Prüfbericht-Nr.: *Test report no.*:	**CN24UXHO 001**	**Auftrags-Nr.:** *Order no.*:	**169807016**	Seite 1 von 38 *Page 1 of 38*
Kunden-Referenz-Nr.: *Client reference no.*:	N/A	**Auftragsdatum:** *Order date:*	2024-04-12	
Auftraggeber: *Client*:	**Jackery Technology GmbH** Adlerstr. 72, 40211 Düsseldorf, Germany			
Prüfgegenstand: *Test item*:	Portable power station (Jackery Explorer 1000)			
Bezeichnung / Typ-Nr.: *Identification / Type no.*:	JE-1000D			
Auftrags-Inhalt: *Order content*:	RED Test Report			
Prüfgrundlage: *Test specification*:	EN 300 328 V2.2.2 EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN 55032:2015+A11:2020 EN 55035:2017+A11:2020 EN IEC 62040-2: 2018		EN IEC 62311: 2020 EN 62368-1:2014+A11:2017 EN IEC 62040-1:2019+A11:2021	
Wareneingangsdatum: *Date of sample receipt*:	2024-02-21			
Prüfmuster-Nr.: *Test sample no:*	A003689876-001			
Prüfzeitraum: *Testing period*:	2024-04-12 - 2024-04-30			
Ort der Prüfung: *Place of testing*:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result**:	Pass			

geprüft von: tested by:	X Jonathan Li Signed by: Jonathan Li	**genehmigt von:** *authorized by*:	X Bell Hu Signed by: Bell Hu
Datum: *Date:* 2024-07-18		**Ausstellungsdatum:** *Issue date:* 2024-07-18	
Stellung / Position:	Sachverständige(r)/Expert	**Stellung** / Position:	Sachverständige(r)/Expert

Sonstiges / *Other*: This report is for article 3.2 Radio Spectrum, article 3.1a Health and 3.1b EMC requirements.
Refer to report CN242MCV 001 for details of Article 3.1a Electrical Safety requirements.

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery*: Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*P(ass) = passed a.m. test specification(s)*	*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

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Test Summary

5.1.1 HARMONIC CURRENT EMISSIONS ON AC MAINS
RESULT: Pass

5.1.2 VOLTAGE FLUCTUATIONS AND FLICKER ON AC MAINS
RESULT: Pass

5.1.3 CONDUCTED EMISSION ON AC MAINS
RESULT: Pass

5.1.4 RADIATED EMISSION
RESULT: Pass

5.1.5 CONDUCTED EMISSION ON DC PORT
RESULT: Not applicable

5.2.1 RADIO FREQUENCY ELECTROMAGNETIC FIELDS (RS)
RESULT: Pass

5.2.2 RADIO FREQUENCY CONTINUOUS CONDUCTED (CS)
RESULT: Pass

5.2.3 ELECTROSTATIC DISCHARGE (ESD)
RESULT: Pass

5.2.4 ELECTRICAL FAST TRANSIENTS (EFT)
RESULT: Pass

5.2.5 SURGE
RESULT: Pass

5.2.6 LOW-FREQUENCY SIGNALS
RESULT: Pass

5.2.7 VOLTAGE DIPS AND INTERRUPTIONS
RESULT: Pass

5.2.8 POWER-FREQUENCY MAGNETIC FIELD
RESULT: Pass
RESULT: Pass

5.3.1 RADIATED SPURIOUS EMISSIONS (EN 300 328)
RESULT: Pass

5.4.1 ELECTROMAGNETIC FIELDS
RESULT: Pass

5.4.2 RF EXPOSURE REQUIREMENT (1999/519/EC)

5.4.3 TEST RESULT

Contents

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of EMC requirement and Radiated Spurious Emission.

2 Test Sites

2.1 Test Facilities

Test location1: TÜV Rheinland (Shenzhen) Co., Ltd.

No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen 518110, Guangdong, China

CNAS accreditation certification number: L3080

Test location2: Shenzhen Nore Testing Center Co., Ltd.

South, No. 1, Building 10, Maqueling Industrial Zone, Nanshan,Shenzhen, Guangdong, 518057, China

CNAS accreditation certification number: L11038

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.-Radio test

Unwanted Emission Testing (TS8996)					
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Cal. until**
Signal Generator	R&S	SMB100A	180840	2023-07-26	2024-07-25
Wideband Radio Communication Tester	R&S	CMW500	165339	2023-07-26	2024-07-25
Signal Analyzer	R&S	FSV 40	101440	2023-08-06	2024-08-05
System Controller Interface	R&S	SCI-100	S10010036	N/A	N/A
OSP	R&S	OSP 120	102041	N/A	N/A
OSP	R&S	OSP 150	101385	2023-11-14	2024-11-13
Pre-amplifier	R&S	SCU08F1	08320030	2023-07-26	2024-07-25
Amplifier	R&S	SCU-18F	180079	2023-07-26	2024-07-25
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	192	2022-08-07	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218719	2022-08-07	2024-08-06
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18312	2022-08-07	2024-08-06
Biconical Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VUBA 9117	357	2021-08-02	2024-08-02
Double Ridged Broadband Horn Antenna (1 – 18 GHz)	Schwarzbeck	BBHA 9120 D	01760	2021-07-30	2024-07-30

Test software	R&S	EMC32 (V10.50.40)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NW9P2	N/A	N/A
3m Fully Anechoic Chamber	Albatross	FAC-3m	APC17151-FAC	2021-06-22	2024-06-22

TÜV Rheinland (Shenzhen) Co., Ltd.-EMC Test

Conducted Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR3	102428	2024-07-30
Artificial Mains Network	R&S	ENV216	102333	2024-07-31
Artificial Mains Network	R&S	ENV432	101411	2024-07-31
Impedance Stabilisation Network	R&S	ENY81	100323	2024-07-31
Impedance Stabilisation Network	R&S	ENY81-CA6	101810	2024-07-31
Current Probe	R&S	EZ-17	101247	2024-07-30
Voltage Probe	R&S	ESH2-Z3	100557	2024-07-31
Attenuator of Voltage probe	R&S	ESH2-Z31	100300	2024-07-31
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Harmonics & Flicker				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
5KVA AC POWER SOURCE	California Instruments	5001iX-CTS-400-413	1827A00145	2024-07-30
Harmonics/voltage fluctuation and flicker test system	California Instruments	100-CTS-230	1827A00144	2024-07-31
Harmonics/voltage fluctuation and flicker test system test software	California Instruments	CTS 4 (Ver.4.29.0)	N/A	N/A
Radiated Emission (3m chamber)				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
3m SAC	ETS-Lindgren	SAC3	CT001632-Q1362	2024-04-26
EMI Test Receiver	R&S	ESR7	102111	2024-11-09
Horn Antenna	R&S	HF907	102706	2024-08-03
Preamplifier (1-18GHz)	FIT	SCU-18F	180077	2024-07-31
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	2024-08-02
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2024-08-19
EMC32 test software	R&S	EMC32(Ver.10.60.20)	N/A	N/A
Electrostatic Discharge (ESD)				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
ESD Tester	TESEQ	NSG-437	1282	2024-07-30
Radio Frequency Electromagnetic Field (RS)				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
3m FAC	ETS-Lindgren	FAC3	CT001632-Q1360	2024-04-26
Signal Generator	R&S	SMB100A	115183	2024-07-30
Power Amplifier	R&S	BBA150-BC250	103102	2024-07-31

Power Amplifier	R&S	BBA150-D110E100	103117	2024-08-27
NRP6AN Average power sensor	R&S	NRP6AN	101161	2024-07-30
NRP6AN Average power sensor	R&S	NRP6AN	101162	2024-07-30
Stacked double Log.-Per. Antenna1825022	SCHWARZBECK	STLP 9128E	0153	2024-12-29
Stacked Log.-Per. Antenna	SCHWARZBECK	STLP 9149	00520	2024-12-29
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Radio Frequency Continuous Conducted (CS)				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Conducted Immunity Test System	Teseq	NSG 4070	51350	2024-07-30
6 dB Attenuator	Teseq	100W6dB	/	2024-07-31
COUPLING AND DECOULPING NETWORK	Teseq	CDN M016	51055	2024-07-31
COUPLING AND DECOULPING NETWORK	Teseq	CDN M016	51056	2024-07-31
COUPLING AND DECOULPING NETWORK	Teseq	CDNE M210	51964	2024-07-31
COUPLING AND DECOULPING NETWORK	Teseq	CDNE M310	50933	2024-07-31
COUPLING AND DECOULPING NETWORK	Teseq	CDN T800	49430	2024-07-31
Attenuation clamp	Teseq	KEMA 801A	50790	2025-02-22
EM Clamp	Teseq	KEMZ 801A	51287	2025-02-22
EFT, Surge and Voltage Dips and Interruptions (AC Input)				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR3	102428	2024-07-30
“Van der Hoofden” test head	Schwarzbeck	VDHH 9502	159	2024-07-31
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

Shenzhen Nore Testing Center Co., Ltd.-EMC test

Low-Frequency Signals				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Low Frequency Signal Tester	Dongguan Sophpower Electronics Co., Ltd	HHF 5010	N/A	2025-03-21
EFT/Surge Immunity Test(AC output)				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EFT Generator	HAEFELY	AXOS5	177723	2025-03-21
Coupling Clamp	HAEFELY	N/A	N/A	2025-03-21
Test Software	VNC	VNC Viewer 5.0.5	N/A	
Radio Frequency Continuous Conducted (CS)				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**

