



# FCC Test Report

**Test Report  
On Behalf of  
Journey Brands LLC  
For  
RC Cartoon Cars  
Model No.: JB-008**

**FCC ID: 2BDWF-JB-008**

**Prepared For: Journey Brands LLC  
1303 53rd Street STE 100 Brooklyn NY 11219, United States**

**Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.  
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai  
Street, Bao'an District, Shenzhen, Guangdong, China**

**Date of Test: Oct. 20, 2023 ~ Nov. 14, 2023**

**Date of Report: Nov. 14, 2023**

**Report Number: HK2310204893-E**

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## Test Result Certification

**Applicant's Name**.....: Journey Brands LLC

Address .....: 1303 53rd Street STE 100 Brooklyn NY 11219, United States

**Manufacturer's Name** .....: Journey Brands LLC

Address .....: 1303 53rd Street STE 100 Brooklyn NY 11219, United States

### Product Description

Trade Mark .....: N/A

Product Name .....: RC Cartoon Cars

Model and/or Type Reference: JB-008

**Standards** .....: 47 CFR Part15, Subpart C 15.227

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**Date of Test**.....:

Date (s) of Performance of Tests .....: **Oct. 20, 2023 ~ Nov. 14, 2023**

Date of Issue .....: **Nov. 14, 2023**

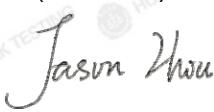
Test Result.....: **Pass**

Testing Engineer : 

(Gary Qian)

Technical Manager : 

(Eden Hu)

Authorized Signatory : 

(Jason Zhou)



## Table of Contents

<b>1. Test Result Summary .....</b>	<b>5</b>
1.1. Test Facility.....	5
1.2. Information of the Test Laboratory .....	5
1.3. Measurement Uncertainty .....	5
<b>2. EUT Description .....</b>	<b>6</b>
2.1. General Description of EUT .....	6
2.2. Description of Test Setup.....	7
<b>3. General Information.....</b>	<b>8</b>
3.1. Test Environment and Mode .....	8
3.2. Description of Support Units .....	9
<b>4. Test Results and Measurement Data .....</b>	<b>10</b>
4.1. Antenna Requirement.....	10
4.2. Conducted Emission.....	11
4.3. Radiated Emission Measurement.....	14
4.4. Occupied Bandwidth.....	21
<b>5. Photographs of Test.....</b>	<b>23</b>
<b>6. Photos of the EUT.....</b>	<b>25</b>

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**\*\* Modified History \*\***

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Nov. 14, 2023	Jason Zhou

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## 1. Test Result Summary

### 1.1. Test Facility

Requirement	CFR 47 Section	Result
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS
Radiation Emission	§15.227, §15.205, §15.209	PASS
Occupied Bandwidth	§15.215	PASS
Antenna requirement	§15.203	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 1.2. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

### 1.3. Measurement Uncertainty

#### Measurement Uncertainty

Conducted Emission Expanded Uncertainty	= 2.71dB, k=2
Radiated Emission Expanded Uncertainty(9kHz-30MHz)	= 3.90dB, k=2
Radiated Emission Expanded Uncertainty(30MHz-1000MHz)	= 3.90dB, k=2
Radiated Emission Expanded Uncertainty(Above 1GHz)	= 4.28dB, k=2



## 2. EUT Description

### 2.1. General Description of EUT

Equipment	RC Cartoon Cars
Model Name	JB-008
Serial Model	N/A
Model Difference	N/A
FCC ID	<b>2BDWF-JB-008</b>
Antenna Type	External Antenna
Antenna Gain	-0.58dBi
Operation Frequency	27.159MHz
Modulation Type	ASK
Power Source	DC5V from Type-C or DC 3.7V from Battery
Power Rating	DC5V from Type-C or DC 3.7V from Battery

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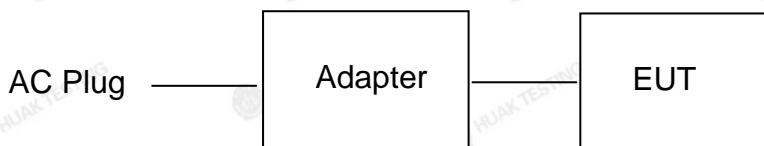
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## 2.2. Description of Test Setup

