

DATA OF ANTENNA TERMINAL

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

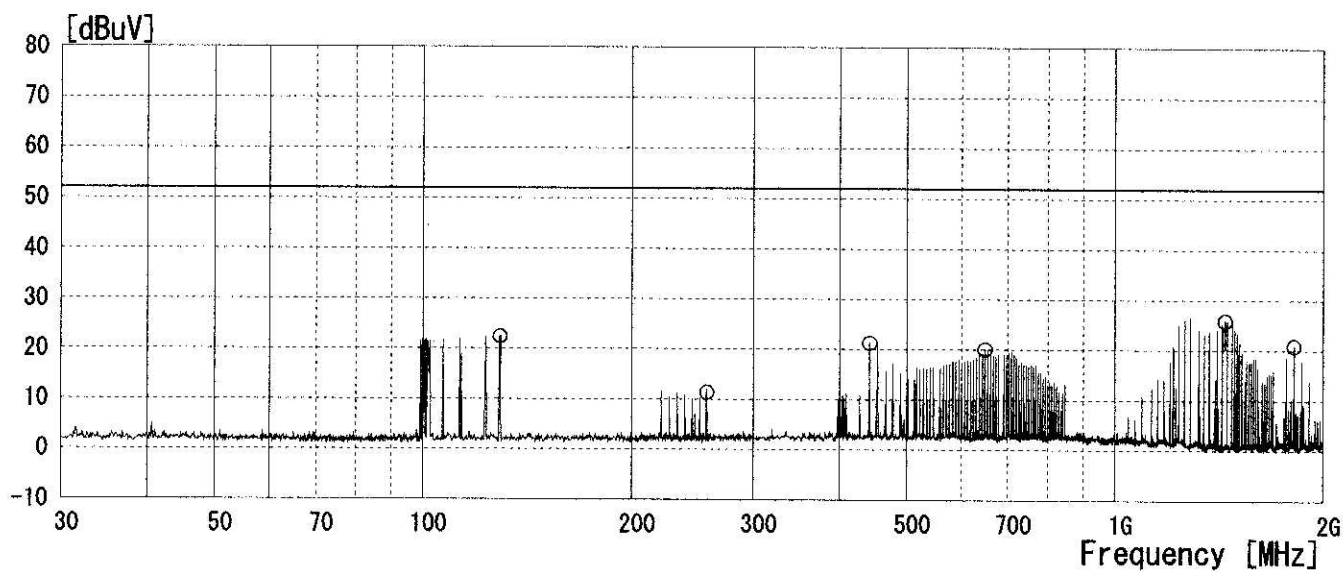
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : VIDEO CASSETTE RECORDER
MODEL NAME : W501
OPERATION MODE : TUNNING
PORT : ANTENNA TERMINAL
POWER : AC120V/50Hz
REMARKS : TV MODE

REPORT No. : 19D0031-04-1
DATE : MAY 1, 2000
REGULATION : FCC PART15 SUBPART B
TEST No. : 1

TEST ENGINEER: HITSUYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	129.140	43.4	—	-21.0	22.4	—	52.0	—	29.6	—
2	257.100	32.3	—	-20.9	11.4	—	52.0	—	40.6	—
3	442.100	42.2	—	-20.9	21.3	—	52.0	—	30.7	—
4	649.000	41.0	—	-20.9	20.1	—	52.0	—	31.9	—
5	1441.400	55.4	—	-29.5	25.9	—	52.0	—	26.1	—
6	1815.000	50.1	—	-29.2	20.9	—	52.0	—	31.1	—