Signal Generator	IFR	2023A	2023051280	2025-03-11
Power Amplifier	SCHAFFNER	CBA9425	1022	2025-03-11
6dB 50Watt Attenuator	SCHAFFNER	ATN6025	N/A	2025-03-11
CDN	Lioncel	CDN-M3-16	0170703	2025-03-11
CDN	Lioncel	CDN-M2-16	0170708	2025-03-11
CDN	CDSI	ADN-M5/AF5	8105001	2025-03-11
EM Clamp	CDSI	EMCL-22	8192007	2025-03-11
Directional Coupler	SCHAFFNER	255	19184	2025-03-11
Audio Analyzer	Rohde & Schwarz	UPV	100894	2025-03-11
Test Software	EZ	EZ_CS	N/A	N/A

2.3 Uncertainty of Measurement

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.
The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Table 2: Measurement Uncertainty

Test	**Parameters**	**Expanded uncertainty (U_{lab})**	**Expanded uncertainty (U_{cispr})**
Radiated Emission of Transmitter, valid up to 26.5 GHz		± 3.68 dB	
Radiated Emission of Receiver, valid up to 26.5 GHz		± 3.68 dB	
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 3.70 dB ± 3.30 dB	± 3.8 dB ± 3.4 dB
Radiated Emission (3m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.52 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.37 dB	N/A
Mains Harmonic	Current	± 4.60%	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.64%	N/A

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a portable power station which supports Bluetooth (BLE), 2.4GHz Wi-Fi functions.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	**Value**
Kind of Equipment:	Portable power station (Jackery Explorer 1000)
Type Designation:	JE-1000D
Operating Voltage:	DC 35.2V 30.4Ah via internal rechargeable Lithium-ion battery, AC Input: AC220-240V 50Hz, 10A Max, DC Input:2xDC 16~60V/10.5A Max, double to 21A/400W Max 2xDC 12-16V 8A Max, double to 8A Max 30.4Ah/35.2V DC by Lithium-ion Battery AC Output: AC 230V,50Hz,1500W Rated, USB Output: 1.USB-C1 output:30WMax,5V⎓3A,9V⎓3A,12V⎓2.5A,15V⎓2A,20V⎓1.5A 2.USB-C2 output:100WMax,5V⎓3A,9V⎓3A,12V⎓3A,15V⎓3A,20V⎓5A 3.USB-A output:18WMax,5-6V⎓3A,6-9V⎓2A,9-12V⎓1.5A Car Port: 12V⎓10A
Testing Voltage	AC 230V, 50Hz or DC16V or 60V
Operating Temperature Range:	-10 °C ~ 45 °C
UPS Equipment Classification:	Category C1
Technical Specification of Bluetooth LE	
Frequency Range	2402 MHz to 2480 MHz
Type of Modulation	GFSK
Channel Number	40 channels
Data Rate	1 Mbps
Channel Separation	2 MHz
Antenna Type	PCB antenna
Antenna Gain	3.96dBi
Technical Specification of Wi-Fi 802.11 b/g/n	
Characteristic	**Description**
Frequency Range:	2412 - 2472 MHz for 802.11b/g/n(HT20) 2422 - 2462 MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20)

	MCS0 ~ MCS7 for 802.11n(HT40)
Channel Number:	13 channels for 802.11b/g/n(HT20) 9 channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type:	PCB antenna
Antenna Gain:	3.96dBi

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Input AC 230V Charging (Storage energy operating mode) +USB-A (18W）+USB-C1（30W）+USB-C2 (100W）+ Car Port full load (12V /10A）+AC Output(1500W) +2.4G WLAN+BLE
B. On, Input DC 16V Charing (Storage energy operating mode) +USB-A (18W）+USB-C1（30W）+USB-C2 (100W）+ Car Port full load (12V/10A）+AC Output(1500W) +2.4G WLAN+BLE
C. On, Input DC 60V Charging (Storage energy operating mode) +USB-A (18W）+USB-C1（30W）+USB-C2 (100W）+ Car Port full load (12V/10A）+AC Output(1500W) +2.4G WLAN+BLE
D. On DC 35.2V Inverter output +USB-A (18W）+USB-C1（30W）+USB-C2 (100W）+ Car Port full load (12V /10A）+AC Output(1500W) +2.4G WLAN+BLE
E. 2.4G WLAN or BLE
F. Off

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and chapter 6

According to clause 3.1, all tests were performed on model JE-1000D in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Digital multimeter	Fluke	18B+	42274005WS	--
Lamp	Supplied by test lab	--	--	1500W
Resistor	Supplied by test lab	--	--	18W
Resistor	Supplied by test lab	--	--	30W
Resistor	Supplied by test lab	--	--	100W
Resistor	Supplied by test lab	--	--	120W

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

5 Test Results of EMC Requirement

5.1 Test Results of EMISSION

5.1.1 Harmonic Current Emissions on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3
		EN 301 489-17 V3.2.4
		EN IEC 62040-2: 2018
Basic standard	:	EN IEC 61000-3-2:2019+A1:2021
Test requirement	:	EN 301 489-1 V2.2.3, Clause 8.5
Measured harmonics	:	2 - 40
Classification	:	Class A
Limit	:	EN IEC 61000-3-2:2019+A1:2021, Clause 7.1 Table 1

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz
Operation mode	:	A
Test ports	:	AC mains
Earthing	:	Connected
Test observation period	:	2.5 min
Test configuration	:	Table-top
Ambient temperature	:	26 ℃
Relative humidity	:	60 %
Atmospheric pressure	:	101 kPa

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix A.

5.1.2 Voltage Fluctuations and Flicker on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3
		EN 301 489-17 V3.2.4
Basic standard	:	EN 61000-3-3:2013+A1:2019+A2:2021
Test requirement	:	EN 301 489-1 V2.2.3, Clause 8.6
Frequency range	:	0 – 2 KHz
Limit	:	EN 61000-3-3:2013+A1:2019+A2:2021, Clause 5

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz
Operation mode	:	A
Test ports	:	AC mains
Earthing	:	Connected
Test configuration	:	Table-top
Ambient temperature	:	23.4 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix A.

5.1.3 Conducted Emission on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018 EN 55032: 2015+A11
Test requirement	:	EN 301 489-1 V2.2.3, Clause 8.4 EN 55032: 2015+A11, A.3
Frequency range	:	150 KHz – 30 MHz
Kind of test site	:	Shielded Room
Limit	:	EN 301 489-1 V2.2.3, Clause 8.4.3.2 EN IEC 62040-2: 2018, Table 1 EN 55032: 2015+A11, Table A.10

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz
Operation mode	:	A
Test ports	:	AC mains terminals
Earthing	:	Connected
Test configuration	:	Table-top
Ambient temperature	:	23.9 ℃
Relative humidity	:	50.7 %
Atmospheric pressure	:	101 kPa

This testing was carried out on all operation modes and variable output powers, but only the worst case was presented in this report.
The UPS output cable cannot exceed 10 m in length as declared by the manufacturer.

For the measurement records, refer to the appendix A.

5.1.4 Radiated Emission

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018 EN 55032: 2015+A11
Test requirement	:	EN 301 489-1 V2.2.3, Clause 8.2 EN 55032: 2015+A11, A.2
Classification	:	Class B
Frequency range	:	30 MHz – 6000 MHz
Kind of test site	:	3m Semi-anechoic Chamber
Limit	:	EN 301 489-1 V2.2.3, Clause 8.2.3 EN IEC 62040-2: 2018, Table 3 EN 55032: 2015+A11, Table A.4 and A.5

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz or DC16V or 60V
Operation mode	:	A, B, C, D
Test Ports	:	Enclosure
Earthing	:	Connected
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix A.

5.1.5 Conducted Emission on DC Port

RESULT: **Not applicable**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018
Test requirement	:	EN 301 489-1 V2.2.3, Clause 8.3 EN IEC 62040-2: 2018, Clause 5.3.2.5
Frequency range	:	150 KHz – 30 MHz for EN 301 489-1
Kind of test site	:	Shielded Room
Limit	:	EN 301 489-1 V2.2.3

The EUT is Portable Power Station and no car charger input, Interface not directly connected to a network, DC input and output line length Less than 3m, so this test not applicable.

5.2 Test Results of IMMUNITY

5.2.1 Radio Frequency Electromagnetic Fields (RS)

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018 EN 55035:2017+A11
Basic standard	:	EN IEC 61000-4-3: 2020
Test requirement	:	EN 301 489-1 V2.2.3, Clause 9.2 EN IEC 62040-2: 2018, Table 5 EN 55035:2017+A11, Table 1
Frequency range	:	80MHz to 6000MHz for Swept test 1800MHz, 2600MHz, 3500MHz, 5000MHz for Spot test
Test level	:	3 V/m, (unmodulated, r.m.s)
Modulation	:	80% AM by a sinusoidal signal of 1KHz
Kind of test site	:	3m Full-anechoic Chamber
Performance criteria	:	A

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz or DC16V or 60V
Operation mode	:	A, B, C, D
Test Ports	:	Enclosure
Ambient temperature	:	23.7 ℃
Relative humidity	:	49.8 %
Atmospheric pressure	:	101 kPa

Table 5: Test Result of Radio Frequency Electromagnetic Fields (RS), swept test

Test Frequency Band	Test port / Test Level	Polarity	Location	Result	Performance criterion
80MHz – 1000MHz	Enclosure / 3V/m	Vertical / Horizontal	Front	Pass	A*
			Rear	Pass	A*
			Left	Pass	A*
			Right	Pass	A*
1000MHz – 6000MHz	Enclosure / 3V/m	Vertical / Horizontal	Front	Pass	A*
			Rear	Pass	A*
			Left	Pass	A*
			Right	Pass	A*

Table 6: Test Result of Radio Frequency Electromagnetic Fields (RS), spot test

Test Frequency Band	Test port / Test Level	Polarity	Location	Result	Performance criterion
Spot Frequency 1800MHz, 2600MHz, 3500MHz, 5000MHz	Enclosure / 3V/m	Vertical / Horizontal	Front	Pass	A*
			Rear	Pass	A*
			Left	Pass	A*
			Right	Pass	A*

*Remark: No degradation was observed during and after the tests.

