| Rev. | Modified Chapters | Modification Description | Issued Dept. | Issued by | Revised Date |
|---|---|---|---|---|---|
| 1.00 | | First Release | GRTD | Maico_Zhang | May.8.2017 |
| 1.01 | | Add new PN(YV0AH1-A01) | GRTD | Maico_Zhang | May.8.2017 |
| 1.02 | | Add new PN(YV0AH2-A01) | GRTD | Maico_Zhang | May.19.2017 |
| 1.03 | | Add new PN(YV0AH3-A01) | GRTD | Maico_Zhang | May.19.2017 |
| 1.04 | | Add new PN(YV0AH4-A02) | GRTD | Maico_Zhang | Jun.27.2017 |
| 1.05 | | Add new PN(YV0AH5-A02) | GRTD | Maico_Zhang | Jun.27.2017 |
| 1.06 | | Add new PCBA(YV0AH0-A11) | GRTD | Maico_Zhang | Jul.19.2017 |
| 1.07 | | Add new PCBA(YV0AH1-A11) | GRTD | Maico_Zhang | Jul.19.2017 |
| 1.08 | | Add new PCBA(YV0AH4-A12) | GRTD | Maico_Zhang | Jul.26.2017 |
| 1.09 | | Add new PN(YV0AH6-A02) | GRTD | Maico_Zhang | Sep.22.2017 |
| 1.10 | | Add new PN(YV0AH7-A02) | GRTD | Maico_Zhang | Sep.22.2017 |
| 1.11 | | Add new PN(YV0AH8-A01) | GRTD | Maico_Zhang | Oct.5.2017 |
| 1.12 | | Add new PN(YV0AH9-A01) | GRTD | Maico_Zhang | Oct.5.2017 |
| 1.13 | | Add new PN(YV0AHC-A02) | GRTD | Maico_Zhang | May.4.2018 |
| 1.14 | | Add new PN(YV0AHD-A02) | GRTD | Maico_Zhang | May.4.2018 |
| 1.15 | | Add new PN(YV0AHE-A01) | GRTD | Maico_Zhang | May.4.2018 |
| 1.16 | | Add new PN(YV0AHF-A01) | GRTD | Maico_Zhang | May.4.2018 |
| 1.17 | | Add new PN(YV0AH8-A11) | GRTD | Maico_Zhang | May.4.2018 |
| 1.18 | | Add new PN(YV0AH9-A11) | GRTD | Maico_Zhang | May.4.2018 |
| 1.19 | | Add new PN(YV0AH0-A22) | GRTD | Maico_Zhang | May.17.2018 |
| 1.20 | | Add new PN(YV0AH1-A22) | GRTD | Maico_Zhang | May.17.2018 |
| 1.21 | | Add new PCBA(YV0AHA-A01) | GRTD | Maico_Zhang | May.17.2018 |
| 1.22 | | Add new PCBA(YV0AHB-A01) | GRTD | Maico_Zhang | May.17.2018 |

## 1.Objectives

Create test procedure.

## 2.Scope

Model: RX560

PN: YV0AH0(A01) YV0AH1(A01) YV0AH2(A01) YV0AH3(A01) YV0AH4(A02) YV0AH4(A02) YV0AH0(A11) YV0AH1(A11) YV0AH4(A12) YV0AH6(A02) YV0AH7(A02) YV0AH8(A01) YV0AH9(A01) YV0AHC(A02) YV0AHD(A02) YV0AHE(A01) YV0AHF(A01) YV0AH8(A11) YV0AH9(A11) YV0AH0(A22) YV0AH1(A22) YV0AHA(A01) YV0AHB(A01)

## 3.Test Item

3.1 Diagnostic test in 14_04_64-bit Linux

## 4.Relevant Document

None.

## 5.Definition :

1. RX560 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).

### 6.2 Fixture connect

6.2.1 Install Intel CPU & CPU Fan.

6.2.2 Install DDR 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 RX560 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.

