

HomeTek Technology Inc.

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CERTIFICATE OF COMPLIANCE

EUT : Video to VGA Converter
MODEL NO. : AD001XXX
Receipt Date : 06/15/2006 Final Test Date: 06/26/2006
REPORT # : EB5F006
APPLICANT : SMART CABLING & TRANSMISSION CORP.
ADDRESS : 10F, No. 493, Chung-Cheng Rd.,
Hsin Tien City, Taipei 231, Taiwan, R. O. C.

Measurement procedure used:

**EMI: EN 55022 Class B (1998) + A1 (2000) + A2 (2003),
EN 61000-3-2 (2000), EN 61000-3-3 (1995) + A1 (2001)**

EMS: EN 55024 (1998) + A1 (2001) + A2 (2003):

**IEC 61000-4-2 (2001), IEC 61000-4-3 (2002), IEC 61000-4-4 (2004), IEC 61000-4-5 (2001),
IEC 61000-4-6 (2003) + A1 (2004), IEC 61000-4-8 (2001), IEC 61000-4-11 (2004)**

We hereby show that:

The measurements shown in this test report were made in accordance with the procedures given in **EUROPEAN COUNCIL DIRECTIVE 89/336/EEC**, and the energy emitted by the equipment was found to be within the limits applicable.

This test result 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.

APPROVED BY : 

ALAIN LIN / Supervisor



TABLE OF CONTENTS 1

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 EUT10

5 EUT OPERATING CONDITION15

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B15

7 RESULT OF CONDUCTED POWER LINE TEST15

8 CONDUCTED POWER LINE TEST DATA (PAGE 1)16

9 CONDUCTED POWER LINE TEST DATA (PAGE 2)17

10 CONDUCTED POWER LINE TEST DATA (PAGE 3)18

11 CONDUCTED POWER LINE TEST DATA (PAGE 4)19

RADIATED EMISSION TEST20

1 TEST INSTRUMENTS & FACILITIES20

2 TEST PROCEDURE21

3 TEST SETUP21

4 CONFIGURATION OF THE EUT23

5 EUT OPERATING CONDITION23

6 LIMIT OF RADIATED EMISSION CLASS B23

7 RESULT OF RADIATED EMISSION TEST23

8 RADIATED EMISSION TEST DATA (PAGE 1)24

9 RADIATED EMISSION TEST DATA (PAGE 2)25

HARMONICS TEST26

1 TEST INSTRUMENTS & FACILITIES26

2 TEST PROCEDURE26

3 TEST SETUP26

4 CONFIGURATION OF THE EUT26

5 OPERATION CONDITION OF EUT26

6 TEST DATA & LIMIT26

7 PHOTOS OF TEST CONFIGURATION PLEASE REFER TO APPENDIX A.26

8 HARMONICS TEST DATA (PAGE 1~2)27

VOLTAGE FLUCTUATIONS TEST29

1 TEST INSTRUMENTS & FACILITIES29

2 TEST PROCEDURE29

3 TEST SETUP29



4 CONFIGURATION OF THE EUT29

5 OPERATION CONDITION OF EUT29

6 TEST DATA & LIMIT29

7 PHOTOS OF TEST CONFIGURATION PLEASE REFER TO APPENDIX A.29

8 VOLTAGE FLUCTUATIONS TEST DATA (PAGE 1)30

ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD).....31

1 TEST INSTRUMENTS & FACILITIES31

2 TEST PROCEDURE31

3 TEST SETUP31

4 CONFIGURATION OF THE EUT32

5 EUT OPERATION CONDITION32

6 TEST CONDITION32

7 PERFORMANCE CRITERIA32

8 TEST RESULT33

RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST (RF)34

1 TEST INSTRUMENTS & FACILITIES34

2 TEST PROCEDURE34

3 TEST SETUP35

4 CONFIGURATION OF THE EUT36

5 OPERATION CONDITION OF EUT36

6 TEST CONDITION36

7 PERFORMANCE CRITERIA36

8 TEST RESULT37

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT).....38

1 TEST INSTRUMENTS & FACILITIES38

2 TEST PROCEDURE38

3 TEST SETUP38

4 CONFIGURATION OF THE EUT39

5 OPERATION CONDITION OF EUT39

6 TEST CONDITION39

7 PERFORMANCE CRITERIA39

8 TEST RESULT40

SURGE IMMUNITY TEST41

1 TEST INSTRUMENTS & FACILITIES41

2 TEST PROCEDURE41

3 TEST SETUP41

4 TEST LEVELS42

5 CONFIGURATION OF THE EUT42

6 EUT OPERATION CONDITION42



7 CONDITIONS DURING TESTING42

8 PERFORMANCE CRITERIA43

9 TEST RESULT43

IMMUNITY TEST TO CS CONDUCTED DISTURBANCE.....44

1 TEST INSTRUMENTS & FACILITIES44

2 TEST PROCEDURE44

3 TEST SETUP45

4 TEST LEVELS46

5 CONFIGURATION OF THE EUT46

6 EUT OPERATION CONDITION46

7 CONDITIONS DURING TESTING46

8 PERFORMANCE CRITERIA47

9 TEST RESULT47

POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST.....48

1 TEST INSTRUMENTS & FACILITIES48

2 TEST STANDARD48

3 TEST SETUP48

4 TEST LEVELS49

5 CONFIGURATION OF THE EUT49

6 OPERATION CONDITION OF EUT49

7 CONDITIONS DURING TESTING49

8 PERFORMANCE CRITERIA49

9 TEST RESULTS50

VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST.....51

1 TEST INSTRUMENTS & FACILITIES51

2 TEST PROCEDURE51

3 TEST SETUP51

4 TEST LEVELS52

5 CONFIGURATION OF THE EUT52

6 EUT OPERATION CONDITION52

7 CONDITIONS DURING TESTING52

8 PERFORMANCE CRITERIA53

9 TEST RESULT53

APPENDIX A

PHOTOS OF TEST CONFIGURATION

APPENDIX B

PHOTOS OF EUT

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 : Video to VGA Converter
- Model : AD001XXX
- Serial # : N/A

5.1 The difference between series of models AD001XXX are as shown below:

- (1) The first “X” represents different system input.
- (2) The second “X” represent different accessory.
- (3) The third “X” represent different color.

The PCB layout is similar. The worst case of EMC 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 resolution and three I/O port modes shown as below :

- (1) Composite Video Mode (1024 x 768 75Hz);
- (2) Composite Video Mode (800 x 600 75Hz);
- (3) S-Video Mode (1024 x 768 75Hz);
- (4) S-Video Mode (800 x 600 75Hz);
- (5) VGA Mode (1024 x 768 75Hz)

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 #	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

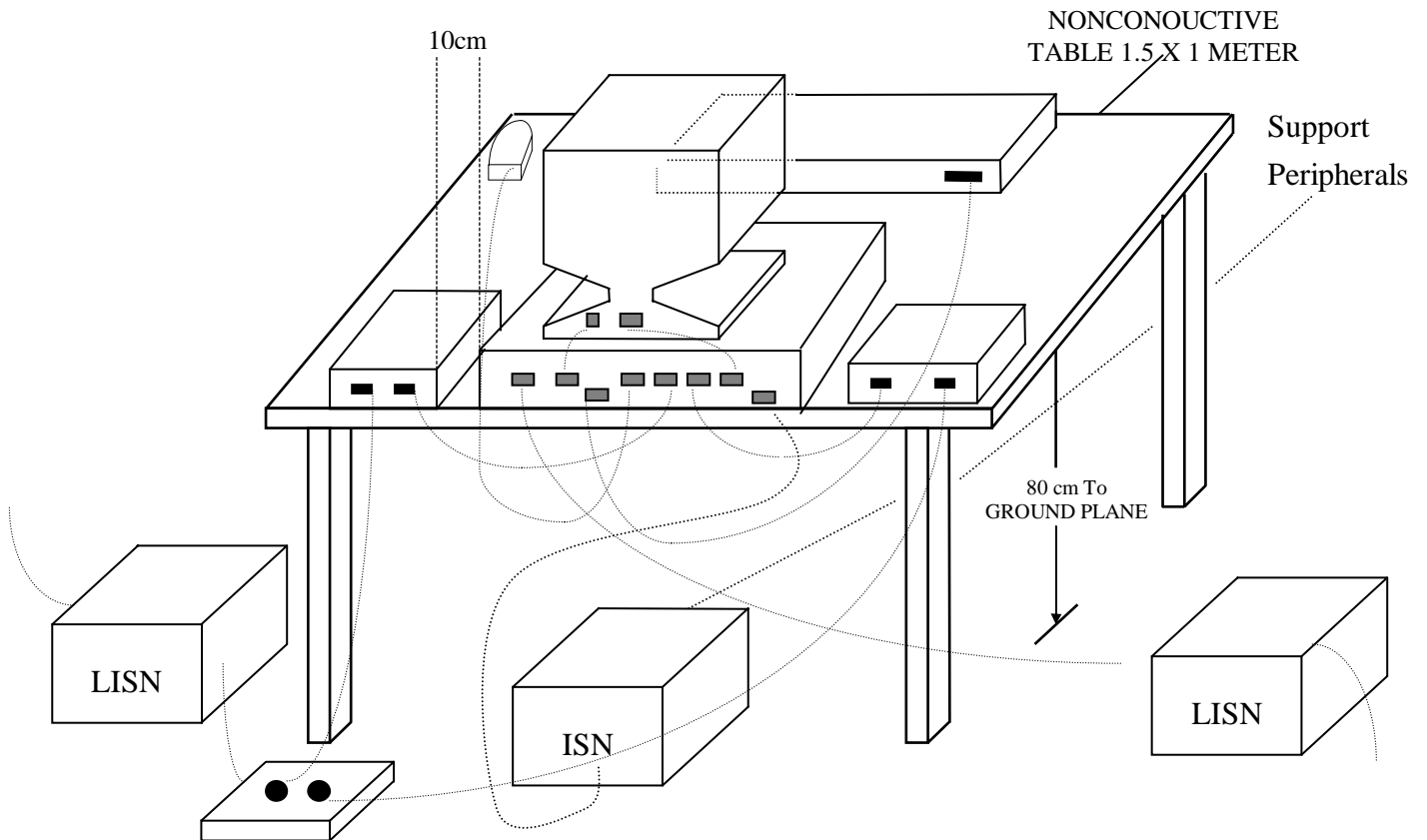
Note : Items 1 ~ 6 were calibrated within period of 1 year.

2 TEST PROCEDURE

- 2.1 The EUT was tested according to **EN55022 Class B**.
- 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 by **EN55022**.
- 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.

