

RF TEST REPORT

FCC ID: 2BLRC-YL-WXC-02

Test Report No.....: RF260514006-01-001

Product(s) Name.....: Power Distribution Unit

Model(s).....: YL-WXC-02

Trade Mark.....: N/A

Applicant.....: YA LI ELECTRIC CO LTD

Address.....: Room 801, Building 9, No.6, Yuyuan 4th Road, Huangjiang
Town, Dongguan City, Guangdong Province, China

Receipt Date.....: 2026.6.2

Test Date.....: 2026.06.02 ~ 2026.06.05

Issued Date.....: 2026.06.05

Standards.....: 47 CFR FCC Part 15, Subpart C;

ANSI C63.10:2020

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Black Ding	Tim Zhang	
<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

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History of this test report

Original Report Issue Date: 2026.06.05

☒ No additional attachment

☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

YA LI ELECTRIC CO LTD

Room 801, Building 9, No.6, Yuyuan 4th Road, Huangjiang Town, Dongguan City, Guangdong Province, China

1.2 Manufacturer

YA LI ELECTRIC CO LTD

Room 801, Building 9, No.6, Yuyuan 4th Road, Huangjiang Town, Dongguan City, Guangdong Province, China

1.3 Basic Description of Equipment Under Test

Sample No.	POC260514006-S001
Product name	Power Distribution Unit
Model name	YL-WXC-02
Test model	YL-WXC-02
Model difference	/
Trade mark	N/A
Power supply:	DC 12V from adapter
WPT Output Power:	15W Max
Modulation type	ASK
Operating frequency	110-205kHz
Antenna type	Coil Antenna
Antenna Gain	0 dBi
Product Type	Fixed device

1.4 Application of Standard

47 CFR FCC Part 15, Subpart C and ANSI C63.10:2020

1.5 Independent Operation Modes

The basic operation modes are:

A. Adapter power supply+Wireless charging

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart C		
Test Item	FCC Clause	Results
AC Power Conducted Emission	15.207	Pass
Radiated Emission	15.209	Pass
Antenna Requirement	15.203	Pass
20dB Bandwidth	15.215(c)	Pass
Note: Pass: The EUT complies with the essential requirements in the standard.		

2.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Rating
Wireless charger load	EESON	SLY-YZB-A01	/
Power Supply	Shanghai Jingsai Electronic Technology Co., Ltd.	SG-120400050A	Input: 100-240V 50/60Hz 1.5A MAX Output: DC 12V 4.0A

2.3 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	22.9°C, 51 % RH	120Vac, 60Hz	Lemon He
Radiated Emission	23.1°C, 48 % RH	120Vac, 60Hz	Lemon He
20dB Bandwidth	22.9°C, 51 % RH	120Vac, 60Hz	Lemon He

2.4 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were

adapted accordingly in reference to the instructions for use.

2.5 Test Instruments

No.	Equipment	Manufacturer	Type No.	Serial No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal. Due date (yyyy/mm/dd)
Radiated Emissions							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2026/2/27	2027/2/26
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2028/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2026/2/27	2027/2/26
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2026/2/27	2027/2/26
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2028/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2026/4/08	2027/4/07
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB151 9B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2026/2/27	2027/2/26
10	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emission							
1	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2026/2/27	2027/2/26
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2026/2/27	2027/2/26
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2026/2/27	2027/2/26
3	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2026/2/27	2027/2/26
4	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2026/2/27	2027/2/26
5	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2026/4/08	2027/4/07
6	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				

2.6 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 102\text{kHz}$
RF power conducted	$\pm 0.243\text{dB}$
Power Spectral Density	$\pm 0.743\text{dB}$
Conducted Spurious Emission	$\pm 1.328\text{dB}$
Conducted emission(9kHz~30MHz) AC main	$\pm 2.68\text{dB}$
Radiated emission(9kHz~30MHz)	$\pm 3.50\text{dB}$
Radiated emission (30MHz~1GHz)	$\pm 4.20\text{dB}$
Radiated emission (1GHz~18GHz)	$\pm 5.10\text{dB}$
Radiated emission (18GHz~40GHz)	$\pm 5.26\text{dB}$

2.7 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier	CN0145
A2LA Certificate Number	6823.01

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
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

