

ASUSTeK COMPUTER INC.	RX570 Standard Operation Procedure	Doc. No:	
		Date: Jun.28.2020	
		Revision:1.58	
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Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRTD	Maico_Zhang	Apr.19.2017
1.01		Add new PN(YV0AI1-A01)	GRTD	Maico_Zhang	Apr.19.2017
1.02		Add new PN(YV0AJ0-A01)	GRTD	Maico_Zhang	Apr.19.2017
1.03		Add new PN(YV0AJ1-A01)	GRTD	Maico_Zhang	Apr.19.2017
1.04		Add new PCBA(YV0AJ0-A12)	GRTD	Maico_Zhang	Apr.19.2017
1.05		Add new PCBA(YV0AJ1-A12)	GRTD	Maico_Zhang	Apr.19.2017
1.06		Add new PCBA(YV0AI0-A11)	GRTD	Maico_Zhang	May.18.2017
1.07		Add new PCBA(YV0AI1-A11)	GRTD	Maico_Zhang	May.18.2017
1.08		Add new PN(YV0AJ0-A24)	GRTD	Maico_Zhang	Aug.21.2017
1.09		Add new PN(YV0AJ1-A24)	GRTD	Maico_Zhang	Aug.21.2017
1.10		Add new PCBA(YV0AJ0-A34)	GRTD	Maico_Zhang	Oct.24.2017
1.11		Add new PCBA(YV0AJ1-A34)	GRTD	Maico_Zhang	Oct.24.2017
1.12		Add new PCBA(YV0AJ0-A44)	GRTD	Maico_Zhang	Nov.2.2017
1.13		Add new PCBA(YV0AJ1-A44)	GRTD	Maico_Zhang	Nov.2.2017
1.14		Add new PCBA(YV0AI0-B01)	GRTD	Maico_Zhang	Dec.21.2017
1.15		Add new PCBA(YV0AI0-B11)	GRTD	Maico_Zhang	Dec.21.2017
1.16		Add new PCBA(YV0AI1-B01)	GRTD	Maico_Zhang	Dec.21.2017
1.17		Add new PCBA(YV0AI1-B11)	GRTD	Maico_Zhang	Dec.21.2017
1.18		Add new PCBA(YV0AI0-B22)	GRTD	Maico_Zhang	Apr.28.2018
1.19		Add new PCBA(YV0AI0-B32)	GRTD	Maico_Zhang	Apr.28.2018
1.20		Add new PCBA(YV0AI1-B22)	GRTD	Maico_Zhang	Apr.28.2018
1.21		Add new PCBA(YV0AI1-B32)	GRTD	Maico_Zhang	Apr.28.2018
1.22		Add new PN(YV0AJ0-A55)	GRTD	Maico_Zhang	Apr.28.2018
1.23		Add new PN(YV0AJ1-A55)	GRTD	Maico_Zhang	Apr.28.2018
1.24		Add new PCBA(YV0AJ2-A01)	GRTD	Maico_Zhang	Apr.28.2018
1.25		Add new PCBA(YV0AJ3-A01)	GRTD	Maico_Zhang	Apr.28.2018
1.26		Add new PCBA(YV0AJ2-A11)	GRTD	Maico_Zhang	Apr.28.2018
1.27		Add new PCBA(YV0AJ3-A11)	GRTD	Maico_Zhang	Apr.28.2018
1.28		Add new PN(YV0AI2-A01)	GRTD	Maico_Zhang	Apr.28.2018
1.29		Add new PN(YV0AI3-A01)	GRTD	Maico_Zhang	Apr.28.2018
1.30		Add new PCBA(YV0AI4-A01)	GRTD	Maico_Zhang	Apr.28.2018
1.31		Add new PCBA(YV0AI5-A01)	GRTD	Maico_Zhang	Apr.28.2018
1.32		Add new PCBA(YV0AI6-A01)	GRTD	Maico_Zhang	May.17.2018

