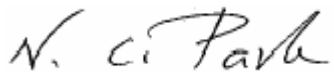


EMC Test Report

According to FCC Part 15 Subpart B

Project No.	LBE041723
Equipment under Test	
Address	416 Maetan3-Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea, 443-742
Product Name	DVD Recorder / Video Cassette Recorder
Model Name	RDR-VX500
Manufacturer	SAMSUNG
Brand Name	SONY
Broadcasting System	NTSC-M
Variant Model	See Page 3
Date of Test	August 24 ~ 27, 2004
Issued Date	August 30, 2004

	Name/Position	Signature
Tested by	Tae Young JANG Test Engineer	
Reviewed by	No Cheon, Park Manager of EMC Lab.	
Authorized by	Kyu Baek, Chung Chief of EMC Lab.	

1. This test reports does not constitute an endorsement by NIST/NVLAP or U.S Government.
 2. This test report is to certify that the tested device properly complies with the requirements of FCC Rules and Regulations Part 15 Subpart B Unintentional Radiators.
- All tests necessary to show compliance to the requirements were and these results met the specifications requirement.

This laboratory is registered by the NIST/NVLAP, U.S.A.

The test reported herein have been performed in accordance with its terms of registration.



NVLAP LAB CODE 200623-0

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1. General Information

1.1 Basic Information related Product

Applicant	Samsung Electronics Co. Ltd;
Model name	RDR-VX500
Applicant Address	Samsung Electronics Co. Ltd; 416 Maetan3- Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea, 443-742
Contact Person	WOOSUNG CHO
Kind of product	DVD Recorder / Video Cassette Recorder
Valiant list	None
Manufacturer	Samsung Electronics Co.Ltd;

1.2 Detail Information related Product

Specification

Gerneral	Power Requirment	120V AC, 60Hz
	Power Consumption	42Watts
	Weight	5.6 kg
	Dimensions	430mm(W)*321mm(D)*84mm(H)
Input	Video(1,2,3)	1.0V p-p at 75ohm load, sync negative
		S-Vedio input(Y:1.0V p-p,C:0.286V p-p at 75 ohm load)
	Max. Audio Inout Level	2 Vrms
	DV Input	IEEE 1394(4p) compatible jack
	Receivable Channels	Regular TV broadcasting : VHF(2~13),UHF(14~60)
		Cable TV broadcasting : 1 ~125
Output	Audio	Audio input jacks 1,2
		Optical/Coaxial digital audio output support
		Min 100dB signal-to-noise ratio
		Max. 0.005% total harmonic distortion(T.H.D) at average 1kHz
	Video	Video input jacks 1,2
		S-video output 1,2(Y:1.0V p-p,C:0.286Vp-p, at 75 ohm load)
		Component output(Y:1.0Vp-p,Pb:0.70Vp-p, Pr:0.70Vp-p at 75 ohm load)
DVD	Picture Compression format	MPEG-II
	Audio Compression format	Dolby AC-3 256kbps
	Recording Quality	LP(2 Mbps), SP(4 Mbps), XP(8 Mbps)
	Video S/N Ratio	Min. 50dB at standard recording
	Audio S/N Ratio	Min. 75dB
	Audio frequency characteristics	20Hz ~ 20kHz

1.3 Operating Mode and Condition

The EUT was tested in the following operating modes(at both channel 3 and 4) for the tests mention in this report :

1) DVD Recording (NTSC Signal)

A NTSC signal(Color bar) was supplied at ch.69(801.25MHz) through the ant. Input connector

2) DVD Recording (1V VITS Signal)

A 1V peak-to-peak VITS signal was supplied through the video input connector for recording.

3) DVD Recording (5V VITS Signal)

A 5V peak-to-peak VITS signal was supplied through the video input connector for recording.

4) DVD Play

In this test mode, a DVD recorded with NTSC signal was played on the EUT.

5) DVD Copy mode

In this test mode, a video tape recorded with NTSC signal copy to DVD disc.

6) VCR Recording (NTSC Signal)

A NTSC signal(Color bar) was supplied at ch.5(77.25MHz) through the ant. Input connector

7) VCR Recording (1V VITS Signal)

A 1V peak-to-peak VITS signal was supplied through the video input connector for recording.

8) VCR Recording (5V VITS Signal)

A 5V peak-to-peak VITS signal was supplied through the video input connector for recording.

9) VCR Play

In this test mode, a video tape recorded with VITS signal was played on the EUT.

10) VCR Copy mode

Note: The NTSC TV signal input record mode is not applicable to the antenna transfer switch test.

1.4 Equipment Modifications

No equipment modifications were required.

1.5 Test Configuration

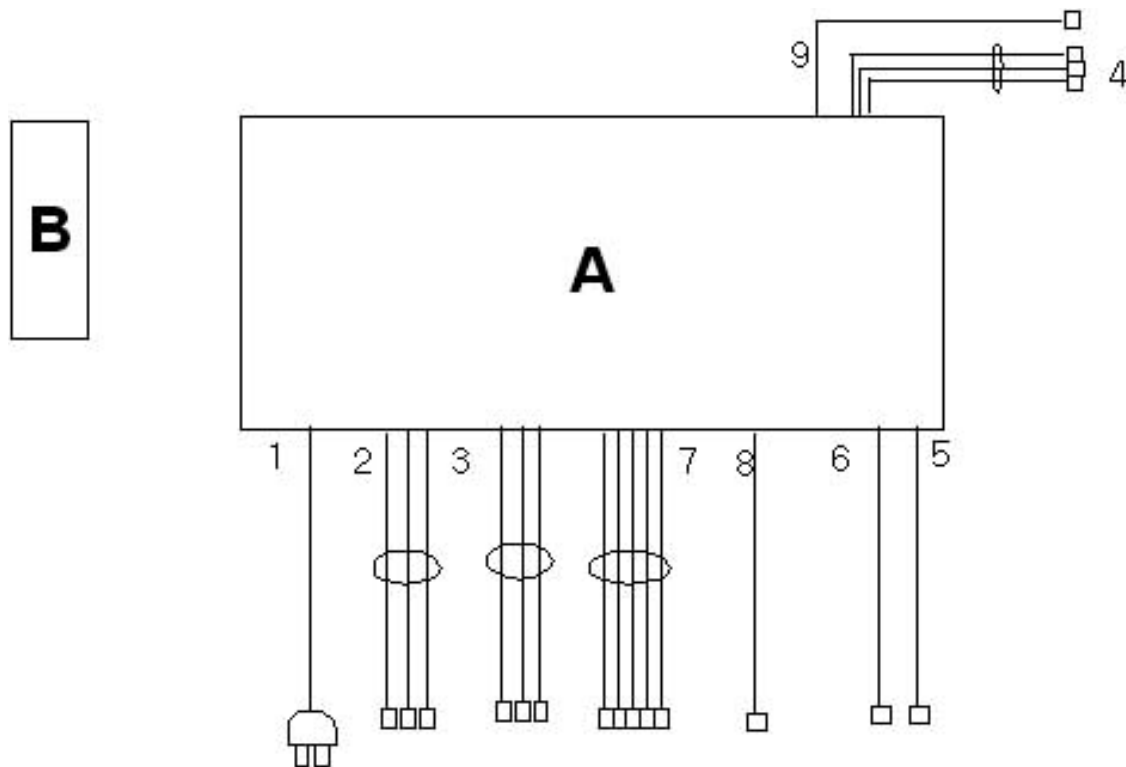
Used EUT and Peripherals

Seq	Device	Model Name	Serial #	Maker	Note
A	DVD Combo	RDR-VX500	-	SAMSUNG	EUT
B	Remote Controller	-	-	SAMSUNG	EUT

Used Cable Description

	Connect Cable	Length [m]	Shielded [Y/N]	Remark
1	AC Power Cable	1.5	N	to the mains
2	AV In Cable	1.2	N	Terminated video : 75 ohm Audio In : 1k ohm
3	AV Out Cable	1.2	N	Terminated video : 75 ohm Audio In : 10k ohm
4	Front AV In Cable	1.2	N	Terminated video : 75 ohm Audio In : 1k ohm
5	RF In Cable	1.5	Y	75 ohm Terminated
6	RF Out Cable	1.2	Y	75 ohm Terminated
7	Component	1.2	N	Terminated video : 75 ohm Audio In : 1k ohm
8	S-Video	1.5	N	Terminated
9	S-Video	1.5	N	Terminated

Block Diagram



1.6 Applied Standards

List

Applied Standards	Test Procedure
FCC Part15 Subpart B	ANSI 63.4 : 2000

1.7 Test Facility

General Information

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22, 16-1, 16-2, 11.

This EMC Testing Lab. is accredited by Korea Laboratory Accreditation Scheme(KOLAS) which signed the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the above test item(s) and test method(s).

This Lab. is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:1998.

Accreditation and Listing



Uncertainty

(According to NAMAS Pub.NIS81)

Test Item	Expanded Uncertainty
Radiated Disturbance	5.09
Disturbance voltage at the mains terminals	1.64

2. Summary of Test Results

Result : PASS

The equipment under test(EUT) has been found to comply with the applied standards.

Test Name		Applied Standard	Result
Electromagnetic Emission Test			
3.1	Conducted Emission	FCC Part15 Subpart B	Complied
3.2	Radiated Emission	FCC Part15 Subpart B	Complied
3.3	Output Signal Level	FCC Part15:2003-10-01 Class B	Complied
3.4	Output Terminal Conducted Spurious Emission	FCC Part15:2003-10-01 Class B	Complied
3.5	Ant. Transfer Switch	FCC Part15:2003-10-01 Class B	Complied

3. Description of Individual Tests

3.1 Conducted Emission

Test Information		
	Test Engineer	Tae Young JANG
	Test Date	August 26, 2004
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 37%
	Test Place	Shield Room #5

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
Field strength meter	ESI	R&S	832692/002	2005-05-24	12
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2004-09-20	12
L.I.S.N	ESH3-Z5	R&S	100262	2005-02-11	12
Field strength meter	ESS	R&S	844661	2005-01-05	12
RF Relais Matrix	PSU	R&S	861206/024	N/A	12
Test Software	EP5CE	TOYO	None	N/A	N/A

EUT Test Setup

The EUT was set up as per normal use on a wooden table 0.4m from a vertical ground reference plane, at least 0.8m from other conduction surfaces and 0.8m from the LISN.
See photo..

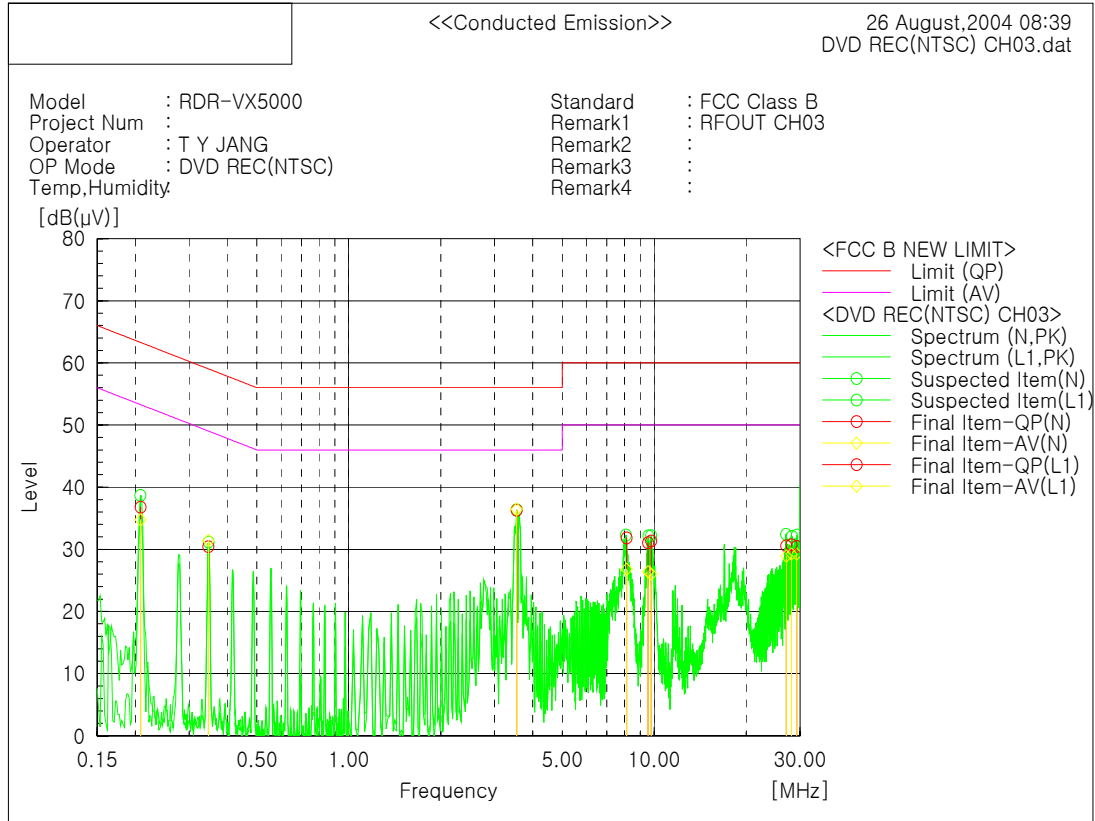
Test Result

Measurement Results	Pass
---------------------	------

Test Data

■ Operating Mode : DVD REC(NTSC)_CH03

[Graph and Data]



Final Result

--- N Phase ---

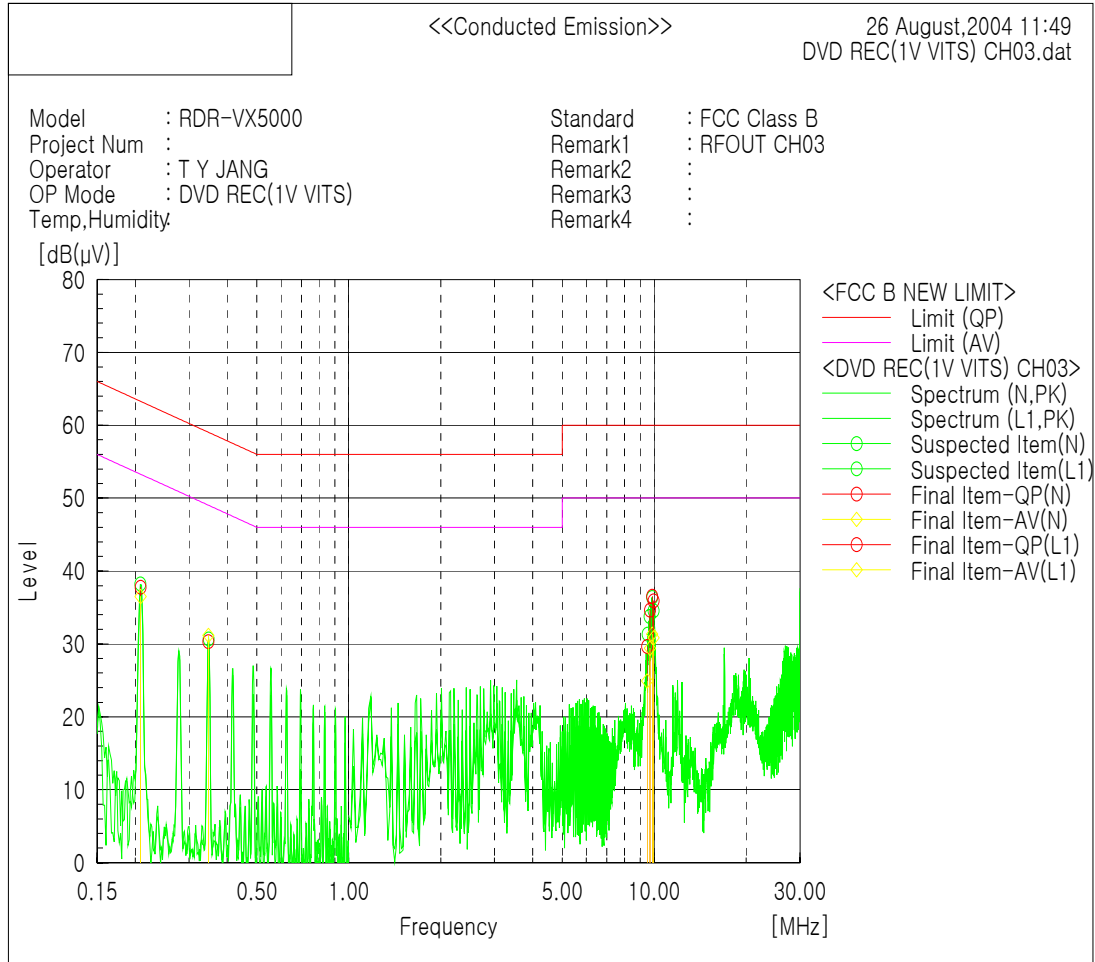
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	3.54841	36.1	36.3	0.2	36.3	36.5	56.0	46.0	19.7	9.5
2	9.77266	31.2	25.8	0.2	31.4	26.0	60.0	50.0	28.7	24.0
3	29.29038	30.5	29.2	0.0	30.5	29.2	60.0	50.0	29.5	20.8

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.20825	36.7	34.7	0.1	36.8	34.8	63.3	53.3	26.5	18.5
2	0.34708	30.3	31.3	0.1	30.4	31.4	59.0	49.0	28.6	17.6
3	8.12091	31.7	26.7	0.1	31.8	26.8	60.0	50.0	28.2	23.2
4	9.55875	30.9	26.2	0.2	31.1	26.4	60.0	50.0	28.9	23.6
5	27.07195	30.1	28.4	0.5	30.6	28.9	60.0	50.0	29.5	21.1
6	28.18216	30.1	28.6	0.6	30.7	29.2	60.0	50.0	29.3	20.8

■ Operating Mode : DVD REC(1V VITS)_CH03

[Graph and Data]



Final Result

--- N Phase ---

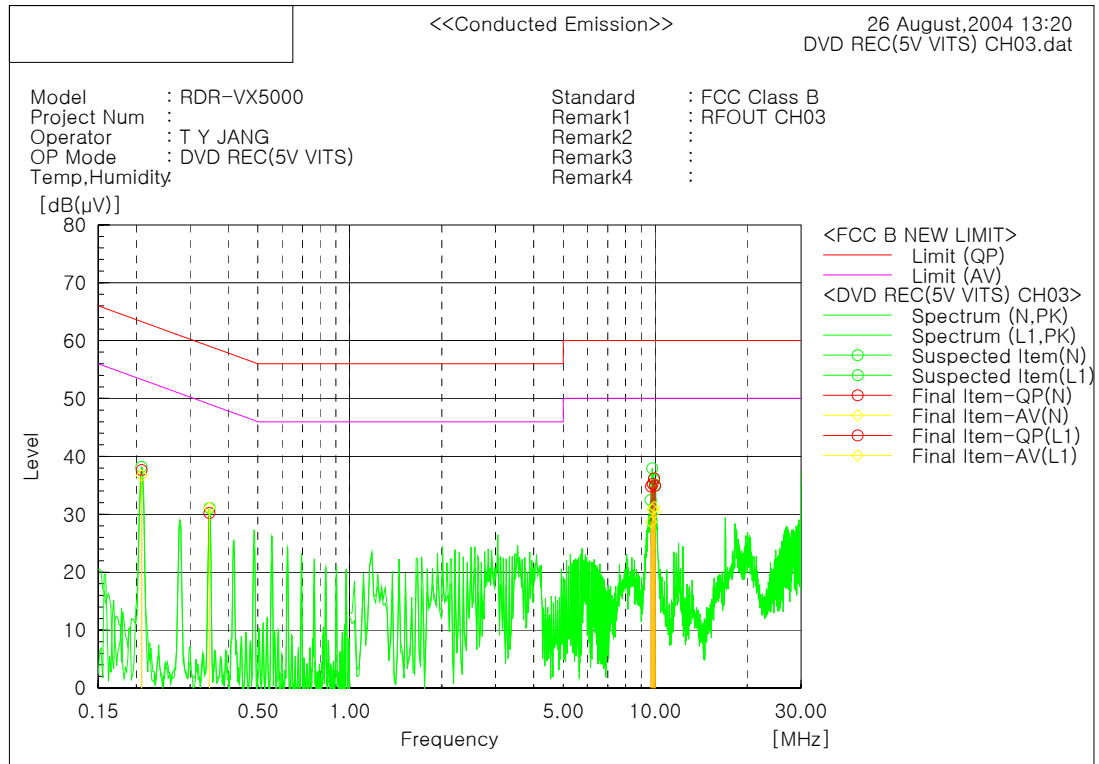
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20815	37.7	36.4	0.1	37.8	36.5	63.3	53.3	25.5	16.8
2	9.84949	36.3	31.1	0.2	36.5	31.3	60.0	50.0	23.5	18.7

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.34691	30.2	31.1	0.1	30.3	31.2	59.0	49.0	28.7	17.8
2	9.48101	29.5	24.7	0.2	29.7	24.9	60.0	50.0	30.3	25.1
3	9.69546	34.4	29.2	0.2	34.6	29.4	60.0	50.0	25.4	20.6
4	9.96582	35.7	30.7	0.2	35.9	30.9	60.0	50.0	24.1	19.1

■ Operating Mode : DVD REC(5V VITS)_CH03

[Graph and Data]



Final Result

--- N Phase ---

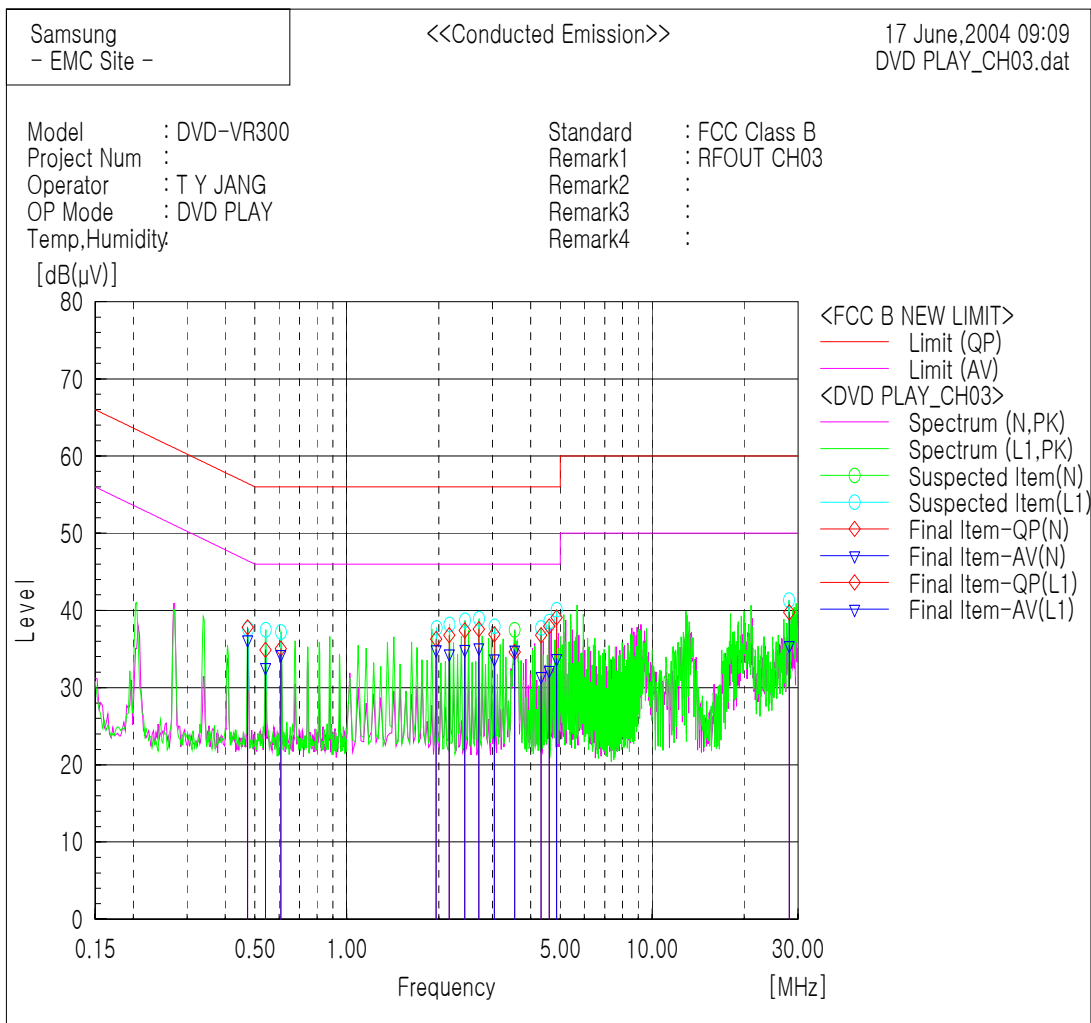
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20813	37.6	36.6	0.1	37.7	36.7	63.3	53.3	25.7	16.6
2	9.9853	34.7	30.2	0.2	34.9	30.4	60.0	50.0	25.1	19.6

