1.00

ENGTX 480 Standard Operation Procedure

Doc. No:

Date: Sep. 08. 2010 Revision:1.00

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Chongling

(ORev Modified Chapters	Modification Description	Issued Dept	Issued by	Revised Date

First release

GTC

Authorize by		Review by		Originator By	Chongling
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Form No: T2-009-01 Rev.01

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1.Objectives

Create test procedure.

2.Scope

Model: ENGTX 480 PN: C1CPE0(A01)

3.Test Item

- 3.1 Diagnostic test in DOS
- 3.2 3DMark06(contain HDMI test)
- 3.3 Temperature test
- 3.4 Suspend Test

4.Relevant Document

None.

5.Definition: 1. If the model name contains P, please test HDCP function.

Ex: EAH***/HTDP/512M/A

- 2. If you test HDMI already, it's unnecessary to test HDCP. The HDMI contains HDCP function.
- 3. Please use Nvidia platform (P5Q) to test in DOS.

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6. Operation Procedures:

6.1 Attention

- 6.1.1 To avoid damaging devices or M/B, please turn off A/C power then unplug VGA card
- 6.1.2 While unplugging the card, do it in upright direction to avoid damaging slot & golden finger.
- 6.1.3 If any problem happens, please inform test supervisor. Base on ATX power specification, +5V standby voltage is existed while AC power is connecting. For safety reason, please turn off main power during break time or idling test.
- 6.1.4 Some test items should be tested under Windows environment. (Please install windows test environment by yourself).

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6.2 Fixture connect

- 6.2.1 Install Intel P5 CPU & CPU Fan.
- 6.2.2 Install DDR2 667/800 2GB Memory to DIMM1~4.
- 6.2.3 Plug PS2 Mouse and PS/2 Keyboard into P5Q Motherboard.
- 6.2.4 Plug VGA Card ENGTX 470 into PCIEX16.
- 6.2.5 This card has 8 PIN&6PIN of Power supply, please connect power con of VGA card & Power supply via bundled power cable.

(8 PIN of Power supply to 8 PIN of VGA card, 6 PIN of Power supply to 6 PIN of VGA card)





6.2.6 Connect SATA HDD & SATA con via SATA cable



- 6.2.7 Plug 4PIN 12V (1200W) power cable into CON12V.
- 6.2.8 Plug ATX Power (1200W) on Power Connector.



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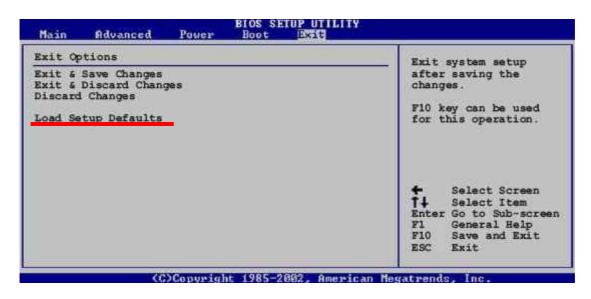
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6.3 Diagnostic test in DOS

6.3.1 Please connect LCD monitor & card's DVI CON via a DVI cable.



- 6.3.2 Press Power Switch then turn on power button.
- 6.3.3 Press "Del" to enter CMOS setup menu while boot screen is displaying. EXIT -> Load Setup Defaults.



6.3.4 System will reboot, select DOS to run test program.

Path:VBAT\ENGTX480\BATCH\

Run the test program refer to the prompt.

6.3.5 Memory test

If you want to test memory, please run mats.exe.

Path: VBAT\ENGTX480\19550\

6.3.6 BIOS flash

Please use the following command to flash bios and notice the size of character.

Path: VBAT\ENGTX480\BIOS

Command:nvflash xxx.rom -4 -5 -6 -A -y

Notice:

If you can not flash bios because of the bios locked, please use nvflash.exe /r to unlock bios. And then, please use nvflash.exe /w to lock bios after updating latest bios.

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6.3.7 After finish DOS testing, please enter Windows environment to test 3DMark.

