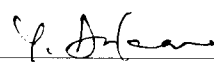


RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.	Report Number : 22IE0009-KT-1
Equipment : DVD/VCR	Regulation : FCC Prt15B Subpart B
Model number : HR-XVC1U	Date : April 15, 2002
Power : AC 120 V / 60 Hz	
Description : Receive + Rec. mode (0 dBmV)	


 Engineer : Yoshiyuki Arakawa

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	83.0	20.4	62.6	69.5	6.9
4	67.25	83.6	20.4	63.2	69.5	6.3

Audio signal

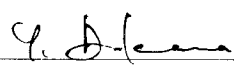
Ch.	Frequency [MHz]		Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	70.9	20.4	50.5	56.5	6.0
	65.75	69.8	20.4	49.4	56.5	7.1
4	62.75	71.1	20.4	50.7	56.5	5.8
	71.75	69.3	20.4	48.9	56.5	7.6

RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.
Equipment : DVD/VCR
Model number : HR-XVC1U
Power : AC 120 V / 60 Hz
Description : Receive + Rec. mode (25 dBmV)

Report Number : 22IE0009-KT-1
Regulation : FCC Part 15B Subpart B
Date : April 15, 2002


 Engineer : Yoshiyuki Arakawa

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	85.4	20.4	65.0	69.5	4.5
4	67.25	85.3	20.4	64.9	69.5	4.7

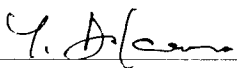
Audio signal

Ch.	Frequency [MHz]		Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	71.1	20.4	50.7	56.5	5.8
	65.75	70.0	20.4	49.6	56.5	6.9
4	62.75	71.1	20.4	50.7	56.5	5.8
	71.75	69.4	20.4	49.0	56.5	7.5

RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company	: ORION ELECTRIC CO., LTD.	Report Number	: 22IE0009-KT-1
Equipment	: DVD/VCR	Regulation	: FCC Part 15B Subpart B
Model number	: HR-XVC1U	Date	: April 15, 2002
Power	: AC 120 V / 60 Hz		
Description	: Line Input + Rec. mode (1 Vp-p)		
Remarks	: Line in		


 Engineer : Yoshiyuki Arakawa

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	85.7	20.4	65.3	69.5	4.2
4	67.25	85.4	20.4	65.0	69.5	4.5

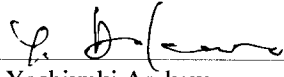
Audio signal

Ch.	Frequency [MHz]		Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	71.4	20.4	51.0	56.5	5.5
	65.75	70.3	20.4	49.9	56.5	6.6
4	62.75	71.3	20.4	50.9	56.5	5.6
	71.75	70.2	20.4	49.8	56.5	6.7

RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.	Report Number : 22IE0009-KT-1
Equipment : DVD/VCR	Regulation : FCC Part15B Subpart B
Model number : HR-XVC1U	Date : April 15, 2002
Power : AC 120 V / 60 Hz	
Description : Line Input + Rec. mode (5 Vp-p)	
Remarks : Line in	


 Engineer : Yoshiyuki Arakawa

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	85.6	20.4	65.2	69.5	4.3
4	67.25	85.3	20.4	64.9	69.5	4.7

Audio signal

Ch.	Frequency [MHz]		Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	71.5	20.4	51.1	56.5	5.4
	65.75	70.3	20.4	49.9	56.5	6.6
4	62.75	71.1	20.4	50.7	56.5	5.8
	71.75	69.3	20.4	48.9	56.5	7.6

RF output level

A-PEX INTERNATIONAL CO., LTD.

Kanto office EMC Lab. _____

Company : ORION ELECTRIC CO., LTD.

Report Number : 22IE0009-KT-1

Equipment : DVD/VCR

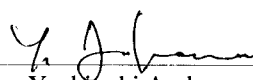
Regulation : FCC Part15B Subpart B

Model number : HR-XVC1U

Date : April 15, 2002

Power : AC 120 V / 60 Hz

Description : Playback mode



 Engineer : Yoshiyuki Arakawa

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	85.8	20.4	65.4	69.5	4.1
4	67.25	85.3	20.4	64.9	69.5	4.7

Audio signal

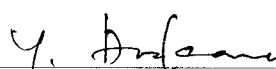
Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	71.5	20.4	51.1	56.5	5.4
	65.75	70.3	20.4	49.9	56.5	6.6
4	62.75	71.1	20.4	50.7	56.5	5.8
	71.75	69.4	20.4	49.0	56.5	7.5

RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.
Equipment : DVD/VCR
Model number : HR-XVC1U
Power : AC 120 V / 60 Hz
Description : DVD PLAY

Report Number : 22IE0009-KT-1
Regulation : FCC Part15B Subpart B
Date : April 15, 2002


 Engineer : Yoshiyuki Arakawa

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	85.5	20.4	65.1	69.5	4.4
4	67.25	83.6	20.4	63.2	69.5	6.3

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	71.5	20.4	51.1	56.5	5.4
	65.75	70.3	20.4	49.9	56.5	6.6
4	62.75	71.2	20.4	50.8	56.5	5.7
	71.75	69.4	20.4	49.0	56.5	7.5

SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

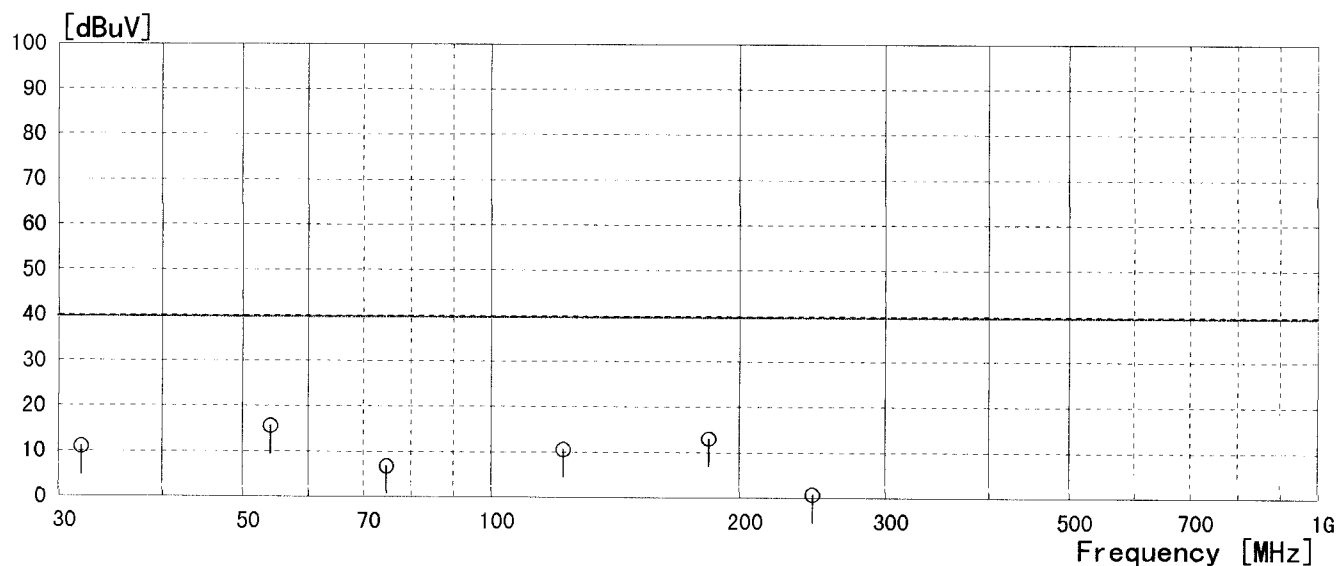
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : RECEIVE+REC (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 0dBmV

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 1

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.000	32.6	----	-21.7	10.9	----	39.5	----	28.6	----
2	54.140	37.1	----	-21.6	15.6	----	39.5	----	23.9	----
3	74.761	28.3	----	-21.5	6.8	----	39.5	----	32.7	----
4	122.500	31.9	----	-21.4	10.6	----	39.5	----	28.9	----
5	183.750	34.4	----	-21.4	13.0	----	39.5	----	26.5	----
6	245.000	22.1	----	-21.4	0.7	----	39.5	----	38.8	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