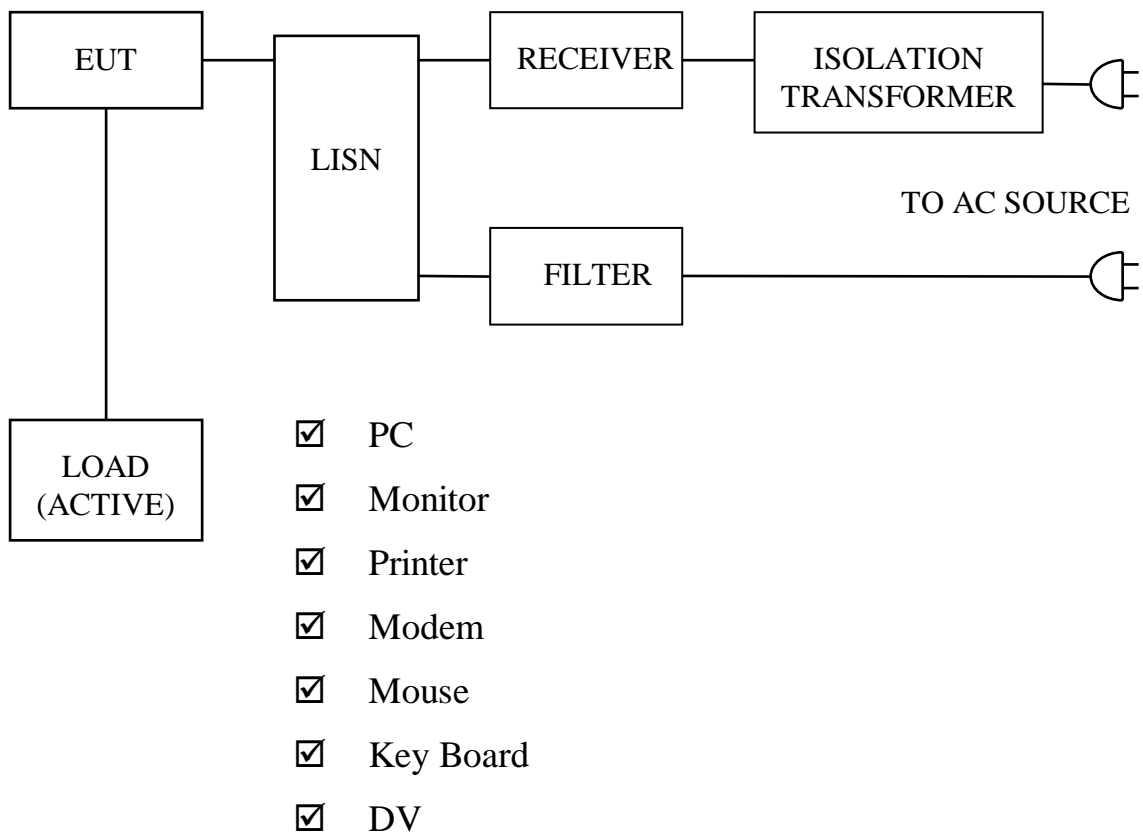
3 TEST SETUP

3.1 Typical : Setup Of Conducted Test



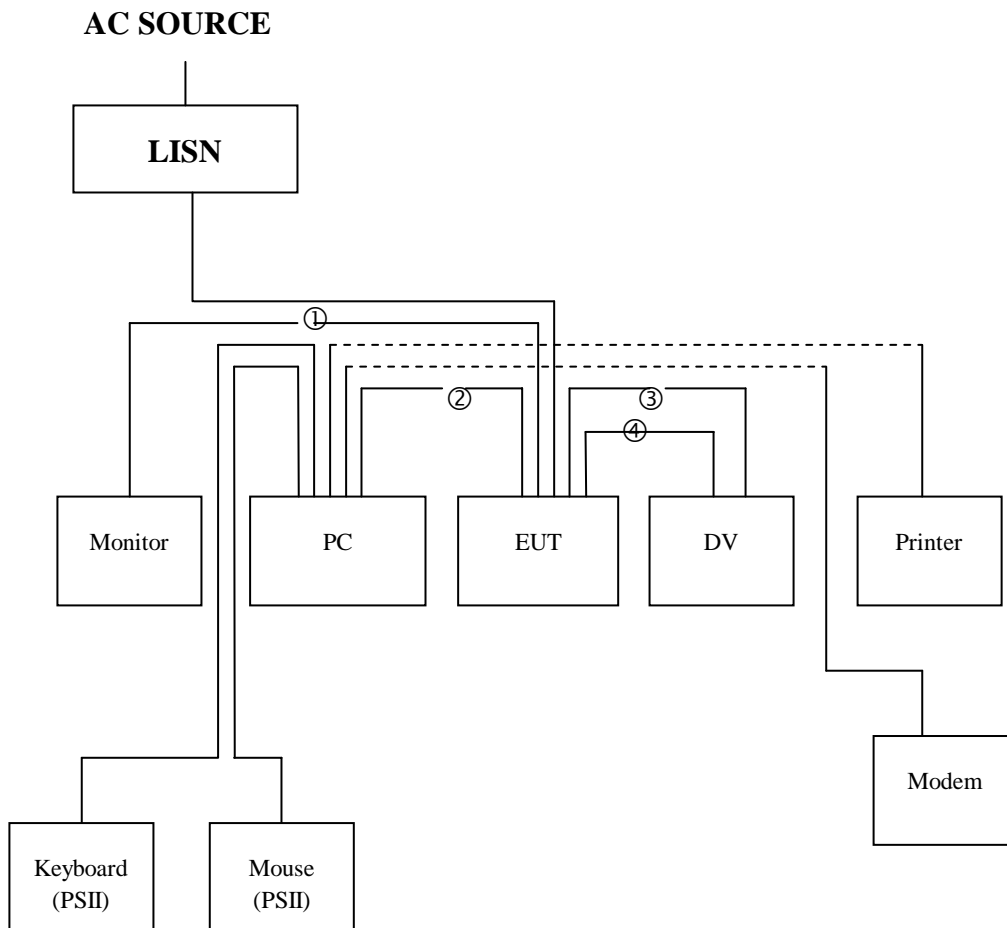
(Details for setup configuration, please refer to appendix A.)

3.2 Block Diagram Of Conducted Test



4 CONFIGURATION OF THE EUT

The EUT was configured according to **EN55022**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :



- ①, ② VGA Cable
- ③ S-Video Cable
- ④ Video Cable

Figure 1



4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production
Condition when received : Good Damage : _____
Device : Video to VGA Converter
Applicant : SMART CABLING & TRANSMISSION CORP.
Manufacturer : SMART CABLING & TRANSMISSION CORP.
Model Number : AD001XXX
Serial Number : N/A
FCC ID : N/A
VGA Port x 2 : Metal Type Connector
S-Video Port : Metal Type Connector
Composite Video Port : Metal Type Connector
Power Cord (AC) : 2 pin
Power Cord (DC) : Un-Shielded, 1.8 m, 2 pin
Power Supply Type : Switching Power Adapter

4.2 PERIPHERALS

Host Personal Computer

Manufacturer : DELL
Model Number : DHM
Serial Number : GCZP71S
FCC ID : FCC DoC
Data Cable : Shielded, 1.8 m, Connected to the VGA port
Power Cord : Un-Shielded, 1.8 m



Monitor

Manufacturer : SAMSUNG
Model Number : GH19BS
Serial Number : GH19H4JW103538B
FCC ID : FCC DoC
Data Cable : Shielded, 1.8 m, Connected to the VGA port
Power Cord : Un-Shielded, 1.8 m

Printer

Manufacturer : HP
Model Number : DJ400
Serial Number : MY77T1D0DD
FCC ID : B94C2642X
Data Cable : Shielded, 1.5 m, Connected to the Printer port
Power Cord & Adaptor : Un-Shielded, 1.8 m

Modem

Manufacturer : ACEEX
Model Number : 1414
Serial Number : 9013522
FCC ID : IFAXDM1414
Data Cable : Shielded, 1.5 m, Connected to the COM port
Power Cord & Adaptor : Un-Shielded, 1.8 m



Mouse (PSII)

Manufacturer : HP
Model Number : M-S69
Serial Number : 334684-002
FCC ID : FCC DoC
Data Cable : Shielded, 1.8 m, Connected to the PSII port
Power Cord : N/A

KeyBoard (PSII)

Manufacturer : DELL
Model Number : SK-8110
Serial Number : 31U-0512
FCC ID : FCC DoC
Data Cable : Shielded, 1.5 m, Connected to the PSII port
Power Cord : N/A

DV

Manufacturer : SONY
Model Number : DCR-PC110
Serial Number : 1158142
FCC ID : FCC DoC
Data Cable 1 : Shielded, 1.6 m, Connected to the S-Video port
Data Cable 2 : Shielded, 1.6 m, Connected to the Composite Video port
Power Cord : Un-Shielded, 1.8 m



Power Adapter

Manufacturer : Atech
Model Number : RHF-050120-1C
Serial Number : N/A
FCC ID : N/A
Data Cable : N/A
Power Cord (DC) : Un-Shielded, 1.8 m

4.3 REMARK : N/A

5 EUT OPERATING CONDITION

- 5.1 The oscillator frequencies of the EUT are 12 MHz and 14.318 MHz.
- 5.2 Configure the EUT according to the **EN 55022 Class B**.
- 5.3 The test configuration included PC, monitor, keyboard, mouse, printer, modem and DV.
- 5.4 Turn on all the power of EUT and peripheral.
- 5.5 During the test, DV sends color bar to the EUT through each input port individually.
Monitor display color bar.
(For Composite Video 1024 x 768 75Hz, Composite Video 800 x 600 75Hz,
S-Video 1024 x 768 75Hz, S-Video 800 x 600 75Hz).
- 5.6 During the test, the PC sends “H” patterns the EUT through each input port individually.
Monitor display “H” character. (For VGA 1024 x 768 75Hz).
- 5.7 Measure the maximum emission noise.
- 5.8 The photos of conducted test configuration, please refer to appendix A.**

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B

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

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 : 62 % RH.
- 7.4 Deviations from the test standards and rules : None.
- 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)

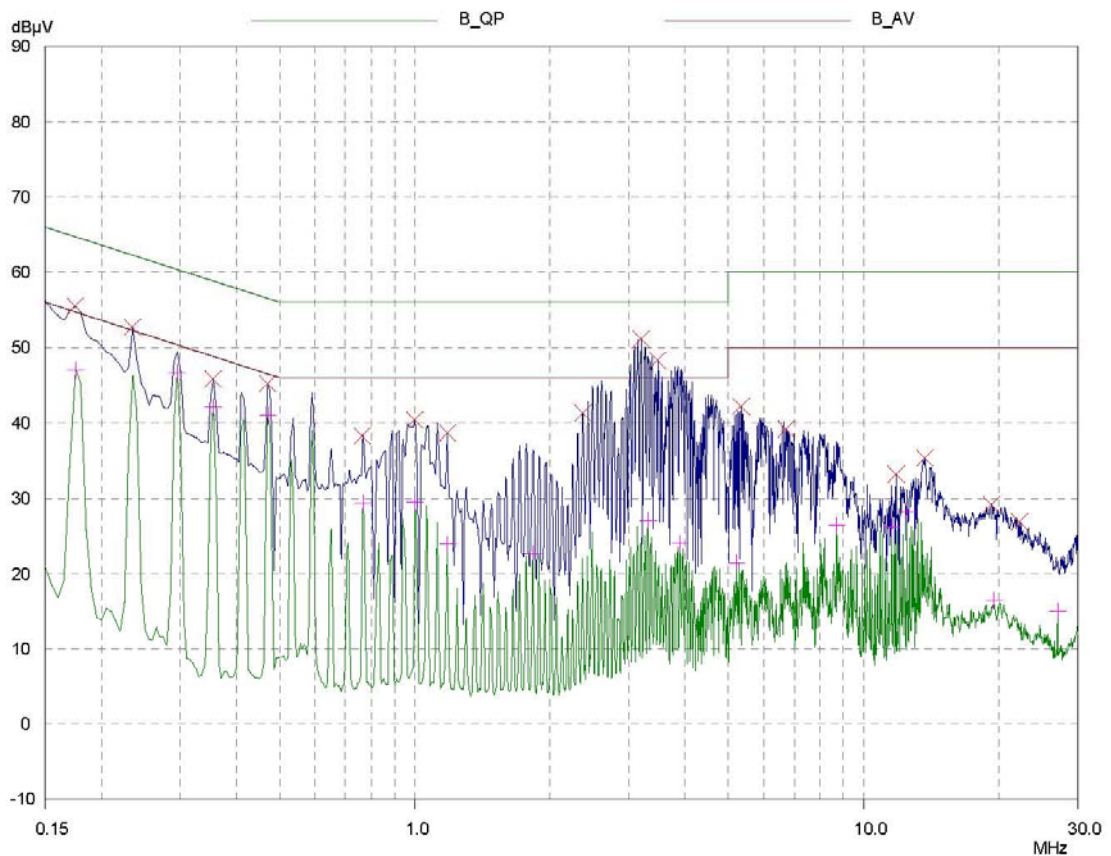
HomeTek EMC LAB. TEL :886-2-22608375

24 Jun 2006 16:04

CONDUCTED EMISSIONS

EUT: Video to VGA Converter
 Manuf: 5F006
 Op Cond: LINE 1
 Operator: Makoto
 Test Spec: FOR EN55022 CLASS B
 Comment: 230V/50Hz
 AD001H (S-Video Mode 1024*768 75Hz)
 Result File: 5f00611c.dat : S-VIDEO Mode 1024*768 75Hz

