



HomeTek Technology Inc.

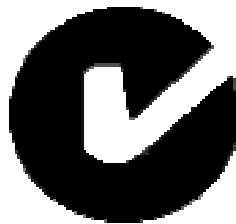
ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien, Taiwan,
PHONE : 886-2-22608375 FAX : 886-2-22748013
E - mail : hometek@ms15.hinet.net



NVLAP Lab Code:200331-0

EMI TEST REPORT FOR

APPLICANT : SMART CABLING & TRANSMISSION CORP.
ADDRESS : 10F, No. 493, Chung-Cheng Rd.,
Hsin Tien City, Taipei 231, Taiwan, R. O. C.
EUT : Power Center
MODEL NO. : PR8XXX



MEASUREMENT PROCEDURE USED

AS/NZS CISPR 22: 2004 Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement

PREPARED BY :
HomeTek Technology Inc.
No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien. Taiwan
Report # : AS5F021



TABLE OF CONTENTS..... 2

CERTIFICATE 3

GENERAL INFORMATION..... 4

MODIFICATION LIST..... 6

CONDUCTED POWER LINE TEST 7

 1 TEST INSTRUMENTS & FACILITIES..... 7

 2 TEST PROCEDURE..... 7

 3 TEST SETUP 8

 4 CONFIGURATION OF THE EUT 10

 5 EUT OPERATING CONDITION..... 12

 6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B..... 12

 7 RESULT OF CONDUCTED POWER LINE TEST..... 12

 8 CONDUCTED POWER LINE TEST DATA (PAGE 1)..... 13

 9 CONDUCTED POWER LINE TEST DATA (PAGE 2)..... 14

 10 CONDUCTED POWER LINE TEST DATA (PAGE 3)..... 15

 11 CONDUCTED POWER LINE TEST DATA (PAGE 4)..... 16

RADIATED EMISSION TEST..... 17

 1 TEST INSTRUMENTS & FACILITIES..... 17

 2 TEST PROCEDURE..... 18

 3 TEST SETUP 18

 4 CONFIGURATION OF THE EUT 20

 5 EUT OPERATING CONDITION..... 20

 6 LIMIT OF RADIATED EMISSION CLASS B 20

 7 RESULT OF RADIATED EMISSION TEST..... 20

 8 RADIATED EMISSION TEST DATA (PAGE 1)..... 21

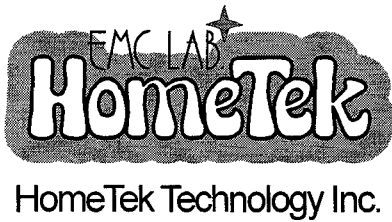
 9 RADIATED EMISSION TEST DATA (PAGE 2)..... 22

APPENDIX A

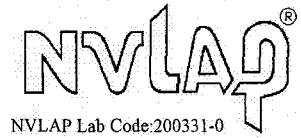
PHOTOS OF TEST CONFIGURATION

APPENDIX B

PHOTOS OF EUT



ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien, Taiwan
PHONE : 886-2-22608375 FAX : 886-2-22748013
E - mail : hometek@ms15.hinet.net



CERTIFICATE

APPLICANT : SMART CABLING & TRANSMISSION CORP.
ADDRESS : 10F, No. 493, Chung-Cheng Rd.,
Hsin Tien City, Taipei 231, Taiwan, R. O. C.
Receipt Date : 06/15/2006 Final Test Date: 07/04/2006
EUT : Power Center
MODEL NO. : PR8XXX

MEASUREMENT PROCEDURE USED :

AS/NZS CISPR 22: 2004 Information technology equipment – Radio
disturbance characteristics – Limits and methods of measurement

- THE MAXIMUM EMISSION LEVELS WERE COMPARED TO THE CISPR 22 CLASS B LIMITS BOTH RADIATED AND CONDUCTED EMISSION.
- THE ABOVE DEVICE WAS TESTED BY HOMETEK TECHNOLOGY INC. TO SHOWS THE MAXIMUM EMISSION LEVEL FROM THE DEVICE.
- THIS TEST RESULTS OF THIS REPORT APPLIES TO ABOVE TESTED SAMPLE ONLY.
- THIS TEST REPORT SHALL NOT BE REPRODUCE IN PART WITHOUT WRITTEN APPROVAL OF HOMETEK TECHNOLOGY INC.
- THE REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U. S. GOVERNMENT.
- THE TEST RESULTS ARE TRACEABLE TO THE NATIONAL OR INTERNATIONAL STANDARD.

APPROVED BY : Alain Lin 7/17/2006
ALAIN LIN / Supervisor

GENERAL INFORMATION

- 1 APPLICANT : SMART CABLING & TRANSMISSION CORP.
- 2 ADDRESS : 10F, No. 493, Chung-Cheng Rd.,
Hsin Tien City, Taipei 231, Taiwan, R. O. C.
- 3 MANUFACTURER : SMART CABLING & TRANSMISSION CORP.
- 4 ADDRESS : 10F, No. 493, Chung-Cheng Rd.,
Hsin Tien City, Taipei 231, Taiwan, R. O. C.
- 5 DESCRIPTION OF EUT :
- EUT : Power Center
- Model Number : PR8XXX
- Serial # : N/A

5.1 The difference between series of models PR8XXX are as shown below:

P R 8 X X X

- (1) The first and second “X” represent different system input.
- (2) The last “X” represent different accessory.

The PCB layout is similar. The worst case of model is PR816, and the final test data were shown in this test report.

6 FEATURES OF EUT :

Please refer to user manual or product specification.

7 TEST MODE :

The EUT were investigated with two operation modes shown as below :

- (1) Full Load Mode;
- (2) Half Load Mode

The test mode of (1) Full Load Mode is worst case, and the final test data were shown in this test report.



MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

CONDUCTED POWER LINE TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model # S/N	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30 844827/007	FEB/2006
2	LISN (for EUT)	50Ω/50uH/100A 150KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121 8121370	OCT/2005
3	LISN (for Support Unit)	50Ω/50uH/10A 9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5 846128/007	MAR/2006
4	Terminator	50Ω	N/A	N/A	NOV/2005
5	Attenuation	50Ω/10dB	Mini-Circuit	NAT-10 AT-002	JUL/2005
6	Cable	5.4m	SUHNER	RG-223 CON2-002	AUG/2005
7	ESXS-K1 (software)	Version 2.03b 9KHz ~ 30MHz	ROHDE & SCHWARZ	1082.9678.02 840.913/246	N/A

Note : Items 1 ~ 6 were calibrated within period of 1 year.

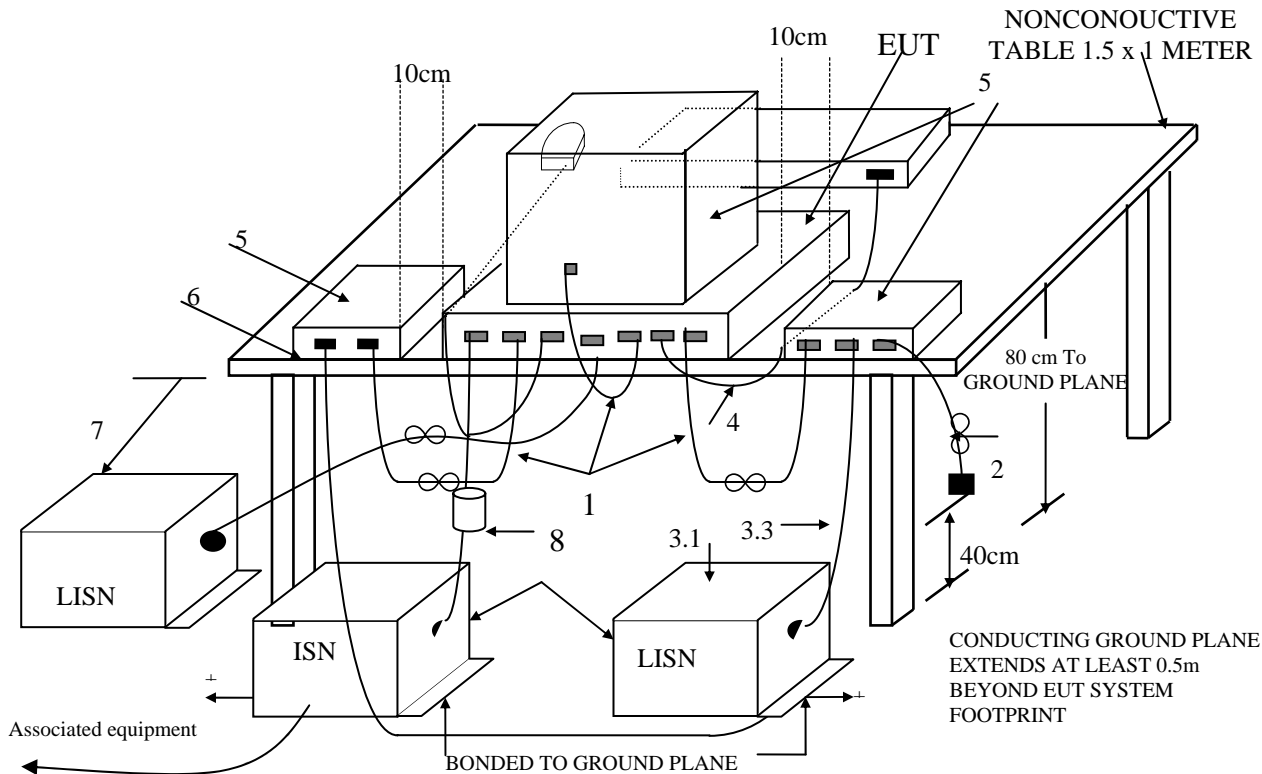
2 TEST PROCEDURE

- 2.1 The EUT was tested according to **AS/NZS CISPR 22**.
- 2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.
- 2.3 The frequency range form 0.15 MHz to 30 MHz was investigated.
- 2.4 The LISN used was 50 Ohm / 50 uHenry as specified of **AS/NZS CISPR 22**.
- 2.5 All the support peripherals are connect to the other LISN.
- 2.6 Cables and peripherals were moved to find the maximum emission levels for each frequency.

3 TEST SETUP

3.1 Typical : Setup Of Conducted Test

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9kHz TO 40 GHz AS/NZS CISPR 22



+LISNs may have to be moved to the side to meet 3.3 below.

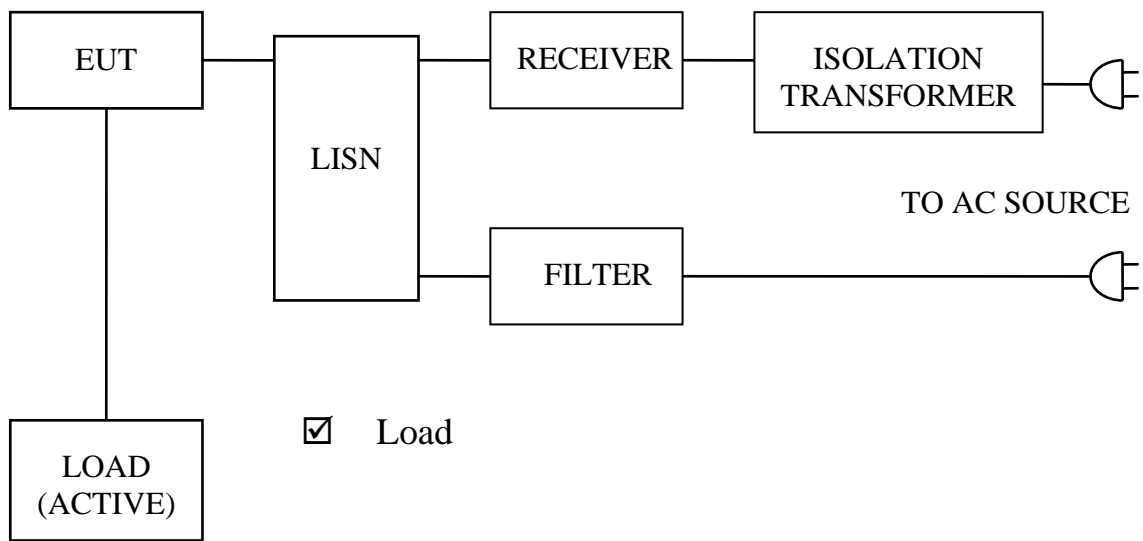
(Details for setup configuration, please refer to appendix A.)