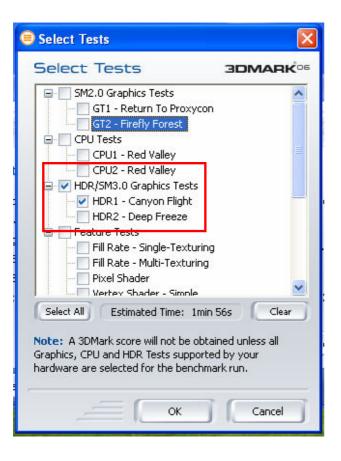
6.4 3DMark test(contain HDMI test)

- 6.4.1 Please install 3DMark program by yourself.
- 6.4.2 Please connect VGA card to LCD via HDMI cable.



6.4.3 Please install VGA card driver in Windows(You must use individual driver of this card).

- 6.4.4 Please run 3DMark06 base on this card (please test 1 cycle).
- 6.4.5 Press "Select" to enter Select test menu. You can choose "HDR1" for default setting.

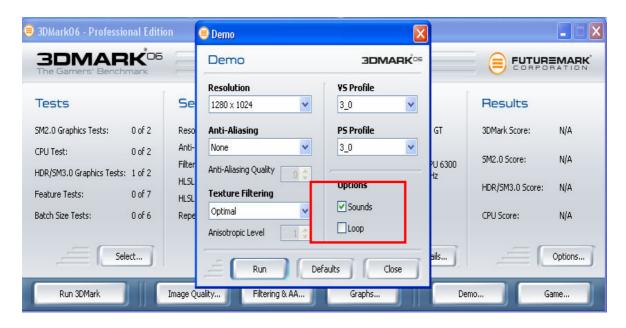


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6.4.6 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting.



- 6.4.7 Please pay attention to check if there is flickering, discolor, crash and so on. If there's no problem, it can be judged OK!
- 6.4.8 Please listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail.



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- 6. 4.9 If test OK, please test MINI HDMI port.
- 6. 4.10 Connect VGA card to LCD via Display cable test HDMI function.

(Please refer to step 6.4.4&6.4.5&6.4.6&6.4.7&6.4.8)



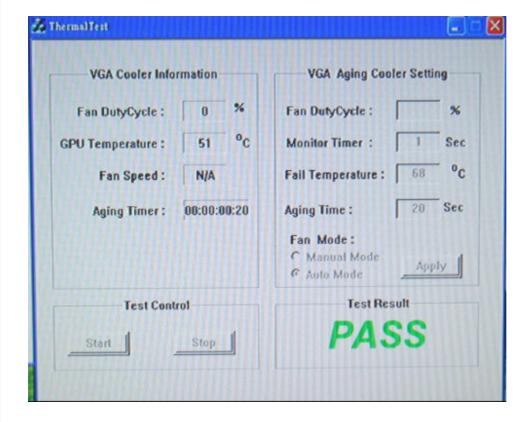
MINI HDMIN CON

6.5 Temperature test

- 6.5.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
- 6.5.2 Please run ThermalTest.exe.



6.5.3 If test ok, show pass.

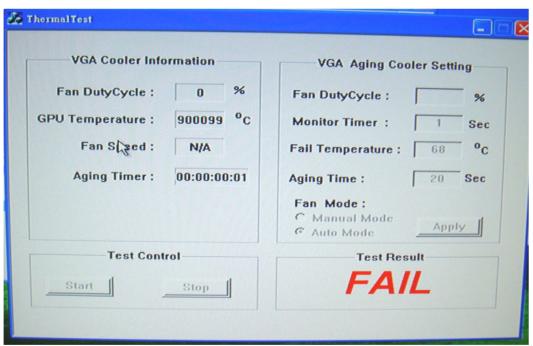


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6.5.4 If test fail, show fail.



6.5.5 If test OK, NTF test.

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7 Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	SAMSUNG 2232MW	TIS OS TUIV	Supplier	1	
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(1200W)			1	
5	INTEL Celeron E1200			1	E1200
6	Heat sink + FAN	22-240000160		1	
7	APACER 800MHz 1G			2	<u> </u>
8	TEST HDD			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	Control of the Contro
11	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	
12	Dual link DVI cable (Buying a local DVI cable by yourself)			1	O
13	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
14	TV extend cable (Buying a local TV cable by yourself)			1	
15	DVI-HDMI	04G460002400 /04G460002450		1	
16	HDMI to MINI HDMI cable (Buying a local cable by yourself)			1	
17	LCD "Y" Cable	14-010230000		1	
18	P5Q	80-MIB4P0-G0A01		1	