VM15_Brightness Stability Test

Test Engineer	Jim Lin	Date	2026/7/15	Stage	Result
				EP	Pass

Test Propose

Test and verify the monitor's Brightness stability.

Evaluation Unit Level

Temperature: 25 degree ,Humidity:50±10RH%

Evaluation Equipment

Computer OS	Windows 10- 32bit Intel core i7-8700		
Graphics Card	NVIDIA GTX 1060 3GB - 23.21.13.9135		

Evaluation Unit Level

OLED Panel	LG type: LW270AHQ-ERG2	
Power Board	2AAD505R638	
F/W Version	1.01.10	
Serial Number	100025500090	
Test Equipment	Chamber_TERCHY MHE 1728LJDA	Calibration Due Date : 2027.5.4
	KONICA Color Display Analyzer CA-410	Calibration Due Date : 2027.6.17

Criteria

To verify the long-term brightness stability of the OLED display during a continuous 8 hours operation.The display shall comply with the defined brightness stability requirements throughout the test period。(the luminance degradation shall be 250 cd/m2 +/- 10% of Brightness)

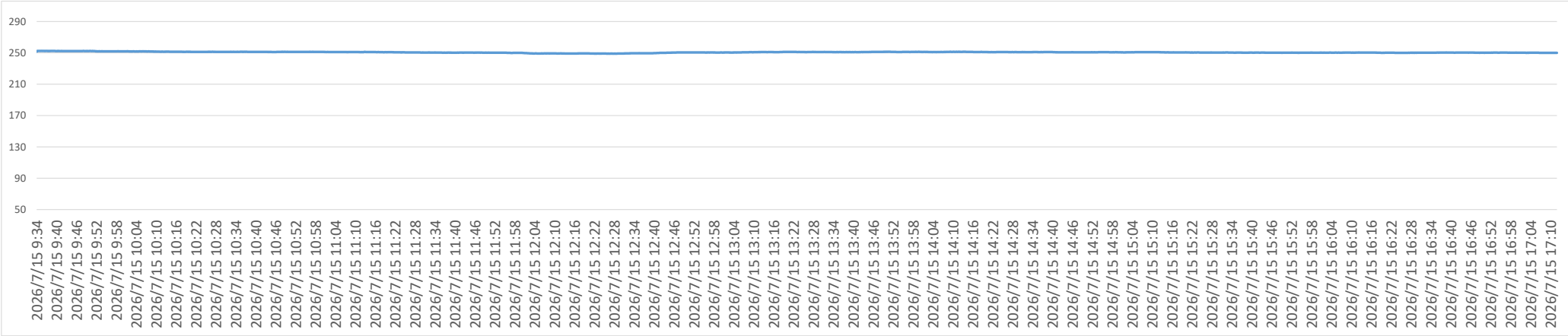
Test Condition

Brightness	250 cd/m2 (Center 1 point, typ.) with illuminated area up to 25% of screen area.				
Temperature	25°C ± 3°C				
Test Pattern	single centre 25% area white box screen				
Humidity	50% RH ± 10%	Resolution	1920x1080	Office	Office

Test Procedure	Result	Note
1. Switch the display to a full-white screen.	Pass	NA
2. Warm up the display for 30 minutes	Pass	
3. Put the Display for testing with below brightness values (single centre 25% area white box screen)	Pass	
4. Measure 250 cd/m2 continuously for 8 hours and record data.	Pass	
5. Draw curve the record data.	Pass	







MAX Brightness	252.54	cd/m2
MIN Brightness	249.05	cd/m2
Brightness gap	3.49	cd/m2
Brightness gap %	1%	
FW:	1.01.10	