ASUSTeK	COMPUTER
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EAH6790 Date: Aug. 31, 2 Standard Operation Procedure Revision: 1.01

Doc. No: Date:Aug. 31, 2011

Page: 10 Grade:

Rev	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRMA	Ariel_wang	May.10,2011
1.01		Add new PCBA(C1CR40-A11)	GRMA	Ariel wang	Aug.31.2011

Authorize	Review	Originator	Ariel
by	by	By	

Form No: T2-009-01 Rev.01

EAH6790 Standard Operation Procedure Doc. No:

Date: Aug. 31, 2011

Rev.: 1.01 Page: 1

1.Objectives

Create test procedure.

2.Scope

Model: EAH6790

PN: C1CR40 (A01&A11)

3.Test Item

3.1 Diagnostic test in 64-bit Linux

3.2 3DMark06(contain HDMI test)

3.3 Temperature 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. System Memory: 1GB for a single GPU test station; please add an additional 512MB of system memory for each additional GPU used for the test configuration
- 4. EAH6790 Test Program in 64-bit Linux system.

ASUSTEK COMPUTER INC EAH6790
Standard Operation Procedure

Doc. No:

Date: Aug. 31, 2011

Rev.: 1.01 Page: 2

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).

EAH6790 Standard Operation Procedure Doc. No:

Date: Aug. 31, 2011 Rev.: 1.01 Page: 3

6.2 Fixture connect

- 6.2.1 Install Intel P5/P7 CPU & CPU Fan.
- 6.2.2 Install DDR2 1GB/DDR3 Memory to DIMM1~4. (a minimum memory of 2GB for Linux test)
- 6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card EAH6790 into PCIEX16 1.
- 6.2.5 If this card has 6 PIN or 8 PIN of Power supply, please connect power con of VGA card & Power supply via bundled power cable.

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

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





6.2.6 Connect SATA HDD & SATA con via SATA cable



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



EAH6790 Standard Operation Procedure

Doc. No:

Date: Aug. 31, 2011 Rev.: 1.01 Page: 4

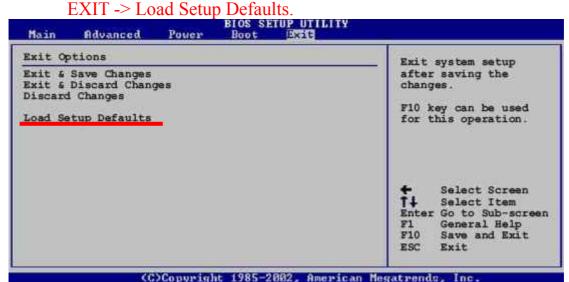
6.3 Certain test.

6.3.1 Diagnostic test in 64-bit LINUX system

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



- 6.3.1.2 Press Power Switch then turn on power button.
- 6.3.1.3 Press "Del" to enter CMOS setup menu while boot screen is displaying.



6.3.1.4 Run test program in 64-bit linux system.

Path:eah6790\c1cr40a0.sh or c1cr40a1.sh

Please enter into the file of eah6790 enter the following command: cd./eah6790 Then,please run./c1cr40a0.sh or./c1cr40a1.sh

6.3.1.5 Memory test

If you want to test memory, please run ./tserver -test=memfa Path:eah6790\

6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./atiflash -ai 0. Path:eah6790\

6.3.1.7 BIOS flash

Please use the following command to flash bios and notice the size of character. Path:eah6790\

Command:./atiflash -p -f 0 xxx.rom

Notice:

If you can not flash bios because of the bios locked, please use ./atiflash –unlockrom 0 to unlock bios. And then, please use ./atiflash –lockrom 0 to lock bios after updating latest bios.

6.3.1.8 After finishing 64-bit Linux testing, please enter Windows environment to test 3DMark.

EAH6790 Standard Operation Procedure

Doc. No:
Date: Aug. 31, 2011
Rev.: 1.01 Page: 5

6.3.2 3DMark test(contain HDMI test)

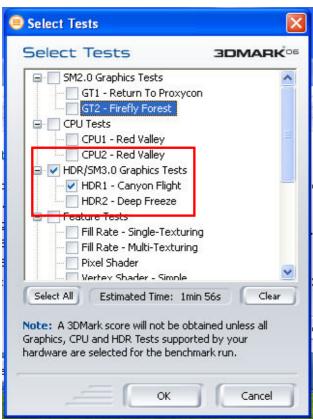
6.3.2.1 Please install 3DMark program by yourself.

