

FCC Test Report

**Test Report
On Behalf of
Teng Yi Toys Factory
For
Farmer engineering vehicle
Model No.: SY911, SY955, SY933**

FCC ID: 2BRRU-SY911

Prepared For: **Teng Yi Toys Factory**

No. 20, Huatang, No. 5, Village of Tangxi, Town of Dongli, Chenghai District, Shantou City, Guangdong Province, China

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: **Aug. 01, 2025 ~ Aug. 18, 2025**

Date of Report: **Aug. 18, 2025**

Report Number: **HK2508014260-E**

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Test Result Certification

Applicant's Name: Teng Yi Toys Factory

Address: No. 20, Huatang, No. 5, Village of Tangxi, Town of Dongli, Chenghai District, Shantou City, Guangdong Province, China

Manufacturer's Name: Teng Yi Toys Factory

Address: No. 20, Huatang, No. 5, Village of Tangxi, Town of Dongli, Chenghai District, Shantou City, Guangdong Province, China

Product Description

Trade Mark: N/A

Product Name: Farmer engineering vehicle

Model and/or Type Reference: SY911, SY955, SY933

Standards: 47 CFR Part15, Subpart C 15.227

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Date of Test:

Date (s) of Performance of Tests: Aug. 01, 2025 ~ Aug. 18, 2025

Date of Issue: Aug. 18, 2025

Test Result: Pass

Testing Engineer



Len Liao

Technical Manager



Sliver Wan

Authorized Signatory



Jason Zhou



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Table of Contents

1. Test Result Summary	5
1.1. Test Facility.....	5
1.2. Information of the Test Laboratory	5
1.3. Measurement Uncertainty	5
2. EUT Description	6
2.1. General Description of EUT	6
2.2. Description of Test Setup.....	7
2.3. Description of Support Units	8
3. General Information.....	9
3.1. Test Environment and Mode	9
4. Test Results and Measurement Data	10
4.1. Antenna Requirement.....	10
4.2. AC Conducted Emission	11
4.3. Radiated Emission Measurement.....	13
4.4. Occupied Bandwidth.....	21
5. Test Setup Photos of the EUT	23
6. Photos of the EUT.....	25

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Aug. 18, 2025	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	N/A
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.
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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



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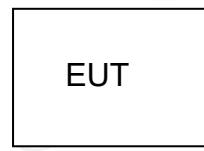
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2.2. Description of Test Setup

Operation of EUT during radiation testing:



Operation of EUT during RF conducted testing:



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2.3. 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	Remark
1	Farmer engineering vehicle	N/A	SY911 HUAKE TESTING	N/A HUAKE TESTING	EUT
		HUAKE TESTING			

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 Bandwidth, Frequency Separation, Number of Hopping Frequency, Time of Occupancy (Dwell Time), Out-of-Band 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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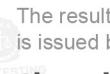
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3. General Information

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.	

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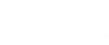
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4. Test Results and Measurement Data

