

# FCC Test Report

**Applicant** : FUJIAN YANAN POWER CO.,LTD.

**Address** : No.6,Shugang Road,Zhangwan Industrial Park,  
: Dongqiao Economic Development Zone, Ningde  
City,Fujian Province, China

**Product Name** : PORTABLE POWER STATION

**Report Date** : Oct. 12, 2023

**Shenzhen Anbotech Compliance Laboratory Limited**



**Shenzhen Anbotech Compliance Laboratory Limited**

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotech.com



Hotline  
400-003-0500  
www.anbotech.com.cn



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Report No.: 18360WC30011701 FCC ID: 2BCSHYN2400MV1000

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# TEST REPORT

Applicant : FUJIAN YANAN POWER CO.,LTD.

Manufacturer : FUJIAN YANAN POWER CO.,LTD.

Product Name : PORTABLE POWER STATION

Test Model No. : YN-2400 Pro

Reference Model No. : YN-2400

Trade Mark : 

Rating(s) : Please refer to page 6

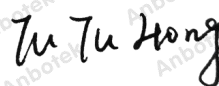
Test Standard(s) : 47 CFR Part 15.209

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Sept. 13, 2023

Date of Test: Sept. 13, 2023 to Sept. 22, 2023

Prepared By:



(TuTu Hong)

Approved &amp; Authorized Signer:



(Edward Pan)

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,  
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Tel: (86)0755-26066440 Fax: (86)0755-26014772 Email: service@anbotek.com



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400-003-0500  
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## Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 12, 2023

## Shenzhen Anbotek Compliance Laboratory Limited

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## 1. General Information

### 1.1. Client Information

Applicant	:	FUJIAN YANAN POWER CO.,LTD.
Address	:	No.6,Shugang Road,Zhangwan Industrial Park, Dongqiao Economic Development Zone, Ningde City,Fujian Province, China
Manufacturer	:	FUJIAN YANAN POWER CO.,LTD.
Address	:	No.6,Shugang Road,Zhangwan Industrial Park, Dongqiao Economic Development Zone, Ningde City,Fujian Province, China
Factory	:	FUJIAN YANAN POWER CO.,LTD.
Address	:	No.6,Shugang Road,Zhangwan Industrial Park, Dongqiao Economic Development Zone, Ningde City,Fujian Province, China

### 1.2. Description of Device (EUT)

Product Name	:	PORTABLE POWER STATION
Test Model No.	:	YN-2400 Pro
Reference Model No.	:	YN-2400 (All samples are the same except the model number and Series models have not parallel functions, so we prepare "YN-2400 Pro" for test only.)
Trade Mark	:	
Test Power Supply	:	AC 120V/60Hz /DC 51.52V Battery inside/ DC 12V
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A

#### RF Specification

Operation Frequency	:	110.1-205KHz
Number of Channel	:	1
Modulation Type	:	ASK
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi

#### Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) The rated voltage of the product is DC 12-75V, only DC 12V is selected for testing.



## Rating(s):

PORTABLE  
POWER STATION

- Type: YN-2400Pro
- Battery Capacity: 51.52V, 40Ah/2060.8Wh
- AC Input: 100V-130V~12.5A, 60Hz, 1500W
- PV Input: DC 12V-75V=25A, 800W Max
- AC Output ×4: Pure Sine Wave 120V~60Hz, 2400W
- AC Parallel Interface: 2400W
- After Being Connected AC Output: 4800W
- DC Output ×2 + Cigarette Lighter Socket Output: Total 12V=10A
- USB-A Output ×2: 5V=3A, 9V=2A, 12V=1.5A, 18W Max
- USB-C Output ×2: 5V/9V/12V/15V/20V=3A, 20W=5A, 100W Max
- Wireless Charge: 10W
- Operating Temp: 14 to 104°F (-10 to 40°C)
- Charging Temp: 32 to 104°F (0 to 40°C)
- Date Code:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC ID: 2BCSHYN2400MV1000



## ⚠ WARNING!

- Do not short-circuit the unit. To avoid short-circuiting, keep the unit away from all metal objects (e.g. coins, hair-pins, keys, etc.).
- Do not heat the unit, or dispose of it in fire, water or other liquids. Keep away from high temperatures.
- Do not expose the unit to direct sunlight. Keep away from high humidity, dusty places.
- Do not disassemble or reassemble this unit.
- Do not drop and place heavy objects on, or allow strong impact to this unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- The unit may become hot when charging. This is normal. Be careful when handling.
- Use the unit properly to avoid electronic shock.
- The product is only used for emergency power station, it can not replace the standard DC or AC power of household appliances or digital products.
- Do not overcharge the internal battery. See Instruction Manual.

