

1.0 Reference and Address					
Report Number	240200267SHA-1	Original Issued: 21-Mar-2024	Revised: None		
Standard(s)	ENERGY STAR® Program Requirements for Displays Version 8.0				
Test Methods	All Product Types and Screen Sizes	ENERGY STAR Test Method for Determining Display Energy – Rev. Nov-2021			
	Enhanced Performance Displays	International Committee for Display Metrology (ICDM) Information Display Measurements Standard – Version 1.03			
	Displays Claiming Full Network Connectivity	CTA-2037-A, Determination of Television Set Power Consumption			
	Displays Claiming High Dynamic Range (HDR)	VESA High-performance Monitor and Display Compliance Test Specification (DisplayHDR CTS) Version 1.0			
Test Materials	"IEC 62087:2011 Dynamic Broadcast-Content Signal" shall be used for testing, as specified in IEC 62087:2011, Section 11.6, "On (average) mode testing using dynamic broadcast-contentvideo signal."				
	"VESA FPDM2" shall be used only for products that cannot display the IEC 62087:2011 Dynamic Broadcast-Content Signal.				
Reference Standard	IEC 62301:2011, "Household electrical appliances - Measurement of standby power"				
Applicant	Top Victory Electronics (Taiwan) Co.,Ltd.	Manufacturer 1	TPV Electronics(Fujian) Co., Ltd		
Address	10F.,No.230,Liancheng Rd. Zhonghe City. Taipei Country 23553	Address	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province		
Country	Taiwan	Country	P.R.China		
Contact	David.Cheng	Contact	Winter.Feng		
Phone	+886-2-82261668-2375	Phone	+86-591-85285555		
FAX	+886-2-82261668-2375	FAX	+86-591-85285447		
Email	David.cheng@tpv-tech.com	Email	winter.feng@tpv-tech.com		
Manufacturer 2	TPV Display Technology (Beihai) Co.,Ltd	Manufacturer 3	TPV Display Technology (China) Co., Ltd.		
Address	China Electronic Beihai Industry Park,Northeast of the Crossing between Taiwan Road and Jilin Road Beihai City,Guangxi	Address	No.106 Jinghai 3 Rd., BDA, Beijing City		
Country	China	Country	China		
Contact	Jiaping Chen	Contact	Nancy.Shang		
Phone	86-799-3132666-8255	Phone	86(10)64326699-8312		
FAX	86-779-2232270	FAX	NA		
Email	jiaping.Chen@tpv-tech.com	Email	lijia.shang@tpv-tech.com		

1.0 Reference and Address

Manufacturer 4	L&T Display Technology (Fujian) Ltd.	Manufacturer 5	TPV Display Technology(Wuhan)Co.,Ltd
Address	Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian	Address	Unique No.11 Zhuankou Development District of Economic Technological Development Zone Wuhan
Country	China	Country	China
Contact	Shan Xu	Contact	Zhe.Zhou
Phone	86(591)8651-5556	Phone	86(27)-6884 3822
FAX	86(591)8651-5556	FAX	86(27)-6884 3822
Email	shan.xu@lntdisplayfj.com	Email	zhe.zhou@tpv-tech.com

2.0 Product Description

Product	Display (LCD Monitor)				
Brand Name	AOC				
Description	The product covered by this report is a Display (LCD Monitor)				
Models	U32U3CV;U32U3;U32U3D;U32U3D(U32U3)				
Model Similarity	Model name: U32U3CV, U32U3, U32U3D Model number: U32U3CV, U32U3, U32U3D U32U3CV: with Ethernet port. U32U3, U32U3D: without Ethernet port.				
Ratings	100-240Vac, 50/60Hz, 3.0A				
Other Ratings	NA				
Date Available	03/21/2024	Market Availability	Yes	OEM	TPV Electronics(Fujian) Co. Ltd
Major Markets	Canada,Japan,Switzerland,Taiwan,United States				
Trans Type	Initial Certification: Model Meets ENERGY STAR Requirements				
Notes					
UPC					
Reason no UPC	UPC Code Not Yet Assigned - Partner Will Provide Later				
Other reason no UPC					
Additional Model Details (Optional)	Model Name and Number	Identifying Information			
Original Certificate Actual Issued Date for Model Tested (Only Applies to Revised Reports)			NA		

