

Technical Compliance Statement

FCC Test Report

For the following information**Ref. File No.: C1D2504007**

Product : Portable Energy Storage Power
Model Number : ES-S2200-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-F25107**.

Signature



KAMP CHEN / Manager

Date: 2025.08.25

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

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-S2200-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. : C1D2504007
Report No. : ACI-F25107
Date of Test : 2025.08.14-23
Date of Report : 2025.08.25

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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TEST REPORT

Applicant : MEAN WELL Enterprises Co., Ltd.
 Manufacturer : MEAN WELL Enterprises Co., Ltd.
 EUT Description : Portable Energy Storage Power
 (A) Model No. : Refer to Sec.2.1
 (B) Power Supply : AC 110V-120V~15A,50/60Hz,
 DC12V-59V 14A
 (C) Test Voltage : AC 120V/60Hz, DC41V

Rules of Compliance and Measurement Standards:

*47 CFR FCC Part 15 Subpart B
 AND ANSI C63.4-2014*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B (Class A) limits both radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT, which was tested in 3m anechoic chamber is in technically compliance with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

Date of Test : 2025.08.14-23 Date of Report : 2025.08.25

Producer : *Mindy Wang*
 MINDY WANG / Assistant

Review : *Lvy - W*
 Lvy_Lv / Deputy Assistant Manager

 For and on behalf of
 Audix Technology (Shanghai) Co., Ltd.

Signatory : *Kamp Chen*
 Authorized Signature(s) KAMP CHEN / Manager

Name of the Responsible Party : _____

Signature : _____

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
EMISSION			
Powerline Conducted Emission	47 CFR FCC Part 15 Subpart B AND ANSI C63.4-2014	15.107(b) Class A	Pass
			Margin 11.15dB at 0.151MHz
Radiated Emission (30-1000MHz)	47 CFR FCC Part 15 Subpart B AND ANSI C63.4-2014	15.107(b) Class A	Pass
			Margin 1.62dB at 30.378MHz (Vertical, 1.80m/55°) ^{Note}
Radiated Emission (Above 1GHz)	47 CFR FCC Part 15 Subpart B AND ANSI C63.4-2014	15.107(b) Class A	Pass
			Margin 8.78dB at 17895.880MHz
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-S2200-US

Date of receipt : 2025.04.30

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

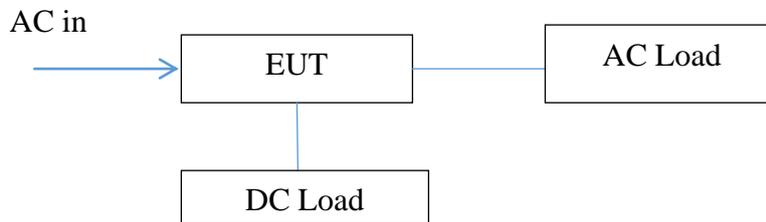
3.1 Test Equipment

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

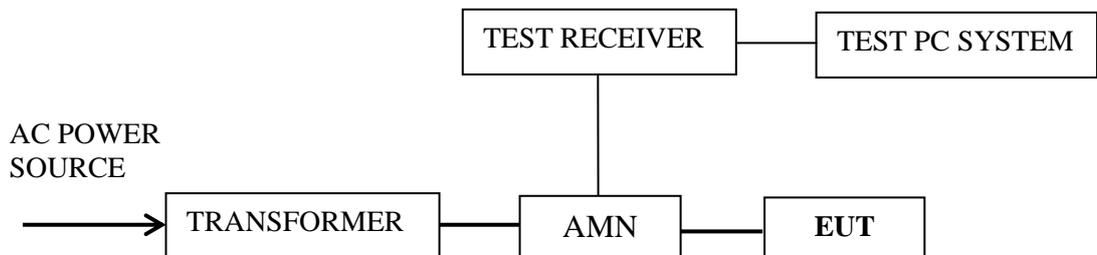
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	AMN	R&S	ESH2-Z5	843890/011	2025.02.22	1 Year
2.	LISN	Kyoritsu	KNW-407	8-1280-5	2025.03.31	1 Year
3.	Fixed Attenuator	SHYL	TTS-1	001	2025.02.22	1 Year
4.	Impedance	/	BNC/50Ohm	002	2025.02.22	1 Year
5.	Test Receiver	R&S	ESCI	101302	2025.02.22	1 Year
6.	CE Cable+Coaxial Switch (0.09-300MHz)	Audix+ANRI TSU	CE Cable+MP59B	CE-SH1-001+6200655085	2025.02.22	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



— : SIGNAL LINE
 — : POWER LINE

3.3 Powerline Conducted Emission Limit

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

NOTE 1 - RF Line Voltage dB (μ V) = 20 lg RF Line Voltage (μ V)
 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.

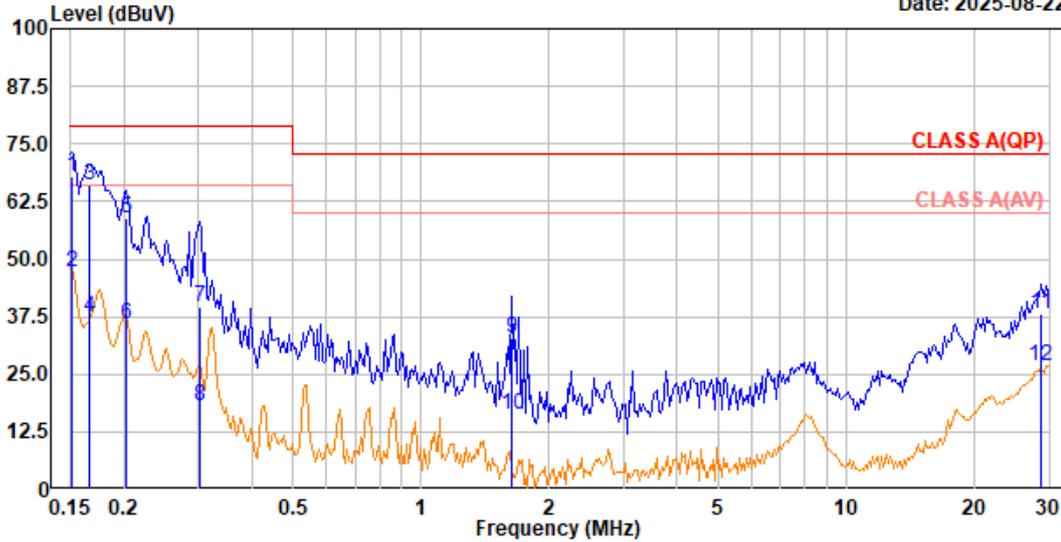
NOTE – “QP” means “Quasi-Peak” values.



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 audixaci@audix.com

File: D:\Test data-2025\X\XIEWEI-04\XIEWEI-04_00039.EMI

Date: 2025-08-22



Site no. : Audix (Shanghai) shielded 1 Data no. : 39
 AMN : ESH2-Z5-2025 Phase : Line
 Limit : CLASS A(QP)
 Env. / Ins. : 20°C 40%RH / ESCI Engineer : Avalon
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-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	0.20	0.11	9.50	58.04	67.85	79.00	11.15	QP
2	0.151	0.20	0.11	9.50	37.23	47.04	66.00	18.96	Average
3	0.166	0.20	0.11	9.50	56.29	66.10	79.00	12.90	QP
4	0.166	0.20	0.11	9.50	27.39	37.20	66.00	28.80	Average
5	0.202	0.20	0.11	9.50	49.16	58.97	79.00	20.03	QP
6	0.202	0.20	0.11	9.50	26.03	35.84	66.00	30.16	Average
7	0.303	0.20	0.11	9.50	29.68	39.49	79.00	39.51	QP
8	0.303	0.20	0.11	9.50	8.29	18.10	66.00	47.90	Average
9	1.630	0.23	0.14	9.50	23.14	33.01	73.00	39.99	QP
10	1.630	0.23	0.14	9.50	6.52	16.39	60.00	43.61	Average
11	28.545	0.59	0.29	9.51	27.81	38.20	73.00	34.80	QP
12	28.545	0.59	0.29	9.51	16.38	26.77	60.00	33.23	Average