RESULTS=READING+CABLE LOSS+PAD LOSS



DATA OF ANTENNA TERMINALA-PEX INTERNATIONAL CO., LTD.
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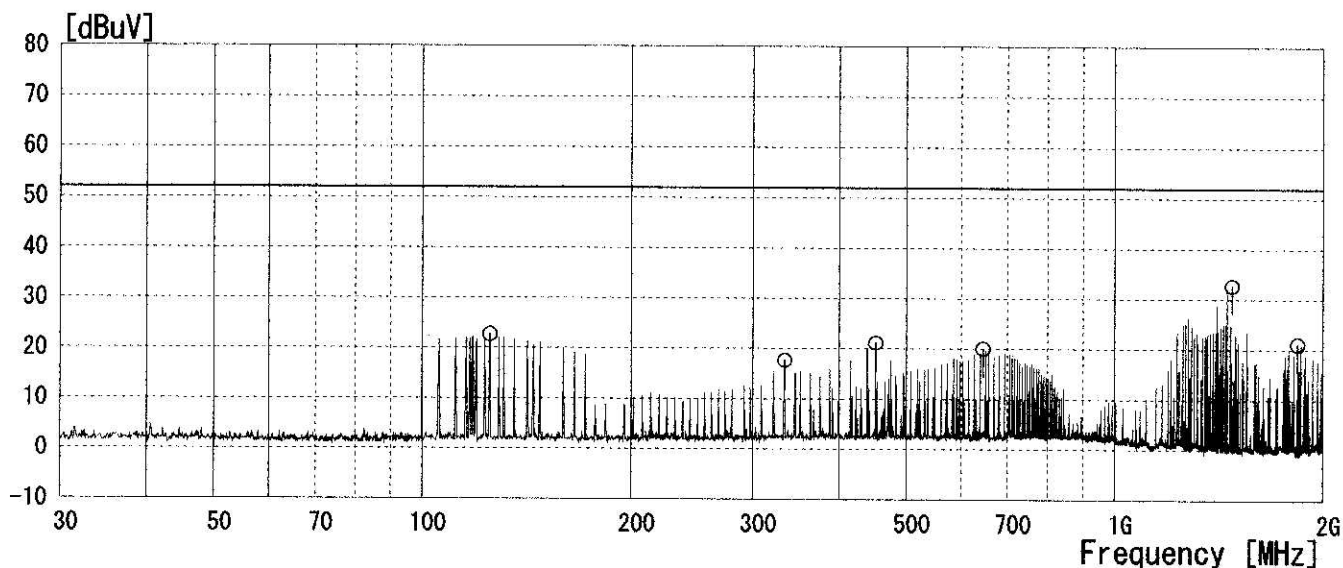
COMPANY : ORION ELECTRIC CO., LTD.
 EQUIPMENT : VIDEO CASSETTE RECORDER
 MODEL NAME : W501
 OPERATION MODE : TUNNING
 PORT : ANTENNA TERMINAL
 POWER : AC120V/50Hz
 REMARKS : CATV MODE

REPORT No. : 19D0031-04-1
 DATE : MAY 1, 2000
 REGULATION : FCC PART 15 SUBPART B
 TEST No. : 2

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	125.100	43.7	—	-21.0	22.7	—	52.0	—	29.3	—
2	333.900	38.6	—	-20.9	17.7	—	52.0	—	34.3	—
3	451.700	42.1	—	-20.9	21.2	—	52.0	—	30.8	—
4	645.900	41.0	—	-20.9	20.1	—	52.0	—	31.9	—
5	1477.900	62.3	—	-29.5	32.8	—	52.0	—	19.2	—
6	1837.900	50.3	—	-29.2	21.1	—	52.0	—	30.9	—

RESULTS=READING+CABLE LOSS+PAD LOSS



DATA OF ANTENNA TERMINAL

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

COMPANY : ORION ELECTRIC CO.,LTD.
EQUIPMENT : VIDEO CASSETTE RECORDER
MODEL No. : W501
POWER : AC120V/60Hz
DESCRIPTION : TV RECEPTION

REPORT No. : 19D0031-04-1
REGULATION : FCC Part 15 Subpart B
: 15.118 (C)-5
DATE : MAY 1, 2000