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

24 Jun 2006 16:04

CONDUCTED EMISSIONS

EUT: Video to VGA Converter
 Manuf: 5F006
 Op Cond: LINE 1
 Operator: Makoto
 Test Spec: FOR EN55022 CLASS B
 Comment: 230V/50Hz
 AD001H (S-Video Mode 1024*768 75Hz)
 Result File: 5f00611c.dat : S-VIDEO Mode 1024*768 75Hz

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
0.175	55.46	64.72	9.26
0.235	52.67	62.27	9.60
0.355	45.79	58.84	13.05
0.47	45.25	56.51	11.26
0.765	38.31	56.00	17.69
1.0	40.45	56.00	15.55
1.18	38.71	56.00	17.29
2.37	41.30	56.00	14.70
3.2	51.18	56.00	4.82
3.47	48.30	56.00	7.70
5.33	42.21	60.00	17.79
6.7	39.19	60.00	20.81
11.81	33.26	60.00	26.74
13.69	35.41	60.00	24.59
19.24	29.23	60.00	30.77
22.2	26.92	60.00	33.08

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.175	47.00	54.72	7.72
0.295	46.68	50.38	3.70
0.355	42.13	48.84	6.71
0.47	41.01	46.51	5.50
0.765	29.41	46.00	16.59
1.0	29.51	46.00	16.49
1.18	23.91	46.00	22.09
1.83	22.71	46.00	23.29
3.31	27.08	46.00	18.92
3.89	24.07	46.00	21.93
5.2	21.44	50.00	28.56
8.69	26.38	50.00	23.62
11.54	26.21	50.00	23.79
12.49	28.24	50.00	21.76
19.49	16.48	50.00	33.52
27.0	15.03	50.00	34.97

* limit exceeded

10 CONDUCTED POWER LINE TEST DATA (PAGE 3)

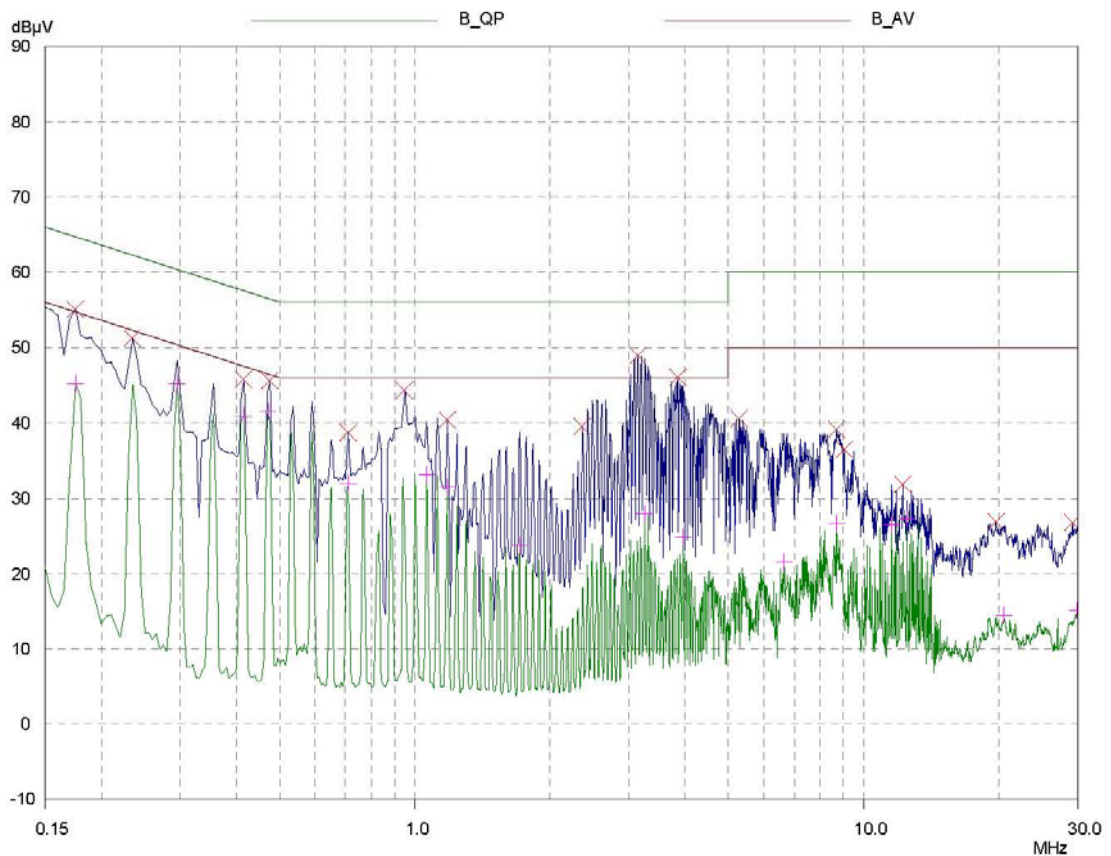
HomeTek EMC LAB. TEL :886-2-22608375

24 Jun 2006 16:10

CONDUCTED EMISSIONS

EUT: Video to VGA Converter
 Manuf: 5F006
 Op Cond: LINE 2
 Operator: Makoto
 Test Spec: FOR EN55022 CLASS B
 Comment: 230V/50Hz
 AD001H (S-Video Mode 1024*768 75Hz)
 Result File: 5f00621c.dat : S-VIDEO Mode 1024*768 75Hz

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

24 Jun 2006 16:10

CONDUCTED EMISSIONS

EUT: Video to VGA Converter
 Manuf: 5F006
 Op Cond: LINE 2
 Operator: Makoto
 Test Spec: FOR EN55022 CLASS B
 Comment: 230V/50Hz
 AD001H (S-Video Mode 1024*768 75Hz)
 Result File: 5f00621c.dat : S-VIDEO Mode 1024*768 75Hz

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
0.175	55.14	64.72	9.58
0.235	51.25	62.27	11.02
0.415	45.73	57.55	11.82
0.475	45.59	56.43	10.84
0.71	38.74	56.00	17.26
0.95	44.35	56.00	11.65
1.18	40.41	56.00	15.59
2.36	39.51	56.00	16.49
3.14	48.95	56.00	7.05
3.85	46.03	56.00	9.97
5.27	40.60	60.00	19.40
8.69	39.16	60.00	20.84
9.04	36.49	60.00	23.51
12.22	31.88	60.00	28.12
19.71	26.94	60.00	33.06
29.19	26.86	60.00	33.14

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.175	45.20	54.72	9.52
0.295	45.21	50.38	5.17
0.415	40.94	47.55	6.61
0.47	41.54	46.51	4.97
0.71	31.97	46.00	14.03
1.06	33.17	46.00	12.83
1.18	31.59	46.00	14.41
1.71	23.74	46.00	22.26
3.25	28.02	46.00	17.98
3.96	24.88	46.00	21.12
6.63	21.52	50.00	28.48
8.69	26.63	50.00	23.37
11.54	26.53	50.00	23.47
12.49	27.23	50.00	22.77
20.5	14.44	50.00	35.56
29.91	15.11	50.00	34.89

* 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

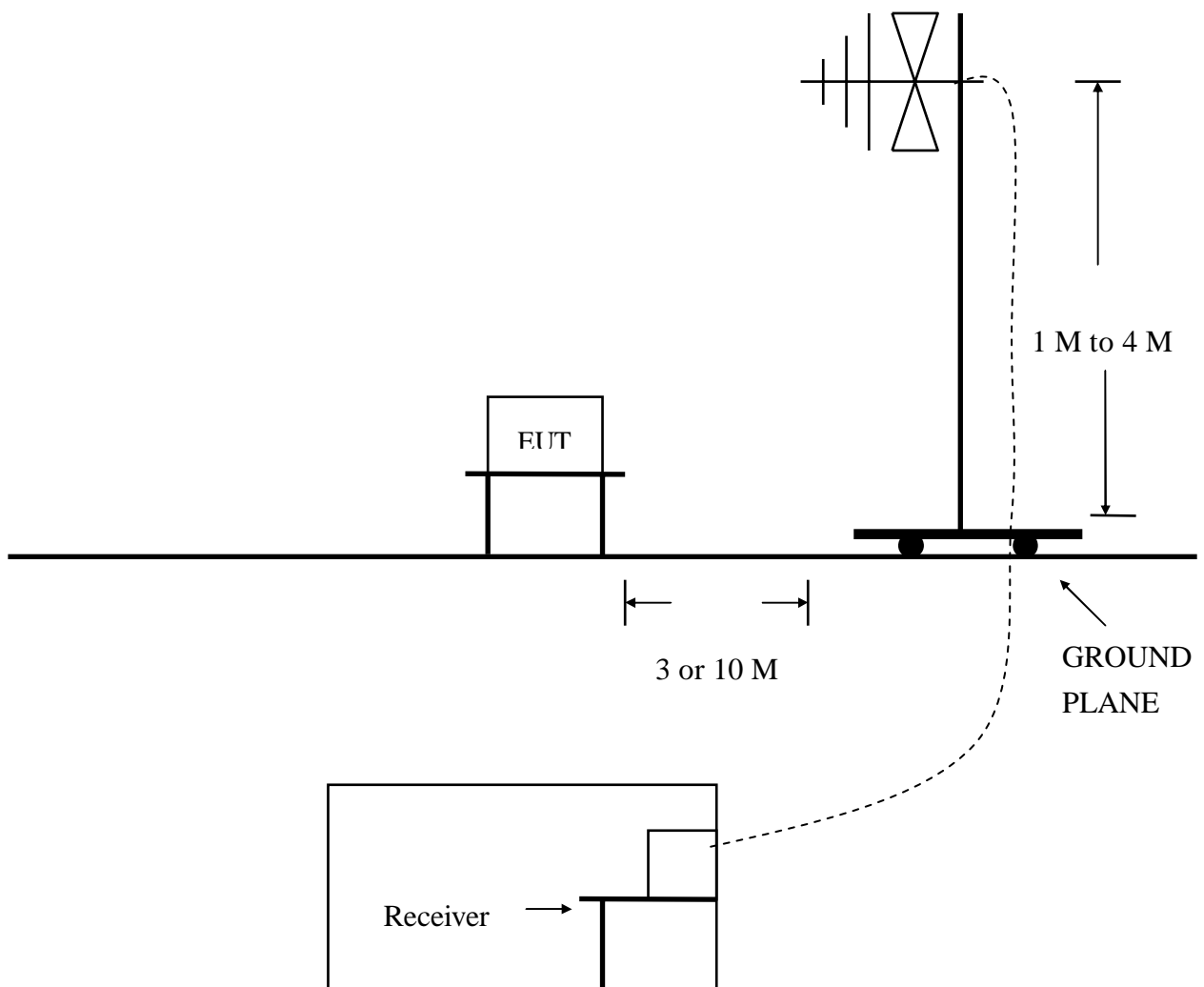
Note : Items 1 ~ 9 were calibrated within period of 1 year.

