

TEST REPORT

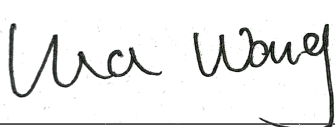
Applicant:	Zhuhai Tessian Power Technology Co.,Ltd.		
Address:	Building 14, Xiangzhou Chuanggang Center, No.199, Weikang Road, Xiangzhou District, Zhuhai, Guangdong Province, China		
Manufacturer:	Zhuhai Tessian Power Technology Co.,Ltd.		
Address:	Building 14, Xiangzhou Chuanggang Center, No.199, Weikang Road, Xiangzhou District, Zhuhai, Guangdong Province, China		
Factory:	Dong Guan City GangQi Electronic Co., Ltd.		
Address:	1 Building, No. 13 Maoye Road ChangXiang Village, HengLi Town 523600 DongGuan, GuangDong PEOPLE'S REPUBLIC OF CHINA		
E.U.T.:	TESSAN Charging Station		
Model Number:	TS-WR02US00, TS-WR02US01		
Trade Mark:	TESSAN		
FCC ID:	2A4EP-WR02US		
Date of Receipt:	2026-05-30	Date of Test:	2026-05-30 to 2026-08-03
Test Specification:	FCC 47 CFR Part 15, Subpart C		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
Prepared by:		Approved & Authorized Signer:	
			
Una Wang/ Engineer		Frank Shen/ Manager	
		Issue Date: 2026-09-21	
This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Dongguan Lepont Testing Service Co., Ltd.			

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[illegible]

1. GENERAL PRODUCT INFORMATION

1.1. PRODUCT FUNCTION

Refer to Technical Construction Form and User Manual.

1.2. EUT TECHNICAL DESCRIPTION

Product Name:	TESSAN Charging Station
Model No.:	TS-WR02US00, TS-WR02US01
Test Model No:	TS-WR02US01
Model Difference:	All the models have the same circuit diagram and PCB layout, except for model name.
Serial No.:	N/A
Test sample(s) ID:	LP26040288C01-S004
Sample(s) Status	Engineer sample
Hardware:	V1.0
Software:	V1.0
Operation frequency:	360KHz
Modulation Type:	MSK
Antenna Type:	Inductive Loop Antenna with 10 Turns
Antenna Gain :	N/A
Ratings:	15A 125V~60Hz 1875W MAX USB-C1 Output: 5V $\overline{\text{---}}$ 3A/ 9V $\overline{\text{---}}$ 3A/ 12V $\overline{\text{---}}$ 3A/ 15V $\overline{\text{---}}$ 3A/ 20V $\overline{\text{---}}$ 3.25A MAX Per Port USB-C2 Output: 5V $\overline{\text{---}}$ 3A MAX Per Port USB-A1 Output: 5V $\overline{\text{---}}$ 2.4A MAX Per Port USB-C1+C2 Output: 45W+15W MAX USB-C1+A1 Output: 45W+12W MAX USB-C2+A1 Output: 5V $\overline{\text{---}}$ 3A MAX USB-C1+(C2+A1) Output: 45W+15W MAX Wireless(Phone) Output: 5W/ 7.5W/ 10W/ 15W MAX USB-C1+Wireless(Phone) Output: 45W+15W MAX USB-C2/A1+Wireless(Phone)Output: 15W+15W MAX USB-C1+(C2+A1)+Wireless(Phone) Output: 30W+15W+15W MAX Total DC Output: 65W
Note: for more details, please refer to the User's manual of the EUT.	

1.3. DESCRIPTION OF TEST MODES

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

Mode:	TEST MODE DESCRIPTION
1	Wireless Output: 15W
2	Wireless Output: 10W
3	Wireless Output: 7.5W
4	Wireless Output: 5W

Note:

1. Product folding has been evaluated for use.
2. All test modes were pre - tested, but we only recorded the worst case in this report. The worst case is Mode 1

2. TEST STANDARDS AND SITES

2.1. DESCRIPTION OF STANDARDS AND RESULTS

The EUT have been tested according to the applicable standards as referenced below.

FCC Part Clause	Test Parameter	Verdict	Remark
FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	Conducted Emission	PASS	
FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	Radiated Emission	PASS	
FCC Part 15, Subpart C- Section 15.215 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	20dB Bandwidth	PASS	
15.203	Antenna Application	PASS	
NOTE1: N/A (Not Applicable)			

