



國際電器認證中心有限公司 International Electrical Certification Centre Ltd.

提供電器產品測試國際認證及諮詢服務 Technical Services in Electrical Product Testing, International Certification & Information



Accredited Laboratory



Network Partner



Qualified Independent Laboratory

F C C -

TEST REPORT

REPORT NO.: 51424

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FCC listed testlab acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of
ANSI C63.4 - 2003

Product : 1.5 Inches Keychain Digital Photo Frame

Product Class : Class B Computing Device Peripheral

Model : DP-185

Applicant : VICTORWOOD HOLDINGS LIMITED

FCC ID No. : T5HDP185

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LABORATORY - REPORT

APPLICANT: VICTORWOOD HOLDINGS LIMITED
ADDRESS: Unit 15, 8/F, Block B, Sun Fung Centre
88 Kwok Shui Road
Kwai Chung, N.T.
Hong Kong

DATE OF SAMPLE RECEIVED: 2008-11-19

DATE OF TESTING: 2008-12-02 to 2008-12-08

DESCRIPTION OF SAMPLE:

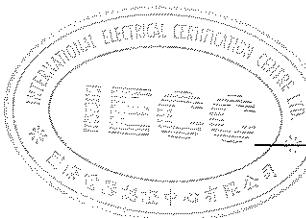
Product: 1.5 Inches Keychain Digital Photo Frame
Product class: Class B Computing Device Peripheral
Model no.: DP-185
FCC ID number: T5HDP185
Rating: DC 3.7V 180mAH Rechargeable Battery

CONDITION OF TEST SAMPLE: The received sample was under good condition.

INVESTIGATIONS REQUESTED: Measurements to the relevant clauses of F.C.C. Rules and Regulations
Part 15 Subpart B – 'Unintentional Radiators'

RESULTS: See the attached test sheets

CONCLUSIONS: From the measurement data obtained, the tested sample was considered to have COMPLIED with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.




Stephen C.N. Wong
Technical Manager

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Test Location

International Electrical Certification Centre Ltd.
Unit 602-605, 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong
Tel : +852 23052570
Fax : +852 27564480
Email : info@iecc.com.hk

Summary of Test Results

Radiated Emission:

Test result: Pass
Test data: See attached data sheet

Conducted Emission:

Test result: Pass
Test data: See attached data sheet

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TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Date
Test Receiver	Rohde & Schwarz	ESCS 30	100388	26/8/2008	25/8/2009
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	8127312	2/12/2008	1/12/2009
Antenna	Schaffner	CBL6111C	2791	22/07/2008	21/07/2010
Antenna Mast System	Schwarzbeck	AM9104	--	--	--
Turntable with Controller	Drehtisch	DT312	--	--	--

TEST SUPPORT UNITS

The sample was tested with the following PC system :

