

RF TEST REPORT

For

Dongguan City Humen Yongxin Electronic Factory

Product Name: ice cooling fan wireless charger

Test Model(s): YX-731

Report Reference No. : DACE251225001RF001

FCC ID : 2BAYR-YX-731

Applicant's Name : Dongguan City Humen Yongxin Electronic Factory

Address : NO.2,hongmian road 1,danang district,Humen town, Dongguan city, China

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

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Test Specification Standard : 47 CFR Part 15 C

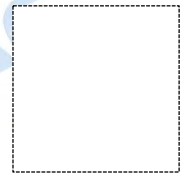
Date of Receipt : December 25, 2025

Date of Test : December 25, 2025 to January 7, 2026

Date of Issue : January 7, 2026

Result : Pass

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Apply for company information

Applicant's Name	:	Dongguan City Humen Yongxin Electronic Factory
Address	:	NO.2,hongmian road 1,danling district,Humen town, Dongguan city, China
Product Name	:	ice cooling fan wireless charger
Test Model(s)	:	YX-731
Test Specification Standard(s)	:	47 CFR Part 15 C

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

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January 7, 2026

Supervised by:

Stone Yin / Project Engineer

January 7, 2026

Approved by:

Tom Chen / Manager

January 7, 2026

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE251225001RF001	January 7, 2026

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15 C: Radiated emission limits; general requirements

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.03	/	47 CFR Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.207	ANSI C63.10-2020 section 6.2	47 CFR Part 15.207(a)	Pass
20dB Occupied Bandwidth	47 CFR Part 15.215	ANSI C63.10-2020, section 6.9.2	47 CFR Part 15.215(c)	Pass
Emissions in frequency bands (below 30MHz)	47 CFR Part 15.209	ANSI C63.10-2020 section 6.4	47 CFR Part 15.209	Pass
Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15.209	ANSI C63.10-2020 section 6.5	47 CFR Part 15.209	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Dongguan City Humen Yongxin Electronic Factory
Address : NO.2,hongmian road 1,danang district,Humen town, Dongguan city, China

Manufacturer : Dongguan City Humen Yongxin Electronic Factory
Address : NO.2,hongmian road 1,danang district,Humen town, Dongguan city, China

2.2 Description of Device (EUT)

Product Name:	ice cooling fan wireless charger
Model/Type reference:	YX-731
Trade Mark:	N/A
Power Supply:	Input: 5V/2A, 9V/3A, 15V/3A Wireless charging output: 5W/7.5W/10W/15W
Operation Frequency:	110-205kHz
Modulation Type:	ASK
Antenna Type:	Inductive loop coil Antenna
Antenna Gain:	0dBi
Hardware Version:	V1.0
Software Version:	V1.0

2.3 Description of Test Modes

No	Title	Description
TM1	Wireless Charging	Keep the EUT in TX mode
Test Environment		Normal Voltage(DC): 5V

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
Adapter	PHOTON	ATXC-069AC65B	/
Wireless Charging Load Module	YBZ	V3.x(30W/Q12/MPP)	/

2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
loop antenna	EVERFINE	LLA-2	80900L-C	2025-04-17	2026-04-16
Power absorbing clamp	SCHWARZ BECK	MESS-ELEKTRONIK	/	2025-04-23	2026-04-22
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	2025-04-18	2026-04-17
Cable	SCHWARZ BECK	/	/	2025-04-18	2026-04-17
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2025-12-02	2026-12-01
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2025-04-25	2026-04-24
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2025-04-18	2026-04-17
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2025-04-18	2026-04-17
Pulse Limiter	CYBERTEK	EM5010A	/	2025-04-25	2026-04-24
EMI test software	EZ -EMC	EZ	V1.1.42	/	/

20dB Occupied Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information Technology(she nzheng) Co.,Ltd.	RTS-01	V1.0.0	/	/
RF Sensor Unit	Tachoy Information Technology(she nzheng) Co.,Ltd.	TR1029-2	000001	/	/
Wideband radio communication tester	R&S	CMW500	113410	2025-04-25	2026-04-24
Vector Signal Generator	Keysight	N5181A	MY50143455	2025-12-02	2026-12-01
Signal Generator	Keysight	N5182A	MY48180415	2025-12-02	2026-12-01
Spectrum Analyzer	Keysight	N9020A	MY53420323	2025-12-02	2026-12-01