2.2. LIST OF TEST AND MEASUREMENT INSTRUMENTS

For conducted emission at the mains terminals test(Shielded Room 1)							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Lab No.	Remark
EMI Test Receiver	Rohde & Schwarz	ESHS30	8290501003	Dec. 10, 2025	1 Year	LEP-E002	☒
Artificial Mains Network	Baluelec	LSN016	BL041122050121	Oct. 21, 2025	1 Year	LEP-E067	☒
Shielded Room 1	MR	MR-L05	LEP-E053	Oct. 21, 2025	3 Year	LEP-E053	☒
Test software	EZ-EMC	Fala	LEPONT-03A2	N/A	N/A	N/A	☒
For radiated(9K-30M) emission test(966 Chamber 1)							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Lab No.	Remark
EMI Test Receiver	Rohde & Schwarz	ESR 3	101849	Dec. 10, 2025	1 Year	LEP-E006	☒
Active Loop Antenna	Schwarzbeck	FMZB 1519C	00008	Feb. 02, 2024	3 Year	LEP-E068	☒
966 Chamber 1	MR	MR-L02	LEP-E051	Oct. 21, 2025	3 Year	LEP-E051	☒
Test software	EZ-EMC	Fala	EMEC-3A1	N/A	N/A	N/A	☒
For radiated(30M-1G) emission test(966 Chamber 1)							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Lab No.	Remark
EMI Test Receiver	Rohde & Schwarz	ESR 3	101849	Dec. 10, 2025	1 Year	LEP-E006	☒
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	743	Oct. 26, 2025	3 Year	LEP-E005	☒
Signal Amplifier	HP	8447D	1726A01222	Dec. 03, 2025	1 Year	LEP-E007	☒
6dB Attenuator	RswTech	5W 6dB	LEP-E084	Dec. 03, 2025	1 Year	LEP-E084	☐
966 Chamber 1	MR	MR-L02	LEP-E051	Oct. 21, 2025	3 Year	LEP-E051	☒
Test software	EZ-EMC	Fala	EMEC-3A1	N/A	N/A	N/A	☒
For radiated(1-18G) emission test(966 Chamber 1)							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Lab No.	Remark
Spectrum analyzer	Agilent	N9020A	MY49100060	Nov. 26, 2025	1 Year	LEP-E020	☐
Horn antenna	Schwarzbeck	BBHA 9120D	01875	Oct. 26, 2025	3 Year	LEP-E024	☐
Preamplifier	Schwarzbeck	BBN 9718B	00010	Dec. 03, 2025	1 Year	LEP-E025	☐
966 Chamber 1	MR	MR-L02	LEP-E051	Oct. 21, 2025	3 Year	LEP-E051	☐
Test software	EZ-EMC	Fala	EMEC-3A1	N/A	N/A	N/A	☐
For radiated(18-40G) emission test(966 Chamber 1)							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Lab No.	Remark
Spectrum analyzer	Rohde & Schwarz	FSV40	101412	Nov. 26, 2025	1 Year	LEP-E076	☐
Horn antenna+Preamplifier	COM-POWER	AH840	10100020	Nov. 26, 2025	3 Year	LEP-E075	☐
966 Chamber 1	MR	MR-L02	LEP-E051	Oct. 21, 2025	3 Year	LEP-E051	☐
Test software	EZ-EMC	Fala	EMEC-3A1	N/A	N/A	N/A	☐
For RF test							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Lab No.	Remark
Spectrum analyzer	Rohde & Schwarz	FSV40	101412	Nov. 26, 2025	1 Year	LEP-E076	☐
Spectrum analyzer	Agilent	N9020A	MY49100060	Nov. 26, 2025	1 Year	LEP-E020	☒
Analog signal source	Agilent	N5171B	MY51350292	Dec. 03, 2025	1 Year	LEP-E021	☒
Vector source	Agilent	N5182A	MY47420382	Dec. 03, 2025	1 Year	LEP-E022	☒
All instrument	Rohde & Schwarz	CMW 500	1201.002K50	Dec. 03, 2025	1 Year	LEP-E019	☒
High and low temperature chamber	Math-mart	MT-1202-40	LEP-E041	Oct. 15, 2025	1 Year	LEP-E041	☐
control unit	Tonscend	JS0806-2	10165	Dec. 03, 2025	1 Year	LEP-E034	☒
Testing software	Tonscend	JSTS1120-3	Ver 2.6.77.0518	N/A	N/A	N/A	☒

2.3. MEASUREMENT UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Conducted Emissions Test	$\pm 3.08\text{dB}$
Radiated Emission Test	$\pm 4.60\text{dB}$
Occupied Bandwidth Test	$\pm 2.3\%$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 3.2\%$
Humidity	$\pm 2.5\%$
Measurement Uncertainty for a level of Confidence of 95%	

2.4. TEST FACILITY

EMC Lab. : The Laboratory has been assessed and proved to be in compliance with CNAS/CL01

The Certificate Registration Number is L10100.

The Laboratory has been assessed and proved to be in compliance with A2LA

The Certificate Registration Number is 6901.01

FCC Designation No.: CN1351

Test Firm Registration No.: 397428

ISED CAB identifier: CN0151

Test Firm Registration No.: 20133

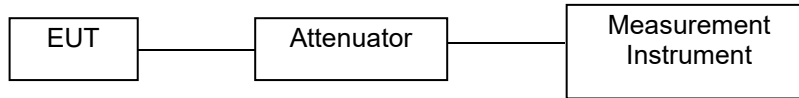
Test Location : Dongguan Lepont Testing Service Co., Ltd.

Address : Room 102, Building 11, No.7, Houjie Science And Technology Avenue, Houjie, Dongguan, Guangdong, China

3. SETUP OF EQUIPMENT UNDER TEST

3.1. RADIO FREQUENCY TEST SETUP 1

The component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



3.2. RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and CAN/CSA-CEI/IEC CISPR 32.

Below 30MHz:

The EUT is placed on a turntable 0.8meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the the specified distance from the EUT.

Above 30MHz:

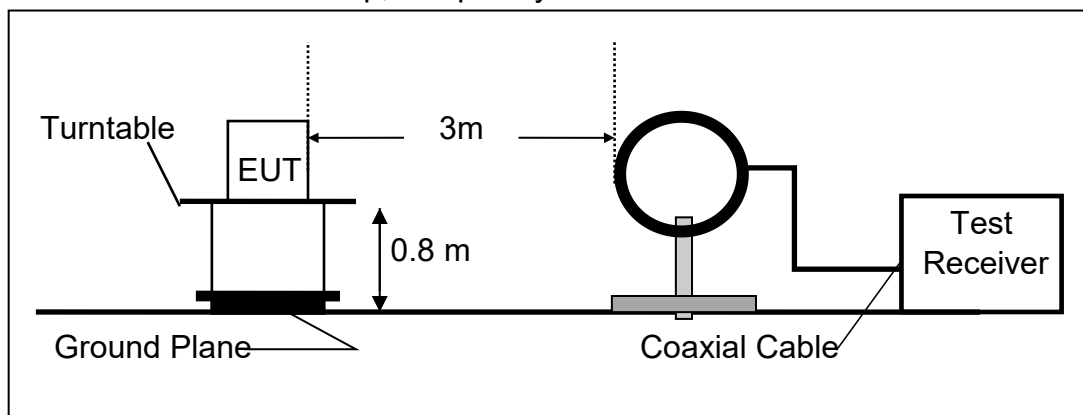
The EUT is placed on a turntable 0.8meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

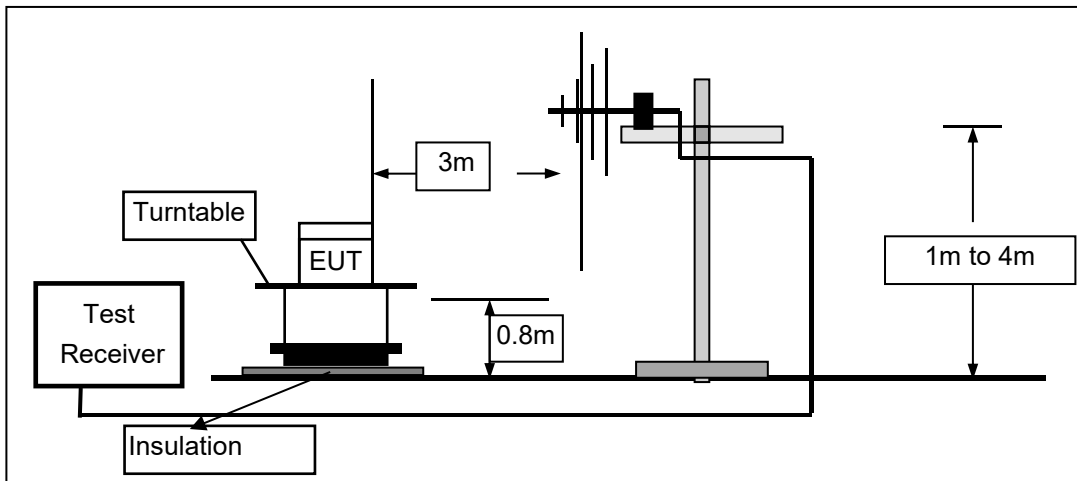
(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