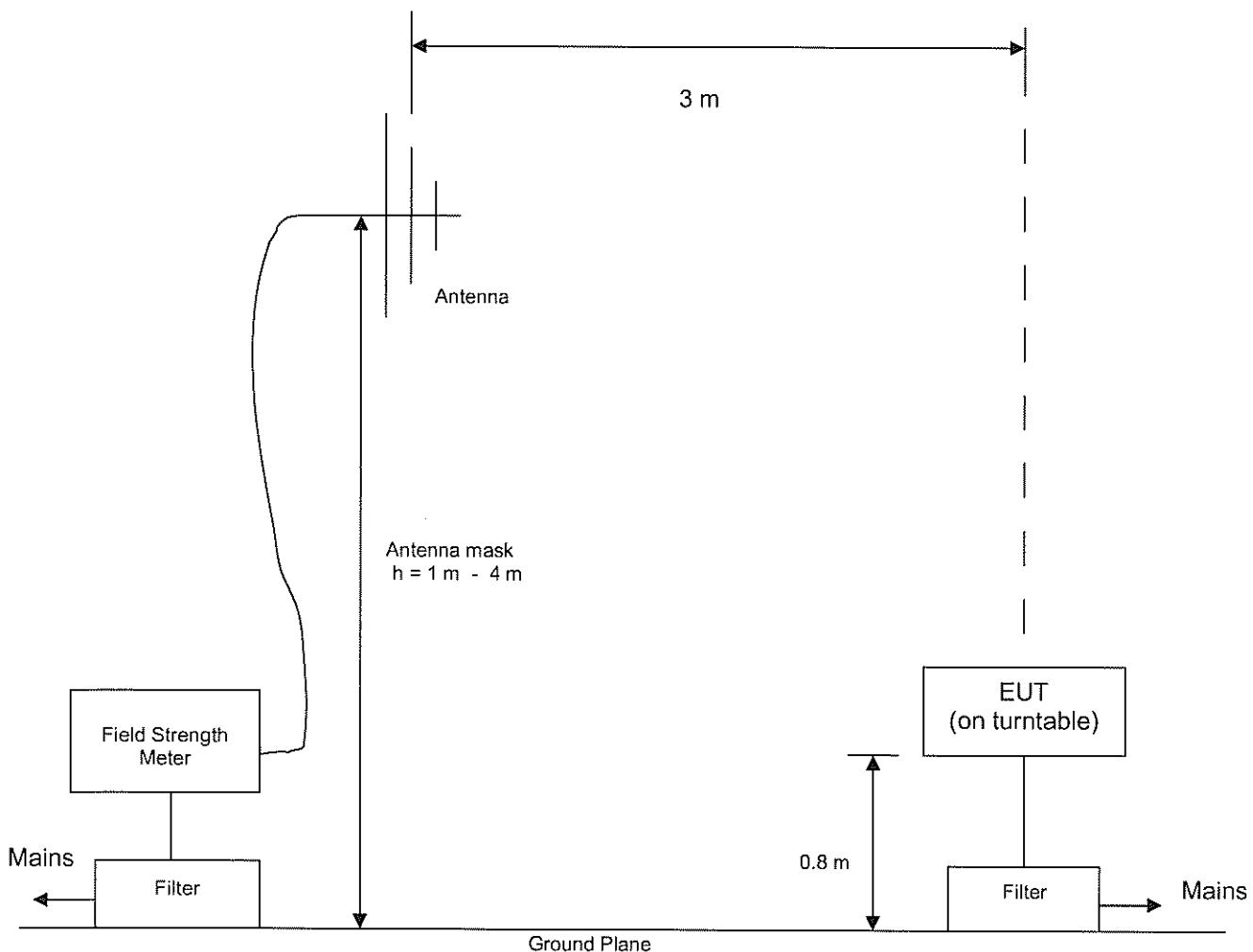
Equipment	Manufacturer	Model	Serial No.
NoteBook	DELL	PP10S	H8893 A02
Keyboard (external)	DELL	SK-8115	--
Mouse	HP	--	RK679PA#AB2
Monitor (external)	ViewSonic	VLCDS23585-1W	90S040201520
Printer	HP	C3990A	JPZT142121
Ethernet router	NetScreen	NS-5GT-103	0064022004002202

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Radiated Emission Test Setup (3 m diatance) (> 30MHz)