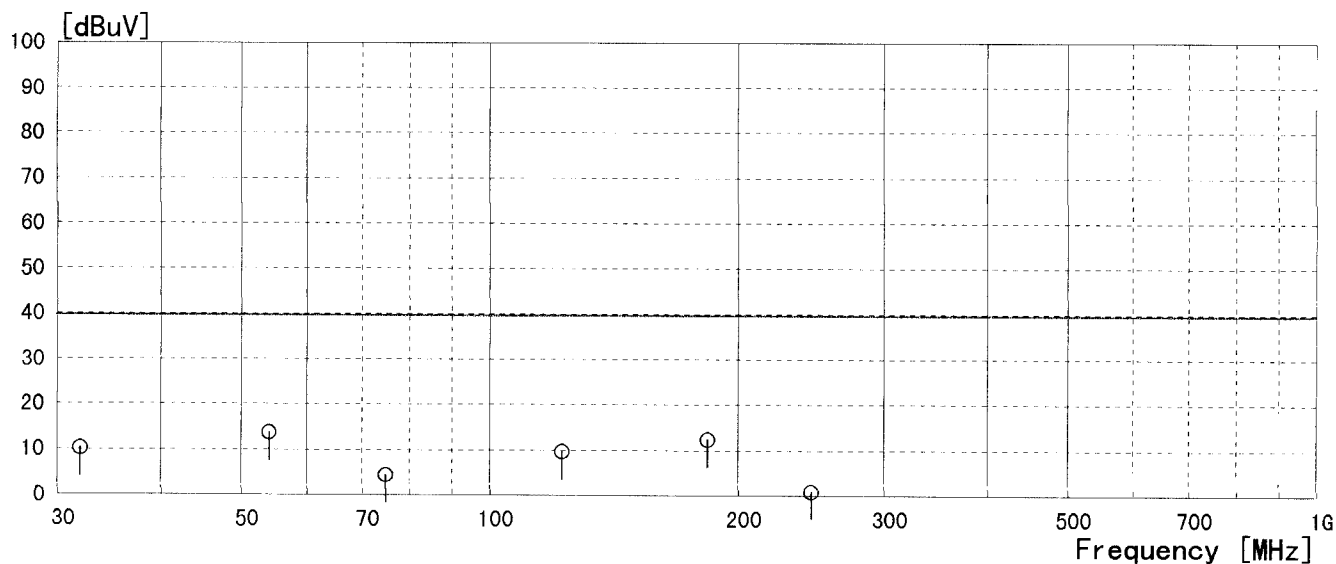
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : RECEIVE+REC (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 25dBmV

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 2

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.007	31.9	----	-21.7	10.3	----	39.5	----	29.2	----
2	54.100	35.3	----	-21.6	13.7	----	39.5	----	25.8	----
3	74.814	25.9	----	-21.5	4.4	----	39.5	----	35.1	----
4	122.500	31.1	----	-21.4	9.7	----	39.5	----	29.8	----
5	183.750	33.8	----	-21.4	12.4	----	39.5	----	27.1	----
6	245.000	22.3	----	-21.4	0.9	----	39.5	----	38.6	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

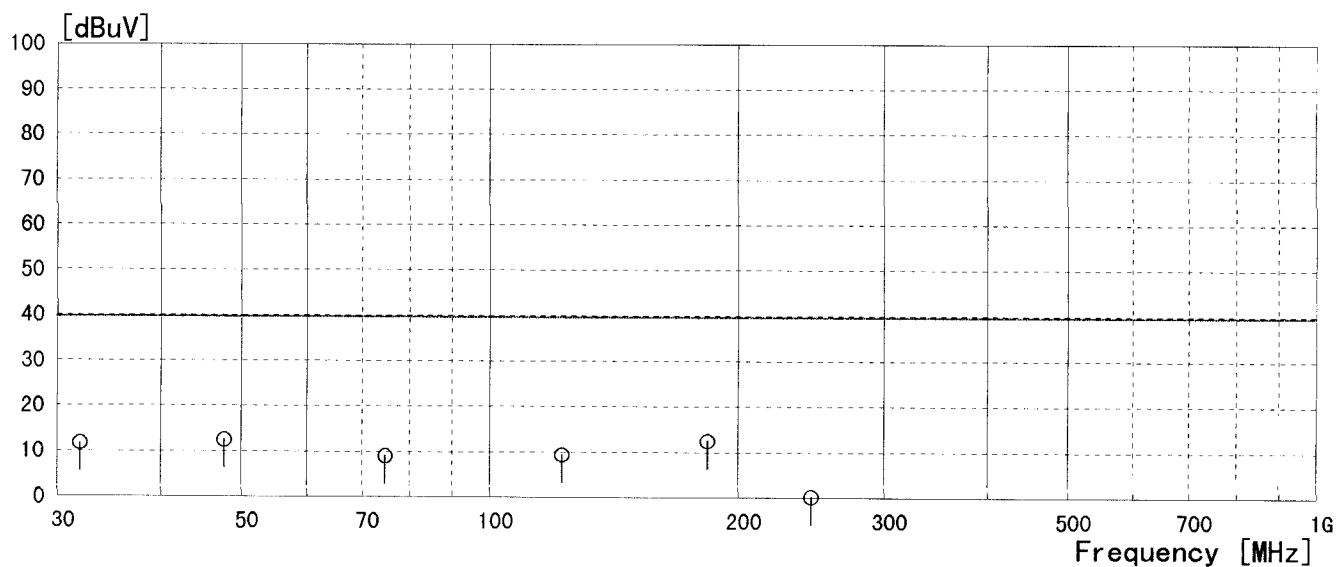
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC(3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 1Vp-p INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 3

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.009	33.4	----	-21.7	11.7	----	39.5	----	27.8	----
2	47.759	34.1	----	-21.6	12.5	----	39.5	----	27.0	----
3	74.753	30.5	----	-21.5	9.0	----	39.5	----	30.5	----
4	122.500	30.7	----	-21.4	9.3	----	39.5	----	30.2	----
5	183.750	33.8	----	-21.4	12.4	----	39.5	----	27.1	----
6	245.000	21.6	----	-21.4	0.2	----	39.5	----	39.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

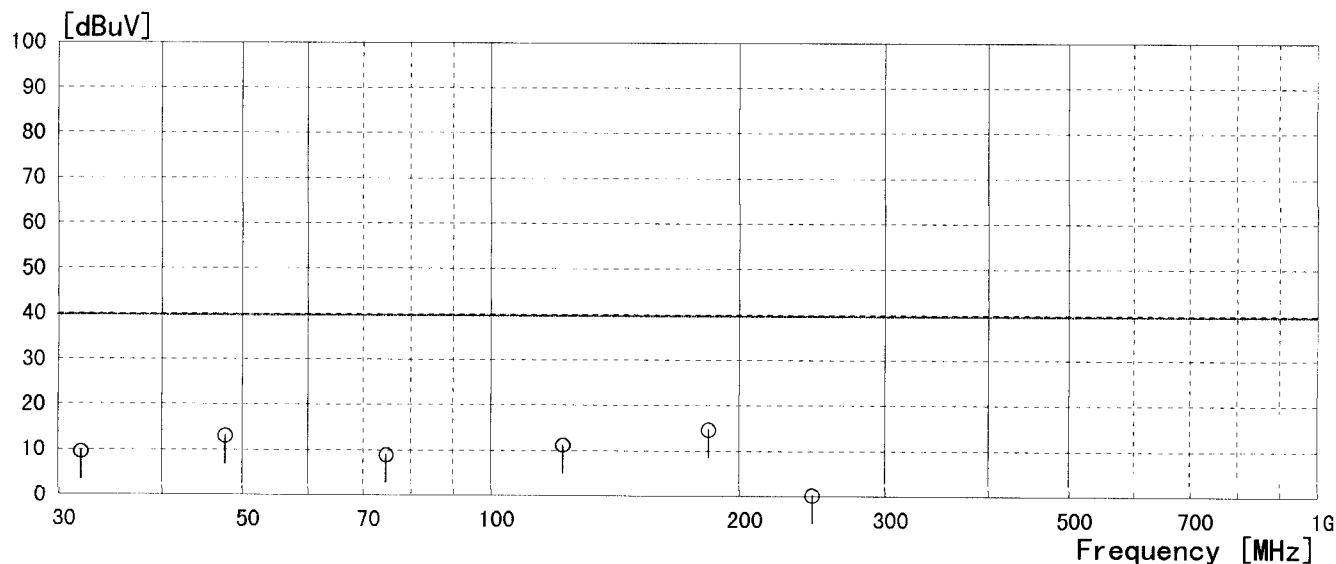
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC(3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 5Vp-p INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 4

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.002	31.2	----	-21.7	9.5	----	39.5	----	30.0	----
2	47.754	34.7	----	-21.6	13.1	----	39.5	----	26.4	----
3	74.752	30.3	----	-21.5	8.9	----	39.5	----	30.6	----
4	122.500	32.5	----	-21.4	11.1	----	39.5	----	28.4	----
5	183.750	36.1	----	-21.4	14.6	----	39.5	----	24.9	----
6	245.000	21.6	----	-21.4	0.2	----	39.5	----	39.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