Emissions in frequency bands (below 30MHz)
Emissions in frequency bands (30MHz - 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2025-04-28	2026-04-27
Cable(LF)#2	Schwarzbeck	/	/	2025-04-12	2026-04-11
Cable(LF)#1	Schwarzbeck	/	/	2025-04-17	2026-04-16
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2025-04-25	2026-04-24
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2025-04-25	2026-04-24
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2025-04-29	2026-04-28
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2025-04-29	2026-04-28
Wideband radio communication tester	R&S	CMW500	113410	2025-04-25	2026-04-24
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-JR	2025-04-18	2026-04-17
Test Receiver	R&S	ESCI 3	1166.5950K03-101431-Jq	2025-04-18	2026-04-17
Horn Antenna	Sunol Sciences	DRH-118	A091114	2025-04-21	2026-04-20
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Occupied Bandwidth	±3.63%
Radiated Emission (Below 1GHz)	±5.79dB
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.
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3.1.1 Conclusion:



4 Radio Spectrum Matter Test Results (RF)

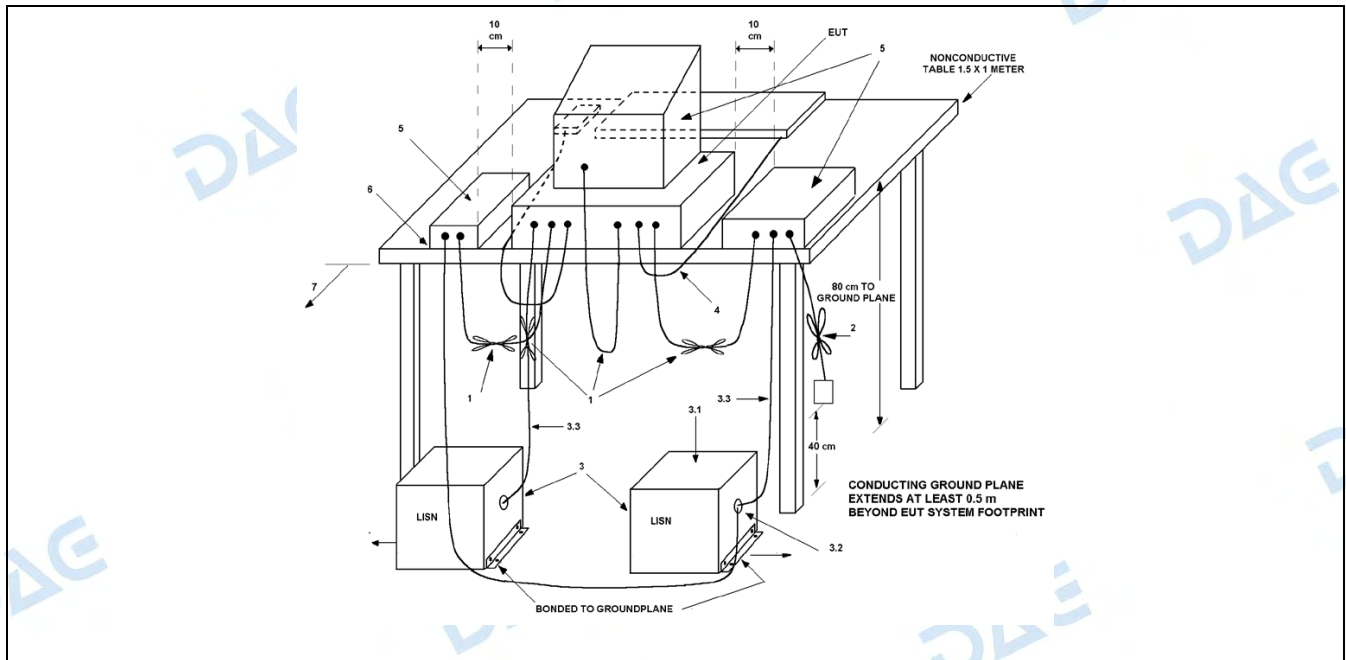
4.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.10-2020 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