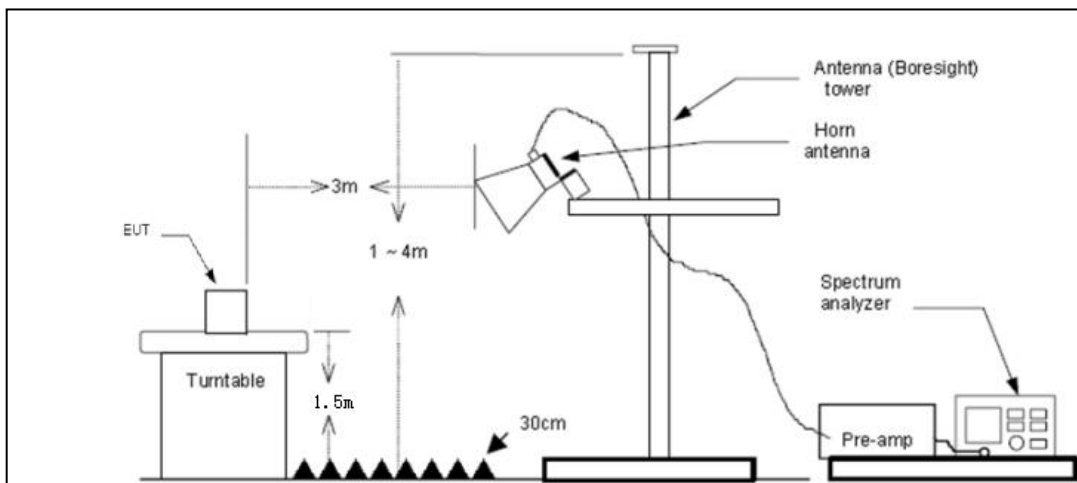
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

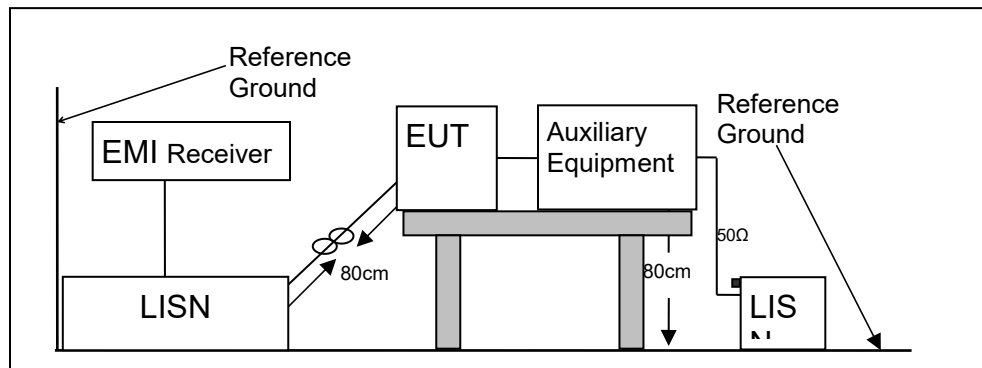


3.3. CONDUCTED EMISSION TEST SETUP

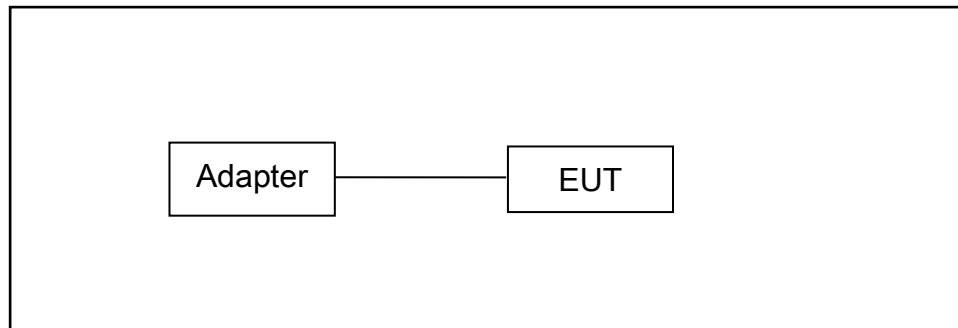
The mains cable of the EUT (Perfect Share Mini) must be connected to LISN. The LISN shall be placed 0.8m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.8m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



3.4. BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



3.5. SUPPORT EQUIPMENT

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB cable	0.4m	Unshielded	Without Ferrite

Auxiliary Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite

Auxiliary Equipment List and Details				
Description	Manufacturer	Model	Serial Number	Input/ Output
Intelligent wireless charging full function test module	YZB	/	/	15W MAX
Iphone 14 plus	iphone	MQ3D3C H/A	DG209WYGY6	/

Notes:

- 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. 20DB BANDWIDTH

4.1.1. Applicable Standard

According to FCC Part 15.215

4.1.2. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously

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.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation.

d) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement

e) Set detection mode to peak and trace mode to max hold.

