

DATA OF RADIATION TEST

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

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : VRDVD4100BA
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 26CE0157-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2005/10/21
TEMP./HUMID. : 24deg.C / 42%
ENGINEER : Masaya Minami

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[QP]		[dB]			
VHF																	
2	101	23.3	22.7			BC	-9.8	13.5	12.9			43.5		30.0	30.6		
	202					BC						43.5		>15.0			
	303					LO						46.0					
	404					LO						46.0					
	505					LO						46.0					
	606					LO						46.0					
	707					LO						46.0					
	808					LO						46.0					
	909					LO						46.0					
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)						
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.						
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]					
	1010					HO						74.0	54.0	>27.0	>10.0		
	1111					HO						74.0	54.0				
	1212					HO						74.0	54.0				
	1313					HO						74.0	54.0				
	1414					HO						74.0	54.0				
1515	HO					74.0						54.0					
1616	HO	74.0	54.0														
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[QP]		[dB]			
3	107	22.3	22.8			BC	-8.9	13.4	13.9			43.5		30.1	29.6		
	214					BC						43.5		>15.0			
	321					LO						46.0					
	428					LO						46.0					
	535					LO						46.0					
	642					LO						46.0					
	749					LO						46.0					
	856					LO						46.0					
	963					LO						54.0					
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)						
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.						
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]					
	1070					HO						74.0	54.0	>27.0	>10.0		
	1177					HO						74.0	54.0				
	1284					HO						74.0	54.0				
	1391					HO						74.0	54.0				
	1498					HO						74.0	54.0				
1605	HO					74.0						54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[QP]		[dB]			
4	113	21.8	24.1			BC	-7.9	13.9	16.2			43.5		29.6	27.3		
	226					BC						46.0		>15.0			
	339					LO						46.0					
	452					LO						46.0					
	565					LO						46.0					
	678					LO						46.0					
	791					LO						46.0					
	904					LO						46.0					
						READING(PK)						READING(AV)					
		HOR. VER.	HOR. VER.	TYPE	[dBuV]	HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.						
		[dBuV]	[dBuV]			[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]					
	1017					HO						74.0	54.0	>27.0	>10.0		
	1130					HO						74.0	54.0				
	1243					HO						74.0	54.0				
	1356					HO						74.0	54.0				
	1469					HO						74.0	54.0				
	1582					HO						74.0	54.0				

DATA OF RADIATION TEST

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

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : 26 inch TV
MODEL No. : 26AF45C
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25LE0142-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2005/10/21
TEMP/HUMID. : 24deg.C / 42%
ENGINEER : Masaya Minami

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]	[dB]		
VHF																	
5	123	21.6	21.5			BC	-6.5	15.1	15.0			43.5		28.4	28.5		
	246					BC						46.0		>15.0			
	369					LO						46.0					
	492					LO						46.0					
	615					LO						46.0					
	738					LO						46.0					
	861					LO						46.0					
	984	LO	54.0														
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1107					HO					74.0	54.0	>27.0	>10.0			
	1230					HO					74.0	54.0					
	1353					HO					74.0	54.0					
1476	HO					74.0					54.0						
1599	HO	74.0	54.0														
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]		[dB]	
6	129	21.6	22.2			BC	-6.2	15.4	16.0			43.5		28.1	27.5		
	258					BC						46.0		>15.0			
	387					LO						46.0					
	516					LO						46.0					
	645					LO						46.0					
	774					LO						46.0					
	903					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1032					HO					74.0	54.0	>27.0	>10.0			
	1161					HO					74.0	54.0					
	1290					HO					74.0	54.0					
	1419					HO					74.0	54.0					
1548	HO					74.0					54.0						
1677	HO					74.0					54.0						
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]		[dB]	
7	221	21.2	21.1			BC	-2.1	19.1	19.0			46.0		26.9	27.0		
	442					LO						46.0		>15.0			
	663					LO						46.0					
	884					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1105					HO						74.0	54.0	>27.0	>10.0		
1326	HO					74.0						54.0					
1547	HO					74.0						54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR. VER.				TYPE	[dBuV]	HOR. VER.				[QP]		HOR. VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]		[dB]	
8	227	21.1	21.1			BC	-2.1	19.0	19.0			46.0		27.0	27.0		
	454					LO						46.0		>15.0			
	681					LO						46.0					
	908					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1135					HO						74.0	54.0	>27.0	>10.0		
1362	HO					74.0						54.0					
1589	HO					74.0						54.0					

DATA OF RADIATION TEST

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

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : VRDVD4100BA
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25LE012-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2005/10/21
TEMP./HUMID. : 24deg.C / 42%
ENGINEER : Masaya Minami

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)					
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.					
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]				
VHF																	
9	233	21.5	21.3			BC	-1.9	19.6	19.4			46.0		26.4	26.6		
	466					LO						46.0		>15.0			
	699									46.0							
	932									46.0							
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1165					HO						74.0	54.0	>27.0		>10.0	
1398				HO		74.0	54.0										
1631				HO		74.0	54.0										
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)					
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.					
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]				
10	239	21.3	21.1			BC	-1.7	19.6	19.4			46.0		26.4	26.6		
	478					LO						46.0		>15.0			
	717									46.0							
	956									46.0							
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1195					HO						74.0	54.0	>27.0		>10.0	
1434				HO		74.0	54.0										
1673				HO		74.0	54.0										
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)					
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.					
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]				
11	245	21.2	21.5			BC	-1.6	19.6	19.9			46.0		26.4	26.1		
	490					LO						46.0		>15.0			
	735									46.0							
	980									54.0							
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1225					HO						74.0	54.0	>27.0		>10.0	
1470				HO		74.0	54.0										
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)					
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.					
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]				
12	251	22.1	21.7			BC	-1.4	20.7	20.3			46.0		25.3	25.7		
	502					LO						46.0		>15.0			
	753									46.0							
										54.0							
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1004					HO						74.0	54.0	>27.0		>10.0	
1255				HO		74.0	54.0										
1506				HO		74.0	54.0										
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)					
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.					
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]				
13	257	22.2	22.1			BC	-1.0	21.2	21.1			46.0		24.8	24.9		
	514					LO						46.0		>15.0			
	771									46.0							
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1028					HO						74.0	54.0	>27.0		>10.0	
1285				HO		74.0	54.0										
1542				HO		74.0	54.0										
	READING(QP)		READING(AV)		ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)					
	HOR. VER.		HOR. VER.		TYPE		HOR. VER.			[QP]		HOR. VER.					
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	

DATA OF RADIATION TEST

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

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EQUIPMENT : DVD/VCR
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DESCRIPTION : TV Reception + Rec

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CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
UHF											
14	517	26.5	28.9		LO	3.2	29.7	32.1		46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1034			HO				74.0	54.0	>27.0	>10.0
	1551			HO				74.0	54.0		
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
19	547	25.1	24.7		LO	3.5	28.6	28.2		46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1094			HO				74.0	54.0	>27.0	>10.0
	1641			HO				74.0	54.0		
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
28	601	24.4	27.2		LO	4.4	28.8	31.6		46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1202			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
36	649	24.6	24.5		LO	5.2	29.8	29.7		46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1298			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
44	697	22.3	22.9		LO	5.9	28.2	28.8		46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1394			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
53	751	23.5	26.7		LO	7.6	31.1	34.3		46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1502			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
61	799	24.5	25.6		LO	9.2	33.7	34.8		46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1598			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
69	847	25.4	29.2		LO	9.6	35.0	38.8		46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1694			HO				74.0	54.0	>27.0	>10.0

DATA OF RADIATION TEST

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

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : VRDVD4100BA
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 25LE0142-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2005/10/21
TEMP./HUMID. : 24deg.C / 42%
ENGINEER : Masaya Minami

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]				ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]				LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB] [dB]					
CATV																			
1	119	21.8	21.9			BC	-7.0	14.8	14.9			43.5		28.7	28.6				
	238					BC						46.0		>15.0					
	357					LO						46.0							
	476					LO						46.0							
	595					LO						46.0							
	714					LO						46.0							
	833					LO						46.0							
	952	LO	46.0																
		READING(PK) HOR. VER. [dBuV]		READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]		RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB] [dB]		MARGIN(AV) HOR. VER. [dB] [dB]			
	1071					HO						74.0	54.0	>27.0		>10.0			
1190	HO					74.0						54.0							
1309	HO					74.0						54.0							
1428	HO					74.0						54.0							
1547	HO					74.0						54.0							
1666	HO					74.0						54.0							
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]				ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]				LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB] [dB]					
95	137	21.5	21.6			BC	-5.5	16.0	16.1			43.5		27.5	27.4				
	274					BC						46.0		>15.0					
	411					LO						46.0							
	548					LO						46.0							
	685					LO						46.0							
	822					LO						46.0							
	959					LO						46.0							
		READING(PK) HOR. VER. [dBuV]		READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]		RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB] [dB]		MARGIN(AV) HOR. VER. [dB] [dB]			
	1096					HO						74.0	54.0	>27.0		>10.0			
	1233					HO						74.0	54.0						
1370	HO					74.0						54.0							
1507	HO					74.0						54.0							
1644	HO					74.0						54.0							
	HO					74.0						54.0							
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]				ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]				LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB] [dB]					
97	149	22.1	22.3			BC	-4.8	17.3	17.5			43.5		26.2	26.0				
	298					BC						46.0		>15.0					
	447					LO						46.0							
	596					LO						46.0							
	745					LO						46.0							
	894					LO						46.0							
						READING(PK) HOR. VER. [dBuV]						READING(AV) HOR. VER. [dBuV]						ANT TYPE	C.Factor [dBuV]
	1043					HO						-	-	74.0	54.0	>27.0		>10.0	
	1192					HO						-	-	74.0	54.0				
	1341					HO						-	-	74.0	54.0				
1490	HO					-						-	74.0	54.0					
1639	HO					-						-	74.0	54.0					
	HO					-						-	74.0	54.0					
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]				ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]				LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB] [dB]					
99	161	21.5	22.0			BC	-4.2	17.3	17.8			43.5		26.2	25.7				
	322					LO						46.0		>15.0					
	483					LO						46.0							
	644					LO						46.0							
	805					LO						46.0							
	966					LO						46.0							
						READING(PK) HOR. VER. [dBuV]						READING(AV) HOR. VER. [dBuV]						ANT TYPE	C.Factor [dBuV]
	1127					HO						74.0	54.0	>27.0		>10.0			
	1288					HO						74.0	54.0						
	1449					HO						74.0	54.0						
1610	HO					74.0						54.0							

DATA OF RADIATION TEST

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

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : VRDVD4100BA
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 26CE0157-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2005/10/21
TEMP./HUMID. : 24deg.C / 42%
ENGINEER : Masaya Minami

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]	HOR.	VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]			
CATV																	
14	167	21.6	21.6			BC	-3.8	17.8	17.8			43.5		25.7	25.7		
	334					LO						46.0	>15.0				
	501					LO						46.0					
	668					LO						46.0					
	835					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1002					HO						74.0	54.0	>27.0	>10.0		
	1169					HO						74.0	54.0				
1336	HO						74.0					54.0					
1503	HO						74.0					54.0					
1670	HO						74.0					54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]	HOR.	VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]			
18	191	21.7	21.9			BC	-2.8	18.9	19.1			43.5		24.6	24.4		
	382					LO						46.0	>15.0				
	573					LO						46.0					
	764					LO						46.0					
	955					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1146					HO						74.0	54.0	>27.0	>10.0		
	1337					HO						74.0	54.0				
1528	HO						74.0					54.0					
	HO						74.0					54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]	HOR.	VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]			
22	215	21.9	21.3			BC	-2.4	19.5	18.9			43.5		24.0	24.6		
	430					LO						46.0	>15.0				
	645					LO						46.0					
	860					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1075					HO						74.0	54.0	>27.0	>10.0		
	1290					HO						74.0	54.0				
	1505					HO						74.0	54.0				
	HO						74.0					54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]	HOR.	VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]			
23	263	20.9	20.9			BC	-0.6	20.3	20.3			46.0	46.0	25.7	25.7		
	526					LO						46.0	46.0	>15.0			
	789					LO						46.0					
						LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)			MARGIN(AV)
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1052					HO						74.0	54.0	>27.0	>10.0		
	1315					HO						74.0	54.0				
	1578					HO						74.0	54.0				
	HO						74.0					54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]	HOR.	VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]			
29	299	21.0	21.2			BC	1.9	22.9	23.1			46.0	46.0	23.1	22.9		
	598					LO						46.0	46.0	>15.0			
	897					LO						46.0					
						LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)			MARGIN(AV)
		HOR.	VER.	HOR.	VER.	TYPE	[dBuV]	HOR.	VER.	HOR.	VER.	[PK]	[AV]	HOR.	VER.	VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
1196					HO						74.0	54.0	>27.0	>10.0			
1495					HO						74.0	54.0					

DATA OF RADIATION TEST

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

COMPANY : Orion Electric Co.,Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : VRDVD4100BA
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 26CE0157-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : 2005/10/21
TEMP/HUMID. : 24deg.C / 42%
ENGINEER : Masaya Minami

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
CATV														
36	341	21.6	21.1		LO	-0.2	21.4	20.9		46.0	46.0	24.6	25.1	
	682				LO					46.0	46.0	>15.0		
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1023				HO					74.0	54.0	>27.0		>10.0
	1364				HO					74.0	54.0			
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
37	347	22.1	21.1		LO	-0.1	22.0	21.0		46.0	46.0	24.0	25.0	
	694				LO					46.0	46.0	>15.0		
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1041				HO					74.0	54.0	>27.0		>10.0
	1388				HO					74.0	54.0			
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
65	515	24.6	25.3		LO	3.1	27.7	28.4		46.0	46.0	18.3	17.6	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1030				HO					74.0	54.0	>27.0		>10.0
	1545				HO					74.0	54.0			
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
94	689	25.6	19.7		LO	5.8	31.4	25.5		46.0	46.0	14.6	20.5	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1378				HO					74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
100	695	24.5	22.5		LO	5.9	30.4	28.4		46.0	46.0	15.6	17.6	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1390				HO					74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
113	773	22.9	23.1		LO	8.3	31.2	31.4		46.0	46.0	14.8	14.6	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1546				HO					74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]		
125	845	27.7	26.8		LO	9.6	37.3	36.4		46.0	46.0	8.7	9.6	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1690				HO					74.0	54.0	>27.0		>10.0

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 0dBmV
Date : 11/1/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 51 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	945.01	BB	22.9	24.1	26.1	27.1	7.8	6.0	35.7	36.9	46.0	10.3	9.1

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

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

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

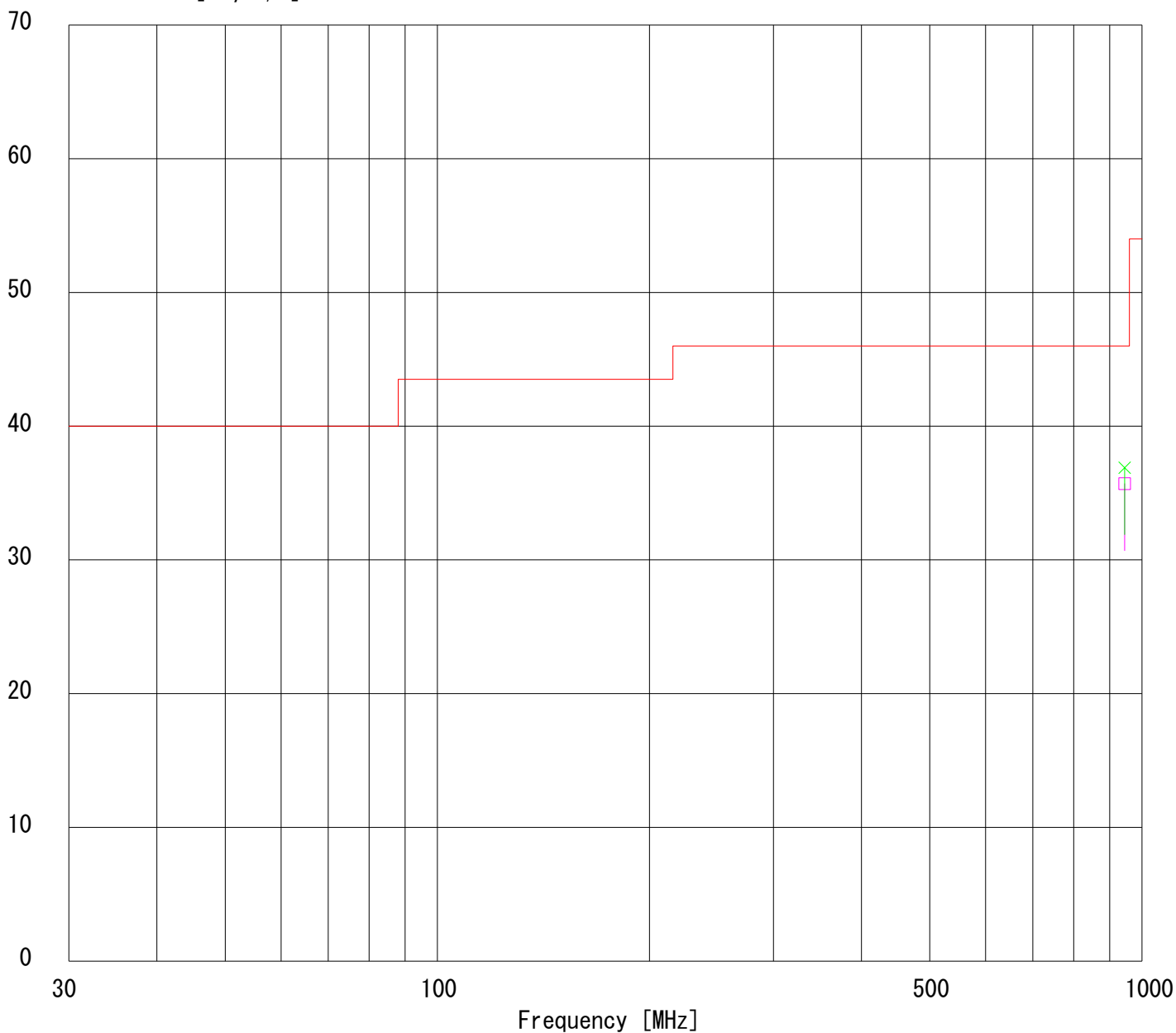
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 0dBmV
Date : 11/1/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 51 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 25dBmV
Date : 11/2/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 55 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.01	BB	26.0	27.0	14.4	27.9	2.4	5.8	20.7	21.7	43.5	22.8	21.8
2.	189.01	BB	32.3	34.7	16.7	27.9	3.0	5.8	29.9	32.3	43.5	13.6	11.2
3.	202.52	BB	37.0	33.8	17.1	27.8	3.1	5.8	35.2	32.0	43.5	8.3	11.5
4.	270.01	BB	30.2	26.5	18.5	27.8	3.7	5.8	30.4	26.7	46.0	15.6	19.3
5.	337.52	BB	36.7	36.8	17.1	27.9	4.2	5.9	36.0	36.1	46.0	10.0	9.9
6.	540.02	BB	31.4	36.2	19.8	27.9	5.5	5.9	34.7	39.5	46.0	11.3	6.5
7.	675.02	BB	28.1	28.9	22.0	27.3	6.3	5.9	35.0	35.8	46.0	11.0	10.2
8.	945.01	BB	22.7	24.1	26.1	27.1	7.8	6.0	35.5	36.9	46.0	10.5	9.1