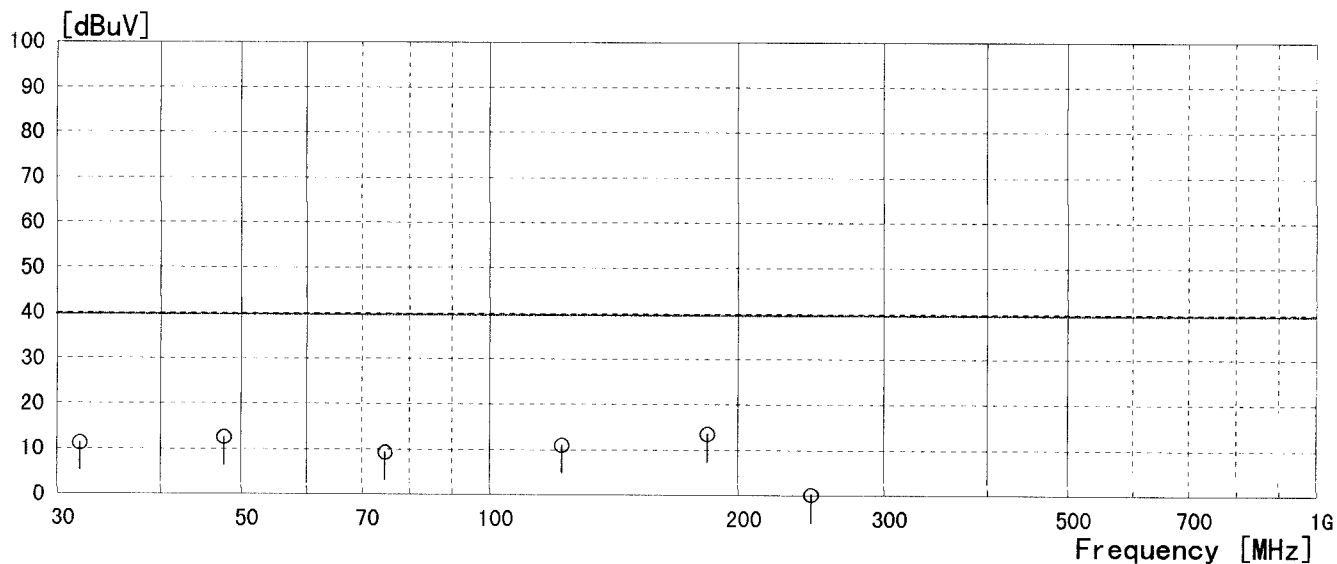
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : VCR PLAYBACK (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 5

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.004	32.9	----	-21.7	11.3	----	39.5	----	28.2	----
2	47.753	34.2	----	-21.6	12.6	----	39.5	----	26.9	----
3	74.752	30.8	----	-21.5	9.3	----	39.5	----	30.2	----
4	122.500	32.3	----	-21.4	11.0	----	39.5	----	28.5	----
5	183.750	34.9	----	-21.4	13.5	----	39.5	----	26.0	----
6	245.000	21.5	----	-21.4	0.1	----	39.5	----	39.4	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

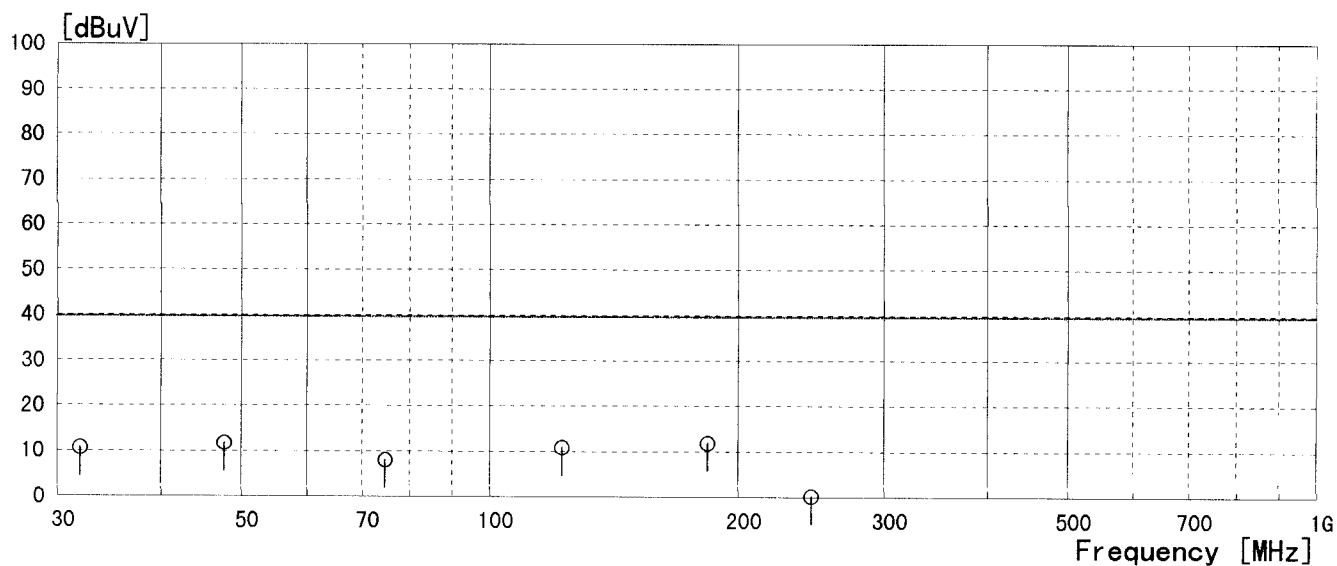
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : DVD PLAY (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 6

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.004	32.3	----	-21.7	10.6	----	39.5	----	28.9	----
2	47.756	33.3	----	-21.6	11.7	----	39.5	----	27.8	----
3	74.754	29.5	----	-21.5	8.0	----	39.5	----	31.5	----
4	122.500	32.2	----	-21.4	10.8	----	39.5	----	28.7	----
5	183.750	33.2	----	-21.4	11.8	----	39.5	----	27.7	----
6	245.000	21.6	----	-21.4	0.2	----	39.5	----	39.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

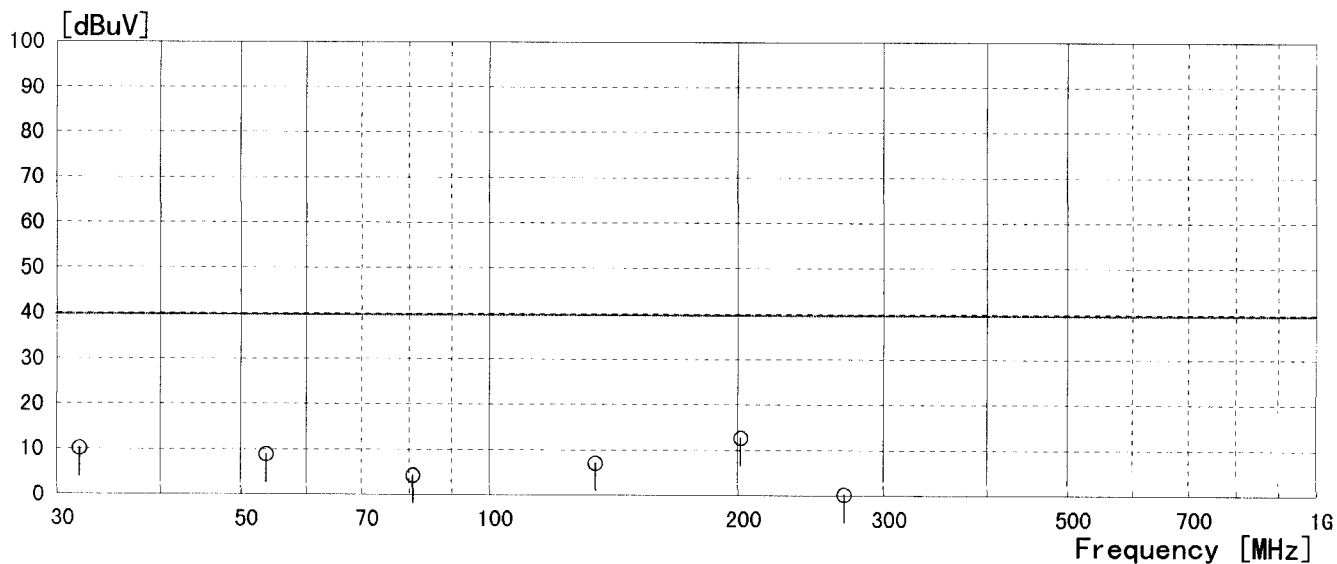
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : RECEIVE+REC (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 0dBmV

