

# Technical Compliance Statement

## FCC Test Report

**For the following information**

Ref. File No.: C1D2506038

Product : Portable Energy Storage Power  
Model Number : ES-S1000-US  
Applicant : MEAN WELL Enterprises Co., Ltd.  
Manufacturer : MEAN WELL Enterprises Co., Ltd.  
Rules and Standards : 47 CFR FCC Part 15 Subpart B (Class A Limit)

We hereby certify that the above product has been tested by us and complied with the FCC official limits. The product might be marketed in US in accordance with the standard 47 CFR FCC Part 2 and Part 15 Subpart B class A equipment regulations under FCC Rules. The test was performed according to the procedures mentioned in ANSI C63.4-2014.

The test data and results are issued on the test report No. **ACI-F25074**.

Signature



KAMP CHEN / Manager

Date: 2025.07.17

Test Laboratory:

Audix Technology (Shanghai) Co., Ltd.

NVLAP Lab Code : 200371-0

FCC Designation Number : CN5027

Test Firm Registration Number : 954668

Web Site: [www.audixtech.com](http://www.audixtech.com)

The statement is based on a single evaluation of samples of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

## TEST REPORT

On behalf of  
MEAN WELL Enterprises Co., Ltd.

Portable Energy Storage Power

Model No.: ES-S1000-US

Prepared For : MEAN WELL Enterprises Co., Ltd.  
No.28, Wuquan 3rd Rd., Wugu District, New Taipei City  
24891, Taiwan

Prepared By : Audix Technology (Shanghai) Co., Ltd.  
3F and 4F, 34Bldg 680 Guiping Rd,  
Caohejing Hi-Tech Park,  
Shanghai, China 200233

Tel: +86-21-64955500



File No. : C1D2506038  
Report No. : ACI-F25074  
Date of Test : 2025.06.30-07.17  
Date of Report : 2025.07.17

The statement is based on a single evaluation of samples of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.  
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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# 1 SUMMARY OF STANDARDS AND RESULTS

## 1.1 Description of Standards and Results

The result is determined according to the decision rules of customer selection in the ASC-403 application service form.

1. According to IEC GUIDE 115 Procedure 2 and ILAC-G8, the uncertainties value is not used in determining the PASS/FAIL results.

2. If the required specification or standard already contains the decision rules, it will be carried out in accordance with the regulations or standard documents or the requirements of the competent units. If the required specification or standard does not contain a decision rule, the same paragraph 1.

3. If your company has a required decision rule, it will be implemented in accordance with the requirements and ISO/IEC Guide 98-4 specifications.

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

Test Item	Referred Rules/Standard	Limit	Results
<b>EMISSION</b>			
Powerline Conducted Emission	47 CFR FCC Part 15 Subpart B AND ANSI C63.4-2014	15.107(b) Class A	<b>Pass</b>
			Margin 5.85dB at 3.153MHz
Radiated Emission (30-1000MHz)	47 CFR FCC Part 15 Subpart B AND ANSI C63.4-2014	15.107(b) Class A	<b>Pass</b>
			Margin 3.36dB at 56.200MHz (Vertical, 1.80m/55°) <sup>Note</sup>
Radiated Emission (Above 1GHz)	47 CFR FCC Part 15 Subpart B AND ANSI C63.4-2014	15.107(b) Class A	<b>Pass</b>
			Margin 29.34dB at 8730.750MHz
Note-0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.			

## 2 GENERAL INFORMATION

### 2.1 Description of Device (EUT)

Description : Portable Energy Storage Power

Type of EUT :  Production  Pre-product  Pro-type

Model Number : ES-S1000-US

Date of receipt : 2025.06.25

High work Frequency : 2.4GHz

Applicant : MEAN WELL Enterprises Co., Ltd.  
No.28, Wuquan 3rd Rd., Wugu District, New Taipei City  
24891, Taiwan

Manufacturer : same as Applicant

Factory : Hunan Planck Esstechnology Co., Ltd.  
Building 12, West Industrial Park, South of intersection  
of Maanshan Tunnel and Zhangshe Avenue, Xiangxi High-tech  
Zone, Hunan,China

## 2.2 Description of Test Facility

Site #1:	
Name of Firm	:Audix Technology (Shanghai) Co., Ltd.
Site Location	:3F 34 Bldg 680 Guiping Rd, Caohejing Hi-Tech Park, Shanghai 200233, China
Test Facilities	:No. 3 3m Chamber No. 1 Shielded Room
Accredited by NVLAP, Lab Code	:200371-0
FCC Designation Number	: CN5027
Test Firm Registration Number	: 954668
Site #2:	
Name of Firm	: Audix Technology (Wujiang) Co., Ltd. EMC Dept.
Site Location	:No1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone Jiangsu China 215200
Test Facilities	:10m Semi-Anechoic Chamber
Accredited by NVLAP, Lab Code	:200786-0
FCC Designation Number	: CN5026

**Note: The radiated disturbance test (below 1GHz) was tested in Site #2, and the other tests were tested in Site #1.**

### 3 POWERLINE CONDUCTED EMISSION MEASUREMENT

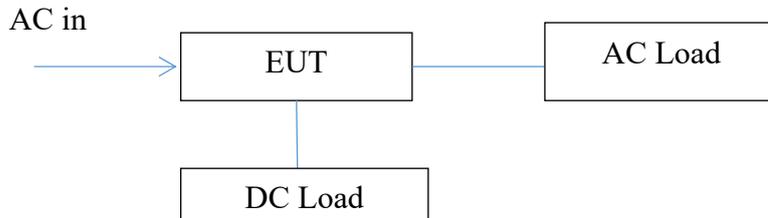
#### 3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

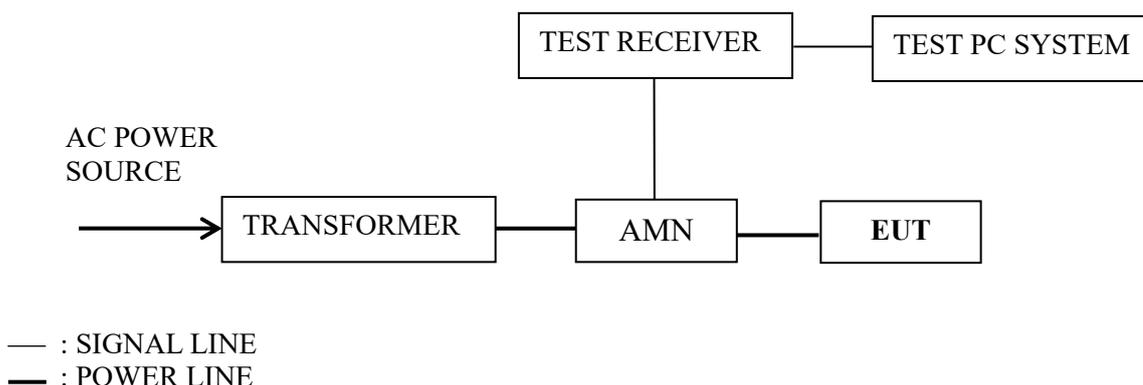
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	AMN	R&S	ESH2-Z5	843890/011	2025/2/22	1 Year
2.	LISN	Kyoritsu	KNW-407	8-1280-5	2025/3/31	1 Year
3.	Fixed Attenuator	SHYL	TTS-1	001	2025/2/22	1 Year
4.	Impedance	/	BNC/50Ohm	002	2025/2/22	1 Year
5.	Test Receiver	R&S	ESCI	101302	2025/2/22	1 Year
6.	CE Cable+Coaxial Switch (0.09-300MHz)	Audix+ANRI TSU	CE Cable+MP59B	CE-SH1-001+6200655085	2025/2/22	1 Year
7.	Software	Audix	e3	e3.v9.210616	-----	-----

#### 3.2 Block Diagram of Test Setup

##### 3.2.1 EUT &Peripherals



### 3.2.2 Conducted Disturbance Test Setup



### 3.3 Powerline Conducted Emission Limit

Frequency Range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

NOTE 1 - RF Line Voltage dB (μV) = 20 lg RF Line Voltage (μV)  
 NOTE 2 - The lower limit shall apply at the transition frequency.

### 3.4 Test Configuration

The EUT (listed in Sec.2.1) was installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

### 3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT as shown in Sec. 3.2.
- 3.5.2 Turn on the power of the EUT.
- 3.5.3 Set the EUT on the lighting test mode, and then test.

### 3.6 Test Procedures

The EUT was placed upon a non-metallic table, which is 0.8 m above the horizontal conducting ground plane and 0.4 m from a vertical reference plane. The EUT was connected to the power mains through an Artificial Mains Network (AMN) to provide a 50 Ω coupling impedance for the measuring equipment. Both sides of AC line (Line & Neutral) were checked to find out the maximum conducted emission according to FCC Part 15 (CLASS A) regulations during conducted disturbance test.

The I.F. bandwidth of Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test mode was done on conducted disturbance test and all the test results are listed in Sec. 3.7.

### 3.7 Test Results

< **PASS** >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

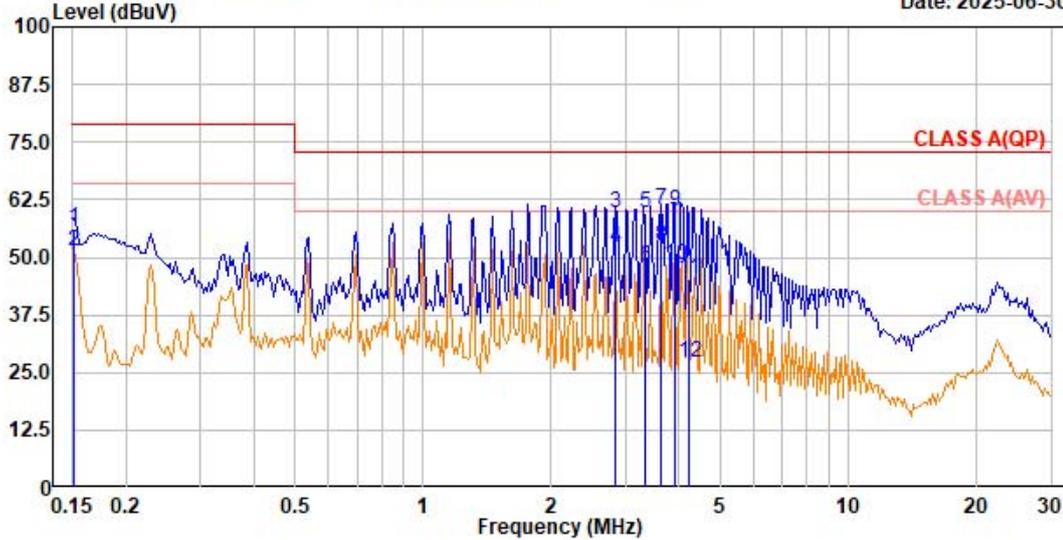
NOTE – “QP” means “Quasi-Peak” values.