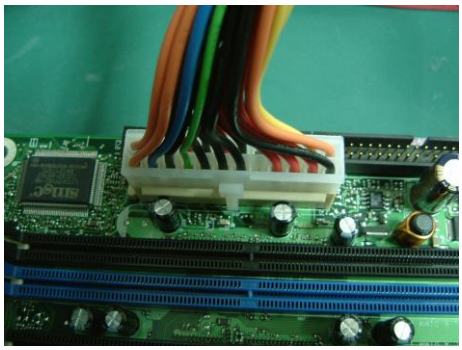
(6 PIN of Power supply to 6 PIN of VGA card)

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

6.2.6 Connect SATA HDD & SATA con via SATA cable


SATA

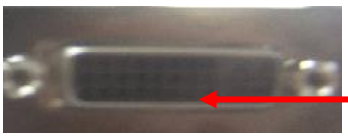
6.2.7 Plug 4PIN 12V power**(a minimum power of 1200W)** cable into CON12V.
6.2.8 Plug ATX Power on Power**(a minimum power of 1200W)** Connector.



## 6.3 Certain test.

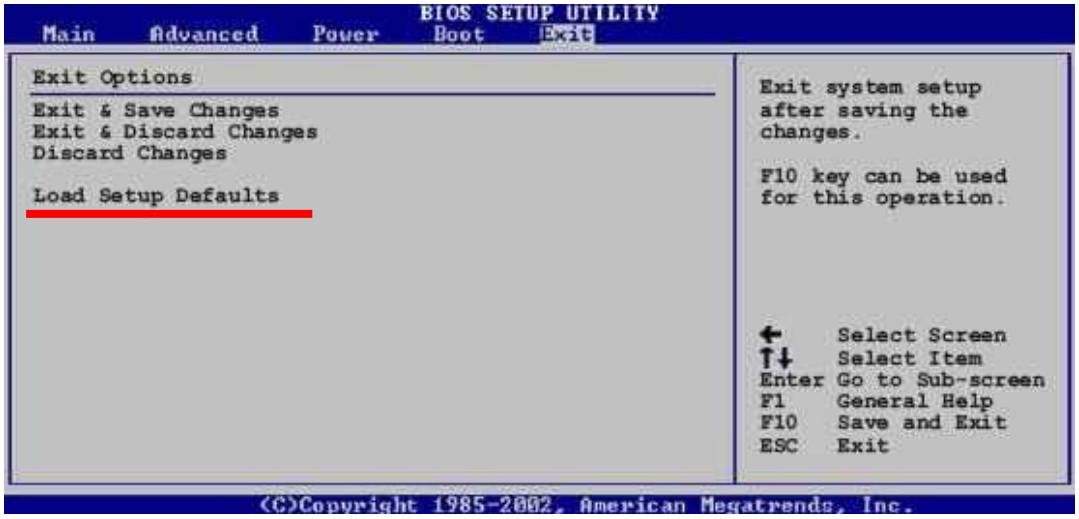
### 6.3.1 Diagnostic test in 64-bit LINUX system

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:rx560\ yv0ah0a0 or yv0ah0a1
Path:rx5601\ yv0ah1a0 or yv0ah1a1
Path:rx5602\ yv0ah2a0
Path:rx5603\ yv0ah3a0
Path:rx5604\ yv0ah4a0 or yv0ah4a1
Path:rx5605\ yv0ah5a0
Path:rx5606\ yv0ah6a0
Path:rx5607\ yv0ah7a0
Path:rx5608\ yv0ah8a0
Path:rx5609\ yv0ah9a0
Path:rx560a\ yv0ahca0
Path:rx560b\ yv0ahda0
Path:rx560c\ yv0ahea0
Path:rx560d\ yv0ahfa0
Path:rx560e\ yv0ah8a1
Path:rx560f\ yv0ah9a1
Path:rx560g\ yv0ah0a2 or yv0ahaa0
Path:rx560h\ yv0ah1a2 or yv0ahba0

6.3.1.5 Memory test

If you want to test memory, please run ./tserver -boardtest=memfa or ./memtest.sh
Path:rx560\

6.3.1.6 BIOS Version

If you want to see the version of bios,please run ./atiflash –ai 0 or ./biosinfo.
Path:rx560\