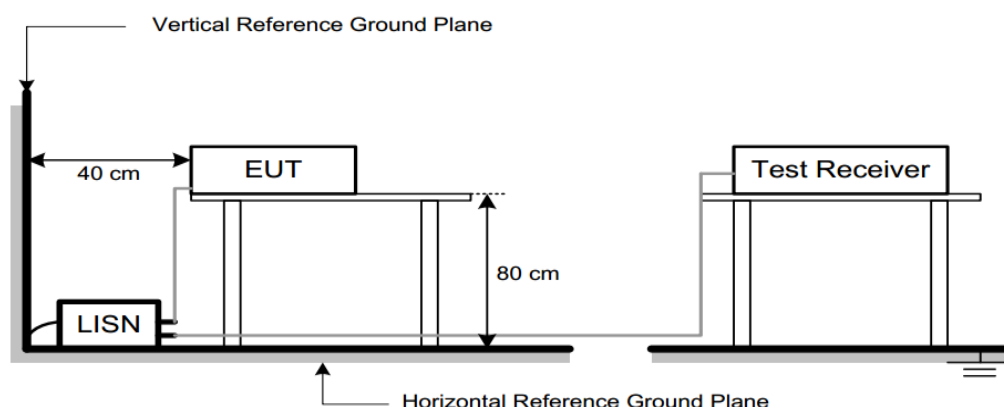
Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 Test Procedure

- a) The EUT was placed 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (AMN). All other support equipment powered from additional AMN. The AMN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b) Interconnecting cables that hang closer than 0.4 m to the ground plane shall be folded back and forth in the center forming a bundle 0.3 m to 0.4 m long.
- c) The frequency range from 150 kHz to 30 MHz was searched.
- d) Actual test configuration, please refer to the related Item – EUT Test Photos.
- e) The thickness of the insulation shall not be more than 150 mm.

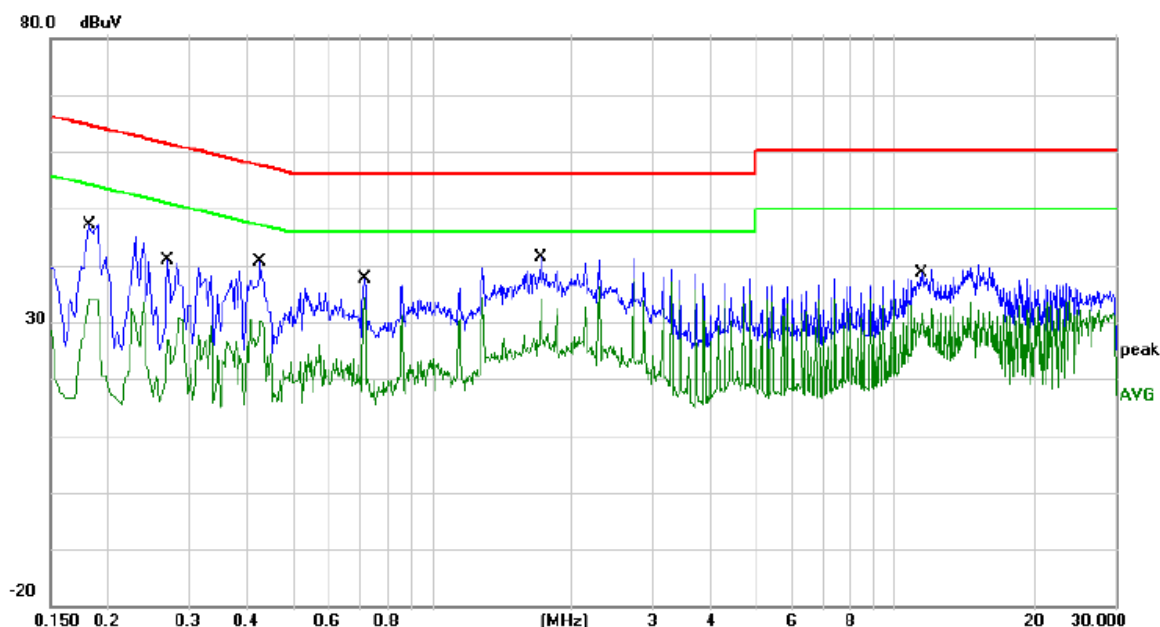
3.1.3 Test Setup



3.1.4 Test Result

Test Frequency range:	150kHz~30MHz
Test mode:	A
Test voltage:	AC 120V/60Hz
Phase	Line

