

TEST REPORT FOR FCC
Class II PERMISSIVE CHANGE
On Behalf of
LG Electronics Inc.
Wireless DVD Receiver
Model No. : XV-THG51
Brand: JVC
FCC ID : BEJ9QK-HW904PA

Prepared for : LG Electronics Inc.
19-1, Cheongho-Ri, Jinwuy-Myun,
Pyungtaek-City, Kyungki-Do, 451-713
Korea.

Prepared by : AUDIX Technology Corporation
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei Hsien, Taiwan

Tel : (02) 2609-9301, 2609-2133
Fax: (02) 2609-9303

File Number : EM980042R1
Report Number : EM-F980201
Date of Test : Mar. 26, 2009
Date of Report : Mar. 27, 2009

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TEST REPORT CERTIFICATION (Class II Permissive Change)

Applicant	:	LG Electronics Inc.	
Manufacturer #1	:	LG Electronics Inc.	
Manufacturer #2	:	LG Electronics (Huizhou) Inc. Huitai Factory	
Manufacturer #3	:	SHEN ZHEN KWANG SUNG Electronics H.K. Co., Ltd.	
Manufacturer #4	:	PT. LG Electronics Indonesia (Factory 1)	
EUT Description	:	Wireless DVD Receiver	
FCC ID	:	BEJ9QK-HW904PA	
(A) Model No.	:	XV-THG51	
(B) Serial No.	:	N/A	
(C) Brand	:	JVC	
(D) Power Supply	:	AC 120V~ 60Hz	
(E) Test Voltage	:	AC 120V/60Hz	

Measurement Procedure Used:

FCC Public Notice DA 00-705 Released March 30, 2000
FCC RULES AND REGULATIONS PART 15 SUBPART C, July 2008
AND ANSI C63.4/2003

(Receive Function with FCC CFR 47 Part 15B, §15.107 and §15.109)
(Transmit Function with FCC CFR 47 Part 15C, §15.207 and §15.209 and §15.247)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart B and C limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

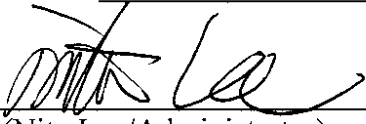
This report is based on report of EM-F970773.

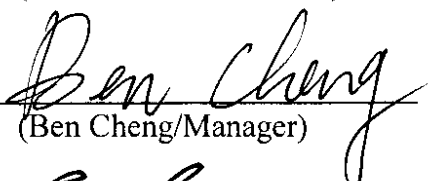
Date of Test: Mar. 26, 2009

Date of Report: Mar. 27, 2009

Date of Test of Original: Dec. 01 ~ 12, 2008

Date of Original: Dec. 10, 2008

Producer : 
(Nita Lee/Administrator)

Preview : 
(Ben Cheng/Manager)

Signatory : 
(Leon Liu/Deputy General Manager)

1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Summary	Report No.
Rev. 0	Dec. 10, 2008	Original Report.	EM-F970773
Rev. 1	Mar. 27, 2009	1. To add a new model number “XV-THG51” for JVC brand and the operating panel is differently. The purpose of the change is to add model and brand under the original model of HW904PA. 2. Supplementary test data are recorded in test report.	EM-F980201

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Wireless DVD Receiver
Model Number	:	XV-THG51
		① The EUT have transmit and receive function. ② The Wireless DVD receiver include transmitter (M/N XV-THG51) and receiver (M/N RX-THG51) and these devices are all the same RF module. ③ The receiver (M/N RX-THG51) FCC ID is BEJ9QK-W94R.
FCC ID	:	BEJ9QK-HW904PA
Brand Name	:	JVC
Applicant	:	LG Electronics Inc. 19-1, Cheongho-Ri, Jinwuy-Myun, Pyungtaek-City, Kyungki-Do, 451-713 Korea.
Manufacturer #1	:	LG Electronics Inc. 19-1, Cheongho-Ri, Jinwuy-Myun, Pyungtaek-City, Kyungki-Do, 451-713 Korea
Manufacturer #2	:	LG Electronics (Huizhou) Inc. Huitai Factory No. 1 Xingda Road, Huitai Industrial Park of Zhongkai Development Zone Huizhou City, Guangdong, China
Manufacturer #3	:	SHEN ZHEN KWANG SUNG Electronics H.K. Co., Ltd. Shi Tou Shan Industrial Zone, Zhuan Chang Village, Shiyen Town, Baoan District, Shenzhen City, Guang Dong Province, China
Manufacturer #4	:	PT LG Electronics Indonesia(Factory 1) Block G-MM 2100 Industrial Town Cikarang Barat_Bekasi 17520, west Java Indonesia
TX/RX Module	:	Eleven Engineering Incorporatec, M/N WHAM2-D2

Fundamental Range : 2400MHz ~ 2483.5MHz
 Channel Number : 20
 Radio Technology : FHSS Modulation
 Antenna Gain : 0.94dBi
 Date of Receipt of Sample : Mar. 25, 2009
 Date of Test : Mar. 26, 2009

List of Interface Ports of EUT

Model XV-THG51

Front View : One Audio Port

Back View : One Set Speaker Ports
 (Rear L/R, Front L/R, Center, SUB Woofer)
 One FM Port
 One Optical Port
 One HDMI Input Port
 One Set Component Video (P_R, P_B, Y) Output Ports
 One AUX Input Port
 One Monitor Input Port
 One HDMI Output Ports
 One AC Power Cord

Model RX-THG51

Back View : One Set Speaker Ports (+L/R, -L/R)

Information for Class II Permissive Change:

1. This EUT is additional version with original FCC ID BEJ9QK-HW904PA.
2. The difference is to add a new model number "XV-THG51" for JVC brand and the operating panel is differently. The purpose of the change is to add model and brand under the original model of HW904PA.
3. This report is based on report of EM-F970773.

2.2. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**
EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien, Taiwan

Test Location & Facility : **Semi-Anechoic Chamber**
 (Semi-AC)
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien, Taiwan
 Federal Communication Commission
 Registration Number: 90993
 Filing on May 19, 2006

NVLAP Lab. Code : 200077-0
 (NVLAP is a NATA accredited body under Mutual Recognition Agreement)

TAF Accreditation No. : 1724

2.3. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Radiation Test (Distance: 10m)	30MHz~300MHz	±2.99dB
	300MHz~1000MHz	±2.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	±2.91dB
	300MHz~1000MHz	±2.94dB
	Above 1GHz	± 5.02dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
Maximum peak Output power	± 0.52dBm

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency 30MHz~1000MHz (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 24, 08'	Oct. 23, 09'
2.	Test Receiver	R & S	ESCS30	100265	Aug. 28, 08'	Aug. 27, 09'
3.	Pre-Amplifier	HP	8447D	2944A06305	Feb. 04, 09'	Feb. 03, 10'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Apr. 10, 08'	Apr. 09, 09'
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Apr. 10, 08'	Apr. 09, 09'

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

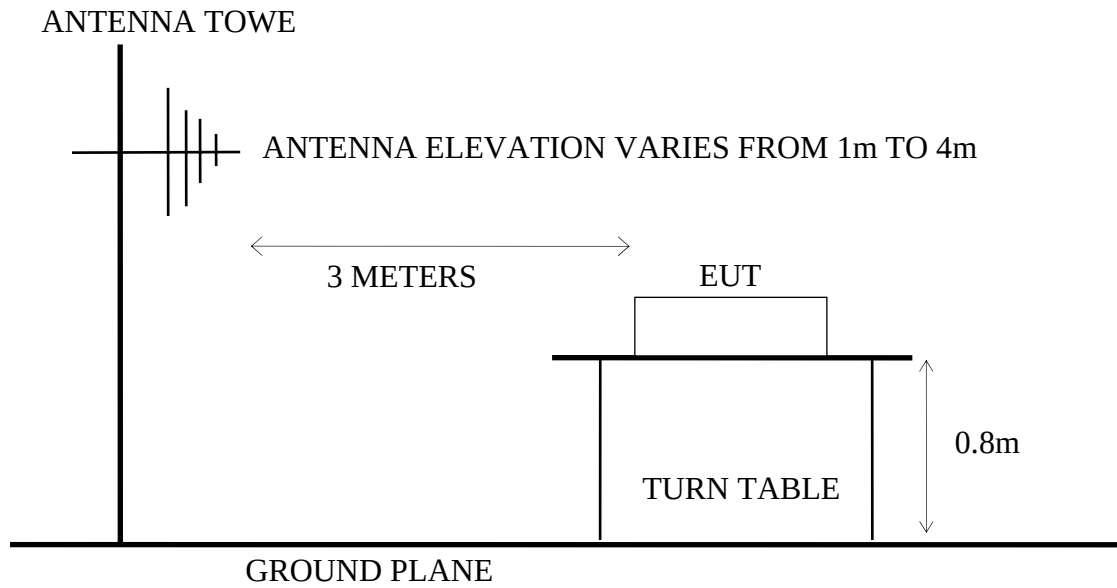
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 24, 08'	Oct. 23, 09'
2.	Amplifier	HP	8449B	3008A00529	Dec. 31, 08'	Dec. 30, 09'
3.	2.4GHz Notch Filter	EWT	EWT-14-0070	G2	Dec. 05, 08'	Dec. 04, 09'
4.	Horn Antenna	EMCO	3115	9112-3775	May 20, 08'	May 19, 09'
5.	Horn Antenna	EMCO	3116	2653	Oct. 03, 08'	Oct. 02, 09'
6.	3.5G High Pass Filter	HP	84300-80038	005	Jan. 08, 09'	Jan. 07, 10'

3.2. Test Setup

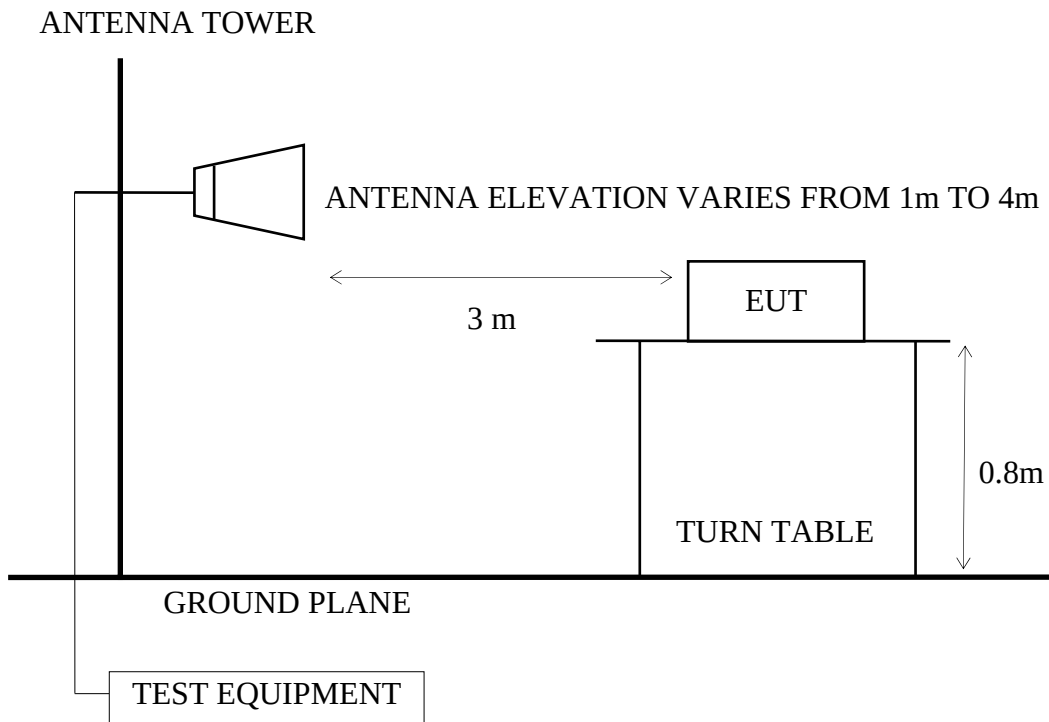
3.2.1. For Transmitting mode



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits

Frequency MHz	Distance Meters	Field Strengths Limits	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)
 - (2) The tighter limit applies at the edge between two frequency bands.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 - (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
 - (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

- 3.4.1. Set up the EUT (Wireless DVD Receiver) and simulator as shown on 3.2.
- 3.4.2. To turn on the power of all equipment.
- 3.4.3. The EUT (Wireless DVD Receiver) was operated on normal function (transmitting) during all testing.