4.1. Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203

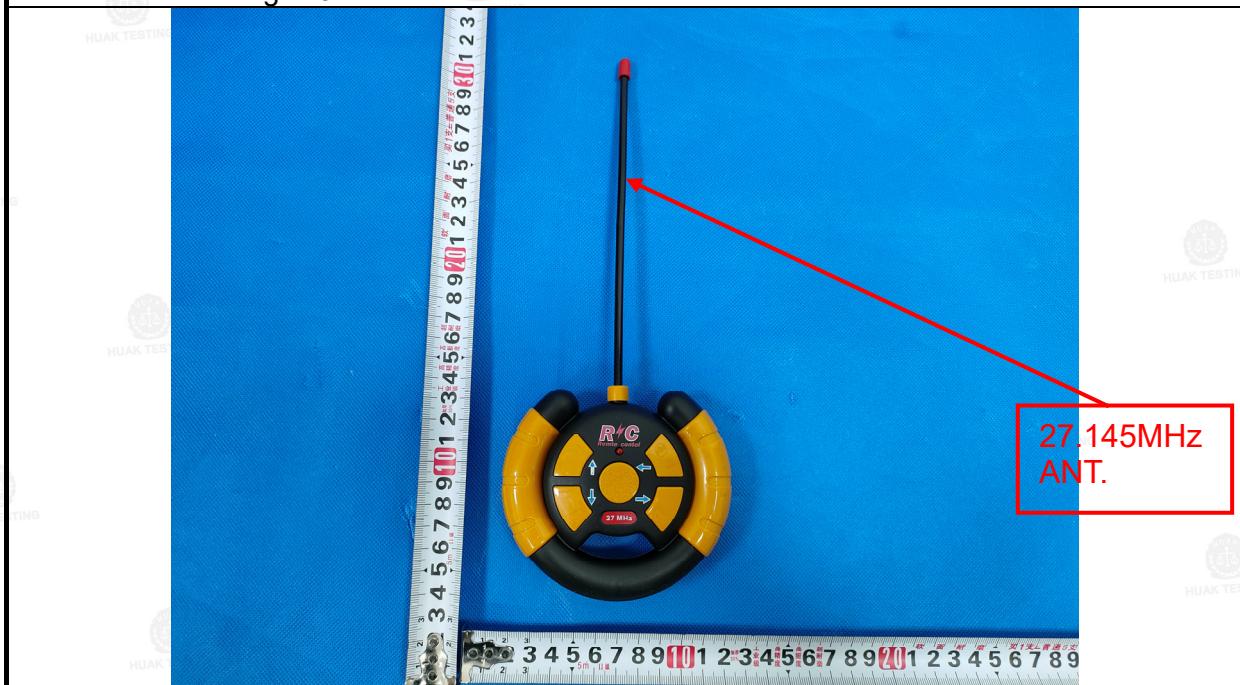
15.203 requirement:

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, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3dBi.





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4.2. AC Conducted Emission

4.2.1. Conducted Power Line Emission Limit

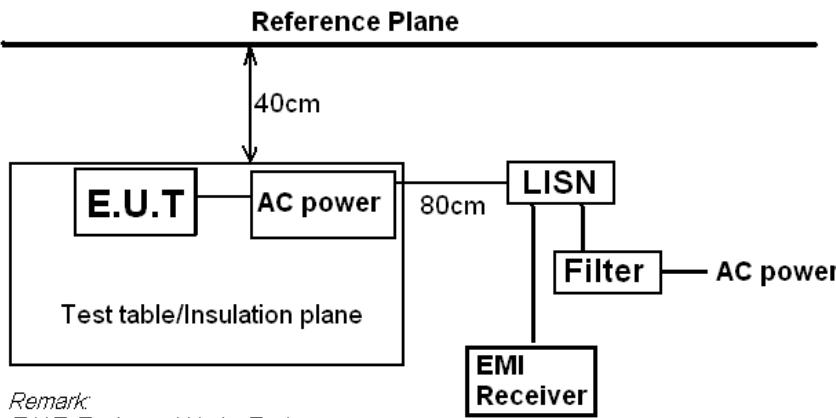
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dB μ 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



Remark:

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

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.

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4.2.4. Test Result

Not applicable.

Note: EUT power supply by DC Power, so this test item not applicable.

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4.3. Radiated Emission Measurement

4.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.227 and 15.209				
Test Method:	ANSI C63.10: 2020				
Frequency Range:	9 kHz to 1 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	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"> 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. 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. 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. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. 				