## ⚠ AVERTISSEMENT!

- Ne court-circuitez pas l'appareil. Pour éviter tout court-circuit, éloignez l'appareil de tout objet métallique (par exemple, pièces de monnaie, épingles à cheveux, clés, etc.).
- Ne chauffez pas l'appareil et ne le jetez pas dans le feu, l'eau ou d'autres liquides. Tenir à l'écart des températures élevées. N'exposez pas l'appareil à la lumière directe du soleil.
- Tenir à l'écart des endroits humides et poussiéreux.
- Ne démontez pas et ne réassemblez pas cet appareil.
- Ne laissez pas tomber, ne placez pas d'objets lourds dessus et ne laissez pas de chocs violents sur cet appareil.
- Cet appareil n'est pas destiné à être utilisé par des personnes (y compris des enfants) ayant des capacités physiques, sensorielles ou mentales réduites, ou un manque d'expérience et de connaissances, à moins qu'elles n'aient reçu une supervision ou des instructions concernant.
- L'utilisation de l'appareil par une personne responsable de leur sécurité.
- Les enfants doivent être surveillés pour s'assurer qu'ils ne jouent pas avec l'appareil.
- L'appareil peut devenir chaud pendant la charge. C'est normal. Soyez prudent lors de la manipulation.
- Utilisez l'appareil correctement pour éviter les chocs électroniques. Le produit n'est utilisé que pour la centrale électrique de secours, il ne peut pas remplacer l'alimentation CC ou CA standard des appareils ménagers ou des produits numériques.
- Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation.

YN-2400Pro M

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### 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Wireless load	BAECOAR	15W Smart wireless charger fixture wireless charging	/

#### Shenzhen Anbotek Compliance Laboratory Limited

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#### 1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	AC charging+WPT(AC 120V/60Hz)
TM2	DC charging+WPT(DC 12V)
TM3	WPT Mode(DC 51.52V Battery inside)

#### 1.5. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	





## 1.6. Test Summary

Test Items	Test Modes	Status
Antenna requirement	/	P
Conducted Emission at AC power line	Mode1	P
Emissions in frequency bands (below 30MHz)	Mode1	P
Emissions in frequency bands (30MHz - 1GHz)	Mode1	P
Note: P: Pass N: N/A, not applicable		



## 1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### **FCC-Registration No.:184111**

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

### **ISED-Registration No.: 8058A**

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

### **Test Location**

Shenzhen Anbotech Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

## 1.8. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotech and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



**1.9. Test Equipment List****Conducted Emission at AC power line**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

**Emissions in frequency bands (below 30MHz)**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESPI7	101340	2023-02-22	2024-02-21
2	Pre-amplifier	Emtrace	RP01A	00517	2023-02-22	2024-02-21
3	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2022-10-23	2023-10-22
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/





## 2. 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.

### 2.1. Conclusion

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is **0 dBi**. It complies with the standard requirement.



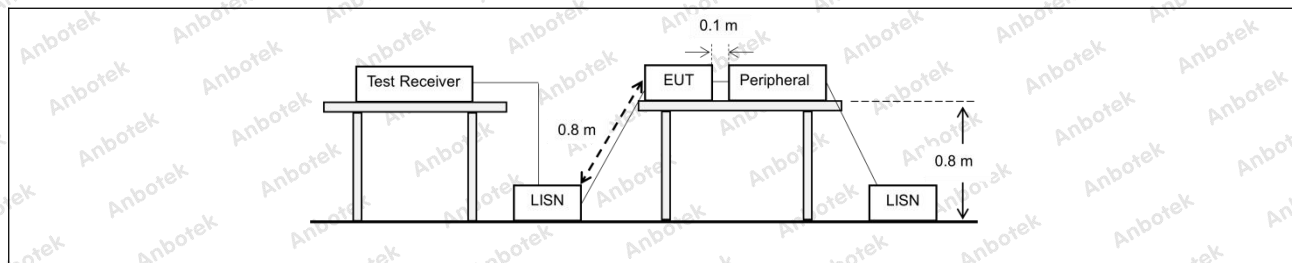
### 3. Conducted Emission at AC power line