3.0 Product Photographs

Photo 1 - External View (front)

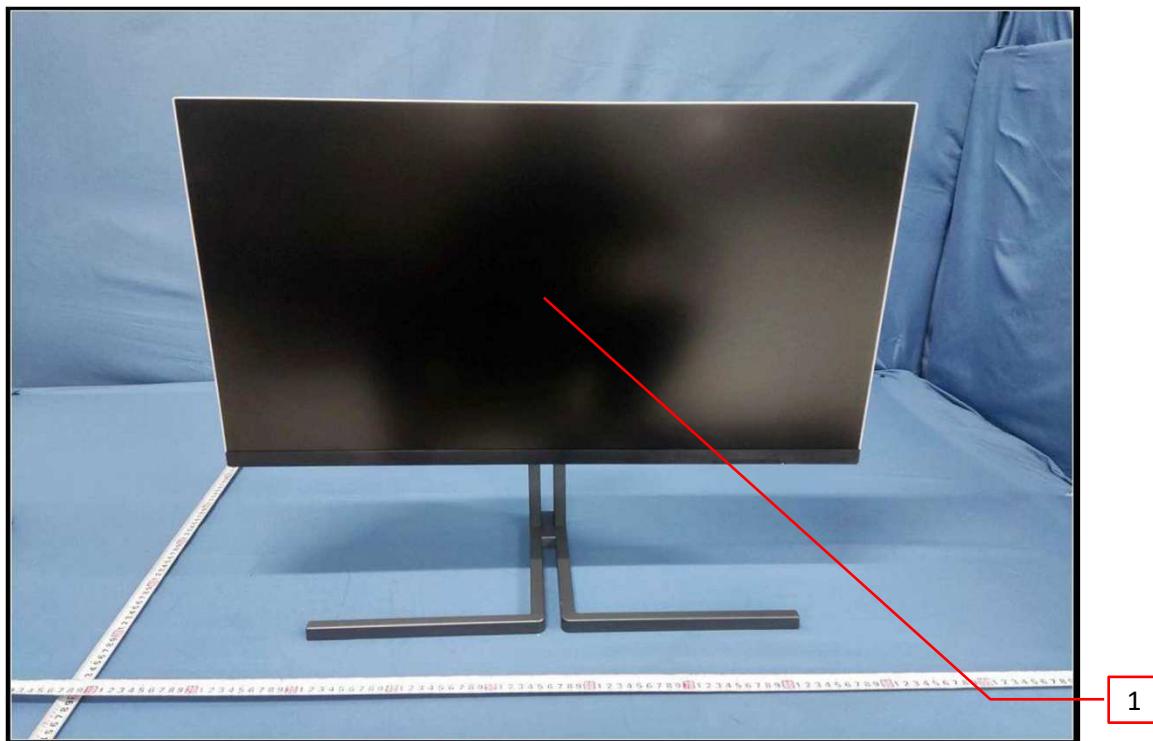


Photo 2 - External View (back)



3.0 Product Photographs

Photo 3 - Main Board (TPV/L&T/ 715GE255)