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.34684	30.1	31.1	0.1	30.2	31.2	59.0	49.0	28.8	17.9
2	9.69564	34.6	28.5	0.2	34.8	28.7	60.0	50.0	25.2	21.3
3	9.81161	35.1	30.7	0.2	35.3	30.9	60.0	50.0	24.7	19.1
4	9.9274	36.0	31.1	0.2	36.2	31.3	60.0	50.0	23.8	18.7

■ Operating Mode : DVD PLAY_CH03

[Graph and Data]



Final Result

--- N Phase ---

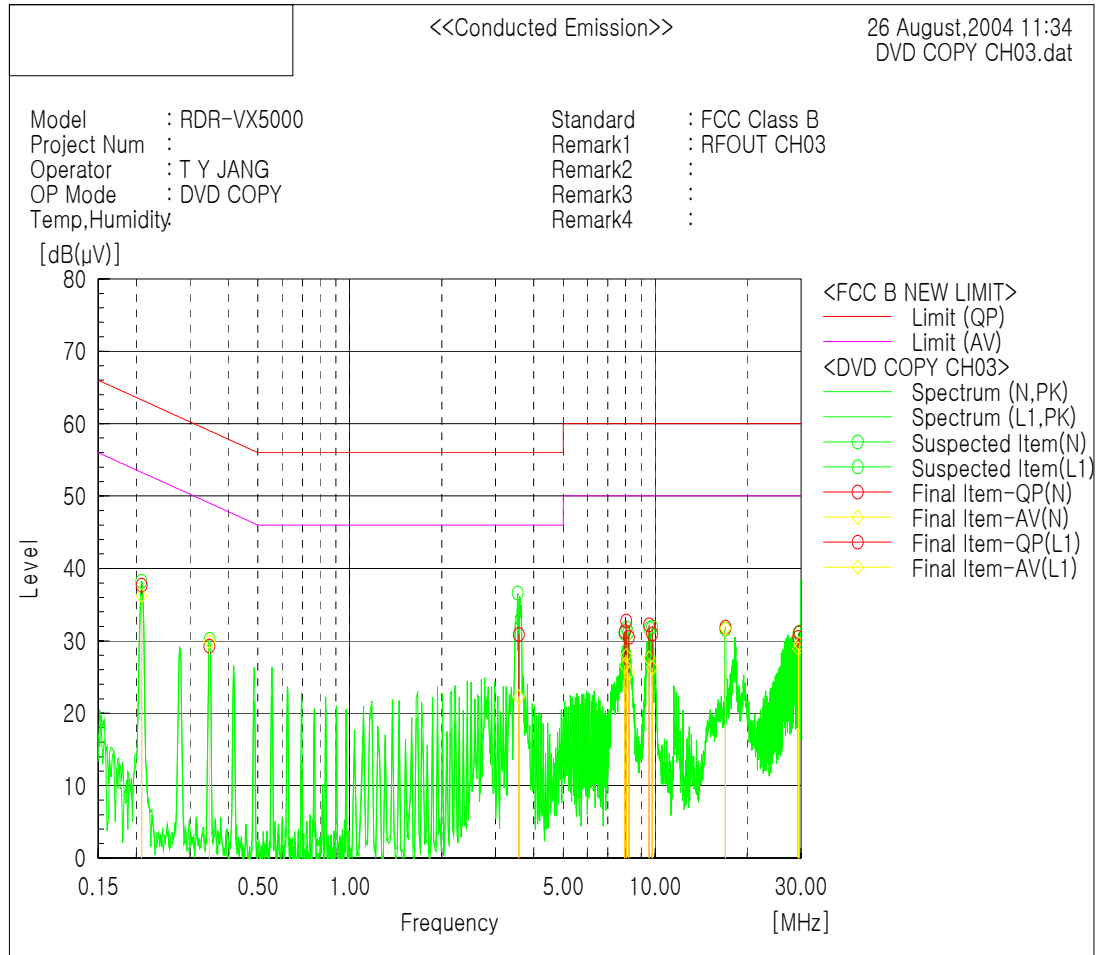
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	3.5484	34.5	34.8	0.1	34.6	34.9	56.0	46.0	21.4	11.1

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.47372	37.7	36.1	0.1	37.8	36.2	56.4	46.4	18.6	10.2
2	0.54168	34.8	32.5	0.1	34.9	32.6	56.0	46.0	21.1	13.4
3	0.60858	35.0	34.2	0.1	35.1	34.3	56.0	46.0	21.0	11.7
4	1.9617	36.2	34.8	0.1	36.3	34.9	56.0	46.0	19.7	11.1
5	2.1642	36.7	34.3	0.1	36.8	34.4	56.0	46.0	19.2	11.6
6	2.4353	37.3	34.9	0.1	37.4	35.0	56.0	46.0	18.6	11.0
7	2.7048	37.5	35.1	0.1	37.6	35.2	56.0	46.0	18.4	10.8
8	3.0428	36.8	33.6	0.1	36.9	33.7	56.0	46.0	19.1	12.3
9	4.3282	36.8	31.5	0.0	36.8	31.5	56.0	46.0	19.2	14.5
10	4.600	38.0	32.3	0.0	38.0	32.3	56.0	46.0	18.1	13.7
11	4.8696	39.1	33.8	0.0	39.1	33.8	56.0	46.0	16.9	12.2
12	28.128	39.3	35.0	0.5	39.8	35.5	60.0	50.0	20.2	14.6

■ Operating Mode : DVD COPY_CH03

[Graph and Data]



Final Result

--- N Phase ---

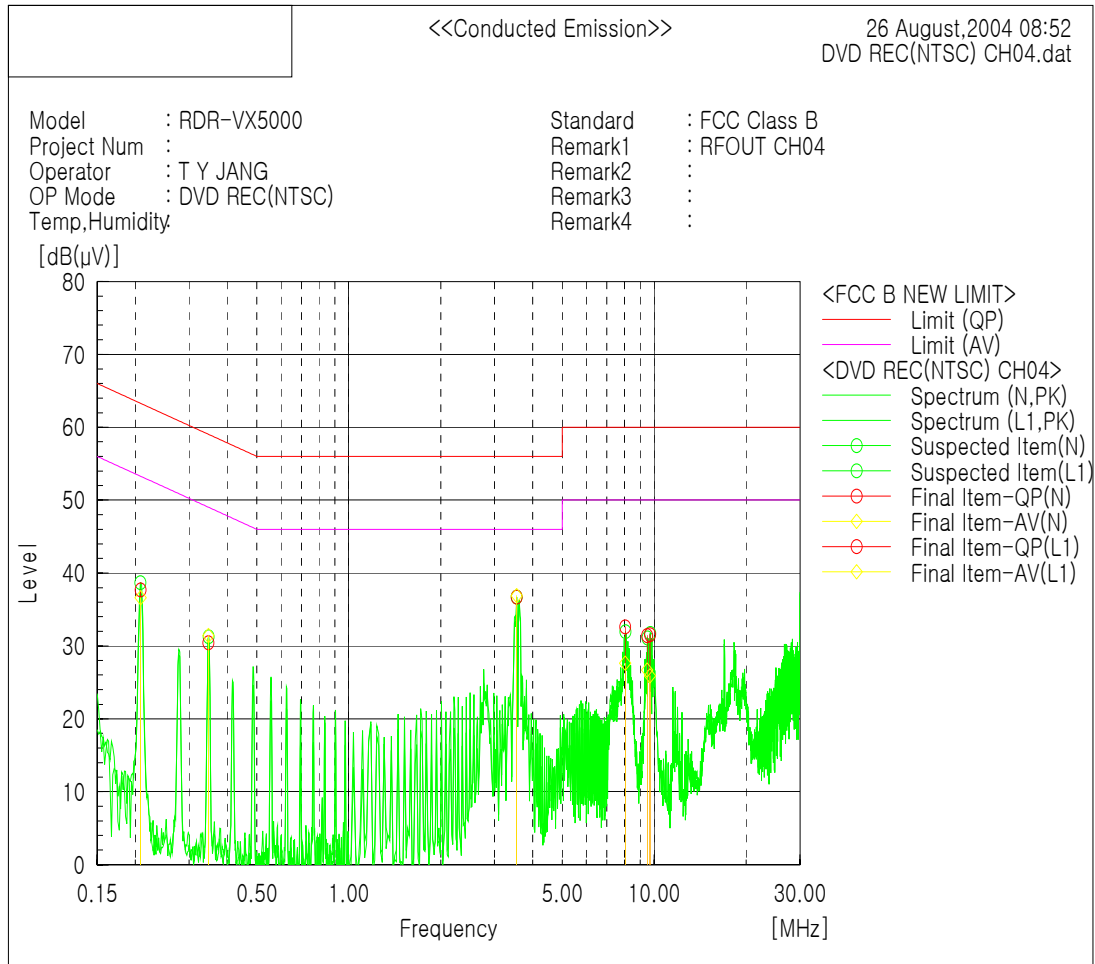
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20818	37.6	36.2	0.1	37.7	36.3	63.3	53.3	25.6	17.0
2	0.34692	29.2	29.8	0.1	29.3	29.9	59.0	49.0	29.7	19.1
3	3.57979	30.7	22.1	0.2	30.9	22.3	56.0	46.0	25.1	23.7
4	8.19919	30.4	25.5	0.1	30.5	25.6	60.0	50.0	29.5	24.4
5	9.55965	32.0	27.4	0.2	32.2	27.6	60.0	50.0	27.8	22.4

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	7.95805	31.2	26.5	0.1	31.3	26.6	60.0	50.0	28.7	23.4
2	8.04444	32.7	27.9	0.1	32.8	28.0	60.0	50.0	27.2	22.1
3	9.77266	30.8	26.1	0.2	31.0	26.3	60.0	50.0	29.0	23.7
4	16.9986	30.7	30.6	1.2	31.9	31.8	60.0	50.0	28.1	18.3
5	29.41864	29.8	28.2	0.7	30.5	28.9	60.0	50.0	29.5	21.1
6	29.62706	30.4	28.9	0.7	31.1	29.6	60.0	50.0	28.9	20.4

■ Operating Mode : DVD REC(NTSC)_CH04

[Graph and Data]



Final Result

--- N Phase ---

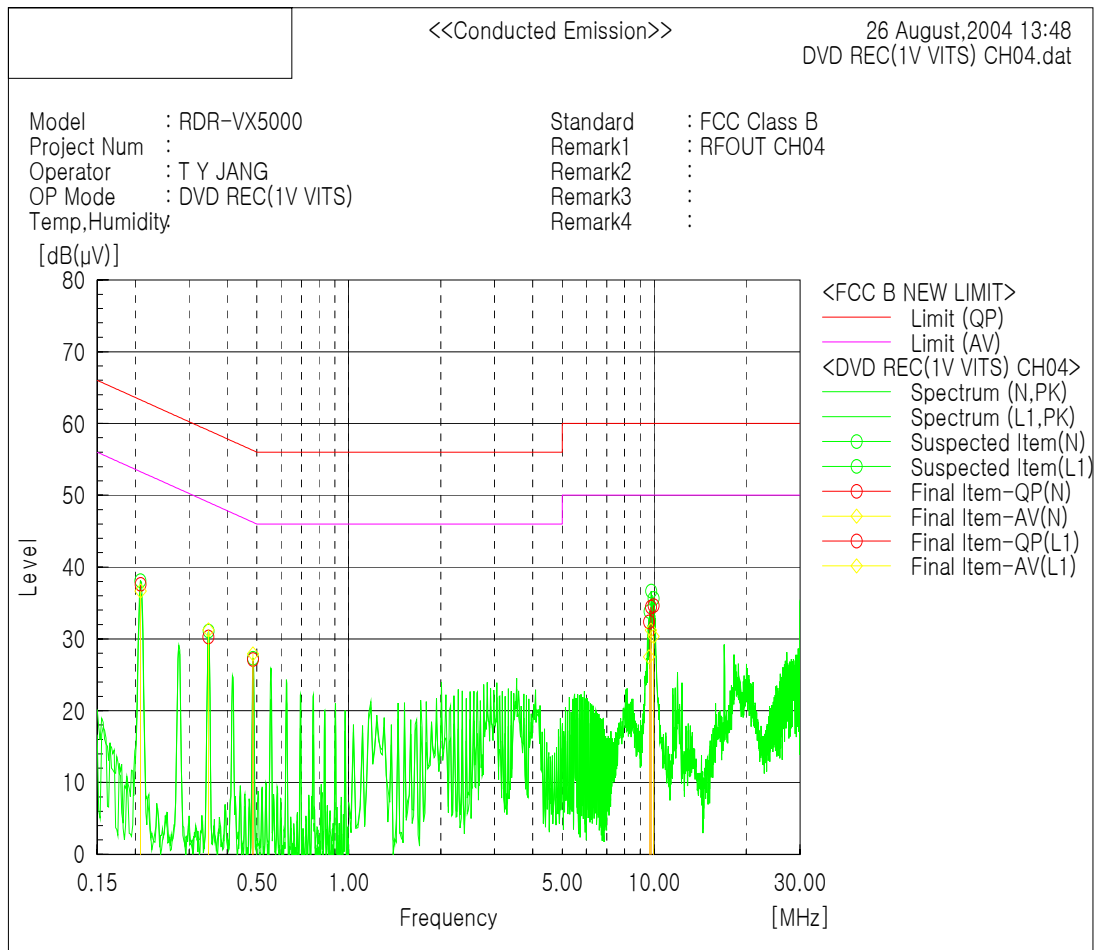
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20823	37.6	36.5	0.1	37.7	36.6	63.3	53.3	25.6	16.7
2	3.54841	36.5	36.7	0.2	36.7	36.9	56.0	46.0	19.3	9.1
3	8.04408	32.5	27.5	0.1	32.6	27.6	60.0	50.0	27.4	22.4
4	9.6951	31.4	25.7	0.2	31.6	25.9	60.0	50.0	28.5	24.1

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.34708	30.3	31.3	0.1	30.4	31.4	59.0	49.0	28.6	17.6
2	9.48137	31.2	26.5	0.2	31.4	26.7	60.0	50.0	28.6	23.3

■ Operating Mode : DVD REC(1V VITS)_CH04

[Graph and Data]



Final Result

--- N Phase ---

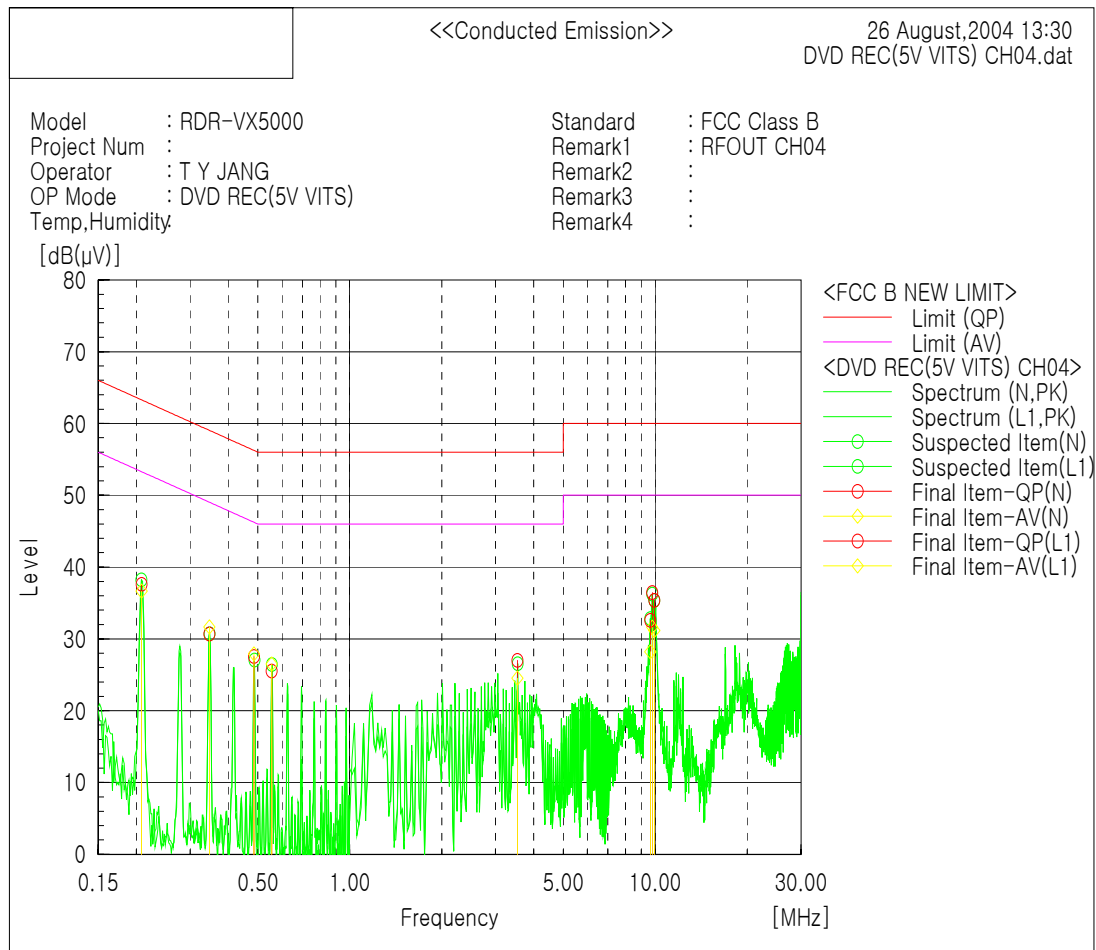
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.20813	37.5	36.6	0.1	37.6	36.7	63.3	53.3	25.7	16.6
2	0.4857	27.0	27.7	0.2	27.2	27.9	56.2	46.2	29.1	18.3
3	9.61809	32.2	27.3	0.2	32.4	27.5	60.0	50.0	27.6	22.5
4	9.7539	34.2	31.0	0.2	34.4	31.2	60.0	50.0	25.6	18.8

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.34691	30.2	31.1	0.1	30.3	31.2	59.0	49.0	28.7	17.8
2	9.96618	34.5	30.1	0.2	34.7	30.3	60.0	50.0	25.4	19.7

■ Operating Mode : DVD REC(5V VITS)_CH04

[Graph and Data]



Final Result

--- N Phase ---

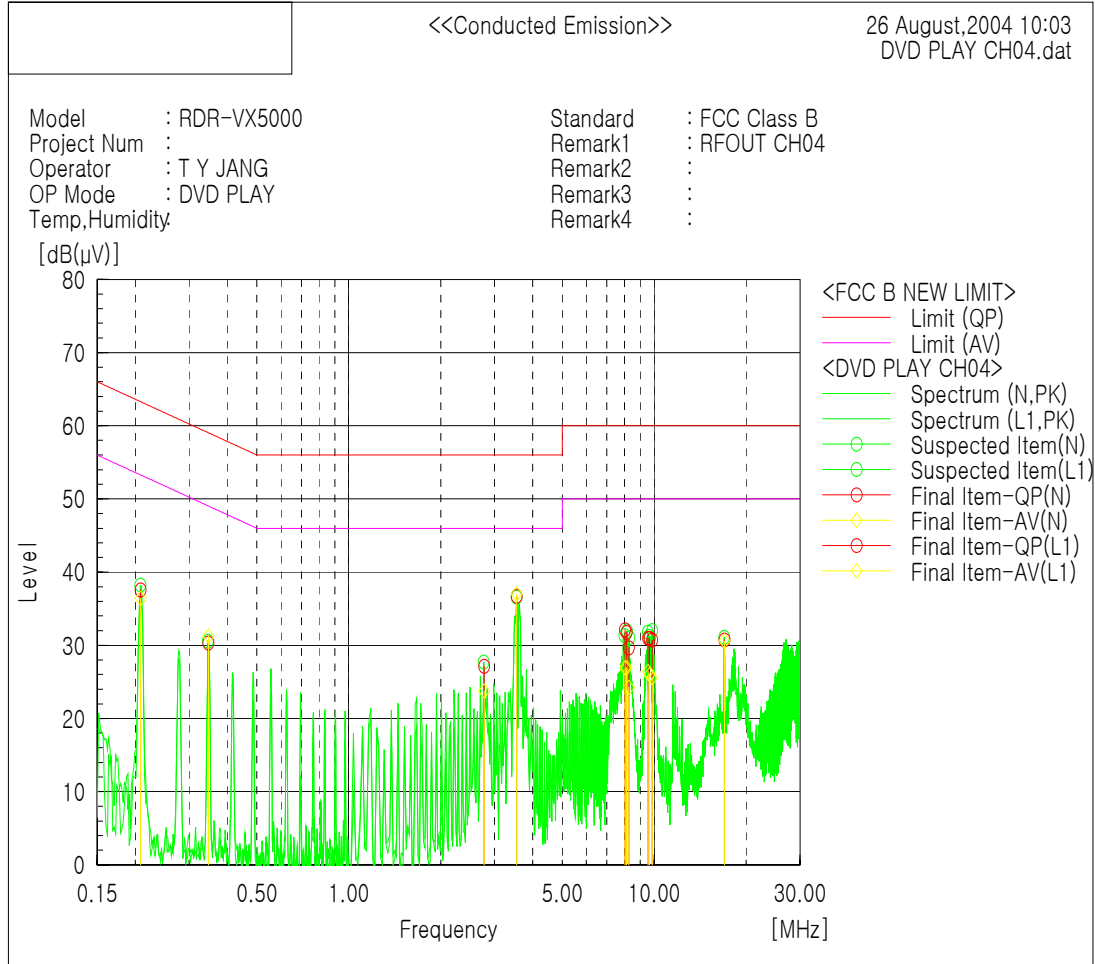
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.20815	37.5	36.6	0.1	37.6	36.7	63.3	53.3	25.7	16.7
2	0.48568	27.3	27.7	0.2	27.5	27.9	56.2	46.2	28.7	18.3
3	9.77266	36.3	31.4	0.2	36.5	31.6	60.0	50.0	23.5	18.4
4	9.94688	35.2	31.0	0.2	35.4	31.2	60.0	50.0	24.6	18.8

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.34692	30.6	31.6	0.1	30.7	31.7	59.0	49.0	28.3	17.4
2	0.55508	25.4	26.4	0.1	25.5	26.5	56.0	46.0	30.5	19.5
3	3.53885	26.8	24.3	0.2	27.0	24.5	56.0	46.0	29.0	21.5
4	9.63666	32.4	28.0	0.2	32.6	28.2	60.0	50.0	27.4	21.8

■ Operating Mode : DVD PLAY_CH04

[Graph and Data]