3.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the Spectrum Analyzer was set at 1MHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked.

3.6. Radiated Emission Measurement Results

PASSED. All the emissions not reported below are too low against the official limits.

EUT : Wireless DVD Receiver

M/N : XV-THG51

Test Date : Mar. 26, 2009 Temperature : 23°C Humidity : 57%

For Frequency Range 30MHz~25GHz:

The EUT with the following test modes was tested in frequency range of 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) and all the test results are listed in section 3.6.1.~3.6.2

Mode	Operation	Frequency	Test Frequency	Reference Test Data No.	
				Horizontal	Vertical
1.	Transmitting	2403.328MHz (CH0)	30-1000MHz	# 11	# 12
			1000-2680MHz	# 2	# 1
			2680-3500MHz	# 3	# 4
			3500-5500MHz	# 5	# 6
			5500-18000MHz	# 8	# 7
			18000-25000MHz	# 9	# 10
2.	Transmitting	2442.240MHz (CH19)	30-1000MHz	# 11	# 12
			1000-2680MHz	# 1	# 2
			2680-3500MHz	# 4	# 3
			3500-5500MHz	# 5	# 6
			5500-18000MHz	# 7	# 8
			18000-25000MHz	# 9	# 10
3.	Transmitting	2479.104MHz (CH37)	30-1000MHz	# 11	# 12
			1000-2680MHz	# 5	# 6
			2680-3500MHz	# 8	# 7
			3500-5500MHz	# 1	# 2
			5500-18000MHz	# 4	# 3
			18000-25000MHz	# 10	# 9

Remark 1 : The emissions level were too low against the official limit and not report.

Remark 2 : The average measurement of frequency range from 1000MHz to 25000MHz is measured at 1m distance and doesn't find any spurious emission in this frequency range. So just provide the peak measurement results.

For Restricted Bands:

Test Date : Mar. 26, 2009 Temperature : 23°C Humidity : 57%

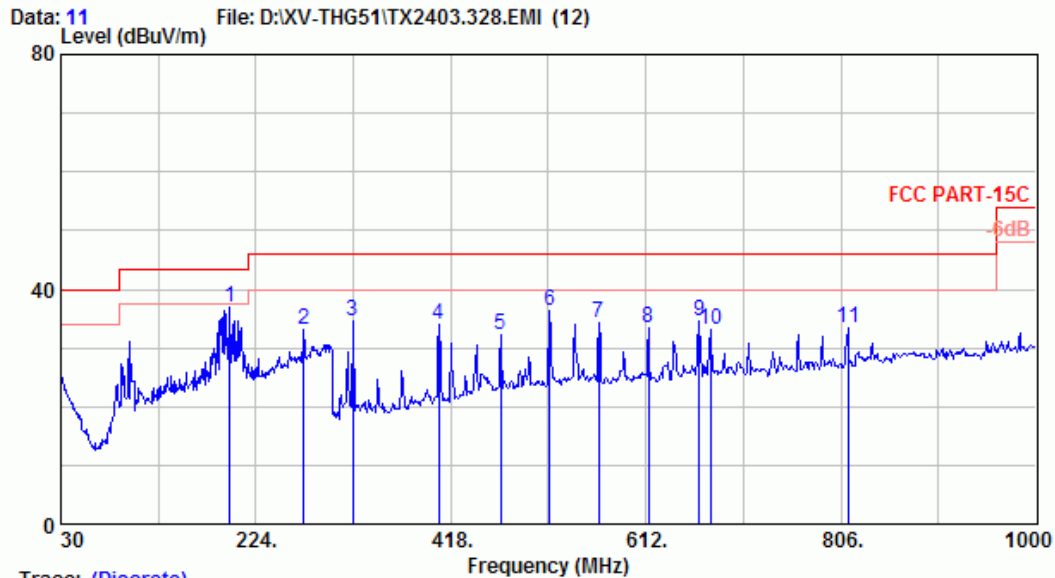
The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

Mode	Operation	Frequency	Test Frequency	Reference Test Data No.			
				Horizontal		Vertical	
				Peak	Average	Peak	Average
1.	Transmitting	2403.328MHz (CH0)	2310-2420MHz	# 1	# 4	# 2	# 3
2.	Transmitting	2479.104MHz (CH37)	2460-2520MHz	# 5	# 8	# 6	# 7

3.6.1. Frequency Range 30MHz~1000MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 11
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:XV-THG51
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328

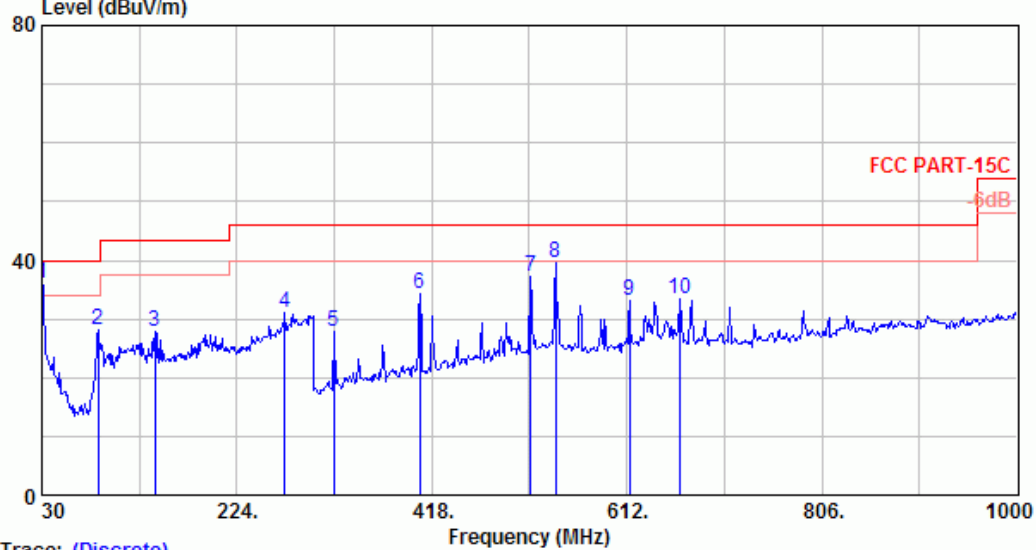
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	197.810	22.02	3.00	11.99	37.02	43.50	6.48	
2	271.530	25.06	3.70	4.40	33.16	46.00	12.84	
3	320.030	14.99	4.20	15.49	34.68	46.00	11.32	
4	406.360	17.35	4.90	11.64	33.88	46.00	12.12	
5	467.470	18.21	5.80	8.12	32.13	46.00	13.87	
6	515.970	19.98	6.80	9.41	36.19	46.00	9.81	
7	565.440	20.49	6.60	7.32	34.41	46.00	11.59	
8	614.910	21.33	6.30	5.73	33.36	46.00	12.64	
9	665.350	22.65	6.40	5.56	34.61	46.00	11.39	
10	676.020	22.89	6.40	3.85	33.13	46.00	12.87	
11	812.790	24.02	7.00	2.42	33.44	46.00	12.56	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw

Data: 12 File: D:\XV-THG51\TX2403.328.EMI (12)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m VBA6106A/UHALP9108A	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C		
Env. / Ins.	: 8564EC 23°C/57%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N:XV-THG51		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328		

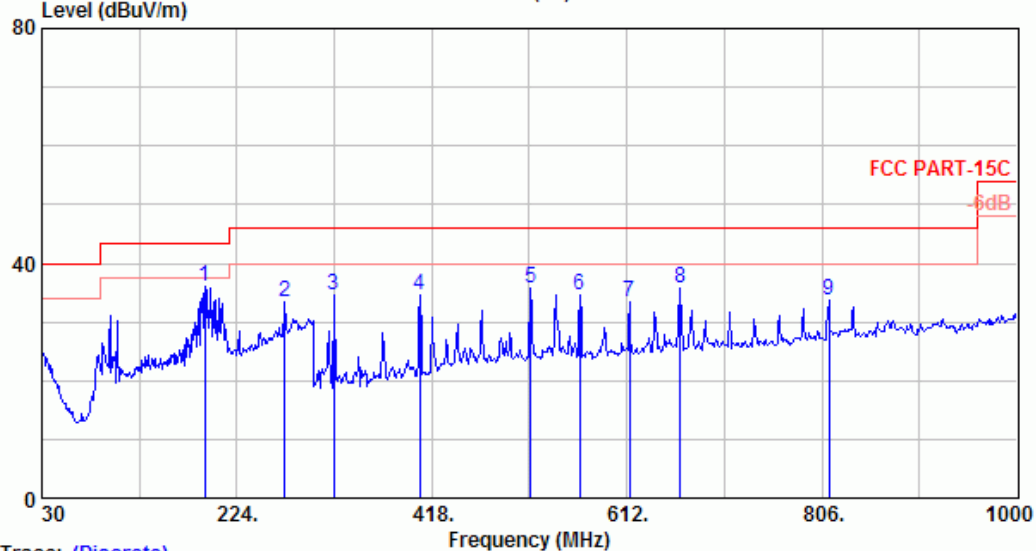
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.000	24.86	1.10	10.23	36.19	40.00	3.81	
2	86.260	14.98	1.90	11.18	28.05	40.00	11.95	
3	142.520	20.26	2.50	5.14	27.91	43.50	15.59	
4	271.530	25.06	3.70	2.31	31.07	46.00	14.93	
5	320.030	14.99	4.20	8.63	27.82	46.00	18.18	
6	406.360	17.35	4.90	12.03	34.27	46.00	11.73	
7	515.970	19.98	6.80	10.41	37.19	46.00	8.81	
8	541.190	19.25	7.01	13.43	39.69	46.00	6.31	
9	614.910	21.33	6.30	5.56	33.19	46.00	12.81	
10	665.350	22.65	6.40	4.27	33.32	46.00	12.68	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 11 File: D:\XV-THG51\TX2442.240.EMI (12)