Operation of EUT during Conducted testing:



Operation of EUT during Radiation testing:





### 3. General Information

#### 3.1. Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.	



### 3.2. 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	RC Cartoon Cars	N/A	JB-008	N/A	EUT
2	Adapter	HUAWEI	HW-100225C00	Input: AC100-240V, 50/60Hz, 0.75A Output: DC5V/2A, 9V/2A, 10V/2.25A MAX	Peripheral

**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.



## 4. Test Results and Measurement Data

### 4.1. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	External Antenna
The antenna used in this product is an External Antenna which use a special interface and cannot easily replace, The directional gains of antenna used for transmitting is -0.58dBi.	
	27 159MHz ANT.

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## 4.2. Conducted Emission

### 4.2.1. Conducted Power Line Emission Limit

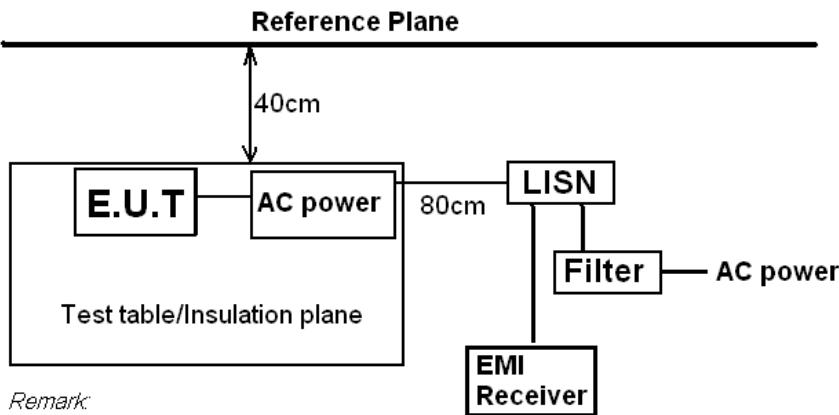
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dB $\mu$ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

\* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

### 4.2.2. Test Setup



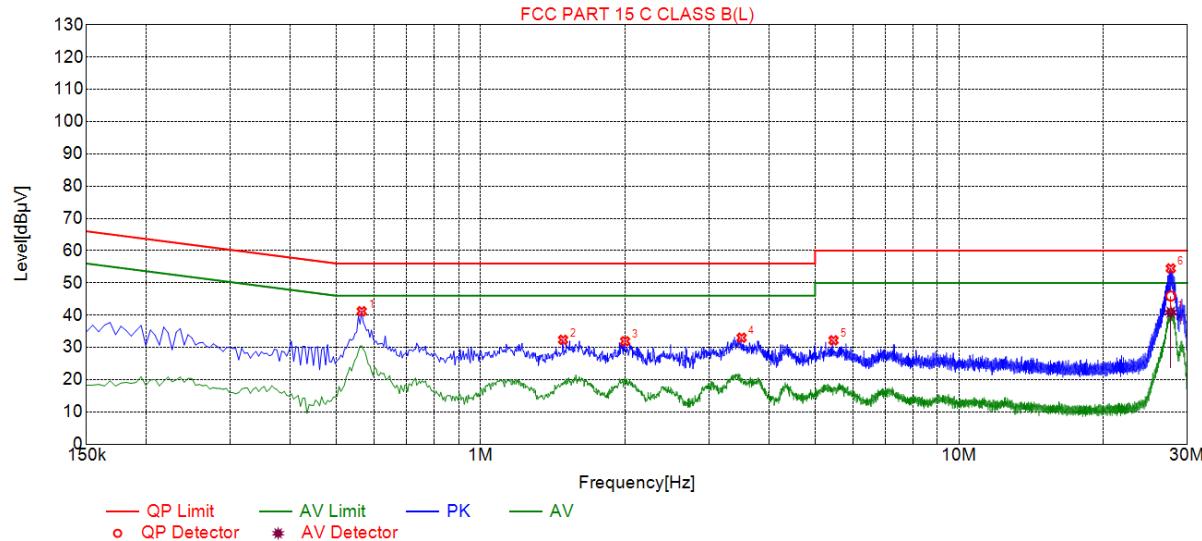
### 4.2.3. Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.