Final Result

--- N Phase ---

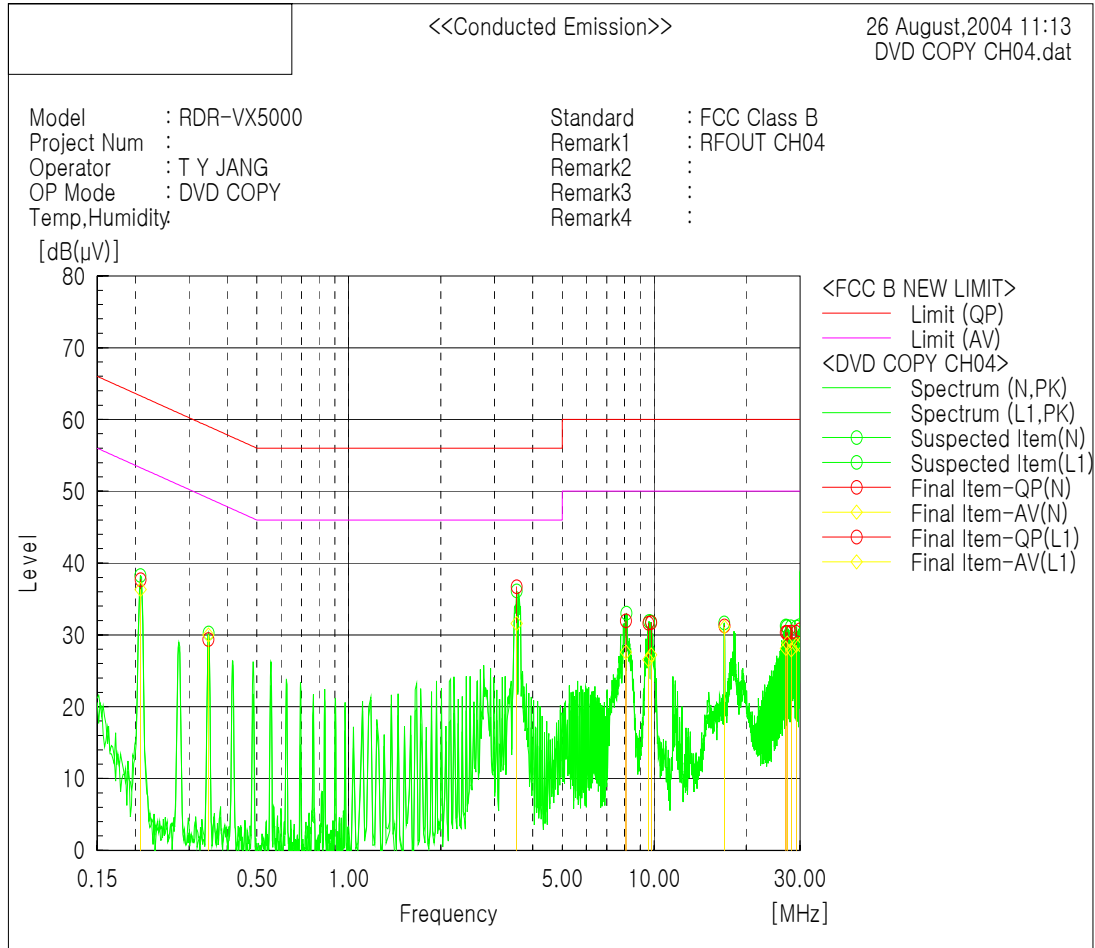
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20816	37.5	36.3	0.1	37.6	36.4	63.3	53.3	25.7	16.9
2	3.54841	36.5	36.9	0.2	36.7	37.1	56.0	46.0	19.3	9.0
3	8.12326	31.7	26.8	0.1	31.8	26.9	60.0	50.0	28.2	23.1
4	8.25618	29.5	24.1	0.1	29.6	24.2	60.0	50.0	30.4	25.8
5	9.56019	30.8	26.2	0.2	31.0	26.4	60.0	50.0	29.0	23.6
6	9.65668	30.7	25.8	0.2	30.9	26.0	60.0	50.0	29.1	24.0
7	9.84985	30.5	25.4	0.2	30.7	25.6	60.0	50.0	29.3	24.4

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.34696	30.2	31.2	0.1	30.3	31.3	59.0	49.0	28.7	17.7
2	2.77556	27.0	23.6	0.2	27.2	23.8	56.0	46.0	28.9	22.2
3	8.02694	32.0	26.8	0.1	32.1	26.9	60.0	50.0	27.9	23.1
4	16.9986	29.5	29.4	1.2	30.7	30.6	60.0	50.0	29.3	19.4

■ Operating Mode : DVD COPY_CH04

[Graph and Data]



Final Result

--- N Phase ---

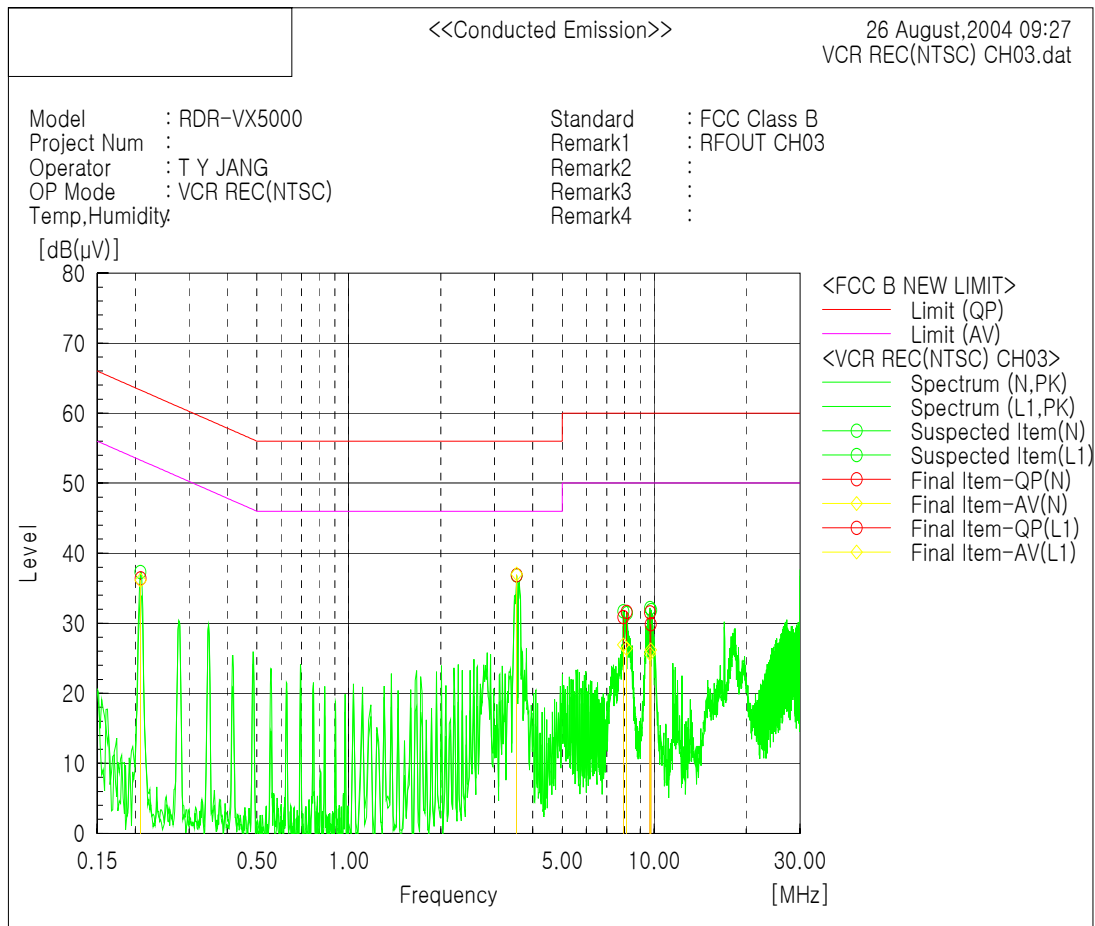
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20813	37.6	36.2	0.1	37.7	36.3	63.3	53.3	25.6	17.0
2	0.34689	29.3	29.9	0.1	29.4	30.0	59.0	49.0	29.7	19.0
3	3.54841	36.5	31.4	0.2	36.7	31.6	56.0	46.0	19.3	14.4
4	9.57895	31.4	26.3	0.2	31.6	26.5	60.0	50.0	28.4	23.5
5	9.77247	31.5	27.0	0.2	31.7	27.2	60.0	50.0	28.3	22.8
6	29.21223	30.4	28.6	0.0	30.4	28.6	60.0	50.0	29.6	21.4

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	8.08358	31.8	27.5	0.1	31.9	27.6	60.0	50.0	28.1	22.4
2	16.9982	30.1	29.9	1.2	31.3	31.1	60.0	50.0	28.7	18.9
3	26.99339	29.9	27.6	0.5	30.4	28.1	60.0	50.0	29.7	21.9
4	27.26874	29.9	28.4	0.5	30.4	28.9	60.0	50.0	29.6	21.1
5	28.1032	29.8	27.3	0.6	30.4	27.9	60.0	50.0	29.6	22.1
6	29.97615	29.9	27.9	0.8	30.7	28.7	60.0	50.0	29.3	21.3

■ Operating Mode : VCR REC(NTSC)_CH03

[Graph and Data]



Final Result

--- N Phase ---

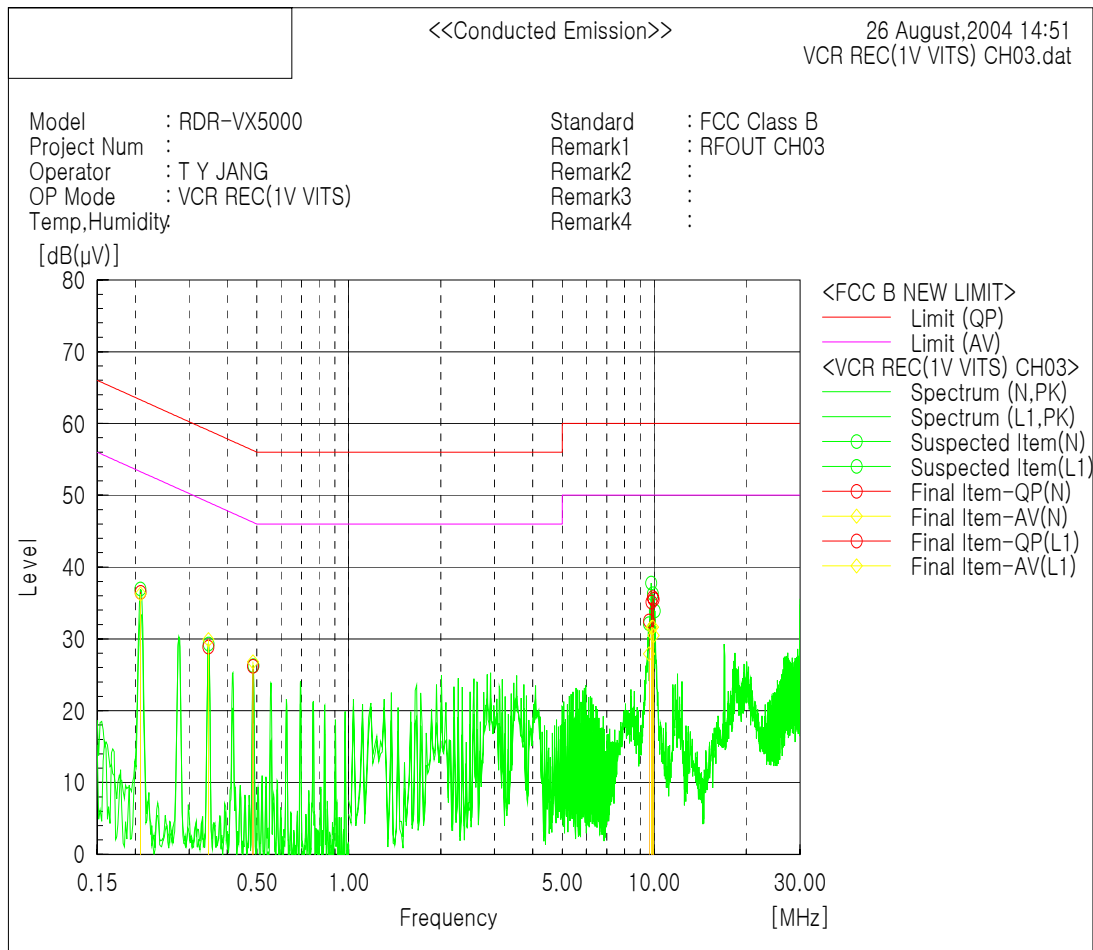
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.2082	36.3	36.0	0.1	36.4	36.1	63.3	53.3	26.9	17.2
2	3.54841	36.7	36.9	0.2	36.9	37.1	56.0	46.0	19.1	9.0
3	7.9245	30.8	26.8	0.1	30.9	26.9	60.0	50.0	29.1	23.1
4	8.12037	31.5	26.3	0.1	31.6	26.4	60.0	50.0	28.4	23.6

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	9.6951	31.3	25.5	0.2	31.5	25.7	60.0	50.0	28.5	24.4
2	9.75263	29.6	26.0	0.2	29.8	26.2	60.0	50.0	30.2	23.8

■ Operating Mode : VCR REC(1V VITS)_CH03

[Graph and Data]



Final Result

--- N Phase ---

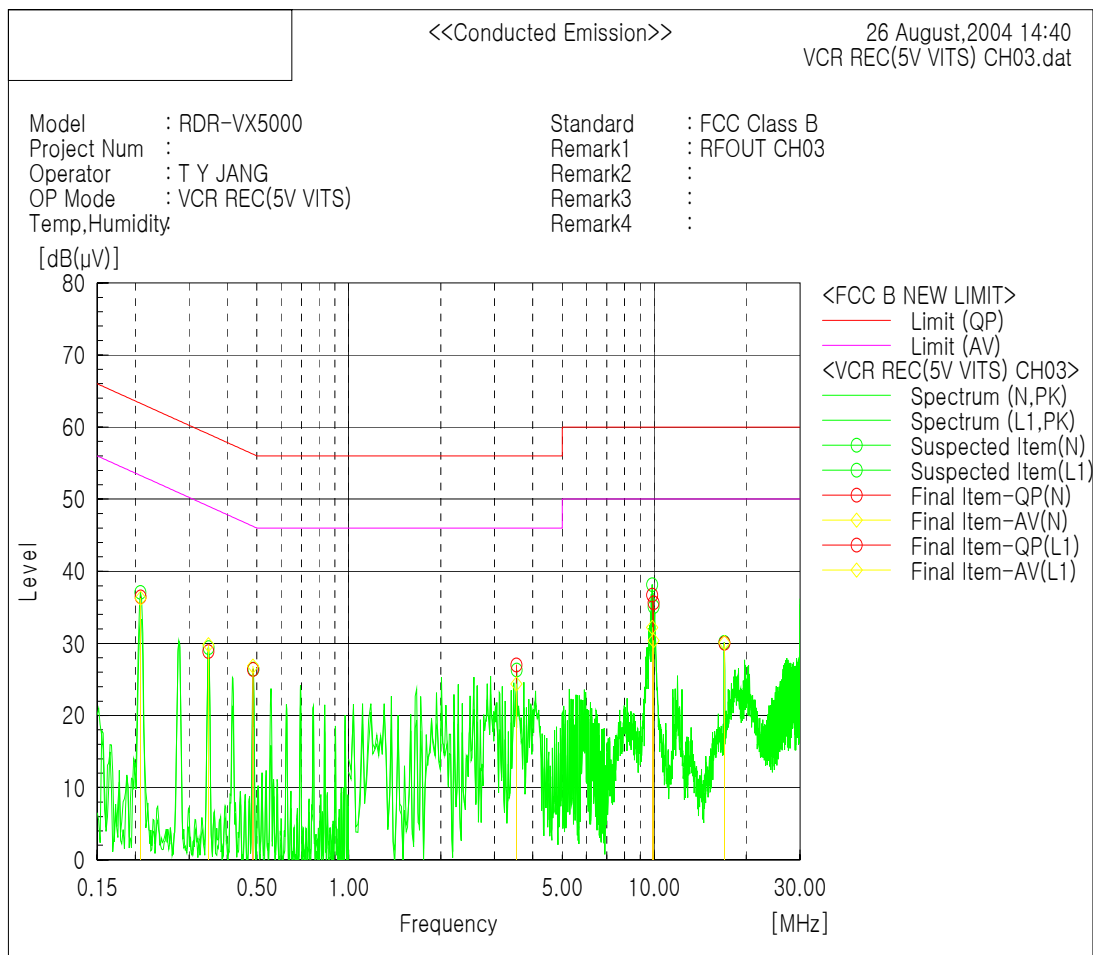
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.20816	36.4	36.2	0.1	36.5	36.3	63.3	53.3	26.8	17.0
2	9.61845	32.3	27.7	0.2	32.5	27.9	60.0	50.0	27.5	22.1
3	9.79195	34.9	31.4	0.2	35.1	31.6	60.0	50.0	24.9	18.4

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.34691	28.8	29.8	0.1	28.9	29.9	59.0	49.0	30.1	19.1
2	0.48561	26.1	26.7	0.1	26.2	26.8	56.2	46.2	30.0	19.4
3	9.90792	35.6	31.4	0.2	35.8	31.6	60.0	50.0	24.2	18.4
4	9.96613	35.3	30.3	0.2	35.5	30.5	60.0	50.0	24.5	19.5

■ Operating Mode : VCR REC(5V VITS)_CH03

[Graph and Data]



Final Result

--- N Phase ---

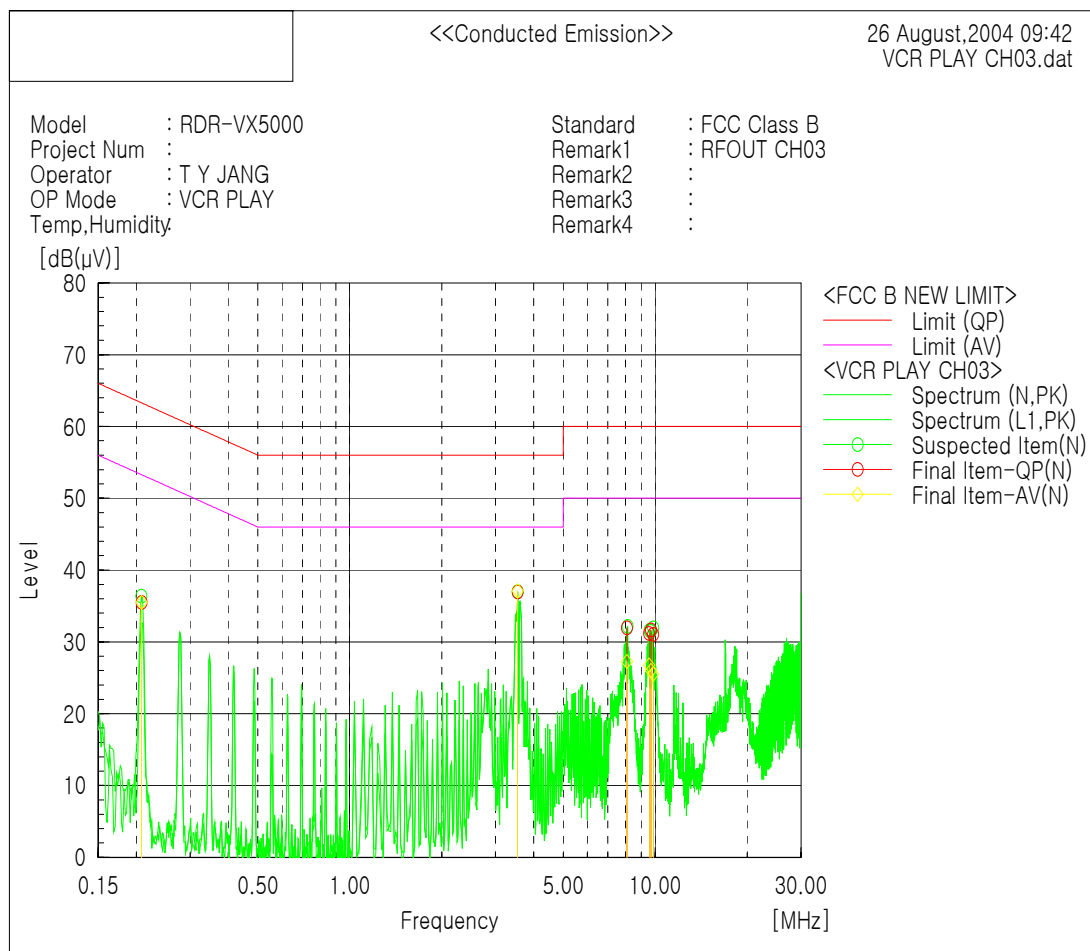
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.20813	36.4	36.1	0.1	36.5	36.2	63.3	53.3	26.8	17.1
2	16.9982	29.0	29.1	1.0	30.0	30.1	60.0	50.0	30.0	19.9

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.34692	28.8	29.7	0.1	28.9	29.8	59.0	49.0	30.2	19.2
2	0.48566	26.3	26.7	0.1	26.4	26.8	56.2	46.2	29.8	19.4
3	3.53849	26.8	24.2	0.2	27.0	24.4	56.0	46.0	29.0	21.6
4	9.85003	36.5	32.0	0.2	36.7	32.2	60.0	50.0	23.3	17.8
5	9.96528	35.4	30.2	0.2	35.6	30.4	60.0	50.0	24.4	19.6

■ Operating Mode : VCR PLAY_CH03

[Graph and Data]

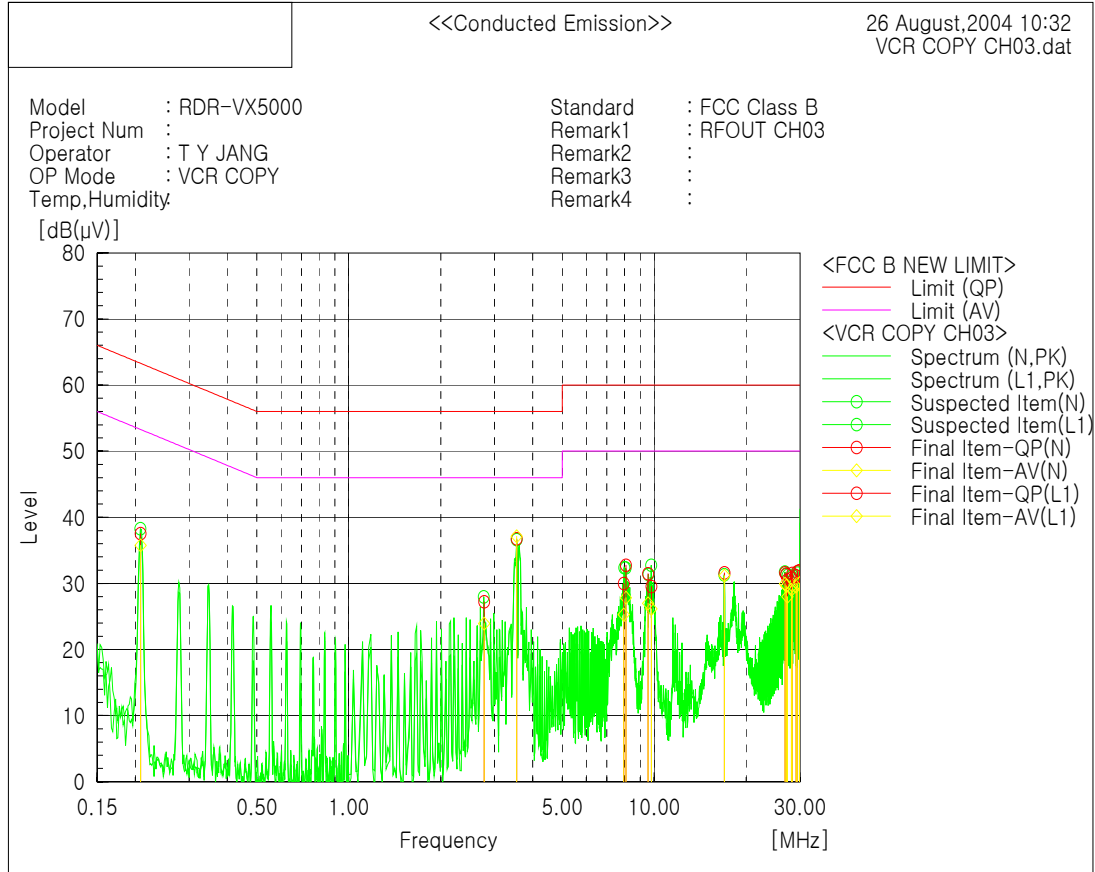


Final Result

--- N Phase ---										
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.2082	35.4	35.4	0.1	35.5	35.5	63.3	53.3	27.8	17.8
2	3.54841	36.8	36.9	0.2	37.0	37.1	56.0	46.0	19.0	8.9
3	8.08304	31.9	27.2	0.1	32.0	27.3	60.0	50.0	28.0	22.7
4	9.55875	31.0	26.6	0.2	31.2	26.8	60.0	50.0	28.8	23.2
5	9.69456	31.5	25.8	0.2	31.7	26.0	60.0	50.0	28.3	24.0
6	9.85003	30.9	25.3	0.2	31.1	25.5	60.0	50.0	28.9	24.5