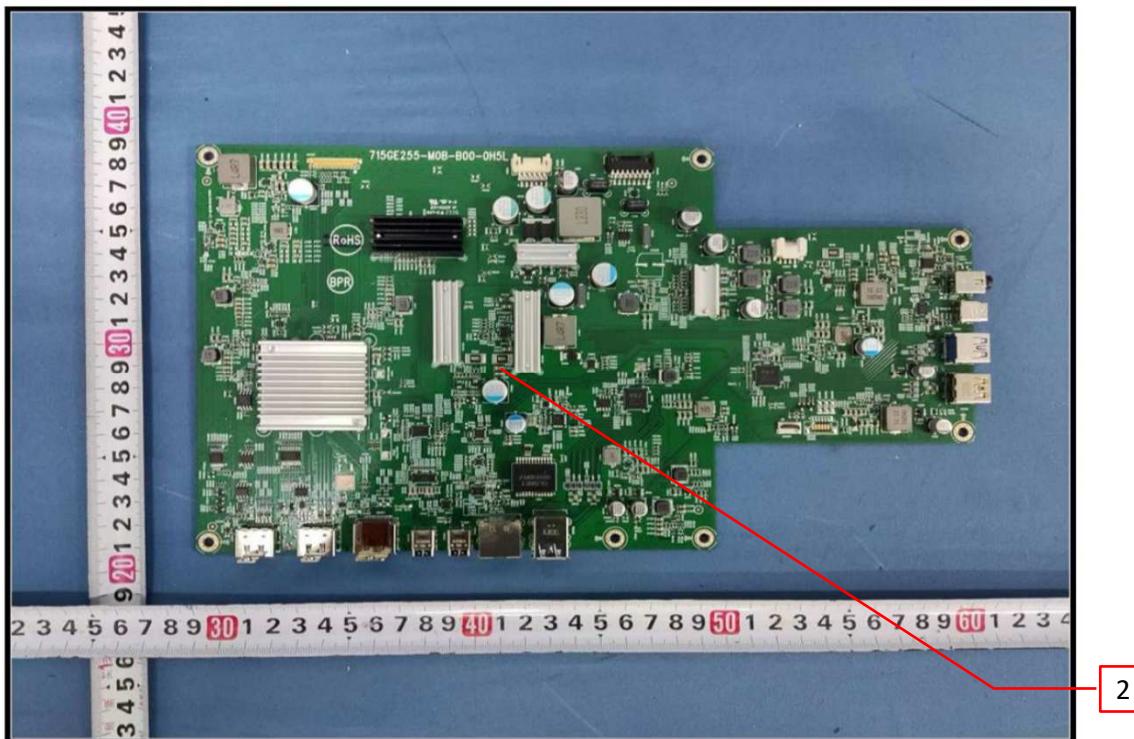
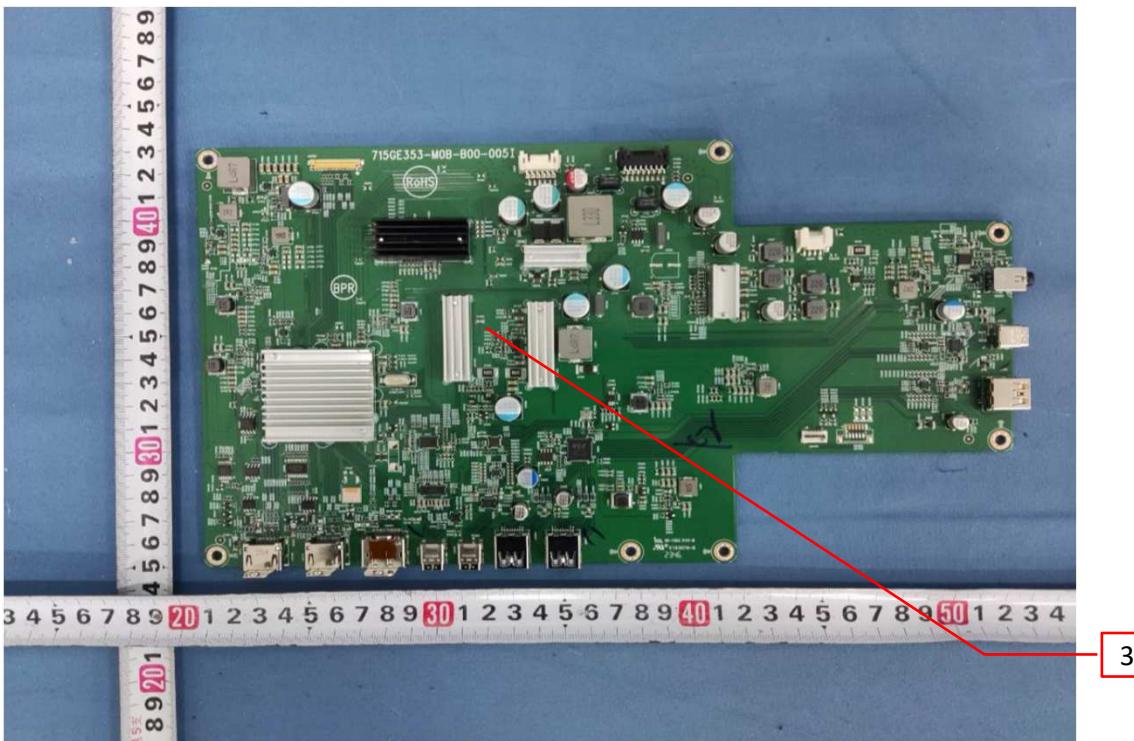