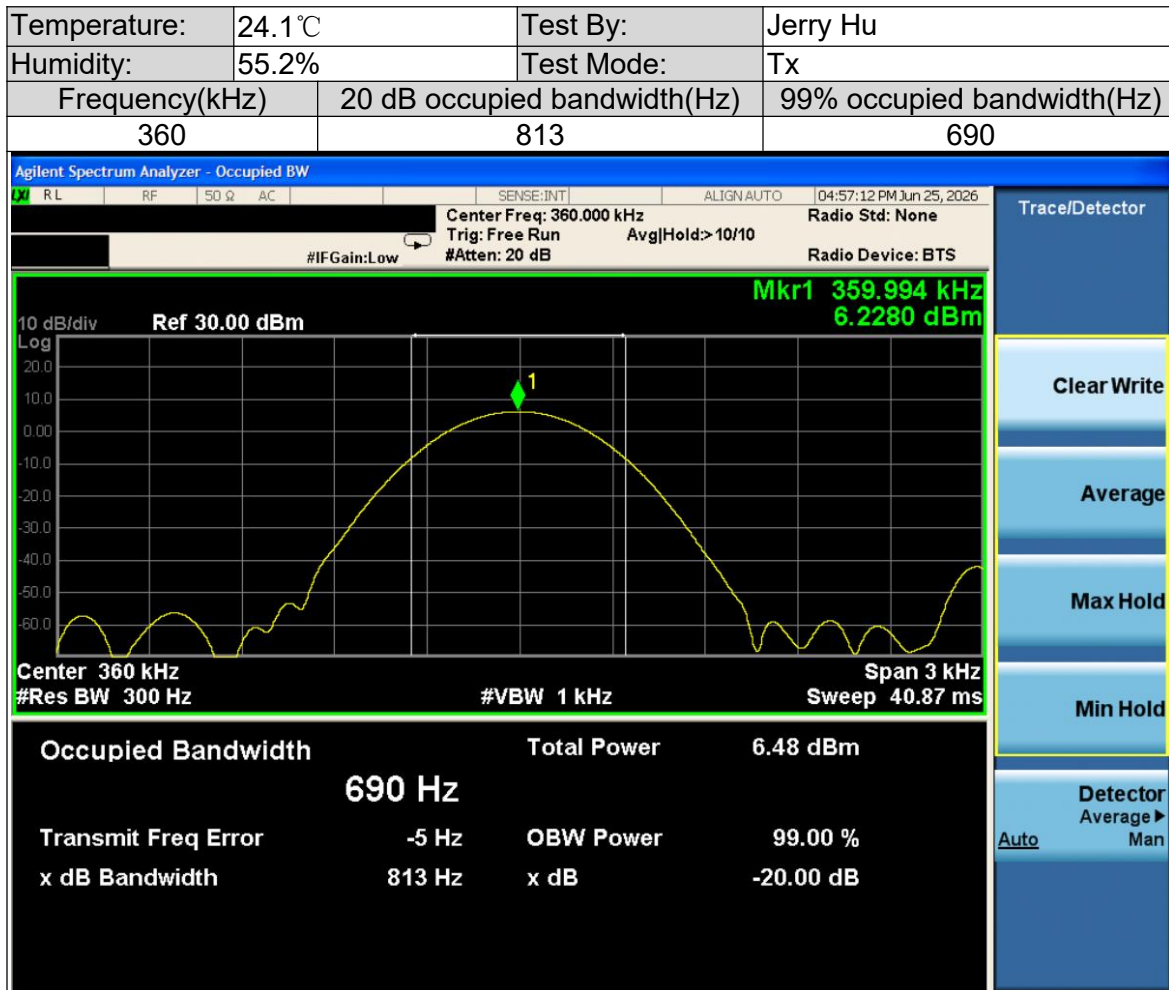
f) Determine the “-xx dB down amplitude” using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

Measure and record the results in the test report.

4.1.3. Test Results:

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 300 Hz to perform the occupied bandwidth test.

Frequency 360kHz 20dB Band



4.2. RADIATED SPURIOUS EMISSION

4.2.1. Applicable Standard

According to FCC Part 15.209

4.2.2. Conformance Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

15.205 RESTRICTED BANDS OF OPERATION

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

4.2.3. Test Configuration

Test according to clause 3.2 radio frequency test setup 2

4.2.4. Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:
 - Span = wide enough to fully capture the emission being measured
 - RBW=200Hz for 9KHz to 150KHz,
 - RBW=9kHz for 150KHz to 30MHz,
 - RBW=120KHz for 30MHz to 1GHz
 - VBW $\geq 3 \times$ RBW
 - Sweep = auto
 - Detector function = QP
 - Trace = max hold

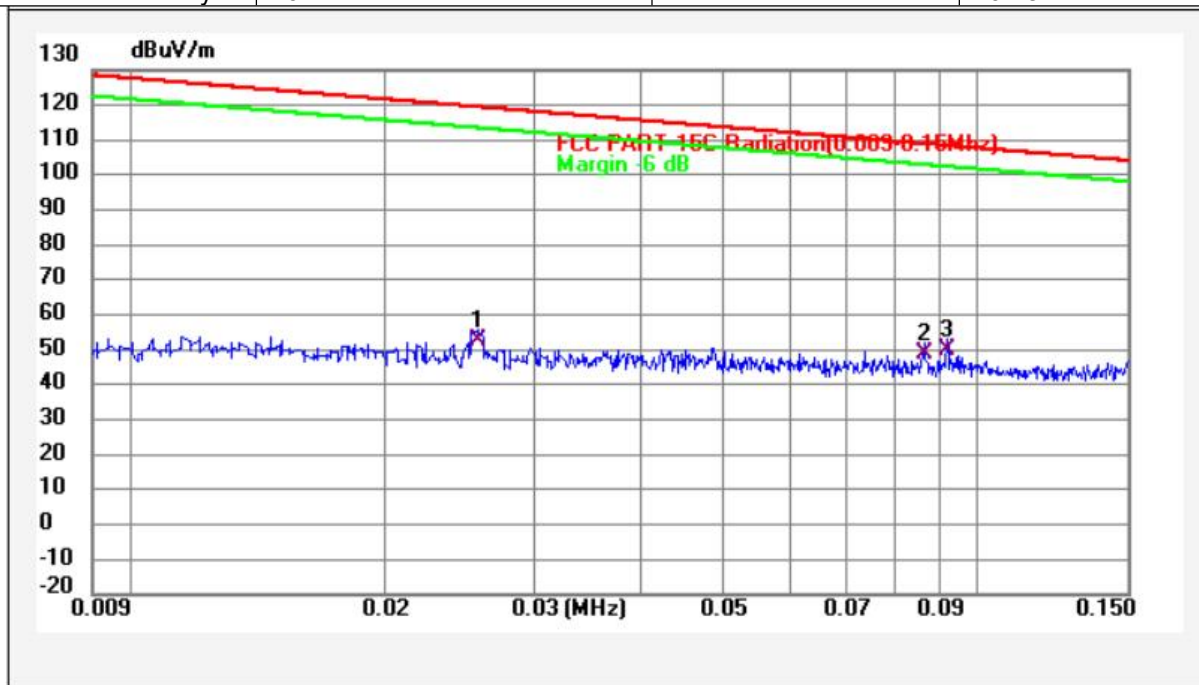
4.2.5. Test Results:

■ Spurious Emission below 30MHz (9KHz to 30MHz)

All modes were tested, and the worst (mode 1) test data was as follows:

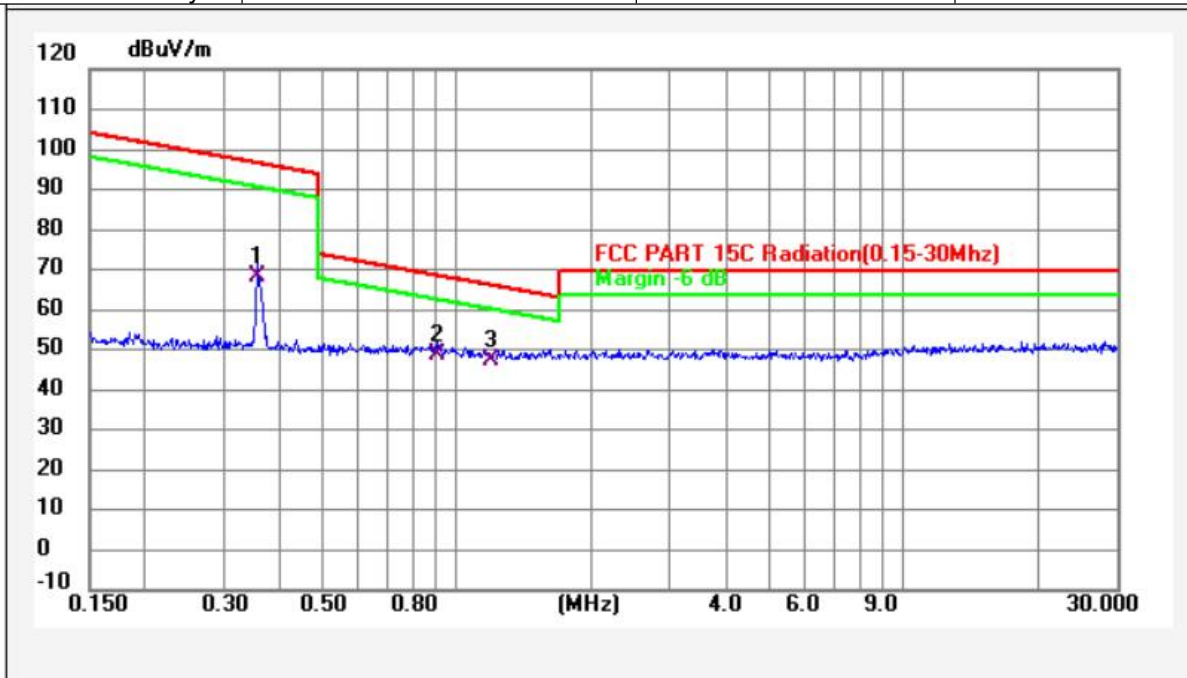
Frequency: 360KHz

Test Mode:	Mode 1	MSK	Test Voltage:	AC 125V/60Hz
Temperature:	23.9℃		Phase:	Vertical
Relative Humidity:	46%		Pressure:	101.8KPa



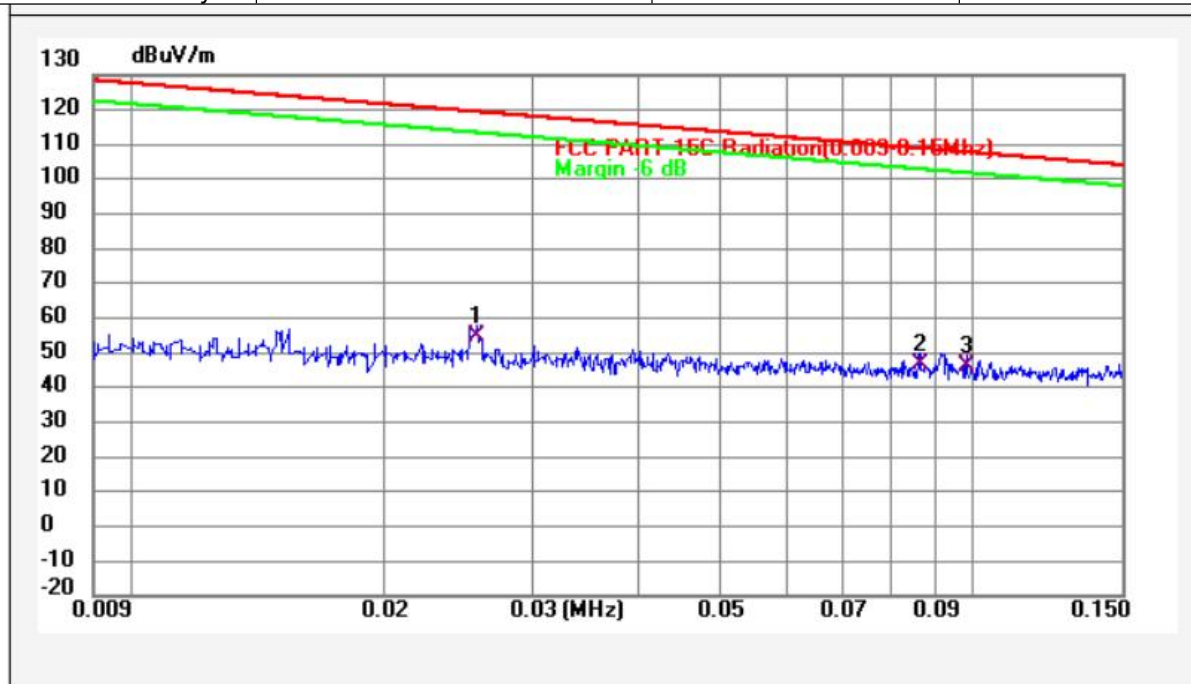
No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	0.0257	20.46	32.36	52.82	119.39	-66.57	QP		
2	0.0864	20.17	28.78	48.95	108.87	-59.92	QP		
3	0.0916	20.20	29.69	49.89	108.36	-58.47	QP	*	

Test Mode:	Mode 1	MSK	Test Voltage:	AC 125V/60Hz
Temperature:	23.9℃		Phase:	Vertical
Relative Humidity:	46%		Pressure:	101.8KPa



