



# RF EXPOSURE REPORT

Applicant	Circus World Displays Limited
Address	4080 Montrose Road, Niagara Falls, ON L2H 1J9 Canada

Manufacturer or Supplier	Guangdong Leetac Electronics Technology Co., Ltd.
Address	No.15 Danli Road, South District, Zhongshan, Guangdong, China.
Product	Bookshelf Speakers
Brand Name	ELECTROHOME
Model	EB30
Additional Model & Model Difference	EB30B, EB30BK, EB30C, EB30M, EB30W, EB30WH, EB30WW; See section 1
Date of tests	Aug. 11, 2021 ~ Sep. 18, 2021

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01
- IEEE C95.1

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	
	Date: Nov. 10, 2021

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2108WDG0126	Original release	Nov. 10, 2021

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## 1. CERTIFICATION

<b>PRODUCT:</b>	Bookshelf Speakers
<b>BRAND NAME:</b>	ELECTROHOME
<b>MODEL NO.:</b>	EB30
<b>ADDITIONAL MODEL:</b>	EB30B, EB30BK, EB30C, EB30M, EB30W, EB30WH, EB30WW
<b>FCC ID:</b>	SMH-EB30
<b>TEST SAMPLE:</b>	ENGINEERING SAMPLE
<b>APPLICANT:</b>	Circus World Displays Limited.
<b>TESTED DATES:</b>	Aug. 11, 2021 ~ Sep. 18, 2021
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

Note: Additional models (see above table) are identical with the test model EB30 in electrical, mechanical and physical construction except the different model No. and brand name for trading purpose.



## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

## 4. CLASSIFICATION

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

## 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Frequency Band	Antenna Gain (dBi)	Antenna Type
2402-2480MHz	0.68	PCB Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT (GFSK)	2402-2480MHz	-2	+2	-4	0
BT (8DPSK)	2402-2480MHz	-2	+2	-4	0

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT (GFSK)	2402	-0.52
BT (8DPSK)	2402	-0.56

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2402-2480	0	0.68	20	0.00023	1.0

--- END ---