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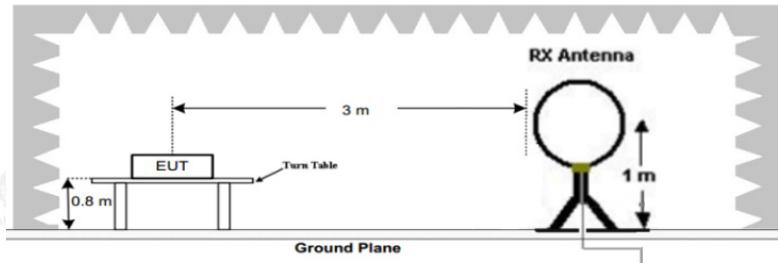
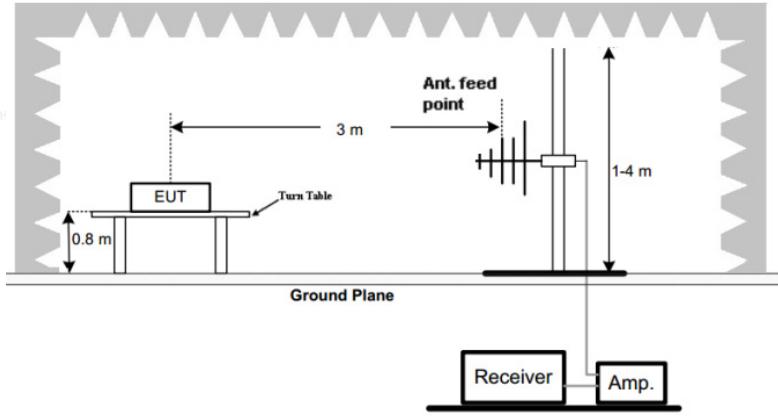
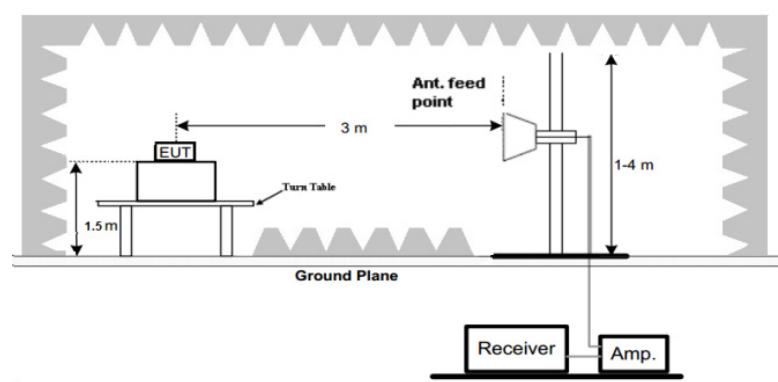


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For Radiated Emissions	
	
Test Setup:	30MHz to 1GHz 
	Above 1GHz 
Test Mode:	Transmitting Mode
Test Results:	PASS

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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 μ 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.



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4.3.4. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 19, 2025	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 19, 2025	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	1 Year
6.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	1 Year
7.	Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 19, 2025	1 Year
8.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	1 Year
9.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	1 Year
10.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	1 Year
11.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	1 Year
12.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
13.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
14.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
15.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
16.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
17.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 19, 2025	1 Year
18.	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	1 Year

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	36.21	-10.82	25.39	69.5	44.11	H	Peak
26.96	33.85	-10.82	23.03	69.5	46.47	V	Peak
27.145	55.62	-12.65	42.97	100	57.03	H	Peak
27.145	54.24	-12.65	41.59	100	58.41	V	Peak
27.28	39.41	-10.82	28.59	69.5	40.91	H	Peak
27.28	38.54	-10.82	27.72	69.5	41.78	V	Peak