ENGINEER : HISAYUKI KIOKA

CH	FUNDAMENTAL RREQ. [MHz]	READING [dBuV]	C. FACTOR [dB]	RESULT [dBuV]	LIMIT [dBuV]	MARGIN [dB]
3	101	38.6	21.0	17.6	34	16.4
5	123	39.1	21.0	18.1	34	15.9
7	221	30.7	20.9	9.8	34	24.2
13	257	30.7	20.9	9.8	34	24.2
37	347	34.4	20.9	13.5	40	26.5
40	365	34.8	20.9	13.9	40	26.1
50	425	30.7	20.9	9.8	40	30.2
60	485	33.3	20.9	12.4	40	27.6
62	497	34.3	20.9	13.4	45	31.6
80	605	37.0	20.9	16.1	45	28.9
100	695	36.8	20.9	15.9	45	29.1
125	845	34.5	20.9	13.6	45	31.4

A2-19

RF OUTPUT LEVEL

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

COMPANY : ORION ELECTRIC CO.,LTD.
EQUIPMENT : VIDEO CASSETTE RECORDER
MODEL No. : W501
POWER : AC120V/60Hz
DESCRIPTION : REC MODE

REPORT No. : 19D0031-04-1
REGULATION : FCC Part 15 Subpart B
DATE : May 2, 2000

ENGINEER


: HISAYUKI. KIOKA

Video Signal

CH.	FREQ [MHz]	METER READING [dBuV]	MACHING TR. FACTOR [dB]	RESULT [dB]	LIMIT [dBuV]	MARGIN [dB]
3	61.25	57.1	7.8	64.9	69.5	4.6
4	67.25	56.7	7.8	64.5	69.5	5.0

Audio Signal

CH.	FREQ [MHz]	METER READING [dBuV]	MACHING TR. FACTOR [dB]	RESULT [dB]	LIMIT [dBuV]	MARGIN [dB]
3	56.75	42.1	7.8	49.9	56.5	6.6
	65.75	42.2	7.8	50.0	56.5	6.5
4	62.75	42.4	7.8	50.2	56.5	6.3
	71.75	41.5	7.8	49.3	56.5	7.2

A2-20

RF OUTPUT LEVEL

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

COMPANY : ORION ELECTRIC CO.,LTD.
EQUIPMENT : VIDEO CASSETTE RECORDER
MODEL No. : W501
POWER : AC120V/60Hz
DESCRIPTION : PLAYBACK MODE

REPORT No. : 19D0031-04-1
REGULATION : FCC Part 15 Subpart B
DATE : May 2, 2000

ENGINEER

: HISAYUKI. KIOKA

Video Signal

CH.	FREQ [MHz]	METER READING [dBuV]	MACHING TR. FACTOR [dB]	RESULT [dB]	LIMIT [dBuV]	MARGIN [dB]
3	61.25	56.5	7.8	64.3	69.5	5.2
4	67.25	56.1	7.8	63.9	69.5	5.6

Audio Signal

CH.	FREQ [MHz]	METER READING [dBuV]	MACHING TR. FACTOR [dB]	RESULT [dB]	LIMIT [dBuV]	MARGIN [dB]
3	56.75	41.8	7.8	49.6	56.5	6.9
	65.75	41.7	7.8	49.5	56.5	7.0
4	62.75	41.9	7.8	49.7	56.5	6.8
	71.75	41.5	7.8	49.3	56.5	7.2

A2-21

SPURIOUS FROM RF OUTPUT PORTA-PEX INTERNATIONAL CO., LTD.
Kanto Office EMC Lab.

