0Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First release	GRMA	Jory_yuan	May.28.2014
1.01		Add new PCBA(YV06P0-A11)	GRMA	Jory_yuan	May.28.2014
1.02		Add new P/N(YV06R2-A01)	GRMA	Jory_yuan	Jun.4.2014
1.03		Add new P/N(YV06R0-A01)	GRMA	Jory_yuan	Jun.11.2014
1.04		Add new P/N(YV06R1-A01)	GRMA	Jory_yuan	Jun.11.2014
1.05		Add new P/N(YV06P1-A01)	GRMA	Jory_yuan	Jun.11.2014
1.06		Add new P/N(YV06K0-A01)	GRMA	Jory_yuan	Jun.18.2014
1.07		Add new P/N(YV06L0-A01)	GRMA	Jory_yuan	Jun.18.2014
1.08		Add new P/N(YV06N0-A01)	GRMA	Jory_yuan	Jun.18.2014
1.09		Add new P/N(YV06M0-A01)	GRMA	Jory_yuan	Jun.25.2014
1.10		Add new PCBA(YV06R0-Q01)	GRMA	Jory_yuan	Jul.2.2014
1.11		Add new P/N (YV06Z0-A01)	GRMA	Jory_yuan	Jul.10.2014
1.12		Add new PCBA(YV06R1-B01)	GRMA	Jory_yuan	Jul.24.2014
1.13		Add new PCBA(YV06K0-A21)	GRMA	Jory_yuan	Jul.30.2014
1.14		Add new P/N(YV0710-A01)	GRMA	Jory_yuan	Aug.7.2014
1.15		Add new PCBA(YV06P0-A21)	GRMA	Jory_yuan	Aug.7.2014
1.16		Add new PCBA(YV06M0-A11)	GRMA	Jory_yuan	Aug.13.2014
1.17		Add new PCBA(YV06R0-B01)	GRMA	Jory_yuan	Aug.13.2014
1.18		Add new PCBA(YV06Z0-A11)	GRMA	Jory_yuan	Aug.13.2014
1.19		Add new PCBA(YV06P1-A11)	GRMA	Jack fan	Sep.03.2014
1.20		Add new PCBA(YV06K0-A11)	GRMA	Jack fan	Sep.17.2014
1.21		Add new PCBA(YV06P0-B01)	GRMA	Jack fan	Sep.17.2014
1.22		Add new PCBA(YV06Z0-A21)	GRMA	Jack fan	Sep.24.2014
1.23		Add new PCBA(YV06R0-A12)	GRMA	Jack fan	Oct.10.2014
1.24		Add new PCBA(YV06R1-A11)	GRMA	Jack fan	Oct.10.2014
1.25		Add new PCBA(YV06N1-A01)	GRMA	Jack fan	Oct.10.2014
1.26		Add new PCBA(YV06R0-A11)	GTSD	El Li	Oct.16.2014
1.27		Add new PCBA(YV06R2-A11)	GTSD	El Li	Oct.16.2014
1.28		Add new P/N (YV07G0-A01)	GTSD	El Li	Oct.16.2014
1.29		Add new PCBA(YV06P0-Q21)	GTSD	El Li	Oct.23.2014
1.30		Add new PCBA(YV06R1-B11)	GTSD	El Li	Nov.13.2014
1.31		Add new PCBA(YV06P1-Q11)	GTSD	El Li	Nov.21.2014
1.32		Add new PCBA(YV06N2-A01)	GTSD	Mao Lu	Dec.4.2014