6.3.1.7 BIOS flash

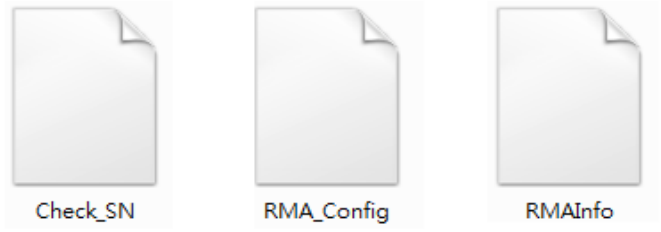
Please use the following command to flash bios and notice the size of character.
Path:rx560\

Command:./atiflash -p -f 0 xxx.rom or ./acom_v1.3 0 xx.rom –f
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.

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

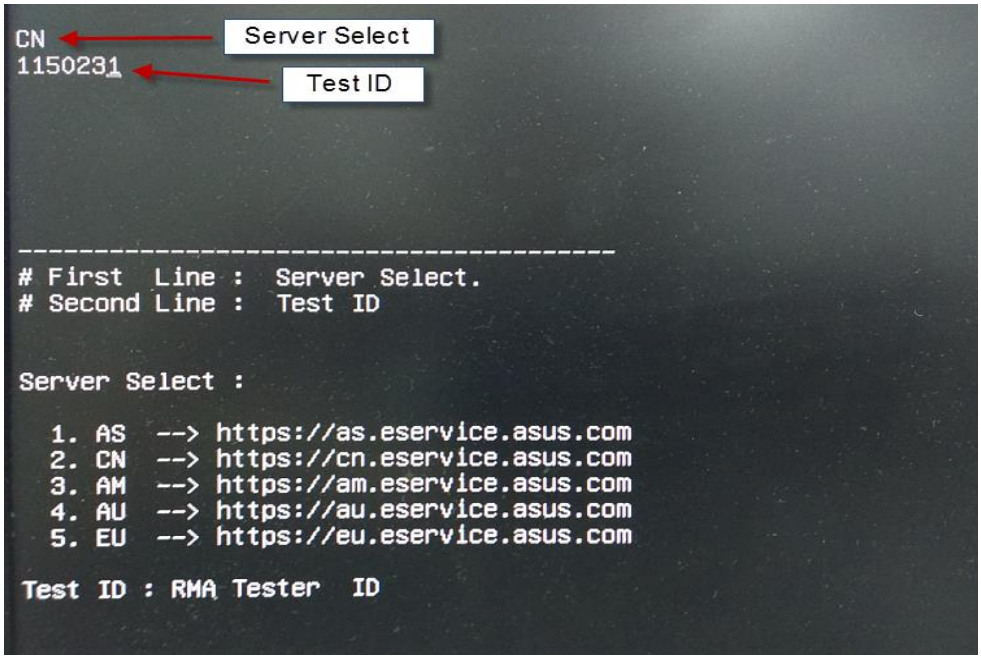
6.4.1 Download and copy RMA upload tool to diag folder by model (It don't need copy after 2018.5 uploaded model).