Remark: Margin = Limit - Result

Result = Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Factor



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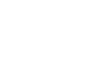
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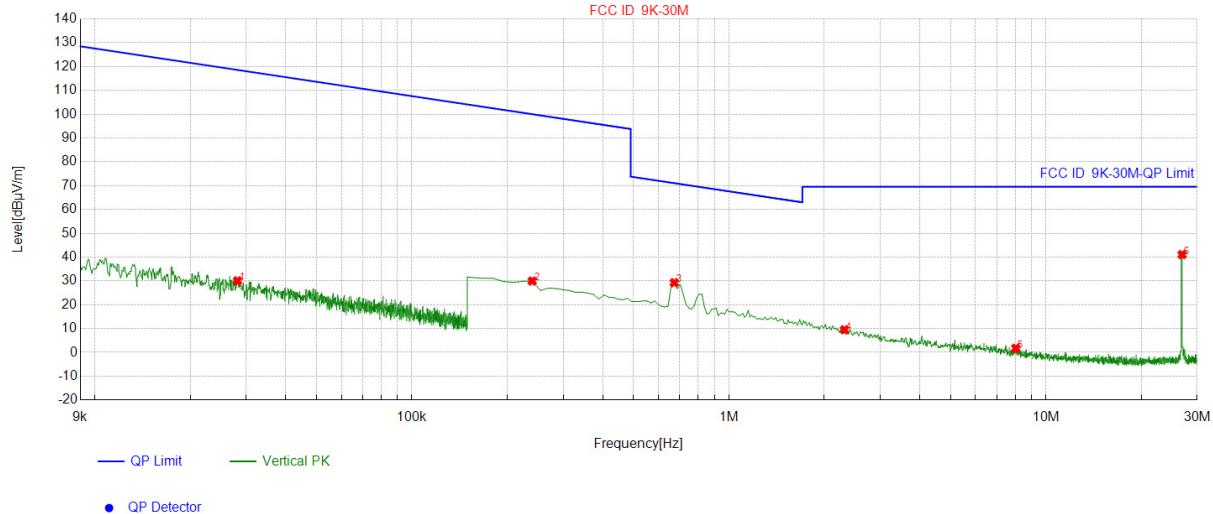
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For 9KHz - 30MHz



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.0282	-10.72	40.79	30.07	118.59	88.52
2	0.2396	-10.89	40.86	29.97	100.01	70.04
3	0.6726	-10.95	40.22	29.27	71.06	41.79
4	2.3152	-10.73	20.23	9.50	69.50	60.00
5	8.0343	-11.06	12.80	1.74	69.50	67.76
6	26.8940	-12.55	53.61	41.06	69.50	28.44

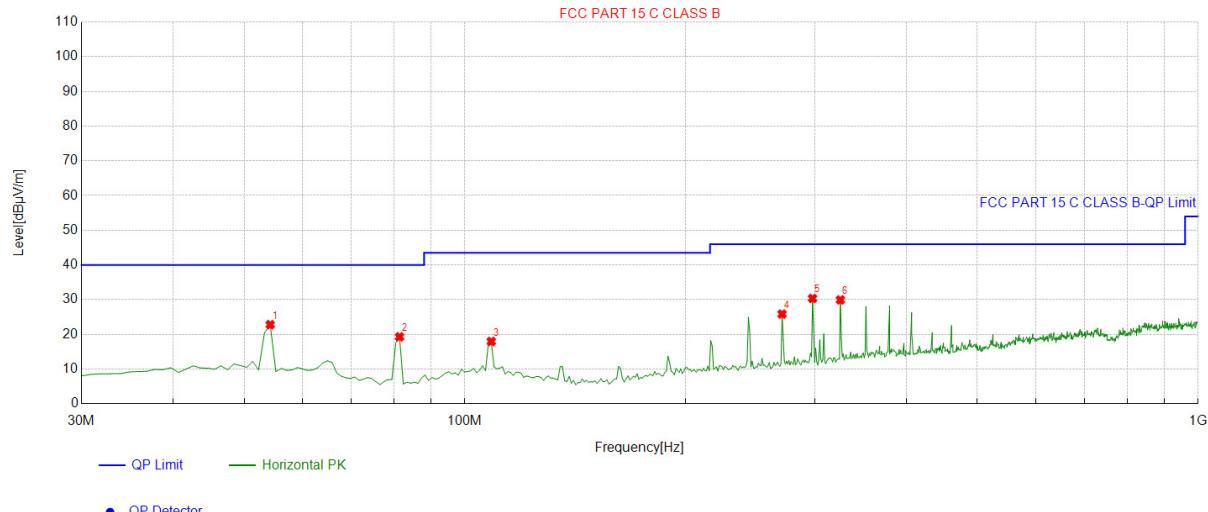
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Limit – Level



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About 30MHz-1GHz

Horizontal:



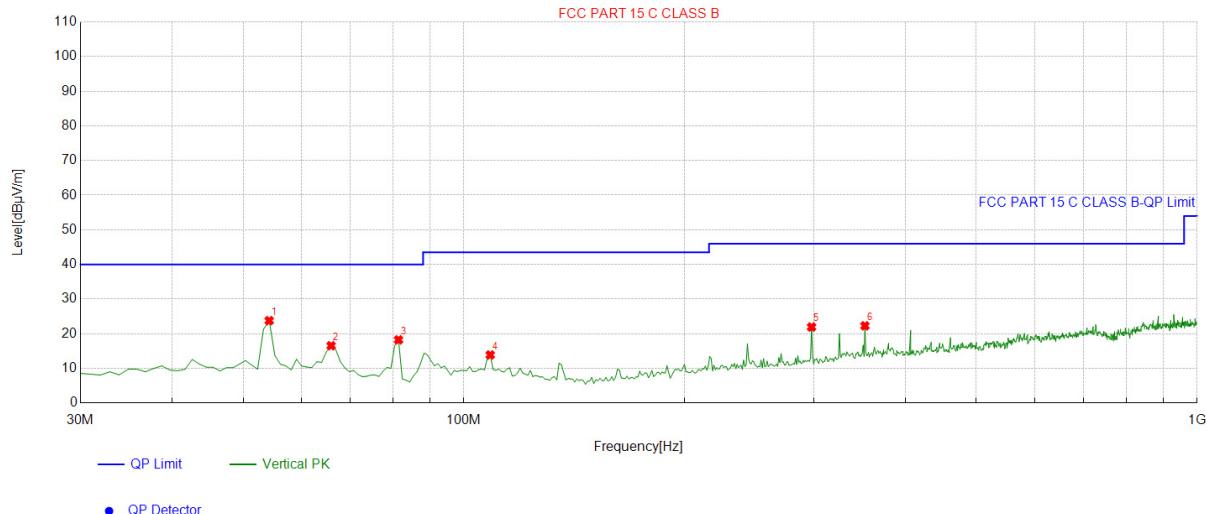
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.2743	-13.50	36.31	22.81	40.00	17.19	100	267	Horizontal
2	81.4615	-18.34	37.64	19.30	40.00	20.70	100	81	Horizontal
3	108.6486	-14.02	31.99	17.97	43.50	25.53	100	84	Horizontal
4	270.8008	-12.52	38.38	25.86	46.00	20.14	100	217	Horizontal
5	297.9880	-11.79	42.15	30.36	46.00	15.64	100	128	Horizontal
6	325.1752	-11.00	40.94	29.94	46.00	16.06	100	81	Horizontal

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



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Vertical:



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.2743	-13.50	37.28	23.78	40.00	16.22	100	164	Vertical
2	65.9259	-15.95	32.49	16.54	40.00	23.46	100	308	Vertical
3	81.4615	-18.34	36.58	18.24	40.00	21.76	100	149	Vertical
4	108.6486	-14.02	27.90	13.88	43.50	29.62	100	8	Vertical
5	297.9880	-11.79	33.74	21.95	46.00	24.05	100	102	Vertical
6	352.3624	-10.13	32.41	22.28	46.00	23.72	100	91	Vertical

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

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4.4. Occupied Bandwidth

4.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215
Test Method:	ANSI C63.10: 2020
Limit:	N/A
	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 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. 4. Measure and record the results in the test report.
Test Setup:	 <p>Spectrum Analyzer ————— EUT</p>
Test Mode:	Transmitting Mode
Test Results:	PASS

