



Test Report No.: FM2104WDG0365-2





# RF EXPOSURE REPORT

Applicant	DEI Sales Inc., dba Polk Audio
Address	5541 Fermi Court Carlsbad CA 92008 United States Of America

Manufacturer or Supplier	DEI Sales Inc., dba Polk Audio
Address	5541 Fermi Court Carlsbad CA 92008 United States Of America
Product	Magnifi Mini AX Ultra-Compact Sound Bar System
Brand Name	polk
Model	MAGNIFI MINI AX SUBWOOFER
Additional Model & Model Difference	N/A
Date of tests	Apr. 30, 2021 ~ Oct. 11, 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 Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	  Date: Dec. 09, 2021

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**BUREAU  
VERITAS**

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2104WDG0365-2	Original release	Dec. 09, 2021

**Bureau Veritas Shenzhen Co., Ltd.  
Dongguan Branch**

No. 96, Guantai Road (Houjie Section), Houjie  
Town, Dongguan City, Guangdong Province.  
523942. People's Republic of China.

Tel: +86 769 8998 2098  
Fax: +86 769 8593 1080  
Email: [customerservice.dg@bureauveritas.com](mailto:customerservice.dg@bureauveritas.com)



## 1. CERTIFICATION

<b>PRODUCT:</b>	Magnifi Mini AX Ultra-Compact Sound Bar System
<b>BRAND NAME:</b>	polk
<b>MODEL NO.:</b>	MAGNIFI MINI AX SUBWOOFER
<b>ADDITIONAL MODEL:</b>	N/A
<b>FCC ID:</b>	WLQMINIAXSW
<b>TEST SAMPLE:</b>	ENGINEERING SAMPLE
<b>APPLICANT:</b>	DEI Sales Inc., dba Polk Audio
<b>TESTED DATES:</b>	Apr. 30, 2021 ~ Oct. 11, 2021
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



## 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
Wireless 5.1GHz+5.8GHz	2	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)
Wireless 5.1GHz+5.8GHz	5160~5240MHz 5735~5840MHz	11	+1	10	12

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
Wireless 5.1GHz+5.8GHz	5160	10.72

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> )
Wireless 5.1GHz+5.8GHz	12	2	20	0.004997	1.0

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