2 TEST PROCEDURE

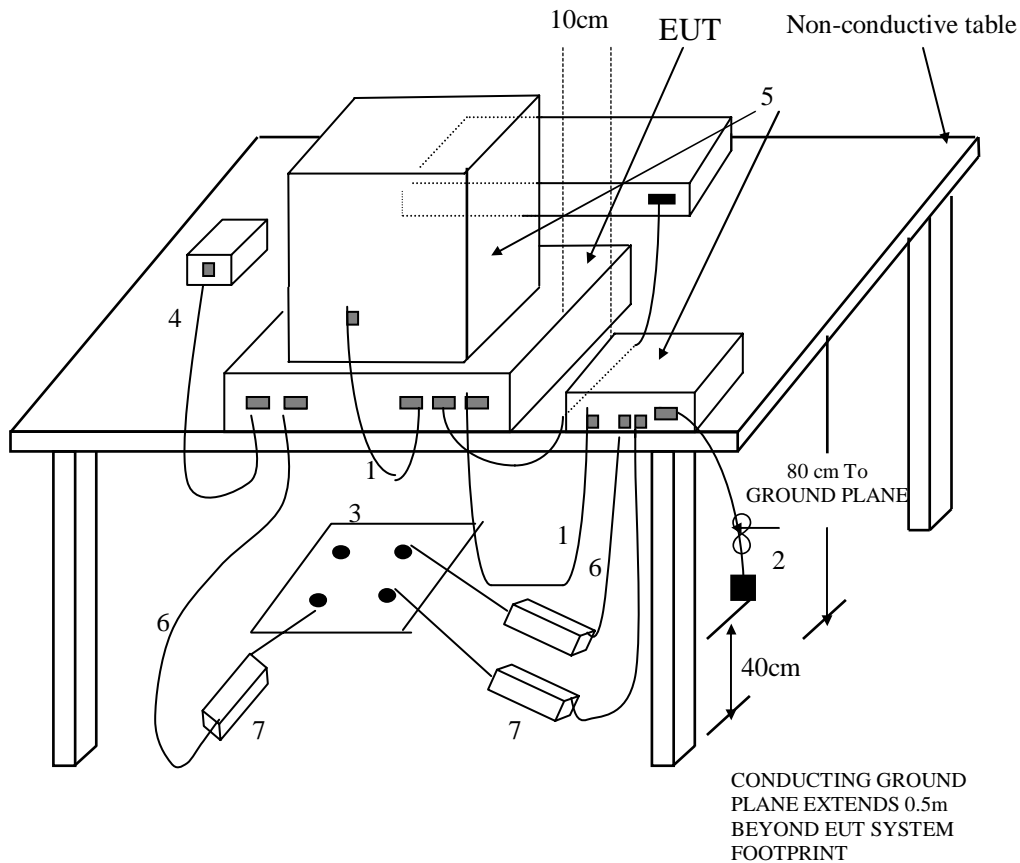
- 2.1 The EUT was test according to **EN55022**.
- 2.2 The radiated test was performed at HomeTek Lab's Open Site III.
- 2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

3 TEST SETUP

3.1 TEST SETUP OF OPEN SITE.



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



(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 m 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, mice, 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 Measurement

4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

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

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

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 : 59 % RH.

7.5 Deviation form the test standards and rules : None.

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)

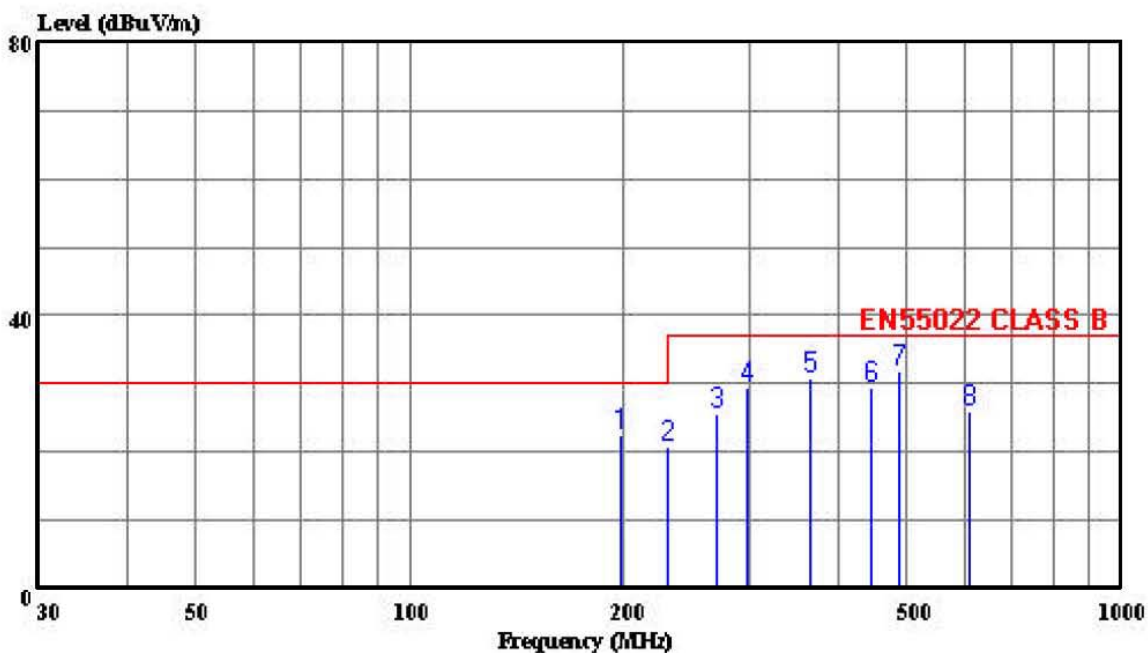


HomeTek Technology Inc.

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

Data#: 2 File#: 5f006.emi

Date: 2006-06-26 Time: 11:53:04



Trace:

Ref Trace:

Condition: EN55022 CLASS B 10m CHASE 2614 060506 HORIZONTAL
eut : Video toVGA Converter
power: 230V/50Hz
memo : AD001H (S-VIDEO MODE 800x600 75Hz)

Page: 1

	Limit	Over	ReadAntenna	Cable	Preamp			
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	
1	198.021	22.57	30.00	-7.43	37.14	9.09	1.98	25.63 QP
2	229.513	20.69	30.00	-9.31	33.98	10.20	2.10	25.59 Peak
3	269.980	25.75	37.00	-11.25	36.42	12.62	2.25	25.55 Peak
4	297.047	29.34	37.00	-7.66	39.45	13.06	2.35	25.52 Peak
5	366.040	30.72	37.00	-6.28	38.60	14.79	2.71	25.39 Peak
6	445.527	29.42	37.00	-7.58	34.97	16.52	3.10	25.16 Peak
7	488.019	31.79	37.00	-5.21	36.33	17.18	3.29	25.01 QP
8	609.280	26.04	37.00	-10.96	28.24	18.60	3.71	24.51 Peak

9 RADIATED EMISSION TEST DATA (PAGE 2)

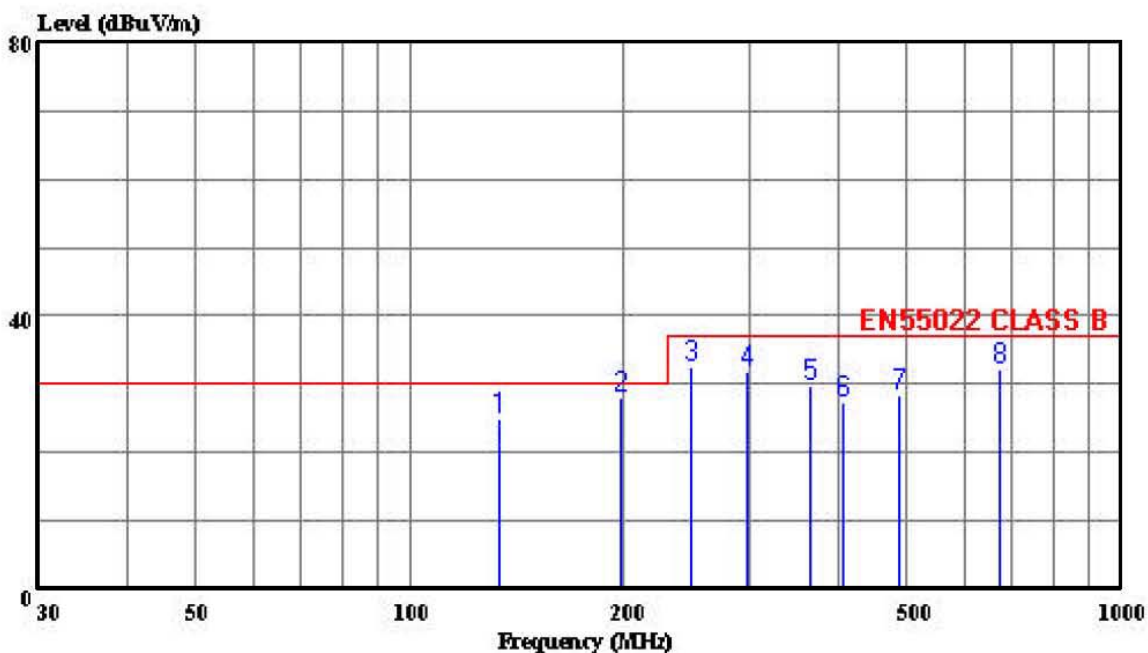


HomeTek Technology Inc.

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

Data#: 1 File#: 5f006.emi

Date: 2006-06-26 Time: 10:15:41



Trace:

Ref Trace:

Condition: EN55022 CLASS B 10m CHASE 2614 060506 VERTICAL
 out : Video to VGA Converter
 power: 230V/50Hz
 memo : AD001H (S-VIDEO MODE 800x600 75Hz)

Page: 1

	Limit	Over	ReadAntenna	Cable	Preamp			
Freq	Level	Line	Limit	Level	Factor	Loss	Factor Remark	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	
1	133.500	25.07	30.00	-4.93	37.76	11.46	1.58	25.72 Peak
2	198.033	28.14	30.00	-1.86	42.71	9.09	1.98	25.63 QP
3	247.533	32.60	37.00	-4.40	43.92	12.09	2.16	25.57 Peak
4	297.027	31.80	37.00	-5.20	41.91	13.06	2.35	25.52 Peak
5	366.026	29.71	37.00	-7.29	37.59	14.79	2.71	25.39 QP
6	405.551	27.34	37.00	-9.66	34.01	15.72	2.92	25.31 Peak
7	488.062	28.28	37.00	-8.72	32.82	17.18	3.29	25.01 Peak
8	675.253	32.29	37.00	-4.71	33.43	18.90	4.07	24.11 Peak

HARMONICS TEST

1 TEST INSTRUMENTS & FACILITIES

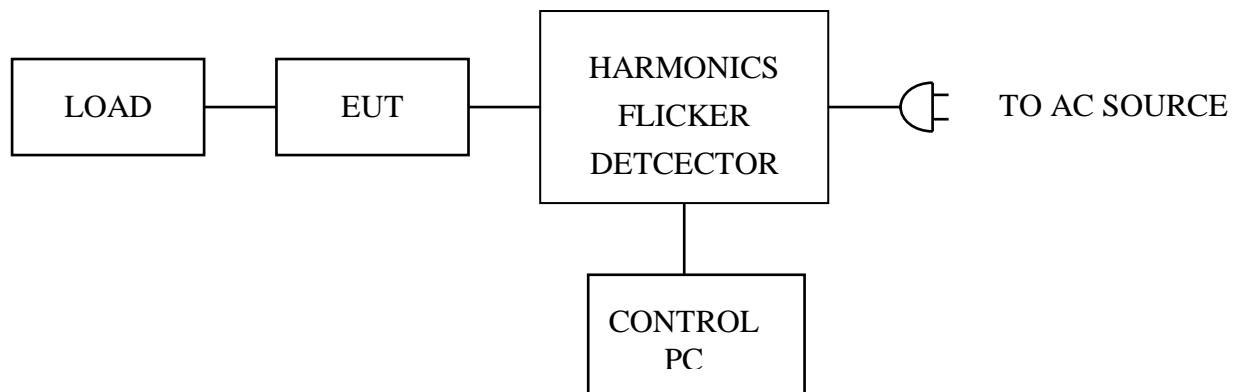
Instruments/ facilities	Manufacturer	Model # Serial #	Date of Cal.
HARMONICS/ VOLTAGE FLUCTUATIONS TEST	EMC-PARTNER	HAR1000-1P	OCT/2004
CONTROL PC	KB TECH	KB P586/133	N/A

Note : Item 1 were calibrated with two years and verified before testing.