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 $\mu$ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB $\mu$ 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		

#### 3.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: AC charging+WPT(AC 120V/60Hz) 2: TM2: DC charging+WPT(DC 12V) 3: TM3: WPT Mode(DC 51.52V Battery inside)

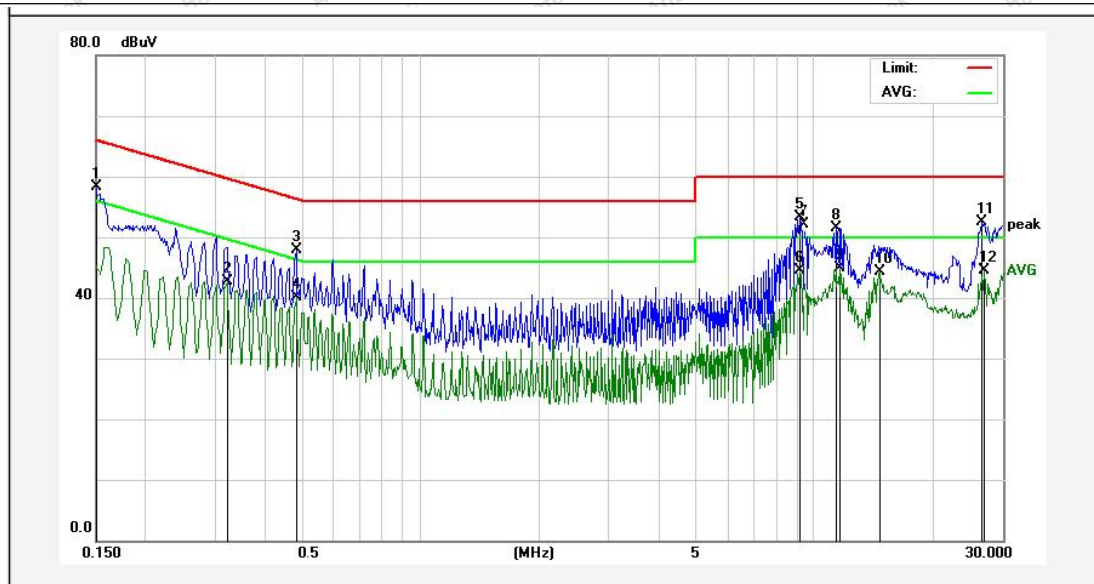
#### 3.2. Test Setup



## 3.3. Test Data

Temperature:	22.6 °C	Humidity:	52.3 %	Atmospheric Pressure:	102 kPa
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TM1 / Line: Line



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	41.70	16.63	58.33	66.00	-7.67	QP	
2	0.3220	25.68	17.02	42.70	49.65	-6.95	AVG	
3	0.4818	30.55	17.38	47.93	56.31	-8.38	QP	
4	0.4818	22.82	17.38	40.20	46.31	-6.11	AVG	
5	9.1219	35.88	17.48	53.36	60.00	-6.64	QP	
6	9.1219	26.96	17.48	44.44	50.00	-5.56	AVG	
7	9.3579	34.54	17.50	52.04	60.00	-7.96	QP	
8	11.3419	33.88	17.60	51.48	60.00	-8.52	QP	
9	11.5777	27.37	17.62	44.99	50.00	-5.01	AVG	
10	14.6379	26.55	17.76	44.31	50.00	-5.69	AVG	
11	26.5218	34.39	18.02	52.41	60.00	-7.59	QP	
12	26.8780	26.56	18.04	44.60	50.00	-5.40	AVG	