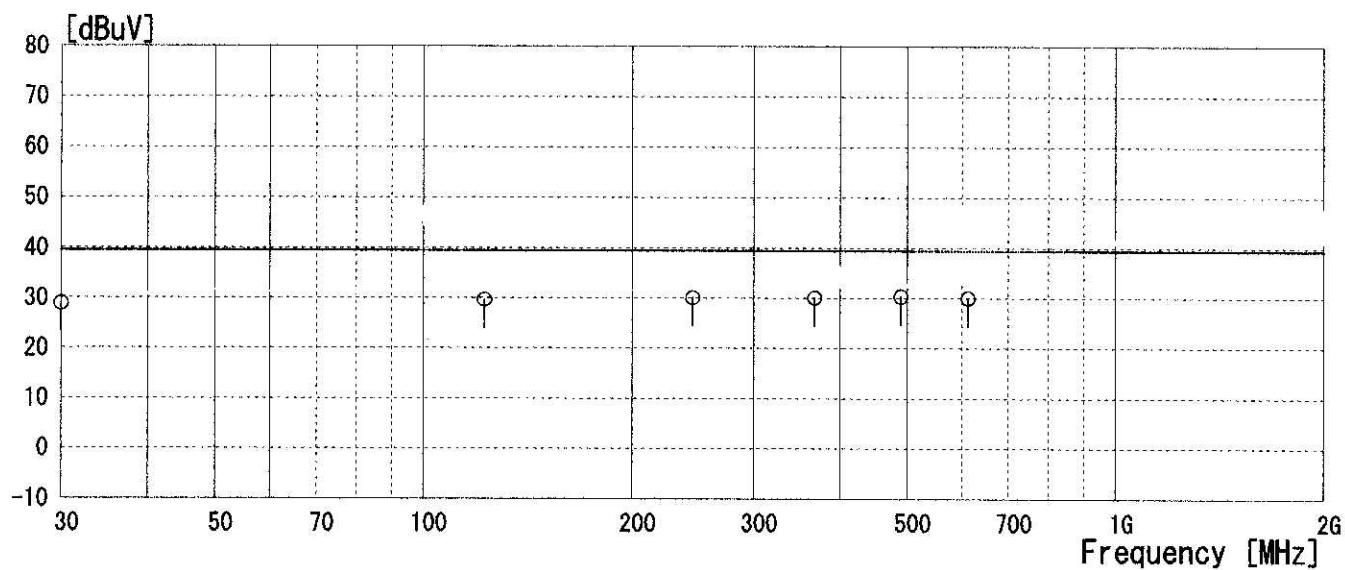
COMPANY : ORION ELECTRIC CO., LTD.
 EQUIPMENT : VIDEO CASSETTE RECORDER
 MODEL NAME : W501
 OPERATION MODE : PLAYBACK MODE
 PORT : RF OUTPUT TERMINAL
 POWER : AC120V/50Hz
 REMARKS : 3CH

REPORT No. : 19D0031-04-1
 DATE : MAY 2, 2000
 REGULATION : FCC PART15 SUBPART B
 TEST No. : 1

[Signature]
 TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	30.000	21.0	—	7.9	28.9	—	39.5	—	10.6	—
2	122.500	21.4	—	8.2	29.6	—	39.5	—	9.9	—
3	245.000	21.5	—	8.6	30.1	—	39.5	—	9.4	—
4	367.500	21.3	—	8.8	30.1	—	39.5	—	9.4	—
5	490.000	21.4	—	8.9	30.3	—	39.5	—	9.2	—
6	612.500	20.9	—	9.2	30.1	—	39.5	—	9.4	—