2 TEST PROCEDURE

According to EN 61000-3-2 (2000) Class A

3 TEST SETUP



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

4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

5 OPERATION CONDITION OF EUT

Same as “Conducted Power Line test”, section 5

6 TEST DATA & LIMIT

6.1 Temperature : 25 °C

6.2 Humidity : 61 % RH

7 Photos of test configuration please refer to appendix A.



8 HARMONICS TEST DATA (PAGE 1~2)

EMC PARTNER AG, SWITZERLAND

Date : 2006/6/26 PM 06:00:1 V4.14

Operator : ALBERT
 Unit : Video to VGA Converter
 Serialnumber : AD001H
 Remarks : 5F006

Urms = 229.9V Freq = 49.987 Range: 0.5 A
 Irms = 0.044A Ipk = 0.212A cf = 4.807
 P = 4.651W S = 10.16VA pf = 0.458
 THDi = 87.9 % THDu = 0.10 % Class A

Test - Time : 15min (100 %)

Test completed, Result: PASSED

Order	Freq. [Hz]	Imax [A]	Imax%L [%]	Limit [A]	Status
1	50	0.0222			
2	100	0.0003	0.0254	1.0800	
3	150	0.0155	0.6740	2.3000	
4	200	0.0003	0.0639	0.4300	
5	250	0.0159	1.3947	1.1400	
6	300	0.0002	0.0814	0.3000	
7	350	0.0149	1.9341	0.7700	
8	400	0.0002	0.0929	0.2300	
9	450	0.0142	3.5553	0.4000	
10	500	0.0002	0.0995	0.1840	
11	550	0.0132	4.0043	0.3300	
12	600	0.0002	0.0995	0.1533	
13	650	0.0121	5.7402	0.2100	
14	700	0.0002	0.1161	0.1314	
15	750	0.0109	7.2835	0.1500	
16	800	0.0001	0.0796	0.1150	
17	850	0.0095	7.1940	0.1324	
18	900	0.0001	0.0597	0.1022	
19	950	0.0084	7.0869	0.1184	
20	1000	0.0001	0.0663	0.0920	
21	1050	0.0069	6.4657	0.1071	
22	1100	0.0001	0.0730	0.0836	
23	1150	0.0058	5.9584	0.0978	
24	1200	0.0001	0.0796	0.0767	



HomeTek Technology Inc.

25	1250	0.0045	5.0184	0.0900
26	1300	0.0001	0.0862	0.0708
27	1350	0.0036	4.2847	0.0833
28	1400	0.0001	0.0929	0.0657
29	1450	0.0025	3.2647	0.0776
30	1500	0.0001	0.1493	0.0613
31	1550	0.0019	2.5648	0.0726
32	1600	0.0001	0.1061	0.0575
33	1650	0.0013	1.9246	0.0682
34	1700	0.0001	0.1692	0.0541
35	1750	0.0011	1.7090	0.0643
36	1800	0.0000	0.0597	0.0511
37	1850	0.0012	2.0074	0.0608
38	1900	0.0001	0.1261	0.0484
39	1950	0.0013	2.2217	0.0577
40	2000	0.0000	0.0663	0.0460

VOLTAGE FLUCTUATIONS TEST

1 TEST INSTRUMENTS & FACILITIES

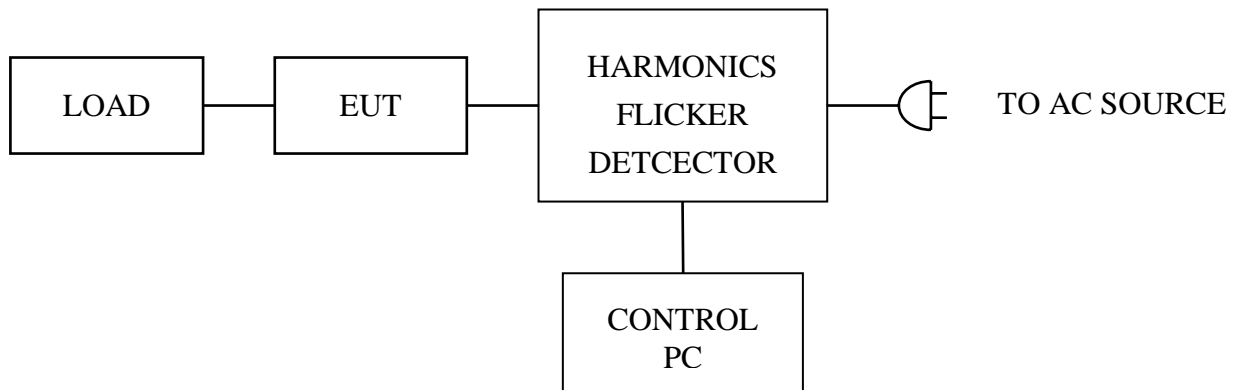
Instruments/ facilities	Manufacturer	Model # Serial #	Date of Cal.
HARMONICS/ VOLTAGE FLUCTUATIONS TEST	EMC-PARTNER	HAR1000-1P	OCT/2004
CONTROL PC	KB TECH	KB P586/133	N/A

Note : Item 1 were calibrated with two years and verified before testing.

2 TEST PROCEDURE

According to **EN 61000-3-3 (1995) + A1 (2001)**

3 TEST SETUP



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

4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

5 OPERATION CONDITION OF EUT

Same as “Conducted Power Line test”, section 5

6 TEST DATA & LIMIT

6.1 Temperature : 25 °C

6.2 Humidity : 61 % RH

7 Photos of test configuration please refer to appendix A.



8 VOLTAGE FLUCTUATIONS TEST DATA (PAGE 1)

EMC PARTNER AG, SWITZERLAND

Date : 2006/6/26 PM 06:20:5 V4.14

Operator : ALBERT
 Unit : Video to VGA Converter
 Serialnumber : AD001H
 Remarks : 5F006

Urms = 229.9V Freq = 49.987 Range: 0.5 A
 Irms = 0.042A Ipk = 0.206A cf = 4.873
 P = 4.454W S = 9.711VA pf = 0.459

Test - Time : 1 x 15min = 15min (100 %)

LIN (Line Impedance Network) : L: 0.24ohm +j0.15ohm N: 0.16ohm +j0.10ohm

Limits : Plt : 0.65 Pst : 1.00
 dmax : 4.00 % dc : 3.30 %
 dtLim: 3.30 % dt>Lim: 500ms

Test completed, Result: PASSED

Plt = 0.072

Pst dmax
 [%]
 1 0.072 0.000

4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

5 EUT OPERATION CONDITION

Same as “Conducted Power Line test”, section 5

6 TEST CONDITION

6.1 Test Level :

(A) $\pm 2, 4, 8$ KV for air discharge.

(B) $\pm 2, 4$ KV for contact discharge.

6.2 Number of test : 10 Discharges / Test point / Polarity / Level

Particular requirements : at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points.

6.3 Time between test : 1 sec.

6.4 Temperature : 24 °C

6.5 Humidity : 50 % RH.

7 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8 TEST RESULT

Test Point	Air Discharge	Contact Discharge	Performance Criteria	Result
HCP	---	$\pm 2, 4KV$	B	PASSED
VCP	---	$\pm 2, 4KV$	B	PASSED
CASE	$\pm 2, 4, 8KV$	$\pm 2, 4KV$	B	PASSED
I/O PORTS	$\pm 2, 4, 8KV$	$\pm 2, 4KV$	B	PASSED
LED	$\pm 2, 4, 8KV$	$\pm 2, 4KV$	B	PASSED
SCREWS	$\pm 2, 4, 8KV$	$\pm 2, 4KV$	B	PASSED
DC SOCKET	$\pm 2, 4, 8KV$	$\pm 2, 4KV$	B	PASSED
BUTTON	$\pm 2, 4, 8KV$	$\pm 2, 4KV$	B	PASSED

※ The screen display snowflake, during the test. After the test, EUT resume automatically.

9 Photos of test configuration please refer to appendix A.

RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST (RS)

1 TEST INSTRUMENTS & FACILITIES

Item	Instruments Facilities	Manufacturer	Model # Serial #	Data Of Cal.
1	SIGNAL GENERATOR	ROHDE & SCHWARZ	SMY02 845181/025	MAR/2006
2	AMPLIFIER	AMPLIFIER RESEARCH	100W1000M1A	N/A
3	FIELD SENSOR	AMPLIFIER RESEARCH	FP2000	AUG/2004
4	FIELD MONITOR	AMPLIFIER RESEARCH	FM2000	AUG/2004
5	RF VOLTMETER	BOONTON	9200C 361701AA	MAR/2006
6	RF PROBE	BOONTON	952001B 37082	MAR/2006
7	DIRECTION COUPLER	AMPLIFIER RESEARCH	DC6180 20521	N/A
8	ANTENNA	EMCO	3142B S/N: 1789	N/A
9	CONTROL PC	KB TECH	KB P586/133	--

Note : Items 3 ~ 4 were calibrated with two years and verified before testing.

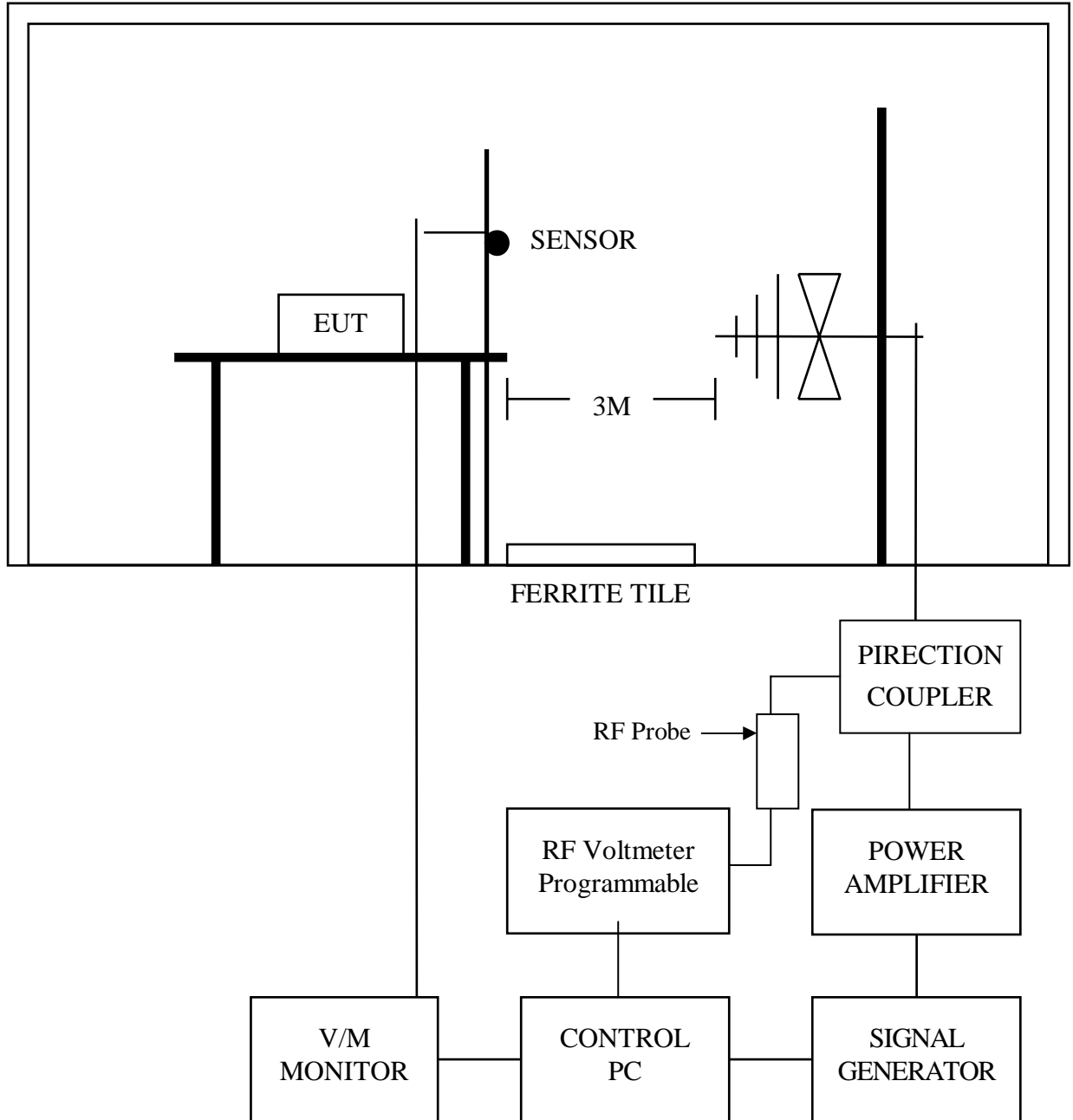
2 TEST PROCEDURE

According to **IEC 61000-4-3 (2002)**

According to **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP

FERRITE TILE



3.1 Chamber Size :

12M x 5M x 5M

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

4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

5 OPERATION CONDITION OF EUT

Same as “Conducted Power Line test”, section 5

6 TEST CONDITION

6.1 Frequency Range : 80 MHz ~ 1000 MHz

(Frequency Range : 1.4 GHz ~ 2.0 GHz is not applicable for EN55024:1998+A1:2001+A2:2003)