LEGEND:

1. If cables, which hang closer than 40 cm to the horizontal metal groundplane, cannot be shortened to appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
2. Excess mains cord shall be bundled in the centre or shortened to appropriate length.
3. EUT is connected to one artificial mains network (AMN). All AMNs and ISNs may alternatively be connected to a vertical reference plane or metal wall.
 - 3.1 All other units of a system are powered from a second AMN. A multiple outlet strip can be used for multiple mains cords.
 - 3.2 AMN and ISN are 80 cm from the EUT and at least 80 cm from other units and other metal planes.
 - 3.3 Mains cords and signal cables shall be positioned for their entire lengths, as far as possible, at 40 cm from the vertical reference plane.
4. Cables of hand-operated devices, such as keyboards, mice, etc., have to be placed as close as for normal usage.
5. Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if this is an acceptable installation practice, shall be placed directly on the top of the controller.
6. I/O signal cable intended for external connection.
7. The end of the I/O signal cables which are not connected to an AE may be terminated, if required, using correct terminating impedance.
8. If used, the current probe shall be placed at 0.1 m from the ISN.

Test Configuration Tabletop Equipment Conducted Emission

3.2 Block Diagram Of Conducted Test



4 CONFIGURATION OF THE EUT

The EUT was configured according to **AS/NZS CISPR 22**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :

4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production
Condition when received : Good Damage : _____
Device : Power Center
Applicant : SMART CABLING & TRANSMISSION CORP.
Manufacturer : SMART CABLING & TRANSMISSION CORP.
Model Number : PR8XXX
Serial Number : N/A
FCC ID : N/A
Data Cable : N/A
Power Cord (AC) Input : Un-Shielded, 1.8 m, 3 pin
Power Cord (AC) Output : Un-Shielded, 1.0 m, 2 pin
Power Supply Type : Linear

4.2 PERIPHERALS

Full Load

Manufacturer : HomeTek
Specification : $3\Omega/24V$
Power Cord : Un-Shielded, 1.0 m



Half Load

Manufacturer : HomeTek

Specification : 6Ω/24V

Power Cord : Un-Shielded, 1.0 m

4.3 REMARK : N/A

5 EUT OPERATING CONDITION

- 5.1 The frequency of the EUT is none.
- 5.2 Configure the EUT according to the **AS/NZS CISPR 22**.
- 5.3 Install the appropriate Load.
- 5.4 Performance the EMI testing procedures, and measure the maximum emission noise.
- 5.5 The photos of conducted test configuration, please refer to appendix A.**

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B

AS/NZS CISPR 22

Frequency Range	Quasi Peak	Average
0.15 ~ 0.5 MHz	66 - 56 dBuV	56 - 46 dBuV
0.5 ~ 5 MHz	56 dBuV	46 dBuV
5 ~ 30 MHz	60 dBuV	50 dBuV

- 6.1 In the above table, the tighter limit applies at the band edges.

7 RESULT OF CONDUCTED POWER LINE TEST

- 7.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.
- 7.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.
- 7.3 Temperature : 28 °C, Humidity : 55 % RH.
- 7.4 Uncertainty in conducted emission measurement : ± 2.90dB.
- 7.5 The conducted test result were gained by following procedures :
 Level = Reading Level + Insertion Loss of LISN + Cable Loss
 (All calculation were done by ESHS30 EMI test receiver.)
- 7.6 Result : **PASSED**