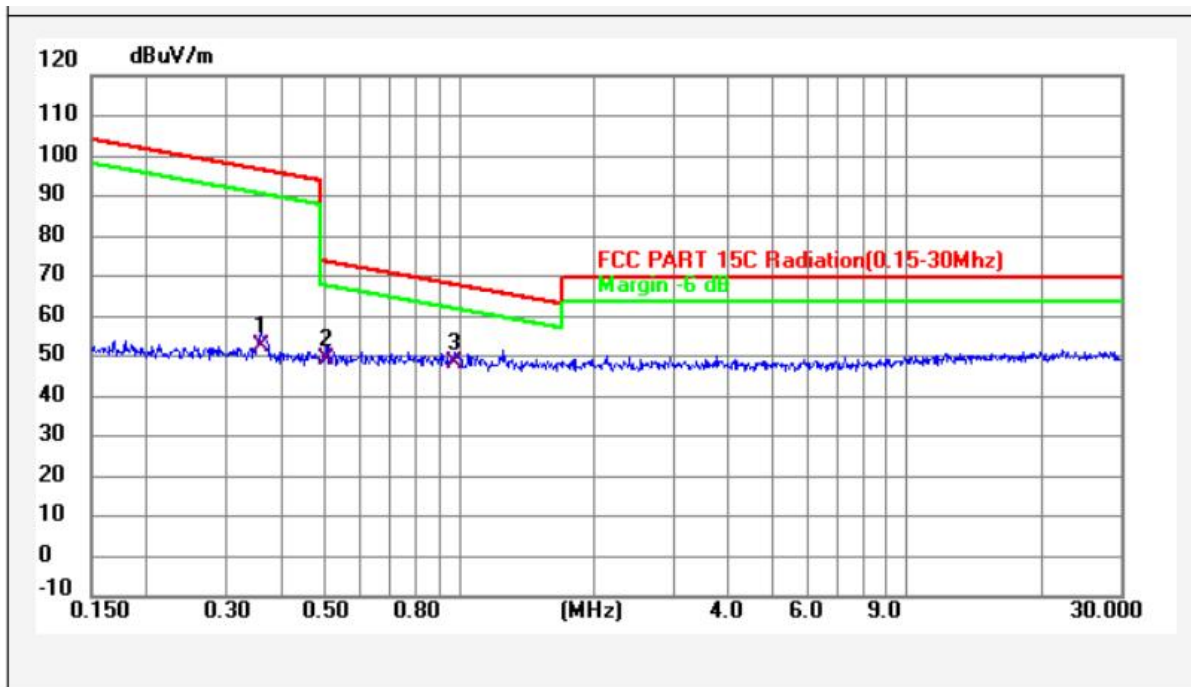
No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	0.3580	20.24	47.95	68.19	96.53	-28.34	QP		
2	0.9056	20.07	28.60	48.67	68.46	-19.79	QP		
3	1.1907	20.05	27.27	47.32	66.08	-18.76	QP	*	

Test Mode:	Mode 1	MSK	Test Voltage:	AC 125V/60Hz
Temperature:	23.9℃		Phase:	Horizontal
Relative Humidity:	46%		Pressure:	101.8KPa



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	0.0257	20.46	34.27	54.73	119.39	-64.66	QP		
2	0.0864	20.17	26.50	46.67	108.87	-62.20	QP		
3	0.0980	20.23	26.16	46.39	107.77	-61.38	QP	*	

Test Mode:	Mode 1	MSK	Test Voltage:	AC 125V/60Hz
Temperature:	23.9℃		Phase:	Horizontal
Relative Humidity:	46%		Pressure:	101.8KPa

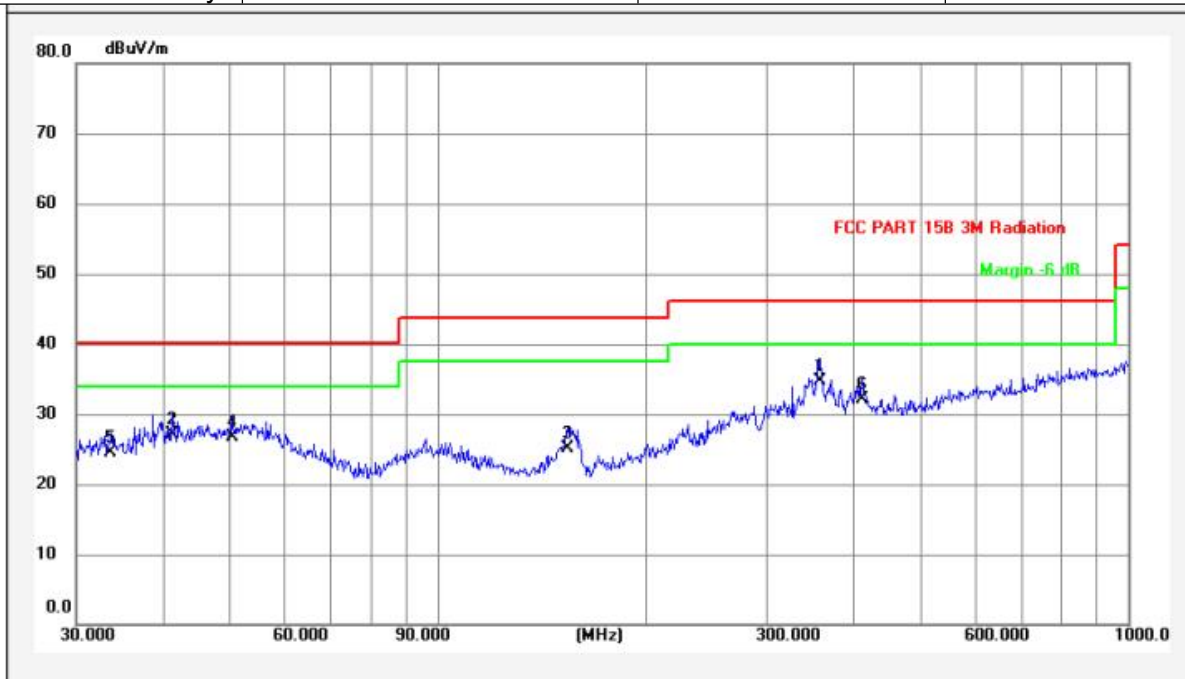


No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	0.3615	20.24	32.26	52.50	96.44	-43.94	QP		
2	0.5047	20.13	29.27	49.40	73.54	-24.14	QP		
3	0.9735	20.06	28.18	48.24	67.83	-19.59	QP	*	

■ Spurious Emission below 1GHz (30MHz to 1GHz)