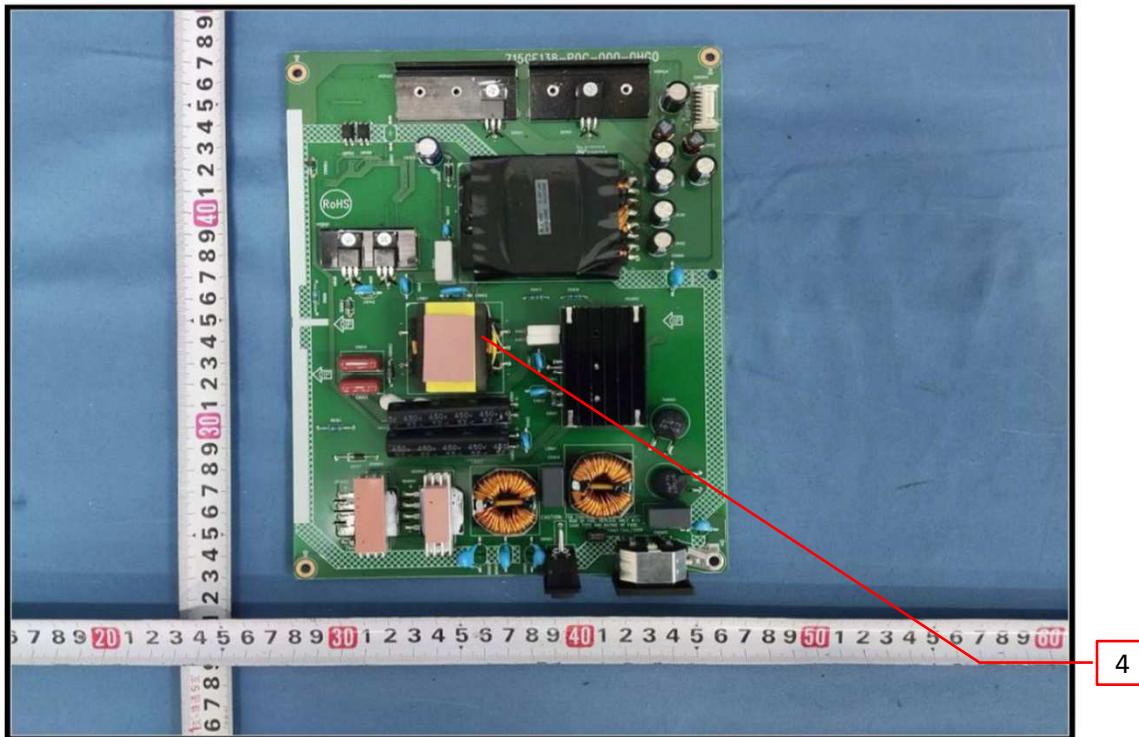