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 11
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240

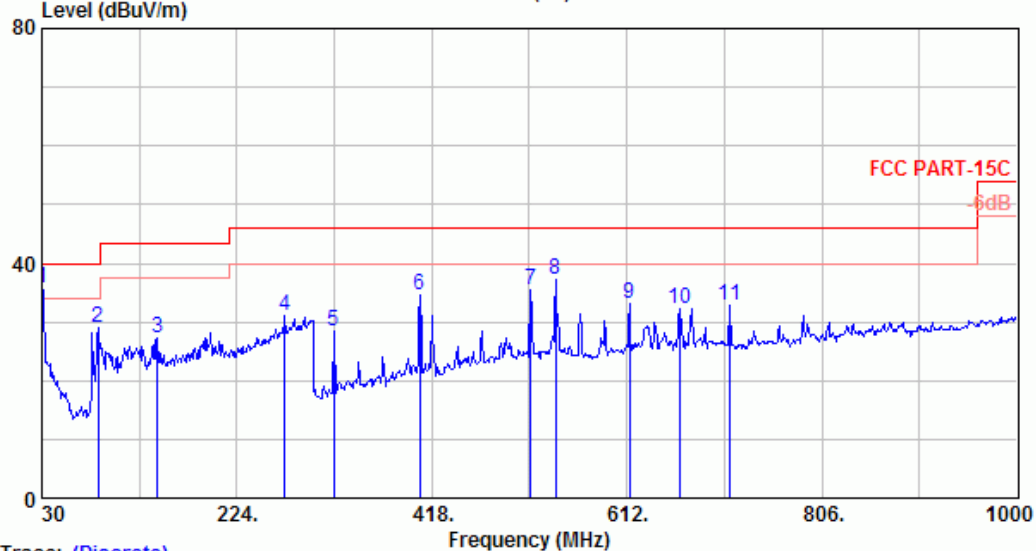
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	191.990	21.60	3.00	11.55	36.15	43.50	7.35	
2	271.530	25.06	3.70	4.71	33.47	46.00	12.53	
3	320.030	14.99	4.20	15.28	34.47	46.00	11.53	
4	406.360	17.35	4.90	12.38	34.62	46.00	11.38	
5	515.970	19.98	6.80	9.10	35.88	46.00	10.12	
6	565.440	20.49	6.60	7.37	34.46	46.00	11.54	
7	614.910	21.33	6.30	5.80	33.43	46.00	12.57	
8	665.350	22.65	6.40	6.81	35.86	46.00	10.14	
9	812.790	24.02	7.00	2.61	33.63	46.00	12.37	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw

Data: 12 File: D:\XV-THG51\TX2442.240.EMI (12)



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 12
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240

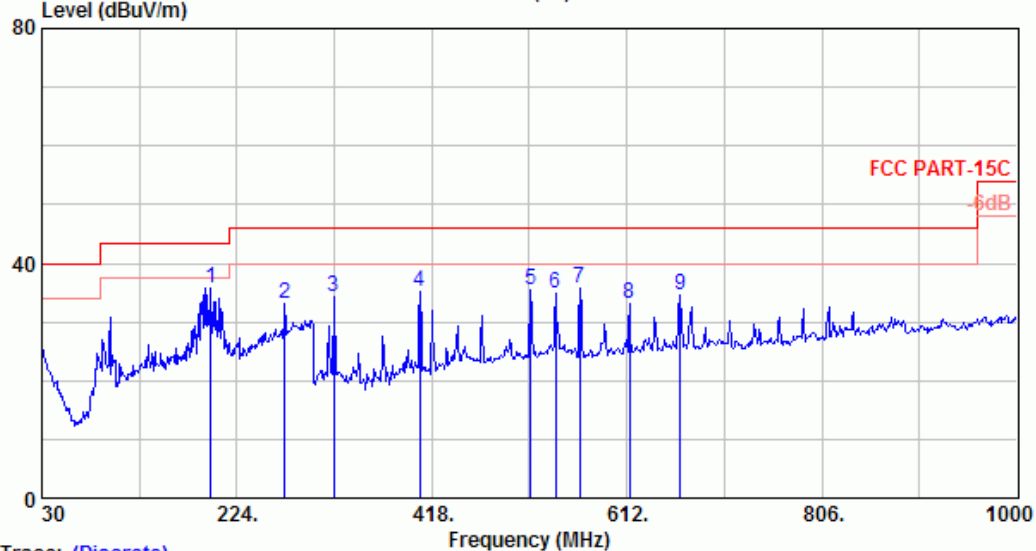
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	24.86	1.10	9.76	35.72	40.00	4.28	
2	86.260	14.98	1.90	12.05	28.92	40.00	11.08	
3	145.430	20.40	2.59	4.23	27.22	43.50	16.28	
4	271.530	25.06	3.70	2.40	31.16	46.00	14.84	
5	320.030	14.99	4.20	9.12	28.31	46.00	17.69	
6	406.360	17.35	4.90	12.24	34.48	46.00	11.52	
7	515.970	19.98	6.80	8.67	35.45	46.00	10.55	
8	541.190	19.25	7.01	10.85	37.11	46.00	8.89	
9	614.910	21.33	6.30	5.59	33.22	46.00	12.78	
10	665.350	22.65	6.40	3.29	32.34	46.00	13.66	
11	714.820	22.95	6.60	3.24	32.79	46.00	13.21	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 11 File: D:\XV-THG51\TX2479.104.EMI (12)



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 11
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104

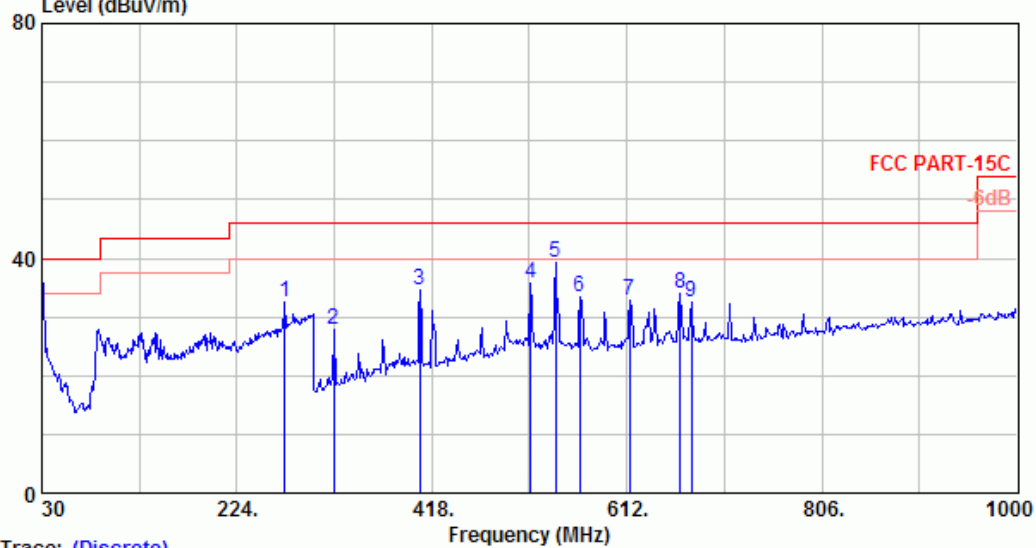
		Ant. Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	197.810	22.02	3.00	10.75	35.78	43.50	7.72
2	271.530	25.06	3.70	4.21	32.97	46.00	13.03
3	320.030	14.99	4.20	15.18	34.37	46.00	11.63
4	406.360	17.35	4.90	12.89	35.13	46.00	10.87
5	515.970	19.98	6.80	8.63	35.41	46.00	10.59
6	541.190	19.25	7.01	8.72	34.98	46.00	11.02
7	565.440	20.49	6.60	8.55	35.64	46.00	10.36
8	614.910	21.33	6.30	5.44	33.07	46.00	12.93
9	665.350	22.65	6.40	5.60	34.65	46.00	11.35

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 12 File: D:\XV-THG51\TX2479.104.EMI (12)



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 12
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	271.530	25.06	3.70	3.89	32.65	46.00	13.35	
2	320.030	14.99	4.20	8.66	27.85	46.00	18.15	
3	406.360	17.35	4.90	12.38	34.62	46.00	11.38	
4	515.970	19.98	6.80	8.92	35.70	46.00	10.30	
5	541.190	19.25	7.01	13.13	39.39	46.00	6.61	
6	565.440	20.49	6.60	6.43	33.52	46.00	12.48	
7	614.910	21.33	6.30	5.14	32.77	46.00	13.23	
8	665.350	22.65	6.40	4.84	33.89	46.00	12.11	
9	676.020	22.89	6.40	3.25	32.53	46.00	13.47	

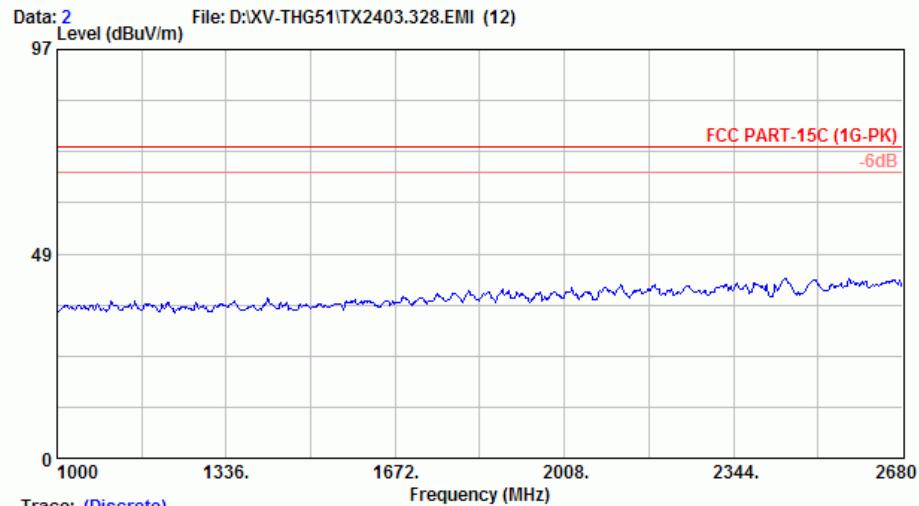
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.2. Frequency Range 1000MHz~25GHz