#### 4.2.4. Test Result

Test Specification: Line



#### Suspected List

NO.	Freq. [MHz]	Level [dB $\mu$ V]	Factor [dB]	Limit [dB $\mu$ V]	Margin [dB]	Reading [dB $\mu$ V]	Detector	Type
1	0.5640	41.21	20.06	56.00	14.79	21.15	PK	L
2	1.4865	32.36	20.10	56.00	23.64	12.26	PK	L
3	2.0040	31.90	20.14	56.00	24.10	11.76	PK	L
4	3.5115	33.00	20.25	56.00	23.00	12.75	PK	L
5	5.4645	32.20	20.26	60.00	27.80	11.94	PK	L
6	27.7080	54.49	20.26	60.00	5.51	34.23	PK	L

#### Final Data List

NO.	Freq. [MHz]	Correction factor [dB]	QP Value [dB $\mu$ V]	QP Limit [dB $\mu$ V]	QP Margin [dB]	QP Reading [dB $\mu$ V]	AV Value [dB $\mu$ V]	AV Limit [dB $\mu$ V]	AV Margin [dB]	AV Reading [dB $\mu$ V]	Type
1	27.7080	20.26	45.92	60.00	14.08	25.66	40.86	50.00	9.14	20.6	L

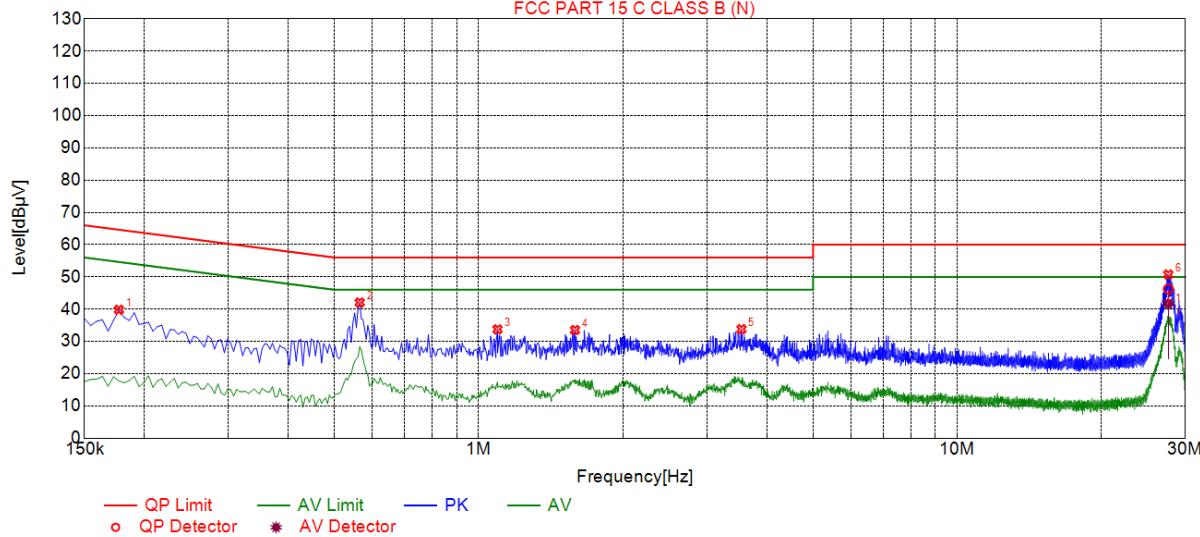
Remark: Margin = Limit – Level

Correction factor = Cable loss + LISN insertion loss

Level = Test receiver reading + correction factor



## Test Specification: Neutral

**Suspected List**

NO.	Freq. [MHz]	Level [dB $\mu$ V]	Factor [dB]	Limit [dB $\mu$ V]	Margin [dB]	Reading [dB $\mu$ V]	Detector	Type
1	0.1770	39.82	20.05	64.63	24.81	19.77	PK	N
2	0.5640	42.05	20.06	56.00	13.95	21.99	PK	N
3	1.0950	33.73	20.07	56.00	22.27	13.66	PK	N
4	1.5900	33.53	20.11	56.00	22.47	13.42	PK	N
5	3.5430	33.79	20.25	56.00	22.21	13.54	PK	N
6	27.6405	50.74	20.26	60.00	9.26	30.48	PK	N

