

RF EXPOSURE REPORT

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

Manufacturer or Supplier	Sound United, LLC
Address	5541 Fermi Court Carlsbad, CA 92008, USA
Product	MAGNIFI MAX AX SR SOUND BAR SYSTEM
Additional Product	MAGNIFI MAX AX SOUND BAR SYSTEM
Brand Name	POLK
Model	MAGNIFI MAX AX SUBWOOFER
Additional Model & Model Difference	N/A
Date of tests	Apr. 19, 2022 ~ Jun. 22, 2022

- ☒ 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: Jun. 30, 2022

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Test Report No.: FM2203WDG0011-2

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2203WDG0011-2	Original release	Jun. 30, 2022

1. CERTIFICATION

PRODUCT:	MAGNIFI MAX AX SR SOUND BAR SYSTEM
ADDITIONAL PRODUCT:	MAGNIFI MAX AX SOUND BAR SYSTEM
BRAND NAME:	POLK
MODEL NO.:	MAGNIFI MAX AX SUBWOOFER
ADDITIONAL MODEL:	N/A
FCC ID:	WLQMAXXSW
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	DEI Sales Inc., dba Polk Audio
STANDARDS:	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 ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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	2.5	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	10	+2	8	12

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
Wireless 5.1GHz+5.8GHz	5240	10.91

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
Wireless 5.1GHz+5.8GHz	12	2.5	20	0.005607	1.0

CONCLUSION: Pass

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