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



SPURIOUS FROM RF OUTPUT PORT

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

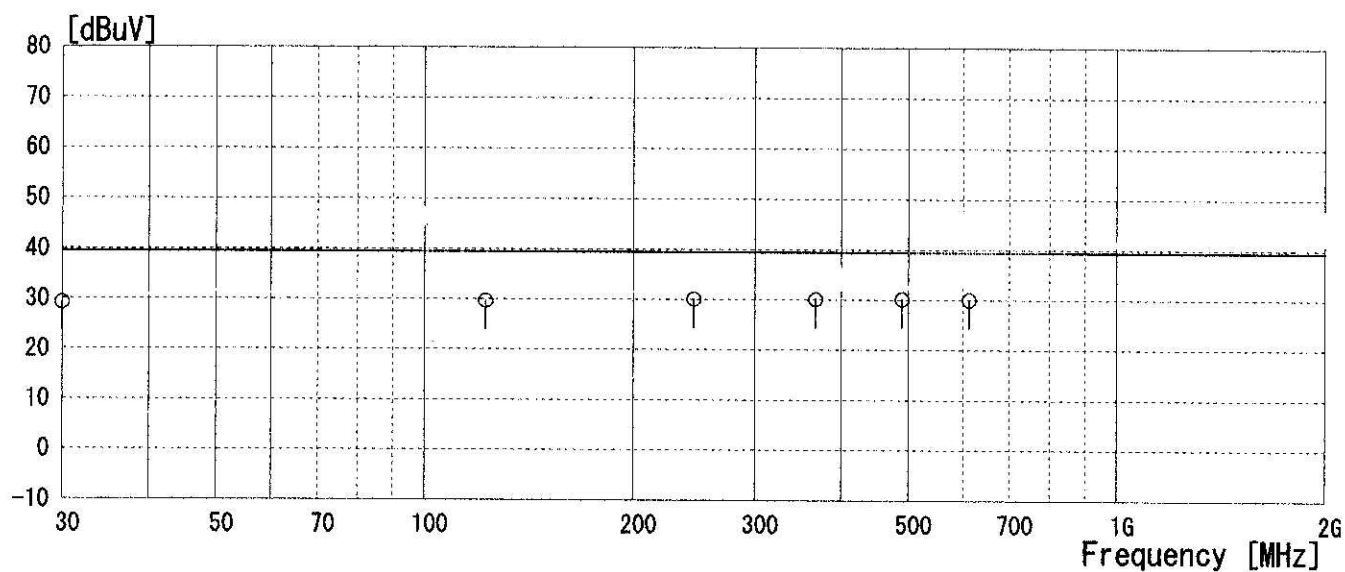
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : VIDEO CASSETTE RECORDER
MODEL NAME : W501
OPERATION MODE : REC MODE
PORT : RF OUTPUT TERMINAL
POWER : AC120V/50Hz
REMARKS : 3CH (1Vp-p)

REPORT No. : 19D0031-04-1
DATE : MAY 2, 2000
REGULATION : FCC PART15 SUBPART B
TEST No. : 2

TEST ENGINEER: H. SAYUKI KIORA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	30.000	21.3	—	7.9	29.2	—	39.5	—	10.3	—
2	122.500	21.4	—	8.2	29.6	—	39.5	—	9.9	—
3	245.000	21.5	—	8.6	30.1	—	39.5	—	9.4	—
4	367.500	21.3	—	8.8	30.1	—	39.5	—	9.4	—
5	490.000	21.2	—	8.9	30.1	—	39.5	—	9.4	—
6	612.500	20.9	—	9.2	30.1	—	39.5	—	9.4	—

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



SPURIOUS FROM RF OUTPUT PORTA-PEX INTERNATIONAL CO., LTD.
Kanto Office EMC Lab.