4.1.1 E.U.T. Operation:

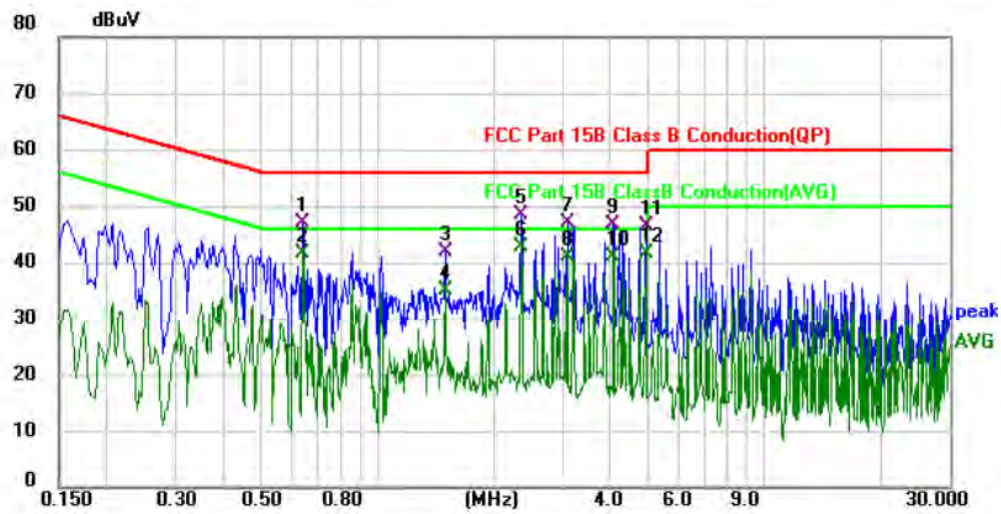
Operating Environment:			
Temperature:	23.8 °C	Humidity:	47 %
Atmospheric Pressure:	101.1 kPa		
Pretest mode:	TM1		
Final test mode:	TM1		

4.1.2 Test Setup Diagram:



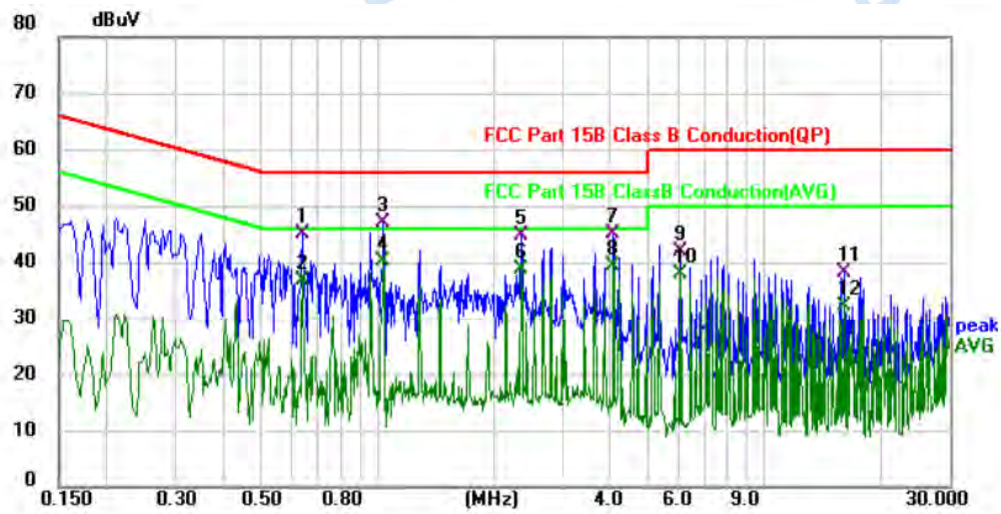
4.1.3 Test Data:

TM1 / Line: Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.6419	37.03	10.10	47.13	56.00	-8.87	QP	
2		0.6419	31.58	10.10	41.68	46.00	-4.32	AVG	
3		1.5020	31.74	10.06	41.80	56.00	-14.20	QP	
4		1.5020	25.00	10.06	35.06	46.00	-10.94	AVG	
5		2.3580	38.30	10.02	48.32	56.00	-7.68	QP	
6	*	2.3580	32.64	10.02	42.66	46.00	-3.34	AVG	
7		3.1020	37.02	10.08	47.10	56.00	-8.90	QP	
8		3.1020	30.97	10.08	41.05	46.00	-4.95	AVG	
9		4.0700	36.49	10.16	46.65	56.00	-9.35	QP	
10		4.0700	30.97	10.16	41.13	46.00	-4.87	AVG	
11		4.9300	36.37	10.18	46.55	56.00	-9.45	QP	
12		4.9300	31.46	10.18	41.64	46.00	-4.36	AVG	

TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.6380	35.02	10.10	45.12	56.00	-10.88	QP	
2		0.6380	26.55	10.10	36.65	46.00	-9.35	AVG	
3		1.0339	36.87	10.11	46.98	56.00	-9.02	QP	
4	*	1.0339	30.00	10.11	40.11	46.00	-5.89	AVG	
5		2.3580	34.64	10.02	44.66	56.00	-11.34	QP	
6		2.3580	28.61	10.02	38.63	46.00	-7.37	AVG	
7		4.0700	34.81	10.16	44.97	56.00	-11.03	QP	
8		4.0700	29.22	10.16	39.38	46.00	-6.62	AVG	
9		6.0700	31.59	10.21	41.80	60.00	-18.20	QP	
10		6.0700	27.53	10.21	37.74	50.00	-12.26	AVG	
11		16.0700	27.67	10.52	38.19	60.00	-21.81	QP	
12		16.0700	21.73	10.52	32.25	50.00	-17.75	AVG	

NOTE:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor, Over = Limit - Measurement

4.2 20dB Occupied Bandwidth

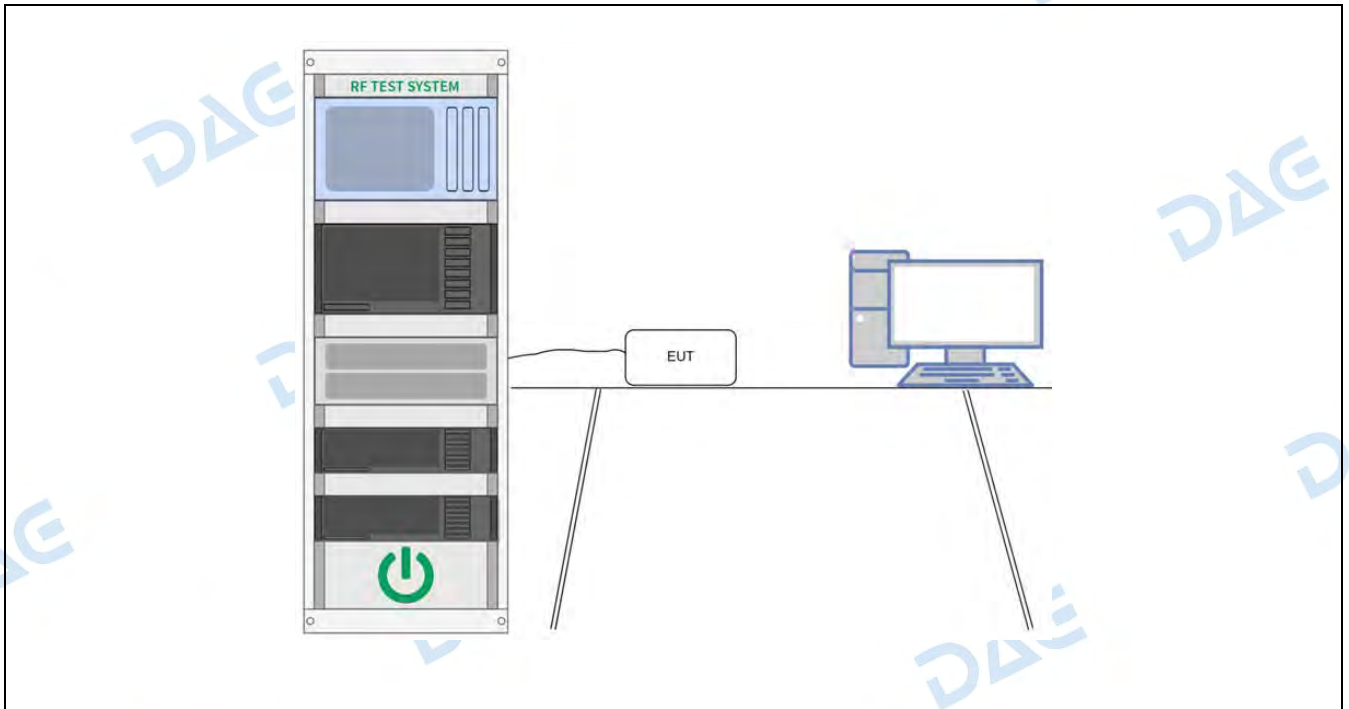
Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 6.9.2
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.9 °C	Humidity:	52 %	Atmospheric Pressure:	101.1 kPa
Pretest mode:	TM1				