8 CONDUCTED POWER LINE TEST DATA (PAGE 1)

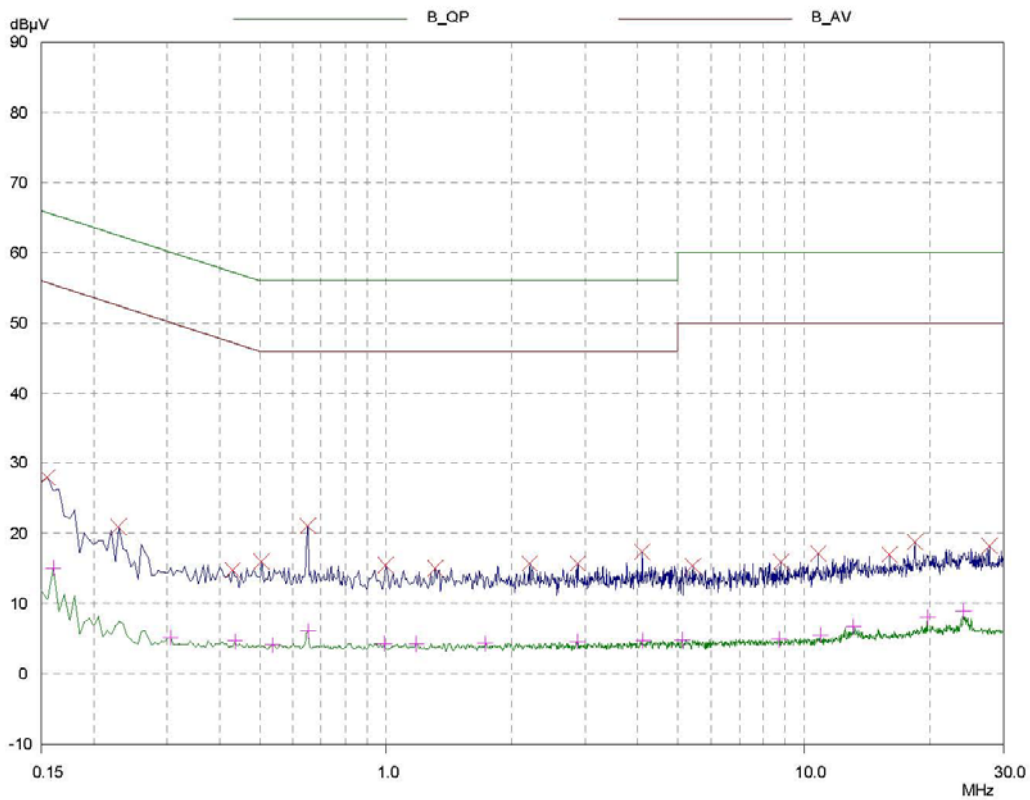
HomeTek EMC LAB. TEL :886-2-22608375

04 Jul 2006 14:10

CONDUCTED EMISSIONS

EUT: Power Center
 Manuf: 5F021
 Op Cond: LINE 1
 Operator: Makoto
 Test Spec: FOR CISPR22 CLASS B
 Comment: 240V/50Hz
 PR816 (Full Load)
 Result File: 5f02112g.dat : FULL LOAD

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB





9 CONDUCTED POWER LINE TEST DATA (PAGE 2)

HomeTek EMC LAB. TEL :886-2-22608375

04 Jul 2006 14:10

CONDUCTED EMISSIONS

EUT: Power Center
 Manuf: 5F021
 Op Cond: LINE 1
 Operator: Makoto
 Test Spec: FOR CISPR22 CLASS B
 Comment: 240V/50Hz
 PR816 (Full Load)
 Result File: 5f02112g.dat : FULL LOAD

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBμV	PK Limit dBμV	PK Delta dB
0.155	27.88	65.73	37.85
0.23	20.90	62.45	41.55
0.43	14.72	57.25	42.53
0.505	15.97	56.00	40.03
0.65	21.05	56.00	34.95
1.0	15.45	56.00	40.55
1.31	15.01	56.00	40.99
2.21	15.71	56.00	40.29
2.88	15.69	56.00	40.31
4.09999	17.36	56.00	38.64
5.42	15.32	60.00	44.68
8.8	15.95	60.00	44.05
10.79	17.10	60.00	42.90
16.0	16.98	60.00	43.02
18.41	18.73	60.00	41.27
27.77	18.19	60.00	41.81

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.16	15.03	55.46	40.43
0.305	5.22	50.11	44.89
0.435	4.67	47.16	42.49
0.535	4.13	46.00	41.87
0.65	6.13	46.00	39.87
0.99	4.35	46.00	41.65
1.18	4.31	46.00	41.69
1.73	4.38	46.00	41.62
2.87	4.63	46.00	41.37
4.11	4.78	46.00	41.22
5.1	4.87	50.00	45.13
8.73	4.98	50.00	45.02
10.93	5.50	50.00	44.50
13.1	6.73	50.00	43.27
19.71	8.08	50.00	41.92
24.0	8.89	50.00	41.11

* limit exceeded

10 CONDUCTED POWER LINE TEST DATA (PAGE 3)

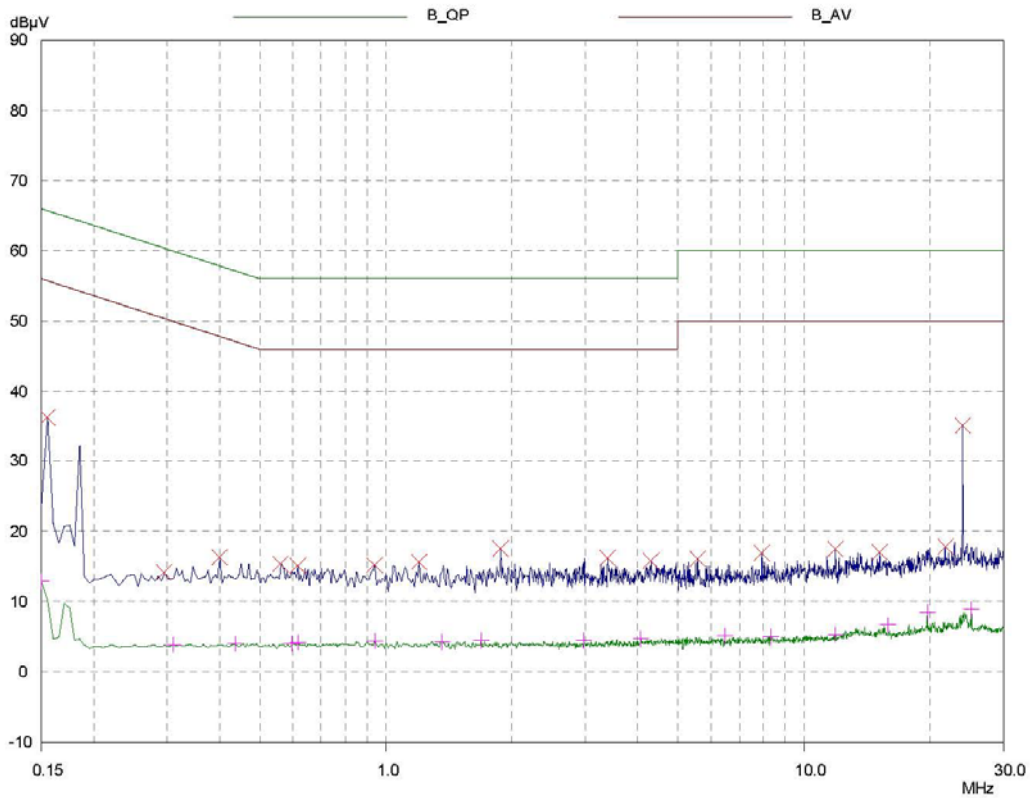
HomeTek EMC LAB. TEL :886-2-22608375

04 Jul 2006 14:06

CONDUCTED EMISSIONS

EUT: Power Center
 Manuf: 5F021
 Op Cond: LINE 2
 Operator: Makoto
 Test Spec: FOR CISPR22 CLASS B
 Comment: 240V/50Hz
 PR816 (Full Load)
 Result File: 5f02122g.dat : FULL LOAD