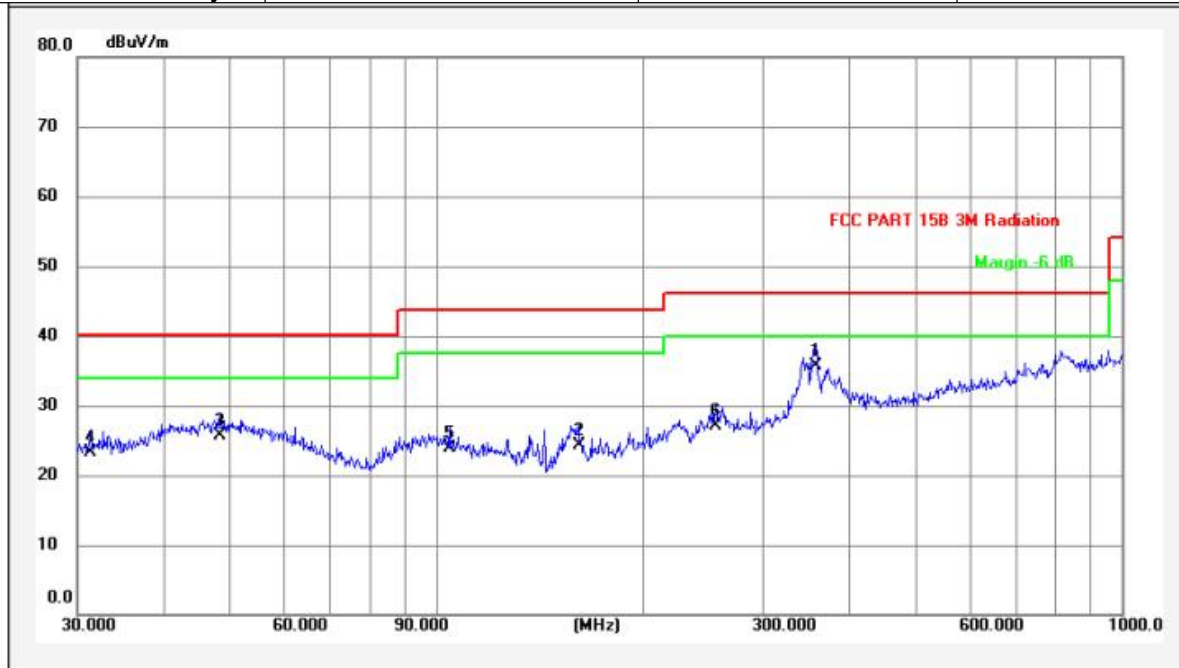
All modes were tested, and the worst (mode 1) test data was as follows:

Test Mode:	Mode 1	MSK	Test Voltage:	AC 125V/60Hz
Temperature:	21.1℃		Phase:	Vertical
Relative Humidity:	49%		Pressure:	101.3KPa



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	357.9287	15.42	19.28	34.70	46.00	-11.30	QP	*	
2	41.2765	13.40	13.69	27.09	40.00	-12.91	QP		
3	154.2785	8.56	16.53	25.09	43.50	-18.41	QP		
4	50.4089	14.01	12.65	26.66	40.00	-13.34	QP		
5	33.6802	11.49	12.99	24.48	40.00	-15.52	QP		
6	411.8240	16.11	16.00	32.11	46.00	-13.89	QP		

Test Mode:	Mode 1	MSK	Test Voltage:	AC 125V/60Hz
Temperature:	22.1℃		Phase:	Horizontal
Relative Humidity:	49%		Pressure:	101.3KPa



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	357.9287	15.42	20.19	35.61	46.00	-10.39	QP	*	
2	161.4742	8.75	15.57	24.32	43.50	-19.18	QP		
3	48.3318	14.08	11.69	25.77	40.00	-14.23	QP		
4	31.3992	11.35	11.96	23.31	40.00	-16.69	QP		
5	104.5360	11.48	12.37	23.85	43.50	-19.65	QP		
6	255.6231	12.97	14.05	27.02	46.00	-18.98	QP		

4.3. CONDUCTED EMISSION TEST

4.3.1. Applicable Standard

According to FCC Part 15.207

4.3.2. Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	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 0.50MHz.

Remark: Test results were obtained from the following equation:

Measurement (dB μ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB μ V)

Margin (dB) = Measurement (dB μ V) - Limit (dB μ V)

4.3.3. Test Configuration

Test according to clause 3.3 conducted emission test setup

4.3.4. Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

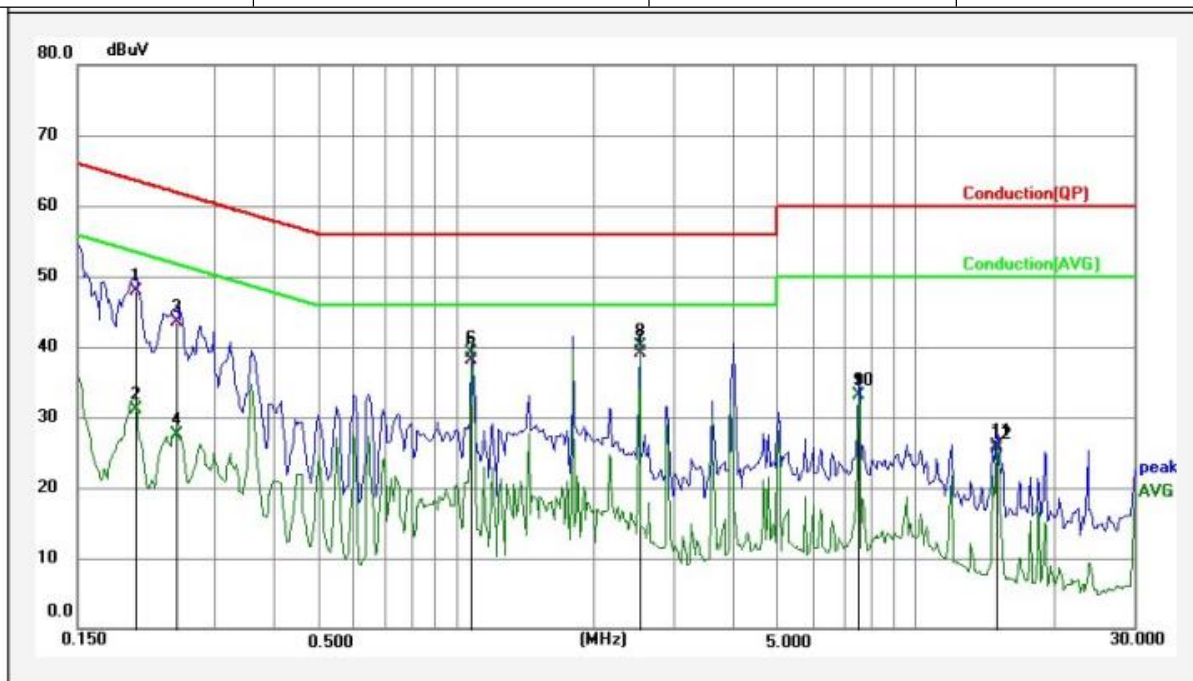
Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