4.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	HKE-025	Feb. 18, 2026

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

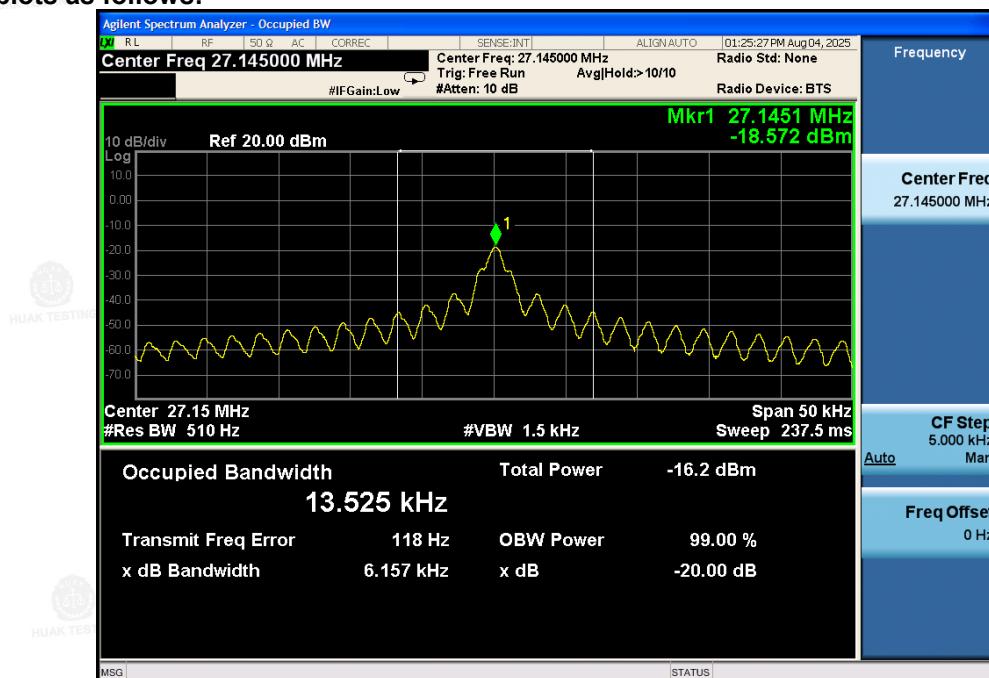


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4.4.3. Test data

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
27.145	6.157	N/A	PASS

Test plots as follows:



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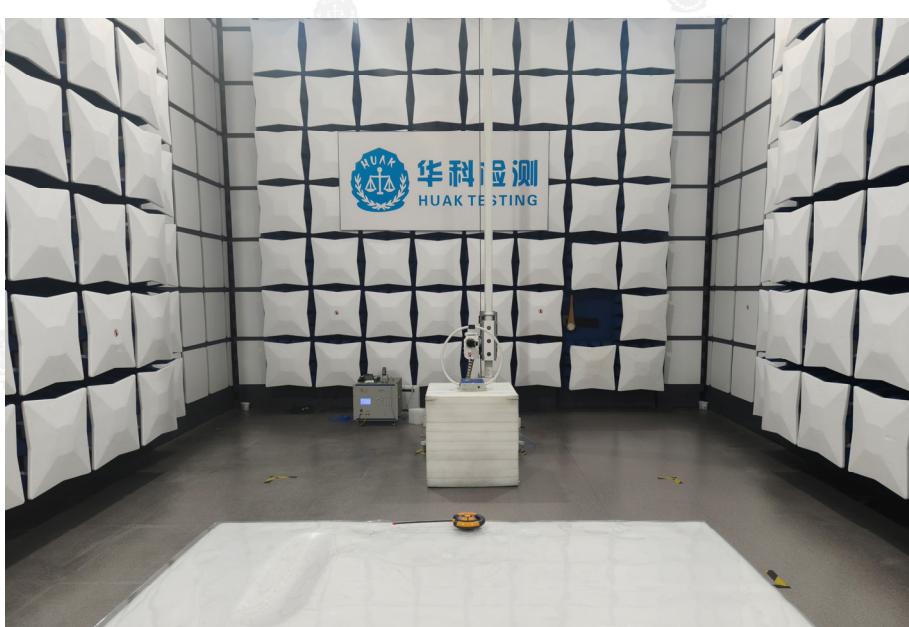
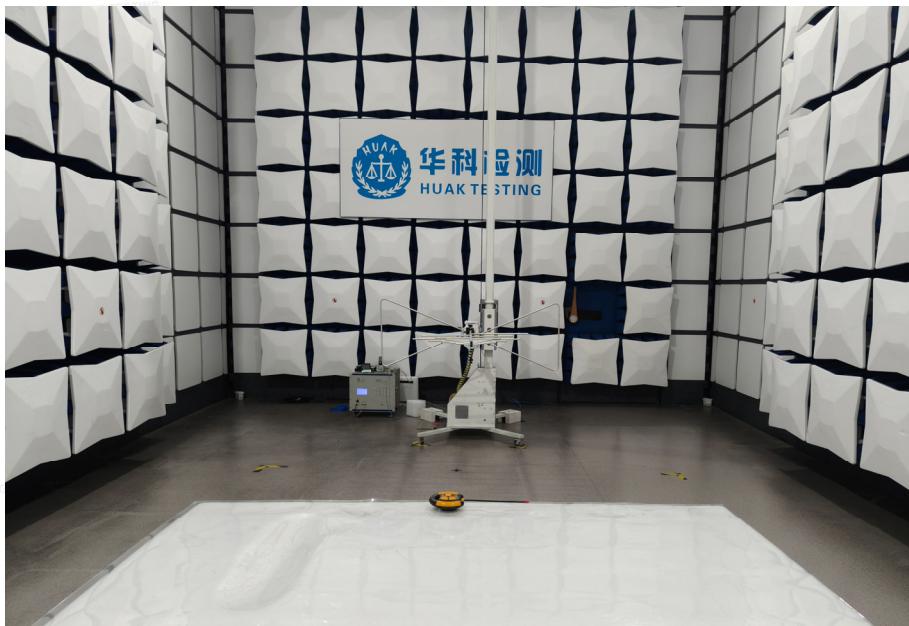
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5. Test Setup Photos of the EUT