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 7

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.001	31.8	----	-21.7	10.1	----	39.5	----	29.4	----
2	53.769	30.4	----	-21.6	8.8	----	39.5	----	30.7	----
3	80.879	25.6	----	-21.4	4.2	----	39.5	----	35.3	----
4	134.500	28.4	----	-21.4	7.0	----	39.5	----	32.5	----
5	201.750	34.1	----	-21.4	12.7	----	39.5	----	26.8	----
6	269.000	21.6	----	-21.4	0.2	----	39.5	----	39.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

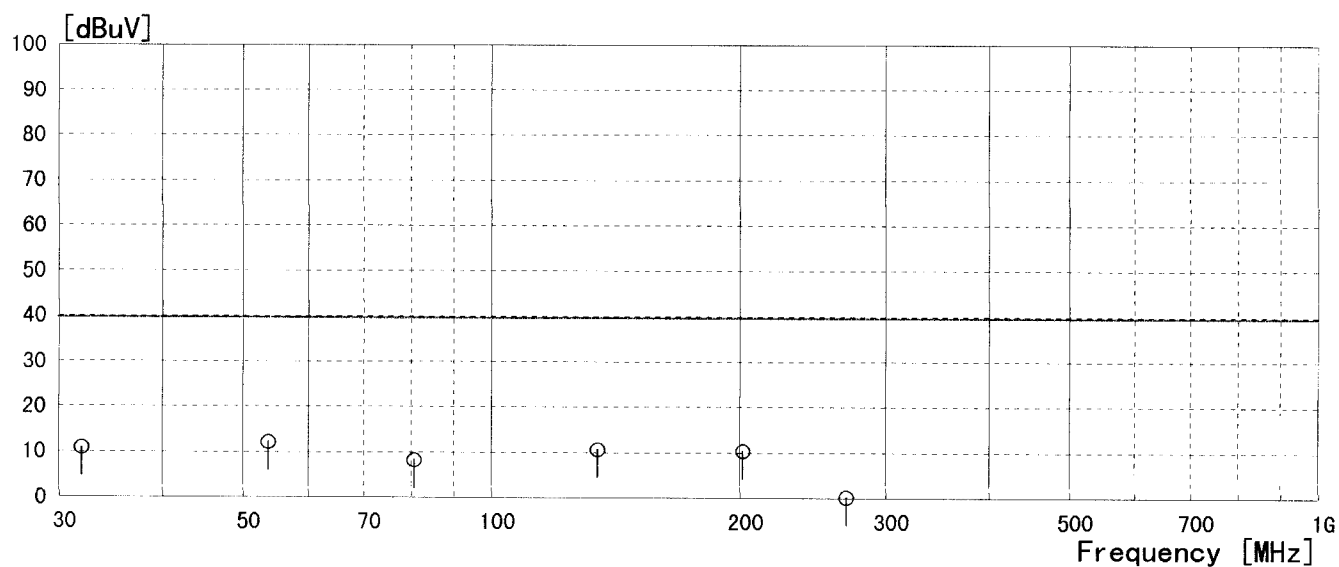
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : RECEIVE+REC (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 25dBmV

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 8

Y. Arakawa
TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.002	32.6	----	-21.7	10.9	----	39.5	----	28.6	----
2	53.774	33.7	----	-21.6	12.2	----	39.5	----	27.3	----
3	80.710	29.7	----	-21.4	8.2	----	39.5	----	31.3	----
4	134.500	32.0	----	-21.4	10.6	----	39.5	----	28.9	----
5	201.750	31.8	----	-21.4	10.3	----	39.5	----	29.2	----
6	269.000	21.6	----	-21.4	0.2	----	39.5	----	39.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

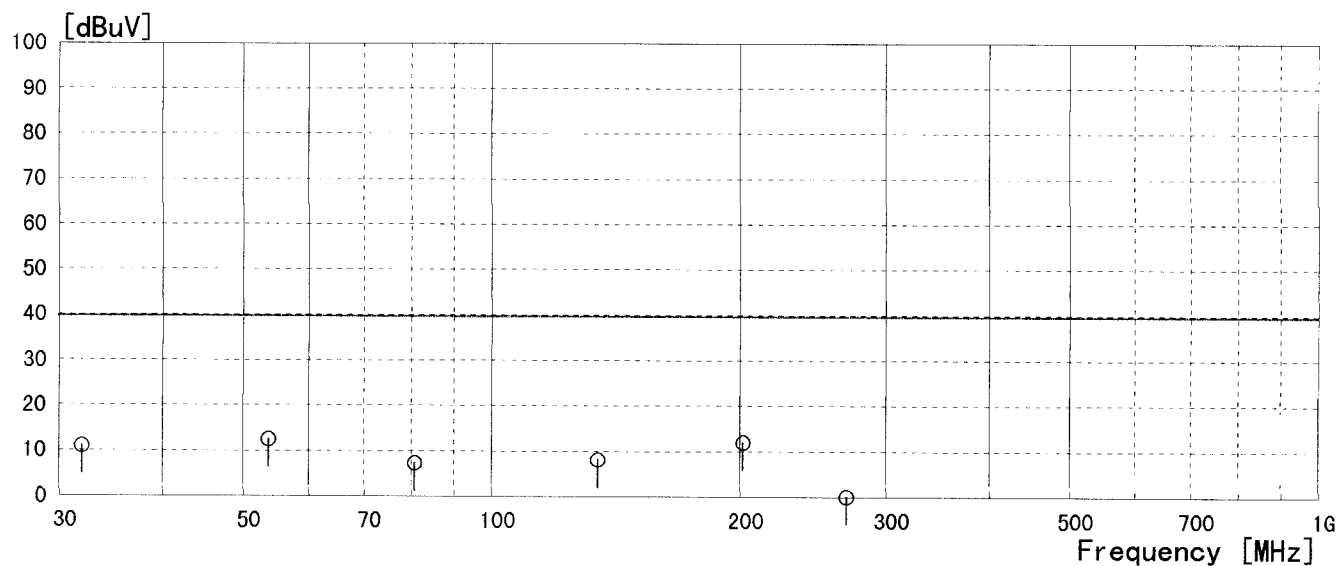
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC(4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 1Vp-p INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 9

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.001	32.7	----	-21.7	11.0	----	39.5	----	28.5	----
2	53.756	34.1	----	-21.6	12.5	----	39.5	----	27.0	----
3	80.754	28.8	----	-21.4	7.3	----	39.5	----	32.2	----
4	134.500	29.5	----	-21.4	8.1	----	39.5	----	31.4	----
5	201.750	33.4	----	-21.4	12.0	----	39.5	----	27.5	----
6	269.000	21.5	----	-21.4	0.1	----	39.5	----	39.4	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

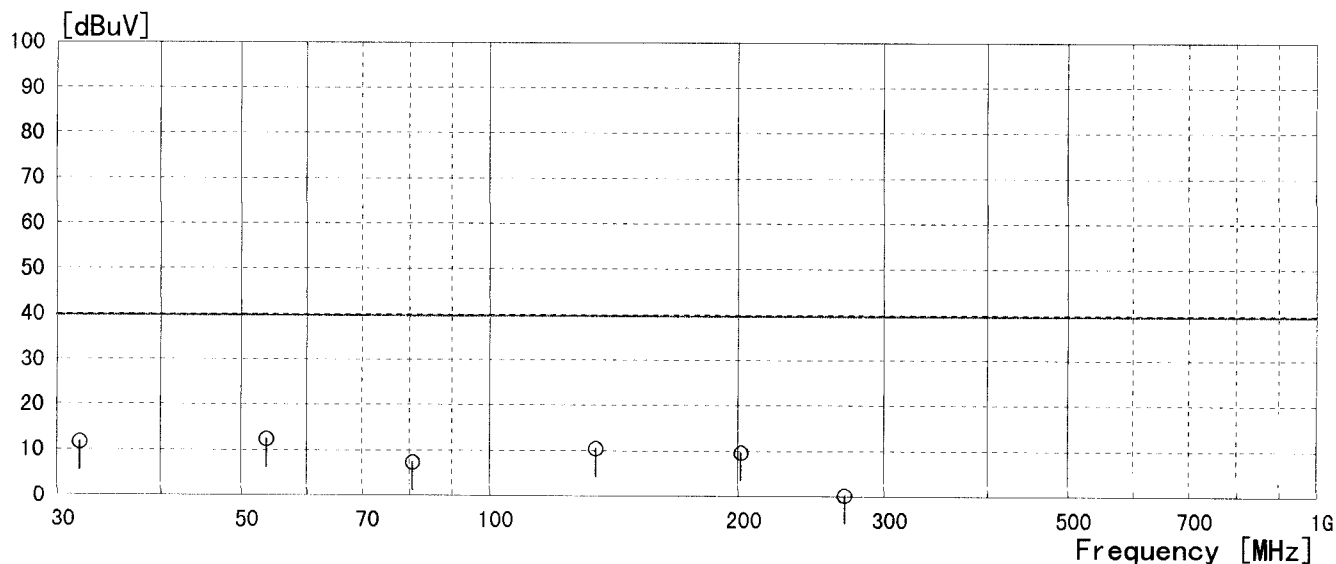
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC(4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 5Vp-p INPUT