Authorize by		Review by		Originator By	Maico

1.33		Add new PCBA(YV06M0-U12)	GTSD	Mao Lu	Dec.26.2014
1.34		Add new PCBA(YV06R2-Q12)	GTSD	Mao Lu	Dec.26.2014
1.35		Add new PCBA(YV06N2-A02)	GTSD	Mao Lu	Jan.15.2015
1.36		Add new PCBA(YV0710-A11)	GTSD	Mao Lu	Jan.15.2015
1.37		Add new PN(YV06Z0-B11)	GTSD	Mao Lu	Mar.17.2015
1.38		Add new PN(YV06R1-B21)	GTSD	Mao Lu	Mar.17.2015
1.39		Add new PN(YV06R2-A23)	GTSD	Mao Lu	Mar.17.2015
1.40		Add new PN(YV06Z0-A32)	GTSD	Mao Lu	Mar.19.2015
1.41		Add new PCBA(YV06P0-A32)	GTSD	Mao Lu	Apr.9.2015
1.42		Add new PCBA(YV06K0-A32)	GTSD	Mao Lu	Jun.10.2015
1.43		Add new PCBA(YV06K0-Q12)	GTSD	Mao Lu	Jun.10.2015
1.44		Add new PCBA(YV06R1-B33)	GTSD	Mao Lu	Jun.10.2015
1.45		Add new PCBA(YV06P1-A21)	GTSD	Mao Lu	Jun.10.2015
1.46		Add new PCBA(YV06R0-B21)	GTSD	Mao Lu	Jun.10.2015
1.47		Add new PCBA(YV06R0-R11)	GTSD	Mao Lu	Jun.10.2015
1.48		Add new PCBA(YV06M0-A22)	GTSD	Mao Lu	Sep.9.2015
1.49		Add new PCBA(YV06N1-A11)	GTSD	Mao Lu	Sep.9.2015
1.50		Add new PCBA(YV06R0-R21)	GTSD	Mao Lu	Sep.9.2015
1.51		Add new PCBA(YV06R0-B11)	GTSD	Mao Lu	Sep.9.2015
1.52		Add new PCBA(YV06Z0-R11)	GTSD	Mao Lu	Sep.9.2015
1.53		Add new PCBA(YV06N1-A21)	GRTD	Xiaoming_Lu	Sep.24.2015
1.54		Add new PCBA(YV06Z0-B22)	GRTD	Xiaoming_Lu	Oct.22.2015
1.55		Add new PCBA(YV06K0-Q32)	GRTD	Xiaoming_Lu	Oct.22.2015
1.56		Add new PCBA(YV06P0-Q34)	GRTD	Xiaoming_Lu	Nov.6.2015
1.57		Add new PCBA(YV06Z0-B32)	GRTD	Xiaoming_Lu	Dec.2.2015
1.58		Add new PCBA(YV06M0-Q22)	GRTD	Xiaoming_Lu	Feb.5.2016
1.59		Add new PCBA(YV06R2-A34)	GRTD	Xiaoming_Lu	Feb.5.2016
1.60		Add new PCBA(YV06L0-A21)	GRTD	Xiaoming_Lu	Feb.5.2016
1.61		Add new PCBA(YV06P1-A31)	GRTD	Xiaoming_Lu	Feb.5.2016
1.62		Add new PCBA(YV0710-A42)	GRTD	Xiaoming_Lu	Feb.5.2016
1.63		Add new PCBA(YV06P0-A44)	GRTD	Xiaoming_Lu	Feb.5.2016
1.64		Add new PCBA(YV06P0-A54)	GRTD	Xiaoming_Lu	Mar.4.2016
1.84		Add new PCBA(YV06N1-A31)	GRTD	Maico_zhang	Dec.19.2016
1.85		Add new PCBA(YV06N2-A12)	GRTD	Maico_zhang	Dec.19.2016
1.92		Add new PCBA(YV06N2-A22)	GRTD	Maico_zhang	Aug.17.2017
1.93		Add new PCBA(YV06N3-A01)	GRTD	Maico_zhang	Aug.30.2017
1.97		Add new PCBA(YV06N3-A11)	GRTD	Maico_Zhang	Mar.16.2018

1.Objectives

Create test procedure.

2.Scope

Model: GT730

PN:YV06P0(A01&A11&A21&B01&Q21)YV06P1(A01&A11&Q11)YV06R0(A01&Q01&A12&A11)YV06R1(A01&B01&A11&B11)YV06R2(A01&A11)YV06K0(A01&A21&A11)YV06L0(A01)YV06N0(A01)YV06M0(A01&A11)YV06Z0(A01&A11&A21)YV0710(A01)YV04H1(A44)YV06N1(A01&A11&A21&A31)YV07G0(A01) YV06M0(U12) YV06R2(Q12) YV06N2(A02&A12&A22)YV0710(A1) YV06Z0(B11) YV06R1(B21) YV06R2(A23)YV00Z0(A32) YV06P0(A32) YV06K0(A32)YV06K0(Q12)YV06R1(B33)YV06P1(A21)YV06R0(B21)YV06R0(R11) YV06M0(A22) YV06R0(B11) YV06R0(R21) YV06Z0(R11) YV06Z0(B22) YV06K0(Q32) YV06P0(Q34) YV06Z0(B32) YV06M0(Q22) YV06R2(A34) YV06P0(A44) YV06L0(A21) YV06P1(A31) YV0710(A42) YV06P0(A54) YV06N3(A01) YV06N3(A11)

3.Test Item

3.1 Diagnostic test in Linux system

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. Please use platform (**P7H55-M/USB3**) to test in LINUX or Windows.

