RF Exposure Report

FCC ID:	2AGJ43KMIC
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):	3000 Micro
Series Model(s):	N/A
Test Date:	Dec. 25, 2024~ Feb. 07, 2025
Issued Date:	Feb. 17, 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 : Wendy Lee

Wendy Lee

Reviewed by : Sye Yang

Sye Yang

Approved by : Scott He

Scott He

HWA-HSING (DONGGUAN) TESTING CO., LTD. LYNS-TCi

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Release control record

Issue No.	Reason for change	Date issued
24011006R1-2-SE-US-01	Original Release	Feb. 17, 2025

1 General Information

1.1 General Description of EUT

Product	Powered Subwoofer
Test Model(s)	3000 Micro
Sample No.	24011006R1-202, 24011006R1-203
Series Model(s)	N/A
Status of EUT	Engineering Prototype
Power Supply Rating	AC 100-120V~,50-60Hz,800W
Modulation Type	GFSK for DTS
Transfer Rate	1 Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Maximum Output Power	4.059dBm (Peak)
Antenna Type	Internal Antenna;
Antenna Gain	4.16dBi Gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	AC Cable: 200cm, Non-shielded, Detachable

Note:

1. Please refer to the EUT photo document (Reference No.: 24011006R1-2-01&02) for detailed product photo.
2. 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.

2 RF exposure limit

Limits for maximum permissible exposure (MPE)

Limits for general population / uncontrolled exposure				
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Average time (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^2

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.

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 Peak Power
BLE	2402-2480	4.16dBi	Internal	1TX,1RX	4.059dBm

Conclusion:

Therefore, the worst-case situation is 0.001320 mW/cm^2, which is less than “1”. This confirmed that the device compliance with FCC 1.1310 MPE limit.

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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