■ Operating Mode : VCR COPY_CH03

[Graph and Data]



Final Result

--- N Phase ---

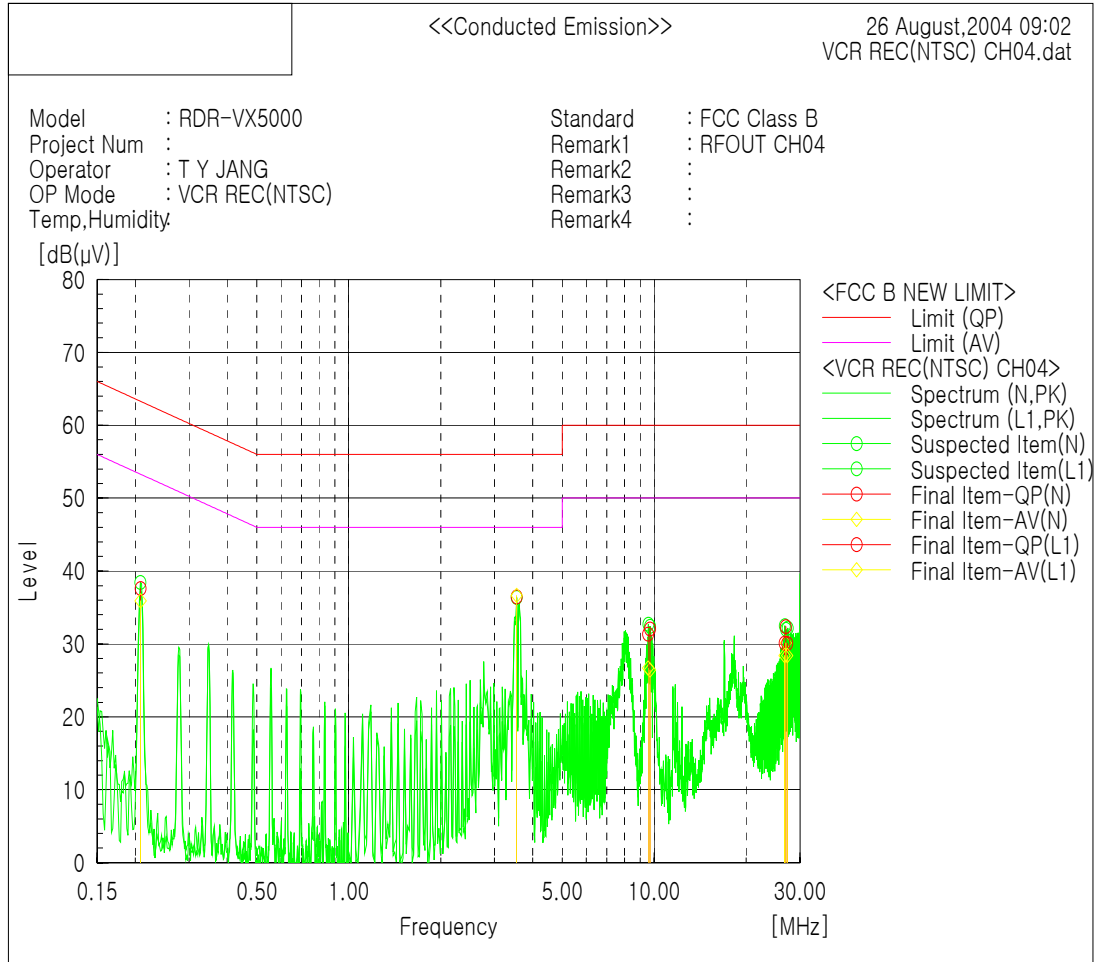
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.20815	37.4	35.7	0.1	37.5	35.8	63.3	53.3	25.8	17.5
2	3.54841	36.5	36.9	0.2	36.7	37.1	56.0	46.0	19.3	8.9
3	8.0834	32.6	27.8	0.1	32.7	27.9	60.0	50.0	27.3	22.2
4	9.79123	29.3	26.0	0.2	29.5	26.2	60.0	50.0	30.5	23.8
5	16.9978	30.6	30.2	1.0	31.6	31.2	60.0	50.0	28.4	18.8
6	28.30721	31.6	29.8	-0.1	31.5	29.7	60.0	50.0	28.5	20.4
7	29.14209	31.1	29.5	0.0	31.1	29.5	60.0	50.0	28.9	20.5
8	29.41904	31.7	30.0	0.0	31.7	30.0	60.0	50.0	28.3	20.0

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	2.77538	27.0	23.7	0.2	27.2	23.9	56.0	46.0	28.8	22.1
2	7.94921	29.9	25.2	0.1	30.0	25.3	60.0	50.0	30.0	24.7
3	9.55947	31.3	26.8	0.2	31.5	27.0	60.0	50.0	28.5	23.0
4	26.85311	31.1	29.4	0.5	31.6	29.9	60.0	50.0	28.4	20.1
5	27.06072	30.8	29.2	0.5	31.3	29.7	60.0	50.0	28.7	20.4
6	27.33968	30.0	27.5	0.5	30.5	28.0	60.0	50.0	29.5	22.0
7	28.17054	30.2	28.5	0.6	30.8	29.1	60.0	50.0	29.2	21.0
8	29.90521	31.1	29.2	0.8	31.9	30.0	60.0	50.0	28.1	20.0

■ Operating Mode : VCR REC(NTSC)_CH04

[Graph and Data]



Final Result

--- N Phase ---

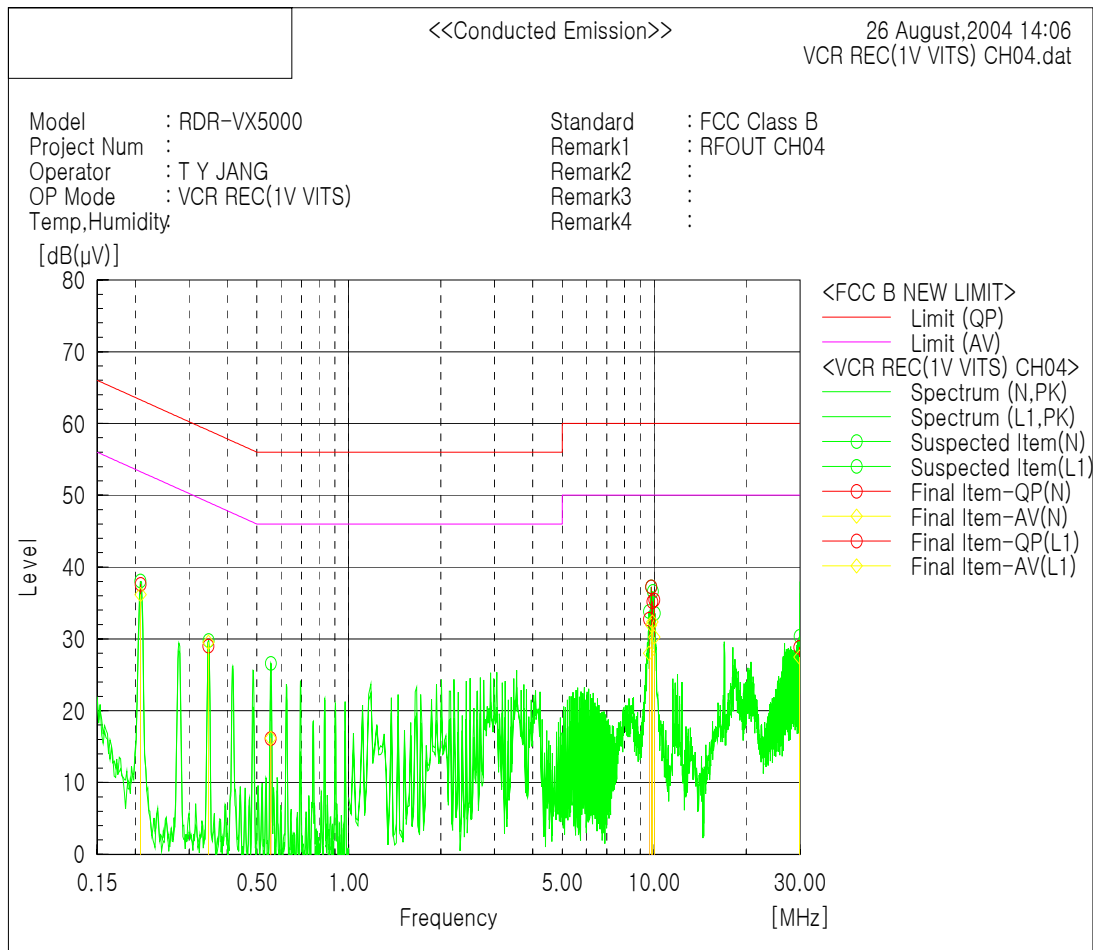
No.	Frequency	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin
	[MHz]	QP	AV		QP	AV	QP	AV	QP	AV
		[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20821	37.5	35.8	0.1	37.6	35.9	63.3	53.3	25.7	17.4
2	3.54841	36.3	36.5	0.2	36.5	36.7	56.0	46.0	19.5	9.4
3	9.69528	31.8	26.2	0.2	32.0	26.4	60.0	50.0	28.0	23.6
4	26.9982	32.4	30.1	0.0	32.4	30.1	60.0	50.0	27.6	19.9

--- L1 Phase ---

No.	Frequency	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin
	[MHz]	QP	AV		QP	AV	QP	AV	QP	AV
		[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	9.55947	31.2	26.5	0.2	31.4	26.7	60.0	50.0	28.6	23.3
2	26.72125	29.6	27.9	0.5	30.1	28.4	60.0	50.0	29.9	21.6
3	27.27435	29.6	27.9	0.5	30.1	28.4	60.0	50.0	29.9	21.6

■ Operating Mode : VCR REC(1V VITS)_CH04

[Graph and Data]



Final Result

--- N Phase ---

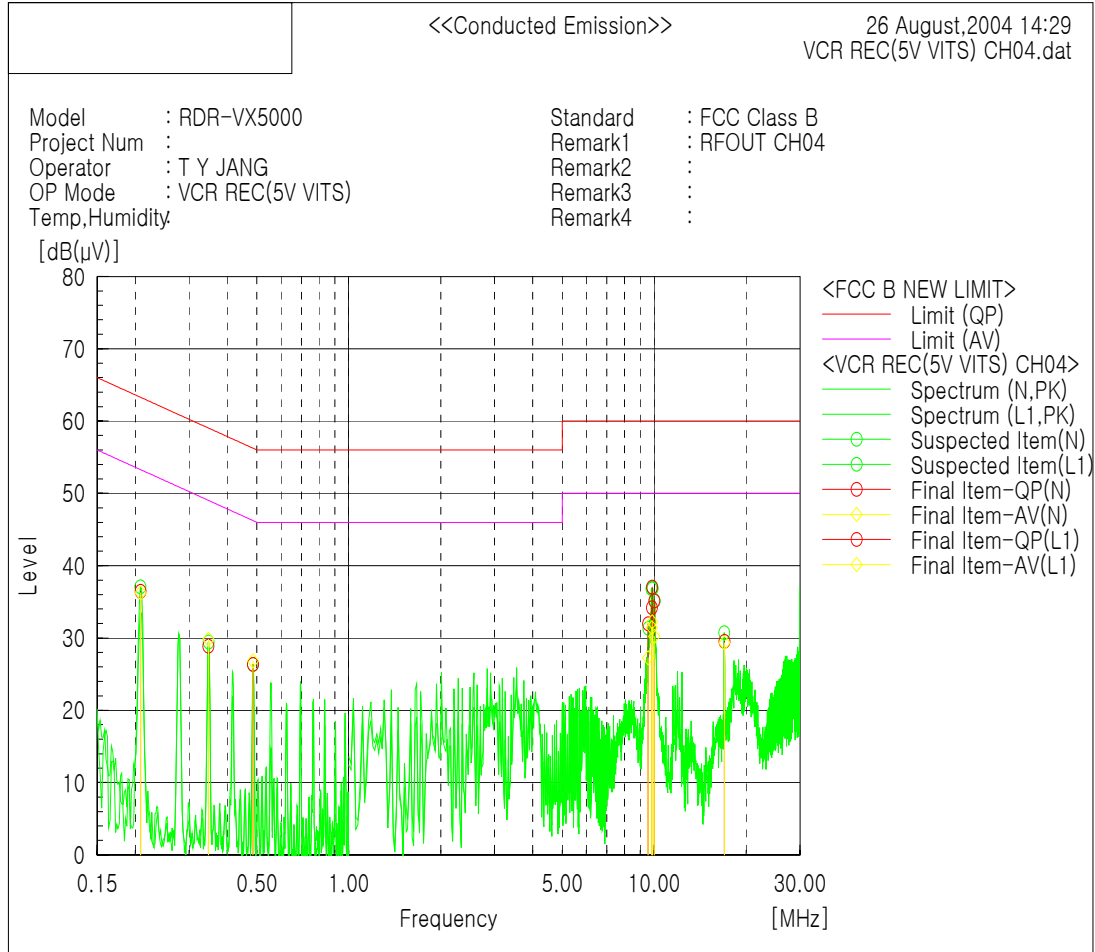
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.2082	37.5	36.1	0.1	37.6	36.2	63.3	53.3	25.7	17.2
2	0.34691	28.9	29.4	0.1	29.0	29.5	59.0	49.0	30.0	19.5
3	9.61736	32.6	27.8	0.2	32.8	28.0	60.0	50.0	27.3	22.0
4	9.77157	37.0	31.7	0.2	37.2	31.9	60.0	50.0	22.8	18.1
5	29.8992	28.8	27.5	0.0	28.8	27.5	60.0	50.0	31.2	22.5

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.55504	16.0	16.1	0.1	16.1	16.2	56.0	46.0	39.9	29.9
2	9.86915	35.0	32.2	0.2	35.2	32.4	60.0	50.0	24.8	17.6
3	10.00501	35.2	30.1	0.2	35.4	30.3	60.0	50.0	24.6	19.8

■ Operating Mode : VCR REC(5V VITS)_CH04

[Graph and Data]



Final Result

--- N Phase ---

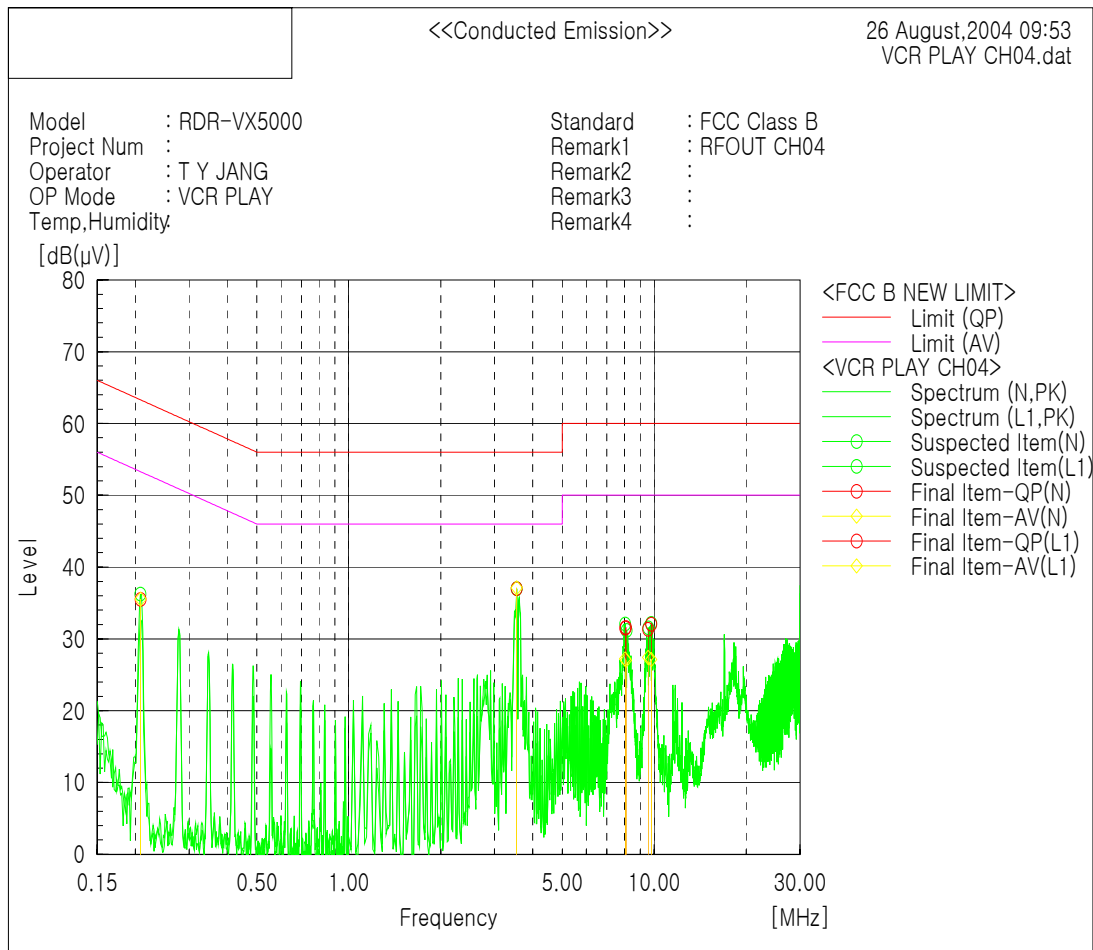
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20816	36.4	36.1	0.1	36.5	36.2	63.3	53.3	26.8	17.1
2	9.55947	31.8	27.0	0.2	32.0	27.2	60.0	50.0	28.0	22.8
3	10.00621	34.9	30.0	0.2	35.1	30.2	60.0	50.0	24.9	19.8

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.34694	28.8	29.7	0.1	28.9	29.8	59.0	49.0	30.2	19.2
2	0.48568	26.3	26.7	0.1	26.4	26.8	56.2	46.2	29.8	19.4
3	9.83091	34.0	31.2	0.2	34.2	31.4	60.0	50.0	25.8	18.6
4	9.85039	36.9	32.1	0.2	37.1	32.3	60.0	50.0	23.0	17.7
5	16.9986	28.3	28.1	1.2	29.5	29.3	60.0	50.0	30.5	20.7

■ Operating Mode : VCR PLAY_CH04

[Graph and Data]



Final Result

--- N Phase ---

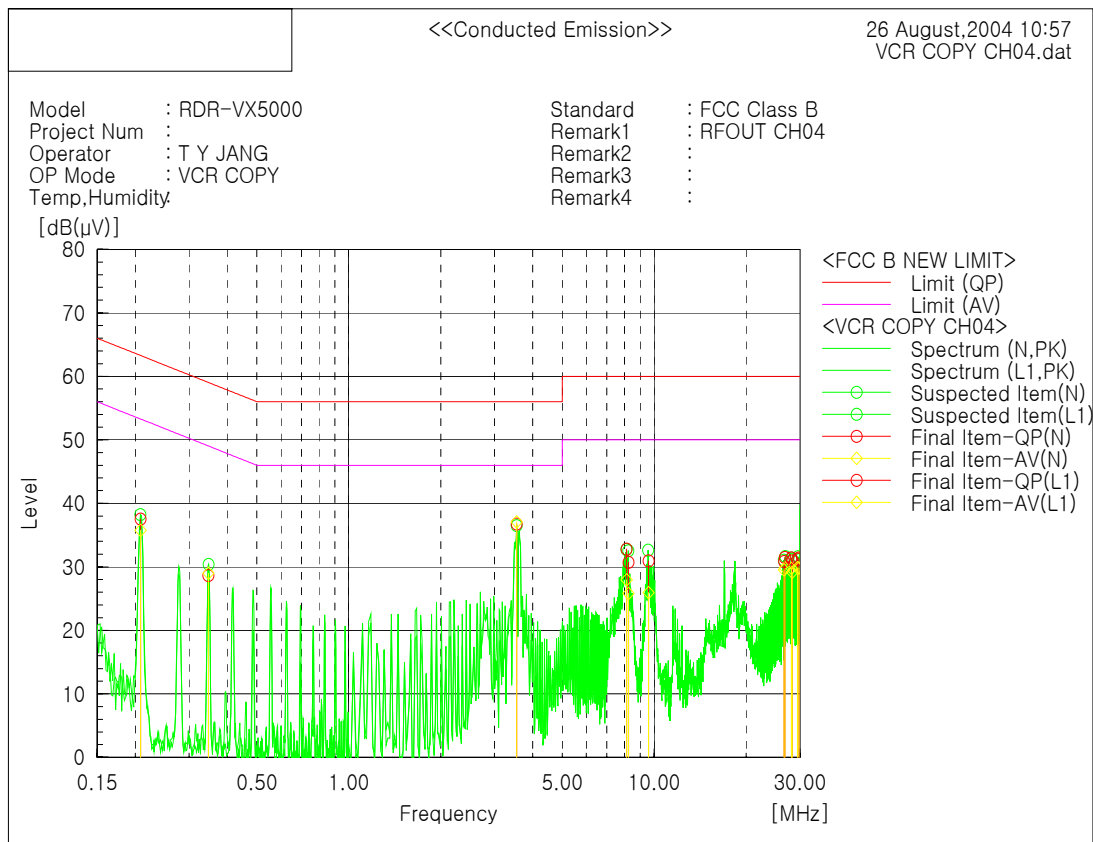
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.20818	35.4	35.4	0.1	35.5	35.5	63.3	53.3	27.8	17.8
2	3.54841	36.8	36.9	0.2	37.0	37.1	56.0	46.0	19.0	8.9
3	8.08358	31.5	26.9	0.1	31.6	27.0	60.0	50.0	28.4	23.0

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	8.04534	31.4	27.1	0.1	31.5	27.2	60.0	50.0	28.5	22.8
2	9.55947	31.1	27.2	0.2	31.3	27.4	60.0	50.0	28.7	22.6
3	9.77211	31.9	26.9	0.2	32.1	27.1	60.0	50.0	28.0	22.9

■ Operating Mode : VCR COPY_CH04

[Graph and Data]



Final Result

--- N Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20821	37.4	35.7	0.1	37.5	35.8	63.3	53.3	25.8	17.6
2	0.34689	28.5	28.9	0.1	28.6	29.0	59.0	49.0	30.4	20.0
3	3.54841	36.5	36.9	0.2	36.7	37.1	56.0	46.0	19.3	8.9
4	8.12109	32.7	27.9	0.1	32.8	28.0	60.0	50.0	27.2	22.0
5	8.23724	30.6	25.7	0.1	30.7	25.8	60.0	50.0	29.3	24.2
6	26.78056	31.5	29.9	0.0	31.5	29.9	60.0	50.0	28.5	20.1
7	28.17014	31.5	29.9	-0.1	31.4	29.8	60.0	50.0	28.6	20.2
8	28.30962	31.0	29.2	-0.1	30.9	29.1	60.0	50.0	29.1	20.9