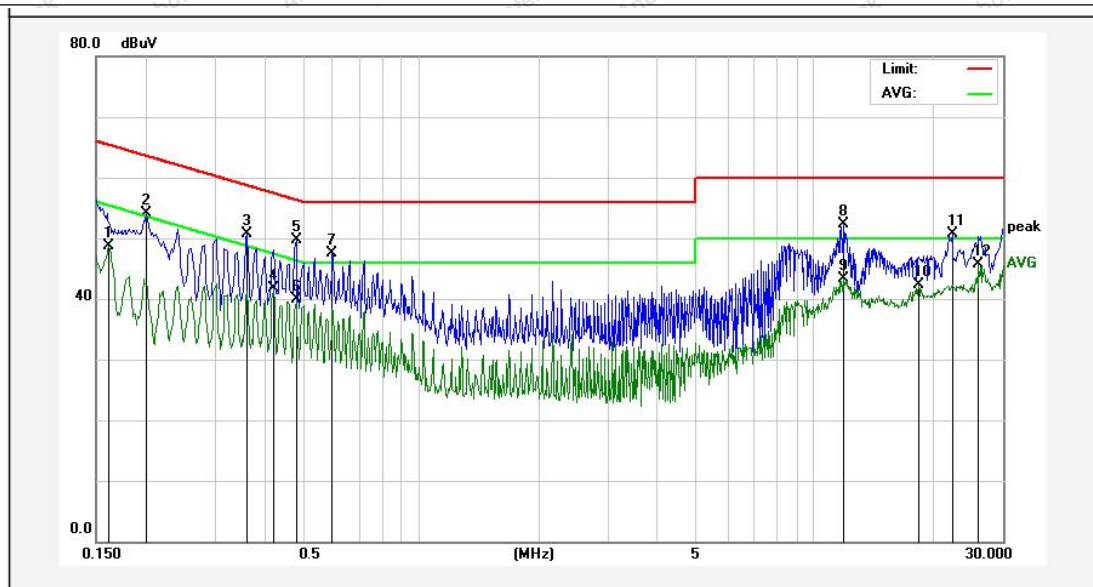


Temperature: 22.6 °C

Humidity: 52.3 %

Atmospheric Pressure: 102 kPa

TM1 / Line: Neutral



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	32.10	16.67	48.77	55.36	-6.59	AVG	
2	0.2006	37.30	16.76	54.06	63.58	-9.52	QP	
3	0.3618	33.58	17.08	50.66	58.69	-8.03	QP	
4	0.4218	24.47	17.20	41.67	47.41	-5.74	AVG	
5	0.4818	32.40	17.38	49.78	56.31	-6.53	QP	
6	0.4818	22.55	17.38	39.93	46.31	-6.38	AVG	
7	0.5977	30.04	17.46	47.50	56.00	-8.50	QP	
8	11.8215	34.59	17.63	52.22	60.00	-7.78	QP	
9	11.8215	25.63	17.63	43.26	50.00	-6.74	AVG	
10	18.3579	24.47	17.87	42.34	50.00	-7.66	AVG	
11	22.3180	32.70	17.93	50.63	60.00	-9.37	QP	
12	26.0380	27.62	17.99	45.61	50.00	-4.39	AVG	

Note: Only record the worst data in the report.



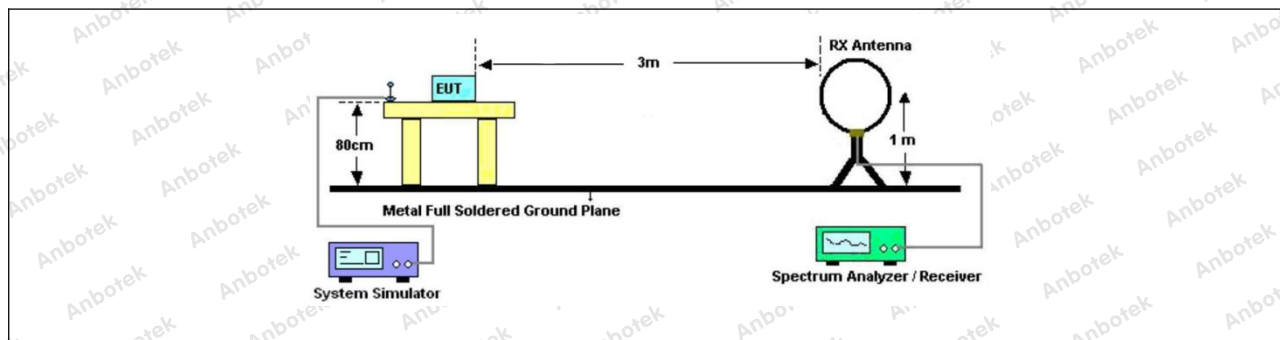
#### 4. Emissions in frequency bands (below 30MHz)