Conducted Emission Measurement



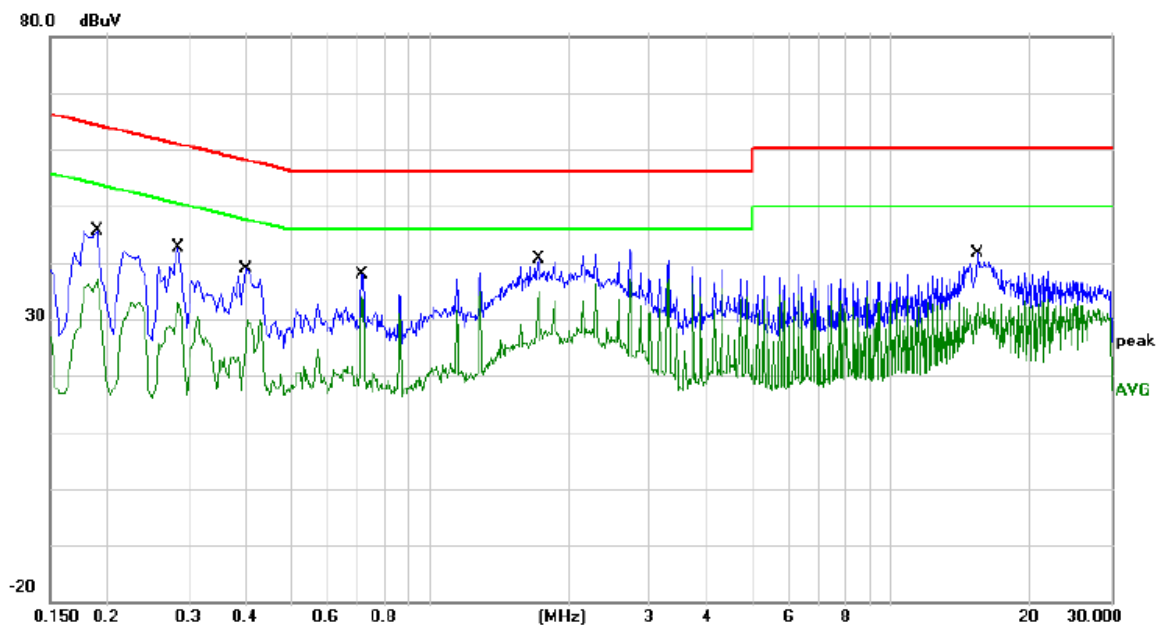
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1833	24.34	19.56	43.90	64.33	-20.43	QP	
2		0.1833	12.69	19.56	32.25	54.33	-22.08	AVG	
3		0.2710	16.23	19.49	35.72	61.09	-25.37	QP	
4		0.2710	4.55	19.49	24.04	51.09	-27.05	AVG	
5		0.4281	17.03	19.33	36.36	57.29	-20.93	QP	
6		0.4281	9.64	19.33	28.97	47.29	-18.32	AVG	
7		0.7160	15.96	19.45	35.41	56.00	-20.59	QP	
8		0.7160	14.74	19.45	34.19	46.00	-11.81	AVG	
9		1.7214	18.93	19.26	38.19	56.00	-17.81	QP	
10	*	1.7214	14.96	19.26	34.22	46.00	-11.78	AVG	
11		11.4656	17.47	19.50	36.97	60.00	-23.03	QP	
12		11.4656	14.01	19.50	33.51	50.00	-16.49	AVG	

Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement - Limit

Test Frequency range:	150kHz~30MHz
Test mode:	A
Test voltage:	AC 120V/60Hz
Phase	Neutral

Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1878	21.80	19.54	41.34	64.13	-22.79	QP	
2		0.1878	13.67	19.54	33.21	54.13	-20.92	AVG	
3		0.2852	17.98	19.56	37.54	60.66	-23.12	QP	
4		0.2852	12.54	19.56	32.10	50.66	-18.56	AVG	
5		0.3957	13.43	19.56	32.99	57.94	-24.95	QP	
6		0.3957	1.70	19.56	21.26	47.94	-26.68	AVG	
7		0.7148	16.26	19.46	35.72	56.00	-20.28	QP	
8	*	0.7148	14.95	19.46	34.41	46.00	-11.59	AVG	
9		1.7178	17.72	19.53	37.25	56.00	-18.75	QP	
10		1.7178	14.35	19.53	33.88	46.00	-12.12	AVG	
11		15.4453	17.84	19.41	37.25	60.00	-22.75	QP	
12		15.4453	13.13	19.41	32.54	50.00	-17.46	AVG	

Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement - Limit

3.2 Radiated Emissions

3.2.1 Limit

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

(4) The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

3.2.2 Test Procedure

Below 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

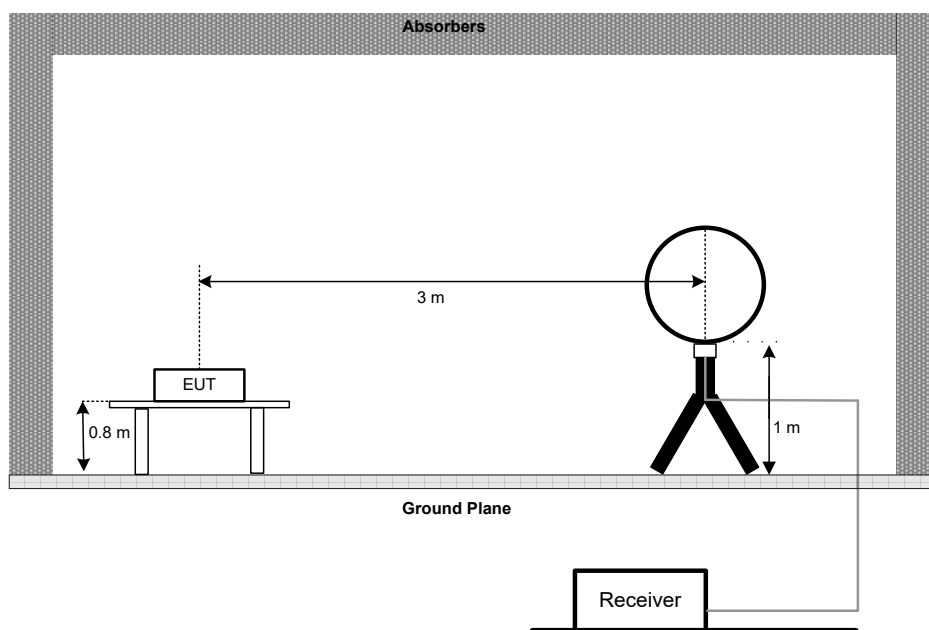
30MHz~1GHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

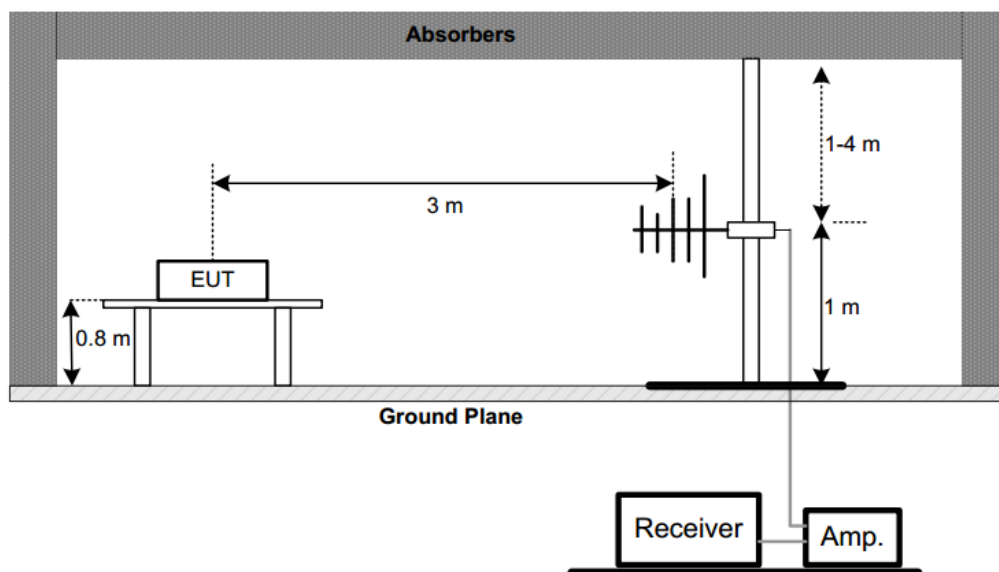
- c) The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was 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.
- e) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency Below 30MHz