6.2 Field Strength : 3 V / M (1KHz 80% Modulation)

6.3 Frequency Step : 1 %, 3 sec. / each step size

6.4 Antenna Polarity : HORIZONTAL & VERTICAL

6.5 The four sides of EUT are tested
(FRONT, REAR, RIGHT, LEFT)

6.6 Temperature : 26 °C

6.7 Humidity : 60 % RH

7 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8 TEST RESULT

ANT SIDE	HORIZONTAL	VERTICAL	RESULT
FRONT	A	A	PASSED
REAR	A	A	PASSED
RIGHT	A	A	PASSED
LEFT	A	A	PASSED

9 Photos of test configuration please refer to appendix A.

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

1 TEST INSTRUMENTS & FACILITIES

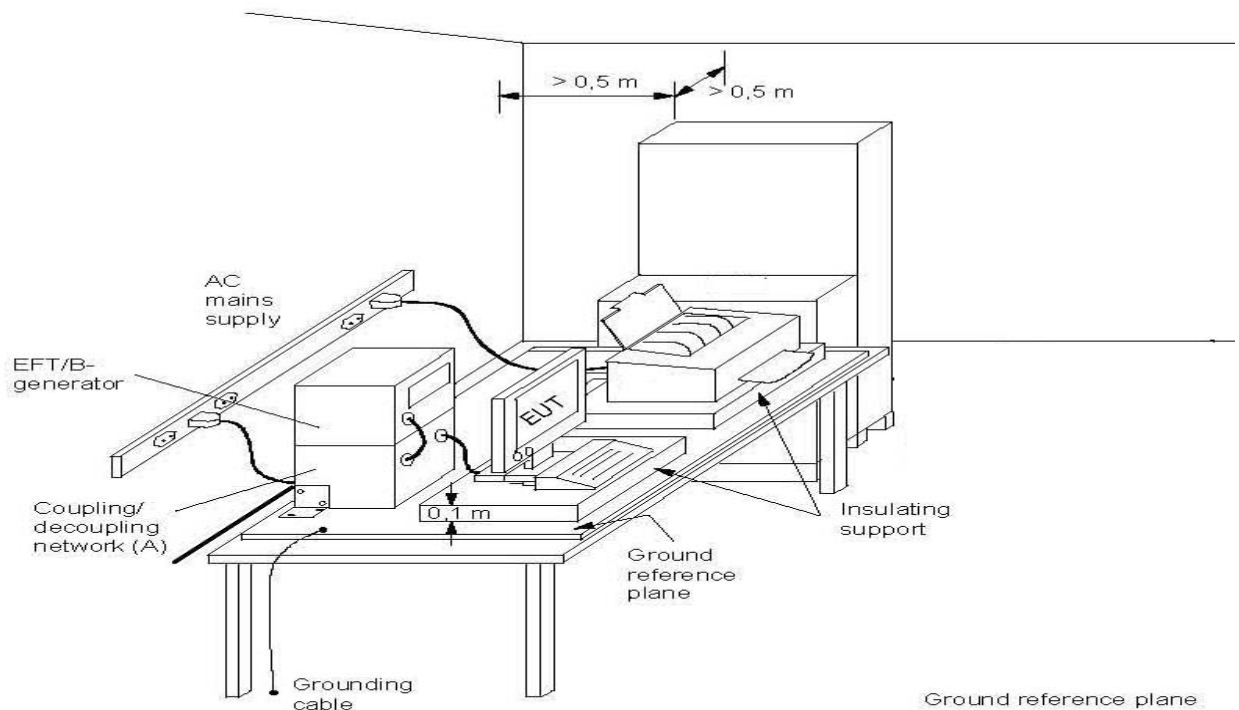
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
BURST-TESTER	HAEFELY	PEFT/JUNIOR	FEB/2006
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

According to **IEC 61000-4-4 (2004)**

According to **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



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

Note: length between clamp and the EUT to be tested (should be $0.5\text{ m} \pm 0.05\text{ m}$)

(A) location for supply line coupling

(B) location for signal line coupling

4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

5 OPERATION CONDITION OF EUT

Same as “Conducted Power Line test”, section 5

6 TEST CONDITION

6.1 Pulse Rise time & Duration : 5 nS / 50 nS

6.2 Pulse Repetition : 5 kHz

6.3 Polarity : POSITIVE / NEGATIVE

6.4 Test Voltage of Power Line : $\pm 0.5\text{KV}$, $\pm 1\text{KV}$

6.5 Coupling of power line :
L, N, L+N

6.6 Temperature : 25 °C

6.7 Humidity : 60 % RH

7 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8 TEST RESULT

Power Line :

TEST VOLTAGE	L	N	L+N
±0.5KV	A	A	A
±1KV	A	A	A

8.1 Model : AD001H

8.2 Test Mode : S-Video Mode (1024 x 768 75Hz)

8.3 Final Result : PASSED

8.4 Remark :

9 Photos of test configuration please refer to appendix A.

SURGE IMMUNITY TEST

1 TEST INSTRUMENTS & FACILITIES

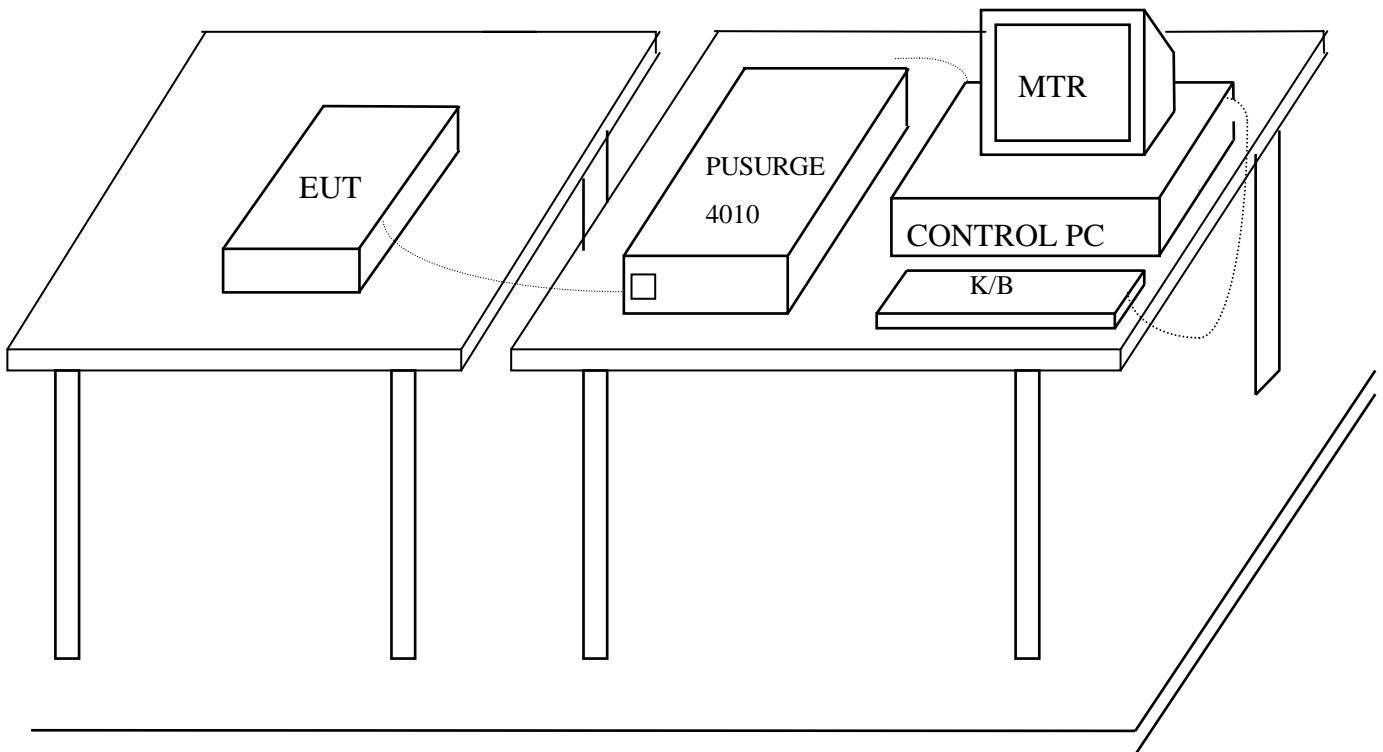
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
SURGER-TESTER	HAEFELY	PSURGE 4010 583334-38	FEB/2006
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

According To **IEC 61000-4-5 (2001)**

According To **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



GROUND PLANE

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

4 TEST LEVELS

- Input and Output AC Power Ports.
- DC Input and DC Output Power Ports.

Environmental Phenomena	Test Specification		Units	Performance Criteria
	AC	DC		
Surges	1.2 / 50 (8/20)		Tr /Th us	
Line to Line	±1	±0.5	KV (Charge Voltage)	B

5 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

6 EUT OPERATION CONDITION

Same as “Conducted Power Line test”, section 5

7 CONDITIONS DURING TESTING

7.1 Coupling of power line :

(A) Line to Line ±1KV (AC) or ±0.5KV (DC)

7.2 Polarity : POSITIVE / NEGATIVE

7.3 Phase shifting in a range between 0° to 360°

7.4 Repletion rate at least 1 per min

7.5 Temperature : 25 °C (15°C ~ 35°C)

Humidity : 58 % RH.(10 % ~ 75%)

8 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

9 TEST RESULT

Environmental Phenomena	Test Specification	Units	Performance
Line to Line	±1	KV (Charge Voltage)	A
Line to Earth	±2	KV (Charge Voltage)	A