Date of Test : Mar. 26, 2009 Temperature : 23°C

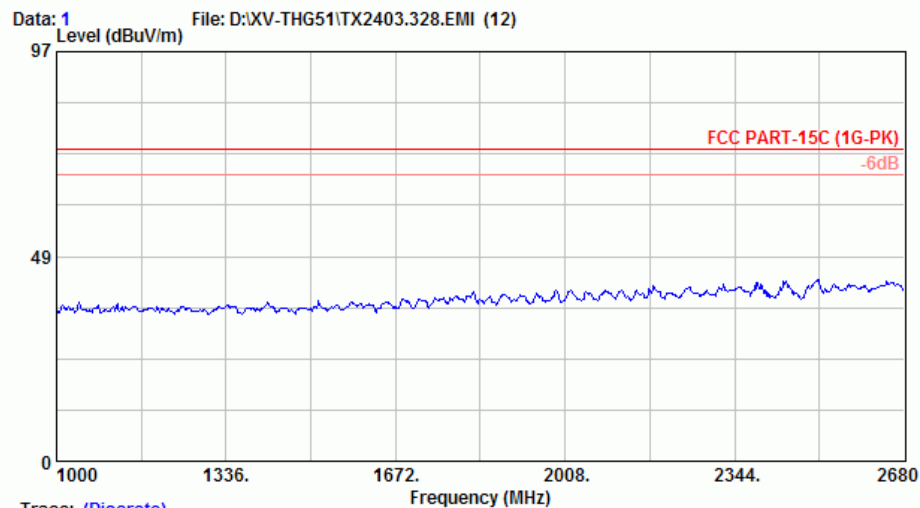
EUT : Wireless DVD Receiver Humidity : 57%

Test Mode : Transmitting Mode, Test Voltage : AC 120V/60Hz
Frequency: 2403.328MHz (CH0)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 2
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 23°C/57%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328	



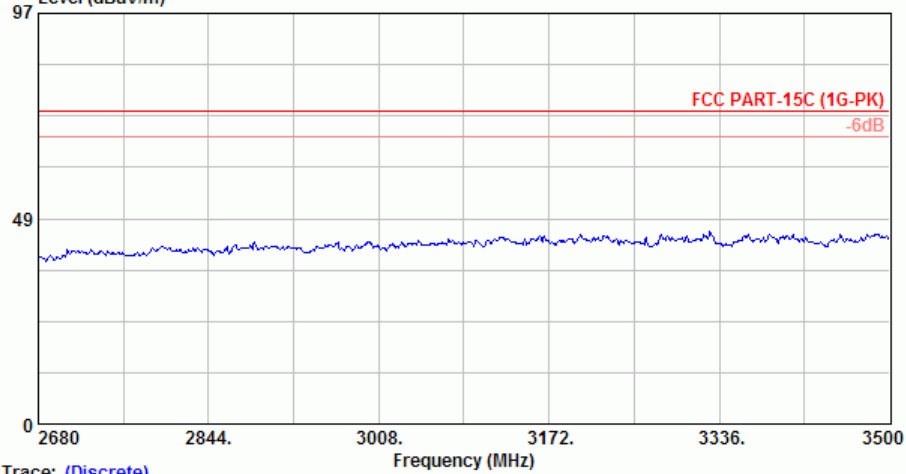
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 1
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 23°C/57%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328	



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 3 File: D:\XV-THG51\TX2403.328.EMI (12)
Level (dBuV/m)

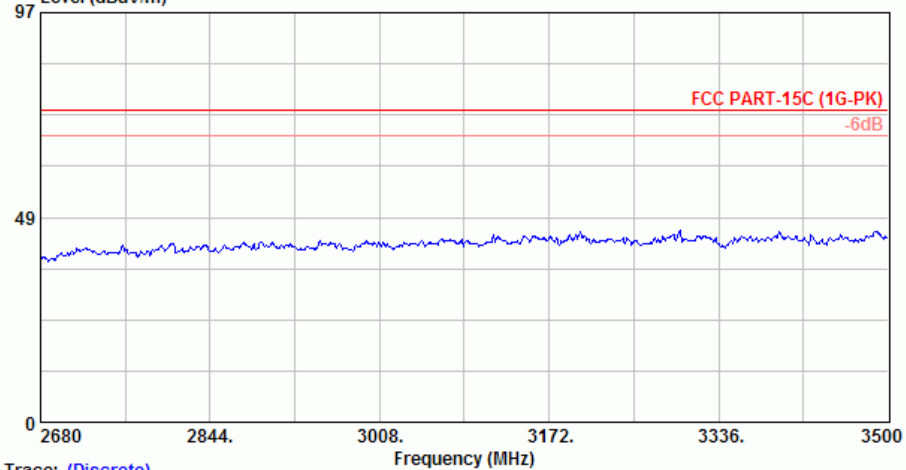


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2403.328



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 4 File: D:\XV-THG51\TX2403.328.EMI (12)
Level (dBuV/m)

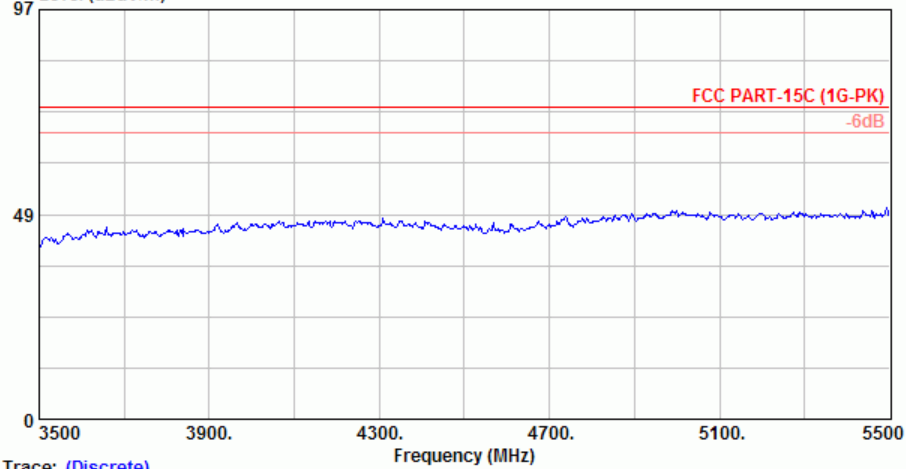


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2403.328



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 5 File: D:\XV-THG51\TX2403.328.EMI (12)
Level (dBuV/m)

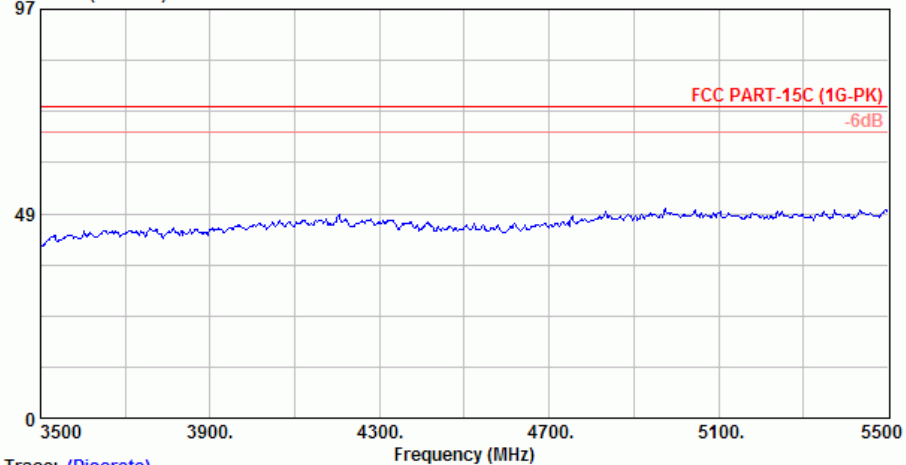


Site no. : A/C Chamber	Data no. : 5
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 23°C/57%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328	



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 6 File: D:\XV-THG51\TX2403.328.EMI (12)
Level (dBuV/m)

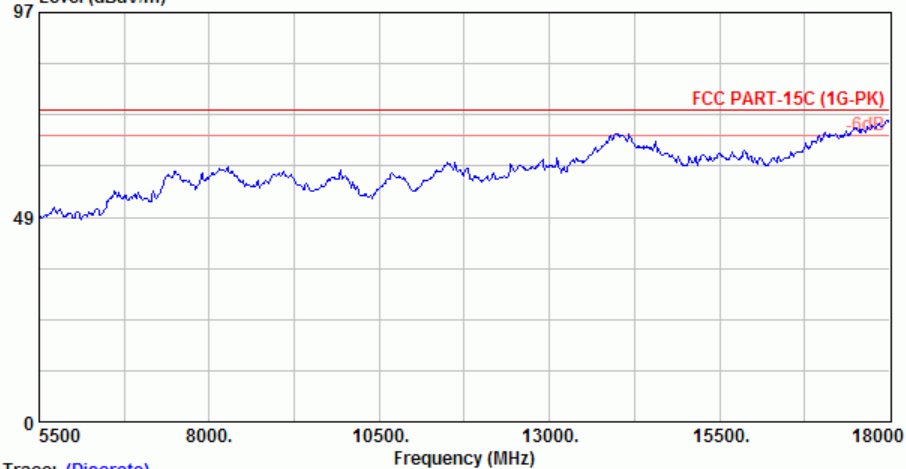


Site no. : A/C Chamber	Data no. : 6
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 23°C/57%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328	



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 8 File: D:\XV-THG51\TX2403.328.EMI (12)
Level (dBuV/m)



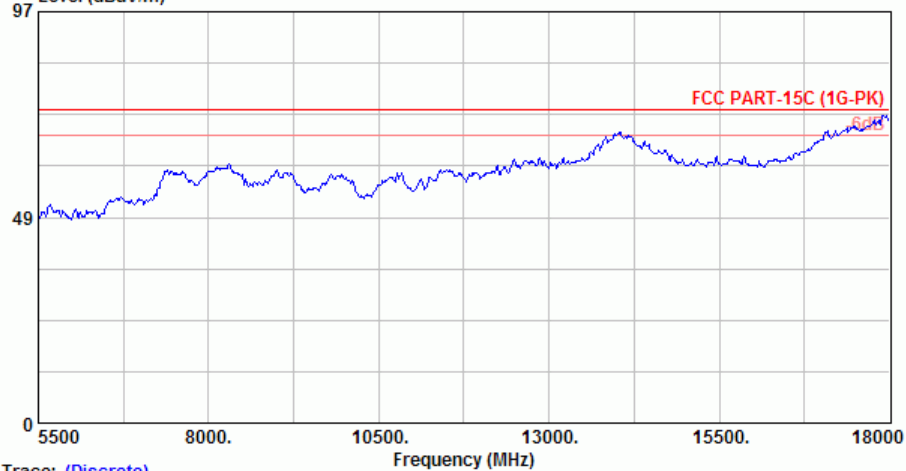
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 8
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 23°C/57%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328	



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 7 File: D:\XV-THG51\TX2403.328.EMI (12)
Level (dBuV/m)



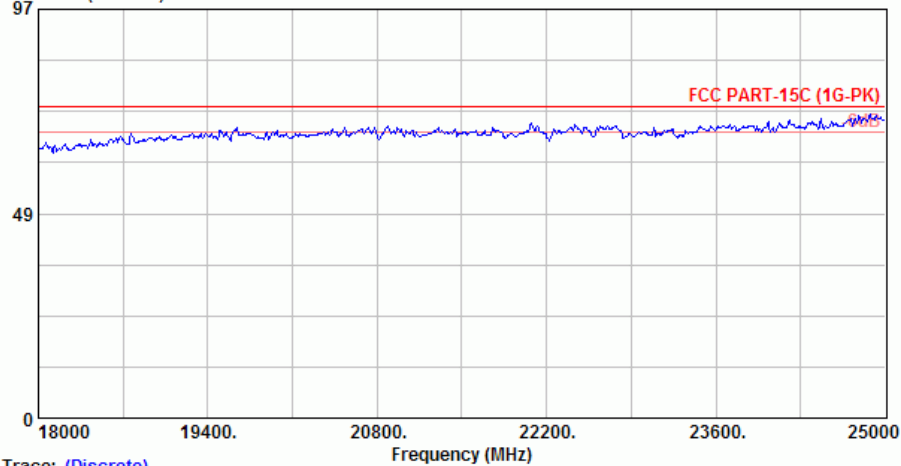
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 7
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 23°C/57%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328	



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 9 File: D:\XV-THG51\TX2403.328.EMI (12)
Level (dBuV/m)

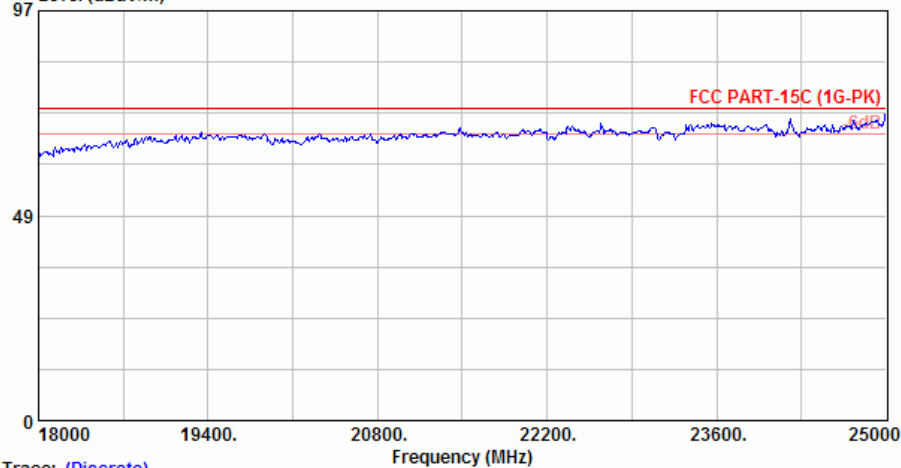


Site no. : site	Data no. : 9
Dis. / Ant. : 3m 3116	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 23°C/57%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328	



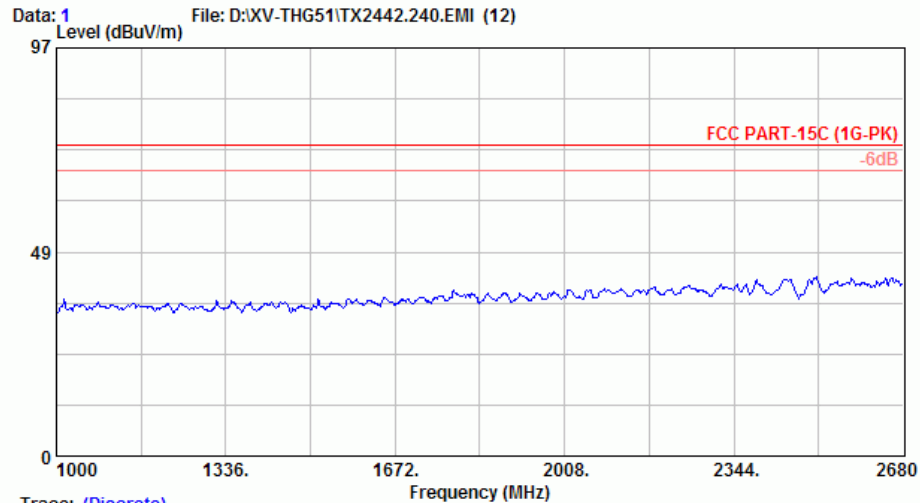
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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 10 File: D:\XV-THG51\TX2403.328.EMI (12)
Level (dBuV/m)



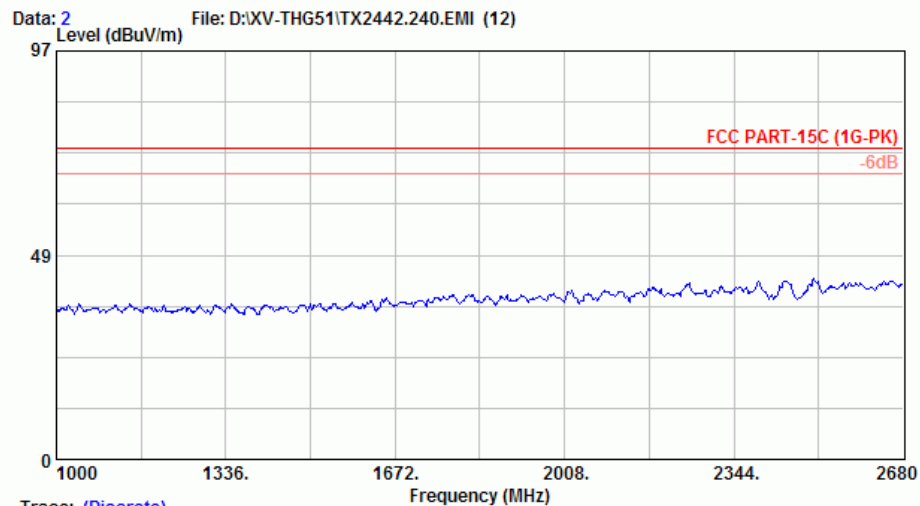
Site no. : site	Data no. : 10
Dis. / Ant. : 3m 3116	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 23°C/57%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328	

Date of Test : Mar. 26, 2009 Temperature : 23°C
EUT : Wireless DVD Receiver Humidity : 57%
Test Mode : Transmitting Mode, Test Voltage : AC 120V/60Hz
Frequency: 2442.240MHz (CH19)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/57%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N:XV-THG51		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2442.240		



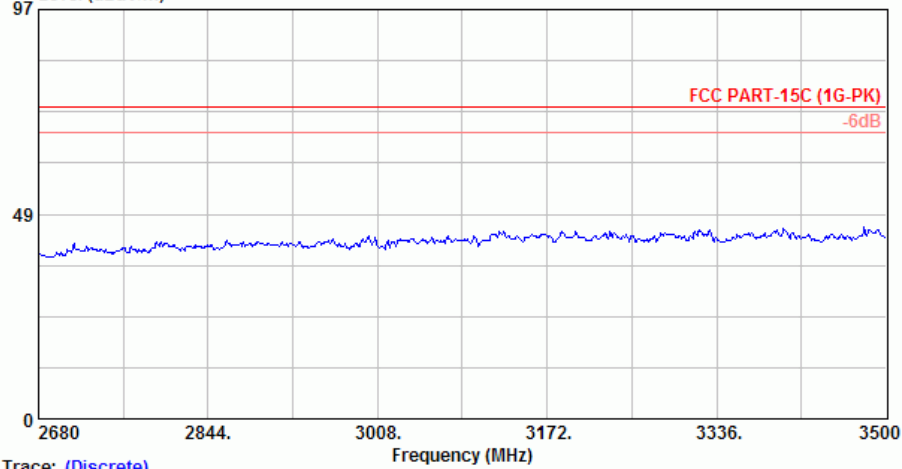
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/57%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N:XV-THG51		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2442.240		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 4 File: D:\XV-THG51\TX2442.240.EMI (12)
Level (dBUV/m)

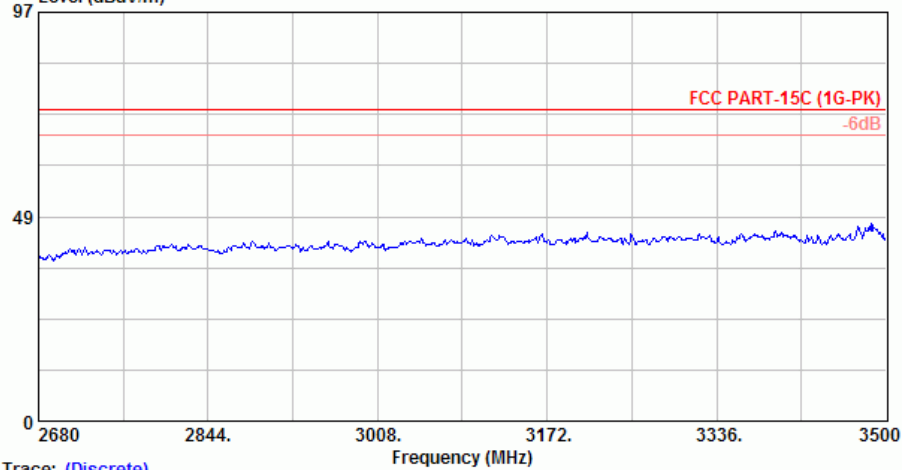


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 3 File: D:\XV-THG51\TX2442.240.EMI (12)
Level (dBUV/m)

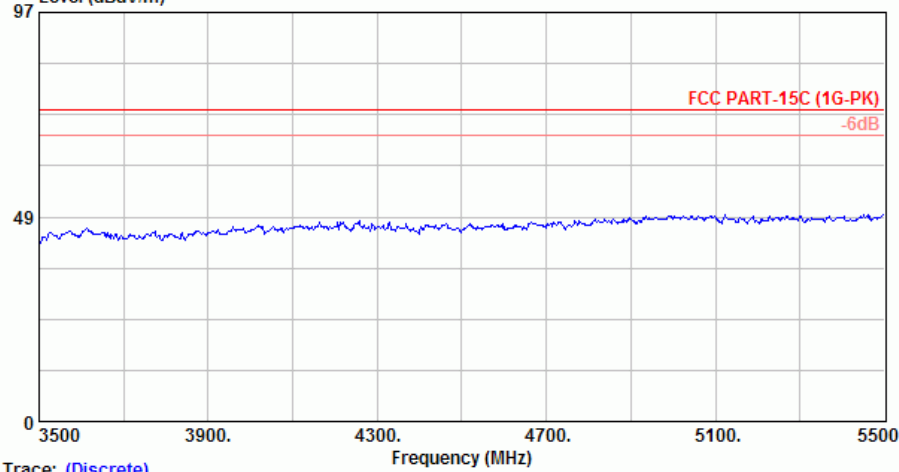


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 5 File: D:\XV-THG51\TX2442.240.EMI (12)
Level (dBuV/m)

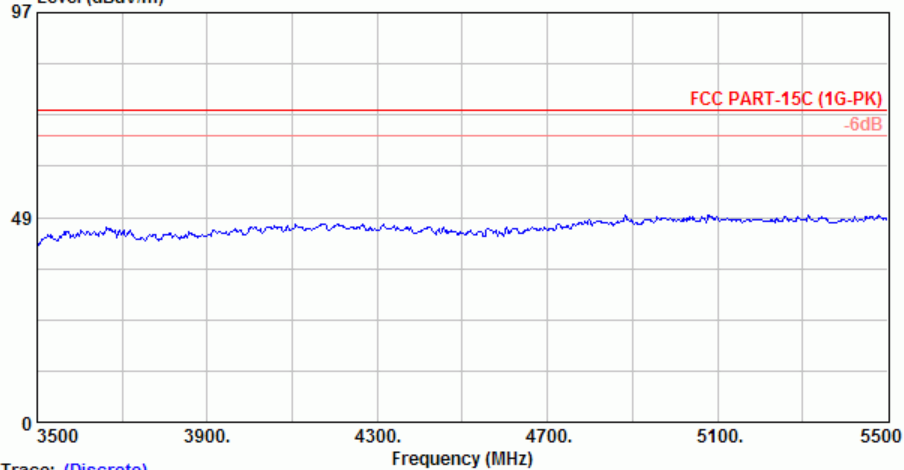


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 6 File: D:\XV-THG51\TX2442.240.EMI (12)
Level (dBuV/m)

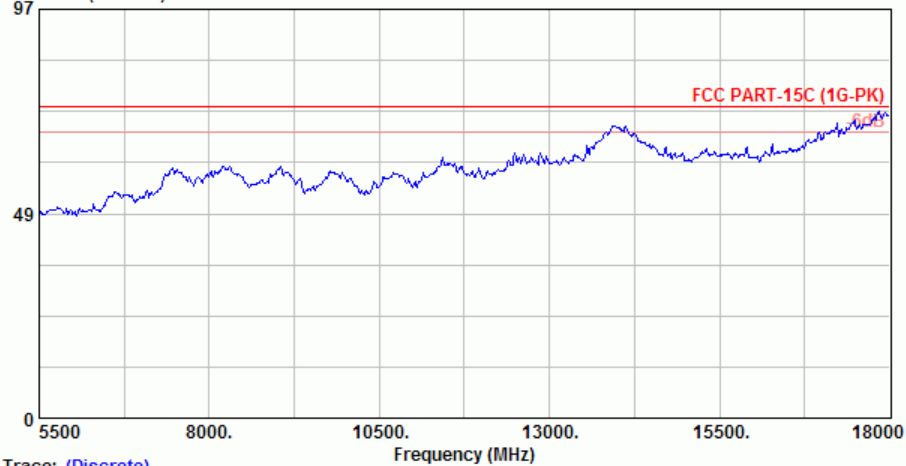


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 7 File: D:\XV-THG51\TX2442.240.EMI (12)
Level (dBuV/m)

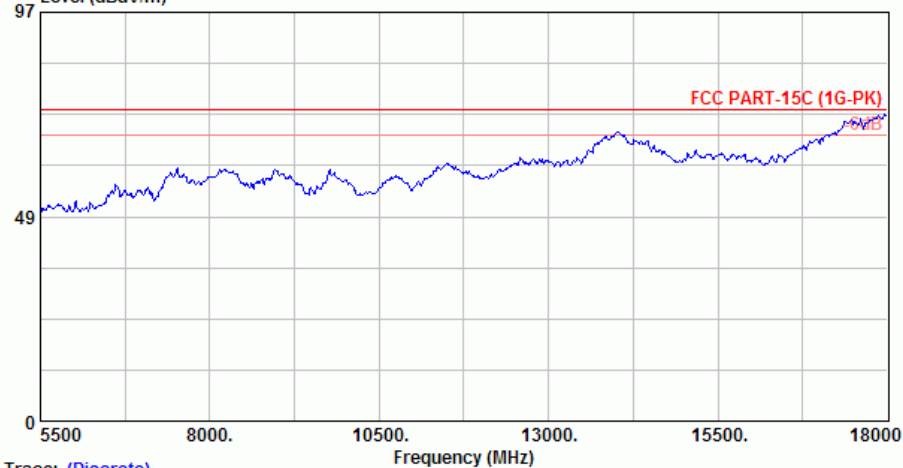


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 8 File: D:\XV-THG51\TX2442.240.EMI (12)
Level (dBuV/m)

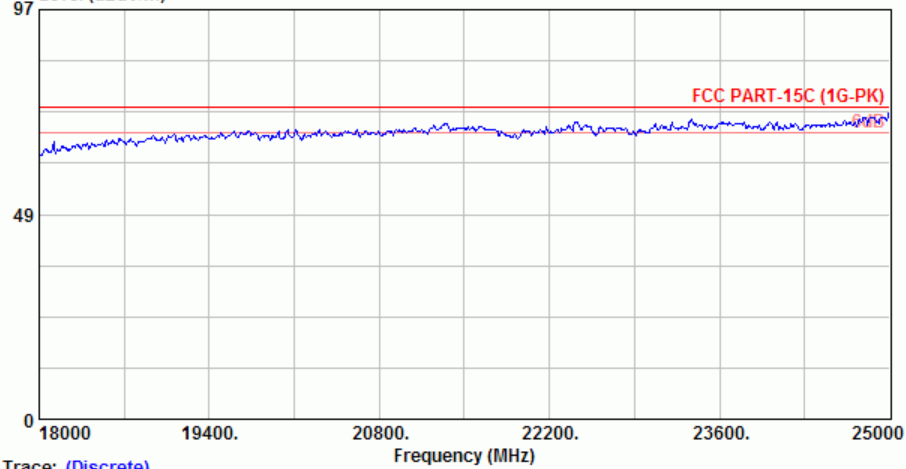


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 9 File: D:\XV-THG51\TX2442.240.EMI (12)
Level (dBuV/m)

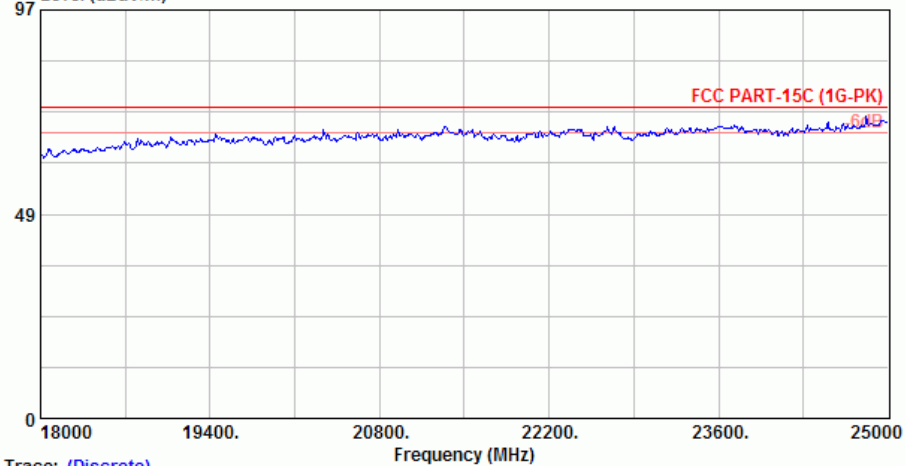


Trace: (Discrete)
Site no. : site Data no. : 9
Dis. / Ant. : 3m 3116 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240



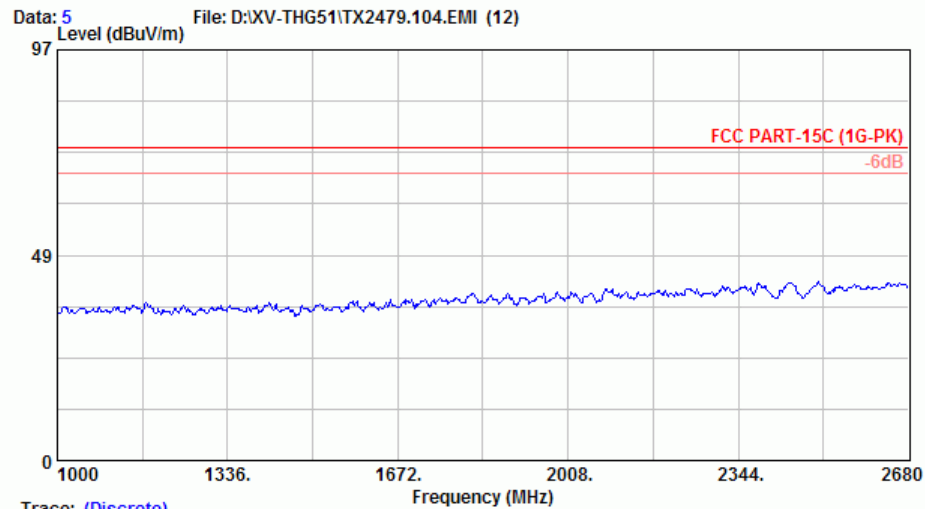
AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 10 File: D:\XV-THG51\TX2442.240.EMI (12)
Level (dBuV/m)

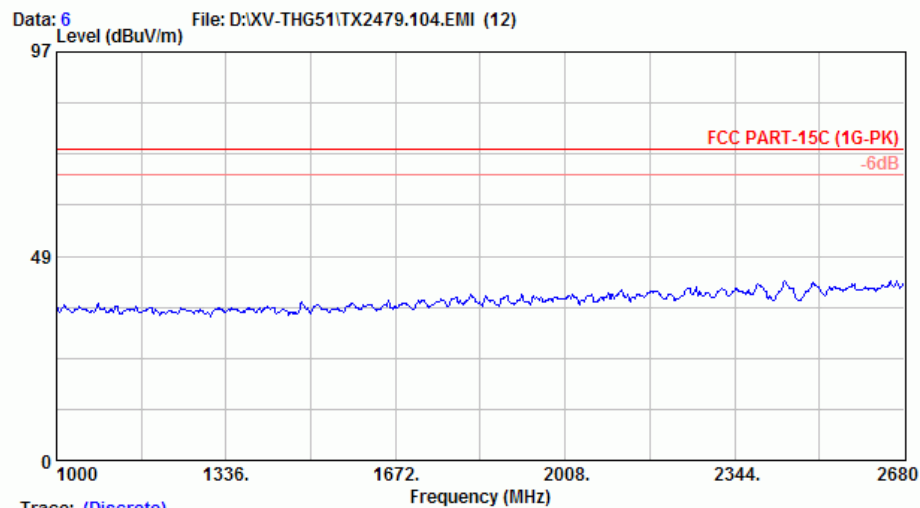


Trace: (Discrete)
Site no. : site Data no. : 10
Dis. / Ant. : 3m 3116 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240