6.3.2.2 Please connect VGA card to LCD via Display port cable.



Display Port CON(*4)

- 6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).
- 6.3.2.4 Please run 3DMark06 base on this card (please test 1 cycle).
- 6.3.2.5 Press "Select" to enter Select test menu. You can choose "HDR1" for default setting.

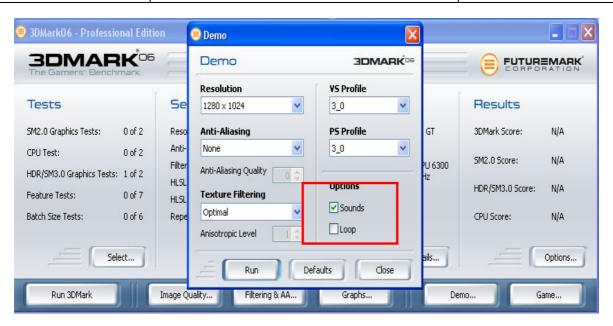


6.3.2.6 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting.

EAH6790 Standard Operation Procedure

Doc. No:

Date: Aug. 31, 2011 Rev.: 1.01 Page: 6



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



6. 3.2.9 If test OK, please test temperature test.

EAH6790 Standard Operation Procedure Doc. No:

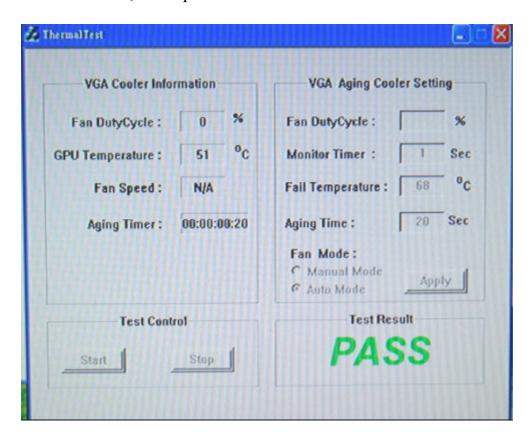
Date: Aug. 31, 2011 Rev.: 1.01 Page: 7

6.4 Temperature test

- 6.4.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
- 6.4.2 Please run ThermalTest.exe.



6.4.3 If test ok, show pass.

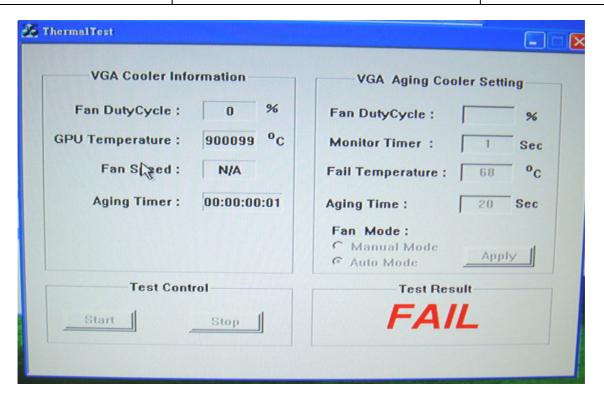


6.4.4 If test fail, show fail.

EAH6790 Standard Operation Procedure

Doc. No:

Date: Aug. 31, 2011 Rev.: 1.01 Page: 8



6.4.5 If test OK, please NTF test.

EAH6790 Standard Operation Procedure Doc. No:

Date: Aug. 31, 2011 Rev.: 1.01 Page: 9

7.Appendix

NO#	Equipment Description	ASUS Part#	Cupplion	Quantity	Pomarka
INO#	Equipment Description	ASUS Pari#	Supplier	Quantity	Remarks
1	Dell 30 inches (3008WFP) (Buying a local LCD by yourself)			1	
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(a minimum power of 500W)			1	
5	INTEL Celeron E1200			1	E1200
6	Intel CPU Intel(R) Core(TM)2 CPU		local	1	E1100
7	Heat sink + FAN	22-240000160		1	
8	DDR2(667/800) 1G	04G0016169A9NE /22-T00642404		4	
9	DDR3 1333 2G	20-TT2605618	local	4	
10	TEST HDD			1	
11	SATA HDD Cable	14-000107070	ASUS	1	
12	PCIEX16 VGA CARD			1	
13	Dual link DVI cable (Buying a local DVI cable by yourself)			1	
14	HDMI extend cable (Buying a local HDMI cable by yourself)			1	O
15 16	P5E MB	80- MBB7X0-*		1	
17	P7H55-M/USB3 MB Display port cable (Buying a local Display port cable by yourself)	80- MIBBKA-*		1	