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
<p>** 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.</p> <p>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.</p>			
Test Method:	ANSI C63.10-2020 section 6.4		
Procedure:	ANSI C63.10-2020 section 6.4		

#### 4.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: AC charging+WPT(AC 120V/60Hz) 2: TM2: DC charging+WPT(DC 12V) 3: TM3: WPT Mode(DC 51.52V Battery inside)

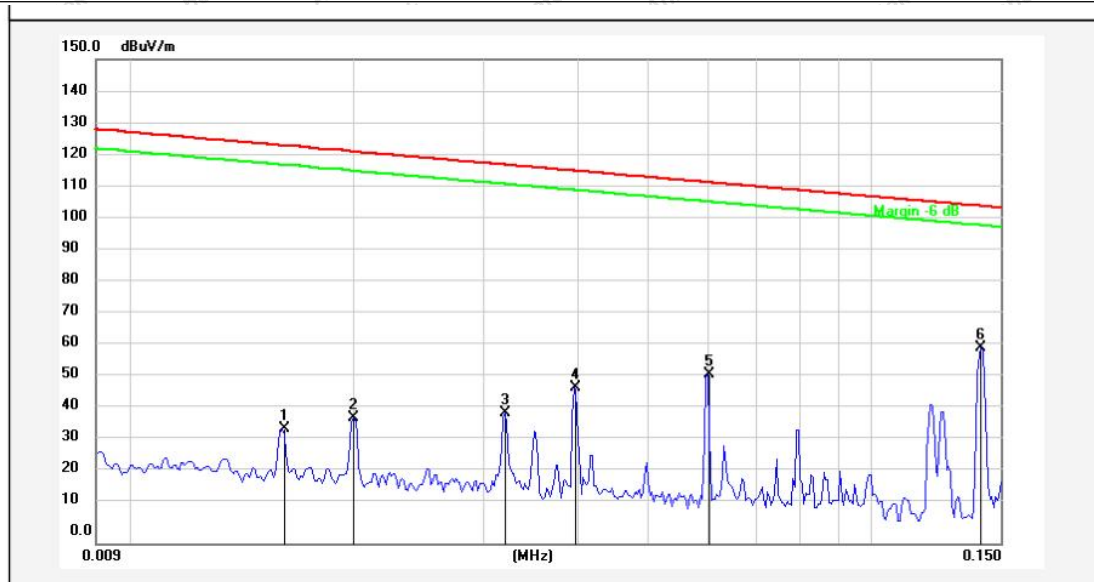
#### 4.2. Test Setup



## 4.3. Test Data

Temperature:	22.5 °C	Humidity:	51.8 %	Atmospheric Pressure:	102 kPa
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TM1 / Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0161	15.18	20.28	35.46	123.29	-87.83	QP			
2	0.0200	18.59	20.29	38.88	121.41	-82.53	QP			
3	0.0321	19.58	20.56	40.14	117.33	-77.19	QP			
4	0.0398	27.83	20.43	48.26	115.47	-67.21	QP			
5	0.0603	31.77	20.37	52.14	111.89	-59.75	QP			
6	0.1409	40.06	20.33	60.39	104.56	-44.17	QP			

