

Test Report No.: 25072404-SE-US-01

## RF Exposure Report

FCC ID: 2AGJ43KRE

Applicant: Specialty Technologies, LLC

Address: 340 Victoria Rd Youngstown Ohio 44515, USA

Manufacturer: Specialty Technologies, LLC

Address: 340 Victoria Rd Youngstown Ohio 44515, USA

Product: Powered Subwoofer

Brand(s): SVS

Test Model(s): PB-3000 R|Evolution, SB-3000 R|Evolution, 3000 Micro R|Evolution

Series Model(s): N/A

Test Date: Aug. 08, 2025~ Sep. 17, 2025

Issued Date: Sep. 22, 2025

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Address: No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park,  
HuangJiang Town, Dongguan City, People's Republic of China

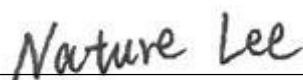
Test Firm Registration No.: 915896

Designation No.: CN1255

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

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, 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.

Prepared by :



Nature Lee

Reviewed by :



Approved by :



Scott He

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Lab: [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#)Address: [No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park, HuangJiang Town, Dongguan City, People's Republic of China](#)Tel: [0769-85598986](#)Web.: [www.lyns-tci.com](#)E-Mail: [service-hs@lyns-tci.com](#)Release  
Ver. 1.5

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**Release control record**

| Issue No.         | Reason for change | Date issued   |
|-------------------|-------------------|---------------|
| 25072404-SE-US-01 | Original Release  | Sep. 22, 2025 |

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**1 General Information****1.1 General Description of EUT**

|                               |                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Product                       | Powered Subwoofer                                                                                                        |
| Sample No.                    | HS2507240404, HS2507240405, HS2507240406<br>HS2507240407, HS2507240408                                                   |
| Test Model(s)                 | PB-3000 R Evolution, SB-3000 R Evolution, 3000 Micro R Evolution                                                         |
| Series Model(s)               | N/A                                                                                                                      |
| Status of EUT                 | Engineering Prototype                                                                                                    |
| Power Supply Rating           | 100V-240V ~ 50-60Hz 1000W                                                                                                |
| Modulation Type               | GFSK for DTS                                                                                                             |
| Transfer Rate                 | 1 Mbps, 2Mbps                                                                                                            |
| Operating Frequency           | 2402 ~ 2480MHz                                                                                                           |
| Number of Channel             | 40                                                                                                                       |
| Maximum Output Power          | 4.36dBm (Peak)                                                                                                           |
| Antenna Type and Antenna Gain | 3000 Micro R Evolution: PCB Antenna; 2.24dBi Gain<br>PB-3000 R Evolution, SB-3000 R Evolution: FPC Antenna; 4.53dBi Gain |
| Antenna Connector             | N/A                                                                                                                      |
| Accessory Device              | N/A                                                                                                                      |
| Data Cable Supplied           | AC Cable: 180cm Non-shielded, Detachable                                                                                 |

**Note:**

1. Please refer to the EUT photo document (Reference No.: 25072404-01&02) for detailed product photo.
2. Hwa-Hsing (Dongguan) Testing Co., Ltd. is not responsible for the accuracy of the information provided by the manufacturer.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.
4. Model differences: All models are identical with each other except for model name, software, appearance, antenna type, size of loud speaker and size of the main unit.

**2 RF exposure limit**

Limits for maximum permissible exposure (MPE)

| Limits for general population / uncontrolled exposure |                                  |                                  |                                        |                           |
|-------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------------|---------------------------|
| Frequency range<br>(MHz)                              | Electric field strength<br>(V/m) | Magnetic field strength<br>(A/m) | Power density<br>(mW/cm <sup>2</sup> ) | Average time<br>(minutes) |
| 300-1500                                              | ...                              | ...                              | F/1500                                 | 30                        |
| 1500-100,000                                          | ...                              | ...                              | 1.0                                    | 30                        |
| Note: F = Frequency in MHz                            |                                  |                                  |                                        |                           |

**2.1 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

**Classification:**

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

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**3 Calculation result of maximum conducted power**

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

| Function | Frequency (MHz) | Antenna Gain (dBi) | Antenna Type | Transmit and Receive Chain | Maximum Power |
|----------|-----------------|--------------------|--------------|----------------------------|---------------|
| BLE      | 2402-2480       | 2.24               | PCB          | 1TX,1RX                    | 4.36dBm       |

| Frequency (MHz) | Max power (mW) | Antenna gain (dBi) | Distance (cm) | Power density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|-----------------|----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| 2402-2480       | 2.7290         | 2.24               | 20            | 0.000909                            | 1.0                         |

**Conclusion:**

Therefore, the worst-case situation is 0.000909 mW/cm<sup>2</sup>, which is less than "1". This confirmed that the device compliance with FCC 1.1310 MPE limit.

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#### **Appendix – Information on the Testing Laboratories**

We, [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#), A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values "HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT", commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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