Photo 4 - Main Board (TPV/L&T/ 715GE353)



3.0 Product Photographs

Photo 5 - Power Board (TPV/L&T/ 715GE138)



4.0 Critical Components

Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	LCD Panel	LGD	LM315WR5	31.5 inches, TFT type, with LED backlight	NR
3	2	Main Board	TPV/L&T	715GE255	I/P: 19Vdc, 8A 715GE255 is tested model.	NR
4	3		TPV/L&T	715GE353		NR
5	4	Power Board	TPV/L&T	715GE138	I/P: 100-240Vac, 50/60Hz, 3A; O/P: 19Vdc, 8A	NR

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates: a) Unlisted and only visual examination is necessary or b) marks are not required to be verified.

5.0 Critical Unlisted CEC Components

Periodic Evaluation of Critical Unlisted Components by the Intertek Component Evaluation Centers (CEC) is not required under the INTERTEK ENERGY STAR Program.

6.0 Critical Features

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the ENERGY STAR® Program Requirements.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

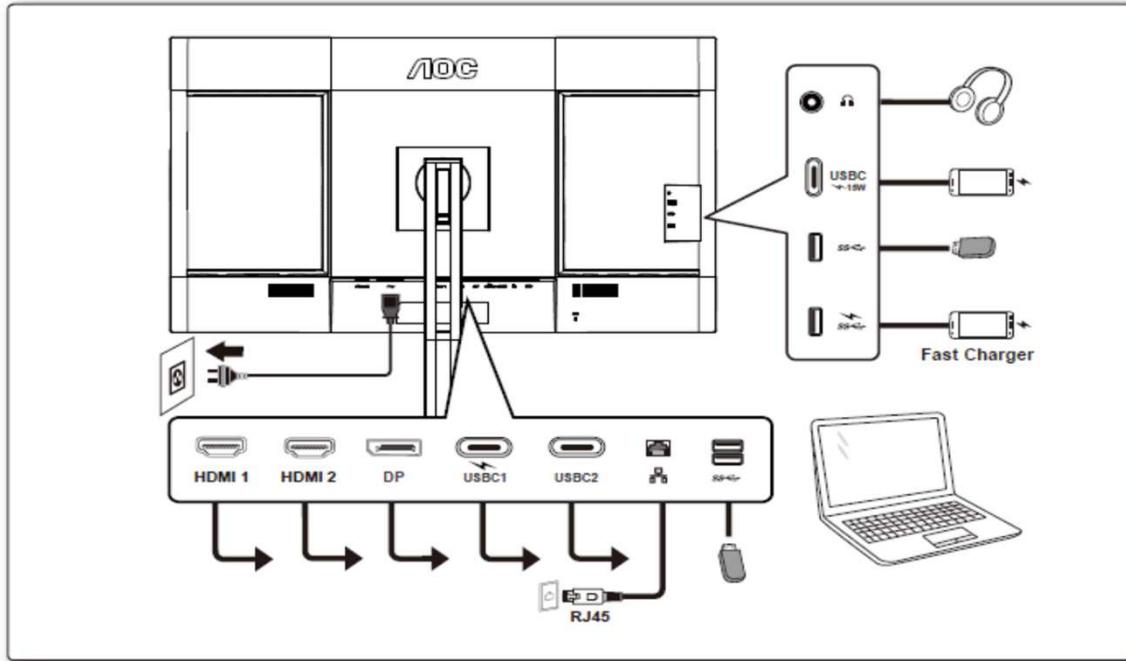
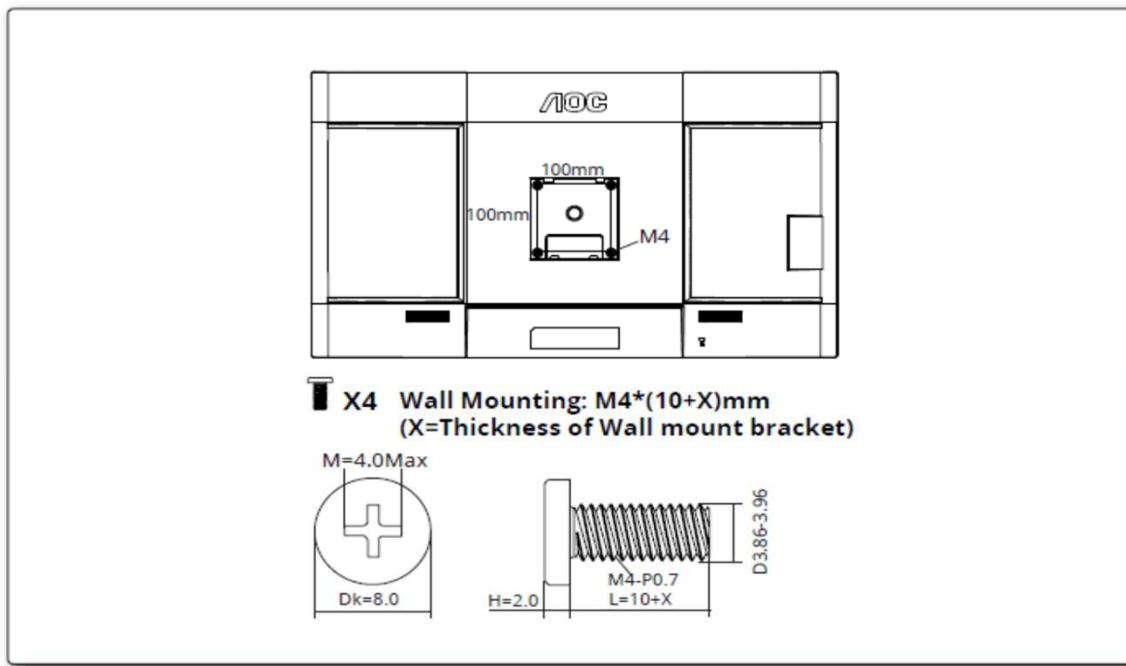
Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Product Safety Compliance - NA
2. EMI Compliance - NA
3. Schematics - NA
4. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustration No(s). 1 for details.
5. Package Markings - NA
6. Warranty Information - NA
7. Marking Label - Refer to Illustration No.2 for details.