9.1 Model : AD001H

9.2 Test Mode : S-Video Mode (1024 x 768 75Hz)

9.3 Final Result : PASSED

9.4 Remark :

10 Photos of test configuration please refer to appendix A.

IMMUNITY TEST TO CS CONDUCTED DISTURBANCE

1 TEST INSTRUMENTS & FACILITIES

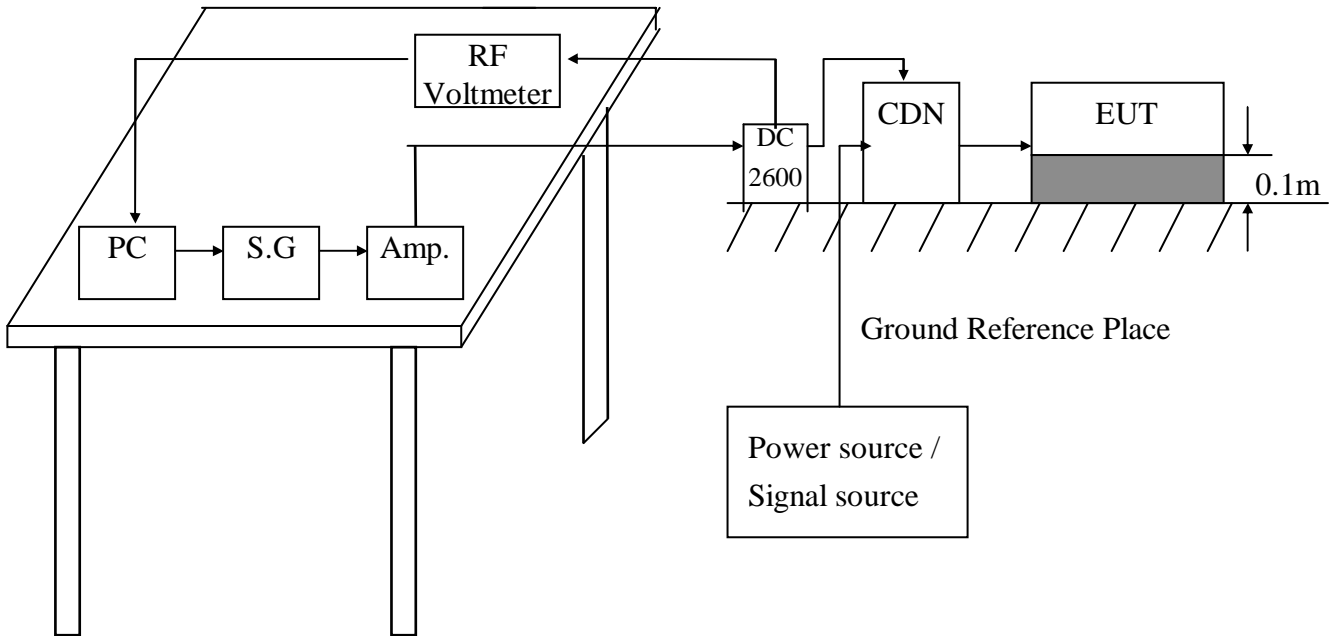
Instruments/ Facilities	Manufacturer	Model # Serial #	Date Of Cal.
SIGNAL GENERATOR	ROHDE & SCHWARZ	SMY02 845181/025	MAR/2006
AMPLIFIER	AMPLIFIER RESEARCH	75A250 25680	N/A
RF VOLTMETER	BOONTON	9200C 361701AA	MAR/2006
RF PROBE	BOONTON	952001B 37082	MAR/2006
DIRECTION COUPLER	AMPLIFIER RESEARCH	DC2600 20508	N/A
COUPLING DECOUPLING NETWORK	FCC	FCC-801-M3-25A 9993	MAR/2006
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

According To **IEC 61000-4-6 (2003) + A1 (2004)**

According To **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



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

4 TEST LEVELS

- Ports for signal lines and control lines.
- DC input and DC output power ports.
- Input and Output AC Power Ports.
- Functional earth Ports.

Environmental	Test Specification	Units	Performance
Radio-frequency	0.15 - 80	MHz	
Common mode	3	V	A
	80	% AM (1KHz)	

5 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

6 EUT OPERATION CONDITION

Same as “Conducted Power Line test”, section 5

7 CONDITIONS DURING TESTING

7.1 The EUT tested type :

- Single unit
- Multiple unit

7.2 Dwell time : < 1%

7.3 Temperature : 25 °C (15°C ~ 35°C)

Humidity : 58 % RH.(10 % ~ 75%)

8 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

9 TEST RESULT

TEST Specification	Unit	Performance Criteria
0.15 - 80	MHz	A
3	V	
80	% AM (1KHz)	

9.1 Model : AD001H

9.2 Test Mode : S-Video Mode (1024 x 768 75Hz)

9.3 Final Result : PASSED

9.4 Remark :

10 Photos of test configuration please refer to appendix A.

POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

1 TEST INSTRUMENTS & FACILITIES

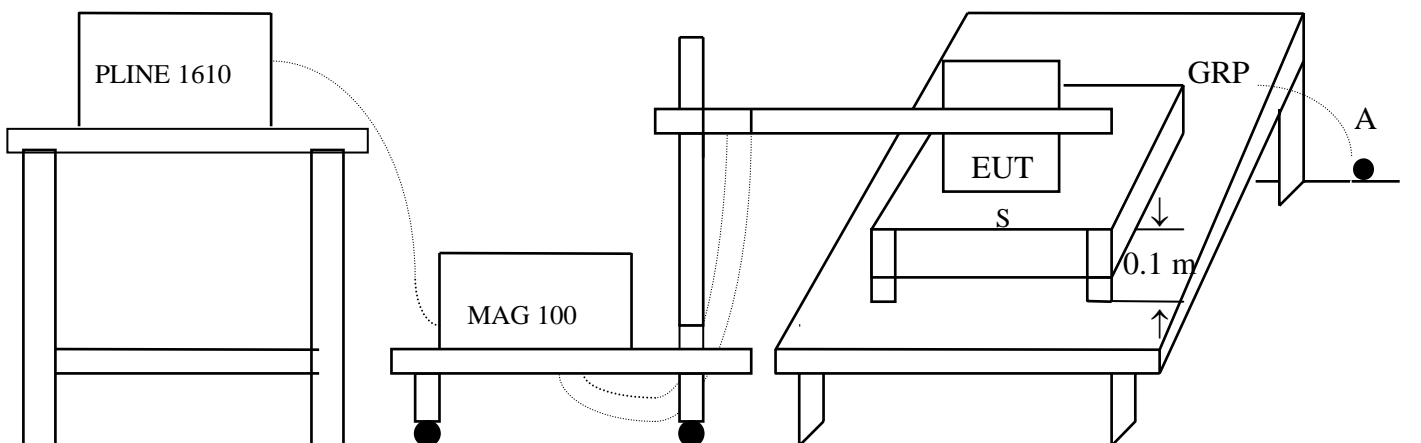
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
LINE INTERFERENCE TESTER	HAEFELY	PLINE 1610 080166-10	MAR/2006
MAGNETIC FIELD TESTER	HAEFELY	MAG 100.1 080206-01	N/A
TRIAXIAL ELF MAGNETIC FIELD METER	F.W.BELL	4080 9645	JUL/2005
CONTROL PC	KB TECH	KB P586/133	--

2 TEST STANDARD

According To **IEC 61000-4-8 (2001)**

According To **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



S: Insulating support

A: Safety earth

GRP: Ground plane

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

4 TEST LEVELS

Environmental Phenomena	Test Specification	Units	Performance Criteria
Power Frequency	50	HZ	
Magnetic Field	1	A/m	B

5 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

6 OPERATION CONDITION OF EUT

Same as “Conducted Power Line test”, section 5

7 CONDITIONS DURING TESTING

7.1 Temperature : 25 °C (15°C ~ 35°C)

Humidity : 58 % RH.(25 % ~ 75%)

7.2 The induction coil shall be rotated by 90°

8 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

9 TEST RESULTS

Environmental Phenomena	Test Specification	Units	Performance Criteria
Magnetic Field	1	A/m	A

9.1 Model : AD001H

9.2 Test Mode : S-Video Mode (1024 x 768 75Hz)

9.3 Final Results : PASSED

9.4 Remark :

10 Photos of test configuration please refer to appendix A.

VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST

1 TEST INSTRUMENTS & FACILITIES

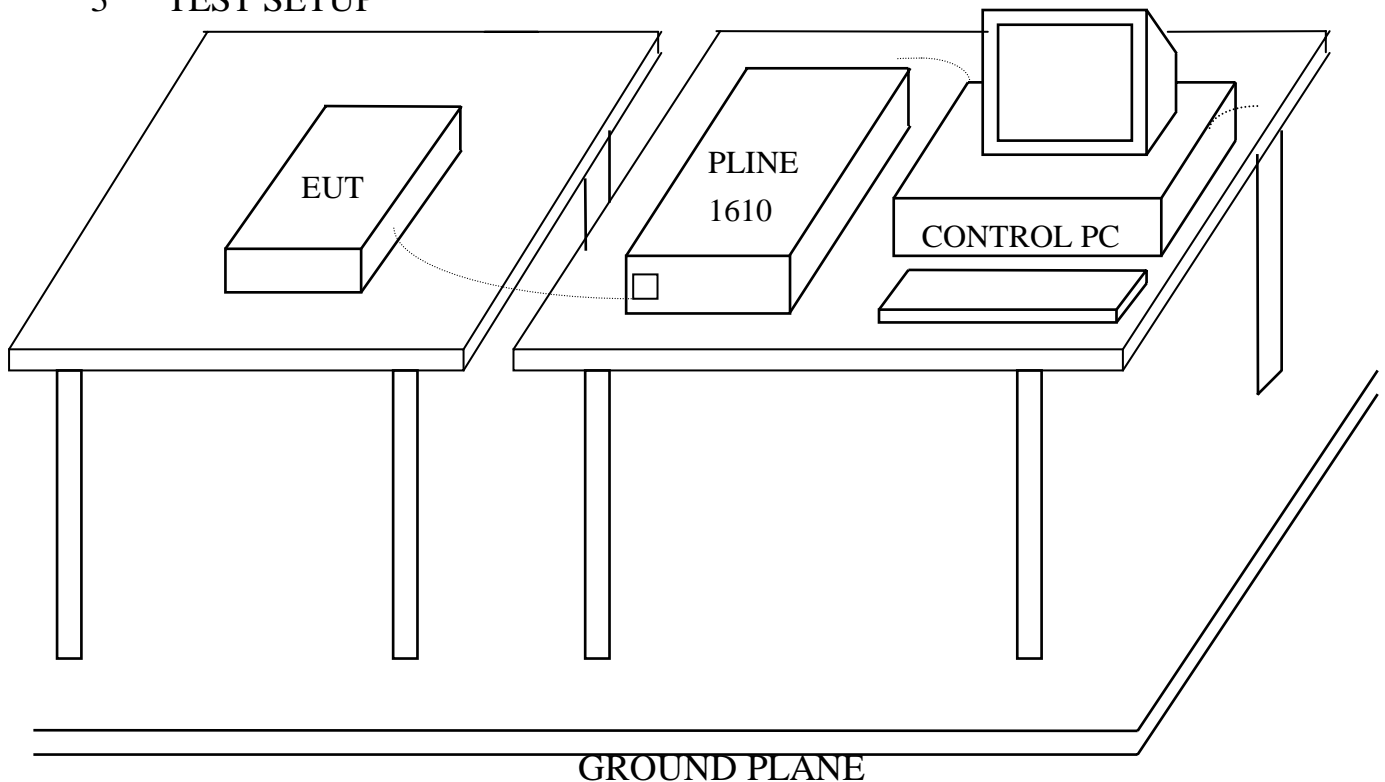
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
LINE INTERFERENCE -TESTER	HAEFELY	PLINE 1610 080166-10	MAR/2006
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

According To **IEC 61000-4-11 (2004)**

According To **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



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

4 TEST LEVELS

Input and Output AC Power Ports.

- Voltage Dips.
- Voltage Interruptions.

Class ^a	Test level and durations for voltage dips				
Class 1	Case-by-case according to the equipment requirements				
Class 2	0 % during 1/2 cycle	0 % during 1 cycle	70 % during 25/30 ^c cycles		
Class 3	0 % during 1/2 cycle	0 % during 1 cycle	40 % during 10/12 ^c cycles	70 % during 25/30 ^c cycles	80 % during 250/300 ^c cycles
a: Classes as per IEC 61000-2-4. b: To be defined by product committee. For equipment connected directly or indirectly to the public network, the levels must not be less severe than Class 2. c: “25/30 cycles” means “25 cycles for 50 Hz test” and “30 cycles for 60 Hz tet”.					

Class ^a	Test level and durations for short interruptions (t _s) (50Hz / 60Hz)
Class 1	Case-by-case according to the equipment requirements
Class 2	0 % during 250/300 ^c cycles
Class 3	0 % during 250/300 ^c cycles
Class X ^b	X
a: Classes as per IEC 61000-2-4. b: To be defined by product committee. For equipment connected directly or indirectly to the public network, the levels must not be less severe than Class 2. c: “250/300 cycles” means “250 cycles for 50 Hz test” and “300 cycles for 60 Hz test”.	