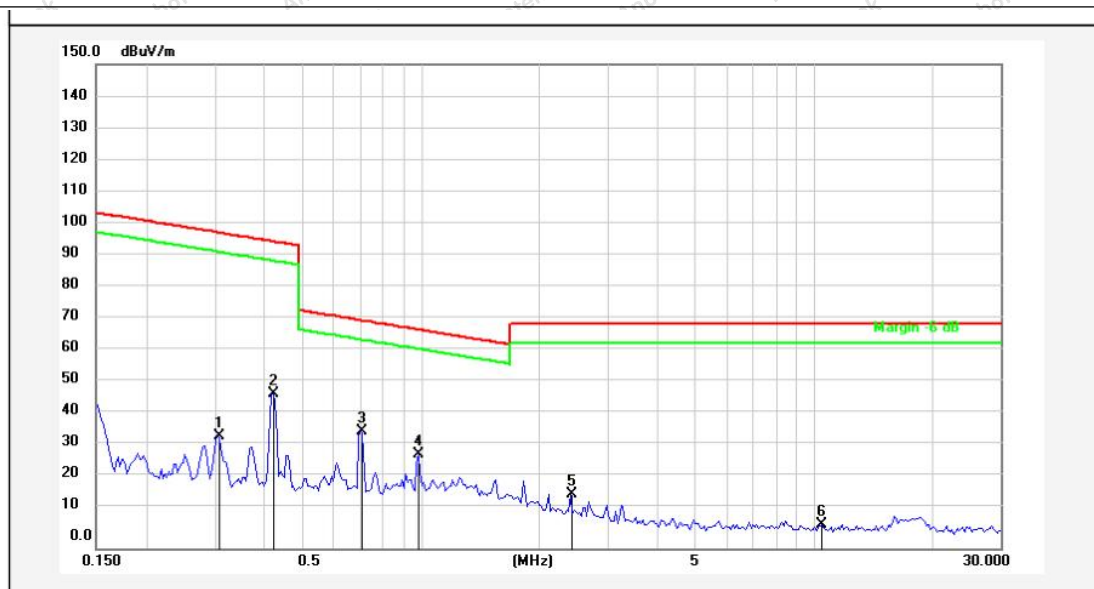




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Temperature:	22.5 °C	Humidity:	51.8 %	Atmospheric Pressure:	102 kPa
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TM1 / Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.3051	14.46	20.30	34.76	97.89	-63.13	QP			
2	0.4237	27.53	20.27	47.80	95.05	-47.25	QP			
3	0.7047	16.09	20.25	36.34	70.65	-34.31	QP			
4	0.9891	8.91	20.25	29.16	67.72	-38.56	QP			
5	2.4090	-3.69	20.29	16.60	69.50	-52.90	QP			
6	10.5079	-13.30	20.52	7.22	69.50	-62.28	QP			

Note: Only record the worst data in the report.



**5. 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.			
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		

**5.1. EUT Operation**

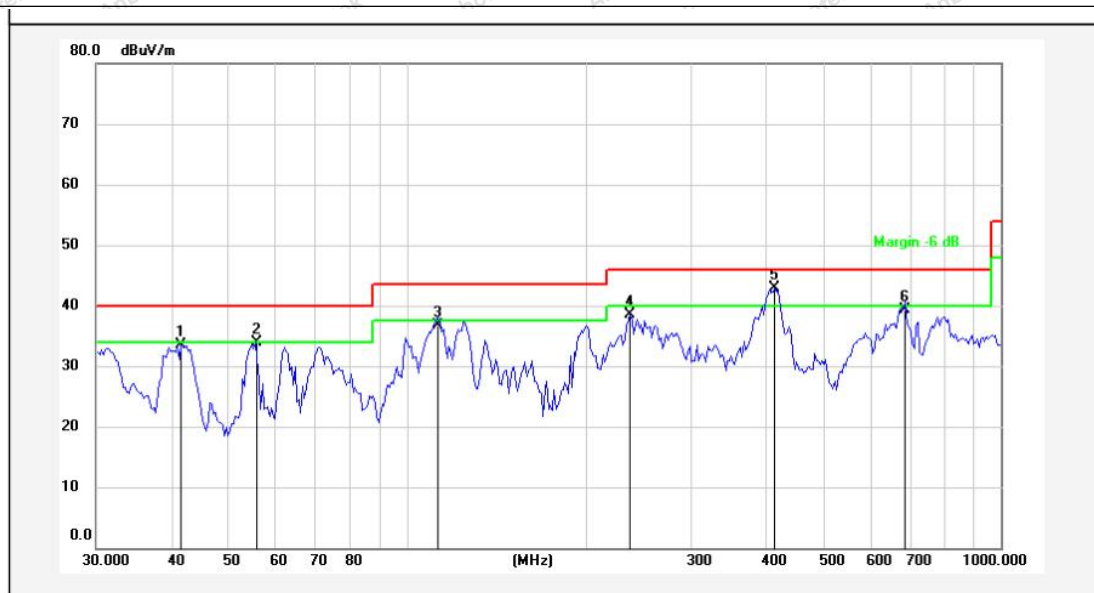
Operating Environment:	
Test mode:	1: TM1: AC charging+WPT(AC 120V/60Hz) 2: TM2: DC charging+WPT(DC 12V) 3: TM3: WPT Mode(DC 51.52V Battery inside)