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB





11 CONDUCTED POWER LINE TEST DATA (PAGE 4)

HomeTek EMC LAB. TEL :886-2-22608375

04 Jul 2006 14:06

CONDUCTED EMISSIONS

EUT: Power Center
 Manuf: 5F021
 Op Cond: LINE 2
 Operator: Makoto
 Test Spec: FOR CISPR22 CLASS B
 Comment: 240V/50Hz
 PR816 (Full Load)
 Result File: 5F02122g.dat : FULL LOAD

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBµV	PK Limit dBµV	PK Delta dB
0.155	36.32	65.73	29.41
0.295	14.16	60.38	46.22
0.4	16.29	57.85	41.56
0.56	15.37	56.00	40.63
0.615	15.15	56.00	40.85
0.94	15.18	56.00	40.82
1.2	15.61	56.00	40.39
1.88	17.55	56.00	38.45
3.39	16.23	56.00	39.77
4.3	15.75	56.00	40.25
5.56	16.06	60.00	43.94
7.91	16.89	60.00	43.11
11.87	17.45	60.00	42.55
15.14	17.03	60.00	42.97
21.75	17.80	60.00	42.20
23.94	35.20	60.00	24.80

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15	12.92	56.00	43.08
0.31	3.91	49.97	46.06
0.435	4.01	47.16	43.15
0.595	4.07	46.00	41.93
0.615	4.17	46.00	41.83
0.94	4.41	46.00	41.59
1.36	4.30	46.00	41.70
1.69	4.48	46.00	41.52
2.97	4.53	46.00	41.47
4.05999	4.72	46.00	41.28
6.47	5.13	50.00	44.87
8.31	5.05	50.00	44.95
11.87	5.31	50.00	44.69
15.88	6.65	50.00	43.35
19.71	8.51	50.00	41.49
25.11	8.85	50.00	41.15

* limit exceeded

RADIATED EMISSION TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the radiated emission test :

Item	Instruments /facilities	Specification	Manufacturer	Model # / S/N#	Date of Cal.
1	OPEN AREA TEST SITE	<input checked="" type="checkbox"/> OATS 3			JUL/2005
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	FEB/2006
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	OCT/2005
4	ANTENNA (BI-LOG)	25MHz ~ 2GHz	SCHAFFNER	CBL6112B S/N : 2614	JUN/2006
5	Attenuation	50Ω/6dB	JYE BAO	FAT-N (M-F) 001	JUL/2005
6	Ferrite Clamp	30 ~ 1000MHz	ADT	FC18 910030	DEC/2005
7	Ferrite Clamp	30 ~ 1000MHz	HomeTek	HFC 001	DEC/2005
8	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2005
9	Cable	14m	BELDEN	9913 OS3-001	DEC/2005
10	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

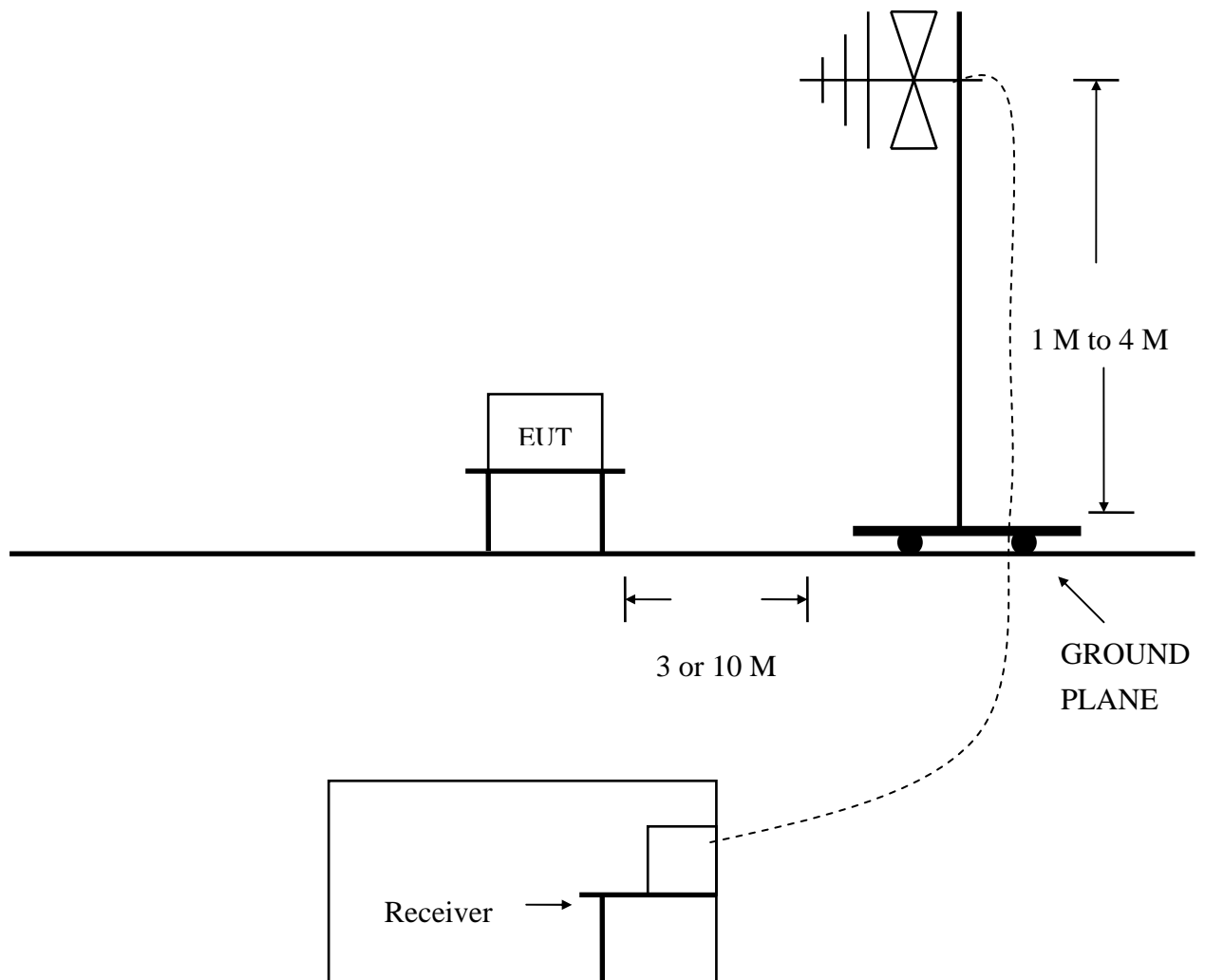
Note : Items 1 ~ 9 were calibrated within period of 1 year.

