

MPE Test Report

Report No.: ULC-ESH-P21101621B-9

FCC ID: 2AG62FS29

Product: EASEL STUDIO TV FLOOR STAND

Test Model: FS29-46F-03, FS29-46F-04

Received Date: Dec.20, 2021

Test Date: Dec.20, 2021 to Jan.16, 2022

Issued Date: Jan.17, 2022

Applicant: LUMI LEGEND CORPORATION

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Manufacturer: LUMI LEGEND CORPORATION

Address: 22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China 315100

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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Release Control Record

Issue No.	Description	Date Issued
ULC-ESH-P21101621B-9	Original release	Jan.17, 2022



1 Certificate of Conformity

Product: EASEL STUDIO TV FLOOR STAND

Brand: --

Test Model: FS29-46F-03, FS29-46F-04

Applicant: LUMI LEGEND CORPORATION

Test Date: Dec.20, 2021 to Jan.16, 2022

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Approved by : Daniel SUN, **Date:** Jan.17, 2022
Daniel SUN
EMC Lab Manager

2 General Information

2.1 General Description of EUT

BLE

Product	EASEL STUDIO TV FLOOR STAND
Brand	--
Model	FS29-46F-03, FS29-46F-04
Difference	FS29-46F-03 and FS29-46F-04, electronic parts are exactly the same, the difference between just to support leg material, model: FS29-46F-03 used to wooden leg, model: FS29-46F-04 used to metal leg.
Power Rating	100-240V~, 50/60Hz, 1.5A
Modulation Type	GFSK
Modulation Technology	1Mbps for Bluetooth V5.0 (BLE)
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	40
Output Power	4.67dBm
Antenna Type	External Antenna
Antenna Connector	--
Antenna Gain	3dBi

Note:

1. For more details, please refer to the User's manual of the EUT.
2. FS29-46F-03 and FS29-46F-04, electronic parts are exactly the same, the difference between just to support leg material, model: FS29-46F-03 used to wooden leg, model: FS29-46F-04 used to metal leg. We choose model FS29-46F-03 to apply full EMC tests, the test result is applicable to all models.

BT

Product	EASEL STUDIO TV FLOOR STAND
Brand	--
Model	FS29-46F-03, FS29-46F-04
Difference	FS29-46F-03 and FS29-46F-04, electronic parts are exactly the same, the difference between just to support leg material, model: FS29-46F-03 used to wooden leg, model: FS29-46F-04 used to metal leg.
Power Rating	100-240V~, 50/60Hz, 1.5A
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology	BT-BDR, BT-EDR
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	79
Output Power	4.35dBm
Antenna Type	External Antenna
Antenna Connector	--
Antenna Gain	3dBi

Note:

1. For more details, please refer to the User's manual of the EUT.
2. FS29-46F-03 and FS29-46F-04, electronic parts are exactly the same, the difference between just to support leg material, model: FS29-46F-03 used to wooden leg, model: FS29-46F-04 used to metal leg. We choose model FS29-46F-03 to apply full EMC tests, the test result is applicable to all models.

3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

3.4 Calculation Result of Maximum Permissible Exposure

BLE

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402-2480	4.67	3	20	0.00116399	1

BT

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402-2480	4.35	3	20	0.00108131	1

Conclusion:

The calculation result of MPE is less than the limit.

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