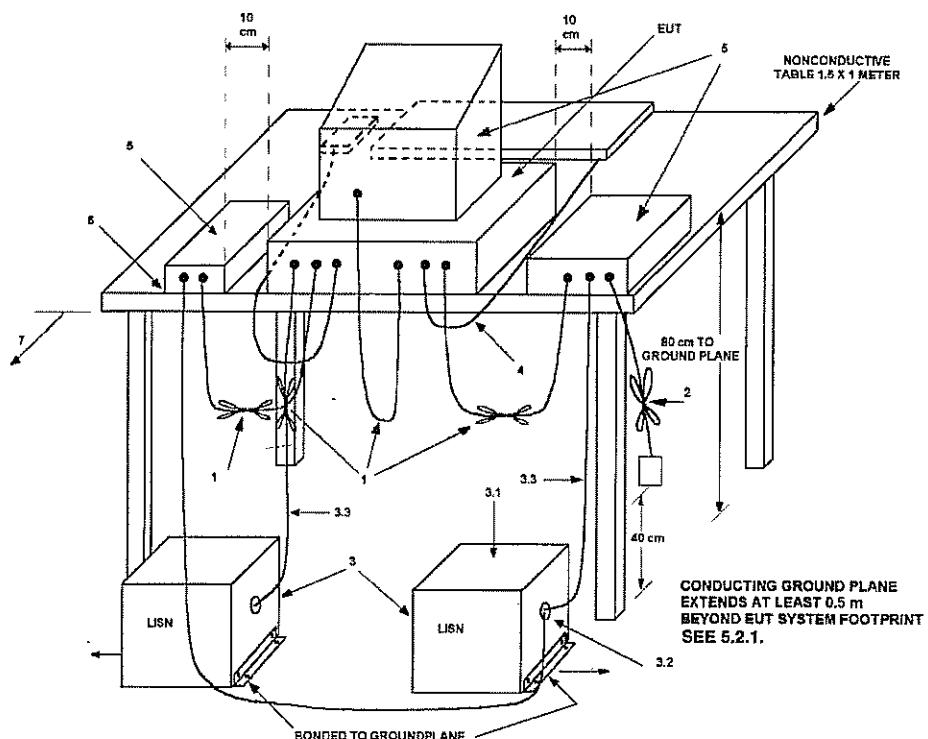
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Conducted Emission Test Setup



LEGEND:

- 1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see 6.1.4).
- 3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference groundplane (see 5.2.3 and 7.2.1).
 - 3.1) All other equipment powered from additional LISN(s).
 - 3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - 3.3) LISN at least 80 cm from nearest part of EUT chassis.
- 4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (See 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- 6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the groundplane (see 5.2.2 for options).

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Test Procedure

Radiated Emission :

The EUT was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart B Section 15.109.

During the test, the sample was placed on a turn table and operated under data transfer mode with fully charged built-in rechargeable battery. The computer system included a notebook computer, an external keyboard, a mouse, an external monitor, a printer and an ethernet router was connected to the sample during the test. The table is 0.8 meter above the reference ground plane on the Open Aera Test Site and can rotate 360 degrees to determine the position of the maximum emission level. A broad-band antenna for the frequency range 30 - 1000 MHz, connected with 10 meters coaxial cable to the test receiver was used for measurement. The antenna is capable of measuring both horizontal and vertical polarizations. The antenna was raised from 1 to 4 meters to find out the maximum emission level from the EUT.

During the test, under the data transfer mode, the sample was operated with the host notebook computer via the USB connection.

An initial pre-scan was performed to find out the maximum emission level of the sample placed at 3 orthogonal planes. Final measurement (30 MHz –1000 MHz) was then performed to record the data for the emissions under worst-case condition for combination of the antenna orientation / height and turn table position.

Note : The Open Aera Test Site located at IECC was placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No. : 97774).

Conducted Emission :

The EUT was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart B Section 15.107.

During the test, the sample was placed on a wooden table and operated under data transfer mode with fully charged built-in rechargeable battery. The computer system included a notebook computer, an external keyboard, a mouse, an external monitor, a printer and an ethernet router was connected to the sample during the test. The table is 0.8 meter above the floor. During the test, under the data transfer mode, the sample was operated with the host notebook computer via the USB connection. The host notebook computer was connected to the LISN which was connected to the test receiver for conducted emission measurement (150kHz – 30MHz).

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Test Results

Radiated Emission :

Test Requirement: FCC Part 15 Subpart B Section 15.109
Test Method: ANSI C63.4 : 2003
Deviations from Standard Test Method: Nil
Frequency Range: 30MHz – 1000MHz
Measurement Distance: 3 m
Class: Class B
Detector: Quasi-Peak

Refer to page 11 for measurement data.