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 7 test environment by yourself).

6.2 Fixture connect

6.2.1 Install Intel P7 CPU & CPU Fan.
6.2.2 Install DDR3 Memory to DIMM1~4.
6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
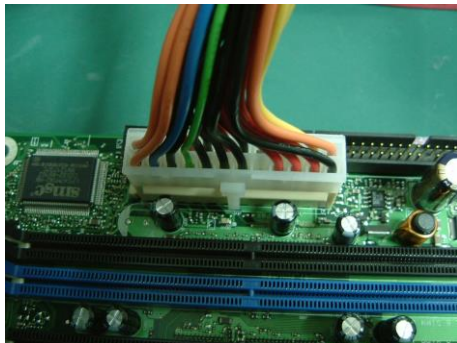6.2.4 Plug VGA Card GT730 into PCIEX16.
6.2.5 Connect power con of VGA card & Power supply via bundled power cable.
6.2.6 Connect SATA HDD with SATA CON.

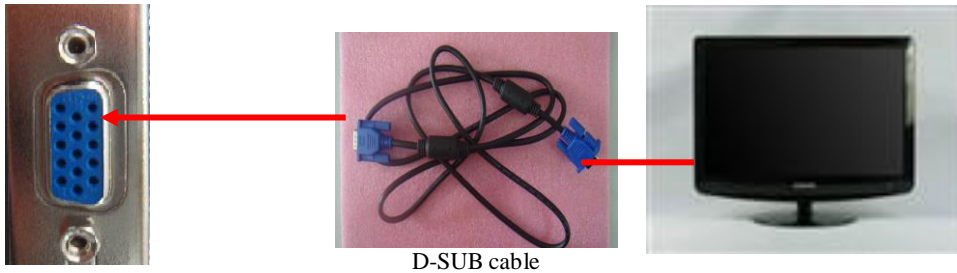6.2.7 Plug 4PIN 12V (1200W) power cable into CON12V.
6.2.8 Plug ATX Power (1200W) on Power Connector.

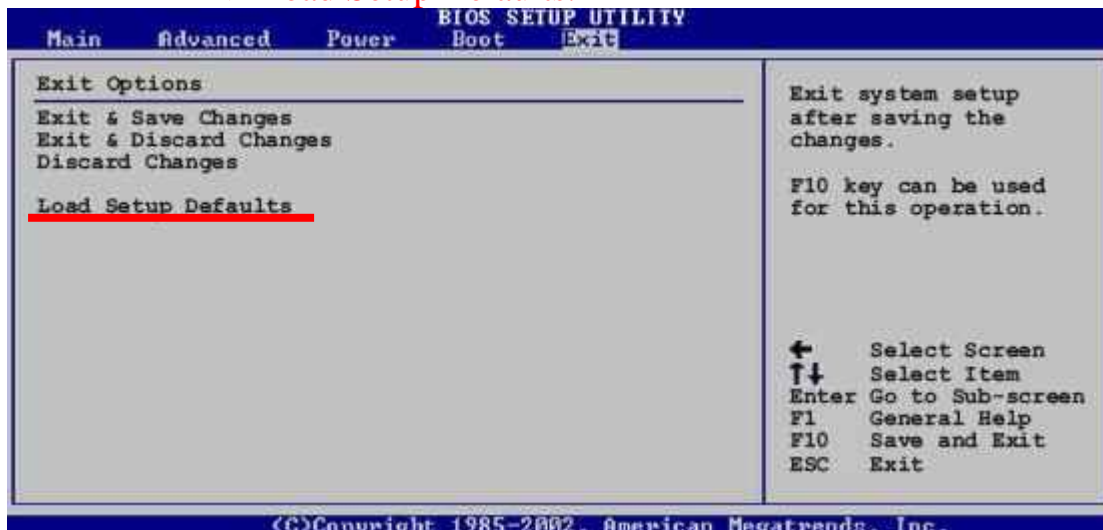## 6.3 Diagnostic test in linux system

6.3.1 Please connect LCD monitor & card's D-SUB CON via a D-SUB cable.

D-SUB cable

6.3.2 Press Power Switch then turn on power button.

6.3.3 Press "Del" to enter CMOS setup menu while boot screen is displaying.

EXIT -> Load Setup Defaults.