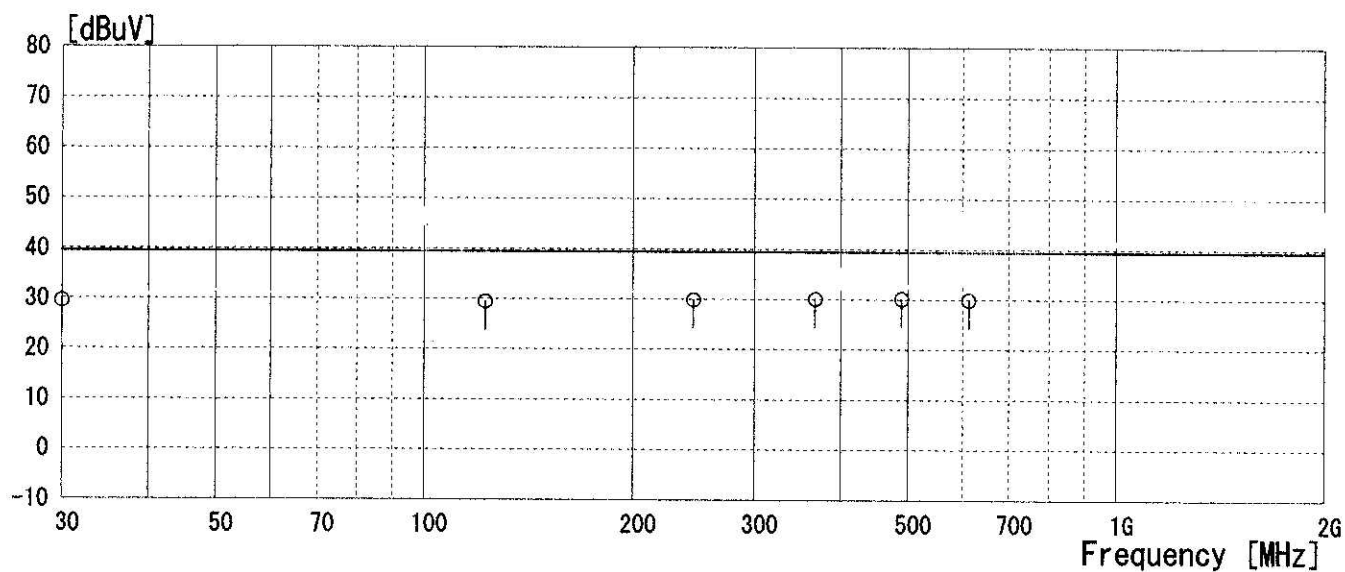
COMPANY : ORION ELECTRIC CO., LTD.
 EQUIPMENT : VIDEO CASSETTE RECORDER
 MODEL NAME : W501
 OPERATION MODE : REC MODE
 PORT : RF OUTPUT TERMINAL
 POWER : AC120V/50Hz
 REMARKS : 3CH (5Vp-p)

REPORT No. : 19D0031-04-1
 DATE : MAY 2, 2000
 REGULATION : FCC PART15 SUBPART B
 TEST No. : 3

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	30.000	21.6	—	7.9	29.5	—	39.5	—	10.0	—
2	122.500	21.2	—	8.2	29.4	—	39.5	—	10.1	—
3	245.000	21.3	—	8.6	29.9	—	39.5	—	9.6	—
4	367.500	21.3	—	8.8	30.1	—	39.5	—	9.4	—
5	490.000	21.2	—	8.9	30.1	—	39.5	—	9.4	—
6	612.500	20.8	—	9.2	30.0	—	39.5	—	9.5	—

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



A2-24

SPURIOUS FROM RF OUTPUT PORTA-PEX INTERNATIONAL CO., LTD.
Kanto Office EMC Lab.