Conducted Emission :

Test Requirement: FCC Part 15 Subpart B Section 15.107
Test Method: ANSI C63.4 : 2003
Deviations from Standard Test Method: Nil
Frequency Range: 150kHz – 30MHz
Class: Class B
Detector: Quasi-Peak / Average

Refer to page 12 - 15 for measurement data.



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Radiated Emission

Acc: FCC Part 15 Subpart B (15.109)

IECC Ref:	51424	Test Equipment
Model:	DP-185	Receiver: Rohde & Schwarz ESCS 30
Applicant:	VICTORWOOD HOLDINGS LIMITED	Antenna: Schaffner CBL6111C
Ser.Nr.:	--	
Set under test:	1.5 Inches Keychain Digital Photo Frame	
Connected sets:	-	
Operating mode:	DataTransfer with the host computer	

Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Corr. Factor (dB)	Horiz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
30	< 16.0	< 16.0	19.1	< 35.1	< 35.1	40.0
50	< 16.0	< 16.0	7.7	< 23.7	< 23.7	40.0
56	< 16.0	< 16.0	6.7	< 22.7	< 22.7	40.0
96	24.0	20.0	9.2	33.2	29.2	43.5
120	< 16.0	< 16.0	11.5	< 27.5	< 27.5	43.5
192	< 16.0	< 16.0	9.1	< 25.1	< 25.1	43.5
240	< 16.0	< 16.0	12.3	< 28.3	< 28.3	46.0
360	< 16.0	< 16.0	15.3	< 31.3	< 31.3	46.0
408	< 16.0	< 16.0	17.1	< 33.1	< 33.1	46.0
500	< 16.0	< 16.0	18.9	< 34.9	< 34.9	46.0
700	< 16.0	< 16.0	22.3	< 38.3	< 38.3	46.0
1000	< 16.0	< 16.0	26.2	< 42.2	< 42.2	54.0

The measurement results indicate that the test sample meets the FCC requirements.

Note :

1. The above measured data are in Quasi-Peak values.
2. The above results were the worst case results with the sample positioned in all 3 axis during the test. The worst data was found with the sample placed horizontally on the table.