(B) Radiated Emission Test Set-Up Frequency Below 1 GHz



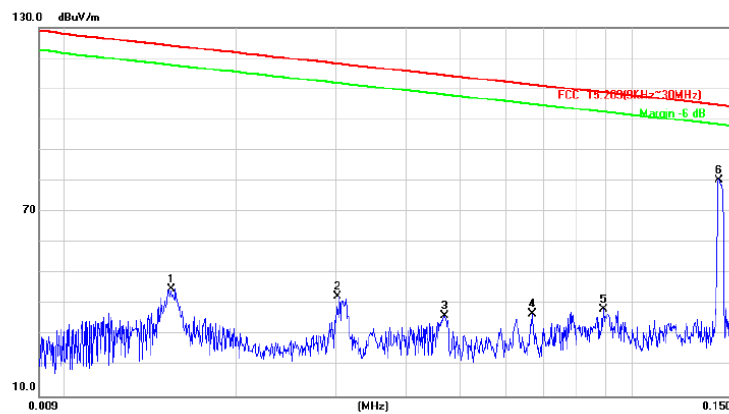
3.2.4 Test Result

Below 30MHz

Test mode: A

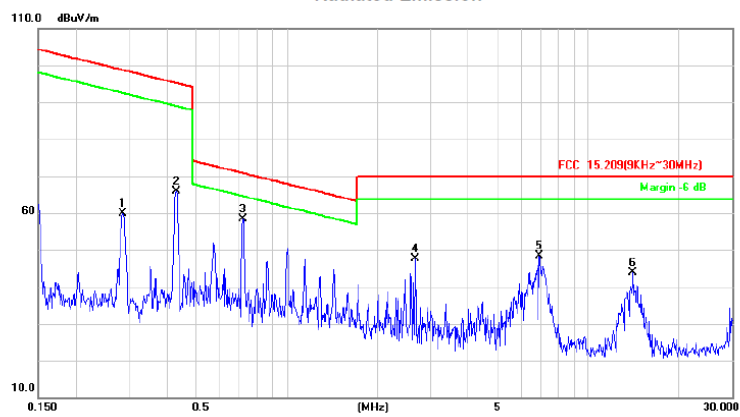
Parallel

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0154	45.28	-0.23	45.05	123.69	-78.64			peak
2		0.0303	42.72	-0.09	42.63	117.84	-75.21			peak
3		0.0468	36.57	-0.26	36.31	114.09	-77.78			peak
4		0.0666	37.11	-0.29	36.82	111.04	-74.22			peak
5		0.0890	38.42	-0.10	38.32	108.53	-70.21			peak
6	*	0.1423	80.76	-0.51	80.25	104.48	-24.23			peak

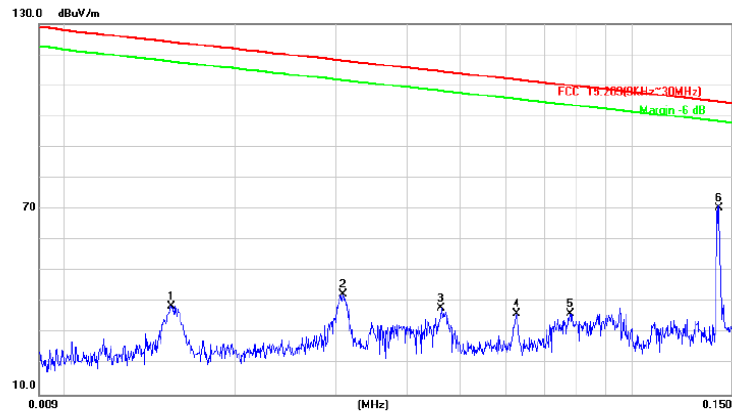
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.2862	60.22	-0.38	59.84	98.44	-38.60			peak
2		0.4305	66.11	-0.22	65.89	94.92	-29.03			peak
3	*	0.7160	58.29	0.04	58.33	70.51	-12.18			peak
4		2.6641	55.66	-8.07	47.59	69.54	-21.95			peak
5		6.8776	58.48	-10.04	48.44	69.54	-21.10			peak
6		14.0628	54.23	-10.40	43.83	69.54	-25.71			peak

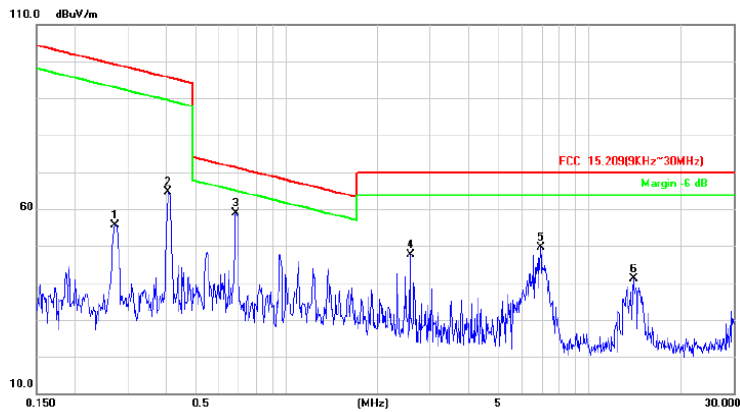
Perpendicular

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0154	39.02	-0.23	38.79	123.69	-84.90	peak		
2		0.0310	42.76	-0.10	42.66	117.64	-74.98	peak		
3		0.0461	38.30	-0.25	38.05	114.22	-76.17	peak		
4		0.0627	36.42	-0.29	36.13	111.56	-75.43	peak		
5		0.0780	36.46	-0.21	36.25	109.67	-73.42	peak		
6 *		0.1422	70.92	-0.51	70.41	104.49	-34.08	peak		

