Product Validation Report

Product Name : **RGT2422AMII**

Model Name : **RGT2422AMII**

Product Stage : **MP**

Product No. : **1A2A24335321601**

Revision :**0**

Prepared By : **Jim Lin** **Date : 2026/10/05**

Approved by : **Rongchi_liao** **Date : 2026/10/05**

Index & Content			
Part	**Test Item**	**Descriptions / Criteria**	**Result**
F/W	Burn in Test	Test and verify monitor's stability Criteria: 1. No any failure during the test. 2. Document everything.	PASS
Reliability	Power On/Off Repetition	To check that there is no part breakage, deterioration or variation of characteristics, or other abnormalities when the power supply is turned on/off as assumed to occur during product usage. Criteria: No breakage or obvious performance deterioration shall be found during or after the test.	PASS
Note: "As the electrical specifications were fully evaluated and tested in accordance with internal Diva standards, the verification results sufficiently address the intended use requirements and are therefore considered equivalent to a validation report."			

Burn in Test

Test Engineer	Jim Lin	Date	2026/10/1-10/2	Stage	Result
				MP	Pass

Test Purpose

24 hours burn in test to detecting early failures in a population of product.

Evaluation Unit Level

Temperature:25±3℃ / Humidity:50±10RH%

Evaluation Equipment

Computer	Windows 10- 32bit i7-8700		
Graphics Card	NVIDIA GTX 1060 3GB - 23.21.13.9135		
Measure Equipment	6700 Series Programmable AC Power Source Calibration Date : 2027.05.4		CA-410 Calibration Date: 20272/17

Evaluation Unit Level

LCD	AUO G240UAN01.2
Support Input Signal	DP
Serial Number	100025300004,100025300005
F/W Version	1.27

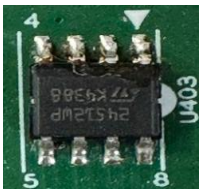
Description of Changes

SN:100025300004

Old
BR24G512FJ-3AGTE2 (ROHM)
3A24G51201Y
IC (BR24G512FJ-3AGTE2,SOP-J8,ROHM)



New
M24512-WMN6TP 7B.24512.002 (ST)
3AM24512W1Y
IC (M24512-WMN6TP,SO8N,ST)

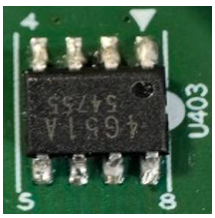


SN:100025300005

Old
BR24G512FJ-3AGTE2 (ROHM)
3A24G51201Y
IC (BR24G512FJ-3AGTE2,SOP-J8,ROHM)



New
BR24G512FJ-5AE2 (ROHM)



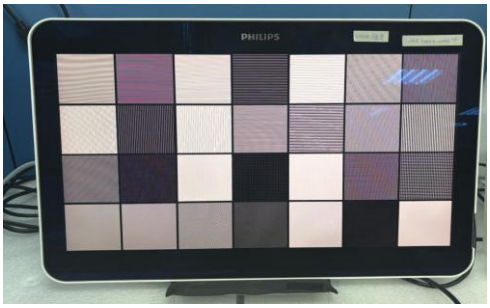
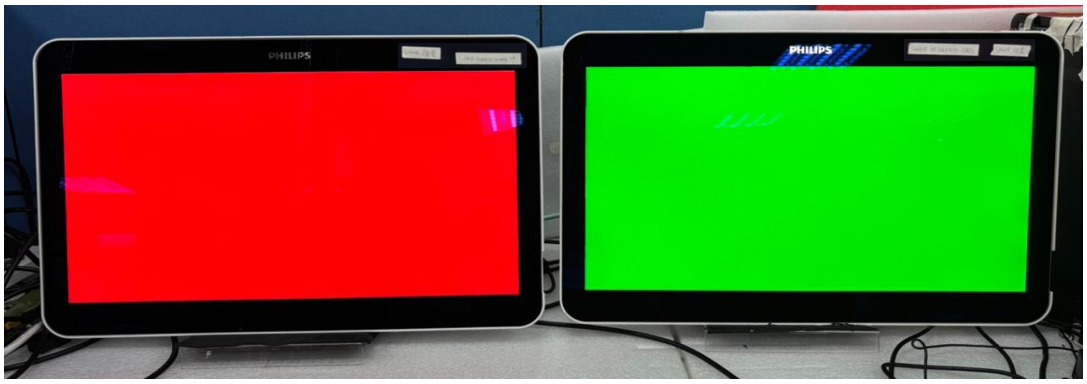
Test Standard

All products must go through 24H burn-in test procedure

Criteria

The Display shall be set calibrated to 200 cd/m2+/- 5% at the centre of the screen for DDL 255
1) No shut down, black screen, No any failure during the test
2) document everything.