Audix Technology (Shanghai) Co., Ltd.  
 3F #34Bldg. No.680 GuiPing Rd.,CaoHeJing  
 Hi-Tech Park,Shanghai 200233, China  
 Tel:+86-21-64955500  
 audixaci@audix.com

File: D:\Test data-2025\X\XIEWEI-04\XIEWEI-04\_00033.EMI

Date: 2025-06-30



Site no. : Audix (Shanghai) shielded 1                      Data no. : 33  
 AMN : ESH2-Z5-ADAPTER-2025                                  Phase : Line  
 Limit : CLASS A(QP)  
 Env. / Ins. : 20°C 40%RH / ESCI                                  Engineer : Neil  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 120V/60Hz  
 Test Mode : Charger & Full Load

	Freq (MHz)	AMN. Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.151	0.10	0.11	9.50	46.52	56.23	79.00	22.77	QP
2	0.151	0.10	0.11	9.50	41.47	51.18	66.00	14.82	Average
3	2.844	0.30	0.14	9.50	49.75	59.69	73.00	13.31	QP
4	2.844	0.30	0.14	9.50	42.21	52.15	60.00	7.85	Average
5	3.315	0.30	0.15	9.50	49.62	59.57	73.00	13.43	QP
6	3.315	0.30	0.15	9.50	37.88	47.83	60.00	12.17	Average
7	3.611	0.30	0.15	9.50	50.49	60.44	73.00	12.56	QP
8	3.611	0.30	0.15	9.50	42.50	52.45	60.00	7.55	Average
9	3.909	0.30	0.16	9.50	50.21	60.17	73.00	12.83	QP
10	3.909	0.30	0.16	9.50	38.53	48.49	60.00	11.51	Average
11	4.203	0.32	0.17	9.50	35.13	45.12	73.00	27.88	QP
12	4.203	0.32	0.17	9.50	17.00	26.99	60.00	33.01	Average

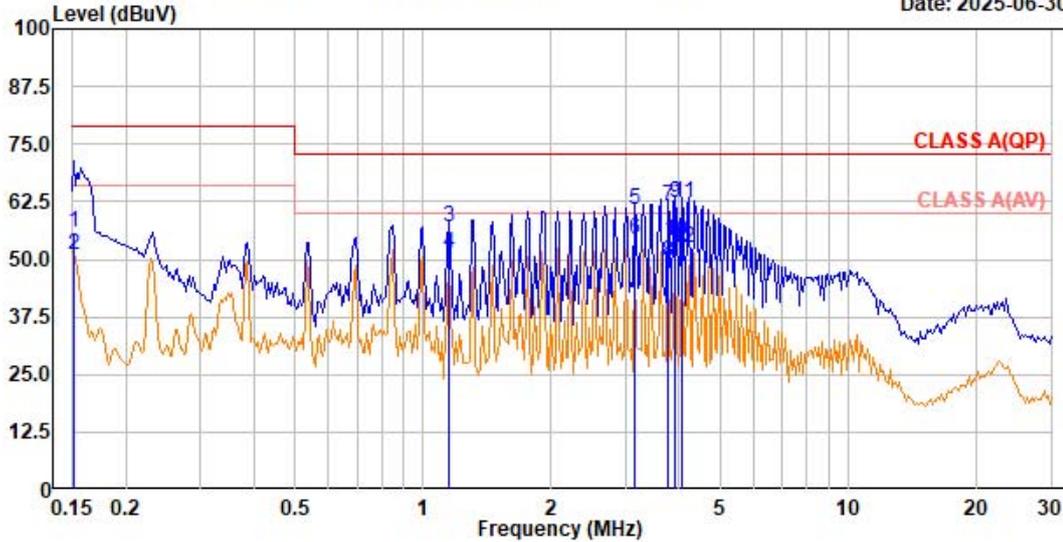
Remark: 1.Emission Level = AMN Factor + Cable loss + Pulse Att. + Reading.



Audix Technology (Shanghai) Co., Ltd.  
 3F #34Bldg. No.680 GuiPing Rd.,CaoHeJing  
 Hi-Tech Park,Shanghai 200233, China  
 Tel:+86-21-64955500  
 audixaci@audix.com

File: D:\Test data-2025\X\XIEWEI-04\XIEWEI-04\_00034.EMI

Date: 2025-06-30



Site no. : Audix (Shanghai) shielded 1                      Data no. : 34  
 AMN : ESH2-Z5-ADAPTER-2025                                  Phase : Neutral  
 Limit : CLASS A(QP)  
 Env. / Ins. : 20°C 40%RH / ESCI                                  Engineer : Neil  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 120V/60Hz  
 Test Mode : Charger & Full Load

	Freq (MHz)	AMN. Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.151	0.10	0.11	9.50	46.18	55.89	79.00	23.11	QP
2	0.151	0.10	0.11	9.50	41.20	50.91	66.00	15.09	Average
3	1.152	0.20	0.14	9.50	47.27	57.11	73.00	15.89	QP
4	1.152	0.20	0.14	9.50	41.57	51.41	60.00	8.59	Average
5	3.153	0.22	0.14	9.50	50.73	60.59	73.00	12.41	QP
6	3.153	0.22	0.14	9.50	44.29	54.15	60.00	5.85	Average
7	3.757	0.28	0.16	9.50	51.39	61.33	73.00	11.67	QP
8	3.757	0.28	0.16	9.50	39.33	49.27	60.00	10.73	Average
9	3.915	0.29	0.16	9.50	52.14	62.09	73.00	10.91	QP
10	3.915	0.29	0.16	9.50	44.03	53.98	60.00	6.02	Average
11	4.068	0.30	0.16	9.50	52.19	62.15	73.00	10.85	QP
12	4.068	0.30	0.16	9.50	42.49	52.45	60.00	7.55	Average

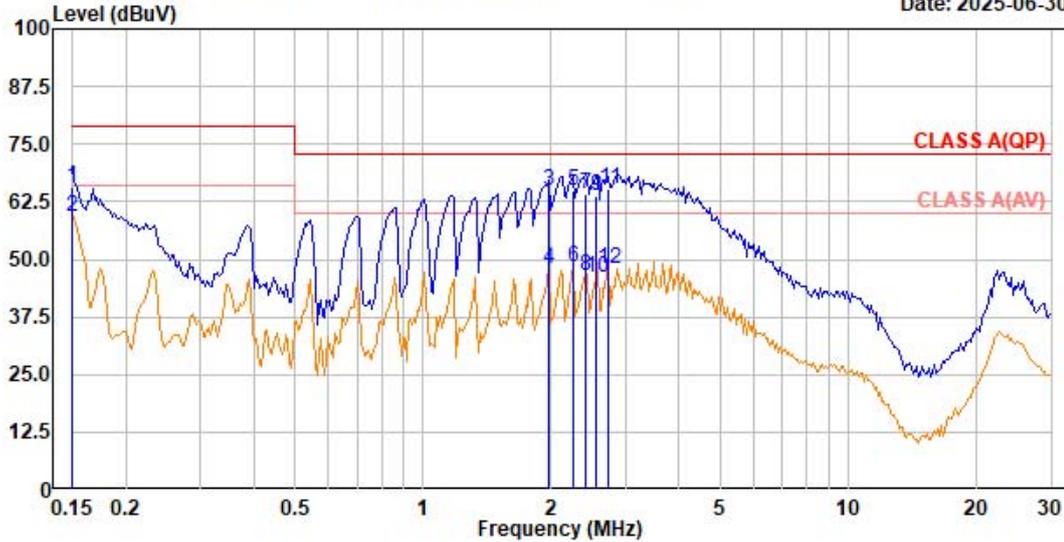
Remark: 1.Emission Level = AMN Factor + Cable loss + Pulse Att. + Reading.



Audix Technology (Shanghai) Co., Ltd.  
 3F #34Bldg. No.680 GuiPing Rd.,CaoHeJing  
 Hi-Tech Park,Shanghai 200233, China  
 Tel:+86-21-64955500  
 audixaci@audix.com

File: D:\Test data-2025\X\XIEWEI-04\XIEWEI-04\_00036.EMI

Date: 2025-06-30



Site no. : Audix (Shanghai) shielded 1                      Data no. : 36  
 AMN : ESH2-Z5-ADAPTER-2025                                  Phase : Line  
 Limit : CLASS A(QP)  
 Env. / Ins. : 20°C 40%RH / ESCI                                  Engineer : Neil  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 120V/60Hz  
 Test Mode : Only Charger

	Freq (MHz)	AMN. Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.150	0.10	0.11	9.50	55.83	65.54	79.00	13.46	QP
2	0.150	0.10	0.11	9.50	49.70	59.41	66.00	6.59	Average
3	1.969	0.20	0.14	9.50	54.95	64.79	73.00	8.21	QP
4	1.969	0.20	0.14	9.50	38.11	47.95	60.00	12.05	Average
5	2.263	0.26	0.14	9.50	55.04	64.94	73.00	8.06	QP
6	2.263	0.26	0.14	9.50	38.23	48.13	60.00	11.87	Average
7	2.402	0.28	0.14	9.50	54.07	63.99	73.00	9.01	QP
8	2.402	0.28	0.14	9.50	36.51	46.43	60.00	13.57	Average
9	2.550	0.30	0.14	9.50	53.94	63.88	73.00	9.12	QP
10	2.550	0.30	0.14	9.50	36.10	46.04	60.00	13.96	Average
11	2.733	0.30	0.14	9.50	55.19	65.13	73.00	7.87	QP
12	2.733	0.30	0.14	9.50	38.07	48.01	60.00	11.99	Average

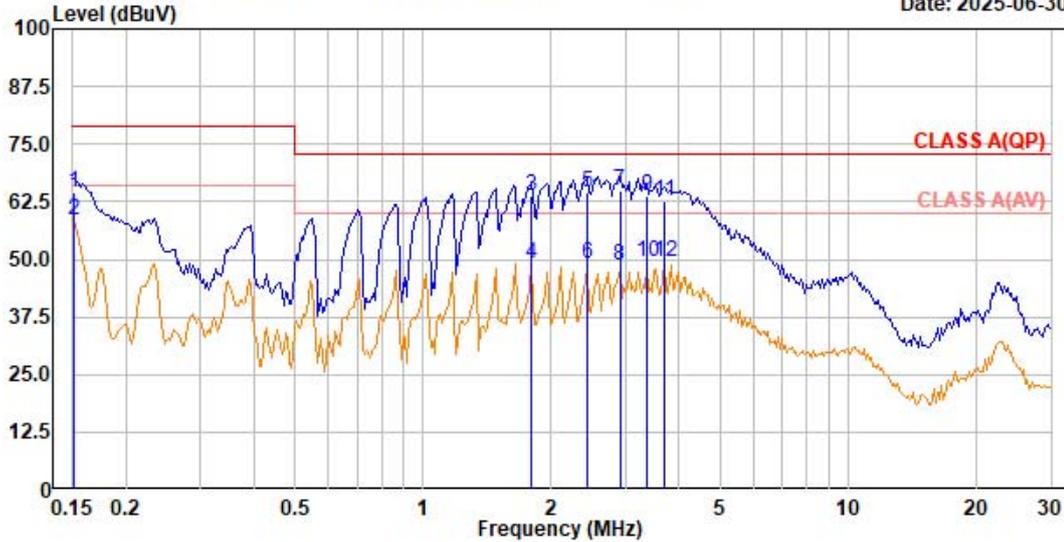
Remark: 1.Emission Level = AMN Factor + Cable loss + Pulse Att. + Reading.