2 TEST PROCEDURE

- 2.1 The EUT was test according to **AS/NZS CISPR 22**.
- 2.2 The radiated test was performed at HomeTek Lab's Open Site **III**.
- 2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

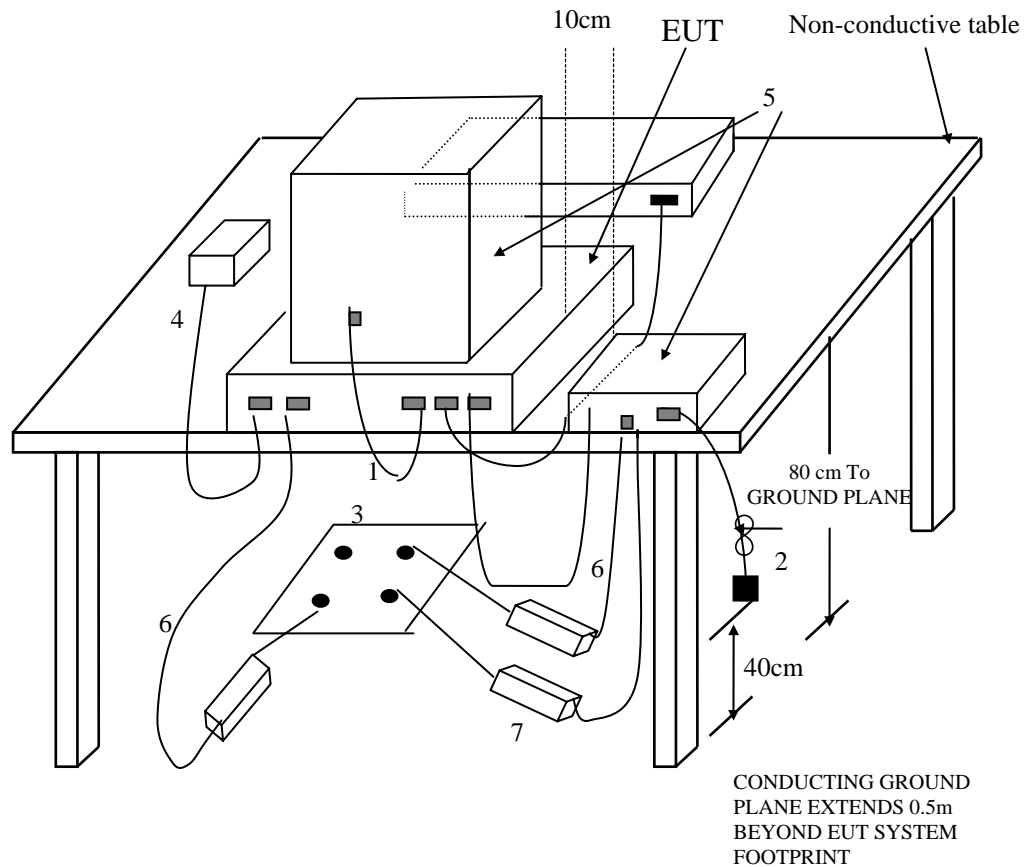
3 TEST SETUP

3.1 TEST SETUP OF OPEN SITE.



3.2 TEST SETUP OF EUT

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9kHz TO 40 GHz AS
NZS CISPR 22



(Details for setup configuration, please refer to appendix A.)

LEGEND:

1. If cables, which hang closer than 40 cm to the horizontal metal ground plane cannot be shortened to the appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
2. The end of I/O signal cables which are not connected to a peripheral may be terminated, if required for proper operation using correct terminating impedance.
3. Mains junction box(es) shall be flush with, and bonded directly to, the metal ground plane.
NOTE if used, the AMN shall be installed under the horizontal metal ground plane.
4. Cables of hand-operated devices such as keyboards, mouses, etc. shall be placed as for normal usage.
5. Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if for an acceptable installation practice, shall be placed directly on top of the controller.
6. Mains cables, telephone lines or other connections to auxiliary equipment located outside the test area shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.
7. Ferrite clamps or ferrite tubes with similar characteristics (as defined in 10.4). No more than one cable per clamp.

Test Configuration Tabletop Equipment Radiated Emission

4 **CONFIGURATION OF THE EUT**
Same as “Conducted Power Line test”, section 5

5 **EUT OPERATING CONDITION**

5.1 Same as “Conducted Power Line test”, section 5

5.2 The radiated emission in the frequency range from 30 MHz - 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab’s open site III.