5.2.2 Radio Frequency Continuous Conducted (CS)

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018 EN 55035:2017+A11
Basic standard	:	EN 61000-4-6: 2009
Test requirement	:	EN 301 489-1 V2.2.3, Clause 9.5 EN IEC 62040-2: 2018, Table 5 EN 55035:2017+A11, Table 4
Frequency range	:	0.15 - 80 MHz
Source impedance	:	150 Ω
Test level	:	3V (unmodulated, r.m.s.) for EN 301 489-1 3V (unmodulated, r.m.s.) for 0.15 to 10MHz for EN 55035 3V to 1V (unmodulated, r.m.s.) for 10 to 30MHz for EN 55035 1V (unmodulated, r.m.s.) for 30 to 80MHz for EN 55035
Modulation	:	AM 80%, 1 KHz sine-wave
Sweep mode	:	Automatic
Sweep rate	:	< 1.5×10^{-3} decade / sec.
Performance criteria	:	A

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz
Operation mode	:	A, D
Test Ports	:	AC mains power port & AC Output port
Earthing	:	Connected
Ambient temperature	:	22.9 ℃
Relative humidity	:	49.5 %
Atmospheric pressure	:	101 kPa

Table 7: Test result of Radio Frequency Continuous Conducted (CS)

Test Frequency Band	Coupling Method	Test Port	Test Level	Actual Performance
150KHz – 80MHz	Direct Injection	AC mains power port & AC Output port	3.0 V	A*
150KHz – 10MHz	Direct Injection	AC mains power port & AC Output port	3.0 V	A*
10MHz – 30MHz	Direct Injection	AC mains power port & AC Output port	3.0 V to 1.0V	A*
30MHz – 80MHz	Direct Injection	AC mains power port & AC Output port	1.0 V	A*

*Remark: No degradation was observed during and after the tests.

Note: USB A&C output and car charger output line length Less than 3m by the client declaration.

5.2.3 Electrostatic Discharge (ESD)

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018 EN 55035:2017+A11
Basic standard	:	EN 61000-4-2: 2009
Test requirement	:	EN 301 489-1 V2.2.3, Clause 9.3 EN IEC 62040-2: 2018, Table 5 EN 55035:2017+A11, Table 1
Discharge impedance	:	330 Ω / 150 pF
Test level	:	Air discharge: ± 2 kV, ± 4 kV, ± 8 kV Contact discharge: ± 4 kV HCP & VCP: ± 4 kV
Position	:	All exposed surfaces
Performance criteria	:	B

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz or DC16V or 60V
Operation mode	:	A, B, C, D
Test Ports	:	Enclosure
Earthing	:	Connected
Ambient temperature	:	23.3 ℃
Relative humidity	:	49.9 %
Atmospheric pressure	:	101 kPa

Table 8: Test Result of Electrostatic Discharge (ESD)

Test Mode	Test Level	Location	Actual Performance
A, B, C, D mode	± 4.0kV / Contact	HCP	A*
		VCP	A*
		Conducted Enclosure	A*
	± 2.0kV, ± 4.0kV, ± 8.0kV / Air	Non-conducted Enclosure	A*
		Button	A*
		Slot	A*

*Remark: No degradation was observed during and after the tests.

5.2.4 Electrical Fast Transients (EFT)

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018 EN 55035:2017+A11
Basic standard	:	EN 61000-4-4: 2012
Test requirement	:	EN 301 489-1 V2.2.3, Clause 9.4 EN IEC 62040-2: 2018, Table 5 EN 55035:2017+A11, Table 4
Test level	:	± 1.0 kV on AC
Test duration	:	2 minute per level & polarity
Rise time	:	5/50ns
Repetition frequency	:	5 KHz
Performance criteria	:	B

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz
Operation mode	:	A, D
Test Ports	:	AC mains power port & AC Output port
Earthing	:	Connected
Ambient temperature	:	23.2 ℃
Relative humidity	:	49.5 %
Atmospheric pressure	:	101 kPa

Table 9: Test Result of Electrical Fast Transients (EFT)

Test Mode	Coupling Method	Coupling Port	Test Level	Actual Performance
A, D mode	Direct Injection	Live + Neutral + Ground	± 1.0 kV on AC	A*

*Remark: No degradation was observed during and after the tests.
Note: USB A&C output and car charger output line length Less than 3m by the client declare.

5.2.5 Surge

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018 EN 55035: 2017+A11
Basic standard	:	EN 61000-4-5:2014+A1:2017
Test requirement	:	EN 301 489-1 V2.2.3, Clause 9.8 EN IEC 62040-2: 2018, Table 5 EN 55035:2017+A11, Table 4
Test level	:	± 1.0 kV line to line
Repetition rate	:	Max. 1/min
Number of surges	:	5 (for each combination of parameters)
Performance criteria	:	B

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz
Operation mode	:	A, D
Test Ports	:	AC mains power port & AC Output port
T_r / T_h	:	1,2 / 50 µs
Earthing	:	Connected
Ambient temperature	:	24.7 ℃
Relative humidity	:	49.5 %
Atmospheric pressure	:	101 kPa

Table 10: Test Result of Surge

Test Mode	Coupling Port	Test Level (±kV)	Coupling Phase	Actual Performance
A,D mode	AC mains power port & AC Output port	± 2.0 kV line to ground & ± 1.0 kV line to line	0	A*
			π/2	A*
			π	A*
			3π/2	A*

*Remark: No degradation was observed during and after the tests.

5.2.6 Low-Frequency Signals

RESULT: **Pass**

Test Specification

Test standard	:	EN IEC 62040-2:2018
Basic standard	:	EN IEC 62040-2:2018 IEC 61000-2-2:2002
Test requirement	:	EN IEC 62040-2:2018, Table 5, Clause D.6
Frequency:		140-360Hz
Test level	:	10V
Performance criteria	:	A

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz
Operation mode	:	A
Test Ports	:	AC mains power port
Earthing	:	Connected
Ambient temperature	:	20.6 ℃
Relative humidity	:	44 %
Atmospheric pressure	:	101 kPa

Table 11: Test Result of Low-Frequency Signals

Test Configuration&Mode	Test Item	Test Level	Performance Criterion	Description	Result
A	Power line harmonics & Inter-harmonics	10V, 140Hz-360Hz	Criterion A	No failure detected	Pass

5.2.7 Voltage Dips and Interruptions

RESULT: **Pass**

Test Specification

Test standard	:	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 62040-2: 2018 EN 55035:2017+A11
Basic standard	:	EN 61000-4-11: 2004
Test requirement	:	EN 301 489-1 V2.2.3, Clause 9.7 EN IEC 62040-2: 2018, clause 6.4 EN 55035:2017+A11, Table 4
Test level	:	☒ voltage dip: 0% residual voltage for 0,5 cycle ☒ voltage dip: 0% residual voltage for 1 cycle ☒ voltage dip: 70% residual voltage for 25 cycles ☒ voltage interruption: 0% residual voltage for 250 cycles
Performance criteria	:	B & C

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz
Operation mode	:	A
Test Ports	:	AC mains power port
Earthing	:	Connected
Ambient temperature	:	27.7 ℃
Relative humidity	:	48.0 %
Atmospheric pressure	:	101 kPa

Table 12: Test Result of Voltage Dips and Interruptions

Test Mode	Coupling Port	Test Level U_T (%)	Reduction Duration (in Period)	Actual Performance
A mode	AC mains power port	0%	0.5(50Hz)	A*
		0%	1.0(50Hz)	A*
		70%	25(50Hz)	A*
		0%	250(50Hz)	B**

*Remark: No degradation was observed during and after the tests.
**Remark: During the test, The EUT stop charging. However, it could automatically restart and recover to charging after test.

5.2.8 Power-Frequency Magnetic Field

RESULT: **Pass**

Test Specification

Test standard	:	EN 55035:2017+A11:2020 EN IEC 62040-2:2018
Basic standard	:	EN IEC 62040-2:2018 IEC 61000-4-8: 2009
Test requirement	:	EN 55035:2017+A11:2020, Table 1 EN IEC 62040-2:2018, Table 5
Test level	:	1A/m for EN 55035:2017+A11:2020 3A/m for EN IEC 62040-2
Performance criteria	:	A for EN 55035 A for EN 62040-2

Test Setup

Date of testing	:	2024-04-12 - 2024-07-16
Test voltage	:	AC 230V, 50Hz or DC16V or DC60V
Operation mode	:	A, B, C, D
Test Ports	:	Enclosure
Earthing	:	Connected
Ambient temperature	:	24.6 ℃
Relative humidity	:	53.6 %
Atmospheric pressure	:	101 kPa

Table 13: Test Result of Surge

Test Mode	Coupling Port	Coupling Phase	Actual Performance
A, B, C, D mode	enclosure ports	1A/m	A
		3A/m	A

*Remark: No degradation was observed during and after the tests.