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	9.58003	30.7	25.7	0.2	30.9	25.9	60.0	50.0	29.1	24.1
2	26.64509	30.3	29.0	0.5	30.8	29.5	60.0	50.0	29.2	20.5
3	29.48918	30.5	29.2	0.7	31.2	29.9	60.0	50.0	28.8	20.1
4	29.76693	30.7	29.1	0.7	31.4	29.8	60.0	50.0	28.6	20.2

3.2 Radiated Emission

Test Information		
	Test Engineer	Tae Young JANG
	Test Date	August 23 ~ 24, 2004
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 37%
	Test Place	10m Semi-anechoic Chamber

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
Field strength meter	ESCS	R&S	100104	2004-10-17	12
RF Selector	NS4900	TOYO	0303-015	N/A	N/A
Biconilog Antenna	6112B	SCHAFFNER	2767	2006-05-22	12
Mast Controller	HD2000	HD	HD20000902027	N/A	N/A
Test Software	EP5RE	TOYO	None	N/A	12
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2004-09-20	12
Spectrum Analyzer	E7405A	Agilent	MY42000109	2004-11-27	12

EUT Test Setup

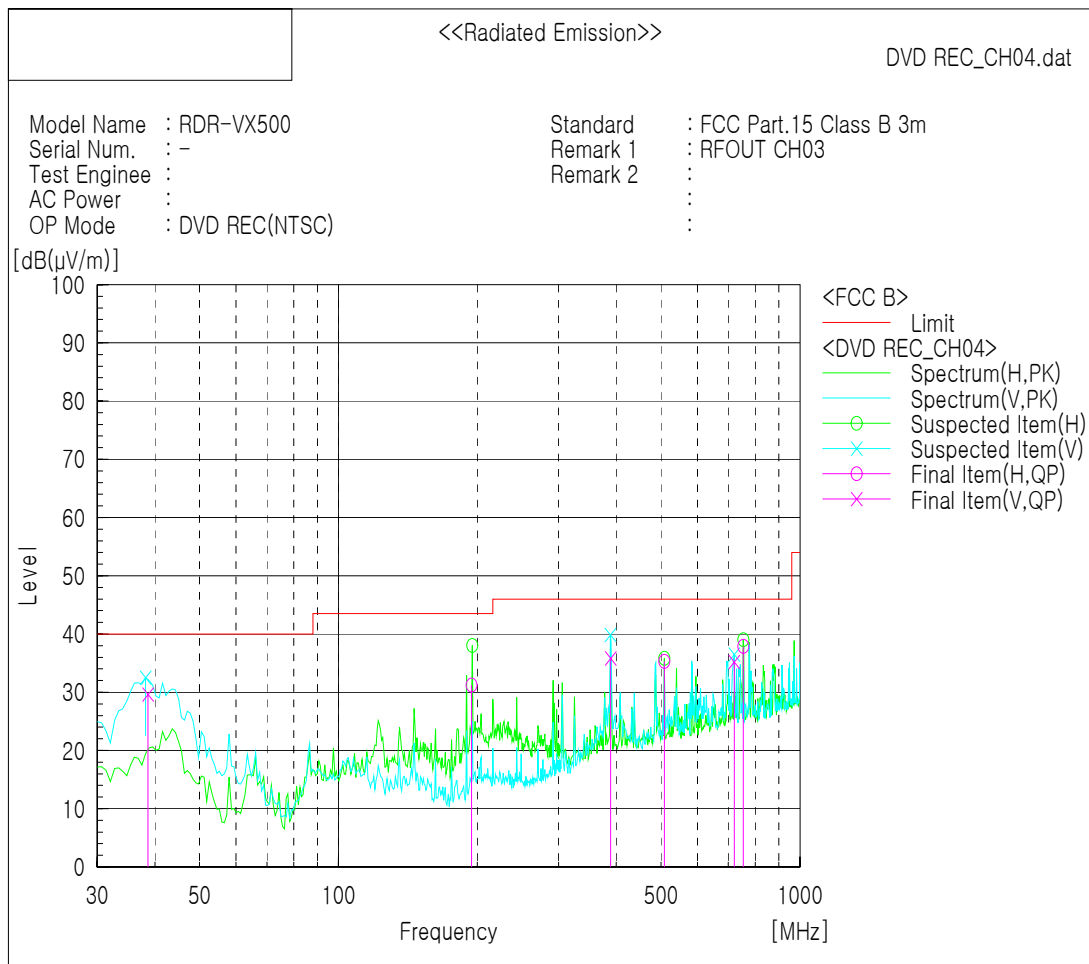
EUT set up in semi-anechoic chamber. EUT positioned at 3m from antenna in center of table.
All ports terminated into characteristic loads.

Test Result

Measurement Results	Pass
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Test Data (Other Frequency)

■ Operating Mode : DVD REC(NTSC)_CH03



Final Result

--- Horizontal Polarization (QP)---

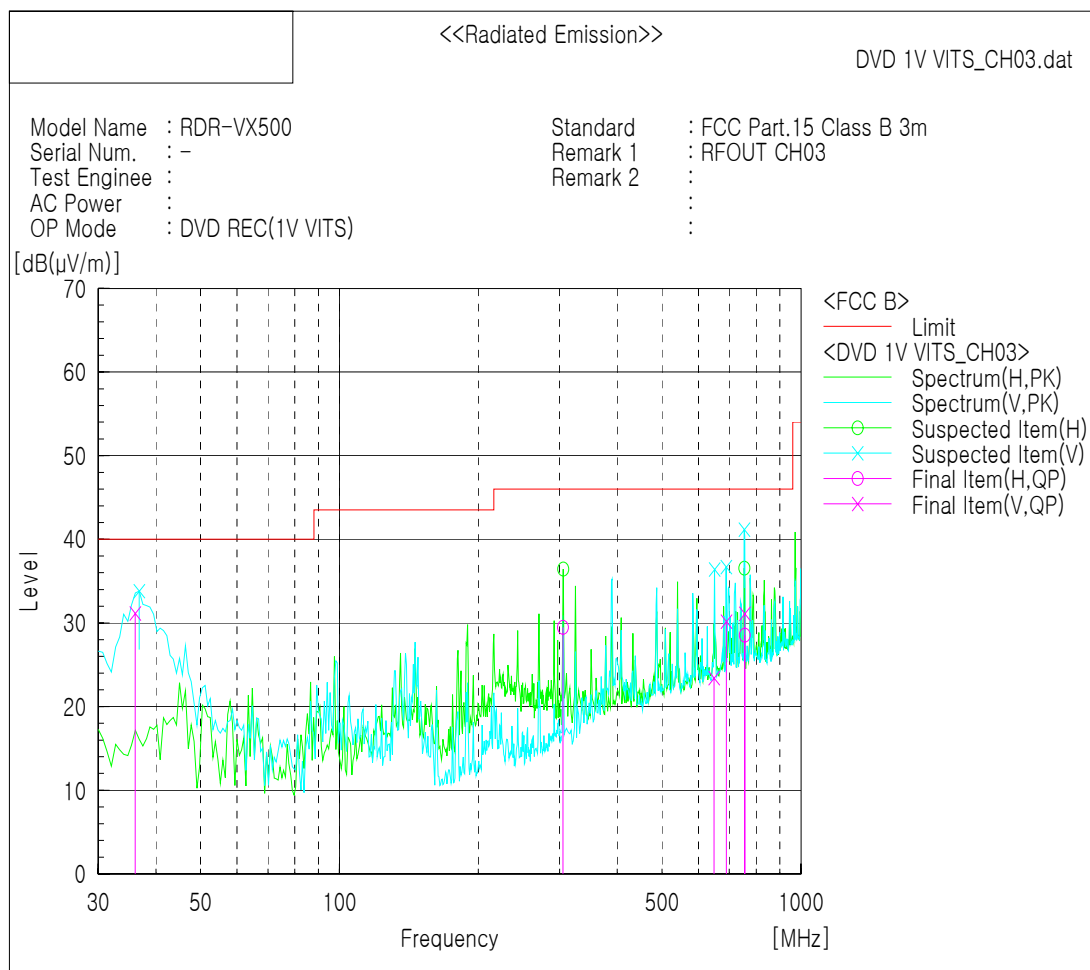
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	194.396	50.9	-19.7	31.2	43.5	12.3	
2	508.430	42.6	-7.3	35.3	46.0	10.7	
3	754.248	41.2	-3.3	37.9	46.0	8.1	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	38.647	47.1	-17.5	29.6	40.0	10.4	
2	388.800	46.9	-11.1	35.8	46.0	10.2	
3	720.665	39.0	-3.8	35.2	46.0	10.8	

■ Operating Mode : DVD REC(1V VITS)_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

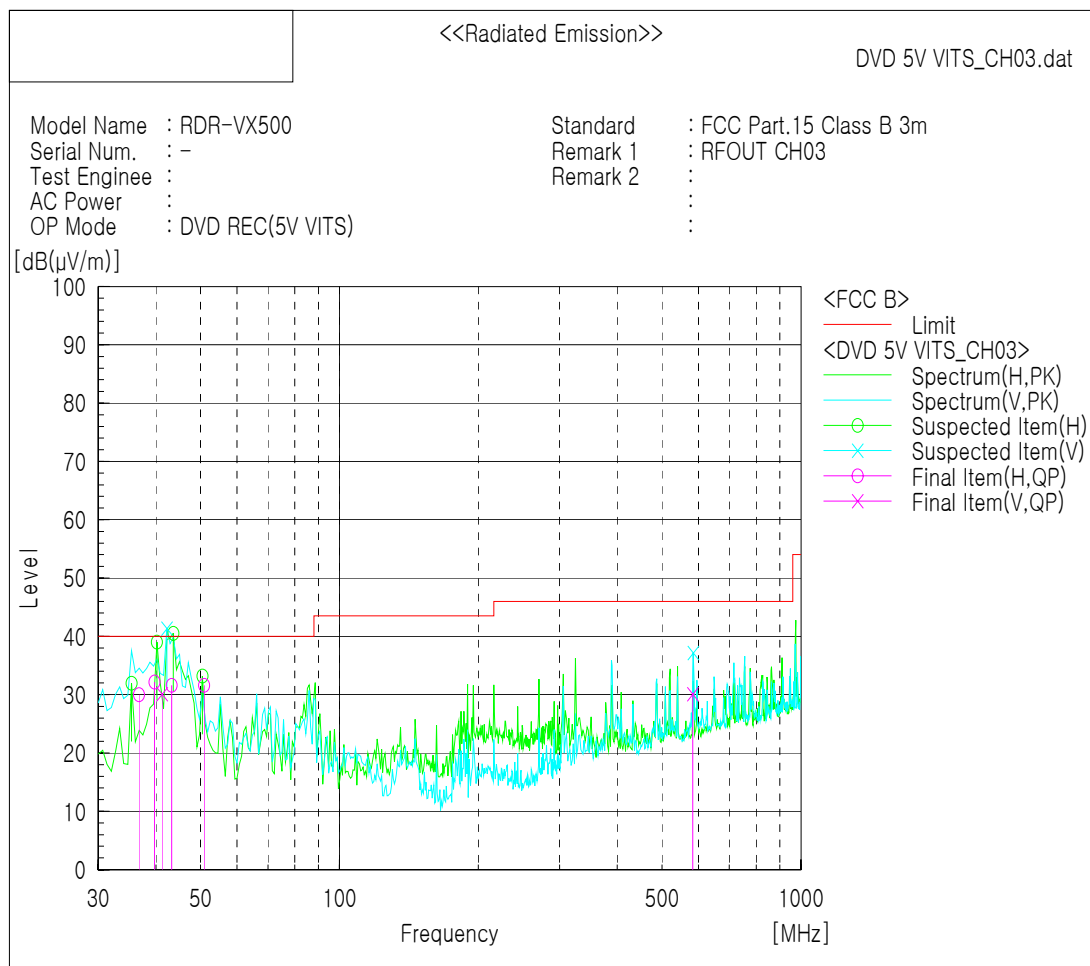
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	305.060	43.2	-13.7	29.5	46.0	16.5	
2	756.050	31.8	-3.3	28.5	46.0	17.5	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.075	47.4	-16.2	31.2	40.0	8.9	
2	647.990	28.6	-5.2	23.4	46.0	22.6	
3	689.660	34.7	-4.5	30.2	46.0	15.8	
4	755.980	34.4	-3.3	31.1	46.0	14.9	

■ Operating Mode : DVD REC(5V VITS)_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

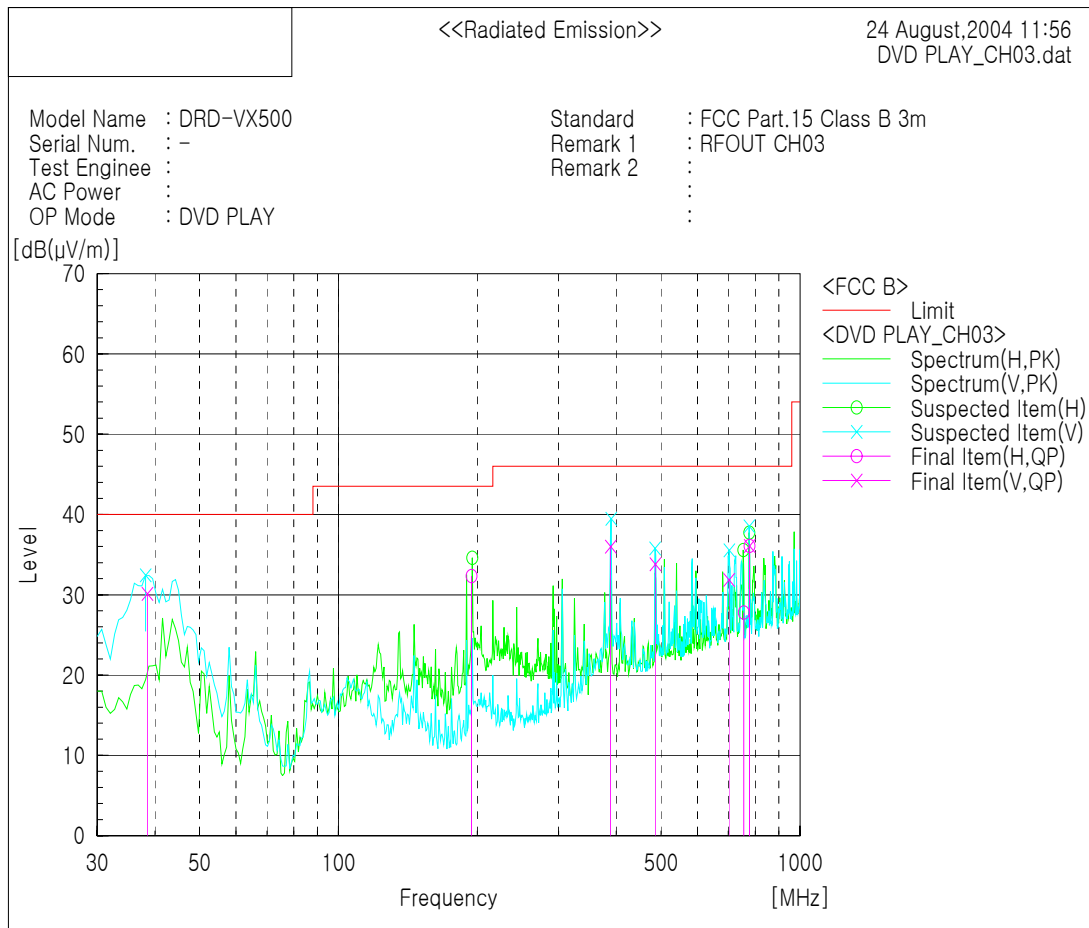
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.770	46.5	-16.5	30.0	40.0	10.0	
2	39.747	50.1	-18.0	32.1	40.0	7.9	
3	43.284	51.4	-19.8	31.6	40.0	8.4	
4	50.878	54.6	-23.0	31.6	40.0	8.4	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	41.279	48.9	-18.8	30.1	40.0	9.9	
2	583.190	36.2	-6.1	30.1	46.0	15.9	

■ Operating Mode : DVD PLAY_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

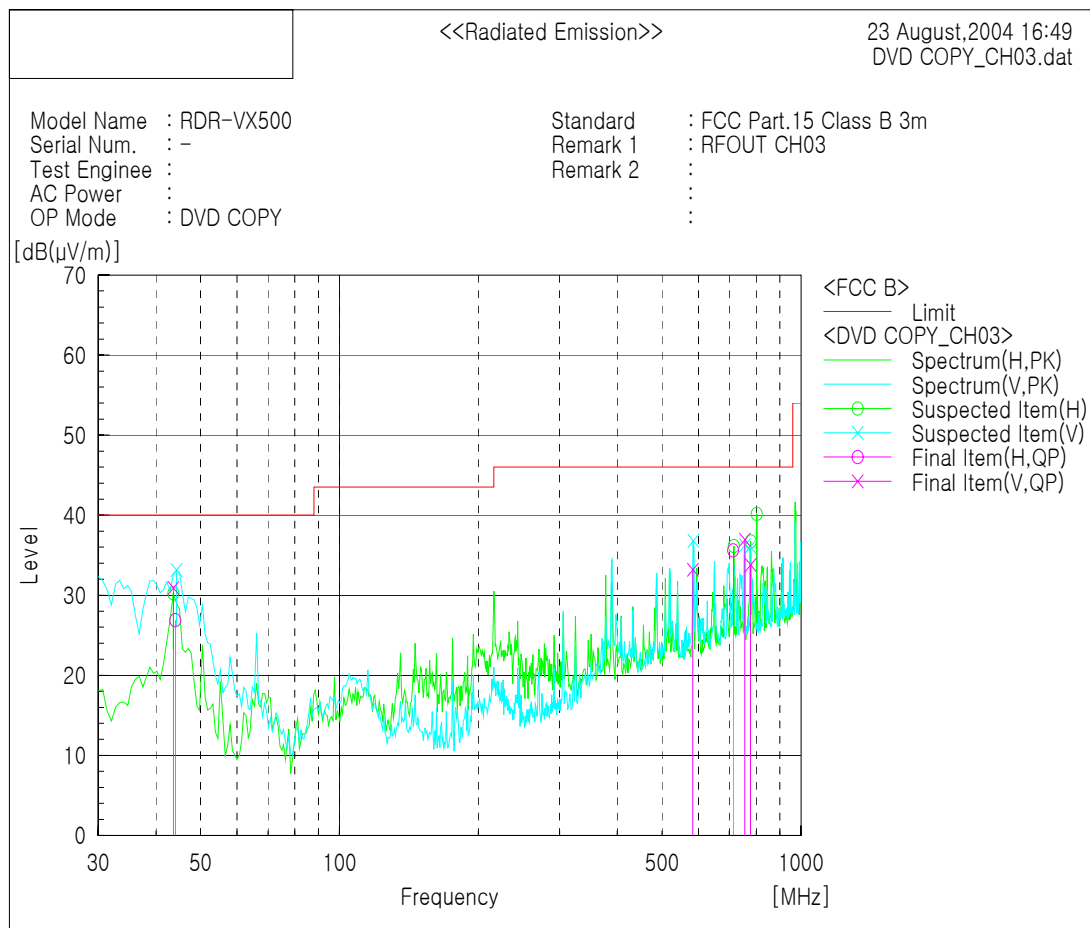
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	194.396	52.0	-19.7	32.3	43.5	11.2	
2	755.980	31.1	-3.3	27.8	46.0	18.2	
3	777.580	39.6	-3.5	36.1	46.0	9.9	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	38.512	47.5	-17.4	30.1	40.0	9.9	
2	388.800	47.1	-11.1	36.0	46.0	10.0	
3	485.990	41.7	-7.9	33.8	46.0	12.2	
4	701.890	36.2	-4.3	31.9	46.0	14.1	
5	777.580	39.6	-3.5	36.1	46.0	9.9	

■ Operating Mode : DVD COPY_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

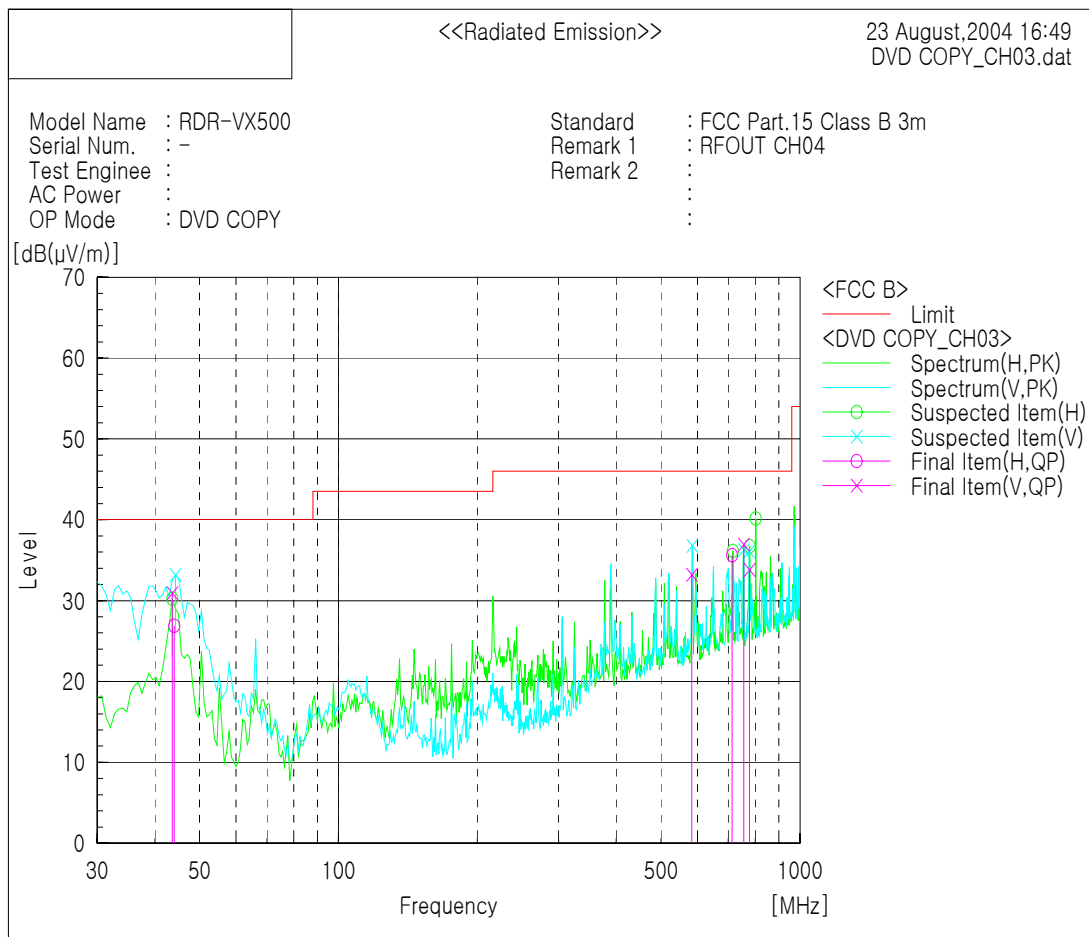
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	44.054	47.1	-20.2	26.9	40.0	13.1	
2	712.690	39.6	-4.0	35.6	46.0	10.4	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	43.642	50.9	-20.0	30.9	40.0	9.1	
2	583.190	39.3	-6.1	33.2	46.0	12.8	
3	755.980	40.3	-3.3	37.0	46.0	9.1	
4	777.580	37.3	-3.5	33.8	46.0	12.2	

■ Operating Mode : DVD REC(NTSC)_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP) ---