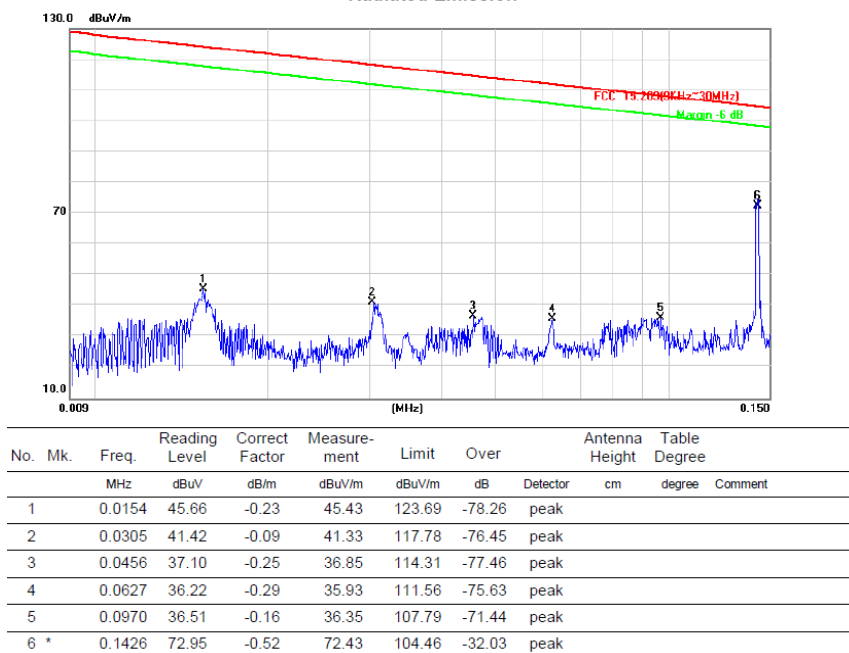
Radiated Emission



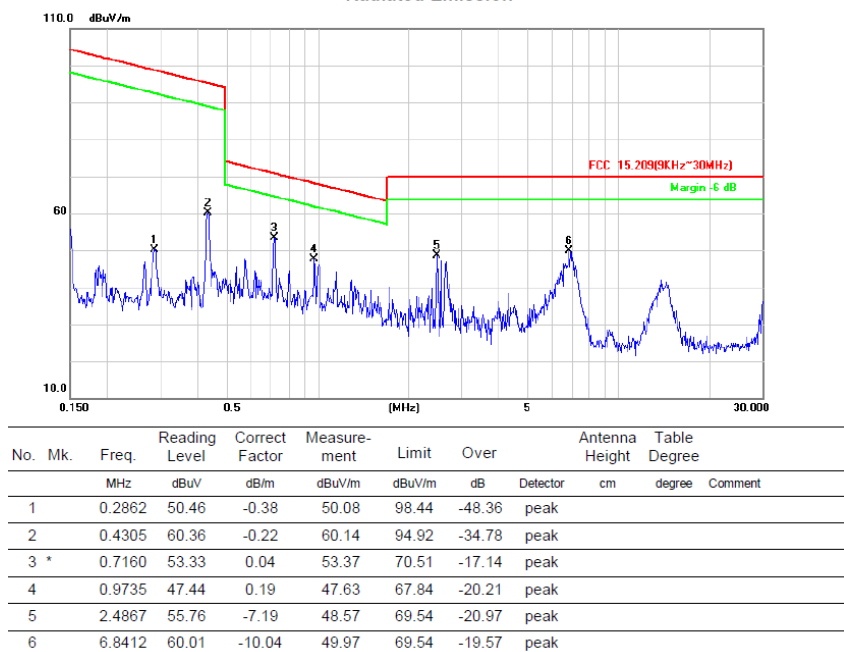
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.2814	55.94	-0.41	55.53	98.90	-43.37	peak		
2		0.4302	64.89	-0.24	64.65	95.38	-30.73	peak		
3 *		0.7165	58.86	0.02	58.88	70.92	-12.04	peak		
4		2.4860	55.11	-7.60	47.51	69.54	-22.03	peak		
5		6.8411	59.75	-10.05	49.70	69.54	-19.84	peak		
6		13.9885	51.54	-10.39	41.15	69.54	-28.39	peak		