5.3 Eessential requirements of harmonized standard covering article 3.2 radio spectrum requirement of the RED

RESULT: **Pass**

Test Specification

Test standard : EN 300 328 V2.2.2

The device includes a wireless module ESP32-C3-MINI-1 with same antenna, according to clause 6.1 of EG 203 367 V1.1.1, the conditions in which the radio product is used in the combined equipment does not deviate from the assessment conditions. Therefore, the device comply with EN 300 328 V 2.2.2 requirement with radiated spurious emission test and all other data refer to original module report R2103A0269-R1 issued by TA Technology(Shanghai) Co.,Ltd.

5.3.1 Radiated Spurious Emissions (EN 300 328)

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	EN 300 328 V2.2.2, Clause 4.3.2.9 & Clause 4.3.2.10
Limit	:	EN 300 328 V2.2.2, Clause 4.3.2.9.3 & 4.3.2.10.3
Test suites	:	EN 300 328 V2.2.2, Clause 5.4.9
Kind of test site	:	3m Fully Anechoic Room

Test Setup

Date of testing	:	2024-04-12 - 2024-04-30
Test voltage	:	AC 230V, 50Hz
Operation mode	:	E
Test channel	:	Low / High
Ambient temperature	:	Refer to test results
Relative humidity	:	Refer to test results
Atmospheric pressure	:	101 kPa

Note: This testing was carried out on different modulations, but only the worst case was presented in this report.

For the measurement records, refer to the appendix A.

5.4 Human Exposure to Electromagnetic Fields 10MHz-300GHz

5.4.1 Electromagnetic Fields

RESULT: **Pass**

Test Specification

Test standard : EN 50566: 2017
EN IEC 62311: 2020
1999/519/EC

5.4.2 RF Exposure Requirement (1999/519/EC)

Reference levels for electric, magnetic and electromagnetic fields
(0Hz to 300GHz, unperturbed rms values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m²)
0-1 Hz	—	$3,2 \times 10^4$	4×10^4	—
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	—
8-25 Hz	10 000	4 000/f	5 000/f	—
0,025-0,8 kHz	250/f	4/f	5/f	—
0,8-3 kHz	250/f	5	6,25	—
3-150 kHz	87	5	6,25	—
0,15-1 MHz	87	0,73/f	0,92/f	—
1-10 MHz	$87/f^{1/2}$	0,73/f	0,92/f	—
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	f/200
2-300 GHz	61	0,16	0,20	10

5.4.3 Test Result

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore, RF exposure evaluation or computational modeling should be used to determine compliance.

RF exposure from the product which meets the limits for public exposure will automatically meet the limits for workers without further testing. However, RF exposure from the product which meets the limits for workers will not necessarily meet the limits for the general public and, unless RF exposure conditions are restricted to workers' when at work, equipment shall also be tested against general public limits.

☐ Workers exposure:

Equipment intended only for use by workers when at work, and this condition is clearly identified in the user instructions.

☒ General public exposure:

Other conditions than workers.

Compliance Evaluation

The compliance is demonstrated based on the following calculation model assessment:
The power density according to far-field model is:

$$S = \frac{P \times G_{(\theta,\phi)}}{4 \times \pi \times R^2}$$

Where:
P = input power of the antenna.
G = antenna gain relative to an isotropic antenna.
θ, ϕ = elevation and azimuth angles.
R = distance from the antenna to the point of investigation.

For single or multiple RF sources, the calculated power density should comply with following:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Where:
S_i = the power density when the f is i.

$S_{Limit,i}$ = the reference level requirement for power density when f is i.

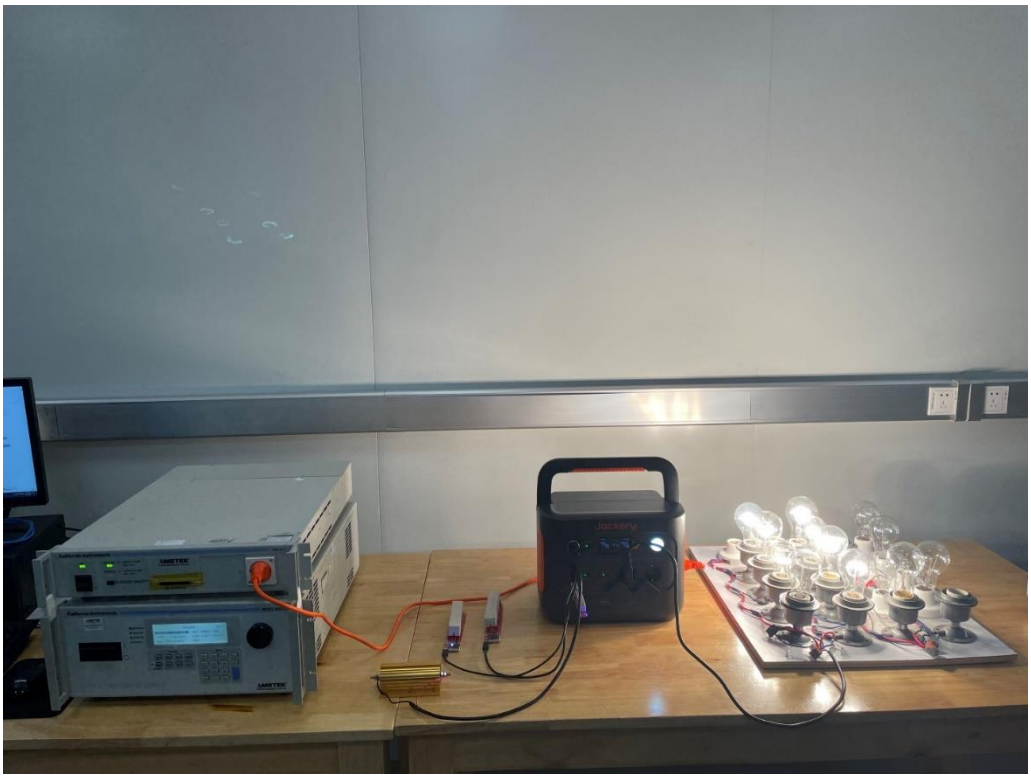
a) Stand-alone operation mode

Band	Frequency (MHz)	Average output power(dBm)	Gain (dBi)	EIRP (W)	Power density@20cm (W/m²)	Limit (W/m²)	Result
Bluetooth (LE)	2402 - 2480	3.86	3.96	0.006	0.01	10	Pass
Wi-Fi 2.4G	2412 - 2472	16.03	3.96	0.100	0.20	10	Pass

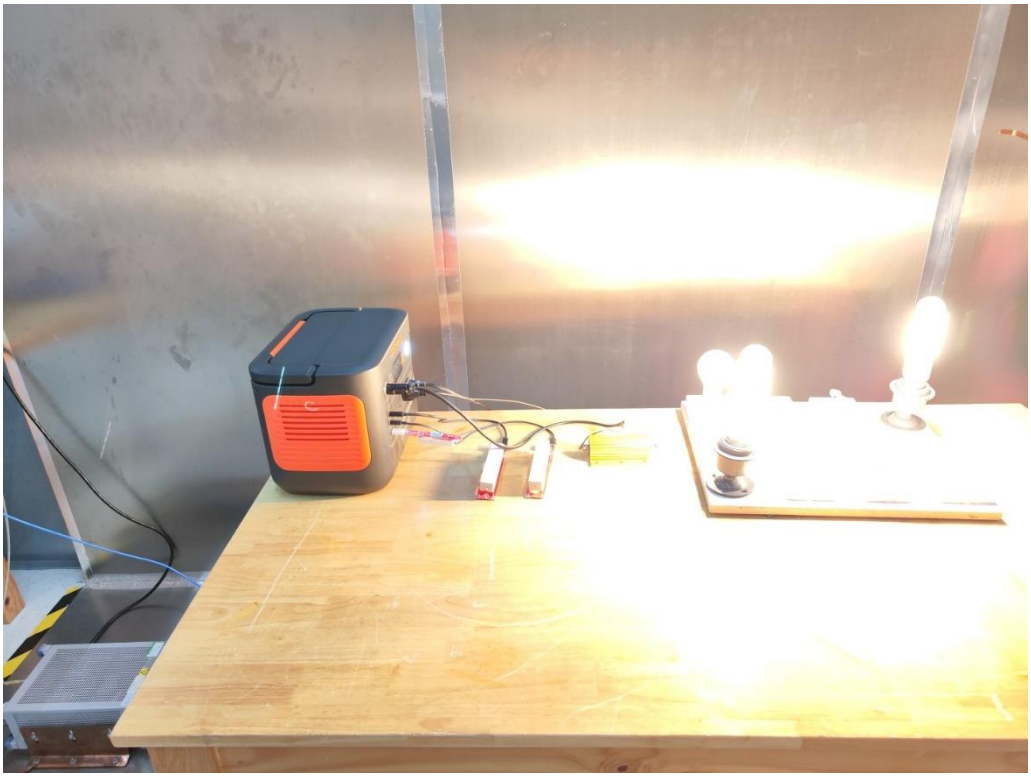
The device includes a wireless module ESP32-C3-MINI-1, all the output power data are conducted original module report R2103A0269-R1 issued by TA Technology(Shanghai) Co., Ltd.
Bluetooth and Wi-Fi 2.4G cannot operate simultaneously.