5.3 The photos of radiated test configuration, please refer to appendix A.

6 **LIMIT OF RADIATED EMISSION CLASS B**

AS/NZS CISPR 22

Frequency (MHz)	Measurement Distance	Limit (dBuV/m)
30 - 230	10 (M)	30
230 - 1000	10 (M)	37

6.1 The tighter limit shall apply at the edge between two frequency bands.

6.2 Measurement distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or peripherals.

7 **RESULT OF RADIATED EMISSION TEST**

7.1 The frequency range from 30 MHz to 1 GHz was investigated.

7.2 All readings below or equal 1 GHz are quasi-peak or peak values with resolution bandwidth of 120 KHz.

7.3 The measurements were made at 10 meters of HomeTek Lab’s open site III.

7.4 Temperature : 30 °C, Humidity : 60 % RH.

7.5 Uncertainty in radiated emission measurement : ± 4.18dB.

7.6 The radiated emission result were gained by the following method :

Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor

Over Limit = Level – Limit Line

7.7 Result : **PASSED**



8 RADIATED EMISSION TEST DATA (PAGE 1)

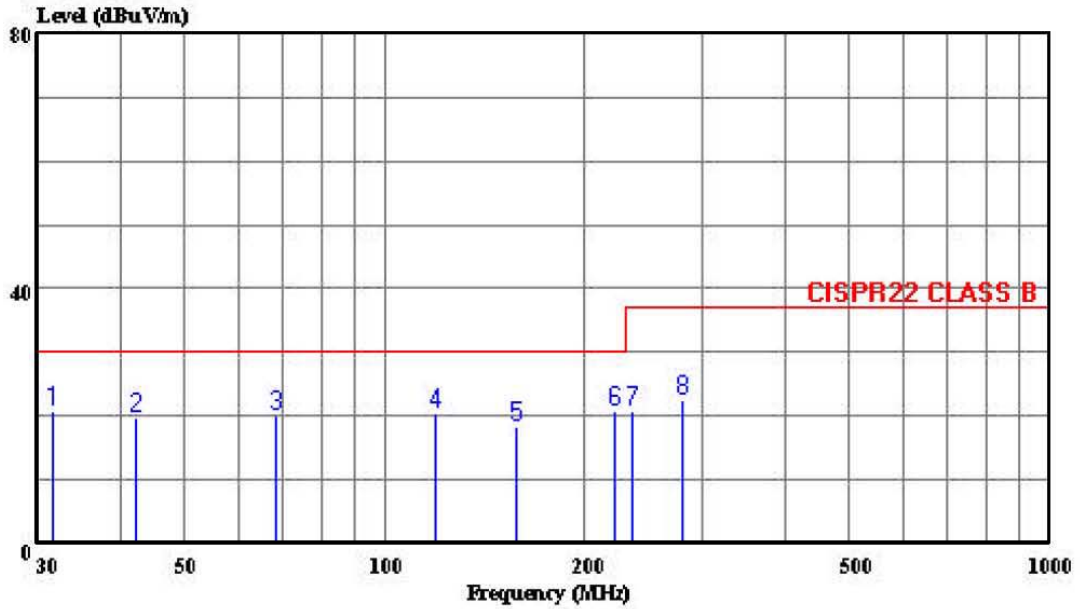


HomeTek Technology Inc.

No 67-9, Shi-Men Rd., Tu-Chen City, Taipei County, Taiwan R.O.C. Tel:02-22608375 Fax:02-22748013

Data#: 4 File#: 5f021.EMI

Date: 2006-07-04 Time: 15:58:47



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 HORIZONTAL
cut : Power Center
power: 240V/50Hz
memo : PR816 (Full Load)

Page: 1

	Limit	Over	ReadAntenna	Cable	Preamp				
Freq	Level	Line	Level	Loss	Factor	Remark			
MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB		
1	31.560	20.88	30.00	-9.12	28.13	17.96	0.76	25.98	Peak
2	42.180	19.75	30.00	-10.25	31.53	13.30	0.87	25.95	Peak
3	68.740	20.11	30.00	-9.89	38.67	6.20	1.11	25.87	Peak
4	119.000	20.55	30.00	-9.45	32.44	12.38	1.49	25.75	Peak
5	157.413	18.27	30.00	-11.73	32.19	10.04	1.72	25.68	Peak
6	221.990	20.88	30.00	-9.12	34.91	9.50	2.07	25.60	Peak
7	235.710	20.94	37.00	-16.06	33.47	10.94	2.12	25.58	Peak
8	280.880	22.55	37.00	-14.45	32.90	12.90	2.29	25.54	Peak



9 RADIATED EMISSION TEST DATA (PAGE 2)

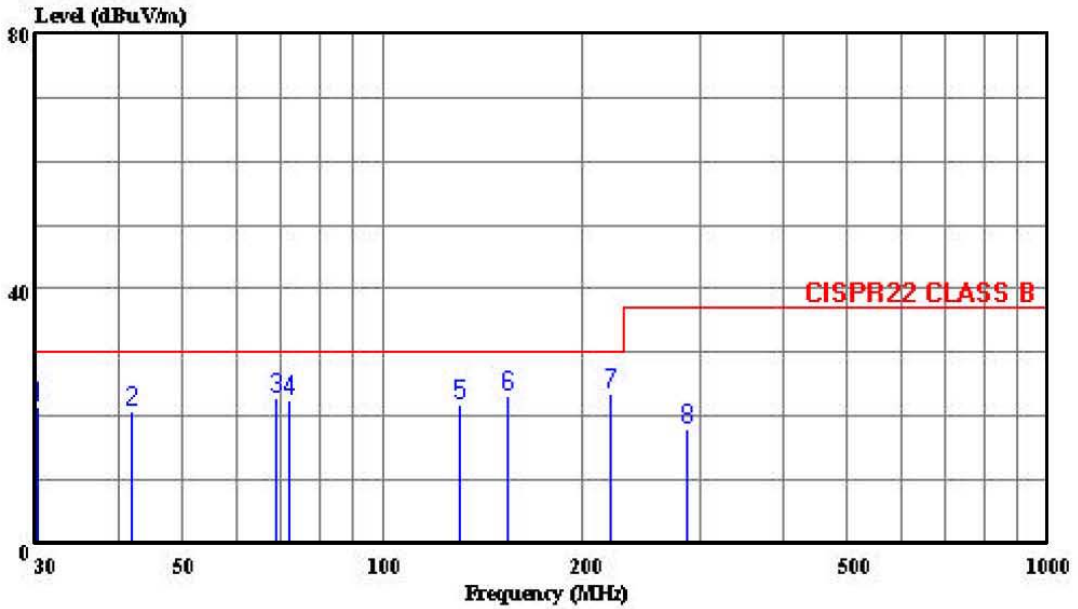


HomeTek Technology Inc.