Audix Technology (Shanghai) Co., Ltd.  
 3F #34Bldg. No.680 GuiPing Rd.,CaoHeJing  
 Hi-Tech Park,Shanghai 200233, China  
 Tel:+86-21-64955500  
 audixaci@audix.com

File: D:\Test data-2025\X\XIEWEI-04\XIEWEI-04\_00035.EMI

Date: 2025-06-30



Site no. : Audix (Shanghai) shielded 1                      Data no. : 35  
 AMN : ESH2-Z5-ADAPTER-2025                                  Phase : Neutral  
 Limit : CLASS A(QP)  
 Env. / Ins. : 20°C 40%RH / ESCI                                  Engineer : Neil  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 120V/60Hz  
 Test Mode : Only Charger

	Freq (MHz)	AMN. Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.151	0.10	0.11	9.50	54.89	64.60	79.00	14.40	QP
2	0.151	0.10	0.11	9.50	48.81	58.52	66.00	7.48	Average
3	1.800	0.20	0.14	9.50	53.95	63.79	73.00	9.21	QP
4	1.800	0.20	0.14	9.50	39.11	48.95	60.00	11.05	Average
5	2.426	0.20	0.14	9.50	54.76	64.60	73.00	8.40	QP
6	2.426	0.20	0.14	9.50	39.07	48.91	60.00	11.09	Average
7	2.901	0.20	0.14	9.50	54.95	64.79	73.00	8.21	QP
8	2.901	0.20	0.14	9.50	38.82	48.66	60.00	11.34	Average
9	3.368	0.24	0.15	9.50	53.96	63.85	73.00	9.15	QP
10	3.368	0.24	0.15	9.50	39.41	49.30	60.00	10.70	Average
11	3.683	0.27	0.16	9.50	52.80	62.73	73.00	10.27	QP
12	3.683	0.27	0.16	9.50	39.36	49.29	60.00	10.71	Average

Remark: 1.Emission Level = AMN Factor + Cable loss + Pulse Att. + Reading.

## 4 RADIATED EMISSION MEASUREMENT

### 4.1 Test Equipment

The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

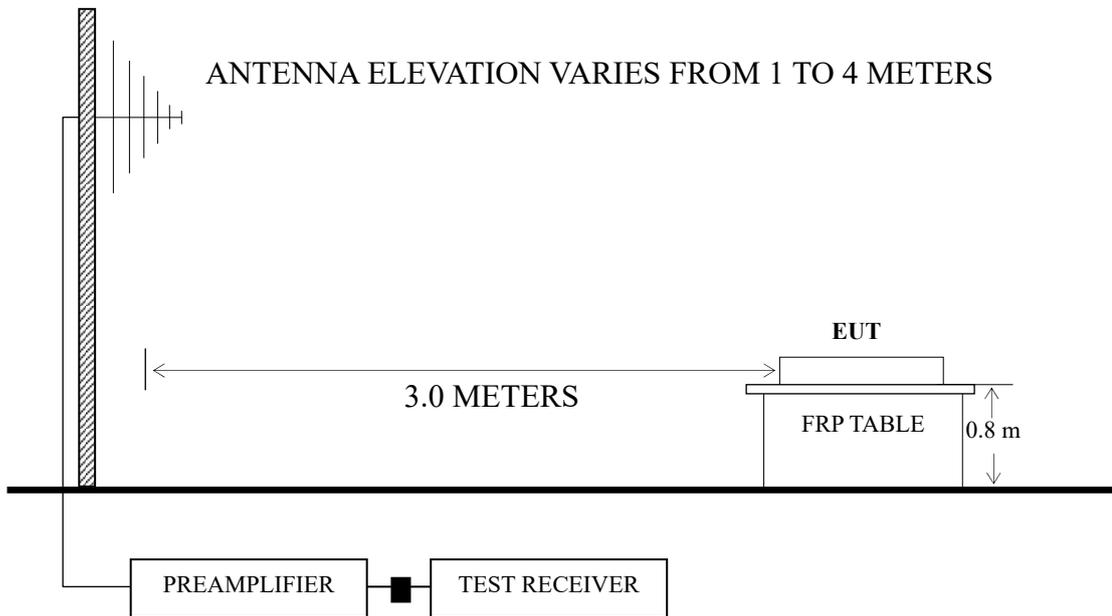
Below 1GHz

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Signal and Spectrum Analyzer	R&S	FSV4	103380	2025-03-24	1 Year
2.	Signal and Spectrum Analyzer	R&S	FSV4	103379	2025-03-24	1 Year
3.	Pre-Amplifier	Chengyidianzi	EMC9135	980374	2025-07-08	1 Year
4.	Pre-Amplifier	Chengyidianzi	EMC9135	980373	2025-07-08	1 Year
5.	Bi-log Antenna (Horizontal)	SCHWARZBECK	VULB 9168	703	2024-10-12	1 Year
6.	Bi-log Antenna (Vertical)	SCHWARZBECK	VULB 9168	704	2024-08-06	1 Year
7.	Test Receiver	R&S	ESCI	100352	2025-03-24	1 Year
8.	Switch+Cable	Channel+Shengxuan	ERS-1803AM+EM104	EC2400135+0.5M	2025-07-08	1 Year
9.	RF Cable	Shengxuan+Chaoyu	Rosnol+LMR400	N1C50-ROS400 (3+20)	2024-12-13	1 Year
10.	RF Cable	Shengxuan+Ming Qiao	Rosnol	180326-3 (3+13)	2025-03-24	1 Year
11.	Software	Audix /e3 (210616)				

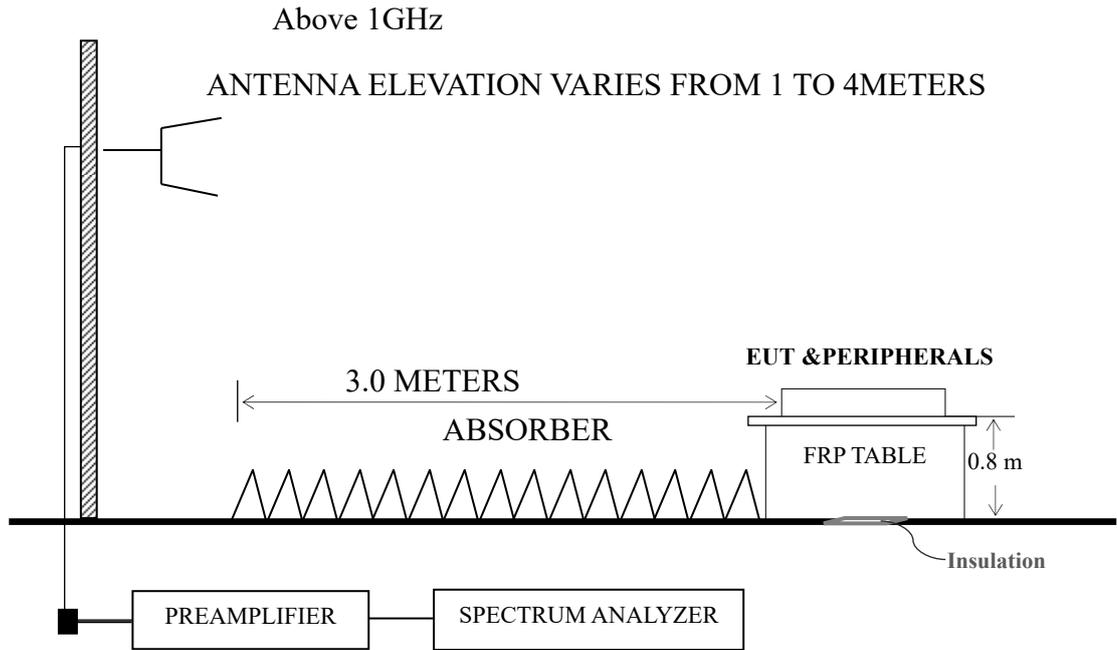
Above 1GHz

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Bilog Antenna+6dB Attenuator	Schwarz beck	VULB 9168+EMCI-N-6-06	708+AT-0638	2025/3/8	1 Year
2.	Horn Antenna	ETS	3115	96074878	2024/7/25	1 Year
3.	Preamplifier	Agilent	8447D	2944A10548	2025/2/22	1 Year
4.	Preamplifier	HP	8449B	3008A00864	2025/2/22	1 Year
5.	EXA Signal Analyzer	Agilent	N9010A	MY52221182	2024/8/9	1 Year
6.	Test Receiver	R&S	ESCI	101303	2025/2/22	1 Year
7.	RE Cable-1m+Coaxial Switch	HARBOUR+ ANRITSU	RE Cable-1m+ MP59B	RE-1m-00x+ 6200655086	2025/2/22	1 Year
8.	RE Cable-10m+15m	SCHAFFNER	RG 212U-MIL C 17+N1K50-E W0630-N1K5 0-15m-1	RE-10m-001+ RE-15m-002	2025/2/22	1 Year
9.	Software	Audix	e3	e3.v9.210616	-----	-----

4.2 Block Diagram of Test Setup



■ : 50 ohm Coaxial Switch



■ : 50ohm Coaxial Switch

### 4.3 Radiated Emission Limit

Frequency (MHz)	Distance (m)	Field strength limits		Converted Field Strength Limits By 3 Meters Measuring Distance
		( $\mu\text{V/m}$ )	dB ( $\mu\text{V/m}$ )	dB ( $\mu\text{V/m}$ )
30 ~ 88	10	90	39.00	49.50
88 ~ 216	10	150	43.50	54.00
216 ~ 960	10	210	46.50	57.00
Above 960	10	300	49.50	60.00

NOTE 1 – The lower limit shall apply at the transition frequency.

NOTE 2 – Measuring distance of 10 m is a primary requirement. In this case, the limits with measuring distance of 3 m shall be the above limit value increased  $20\lg(10/3)=10.5$ .