**5.2. Test Setup****5.3. Test Data**

Temperature:	23.3 °C	Humidity:	54.6 %	Atmospheric Pressure:	102 kPa
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## TM1 / Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	41.7129	50.46	-16.91	33.55	40.00	-6.45	QP			
2	55.6094	51.37	-17.47	33.90	40.00	-6.10	QP			
3	112.9196	55.37	-18.63	36.74	43.50	-6.76	QP			
4	237.4759	55.04	-16.59	38.45	46.00	-7.55	QP			
5	416.1791	55.01	-12.12	42.89	46.00	-3.11	QP			
6	689.5643	46.74	-7.49	39.25	46.00	-6.75	QP			

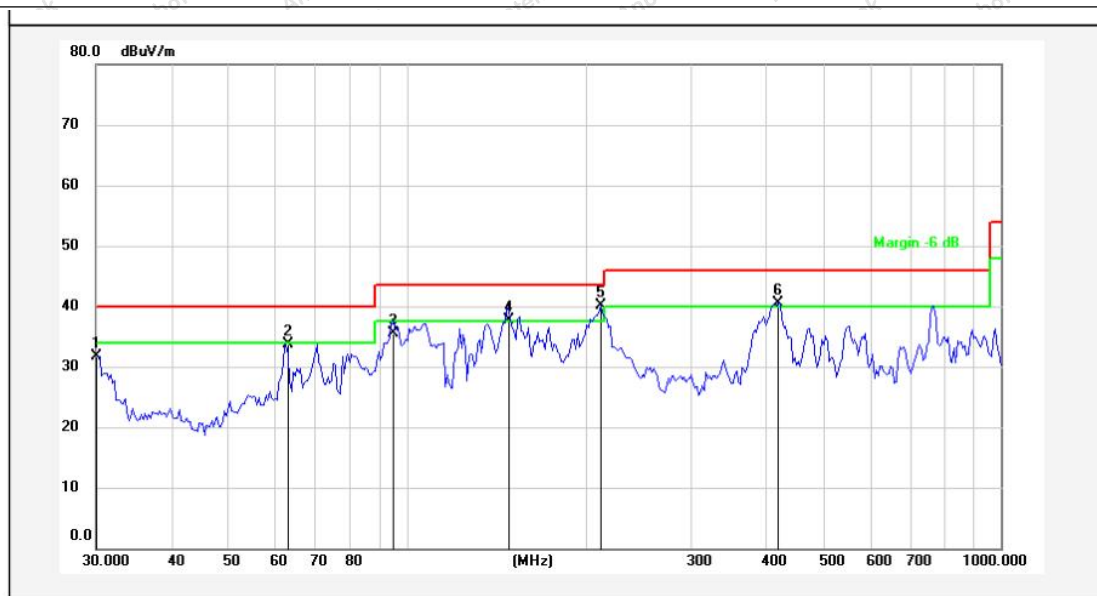




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Temperature:	23.3 °C	Humidity:	54.6 %	Atmospheric Pressure:	102 kPa
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TM1 / Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.2109	49.74	-18.04	31.70	40.00	-8.30	QP			
2	62.6507	52.42	-18.75	33.67	40.00	-6.33	QP			
3	94.7600	53.08	-17.67	35.41	43.50	-8.09	QP			
4	148.4410	58.77	-21.15	37.62	43.50	-5.88	QP			
5	212.2695	57.84	-17.66	40.18	43.50	-3.32	QP			
6	422.0577	52.55	-12.01	40.54	46.00	-5.46	QP			

Note: Only record the worst data in the report.



**APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

**APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

**APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