**The tool of RMA upload tool include 3 files:**



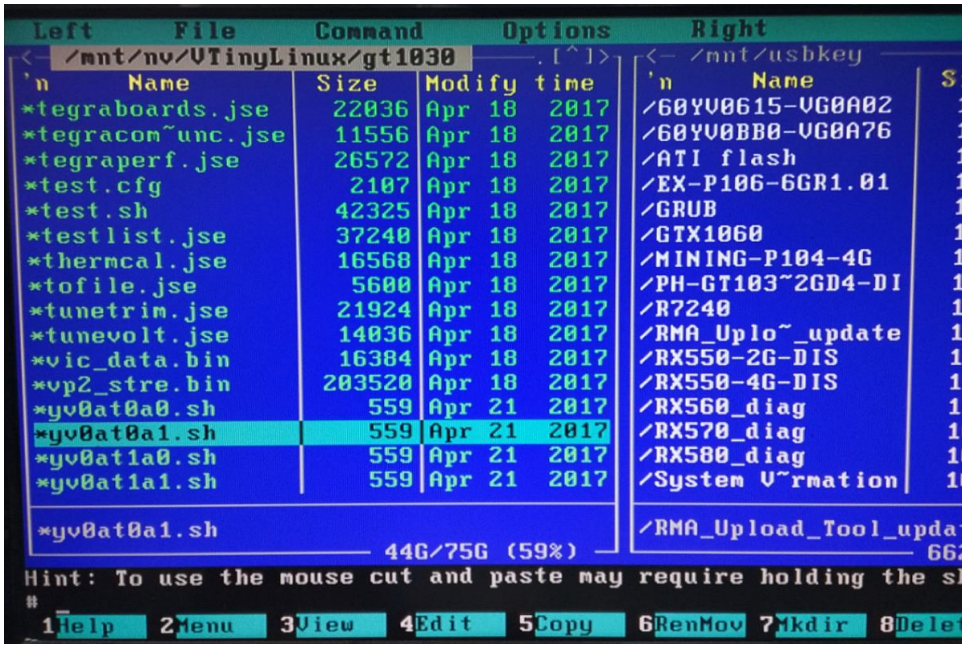

6.4.2 Edit **RMA_Config** file:

First line confirms the address of local sever, Second line is Tester ID.
The **RMA_Config** only need modify one time.

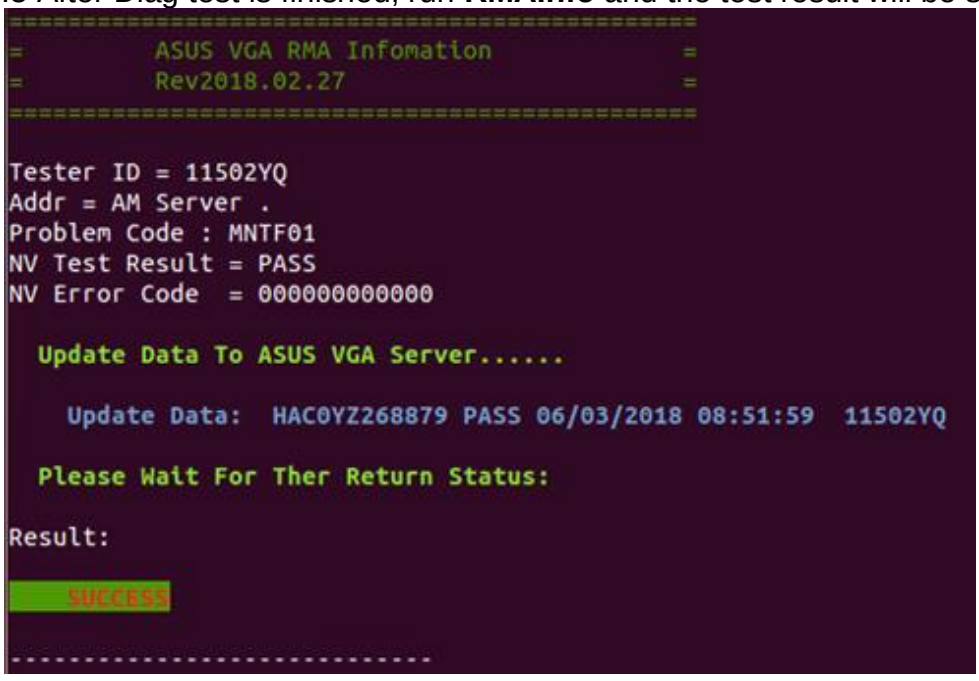



6.4.3 Run **Check_SN** and type in your VGA SN which need to be testing. The SN must be in repair status.


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

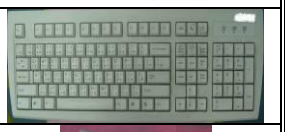
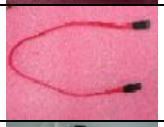



6.4.5 After Diag test is finished, run **RMAInfo** and the test result will be sent to server.




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<br>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 | **Dual link DVI cable (Buying a local DVI cable by yourself)** | | **local** | **1** |  |
| 11 | **HDMI extend cable (Buying a local HDMI cable by yourself)** | | **local** | **1** |  |
| 12 | **ASUS Prime B250-PLUS MB** | | **local** | **1** | |
| 13 | **Display port cable (Buying a local Display port cable by yourself)** | | **local** | **1** |  |