6 Photographs of the Test Set-Up

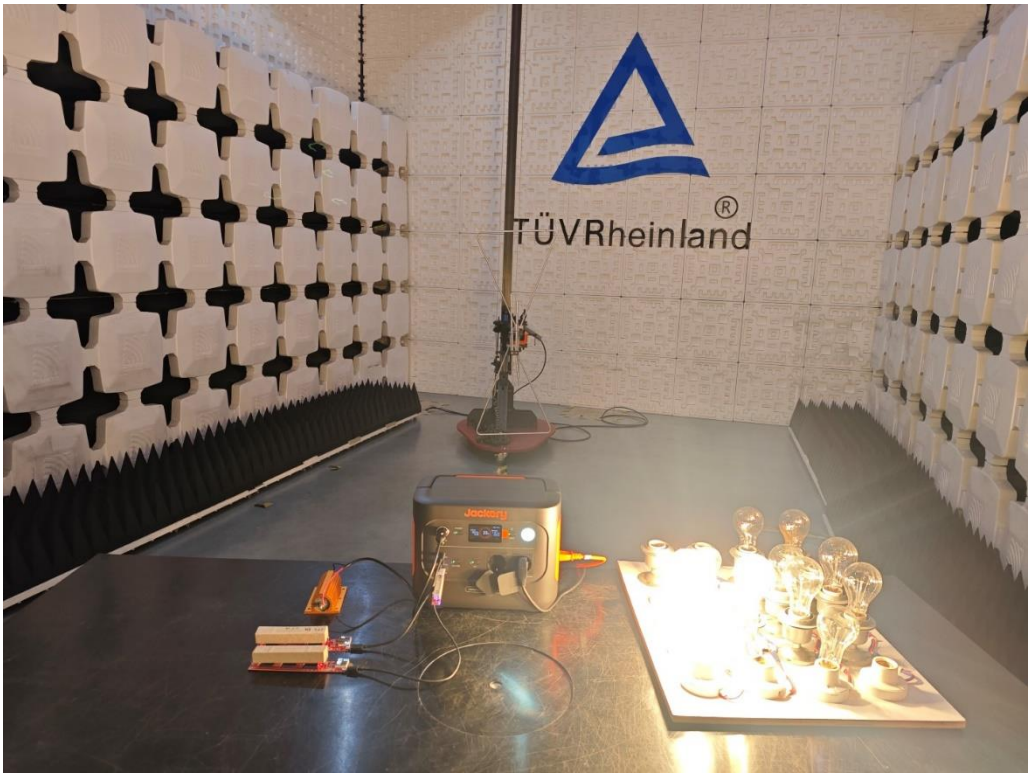
Photograph 1: Set-up for Voltage Fluctuations/Flicker



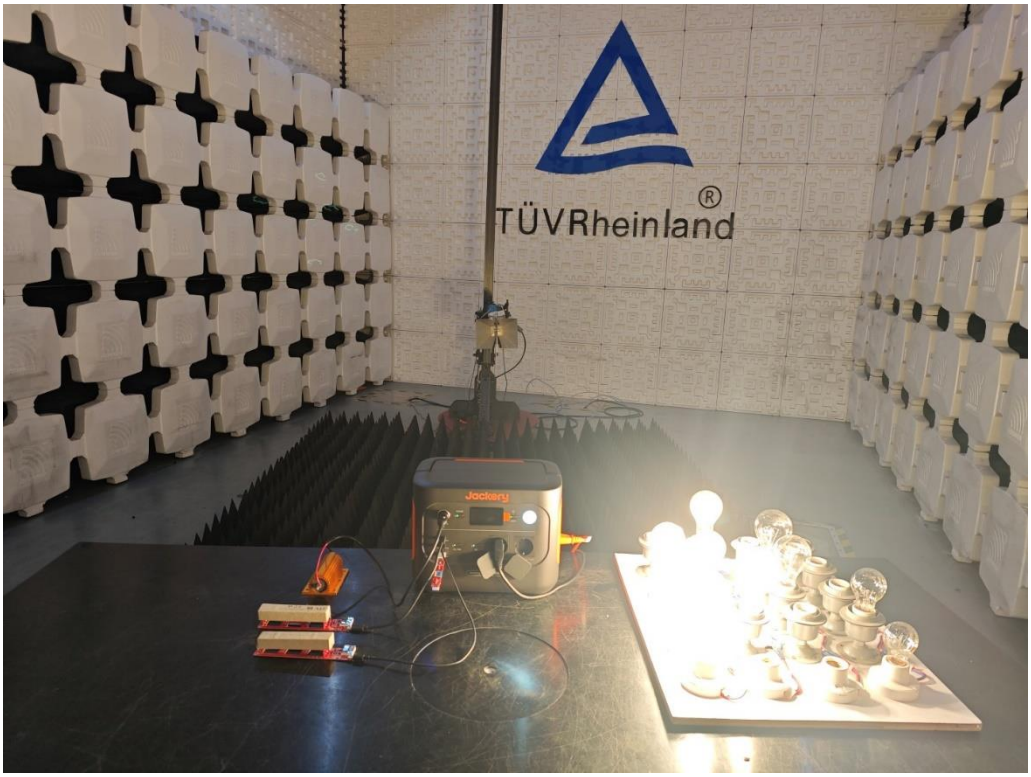
Photograph 2: Set-up for Conducted Emission on AC Mains



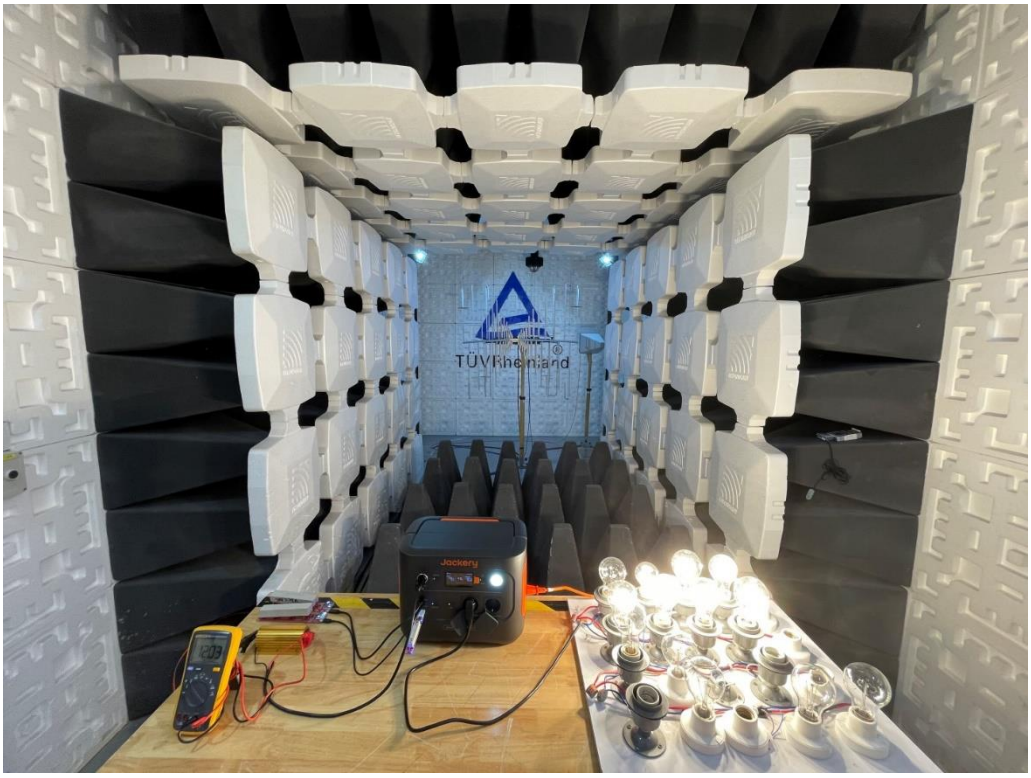
Photograph 3: Set-up for Radiated Emission, 30 MHz – 1 GHz



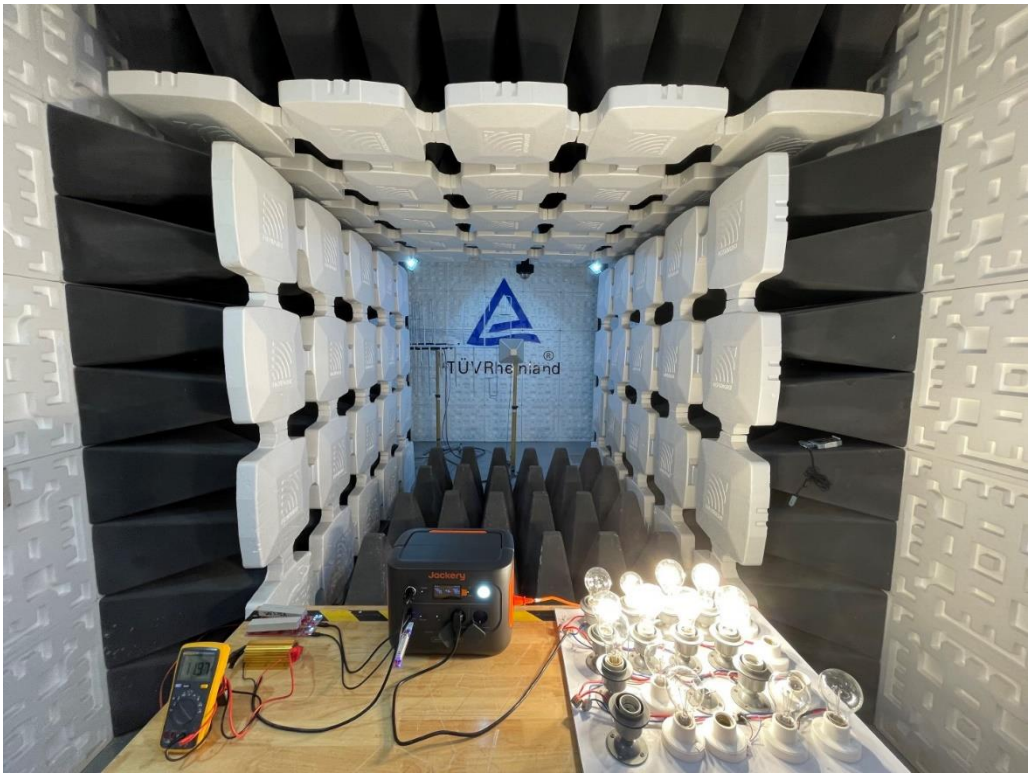
Photograph 4: Set-up for Radiated Emission, Above 1GHz