NOTE 3 – 1  $\mu\text{V/m}$  is regarded as 0 dB ( $\mu\text{V/m}$ ).

### 4.4 Test Configuration

The EUT (listed in Sec.2.1) was installed as shown on Sec.4.2 meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

## 4.5 Operating Condition of EUT

- 4.5.1 Set up the EUT as shown in Sec.4.2.
- 4.5.2 Turn on the power of the EUT.
- 4.5.3 Set the EUT on the lighting test mode, and then test.

## 4.6 Test Procedures

The EUT was placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4-2014 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 120 kHz.

The frequency range from 30 MHz to 1000 MHz was checked.

The I.F. bandwidth of Test Receiver R&S ESR3 was set at 120 kHz below 1GHz and The Spectrum Agilent N9010A was set at 1MHz above 1GHz.

The frequency range from 1 GHz to 6 GHz was checked for the worst test mode.

The test mode was done on radiated disturbance test and all the test results are listed in Sec.4.7.

## 4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative to the limit is reported. All the emissions not reported below are too low against the FCC limit.

Frequency		Test Mode	Data Page
Below 1GHz	Mode 1	AC input charge mode, keep power station being charged.	P19-P20
	Mode 2	Car charger DC input charge mode, keep power station being charged with car charger.	P21-P22
	Mode 3	Full output mode, keep power station discharging with full load(DC12V 10Aoutput, DC 20V 5A , DC 20V 2.25A, dual USB-A 18W output and AC output).	P23-P24
	Mode 4	AC input charge and full output mode, keep power station being charged and discharging with full load(DC12V 10A output, DC 20V 5A DC 20V 2.25A, dual USB-A 18W output and AO output, lighting).	P25-P26
	Mode 5	Car charger DC input charge and full output mode, keep power station being charged with car charger and discharging with full load(DC12V 10A output, DC 20V 5A DC 20V 2.25A, dua USB-A 18W output and AC output)	P27-P28
Above 1GHz	Mode 4	AC input charge and full output mode, keep power station being charged and discharging with full load(DC12V 10A output, DC 20V 5A DC 20V 2.25A, dual USB-A 18W output and AO output, lighting).	P29-P30

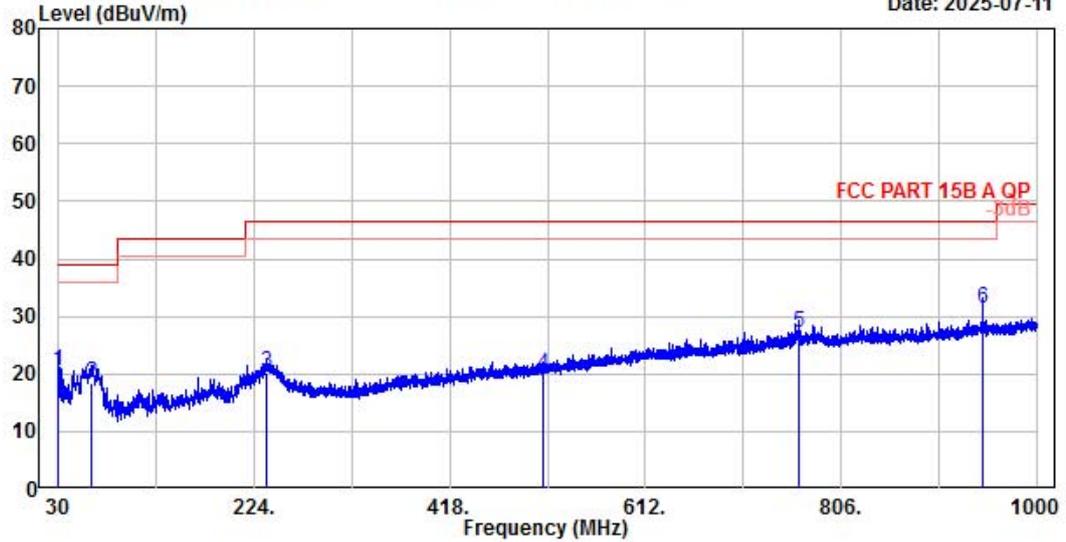
NOTE – All reading are Quasi-Peak values.



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 Economic Development Zone,JiangSu,China  
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File: E:\Test DATA\2025M明纬IC1D2506038\0\_00002.EMI

Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-703-2410  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 120Vac/60Hz  
 Test Mode : Mode 1  
 Memo :  
 Ant. pol.: Horizontal Data NO.:2  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark	AP	TP
30.000	19.90	0.62	37.37	37.40	20.49	39.00	18.51	QP	100	355
62.786	19.08	0.89	35.66	37.14	18.49	39.00	20.51	QP	150	195
236.610	17.60	1.54	37.20	36.14	20.20	46.40	26.20	QP	135	360
510.926	23.80	2.29	30.44	36.47	20.06	46.40	26.34	QP	400	75
763.902	28.14	2.86	32.66	36.44	27.22	46.40	19.18	QP	400	165
946.456	29.66	3.26	34.95	36.60	31.27	46.40	15.13	QP	391	274

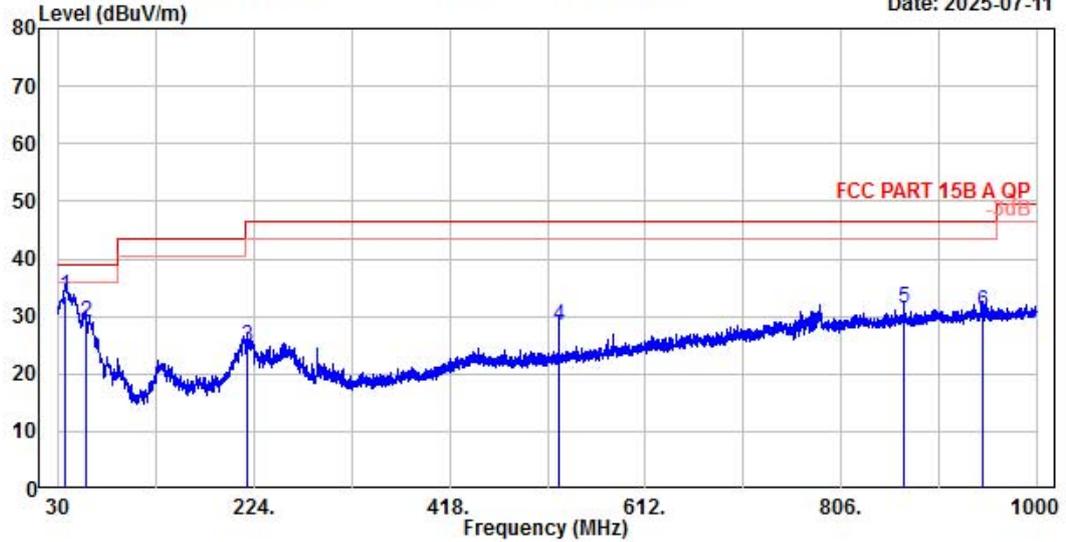
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-704-2408  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 120Vac/60Hz  
 Test Mode : Mode 1  
 Memo :  
 Ant. pol.: Vertical Data NO.:1  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark	AP	TP
37.372	19.05	0.76	50.29	36.59	33.51	39.00	5.49	QP	108	198
57.354	19.41	0.93	45.10	36.55	28.89	39.00	10.11	QP	116	163
217.792	16.58	1.81	41.91	35.48	24.82	46.40	21.58	QP	134	154
526.252	24.03	3.00	37.08	35.86	28.25	46.40	18.15	QP	129	137
869.050	28.63	4.22	34.56	36.04	31.37	46.40	15.03	QP	155	249
946.262	29.56	4.56	32.91	36.33	30.70	46.40	15.70	QP	209	236

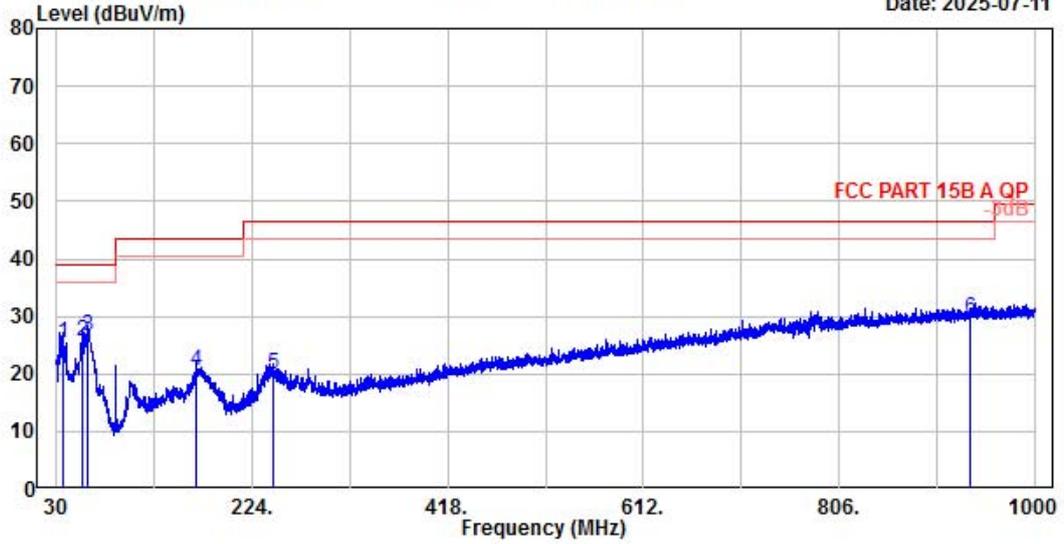
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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 Economic Development Zone,JiangSu,China  
 Tel : (0512) 63403993 Fax: (0512) 63403339

File: E:\Test DATA\2025M明纬IC1D2506038\0\_00007.EMI

Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-704-2408  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 46Vdc  
 Test Mode : Mode 2  
 Memo :  
 Ant. pol.: Vertical Data NO.:7  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark	AP	TP
36.984	19.06	0.76	42.01	36.59	25.24	39.00	13.76	QP	110	200
56.190	19.45	0.92	41.91	36.55	25.73	39.00	13.27	QP	115	170
61.622	19.02	0.96	43.04	36.54	26.48	39.00	12.52	QP	150	155
169.292	18.83	1.59	35.75	35.78	20.39	43.50	23.11	QP	130	178
244.952	17.61	1.93	35.87	35.53	19.88	46.40	26.52	QP	160	250
936.562	29.44	4.51	31.79	36.28	29.46	46.40	16.94	QP	220	266

