



BUREAU
VERITAS

Test Report No.: FM2009WDG0048



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	WIRELESS SURROUNDS
Brand Name	Polk
Model	SR2 WIRELESS SURROUNDS
Additional Model & Model Difference	N/A
Date of tests	Sep. 03, 2020 ~ Nov. 27, 2020

- 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. 07, 2020

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2009WDG0048	Original release	Dec. 07, 2020

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1. CERTIFICATION

PRODUCT: WIRELESS SURROUNDS
BRAND NAME: Polk
MODEL NO.: SR2 WIRELESS SURROUNDS
ADDITIONAL MODEL: N/A
FCC ID: WLQSR2
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: DEI Sales Inc., dba Polk Audio
TESTED DATES: Sep. 03, 2020 ~ Nov. 27, 2020
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

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

where

Pd = power density in mW/cm²

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
5.1GHz+5.8GHz Wireless	2	FPCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Frequency Band	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
5160~5240MHz	11	+2	9	13
5735~5840MHz	8	+2	6	10

The measured conducted Average Power

Frequency Band	Frequency (MHz)	Averaged Power (dBm)
5160~5240MHz	5240	11.90
5735~5840MHz	5735	9.72

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
5.1GHz+5.8GHz Wireless	13	2	20	0.006291	1.0

--- END ---