4.3.5. Test Results :

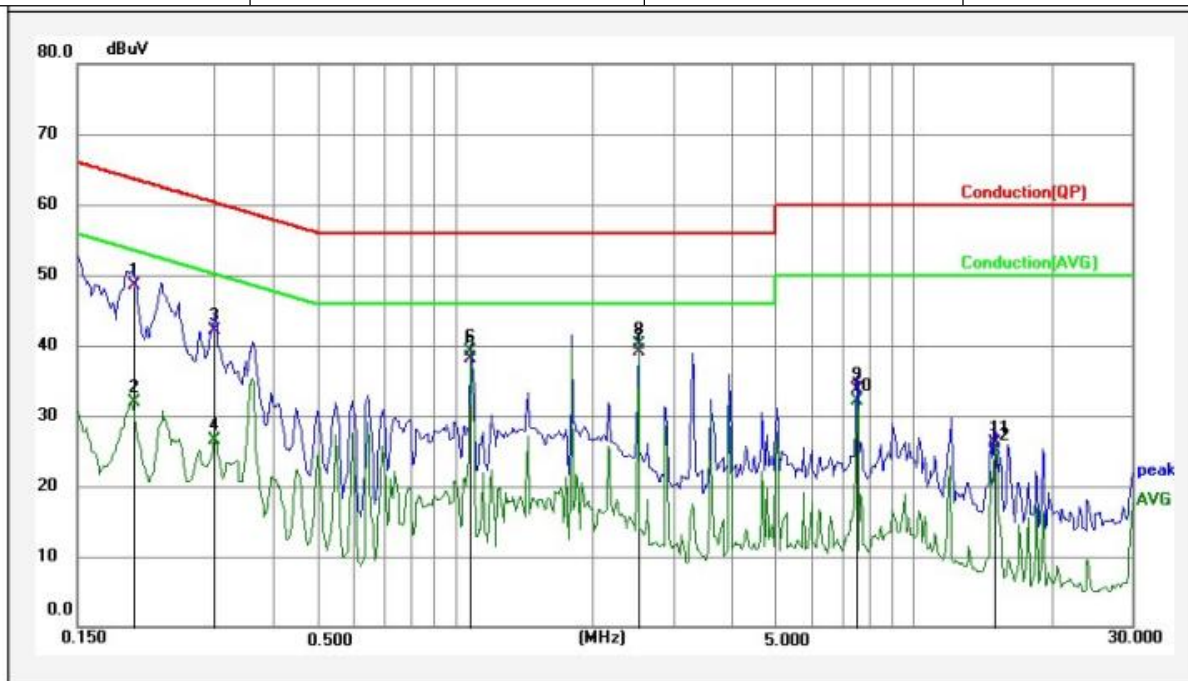
All modes were tested, and the worst (mode 3) test data was as follows:

Test Mode:	Mode 1	MSK	Test Voltage:	AC 125V/60Hz
Temperature:	24.4℃		Phase:	L1
Relative Humidity:	50%		Pressure:	101.3KPa



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	MK.	Remark
1	0.2013	10.69	37.22	47.91	63.56	-15.65	QP		
2	0.2013	10.69	20.46	31.15	53.56	-22.41	AVG		
3	0.2477	10.68	32.92	43.60	61.83	-18.23	QP		
4	0.2477	10.68	16.89	27.57	51.83	-24.26	AVG		
5	1.0821	10.84	27.36	38.20	56.00	-17.80	QP		
6	1.0821	10.84	28.35	39.19	46.00	-6.81	AVG		
7	2.5182	10.93	28.16	39.09	56.00	-16.91	QP		
8	2.5182	10.93	29.17	40.10	46.00	-5.90	AVG	*	
9	7.5602	11.24	21.84	33.08	60.00	-26.92	QP		
10	7.5602	11.24	21.78	33.02	50.00	-16.98	AVG		
11	15.1219	11.66	14.30	25.96	60.00	-34.04	QP		
12	15.1219	11.66	13.82	25.48	50.00	-24.52	AVG		

Test Mode:	Mode 1	MSK	Test Voltage:	AC 125V/60Hz
Temperature:	24.4℃		Phase:	N
Relative Humidity:	50%		Pressure:	101.3KPa



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	MK.	Remark
1	0.1998	10.59	37.92	48.51	63.62	-15.11	QP		
2	0.1998	10.59	21.37	31.96	53.62	-21.66	AVG		
3	0.3000	10.60	31.50	42.10	60.24	-18.14	QP		
4	0.3000	10.60	15.96	26.56	50.24	-23.68	AVG		
5	1.0821	10.79	27.34	38.13	56.00	-17.87	QP		
6	1.0821	10.79	28.35	39.14	46.00	-6.86	AVG		
7	2.5182	10.87	28.24	39.11	56.00	-16.89	QP		
8	2.5182	10.87	29.17	40.04	46.00	-5.96	AVG	*	
9	7.5602	11.25	22.44	33.69	60.00	-26.31	QP		
10	7.5602	11.25	20.80	32.05	50.00	-17.95	AVG		
11	15.1219	11.68	14.46	26.14	60.00	-33.86	QP		
12	15.1219	11.68	13.38	25.06	50.00	-24.94	AVG		

4.4. ANTENNA APPLICATION

4.4.1. Antenna Requirement

Standard	Requirement
FCC CRF 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. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.4.2. Result

PASS.

- ☒ Antenna use a permanently attached antenna which is not replaceable.
- ☐ Not using a standard antenna jack or electrical connector for antenna replacement
- ☐ The antenna has to be professionally installed (please provide method of installation)

Note: which in accordance to section 15.203, please refer to the internal photos.

----- **END OF REPORT** -----

Statement

1. The calibration and measurement of test equipments used in our laboratory are traceable to National primary standard of measurement and BIPM.
2. The report is invalid without the special test seal of the company.
3. The test report without the signature of the project personnel and authorir issuer is invalid.
4. The report is invalid if altered and added or deleted.
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6. This test report shall not be reproduced except in full, without the written approval of our laboratory.
7. Any objections must be raised to Dongguan Lepont Testing Service Co., Ltd. within 15 days since the date when report is received.

Test Laboratory: Dongguan Lepont Testing Service Co., Ltd.

Address: Room 102, Building 11, No.7, Houjie Science And Technology Avenue,
Houjie, Dongguan, Guangdong, China

Tel: 86-769-83086888

Fax: 86-769-83086888

E-mail: service@lepont.com.cn

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