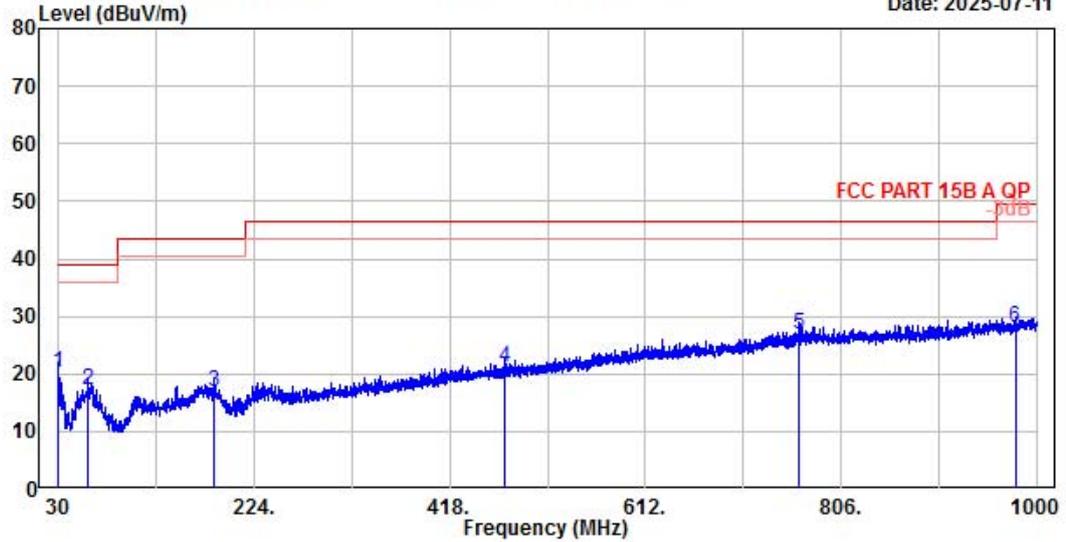
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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 Economic Development Zone,JiangSu,China  
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Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-703-2410  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 46Vdc  
 Test Mode : Mode 2  
 Memo :  
 Ant. pol.: Horizontal Data NO.:8  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark	AP	TP
30.000	19.90	0.62	37.05	37.40	20.17	39.00	18.83	QP	112	350
59.876	19.50	0.88	34.01	37.16	17.23	39.00	21.77	QP	145	190
184.036	18.20	1.37	33.77	36.43	16.91	43.50	26.59	QP	153	359
472.514	23.27	2.19	31.97	36.42	21.01	46.40	25.39	QP	355	800
763.902	28.14	2.86	32.33	36.44	26.89	46.40	19.51	QP	398	160
978.660	29.87	3.34	31.40	36.60	28.01	49.50	21.49	QP	388	266

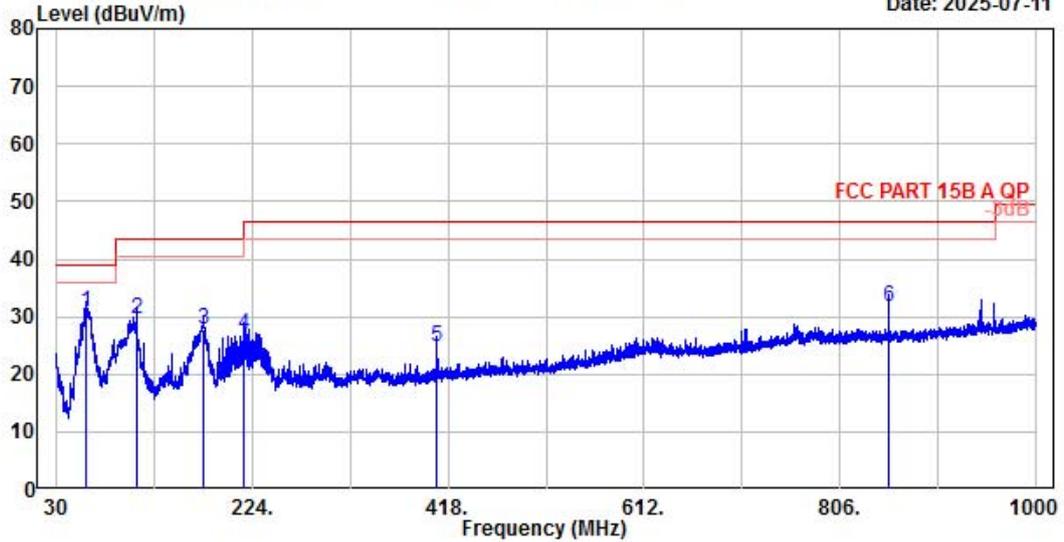
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-703-2410  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating :  
 Test Mode : Mode 3  
 Memo :  
 Ant. pol.: Horizontal Data NO.:6  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark	AP	TP
58.712	19.46	0.87	47.51	37.17	30.67	39.00	8.33	QP	103	345
108.958	17.13	1.10	48.08	36.83	29.48	43.50	14.02	QP	145	203
175.694	18.90	1.34	44.08	36.45	27.87	43.50	15.63	QP	126	344
216.046	16.98	1.48	44.73	36.24	26.95	46.40	19.45	QP	389	100
407.330	21.89	2.03	36.98	36.22	24.68	46.40	21.72	QP	396	150
854.888	28.74	3.05	36.38	36.51	31.66	46.40	14.74	QP	400	260

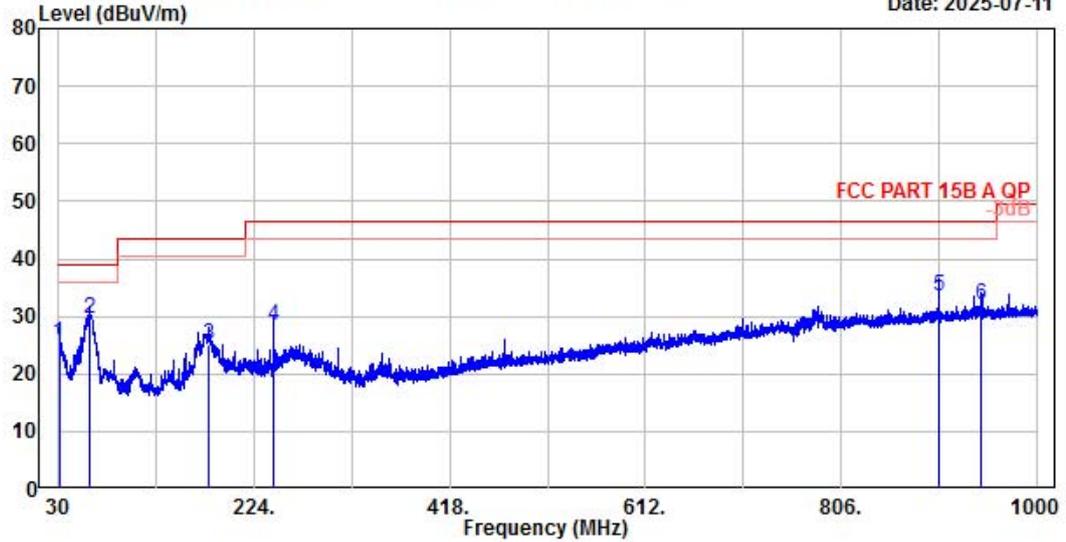
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-704-2408  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating :  
 Test Mode : Mode 3  
 Memo :  
 Ant. pol.: Vertical Data NO.:5  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark	AP	TP
30.582	19.19	0.70	41.94	36.60	25.23	39.00	13.77	QP	110	203
61.428	19.06	0.96	46.08	36.54	29.56	39.00	9.44	QP	123	177
179.768	17.73	1.63	41.29	35.72	24.93	43.50	18.57	QP	150	169
243.400	17.55	1.92	44.29	35.51	28.25	46.40	18.15	QP	150	148
902.806	29.03	4.36	36.38	36.11	33.66	46.40	12.74	QP	199	269
945.486	29.55	4.55	34.24	36.33	32.01	46.40	14.39	QP	250	300

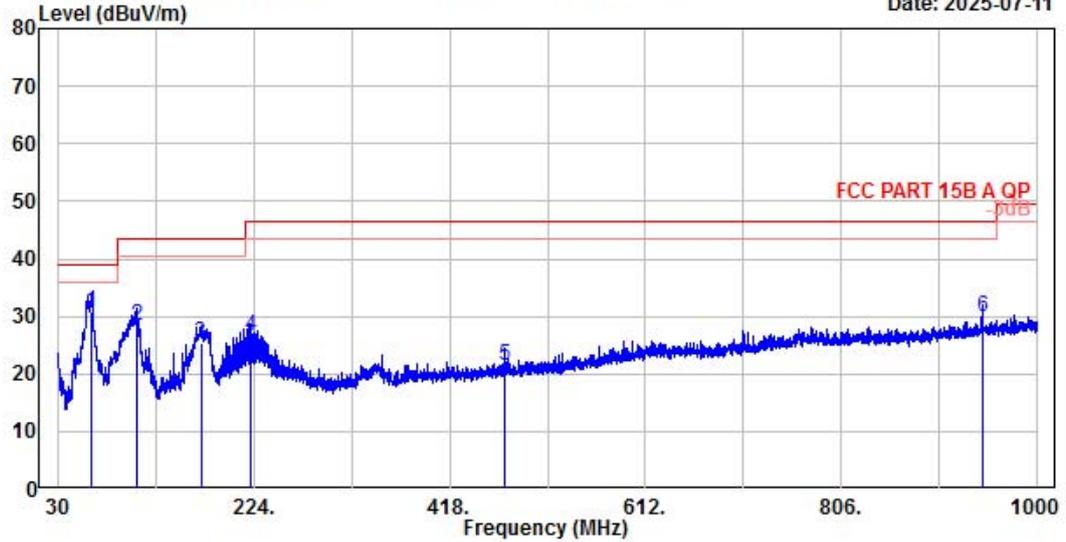
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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 Economic Development Zone,JiangSu,China  
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Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-703-2410  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 46Vdc  
 Test Mode : Mode 4  
 Memo :  
 Ant. pol.: Horizontal Data NO.:10  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark	AP	TP
62.980	19.05	0.89	47.93	37.14	30.73	39.00	8.27	QP	102	245
107.600	16.92	1.10	47.23	36.84	28.41	43.50	15.09	QP	112	200
171.232	19.21	1.33	41.16	36.46	25.24	43.50	18.26	QP	150	356
220.120	17.10	1.49	44.32	36.20	26.71	46.40	19.69	QP	355	75
473.096	23.28	2.19	32.48	36.42	21.53	46.40	24.87	QP	388	155
945.874	29.65	3.26	33.64	36.60	29.95	46.40	16.45	QP	397	260

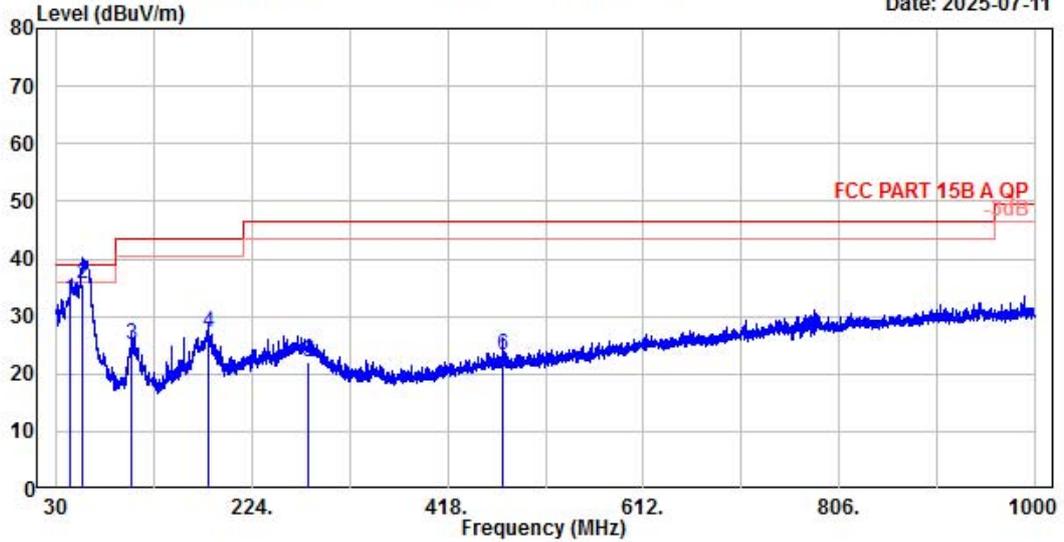
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang  
 Economic Development Zone,JiangSu,China  
 Tel : (0512) 63403993 Fax: (0512) 63403339

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Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-704-2408  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 46Vdc  
 Test Mode : Mode 4  
 Memo :  
 Ant. pol.: Vertical Data NO.:9  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark	AP	TP
44.162	19.29	0.82	49.32	36.57	32.86	39.00	6.14	QP	122	256
56.200	19.45	0.92	51.82	36.55	35.64	39.00	3.36	QP	100	153
104.496	15.44	1.28	44.78	36.36	25.14	43.50	18.36	QP	100	200
180.156	17.68	1.64	43.51	35.72	27.11	43.50	16.39	QP	115	172
279.678	18.63	2.08	37.11	35.83	21.99	46.40	24.41	QP	150	169
472.902	23.23	2.81	32.86	35.70	23.20	46.40	23.20	QP	133	189

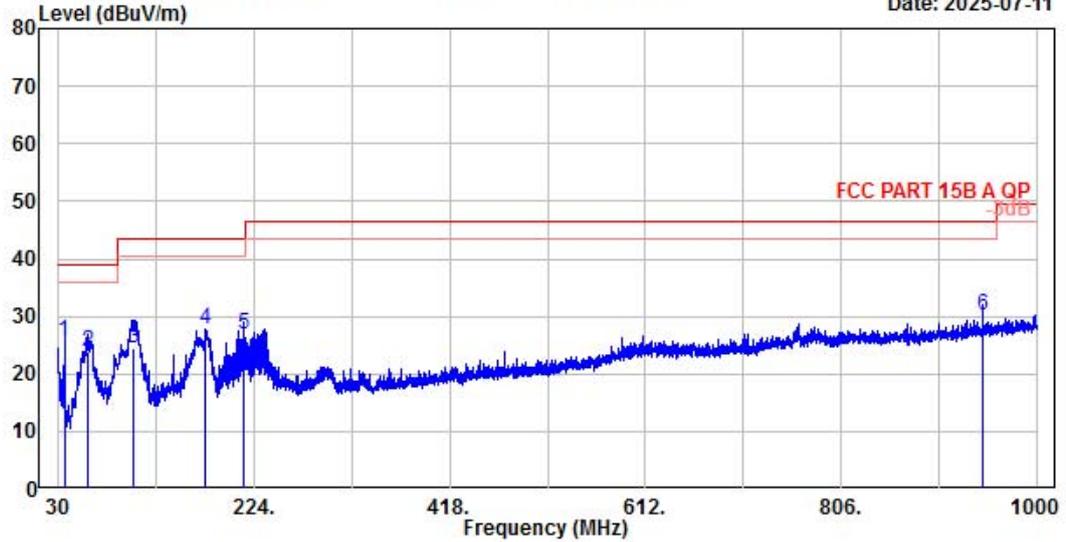
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-703-2410  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 120Vac/60Hz  
 Test Mode : Mode 5  
 Memo :  
 Ant. pol.: Horizontal Data NO.:4  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark	AP	TP
35.820	16.76	0.68	45.54	37.35	25.63	39.00	13.37	QP	103	348
59.100	19.47	0.87	40.81	37.17	23.98	39.00	15.02	QP	136	199
104.690	16.45	1.09	43.66	36.86	24.34	43.50	19.16	QP	150	358
176.276	18.86	1.34	44.17	36.45	27.92	43.50	15.58	QP	350	77
213.718	16.91	1.47	44.87	36.26	26.99	43.50	16.51	QP	366	160
946.262	29.66	3.26	33.74	36.60	30.06	46.40	16.34	QP	400	280

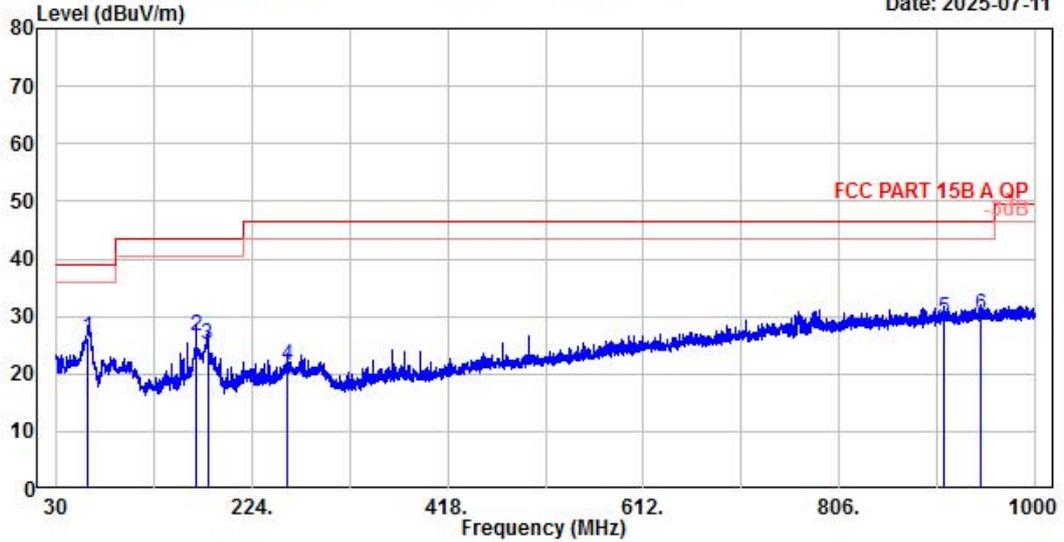
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\Test DATA\2025M明纬IC1D2506038\0\_00003.EMI

Date: 2025-07-11



Site NO. : 10M Chamber  
 Instrument 1 : Receiver ESCI (352)  
 Instrument 2 : Preamplifier EMC9135(373&374)|400  
 Dis. / Ant. : 9168-704-2408  
 Limit : FCC PART 15B A QP  
 Env. / Ins. : 24°C&46%  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 120Vac/60Hz  
 Test Mode : Mode 5  
 Memo :  
 Ant. pol.: Vertical Data NO.:3  
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark	AP	TP
61.816	18.99	0.96	42.88	36.54	26.29	39.00	12.71	QP	100	206
169.098	18.84	1.58	42.05	35.79	26.68	43.50	16.82	QP	120	178
179.962	17.70	1.64	41.46	35.72	25.08	43.50	18.42	QP	133	178
259.696	18.07	1.99	37.00	35.65	21.41	46.40	24.99	QP	156	289
910.566	29.13	4.40	32.22	36.15	29.60	46.40	16.80	QP	160	305
946.456	29.56	4.56	32.34	36.33	30.13	46.40	16.27	QP	200	250

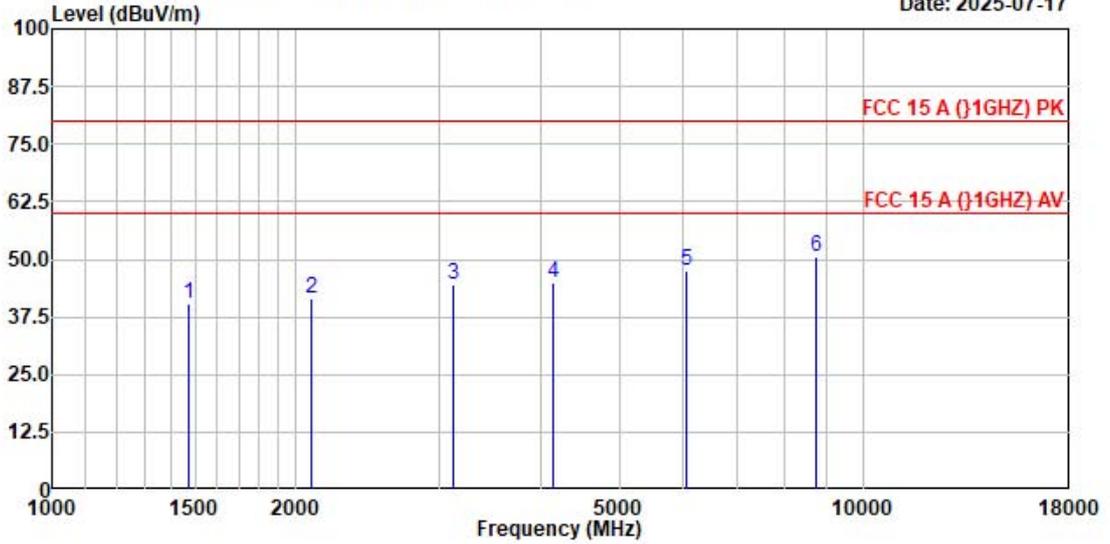
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Shanghai) Co., Ltd.  
 3F #34Bldg. No.680 GuiPing Rd.,CaoHeJing  
 Hi-Tech Park,Shanghai 200233, China  
 Tel:+86-21-64955500  
 audixaci@audix.com

File: E:\2025data\XIXIEWEI\XIXIEWEI\_00011.EMI

Date: 2025-07-17



Site no. : Audix (Shanghai) Chamber 3                      Data no. : 11  
 Dis. / Ant. : 3m / 3115-2024                                  Ant. Pol. : Horizontal  
 Limit : FCC 15 A (}1GHZ) PK  
 Env. / Ins. : 22°C 55%RH / FPL1026                      Engineer : Jeff  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 46Vdc  
 Test Mode : Mode4

	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1471.750	25.66	2.30	36.97	49.49	40.48	80.00	39.52	Peak
2	2092.250	27.77	2.69	36.56	47.64	41.54	80.00	38.46	Peak
3	3129.250	30.98	3.35	35.50	45.69	44.52	80.00	35.48	Peak
4	4153.500	32.49	4.04	36.17	44.41	44.77	80.00	35.23	Peak
5	6044.750	34.38	5.19	36.80	44.96	47.73	80.00	32.27	Peak
6	8730.750	38.29	5.84	37.30	43.83	50.66	80.00	29.34	Peak

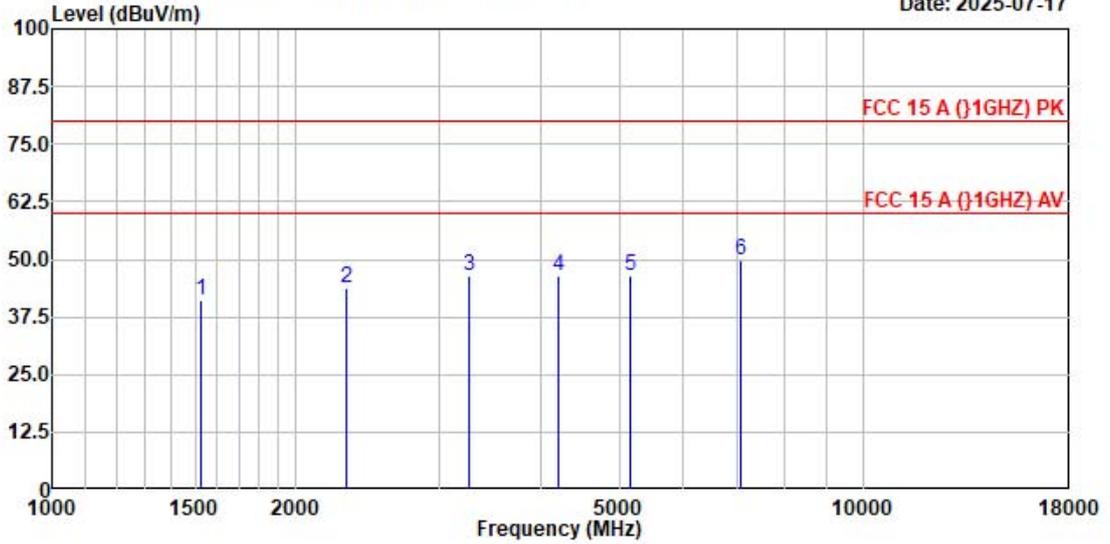
Remarks: 1.Emission Level = Antenna Factor + Cable Loss - Preamp Factor + Reading.



Audix Technology (Shanghai) Co., Ltd.  
 3F #34Bldg. No.680 GuiPing Rd.,CaoHeJing  
 Hi-Tech Park,Shanghai 200233, China  
 Tel:+86-21-64955500  
 audixaci@audix.com

File: E:\2025data\XIXIEWEI\XIXIEWEI\_00012.EMI

Date: 2025-07-17



Site no. : Audix (Shanghai) Chamber 3                      Data no. : 12  
 Dis. / Ant. : 3m / 3115-2024                                  Ant. Pol. : Vertical  
 Limit : FCC 15 A (}1GHZ) PK  
 Env. / Ins. : 22'C 55%RH / FPL1026                      Engineer : Jeff  
 EUT : Portable Energy Storage Power  
 M/N : ES-S1000-US  
 Power Rating : 46Vdc  
 Test Mode : Mode4

	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1527.000	25.89	2.34	36.93	49.94	41.24	80.00	38.76	Peak
2	2304.750	28.23	2.84	36.25	48.98	43.80	80.00	36.20	Peak
3	3269.500	31.30	3.45	35.61	47.45	46.59	80.00	33.41	Peak
4	4208.750	32.40	4.08	36.19	46.01	46.30	80.00	33.70	Peak
5	5169.250	33.66	4.71	36.55	44.49	46.31	80.00	33.69	Peak
6	7069.000	35.71	5.50	36.93	45.40	49.68	80.00	30.32	Peak

Remarks: 1.Emission Level = Antenna Factor + Cable Loss - Preamp Factor + Reading.

## 5 MEASUREMENT UNCERTAINTY LIST

The measurement uncertainty was estimated for test on the EUT according to CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage of K=2.

The uncertainties value is not used in determining the PASS/FAIL results.

### For Test Site #1

Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Estimation of Uncertainty for Conduction Emission (Shielded Room-1)	9kHz~150kHz(50Ω/50μH -AMN)	3.74 dB
	150kHz~30MHz(50Ω/50μH -AMN)	3.34 dB
	150kHz~30MHz(50Ω/50μH -AMN-CAT 3)	3.46 dB
	150kHz~30MHz(50Ω/50μH -AMN-CAT 5)	3.48 dB
	150kHz~30MHz(50Ω/50μH -AMN-CAT 6)	3.60 dB
	9kHz~30MHz(VP, considering the effect of mains impedance when compared with AMN)	24.64 dB
	9kHz~30MHz(VP)	2.76 dB
	9kHz~30MHz(CP, considering the effect of AE impedance when compared with AMN)	24.64 dB
	9kHz~30MHz(CP)	2.82 dB
Estimation of Uncertainty for Conduction Emission (Shielded Room-3)	9kHz~150kHz(50Ω/50μH -AMN)	3.74 dB
	150kHz~30MHz(50Ω/50μH -AMN)	3.34 dB
Estimation of Uncertainty for Power Clamp	30MHz~300MHz (Absorbing Clamp)	3.68 dB
Estimation of Uncertainty for CDNE	30MHz~300MHz (CDNE-M210)	3.68 dB
	30MHz~300MHz (CDNE-M310)	3.68 dB
Estimation of Uncertainty for EMF	20kHz~10MHz	1.54 dB
Estimation of Uncertainty for Radiated Emission	30M~200MHz (Vertical)	4.56dB
	30M~200MHz (Horizontal)	4.44dB
	200M~1000MHz (Vertical)	5.28dB
	200M~1000MHz (Horizontal)	3.88dB
	1G~6GHz	4.34dB
	6G~18G Hz	4.40dB
	18G~40G Hz	4.04dB

### For Test Site #2

Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Radiated Emission	30MHz~300MHz, Horizontal	±5.04 dB
	30MHz~300MHz, Vertical	±4.36 dB
	300MHz~1000MHz, Horizontal	±5.00 dB
	300MHz~1000MHz, Vertical	±3.86 dB
	1GHz~6GHz	±5.10dB

## 6 PHOTOGRAPHS

### 6.1 Conducted Emission Test



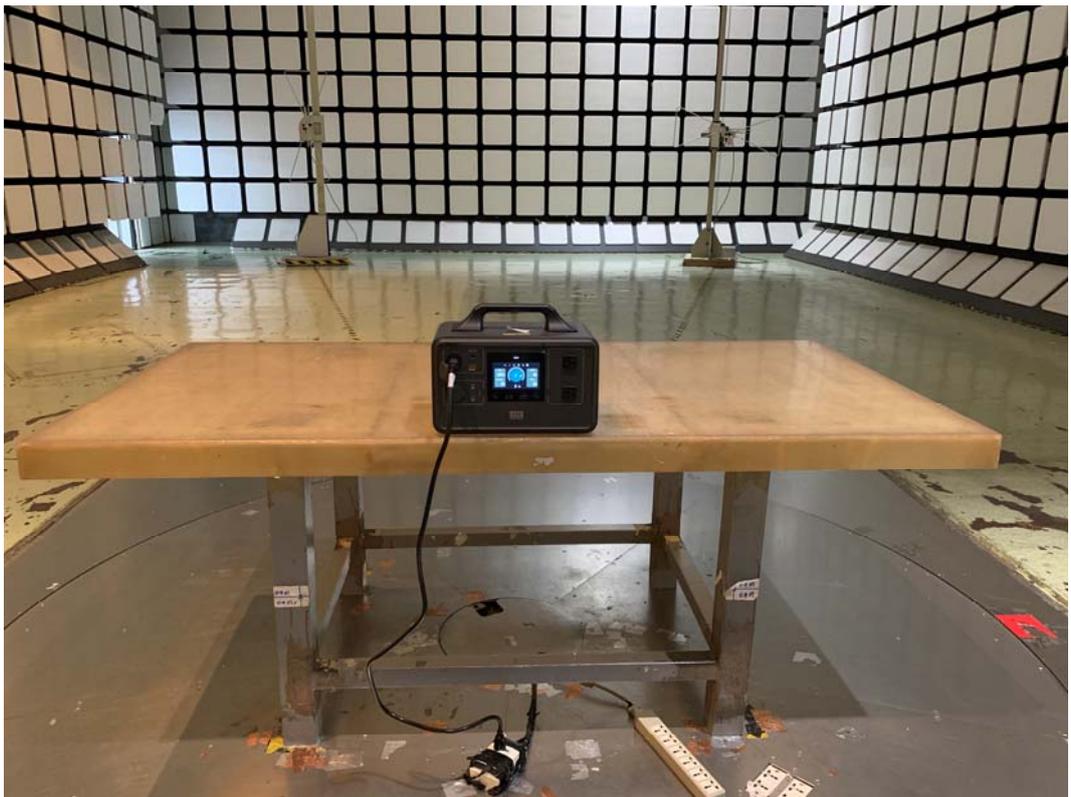
*FRONT VIEW*



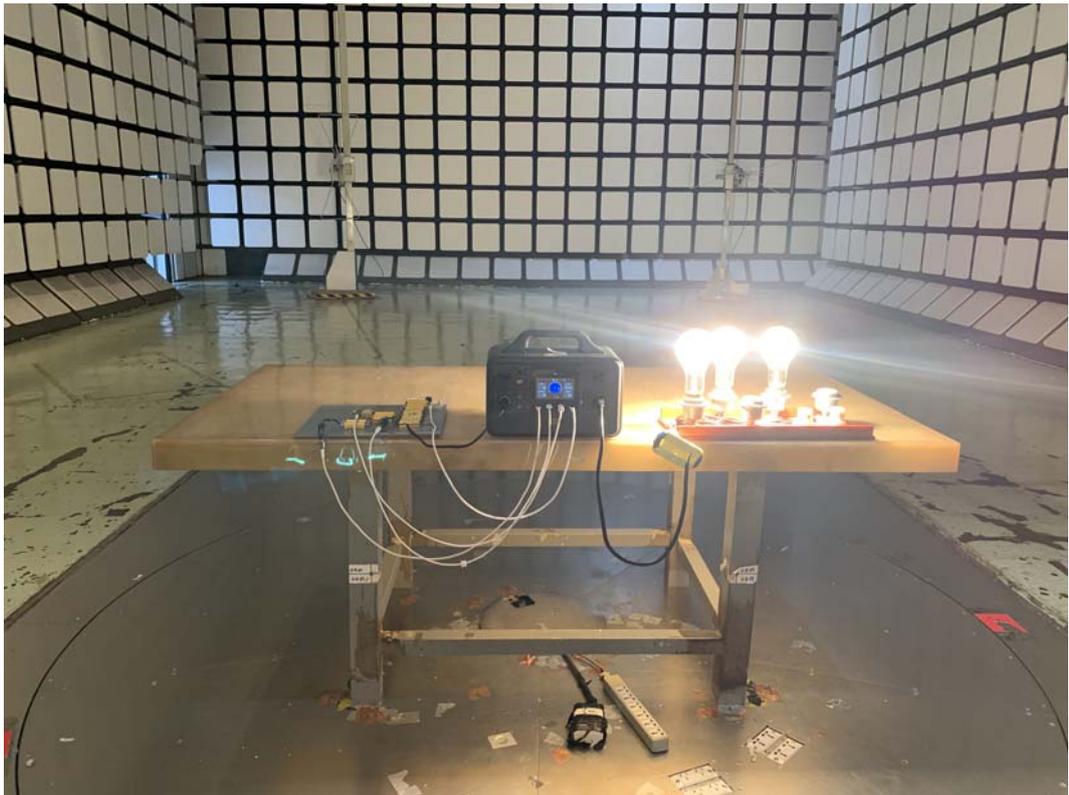
*BACK VIEW*

## 6.2 Radiated Emission Test

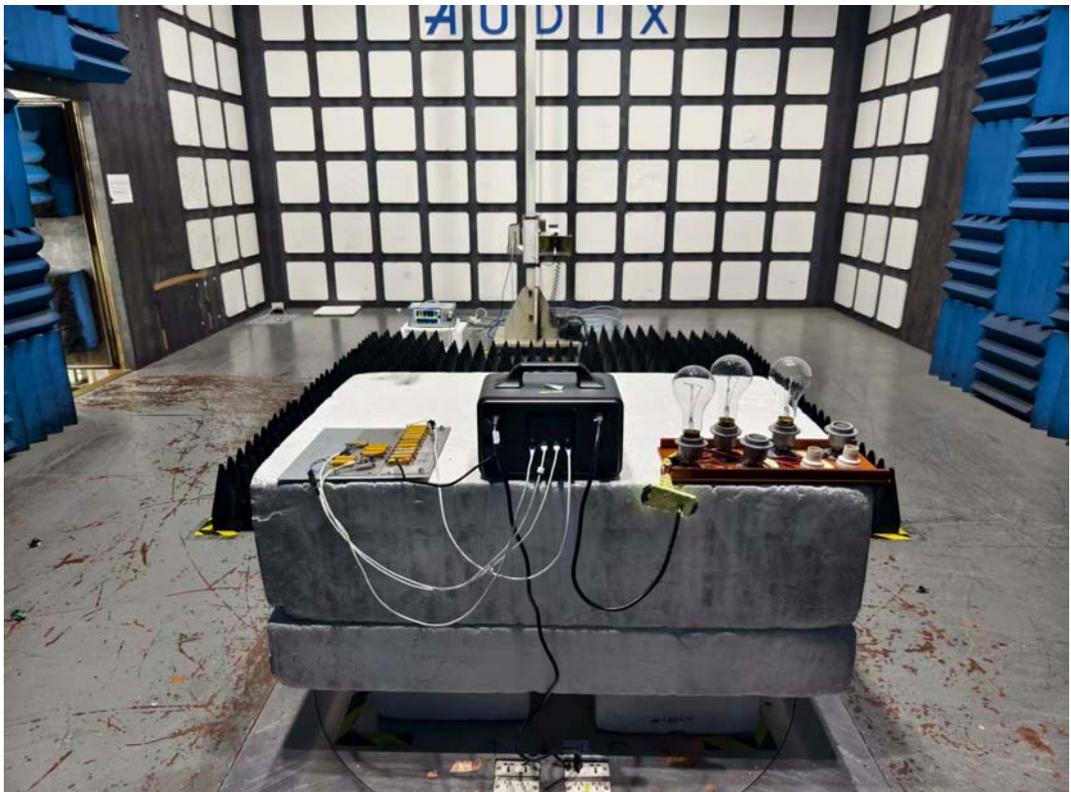












# **APPENDIX**

(Photos of EUT)

FIGURE 1  
PORTABLE ENERGY STORAGE POWER (M/N: ES-S1000-US)  
OUT-1



FIGURE 2  
PORTABLE ENERGY STORAGE POWER (M/N: ES-S1000-US)  
OUT-2



*FIGURE 3*  
*PORTABLE ENERGY STORAGE POWER (M/N: ES-S1000-US)*  
*OUT-3*



*FIGURE 4*  
*PORTABLE ENERGY STORAGE POWER (M/N: ES-S1000-US)*  
*OUT-4*



*FIGURE 5*  
*PORTABLE ENERGY STORAGE POWER (M/N: ES-S1000-US)*  
*OUT-5*



*FIGURE 6*  
*PORTABLE ENERGY STORAGE POWER (M/N: ES-S1000-US)*  
*OUT-6*

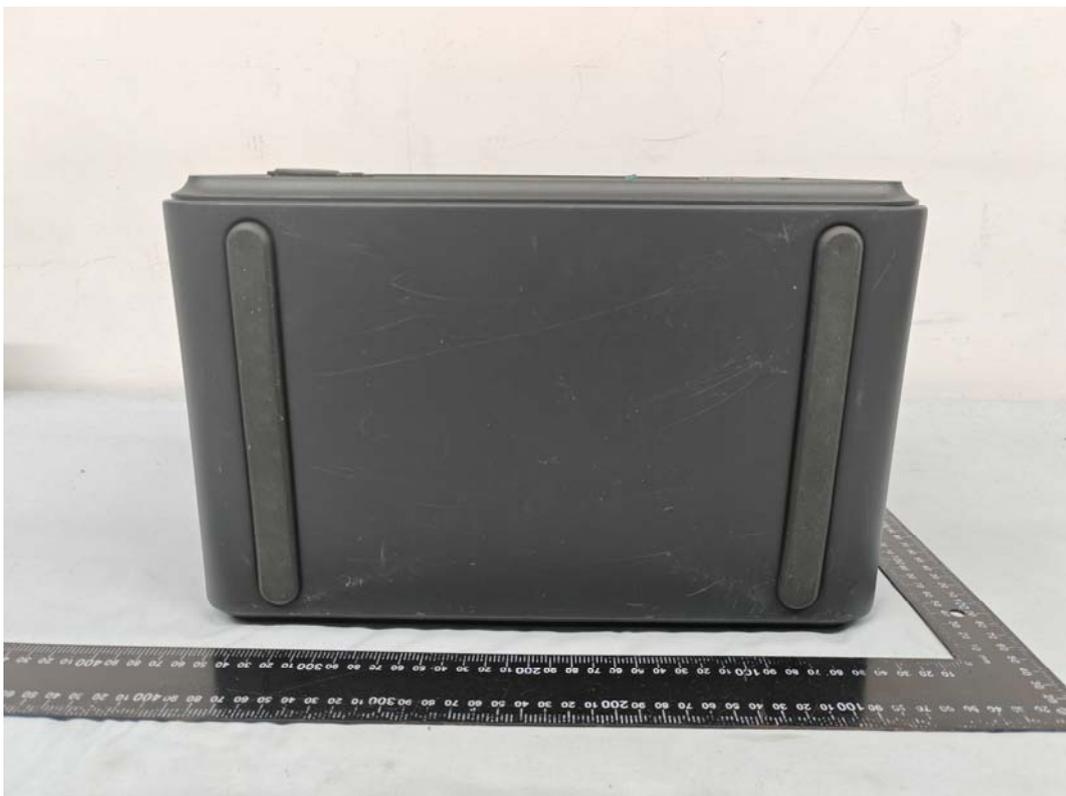
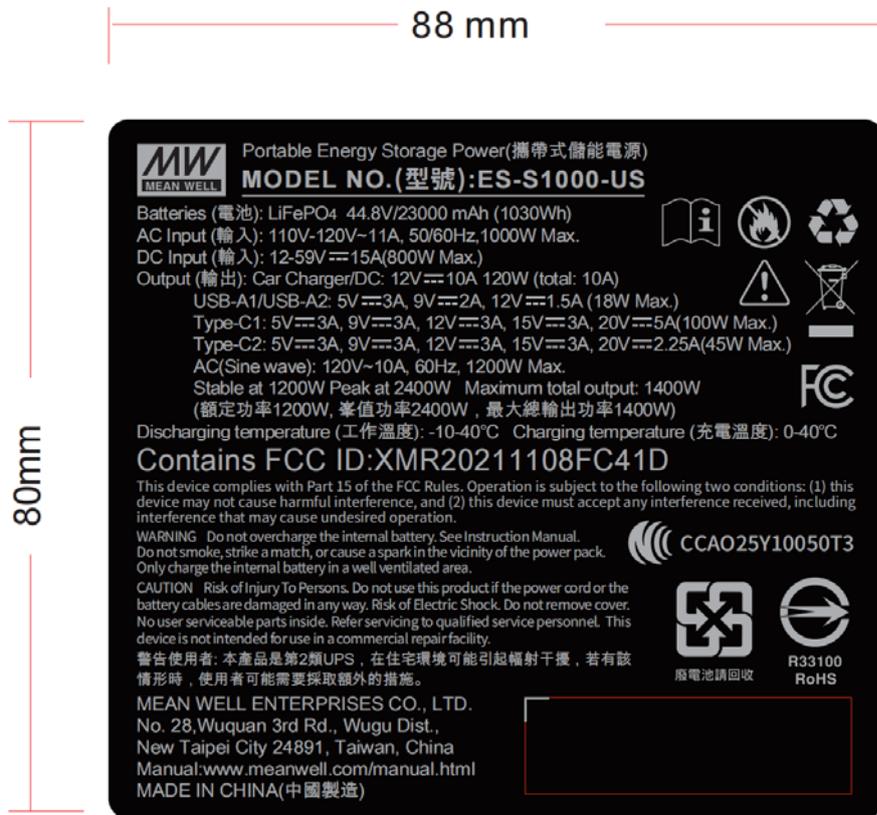


FIGURE 7  
 PORTABLE ENERGY STORAGE POWER (M/N: ES-S1000-US)  
 LABEL



**END OF REPORT**