✘ **According to the specification of EUT, Class 2 is applied.**

5 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

6 EUT OPERATION CONDITION

Same as “Conducted Power Line test”, section 5

7 CONDITIONS DURING TESTING

- 7.1 Temperature : 25 °C (15°C ~ 35°C)
 Humidity : 58 % RH.(25 % ~ 75%)

8 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

9 TEST RESULT

Environmental Phenomena	Test Specification	Units	Perform Criteria
Voltage Dips	0 1/2	% during Cycle	A
	0 1	% during Cycle	C
	70 25	% during Cycles	C
Voltage Short Interruptions	0	% during	C
	250	Cycles	

9.1 Model : AD001H

9.2 Test Mode : S-Video Mode (1024 x 768 75Hz)

9.3 Final Results : PASSED

9.4 Remark :

10 Photos of test configuration please refer to appendix A.



HomeTek Technology Inc.

Appendix A

PHOTOS OF TEST CONFIGURATION

PHOTO OF CONDUCTED POWER LINE TEST

Test Mode : S-VIDEO Mode 1024 x768 75Hz , Model : AD001H



Front View



Rear View

PHOTO OF RADIATED EMISSION TEST

Test Mode : S-VIDEO Mode 800 x600 75Hz , Model : AD001H



Front View



Rear View

**PHOTO OF HARMONICS & VOLTAGE FLUCTUATIONS TEST
AND SURGE IMMUNITY TEST AND VOLTAGE DIPS, SHORT
INTERRUPTIONS IMMUNITY TEST**

Test Mode : S-VIDEO Mode 1024 x768 75Hz , Model : AD001H



**PHOTO OF ELECTRICAL FAST TRANSIENT/BURST IMMUNITY
TEST**



PHOTO OF ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

Test Mode : S-VIDEO Mode 1024 x768 75Hz , Model : AD001H



PHOTO OF POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST



PHOTO OF RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST (RS)

Test Mode : S-VIDEO Mode 1024 x768 75Hz , Model : AD001H



PHOTO OF CS CONDUCTED DISTURBANCE IMMUNITY TEST





HomeTek Technology Inc.

Appendix B

PHOTOS OF EUT

PHOTO OF EUT

Model : AD001H



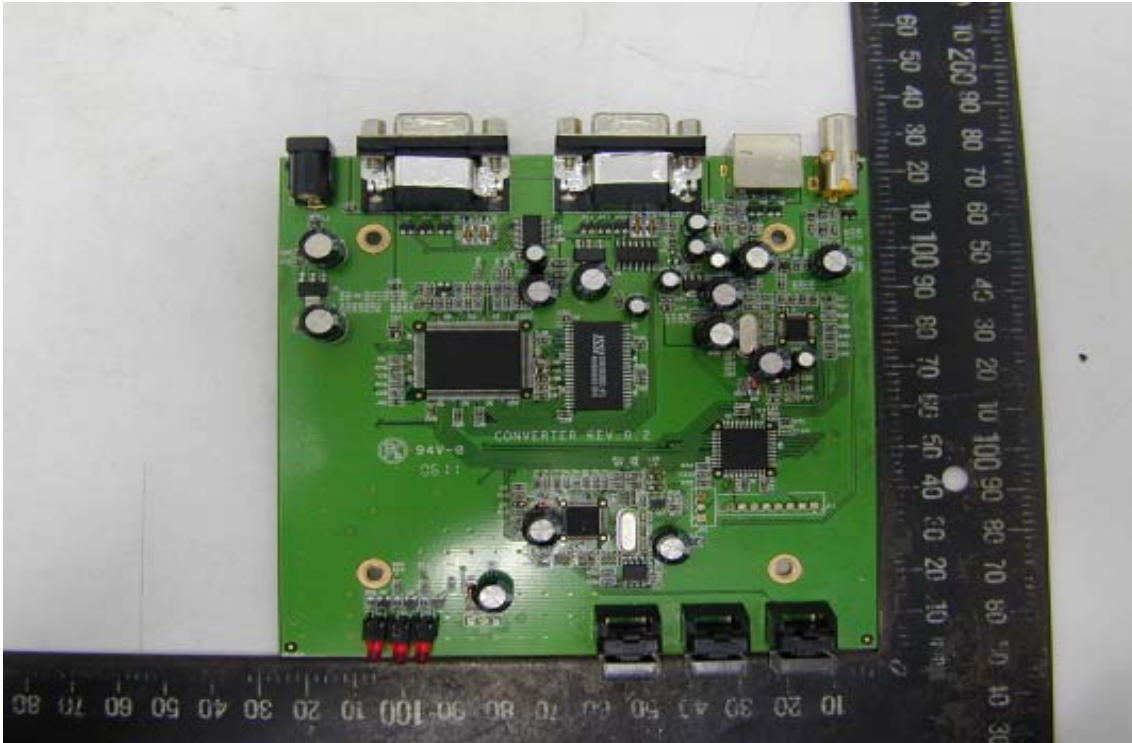
Full View of EUT



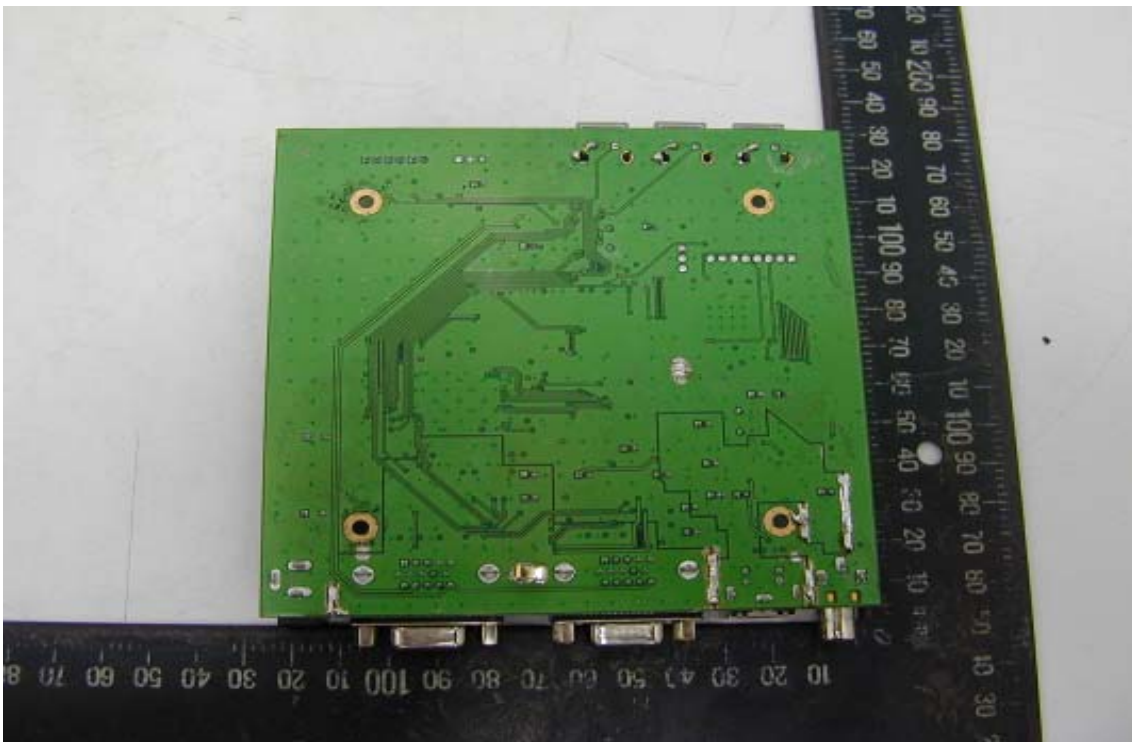
Full View of Adaptor

PHOTO OF EUT

Model : AD001XXX



Component Side of Main Board



Solder Side of Main Board

Declaration of Conformity

We(Manufacturer/Importer)

(company name)

(address)

declares under our sole responsibility that the product

Product name : Video to VGA Converter

Model No. : AD001XXX

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

- | | |
|---|---|
| <input checked="" type="checkbox"/> EN 55022 Class B (1998) | <input checked="" type="checkbox"/> EN 55024 (1998) |
| + A1 (2000) | + A1 (2001) |
| + A2 (2003) | + A2 (2003) |
| <input checked="" type="checkbox"/> EN 61000-3-2 (2000) | <input checked="" type="checkbox"/> IEC 61000-4-2 (2001) |
| <input checked="" type="checkbox"/> EN 61000-3-3 (1995) | <input checked="" type="checkbox"/> IEC 61000-4-3 (2002) |
| + A1 (2001) | <input checked="" type="checkbox"/> IEC 61000-4-4 (2004) |
| | <input checked="" type="checkbox"/> IEC 61000-4-5 (2001) |
| | <input checked="" type="checkbox"/> IEC 61000-4-6 (2003) |
| | + A1 (2004) |
| | <input checked="" type="checkbox"/> IEC 61000-4-8 (2001) |
| | <input checked="" type="checkbox"/> IEC 61000-4-11 (2004) |

following the provisions of 89/336/EEC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____



Title: _____



TÜV Rheinland Taiwan Ltd.

Certificate

of

Appointment

for the applicant:

Hometek Technology Inc.
No. 67-9, Shir Men Rd., Tu-Cheng City,
Taipei Hsien 236, Taiwan, R.O.C.

has been authorized to carry out EMC tests by order and under supervision of TÜV Rheinland. It has successfully demonstrated capability to conduct measurement and to process test data according to:

**European and International EMC Standards as listed in the
Scope of Authorization on the attachment to this certificate**

An assessment of the facility was conducted by TÜV Rheinland auditors according to the TÜV Rheinland requirements for "Test Site Approval" with reference to


ISO 17 025:1999

Certificate No. : 10012161-2006

Valid until : June 14, 2007

TÜV Rheinland Taiwan Ltd.
Taipei, April 13, 2006


Dipl.-Ing. Andreas Klinker
Certification Body


Dipl.-Ing. Bodo Kretzschmar
Product Safety and Quality



Attachment to
Certificate
of Appointment

SCOPE OF AUTHORIZATION

Hometek Technology Inc.
No. 67-9, Shir Men Rd., Tu-Cheng City,
Taipei Hsien 236, Taiwan, R.O.C.

European Standards

EN 50081-1	EN 61000-3-2	ENV 50140
EN 50081-2	EN 61000-3-3	ENV 50141
EN 50082-1	EN 61000-6-1	ENV 50204
EN 50130-4	EN 61000-6-2	
EN 50091-2	EN 61000-6-3	
EN 55011	EN 61000-6-4	
EN 55013	EN 61000-3-11	
EN 55014-1	EN 61000-4-2	
EN 55014-2	EN 61000-4-3	
EN 55022	EN 61000-4-4	
EN 55024	EN 61000-4-5	
EN 60601-1-2	EN 61000-4-6	
EN 60801	EN 61000-4-8	
EN 60945	EN 61000-4-11	
	EN 61204-3	

International Standards

CISPR 11	IEC 61000-4-2	IEC 61000-3-2
CISPR 13	IEC 61000-4-3	IEC 61000-3-3
CISPR 14-1	IEC 61000-4-4	IEC 61000-3-11
CISPR 14-2	IEC 61000-4-5	IEC 61000-6-1
CISPR 22	IEC 61000-4-6	IEC 61000-6-2
CISPR 24	IEC 61000-4-8	IEC 61000-6-3
	IEC 61000-4-11	IEC 61000-6-4
IEC 801.2	IEC 61000-4-12	IEC 60945
IEC 801.3		
IEC 801.4		

Certificate No. : 10012161-2006

Taipei, April 13, 2006


Dipl.-Ing. Bodo Kretzschmar
Product Safety and Quality