**Final Data List**

NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dB $\mu$ V]	QP Limit [dB $\mu$ V]	QP Margin [dB]	QP Reading [dB $\mu$ V]	AV Value [dB $\mu$ V]	AV Limit [dB $\mu$ V]	AV Margin [dB]	AV Reading [dB $\mu$ V]	Type
1	27.6405	20.26	46.24	60.00	13.76	25.98	41.70	50.00	8.30	21.44	N

Remark: Margin = Limit – Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



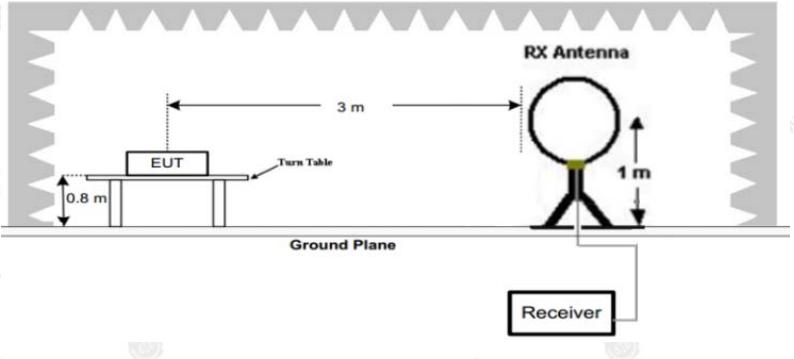
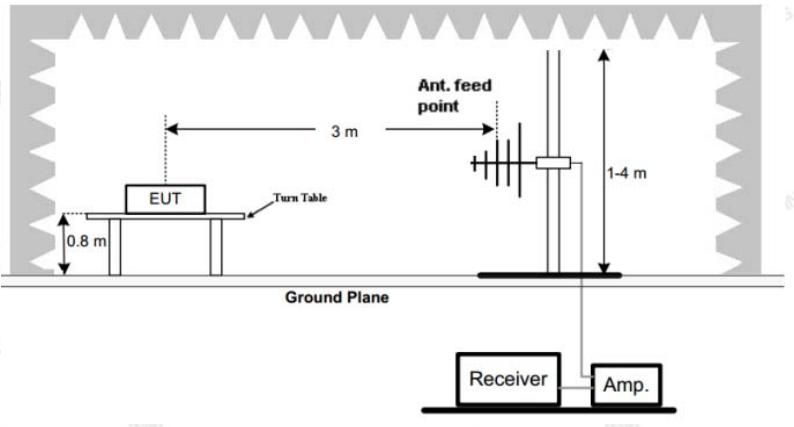
## 4.3. Radiated Emission Measurement

### 4.3.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.227 and 15.209				
<b>Test Method:</b>	ANSI C63.10:2013				
<b>Frequency Range:</b>	9 kHz to 1 GHz				
<b>Measurement Distance:</b>	3 m				
<b>Antenna Polarization:</b>	Horizontal & Vertical				
<b>Receiver Setup:</b>	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
	<ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li></ol>				

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For Radiated Emissions	
	
<b>Test Setup:</b>	30MHz to 1GHz
	
	Above 1GHz
<b>Test Mode:</b>	Transmitting Mode
<b>Test Results:</b>	PASS

#### 4.3.2. Limit

(a) The field strength of any emission within this band shall not exceed 10,000 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

(b) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in §15.209.



#### 4.3.3. Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)	Field strength (microvolts/meter)
0.009-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.705-30	30	20log 30	30
30-88	3	40.0	100**
88-216	3	43.5	150**
216-960	3	46.0	200**
Above 960	3	54.0	500

**NOTE:**

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., S 15.231 and 15.241.