Authorize by		Review by		Originator By	Maico
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1.33		Add new PCBA(YV0AI6-A12)	GRTD	Maico_Zhang	May.17.2018
1.34		Add new PCBA(YV0AI6-A22)	GRTD	Maico_Zhang	May.17.2018
1.35		Add new PCBA(YV0AI7-A01)	GRTD	Maico_Zhang	May.17.2018
1.36		Add new PCBA(YV0AI7-A12)	GRTD	Maico_Zhang	May.17.2018
1.37		Add new PCBA(YV0AI7-A22)	GRTD	Maico_Zhang	May.17.2018
1.38		Add new PCBA(YV0AI0-B42)	GRTD	Maico_Zhang	May.17.2018
1.39		Add new PCBA(YV0AI1-B42)	GRTD	Maico_Zhang	May.17.2018
1.40		Add new PN(YV0AI6-B01)	GRTD	Maico_Zhang	May.17.2018
1.41		Add new PN(YV0AI7-B01)	GRTD	Maico_Zhang	May.17.2018
1.42		Add new PN(YV0C70-A01)	GRTD	Maico_Zhang	Aug.30.2018
1.43		Add new PN(YV0AI2-A15)	GRTD	Maico_Zhang	Apr.9.2019
1.44		Add new PN(YV0AI3-A15)	GRTD	Maico_Zhang	Apr.9.2019
1.45		Add new PN(YV0AJ4-A01)	GRTD	Maico_Zhang	Aug.14.2019
1.46		Add new PN(YV0AJ5-A01)	GRTD	Maico_Zhang	Aug.14.2019
1.47		Add new PN(YV0AJ6-A01)	GRTD	Maico_Zhang	Aug.14.2019
1.48		Add new PN(YV0AJ7-A01)	GRTD	Maico_Zhang	Aug.14.2019
1.49		Add new PN(YV0AJ0-A65)	GRTD	Maico_Zhang	Nov.1.2019
1.50		Add new PN(YV0AJ1-A65)	GRTD	Maico_Zhang	Nov.1.2019
1.51		Add new PN(YV0AJ6-A11)	GRTD	Maico_Zhang	Nov.28.2019
1.52		Add new PN(YV0AJ7-A11)	GRTD	Maico_Zhang	Nov.28.2019
1.53		Add new PCBA(YV0AI1-C01)	GRTD	Maico_Zhang	Jan.22.2020
1.54		Add new PCBA(YV0AI0-C01)	GRTD	Maico_Zhang	Jan.22.2020
1.55		Add new PN(YV0EV0-A01)	GRTD	Maico_Zhang	Jun.22.2020
1.56		Add new PN(YV0EV1-A01)	GRTD	Maico_Zhang	Jun.22.2020
1.57		Add new PCBA(YV0AI9-A01)	GRTD	Maico_Zhang	Jun.28.2020
1.58		Add new PCBA(YV0AI9-A11)	GRTD	Maico_Zhang	Jun.28.2020

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## 1.Objectives

Create test procedure.

## 2.Scope

Model: RX570

PN: YV0AI0(A01/A11/B01/B11/B22/B32/B42/C01)  
YV0AI1(A01/A11/B01/B11/B22/B32/B42/C01)  
YV0AJ0(A01/A12/A24/A34/A44/A55) YV0AJ1(A01/A12/A24/A34/A44/A55)  
YV0AJ2(A01/A11) YV0AJ3(A01/A11) YV0AI2(A01/A15) YV0AI3(A01/A15) YV0AI4(A01)  
YV0AI5(A01) YV0AI6(A01/A12/A22/B01) YV0AI7(A01/A12/A22/B01) YV0C70(A01)  
YV0AJ4(A01) YV0AJ5(A01) YV0AJ6(A01/A11) YV0AJ7(A01/A11) YV0AJ0(A65)  
YV0AJ1(A65) YV0EV0(A01) YV0EV1(A01) YV0AI9(A01/A11)

## 3.Test Item

3.1 Diagnostic test in 14\_04\_64-bit Linux

## 4.Relevant Document

None.

## 5.Definition :

1. RX570 Test Program in 64-bit Linux system.

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## 6. Operation Procedures:

### 6.1 Attention

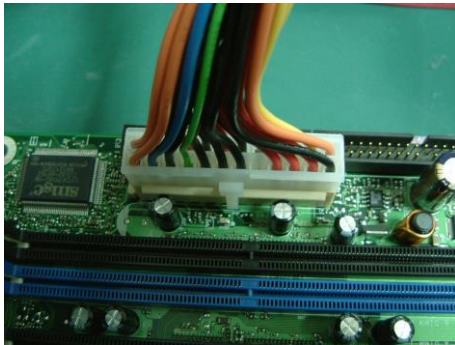
- 6.1.1 To avoid damaging devices or M/B, please turn off A/C power then unplug VGA card.
- 6.1.2 While unplugging the card, do it in upright direction to avoid damaging slot & golden finger.
- 6.1.3 If any problem happens, please inform test supervisor. Base on ATX power specification, +5V standby voltage 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).**

### 6.2 Fixture connect

- 6.2.1 Install Intel CPU & CPU Fan.
- 6.2.2 Install DDR Memory to DIMM1~4.
- 6.2.3 Plug USB Mouse and Keyboard into MB.
- 6.2.4 Plug VGA Card RX570 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.



Dual link 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.