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

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

DATA OF RADIATION TEST

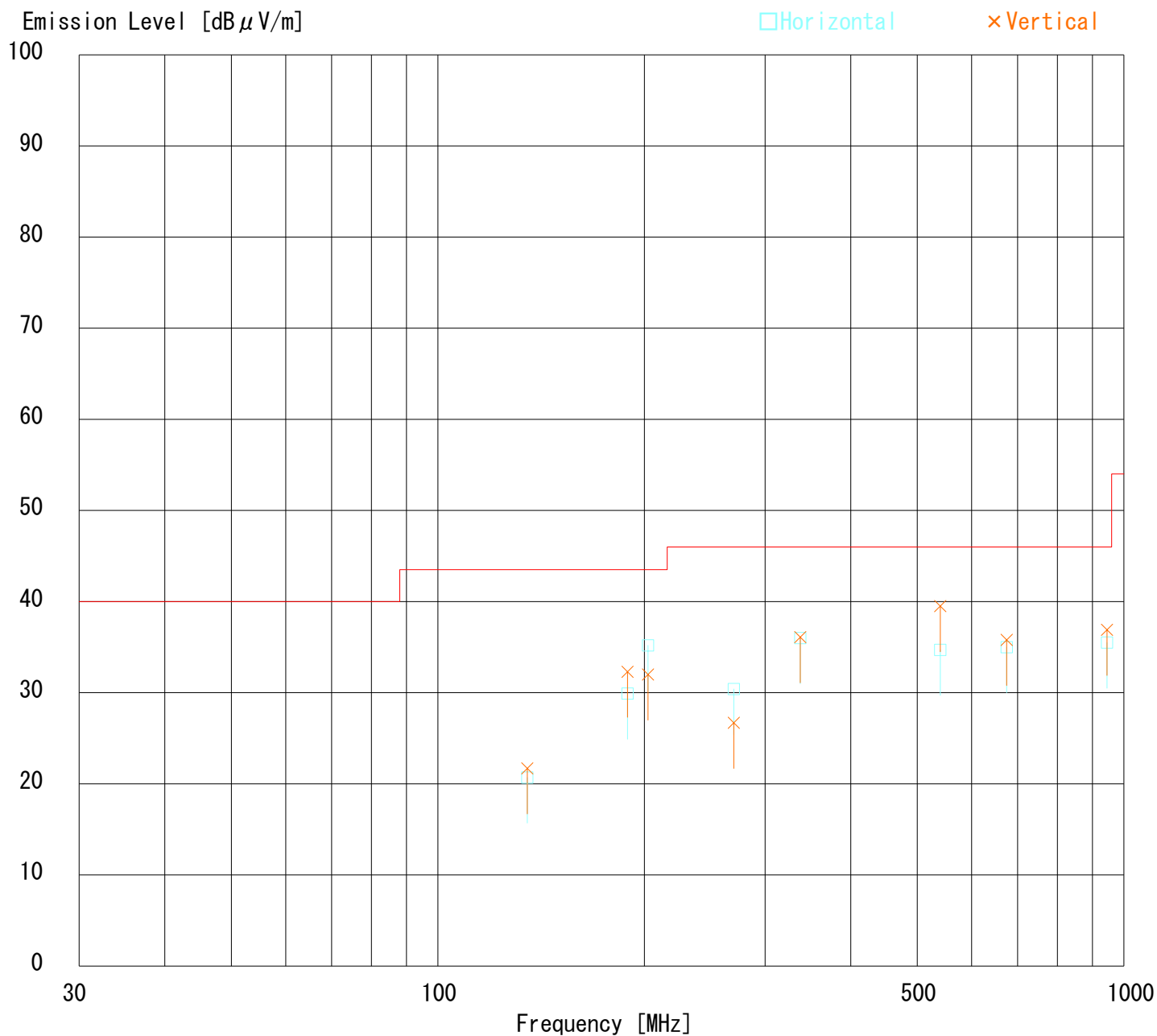
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 25dBmV
Date : 11/2/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 55 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 25dBmV
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1143.77	BB	51.2	53.1	24.6	39.8	3.5	0.0	39.5	41.4	74.0	34.5	32.6
2.	1755.06	BB	50.1	52.0	27.6	38.8	4.5	0.0	43.4	45.3	74.0	30.6	28.7

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

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

DATA OF RADIATION TEST

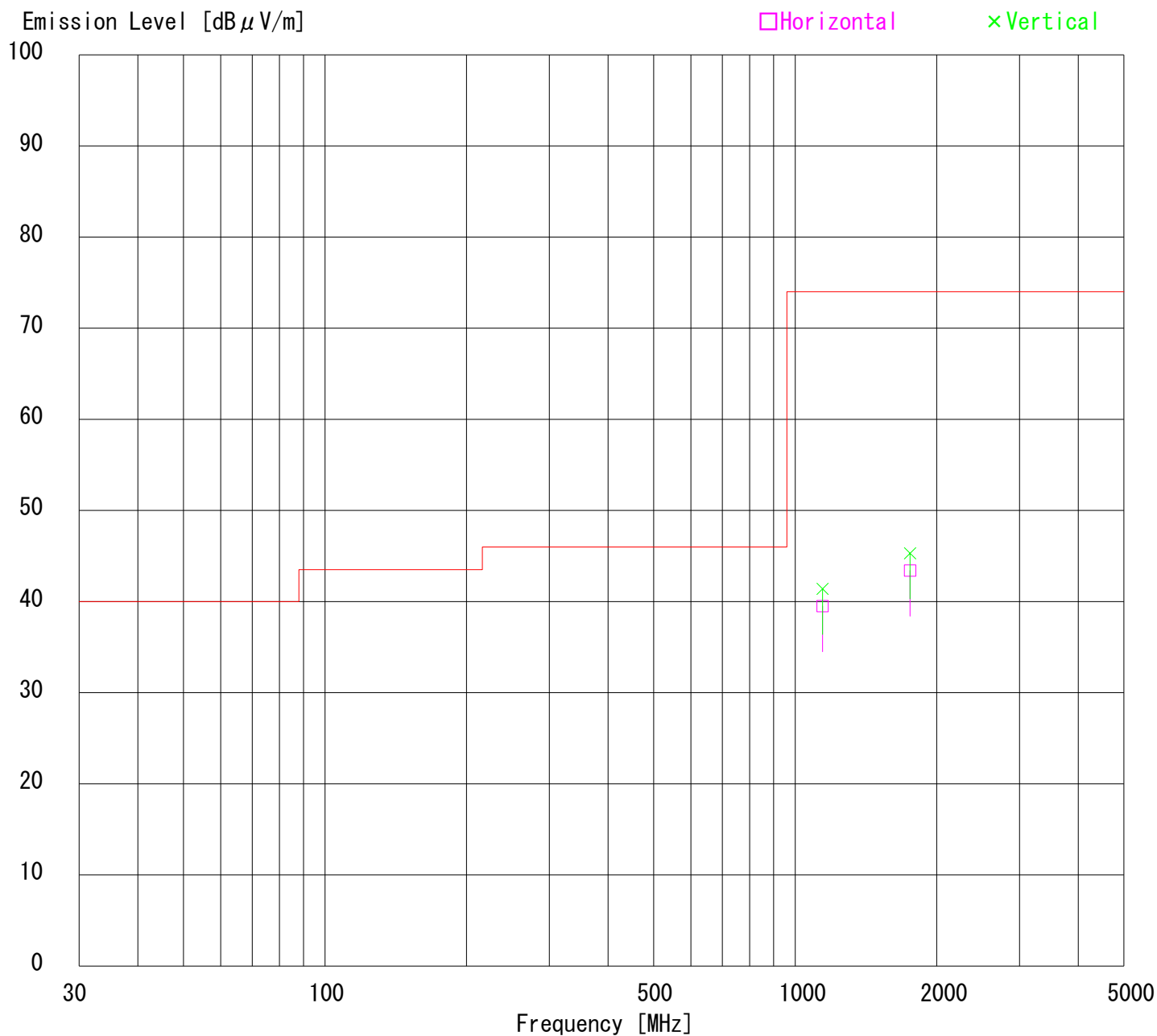
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 25dBmV
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Masaya Minami



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 25dBmV
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1143.77	BB	36.4	36.5	24.6	39.8	3.5	0.0	24.7	24.8	54.0	29.3	29.2
2.	1755.06	BB	43.2	44.4	27.6	38.8	4.5	0.0	36.5	37.7	54.0	17.5	16.3

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

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

DATA OF RADIATION TEST

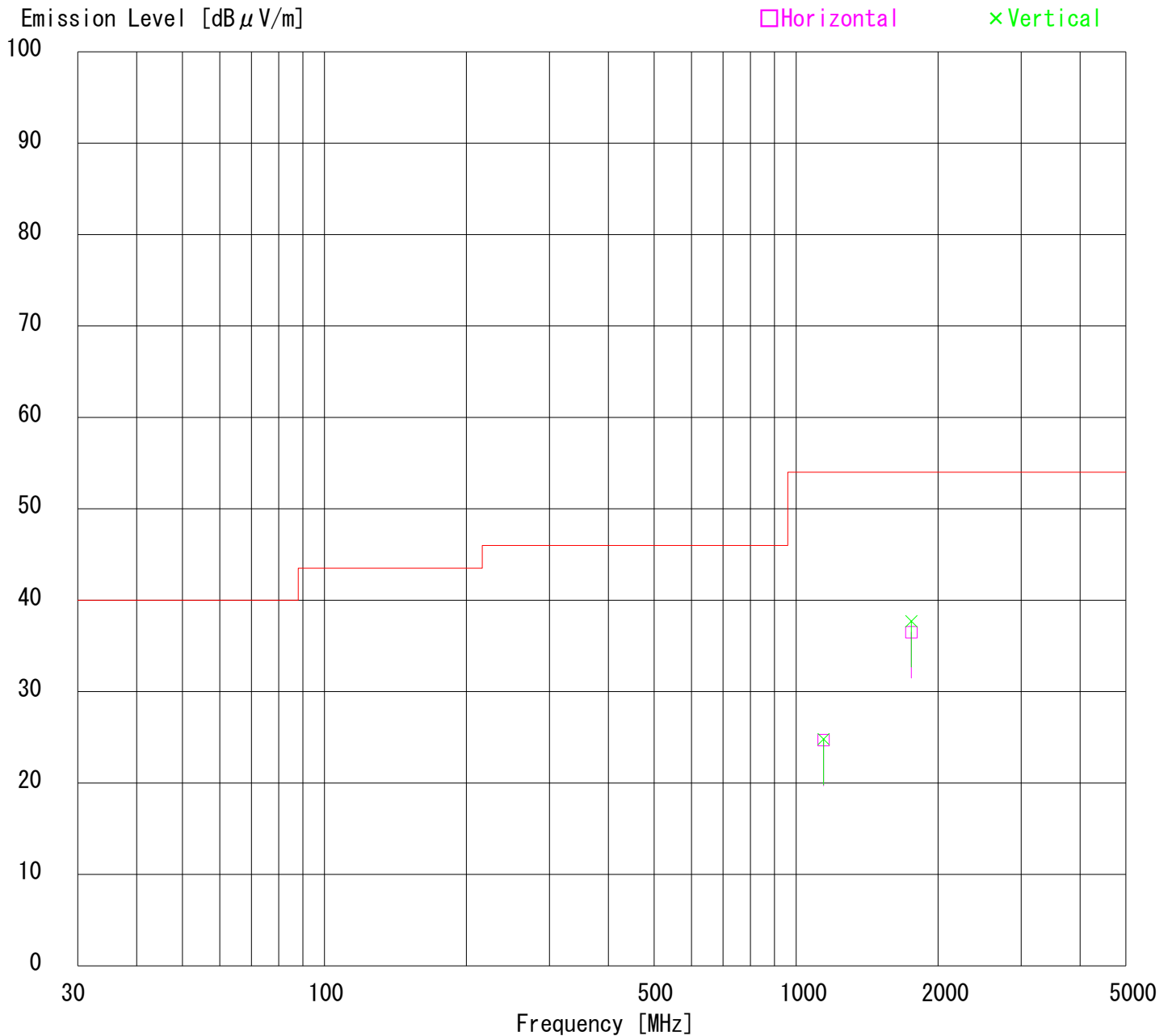
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 25dBmV
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Masaya Minami



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1
Remarks : 1Vp-p
Date : 11/1/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 53 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	945.01	BB	22.0	24.8	26.1	27.1	7.8	6.0	34.8	37.6	46.0	11.2	8.4

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

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

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

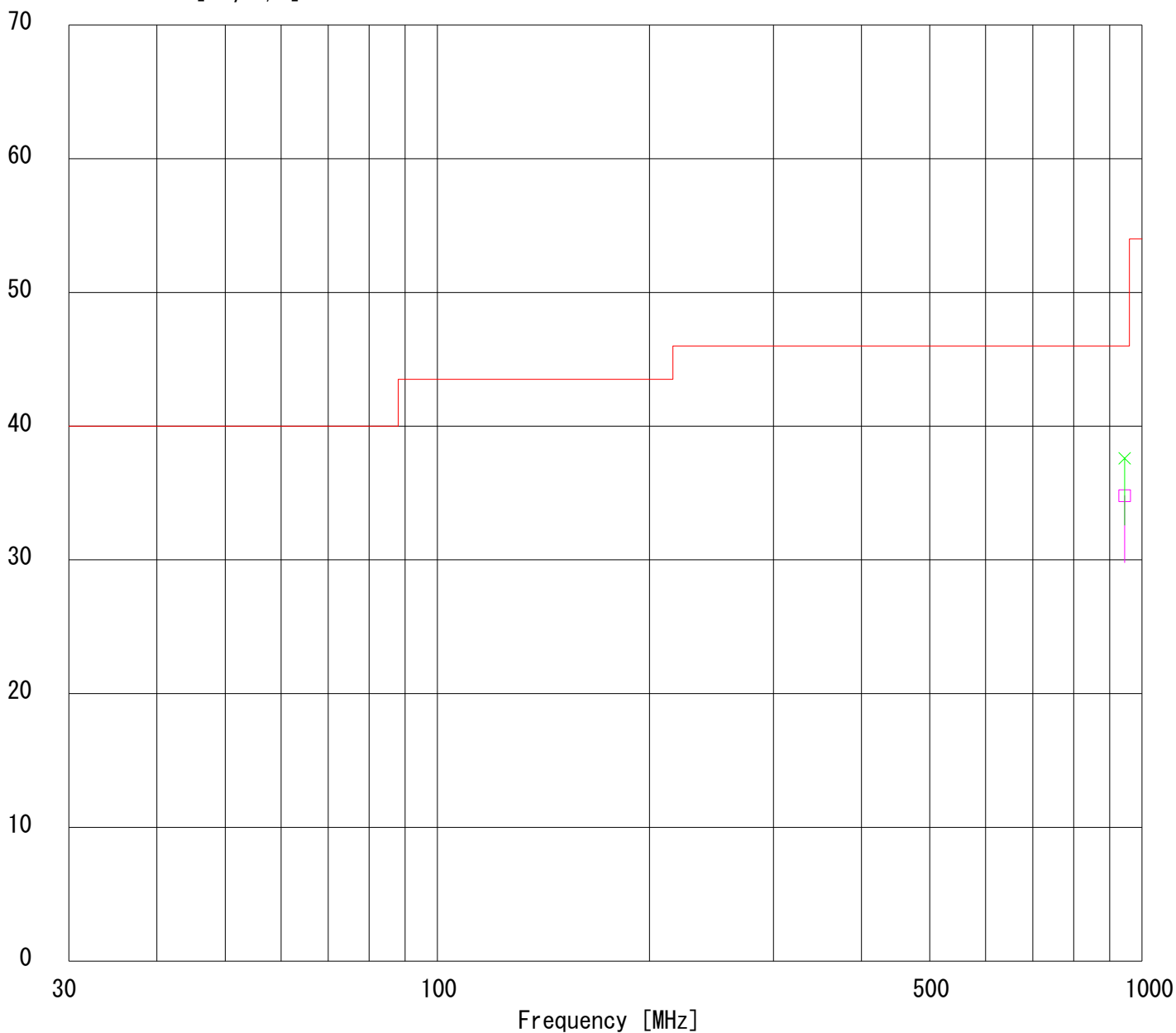
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1
Remarks : 1Vp-p
Date : 11/1/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 53 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1
Remarks : 5Vp-p
Date : 11/2/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 55 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.02	BB	28.0	30.4	14.4	27.9	2.4	5.8	22.7	25.1	43.5	20.8	18.4
2.	189.00	BB	31.7	32.0	16.7	27.9	3.0	5.8	29.3	29.6	43.5	14.2	13.9
3.	202.51	BB	39.1	33.1	17.1	27.8	3.1	5.8	37.3	31.3	43.5	6.2	12.2
4.	270.02	BB	30.8	28.7	18.5	27.8	3.7	5.8	31.0	28.9	46.0	15.0	17.1
5.	337.50	BB	37.8	34.5	17.1	27.9	4.2	5.9	37.1	33.8	46.0	8.9	12.2
6.	516.13	BB	30.7	33.0	19.6	28.0	5.4	5.9	33.6	35.9	46.0	12.4	10.1
7.	540.02	BB	29.8	34.7	19.8	27.9	5.5	5.9	33.1	38.0	46.0	12.9	8.0
8.	945.02	BB	22.1	25.0	26.1	27.1	7.8	6.0	34.9	37.8	46.0	11.1	8.2