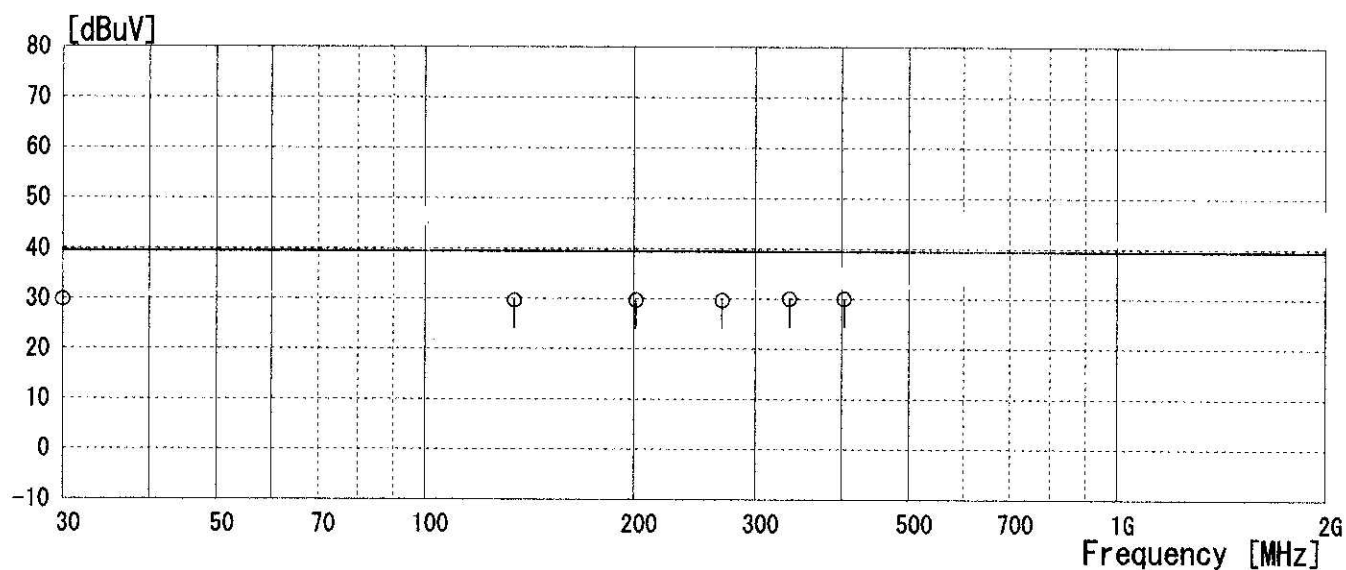
COMPANY : ORION ELECTRIC CO., LTD.
 EQUIPMENT : VIDEO CASSETTE RECORDER
 MODEL NAME : W501
 OPERATION MODE : REC MODE
 PORT : RF OUTPUT TERMINAL
 POWER : AC120V/50Hz
 REMARKS : 4CH (1Vp-p)

REPORT No. : 19D0031-04-1
 DATE : MAY 2, 2000
 REGULATION : FCC PART15 SUBPART B
 TEST No. : 5

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	30.000	21.9	—	7.9	29.8	—	39.5	—	9.7	—
2	134.500	21.4	—	8.3	29.7	—	39.5	—	9.8	—
3	201.750	21.2	—	8.5	29.7	—	39.5	—	9.8	—
4	269.000	21.1	—	8.6	29.7	—	39.5	—	9.8	—
5	336.250	21.3	—	8.7	30.0	—	39.5	—	9.5	—
6	403.500	21.2	—	8.8	30.0	—	39.5	—	9.5	—

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



A2-25

SPURIOUS FROM RF OUTPUT PORTA-PEX INTERNATIONAL CO., LTD.
Kanto Office EMC Lab.