No 67-9, Shi-Men Rd., Tu-Chen City,
 Taipei County, Taiwan R.O.C.
 Tel: 02-22608375
 Fax: 02-22748013

Data#: 3 File#: 5f021.EMI

Date: 2006-07-04 Time: 15:31:17



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 VERTICAL
 eut : Power Center
 power: 240V/50Hz
 memo : PR816 (Full Load)

Page: 1

	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor	Remark
				dB	dBuV	dB	dB	
1	30.180	21.56	30.00	-8.44	28.22	18.58	0.74	25.98 Peak
2	41.970	20.85	30.00	-9.15	32.58	13.35	0.87	25.95 Peak
3	68.800	23.00	30.00	-7.00	41.54	6.22	1.11	25.87 Peak
4	72.110	22.44	30.00	-7.56	40.72	6.45	1.13	25.86 Peak
5	130.150	21.88	30.00	-8.12	34.56	11.50	1.55	25.73 Peak
6	153.600	23.22	30.00	-6.78	37.10	10.11	1.70	25.69 Peak
7	220.156	23.44	30.00	-6.56	37.75	9.23	2.06	25.60 Peak
8	286.770	17.91	37.00	-19.09	28.23	12.90	2.31	25.53 Peak



HomeTek Technology Inc.

Appendix A

PHOTOS OF TEST CONFIGURATION

PHOTO OF CONDUCTED POWER LINE TEST

Test Mode : Full Load , Model : PR816



Front View



Rear View

PHOTO OF RADIATED EMISSION TEST

Test Mode : Full Load , Model : PR816



Front View



Rear View



HomeTek Technology Inc.

Appendix B

PHOTOS OF EUT

PHOTO OF EUT

Model : PR816



Full View of EUT

Declaration of Conformity

Responsible Party Name :

Address :

Phone No :

Fax No :

Declares under our sole responsibility that the product

Product Name : Power Center

Model No. : PR8XXX

to which this declaration relates is in conformity with the following standards or other normative documents

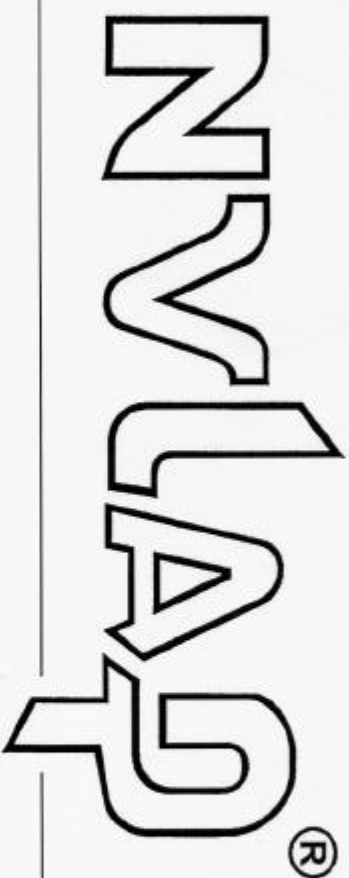
AS/NZS CISPR 22 (2004) : Electromagnetic Interference
– Limits and Methods of Measurement of Information Technology Equipment

Representative Person's Name : _____

Signature : _____

Date : _____

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:1999

NVLAP LAB CODE: 200331-0

HomeTek Technology Inc.

Taipei Shien 236
TAIWAN

*is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in
NIST Handbook 150:2001 and all requirements of ISO/IEC Guide 17025:1999.
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:*

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

2005-10-01 through 2006-09-30

Effective dates



For the National Institute of Standards and Technology

A handwritten signature in black ink, appearing to read "N. P. Mark".



SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999

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**ELECTROMAGNETIC COMPATIBILITY
AND TELECOMMUNICATIONS**

NVLAP LAB CODE 200331-0

NVLAP Code Designation / Description

Emissions Test Methods:

- 12/CIS14a EN 55014-1 (1993), A1 (1997), A2 (1999):
- 12/CIS14a2 BS EN 55014-1 (2001) with A1 and A2: Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
- 12/CIS14b1 AS/NZS CISPR 14-1 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
- 12/CIS14c CNS 13783-1: Electromagnetic Compatibility Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions
- 12/CIS14d IEC/CISPR 14-1 (2001) and A1 (2001): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions
- 12/CIS14x IEC/CISPR 14-1, Ed. 4 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
- 12/CIS22 IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
- 12/CIS22a IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)

2005-10-01 through 2006-09-30

Effective dates

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



**ELECTROMAGNETIC COMPATIBILITY
AND TELECOMMUNICATIONS**

NVLAP LAB CODE 200331-0

<i>NVLAP Code</i>	<i>Designation / Description</i>
12/CIS22b	CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
12/CIS22c	IEC/CISPR 22, Fourth Edition (2003-04) & EN 55022 (1998): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/FCC15b	ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators
12/T51a	AS/NZS CISPR 22 (2004): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/VCCIa	VCCI: Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2004.04

2005-10-01 through 2006-09-30

Effective dates

For the National Institute of Standards and Technology