Date of Test : Mar. 26, 2009 Temperature : 23°C
EUT : Wireless DVD Receiver Humidity : 57%
Test Mode : Transmitting Mode,
Frequency: 2479.104MHz (CH37) Test Voltage : AC 120V/60Hz



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104

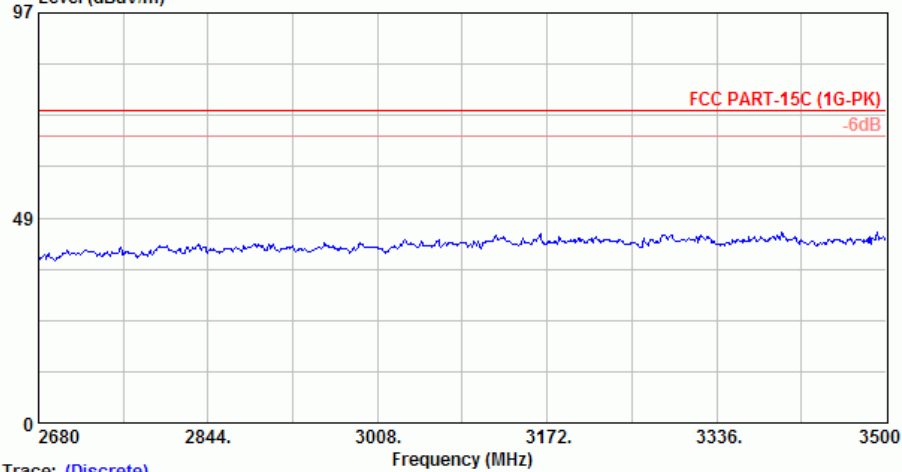


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 8 File: D:\XV-THG51\TX2479.104.EMI (12)
Level (dBUV/m)

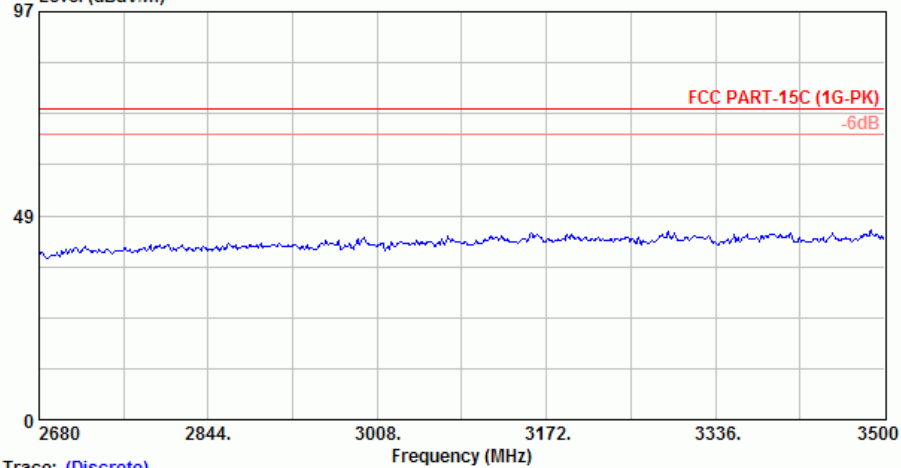


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 7 File: D:\XV-THG51\TX2479.104.EMI (12)
Level (dBUV/m)

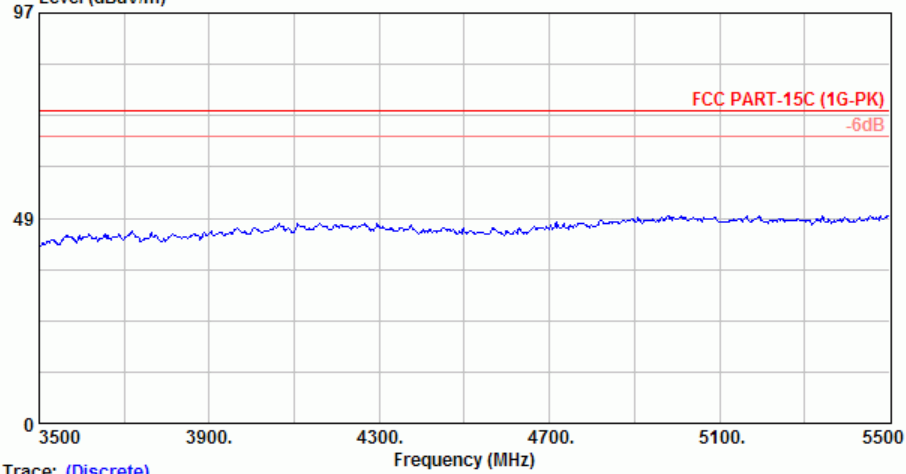


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 1 File: D:\XV-THG51\TX2479.104.EMI (12)
Level (dBuV/m)

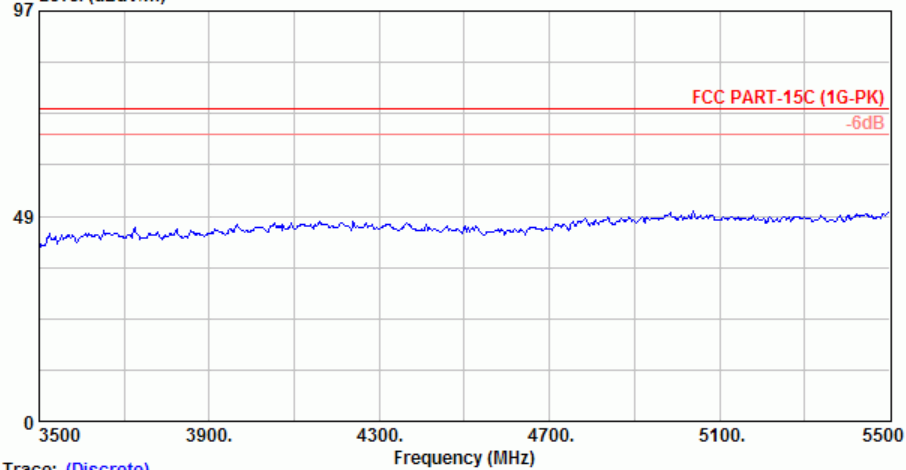


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 2 File: D:\XV-THG51\TX2479.104.EMI (12)
Level (dBuV/m)

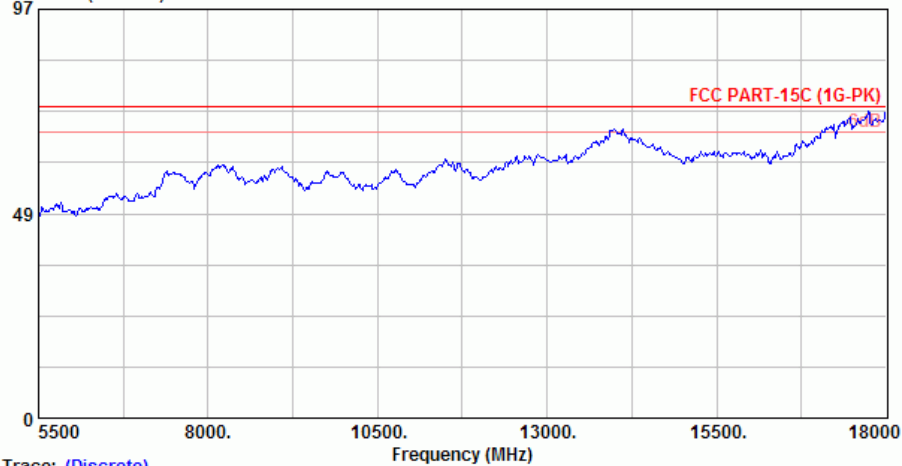


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 4 File: D:\XV-THG51\TX2479.104.EMI (12)
Level (dBuV/m)



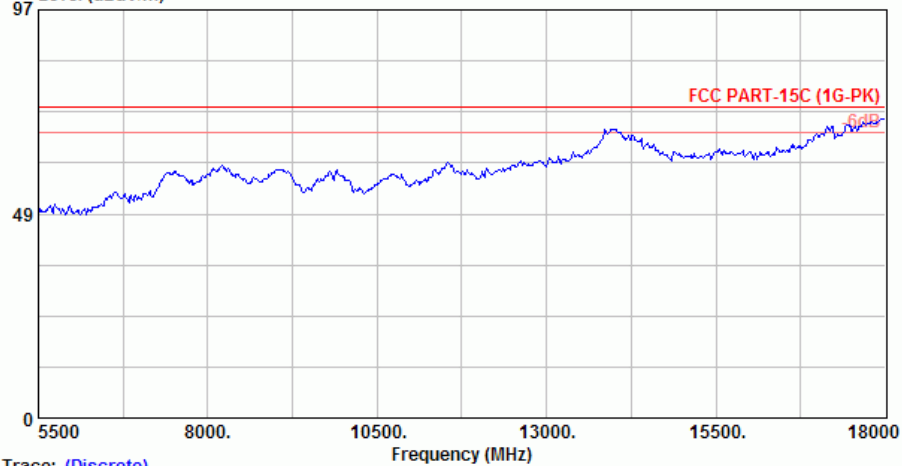
Trace: (Discrete)

Site no. :	A/C Chamber	Data no. :	4
Dis. / Ant. :	3m 3115	Ant. pol. :	HORIZONTAL
Limit :	FCC PART-15C (1G-PK)		
Env. / Ins. :	8564EC 23°C/57%	Engineer :	Jarwei Wang
EUT :	DVD Receiver M/N:XV-THG51		
Power Rating :	120Vac/60Hz		
Test Mode :	TX2479.104		



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 3 File: D:\XV-THG51\TX2479.104.EMI (12)
Level (dBuV/m)



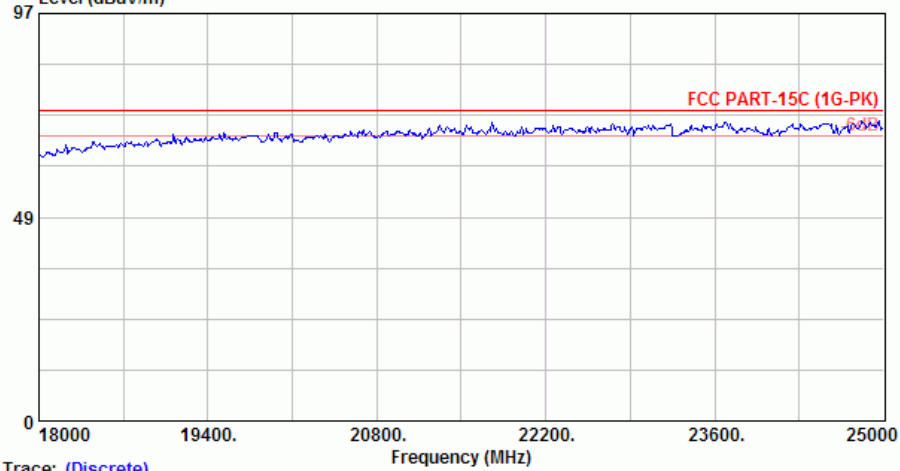
Trace: (Discrete)