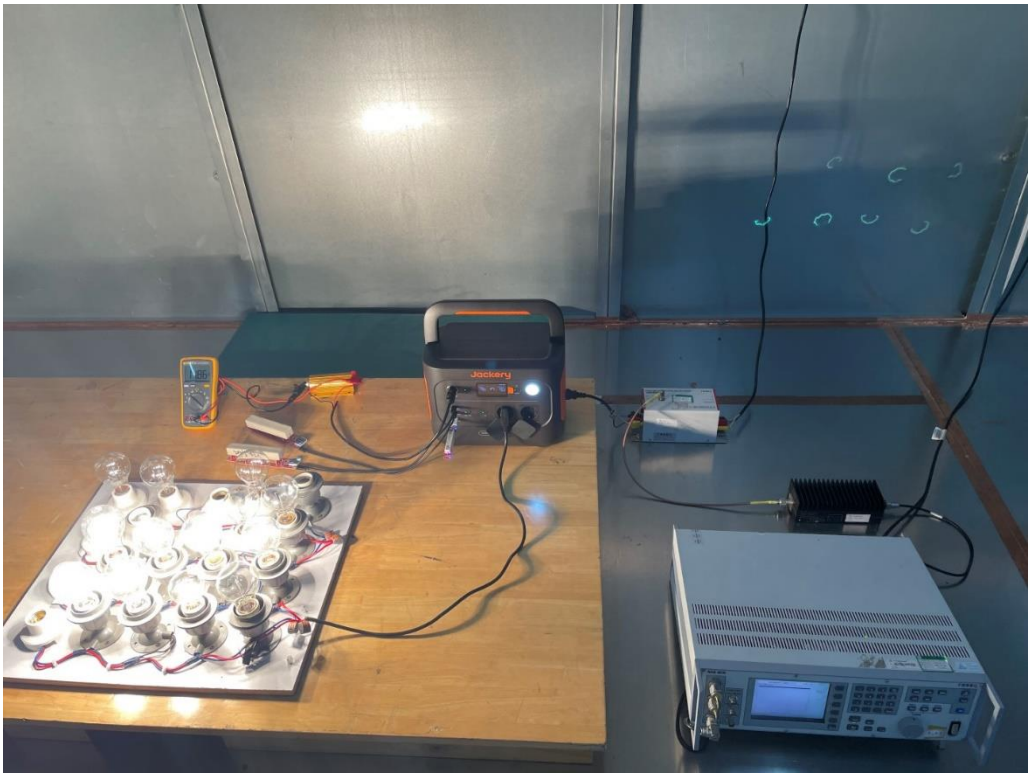
Photograph 5: Set-up for Radio Frequency Electromagnetic Fields (RS), Below 1GHz



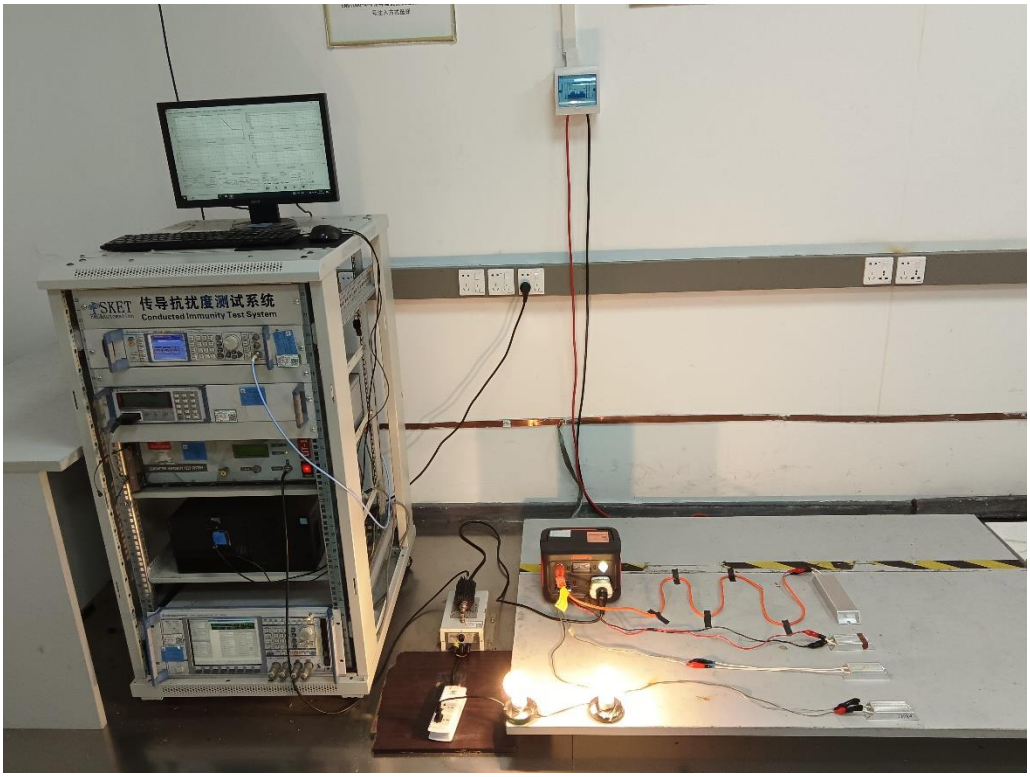
Photograph 6: Set-up for Radio Frequency Electromagnetic Fields (RS), Above 1GHz



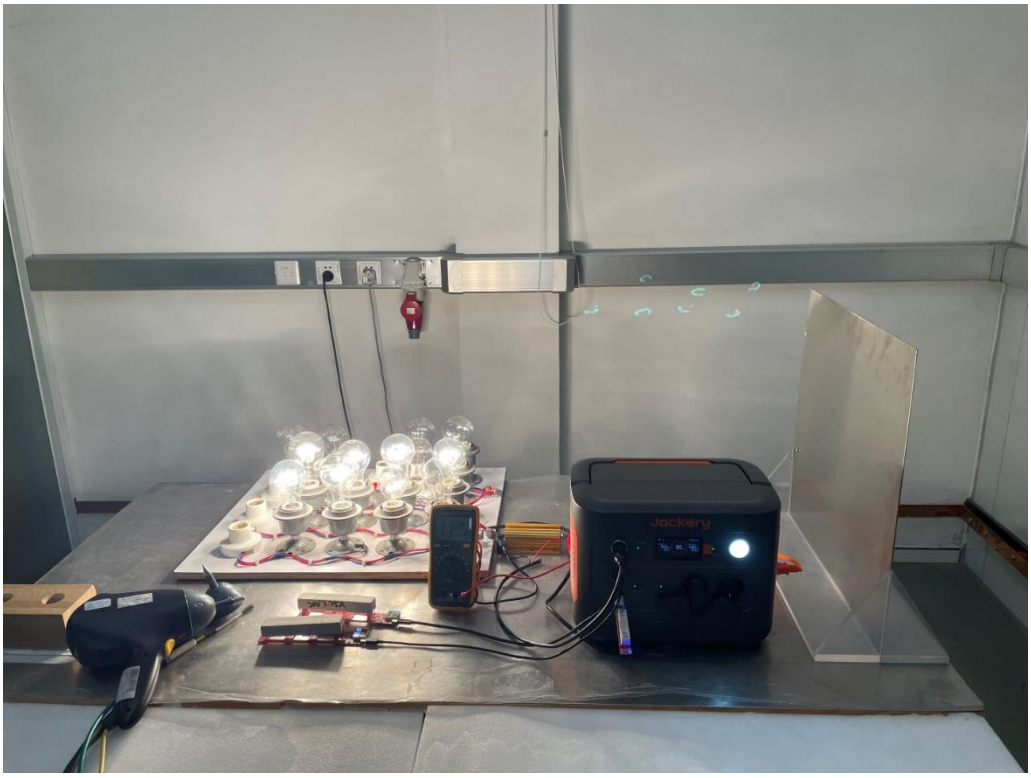
Photograph 7: Set-up for Radio Frequency Continuous Conducted (CS)-AC input