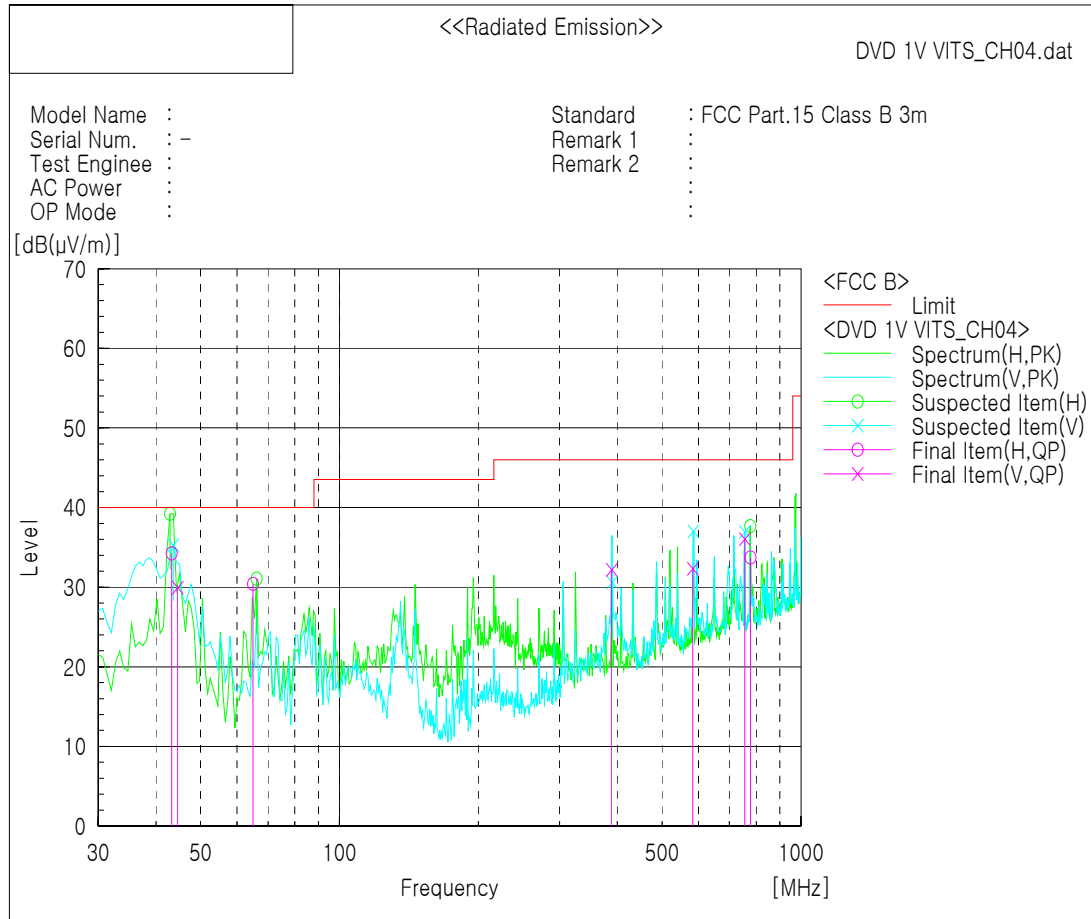
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	44.054	47.1	-20.2	26.9	40.0	13.1	
2	712.690	39.6	-4.0	35.6	46.0	10.4	

--- Vertical Polarization (QP) ---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	43.642	50.9	-20.0	30.9	40.0	9.1	
2	583.190	39.3	-6.1	33.2	46.0	12.8	
3	755.980	40.3	-3.3	37.0	46.0	9.1	
4	777.580	37.3	-3.5	33.8	46.0	12.2	

■ Operating Mode : DVD REC(1V VITS)_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

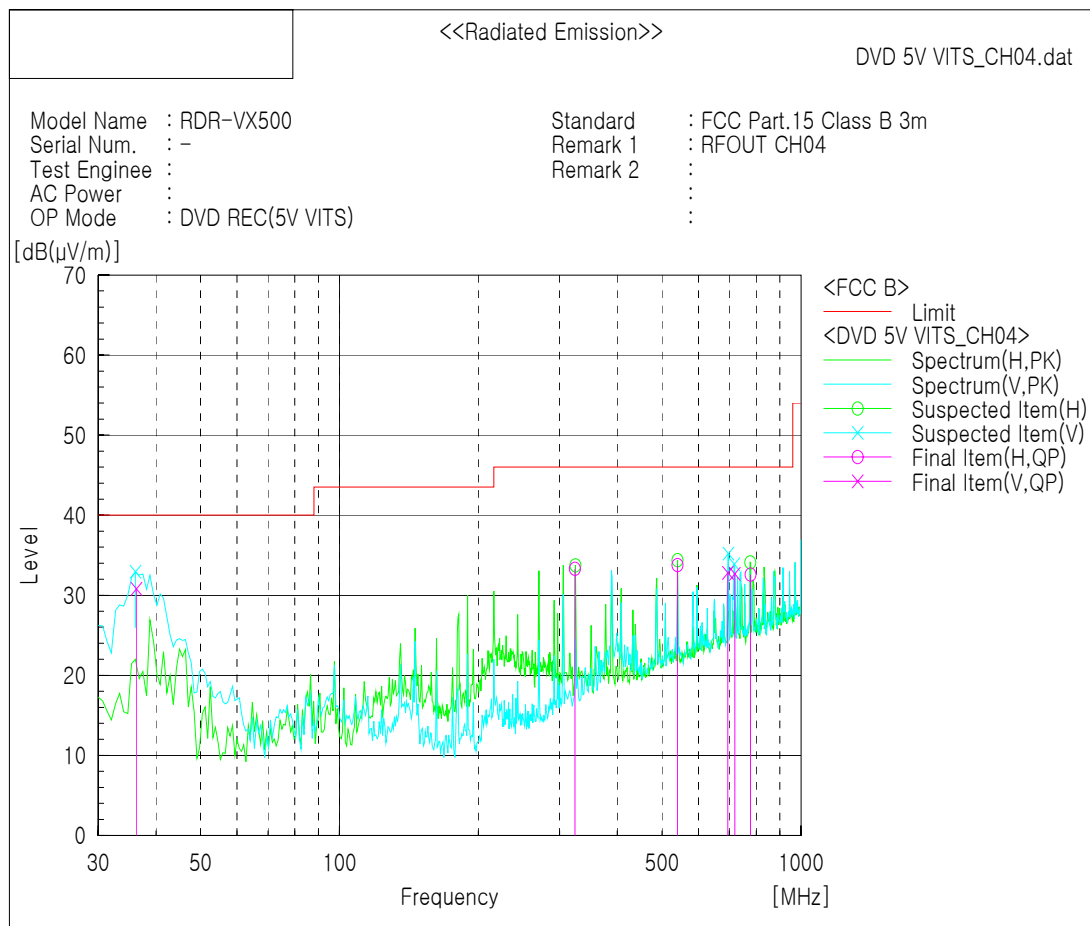
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	43.291	54.1	-19.8	34.3	40.0	5.7	
2	64.952	55.8	-25.4	30.4	40.0	9.6	
3	777.580	37.2	-3.5	33.7	46.0	12.3	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	44.607	50.3	-20.4	29.9	40.0	10.1	
2	583.190	38.4	-6.1	32.3	46.0	13.7	
3	755.980	39.4	-3.3	36.1	46.0	9.9	
4	388.800	43.3	-11.1	32.2	46.0	13.8	

■ Operating Mode : DVD REC(5V VITS)_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

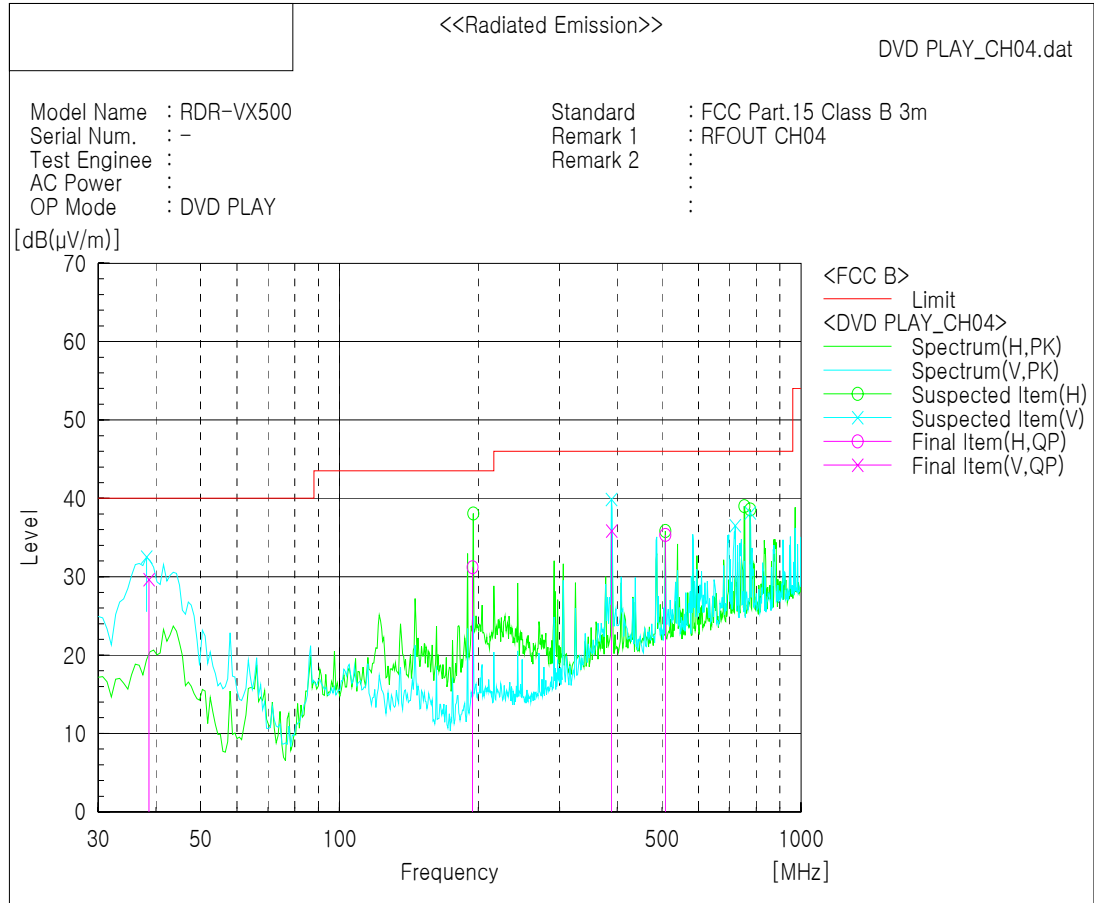
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	324.010	46.6	-13.3	33.3	46.0	12.7	
2	540.030	40.5	-6.7	33.8	46.0	12.2	
3	777.580	36.1	-3.5	32.6	46.0	13.4	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.284	47.1	-16.3	30.8	40.0	9.2	
2	694.850	37.2	-4.4	32.8	46.0	13.2	
3	718.830	36.5	-3.8	32.7	46.0	13.3	

■ Operating Mode : DVD PLAY_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

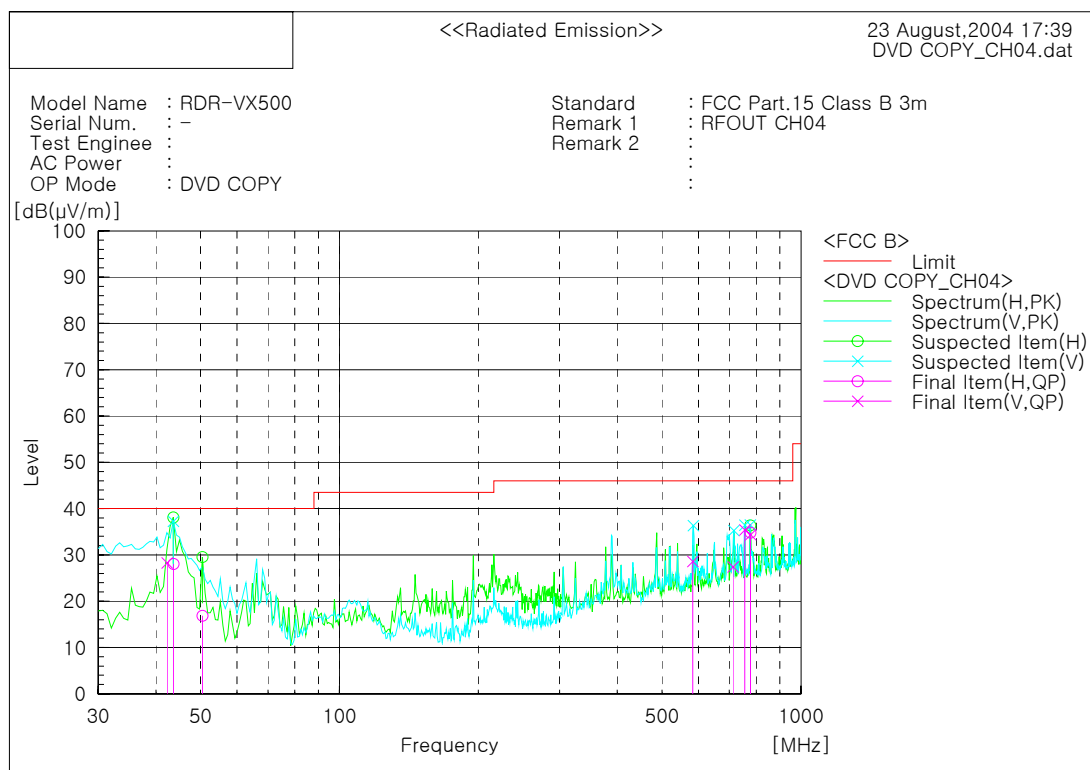
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	194.396	50.9	-19.7	31.2	43.5	12.3	
2	508.430	42.6	-7.3	35.3	46.0	10.7	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	38.647	47.1	-17.5	29.6	40.0	10.4	
2	388.800	46.9	-11.1	35.8	46.0	10.2	

■ Operating Mode : DVD COPY_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

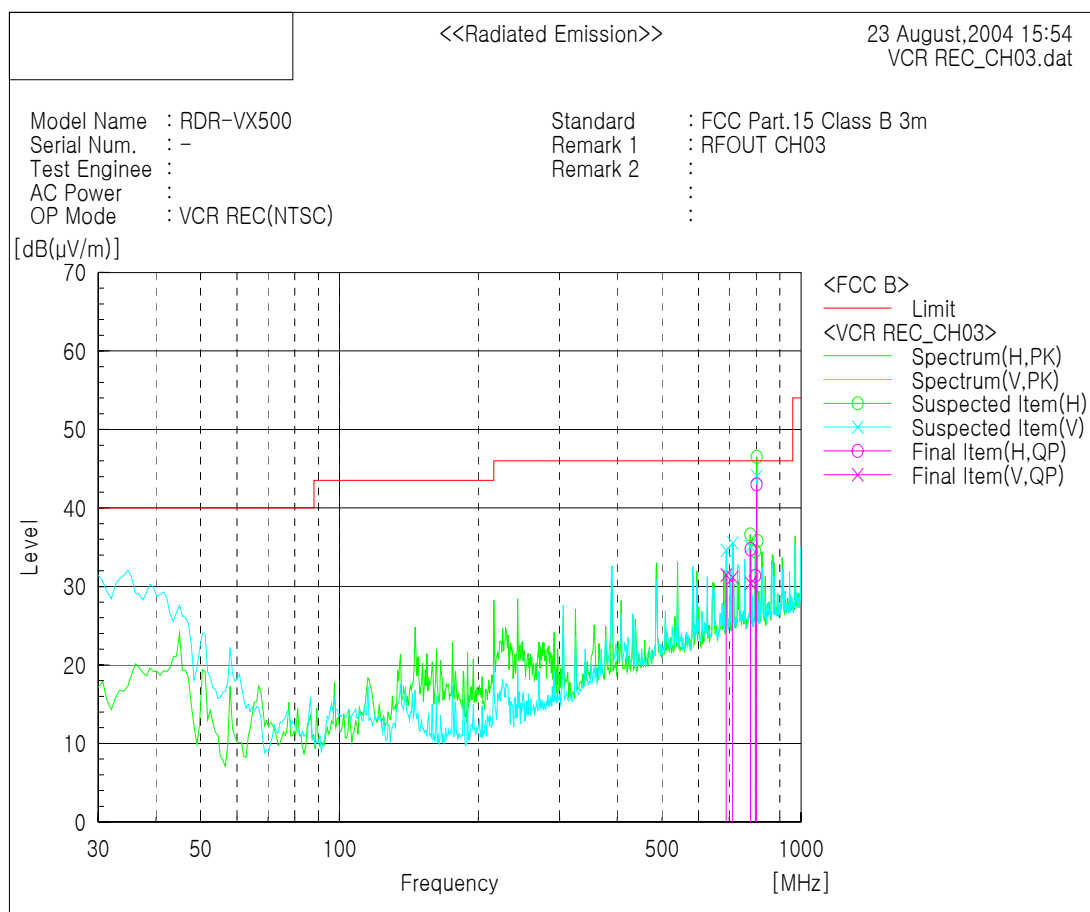
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	43.709	48.0	-20.0	28.0	40.0	12.0	
2	50.453	39.6	-22.8	16.8	40.0	23.2	
3	777.580	38.3	-3.5	34.8	46.0	11.2	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	42.319	47.7	-19.4	28.3	40.0	11.7	
2	583.190	34.7	-6.1	28.6	46.0	17.4	
3	712.690	31.4	-4.0	27.4	46.0	18.6	
4	755.980	38.7	-3.3	35.4	46.0	10.6	
5	777.580	37.9	-3.5	34.4	46.0	11.6	

■ Operating Mode : VCR REC(NTSC)_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

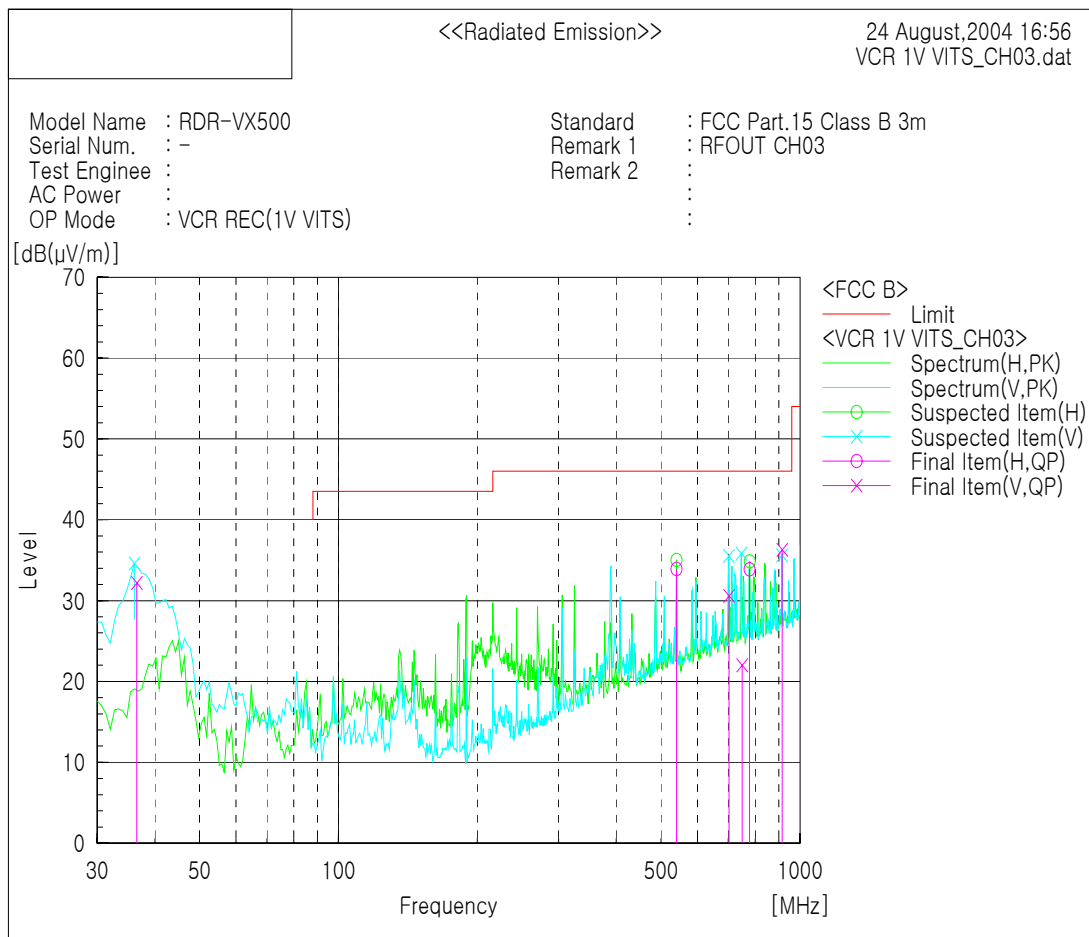
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	777.580	38.3	-3.5	34.8	46.0	11.3	
2	796.770	34.8	-3.5	31.3	46.0	14.7	
3	801.250	46.5	-3.5	43.0	46.0	3.0	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	688.730	36.0	-4.5	31.5	46.0	14.5	
2	711.810	35.2	-4.0	31.2	46.0	14.9	
3	777.580	33.9	-3.5	30.4	46.0	15.6	

■ Operating Mode : VCR REC(1V VITS)_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

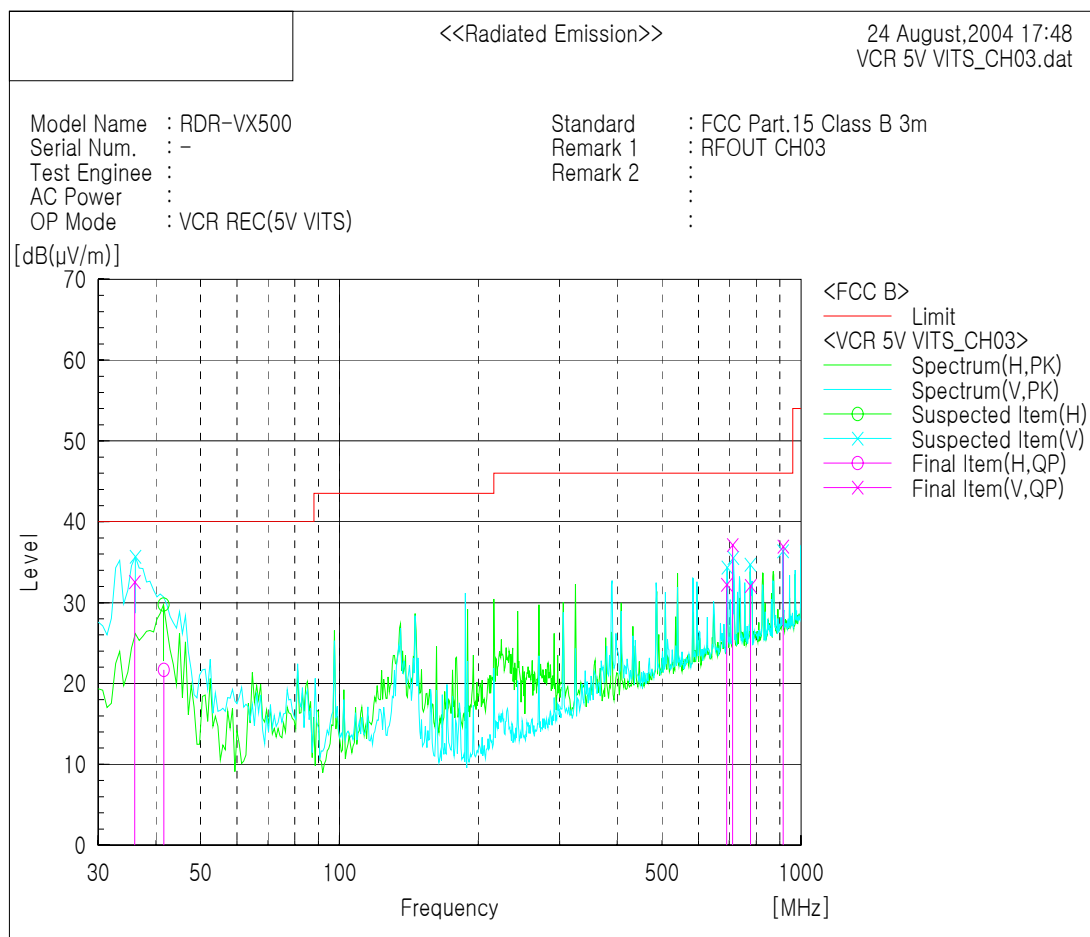
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	540.030	40.6	-6.7	33.9	46.0	12.1	
2	777.580	37.4	-3.5	33.9	46.0	12.1	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.561	48.6	-16.4	32.2	40.0	7.8	
2	702.050	34.8	-4.2	30.6	46.0	15.4	
3	749.540	25.3	-3.3	22.0	46.0	24.0	
4	915.180	37.6	-1.3	36.3	46.0	9.7	