Ground- parallel

Radiated Emission



Radiated Emission

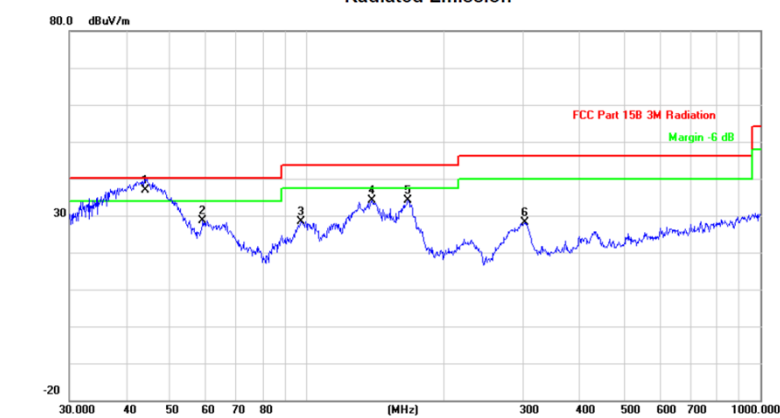


Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Measure-ment = Reading Level + Correct Factor.
3. Over = Measure-ment – Limit

Vertical

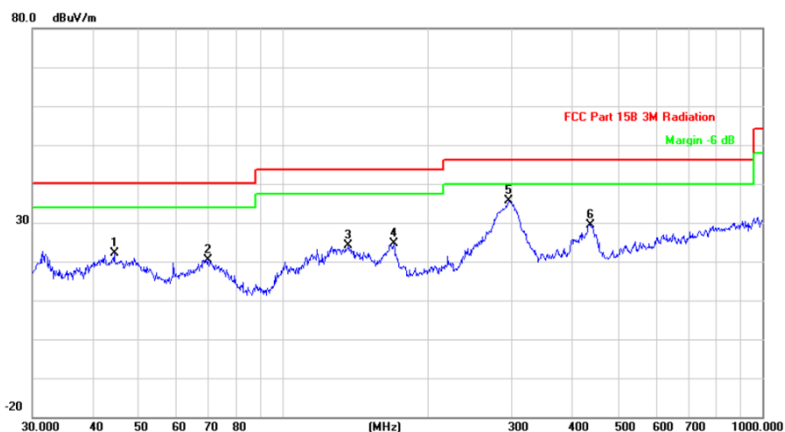
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	44.1202	47.40	-10.40	37.00	40.00	-3.00			QP
2		59.0251	38.95	-10.34	28.61	40.00	-11.39			peak
3		97.1148	42.10	-13.70	28.40	43.50	-15.10			peak
4		139.3611	44.08	-10.03	34.05	43.50	-9.45			peak
5		167.2366	44.15	-9.99	34.16	43.50	-9.34			peak
6		302.4811	37.56	-9.51	28.05	46.00	-17.95			peak

Horizontal

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		44.4307	32.98	-10.83	22.15	40.00	-17.85			peak
2		69.6004	33.34	-12.88	20.46	40.00	-19.54			peak
3		136.9391	35.05	-10.98	24.07	43.50	-19.43			peak
4		170.1947	35.17	-10.59	24.58	43.50	-18.92			peak
5	*	296.1836	45.99	-10.24	35.75	46.00	-10.25			peak
6		438.6554	35.20	-5.87	29.33	46.00	-16.67			peak

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement - Limit

3.3 20dB bandwidth measurement

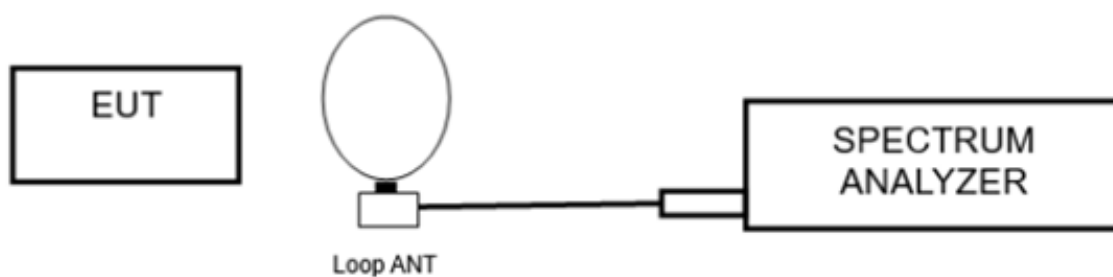
3.3.1 Test standard

FCC Part 15.215(c)