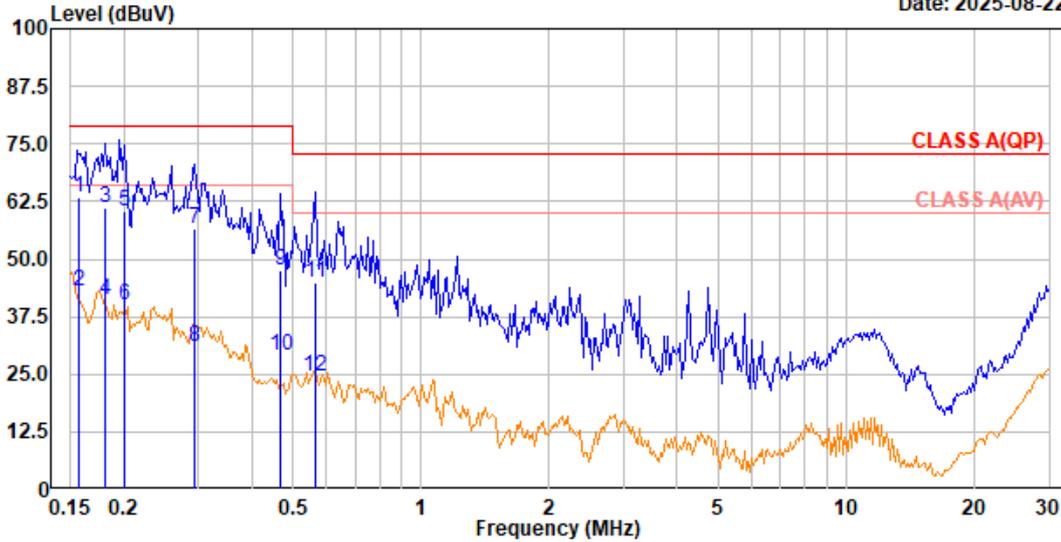
Remark: 1.Emission Level = AMN Factor + Cable loss + Pulse Att. + Reading.



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File: D:\Test data-2025\X\XIEWEI-04\XIEWEI-04_00037.EMI

Date: 2025-08-22



Site no. : Audix (Shanghai) shielded 1 Data no. : 37
 AMN : ESH2-Z5-2025 Phase : Neutral
 Limit : CLASS A(QP)
 Env. / Ins. : 20°C 40%RH / ESCI Engineer : Avalon
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-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	0.156	0.20	0.11	9.50	53.61	63.42	79.00	15.58	QP
2	0.156	0.20	0.11	9.50	33.16	42.97	66.00	23.03	Average
3	0.181	0.20	0.11	9.50	51.38	61.19	79.00	17.81	QP
4	0.181	0.20	0.11	9.50	31.46	41.27	66.00	24.73	Average
5	0.201	0.20	0.11	9.50	50.41	60.22	79.00	18.78	QP
6	0.201	0.20	0.11	9.50	30.16	39.97	66.00	26.03	Average
7	0.295	0.20	0.11	9.50	46.65	56.46	79.00	22.54	QP
8	0.295	0.20	0.11	9.50	21.23	31.04	66.00	34.96	Average
9	0.466	0.20	0.12	9.50	37.83	47.65	79.00	31.35	QP
10	0.466	0.20	0.12	9.50	19.41	29.23	66.00	36.77	Average
11	0.563	0.20	0.12	9.50	35.02	44.84	73.00	28.16	QP
12	0.563	0.20	0.12	9.50	14.78	24.60	60.00	35.40	Average

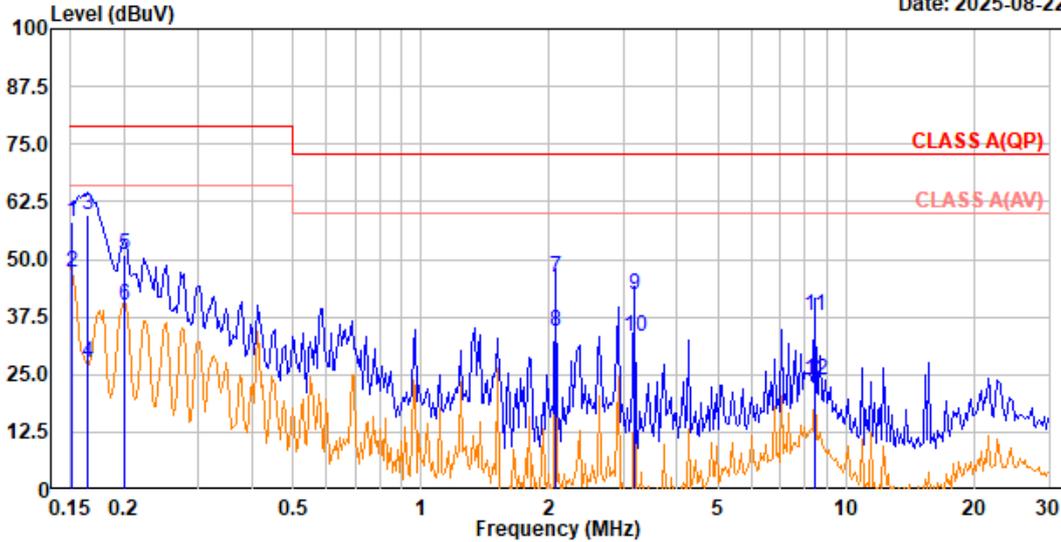
Remark: 1.Emission Level = AMN Factor + Cable loss + Pulse Att. + Reading.



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File: D:\Test data-2025\X\XIEWEI-04\XIEWEI-04_00041.EMI

Date: 2025-08-22



Site no. : Audix (Shanghai) shielded 1 Data no. : 41
 AMN : ESH2-Z5-2025 Phase : Line
 Limit : CLASS A(QP)
 Env. / Ins. : 20°C 40%RH / ESCI Engineer : Neil
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-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	0.20	0.11	9.50	48.18	57.99	79.00	21.01	QP
2	0.151	0.20	0.11	9.50	37.32	47.13	66.00	18.87	Average
3	0.164	0.20	0.11	9.50	49.83	59.64	79.00	19.36	QP
4	0.164	0.20	0.11	9.50	17.78	27.59	66.00	38.41	Average
5	0.200	0.20	0.11	9.50	40.99	50.80	79.00	28.20	QP
6	0.200	0.20	0.11	9.50	30.30	40.11	66.00	25.89	Average
7	2.069	0.30	0.14	9.50	36.17	46.11	73.00	26.89	QP
8	2.069	0.30	0.14	9.50	24.52	34.46	60.00	25.54	Average
9	3.173	0.30	0.14	9.50	32.36	42.30	73.00	30.70	QP
10	3.173	0.30	0.14	9.50	23.34	33.28	60.00	26.72	Average
11	8.405	0.25	0.19	9.50	27.73	37.67	73.00	35.33	QP
12	8.405	0.25	0.19	9.50	13.67	23.61	60.00	36.39	Average

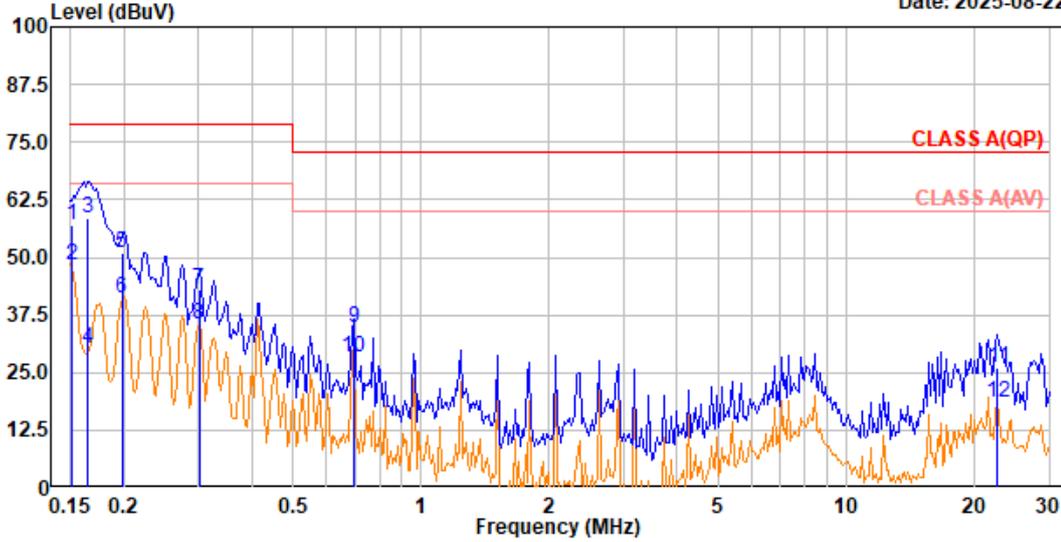
Remark: 1.Emission Level = AMN Factor + Cable loss + Pulse Att. + Reading.



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File: D:\Test data-2025\X\XIEWEI-04\XIEWEI-04_00043.EMI

Date: 2025-08-22



Site no. : Audix (Shanghai) shielded 1 Data no. : 43
 AMN : ESH2-Z5-2025 Phase : Neutral
 Limit : CLASS A(QP)
 Env. / Ins. : 20°C 40%RH / ESCI Engineer : Neil
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-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	0.20	0.11	9.50	47.29	57.10	79.00	21.90	QP
2	0.151	0.20	0.11	9.50	38.63	48.44	66.00	17.56	Average
3	0.164	0.20	0.11	9.50	48.71	58.52	79.00	20.48	QP
4	0.164	0.20	0.11	9.50	20.47	30.28	66.00	35.72	Average
5	0.198	0.20	0.11	9.50	41.27	51.08	79.00	27.92	QP
6	0.198	0.20	0.11	9.50	31.23	41.04	66.00	24.96	Average
7	0.301	0.20	0.11	9.50	33.25	43.06	79.00	35.94	QP
8	0.301	0.20	0.11	9.50	25.83	35.64	66.00	30.36	Average
9	0.693	0.20	0.13	9.50	24.72	34.55	73.00	38.45	QP
10	0.693	0.20	0.13	9.50	18.57	28.40	60.00	31.60	Average
11	22.711	0.50	0.27	9.51	15.84	26.12	73.00	46.88	QP
12	22.711	0.50	0.27	9.51	8.28	18.56	60.00	41.44	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:

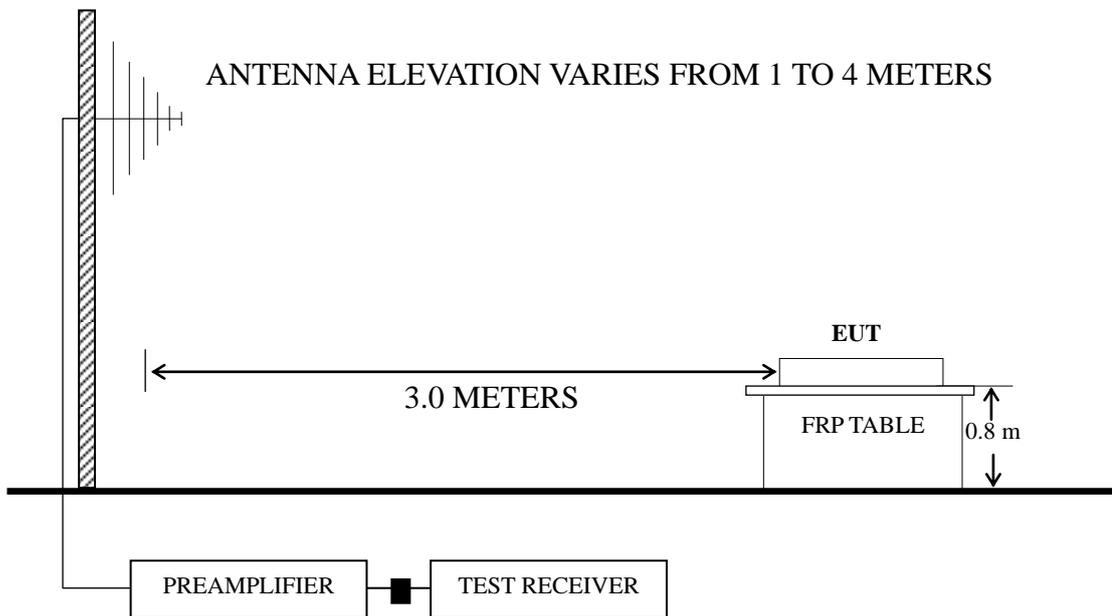
Below 1GHz

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	2025.07.07	1 Year
4.	Pre-Amplifier	Chengyidianzi	EMC9135	980373	2025.07.07	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	2025.08.06	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	2025.07.07	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)				

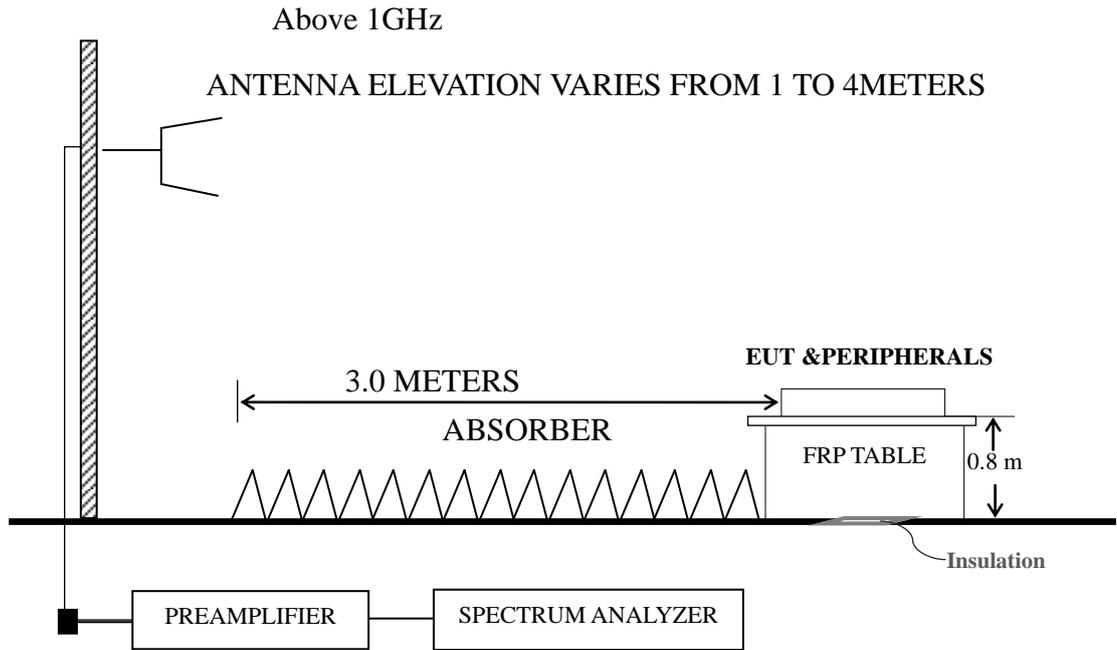
Above 1GHz

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	2025.01.15	1 Year
2.	Horn Antenna	ETS	3115	00062960	2025.04.25	1 Year
3.	Preamplifier	Agilent	8447D	2944A10548	2025.02.22	1 Year
4.	Preamplifier	HP	8449B	3008A00864	2025.02.22	1 Year
5.	EXA Signal Analyzer	Agilent	N9010A	MY52221182	2025.07.03	1 Year
6.	Test Receiver	R&S	ESCI	101303	2025.02.22	1 Year
7.	RE Cable-1m+ Coaxial Switch	HARBOUR+ ANRITSU	RE Cable-1m +MP59B	RE-1m-00x+ 6200655086	2025.02.22	1 Year
8.	RE Cable-10m+15m	SCHAFFNER	RG 212U-MIL C 17+N1K50-EW063 0-N1K50-15m-1	RE-10m-001+ RE-15m-002	2025.02.22	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 1	AC input charge mode, keep power station being charged.	P29-P30

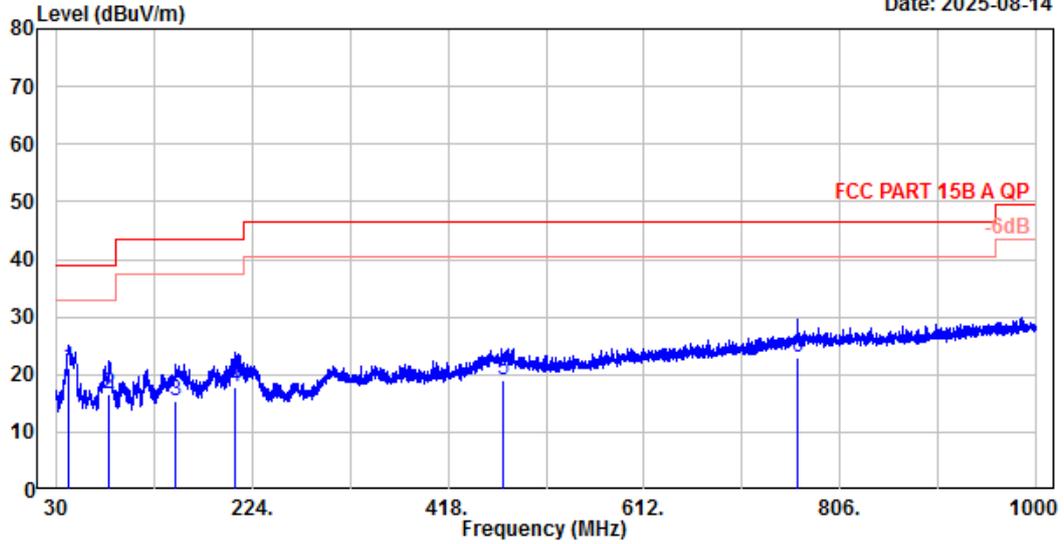
NOTE – All reading are Quasi-Peak values.



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File: E:\Test DATA\2025\Report04\IC1D250400711_00002.EMI

Date: 2025-08-14



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. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 120Vac/60Hz
 Test Mode : Mode 1
 Memo :
 Ant. pol.: Horizontal Data NO.:2
 Engineer : ChuHongwei

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
42.154	15.51	0.75	42.16	37.30	21.12	39.00	17.88	QP	342	214
81.604	15.21	0.96	37.57	36.99	16.75	39.00	22.25	QP	366	166
147.952	18.56	1.24	32.02	36.52	15.30	43.50	28.20	QP	381	185
206.734	16.70	1.45	36.10	36.33	17.92	43.50	25.58	QP	312	193
472.126	23.27	2.19	30.04	36.42	19.08	46.40	27.32	QP	385	185
764.484	28.14	2.86	28.35	36.44	22.91	46.40	23.49	QP	391	236

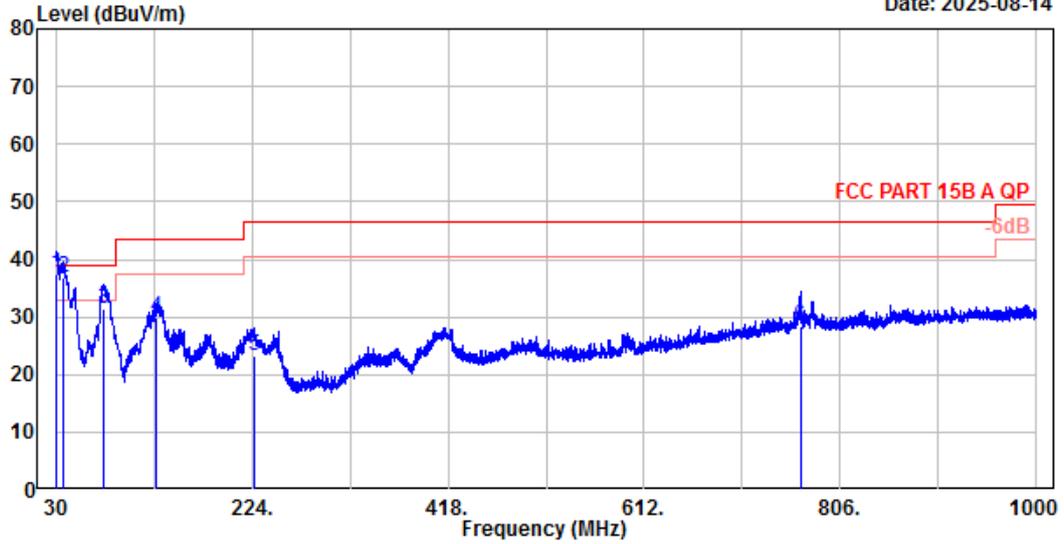
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



Site NO. : 10M Chamber Ant. pol.: Vertical Data NO.:1
 Instrument 1 : Receiver ESCI (352)
 Instrument 2 : Preamplifier EMC9135(373&374)|400
 Dis. / Ant. : 9168-839-2505 Engineer : ChuHongwei
 Limit : FCC PART 15B A QP
 Env. / Ins. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 120Vac/60Hz
 Test Mode : Mode 1
 Memo :

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
30.502	18.62	0.70	54.58	36.60	37.30	39.00	1.70	QP	113	220
36.761	18.87	0.76	53.65	36.59	36.69	39.00	2.31	QP	128	173
76.164	15.81	1.07	51.16	36.51	31.53	39.00	7.47	QP	164	192
129.114	17.78	1.40	46.85	36.11	29.92	43.50	13.58	QP	154	190
225.114	16.75	1.84	40.11	35.43	23.27	46.40	23.13	QP	171	184
766.820	28.27	3.81	32.11	35.87	28.32	46.40	18.08	QP	136	225

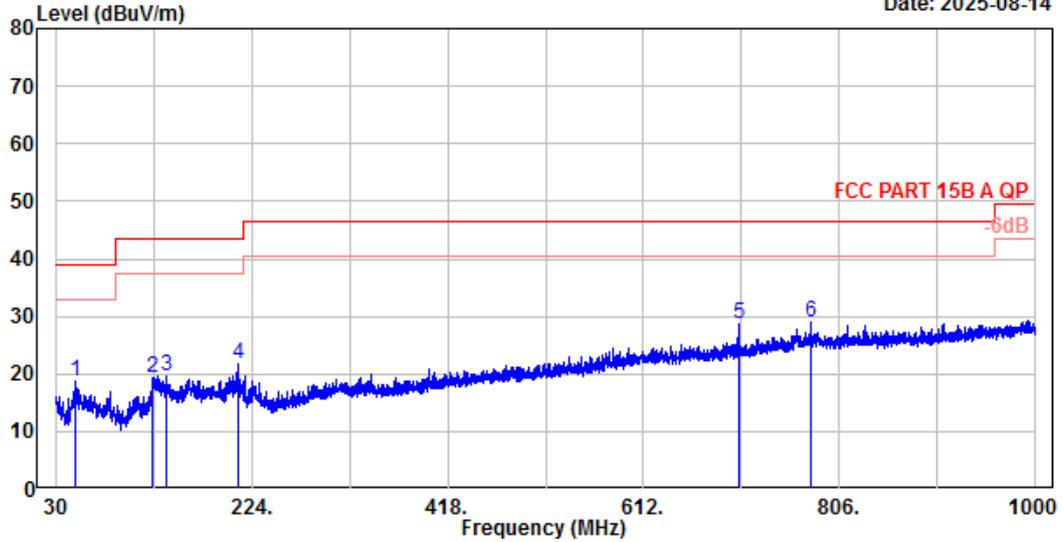
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



Site NO. : 10M Chamber Ant. pol.: Horizontal Data NO.:8
 Instrument 1 : Receiver ESCI (352)
 Instrument 2 : Preamplifier EMC9135(373&374)|400
 Dis. / Ant. : 9168-703-2410 Engineer : ChuHongwei
 Limit : FCC PART 15B A QP
 Env. / Ins. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 42Vdc
 Test Mode : Mode 2
 Memo :

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
48.818	18.64	0.83	36.44	37.25	18.66	39.00	20.34	QP	400	160
126.030	17.56	1.16	37.40	36.69	19.43	43.50	24.07	QP	396	278
139.222	17.97	1.21	37.17	36.59	19.76	43.50	23.74	QP	385	159
210.032	16.80	1.46	39.67	36.30	21.63	43.50	21.87	QP	394	102
706.478	27.04	2.73	35.49	36.49	28.77	46.40	17.63	QP	390	258
777.870	28.28	2.89	34.36	36.42	29.11	46.40	17.29	QP	380	236

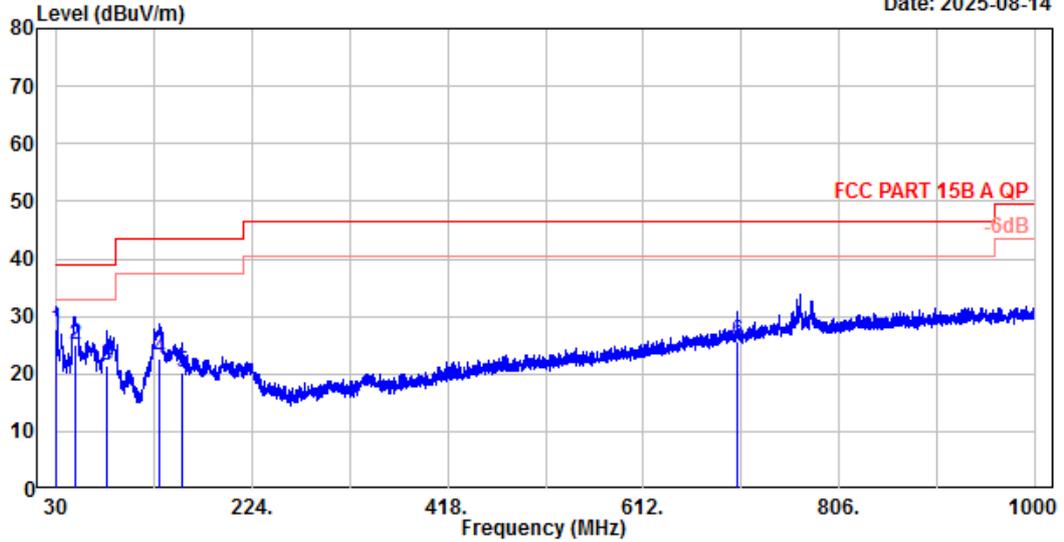
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



Site NO. : 10M Chamber Ant. pol.: Vertical Data NO.:7
 Instrument 1 : Receiver ESCI (352)
 Instrument 2 : Preamplifier EMC9135(373&374)|400
 Dis. / Ant. : 9168-839-2505 Engineer : ChuHongwei
 Limit : FCC PART 15B A QP
 Env. / Ins. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 42Vdc
 Test Mode : Mode 2
 Memo :

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	18.60	0.70	45.09	36.60	27.79	39.00	11.21	QP	100	324
48.624	19.60	0.86	41.14	36.56	25.04	39.00	13.96	QP	105	305
79.858	14.74	1.10	42.02	36.50	21.36	39.00	17.64	QP	108	278
132.432	18.12	1.41	39.12	36.08	22.57	43.50	20.93	QP	103	104
154.354	19.21	1.52	35.36	35.87	20.22	43.50	23.28	QP	110	258
704.926	27.12	3.61	30.77	35.80	25.70	46.40	20.70	QP	128	236

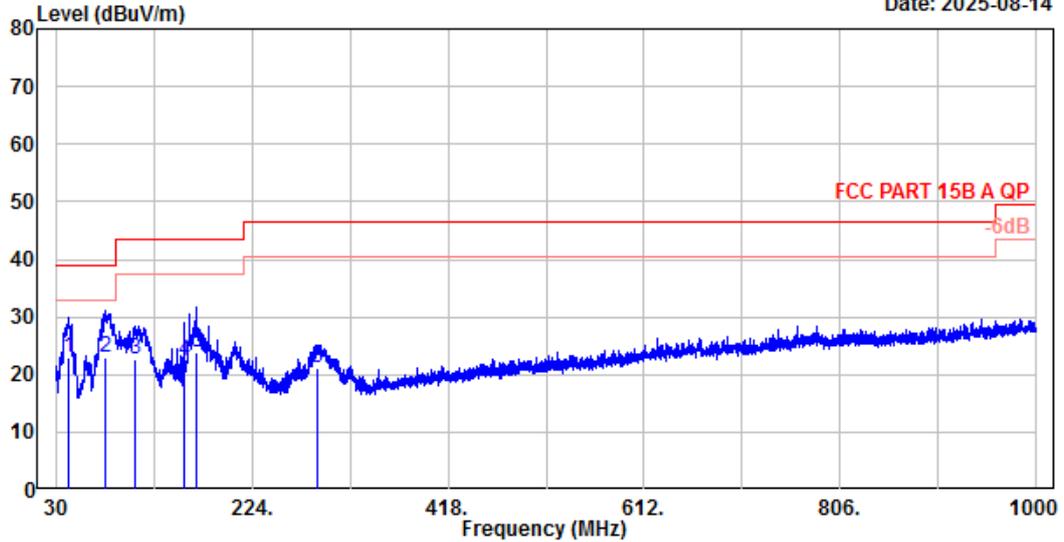
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



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. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating :
 Test Mode : Mode 3
 Memo :
 Ant. pol.: Horizontal Data NO.:6
 Engineer : ChuHongwei

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
41.640	15.27	0.75	44.22	37.31	22.93	39.00	16.07	QP	400	183
77.530	16.04	0.94	43.01	37.02	22.97	39.00	16.03	QP	390	304
107.600	16.92	1.10	41.35	36.84	22.53	43.50	20.97	QP	395	200
156.226	19.01	1.27	38.55	36.49	22.34	43.50	21.16	QP	384	286
168.128	19.28	1.32	39.56	36.46	23.70	43.50	19.80	QP	392	235
288.796	19.24	1.69	36.59	36.44	21.08	46.40	25.32	QP	375	102

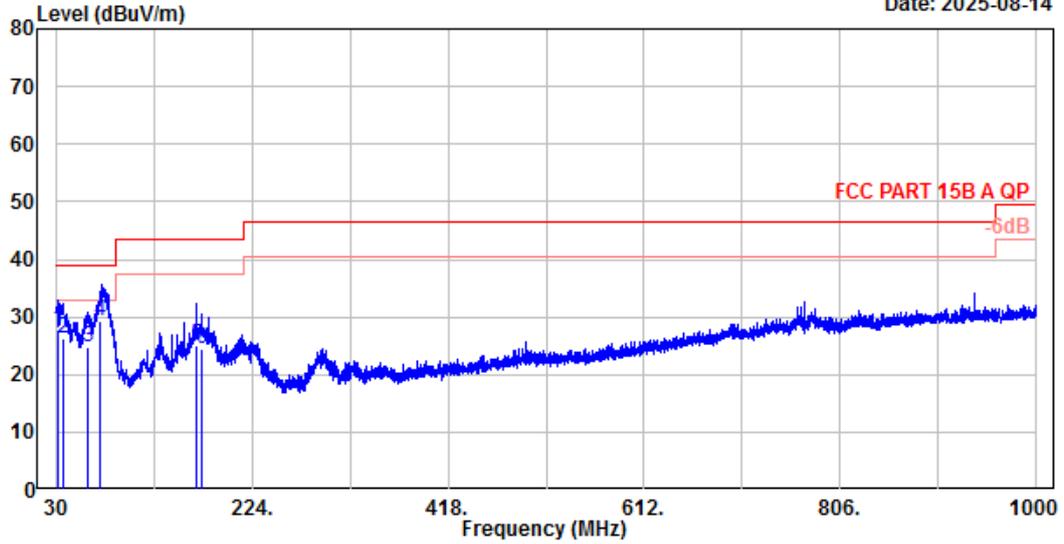
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



Site NO. : 10M Chamber Ant. pol.: Vertical Data NO.:5
 Instrument 1 : Receiver ESCI (352)
 Instrument 2 : Preamplifier EMC9135(373&374)|400
 Dis. / Ant. : 9168-839-2505 Engineer : ChuHongwei
 Limit : FCC PART 15B A QP
 Env. / Ins. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating :
 Test Mode : Mode 3
 Memo :

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
31.358	18.65	0.71	45.10	36.60	27.86	39.00	11.14	QP	100	326
36.790	18.87	0.76	43.20	36.59	26.24	39.00	12.76	QP	105	308
61.816	18.91	0.96	41.40	36.54	24.73	39.00	14.27	QP	108	126
73.302	16.64	1.05	48.21	36.51	29.39	39.00	9.61	QP	110	104
168.128	18.69	1.58	40.68	35.79	25.16	43.50	18.34	QP	112	286
174.142	18.19	1.61	40.43	35.76	24.47	43.50	19.03	QP	136	235

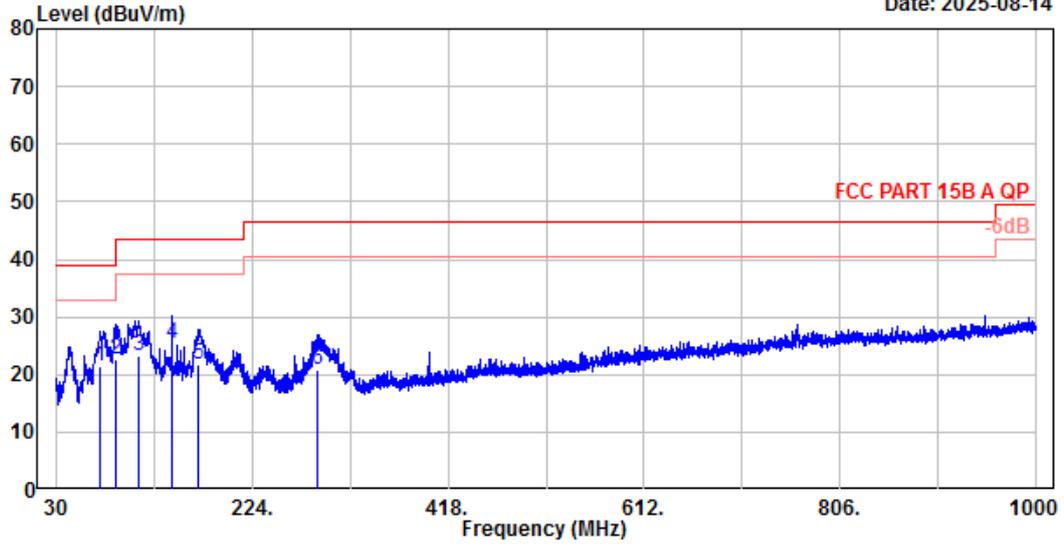
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



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. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 120Vac/60Hz
 Test Mode : Mode 4
 Memo :
 Ant. pol.: Horizontal Data NO.:4
 Engineer : ChuHongwei

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
72.874	17.25	0.92	40.39	37.06	21.50	39.00	17.50	QP	400	83
88.394	14.39	1.00	44.16	36.96	22.59	43.50	20.91	QP	396	105
112.062	17.34	1.11	41.56	36.80	23.21	43.50	20.29	QP	385	250
143.867	18.27	1.23	42.37	36.55	25.32	43.50	18.18	QP	378	289
170.650	19.25	1.32	37.76	36.46	21.87	43.50	21.63	QP	386	146
288.020	19.22	1.69	36.28	36.43	20.76	46.40	25.64	QP	354	235

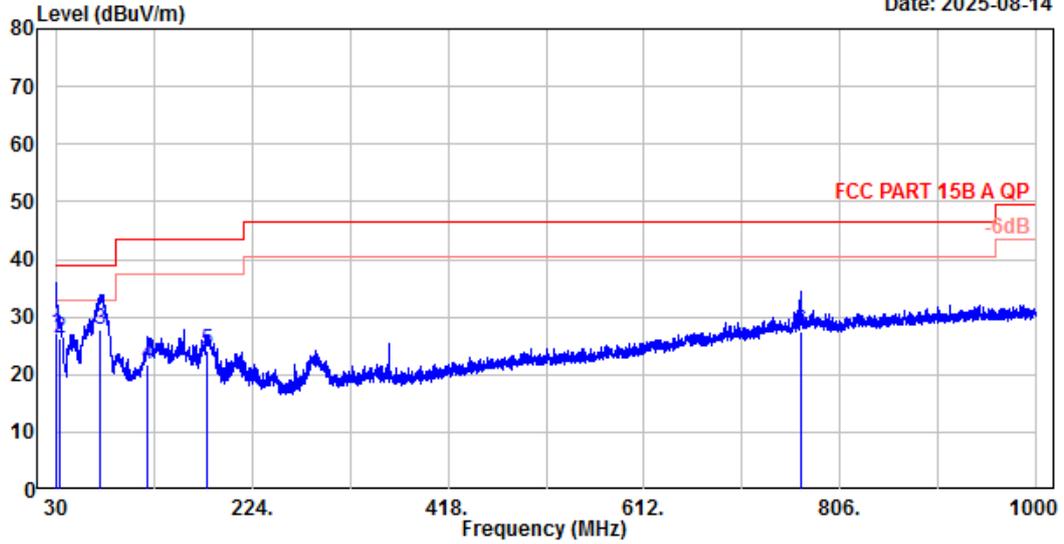
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



Site NO. : 10M Chamber Ant. pol.: Vertical Data NO.:3
 Instrument 1 : Receiver ESCI (352)
 Instrument 2 : Preamplifier EMC9135(373&374)|400
 Dis. / Ant. : 9168-839-2505 Engineer : ChuHongwei
 Limit : FCC PART 15B A QP
 Env. / Ins. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 120Vac/60Hz
 Test Mode : Mode 4
 Memo :

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
30.334	18.61	0.70	44.46	36.60	27.17	39.00	11.83	QP	100	305
33.492	18.74	0.73	43.31	36.59	26.19	39.00	12.81	QP	105	174
73.456	16.60	1.05	46.76	36.51	27.90	39.00	11.10	QP	110	186
120.404	16.65	1.36	39.88	36.20	21.69	43.50	21.81	QP	114	105
179.861	17.61	1.64	40.74	35.72	24.27	43.50	19.23	QP	129	214
767.394	28.27	3.81	31.14	35.87	27.35	46.40	19.05	QP	108	250

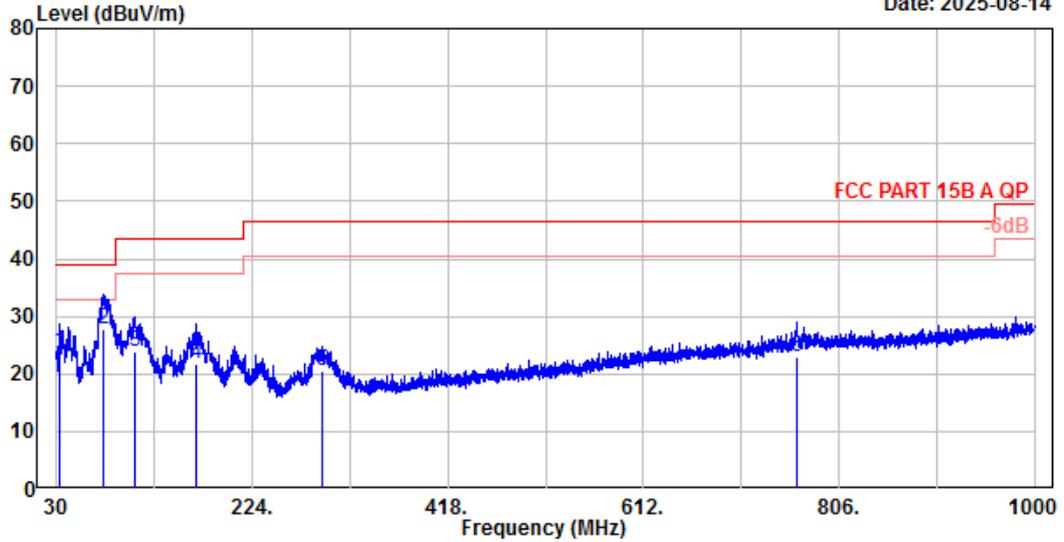
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



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. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 42Vdc
 Test Mode : Mode 5
 Memo :
 Ant. pol.: Horizontal Data NO.:10
 Engineer : ChuHongwei

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
33.492	18.01	0.66	42.41	37.37	23.71	39.00	15.29	QP	400	288
77.336	16.09	0.94	47.75	37.02	27.76	39.00	11.24	QP	396	301
107.794	16.95	1.10	42.74	36.84	23.95	43.50	19.55	QP	398	250
168.128	19.28	1.32	37.57	36.46	21.71	43.50	21.79	QP	380	149
294.228	19.42	1.70	36.02	36.47	20.67	46.40	25.73	QP	376	108
764.678	28.15	2.86	28.42	36.44	22.99	46.40	23.41	QP	389	238

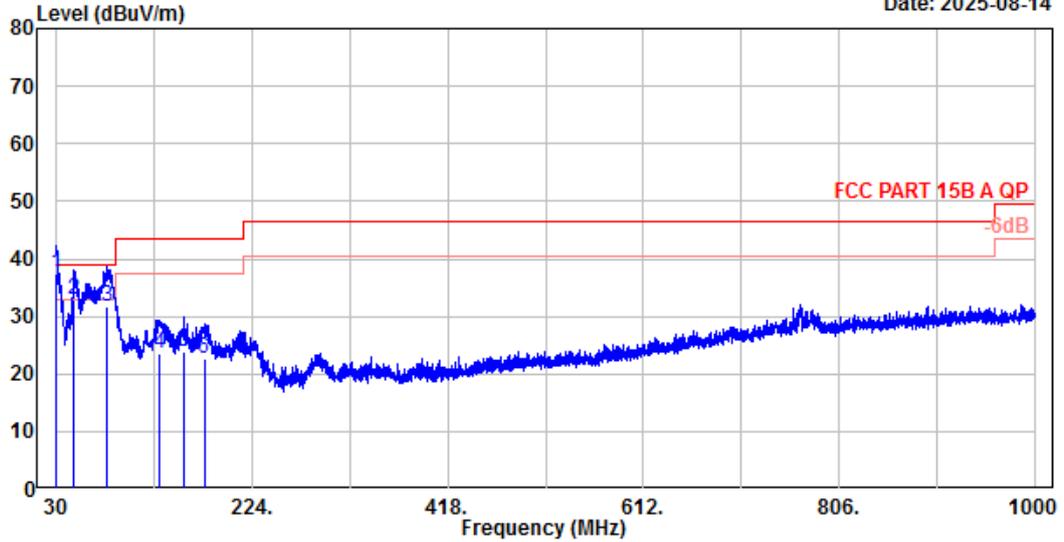
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2025-08-14



Site NO. : 10M Chamber
 Instrument 1 : Receiver ESCI (352)
 Instrument 2 : Preamplifier EMC9135(373&374)|400
 Dis. / Ant. : 9168-839-2505
 Limit : FCC PART 15B A QP
 Env. / Ins. : 23.1°C&45%
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 42Vdc
 Test Mode : Mode 5
 Memo :
 Ant. pol.: Vertical Data NO.:9
 Engineer : ChuHongwei

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
30.378	18.62	0.70	54.66	36.60	37.38	39.00	1.62	QP	100	308
47.654	19.54	0.85	49.16	36.56	32.99	39.00	6.01	QP	108	176
80.440	14.65	1.10	52.51	36.50	31.76	39.00	7.24	QP	103	108
131.656	18.05	1.41	40.05	36.08	23.43	43.50	20.07	QP	120	210
156.294	19.17	1.52	39.12	35.86	23.95	43.50	19.55	QP	114	256
176.470	17.95	1.62	38.84	35.74	22.67	43.50	20.83	QP	106	238

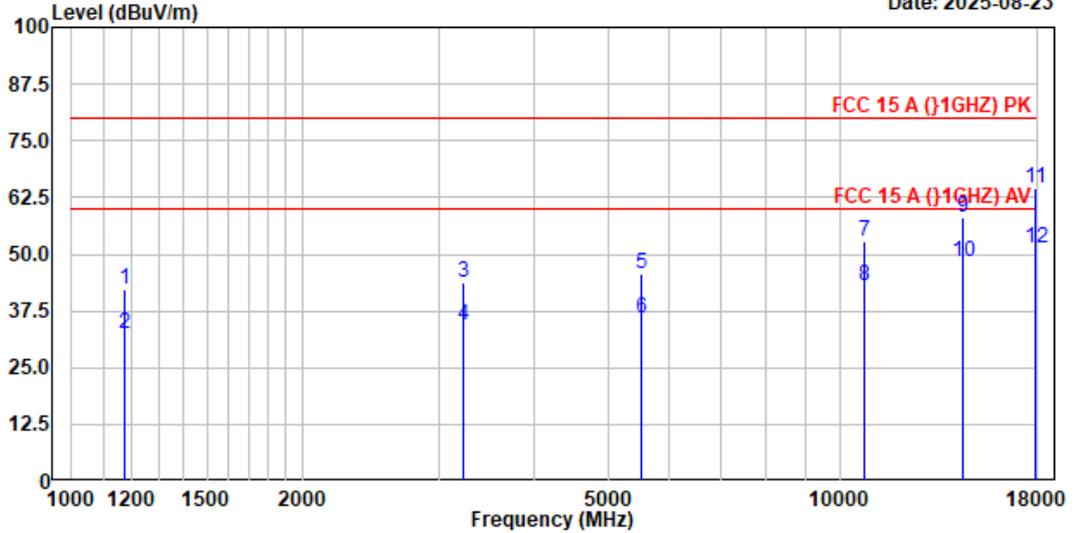
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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 audixaci@audix.com

File: E:\2025data\X\XIEWEI\XIEWEI_00008.EMI

Date: 2025-08-23



Site no. : Audix (Shanghai) Chamber 3 Data no. : 8
 Dis. / Ant. : 3m / 3115-ACW-2024 Ant. Pol. : Horizontal
 Limit : FCC 15 A (}1GHZ) PK
 Env. / Ins. : 22'C 49%RH / FPL1026 Engineer : Avalon
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 120V/60Hz
 Test Mode : Mode 1

	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	1172.125	25.00	1.93	37.16	52.49	42.26	80.00	37.74	Peak
2	1172.125	25.00	1.93	37.16	42.75	32.52	60.00	27.48	Average
3	3233.375	31.33	3.20	35.58	44.94	43.89	80.00	36.11	Peak
4	3233.375	31.33	3.20	35.58	35.39	34.34	60.00	25.66	Average
5	5496.500	34.40	4.43	36.66	43.61	45.78	80.00	34.22	Peak
6	5496.500	34.40	4.43	36.66	33.56	35.73	60.00	24.27	Average
7	10719.750	39.70	5.87	36.85	44.01	52.73	80.00	27.27	Peak
8	10719.750	39.70	5.87	36.85	34.40	43.12	60.00	16.88	Average
9	14453.380	43.15	7.11	35.48	43.26	58.04	80.00	21.96	Peak
10	14453.380	43.15	7.11	35.48	33.43	48.21	60.00	11.79	Average
11	17895.880	47.37	8.02	34.44	43.67	64.62	80.00	15.38	Peak
12	17895.880	47.37	8.02	34.44	30.27	51.22	60.00	8.78	Average

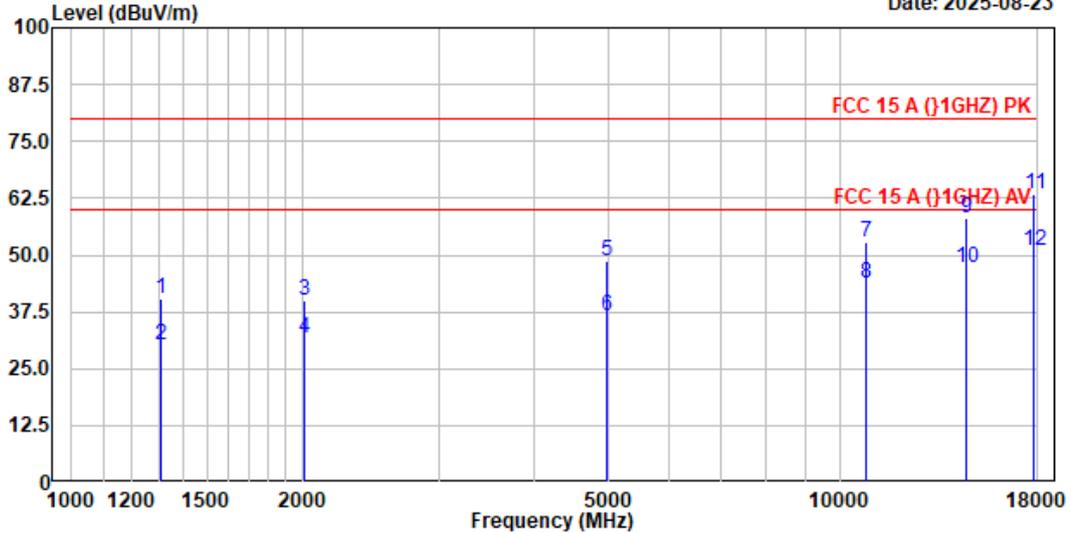
Remarks: 1.Emission Level = Antenna Factor + Cable Loss - Preamp Factor + Reading.



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File: E:\2025data\X\XIEWEI\XIEWEI_00007.EMI

Date: 2025-08-23



Site no. : Audix (Shanghai) Chamber 3 Data no. : 7
 Dis. / Ant. : 3m / 3115-ACW-2024 Ant. Pol. : Vertical
 Limit : FCC 15 A (}1GHZ) PK
 Env. / Ins. : 22'C 49%RH / FPL1026 Engineer : Avalon
 EUT : Portable Energy Storage Power
 M/N : ES-S2200-US
 Power Rating : 120V/60Hz
 Test Mode : Mode 1

	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	1310.250	25.36	2.03	37.07	50.21	40.53	80.00	39.47	Peak
2	1310.250	25.36	2.03	37.07	39.83	30.15	60.00	29.85	Average
3	2013.625	28.17	2.49	36.68	46.09	40.07	80.00	39.93	Peak
4	2013.625	28.17	2.49	36.68	37.61	31.59	60.00	28.41	Average
5	4958.875	33.74	4.18	36.49	47.19	48.62	80.00	31.38	Peak
6	4958.875	33.74	4.18	36.49	35.22	36.65	60.00	23.35	Average
7	10811.130	39.70	5.93	36.84	43.96	52.75	80.00	27.25	Peak
8	10811.130	39.70	5.93	36.84	35.00	43.79	60.00	16.21	Average
9	14553.250	43.09	7.11	35.41	43.32	58.11	80.00	21.89	Peak
10	14553.250	43.09	7.11	35.41	32.54	47.33	60.00	12.67	Average
11	17844.880	46.96	8.01	34.46	43.06	63.57	80.00	16.43	Peak
12	17844.880	46.96	8.01	34.46	30.51	51.02	60.00	8.98	Average

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

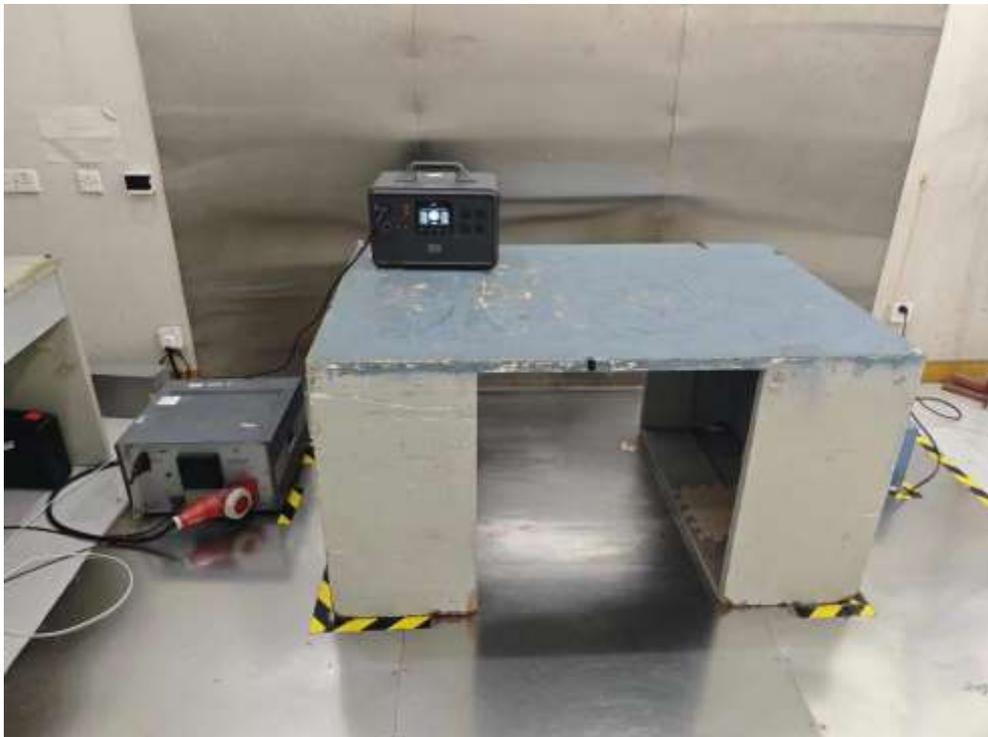
Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Radiated Emission	30MHz~300MHz, Horizontal	±5.04 dB
	30MHz~300MHz, Vertical	±4.36 dB
	300MHz~1000MHz, Horizontal	±5.00 dB
	300MHz~1000MHz, Vertical	±3.86 dB
	1GHz~6GHz	±5.10dB

6 PHOTOGRAPHS

6.1 Conducted Emission Test



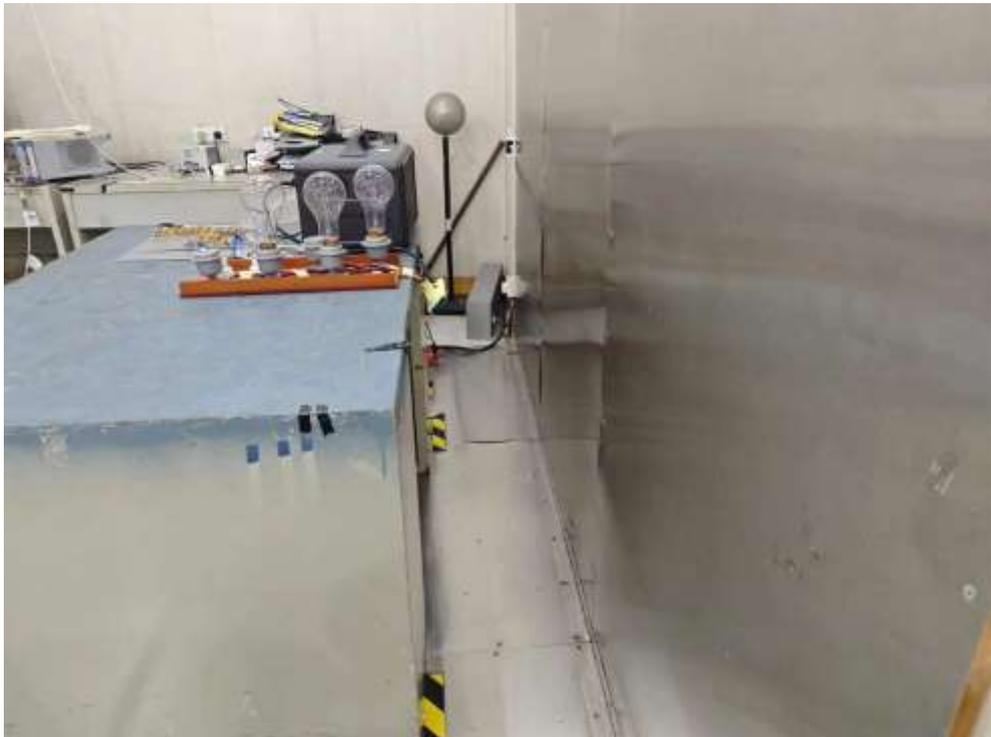
FRONT VIEW



BACK VIEW



FRONT VIEW



BACK VIEW

6.2 Radiated Emission Test













APPENDIX

(Photos of EUT)

FIGURE 1
PORTABLE ENERGY STORAGE POWER (M/N: ES-S2200-US)
OUT-1



FIGURE 2
PORTABLE ENERGY STORAGE POWER (M/N: ES-S2200-US)
OUT-2



FIGURE 3
PORTABLE ENERGY STORAGE POWER (M/N: ES-S2200-US)
OUT-3



FIGURE 4
PORTABLE ENERGY STORAGE POWER (M/N: ES-S2200-US)
OUT-4



FIGURE 5
PORTABLE ENERGY STORAGE POWER (M/N: ES-S2200-US)
OUT-5



FIGURE 6
PORTABLE ENERGY STORAGE POWER (M/N: ES-S2200-US)
OUT-6



FIGURE 7
 PORTABLE ENERGY STORAGE POWER (M/N: ES-S2200-US)
 LABEL



-END OF REPORT-