■ Operating Mode : VCR REC(5V VITS)_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

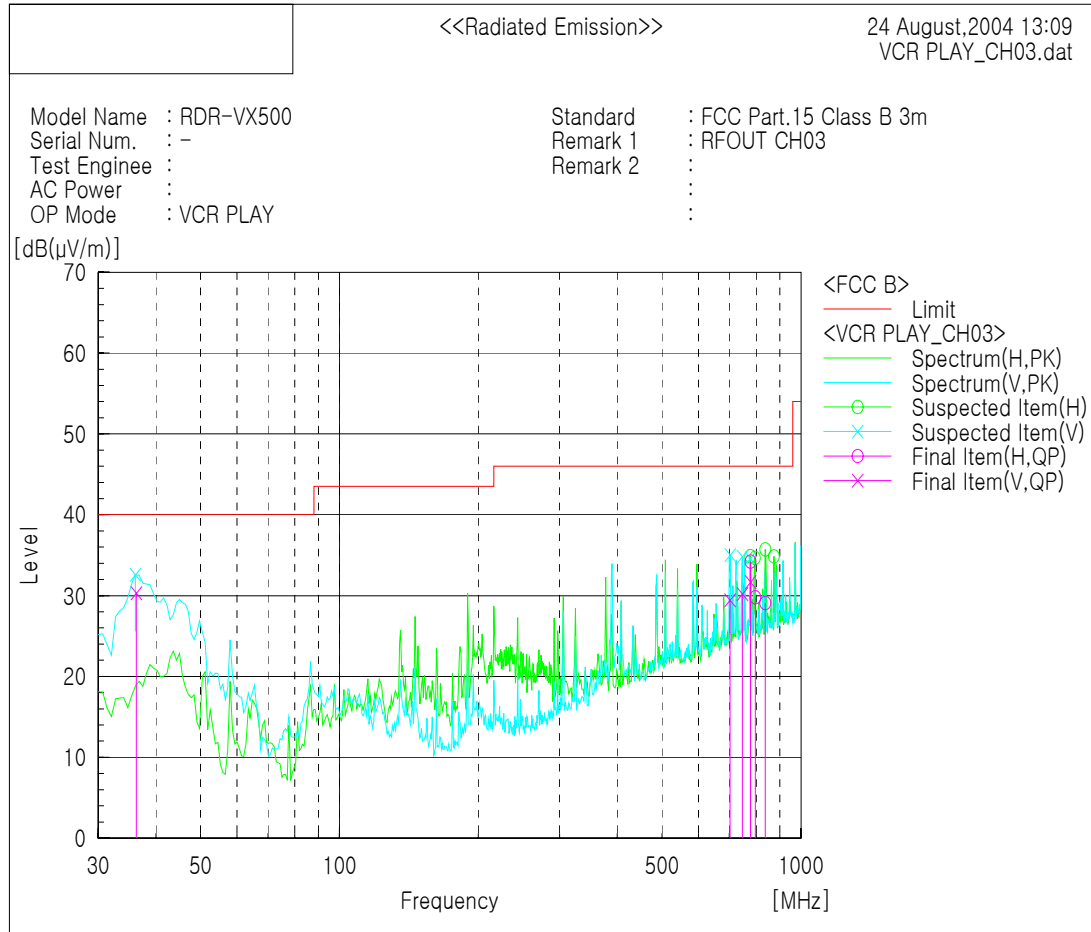
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	41.617	40.7	-19.0	21.7	40.0	18.3	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.001	48.6	-16.1	32.5	40.0	7.5	
2	690.650	36.7	-4.5	32.2	46.0	13.8	
3	711.810	41.1	-4.0	37.1	46.0	8.9	
4	777.580	35.6	-3.5	32.1	46.0	13.9	
5	915.180	38.3	-1.3	37.0	46.0	9.1	

■ Operating Mode : VCR PLAY_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

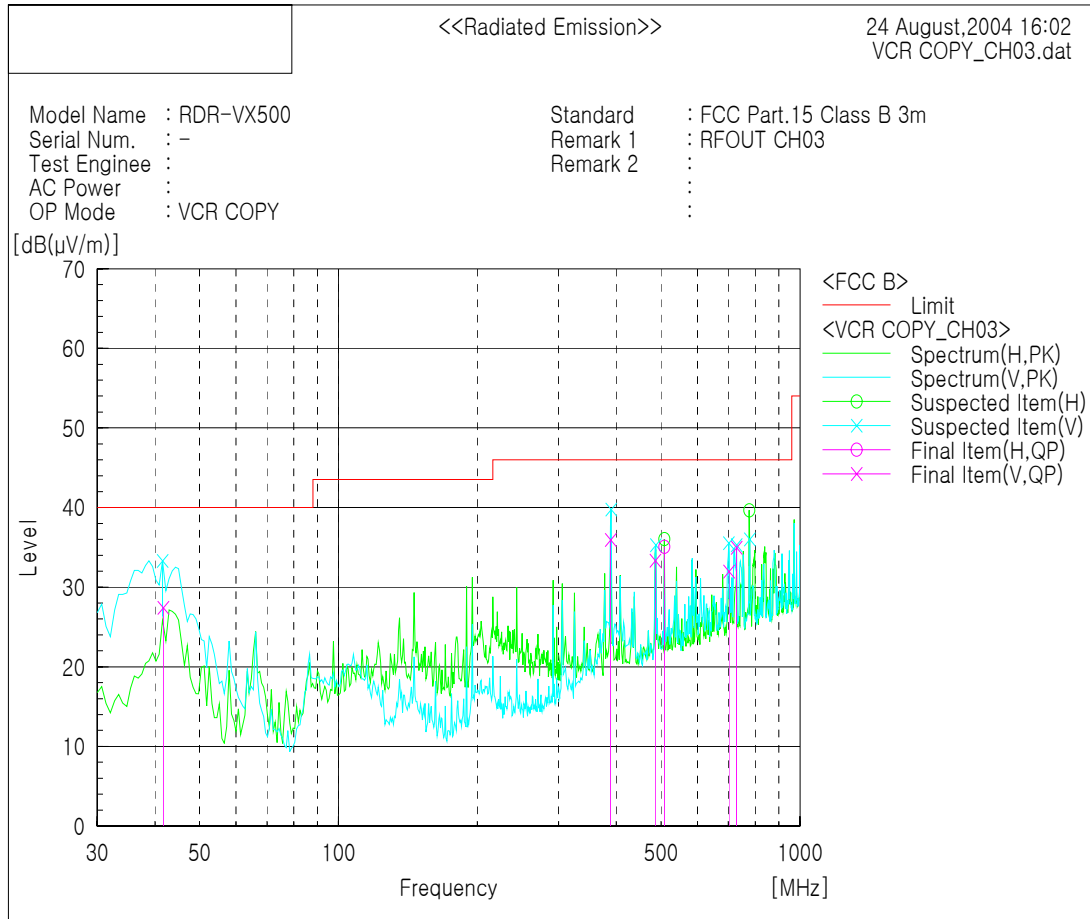
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	777.580	37.7	-3.5	34.2	46.0	11.8	
2	796.970	33.3	-3.5	29.8	46.0	16.2	
3	837.060	32.1	-3.0	29.1	46.0	16.9	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.291	46.6	-16.3	30.3	40.0	9.7	
2	702.050	33.7	-4.2	29.5	46.0	16.6	
3	747.140	33.5	-3.3	30.2	46.0	15.8	
4	777.580	35.2	-3.5	31.7	46.0	14.3	

■ Operating Mode : VCR COPY_CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

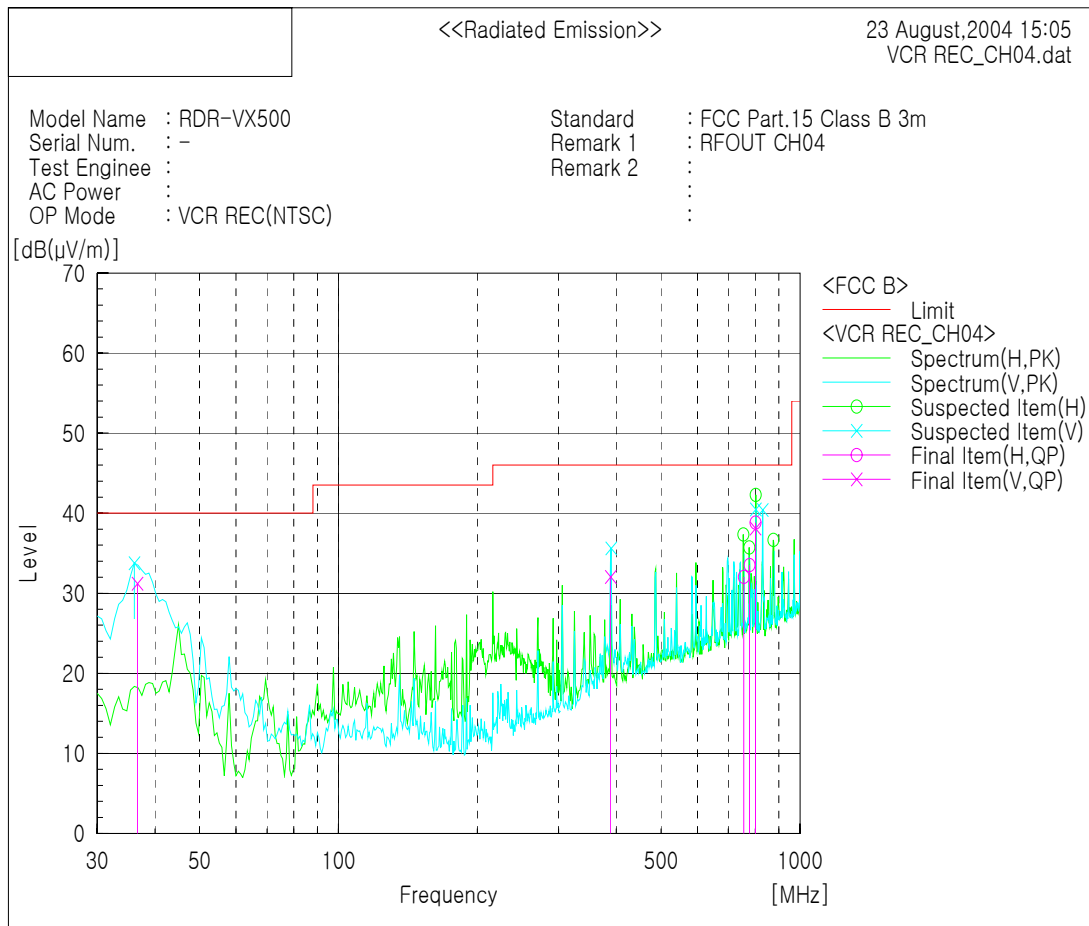
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	508.430	42.4	-7.3	35.1	46.0	10.9	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	41.698	46.5	-19.1	27.4	40.0	12.6	
2	388.800	47.0	-11.1	35.9	46.0	10.1	
3	485.990	41.3	-7.9	33.4	46.0	12.7	
4	701.980	36.3	-4.3	32.0	46.0	14.0	
5	728.980	38.6	-3.6	35.0	46.0	11.0	

■ Operating Mode : VCR REC(NTSC)_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

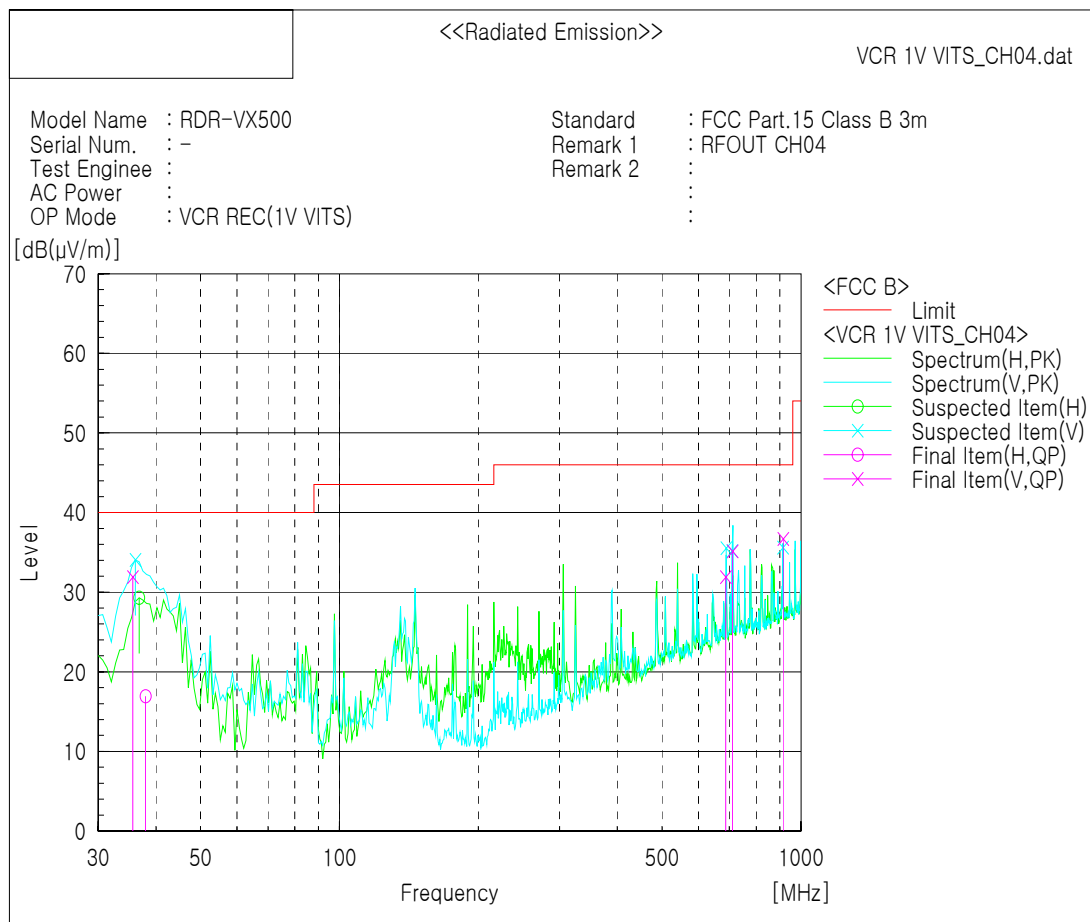
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	755.980	35.3	-3.3	32.0	46.0	14.0	
2	777.580	37.0	-3.5	33.5	46.0	12.5	
3	801.250	42.3	-3.5	38.8	46.0	7.2	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.703	47.7	-16.5	31.2	40.0	8.8	
2	388.800	43.2	-11.1	32.1	46.0	14.0	
3	801.250	41.6	-3.5	38.1	46.0	7.9	

■ Operating Mode : VCR REC(1V VITS)_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

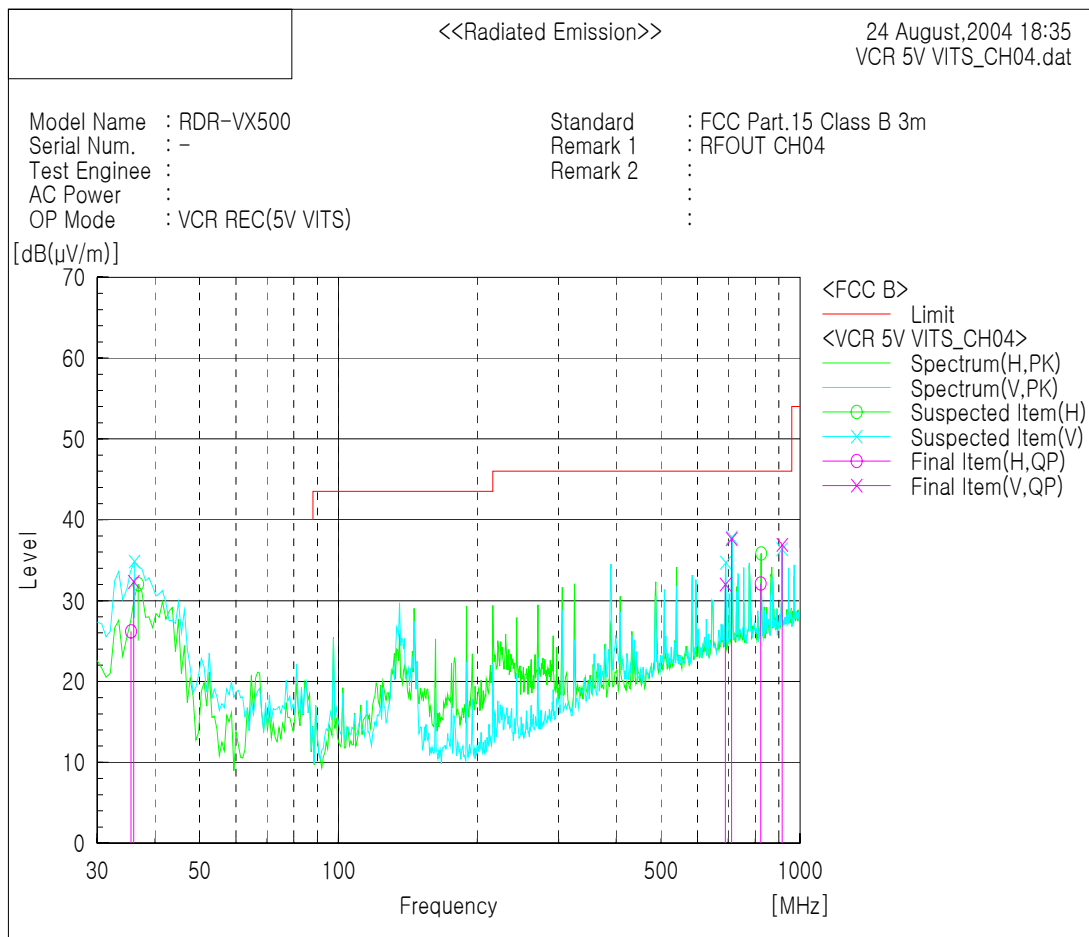
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	38.006	34.1	-17.2	16.9	40.0	23.1	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	35.650	47.8	-15.9	31.9	40.0	8.1	
2	687.430	36.5	-4.6	31.9	46.0	14.1	
3	711.810	39.1	-4.0	35.1	46.0	10.9	
4	915.180	38.0	-1.3	36.7	46.0	9.3	

■ Operating Mode : VCR REC(5V VITS)_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

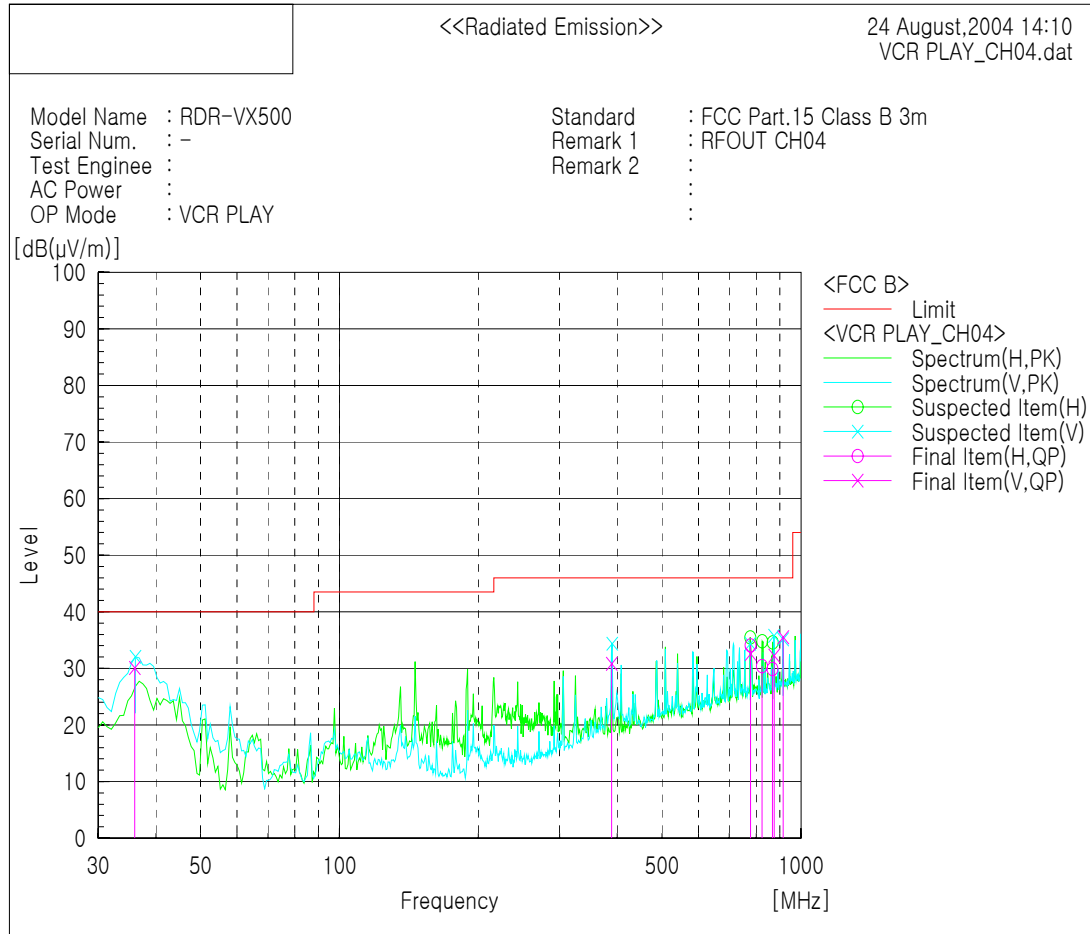
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	35.515	42.1	-15.9	26.2	40.0	13.8	
2	823.020	35.4	-3.3	32.1	46.0	13.9	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.001	48.4	-16.1	32.3	40.0	7.7	
2	689.810	36.5	-4.5	32.0	46.0	14.0	
3	711.810	41.6	-4.0	37.6	46.0	8.4	
4	915.180	38.2	-1.3	36.9	46.0	9.1	

■ Operating Mode : VCR PLAY_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

