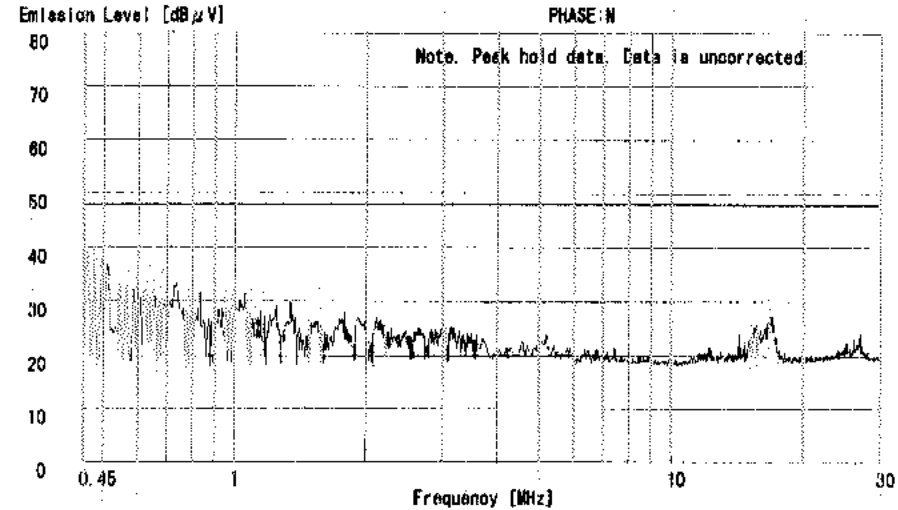


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Remarks : 5V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

Engineer : Tsubasa Takayama



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Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV INPUT 2 + REC
Remarks : 1V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Teubasa Takayama

No.	FREQ. [MHz]	READING (H)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBuV]	AV	QP [dBuV]	AV				QP [dBuV]	AV	QP [dBuV]	AV	QP [dB]	AV
1.	0.450	31.0	-	30.8	-	0.2	0.3	0.0	31.5	-	48.0	0.0	16.5	-
2.	0.510	29.3	-	28.9	-	0.2	0.3	0.0	29.8	-	48.0	0.0	18.2	-
3.	0.720	28.3	-	27.9	-	0.2	0.3	0.0	28.8	-	48.0	0.0	19.2	-
4.	0.805	25.4	-	23.7	-	0.2	0.3	0.0	25.9	-	48.0	0.0	22.1	-
5.	1.000	28.2	-	26.7	-	0.2	0.4	0.0	28.8	-	48.0	0.0	19.2	-
6.	16.210	20.4	-	22.3	-	0.8	0.8	0.0	23.9	-	48.0	0.0	24.1	-

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

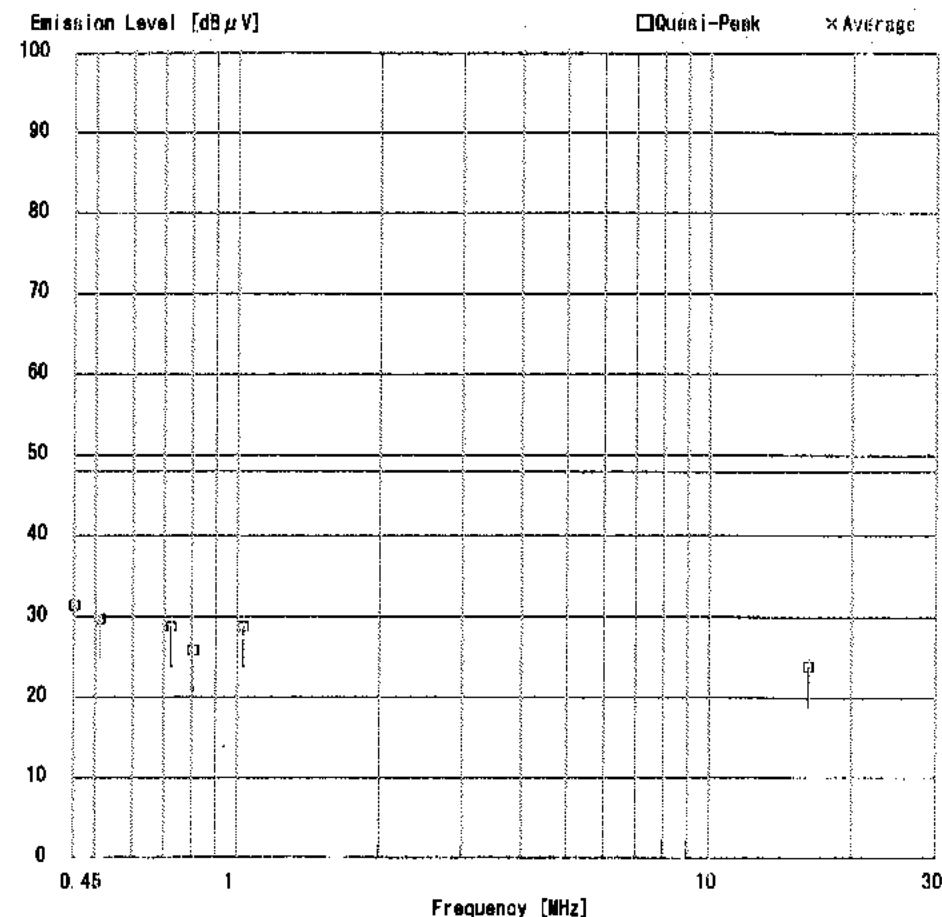
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Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV INPUT 2 + REC
Remarks : 1V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Teubasa Takayama

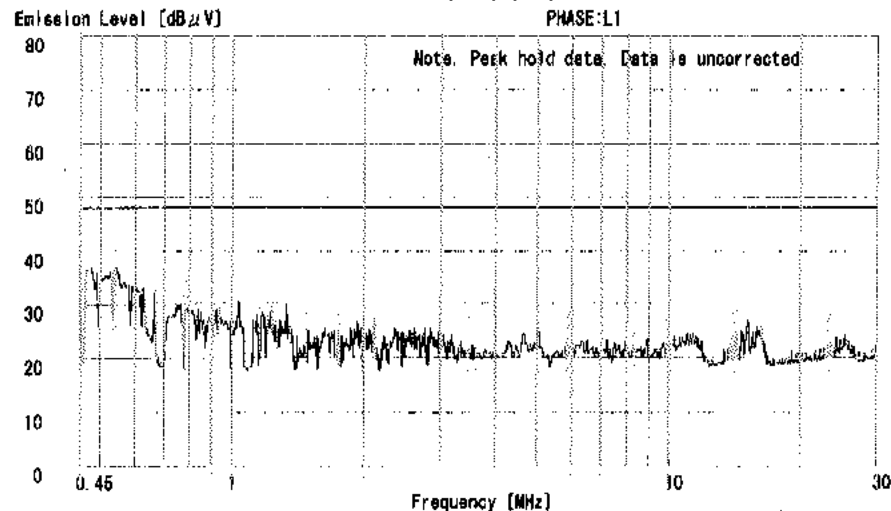
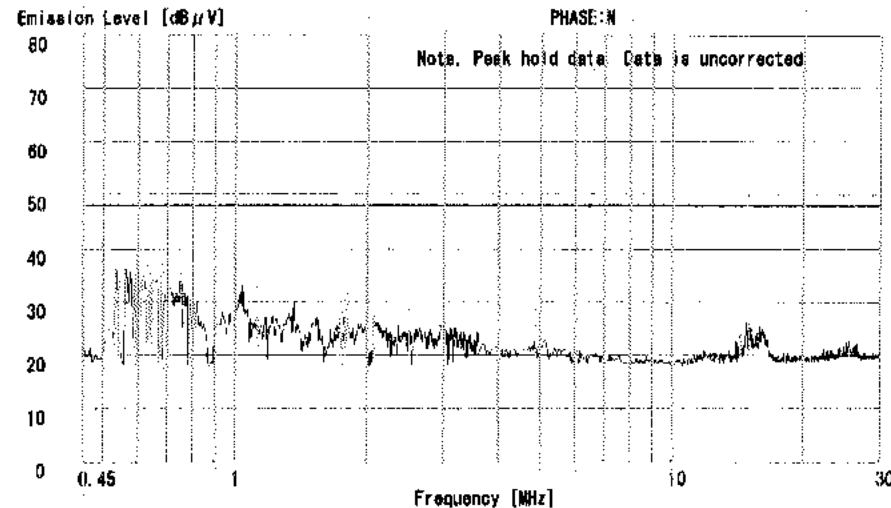


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Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV INPUT 2 + REC
Remarks : 1V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

Engineer : Tsubasa Takayama



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Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV INPUT 2 + REC
Remarks : 5V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	READING (N) QP [dBμV]	AV	READING (L1) QP [dBμV]	AV	LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT QP [dBμV]	AV	LIMITS QP [dBμV]	AV	MARGIN QP [dB]	AV
1.	0.4539	31.1	-	30.7	-	0.2	0.3	0.0	31.0	-	48.0	0.0	16.4	-
2.	0.4789	30.1	-	30.1	-	0.2	0.3	0.0	30.0	-	48.0	0.0	17.4	-
3.	0.6268	28.9	-	28.6	-	0.2	0.3	0.0	29.4	-	49.0	0.0	18.6	-
4.	0.7179	28.6	-	27.6	-	0.2	0.4	0.0	29.2	-	49.0	0.0	16.8	-
5.	1.0182	28.1	-	27.3	-	0.2	0.4	0.0	28.7	-	49.0	0.0	19.3	-
6.	18.1428	21.0	-	21.0	-	0.8	0.8	0.0	23.2	-	49.0	0.0	24.8	-

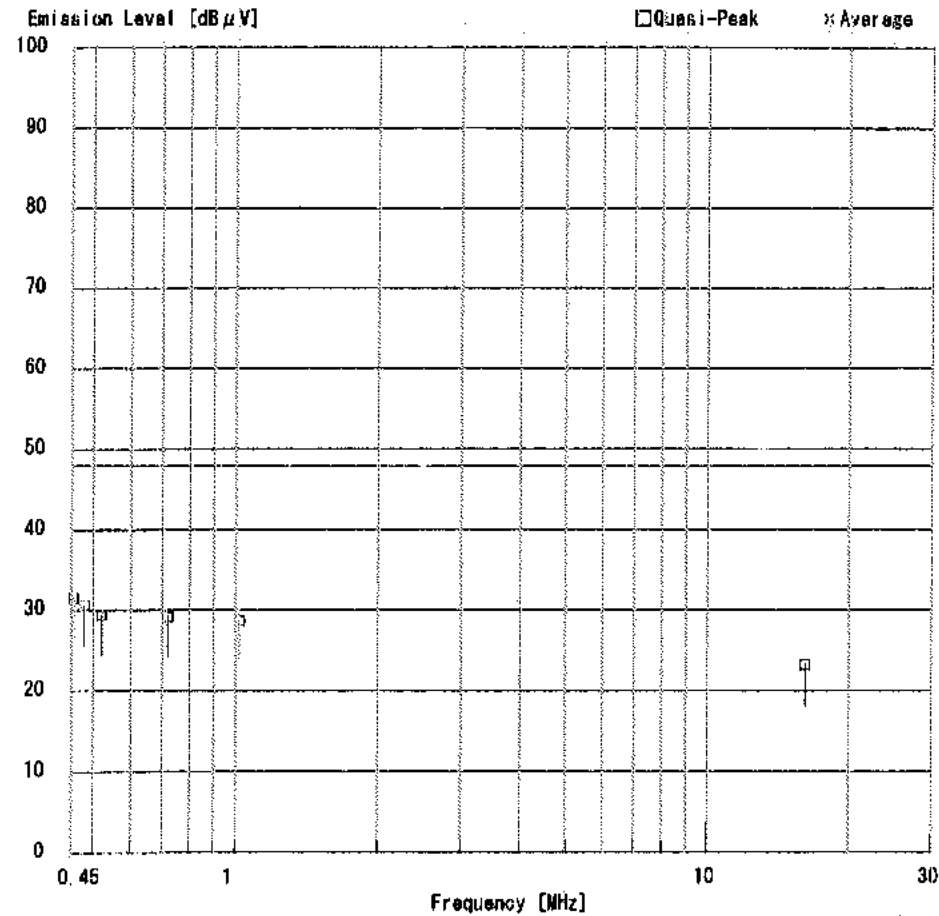
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V301U
Serial No. : -
Power : AC120V/60Hz
Mode : AV INPUT 2 + REC
Remarks : 5V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Teubasa Takayama

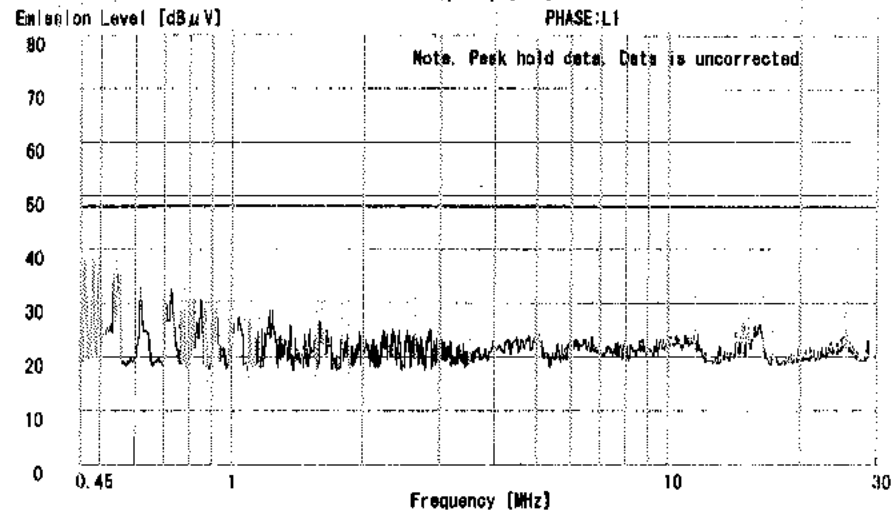
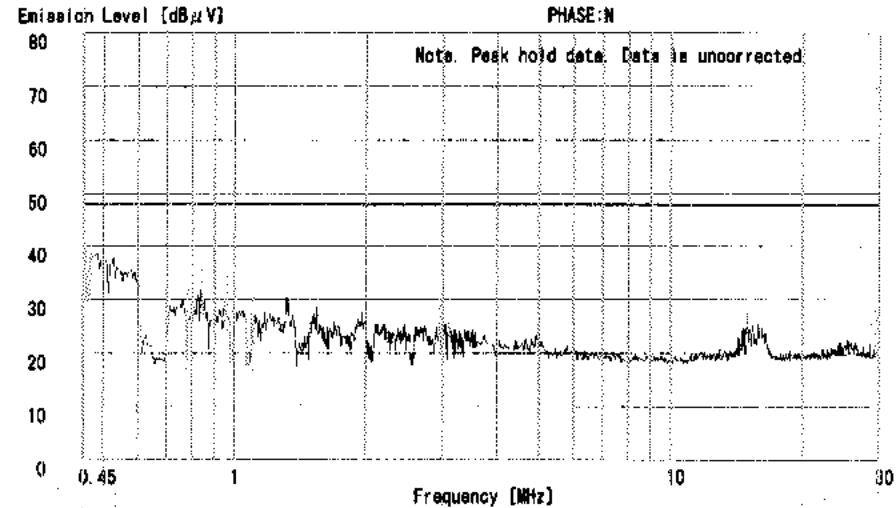


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Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V301U
Serial No. : -
Power : AC120V/60Hz
Mode : AV INPUT 2 + REC
Remarks : 5V p-p
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

Engineer : Teubasa Takayama



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YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant: ORION ELECTRIC CO., LTD.
Kind of Equipment: DVD Player and VCR
Model No.: SD-V391U
Serial No.:
Power: AC120V/60Hz
Mode: VCR PLAYBACK
Remarks:
Date: 5/15/2003
Phase: Single Phase
Temperature: 21 °C
Humidity: 59 %
Regulation: FCC Part15B CLASS B

Engineer: Taubasa Takayama

No.	FREQ. [MHz]	READING (N)		READING (L1)		L1 SN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
1.	0.4500	30.0	-	29.8	-	0.2	0.3	0.0	30.5	-	48.0	0.0	17.5	-
2.	0.5413	28.0	-	27.8	-	0.2	0.3	0.0	28.5	-	48.0	0.0	19.5	-
3.	0.7503	27.5	-	26.9	-	0.2	0.3	0.0	28.0	-	48.0	0.0	20.0	-
4.	0.8005	25.9	-	22.0	-	0.2	0.3	0.0	25.9	-	48.0	0.0	22.2	-
5.	1.0821	26.0	-	24.8	-	0.2	0.4	0.0	27.4	-	48.0	0.0	20.6	-
6.	20.0001	22.3	-	21.7	-	1.0	0.9	0.0	24.2	-	48.0	0.0	23.8	-
7.	20.6360	23.5	-	24.4	-	1.3	0.9	0.0	26.6	-	48.0	0.0	21.4	-

CALCULATION: READING + L1 SN FACTOR + CABLE LOSS + ATTEN.

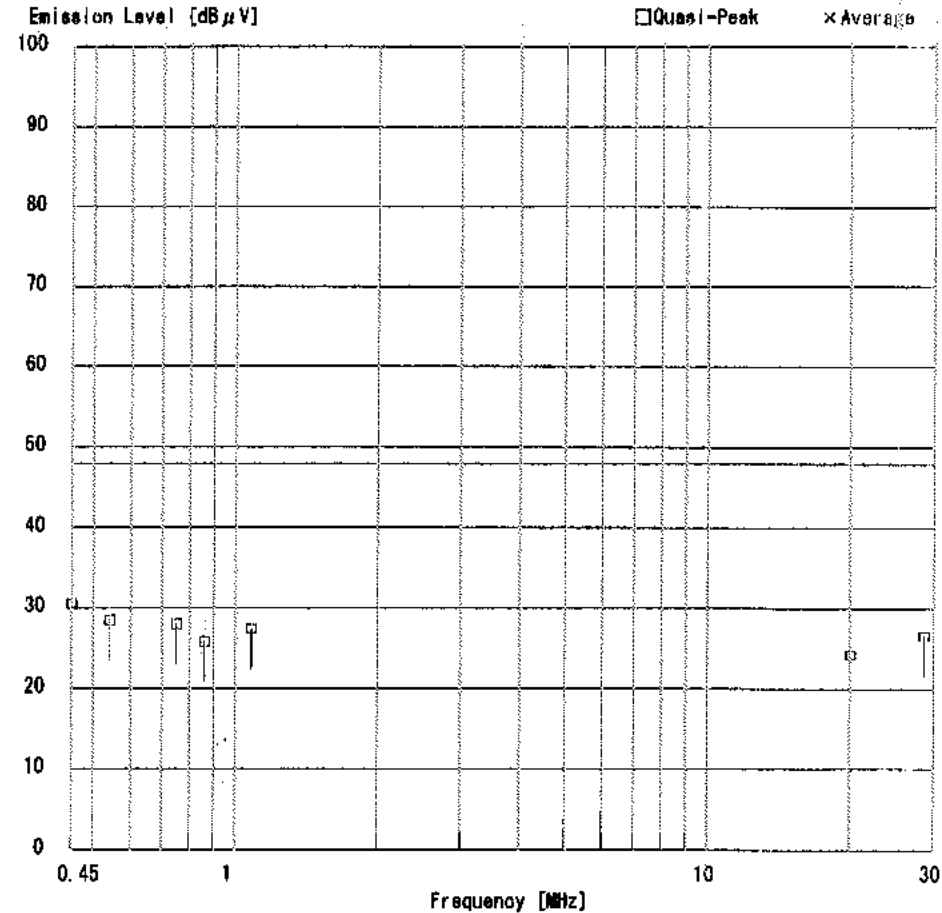
Except for the above table : adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant: ORION ELECTRIC CO., LTD.
Kind of Equipment: DVD Player and VCR
Model No.: SD-V391U
Serial No.:
Power: AC120V/60Hz
Mode: VCR PLAYBACK
Remarks:
Date: 5/15/2003
Phase: Single Phase
Temperature: 21 °C
Humidity: 59 %
Regulation: FCC Part15B CLASS B