Final test mode:	TM1
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4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Mode	Freq (kHz)	20dB Bandwidth (Hz)	Limit (Hz)	Conclusion
Tx Mode	127.7	247	/	PASS



4.3 Emissions in frequency bands (below 30MHz)

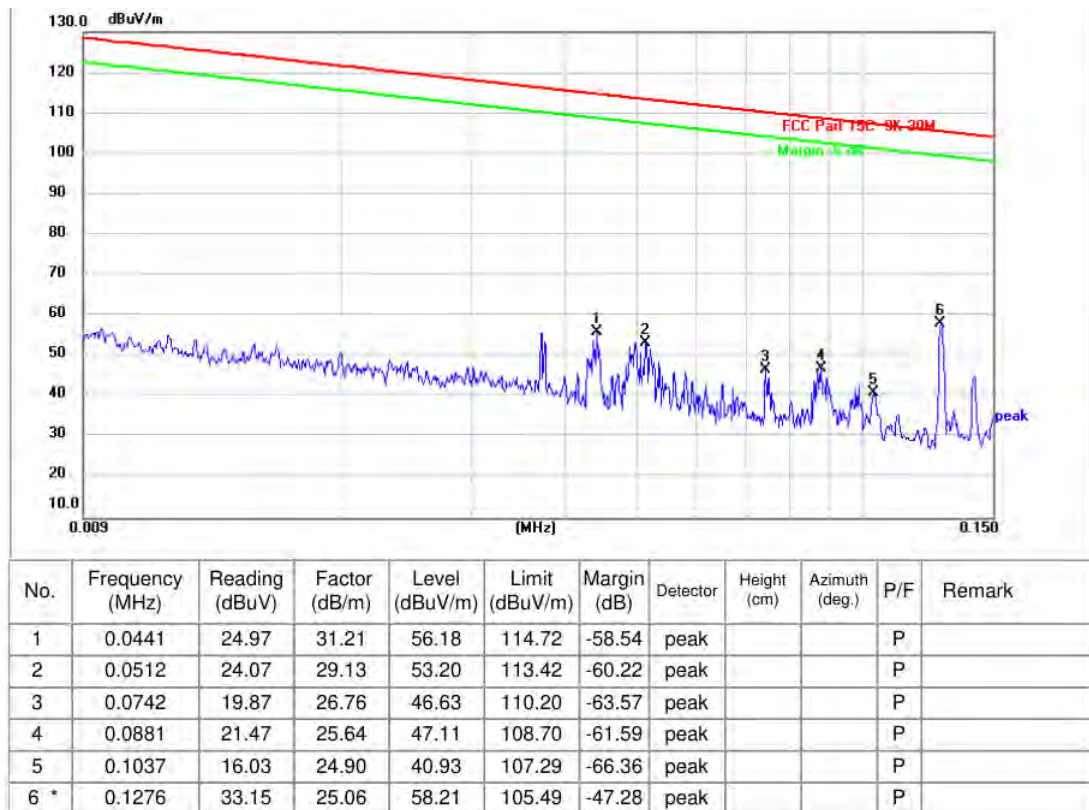
Test Requirement:	47 CFR Part 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (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 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.			
Test Method:	ANSI C63.10-2020 section 6.4		
Procedure:	ANSI C63.10-2020 section 6.4		