7.0 Illustrations

Illustration 1 - Installation, Operating and Safety Instructions

2



7.0 Illustrations

Illustration 2 - Marking Label



8.0 Test Summary

Evaluation Period	3/21/2024 - 3/21/2024	Project No.	240200267SHA
Sample Rec. Date	5-Mar-2024	Condition	Prototype
Test Location	Intertek Testing Services Shanghai Limited (1105997) Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China		
Test Procedure	Testing Lab	Test type	Qualification
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following requirements were evaluated:			
Required Submittal Information		Submittal Data	
Model Name and/or Number tested		U32U3CV	
Date tested		03/21/2024	
Serial number of Unit tested		1 sample	
ENERGY STAR Specification Version*		8.0	
Product Type*		Monitor	
Tiled Display System			
Maximum Tiled Configuration			
Panel Type*		IPS LCD	
Other Panel Type			
Diagonal Screen Size in*		31.5	
Screen Area_sq_in*		423.94	
Display Contrast Ratio*		1000	
Native Vertical Resolution_lines*		2160	
Native Horizontal Resolution_lines*		3840	
Total Native Resolution megapixels*		8.3	
Native Pixel Density Dp_pixels_sq_in*		19565	
As Tested Screen Refresh Rate Hz*		60	
Maximum Screen Refresh Rate Hz*		60	
Enhanced Performance Criteria*		No	
Color Gamut			
Reported Contrast Ratio at 85 deg Left Horiz Viewing Angle			
Reported Contrast Ratio at 85 deg Right Horiz Viewing Angle			
High Dynamic Range HDR*		DisplayHDR 400	
Other Available Interfaces			
Other Features			
Signal Interface*		DisplayPort 1.4	
Other Interface			
USB C with Power Delivery Supported*		Yes	
Maximum Power Delivery W		96	
Other Power Source			
Does Model Have a Forced Menu at Initial Start up*		No	
Maximum Measured Luminance_cd_m_2*		420.8	
Maximum Reported Luminance_cd_m_2*		400	
As shipped Luminance_cd_m_2		236	
As tested Luminance_cd_m_2*		200	
On Mode Power at 12 Lux at 115 Volts W			
On Mode Power at 300 Lux at 115 Volts W			
Measured On Mode Power at 115 Volts W		30.88	
Reported On Mode Power at 115 Volts W		30.88	
Maximum On Mode Power Limit for Signage Certification W			
Measured Sleep Mode Power at 115 Volts W		0.69	
Reported Sleep Mode Power at 115 Volts W		0.69	
Measured Disconnected Sleep Mode Power at 115 Volts W		0.25	
Maximum Sleep Mode Power Limit for Signage Certification W			
Number of Sleep Modes in Addition to Default Sleep Mode*		0	
Other Mechanism for Automatically Entering Sleep or Off Mode			