#### 4.3.4. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHWARZ	ESVD	100008	Feb. 17, 2023
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Feb. 17, 2023
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Feb. 17, 2023
Pre-amplifier	HP	8447D	2727A05017	Feb. 17, 2023
Loop antenna	ZHINAN	ZN30900A	12024	Feb. 17, 2023
Broadband Antenna	Schwarzbeck	VULB9163	340	Feb. 17, 2023
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Feb. 17, 2023
Coax cable	HUAK	N/A	N/A	Feb. 17, 2023
Coax cable	HUAK	N/A	N/A	Feb. 17, 2023
Coax cable	HUAK	N/A	N/A	Feb. 17, 2023
Coax cable	HUAK	N/A	N/A	Feb. 17, 2023
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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**4.3.5. Test Data**

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

**Field Strength of Fundamental**

Frequency (MHz)	Reading (dBuV/m)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar (H/V)	Detector
26.96	28.96	-10.82	18.14	69.5	-51.36	H	Peak
26.96	31.52	-10.82	20.70	69.5	-48.80	V	Peak
27.159	62.96	-12.65	50.31	100	-49.69	H	Peak
27.159	64.53	-12.65	51.88	100	-48.12	V	Peak
27.28	30.83	-10.82	20.01	69.5	-49.49	H	Peak
27.28	30.67	-10.82	19.85	69.5	-49.65	V	Peak

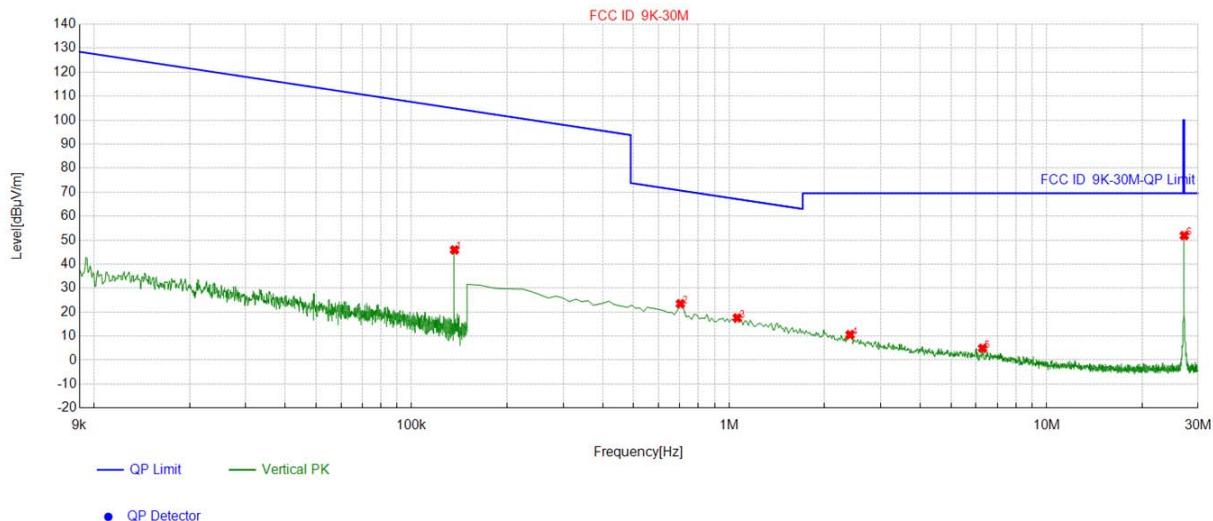
Remark: Margin = Result - Limit

Result = Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Factor



For 9KHz - 30MHz

**Suspected List**

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.136528	-10.59	56.51	45.92	104.89	58.97
2	0.702501	-10.95	34.44	23.49	70.68	47.19
3	1.06088	-10.53	28.08	17.55	67.11	49.56
4	2.404802	-10.79	21.36	10.57	69.50	58.93
5	6.287244	-10.70	15.62	4.92	69.50	64.58
6	27.159199	-12.65	64.53	51.88	100.00	48.12

