TEST REPORT					
FCC ID :	2AQ5C-51SBR				
Test Report No:	TCT240902E029				
Date of issue:	Sep. 09, 2024				
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB			
Testing location/ address:	2101 & 2201, Zhenchang Factor Subdistrict, Bao'an District, Sher People's Republic of China	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China			
Applicant's name: :	Hypercel Corporation				
Address:	28385 Constellation Rd., Valencia, California 91355, United States				
Manufacturer's name :	Shenzhen Hypercel Technology	Shenzhen Hypercel Technology Co., Ltd			
Address:	Room 605, No.4 Building, Tongtai Times Center, No.6259 Bao'an Avenue, Bao'an District, Shenzhen City 518103, China				
Standard(s):	FCC CFR Title 47 Part 1.1307				
Product Name::	5.1 Home Theater Surround Sou	und System			
Trade Mark:	N/A				
Model/Type reference :	15951(SB51a)				
Rating(s):	AC 120V/60Hz				
Date of receipt of test item	Sep. 02, 2024				
Date (s) of performance of test:	Sep. 02, 2024 ~ Sep. 09, 2024				
Tested by (+signature) :	Ronaldo LUO	Runald Courses			
Check by (+signature) :	Beryl ZHAO	Boyl 2 TCT			
Approved by (+signature):	): Tomsin				
General disclaimer:					

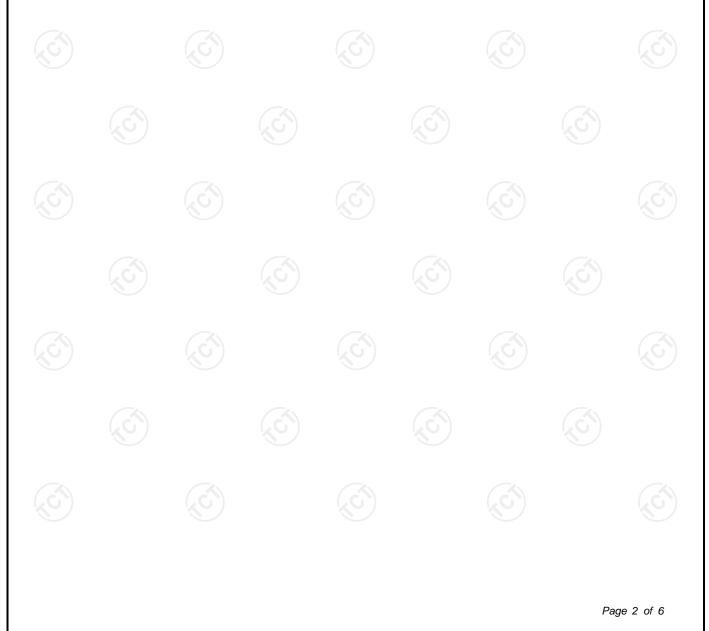
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# **1. General Product Information**

### 1.1. EUT description

Product Name:	5.1 Home Theater Surround Sound System	
Model/Type reference:	15951(SB51a)	
Sample Number:	TCT240902E028-0101	
Operation Frequency:	2402MHz~2480MHz	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	
Antenna Type:	PCB Antenna	$\langle \mathcal{O} \rangle$
Antenna Gain:	0.68dBi	
Rating(s):	AC 120V/60Hz	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.



# 2. General Information

#### 2.1. Test environment and mode

ltem	Normal condition			
Temperature		+25°C		
Voltage		AC 120V		
Humidity		56%		
Atmospheric Pressure:		1010 mbar		(C
Test Mode:				
Transmitting Mode:	Keep the EU	T in continuous transmi	tting by select chanr	nel

#### 2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1			1	1
Mater				

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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# 3. Facilities and Accreditations

#### 3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A
- SHENZHEN TONGCE TESTING LAB
- CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

### 3.2. Location

#### SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339





### 4. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) The maximum output power for antenna is 3.59dBm (2.29mW) at 2402MHz, -0.68dBi antenna gain(with 0.86 numeric antenna gain.)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation  $\sqrt{30 \times P \times G}$ Given E =& S = 3770 d Where E = Field Strength in Volts / meter P = Power in WattsG=Numeric antenna gain d=Distance in meters S=Power Density in milliwatts / square centimeter



Substituting the MPE safe distance using d=20cm into above equation. Yields: S=0.000199\*P\*G

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
BT	3.59	2.29	0.86	0.000392	1.00	PASS
$(\mathcal{G})$	<b>D</b> <sub>4</sub> )		$(\mathcal{G})$	D 2		$(\mathcal{O})$

\*\*\*\*\*END OF REPORT\*\*\*\*\*