Burn in Test						
Procedure					**Result**	**Note**
1. Set the monitor to burn in mode.					**Pass**	
2. Make sure burn in mode works on monitor.					**Pass**	
3. Check to see the monitor works properly.					**Pass**	
4. Test time more than 24 hrs.					**Pass**	
5. Make sure burn in mode works fine when turn off on AC/DC power 10 times.					**Pass**	
6. Make sure there's no abnormalities happen during the test.					**Pass**	
7. Please don't remove power, except for AC power test.					**Pass**	
8. AC Off can cancel factory mode.					**Pass**	
Check Item					**Result**	**Note**
1. Confirm that the screen display is normal.					**Pass**	
2. Confirm that there is no noise on the screen.					**Pass**	
3. AC On-Off is operating normally.					**Pass**	
4. Measure luminance before and after test (center point/DDL255)					**Pass**	
Measure Luminance (200 cd/m2+/- 5%)					**Result**	**Note**
SN:100025300004	Before	**200.63 cd/m2**	After	**198.89 cd/m2**	**Pass**	
SN:100025300005		**198.83 cd/m2**		**199.33 cd/m2**	**Pass**	

Photo of test	
Before Test	**Note**
SN:100025300004  SN:100025300005 	
Burn in Test	**Note**
Show Test Pattern Command→0x01= ON cyclical 	
After Test	**Note**
 	

Power AC on/off Test

Test Engineer	Jim Lin	Date	2026/10/2-10/5	Stage	Result
				MP	PASS

Test Purpose

To check that there is no part breakage, deterioration or variation of characteristics, or other abnormalities when the power supply is turned on / off as assumed to occur during product usage。

Evaluation Unit Level

Temperature 24±2(ºC)/Humidity 50±10%RH

Evaluation Equipment

Computer	WIN10 32BIT_i7-8700		
Graphics Card	nVIDIA GeForce GTX 1060 - 13.8813		
Measure Equipment	DC Power Source 3303D Calibration Date : 2027.05.4		

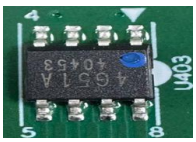
Evaluation Unit Level

LCD	AUO G240UAN01.2
Support Input Signal	DP
Serial Number	100025300004,100025300005
F/W Version	1.27

Description of Changes

SN:100025300004

Old
BR24G512FJ-3AGTE2 (ROHM)
3A24G51201Y
IC (BR24G512FJ-3AGTE2,SOP-J8,ROHM)

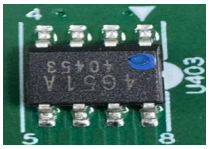


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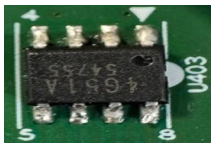


SN:100025300005

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BR24G512FJ-3AGTE2 (ROHM)
3A24G51201Y
IC (BR24G512FJ-3AGTE2,SOP-J8,ROHM)



New
BR24G512FJ-5AE2 (ROHM)

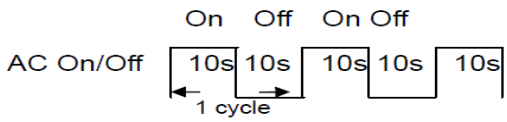


Criteria

1. No breakage or obvious performance deterioration shall be found during the test or after testing.
2. Touch operation, data communication and monitor power ability are normal during the test.
3. No any failure.

Test Condition：

1. Resolution :	1920x1080/60Hz (DP)
2. Applied Voltage :	24VDC (20.5 VDC to 30.5 VDC)
3. Test times of On/Off :	96 Hours
4. LCD On period :	10 sec
LCD Off period :	10 sec
5. Test Pattern :	General Pattern
7. Test environment curve :	