Engineer: Taubasa Takayama

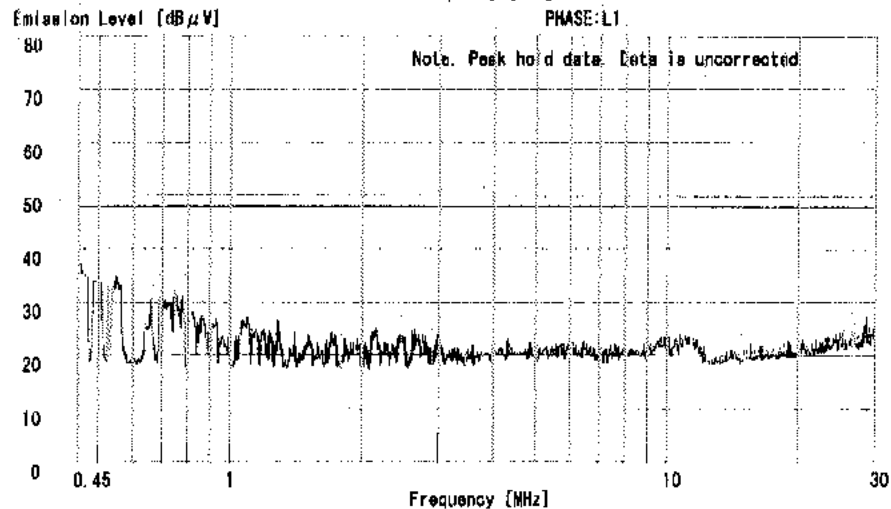
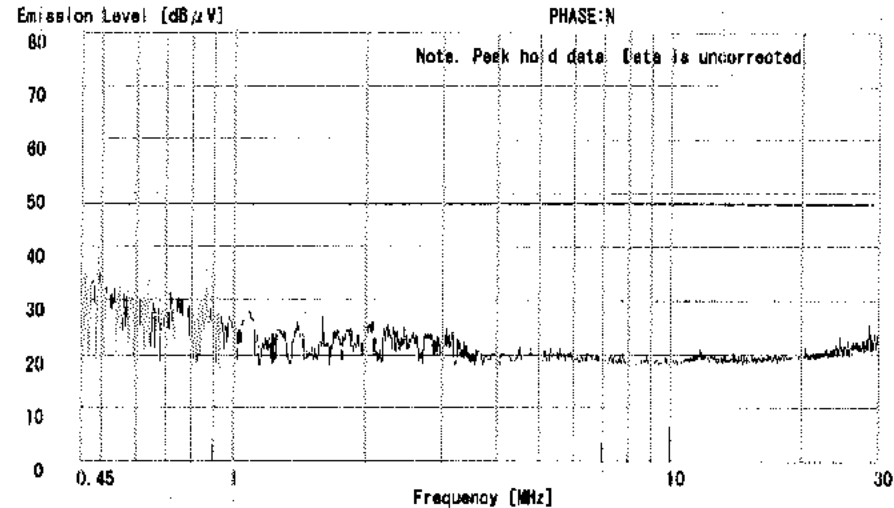


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : VCR PLAYBACK
Remarks :
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

Engineer : Teubasa Takayama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : DVD PLAY
Remarks :
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Teubasa Takayama

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
1.	0.4997	30.8	-	30.7	-	0.2	0.3	0.0	31.3	-	48.0	0.0	16.7	-
2.	0.5003	29.3	-	29.6	-	0.2	0.4	0.0	30.2	-	48.0	0.0	17.8	-
3.	0.9442	27.9	-	26.9	-	0.2	0.4	0.0	28.6	-	48.0	0.0	19.4	-
4.	1.0497	21.2	-	21.9	-	0.2	0.4	0.0	22.6	-	48.0	0.0	25.4	-
5.	17.3776	28.1	-	29.1	-	0.9	0.8	0.0	30.8	-	48.0	0.0	17.2	-
6.	28.9361	34.1	-	36.1	-	1.3	0.9	0.0	37.3	-	48.0	0.0	10.7	-

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

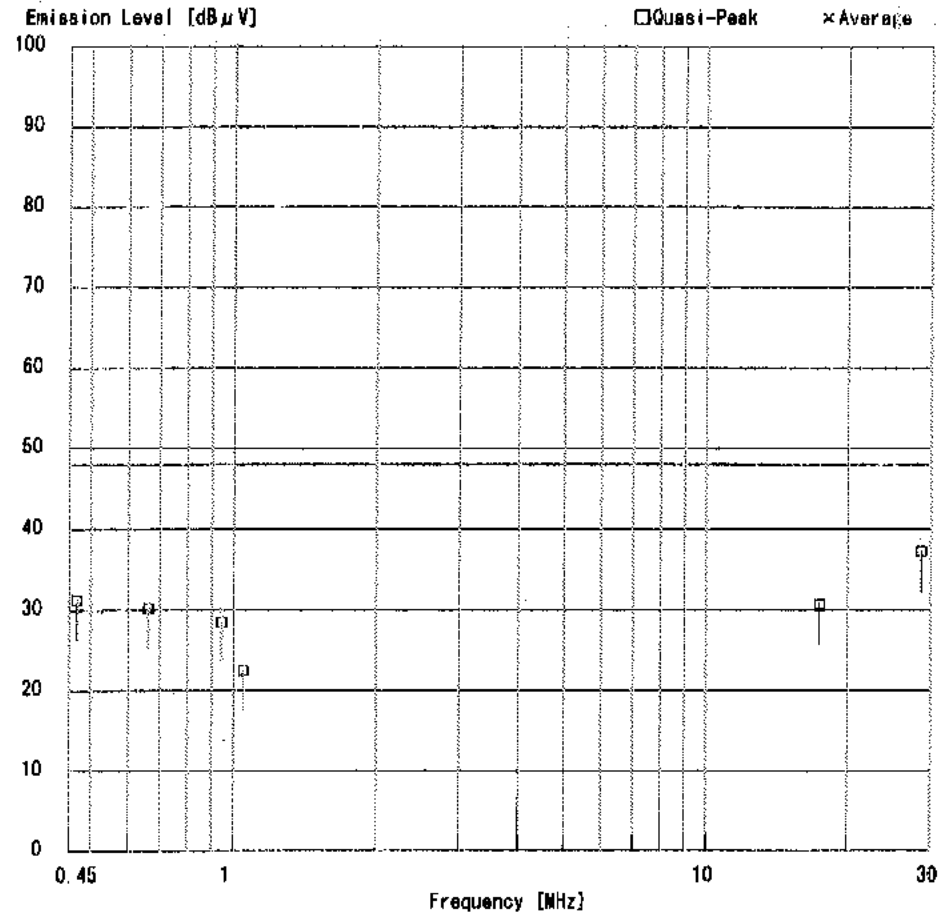
Except for the above table : adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JED025-YW-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : DVD PLAY
Remarks : -
Date : 5/16/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation : FCC Part15B CLASS B

Engineer : Teubasa Takayama

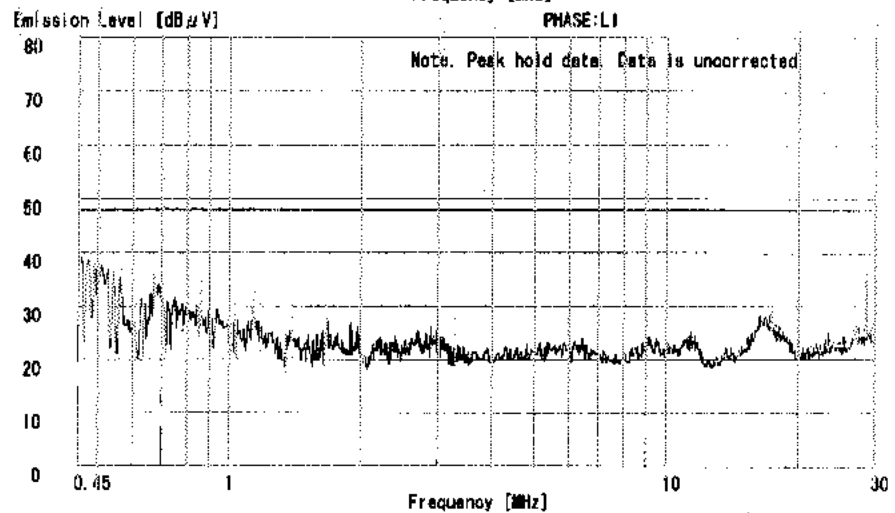
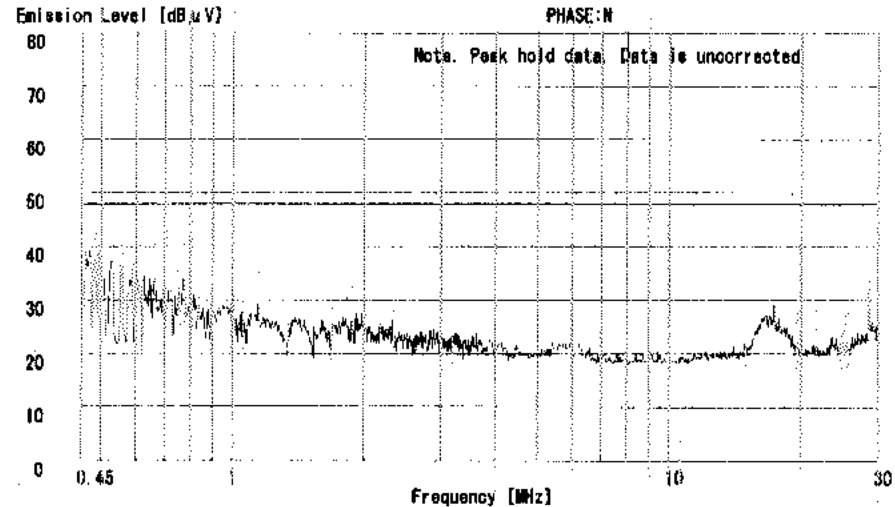


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : DVD PLAY
Remarks : -
Date : 5/15/2003
Phase : Single Phase
Temperature : 21 °C
Humidity : 59 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

Engineer : Teubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA NO.2 OPEN TEST SITE

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL No. : SD-V391U
POWER : AC120V/60Hz
DESCRIPTION : TV Reception+Rec

REPORT No. : 23JE0025-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : May 14, 2003

ENGINEER : Tsubasa Takayama

CH.	FREQ	READING		ANT TYPE	ANT. FAC. (dB)	CABLE LOSS (dB)	AMP GAIN (dB)	RESULTS		LIMIT (dBμV/m)	MARGIN	
	(MHz)	HOR.	VER.					(dBμV/m)	VER.		HOR.	VER.
VHF Fundamental												
2	101	23.1	25.5	BC	10.0	2.3	29.8	11.9	14.0	43.5	31.6	39.5
3	107	24.6	27.1	BC	11.0	2.6	29.8	14.3	16.9	43.5	29.1	29.6
4	113	23.5	25.2	BC	12.0	2.6	29.9	14.2	15.9	43.5	20.3	27.6
5	123	22.6	26.6	BC	13.4	2.6	29.8	13.8	18.8	43.5	28.7	32.7
6	139	23.3	23.9	BC	13.9	2.6	29.8	16.0	16.6	43.5	27.2	28.9
7	223	28.3	23.0	BC	16.1	3.4	29.7	28.1	18.5	46.0	21.9	27.2
8	233	26.2	22.6	BC	16.3	3.4	29.7	23.2	18.6	46.0	23.8	27.4
9	234	24.2	22.6	BC	16.6	3.5	29.8	20.5	13.9	46.0	25.5	27.1
10	239	22.2	26.0	BC	16.8	3.6	29.8	18.5	22.6	46.0	27.2	23.4
11	235	28.2	23.1	BC	17.0	3.7	29.8	22.1	20.0	46.0	23.9	26.0
12	251	23.3	25.3	BC	17.2	3.8	29.8	20.5	23.8	46.0	25.2	23.4
13	252	21.6	24.3	BC	17.5	3.8	29.8	19.1	21.8	46.0	26.9	24.2
VHF 2nd Harmonic												
2	202	21.6	23.0	BC	15.4	3.3	29.7	16.6	17.0	43.5	26.9	26.3
3	214	21.7	21.5	BC	15.8	3.3	29.7	16.1	13.2	43.5	25.4	26.3
4	226	23.2	21.5	BC	16.3	3.4	29.7	21.5	17.5	46.0	24.8	25.5
5	238	21.1	21.7	BC	17.0	3.7	29.8	18.9	18.6	46.0	28.9	27.3
6	258	20.1	22.2	BC	17.5	3.8	29.8	19.5	19.8	46.0	26.4	26.2
7	343	22.4	21.8	LP	16.4	3.2	30.3	19.8	20.2	46.0	26.2	25.8
8	434	22.1	22.1	LP	16.6	3.3	30.2	19.8	19.8	46.0	26.2	26.2
9	466	22.6	23.9	LP	16.9	3.4	30.2	20.7	22.0	46.0	25.3	28.0
10	478	22.9	24.2	LP	17.2	3.4	30.2	21.3	22.6	46.0	24.7	25.4
11	499	22.8	24.5	LP	17.8	3.4	30.3	21.3	23.2	46.0	24.5	22.8
12	502	23.1	25.3	LP	17.7	3.4	30.2	22.5	24.2	46.0	24.9	21.8
13	513	23.6	25.9	LP	17.9	3.3	30.2	22.8	25.1	46.0	25.2	20.9

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA NO.2 OPEN TEST SITE

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL No. : SD-V391U
POWER : AC120V/60Hz
DESCRIPTION : TV Reception+Rec

REPORT No. : 23JE0025-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : May 14, 2003

ENGINEER : Tsubasa Takayama

CH.	FREQ	READING		ANT TYPE	ANT. FAC.	CABLE LOSS	AMP GAIN	RESULTS		LIMIT	MARGIN	
	(MHz)	HOR.	VER.					HOR.	VER.		(dBμV/m)	(dBμV/m)
UHF Fundamental												
14	817	31.3	32.3	LP	17.2	6.0	30.3	36.3	41.4	46.0	9.3	1.8
19	847	36.4	39.9	LP	18.4	5.8	30.0	36.8	40.1	46.0	9.3	3.9
28	693	30.1	36.0	LP	19.1	6.1	30.1	31.2	37.1	46.0	14.8	8.9
36	649	36.5	35.2	LP	19.8	6.3	30.1	36.8	37.3	46.0	9.2	8.3
44	697	30.1	30.7	LP	20.5	6.3	30.1	31.1	35.9	46.0	12.7	12.1
55	751	24.8	30.4	LP	20.8	7.2	30.2	27.9	33.9	46.0	18.1	12.1
61	798	25.8	26.5	LP	21.0	7.4	29.8	28.4	31.1	46.0	17.6	14.9
69	847	25.1	25.6	LP	21.3	7.7	29.8	30.3	30.9	46.0	15.1	15.1
UHF 2nd Harmonic												
14	1033	36.9	34.3	HO	24.3	1.9	30.6	44.0	39.3	44.0	10.3	14.7
19	1094	34.3	35.3	HO	24.8	1.9	30.6	42.5	41.5	44.0	11.5	12.5
28	1202	31.5	32.1	HO	25.1	2.0	30.5	40.4	44.0	44.0	13.6	10.9
36	1298	40.8	31.1	HO	25.9	2.0	30.4	39.3	30.6	44.0	14.7	13.0
44	1394	39.1	39.7	HO	26.5	2.1	30.4	39.1	39.7	44.0	14.9	14.3
53	1501	33.1	33.9	HO	26.8	2.1	30.3	33.1	45.8	44.0	10.3	8.5
61	1598	46.3	45.4	HO	27.5	2.2	30.3	39.7	39.9	44.0	13.7	14.1
69	1694	46.7	49.3	HO	28.2	2.2	30.2	38.4	41.7	44.0	15.6	12.5

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL No. : SD-V3011
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 23JE0025-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 100-847MHz 6dB
1030-1694MHz 0dB
DATE : May 14, 2003

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V3011
Serial No. :
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 0dBmV
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Teubasa Takayama

ENGINEER: T. Dulacra, C. Valverde												
CH	FREQ [MHz]	READING		ANT TYPE	ANT. FAC. [dB]	CABLE LOSS [dB]	AMP GAIN [dB]	RESULTS		LIMIT [dBmV]	MARGIN	
		HOR. [dBμV]	VER. [dBμV]					HOR. [dB]	VER. [dB]			
CATV Fundamental												
1	45	22.9	26.2	BC	13.0	2.5	29.8	18.6	18.4	43.5	25.9	22.1
95	137	25.4	24.2	BC	14.6	2.9	29.8	18.1	17.9	43.5	25.4	22.6
97	149	21.2	21.1	BC	13.0	2.3	29.8	16.2	16.2	43.5	23.5	22.3
99	161	22.8	21.6	BC	15.2	2.8	29.8	17.7	16.8	43.5	25.8	22.7
14	167	25.9	27.1	BC	15.5	2.8	29.8	23.9	21.2	43.5	18.6	21.8
18	181	25.0	25.6	BC	15.6	3.2	29.8	20.9	20.6	43.5	22.6	22.0
22	215	24.8	23.7	BC	15.9	3.3	29.8	20.3	18.3	43.5	23.1	22.2
25	225	22.9	23.6	BC	17.7	3.8	29.8	20.6	21.7	46.0	25.4	22.7
28	239	22.5	22.3	BC	19.1	4.1	29.8	24.0	21.6	46.0	21.2	21.4
36	241	25.1	20.2	LP	14.9	4.4	30.3	21.0	25.5	46.0	15.0	20.5
37	247	24.5	17.5	LP	15.0	4.5	30.3	22.9	22.9	46.0	16.1	21.1
65	315	17.6	16.2	LP	17.0	5.5	30.3	14.8	15.6	46.0	11.2	19.4
92	622	26.8	22.1	LP	20.5	5.8	30.6	17.9	22.2	46.0	12.1	19.8
100	692	20.6	24.0	LP	20.3	5.8	30.3	13.7	27.1	46.0	12.3	2.9
113	735	26.4	27.5	LP	20.9	7.5	29.9	22.6	22.0	46.0	15.4	14.0
125	840	25.8	22.0	LP	21.1	7.7	29.5	21.1	22.3	46.0	14.9	3.2
CATV 2nd Harmonic												
1	234	23.2	21.9	BC	16.7	3.6	29.8	19.7	17.6	46.0	26.3	23.4
95	254	21.5	21.3	BC	18.1	3.9	29.8	19.7	19.3	46.0	26.3	23.7
97	269	21.5	21.5	BC	19.0	4.1	29.9	20.7	20.7	46.0	25.3	23.3
99	322	25.7	26.8	LP	14.8	4.3	30.0	20.3	21.9	46.0	15.2	24.1
14	334	20.0	20.2	LP	15.9	4.4	30.1	25.2	25.4	46.0	20.8	20.6
18	383	26.9	24.9	LP	15.3	4.8	30.2	22.8	24.5	46.0	22.2	23.2
22	430	20.3	22.4	LP	16.1	5.1	30.2	22.3	29.4	46.0	18.7	16.6
25	526	24.9	20.7	LP	18.1	5.6	30.1	24.3	20.3	46.0	21.5	15.7
28	583	28.9	22.5	LP	19.1	6.1	30.1	30.0	25.6	46.0	16.0	12.4
36	682	21.5	21.3	LP	20.2	6.7	30.0	24.4	24.3	46.0	21.6	21.7
37	694	21.4	21.5	LP	20.4	6.8	30.1	24.5	24.6	46.0	21.3	21.4
65	1030	22.9	26.8	HO	24.6	1.9	38.5	40.3	44.2	54.0	13.2	9.3
94	1378	28.3	20.3	HO	26.2	2.1	38.4	22.2	49.3	54.0	15.3	13.2
100	1580	28.3	21.2	HO	26.3	2.1	38.4	38.3	41.2	54.0	15.2	12.8
113	1546	49.3	47.0	HO	27.1	2.1	38.3	46.2	47.9	54.0	13.8	14.1
125	1690	48.1	48.3	HO	28.1	2.2	38.2	46.2	46.2	54.0	13.8	13.8