Radiated Emission

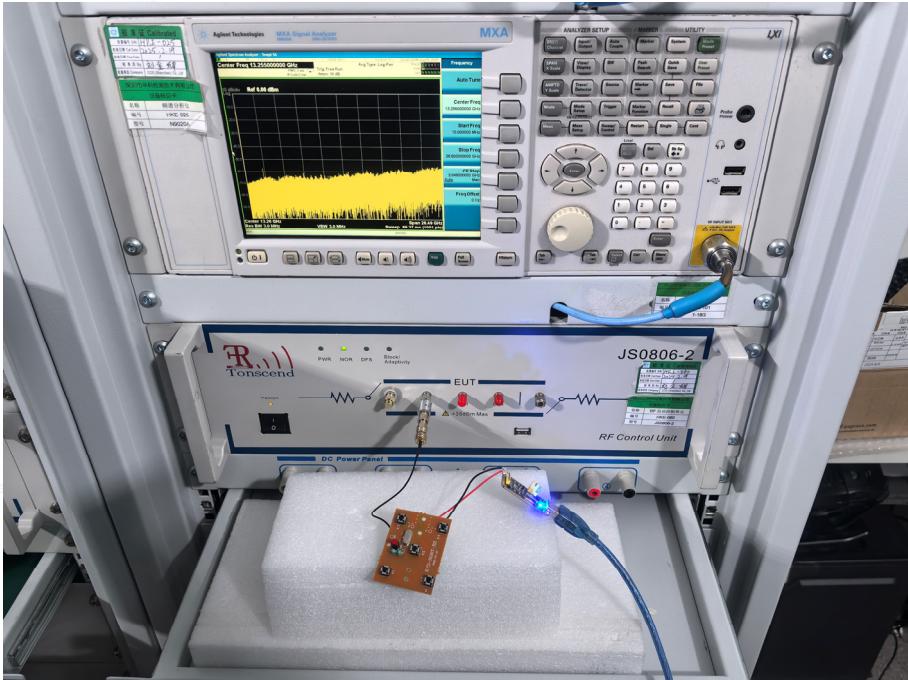




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RF Conducted Emission:





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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 test report-----



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