Operator : KT

U 5/6

Interference Voltage 150 KHz - 30 MHz

acc. FCC PART 15 Subpart B Section 15.107(a) Class B

Cabin 1

Model: DP-185

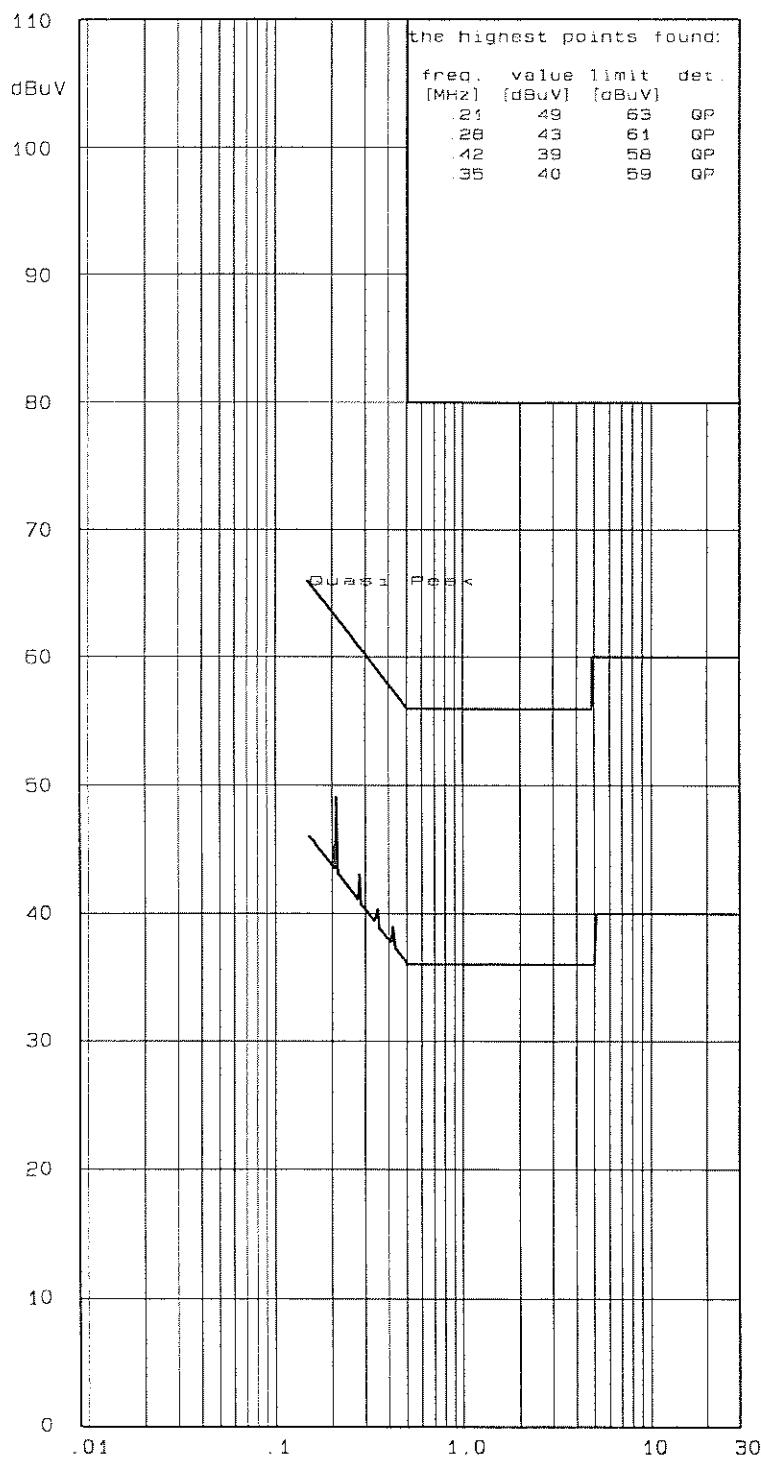
Spl./Ser.No.: 01 / --

Client : VICTORWOOD HOLDINGS

Product: PHOTO FRAME

IECC-No.: 51424

Date: 2 Dec 2008



Test equipment:

Rohde & Schwarz ESHS30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER
TEST W/ REFERENCE COMPUTER
(L)

--

RFI suppression parts:

--

* two dB safety margin for
type approval necessary

Operator: KT

Result: *OK*

IECC

U 5 / 6

Interference Voltage 150 KHz - 30 MHz

acc. FCC PART 15 Subpart B Section 15.107(a) Class B

Cabin 1

Model: DP-185

Spl./Ser.No.: 01 / --

Client : VICTORWOOD HOLDINGS

Product: PHOTO FRAME

IECC-No.: 51424

Date: 2 Dec 2008

Test equipment:

Rohde & Schwarz ESHS30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER
TEST W/ REFERENCE COMPUTER
(L)

--

RFI suppression parts:

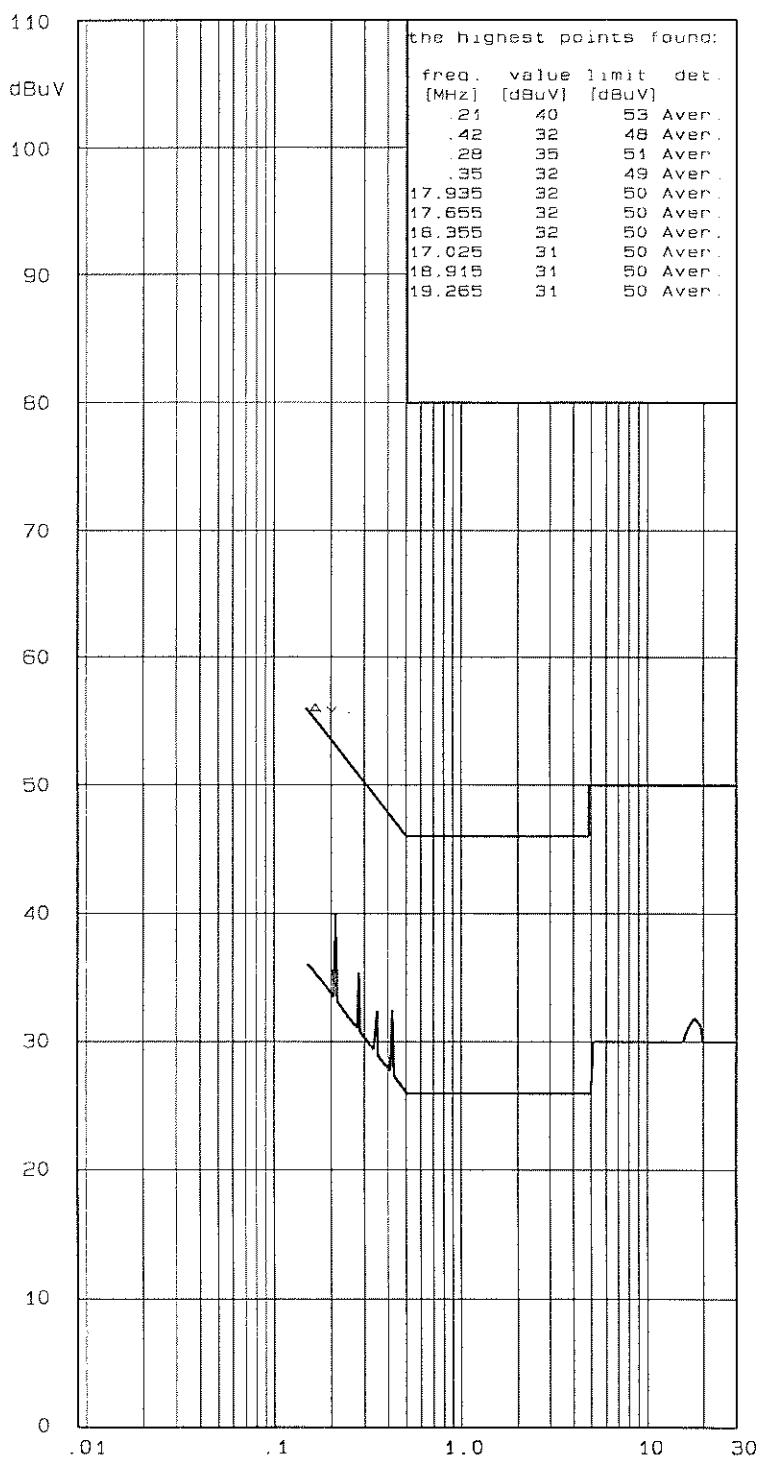
--

* two dB safety margin for
type approval necessary

Operator: KT

Result: 

