ASUSTeK	COMPUTER		
INC.			

# R9380 Date: Dec.2.203 Standard Operation Procedure Revision: 1. 03

Doc. No:
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Rev. Modifie	\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Issued	Issued by	Revised Date
Chapter	s Wodification Description	Dept.	issued by	Revised Date
1.00	First Release	GTSD	Mao Lu	Apr.15.2015
1.01	Add new PN(YV08D1-A01)	GTSD	Mao Lu	Jun.10.2015
1.02	Add new PN(YV0901-A01)	GRTD	Xiaoming_Lu	Dec.2.2015
1.03	Add new PN(YV0900-A01)	GRTD	Xiaoming Lu	Dec.2.2015

Authorize	Review	Originator	
by	by	By Mao	

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# 1.Objectives

Create test procedure.

## 2.Scope

Model: R9380

PN:YV08D0(A01)YV08D1(A01) YV0900(A01) YV0901(A01)

## 3.Test Item

- 3.1 Diagnostic test in 12\_04\_64-bit Linux
- 3.2 3DMark06(contain HDMI test)
- 3.3 Temperature test
- 3.4 Fan 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. R9380 Test Program in 64-bit Linux system.

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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 P7 CPU & CPU Fan.
- 6.2.2 Install 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 R9380 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.



## 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.

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EXIT -> Load Setup Defaults.



6.3.1.4 Run test program in 64-bit linux system.

Path:R9380\ yv08d0a0.shoryv08d1a0.sh

Path:R93804\ yv0901a0 Path:R93805\ yv090a0

## 6.3.1.5 Memory test

If you want to test memory, please run ./tserver -boardtest=memfa or ./memtest.sh Path:R9380\

### 6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./atiflash –ai 0 or ./biosinfo. Path:R9380\

## 6.3.1.7 BIOS flash

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

Path:R9380\

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 FAN Test

Please run ./aft2fan..

Path:R9380\AFT

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

## 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 HDMI cable or MINI Display Port or Display Port to HDMI cable or Display Port cable or D-SUB cable.

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**HDMI Port** 



# **Display Port CON**

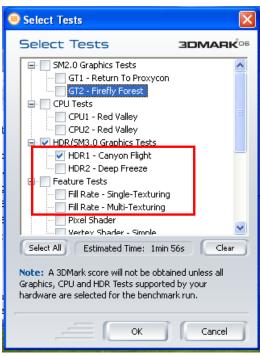


**D-SUB Port** 

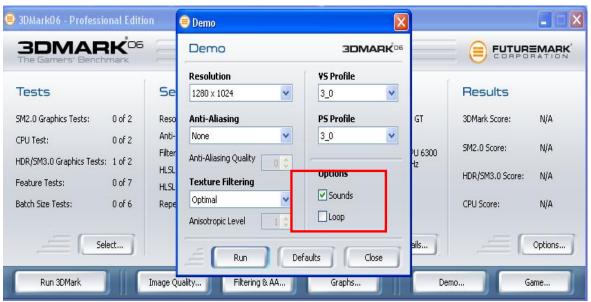
- 6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).
- 6.3.2.4 Please run 3DMark06 base on this card (please test 1 cycle).
- 6.3.2.5 Press "Select" to enter Select test menu. You can choose "HDR1" for default setting.

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



- 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.

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

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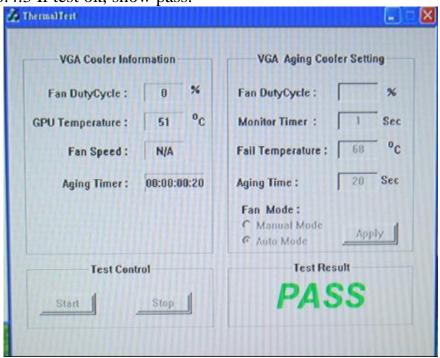
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## **6.4 Temperature test(85℃)**

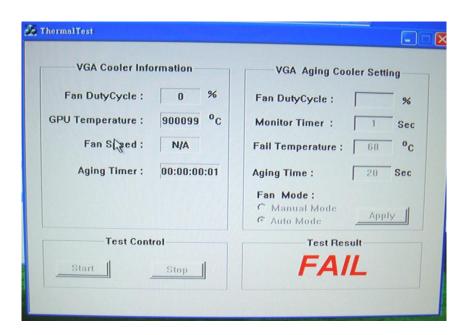
- 6.4.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
- 6.4.2 Please run ThermalTest.exe.



6.4.3 If test ok, show pass.



6.4.4 If test fail, show fail.



6.4.5 If test OK, please NTF test.

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# 7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	Dell 30 inches (3008WFP) (Buying a local LCD by yourself)	7.000.	Саррио	1	Dect.
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(a minimum power of 500W)			1	
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	E1200
6	Heat sink + FAN	22-240000160		1	
7	DDR3 1333 2G	20-TT2605618	local	4	
8	TEST HDD			1	Winds and the second se
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	
11	Dual link DVI cable (Buying a local DVI cable by yourself)			1	O
12	HDMI extend cable (Buying a local HDMI cable by yourself)			1	O
13	P7H55-M/USB3 MB	80- MIBBKA-*		1	
14	Display port cable (Buying a local Display port cable by yourself)			1	CONTROL OF THE PARTY OF THE PAR
15	Mini Display port to HDMI cable (Buying a local Mini Display port to HDMI cable by yourself)			1	
16	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	