



BUREAU
VERITAS

Test Report No.: FS160523N055

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	SB16-ULTRA
Additional Model & Model Difference	PB16-ULTRA
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

Tested by Breeze Jiang
Supervisor / EMC Department

Approved by Chris Chen
Manager / EMC Department

Date: Jun. 23, 2016

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160523N055	Original release	Jun. 23, 2016

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1. CERTIFICATION

FCC ID:	2AGJ4SB16
PRODUCT:	Powered Subwoofer
BRAND NAME:	SVS
MODEL NO.:	SB16-ULTRA
ADDITIONAL NO.:	PB16-ULTRA
TEST SAMPLE:	Engineering Sample
APPLICANT:	Specialty Technologies, LLC
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

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

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:

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

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	2.371	2.5	20	0.0008389	1.0

--- END ---