**EXIT -> Load Setup Defaults.**



6.3.1.4 Run test program in 64-bit linux system.

Path:rx570\ yv0ai0a0 or yv0ai0a1 or yv0ai0b0 or yv0ai0b1 or yv0ai0b2 or yv0ai0b3 or yv0ai6a0 or yv0ai6a1 or yv0ai6a2 or yv0ai0b4

Path:rx5701\ yv0ai1a0 or yv0ai1a1 or yv0ai1b0 or yv0ai1b1 or yv0ai1b2 or yv0ai1b3 or yv0ai7a0 or yv0ai7a1 or yv0ai7a2 or yv0ai1b4 or yv0ai9a0 or yv0ai9a1

Path:rx5702\ yv0aj0a0 or yv0aj0a1

Path:rx5703\ yv0aj1a0 or yv0aj1a1

Path:rx5704\ yv0aj0a2 or yv0aj0a3 or yv0aj0a4

Path:rx5705\ yv0aj1a2 or yv0aj1a3 or yv0aj1a4

Path:rx5706\ yv0aj0a5 or yv0aj2a0 or yv0aj2a1

Path:rx5707\ yv0aj1a5 or yv0aj3a0 or yv0aj3a1

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Path:rx5708\ yv0ai2a0 or yv0ai4a0  
 Path:rx5709\ yv0ai3a0 or yv0ai5a0  
 Path:rx570a\ yv0ai6b0 or yv0ai0c0  
 Path:rx570b\ yv0ai7b0 or yv0ai1c0  
 Path:rx570c\ yv0c70a0  
 Path:rx570d\ yv0ai2a1  
 Path:rx570e\ yv0ai3a1  
 Path:rx570f\ yv0aj4a0  
 Path:rx570g\ yv0aj5a0  
 Path:rx570h\ yv0aj7a0  
 Path:rx570i\ yv0aj6a0  
 Path:rx570j\ yv0aj0a6  
 Path:rx570k\ yv0aj1a6  
 Path:rx570l\ yv0aj6a1  
 Path:rx570m\ yv0aj7a1  
 Path:rx570n\ yv0ev0a0  
 Path:rx570o\ yv0ev1a0

#### 6.3.1.5 Memory test

If you want to test memory, please run `./tserver -boardtest=memfa` or `./memtest.sh`  
 Path:rx570\

#### 6.3.1.6 BIOS Version

If you want to see the version of bios, please run `./atiflash -ai 0` or `./biosinfo`.  
 Path:rx570\

#### 6.3.1.7 BIOS flash

Please use the following command to flash bios and notice the size of character.  
 Path:rx570\

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

#### Notice:

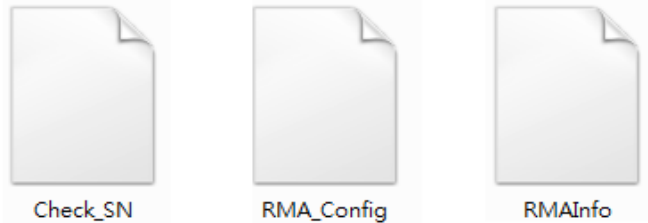
If you can not flash bios because of the bios locked, please use `./atiflash -unlockrom 0` to unlock bios. And then, please use `./atiflash -lockrom 0` to lock bios after updating latest bios.

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## 6.4 Result upload to server (need connect to internet)

6.4.1 Download and copy RMA upload tool to diag folder by model (It don't need copy after 2018.5 uploaded model).

The tool of RMA upload tool include 3 files:



### 6.4.2 Edit **RMA\_Config** file:

First line confirms the address of local sever, Second line is Tester ID.