REPORT No. : 221E0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 10

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.001	33.3	----	-21.7	11.7	----	39.5	----	27.8	----
2	53.752	33.9	----	-21.6	12.3	----	39.5	----	27.2	----
3	80.752	28.8	----	-21.4	7.3	----	39.5	----	32.2	----
4	134.500	31.8	----	-21.4	10.4	----	39.5	----	29.1	----
5	201.750	31.0	----	-21.4	9.6	----	39.5	----	29.9	----
6	269.000	21.6	----	-21.4	0.2	----	39.5	----	39.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

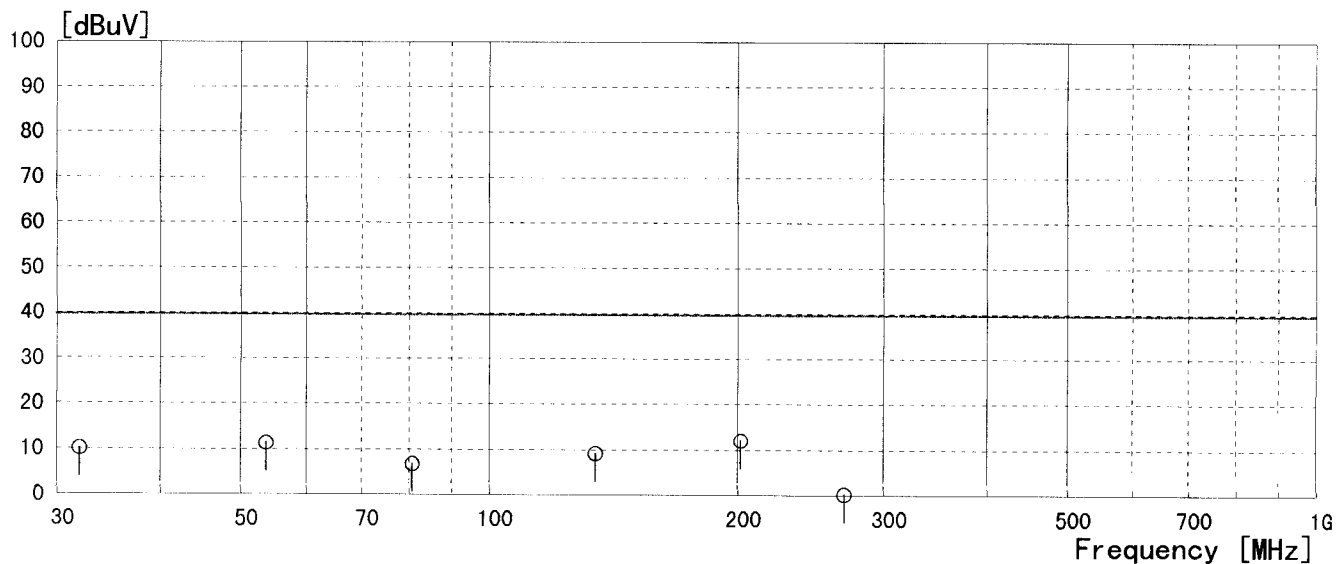
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : VCR PLAYBACK (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 221E0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 11

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.001	31.8	----	-21.7	10.1	----	39.5	----	29.4	----
2	53.753	32.9	----	-21.6	11.3	----	39.5	----	28.2	----
3	80.753	28.2	----	-21.4	6.7	----	39.5	----	32.8	----
4	134.500	30.5	----	-21.4	9.1	----	39.5	----	30.4	----
5	201.750	33.4	----	-21.4	12.0	----	39.5	----	27.5	----
6	269.000	21.6	----	-21.4	0.2	----	39.5	----	39.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

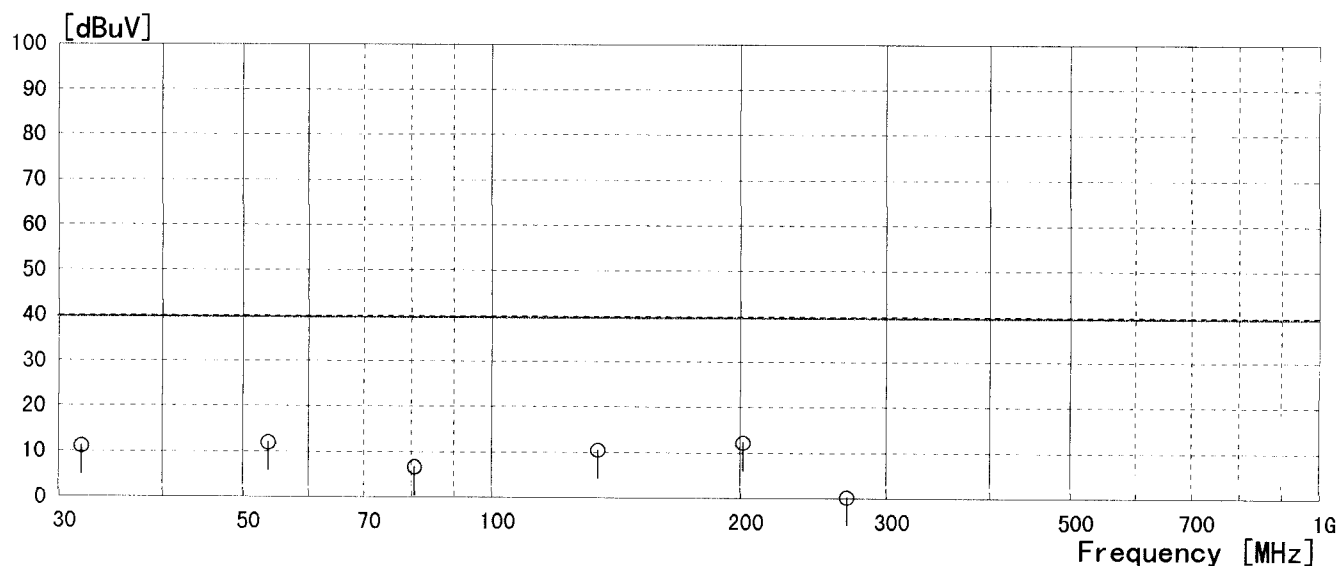
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : DVD PLAY (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 221E0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 12

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.007	32.8	----	-21.7	11.1	----	39.5	----	28.4	----
2	53.750	33.5	----	-21.6	12.0	----	39.5	----	27.5	----
3	80.754	28.1	----	-21.4	6.6	----	39.5	----	32.9	----
4	134.500	31.8	----	-21.4	10.4	----	39.5	----	29.1	----
5	201.653	33.6	----	-21.4	12.2	----	39.5	----	27.3	----
6	269.000	21.6	----	-21.4	0.2	----	39.5	----	39.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

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KANTO OFFICE EMC LAB.