8.0 Test Summary

Default_Delay_Time_to_Sleep_min	
Measured_Off_Mode_Power_at_115_Volts_W	0.2
Reported_Off_Mode_Power_at_115_Volts_W	0.2
Measured_Total_Energy_Consumption_at_115_Volts_kWh	98.6
Reported_Total_Energy_Consumption_at_115_Volts_kWh	98.6
Max_Total_Energy_Consumption_Limit_for_Monitor_kWh	99.88
On_Mode_Power_at_12_Lux_at_230_Volts_W	
On_Mode_Power_at_300_Lux_at_230_Volts_W	
Measured_On_Mode_Power_at_230_Volts_W	30.37
Measured_Sleep_Mode_Power_at_230_Volts_W	0.68
Measured_Disconnected_Sleep_Mode_Power_at_230_Volts_W	0.25
Measured_Off_Mode_Power_at_230_Volts_W	0.2
Measured_Total_Energy_Consumption_at_230_Volts_kWh	96.99
True_Power_Factor_PF_During_On_Mode_Testing_at_115_Volts_W	0.9
True_Power_Factor_PF_During_On_Mode_Testing_at_230_Volts_W	0.6
Color_Spaces_Supported*	sRGB,DCI-P3,Other
Available_Signal_or_Data_Interfaces*	Display,HDMI,RJ45,USB
Model_Features*	Built-In Speakers,High Dynamic Range,USB-C
Features_Enabled_in_Default_On_Mode*	Built-In Speakers,High Dynamic Range
Features_Enabled_in_Default_Sleep_Mode*	None
Wireless_Technologies_Supported*	None
Ethernet_Supported*	Gigabit Ethernet (1000 Mbit/s)
Power_Source*	Ac to dc internal power supply
Mechanism_for_Automatically_Entering_Sleep_or_Off_Mode*	Display Power Management Signaling
On_Mode_Power_at_12_Lux_at_100_Volts_50Hz_W	
On_Mode_Power_at_300_Lux_at_100_Volts_50Hz_W	
Measured_On_Mode_Power_at_100_Volts_50Hz_W	30.71
Measured_Sleep_Mode_Power_at_100_Volts_50Hz_W	0.74
Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_50Hz_W	0.25
Measured_Off_Mode_Power_at_100_Volts_50Hz_W	0.2
Measured_Total_Energy_Consumption_at_100_Volts_50Hz_kWh	98.38
On_Mode_Power_at_12_Lux_at_100_Volts_60Hz_W	
On_Mode_Power_at_300_Lux_at_100_Volts_60Hz_W	
Measured_On_Mode_Power_at_100_Volts_60Hz_W	30.73
Measured_Sleep_Mode_Power_at_100_Volts_60Hz_W	0.73
Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_60Hz_W	0.25
Measured_Off_Mode_Power_at_100_Volts_60Hz_W	0.2
Measured_Total_Energy_Consumption_at_100_Volts_60Hz_kWh	98.39

8.0 Test Summary

8.1 Signatures

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.