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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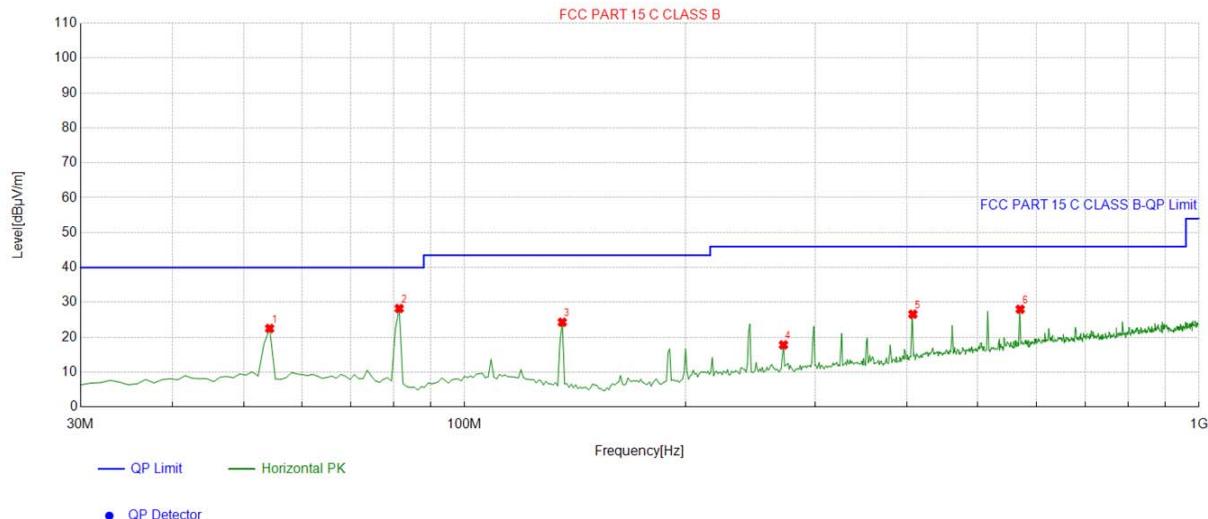
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About 30MHz-1GHz

Horizontal:

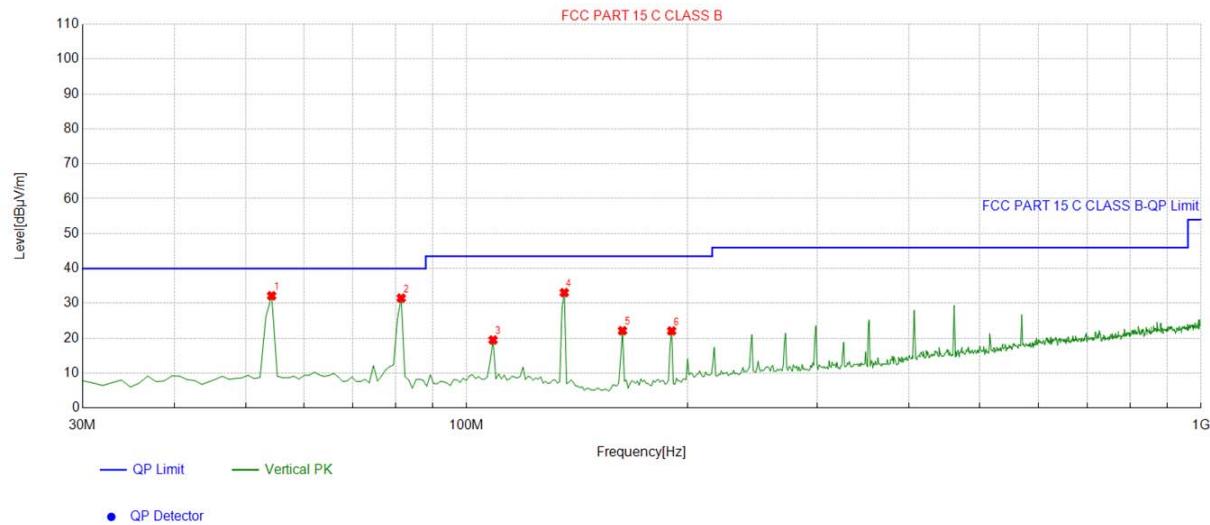
**Suspected List**

NO.	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.274274	-14.46	36.99	22.53	40.00	17.47	100	78	Horizontal
2	81.461461	-17.48	45.73	28.25	40.00	11.75	100	215	Horizontal
3	135.83583	-17.62	41.93	24.31	43.50	19.19	100	127	Horizontal
4	271.77177	-12.63	30.44	17.81	46.00	28.19	100	39	Horizontal
5	407.70770	-9.27	35.88	26.61	46.00	19.39	100	53	Horizontal
6	570.83083	-5.65	33.68	28.03	46.00	17.97	100	354	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