The **RMA\_Config** only need modify one time.

```

CN ← Server Select
1150231 ← Test ID

-----
# First Line : Server Select.
# Second Line : Test ID

Server Select :

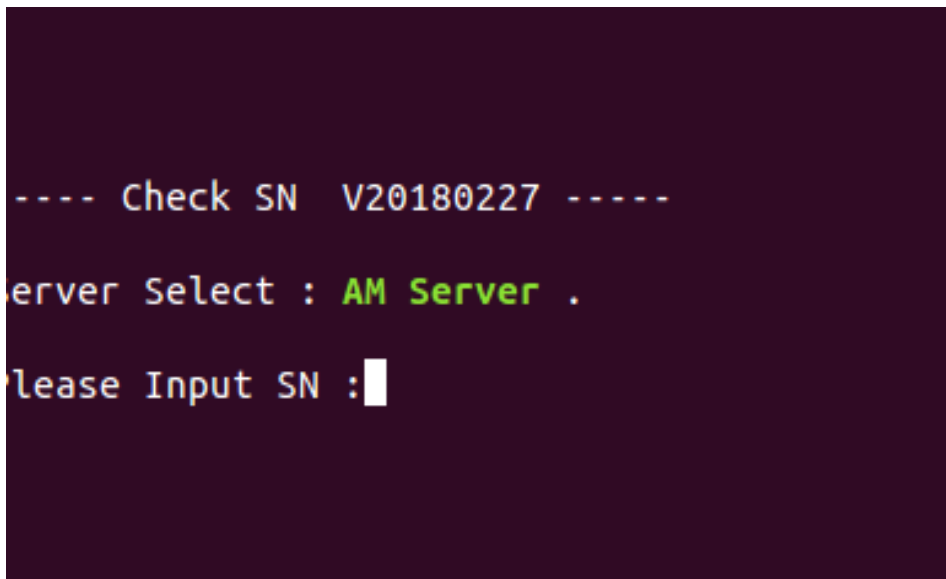
1. AS --> https://as.eservice.asus.com
2. CN --> https://cn.eservice.asus.com
3. AM --> https://am.eservice.asus.com
4. AU --> https://au.eservice.asus.com
5. EU --> https://eu.eservice.asus.com

Test ID : RMA Tester ID

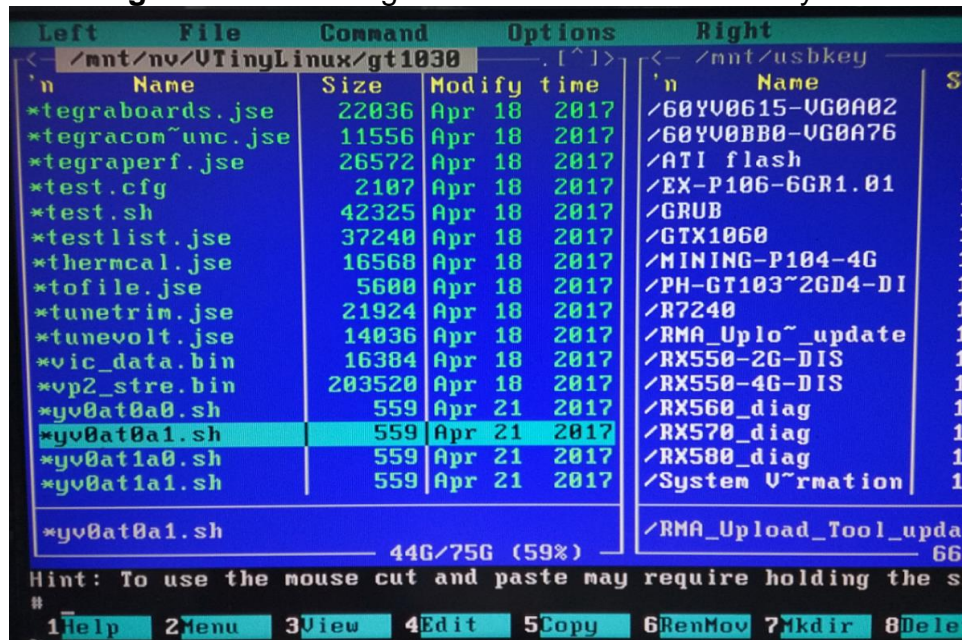
```

6.4.3 Run **Check\_SN** and type in your VGA SN which need to be testing. The SN must be in repair status.





6.4.4 Run **Diag** test and the diag name is same as the PN of your VGA card.



6.4.5 After Diag test is finished, run **RMAInfo** and the test result will be sent to server.



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```
=====
=      ASUS VGA RMA Infomation      =
=      Rev2018.02.27                =
=====

Tester ID = 11502YQ
Addr = AM Server .
Problem Code : MNTF01
NV Test Result = PASS
NV Error Code = 000000000000

Update Data To ASUS VGA Server.....







Update Data:  HAC0YZ268879 PASS 06/03/2018 08:51:59 11502YQ






Please Wait For Ther Return Status:

Result:
SVZ26895
-----
```

6.5 If test OK, please NTF test.

## 7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	LCD Monitor with HDMI/Display Port 4096 x 2304 @ 60 Hz		local	1	
2	USB MOUSE		local	1	
3	KEYBOARD		local	1	
4	ATX POWER SUPPLY (a minimum power of 600W)		local	1	
5	Intel CPU Intel(R) I5 7500 CPU		local	1	
6	Heat sink + FAN		local	1	

7	DDR4 2400 4G		local	2	
8	TEST HDD		local	1	
9	SATA HDD Cable		local	1	
10	HDMI cable (Buying a local HDMI cable by yourself)		local	1	
11	ASUS Prime B250-plus MB		local	1	
12	Dual link DVI cable (Buying a local DVI cable by yourself)		local	1	
13	Display port cable (Buying a local Display port cable by yourself)		local	1	