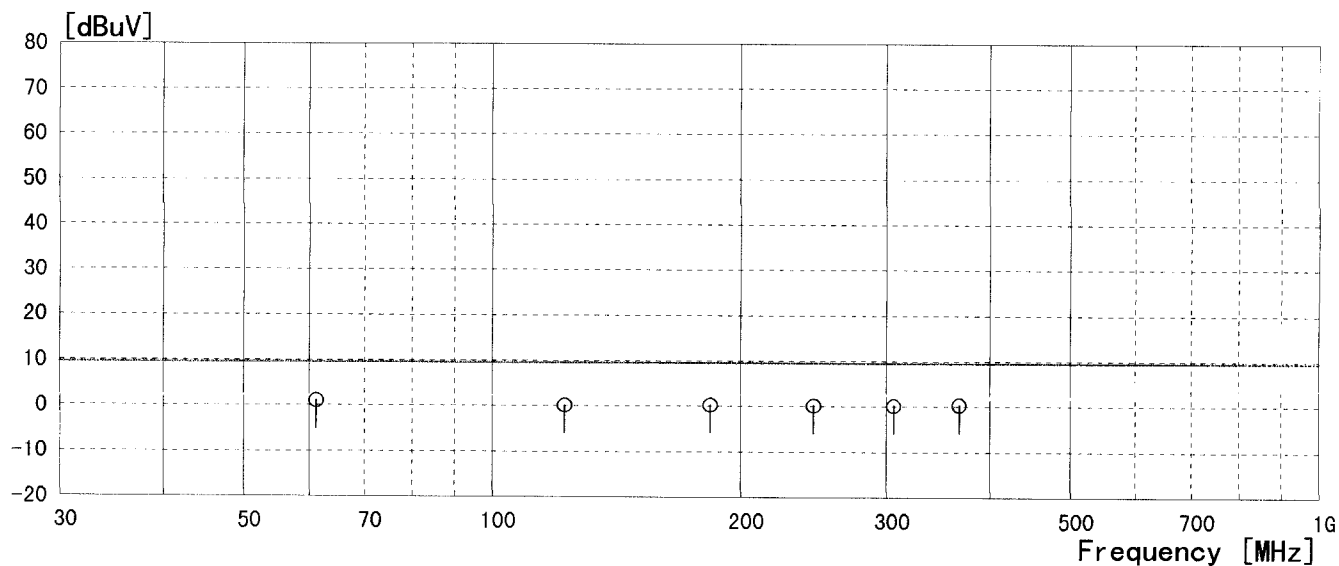
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC(3CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 1Vp-p INPUT

REPORT No. : 221E0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 1

TEST ENGINEER: YOSHIYUKI ARAKAWA

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	22.5	----	-21.5	1.0	----	9.5	----	8.5	----
2	122.500	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
3	183.750	21.7	----	-21.4	0.3	----	9.5	----	9.2	----
4	245.000	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
5	306.250	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
6	367.500	21.7	----	-21.4	0.3	----	9.5	----	9.2	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

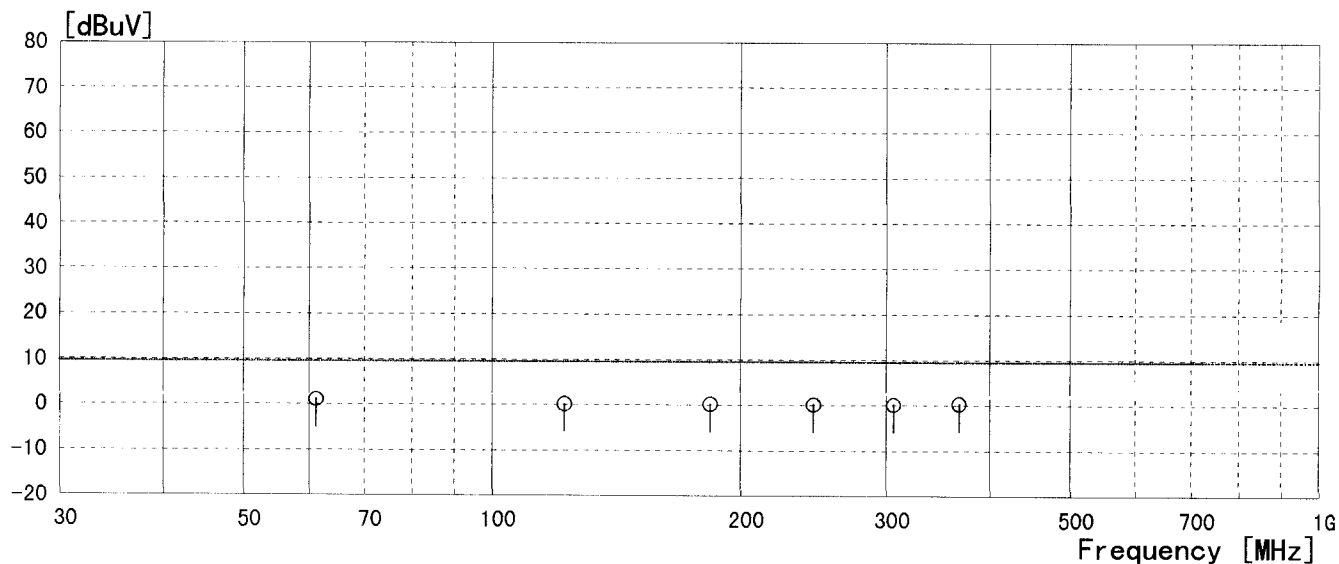
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: LINE IN + REC(3CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 5Vp-p INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 2

TEST ENGINEER: YOSHIYUKI ARAKAWA

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	22.7	----	-21.5	1.1	----	9.5	----	8.4	----
2	122.500	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
3	183.750	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
4	245.000	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
5	306.250	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
6	367.500	21.7	----	-21.4	0.3	----	9.5	----	9.2	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

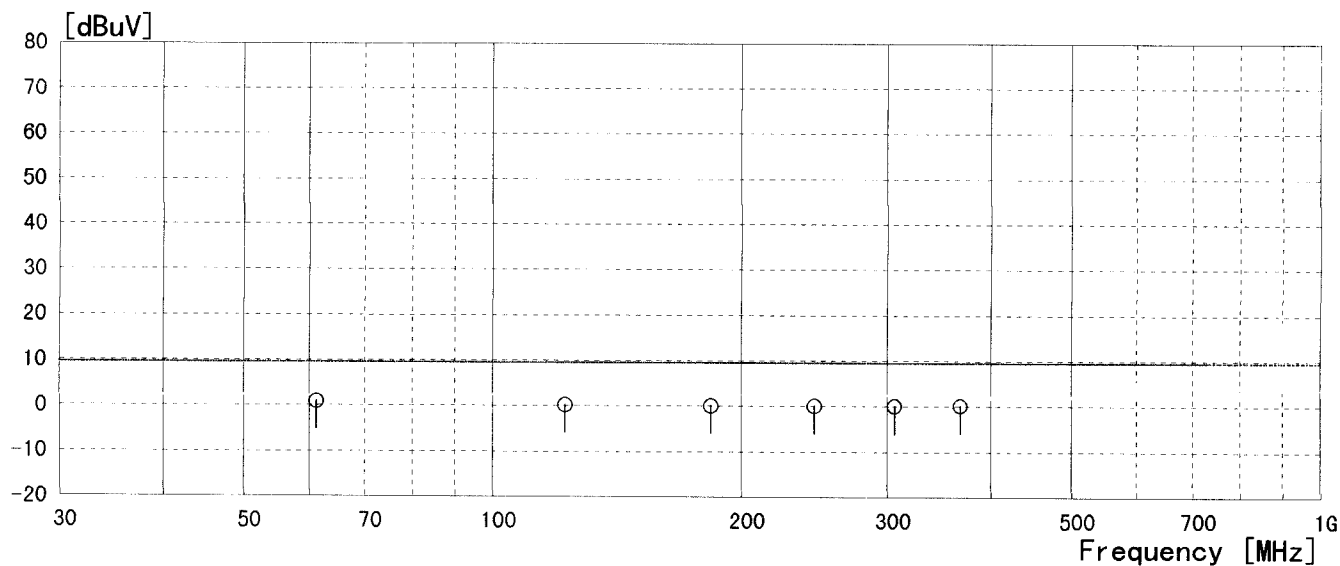
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : VCR PLAYBACK (3CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 3

TEST ENGINEER: YOSHIYUKI ARAKAWA

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	22.4	----	-21.5	0.9	----	9.5	----	8.6	----
2	122.500	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
3	183.750	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
4	245.000	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
5	306.250	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
6	367.500	21.5	----	-21.4	0.1	----	9.5	----	9.4	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