4.3.1 E.U.T. Operation:

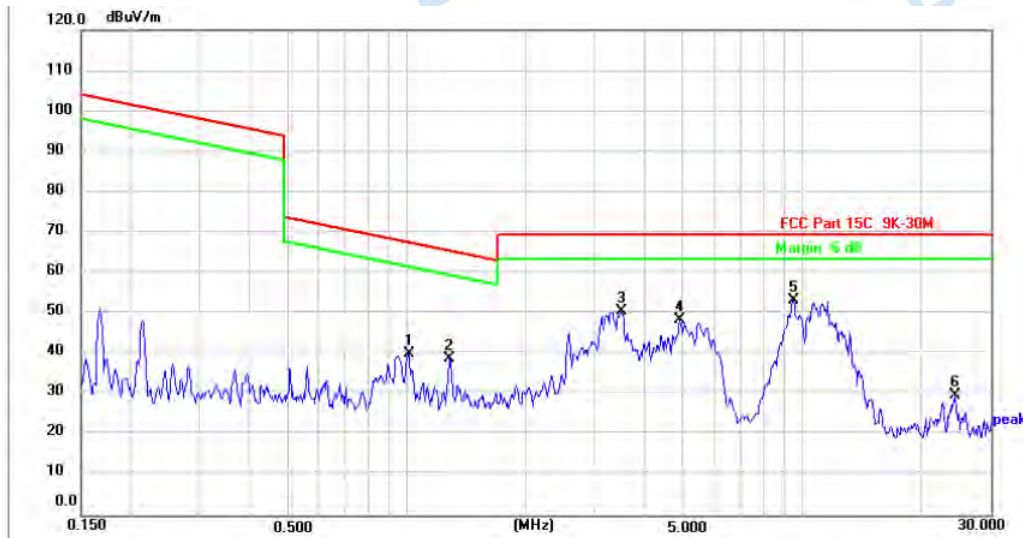
Operating Environment:					
Temperature:	22.8 °C	Humidity:	53 %	Atmospheric Pressure:	101.1 kPa
Pretest mode:		TM1			
Final test mode:		TM1			

4.3.2 Test Data:

TM1 / Polarization: 9kHz-150kHz



TM1 / Polarization: 150kHz-30MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1.0103	12.92	27.02	39.94	67.53	-27.59	peak			P	
2	1.2823	11.93	27.00	38.93	65.47	-26.54	peak			P	
3	3.4906	23.67	26.81	50.48	69.54	-19.06	peak			P	
4	4.8996	21.77	26.72	48.49	69.54	-21.05	peak			P	
5 *	9.5016	26.07	27.09	53.16	69.54	-16.38	peak			P	
6	24.3994	4.61	25.37	29.98	69.54	-39.56	peak			P	

4.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209		
Test Limit:	Frequency (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
** 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 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.			
Test Method:	ANSI C63.10-2020 section 6.5		
Procedure:	ANSI C63.10-2020 section 6.5		

4.4.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.8 °C	Humidity:	53 %
Atmospheric Pressure:	101.1 kPa		
Pretest mode:	TM1		
Final test mode:	TM1		

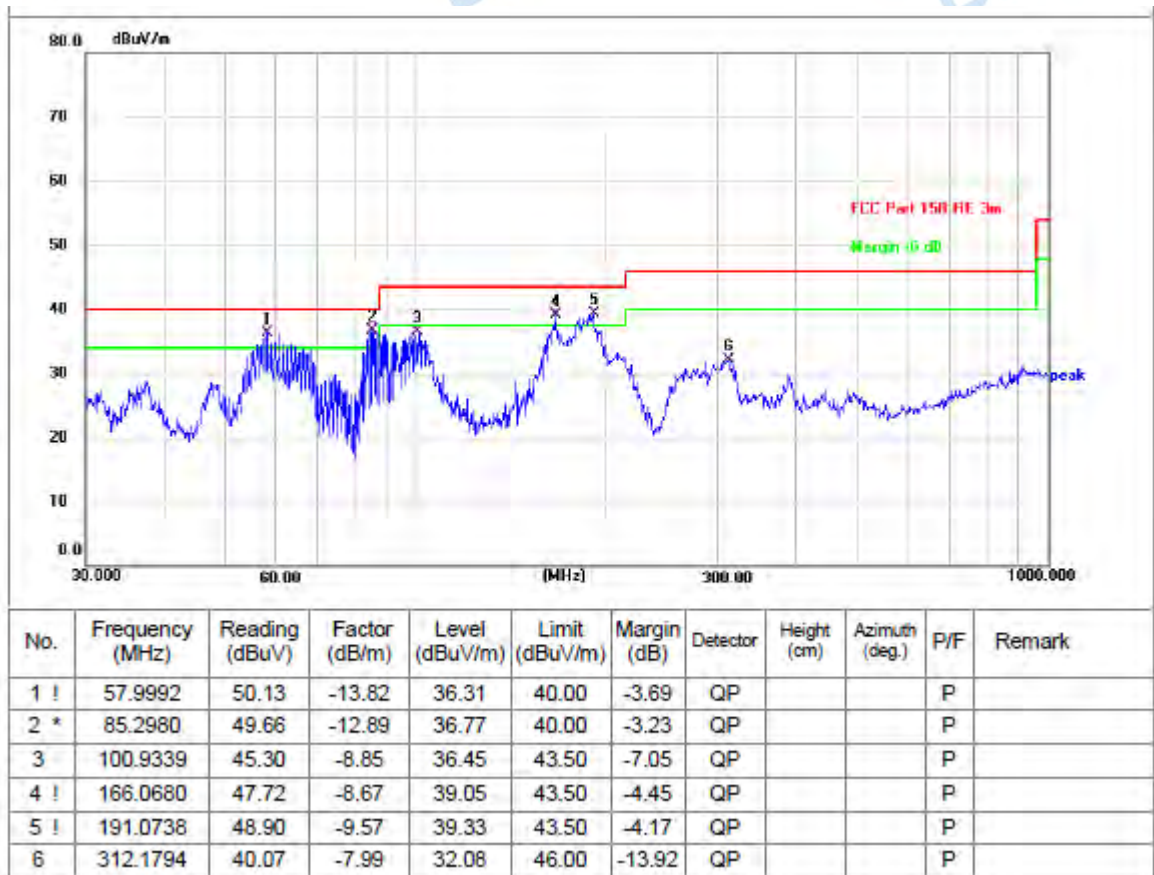
4.4.2 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	102.0014	38.27	-8.63	29.64	43.50	-13.86	QP	100		P	
2	169.5990	42.33	-8.84	33.49	43.50	-10.01	QP	100		P	
3 *	189.7385	49.80	-10.05	39.75	43.50	-3.75	QP	100		P	
4	273.2341	45.86	-8.39	37.47	46.00	-8.53	QP	100		P	
5	293.0842	41.22	-8.05	33.17	46.00	-12.83	QP	100		P	
6	393.4723	38.68	-6.12	32.56	46.00	-13.44	QP	100		P	