Vertical:

**Suspected List**

NO.	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.274274	-14.46	46.64	32.18	40.00	7.82	100	327	Vertical
2	81.461461	-17.48	48.98	31.50	40.00	8.50	100	50	Vertical
3	108.64864	-14.62	34.12	19.50	43.50	24.00	100	82	Vertical
4	135.83583	-17.62	50.69	33.07	43.50	10.43	100	47	Vertical
5	163.02302	-17.19	39.36	22.17	43.50	21.33	100	11	Vertical
6	190.21021	-17.06	39.17	22.11	43.50	21.39	100	52	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



## 4.4. Occupied Bandwidth

### 4.4.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.215
<b>Test Method:</b>	ANSI C63.10: 2013
<b>Limit:</b>	N/A
	<ol style="list-style-type: none"><li>1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li><li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li><li>3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW=1% to 5% of the Occupied Bandwidth; VBW=3RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li><li>4. Measure and record the results in the test report.</li></ol>
<b>Test Setup:</b>	
<b>Test Mode:</b>	Transmitting Mode
<b>Test Results:</b>	PASS

### 4.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Feb. 17, 2023

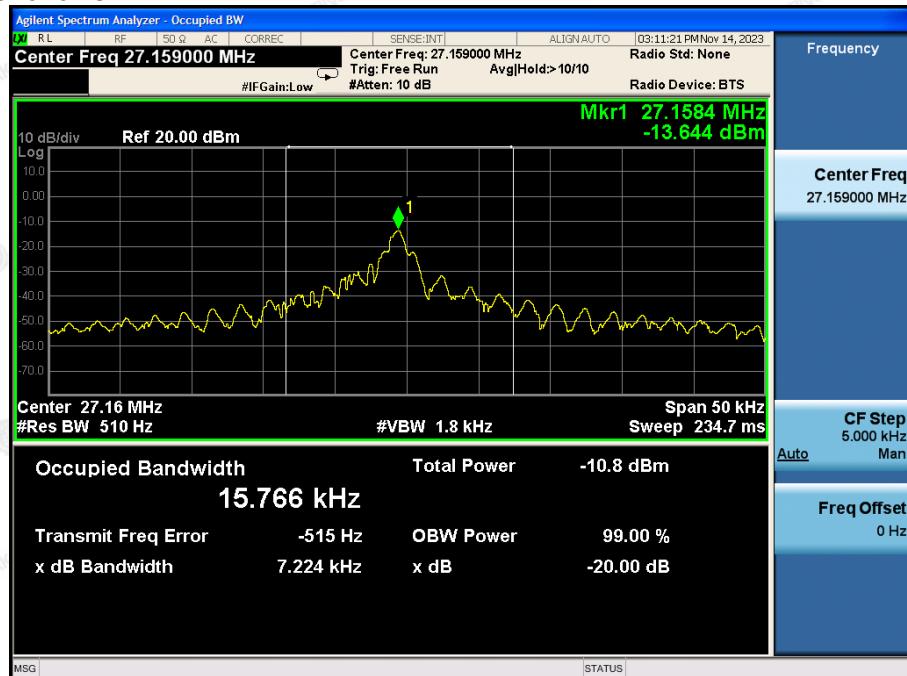
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