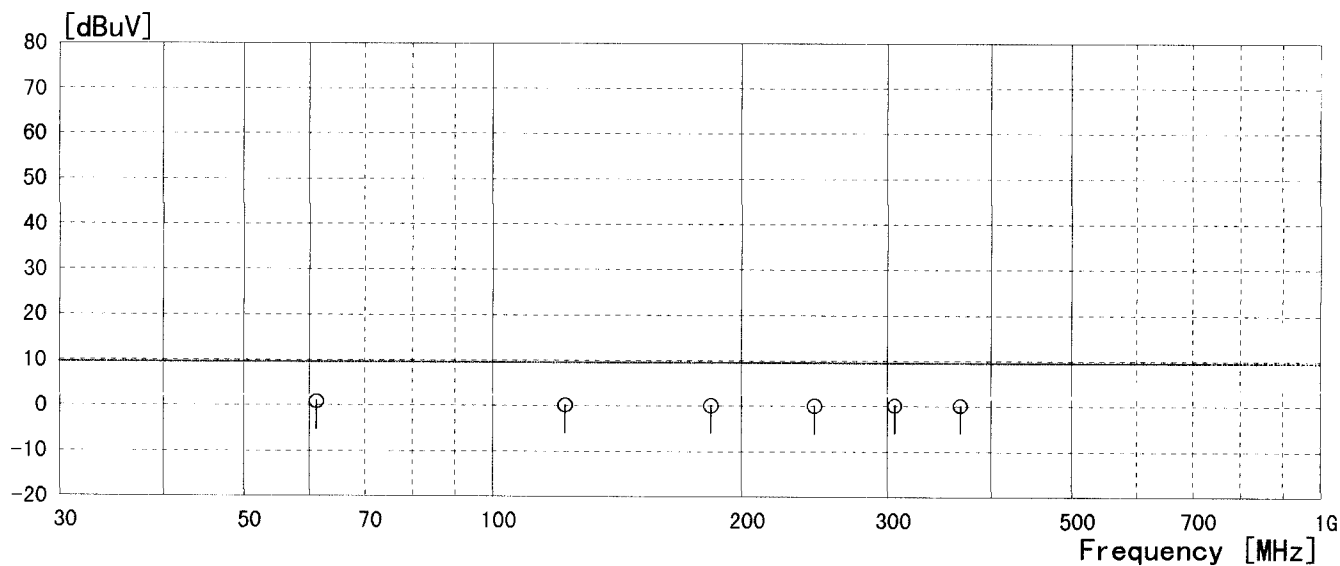
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : DVD PLAY (3CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 221E0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 4

TEST ENGINEER: YOSHIYUKI ARAKAWA

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	22.4	----	-21.5	0.9	----	9.5	----	8.6	----
2	122.500	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
3	183.750	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
4	245.000	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
5	306.250	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
6	367.500	21.5	----	-21.4	0.1	----	9.5	----	9.4	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

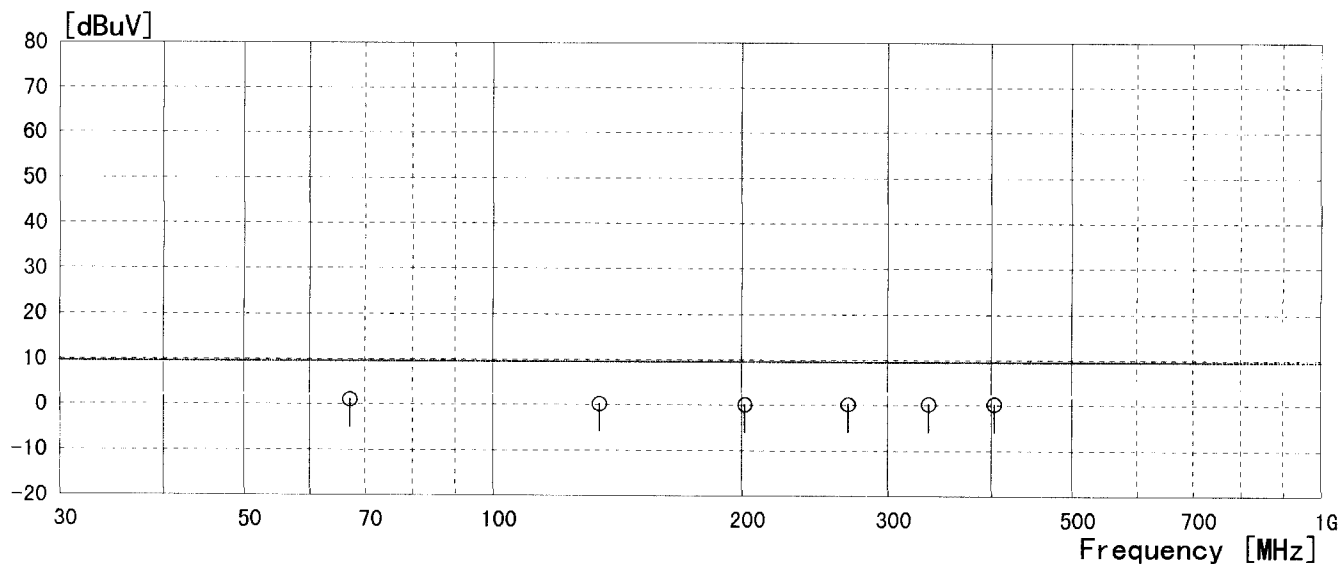
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC(4CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 1Vp-p INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 5

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	67.250	22.6	----	-21.5	1.1	----	9.5	----	8.4	----
2	134.500	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
3	201.750	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
4	269.000	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
5	336.250	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
6	403.500	21.5	----	-21.3	0.2	----	9.5	----	9.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

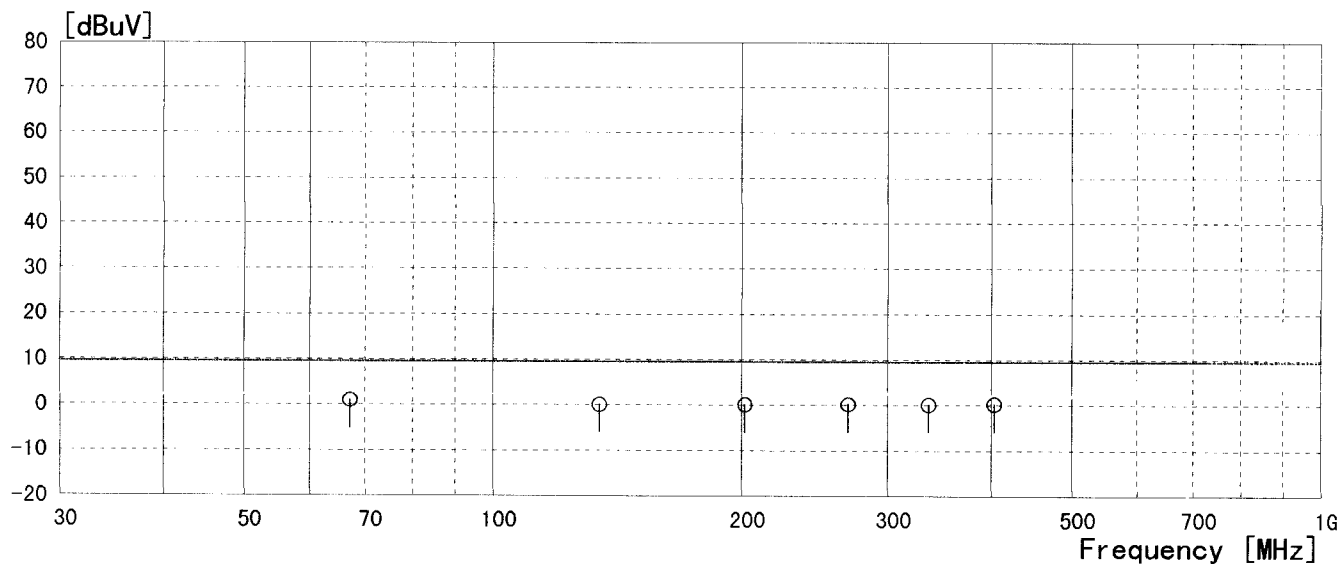
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC(4CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 5Vp-p INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 6

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	67.250	22.5	----	-21.5	1.0	----	9.5	----	8.5	----
2	134.500	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
3	201.750	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
4	269.000	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
5	336.250	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
6	403.500	21.5	----	-21.3	0.2	----	9.5	----	9.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