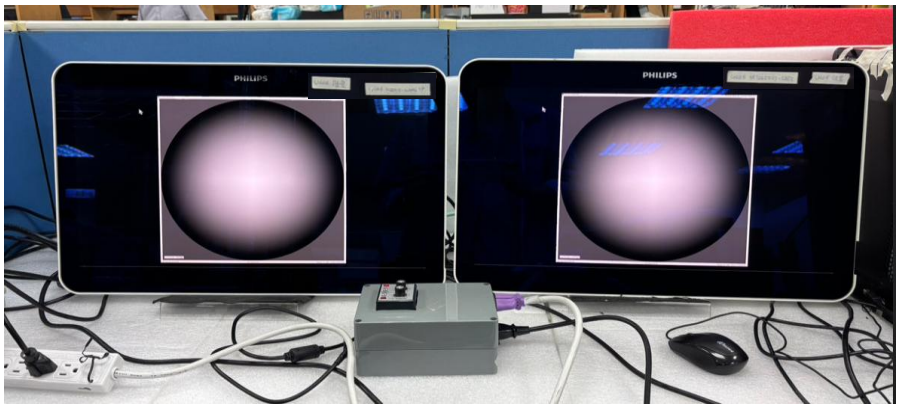


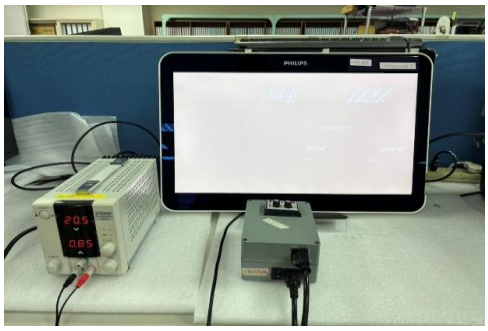
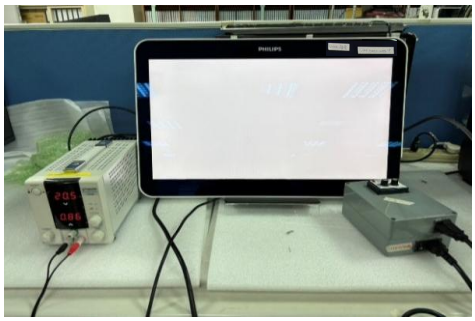
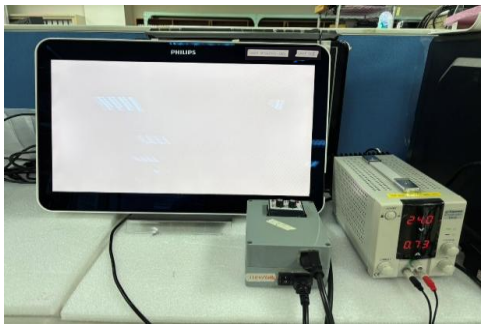
Test Information			
Source Type	Desktop	DC Power Supply	Timer Relay
Processor	Inrel® Core™ i7-10700 CPU @2.9GHz	3303D	
O.S.	Windows 10 Pro 64bit		
Graphics Card	NVIDIA GTX 1060		

Test Condition					
Power	24VDC (20.5 VDC to 30.5 VDC)	Source	DisplayPort	Cycle	more than 15300 cycles

Panel ON/OFF Sequence Spec		
Test procedure	Result	Note
1. Connect the test machine to the switch box.	Pass	100025300004_OK 100025300005_OK
2. Set the AC Power Source, boot for 10 seconds, shut down for 10 seconds.	Pass	
3. Set I1 to record the change in brightness and confirm if the brightness changes regularly.	Pass	
4. Verify Power On/Off for four days (96hrs).	Pass	
5 Please confirm the following items after verification.	Pass	
Function Check	**Result**	**Note**
Image Quality Check	Pass	100025300004_OK 100025300005_OK
Support Source Check	Pass	
LED Status	Pass	
Normal Boot-Up	Pass	
Normal Shutdown	Pass	
Normal Reboot	Pass	
No Flash	Pass	
Unknown condition	Pass	
No video artifacts	Pass	

Repetitive Power On / Off		
Test procedure	Result	Note
1. Connect the display to the ultrasound cart and complete the setup.	Pass	100025300004_OK 100025300005_OK
2. Disconnect the power supply while the display is operational, and reconnect it after 30 seconds.	Pass	
3.Check if the screen displays normally without flickering, noise, or any unknown issues.	Pass	
4. Repeat steps 1 – 3 and perform the process 10 times.	Pass	

Power ON/OFF	Note
	

During Test 20.5 VDC		Note
100025300004	100025300005	
		
During Test 24 VDC		
100025300004	100025300005	
		
During Test 30.5 VDC		
100025300004	100025300005	
		

Test time for 96 hrs
Power on 10 sec
Power off 10 sec
Total 17280 cycles