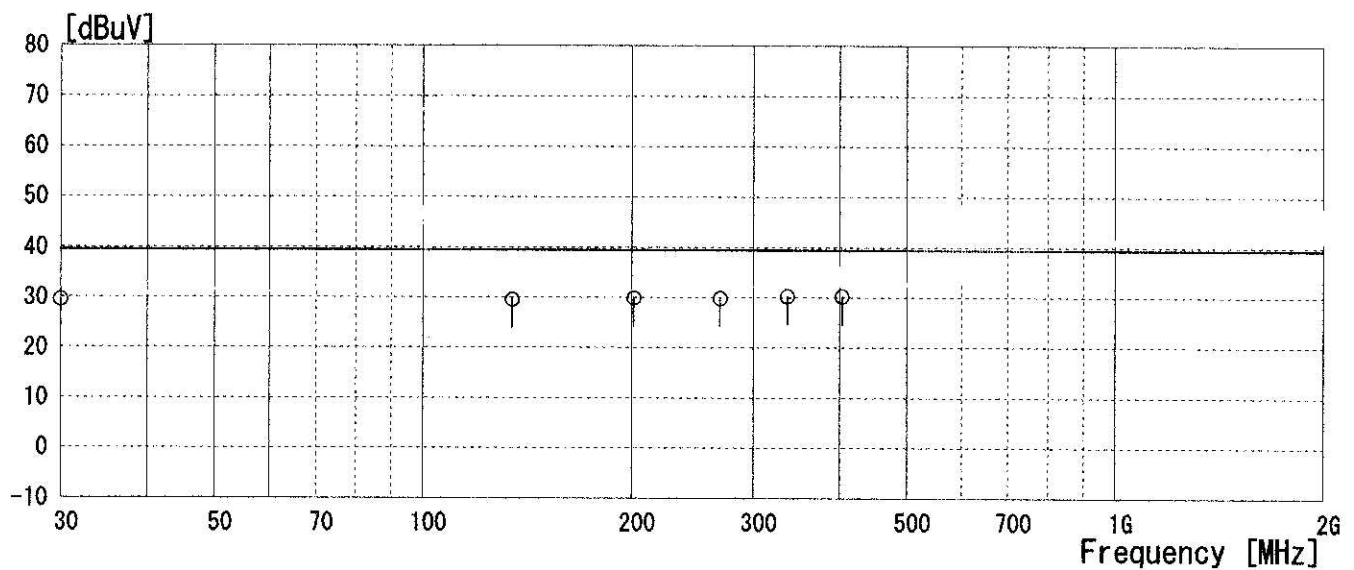
COMPANY : ORION ELECTRIC CO., LTD.
 EQUIPMENT : VIDEO CASSETTE RECORDER
 MODEL NAME : W501
 OPERATION MODE : REC MODE
 PORT : RF OUTPUT TERMINAL
 POWER : AC120V/50Hz
 REMARKS : 4CH (5Vp-p)

REPORT No. : 19D0031-04-1
 DATE : MAY 2, 2000
 REGULATION : FCC PART15 SUBPART B
 TEST No. : 4

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	30.000	21.6	—	7.9	29.5	—	39.5	—	10.0	—
2	134.500	21.3	—	8.3	29.6	—	39.5	—	9.9	—
3	201.750	21.4	—	8.5	29.9	—	39.5	—	9.6	—
4	269.000	21.2	—	8.6	29.8	—	39.5	—	9.7	—
5	336.250	21.5	—	8.7	30.2	—	39.5	—	9.3	—
6	403.500	21.4	—	8.8	30.2	—	39.5	—	9.3	—

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



SPURIOUS FROM RF OUTPUT PORTA-PEX INTERNATIONAL CO., LTD.
Kanto Office EMC Lab.

COMPANY : ORION ELECTRIC CO., LTD.
 EQUIPMENT : VIDEO CASSETTE RECORDER
 MODEL NAME : W501
 OPERATION MODE : PLAYBACK MODE
 PORT : RF OUTPUT TERMINAL
 POWER : AC120V/50Hz
 REMARKS : 4CH

REPORT No. : 19D0031-04-1
 DATE : MAY 2, 2000
 REGULATION : FCC PART15 SUBPART B
 TEST No. : 6

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	30.000	21.7	—	7.9	29.6	—	39.5	—	9.9	—
2	134.500	21.3	—	8.3	29.6	—	39.5	—	9.9	—
3	201.750	21.2	—	8.5	29.7	—	39.5	—	9.8	—
4	269.000	21.3	—	8.6	29.9	—	39.5	—	9.6	—
5	336.250	21.5	—	8.7	30.2	—	39.5	—	9.3	—
6	403.500	21.2	—	8.8	30.0	—	39.5	—	9.5	—

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

