ASUSTeK COMPUTER INC.

RX6900 Standard Operation Procedure Revision:1.00

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Date: Jan.28.2021

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Grade:

Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRTD	Maico_Zhang	Jan.28.2021

Authorize	Review	Originator	0
by	by	By Maic	

Form No: T2-009-01 Rev.01

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## 1. Objectives

Create test procedure.

2. Scope

Model: RX6900 series

PN:

## 3. Test Item

3.1 Diagnostic test in Ubuntu18.04\_64-bit Linux

## 3. Relevant Document

None.

## **5. Definition**:

- 1. System Memory: 8GB for a single GPU test station.
- 2. Test Program in 64-bit Linux system.

## **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 AMD Matisse (3rd Ryzen) CPU & CPU Fan.

- 6.2.2 Install DDR4 Memory to DIMM. (This model needs 8GB memory)
- 6.2.3 Plug USB Mouse and Keyboard into MB.
- 6.2.4 Plug VGA Card 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 850W) cable into CON12V.
- 6.2.8 Plug ATX Power on Power (a minimum power of 850W) Connector.



### 6.3 Certain test.

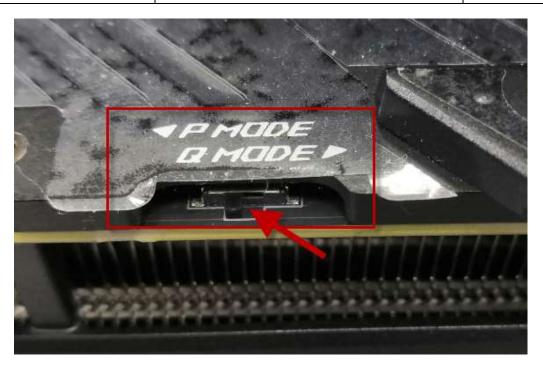
## 6.3.1 Diagnostic test in 64-bit LINUX system

6.3.1.1 Test specifications should be used to control Q-MODE.

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6.3.1.2 Please connect LCD monitor & card's HDMI(DP) CON via a HDMI(DP) cable.



- 6.3.1.3 Plug type-C cable of mobile SSD into Type-C port of VGA card (For Type-C port model).
- 6.3.1.4 Press Power Switch then turn on power button.
- 6.3.1.5 Press "Del" to enter CMOS setup menu while boot screen is displaying. EXIT -> Load Setup Defaults.
- 6.3.1.6 Run test program in 64-bit Linux system. Run ./amd.sh, input Serial No. and 60Part No.as below.

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#### 6.3.1.7 Select 5 to run final test.

#### 6.3.1.8 BIOS flash

- a. Single BIOS
- -- Select 2, auto update VBIOS.

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#### b. Dual-VBIOS

-- Please use the following command to flash VBIOS in DIAG folder. Path: refer to Diag Ver. as below.

Command: ./amdvbflash -p -f 0 xxx.rom or 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.

6.3.2 If test OK, please NTF test.

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## 7. Appendix

NO#	Equipment	ASUS Part#	Photo	ASP	ASUS	Q'ty
110#	Description	AGGG I ait#	1 11010	Source	Source	Q ty
1	LCD Monitor with HDMI/Display Port 4096 x 2304 @ 60 Hz			Local	Local	1
2	USB MOUSE			Local	Local	1
3	USB KEYBOARD			Local	Local	1
4	ATX POWER SUPPLY (a minimum power of 850W) ROG-THOR-850P	90YE0090-B001X0		Local	ASUS	1
4-1	ROG-THOR-850P Cable	90YE0090-B001Y0		Local	ASUS	1
5	AMD AM4 Socket 3rd Ryzen Processors (Support PCIE 4.0x16) AMD CPU R5-3600	*You can select one for below 3 Part No.	RYZEN	Local	ASUS	1
	3.6G/32M AMD CPU R7-3700X 3.6G/32M	01002-01320300 01002-01320100	BIR			
	AMD CPU R7-3800X 3.9G/32M	01002-01320000				
6	Heat sink + FAN			Local	Local	1
7	DDR4 2400 4G	03A08-00011700	2-00,000s	Local	ASUS	1
8	SATA HDD	03B01-00131800		Local	ASUS	1
9	SATA HDD Cable			Local	Local	1
11	HDMI extend cable (Buying a local HDMI cable by yourself)		0	Local	Local	1
12	X570 Series MB (Support PCle 4.0x16) ASUS ROG STRIX X570-F GAMING	90MB1160-M0AAY0		Local	ASUS	1

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13	Display port cable (Buying a local Display port cable by yourself)		Local	Local	1
14	Mobile SSD with Type-C port		Local	Local	1
15	Type-C cable		Local	Local	1