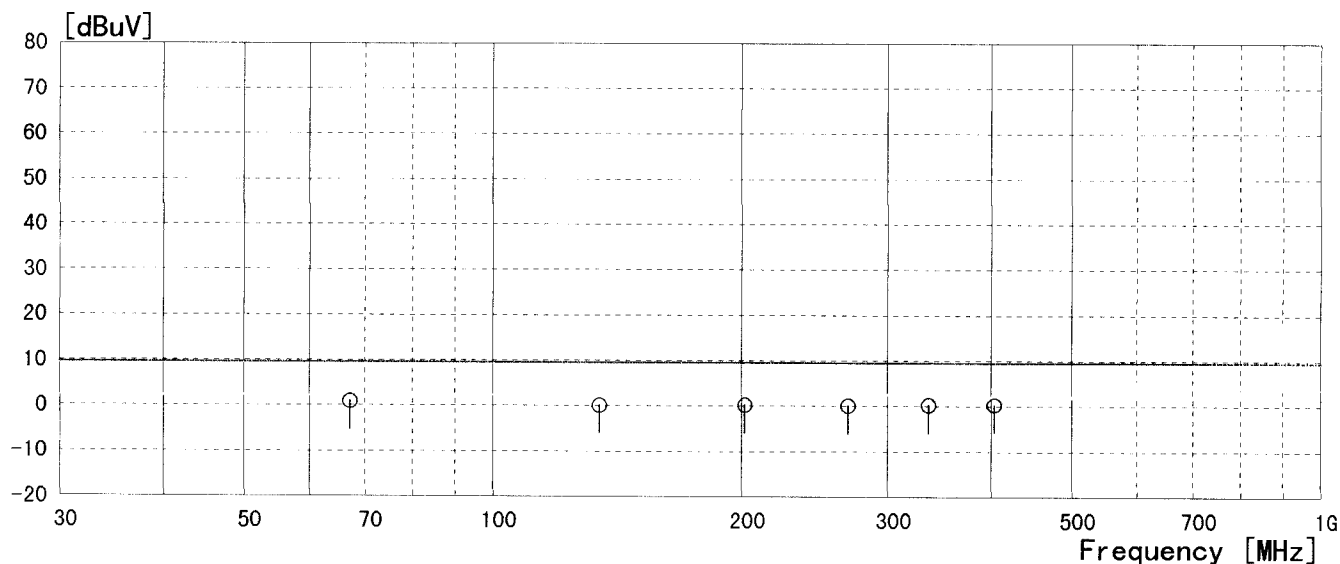
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : VCR PLAYBACK (4CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 221E0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 7

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	67.250	22.4	----	-21.5	0.9	----	9.5	----	8.6	----
2	134.500	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
3	201.750	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
4	269.000	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
5	336.250	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
6	403.500	21.6	----	-21.3	0.3	----	9.5	----	9.2	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

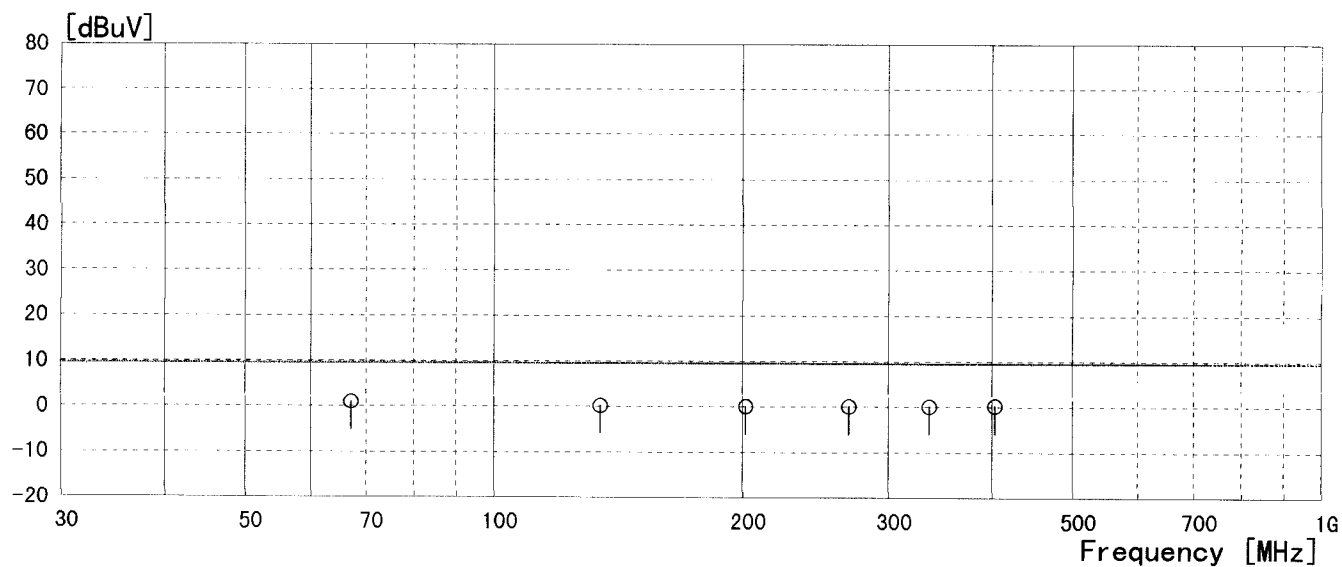
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : DVD PLAY (4CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 221E0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 8

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	67.250	22.5	----	-21.5	1.0	----	9.5	----	8.5	----
2	134.500	21.6	----	-21.4	0.2	----	9.5	----	9.3	----
3	201.750	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
4	269.000	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
5	336.250	21.5	----	-21.4	0.1	----	9.5	----	9.4	----
6	403.500	21.5	----	-21.3	0.2	----	9.5	----	9.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Laboratory

Report Number : 22IE0009-KT-1
Regulation : FCC Prat15B Subpart B
Date : April 16, 2002

Engineer : Yoshiyuki Arakawa

Ch.	Frequency	Sensitivity		Ch.	Frequency	Sensitivity	
[VHF]	[MHz]	[dBuV]	[uV]	[UHF]	[MHz]	[dBuV]	[uV]
2	55.25	20.0	10.0	14	471.25	20.5	10.6
3	61.25	18.6	8.5	20	507.25	20.5	10.6
4	67.25	18.8	8.7	26	543.25	20.7	10.8
5	77.25	19.2	9.1	32	579.25	20.9	11.1
6	83.25	19.6	9.5	38	615.25	21.1	11.4
7	175.25	16.9	7.0	44	651.25	21.1	11.4
8	181.25	16.9	7.0	50	687.25	21.2	11.5
9	187.25	16.9	7.0	56	723.25	21.3	11.6
10	193.25	16.8	6.9	62	759.25	21.3	11.6
11	199.25	16.9	7.0	69	801.25	21.4	11.7
12	205.25	17.0	7.1	-	-	-	-
13	211.25	16.8	6.9	-	-	-	-
Average VHF			7.9	Average UHF			11.2
Average UHF/VHF : $20 \log \text{UHF[uV]}/\text{VHF[uV]} =$				3.1	dB		

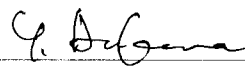
[Limit : 8.0 dB]

Noise figure test

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Laboratory

Company : ORION ELECTRIC CO., LTD.
Equipment : DVD/VCR
Model number : HR-XVC1U
Power : AC 120 V / 60 Hz
Description : Receive mode

Report Number : 22IE0009-KT-1
Regulation : FCC Part15B Subpart B
Date : April 16, 2002


 Engineer : Yoshiyuki Arakawa

Ch.	Frequency [MHz]	Meter reading [dB]	Correction factor [dB]	Noise figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	5.4	0.2	5.2	14.0	8.8
3	61.25	4.6	0.2	4.4	14.0	9.6
4	67.25	5.3	0.2	5.1	14.0	8.9
5	77.25	6.9	0.2	6.7	14.0	7.3
6	83.25	7.8	0.2	7.6	14.0	6.4
7	175.25	2.9	0.2	2.7	14.0	11.3
8	181.25	3.0	0.2	2.8	14.0	11.2
9	187.25	3.1	0.2	2.9	14.0	11.1
10	193.25	3.3	0.2	3.1	14.0	10.9
11	199.25	3.4	0.2	3.2	14.0	10.8
12	205.25	3.6	0.2	3.4	14.0	10.6
13	211.25	3.8	0.2	3.6	14.0	10.4
TV UHF Fundamental						
14	471.25	6.2	0.3	5.9	14.0	8.1
20	507.25	6.9	0.3	6.6	14.0	7.4
26	543.25	7.6	0.3	7.3	14.0	6.7
32	579.25	8.2	0.3	7.9	14.0	6.1
38	615.25	8.5	0.3	8.2	14.0	5.8
44	651.25	8.5	0.3	8.2	14.0	5.8
50	687.25	8.4	0.3	8.1	14.0	5.9
56	723.25	8.2	0.4	7.8	14.0	6.2
62	759.25	7.8	0.4	7.4	14.0	6.6
69	801.25	7.4	0.4	7.0	14.0	7.0
Mid-band						
14	121.25	6.6	0.2	6.4	14.0	7.6
16	133.25	4.7	0.2	4.5	14.0	9.5
18	145.25	3.6	0.2	3.4	14.0	10.6
20	157.25	3.1	0.2	2.9	14.0	11.1
22	169.25	3.0	0.2	2.8	14.0	11.2
Super-band						
23	217.25	3.9	0.2	3.7	14.0	10.3
26	235.25	4.4	0.2	4.2	14.0	9.8
29	253.25	4.8	0.2	4.6	14.0	9.4
32	271.25	5.1	0.2	4.9	14.0	9.1
36	295.25	5.4	0.2	5.2	14.0	8.8