TM1 / Polarization: Vertical



5 TEST SETUP PHOTOS

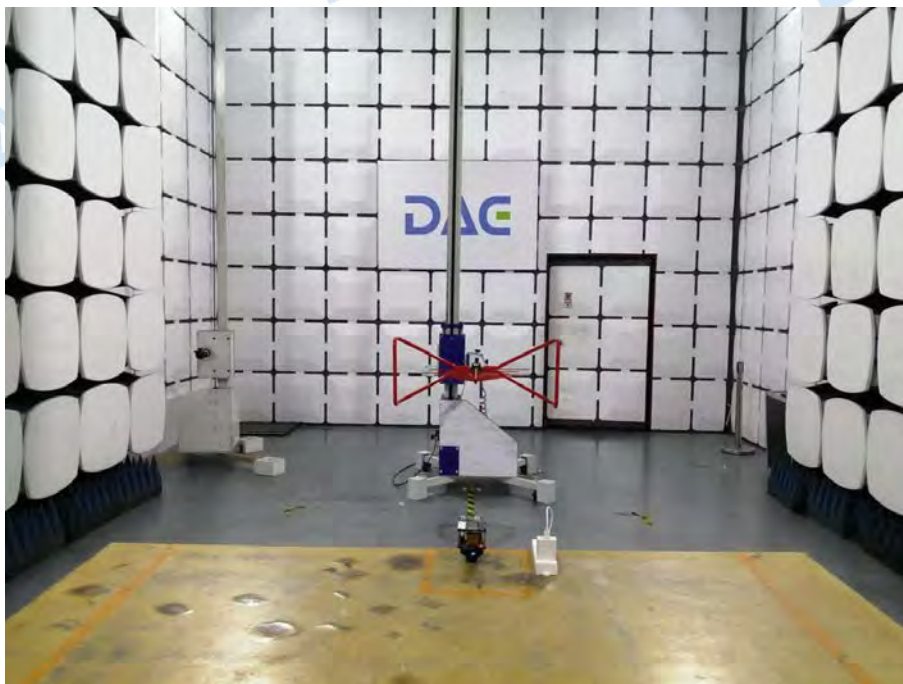
Conducted Emission at AC power line



Emissions in frequency bands (below 30MHz)



Emissions in frequency bands (30MHz - 1GHz)



6 PHOTOS OF THE EUT

Refer to Appendix - EUT Photos for EUT External Photo and Internal Photo.

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