#### 4.4.3. Test data

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
27.159	7.224	N/A	PASS

##### Test plots as follows:



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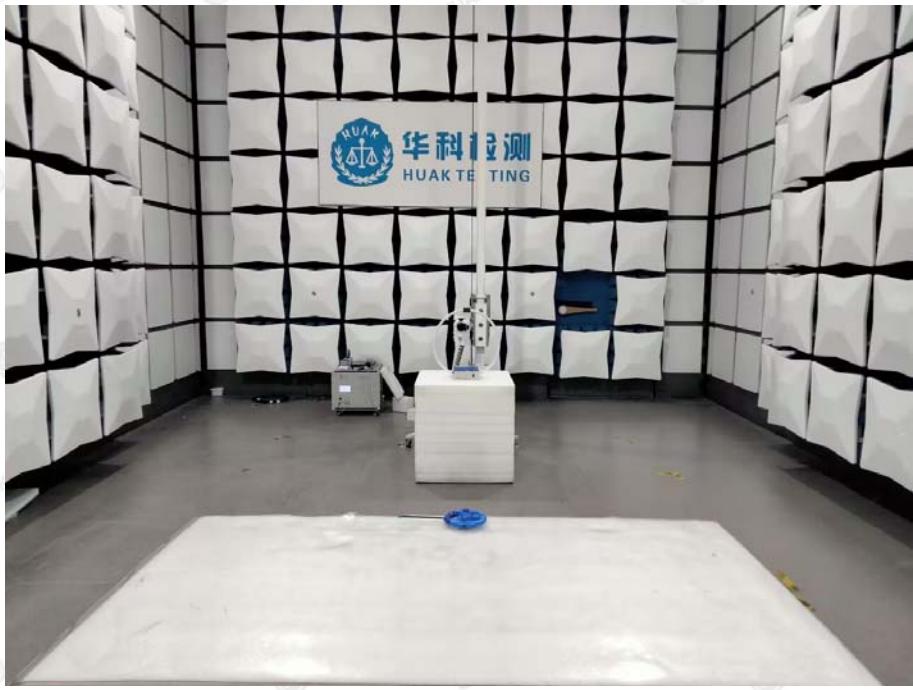
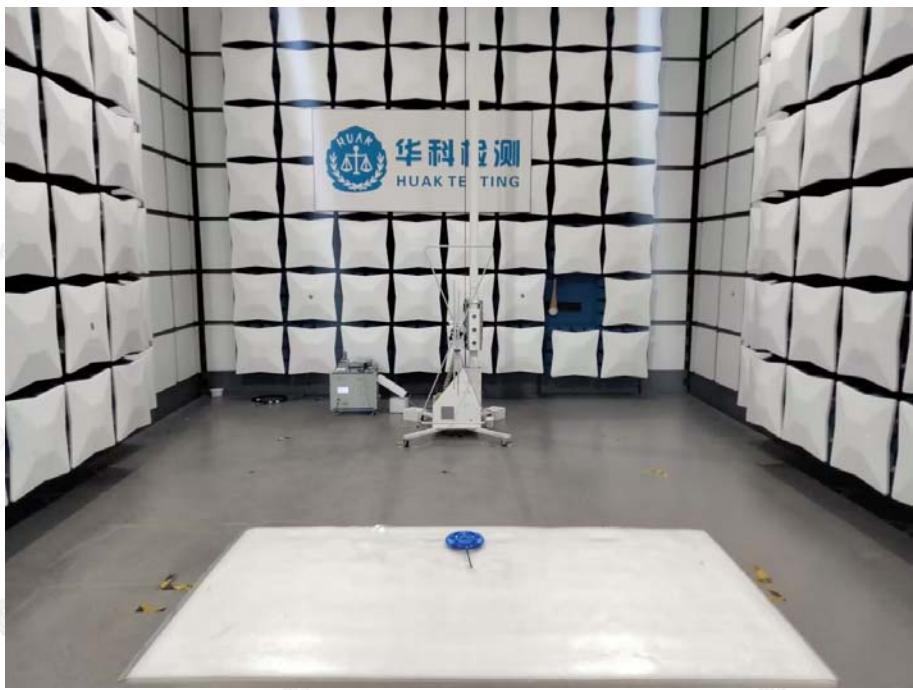
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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



## 5. Photographs of Test

### Radiated Emission



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**Conducted Emission**

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## 6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

\*\*\*\*\*End of Report\*\*\*\*\*