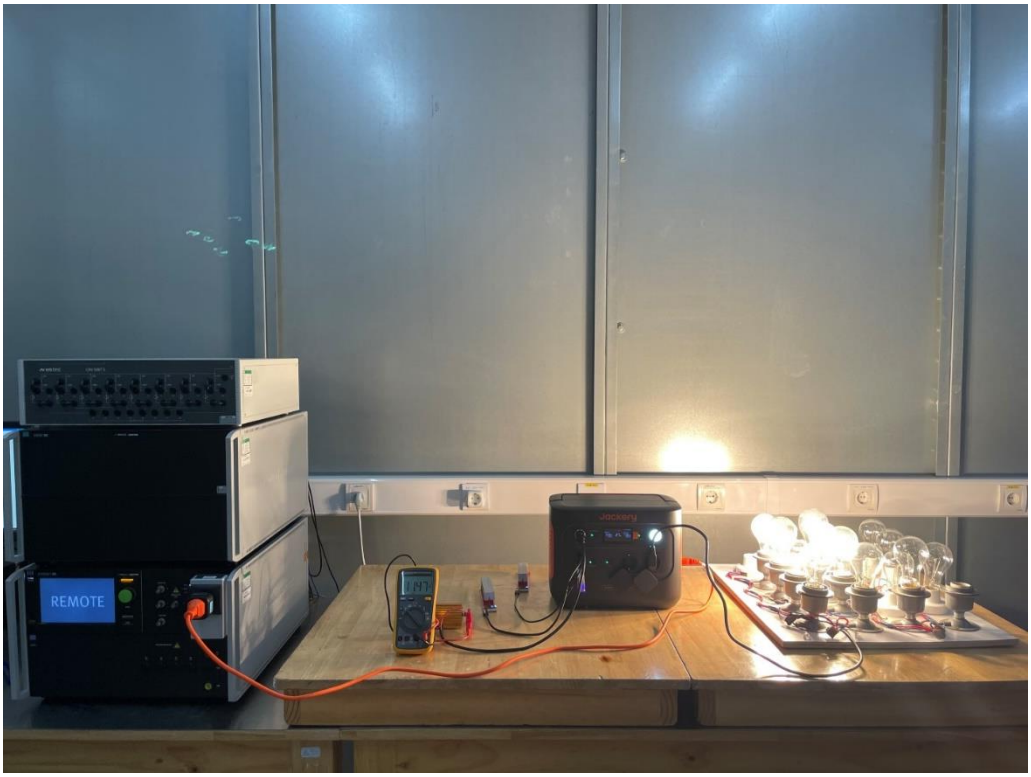
Photograph 8: Set-up for Radio Frequency Continuous Conducted (CS)-AC output



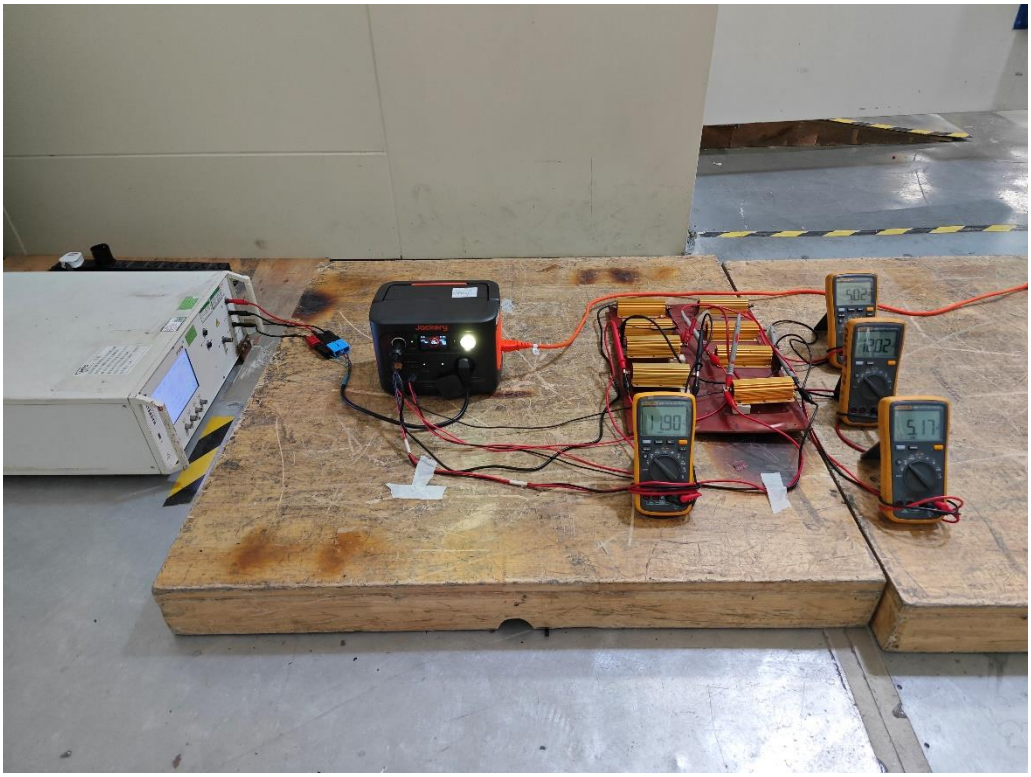
Photograph 9: Set-up for Electrostatic Discharges (ESD)



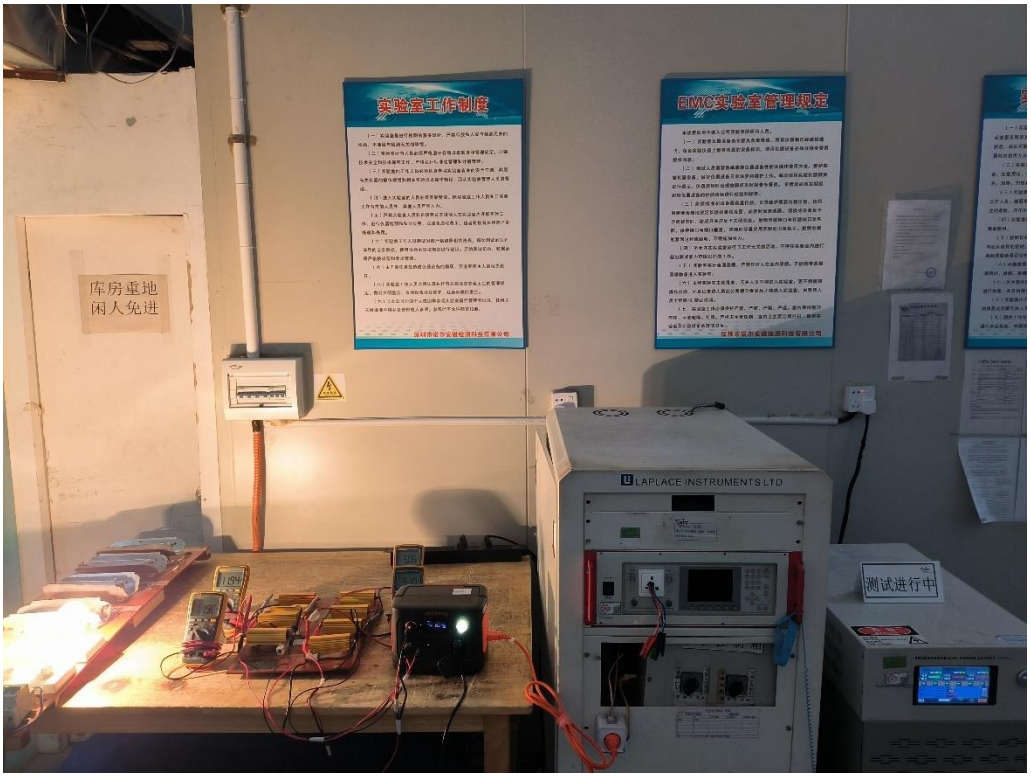
Photograph 10: Set-up for Surge/EFT/DIPS-AC input



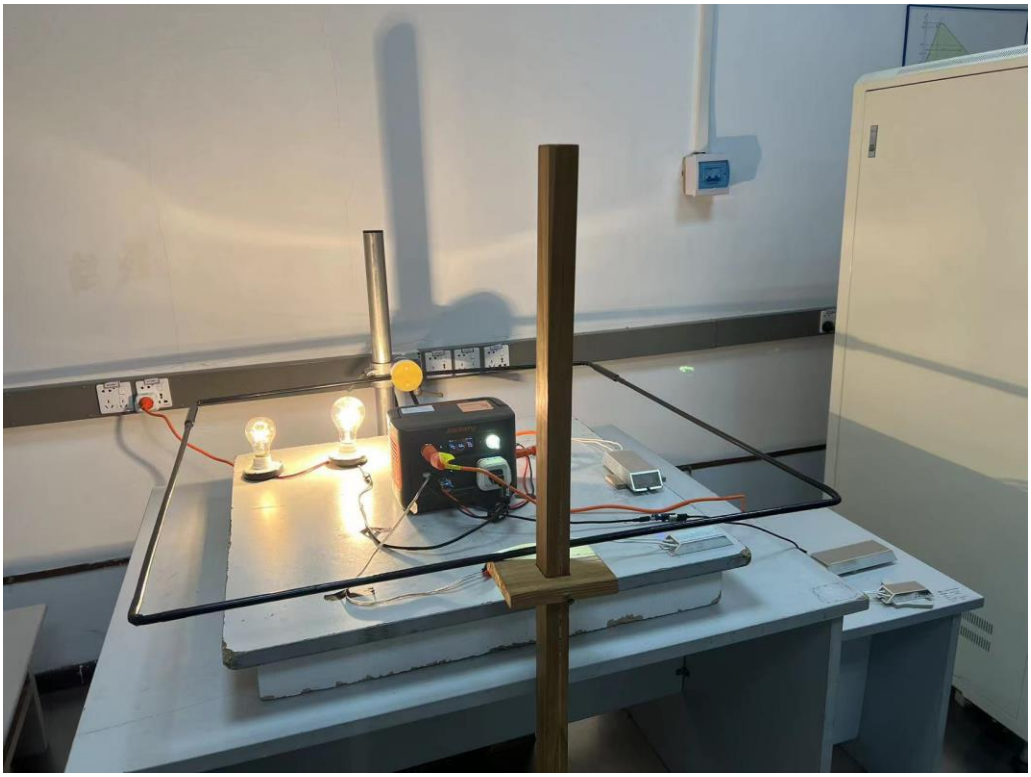
Photograph 11: Set-up for Surge/EFT-AC output