No.	FREQ. [MHz]	ANT TYPE	READING HOR VER		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR VER		LIMITS HOR VER		MARGIN HOR VER	
			[dBμV]	[dBμV]					[dBμV/m]	[dBμV/m]	[dBμV/m]	[dBμV/m]	[dB]	[dB]
1.	118.13	BB	41.2	48.0	12.9	20.0	2.7	6.0	32.9	39.7	45.5	10.5	3.8	

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

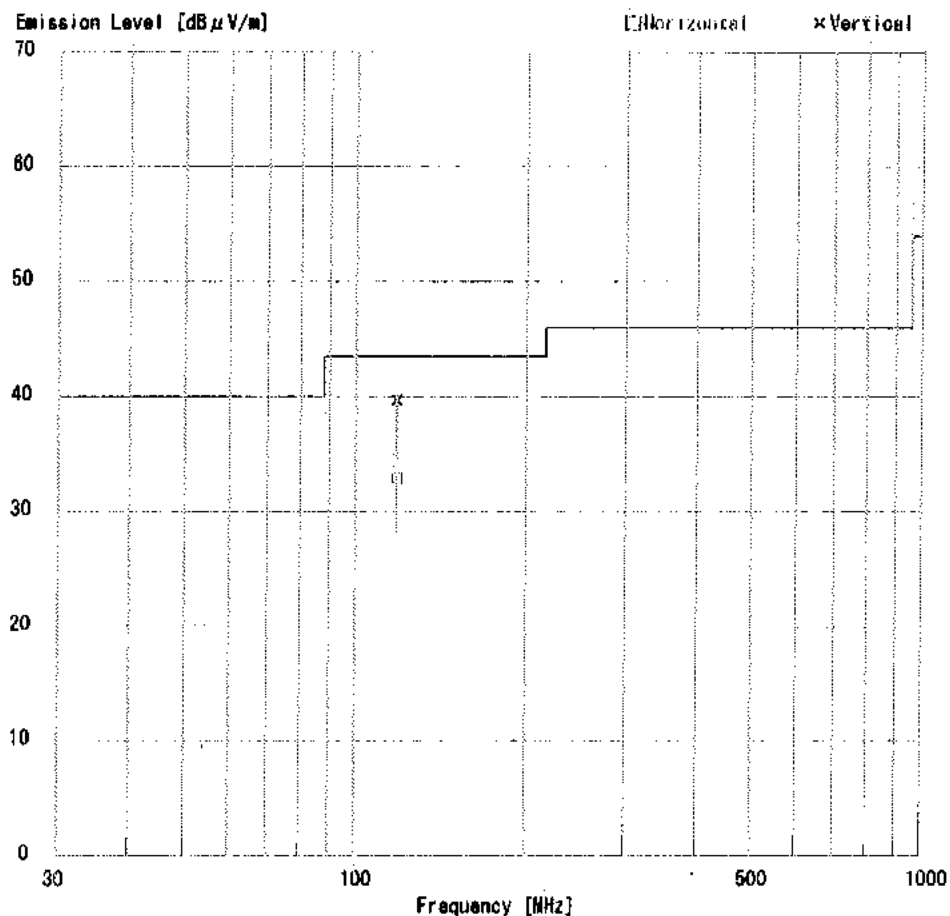
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 0dBmV
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	VER [dB]
1.	119.13	BB	41.6	48.1	12.9	29.0	2.7	0.0	39.2	39.8	45.6	10.3	8.7
2.	124.00	BB	34.7	41.9	13.8	29.0	2.7	0.0	27.0	34.2	45.6	16.6	9.3
3.	153.66	BB	37.0	35.3	15.0	29.8	3.0	0.0	31.1	29.4	45.6	12.4	14.1
4.	185.65	BB	38.7	32.1	15.8	29.8	3.3	0.0	31.4	27.4	45.6	12.1	16.1
5.	216.01	BB	40.2	31.8	15.9	30.7	3.6	0.0	35.0	26.6	45.0	11.0	18.4
6.	219.39	BB	42.0	31.9	16.9	30.7	3.6	0.0	36.9	26.8	46.0	9.1	19.2
7.	305.01	BB	38.9	39.1	15.5	30.9	6.2	0.0	33.7	34.9	45.0	11.3	13.1
8.	623.34	BB	31.9	35.4	19.4	30.9	6.7	0.0	32.1	35.6	46.0	13.9	9.6
9.	635.05	BB	37.3	35.5	20.3	30.9	6.9	0.0	39.6	37.7	46.0	6.6	6.3
10.	691.85	BB	36.7	37.9	20.3	30.9	7.0	0.0	39.2	39.9	46.0	6.8	6.2
11.	709.75	BB	34.5	37.7	20.3	30.9	7.1	0.0	37.2	40.1	46.0	8.8	6.6
12.	725.83	BB	33.0	36.9	20.0	30.9	7.3	0.0	35.9	38.7	46.0	10.1	7.9

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

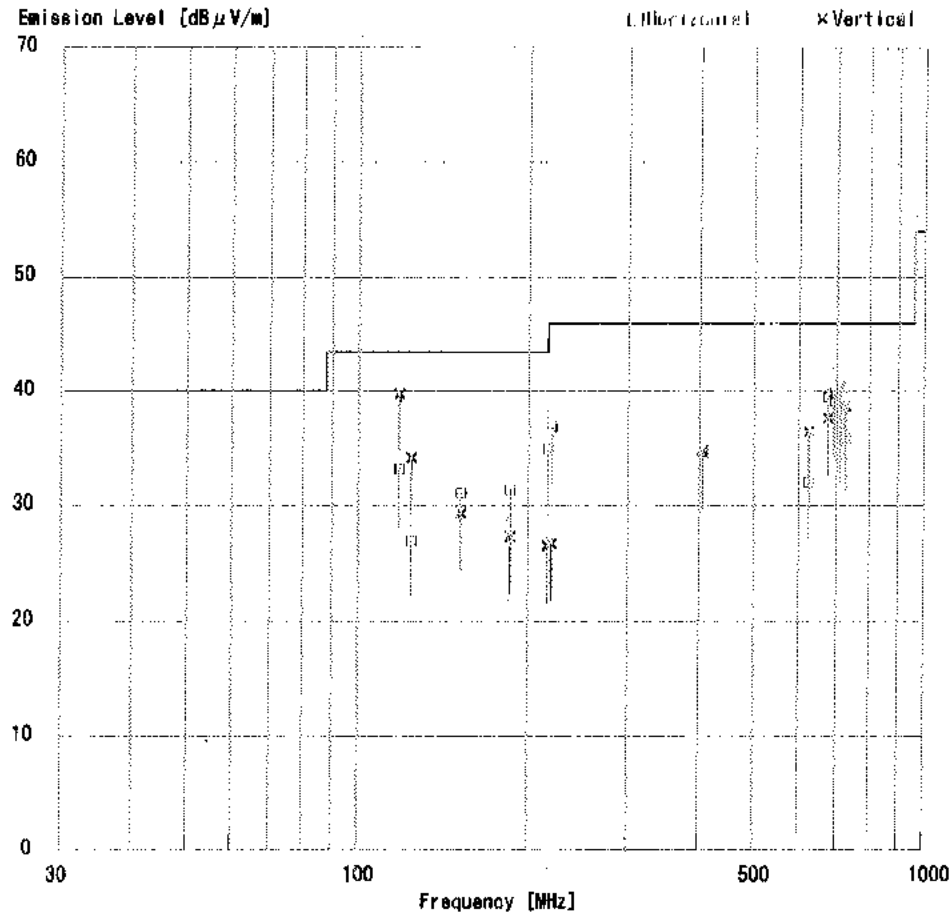
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 26dBμV
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : AV Input1 + Rec
Remarks : 1V p-p
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dBμV]	VER [dBμV]					HOR [dBμV/m]	VER [dBμV/m]	HOR [dBμV/m]	VER [dBμV/m]	HOR [dB]	VER [dB]
1.	118.13	BA	37.1	47.3	12.9	20.9	2.7	6.0	38.8	38.9	43.5	14.7	4.6	

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

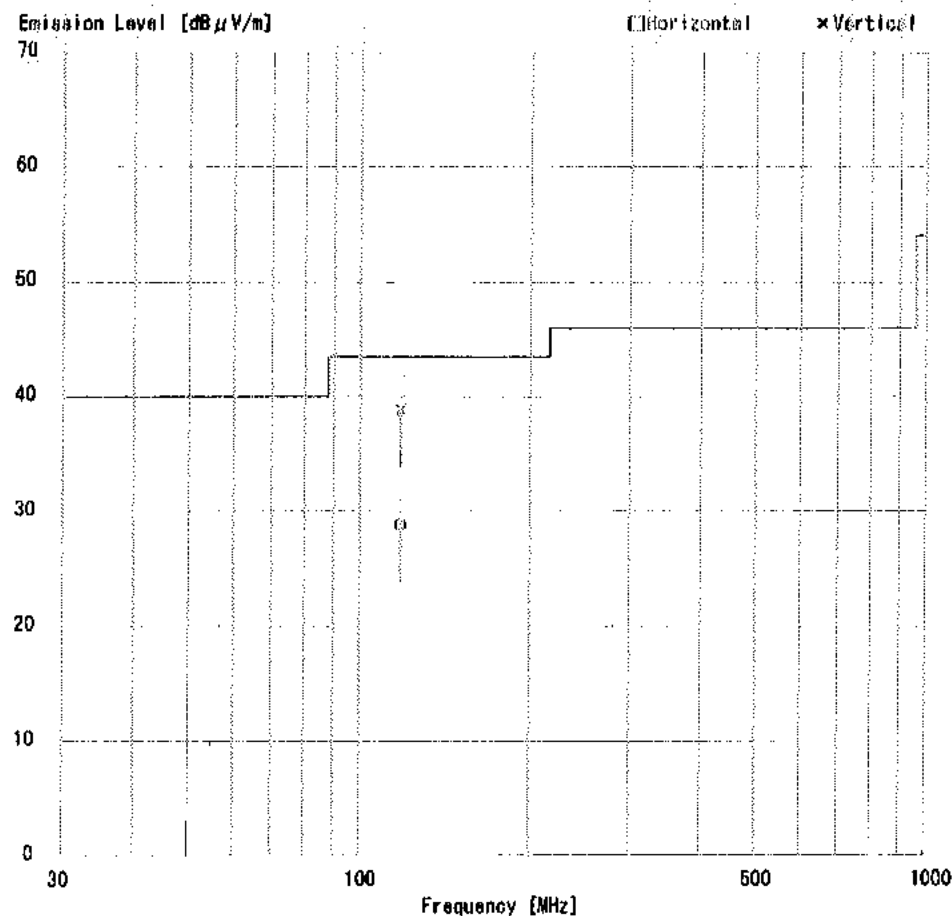
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : AV Input1 + Rec
Remarks : 1V p-p
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : AV Input1 + Rec
Remarks : 5V p-p
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dB μV]	READING VER [dB μV]	ANT FACTOR [dB/μ]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dB μV/m]	RESULT VER [dB μV/m]	LIMITS [dB μV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	156.13	BB	37.3	47.3	12.0	20.0	2.7	6.0	29.6	39.0	43.8	15.0	4.6
2.	124.01	BB	34.6	41.6	13.6	20.0	2.7	6.0	26.8	33.9	43.8	16.7	9.6
3.	154.66	BB	33.3	34.6	16.0	20.0	3.0	6.0	26.6	28.7	43.8	16.0	14.8
4.	216.01	BB	40.8	33.1	15.0	30.7	0.0	6.0	36.4	27.9	46.0	16.6	18.1
5.	216.36	BB	42.7	30.7	16.0	30.7	0.0	6.0	37.6	31.6	46.0	6.4	14.4
6.	406.01	BB	40.2	41.0	16.6	30.0	5.2	0.0	36.0	36.8	46.0	10.0	9.2
7.	652.14	BB	35.6	39.8	18.0	30.3	6.8	0.0	36.4	36.1	46.0	10.0	9.9
8.	673.00	BB	36.9	35.6	20.2	30.3	6.9	0.0	39.1	37.8	46.0	6.9	8.2
9.	691.89	BB	37.0	38.1	20.4	30.0	7.0	0.0	40.0	40.6	46.0	6.0	6.4
10.	708.79	BB	34.6	36.5	20.5	30.0	7.1	0.0	37.2	39.2	46.0	8.8	6.8
11.	725.63	BB	33.6	35.6	20.6	30.0	7.3	0.0	36.4	38.6	46.0	9.6	7.6

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

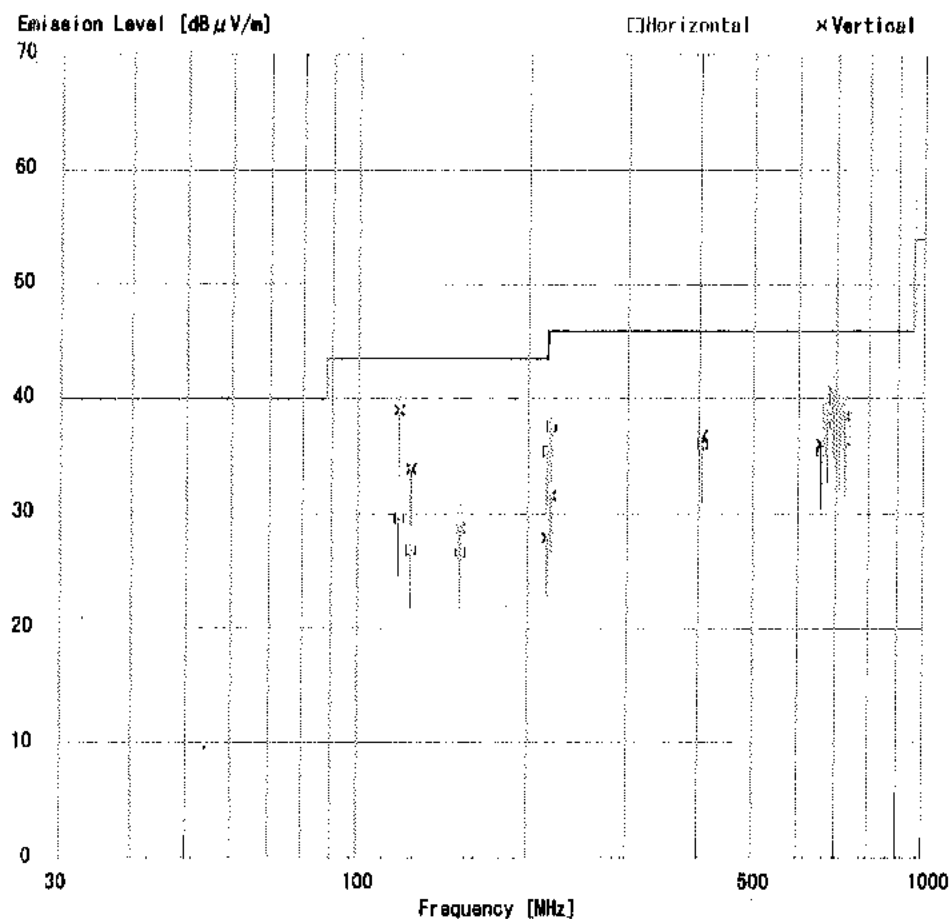
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1 + Rec
Remarks : 5V p-p
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2 + Rec
Remarks : 1V p-p
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
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 [dBμV/m]	MARGIN	
			HOR	VER					HOR	VER		HOR	VER
1.	691.89	H	38.0	37.1	30.4	30.9	7.0	6.0	37.5	39.6	46.0	8.5	6.4

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

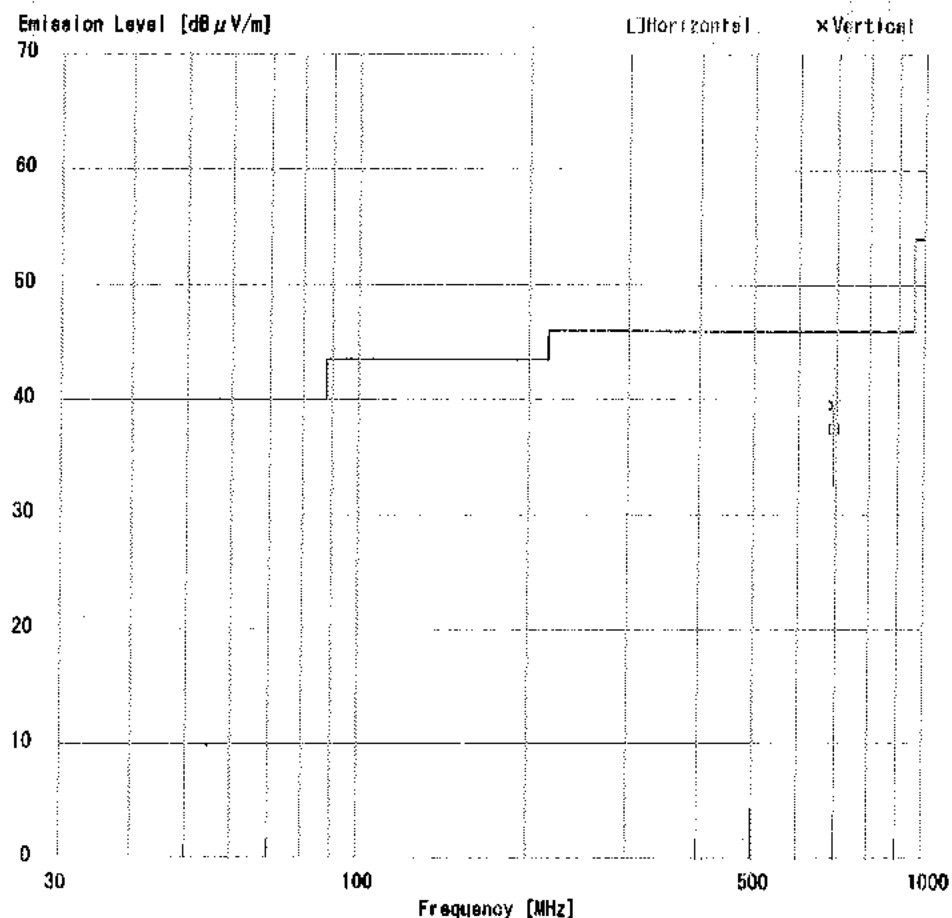
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz:Bi-conical, 300-1000MHz:Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2 + Rec
Remarks : 1V p-p
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2 + Rec
Remarks : 5V p-p
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/μV]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]	HOR [dB μV/m]	VER [dB μV/m]	HOR [dB]	VER [dB]
1.	100.00	DB	41.1	45.2	12.9	29.9	2.7	6.0	35.0	35.0	43.5	43.5	10.7	6.6
2.	150.00	DB	33.0	39.7	13.5	29.9	2.7	6.0	25.9	33.0	43.5	43.5	17.0	11.5
3.	150.00	DB	34.0	32.0	15.0	29.9	2.0	5.9	28.1	27.0	43.5	43.5	15.4	16.5
4.	210.00	DB	41.3	32.7	15.9	30.7	3.6	6.0	35.6	22.5	43.5	43.5	6.9	16.0
5.	210.00	DB	42.3	34.6	16.0	30.7	3.8	6.0	37.7	29.6	43.5	43.5	8.3	16.5
6.	300.00	DB	30.5	39.2	16.5	30.9	6.3	6.0	35.3	35.0	43.5	43.5	9.7	13.0
7.	300.00	DB	33.0	34.3	19.9	30.9	6.8	6.9	34.8	30.1	43.5	43.5	11.2	9.9
8.	600.00	DB	36.0	35.9	20.2	30.8	6.9	6.9	38.2	38.0	43.5	43.5	7.8	8.0
9.	600.00	DB	36.7	37.2	20.4	30.8	7.0	6.0	39.2	39.7	43.5	43.5	6.8	6.3
10.	700.00	DB	34.0	37.0	20.5	30.9	7.1	6.0	36.7	39.7	43.5	43.5	6.3	6.3
11.	700.00	DB	32.6	36.7	20.6	30.9	7.3	5.9	35.5	39.6	43.5	43.5	10.6	6.4

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

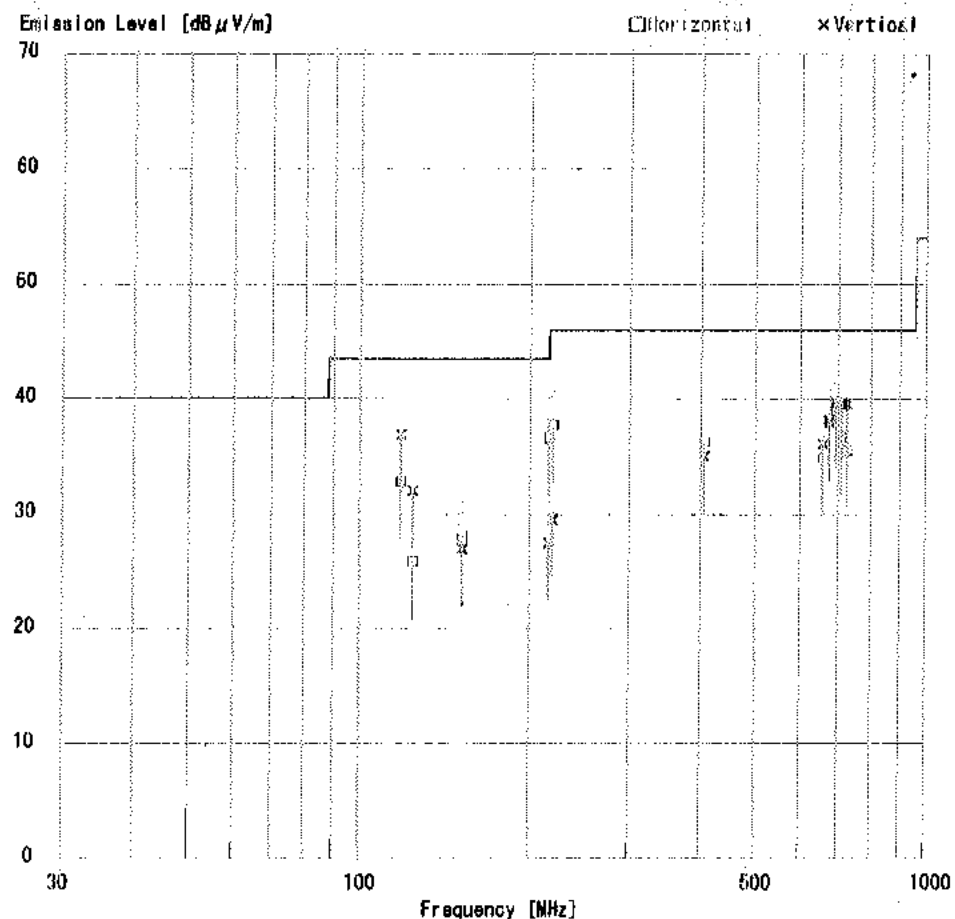
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2 + Rec
Remarks : 5V p-p
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer Taubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : -
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer Taubasa Takayama

No.	FREQ. [MHz]	ANT. TYPE	READING		ANT. FACTOR [dB/m]	AMP. GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR	VER					HOR	VER	[dB μV/m]	[dB μV/m]	HOR	VER
1.	118.18	BB	40.6	44.6	12.9	30.9	2.7	6.0	32.9	36.2	43.5	43.5	11.3	7.3
2.	186.62	BB	36.7	39.1	16.8	26.8	3.3	6.0	32.0	24.4	43.5	43.5	11.6	19.1
3.	216.06	BB	41.1	33.6	16.9	30.7	3.0	6.0	36.9	28.4	43.5	43.5	7.6	16.1
4.	219.37	BB	42.3	36.6	16.0	30.7	3.0	6.0	37.7	31.4	46.0	46.0	8.3	14.6
5.	405.00	BB	38.9	39.6	15.5	30.9	8.2	6.0	34.7	36.4	46.0	46.0	11.3	10.6
6.	675.00	BB	34.6	38.1	20.2	30.8	6.9	6.0	36.8	38.3	46.0	46.0	9.2	7.7
7.	843.76	BB	24.4	32.2	21.1	30.4	7.0	6.0	28.9	36.7	46.0	46.0	17.1	9.0

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

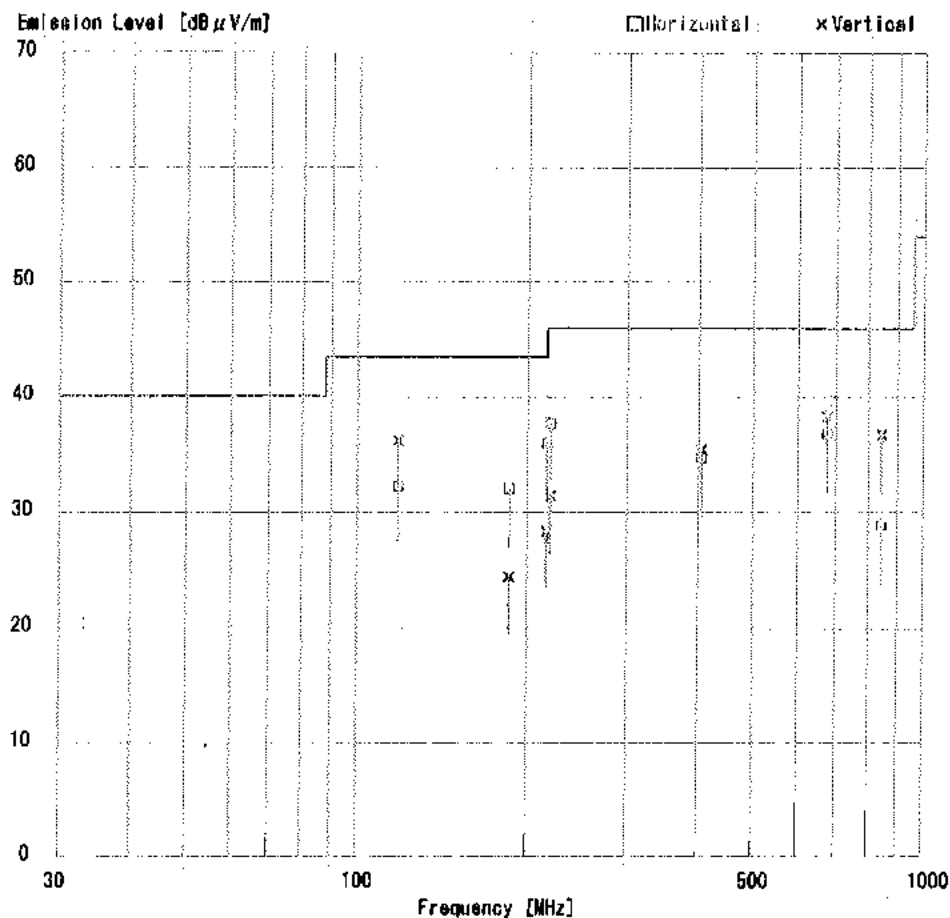
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dB μ V]	VER [dB μ V]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dB μ V/m]	VER [dB μ V/m]	LIMITS [dB μ V/m]	MARGIN HOR [dB]	VER [dB]
1.	120.62	BB	35.8	40.7	18.2	29.8	2.7	6.0	29.8	32.8	45.5	15.6	13.7
2.	165.69	BB	37.4	40.0	18.3	29.8	3.2	6.0	32.2	35.0	48.6	13.3	13.7
3.	168.78	BB	40.3	29.8	18.6	29.9	3.2	6.0	35.2	26.7	45.5	8.3	13.6
4.	233.00	BB	37.6	30.5	16.9	30.5	2.8	5.9	35.7	28.0	46.0	12.3	13.4
5.	409.00	BB	39.1	39.6	16.5	30.9	6.2	6.0	32.9	35.4	46.0	13.3	13.6
6.	550.00	BB	31.2	36.7	18.3	30.7	6.1	5.9	30.8	36.3	46.0	15.2	9.7
7.	703.75	BB	29.2	32.5	20.5	30.9	7.1	6.0	31.9	35.2	46.0	14.1	10.8

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

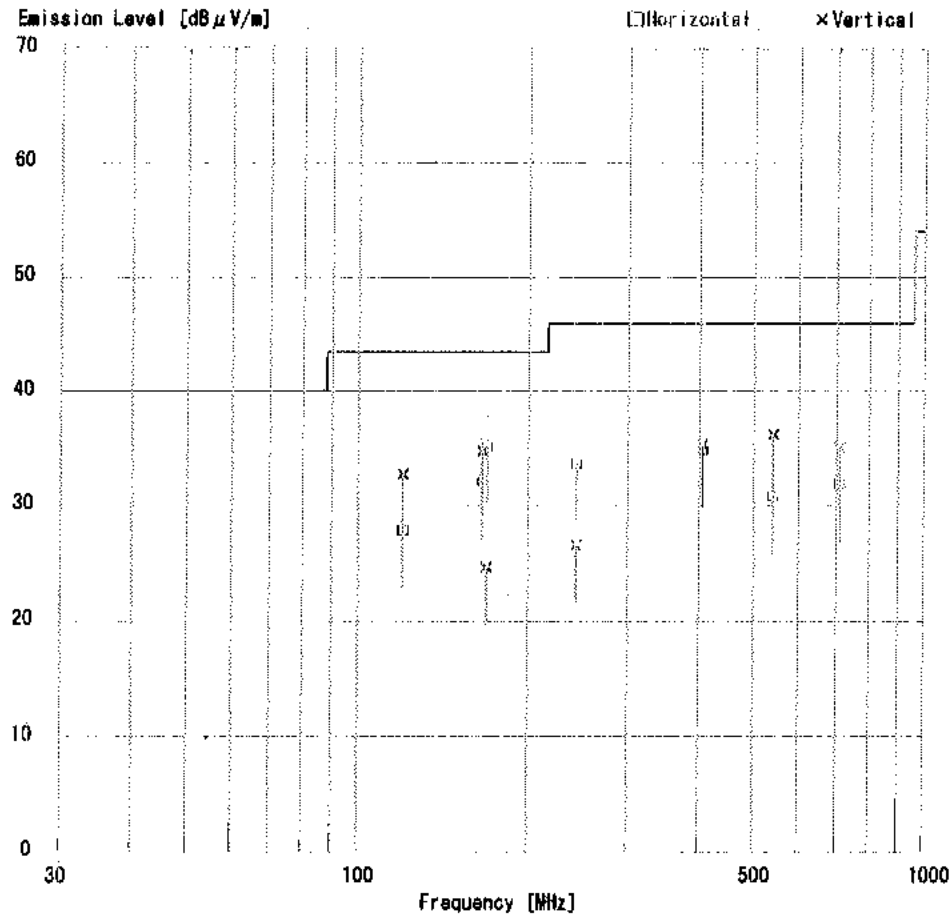
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Teubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. :
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 5/14/2003
Test Distance : 3 m
Temperature : 21 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Teubasa Takayama

No.	FREQ. [MHz]	ANT. TYPE	READING		ANT. FACTOR [dB/m]	AMP. GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR	VER					HOR	VER	HOR	VER	HOR	VER
1.	1234.96	BB	50.7	54.3	26.4	38.6	2.0	0.0	39.6	43.2	34.0	34.4	10.9	11.7
2.	1330.02	BB	50.2	52.8	26.9	38.4	2.0	0.0	39.2	42.8	34.0	34.3	11.2	11.7
3.	1632.34	BB	50.3	53.4	26.8	38.3	2.1	0.0	39.9	43.0	34.0	33.1	10.9	11.7
4.	1734.99	BB	50.4	49.7	26.4	38.1	2.3	0.0	43.0	43.8	34.0	10.0	11.7	11.7

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

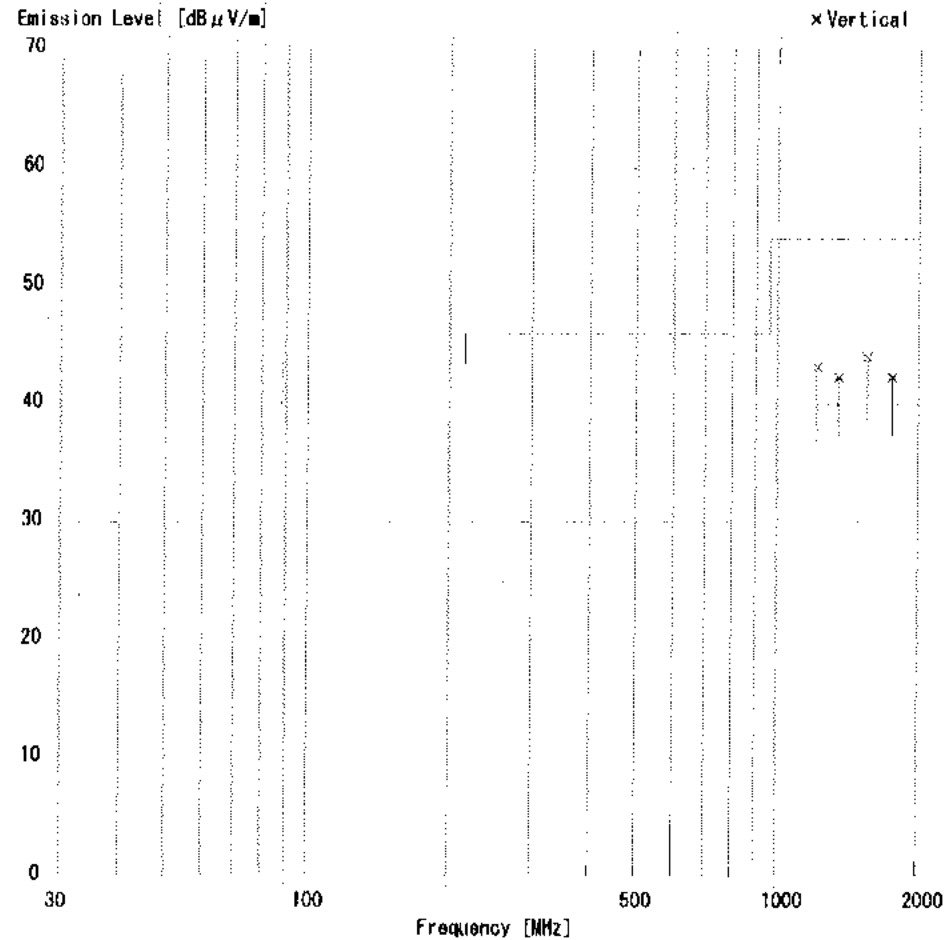
Expect for the above table : adequate margin data below the limits.
ANT. TYPE : 1-2GHz Horn

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 23JE0025-YW-1

Applicant: Orion Electric Co., Ltd.
Kind of Equipment: DVD Player and VCR
Model No.: SD-V391U
Serial No.:
Power: AC120V/60Hz
Mode: DVD Play
Remarks:
Date: 5/14/2003
Test Distance: 3 m
Temperature: 21 °C
Humidity: 61 %
Regulation: FCC Part15B CLASS B

Engineer: Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No.: 23JE0025-YW-1

Applicant: Orion Electric Co., Ltd.
Kind of Equipment: DVD Player and VCR
Model No.: SD-V391U
Serial No.:
Power: AC120V/60Hz
Mode: VCR Playback
Remarks: Test Channel #3
Date: 5/14/2003
Test Distance: 3 m
Temperature: 23 °C
Humidity: 61 %
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 μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]	HOR [dB]	VER [dB]		
1.	61.25	BB	34.7	32.3	8.2	20.9	2.0	6.9	30.3	18.6	40.0	19.7	21.6	
2.	65.75	BB	33.3	30.7	7.3	20.9	2.1	6.9	18.7	16.2	40.0	21.3	23.6	
3.	122.50	BB	33.5	26.4	13.4	20.9	3.7	6.9	16.7	16.6	43.6	27.8	28.9	
4.	245.00	BB	25.6	22.2	17.0	30.5	3.8	6.9	21.9	16.6	46.0	24.2	29.6	

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

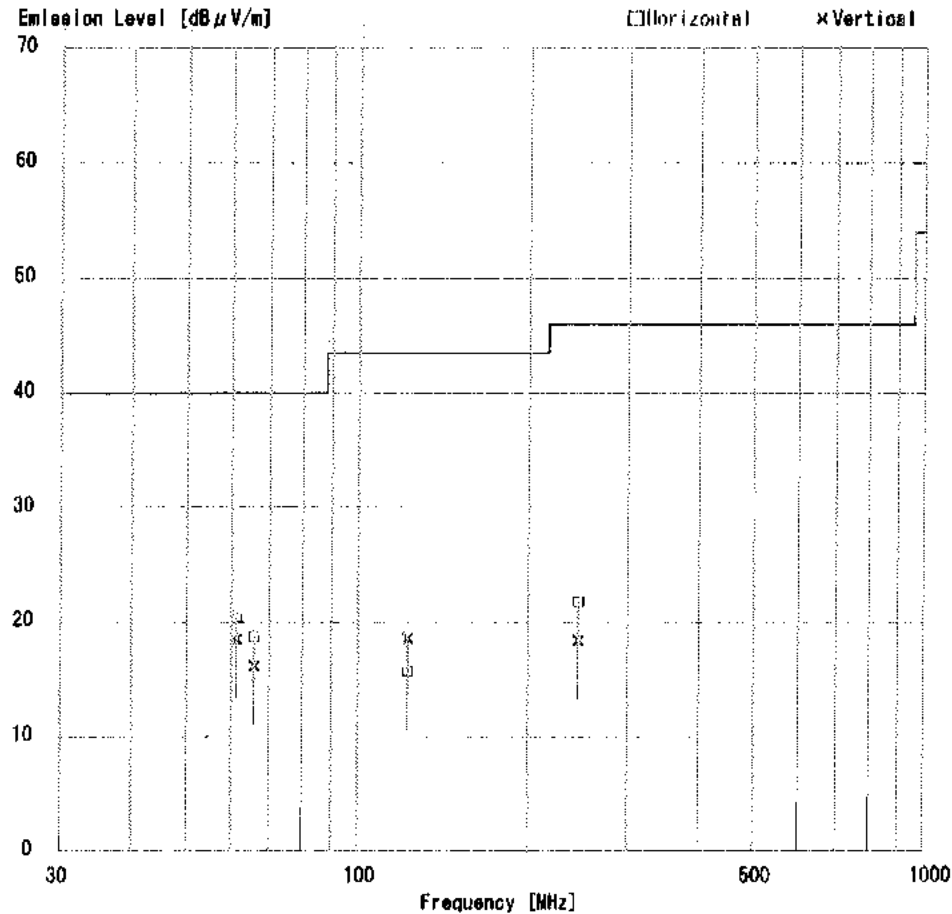
Except for the above table: adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : Test Channel #3
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : Test Channel #4
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer Tsubasa Takayama

No.	FREQ. [MHz]	ANT. TYPE	READING HOR [dB μ V]	READING VER [dB μ V]	ANT. FACTOR [dB/m]	AMP. GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dB μ V/m]	RESULT VER [dB μ V/m]	LIMITS HOR [dB μ V/m]	LIMITS VER [dB μ V/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	67.25	H	31.0	33.5	7.0	20.9	5.1	6.0	16.7	18.6	46.0	48.8	23.3	21.4
2.	71.75	H	28.6	30.6	6.4	20.0	5.1	6.0	13.0	15.0	46.0	48.8	23.0	22.0
3.	134.50	H	22.1	21.7	14.4	20.9	2.8	6.0	15.4	15.0	46.0	48.8	26.1	26.5
4.	201.75	H	21.0	21.6	15.4	20.7	3.4	6.0	15.7	15.6	46.0	48.8	27.9	27.9

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

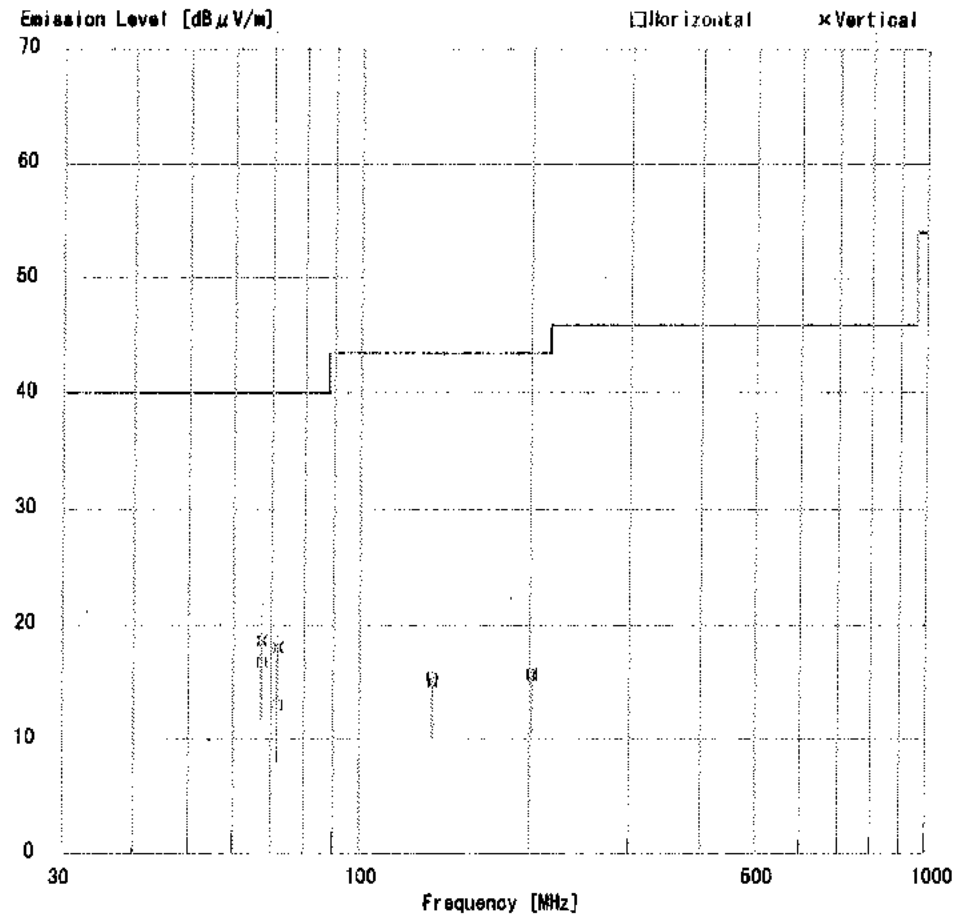
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz: Biconical, 300-1000MHz: Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23JE0025-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player and VCR
Model No. : SD-V391U
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : Test Channel #4
Date : 5/14/2003
Test Distance : 3 m
Temperature : 23 °C
Humidity : 61 %
Regulation : FCC Part15B CLASS B

Engineer : Taubasa Takayama



DATA OF ANTENNA TERMINAL TEST

UL Apex Co., Ltd.
Date : 2003/05/09 16:10:36

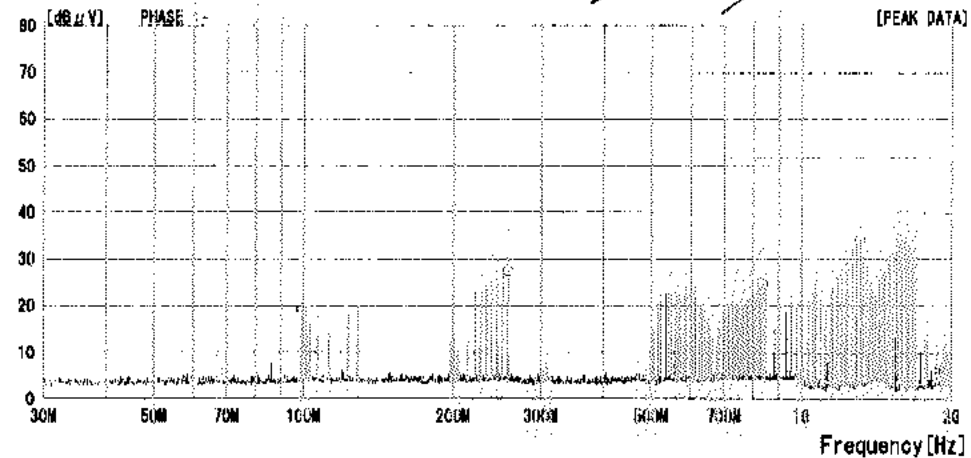
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL : SD-V391U
OPERATION MODE : TV Tuning mode

REPORT NO : 23JE0025-YW-1
DATE : May 9, 2003
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Taubasa Takayama

TEMP./HUMID. : 25°C/43%

LIMIT : FCC 15B ANTENNA TERMINAL

7.7



NO	FREQ [MHz]	READING (PK) [dBμV]	C.F [dB]	RESULT [dBμV]	LIMIT		MARGIN		PHASE
					QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	89.09000	38.0	-18.8	19.2	82.0	---	22.8	---	-
2	267.10889	46.9	-18.4	28.5	82.0	---	23.6	---	-
3	801.20263	48.7	-19.2	29.5	82.0	---	23.6	---	-
4	834.90689	48.0	-18.3	29.7	82.0	---	23.8	---	-
5	1310.09000	86.0	-28.8	57.2	82.0	---	23.9	---	-
6	1885.60000	62.8	-20.6	42.2	82.0	---	23.7	---	-

DATA OF ANTENNA TERMINAL TEST

UL Apex Co., Ltd.
Date : 2003/05/16 22:29:00

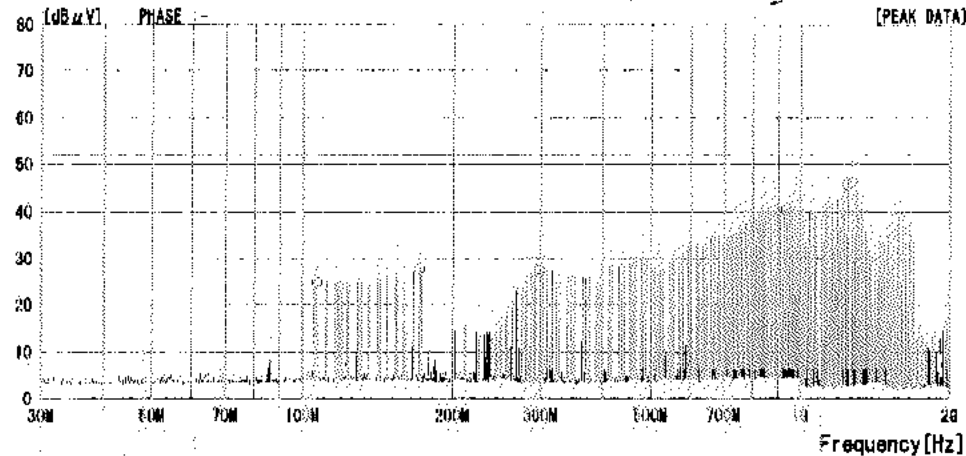
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL : SD-V391U
OPERATION MODE : CATV Tuning mode

REPORT NO : 23JE002E-YW-1
DATE : May 9, 2003
REGULATION : FCC Part 15 Subpart B
TEST ENGINEER : Taubasa Takayama

TEMP./HUMID. : 26°C/43%

LIMIT : FCC 15B ANTENNA TERMINAL

Taubasa Takayama



NO	FREQ	READING (PK)	G.F	RESULT	LIMIT	MARGIN	PHASE
	[MHz]	[dB μV]	[dB]	[dB μV]	OP [dB μV] AV [dB μV]	OP [dB] AV [dB]	
1	106.00000	44.7	-19.8	24.9	52.0	27.1	-
2	171.00000	42.5	-19.7	22.8	52.0	24.2	-
3	228.00000	42.6	-19.9	22.7	52.0	24.4	-
4	856.20000	58.0	-18.2	40.7	52.0	11.3	-
5	1245.00000	76.0	-29.9	46.7	52.0	6.3	-
6	1350.00000	70.7	-29.0	40.7	52.0	0.8	-
7	1378.00000	68.3	-29.5	38.8	52.0	13.2	-

RF output level

UL Apex Co., Ltd.
Yokawa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V391U
Power : AC 120 V / 60 Hz
Description : TV Reception + Rec (0dBmV)

Report Number : 23JE002E-YW-1
Regulation : FCC Part 15 Subpart B
Date : May 12, 2003
Temp./Humid. : 23°C/43%

Taubasa Takayama
Engineer

Video signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBμV]	[dB]	[dB]	[dBμV]	[dB]
3	61.25	84.4	20.3	64.0	69.5	5.5
4	67.25	83.4	20.3	63.0	69.5	6.5

Audio signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBμV]	[dB]	[dB]	[dBμV]	[dB]
3	56.25	70.7	20.3	50.3	56.5	6.2
4	65.75	69.7	20.3	49.3	56.5	7.2
	62.75	69.6	20.3	49.3	56.5	7.3
	71.75	68.3	20.3	47.9	56.5	8.6

RF output level

UL Apex Co., Ltd.
Yokawa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V391U
Power : AC 120 V / 60 Hz
Description : TV Reception + Rec (25dBuV)

Report Number : 23JE0025 YW-1
Regulation : FCC Part 15 Subpart B
Date : May 12, 2003
Temp/Humid. : 23°C/43%

Engineer : Tachibana Takayama

Video signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	61.25	86.3	20.4	65.9	69.5	3.6
4	67.25	84.6	20.4	64.2	69.5	5.3

Audio signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	80.8	20.4	60.4	56.5	3.9
	63.75	60.8	20.4	40.4	56.5	1.9
4	63.75	71.7	20.4	51.3	56.5	5.2
	73.75	68.6	20.4	48.2	56.5	8.3

RF output level

UL Apex Co., Ltd.
Yokawa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V391U
Power : AC 120 V / 60 Hz
Description : AV Input 1 + Rec (1Vp-p)

Report Number : 23JE0025-YW-1
Regulation : FCC Part 15 Subpart B
Date : May 12, 2003
Temp/Humid. : 23°C/43%

Engineer : Tachibana Takayama

Video signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	61.25	85.9	20.4	65.5	69.5	4.0
4	67.25	84.8	20.4	64.4	69.5	5.1

Audio signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	71.1	20.4	50.7	56.5	1.2
	63.75	69.8	20.4	49.4	56.5	1.1
4	63.75	69.6	20.4	49.2	56.5	1.3
	73.75	68.8	20.4	48.4	56.5	8.1

RF output level

UL Apex Co., Ltd.
Yokawa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V391U
Power : AC 120 V / 60 Hz
Description : AV Input 1 + Rec (5Vp-p)

Report Number : 23JE0025-YW-1
Regulation : FCC Part 15 Subpart B
Date : May 12, 2003
Temp./Humid. : 23°C/43%

Engineer : Tetsuya Takayama

Video signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	61.25	84.5	20.4	64.1	69.5	5.4
4	67.25	84.8	20.4	64.4	69.5	5.1

Audio signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	70.6	20.4	50.2	56.5	6.3
	65.75	69.6	20.4	49.2	56.5	7.3
4	62.75	69.8	20.4	49.4	56.5	7.1
	71.25	68.4	20.4	48.0	56.5	8.5

RF output level

UL Apex Co., Ltd.
Yokawa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V391U
Power : AC 120 V / 60 Hz
Description : AV Input 2 + Rec (1Vp-p)

Report Number : 23JE0025-YW-1
Regulation : FCC Part 15 Subpart B
Date : May 12, 2003
Temp./Humid. : 23°C/43%

Engineer : Tetsuya Takayama

Video signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	61.25	84.7	20.4	64.3	69.5	5.2
4	67.25	83.3	20.4	62.9	69.5	6.6

Audio signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	70.6	20.4	50.2	56.5	6.3
	65.75	69.7	20.4	49.3	56.5	7.2
4	62.75	69.6	20.4	49.2	56.5	7.3
	71.25	68.6	20.4	48.2	56.5	8.3

RF output level

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V39111
Power : AC 120 V / 60 Hz
Description : AV Input 2 + Rec (SVp-p)

UL Apex Co., Ltd.
Yokawa EMC Laboratory
Report Number : 23HE0025-YW-1
Regulation : FCC Part 15 Subpart B
Date : May 12, 2003
Temp./Humid. : 23°C/43%

Engineer : Tsutomu Takayama

Video signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	61.25	84.4	20.4	64.0	60.5	3.5
4	67.25	84.8	20.4	64.4	60.5	3.9

Audio signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	60.6	20.4	40.2	36.5	3.7
	60.75	69.6	20.4	49.2	36.5	12.7
4	62.75	69.7	20.4	49.3	36.5	12.8
	71.75	68.4	20.4	48.0	36.5	11.5

RF output level

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V39111
Power : AC 120 V / 60 Hz
Description : VCR Playback

UL Apex Co., Ltd.
Yokawa EMC Laboratory
Report Number : 23HE0025-YW-1
Regulation : FCC Part 15 Subpart B
Date : May 12, 2003
Temp./Humid. : 23°C/43%

Engineer : Tsutomu Takayama

Video signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	61.25	85.7	20.4	65.3	60.5	4.8
4	67.25	81.1	20.4	60.7	60.5	0.2

Audio signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	70.5	20.4	50.1	36.5	13.6
	60.75	69.5	20.4	49.1	36.5	12.6
4	62.75	69.6	20.4	49.2	36.5	12.7
	71.75	68.3	20.4	47.9	36.5	11.4

RF output level

UL Apex Co., Ltd.
Yokawa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V391U
Power : AC 120 V / 60 Hz
Description : DVD Play

Report Number : 23JE0025-YW-1
Regulation : FCC Part 15 Subpart B
Date : May 12, 2003
Temp/Humid. : 23°C/43%

Engineer : Taubasa Takayama

Video signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	67.25	83.9	20.4	63.5	69.3	6.0
4	67.25	84.7	20.4	64.3	69.3	5.2

Audio signal						
Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	70.3	20.4	49.9	56.3	6.6
	68.75	69.3	20.4	48.9	56.3	7.6
4	64.75	69.3	20.4	48.9	56.3	7.4
	71.75	68.3	20.4	47.9	56.3	8.6

DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKAWA EMC LABORATORY

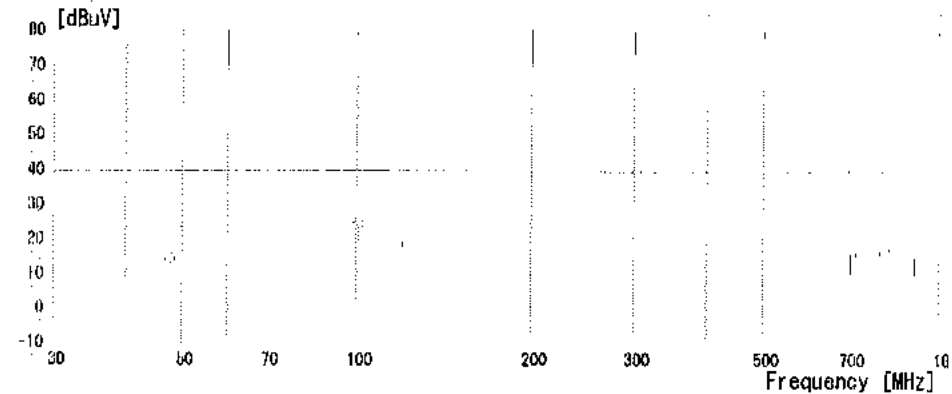
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : TV Reception + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 0dBuV
REMARKS 2 : 3CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer : Taubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV	C. FACTOR [dB]	RESULT QP [dBuV]	AV	LIMIT QP [dBuV]	AV	MARGIN QP [dB]	AV
1	47.760	84.6	----	-20.5	64.1	----	59.5	----	25.4	----
2	100.900	86.6	----	-20.8	65.8	----	59.5	----	16.1	----
3	22.300	80.6	----	-20.3	60.3	----	59.5	----	21.2	----
4	206.400	86.6	----	-21.2	65.4	----	59.5	----	23.8	----
5	807.100	87.5	----	-21.5	66.0	----	59.5	----	23.8	----
6	900.130	86.4	----	-21.5	64.9	----	59.5	----	24.0	----

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

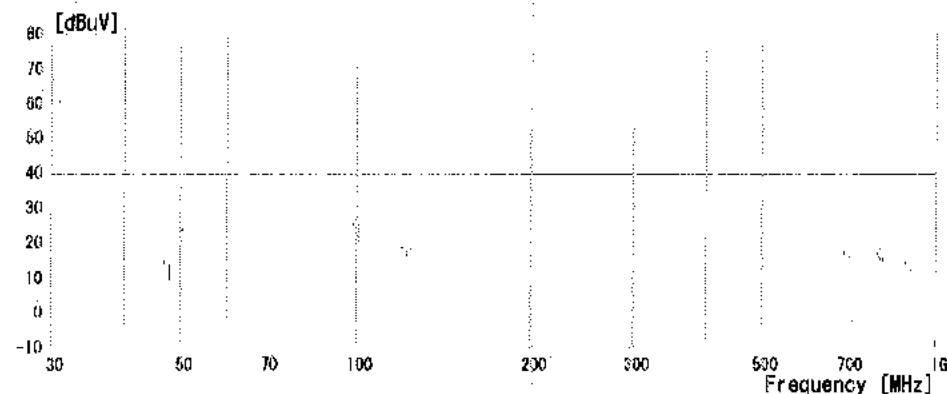
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : TV Reception + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 26dBuV
REMARKS 2 : 3CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT	MARGIN	
		QP	AV		QP	AV		QP	AV
		[dBuV]			[dBuV]		[dBuV]	[dB]	
1	47.760	34.0	----	-20.5	14.0	----	30.5	----	25.2
2	100.900	45.0	----	-20.6	26.2	----	30.5	----	14.3
3	122.300	39.3	----	-20.7	18.6	----	30.5	----	20.9
4	706.400	38.4	----	-21.2	17.2	----	30.5	----	22.3
5	807.100	37.9	----	-21.3	16.6	----	30.5	----	22.9
6	808.300	35.8	----	-21.5	14.3	----	30.5	----	25.2

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8(dBμV)
+ CABLE LOSS(dBμV) - AMPLIFIER GAIN(dBμV)



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

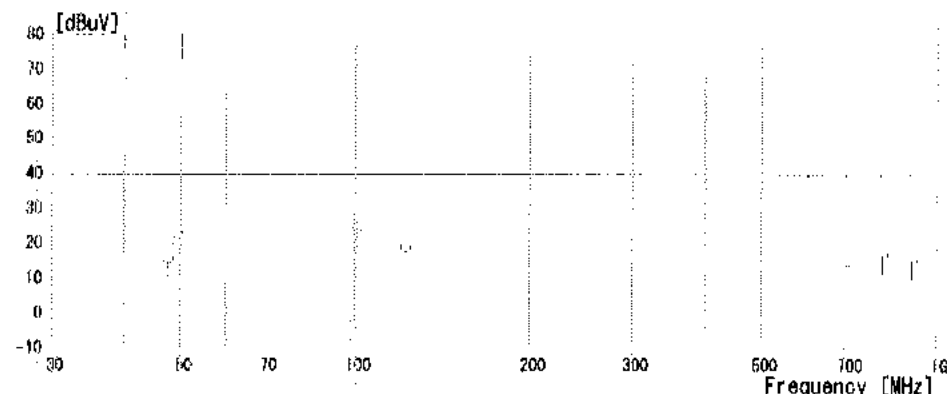
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : AV Input + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 1Vp-p
REMARKS 2 : 3CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT	MARGIN	
		QP	AV		QP	AV		QP	AV
		[dBuV]			[dBuV]		[dBuV]	[dB]	
1	47.760	34.0	----	-20.5	14.4	----	30.5	----	24.1
2	100.900	46.0	----	-20.6	24.4	----	30.5	----	15.1
3	122.300	39.6	----	-20.7	18.9	----	30.5	----	20.7
4	706.400	36.0	----	-21.2	14.8	----	30.5	----	24.7
5	807.100	37.9	----	-21.3	16.6	----	30.5	----	22.9
6	808.300	36.8	----	-21.5	15.3	----	30.5	----	24.2

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS 7.8(dBμV)
+ CABLE LOSS(dBμV) - AMPLIFIER GAIN(dBμV)



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

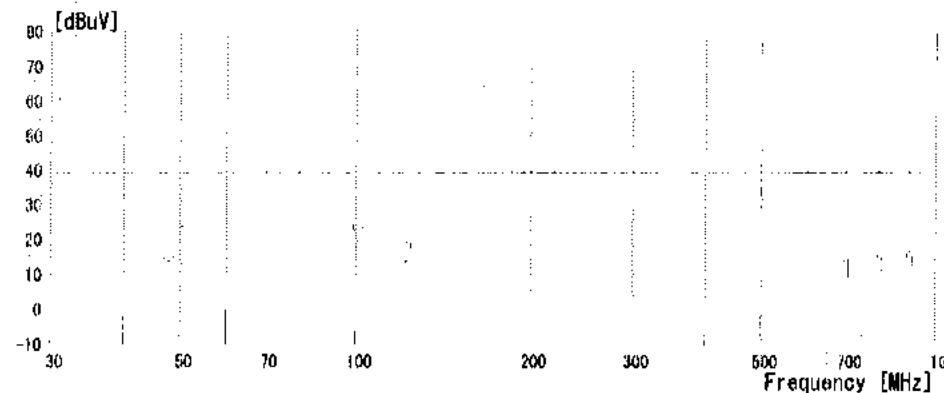
COMPANY: Orion Electric Co., Ltd.
EQUIPMENT: DVD Player and VCR
MODEL NAME: SD-V391U
OPERATION MODE: AV Input1 + Rec
PORT: RF OUTPUT TERMINAL
POWER: AC120V/60Hz
REMARKS 1: 5Vp-p
REMARKS 2: 3CH Output

REPORT NO.: 23JED025-YW-1
DATE: May 12, 2003
REGULATION: FCC PART15 SUBPART B

Engineer: Tsutsumi Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV [dB]	C. FACTOR [dB]	RESULT QP [dBuV]	AV [dB]	LIMIT QP [dBuV]	AV [dB]	MARGIN QP [dB]	AV [dB]
1	47.760	35.9	---	-20.5	15.4	---	39.5	---	24.1	---
2	100.000	44.5	---	-20.6	23.9	---	39.5	---	15.6	---
3	122.300	38.1	---	-20.7	17.4	---	39.5	---	21.1	---
4	700.400	36.0	---	-21.2	14.8	---	39.5	---	24.7	---
5	807.100	37.4	---	-21.3	16.1	---	39.5	---	23.4	---
6	908.100	37.2	---	-21.5	15.7	---	39.5	---	23.8	---

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

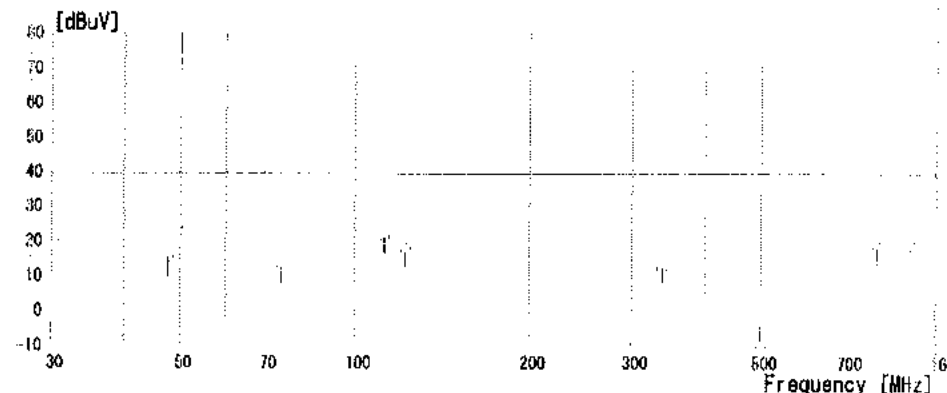
COMPANY: Orion Electric Co., Ltd.
EQUIPMENT: DVD Player and VCR
MODEL NAME: SD-V391U
OPERATION MODE: AV Input2 + Rec
PORT: RF OUTPUT TERMINAL
POWER: AC120V/60Hz
REMARKS 1: 1Vp-p
REMARKS 2: 3CH Output

REPORT NO.: 23JED025-YW-1
DATE: May 12, 2003
REGULATION: FCC PART15 SUBPART B

Engineer: Tsutsumi Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV [dB]	C. FACTOR [dB]	RESULT QP [dBuV]	AV [dB]	LIMIT QP [dBuV]	AV [dB]	MARGIN QP [dB]	AV [dB]
1	47.760	35.8	---	-20.5	15.3	---	39.5	---	24.2	---
2	74.700	33.4	---	-20.2	13.2	---	39.5	---	26.3	---
3	112.600	41.9	---	-20.6	21.3	---	39.5	---	18.8	---
4	122.300	38.5	---	-20.7	17.8	---	39.5	---	21.7	---
5	330.800	33.2	---	-20.8	12.4	---	39.5	---	27.1	---
6	700.860	38.0	---	-21.3	16.7	---	39.5	---	21.2	---
7	903.100	40.6	---	-21.5	19.1	---	39.5	---	20.4	---

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

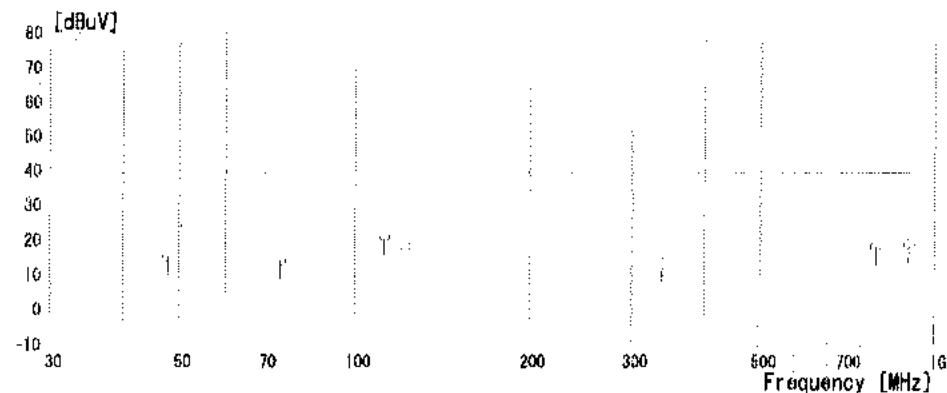
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : AV Input2 + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 5Vp-p
REMARKS 2 : 3CH Output

REPORT NO. : 23JEC025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubner Takayoshi

No.	FREQ [MHz]	READING QP [dBuV]	C. FACTOR AV [dB]	RESULT QP [dBuV]	LIMIT QP [dBuV]	MARGIN AV [dB]
1	47.760	35.0	-20.6	15.3	30.6	24.2
2	74.700	34.2	-20.2	14.0	30.6	25.5
3	100.900	41.6	-20.6	21.0	30.6	18.5
4	122.300	38.8	-20.7	18.1	30.6	21.4
5	395.800	32.9	-20.6	12.3	30.6	27.4
6	703.100	30.5	-21.3	10.2	30.6	21.3
7	903.100	40.2	-21.5	18.7	30.6	20.8

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

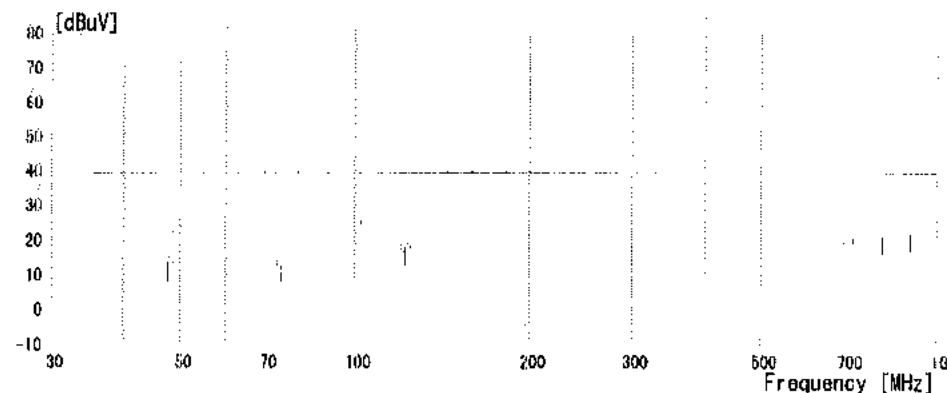
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : VCR Playback
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 :
REMARKS 2 : 3CH Output

REPORT NO. : 23JEC025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubner Takayoshi

No.	FREQ [MHz]	READING QP [dBuV]	C. FACTOR AV [dB]	RESULT QP [dBuV]	LIMIT QP [dBuV]	MARGIN AV [dB]
1	47.760	34.9	-20.6	13.7	30.6	25.6
2	74.700	33.7	-20.2	13.5	30.6	26.0
3	100.900	40.5	-20.6	24.9	30.6	14.6
4	122.300	39.0	-20.7	18.1	30.6	21.3
5	395.800	41.1	-21.2	19.9	30.6	10.6
6	703.100	42.6	-21.3	21.3	30.6	10.2
7	903.100	43.7	-21.5	22.1	30.6	17.4

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

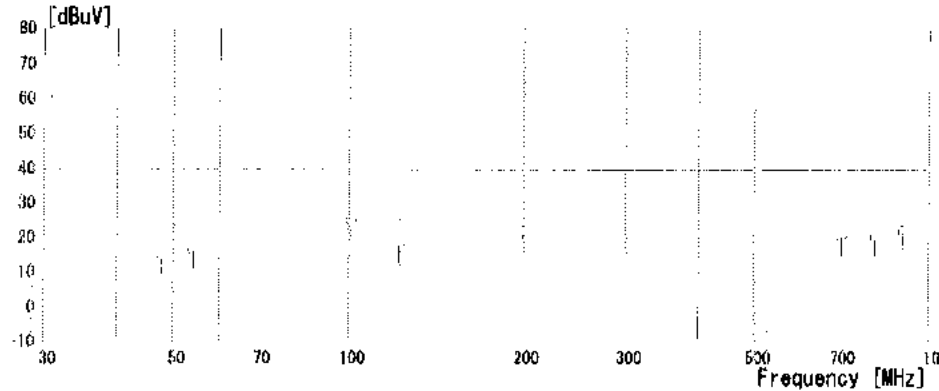
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : DVD Play
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 :
REMARKS 2 : 3CH Output

REPORT NO. : 23JEE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV	C FACTOR [dB]	RESULT QP [dBuV]	AV	LIMIT QP [dBuV]	AV	MARGIN QP [dB]	AV
1	47.760	36.2	----	-20.6	14.7	----	39.5	----	24.8	----
2	54.130	36.6	----	-20.4	16.2	----	39.5	----	23.3	----
3	100.900	46.4	----	-20.6	24.6	----	39.5	----	14.7	----
4	122.300	39.3	----	-20.7	17.6	----	39.5	----	21.9	----
5	706.400	41.4	----	-21.2	20.2	----	39.5	----	19.3	----
6	803.100	41.2	----	-21.3	19.8	----	39.5	----	19.6	----
7	603.100	43.3	----	-21.5	21.8	----	39.5	----	17.7	----

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

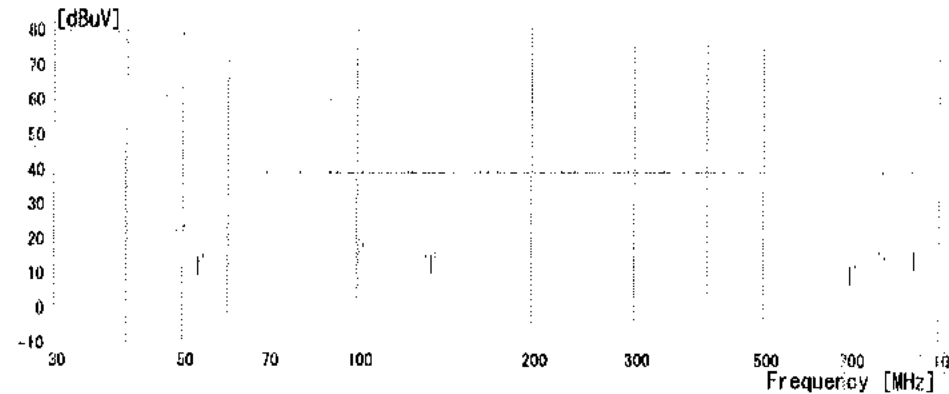
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : TV Reception + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 0dBmV
REMARKS 2 : 4CH Output

REPORT NO. : 23JEE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV	C FACTOR [dB]	RESULT QP [dBuV]	AV	LIMIT QP [dBuV]	AV	MARGIN QP [dB]	AV
1	53.400	26.3	----	-20.4	14.9	----	39.5	----	24.6	----
2	100.740	38.9	----	-20.6	18.3	----	39.5	----	21.2	----
3	634.470	36.2	----	-20.6	15.6	----	39.5	----	23.8	----
4	306.140	33.7	----	-21.3	12.5	----	39.5	----	27.0	----
5	806.800	37.6	----	-21.3	16.3	----	39.5	----	23.2	----
6	506.600	38.3	----	-21.5	16.8	----	39.5	----	22.6	----

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHA ENG. LABORATORY

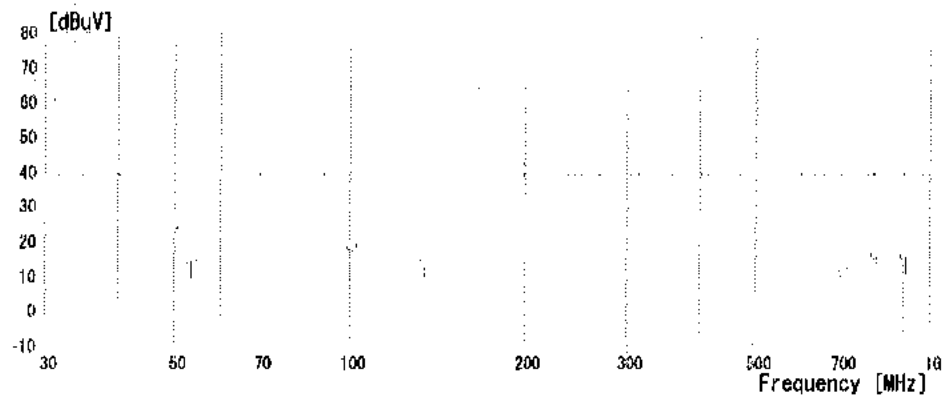
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V381U
OPERATION MODE : TV Reception + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 25dBuV
REMARKS 2 : 4CH Output

REPORT NO. : 23JEC025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Isubana Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV [dB]	C. FACTOR [dB]	RESULT QP [dBuV]	AV [dB]	LIMIT QP [dBuV]	AV [dB]	MARGIN QP [dB]	AV [dB]
1	53.400	35.1	----	-20.4	14.7	----	39.5	----	24.8	----
2	100.740	39.3	----	-20.6	18.7	----	39.5	----	20.8	----
3	134.470	36.1	----	-20.6	15.5	----	39.5	----	24.0	----
4	206.140	34.1	----	-21.2	12.9	----	39.5	----	26.6	----
5	806.860	37.7	----	-21.3	16.4	----	39.5	----	23.1	----
6	906.560	37.6	----	-21.5	16.1	----	39.5	----	23.4	----

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHA ENG. LABORATORY

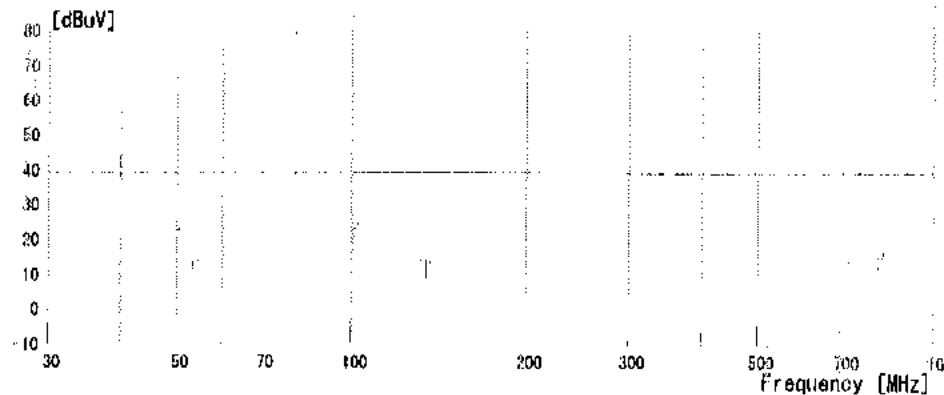
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V381U
OPERATION MODE : AV Input + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 1Vp-p
REMARKS 2 : 4CH Output

REPORT NO. : 23JEC025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Isubana Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV [dB]	C. FACTOR [dB]	RESULT QP [dBuV]	AV [dB]	LIMIT QP [dBuV]	AV [dB]	MARGIN QP [dB]	AV [dB]
1	53.400	34.7	----	-20.4	14.3	----	39.5	----	25.2	----
2	100.740	45.1	----	-20.6	24.5	----	39.5	----	15.0	----
3	134.470	36.2	----	-20.6	15.6	----	39.5	----	24.0	----
4	206.140	36.2	----	-21.2	15.0	----	39.5	----	24.5	----
5	806.860	37.8	----	-21.3	16.5	----	39.5	----	23.0	----
6	906.560	37.1	----	-21.5	15.6	----	39.5	----	23.9	----

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

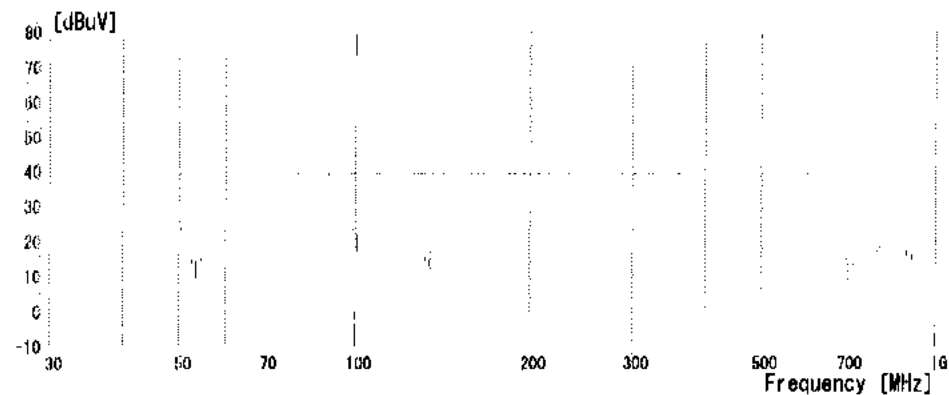
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V3910
OPERATION MODE : AV Input1 + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 5Vp-p
REMARKS 2 : 4CH Output

REPORT NO. : 23JE0025 YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubasa Takayama

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	53.400	35.4	----	-20.4	15.0	----	30.5	----	24.5	----
2	100.740	43.2	----	-20.6	22.6	----	30.5	----	16.0	----
3	134.470	36.7	----	-20.6	16.1	----	30.5	----	24.4	----
4	705.140	34.8	----	-21.2	13.6	----	30.5	----	25.0	----
5	805.880	30.3	----	-21.3	17.0	----	30.5	----	22.5	----
6	905.580	38.2	----	-21.5	16.7	----	30.5	----	22.8	----

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



96

DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

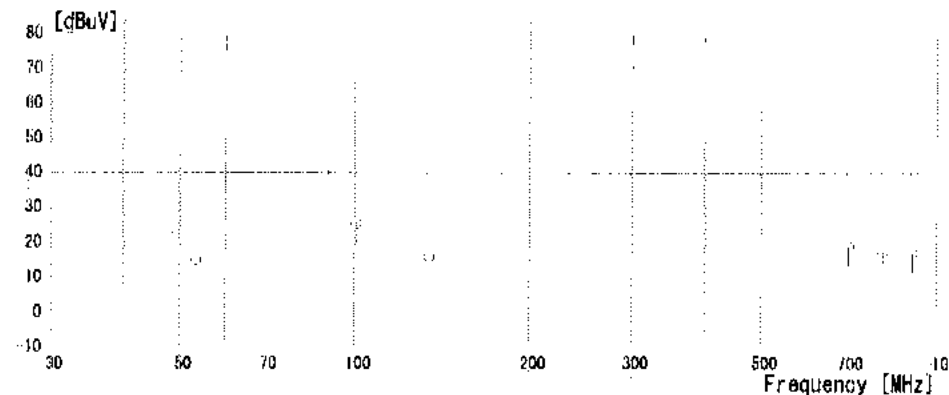
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V3910
OPERATION MODE : AV Input2 + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 1Vp-p
REMARKS 2 : 4CH Output

REPORT NO. : 23JE0026 YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubasa Takayama

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	53.400	30.6	----	-20.4	14.6	----	30.5	----	24.9	----
2	100.740	45.7	----	-20.6	25.1	----	30.5	----	14.4	----
3	134.470	36.2	----	-20.6	15.6	----	30.5	----	23.9	----
4	705.140	30.6	----	-21.2	18.6	----	30.5	----	20.9	----
5	805.880	30.3	----	-21.3	17.0	----	30.5	----	22.5	----
6	905.580	38.2	----	-21.5	16.7	----	30.5	----	22.8	----

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



97

DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOMA ENG. LABORATORY

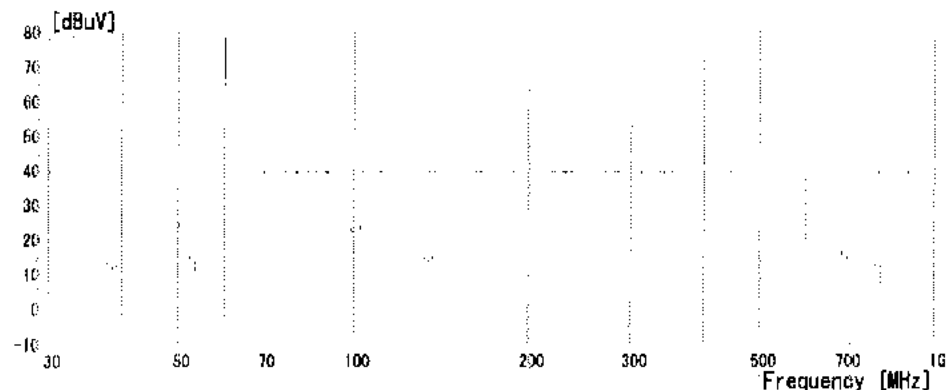
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : AV Input2 + Rec
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 5Vp-p
REMARKS 2 : 4CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]	[dBuV]		[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]
1	38.400	33.0	---	-20.7	12.2	---	30.5	---	26.3	---
2	89.400	35.2	---	-20.4	14.8	---	30.5	---	24.7	---
3	100.740	44.0	---	-20.6	23.4	---	30.5	---	18.1	---
4	139.470	35.0	---	-20.6	14.4	---	30.5	---	24.6	---
5	706.140	37.2	---	-21.2	16.0	---	30.5	---	23.6	---
6	805.860	38.0	---	-21.3	16.7	---	30.5	---	26.9	---

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOMA ENG. LABORATORY

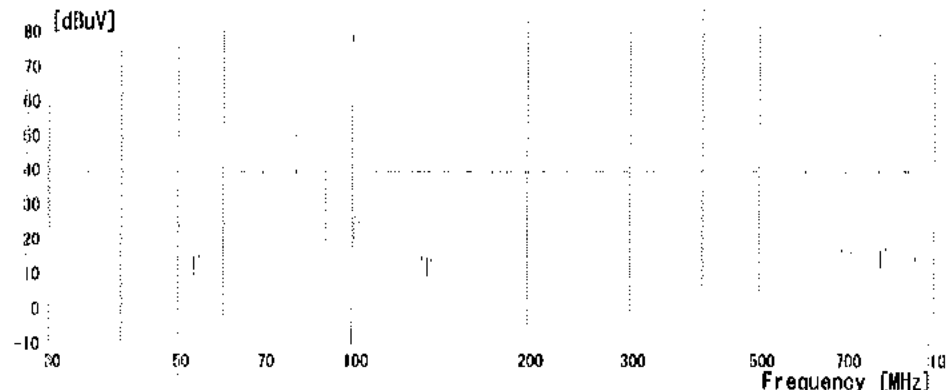
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : VCR Playback
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : -
REMARKS 2 : 4CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]	[dBuV]		[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]
1	38.400	36.4	---	-20.4	16.0	---	30.5	---	24.6	---
2	100.740	35.5	---	-20.6	14.9	---	30.5	---	24.6	---
3	139.470	38.1	---	-20.6	17.5	---	30.5	---	20.6	---
4	706.140	38.1	---	-21.2	16.9	---	30.5	---	22.6	---
5	805.860	38.5	---	-21.3	17.2	---	30.5	---	22.9	---
6	906.590	35.9	---	-21.5	14.4	---	30.5	---	26.0	---

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



DATA OF RF SPURIOUS

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

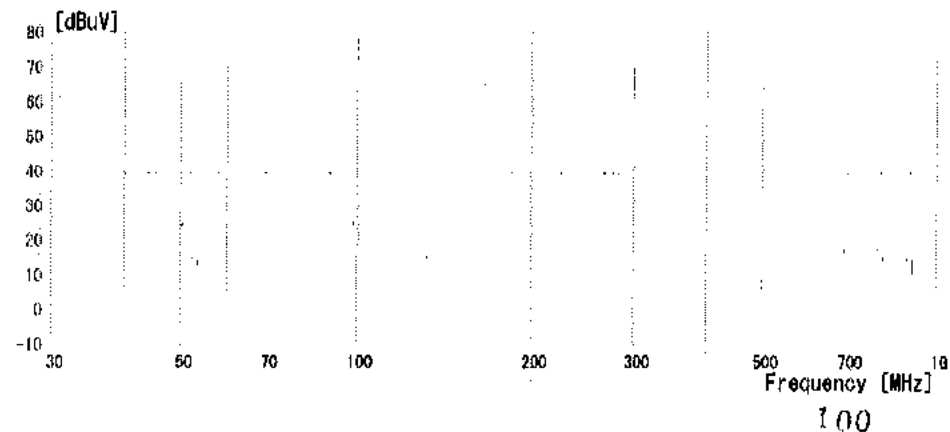
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : DVD Play
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 :
REMARKS 2 : 4CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBμV]	C. FACTOR AV [dB]	RESULT QP [dBμV]	LIMIT QP [dBμV]	MARGIN AV [dB]
1	63.400	35.3	-20.4	14.9	30.5	24.6
2	160.740	45.6	-20.6	25.0	30.5	14.6
3	184.470	36.2	-20.8	15.6	30.5	23.9
4	706.140	38.3	-21.2	17.1	30.5	23.4
5	806.860	38.7	-21.3	17.4	30.5	22.1
6	906.590	36.3	-21.5	14.9	30.5	24.6

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



ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

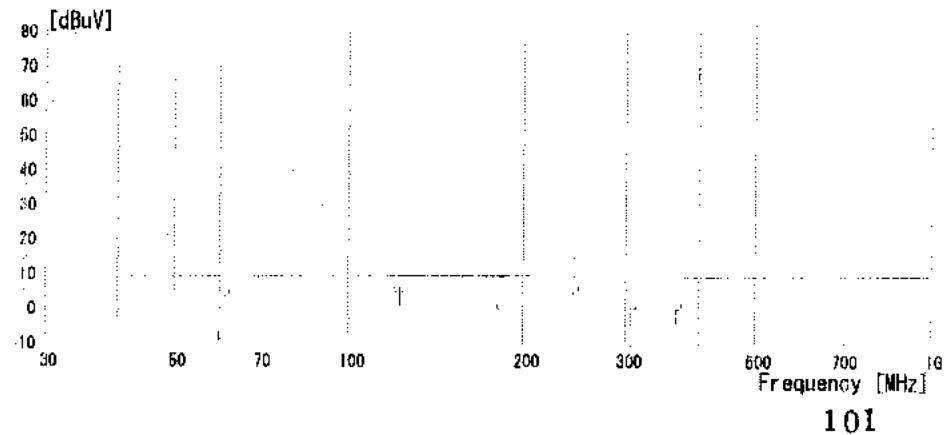
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : AV Input1 + Rec
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 15μA
REMARKS 2 : 3CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBμV]	C. FACTOR AV [dB]	RESULT QP [dBμV]	LIMIT QP [dBμV]	MARGIN AV [dB]
1	61.250	25.4	-20.2	5.2	9.5	4.3
2	122.500	28.9	-20.7	8.2	9.6	3.3
3	183.750	21.6	-20.8	1.1	9.6	8.4
4	245.000	26.8	-20.7	6.1	9.6	3.4
5	306.250	21.6	-20.7	0.3	9.6	9.2
6	367.500	22.2	-21.0	1.1	9.6	8.4

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



ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

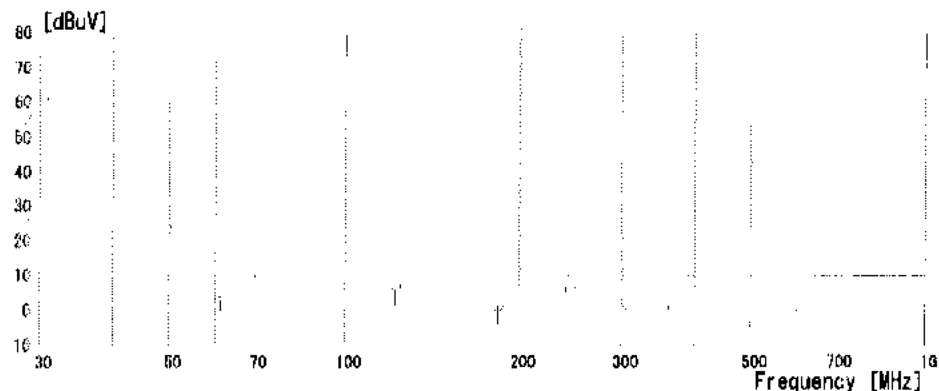
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V3810
OPERATION MODE : AV Input1 + Rec
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 5Vp-p
REMARKS 2 : 3CH Output

REPORT NO. : 23JEC025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubasa Takayama

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	61.250	25.1	----	-20.2	4.9	----	9.5	----	4.7	----
2	122.500	27.0	----	-20.7	6.3	----	9.5	----	2.7	----
3	163.750	21.0	----	-20.8	1.1	----	9.5	----	6.4	----
4	245.000	28.5	----	-20.7	8.8	----	9.5	----	3.7	----
5	306.250	22.3	----	-20.7	1.6	----	9.5	----	7.9	----
6	367.500	22.2	----	-21.0	1.2	----	9.5	----	8.3	----

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



ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

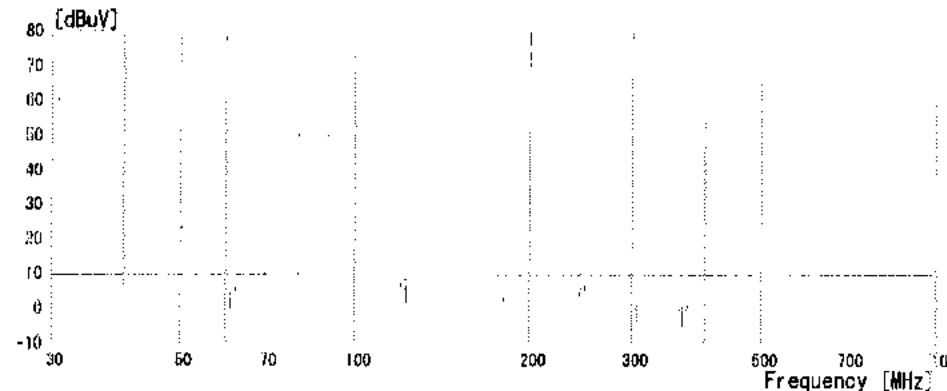
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V3810
OPERATION MODE : AV Input2 + Rec
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 1Vp-p
REMARKS 2 : 3CH Output

REPORT NO. : 23JEC025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubasa Takayama

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	61.250	26.4	----	-20.8	5.6	----	9.5	----	4.3	----
2	122.500	27.2	----	-20.8	6.4	----	9.5	----	3.0	----
3	163.750	23.3	----	-20.8	2.5	----	9.5	----	7.0	----
4	245.000	26.4	----	-20.7	5.7	----	9.5	----	3.8	----
5	306.250	22.0	----	-20.7	1.3	----	9.5	----	8.2	----
6	367.500	21.5	----	-21.0	0.5	----	9.5	----	9.0	----

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



ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

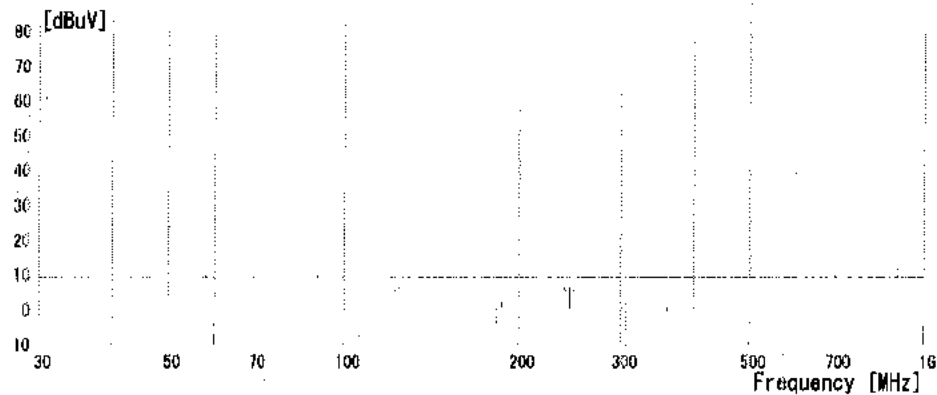
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : AV Input2 + Rec
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 5Vp p
REMARKS 2 : 3CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	C. FACTOR [dB]	RESULT QP [dBuV]	LIMIT QP [dBuV]	MARGIN QP [dB]
1	61.250	24.4	-20.2	4.2	9.5	5.3
2	122.500	27.4	-20.7	6.7	9.5	2.8
3	183.750	22.3	-20.8	1.5	9.5	8.0
4	245.000	26.9	-20.7	6.2	9.5	3.3
5	306.250	20.8	-20.7	0.1	9.5	9.4
6	367.500	21.5	-21.0	0.5	9.5	9.0

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



104

ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

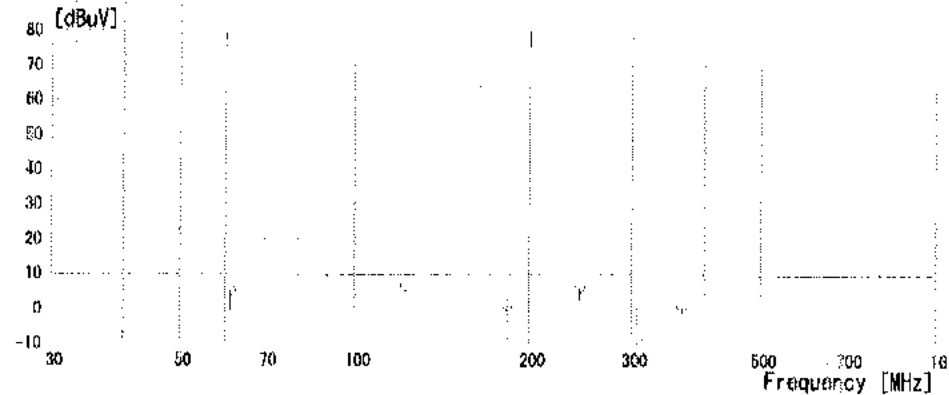
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : VCR PlayBack
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 :
REMARKS 2 : 3CH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	C. FACTOR [dB]	RESULT QP [dBuV]	LIMIT QP [dBuV]	MARGIN QP [dB]
1	61.250	25.2	-20.2	4.9	9.5	4.6
2	122.500	27.2	-20.7	6.5	9.5	3.0
3	183.750	21.6	-20.8	0.8	9.5	8.6
4	245.000	26.8	-20.7	6.1	9.5	3.4
5	306.250	21.2	-20.7	0.5	9.5	9.0
6	367.500	21.8	-21.0	0.8	9.5	8.7

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



105

ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOMA EMC LABORATORY

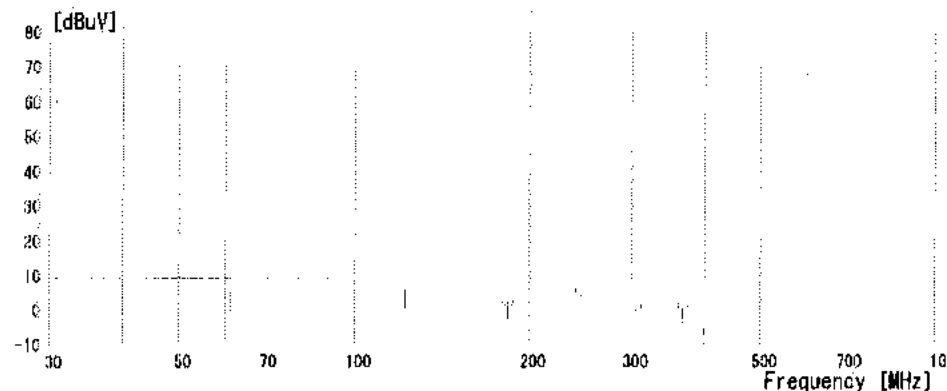
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V3910
OPERATION MODE : DVD Play
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 :
REMARKS 2 : 3CH Output

REPORT NO. : 23JE0026-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	C. FACTOR [dB]	RESULT QP [dBuV]	LIMIT QP [dBuV]	MARGIN QP [dB]
1	60.250	26.6	-20.2	6.4	9.5	4.1
2	122.500	23.0	-20.7	2.3	9.5	7.2
3	183.750	23.3	-20.0	3.3	9.5	6.2
4	245.000	26.3	-20.7	5.6	9.5	3.9
5	306.250	21.9	-20.7	1.2	9.5	8.3
6	367.500	22.5	-21.0	1.5	9.5	8.0

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



106

ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOMA EMC LABORATORY

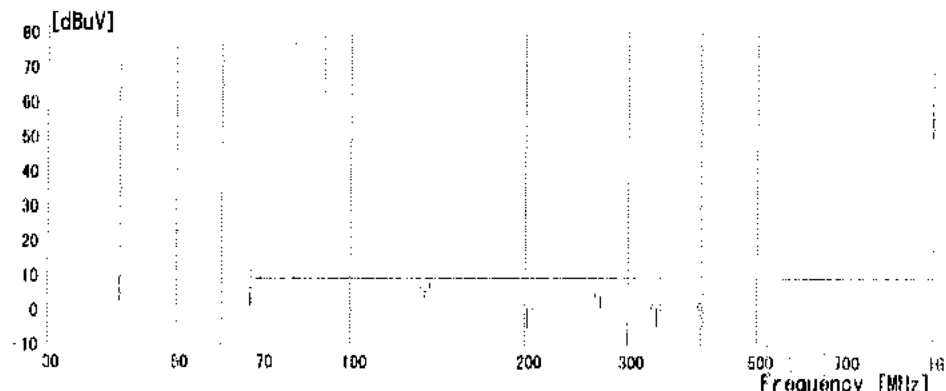
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V3910
OPERATION MODE : AV Input1 + Rec
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 1Sp-p
REMARKS 2 : 4CH Output

REPORT NO. : 23JE0026-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	C. FACTOR [dB]	RESULT QP [dBuV]	LIMIT QP [dBuV]	MARGIN QP [dB]
1	60.250	27.0	-20.0	7.0	9.5	2.5
2	122.500	27.6	-20.6	7.0	9.5	2.5
3	183.750	21.3	-20.8	0.5	9.5	8.9
4	245.000	25.4	-20.2	5.2	9.5	4.3
5	306.250	21.9	-20.0	1.9	9.5	7.6
6	367.500	22.4	-20.0	2.4	9.5	7.1

