

Test Report No.: FS170622N026

RF EXPOSURE REPORT

Applicant	Specialty Technologies LLC
Address	260 Victoria Road Youngstown, OH 44515, USA

Manufacturer or Supplier	Specialty Technologies LLC
Address	260 Victoria Road Youngstown, OH 44515, USA
Product	Powered Subwoofer
Brand Name	svs
Model	SB-4000
Additional Model & Model Difference	PB-4000, PC-4000, See item 1
Date of tests	Jun. 03, 2016 ~ Jun. 23, 2016

- FCC Part 2 (Section 2.1091)
- **KDB 447498 D01**
- **⊠** IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Date: Aug. 14, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160523N055	Original release	Jun. 23, 2016
FS170622N026	Based on the original report FS160523N055 changed product name, model no. and it no need to retest after engineer evaluated.	Aug. 14, 2017

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Report Version 1



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1. CERTIFICATION

FCC ID:	2AGJ44K	
PRODUCT:	Powered Subwoofer	
BRAND NAME:	SVS	
MODEL NO.:	SB-4000	
ADDITIONAL NO.:	PB-4000, PC-4000	
TEST SAMPLE:	Engineering Sample	
APPLICANT: Specialty Technologies LLC		
STANDARDS:	KDB 447498 D01	
IEEE C95.1		
	FCC Part 2 (Section 2.1091)	

NOTE:

- This report issued based on the report with the report number FS170523N055 changed models SB16-ULTRA, PB16-ULTRA to SB-4000, PB-4000, PC-4000, and the models SB-4000, PB-4000, PC-4000 are identical with the models SB16-ULTRA, PB16-ULTRA except the model no. and the size for trading purpose.
- 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.
- 3. Please refer to the EUT photo document (Reference No.: 170622N026) for detailed product photo.
- 4. Additional models PB-4000, PC-4000 are identical with the test model SB-4000 except the appearance and model no. for trading purpose.

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2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)			POWER DENSITY (mW/cm²)	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/m²

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**.

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5. ANTENNA GAIN

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

Transmitter	Peak Gain (dBi)	Total Gain	Antenna
Circuit		(dBi)	Type
Chain 0	2.5	2.5	Chip Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
2402-2480MHz	0	+-2	-2	2

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE (GFSK)	2480	0.67

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402-2480	2	2.5	20	0.00056	1.0

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