IECC



U 5/6

Interference Voltage 150 KHz - 30 MHz

acc. FCC PART 15 Subpart B Section 15.107(a) Class B

Cabin 1

Model: DP-105

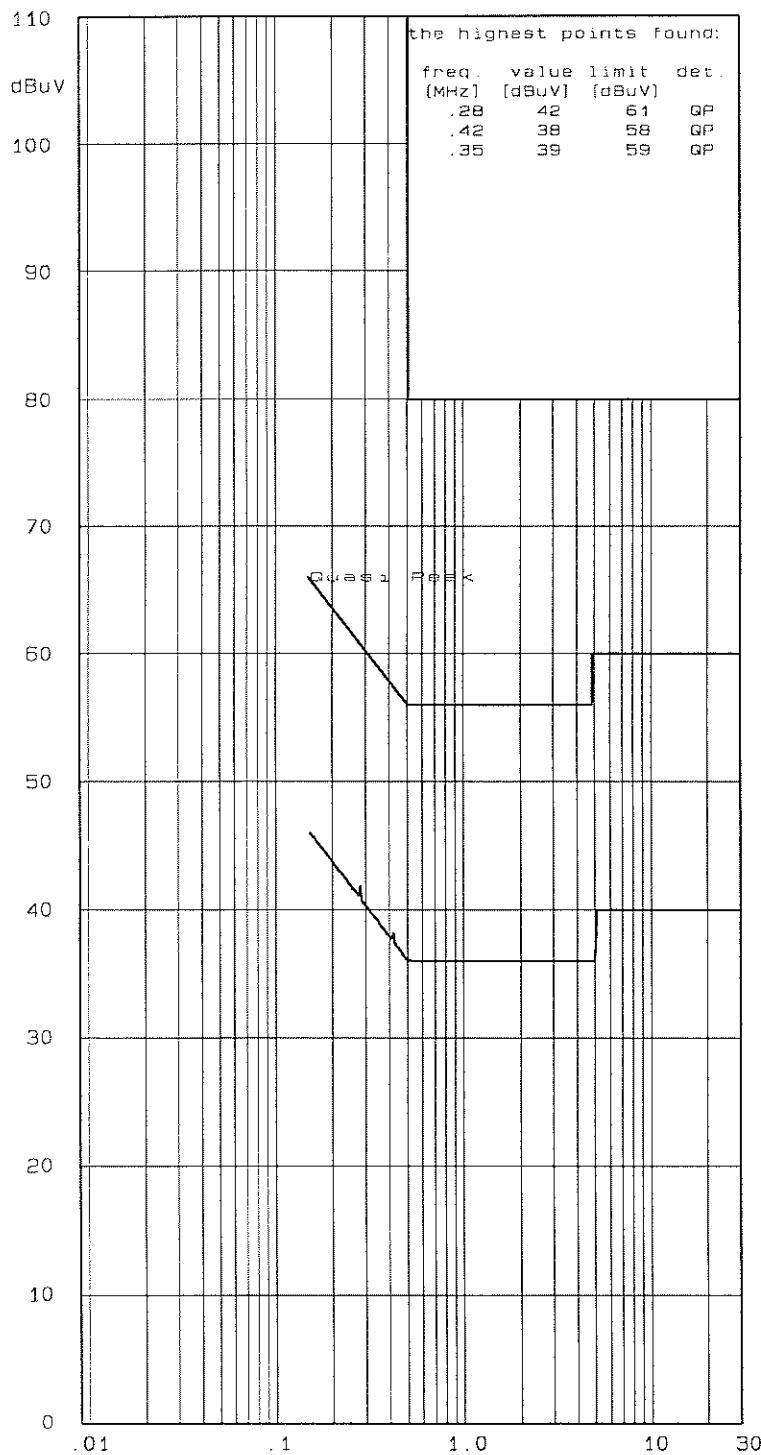
Spl./Ser.No.: 01 / --

Client : VICTORWOOD HOLDINGS

Product: PHOTO FRAME

IECC-No.: 51424

Date: 2 Dec 2008



Test equipment:

Rohde & Schwarz ESHS30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER
TEST W/ REFERENCE COMPUTER
(N)
--

RFI suppression parts:

--

* two dB safety margin for
type approval necessary

Operator: KT

Result: *ok*

IECC

U 5/6

Interference Voltage 150 KHz - 30 MHz

acc. FCC PART 15 Subpart B Section 15.107 (a) Class B
Cabin 1

Model: OP-185

Spl./Ser.No.: 01 / --

Client : VICTORWOOD HOLDINGS

Product: PHOTO FRAME

IECC-No.: 51424

Date: 2 Dec 2008

Test equipment:

Rohde & Schwarz ESHS30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER
TEST W/ REFERENCE COMPUTER
(N)

--

RFI suppression parts:

--

* two dB safety margin for
type approval necessary

Operator: KT

Result: OK

IECC

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Photograph Of The Sample