Site no. :	A/C Chamber	Data no. :	3
Dis. / Ant. :	3m 3115	Ant. pol. :	VERTICAL
Limit :	FCC PART-15C (1G-PK)		
Env. / Ins. :	8564EC 23°C/57%	Engineer :	Jarwei Wang
EUT :	DVD Receiver M/N:XV-THG51		
Power Rating :	120Vac/60Hz		
Test Mode :	TX2479.104		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 10 File: D:\XV-THG51\TX2479.104.EMI (12)
Level (dBuV/m)

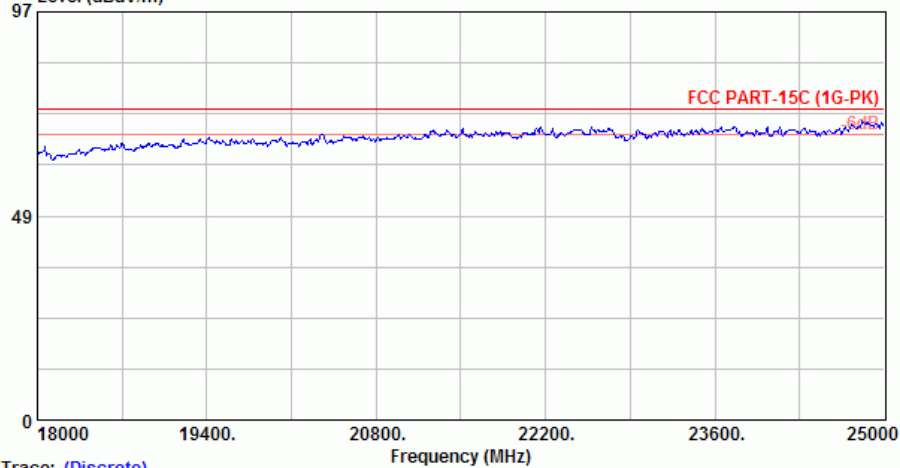


Trace: (Discrete)
Site no. : site Data no. : 10
Dis. / Ant. : 3m 3116 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 9 File: D:\XV-THG51\TX2479.104.EMI (12)
Level (dBuV/m)



Trace: (Discrete)
Site no. : site Data no. : 9
Dis. / Ant. : 3m 3116 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:XV-THG51
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104

3.6.3. Restricted Bands Measurement Results

Date of Test : Mar. 26, 2009 Temperature : 23°C

EUT : Wireless DVD Receiver Humidity : 57%

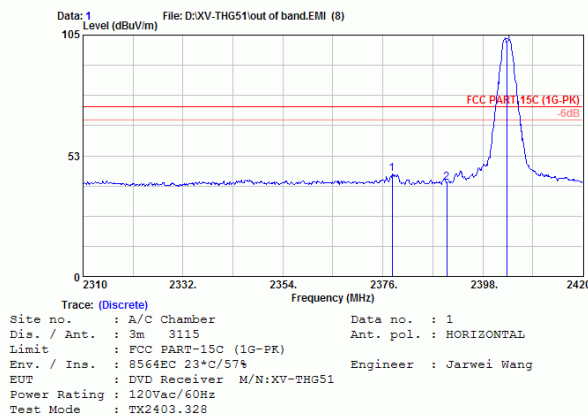
Test Mode : Transmitting Mode,
Frequency: 2403.328MHz (CH0) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Peak *	2378.090	28.58	5.18	10.83	44.59	74.00	29.41
Average *	2378.640	28.58	5.18	-4.50	29.26	54.00	24.74

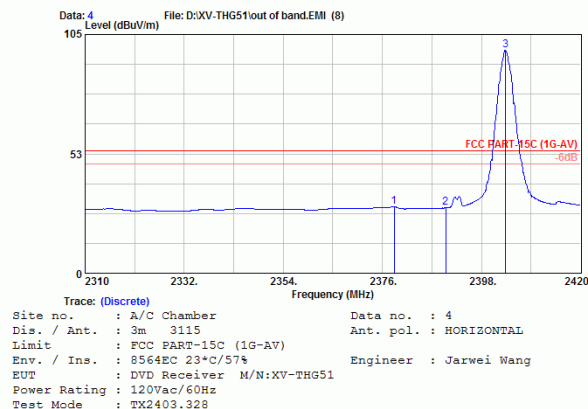
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2420MHz).
 3. “*” The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Date of Test : Mar. 26, 2009 Temperature : 23°C

EUT : Wireless DVD Receiver Humidity : 57%

Test Mode : Transmitting Mode,
Frequency: 2403.328MHz (CH0) Test Voltage : AC 120V/60Hz

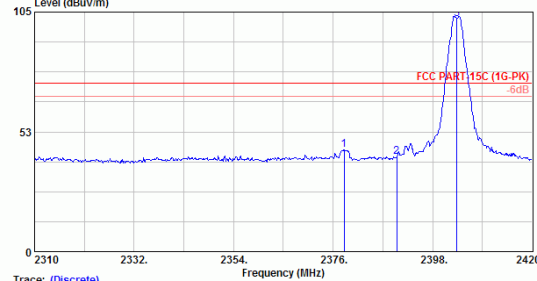
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Peak *	2378.420	28.58	5.18	10.81	44.57	74.00	29.43
Average *	2378.420	28.58	5.18	-4.31	29.45	54.00	24.55

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2420MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw

Data: 2 File: D:\XV-THG51\out of band.EMI (8)

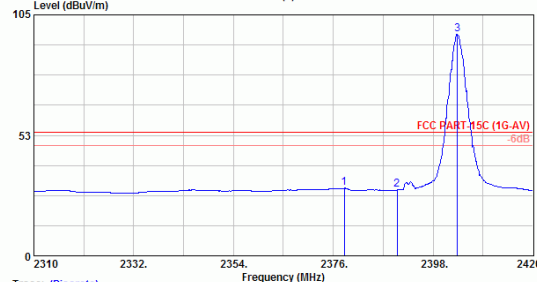


Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:XV-THG51
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw

Data: 3 File: D:\XV-THG51\out of band.EMI (8)



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:XV-THG51
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328

Date of Test : Mar. 26, 2009 Temperature : 23°C

EUT : Wireless DVD Receiver Humidity : 57%

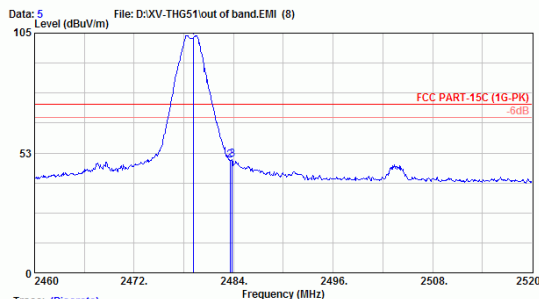
Test Mode : Transmitting Mode Test Voltage : AC 120V/60Hz
Frequency: 2479.104MHz (CH37)

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak *	2483.820	28.77	5.23	15.58	49.58	74.00	24.42
Average *	2483.580	28.77	5.23	6.52	40.52	54.00	13.48

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2460-2520MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



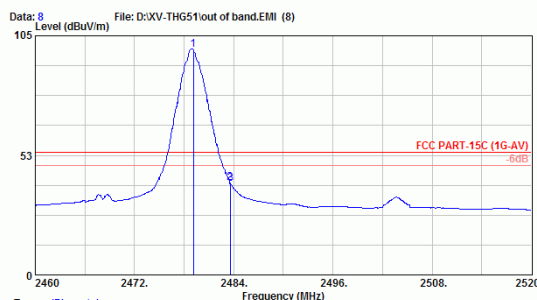
AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:XV-THG51
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104



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 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:XV-THG51
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104

Date of Test : Mar. 26, 2009 Temperature : 23°C

EUT : Wireless DVD Receiver Humidity : 57%

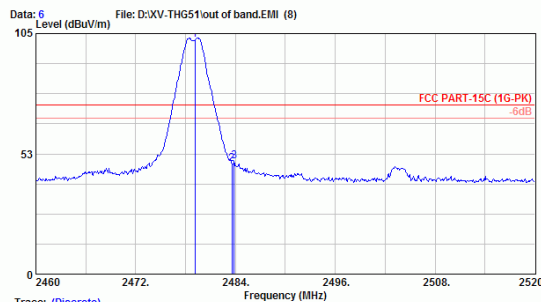
Test Mode : Transmitting Mode,
Frequency: 2479.104MHz (CH37) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak *	2483.820	28.77	5.23	15.14	49.14	74.00	24.86
Average *	2483.580	28.77	5.23	6.04	40.04	54.00	13.96

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2460-2520MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 6

Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-PK)

Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang

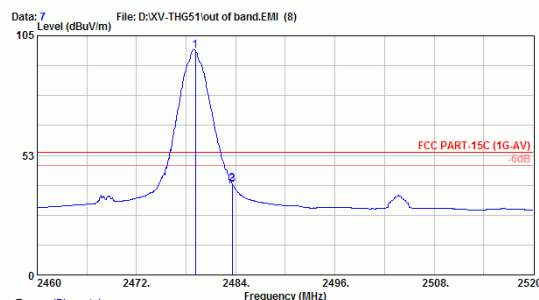
EUT : DVD Receiver M/N:XV-THG51

Power Rating : 120Vac/60Hz

Test Mode : TX2479.104



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 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7

Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 23°C/57% Engineer : Jarwei Wang

EUT : DVD Receiver M/N:XV-THG51

Power Rating : 120Vac/60Hz

Test Mode : TX2479.104

4. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00005406	Feb. 19, 09'	Feb. 18, 10'
2.	Power Sensor	Anritsu	MA2491A	030873	Feb. 19, 09'	Feb. 18, 10'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(b)-(1))

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 0.125Watt. (21dBm)

4.4. Operating Condition of EUT

- 4.4.1. Set up the EUT and simulator as shown on 4.2.
- 4.4.2. To turn on the power of all equipment.
- 4.4.3. EUT (Wireless DVD Receiver) was on transmitting frequency function during the testing.

4.5. Test Procedure (DA 00-705)

The transmitter output was connected to the power sensor and record the reading of power meter.

4.6. Test Results

PASSED. All the test results are listed below.

Test Date : Mar. 26, 2009 Temperature : 23 °C Humidity : 57 %

No.	Channel	Test Frequency	Peak Output Power	Limit
1.	0	2403.328MHz	13.45dBm	21dBm
2.	19	2442.240MHz	13.56dBm	21dBm
3.	37	2479.104MHz	13.82dBm	21dBm

5. DEVIATION TO TEST SPECIFICATIONS

【NONE】