Completed by:	Sam Li	Reviewed by:	Carl Dong
Title:	Engineer	Title:	Engineer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Company name.

BASIC LISTEE	Top Victory Electronics (Taiwan) Co., Ltd.		
Address	10F.,No.230,Liancheng Rd. Zhonghe City. Taipei Country 23553		
Country	Taiwan	EPA ID	1065104
Product	Display (LCD Monitor)		
Contact	David.Cheng		
Phone	+886-2-82261668-2375		
FAX	+886-2-82261668-2375		
Email	David.cheng@tpv-tech.com		

MULTIPLE LISTEE 1	None		
Address			
Country			
Contact			
Phone			
FAX			
Email			
Brand Name			
Date Available		Market Availability	OEM
Major Markets			
Trans Type			
Notes			
UPC			
Reason no UPC			
Other reason no UPC			
ASSOCIATED MANUFACTURER			
Address			
Country			
MULTIPLE LISTEE 1 MODELS		BASIC LISTEE MODELS	
Additional Model Details (Optional)	Model Name and Number	Identifying Information	

9.0 Correlation Page For Multiple Listings

MULTIPLE LISTEE 2	None		
Address			
Country			EPA ID
Contact			
Phone			
FAX			
Email			
Brand Name			
Date Available		Market Availability	OEM
Major Markets			
Trans Type			
Notes			
UPC			
Reason no UPC			
Other reason no UPC			
ASSOCIATED MANUFACTURER			
Address			
Country			
MULTIPLE LISTEE 2 MODELS		BASIC LISTEE MODELS	
Additional Model Details (Optional)	Model Name and Number	Identifying Information	

10.0 General Information

The Applicant has agreed to produce products in accordance with the requirements of this report and to maintain compliance with all ENERGY STAR Product Specification requirements.

Changes to Product Design / Alternate Components

As part of this agreement, the Applicant also has agreed to notify Intertek and to request authorization prior to making any changes to the product (including but not limited to using alternate parts, components or materials) which may effect compliance with the ENERGY STAR Product Specification. Those parts, components or materials identified as critical have been listed in Section 4.0 of this report.

Product Surveillance

Under this Program, market surveillance is conducted on an annual basis. For each Product Type defined in the EPA ENERGY STAR Program, Intertek will select 10% of those certified products for Verification Testing in accordance with the requirements of the EPA ENERGY STAR Product Specification.

The primary source for products under Verification Testing will be the retail market. Applicants whose products are selected for Verification Testing are required to provide a list of locations where the product might be obtained. The Applicant is responsible for the cost of procurement and the Verification Tests. Should products not be readily available on the retail market, the Applicant is required to provide access to distribution warehouses to allow selection of those products. Should the product not be available on the retail market or if procurement from the retail market is not feasible, then alternate arrangements for Verification Testing will be made by the Intertek Certification Body.

As a general rule under the Verification Testing requirements, the products must achieve energy values within 5% of the required Tier Limit.

Compliance with ENERGY STAR Product Specifications under Verification Testing

Products found non-compliant with ENERGY STAR Product Specification under Verification Testing, will be reported to the EPA within 48 hours and the product removed from the ENERGY STAR Program. If it is determined during Verification Testing that changes have been made to product design or critical components, the Certification Body may increase Verification Testing frequency of those products.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to:
Intertek Testing Services Shanghai Limited
ETL Component Evaluation Center
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms. Angela Han

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

Manufacturing and Production tests are not required under the INTERTEK ENERGY STAR Program. However, Intertek encourages the use of such ongoing product testing to ensure compliance with the EPA ENERGY STAR Product Specifications.

12.0 Revision Summary

The following changes are in compliance with the declaration of Section 8.1: