

Nemko Korea CO., Ltd.

300-2, Osan-Ri, Mohyun-Myun, Yongin-City, Kyungki-Do, KOREA

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FCC EVALUATION REPORT FOR CERTIFICATION

Manufacture :

Digitra Systems, Inc.

8-61, Galwol-Dong, Yongsan-Ku, Seoul, Korea

Attn : Mr. J. H. Kong

Dates of Issue : December 27, 2000

Test Report No. : NK2AE395

Test Site : Nemko Korea Co., Ltd.

EMC site, Korea

FCC ID

O6CPVA-100T

Brand Name

Digitra Xenia

APPLICANT

8-61, Galwol-Dong, Yongsan-Ku, Seoul, Korea

Mr. J. H. Kong

Telephone No. : +82 2 778 0025

FCC Rule Part(s):

Part 15 & 2

Classification :

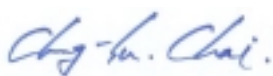
FCC Class B Device

EUT Type:

Digital TV PCI Board

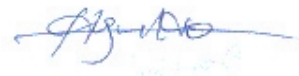
The device bearing the trade name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-1992.

I attest to the accuracy of data and all measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



Tested By : C. S. Choi

Engineer



Reviewed By : H.H. Kim

Manager & Chief Engineer

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SCOPE

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC part 15 verification.

Responsible Party* :	Digitra Systems Inc.
Contact Person :	Mr. J. H. Kong
	Tel No.: +82 2 778 0025
Manufacturer :	Digitra Systems Inc.
	8-61, Galwol-Dong, Yongsan-Ku, Seoul, Korea
	Tel No.: +82 2 778 0025

- FCC ID: O6CPVA-100T
- Model: PVA-100T
- Brand Name: Digitra Systems Xenia
- EUT Type: Digital TV PCI Board
- Port/Connector: NTSC/CATV Input, ATSC/VSF Input
VGA Loop-Back Input, VGA/RGB-HV Output
- Antenna
Input Impedance: 75ohm unbalanced
- Classification: FCC Class B
- Rule Part(s): FCC Part 15 & Part 2
- Test Procedure(s): ANSI C63.4 (1992)
- Dates of Test: December 14, 2000
- Place of Tests: Nemko Korea Co., Ltd. EMC Site
- Test Report No.: NK2AE395

* NOTE: Please refer to the duties and responsibilities of the Responsible Party attached.

INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-1992) was used in determining radiated and conducted emissions emanating from **Digitra Systems Inc.**

FCC ID: **O6CPVA-100T**, Digital TV PCI Board

These measurement tests were conducted at **Nemko Korea Co., Ltd. EMC Laboratory**.

The site address is 300-2, Osan-Ri, Mohyun-Myun, Yongin-City, Kyungki-Do, KOREA

The area of Nemko Korea Corporation LTD. EMC Test Site is located in a mountain area at 50 kilometers (30 miles) southeast and Seoul International Airport (Kimpo Airport), 30 kilometers (18 miles) south-southeast from central Seoul.

It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures.

The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.



Nemko Korea Co., Ltd.
 OPEN AREA TEST SITE
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Fig. 1. The map above shows the Seoul in Korea vicinity area.

The map also shows Nemko Korea Corporation Ltd. EMC Lab and Kimpo Airport.

TEST CONDITIONS & EUT INFORMATION

Operating During Test

The EUT was connected to PC and the monitor was displayed "H" pattern on the screen. And the EUT was set to video resolution 1280*1024(worst case).

Support Equipment

PC	Trigem, Model: etower700irx 1.8m unshielded AC power cord	S/N: N/A
Monitor	Hansol, Model: E19AL 1.8m unshielded AC power cord 1.5m shielded D-sub cable	S/N: N/A
Keyboard	GMAX, FCC ID: GOGDLK812 1.4m shield Din cable	S/N: K981260518
PS/2 Mouse	Logitech, FCC ID: DZL211153 2.0m shield Din cable	S/N: LZA75395360
Serial Mouse	Whale mouse, FCC ID: MA7WSV3-A 1.5m Shield, D-sub cable	S/N: B050402
Printer	HP, Model No: Deskjet 970cxi 1.8m unshielded AC power cord 1.2m Shield USB cable	S/N: MY9C6116DQ

EUT INFORMATION

ITEMS		Product Specification	
System Capacity	STANDARD	ATSC	
Tuner	Input frequency range	50 ~ 860 MHz	
	Input impedance	75 ohm	
	ATSC input connector	IEC169-24	
	NTSC input connector	IEC169-24	
Demodulator	Demodulation	VSB	
	Symbol rate	10.76 Msymbol/s	
	Payload data rate	19.39 Mbps	
	FEC coding	Reed-solomon, t=10(207,208)	
Demultiplexing	Standard	ISO13818-1	
Memory Capacity	SDRAM	16 Mbytes	
Video Decoding	Standard	ISO13818-2	
	Compression	MP@HL	
	Frame rate	24Hz/30Hz/60Hz	
	Aspect ratio	4:3 / 16:9	
	format	1080I/ 760P/480I/480P	
Audio Decoding	Standard	Dolby digital AC3	
	Sound mode	Stereo	
	Decoder	Software	
Display Format	VGA output format	1280x1024,1024x768,800x600,640x480	
	Graphics sub-system	VIP1.1	
	VIDEO output signal	RGB/YPbPr	
Connector	VGA loop-back input	9 Pin Mini-Din	
	VIDEO output	15 Pin D-sub	
Chipset(s)	VPX 32250-PQ-C3, KM432S2030CT-G8		
Clock	13.50MHz, 20.25MHz, 24.576MHz, 49.38MHz		

DESCRIPTION OF TESTS

Conducted Emissions

The Line conducted emission test facility is located inside a 4 X 7 X 2.5 meter shielded enclosure.

It is manufactured by EM engineering. The shielding effectiveness of the shielded room is in accordance with MIL-STD-285 or NSA 65-6.

A 1mX 1.5M wooden table 0.8m height is placed 0.4m away from the vertical wall and 1.5m away from the side of wall of the shielded room

Rohde & Schwarz LISN and PMM LISN L3-32 50ohm/50uH line impedance stabilization network are bonded to the shielded room.

The EUT is powered from the Rohde & Schwarz LISN and the support equipment is powered from the PMM LISN. Power to the LISN s are filtered by high-current high insertion loss Power line filters. The purpose of filter is to attenuate ambient signal interference and this filter is also bonded to shielded enclosure. All electrical cables are shielded by tinned copper zipper tubing with inner diameter of 1/2".

If DC power device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the LISNs,

All interconnecting cables more than 1 meter were shortened by non inductive bundling (serpentine fashion) to a 1 meter length.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 450KHz to 30MHz with 20msec sweep time.

The frequency producing the maximum level was re-examined using the EMI test receiver. (Rohde & Schwarz ESCS30).

The detector function was set to CISPR quasi-peak mode.

The bandwidth of receiver was set to 9KHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.

Each emission was maximized by; switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and of support equipment, and powering the monitor from the floor mounted outlet box and computer aux AC outlet, if applicable; which ever determined the worst case emission.

Each EME reported was calibrated using the R&S signal generator.

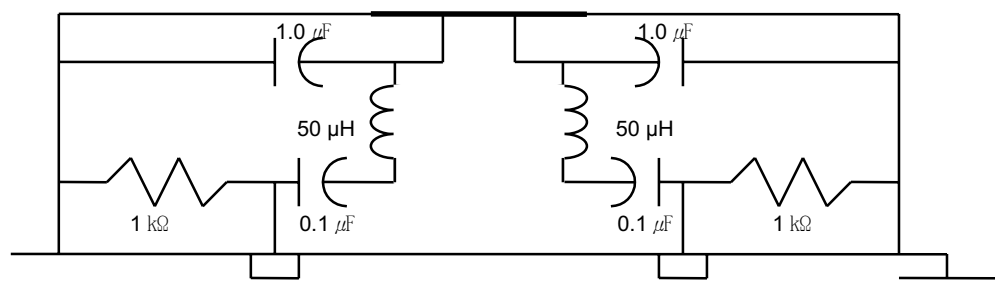


Fig. 2. LISN Schematic Diagram

DESCRIPTION OF TESTS

Radiated Emissions

Preliminary measurement were made indoors at 1 meter using broad band antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The Technology configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna was note for each frequency found.

The spectrum was scanned from 30 to 1000MHz using Biconical log Antenna(ARA, LPB-2520/A). Above 1GHz, log periodic antenna (Rohde Schwarz HL025:upto 18GHz) was used.

Final Measurements were made outdoors at 3 or 10m test range using Logbicon Super Antenna(Schwarzbeck, VULB9166) or log periodic antenna.(Rohde Schwarz HL025)

The test equipment was placed on a wooden table.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

Each frequency found during pre-scan measurements was reexamined and investigated using EMI test receiver.(ESCS30)

The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120KHz or 1MHz depending on the frequency or type of signal.

The half wave dipole antenna was tuned to the frequency found during preliminary radiated measurements.

The EUT support equipment and interconnecting cables were re configured to the setup producing the maximum emission for the frequency and were placed on top of a 0.8m high non- metallic 1.0X 1.5 meter table.

The EUT, support equipment and interconnecting cables were re-arranged and manipulated to maximize each EME emission.

The turn table containing the Technology was rotated; the antenna height was varied 1 to 4meter and stopped at the azimuth or height producing the maximum emission Each emission was maximized by : switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and of support equipment, and powering the monitor from the floor mounted outlet box and computer aux AC outlet, if applicable; which ever determined the worst case emission.

Each EME reported was calibrated using the R/S signal generator.

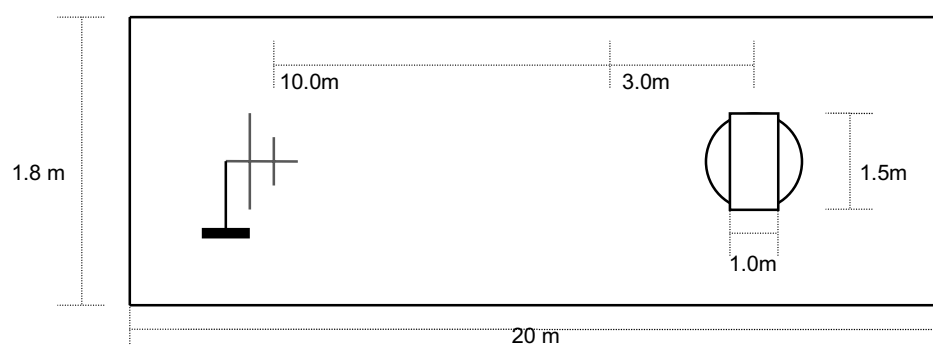


Fig. 3. Dimensions of Outdoor Test Site

DESCRIPTION OF TESTS

Antenna-Conducted Power Measurements

Power on the receive antenna terminals was to be determined by measurement of the voltage present at these terminals.

Antenna –conducted power measurements was performed with the EUT antenna terminals connected directly to measuring instrument (Rohde&Schwarz, ESCS 30) using a impedance-matching network(Rohde&Schwarz, RAM358.5414.02) to connect the measurement instrument to the antenna terminals of the EUT. Losses in decibels in impedance-matching network used was added to the measured values in dBuV.

With the receiver tuned to one of the number of frequency and voltage present at the antenna input terminals over the frequency range specified in the individual equipment requirements.

The measurements was repeated with the receiver tuned to another frequency until the number of frequencies had been successively measured.

Power on the receive antenna terminals in the ratio of V^2/R , where V is the loss-corrected voltage measured at the antenna terminals, and R is the impedance of the measuring instrument.

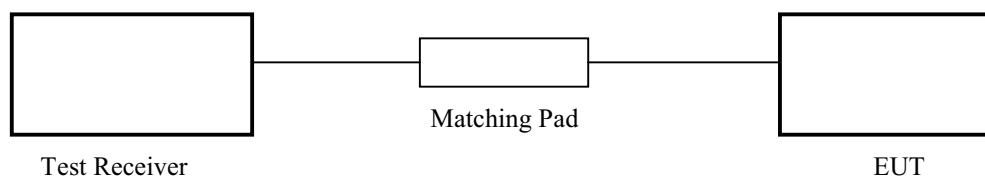


Fig. 4. Description of Test

TEST DATA

Conducted Emissions

FCC ID : O6CPVA-100T

Test Mode : Display "H" pattern on the screen

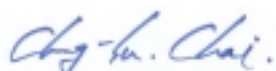
FREQ (MHz)	LEVEL(dB μ V)	LINE	LIMIT(μ V)	(μ V)	MARGIN*(dB)
0.50	31.4	L	250	37.15	16.6
0.80	31.1	N	250	35.89	16.9
7.85	31.0	L	250	35.48	17.0
19.02	33.6	N	250	47.86	14.4
22.39	33.0	L	250	44.67	15.0
25.73	33.5	N	250	47.32	14.5

Table 1. Line Conducted Emissions Tabulated Data

NOTES:

1. All modes of operation were investigated and the worst -case emission are reported. See attached Plots.
2. The limit for Class B device is 250 μ V from 450 kHz to 30MHz.
3. Line H = Hot Line N = Neutral

* Measurements using CISPR quasi-peak mode



Tested by C. S. Choi

TEST DATA

Radiated Emissions

FCC ID : O6CPVA-100T

Test Mode : TV Receiving Mode

Frequency (MHz)	Reading (dB μ V)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
199.99	52.1	H	-13.7	38.4	43.5	5.1
600.07	39.9	H	-3.6	36.3	46.0	9.7
669.74	43.9	H	-1.7	42.2	46.0	3.8
700.09	37.3	H	-0.9	36.4	46.0	9.6
720.03	34.7	H	-0.4	34.3	46.0	11.7
800.10	35.2	H	1.6	36.8	46.0	9.2

Table 2. Radiated Measurements at 3meters

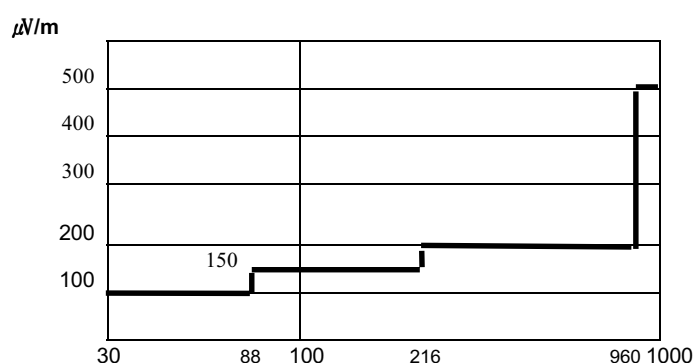


Fig. 5. Limits at 3 meters

NOTES:

1. All modes of operation were investigated the worst-case emission are reported.
2. The radiated limits are shown on Figure 4.

Above 1GHz the limit is 500 μ V/m.

* Pol. H=Horizontal V=Vertical

** AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.

*** Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

Tested by C. S. Choi

TEST DATA**Antenna-Conducted Power Measurements****FCC ID : O6CPVA-100T****Test Mode : TV Receiving Mode**

CHNNEL	Frequency (MHz)	Reading (dB μ V)	MPL ** (dB)	Result (dB μ V)	Limit		Margin (dB)
					(nW)	(dB μ W)	
2	101.00	9.5	7.8	17.3	2.0	50.0	32.7
	202.00	-	7.8	-	2.0	50.0	-
3	107.00	14.3	7.8	22.1	2.0	50.0	27.9
	214.00	11.7	7.8	19.5	2.0	50.0	30.5
4	113.00	16.4	7.8	24.2	2.0	50.0	25.8
	226.00	-	7.8	-	2.0	50.0	-
5	123.00	19.1	7.8	26.9	2.0	50.0	23.1
	246.00	12.7	7.8	20.5	2.0	50.0	29.5
6	129.00	20.7	7.8	28.5	2.0	50.0	21.5
	258.00	-	7.8	-	2.0	50.0	-
7	221.00	15.1	7.8	22.9	2.0	50.0	27.1
	442.00	-	7.8	-	2.0	50.0	-
8	227.00	15.1	7.8	22.9	2.0	50.0	27.1
	454.00	8.3	7.8	16.1	2.0	50.0	33.9
9	233.00	15.4	7.8	23.2	2.0	50.0	26.8
	466.00	8.6	7.8	16.4	2.0	50.0	33.6
10	239.00	17.1	7.8	24.9	2.0	50.0	25.1
	478.00	9.0	7.8	16.8	2.0	50.0	33.2
11	245.00	12.5	7.8	20.3	2.0	50.0	29.7
	490.00	9.8	7.8	17.6	2.0	50.0	32.4
12	251.00	9.7	7.8	17.5	2.0	50.0	32.5
	502.00	12.3	7.8	20.1	2.0	50.0	29.9
13	257.00	10.1	7.8	17.9	2.0	50.0	32.1
	514.00	14.0	7.8	21.8	2.0	50.0	28.2
14	517.00	12.4	7.8	20.2	2.0	50.0	29.8
	1034.00	18.2	7.8	26.0	2.0	50.0	24.0
19	547.00	-	7.8	-	2.0	50.0	-
	1094.00	20.7	7.8	28.5	2.0	50.0	21.5
28	601.00	11.9	7.8	19.7	2.0	50.0	30.3
	1202.00	23.8	7.8	31.6	2.0	50.0	18.4
36	649.00	15.2	7.8	23.0	2.0	50.0	27.0
	1298.00	21.9	7.8	29.7	2.0	50.0	20.3
44	697.00	17.2	7.8	25.0	2.0	50.0	25.0
	1394.00	16.1	7.8	23.9	2.0	50.0	26.1
53	751.00	18.1	7.8	25.9	2.0	50.0	24.1
	1502.00	12.0	7.8	19.8	2.0	50.0	30.2
61	799.00	21.0	7.8	28.8	2.0	50.0	21.2
	1598.00	13.3	7.8	21.1	2.0	50.0	28.9
69	847.00	20.3	7.8	28.1	2.0	50.0	21.9
	1694.00	15.8	7.8	23.6	2.0	50.0	26.4

Table 3. Antenna-Conducted Power Measurements

- * **MPL = Impedance Matching Network Loss**
- ** **Measurements using CISPR quasi-peak mode. The limits is 2.0 nanowatts from 30MHz to 960MHz.**



Tested by **C. S. Choi**

PLOTS OF EMISSIONS

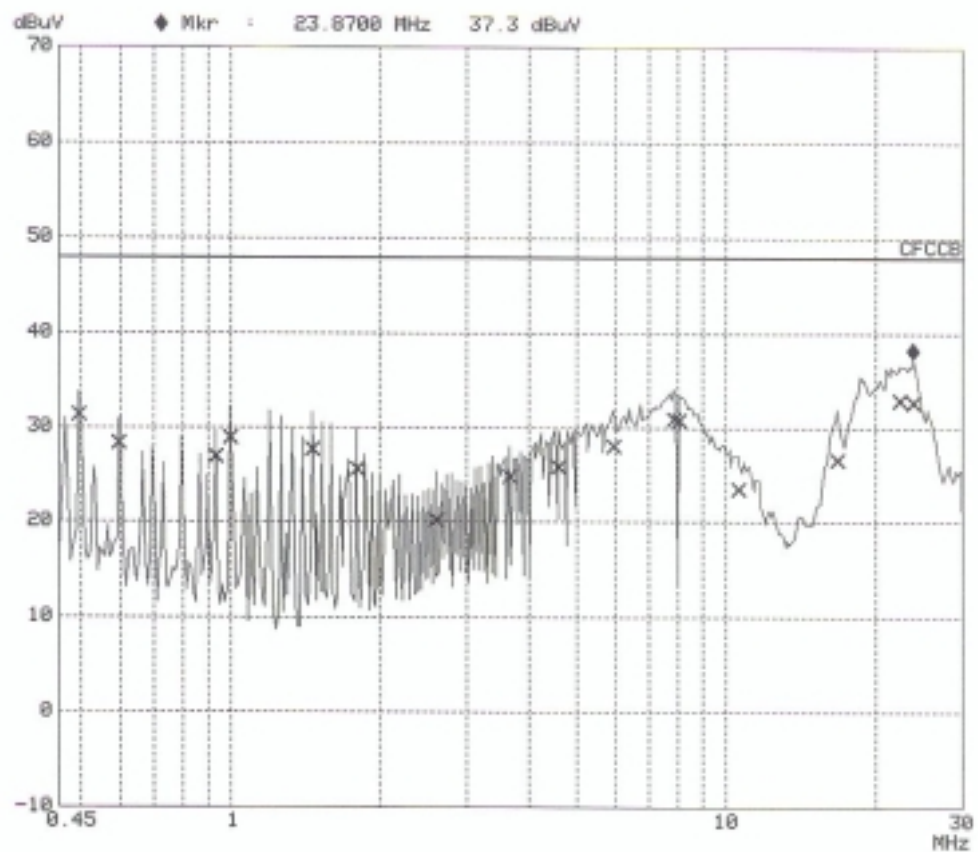
- Conducted Emission at the Mains port(Line)

```

Scan Settings (1 Range)
|----- Frequencies -----| |----- Receiver Settings -----|
  Start      Stop      Step      IF BW  Detector  M-Time  Atten  Preamp
  450k       30M       5k       9k    PK      20ms   10dB  OFF

Transducer No. Start      Stop      Name
               1  150k     30M       cen22

Final Measurement: x QP
                   Meas Time: 20 ms
                   Subranges: 16
                   Acc Margin: 50dB
  
```



PLOTS OF EMISSIONS

- Conducted Emission at the Mains port(Neutral)

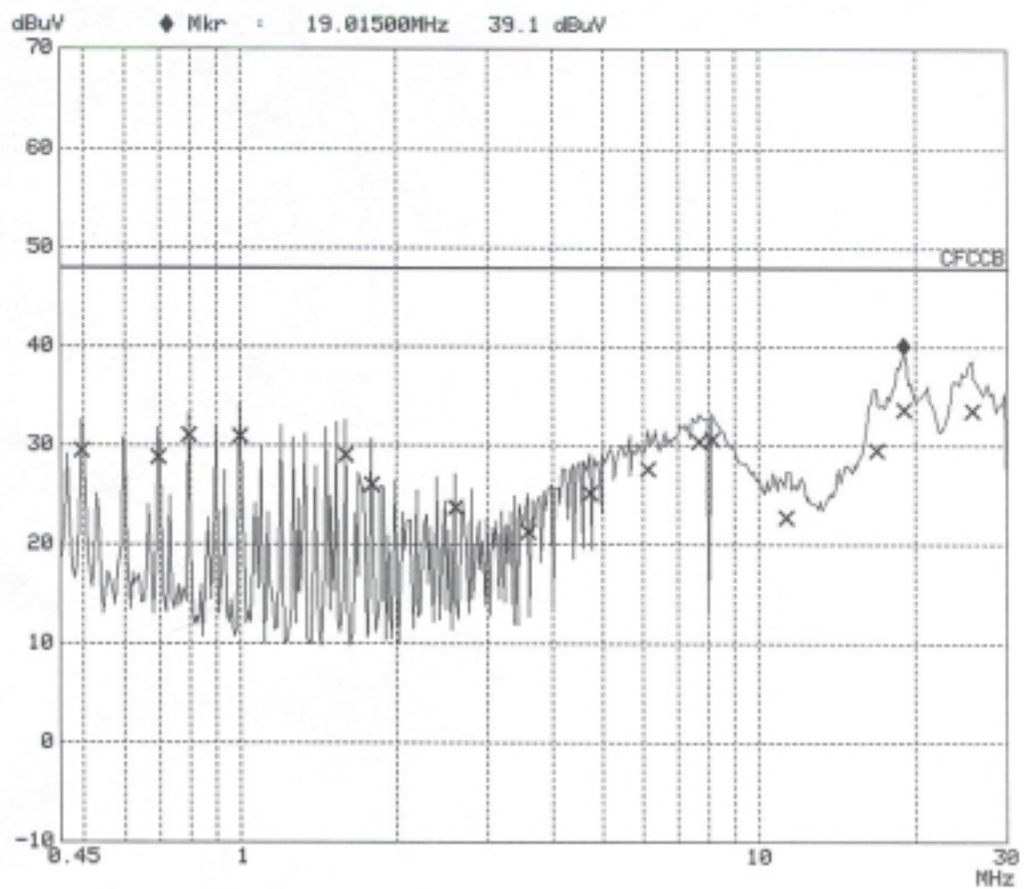
Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
450k	30M	5k	9k	PK	20ms	10dBLN	OFF

Transducer No.	Start	Stop	Name
1	150k	30M	cen22

Final Measurement: x QP

Meas Time: 20 ms
Subranges: 16
Acc Margin: 50dB



SAMPLE CALCULATIONS

$$\text{dB } \mu\text{V} = 20 \log_{10} (\mu\text{V}/\text{m})$$

$$\mu\text{V} = 10^{(\text{dB } \mu\text{V}/20)}$$

EX. 1.

@20.3 MHz

Class B limit = 250 μV = 48.0 dB μV

Reading = 40.8 dB μV (calibrated level)

$$10^{(40.8/20)} = 109.64 \mu\text{V}$$

$$\text{Margin} = 48.0 - 40.8 = 7.2$$

7.2 dB below limit

EX. 2.

@57.7 MHz

Class B limit = 100 $\mu\text{V}/\text{m}$ = 40.0 dB $\mu\text{V}/\text{m}$

Reading = 19.1 dB μV (calibrated level)

Antenna factor + Cable Loss = 10.12 dB

Total = 29.22 dB $\mu\text{V}/\text{m}$

$$\text{Margin} = 40.0 - 29.22 = 10.78$$

10.78 dB below the limit

EX. 3.

@98.20 MHz

Class B limit = 2 nW = 50.0 dB μV

Reading = 19.1 dB μV (calibrated level)

Impedance matching Network Loss = 7.5 dB

Total = 26.6 dB μV

$$\text{Margin} = 50.0 - 26.6 = 23.4$$

23.4 dB below the limit

ACCURACY OF MEASUREMENT

The Measurement Uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 with the confidence level of 95%

1. Radiation Uncertainty Calculation

<i>Contribution</i>	<i>Probability Distribution</i>	<i>Uncertainty(+/-dB)</i>
Antenna Factor	Normal (k=2)	± 0.5
Cable Loss	Normal (k=2)	± 0.04
Receiver Specification	Rectangular	± 2.0
Antenna directivity	Rectangular	± 1.0
Antenna Factor variation with Height		
Antenna Phase Center Variation		
Antenna Factor Frequency Interpolation		
Measurement Distance Variation		
Site Imperfections	Rectangular	± 2.0
Mismatch:Receiver VRC $r_i=0.3$ Antenna VRC $r_R=0.1(B_i)0.4(L_p)$ Uncertainty Limits $20\log(1+/-r_i r_R)$	U-Shaped	$+ 0.25 / - 0.26$
System Repeatability	Std.deviation	± 0.05
Repeatability of EUT	-	-
Combined Standard Uncertainty	Normal	± 1.77
Expanded Uncertainty U	Normal (k=2)	± 3.5

2. Conducted Uncertainty Calculation

<i>Contribution</i>	<i>Probability Distribution</i>	<i>Uncertainty(+/-dB)</i>
Receiver Specification	Normal (k=2)	± 2.0
LISN coupling spec.	Normal (k=2)	± 0.4
Cable and input attenuator cal.	Rectangular	± 0.4
Mismatch:Receiver VRC $r_i=0.3$ LISN vrc $r_g=0.1$ Uncertainty Limits $20\log(1+/-r_i r_R)$	U-Shaped	± 0.26
System Repeatability	Std.deviation	± 0.68
Repeatability of EUT	-	-
Combined Standard Uncertainty	Normal	± 1.18
Expanded Uncertainty U	Normal (k=2)	± 2.4

TEST EQUIPMENT

No.	Instrument	Manufacturer	Model	Calibration Date
1	*Test Receiver	R & S	ESCS 30	2000.01
2	*Test Receiver	PMM	PMM9000	2000.04
3	*Amplifier	HP	8447F	2000.08
4	*Amplifier	HP	8447F	2000.08
5	Spectrum Analyzer	Advantest	R4136	1999.12
6	*Logbicon Super Antenna	Schwarzbeck	VULB9166	2000.01
7	Log-Periodic Antenna	R & S	HL025	2000.01
8	Dipole Antenna	R & S	VHA9103	2000.01
9	Dipole Antenna	R & S	UHA9105	2000.01
10	Biconical Antenna	Schwarzbeck	VHA9103	2000.01
11	Biconical Log Antenna	ARA	LPB-2520/A	2000.01
12	Absorbing Clamp	R & S	MDS21	2000.01
13	High Voltage Probe	R & S	ESH2-Z3	2000.02
14	Signal Generator	R & S	SMP02	2000.01
15	*Matching Pad	R & S	RAM358.5414.0 2	2000.05
16	LISN	R & S	ESH3-Z5	2000.02
17	LISN	PMM	L3-9103	2000.04
18	*Position Controller	EM Eng.	N/A	N/A
19	*Turn Table	EM Eng.	N/A	N/A
20	*Antenna Mast	EM Eng.	N/A	N/A
21	*Anechoic Chamber	EM Eng.	N/A	N/A
22	*Shielded Room	EM Eng.	N/A	N/A

*) Test equipment used during the test

RECOMMENDATION/CONCLUSION

The data collected shows that the **Digitra Systems Inc.**

FCC ID : **O6CPVA-100T, Digital TV PCI Board.** complies with § 15.107 and 15.109 and 15.111 of the FCC Rules.

The highest emission observed was at **19.02 MHz** for conducted emissions with a margin of **14.4 dB**, at **669.74 MHz** for radiated emissions with a margin of **3.8 dB** and at **1,202 MHz** for antenna power conducted emissions with a margin of **18.4 dB**.

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APPENDIX A – SAMPLE LABEL

Labelling Requirements

The sample label shown shall be *permanently affixed* at a conspicuous location on the device and be readily visible to the user at the time of purchase.

FCC ID : O6CPVA-100T

Trade Name: Digitra Systems Xenia

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

APPENDIX B – CIRCUIT DIAGRAM

APPENDIX C – TEST PHOTOGRAPHS

The **Conducted Test Picture** and **Radiated Test Picture** and **Antenna-Conducted Power Picture** show the worst-case configuration and cable placement.

- **Conducted Test Picture (Front)**



- **Conducted Test Picture (Rear)**



● Radiated Test Picture(Front)



● Radiated Test Picture(Rear)



● **Antenna-conducted Power Picture**

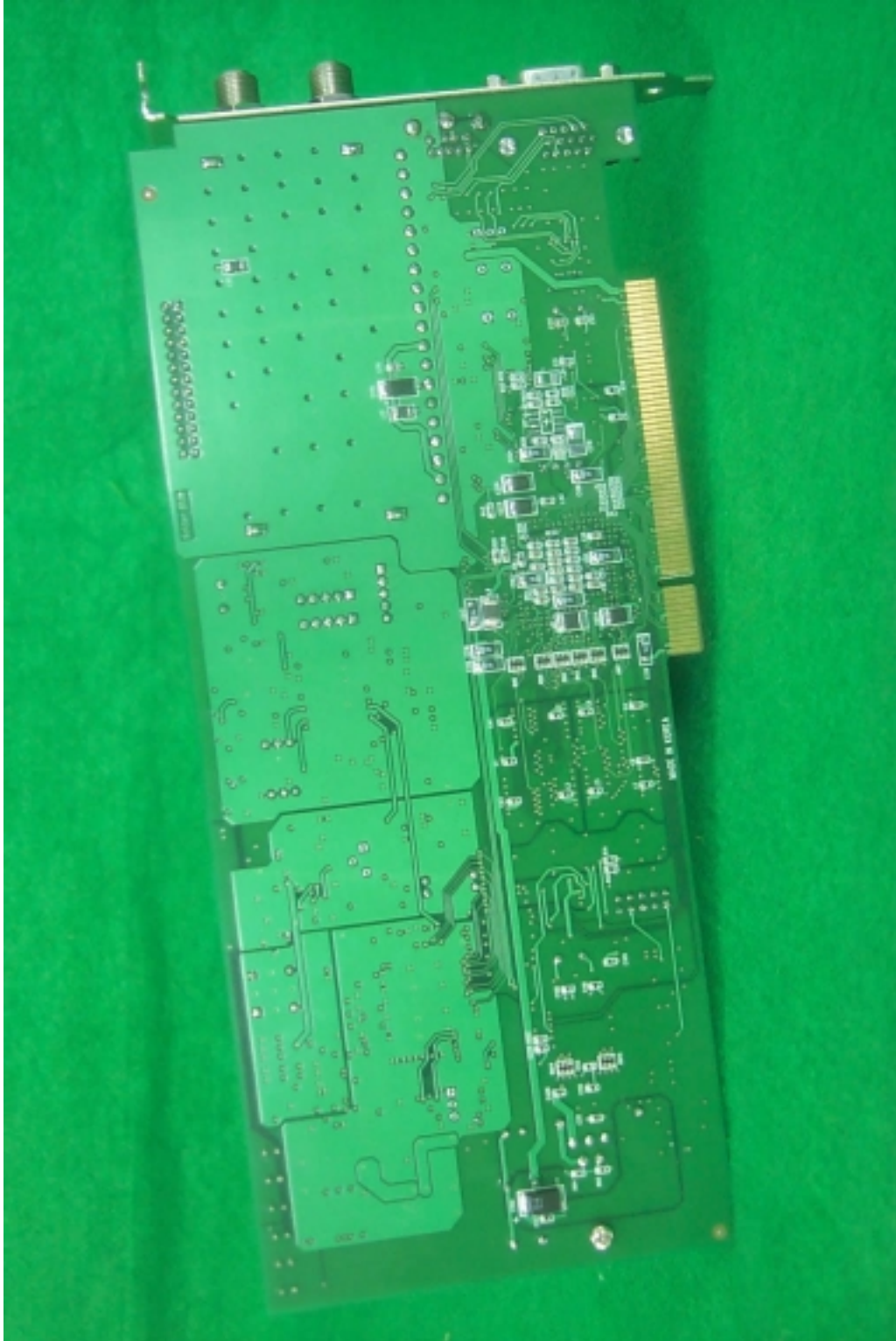


APPENDIX D – EUT PHOTOGRAPHS

- Front View of EUT



- Rear View of EUT



APPENDIX E – USER’S MANUAL

APPENDIX F – Schematic Diagrams