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

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

DATA OF RADIATION TEST

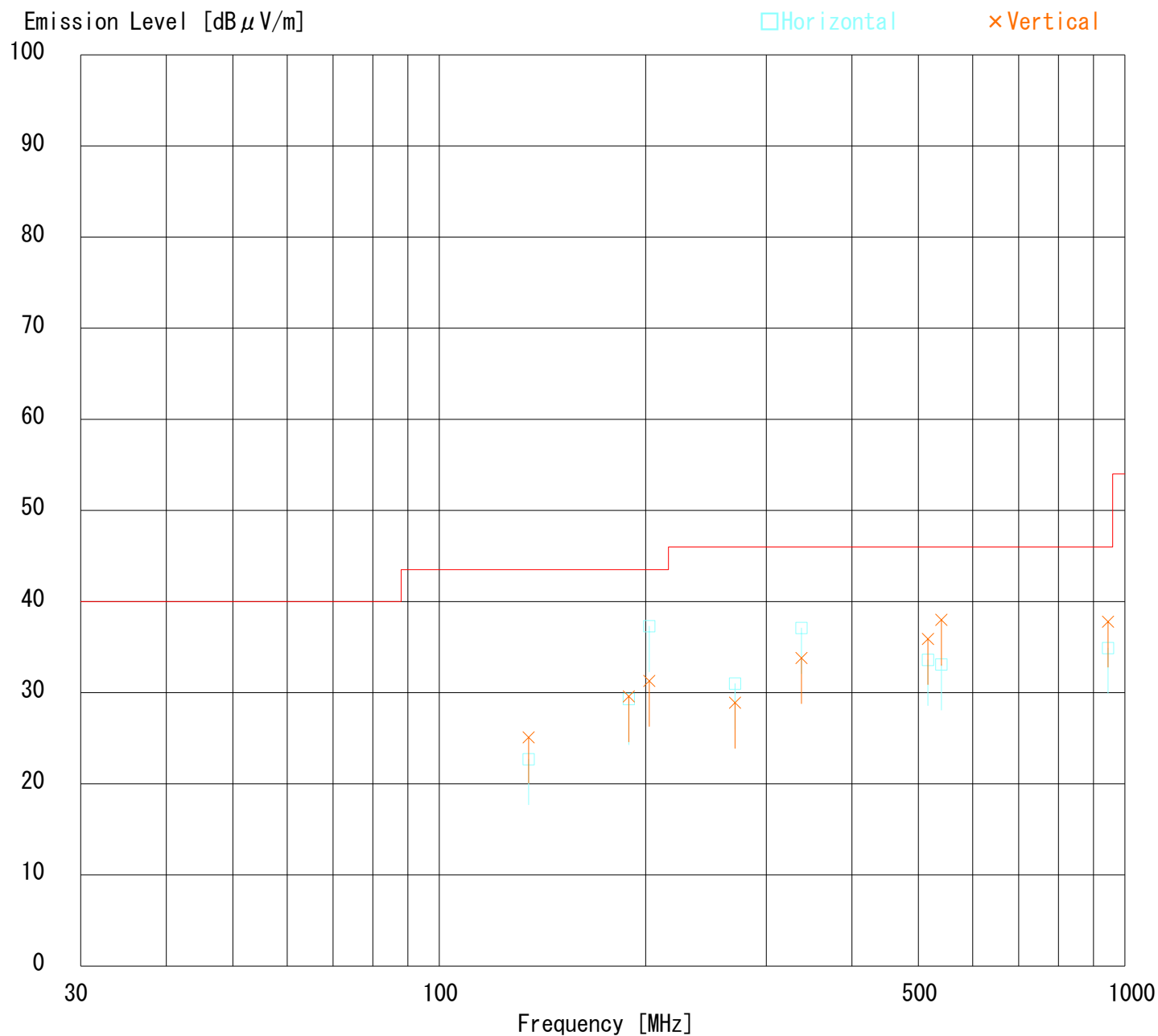
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1
Remarks : 5Vp-p
Date : 11/2/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 55 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec
Remarks : 5Vp-p
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1144.28	BB	51.8	53.1	24.6	39.8	3.5	0.0	40.1	41.4	74.0	33.9	32.6
2.	1619.90	BB	50.3	50.3	26.7	39.1	4.3	0.0	42.2	42.2	74.0	31.8	31.8

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

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

DATA OF RADIATION TEST

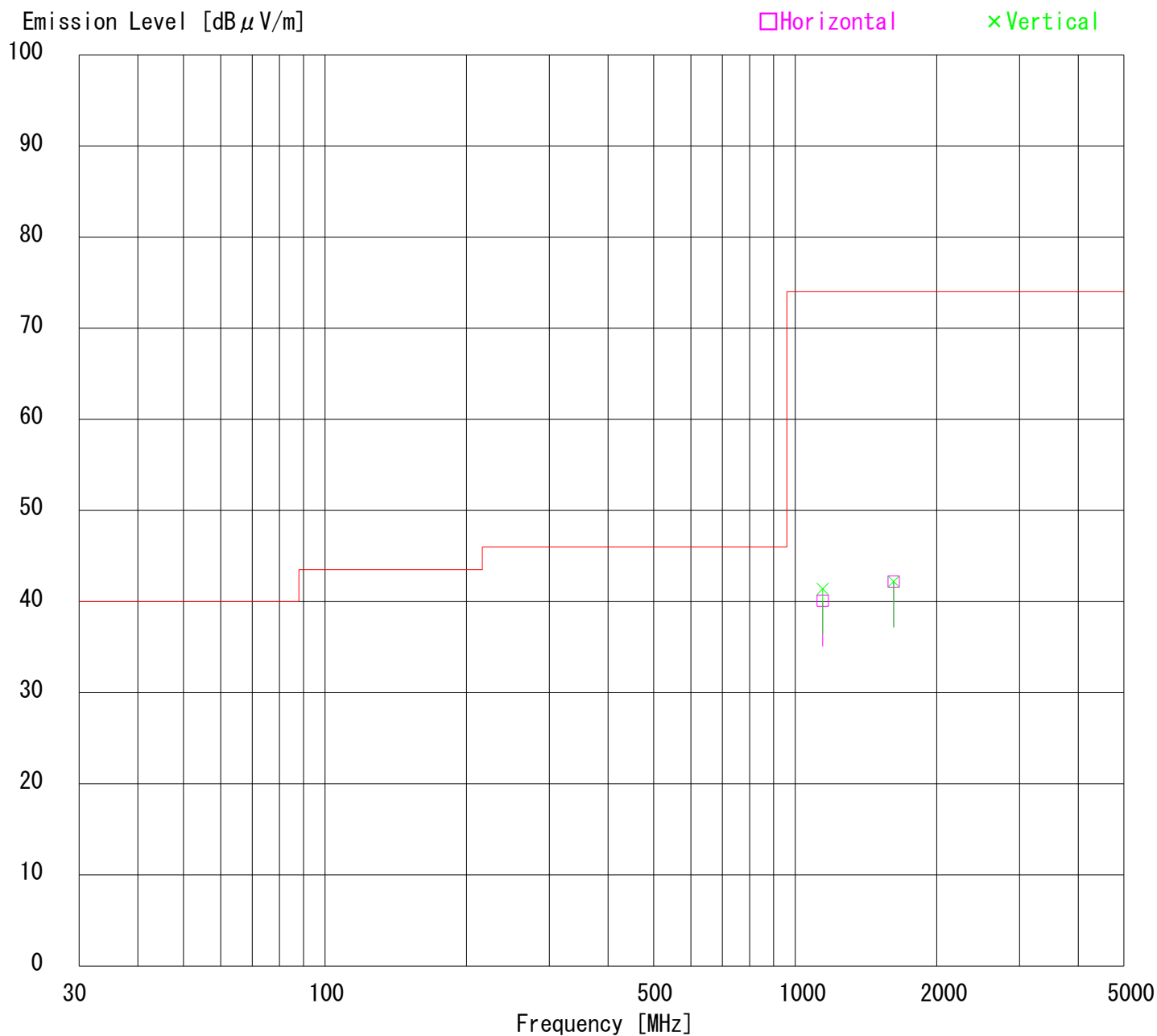
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec
Remarks : 5Vp-p
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Masaya Minami



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec
Remarks : 5Vp-p
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1144.28	BB	36.2	36.0	24.6	39.8	3.5	0.0	24.5	24.3	54.0	29.5	29.7
2.	1619.90	BB	42.5	41.4	26.7	39.1	4.3	0.0	34.4	33.3	54.0	19.6	20.7

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

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

DATA OF RADIATION TEST

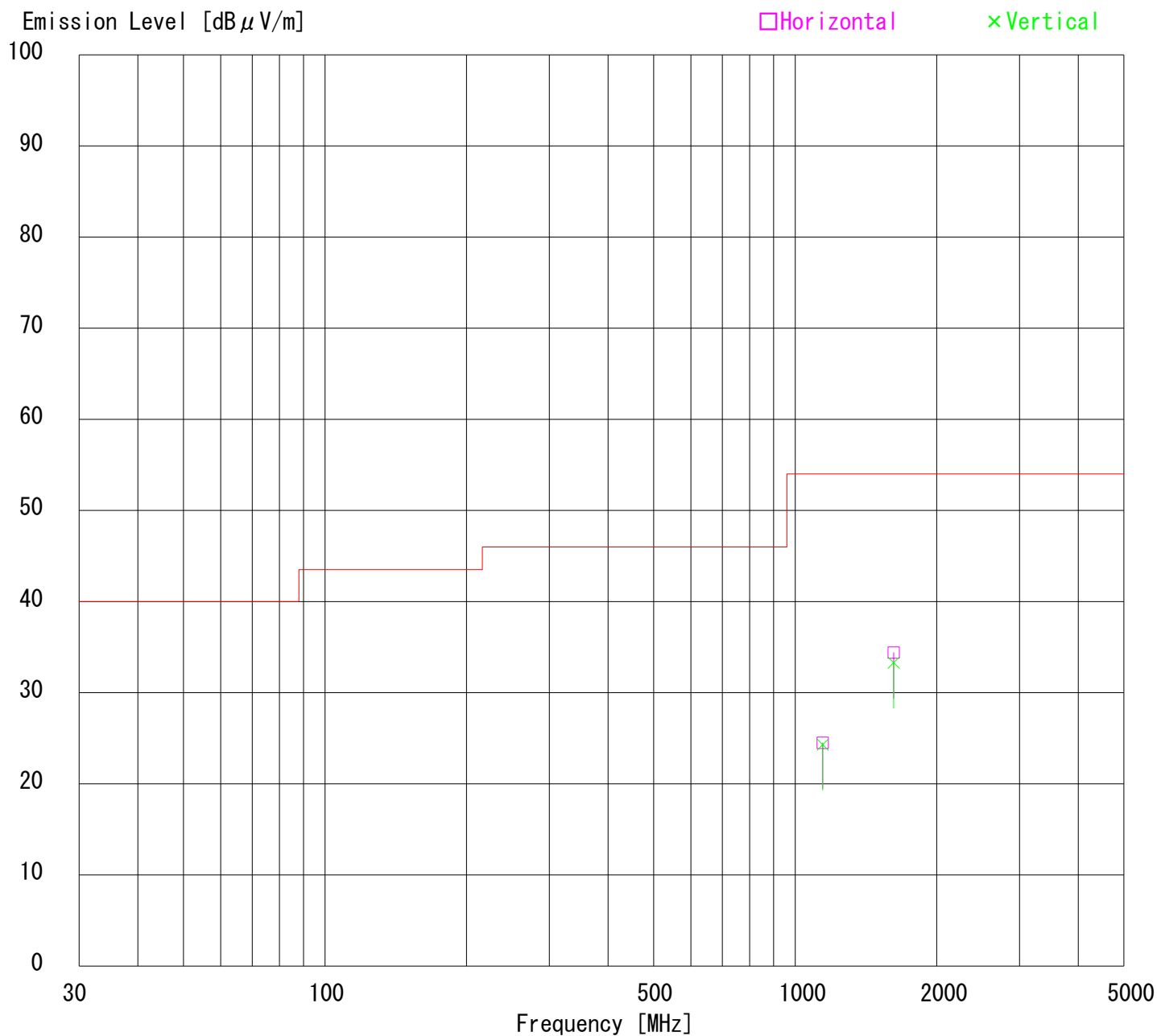
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input+Rec
Remarks : 5Vp-p
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Masaya Minami



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 10/20/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 55 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.02	BB	29.5	28.6	14.4	27.9	2.4	5.8	24.2	23.3	43.5	19.3	20.2
2.	189.01	BB	34.3	30.5	16.7	27.9	3.0	5.8	31.9	28.1	43.5	11.6	15.4
3.	202.50	BB	42.7	33.2	17.1	27.8	3.1	5.8	40.9	31.4	43.5	2.6	12.1
4.	270.01	BB	30.6	25.6	18.5	27.8	3.7	5.8	30.8	25.8	46.0	15.2	20.2
5.	337.49	BB	42.6	42.0	17.1	27.9	4.2	5.9	41.9	41.3	46.0	4.1	4.7
6.	540.02	BB	28.0	30.6	19.8	27.9	5.5	5.9	31.3	33.9	46.0	14.7	12.1
7.	648.02	BB	23.8	28.4	21.4	27.4	6.1	5.9	29.8	34.4	46.0	16.2	11.6
8.	945.01	BB	28.9	30.0	26.1	27.1	7.8	6.0	41.7	42.8	46.0	4.3	3.2

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

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

DATA OF RADIATION TEST

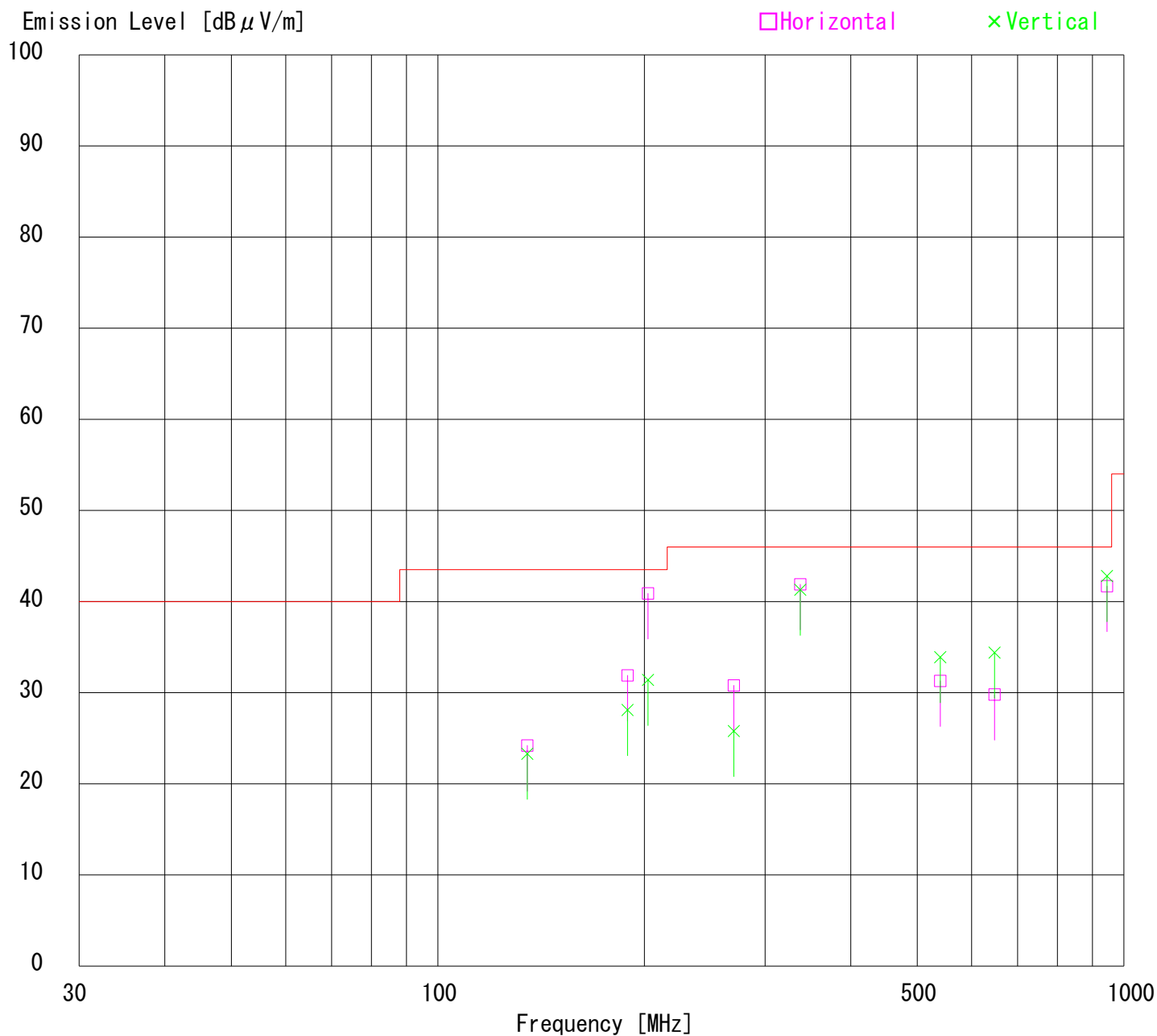
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 10/20/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 55 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1144.20	BB	51.3	51.4	24.6	39.8	3.5	0.0	39.6	39.7	74.0	34.4	34.3
2.	1754.89	BB	50.9	51.8	27.6	38.8	4.5	0.0	44.2	45.1	74.0	29.8	28.9

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

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

DATA OF RADIATION TEST

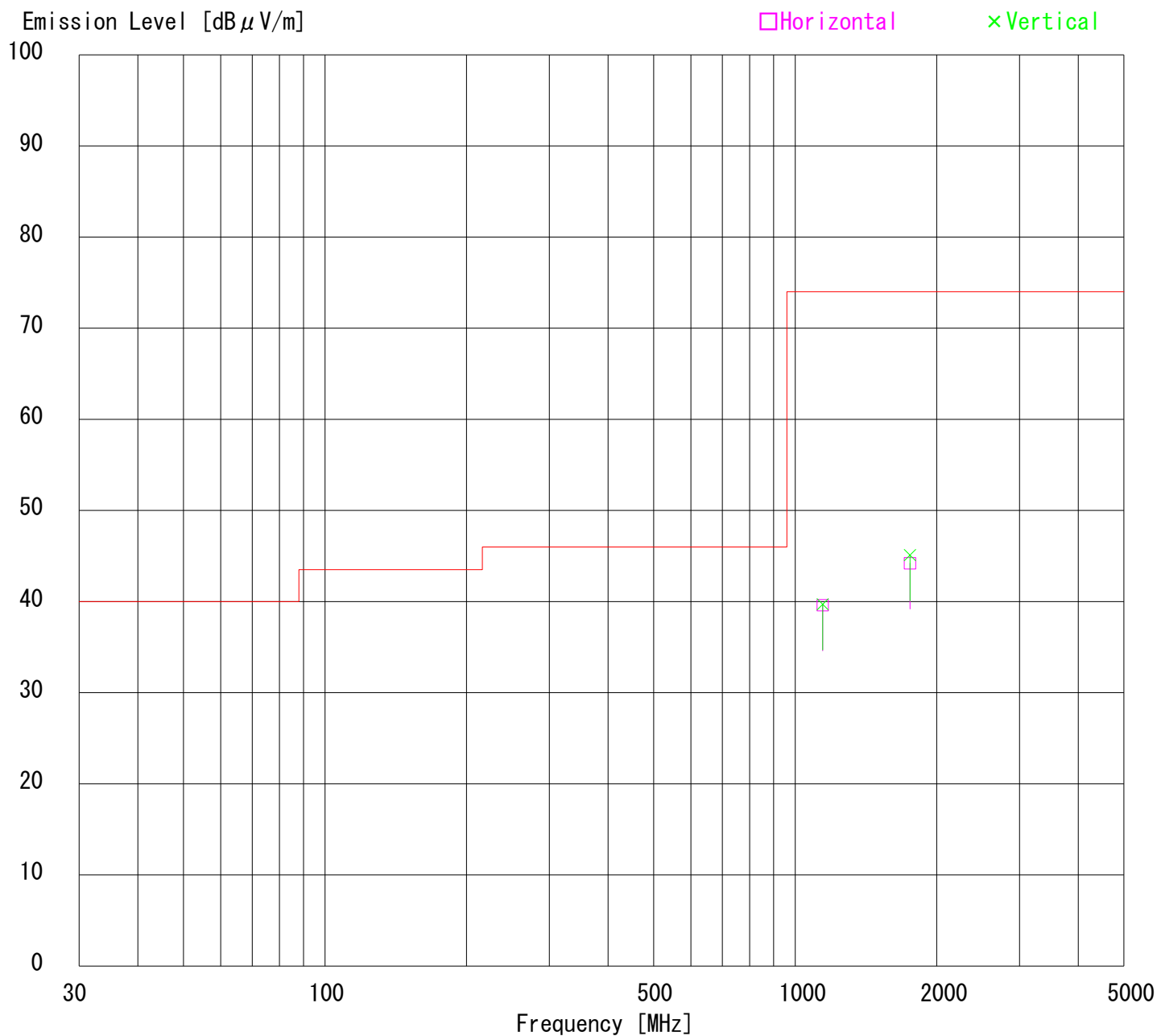
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Masaya Minami



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1144.20	BB	36.0	36.0	24.6	39.8	3.5	0.0	24.3	24.3	54.0	29.7	29.7
2.	1754.89	BB	42.8	47.1	27.6	38.8	4.5	0.0	36.1	40.4	54.0	17.9	13.6

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

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

DATA OF RADIATION TEST

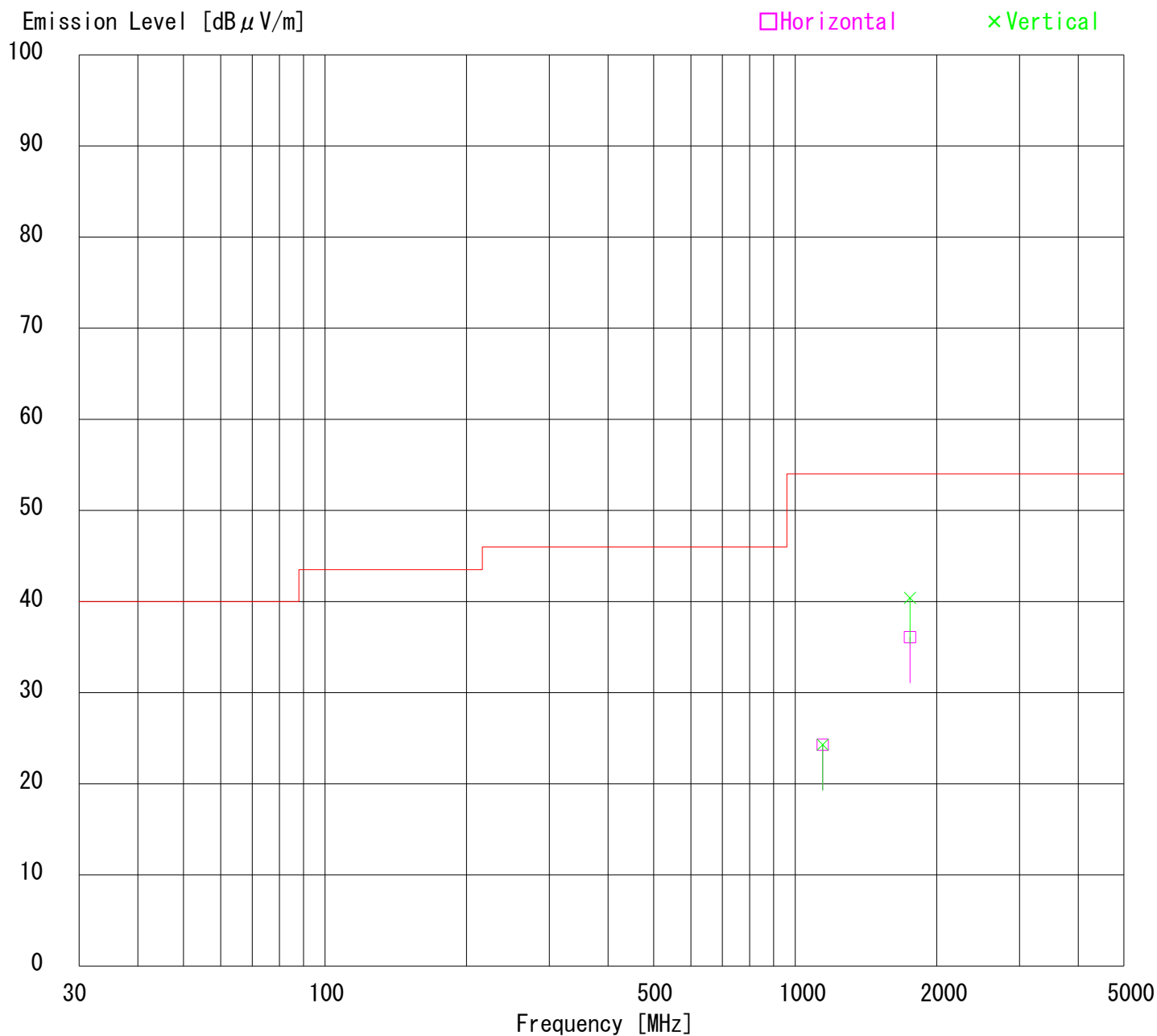
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Masaya Minami



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks :
Date : 11/2/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 55 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.01	BB	29.3	27.3	14.4	27.9	2.4	5.8	24.0	22.0	43.5	19.5	21.5
2.	189.02	BB	33.6	30.5	16.7	27.9	3.0	5.8	31.2	28.1	43.5	12.3	15.4
3.	202.50	BB	42.2	32.3	17.1	27.8	3.1	5.8	40.4	30.5	43.5	3.1	13.0
4.	270.02	BB	33.4	33.4	18.5	27.8	3.7	5.8	33.6	33.6	46.0	12.4	12.4
5.	337.51	BB	41.0	39.8	17.1	27.9	4.2	5.9	40.3	39.1	46.0	5.7	6.9
6.	516.14	BB	32.4	33.2	19.6	28.0	5.4	5.9	35.3	36.1	46.0	10.7	9.9
7.	540.00	BB	29.7	34.0	19.8	27.9	5.5	5.9	33.0	37.3	46.0	13.0	8.7
8.	945.02	BB	24.8	29.7	26.1	27.1	7.8	6.0	37.6	42.5	46.0	8.4	3.5

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

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

DATA OF RADIATION TEST

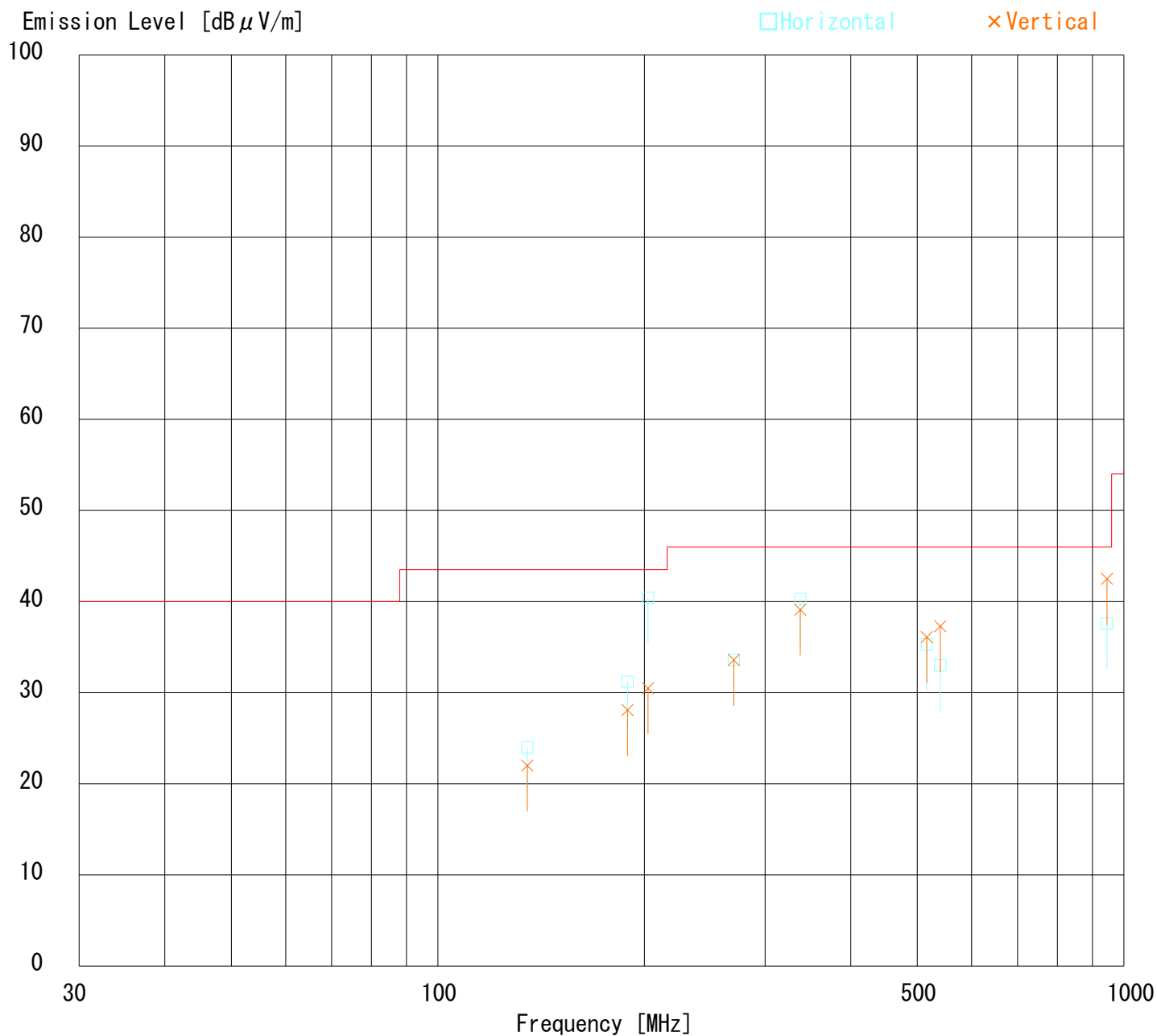
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0147-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks :
Date : 11/2/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 55 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks :
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1144.28	BB	51.3	52.0	24.6	39.8	3.5	0.0	39.6	40.3	74.0	34.4	33.7
2.	1754.87	BB	51.5	52.3	27.6	38.8	4.5	0.0	44.8	45.6	74.0	29.2	28.4

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

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

DATA OF RADIATION TEST

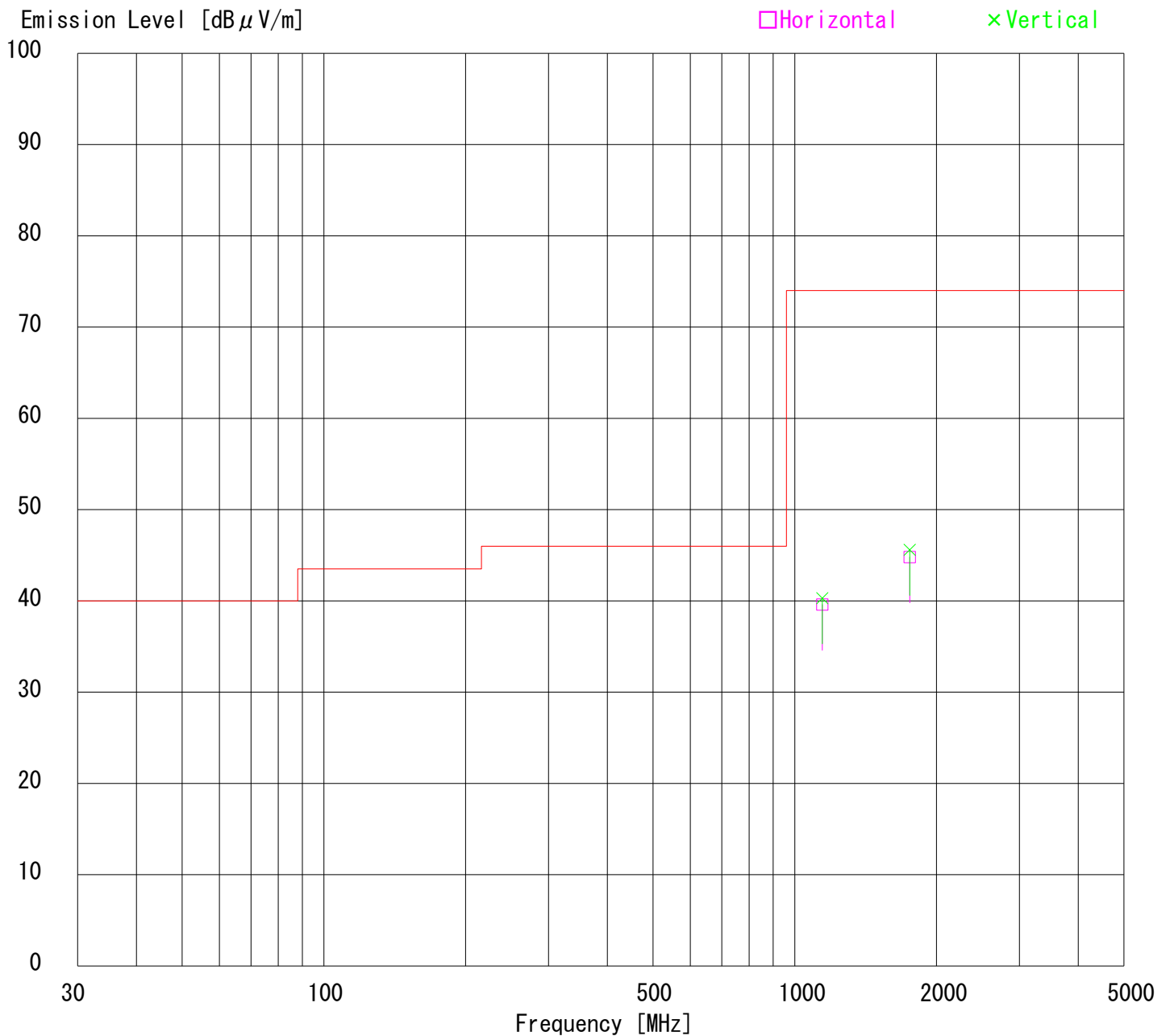
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks :
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Masaya Minami



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks :
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1144.28	BB	36.0	36.3	24.6	39.8	3.5	0.0	24.3	24.6	54.0	29.7	29.4
2.	1754.87	BB	43.1	46.5	27.6	38.8	4.5	0.0	36.4	39.8	54.0	17.6	14.2

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

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

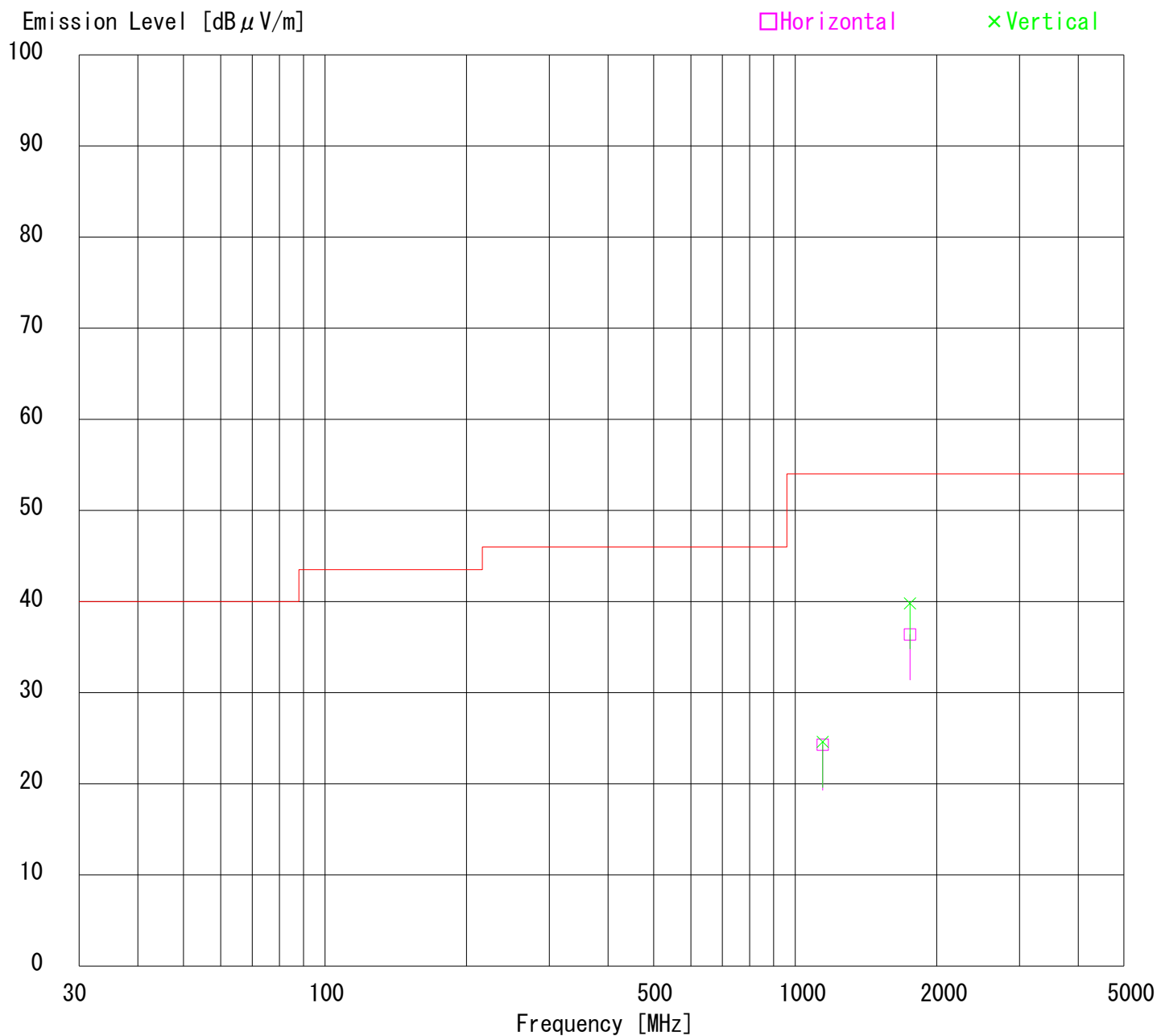
DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks :
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks : Test Channel #3
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B

Engineer : Masaya Minami

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	61.25	BB	24.1	25.3	8.2	28.1	1.6	5.8	11.6	12.8	40.0	28.4	27.2
2.	65.75	BB	25.8	26.3	7.3	28.1	1.7	5.8	12.5	13.0	40.0	27.5	27.0
3.	122.50	BB	21.7	21.9	13.7	27.9	2.3	5.8	15.6	15.8	43.5	27.9	27.7
4.	245.00	BB	21.3	21.2	17.3	27.8	3.5	5.8	20.1	20.0	46.0	25.9	26.0

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

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

DATA OF RADIATION TEST

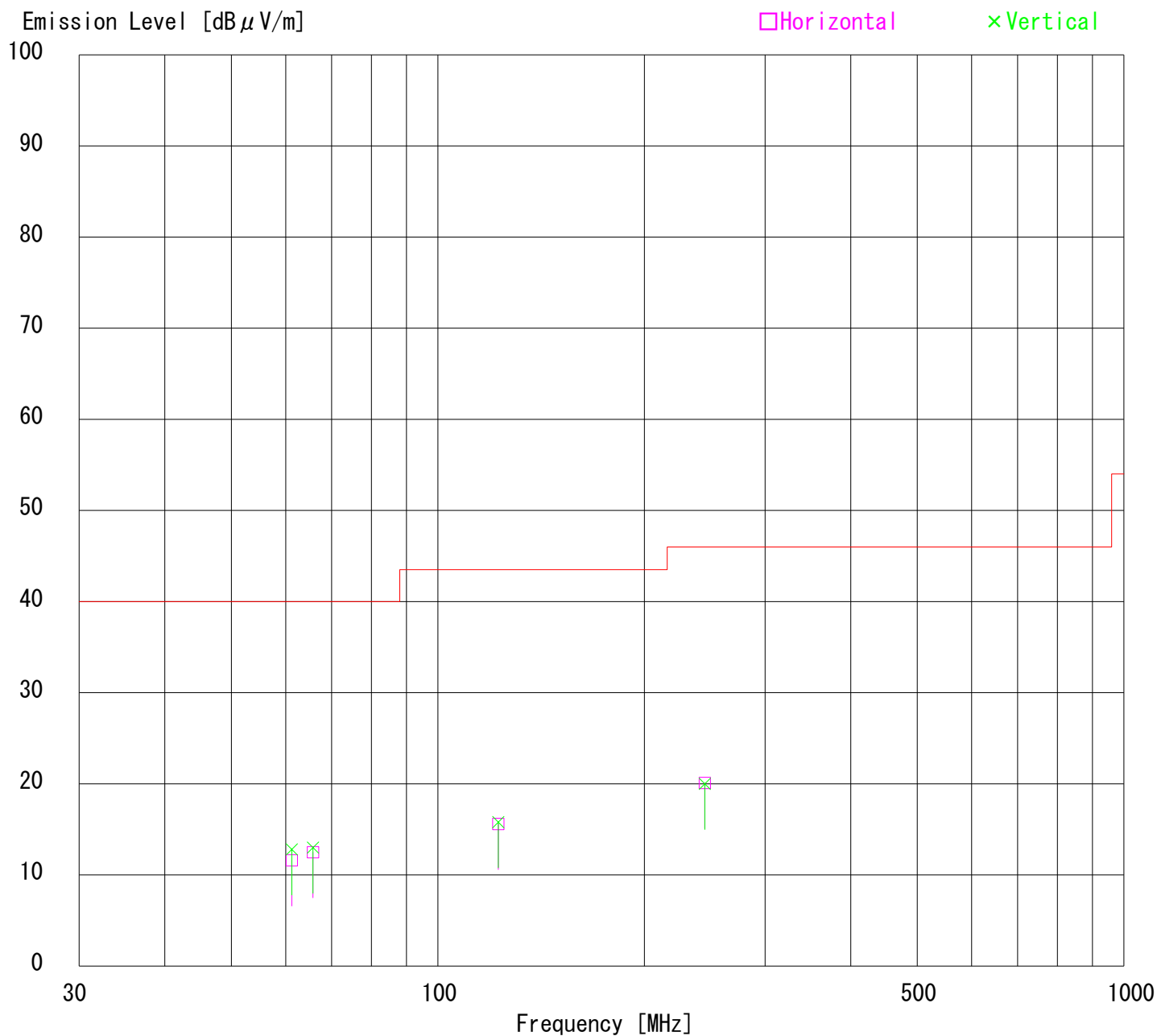
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks : Test Channel #3
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B

Engineer : Masaya Minami



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks : Test Channel #4
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Masaya Minami
Humidity : 42 %
Regulation : FCC Part15B CLASS B

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	67.25	BB	23.7	23.6	7.0	28.1	1.7	5.8	10.1	10.0	40.0	29.9	30.0
2.	71.75	BB	24.1	23.5	6.5	28.1	1.8	5.8	10.1	9.5	40.0	29.9	30.5
3.	134.50	BB	21.7	23.7	14.4	27.9	2.4	5.8	16.4	18.4	43.5	27.1	25.1
4.	201.75	BB	21.2	21.1	17.1	27.8	3.1	5.8	19.4	19.3	43.5	24.1	24.2

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

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

DATA OF RADIATION TEST

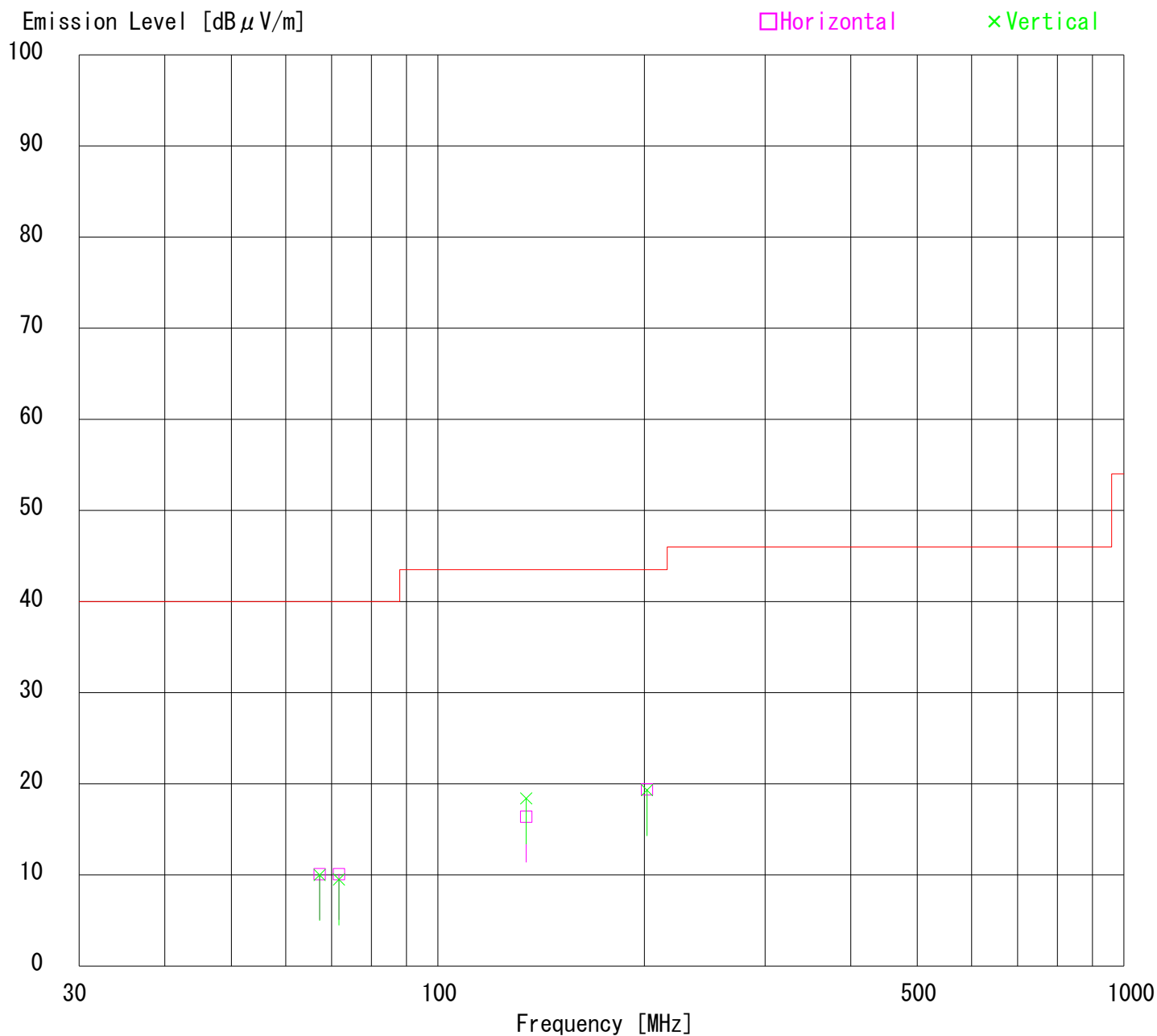
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26CE0157-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : VRDVD4100BA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play+Rec
Remarks : Test Channel #4
Date : 10/21/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 42 %
Regulation : FCC Part15B CLASS B

Engineer : Masaya Minami



DATA OF ANTENNA TERMINAL TEST

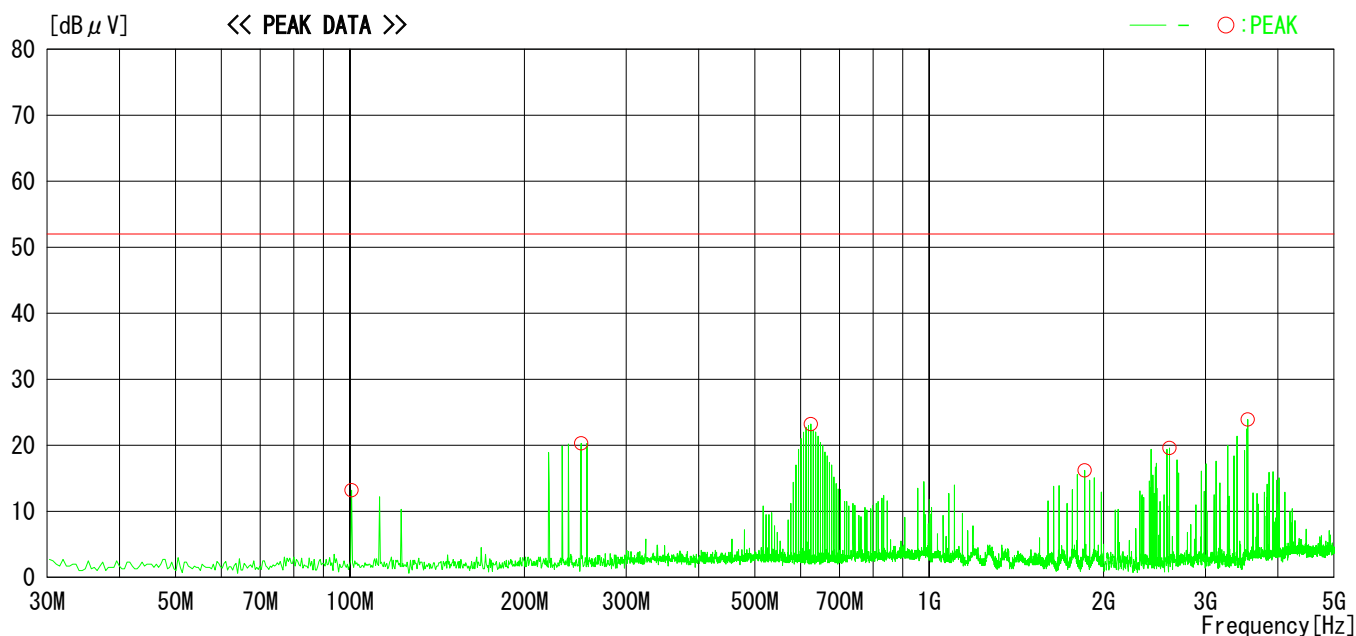
YOKOWA NO.7 S/R

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : VRDVD4100BA
OPERATION MODE : TV Tuning Mode

Report No. : 26CE0157-YW-1
DATE : October 20, 2005
REGULATION : FCC Part15 SubpartB
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 24deg. C/31%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING PEAK [dB μ V]	C. F [dB]	RESULT [dB μ V]	LIMIT PEAK [dB μ V]	MARGIN PEAK [dB]	PHASE
1	100.66400	33.2	-20.0	13.2	52.0	38.8	-
2	250.69350	39.5	-19.2	20.3	52.0	31.7	-
3	624.85330	43.0	-19.8	23.2	52.0	28.8	-
4	1856.40200	42.0	-25.8	16.2	52.0	35.8	-
5	2599.96000	45.0	-25.4	19.6	52.0	32.4	-
6	3549.96000	48.2	-24.3	23.9	52.0	28.1	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS[dB μ V] + CABLE LOSS[dB μ V]

DATA OF ANTENNA TERMINAL TEST

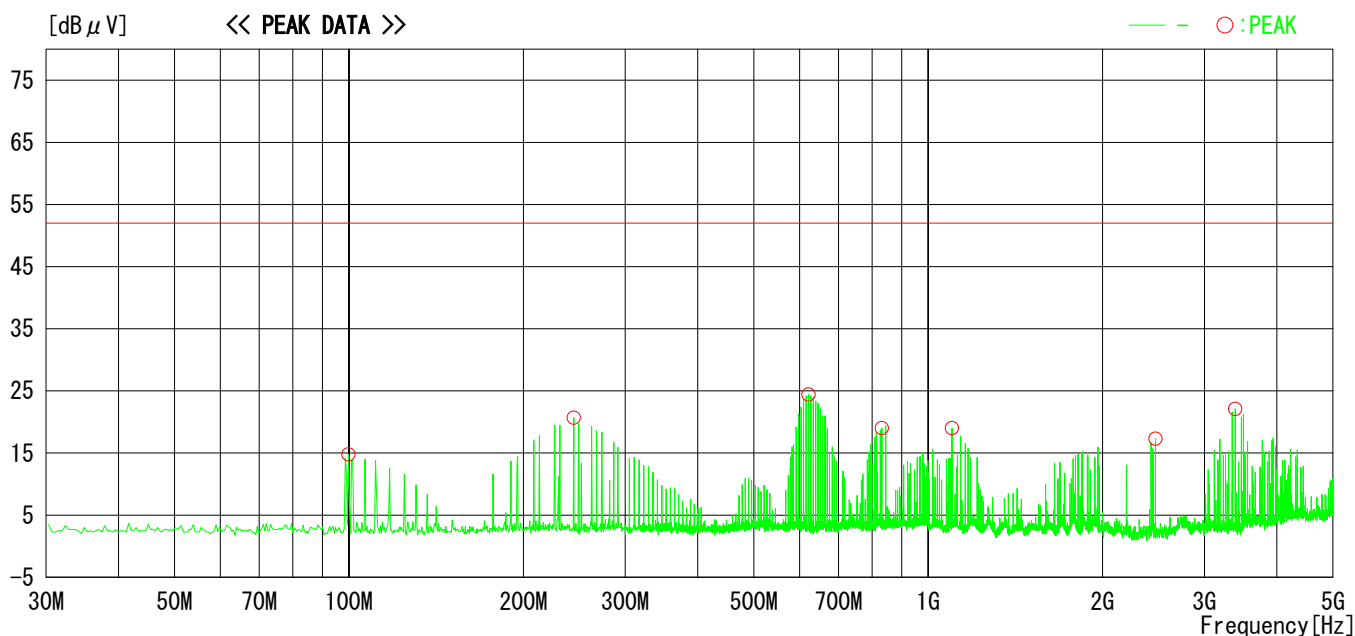
YOKOWA NO.7 S/R

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : VRDVD4100BA
OPERATION MODE : CATV Tuning Mode

Report No. : 26CE0157-YW-1
DATE : October 20, 2005
REGULATION : FCC Part15 SubpartB
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 24deg. C/31%

LIMIT : FCC 15B ANTENNA TERMINAL



CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS[dB μ V] + CABLE LOSS[dB μ V]

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : VRDVD4100BA
Power : 120V/60Hz
Description : TV Reception+Rec
Remarks : -

Report Number : 26CE0157-YW-1
Regulation : FCC Part15 SubpartB
Date : October 26 ,2005
Temp / Humid : 24deg.C / 42%
Engineer : Tsubasa Takayama

TV Reception(0dBmV)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.9	20.4	64.5	69.5	5.0
4	67.25	83.6	20.3	63.3	69.5	6.2
Audio Signal						
3	56.75	69.6	20.5	49.1	56.5	7.4
	65.75	68.6	20.4	48.2	56.5	8.3
4	62.75	69.0	20.4	48.6	56.5	7.9
	71.75	67.6	20.3	47.3	56.5	9.2

TV Reception(25dBmV)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.9	20.4	64.5	69.5	5.0
4	67.25	83.8	20.3	63.5	69.5	6.0
Audio Signal						
3	56.75	70.0	20.5	49.5	56.5	7.0
	65.75	68.6	20.4	48.2	56.5	8.3
4	62.75	68.9	20.4	48.5	56.5	8.0
	71.75	67.7	20.3	47.4	56.5	9.1

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.	Report Number : 26CE0157-YW-1
Equipment : DVD/VCR	Regulation : FCC Part15 SubpartB
Model Number : VRDVD4100BA	Date : October 22 ,2005
Power : 120V/60Hz	Temp / Humid : 24deg.C / 42%
Description : AV Input + Rec	Engineer : Tsubasa Takayama
Remarks : -	

AV Input1(1Vp-p)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.5	20.4	64.1	69.5	5.4
4	67.25	83.9	20.3	63.6	69.5	5.9
Audio Signal						
3	56.75	69.7	20.5	49.2	56.5	7.3
	65.75	68.5	20.4	48.1	56.5	8.4
4	62.75	68.9	20.4	48.5	56.5	8.0
	71.75	68.1	20.3	47.8	56.5	8.7

AV Input1(5Vp-p)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.9	20.4	64.5	69.5	5.0
4	67.25	83.9	20.3	63.6	69.5	5.9
Audio Signal						
3	56.75	69.7	20.5	49.2	56.5	7.3
	65.75	68.8	20.4	48.4	56.5	8.1
4	62.75	69.3	20.4	48.9	56.5	7.6
	71.75	68.0	20.3	47.7	56.5	8.8

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company	: Orion Electric Co., Ltd.	Report Number	: 26CE0157-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15 SubpartB
Model Number	: VRDVD4100BA	Date	: October 22 ,2005
Power	: 120V/60Hz	Temp / Humid	: 24deg.C / 42%
Description	: VCR Playback	Engineer	: Tsubasa Takayama
Remarks	: -		

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	83.0	20.4	62.6	69.5	6.9
4	67.25	83.7	20.3	63.4	69.5	6.1
Audio Signal						
3	56.75	69.4	20.5	48.9	56.5	7.6
	65.75	68.2	20.4	47.8	56.5	8.7
4	62.75	68.7	20.4	48.3	56.5	8.2
	71.75	67.5	20.3	47.2	56.5	9.3

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company	: Orion Electric Co., Ltd.	Report Number	: 26CE0157-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15 SubpartB
Model Number	: VRDVD4100BA	Date	: October 22 ,2005
Power	: 120V/60Hz	Temp / Humid	: 24deg.C / 42%
Description	: DVD Play	Engineer	: Tsubasa Takayama
Remarks	: -		

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	83.6	20.4	63.2	69.5	6.3
4	67.25	83.7	20.3	63.4	69.5	6.1
Audio Signal						
3	56.75	69.5	20.5	49.0	56.5	7.5
	65.75	68.3	20.4	47.9	56.5	8.6
4	62.75	68.8	20.4	48.4	56.5	8.2
	71.75	67.5	20.3	47.2	56.5	9.3

DATA OF RF SPURIOUS TEST

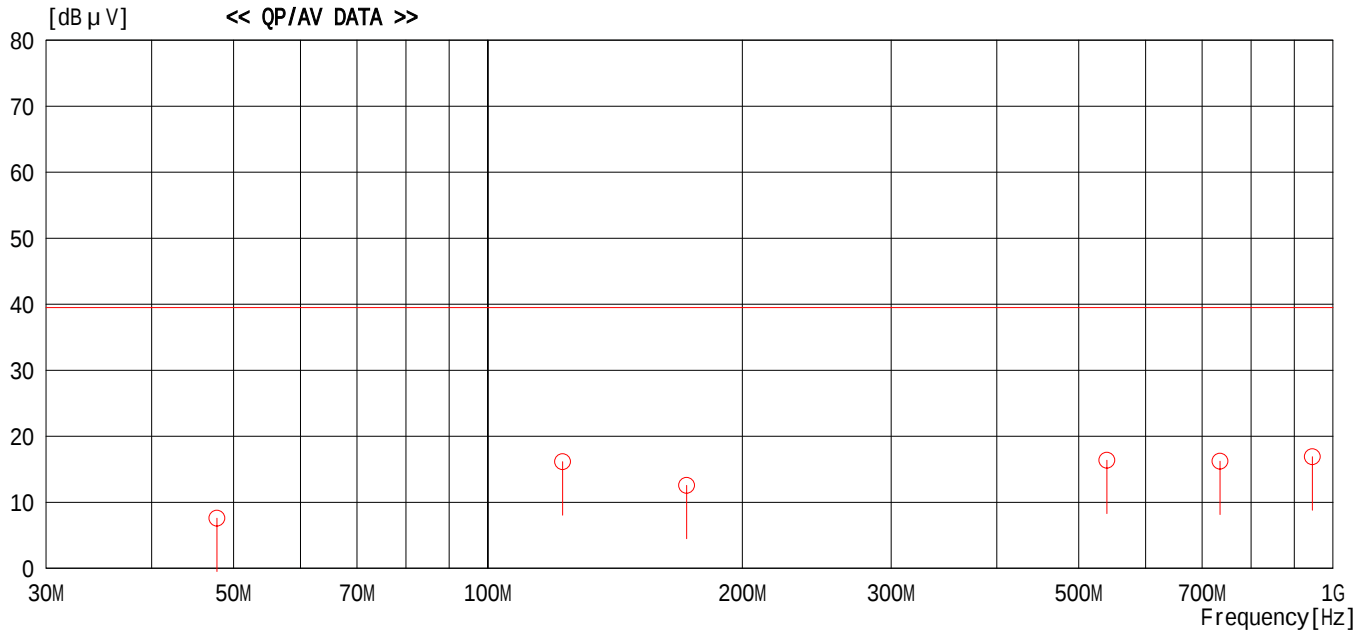
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]		C.F [dB]	RESULT PEAK [dB μ V]		LIMIT PEAK [dB μ V]		MARGIN PEAK [dB]		PHASE
1	47.8000	28.1	----	-20.5	7.6	----	39.5	----	31.9	----	-
2	122.5400	36.0	----	-19.9	16.1	----	39.5	----	23.4	----	-
3	171.8800	32.3	----	-19.7	12.6	----	39.5	----	26.9	----	-
4	539.9900	36.1	----	-19.7	16.4	----	39.5	----	23.1	----	-
5	735.0600	35.8	----	-19.6	16.2	----	39.5	----	23.3	----	-
6	945.0400	35.6	----	-18.7	16.9	----	39.5	----	22.6	----	-

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

DATA OF RF SPURIOUS TEST

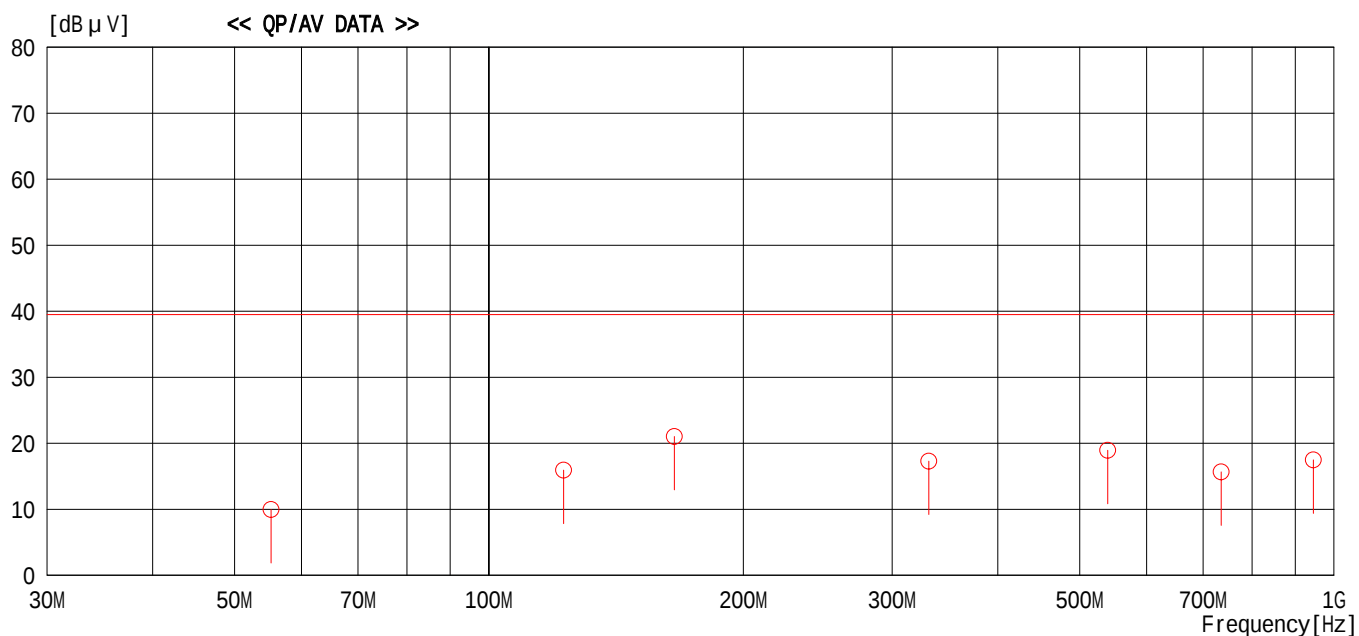
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	55.2400	30.5	----	-20.5	10.0	----	39.5	----	29.6	----	-
2	122.5500	35.8	----	-19.9	15.9	----	39.5	----	23.6	----	-
3	165.7700	40.7	----	-19.7	21.0	----	39.5	----	18.5	----	-
4	331.4800	36.6	----	-19.3	17.3	----	39.5	----	22.2	----	-
5	539.9600	38.6	----	-19.7	18.9	----	39.5	----	20.6	----	-
6	735.1400	35.3	----	-19.6	15.7	----	39.5	----	23.9	----	-
7	945.0200	36.2	----	-18.7	17.5	----	39.5	----	22.0	----	-

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

DATA OF RF SPURIOUS TEST

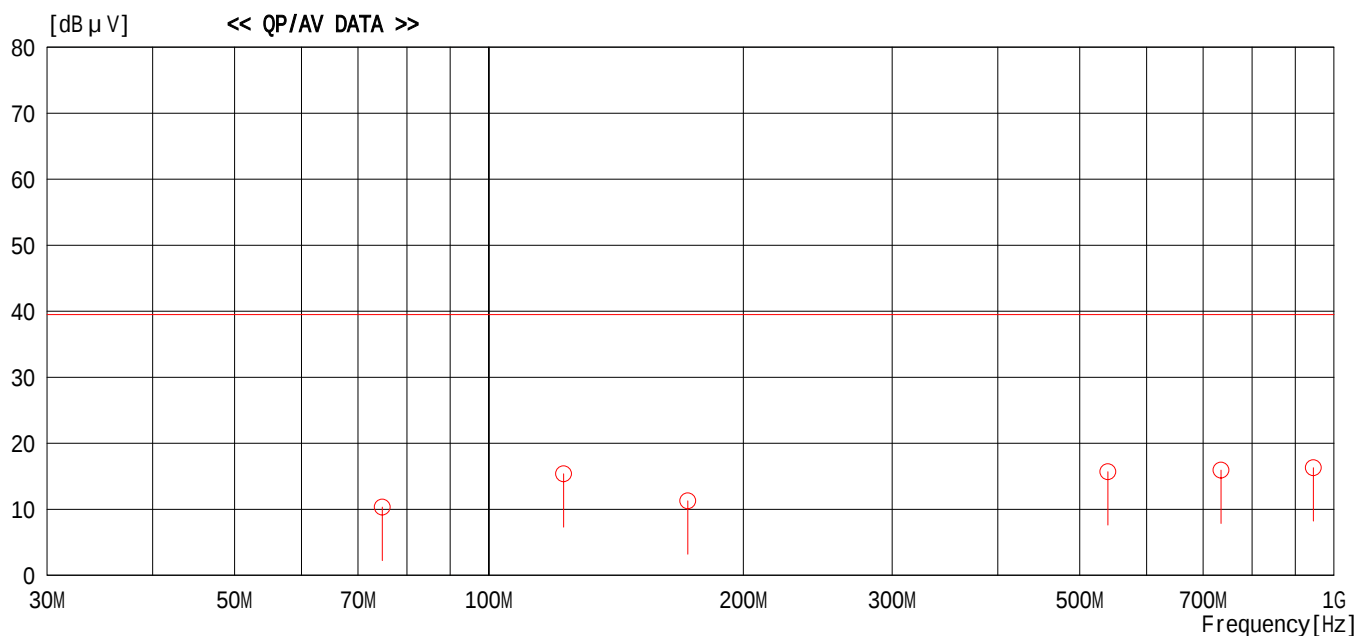
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]	C.F [dB]	RESULT PEAK [dB μ V]	LIMIT PEAK [dB μ V]	MARGIN PEAK [dB]	PHASE
1	74.8000	30.6	-20.3	10.3	39.5	29.2	-
2	122.5400	35.3	-19.9	15.4	39.5	24.1	-
3	171.9400	31.0	-19.7	11.3	39.5	28.2	-
4	540.0200	35.4	-19.7	15.7	39.5	23.8	-
5	735.0000	35.5	-19.6	15.9	39.5	23.6	-
6	945.0000	35.0	-18.7	16.3	39.5	23.2	-

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

DATA OF RF SPURIOUS TEST

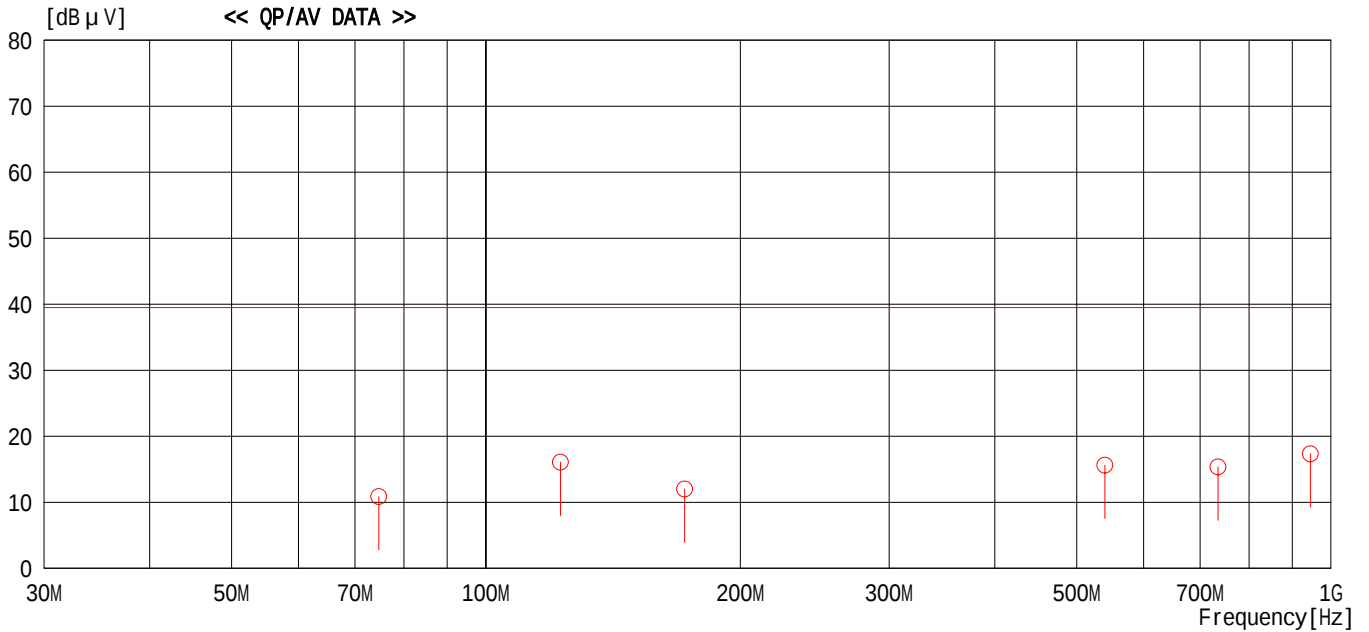
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]	C.F [dB]	RESULT PEAK [dB μ V]	LIMIT PEAK [dB μ V]	MARGIN PEAK [dB]	PHASE
1	74.6900	31.2	-20.3	10.9	39.5	28.6	-
2	122.4900	36.0	-19.9	16.1	39.5	23.4	-
3	171.8200	31.7	-19.7	12.0	39.5	27.5	-
4	540.0900	35.3	-19.7	15.6	39.5	23.9	-
5	735.0100	35.0	-19.6	15.4	39.5	24.1	-
6	945.0900	36.0	-18.7	17.3	39.5	22.2	-

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

DATA OF RF SPURIOUS TEST

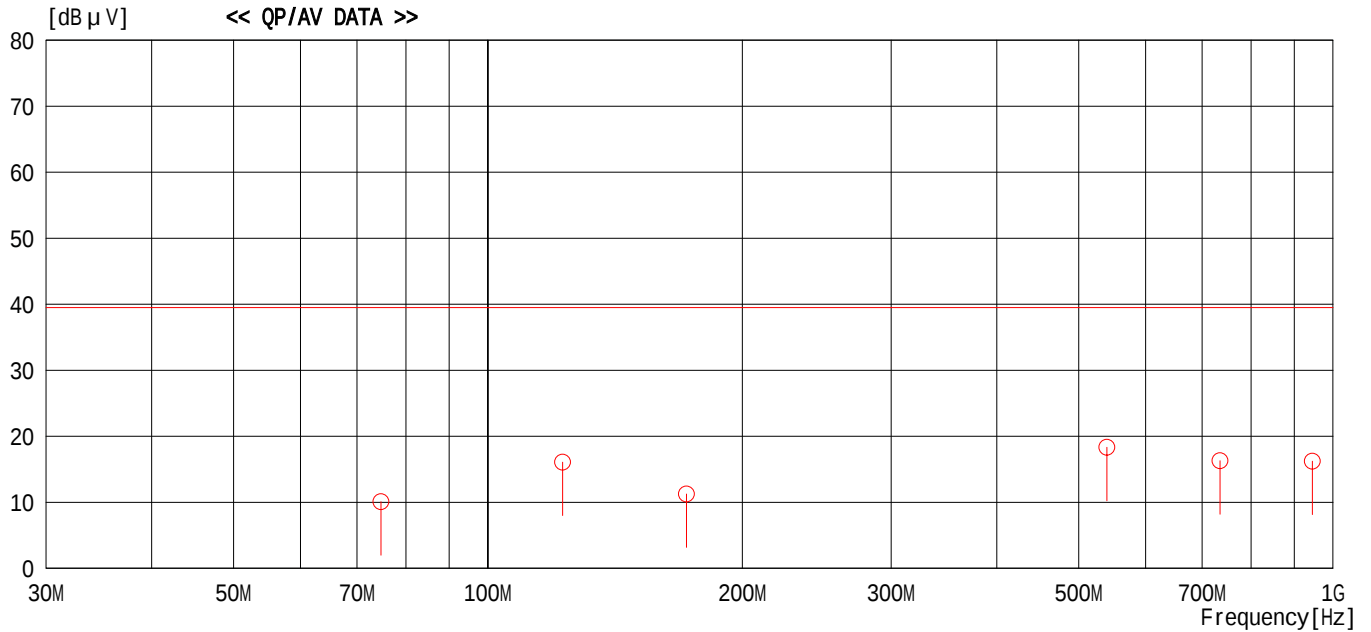
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback:3ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]	C.F [dB]	RESULT PEAK [dB μ V]	LIMIT PEAK [dB μ V]	MARGIN PEAK [dB]	PHASE
1	74.7200	30.4	-20.3	10.1	39.5	29.4	-
2	122.5700	36.0	-19.9	16.1	39.5	23.4	-
3	171.7700	31.0	-19.7	11.3	39.5	28.3	-
4	540.0000	38.0	-19.7	18.3	39.5	21.2	-
5	735.0500	35.9	-19.6	16.3	39.5	23.2	-
6	945.0200	34.9	-18.7	16.2	39.5	23.3	-

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

DATA OF RF SPURIOUS TEST

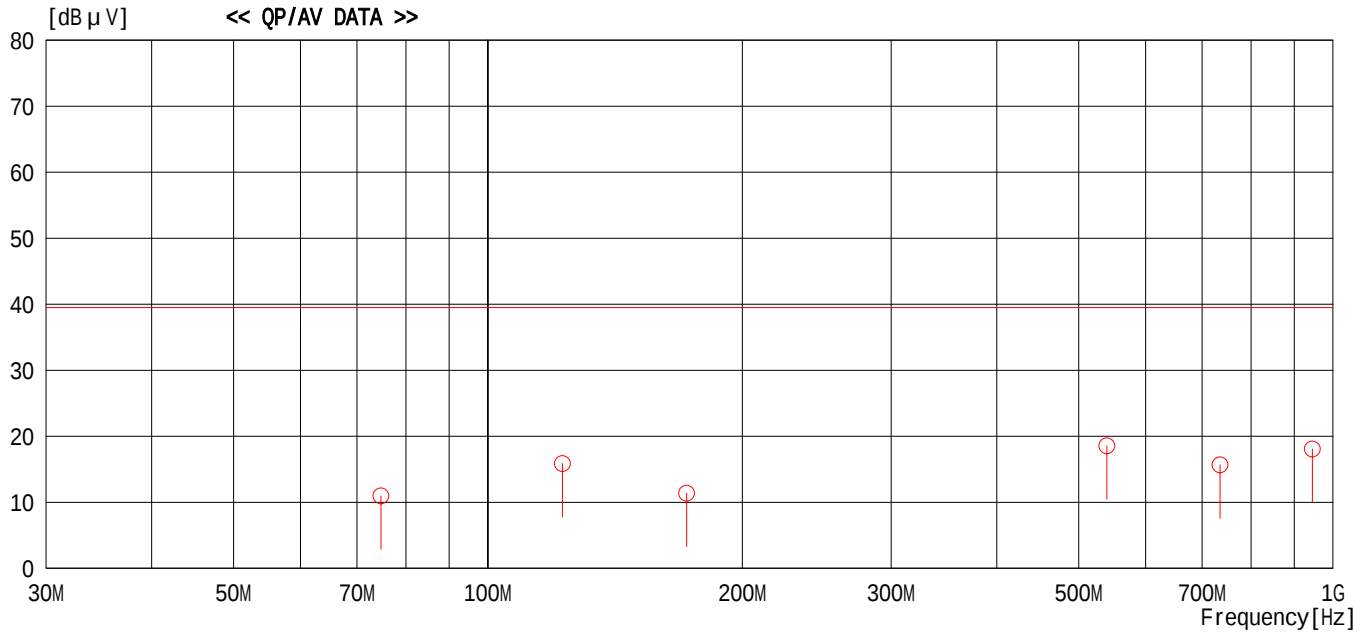
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play:3ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	74.7400	31.3	----	-20.3	11.0	----	39.5	----	28.5	----	-
2	122.5200	35.8	----	-19.9	15.9	----	39.5	----	23.6	----	-
3	171.8400	31.1	----	-19.7	11.4	----	39.5	----	28.1	----	-
4	539.9900	38.3	----	-19.7	18.6	----	39.5	----	21.0	----	-
5	735.1000	35.3	----	-19.6	15.7	----	39.5	----	23.9	----	-
6	944.9700	36.8	----	-18.7	18.1	----	39.5	----	21.4	----	-

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

DATA OF RF SPURIOUS TEST

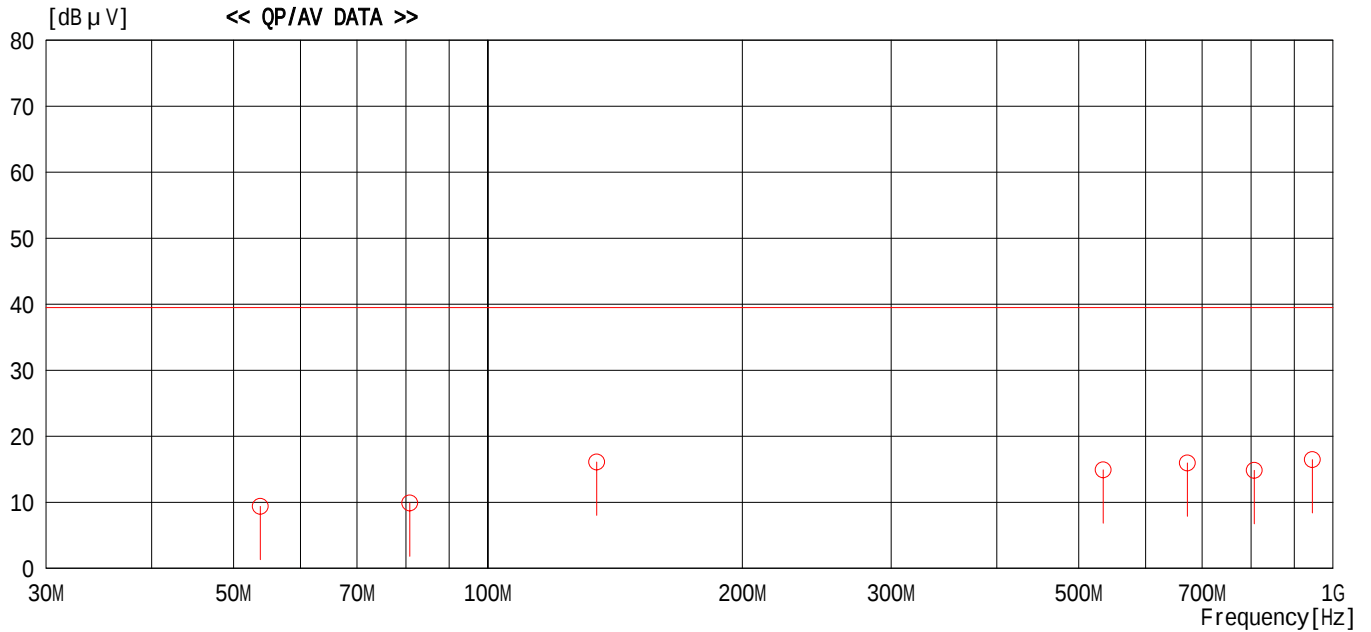
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	53.8000	29.9	----	-20.5	9.4	----	39.5	----	30.1	----	-
2	80.8300	30.0	----	-20.1	9.9	----	39.5	----	29.6	----	-
3	134.5000	36.0	----	-19.9	16.1	----	39.5	----	23.4	----	-
4	534.6000	34.6	----	-19.7	14.9	----	39.5	----	24.6	----	-
5	672.3700	35.8	----	-19.8	16.0	----	39.5	----	23.5	----	-
6	806.8500	34.4	----	-19.6	14.8	----	39.5	----	24.7	----	-
7	945.0100	35.2	----	-18.7	16.5	----	39.5	----	23.0	----	-

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

DATA OF RF SPURIOUS TEST

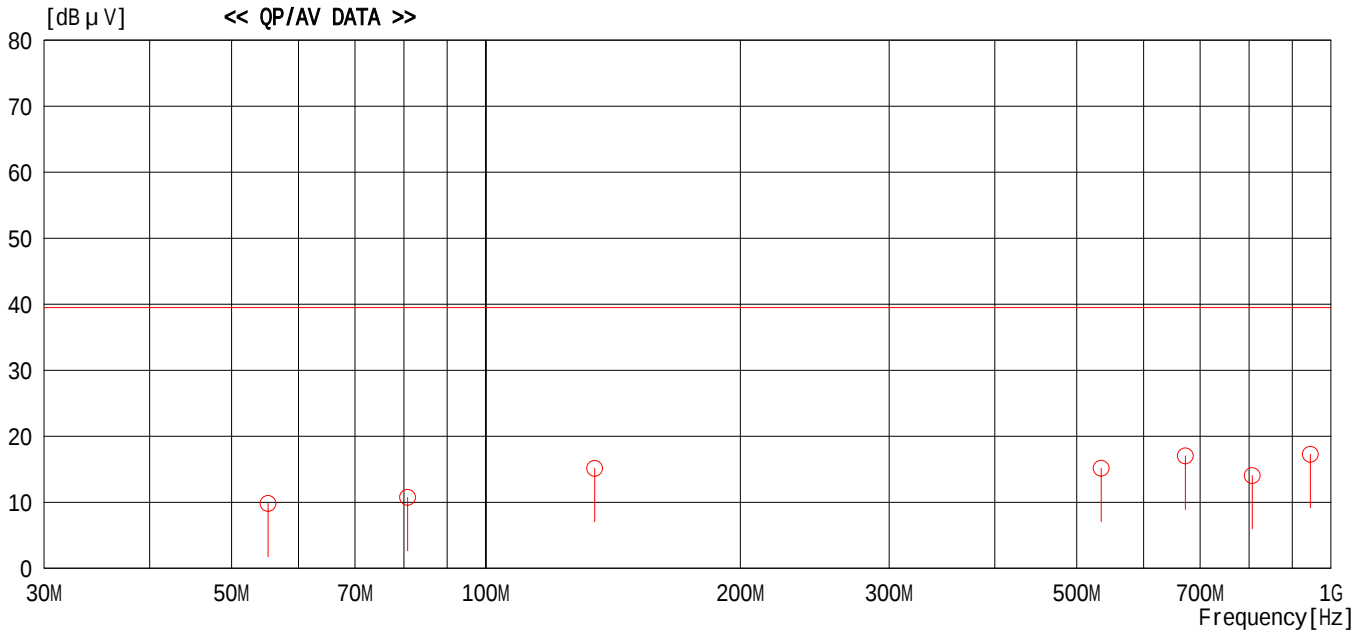
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
	[MHz]	PEAK [dB μ V]	[dB μ V]	[dB]	PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	55.2400	30.3	----	-20.5	9.8	----	39.5	----	29.7	----	-
2	80.7700	30.8	----	-20.1	10.7	----	39.5	----	28.8	----	-
3	134.4800	35.0	----	-19.9	15.1	----	39.5	----	24.4	----	-
4	534.5200	34.9	----	-19.7	15.2	----	39.5	----	24.4	----	-
5	672.4300	36.8	----	-19.8	17.0	----	39.5	----	22.5	----	-
6	806.9200	33.6	----	-19.6	14.0	----	39.5	----	25.5	----	-
7	945.0700	36.0	----	-18.7	17.3	----	39.5	----	22.2	----	-

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

DATA OF RF SPURIOUS TEST

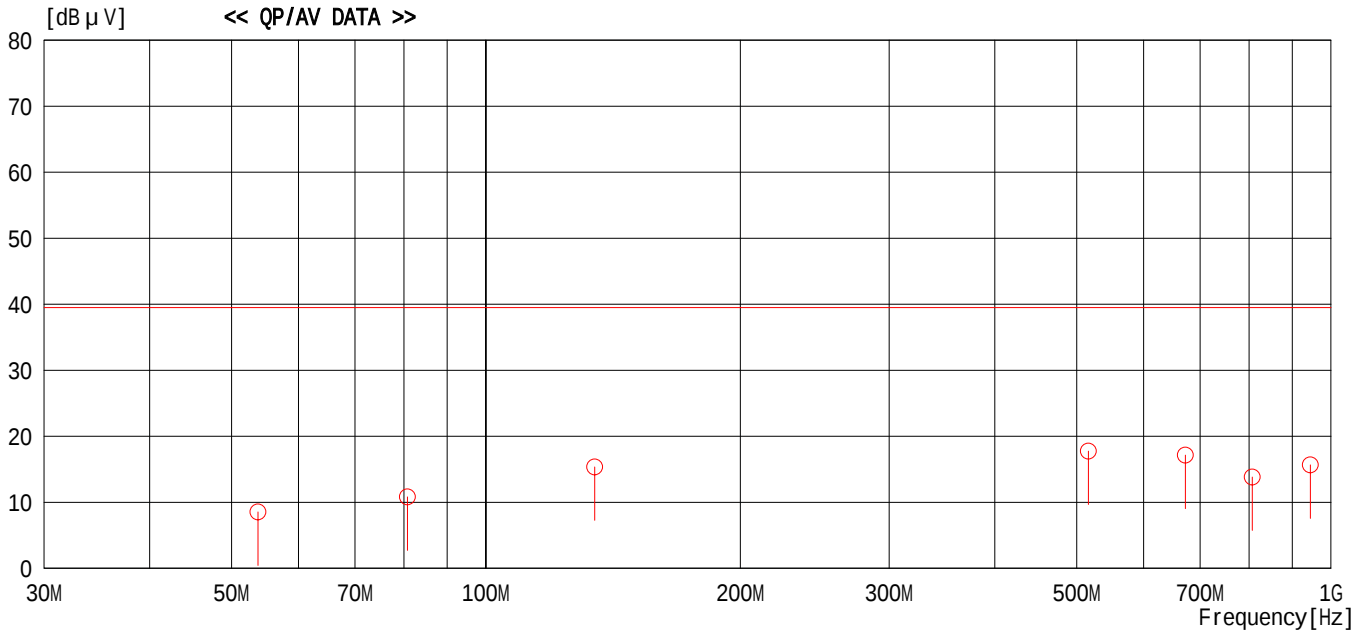
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]		C.F [dB]	RESULT PEAK [dB μ V]		LIMIT PEAK [dB μ V]		MARGIN PEAK [dB]		PHASE
		[dB μ V]	[dB μ V]		[dB μ V]	[dB μ V]	[dB μ V]	[dB μ V]	[dB]	[dB]	
1	53.7400	29.0	----	-20.5	8.5	----	39.5	----	31.0	----	-
2	80.7400	30.9	----	-20.1	10.8	----	39.5	----	28.7	----	-
3	134.5100	35.3	----	-19.9	15.4	----	39.5	----	24.2	----	-
4	516.2900	37.5	----	-19.7	17.8	----	39.5	----	21.8	----	-
5	672.4400	36.9	----	-19.8	17.1	----	39.5	----	22.4	----	-
6	806.8400	33.4	----	-19.6	13.8	----	39.5	----	25.7	----	-
7	945.0400	34.4	----	-18.7	15.7	----	39.5	----	23.9	----	-

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

DATA OF RF SPURIOUS TEST

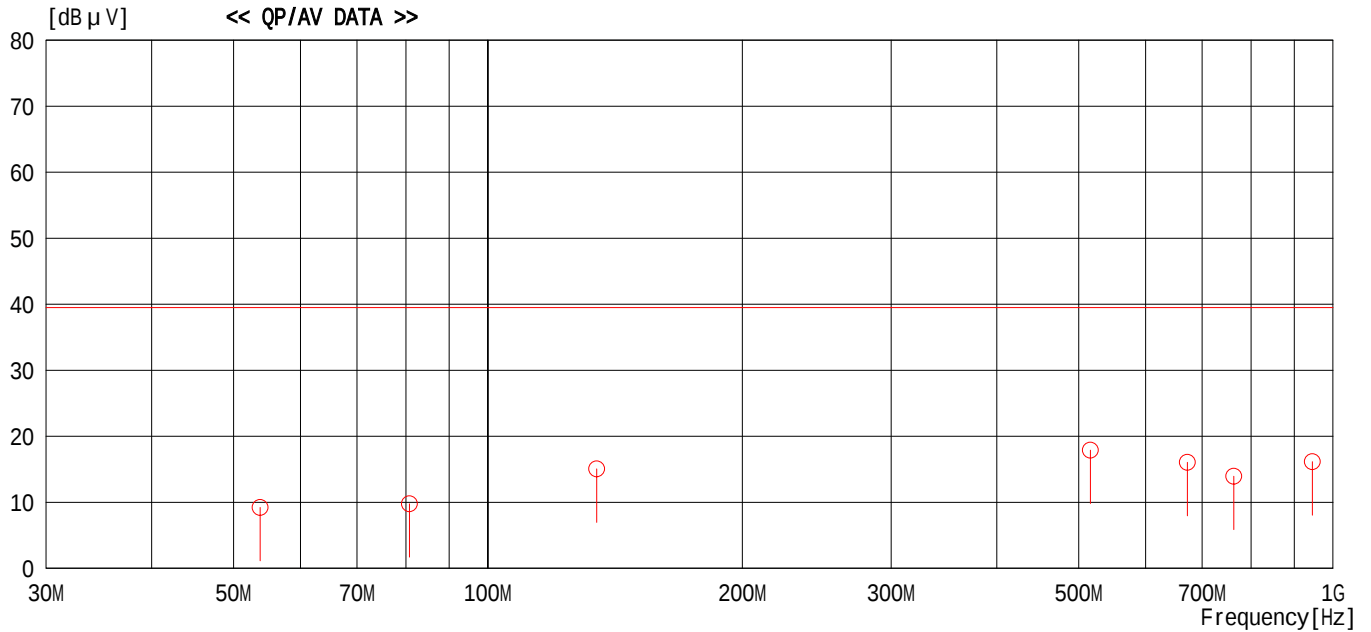
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]		C.F [dB]	RESULT PEAK [dB μ V]		LIMIT PEAK [dB μ V]		MARGIN PEAK [dB]		PHASE
1	53.7500	29.7	----	-20.5	9.2	----	39.5	----	30.3	----	-
2	80.7400	29.9	----	-20.1	9.8	----	39.5	----	29.7	----	-
3	134.5100	35.0	----	-19.9	15.1	----	39.5	----	24.5	----	-
4	516.2200	37.6	----	-19.7	17.9	----	39.5	----	21.6	----	-
5	672.4200	35.9	----	-19.8	16.1	----	39.5	----	23.5	----	-
6	763.0600	33.5	----	-19.6	13.9	----	39.5	----	25.6	----	-
7	945.0900	34.9	----	-18.7	16.2	----	39.5	----	23.4	----	-

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

DATA OF RF SPURIOUS TEST

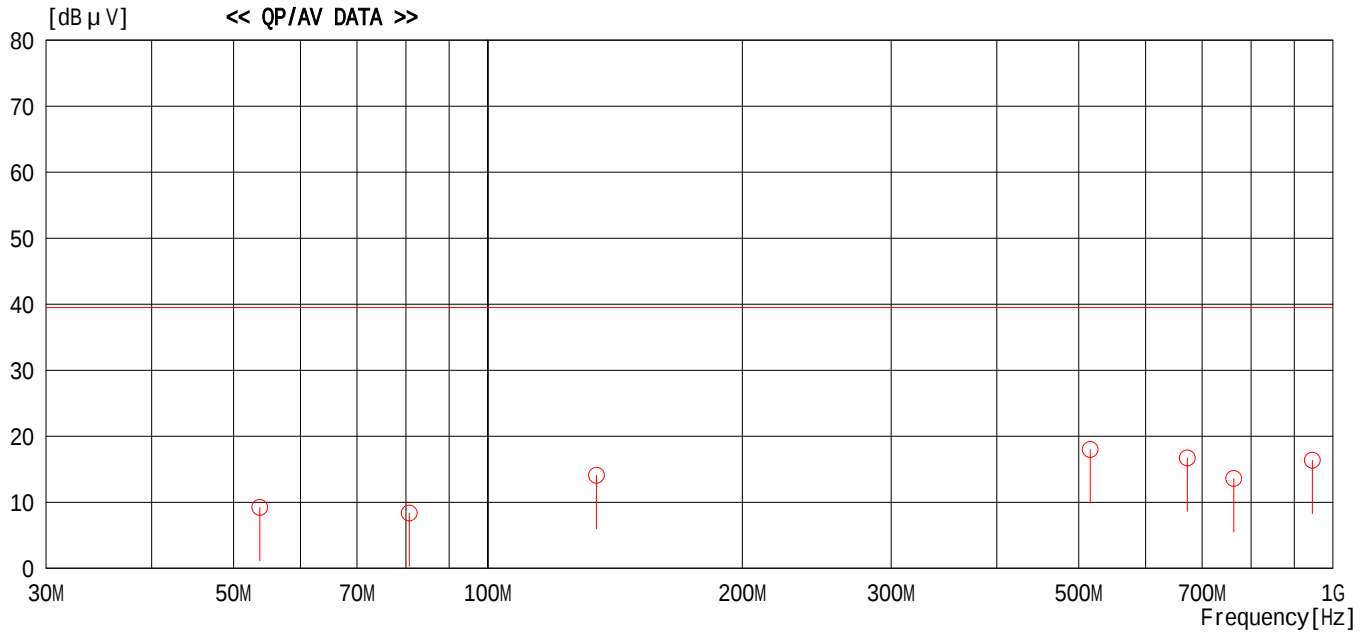
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback:4ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	53.7100	29.7	----	-20.5	9.2	----	39.5	----	30.3	----	-
2	80.7100	28.5	----	-20.1	8.4	----	39.5	----	31.1	----	-
3	134.4500	34.0	----	-19.9	14.1	----	39.5	----	25.4	----	-
4	516.0400	37.7	----	-19.7	18.0	----	39.5	----	21.5	----	-
5	672.3800	36.5	----	-19.8	16.7	----	39.5	----	22.8	----	-
6	763.0400	33.2	----	-19.6	13.6	----	39.5	----	25.9	----	-
7	944.9400	35.1	----	-18.7	16.4	----	39.5	----	23.1	----	-

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

DATA OF RF SPURIOUS TEST

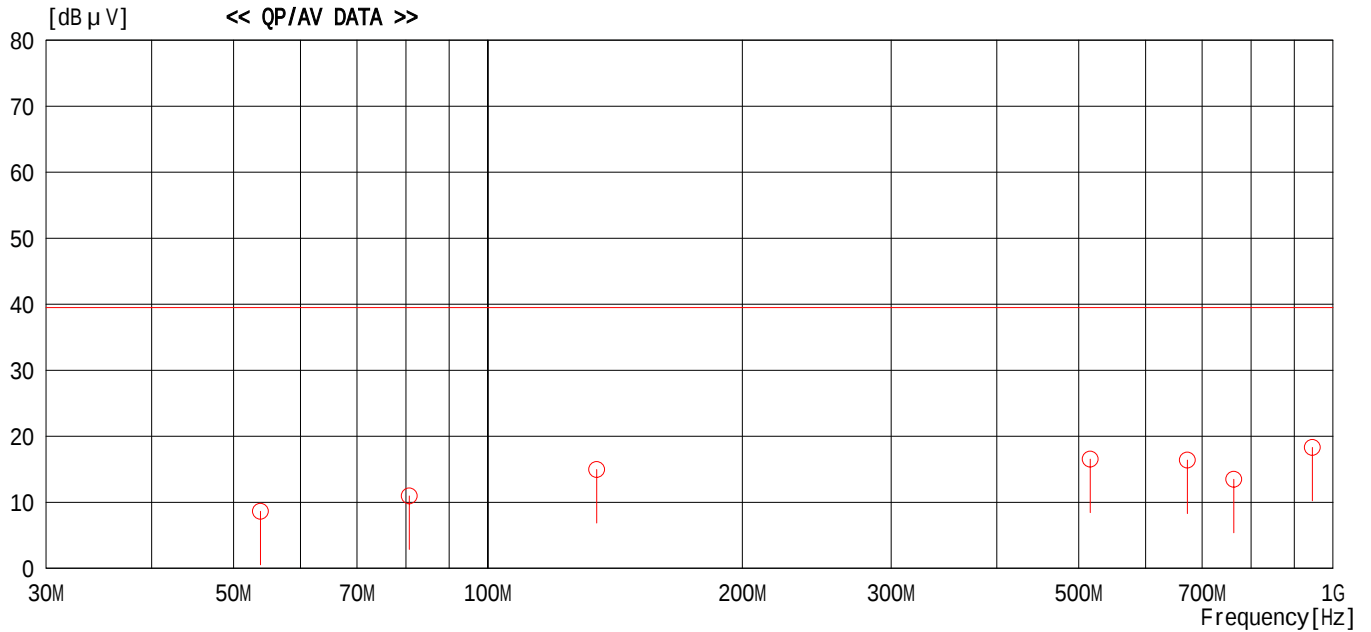
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play:4ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	53.8100	29.1	----	-20.5	8.6	----	39.5	----	30.9	----	-
2	80.7200	31.0	----	-20.1	10.9	----	39.5	----	28.6	----	-
3	134.5000	34.9	----	-19.9	15.0	----	39.5	----	24.6	----	-
4	516.1400	36.2	----	-19.7	16.5	----	39.5	----	23.0	----	-
5	672.4000	36.2	----	-19.8	16.4	----	39.5	----	23.1	----	-
6	763.1400	33.1	----	-19.6	13.5	----	39.5	----	26.0	----	-
7	945.0000	37.0	----	-18.7	18.3	----	39.5	----	21.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	20.2	----	-20.4	-0.2	----	9.5	----	9.7	----	-
2	122.5000	21.2	----	-19.9	1.3	----	9.5	----	8.2	----	-
3	183.7500	21.5	----	-19.6	1.9	----	9.5	----	7.7	----	-
4	245.0000	21.2	----	-19.3	1.9	----	9.5	----	7.7	----	-
5	306.2500	20.7	----	-19.2	1.5	----	9.5	----	8.0	----	-
6	367.5000	21.2	----	-19.4	1.8	----	9.5	----	7.7	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	19.3	----	-20.4	-1.1	----	9.5	----	10.6	----	-
2	122.5000	20.7	----	-19.9	0.7	----	9.5	----	8.8	----	-
3	183.7500	19.6	----	-19.6	0.0	----	9.5	----	9.5	----	-
4	245.0000	20.8	----	-19.3	1.5	----	9.5	----	8.0	----	-
5	306.2500	20.7	----	-19.2	1.5	----	9.5	----	8.0	----	-
6	367.5000	20.2	----	-19.4	0.8	----	9.5	----	8.7	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback:3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	19.4	----	-20.4	-1.0	----	9.5	----	10.5	----	-
2	122.5000	19.1	----	-19.9	-0.8	----	9.5	----	10.3	----	-
3	183.7500	18.5	----	-19.6	-1.1	----	9.5	----	10.6	----	-
4	245.0000	20.3	----	-19.3	1.0	----	9.5	----	8.5	----	-
5	306.2500	21.2	----	-19.2	1.9	----	9.5	----	7.6	----	-
6	367.5000	20.3	----	-19.4	0.9	----	9.5	----	8.6	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play:3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	19.9	----	-20.4	-0.5	----	9.5	----	10.0	----	-
2	122.5000	19.5	----	-19.9	-0.5	----	9.5	----	10.0	----	-
3	183.7500	20.3	----	-19.6	0.7	----	9.5	----	8.8	----	-
4	245.0000	19.5	----	-19.3	0.2	----	9.5	----	9.3	----	-
5	306.2500	19.6	----	-19.2	0.4	----	9.5	----	9.1	----	-
6	367.5000	19.9	----	-19.4	0.5	----	9.5	----	9.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	67.2500	20.3	----	-20.3	0.0	----	9.5	----	9.5	----	-
2	134.5000	19.0	----	-19.9	-0.9	----	9.5	----	10.4	----	-
3	201.7500	19.1	----	-19.4	-0.3	----	9.5	----	9.8	----	-
4	269.0000	20.4	----	-19.2	1.2	----	9.5	----	8.3	----	-
5	336.2500	21.1	----	-19.3	1.8	----	9.5	----	7.7	----	-
6	403.5000	21.5	----	-19.7	1.8	----	9.5	----	7.7	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	67.2500	20.9	----	-20.3	0.6	----	9.5	----	8.9	----	-
2	134.5000	20.6	----	-19.9	0.7	----	9.5	----	8.8	----	-
3	201.7500	20.8	----	-19.4	1.4	----	9.5	----	8.1	----	-
4	269.0000	20.2	----	-19.2	1.0	----	9.5	----	8.5	----	-
5	336.2500	21.3	----	-19.3	2.0	----	9.5	----	7.5	----	-
6	403.5000	21.1	----	-19.7	1.4	----	9.5	----	8.1	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback:4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	67.2500	21.1	----	-20.3	0.8	----	9.5	----	8.7	----	-
2	134.5000	20.5	----	-19.9	0.6	----	9.5	----	8.9	----	-
3	201.7500	20.4	----	-19.4	1.0	----	9.5	----	8.5	----	-
4	269.0000	21.1	----	-19.2	1.9	----	9.5	----	7.6	----	-
5	336.2500	21.0	----	-19.3	1.7	----	9.5	----	7.8	----	-
6	403.5000	21.4	----	-19.7	1.7	----	9.5	----	7.8	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : VRDVD4100BA
TEMP./HUMID. : 21 /41%

REPORT NO : 26CE0157-YW-1
DATE : October 22,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play:4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	67.2500	20.8	----	-20.3	0.5	----	9.5	----	9.0	----	-
2	134.5000	20.7	----	-19.9	0.8	----	9.5	----	8.7	----	-
3	201.7500	20.0	----	-19.4	0.6	----	9.5	----	8.9	----	-
4	269.0000	19.0	----	-19.2	-0.2	----	9.5	----	9.7	----	-
5	336.2500	20.5	----	-19.3	1.2	----	9.5	----	8.3	----	-
6	403.5000	21.5	----	-19.7	1.8	----	9.5	----	7.7	----	-

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

Picture Sensitivity Test

UL Apex Co.,Ltd.

Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
 Equipment : DVD/VCR
 Model Number : VRDVD4100BA
 Power : 120V/60Hz
 Description : TV Reception
 Remarks : -

Report Number : 25CE0157-YW-1
 Regulation : FCC Part15 Subpart B
 Date : October 20 ,2005
 Temp / Humid : 23deg.C / 45%
 Engineer : Tsubasa Takayama

Ch [VHF]	Frequency [MHz]	Sensitivity [MHz]		Ch [UHF]	Frequency [MHz]	Sensitivity [MHz]	
		[dBμV]	[μV]			[dB μ V]	[μ V]
2	55.25	15.0	5.6	14	471.25	17.3	7.3
3	61.25	13.2	4.6	20	507.25	18.0	7.9
4	67.25	13.2	4.6	26	543.25	18.6	8.5
5	77.25	13.0	4.5	32	579.25	19.6	9.5
6	83.25	12.9	4.4	38	615.25	19.3	9.2
7	175.25	15.3	5.8	44	651.25	19.7	9.7
8	181.25	15.4	5.9	50	687.25	19.6	9.5
9	187.25	15.2	5.8	56	723.25	19.7	9.7
10	193.25	15.3	5.8	62	759.25	19.7	9.7
11	199.25	15.3	5.8	69	801.25	19.9	9.9
12	205.25	15.4	5.9	-	-	-	-
13	211.25	15.4	5.9	-	-	-	-
Average VHF			5.4	Average UHF			9.1
Average UHF/VHF : $20 \log \text{UHF}[\mu\text{V}] / \text{VHF}[\mu\text{V}] =$				4.6	[Limit : 8.0dB]		

Noise Figure Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : VRDVD4100BA
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 25CE0157-YW-1
Regulation : FCC Part15 Subpart B
Date : October 20 ,2005
Temp / Humid : 23deg.C / 45%
Engineer : Tsubasa Takayama

Ch	Frequency [MHz]	Meter Reading [dB]	Correction Factor [dB]	Noise Figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	5.0	0.2	4.8	14.0	9.2
3	61.25	4.0	0.2	3.8	14.0	10.2
4	67.25	3.5	0.2	3.3	14.0	10.7
5	77.25	2.6	0.2	2.4	14.0	11.6
6	83.25	2.5	0.2	2.3	14.0	11.7
7	175.25	4.7	0.2	4.5	14.0	9.5
8	181.25	4.5	0.2	4.3	14.0	9.7
9	187.25	4.2	0.2	4.0	14.0	10.0
10	193.25	4.1	0.2	3.9	14.0	10.1
11	199.25	4.3	0.2	4.1	14.0	9.9
12	205.25	4.4	0.2	4.2	14.0	9.8
13	211.25	4.5	0.2	4.3	14.0	9.7
TV UHF Fundamental						
14	471.25	5.4	0.3	5.1	14.0	8.9
20	507.25	6.2	0.3	5.9	14.0	8.1
26	543.25	6.6	0.3	6.3	14.0	7.7
32	579.25	7.0	0.3	6.7	14.0	7.3
38	615.25	8.3	0.3	8.0	14.0	6.0
44	651.25	7.7	0.3	7.4	14.0	6.6
50	687.25	6.5	0.3	6.2	14.0	7.8
56	723.25	5.8	0.4	5.4	14.0	8.6
62	759.25	5.5	0.4	5.1	14.0	8.9
69	801.25	5.6	0.4	5.2	14.0	8.8
Mid band						
14	121.25	2.6	0.2	2.4	14.0	11.6
16	133.25	7.2	0.2	7.0	14.0	7.0
18	145.25	6.9	0.2	6.7	14.0	7.3
20	157.25	5.3	0.2	5.1	14.0	8.9
22	169.25	4.7	0.2	4.5	14.0	9.5
Super band						
23	217.25	4.7	0.2	4.5	14.0	9.5
26	235.25	5.2	0.2	5.0	14.0	9.0
29	253.25	5.5	0.2	5.3	14.0	8.7
32	271.25	5.9	0.2	5.7	14.0	8.3
36	295.25	6.0	0.2	5.8	14.0	8.2

APPENDIX 3

Test Instruments

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
APVBT01	VIDEO BOOSTER	UL Apex	-	RF, ATS	-
APTVG01	TV Generator	Leader	408NPS	RF, ATS	Pre Check
APSPA04	Spectrum Analyzer	Advantest	R3265	AT, RF, ATS	2005/05/06 * 12
IP-06	Matching Pad	TME	ZT-301	PS, NF	2005/05/17 * 12
IP-03	Matching Pad	TME	ZT-130	AT, RF, ATS	2005/09/30 * 12
APNFM02	Noise Figure Analyzer	Agilent	N8973A	NF	2005/08/25 * 12
APNFS02	Noise Source	Agilent	346A	NF	2005/08/02 * 12
AV01-01	Signal Generator	Rohde & Schwarz	SMY01	PS	2005/02/23 * 12
AF-05	Pre Amplifier	Hewlett Packard	8447D	AT, RF, ATS	2005/07/12 * 12
AF-06	Pre Amplifier	Agilent	HP8449B	AT	2005/07/14 * 12
APCBL-01	Coaxial Cable	Fujikura	5D-2W	AT, RF, ATS	2005/11/01 * 12
APCBL-02	Coaxial Cable	Fujikura	5D-2W	AT, RF, ATS	2005/11/01 * 12
OS-02	Digital Humidity Indicator	SATO	PC-5000TRH-	AT, RF, ATS, PS, NF	2004/04/06 * 24
AF-01	Pre Amplifier	Hewlett Packard	8447D	RE	2005/03/25 * 12
AF-06	Pre Amplifier	Agilent	HP8449B	RE	2005/07/14 * 12
AT-06	Attenuator	Anritsu	MP721B	RE	2005/07/11 * 12
BA-06	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/01/29 * 12
HA-02	Horn Antenna	A.H.Systems	SAS-200/571	RE	2005/04/06 * 12
LA-07	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2005/01/29 * 12
SA-06	Spectrum Analyzer	Advantest	R3273	RE, CE	2005/11/01 * 12
TR-06	Test Receiver	Rohde & Schwarz	ESVS10	RE	2005/11/01 * 12
CC-3ORC	Yokowa No.3 open coaxial(0.01-1000MHz)	UL Apex	CC-31,CC-32,CC-33,CC-34,CC-35,CC-36,CC-37,SW-31,SW-32	RE	2005/03/25 * 12
YOATS-03	Open Test Site	JSE	3m, 10m	RE	2005/05/04 * 12
OS-16	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/05/07 * 24
CC-C3	Microwave Cable	-	-	RE	2004/12/16 * 12
LS-07	LISN(AMN)	Schwarzbeck	NSLK8126	CE	2005/07/11 * 12
LS-04	LISN(AMN)	Rohde & Schwarz	ESH3-Z5	CE (EUT)	2005/11/01 * 12
TR-05	Test Receiver	Rohde & Schwarz	ESHS10	CE	2005/11/01 * 12
OS-11	Digital Humidity Indicator	SATO	PC-5000TRH	CE	2004/04/20 * 24
SS-05	Digitizing Oscilloscope	Sony Tektronix	2221	PS	2005/01/11 * 12
APBPF01	Band pass filter	Erika Fiedler	BP	PS	2005/04/22 * 12
DA-10	Dipole Antenna	Schwarzbeck	UHA9105	RE	2005/02/12 * 12
APANT08	Loop Antenna	Rohde & Schwarz	HFH2-Z2	RE	2005/09/09 * 12

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

Test Item :

CE: Conducted emission

RE: Radiated emission

AT: Antenna terminal disturbance voltage

RF: RF output level & spurious

ATS: Antenna transfer switch

PS: Picture sensitivity

NF: Noise figure