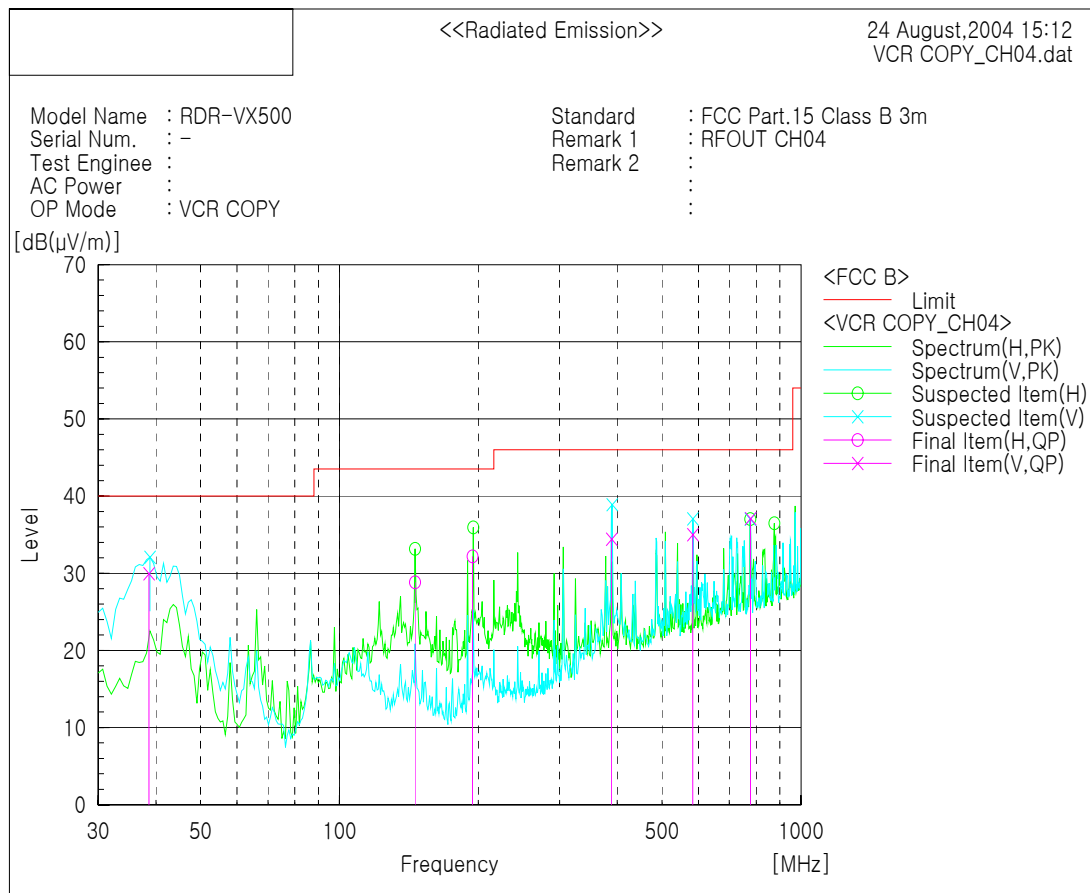
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	777.580	37.6	-3.5	34.1	46.0	11.9	
2	823.880	33.7	-3.3	30.4	46.0	15.6	
3	867.680	32.3	-2.4	29.9	46.0	16.1	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	36.008	46.2	-16.1	30.1	40.0	9.9	
2	388.800	41.9	-11.1	30.8	46.0	15.2	
3	777.580	36.1	-3.5	32.6	46.0	13.4	
4	874.790	34.6	-2.3	32.3	46.0	13.7	
5	915.180	36.8	-1.3	35.5	46.0	10.5	

■ Operating Mode : VCR COPY_CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	145.796	47.7	-18.9	28.8	43.5	14.7	
2	194.396	51.9	-19.7	32.2	43.5	11.3	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	38.647	47.4	-17.5	29.9	40.0	10.1	
2	388.800	45.5	-11.1	34.4	46.0	11.6	
3	583.190	41.1	-6.1	35.0	46.0	11.0	
4	777.580	40.6	-3.5	37.1	46.0	8.9	

3.3 Output Signal Level

Test Information		
	Test Engineer	Tae Young JANG
	Test Date	August 27, 2004
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 37%
	Test Place	Shield Room #5

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2004-09-20	12
Pre-Amplifier	8447D	Agilent	2944A10430	2005-07-20	12
Test Receiver	ESS	R&S	844861/005	2005-01-05	12
Matching Pad	RAM	R&S	834188/009	2005-01-08	12
Field strength meter	ESI	R&S	832692/002	2005-05-24	12
RF Matrix	PSU	R&S	861206/024	N/A	12

EUT Test Setup

The RF output terminal was connected to the test receiver through the matching pad(75-50 ohm) with a cable. Then, the RF output signal level was measured under the EUT Operating mode(s).

Test Result

Measurement Results	Pass No Operation errors were detected during or after the applied test.
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Test Data

■ Operating Mode : DVD RECORD(NTSC)

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.75601	71.8	-20	51.8	56.5	4.7
61.25701	86	-20	66	69.5	3.5
65.75402	71.4	-20	51.4	56.5	5.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD RECORD(NTSC)

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.73998	71.2	-20	51.2	56.5	5.3
67.22695	84.5	-19.9	64.6	69.5	4.9
71.71393	70.1	-19.9	50.2	56.5	6.3

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD RECORD(1V VITS)

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.75601	71.8	-20	51.8	56.5	4.7
61.25701	85.9	-20	65.9	69.5	3.6
65.75602	71.4	-20	51.4	56.5	5.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD RECORD(1V VITS)

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.72996	70.7	-20	50.7	56.5	5.8
67.23096	84.7	-19.9	64.8	69.5	4.7
71.72796	70.1	-19.9	50.2	56.5	6.3

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD RECORD(5V VITS)

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.75601	71.8	-20	51.8	56.5	4.7
61.25701	85.9	-20	65.9	69.5	3.6
65.75802	71.5	-20	51.5	56.5	5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD RECORD(5V VITS)

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.73597	71	-20	51	56.5	5.5
67.1989	81.7	-19.9	61.8	69.5	7.7
71.73197	70.3	-19.9	50.4	56.5	6.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD PLAY

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.77204	71.8	-20	51.8	56.5	4.7
61.25701	86	-20	66	69.5	3.5
65.74198	71.4	-20	51.4	56.5	5.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD PLAY

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.72996	70.7	-20	50.7	56.5	5.8
67.22695	84.5	-19.9	64.6	69.5	4.9
71.72996	70.2	-19.9	50.3	56.5	6.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD COPY

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.76002	71.8	-20	51.8	56.5	4.7
61.25501	86	-20	66	69.5	3.5
65.74398	71.3	-20	51.3	56.5	5.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD COPY

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.72795	70.6	-20	50.6	56.5	5.9
67.1969	81.5	-19.9	61.6	69.5	7.9
71.72595	70	-19.9	50.1	56.5	6.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR RECORD(NTSC)

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.76603	72.1	-20	52.1	56.5	4.4
61.25702	86.2	-20	66.2	69.5	3.3
65.75602	71.8	-20	51.8	56.5	4.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR RECORD(NTSC)

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.72996	71.1	-20	51.1	56.5	5.4
67.24298	85.1	-19.9	65.2	69.5	4.3
71.73998	70.6	-19.9	50.7	56.5	5.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR RECORD(1V VITS)

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.75802	72.1	-20	52.1	56.5	4.4
61.26102	86.1	-20	66.1	69.5	3.4
65.75802	71.8	-20	51.8	56.5	4.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR RECORD(1V VITS)

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.72795	70.5	-20	50.5	56.5	6
67.23096	84.6	-19.9	64.7	69.5	4.8
71.72996	70.1	-19.9	50.2	56.5	6.3

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR RECORD(5V VITS)

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.76002	72.2	-20	52.2	56.5	4.3
61.26102	86.1	-20	66.1	69.5	3.4
65.76002	71.8	-20	51.8	56.5	4.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR RECORD(5V VITS)

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.73196	70.7	-20	50.7	56.5	5.8
67.23096	84.5	-19.9	64.6	69.5	4.9
71.72796	70	-19.9	50.1	56.5	6.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR PLAY

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.75401	72.1	-20	52.1	56.5	4.4
61.25702	86.2	-20	66.2	69.5	3.3
65.76002	71.7	-20	51.7	56.5	4.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR PLAY

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.72395	70.4	-20	50.4	56.5	6.1
67.22495	84.4	-19.9	64.5	69.5	5
71.72595	70	-19.9	50.1	56.5	6.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR COPY

RF Output CH No. :3CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.77004	71.8	-20	51.8	56.5	4.7
61.25501	86	-20	66	69.5	3.5
65.76002	71.4	-20	51.4	56.5	5.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR COPY

RF Output CH No. :4CH

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.72194	70.2	-20	50.2	56.5	6.3
67.22896	84.6	-19.9	64.7	69.5	4.8
71.72395	69.9	-19.9	50	56.5	6.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

3.4 Output Terminal Conducted Spurious

Test Information		
	Test Engineer	Tae Young JANG
	Test Date	August 27, 2004
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 37%
	Test Place	Shield Room #5

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2004-09-20	12
Pre-Amplifier	8447D	Agilent	2944A10430	2005-07-20	12
Test Receiver	ESS	R&S	844861/005	2005-01-05	12
Matching Pad	RAM	R&S	834188/009	2005-01-08	12
Field strength meter	ESI	R&S	832692/002	2005-05-24	12
RF Matrix	PSU	R&S	861206/024	N/A	12

EUT Test Setup

The RF output terminal was connected to the test receiver through the matching pad(75-50 ohm) with a cable. Then, the RF output signal level was measured under the EUT Operating mode(s).

Tested frequency range were from 30MHz to more than 4.6MHz below the visual carrier frequency, and from more than 7.4MHz above the visual carrier frequency to 1000MHz

Test Result

Measurement Results	Pass No Operation errors were detected during or after the applied test.
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Test Data

■ Operating Mode : DVD REC(NTSC) RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.7745	43.1	-20.1	23	39.5	16.5
47.71103	34.4	-20.1	14.3	39.5	25.2
50.29112	36	-20.1	15.9	39.5	23.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(NTSC) RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.3	-19.5	20.8	39.5	18.7
735.06506	45	-18.7	26.3	39.5	13.2
980.09525	41.8	-17.5	24.3	39.5	15.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(NTSC) RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77244	43.1	-20.1	23	39.5	16.5
50.28913	36.2	-20.1	16.1	39.5	23.4
62.24596	33.5	-20	13.5	39.5	26.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(NTSC) RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48098	37.7	-19.4	18.3	39.5	21.2
268.96519	36.4	-18.5	17.9	39.5	21.6
806.88881	41.2	-18.5	22.7	39.5	16.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(1V VITS)

RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77504	42.9	-20.1	22.8	39.5	16.7
50.29165	36	-20.1	15.9	39.5	23.6
55.24353	36.1	-20	16.1	39.5	23.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(1V VITS)

RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.3	-19.5	20.8	39.5	18.7
735.07506	45	-18.7	26.3	39.5	13.2
980.08513	41.5	-17.5	24	39.5	15.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(1V VITS)

RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77244	43	-20.1	22.9	39.5	16.6
50.28913	36.2	-20.1	16.1	39.5	23.4
61.92535	31.1	-20	11.1	39.5	28.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(1V VITS)

RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48098	37.8	-19.4	18.4	39.5	21.2
268.97359	36.5	-18.5	18	39.5	21.5
806.90894	41.3	-18.5	22.8	39.5	16.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(5V VITS)

RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77504	43	-20.1	22.9	39.5	16.6
55.30975	46.4	-20	26.4	39.5	13.1
55.89136	39.7	-20	19.7	39.5	19.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(5V VITS)

RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.52	40.3	-19.5	20.8	39.5	18.7
735.05513	44.9	-18.7	26.2	39.5	13.3
980.06506	41.4	-17.5	23.9	39.5	15.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(5V VITS)

RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77244	43.1	-20.1	23	39.5	16.5
59.68827	39.1	-20	19.1	39.5	20.4
61.2946	46.1	-20	26.1	39.5	13.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(5V VITS)

RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48941	38	-19.4	18.6	39.5	21
268.97359	36.5	-18.5	18	39.5	21.5
806.89888	41.3	-18.5	22.8	39.5	16.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD PLAY

RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77344	42.9	-20.1	22.8	39.5	16.7
47.70889	34.4	-20.1	14.3	39.5	25.3
50.29272	36	-20.1	15.9	39.5	23.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD PLAY

RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.3	-19.5	20.8	39.5	18.7
735.06506	45	-18.7	26.3	39.5	13.3
980.09525	41.6	-17.5	24.1	39.5	15.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD PLAY

RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.74496	42.6	-20.1	22.5	39.5	17
59.69089	39.2	-20	19.2	39.5	20.3
61.29395	46.2	-20	26.2	39.5	13.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD PLAY

RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48098	37.8	-19.4	18.4	39.5	21.1
268.97359	36.5	-18.5	18	39.5	21.5
806.92888	41.3	-18.5	22.8	39.5	16.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD COPY

RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77023	43	-20.1	22.9	39.5	16.6
50.25427	36.4	-20.1	16.3	39.5	23.2
54.03119	27.7	-20	7.7	39.5	31.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD COPY

RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.5	-19.5	21	39.5	18.5
735.04513	45	-18.7	26.3	39.5	13.2
980.04513	41.5	-17.5	24	39.5	15.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD COPY

RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.74496	42.7	-20.1	22.6	39.5	16.9
50.2309	35.7	-20.1	15.6	39.5	23.9
60.08348	36.5	-20	16.5	39.5	23

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD COPY

RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48098	37.9	-19.4	18.5	39.5	21
268.95681	36.5	-18.5	18	39.5	21.5
806.87894	41.5	-18.5	23	39.5	16.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(NTSC) RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77237	42.9	-20.1	22.8	39.5	16.7
47.78153	34.6	-20.1	14.5	39.5	25
50.25694	35.8	-20.1	15.7	39.5	23.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(NTSC) RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.5	-19.5	21	39.5	18.5
735.035	44.9	-18.7	26.2	39.5	13.3
980.05513	41.5	-17.5	24	39.5	15.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(NTSC) RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.7443	42.7	-20.1	22.6	39.5	16.9
50.22763	35.6	-20.1	15.5	39.5	24
60.08675	35.2	-20	15.2	39.5	24.3

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(NTSC) RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48941	37.8	-19.4	18.4	39.5	21.1
268.96519	36.6	-18.5	18.1	39.5	21.4
806.87894	41.3	-18.5	22.8	39.5	16.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(1V VITS)

RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77183	42.9	-20.1	22.8	39.5	16.7
50.28898	36.1	-20.1	16	39.5	23.5
55.243	36	-20	16	39.5	23.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(1V VITS)

RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.4	-19.5	20.9	39.5	18.6
735.09519	44.9	-18.7	26.2	39.5	13.4
980.06506	41.3	-17.5	23.8	39.5	15.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(1V VITS)

RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.74823	42.6	-20.1	22.5	39.5	17
50.26362	36	-20.1	15.9	39.5	23.7
62.24072	33.3	-20	13.3	39.5	26.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(1V VITS)

RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48098	37.7	-19.4	18.3	39.5	21.2
268.96519	36.5	-18.5	18	39.5	21.5
806.86881	41	-18.5	22.5	39.5	17

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(5V VITS)

RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77663	43	-20.1	22.9	39.5	16.6
54.94819	41	-20	21	39.5	18.5
55.30815	47	-20	27	39.5	12.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(5V VITS)

RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.3	-19.5	20.8	39.5	18.7
735.06506	45	-18.7	26.3	39.5	13.2
980.09525	41.5	-17.5	24	39.5	15.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(5V VITS)

RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.74692	42.7	-20.1	22.6	39.5	16.9
59.69416	39.3	-20	19.3	39.5	20.2
61.29525	46.2	-20	26.2	39.5	13.3

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(5V VITS)

RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48941	37.8	-19.4	18.4	39.5	21.1
268.97359	36.5	-18.5	18	39.5	21.5
806.90894	41.3	-18.5	22.8	39.5	16.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR PLAY

RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77344	43	-20.1	22.9	39.5	16.6
50.28791	36	-20.1	15.9	39.5	23.6
54.11023	29.3	-20	9.3	39.5	30.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR PLAY

RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.4	-19.5	20.9	39.5	18.6
735.035	45	-18.7	26.3	39.5	13.2
980.04513	41.5	-17.5	24	39.5	15.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR PLAY

RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.74365	42.7	-20.1	22.6	39.5	16.9
50.22894	35.7	-20.1	15.6	39.5	23.9
62.17464	32.9	-20	12.9	39.5	26.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR PLAY

RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48098	37.9	-19.4	18.5	39.5	21.1
268.96519	36.5	-18.5	18	39.5	21.5
806.87894	41.4	-18.5	22.9	39.5	16.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR COPY

RF Output CH No. :3CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77023	43	-20.1	22.9	39.5	16.6
50.28631	36	-20.1	15.9	39.5	23.6
55.24032	35.3	-20	15.3	39.5	24.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR COPY

RF Output CH No. :3CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
122.51151	40.5	-19.5	21	39.5	18.5
735.035	45	-18.7	26.3	39.5	13.2
980.03506	41.4	-17.5	23.9	39.5	15.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR COPY

RF Output CH No. :4CH[Spurious Low]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.77244	43.1	-20.1	23	39.5	16.5
50.28717	36.2	-20.1	16.1	39.5	23.4
62.42066	33	-20	13	39.5	26.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR COPY

RF Output CH No. :4CH[Spurious High]

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
134.48098	37.9	-19.4	18.5	39.5	21
268.95681	36.5	-18.5	18	39.5	21.5
806.86881	41.4	-18.5	22.9	39.5	16.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

3.5 Antenna Transfer Switch Measurement

Test Information		
	Test Engineer	Tae Young JANG
	Test Date	August 27, 2004
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 37%
	Test Place	Shield Room #5

Test Equipments

Equipment	Model Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2004-09-20	12
Pre-Amplifier	8447D	Agilent	2944A10430	2005-07-20	12
Test Receiver	ESS	R&S	844861/005	2005-01-05	12
Matching Pad	RAM	R&S	834188/009	2005-01-08	12
Field strength meter	ESI	R&S	832692/002	2005-05-24	12
RF Matrix	PSU	R&S	861206/024	N/A	12

EUT Test Setup

The Antenna input terminal is connected to the test receiver through the matching pad (75 – 50 ohm) with a calibrated cable. Then, the RF output leakage level is measured under the EUT operating mode(s).

Test Result

Measurement Results	Pass No Operation errors were detected during or after the applied test.
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Test Data

■ Operating Mode : DVD REC(1V VITS)

RF Output CH No. :3CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.25395	21.9	-20	1.9	9.5	7.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(1V VITS)

RF Output CH No. :4CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.24383	22.3	-19.9	2.4	9.5	7.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(5V VITS)

RF Output CH No. :3CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.25471	21.9	-20	1.9	9.5	7.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD REC(5V VITS)

RF Output CH No. :4CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.24398	22.2	-19.9	2.3	9.5	7.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD PLAY

RF Output CH No. :3CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.25651	21.9	-20	1.9	9.5	7.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD PLAY

RF Output CH No. :4CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.24398	22.4	-19.9	2.5	9.5	7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD COPY

RF Output CH No. :3CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.2529	21.9	-20	1.9	9.5	7.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : DVD COPY

RF Output CH No. :4CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.23998	22.5	-19.9	2.6	9.5	6.9

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(1V VITS)

RF Output CH No. :3CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.25539	21.9	-20	1.9	9.5	7.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(1V VITS)

RF Output CH No. :4CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.24398	22.4	-19.9	2.5	9.5	7.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(5V VITS)

RF Output CH No. :3CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.46457	21.8	-20	1.8	9.5	7.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR REC(5V VITS)

RF Output CH No. :4CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.24263	22.2	-19.9	2.3	9.5	7.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR PLAY

RF Output CH No. :3CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.25282	21.9	-20	1.9	9.5	7.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR PLAY

RF Output CH No. :4CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.23998	22.5	-19.9	2.6	9.5	7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR COPY

RF Output CH No. :3CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
62.15331	21.8	-20	1.8	9.5	7.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ Operating Mode : VCR COPY

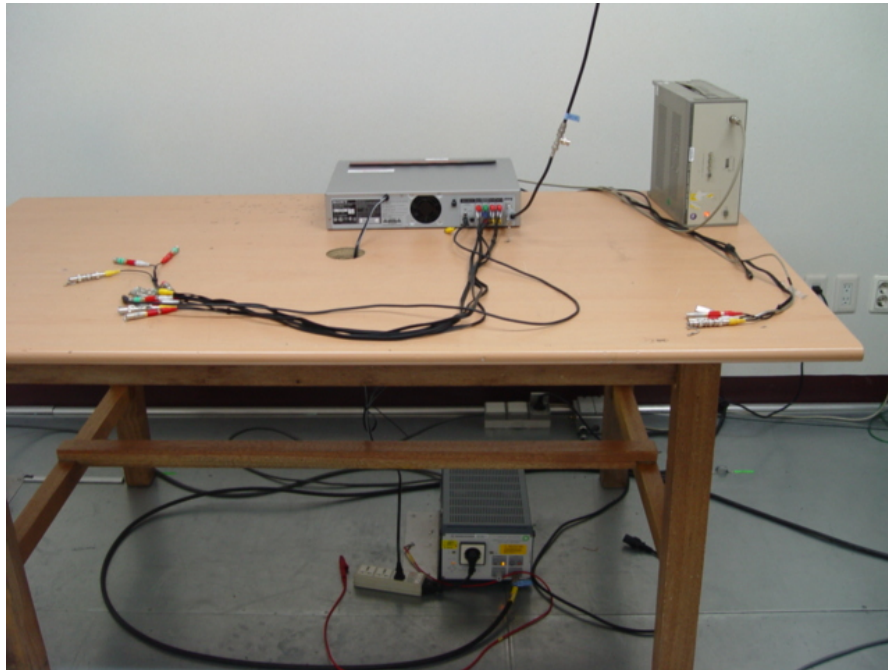
RF Output CH No. :4CH

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.23998	22.4	-19.9	2.5	9.5	7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

4. Appendix A

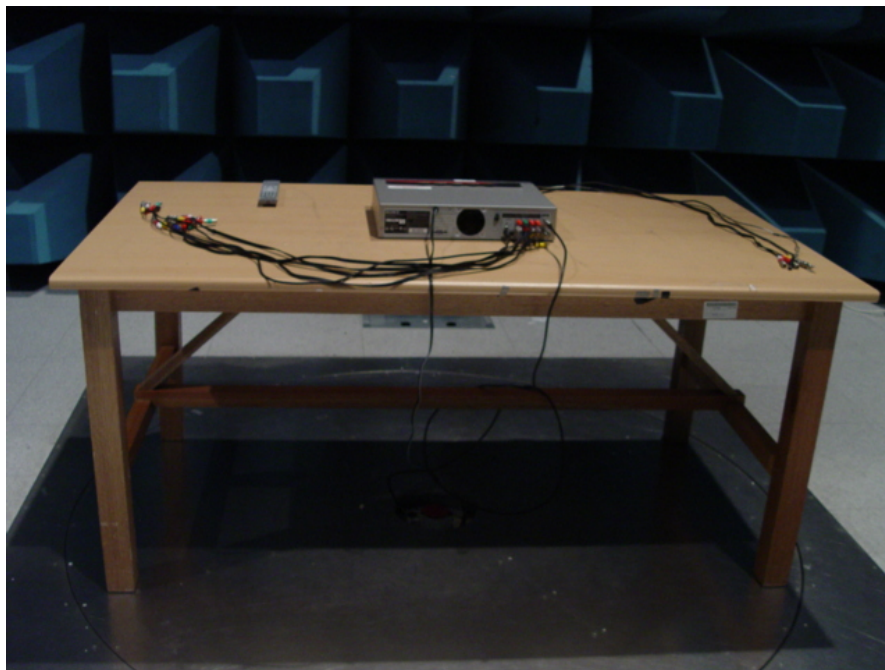
4.1 Test Photography



Picture 1. Conducted Emission (Front)



Picture 2. Radiated Emission (Front)



Picture 3. Radiated Emission (Rear)



Picture 4. Output Signal Level



Picture 5. Output Terminal Conducted Spurious Emission



Picture 6. Ant. Transfer Switch

4.2 EUT Photography



Picture 7. EUT (Front)



Picture 8. EUT (Rear)