6.3.4 System will reboot, select linux to run test program.

Path:GT730\ yv06p0a0.sh or yv06p0a1.sh

Path:GT7301\yv06r2a0.sh

Path:GT7302\yv06p1a0.sh or yv06r0a0.sh or yv06r0q0.sh or yv06r0b0.sh

Path:GT7303\yv06r1a0.sh or yv06r1b0.sh

Path:GT7304\yv06k0a0.sh or yv06k0a2.sh or yv06k0a1.sh or yv06k0a3.sh or yv06k0q1.sh

Path:GT7305\yv06l0a0.sh

Path:GT7306\yv06n0a0.sh

Path:GT7307\yv06m0a0.sh or yv06moa1.sh or yv06m0u1.sh or yv07m0a2.sh

Path:GT7308\ yv06z0a0.sh

Path:GT7309\yv0710a0.sh

Path:GT730a\yv06p0a2.sh or yv06p0b0.sh or yv06p0q2.sh or yv07p0a3.sh or yv06p0a4.sh

Path:GT730b\yv06z0a1.shoryv06z0a2.sh yv06z0b1.sh yv06z0a3.sh
Path:GT730c\yv06p1a1.sh or yv06p1q1.sh
Path:GT730d\yv06n1a0.sh or yv06n2a0.sh or yv06n1a1.sh or yv06n1a2.sh or yv06n1a3.sh or yv06n2a1.sh or yv06n2a2.sh or yv06n3a0.sh or yv06n3a1.sh
Path:GT730e\yv06r1a1.sh or yv06r0a1.sh or yv06r1b1.sh or yv06r1b2.sh or yv06r1b3.sh
Path:GT730f\yv06r0a1.sh or yv06r0b1.sh
Path:GT730g\yv06r2a1.sh or yv06r2q1.sh or yv06r2a2.sh
Path:GT730h\yv07g0a0.sh
Path:GT730i\yv0710a1.sh or yv0710a4.sh
Path:GT730j\yv06p1a2.sh
Path:GT730k\yv06r0b2.sh
Path:GT730l\yv06r0r1.sh
Path:GT730m\yv06r0r2.sh
Path:GT730n\yv06z0r1.sh
Path:GT730oyv06k0q3.sh
Path:GT730p\yv06z0b2.sh or yv06z0b3.sh
Path:GT730q\yv06p0q3.sh
Path:GT730r\yv06m0q2.sh
Path:GT730s\yv06r2a3.sh
Path:GT730t\yv06l0a2.sh
Path:GT730u\yv06p1a3.sh
Path:GT730v\yv06p0a5.sh

Run the test program refer to the prompt.

6.3.5 Memory test

If you want to test memory, please run ./mats -e xx or ./mats –c xx
Where,-c xx------- only xx% of frame buffer is detected.
Path:GT730\

6.3.6 BIOS flash

Please use the following command to flash bios and notice the size of character.
Path:GT730\
Command:./nvflash xxx.rom -4 -5 -6 -A -y
Notice:
If you can not flash bios because of the bios locked, please use ./nvflash.exe /r or ./nvflash -r to unlock bios. And then, please use ./nvflash.exe /w or ./nvflash -w to lock bios after updating latest bios.

6.3.7 If test OK, NTF test.

7 Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	SAMSUNG 2232MW			1	
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(1200W)			1	
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	
6	Heat sink + FAN	22-240000160	local	1	
7	DDR3 1333 2G	20-TT2605618	local	4	
8	SATA HDD			1	
9	SATA HDD Cable	14-000107070		1	
10	PCIEX16 VGA CARD			1	
11	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	
13	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
15	DVI-HDMI	04G460002400 /04G460002450		1	
17	P7H55-M/USB3	80-MIBBKA-G0*	ASUS	1	