3.3.2 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Environmental Conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

3.3.3 Test Setup

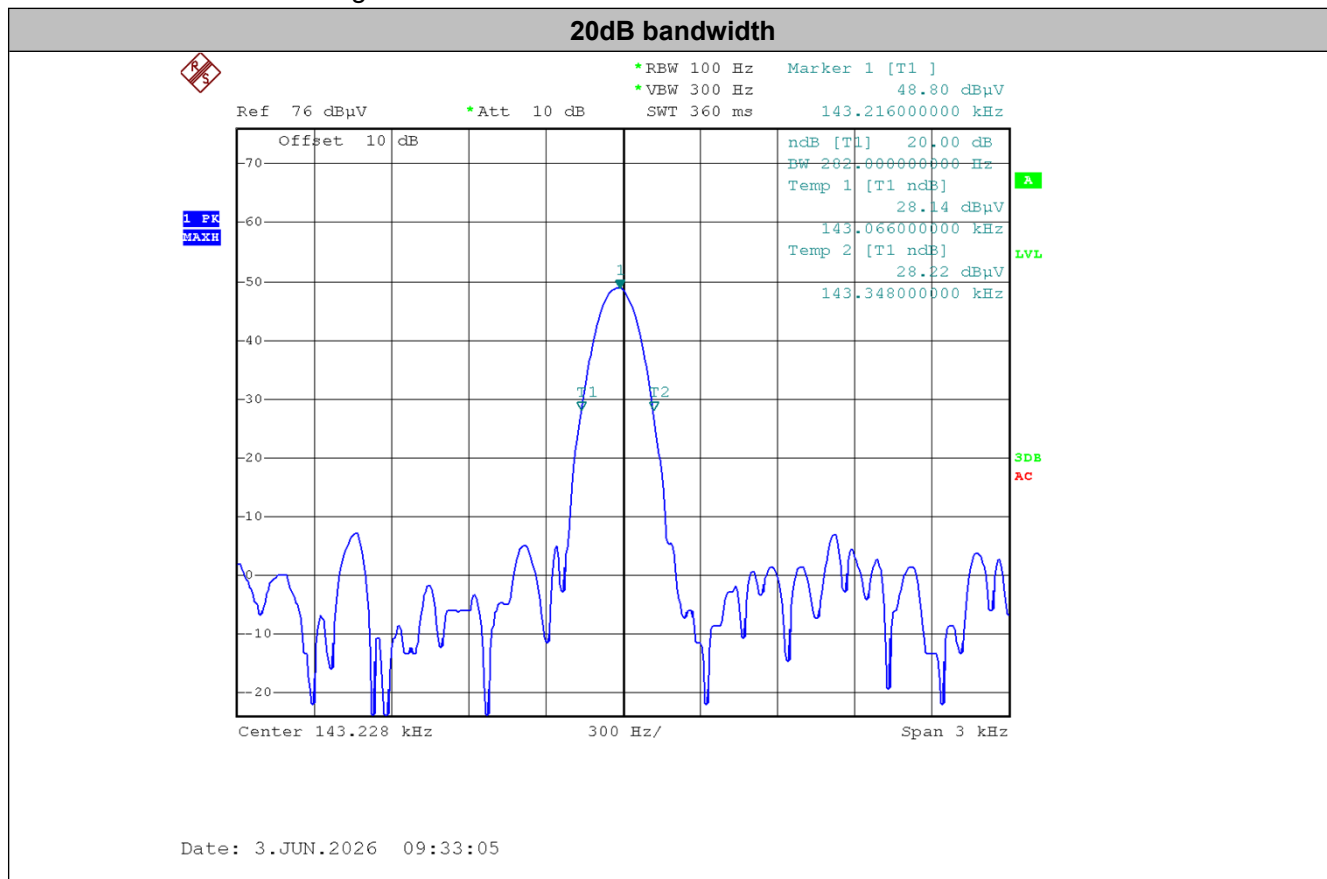


3.3.4 Test results

Test mode	20dB bandwidth (kHz)
A	0.282

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 100 Hz to perform the occupied bandwidth test.

For details refer to following test result.



4. Antenna Requirement

Test Specification

Test standard : Part 15.203

According to the manufacturer declared, the EUT has a coil antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

(END OF REPORT)