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



107

ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA ENG. LABORATORY

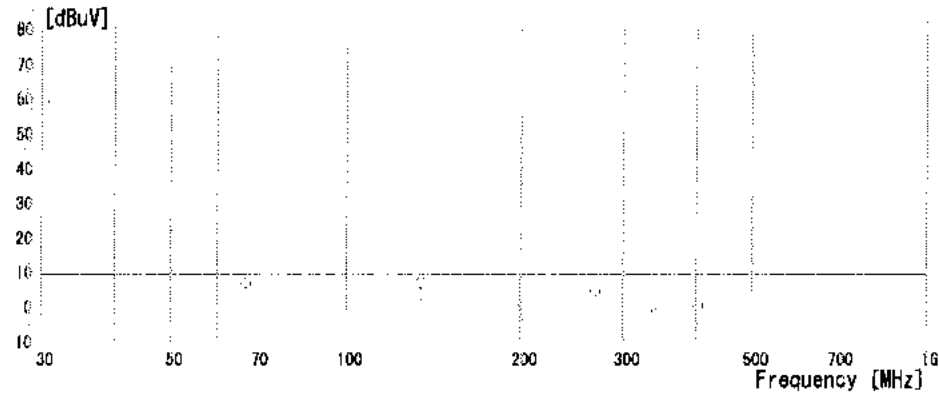
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V301U
OPERATION MODE : AV Input1 + Rec
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 5Vp-p
REMARKS 2 : 4CH Output

REPORT NO. : 23JEC0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	C. FACTOR AV [dB]	RESULT QP [dBuV]	LIMIT QP [dBuV]	MARGIN QP [dB]
1	67.250	26.0	-20.0	6.0	9.5	2.6
2	134.500	27.0	-20.0	7.0	9.5	2.5
3	201.750	21.5	-20.0	1.5	9.5	8.0
4	269.000	25.5	-20.0	5.5	9.5	4.0
5	336.250	21.1	-20.0	1.1	9.5	8.4
6	403.500	21.3	-20.0	1.3	9.5	8.2

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



ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA ENG. LABORATORY

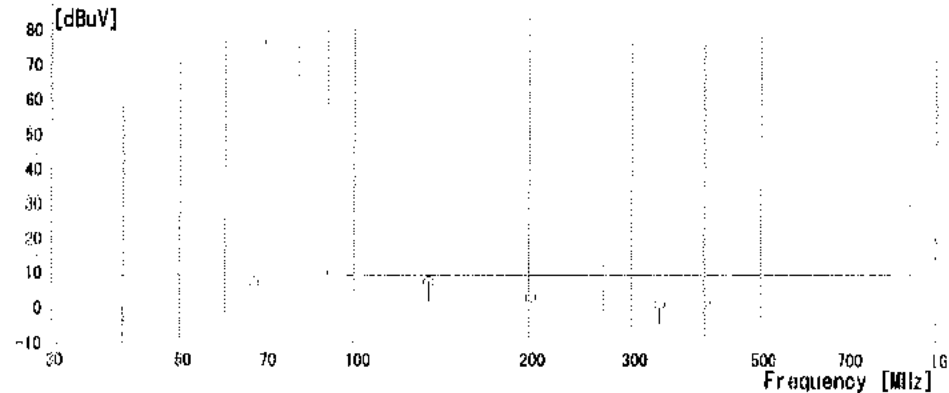
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V301U
OPERATION MODE : AV Input2 + Rec
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 1Vp-p
REMARKS 2 : 4CH Output

REPORT NO. : 23JEC0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	C. FACTOR AV [dB]	RESULT QP [dBuV]	LIMIT QP [dBuV]	MARGIN QP [dB]
1	67.250	27.1	-20.0	7.1	9.5	2.4
2	134.500	27.0	-20.0	7.0	9.5	2.5
3	201.750	23.0	-20.0	3.0	9.5	6.5
4	269.000	26.0	-20.0	6.0	9.5	3.5
5	336.250	21.0	-20.0	1.0	9.5	8.5
6	403.500	22.5	-20.0	2.5	9.5	7.0

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



ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

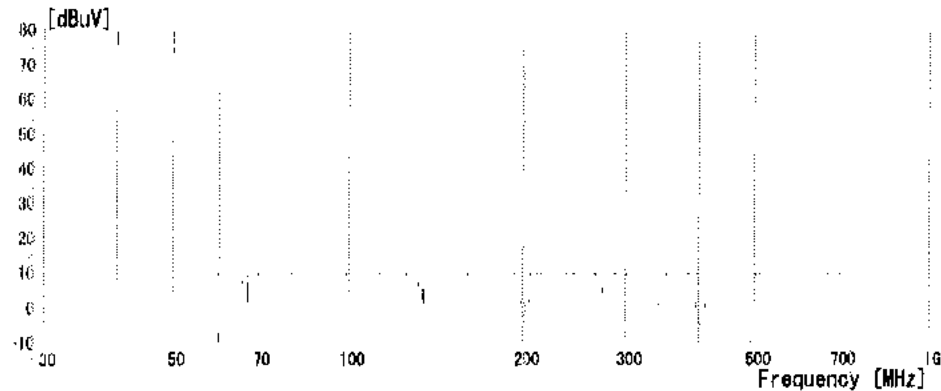
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : AV Input2 + Rec
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 : 5Vp-p
REMARKS 2 : 4CH Output

REPORT NO. : 23JE0026-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV [dB]	C. FACTOR [dB]	RESULT QP [dBuV]	AV [dB]	LIMIT QP [dBuV]	AV [dB]	MARGIN QP [dB]	AV [dB]
1	67.250	27.3	----	-20.0	7.3	----	9.5	----	2.2	----
2	134.500	27.1	----	-20.0	6.9	----	9.5	----	3.0	----
3	201.750	22.8	----	-20.6	2.2	----	9.5	----	7.3	----
4	269.000	35.6	----	-20.7	4.9	----	9.5	----	4.8	----
5	336.250	21.9	----	-20.8	1.1	----	9.5	----	8.4	----
6	403.500	21.5	----	-20.9	0.6	----	9.5	----	8.9	----

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



ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHAMA EMC LABORATORY

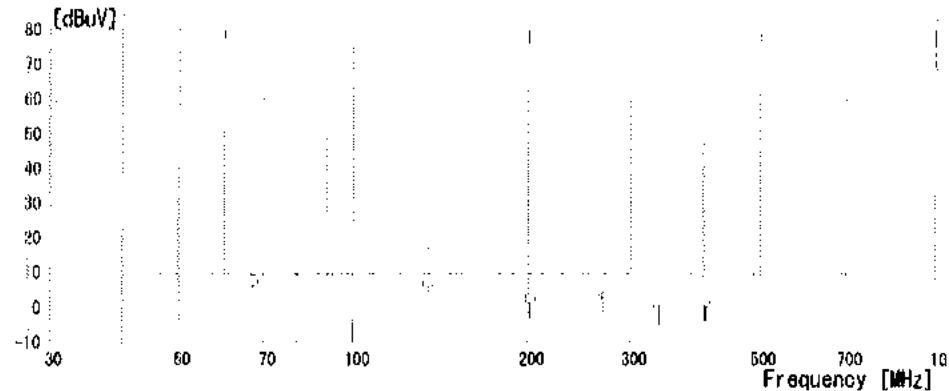
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : DVD Play
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 :
REMARKS 2 : 4CH Output

REPORT NO. : 23JE0026-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Tsubasa Takayama

No.	FREQ [MHz]	READING QP [dBuV]	AV [dB]	C. FACTOR [dB]	RESULT QP [dBuV]	AV [dB]	LIMIT QP [dBuV]	AV [dB]	MARGIN QP [dB]	AV [dB]
1	67.250	27.4	----	-20.0	7.4	----	9.5	----	2.1	----
2	134.500	27.5	----	-20.6	6.9	----	9.5	----	2.6	----
3	201.750	23.6	----	-20.6	2.4	----	9.5	----	7.1	----
4	269.000	25.2	----	-20.7	4.5	----	9.5	----	6.0	----
5	336.250	21.6	----	-20.8	0.8	----	9.5	----	8.7	----
6	403.500	22.2	----	-20.9	1.3	----	9.5	----	8.0	----

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



ANTENNA TRANSFER SWITCH

UL Apex Co., Ltd.
YOKOHA EMC LABORATORY

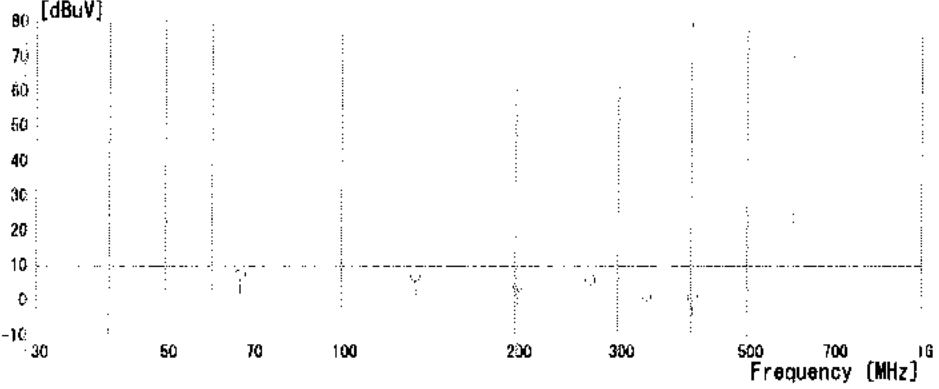
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD Player and VCR
MODEL NAME : SD-V391U
OPERATION MODE : VCR Playback
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS 1 :
REMARKS 2 : ACH Output

REPORT NO. : 23JE0025-YW-1
DATE : May 12, 2003
REGULATION : FCC PART15 SUBPART B

Engineer: Teubasa Takayama

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT	MARGIN	
		QP	AV		QP	AV		QP	AV
		[dBuV]			[dBuV]		[dBuV]	[dB]	
1	67.250	27.2	---	-20.0	7.2	---	0.5	---	2.3
2	134.500	27.2	---	-20.0	6.6	---	0.5	---	2.0
3	201.750	24.1	---	-20.0	3.6	---	0.5	---	0.0
4	269.000	26.3	---	-20.7	5.6	---	0.5	---	0.0
5	336.250	21.8	---	-20.0	1.8	---	0.5	---	0.6
6	403.500	21.8	---	-20.9	0.9	---	0.5	---	0.6

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



Picture sensitivity test

UL Apex Co., Ltd.
Yokohama EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V391U
Power : AC 120 V / 60 Hz
Description : TV RECEPTION

Report Number : 23JE0025-YW-1
Regulation : FCC Part 15B Subpart B
Date : May 9, 2003
Temp/Humid. : 25°C / 50%

Engineer: Teubasa Takayama

Ch.	Frequency	Sensitivity		Ch.	Frequency	Sensitivity	
[VHF]	[MHz]	[dBuV]	[uV]	[UHF]	[MHz]	[dBuV]	[uV]
2	55.25	20.0	10.0	38	491.25	23.6	15.1
3	61.25	19.0	8.9	39	507.25	23.4	15.1
4	67.25	18.0	8.4	40	523.25	24.2	15.0
5	73.25	17.0	7.8	41	539.25	24.3	16.0
6	79.25	16.0	7.3	42	555.25	25.2	16.2
7	85.25	15.0	6.8	43	571.25	25.3	15.0
8	91.25	14.0	6.3	44	587.25	24.5	16.5
9	97.25	13.0	5.8	45	603.25	24.3	15.0
10	103.25	12.0	5.3	46	619.25	24.2	15.5
11	109.25	11.0	4.8	47	635.25	23.7	15.5
12	115.25	10.0	4.3	48	651.25	23.0	13.0
13	121.25	9.0	3.8				
Average VHF			11.0	Average UHF			15.2
Average UHF/VHF - 20log UHF[V]/VHF[V] =				2.6	dB		
[Limit: 6.0 dB]							

Noise figure test

UL Apex Co., Ltd.
Yokohama EMC Laboratory

Report Number : 23JE0025-YW-1
Regulation : FCC Part 15 Subpart B
Date : May 9, 2003
Temp/Humid. : 25°C / 50%

Company : Orion Electric Co., Ltd.
Equipment : DVD Player and VCR
Model number : SD-V391U
Power : AC 120 V / 60 Hz
Description : TV RECEPTION

Engineer : Toshiaki Takayama

Cs	Frequency (MHz)	Meter reading (dB)	Correction factor (dB)	Noise figure (dB)	Limits (dB)	Margin (dB)
TV VHF Fundamental						
2	53.25	4.6	0.2	4.4	14.0	9.6
3	61.25	3.6	0.2	3.4	14.0	10.6
4	67.25	3.4	0.2	3.2	14.0	10.8
5	77.25	3.5	0.2	3.3	14.0	10.7
6	83.25	5.7	0.2	5.5	14.0	8.5
7	125.25	5.1	0.2	4.9	14.0	9.1
8	181.25	3.2	0.2	3.0	14.0	11.0
9	187.25	5.1	0.2	4.9	14.0	9.1
10	193.25	4.5	0.2	4.3	14.0	9.7
11	199.25	6.4	0.2	6.2	14.0	7.8
12	205.25	4.6	0.2	4.4	14.0	9.6
13	211.25	4.5	0.2	4.3	14.0	9.7
TV UHF Fundamental						
14	271.25	3.8	0.3	3.5	14.0	10.5
15	297.25	6.0	0.3	5.7	14.0	8.3
16	341.25	5.0	0.3	4.7	14.0	9.3
17	399.25	5.0	0.3	4.7	14.0	9.3
18	413.25	5.7	0.3	5.4	14.0	8.6
19	451.25	5.9	0.3	5.6	14.0	8.4
20	499.25	3.9	0.3	3.6	14.0	10.4
21	513.25	4.6	0.3	4.3	14.0	9.7
22	559.25	4.4	0.4	4.0	14.0	10.0
23	601.25	4.7	0.4	4.3	14.0	9.7
Mid-band						
14	121.25	4.3	0.2	4.1	14.0	9.9
15	137.25	3.4	0.2	3.2	14.0	10.8
16	141.25	6.4	0.2	6.2	14.0	7.8
17	157.25	6.4	0.2	6.2	14.0	7.8
18	169.25	5.8	0.2	5.6	14.0	8.4
Super-band						
24	217.25	4.8	0.2	4.6	14.0	9.4
25	233.25	4.5	0.2	4.3	14.0	9.7
26	233.25	4.6	0.2	4.4	14.0	9.6
27	271.25	4.6	0.2	4.4	14.0	9.6
28	295.25	4.7	0.2	4.5	14.0	9.5

Test Report No. : 23JE0025-YW-1

APPENDIX 3

Test Instruments

Item	Model	Manufacturer	Serial No.	Calibration No.	Calibration Date
1	4000	Agilent	1111	1111	2002/03/20
2	4000	Agilent	1111	1111	2002/03/20
3	4000	Agilent	1111	1111	2002/03/20
4	4000	Agilent	1111	1111	2002/03/20
5	4000	Agilent	1111	1111	2002/03/20
6	4000	Agilent	1111	1111	2002/03/20
7	4000	Agilent	1111	1111	2002/03/20
8	4000	Agilent	1111	1111	2002/03/20
9	4000	Agilent	1111	1111	2002/03/20
10	4000	Agilent	1111	1111	2002/03/20
11	4000	Agilent	1111	1111	2002/03/20
12	4000	Agilent	1111	1111	2002/03/20
13	4000	Agilent	1111	1111	2002/03/20
14	4000	Agilent	1111	1111	2002/03/20
15	4000	Agilent	1111	1111	2002/03/20
16	4000	Agilent	1111	1111	2002/03/20
17	4000	Agilent	1111	1111	2002/03/20
18	4000	Agilent	1111	1111	2002/03/20
19	4000	Agilent	1111	1111	2002/03/20
20	4000	Agilent	1111	1111	2002/03/20
21	4000	Agilent	1111	1111	2002/03/20
22	4000	Agilent	1111	1111	2002/03/20
23	4000	Agilent	1111	1111	2002/03/20
24	4000	Agilent	1111	1111	2002/03/20
25	4000	Agilent	1111	1111	2002/03/20
26	4000	Agilent	1111	1111	2002/03/20
27	4000	Agilent	1111	1111	2002/03/20
28	4000	Agilent	1111	1111	2002/03/20
29	4000	Agilent	1111	1111	2002/03/20
30	4000	Agilent	1111	1111	2002/03/20
31	4000	Agilent	1111	1111	2002/03/20
32	4000	Agilent	1111	1111	2002/03/20
33	4000	Agilent	1111	1111	2002/03/20
34	4000	Agilent	1111	1111	2002/03/20
35	4000	Agilent	1111	1111	2002/03/20
36	4000	Agilent	1111	1111	2002/03/20
37	4000	Agilent	1111	1111	2002/03/20
38	4000	Agilent	1111	1111	2002/03/20
39	4000	Agilent	1111	1111	2002/03/20
40	4000	Agilent	1111	1111	2002/03/20
41	4000	Agilent	1111	1111	2002/03/20
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43	4000	Agilent	1111	1111	2002/03/20
44	4000	Agilent	1111	1111	2002/03/20
45	4000	Agilent	1111	1111	2002/03/20
46	4000	Agilent	1111	1111	2002/03/20
47	4000	Agilent	1111	1111	2002/03/20
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50	4000	Agilent	1111	1111	2002/03/20
51	4000	Agilent	1111	1111	2002/03/20
52	4000	Agilent	1111	1111	2002/03/20
53	4000	Agilent	1111	1111	2002/03/20
54	4000	Agilent	1111	1111	2002/03/20
55	4000	Agilent	1111	1111	2002/03/20
56	4000	Agilent	1111	1111	2002/03/20
57	4000	Agilent	1111	1111	2002/03/20
58	4000	Agilent	1111	1111	2002/03/20
59	4000	Agilent	1111	1111	2002/03/20
60	4000	Agilent	1111	1111	2002/03/20
61	4000	Agilent	1111	1111	2002/03/20
62	4000	Agilent	1111	1111	2002/03/20
63	4000	Agilent	1111	1111	2002/03/20
64	4000	Agilent	1111	1111	2002/03/20
65	4000	Agilent	1111	1111	2002/03/20
66	4000	Agilent	1111	1111	2002/03/20
67	4000	Agilent	1111	1111	2002/03/20
68	4000	Agilent	1111	1111	2002/03/20
69	4000	Agilent	1111	1111	2002/03/20
70	4000	Agilent	1111	1111	2002/03/20
71	4000	Agilent	1111	1111	2002/03/20
72	4000	Agilent	1111	1111	2002/03/20
73	4000	Agilent	1111	1111	2002/03/20
74	4000	Agilent	1111	1111	2002/03/20
75	4000	Agilent	1111	1111	2002/03/20
76	4000	Agilent	1111	1111	2002/03/20
77	4000	Agilent	1111	1111	2002/03/20
78	4000	Agilent	1111	1111	2002/03/20
79	4000	Agilent	1111	1111	2002/03/20
80	4000	Agilent	1111	1111	2002/03/20
81	4000	Agilent	1111	1111	2002/03/20
82	4000	Agilent	1111	1111	2002/03/20
83	4000	Agilent	1111	1111	2002/03/20
84	4000	Agilent	1111	1111	2002/03/20
85	4000	Agilent	1111	1111	2002/03/20
86	4000	Agilent	1111	1111	2002/03/20
87	4000	Agilent	1111	1111	2002/03/20
88	4000	Agilent	1111	1111	2002/03/20
89	4000	Agilent	1111	1111	2002/03/20
90	4000	Agilent	1111	1111	2002/03/20
91	4000	Agilent	1111	1111	2002/03/20
92	4000	Agilent	1111	1111	2002/03/20
93	4000	Agilent	1111	1111	2002/03/20
94	4000	Agilent	1111	1111	2002/03/20
95	4000	Agilent	1111	1111	2002/03/20
96	4000	Agilent	1111	1111	2002/03/20
97	4000	Agilent	1111	1111	2002/03/20
98	4000	Agilent	1111	1111	2002/03/20
99	4000	Agilent	1111	1111	2002/03/20
100	4000	Agilent	1111	1111	2002/03/20

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

Test Item

- OE: 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

UL Apex Co., Ltd.