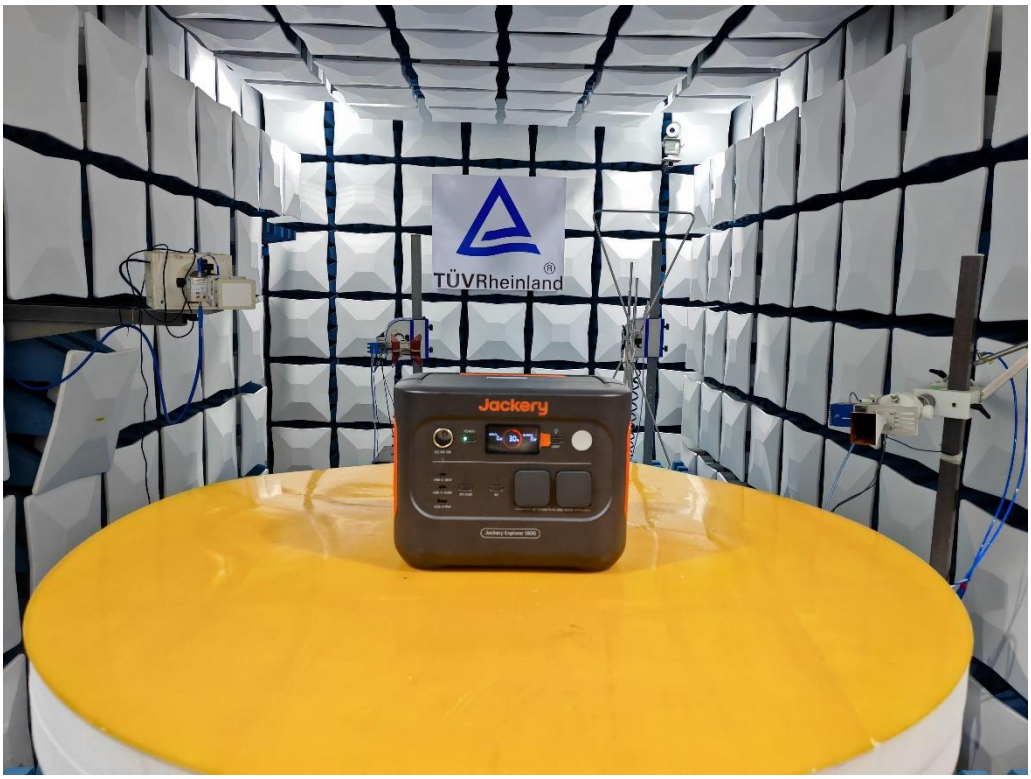
Photograph 12: Set-up for Low-Frequency Signals



Photograph 13: Set-up for Power-Frequency Magnetic Field



Photograph 14: Set-up for Radiated Spurious Emission



7 List of Tables

8 List of Photographs

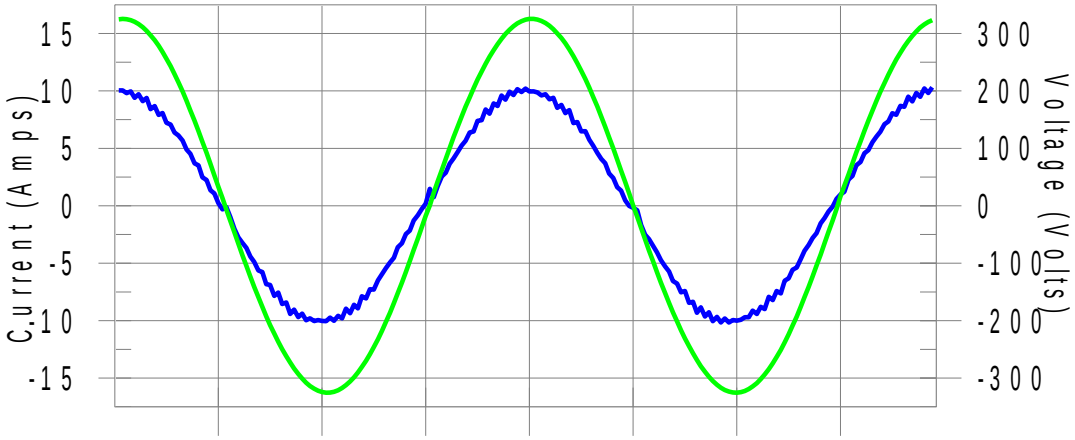
Appendix A: Test Results of EMC requirement and Radiated Spurious Emission.

Appendix A.1: Test Results of Harmonics

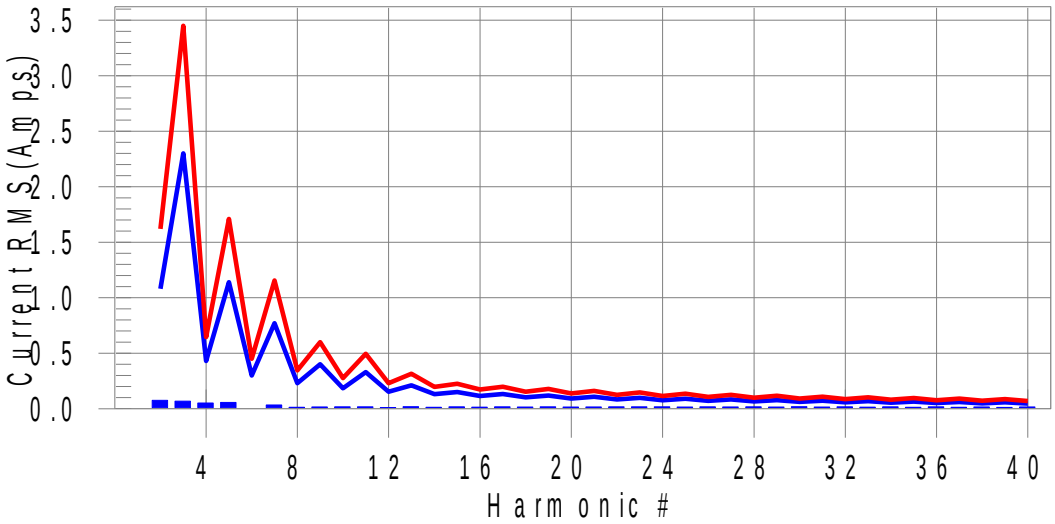
EUT: Jackery Explorer 1000 **Tested by: Birch Zhang**
Test category: Class-A (European limits) **Test Margin: 100**
Test date: 4/24/2024 **Start time: 2:21:50 PM** **End time: 2:24:31 PM**
Test duration (min): 2.5 **Data file name: H-001191.cts_data**
Comment: Shower Dai
Customer: Jackery Technology GmbH

Test Result: Pass **Source qualification: Normal**

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Test result: Pass Worst harmonics H4-8.3% of 150% limit, H4-12.1% of 100% limit

Current Test Result Summary (Run time)

EUT: **Jackery Explorer 1000** Tested by: Birch Zhang
Test category: Class-A (European limits) **Test Margin: 100**
Test date: 4/24/2024 **Start time: 2:21:50 PM** **End time: 2:24:31 PM**
Test duration (min): 2.5 **Data file name: H-001191.cts_data**
Comment: Shower Dai
Customer: Jackery Technology GmbH

Test Result: Pass **Source qualification: Normal**
THC(A): 0.159 **I-THD(%): 2.3** **POHC(A): 0.047** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**230.19**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**10.493**	**I_RMS (Amps):**	**7.082**
I_Fund (Amps):	**7.073**	**Crest Factor:**	**1.483**
Power (Watts):	**1624.0**	**Power Factor:**	**0.997**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.075	1.080	6.9	0.078	1.620	4.8	Pass
3	0.068	2.300	3.0	0.071	3.450	2.0	Pass
4	0.052	0.430	12.1	0.053	0.645	8.3	Pass
5	0.056	1.140	4.9	0.057	1.710	3.3	Pass
6	0.003	0.300	N/A	0.005	0.450	N/A	Pass
7	0.033	0.770	N/A	0.035	1.155	N/A	Pass
8	0.013	0.230	N/A	0.014	0.345	N/A	Pass
9	0.016	0.400	N/A	0.017	0.600	N/A	Pass
10	0.017	0.184	N/A	0.018	0.276	N/A	Pass
11	0.017	0.330	N/A	0.018	0.495	N/A	Pass
12	0.010	0.153	N/A	0.011	0.230	N/A	Pass
13	0.018	0.210	N/A	0.019	0.315	N/A	Pass
14	0.013	0.131	N/A	0.014	0.197	N/A	Pass
15	0.017	0.150	N/A	0.018	0.225	N/A	Pass
16	0.014	0.115	N/A	0.016	0.173	N/A	Pass
17	0.018	0.132	N/A	0.018	0.198	N/A	Pass
18	0.015	0.102	N/A	0.017	0.153	N/A	Pass
19	0.017	0.118	N/A	0.018	0.178	N/A	Pass
20	0.016	0.092	N/A	0.019	0.138	N/A	Pass
21	0.016	0.107	N/A	0.018	0.161	N/A	Pass
22	0.017	0.084	N/A	0.018	0.125	N/A	Pass
23	0.017	0.098	N/A	0.018	0.147	N/A	Pass
24	0.017	0.077	N/A	0.018	0.115	N/A	Pass
25	0.016	0.090	N/A	0.017	0.135	N/A	Pass
26	0.017	0.071	N/A	0.018	0.107	N/A	Pass
27	0.016	0.083	N/A	0.018	0.125	N/A	Pass
28	0.017	0.066	N/A	0.020	0.099	N/A	Pass
29	0.015	0.078	N/A	0.017	0.116	N/A	Pass
30	0.018	0.061	N/A	0.019	0.092	N/A	Pass
31	0.015	0.073	N/A	0.019	0.109	N/A	Pass
32	0.017	0.058	N/A	0.020	0.086	N/A	Pass
33	0.014	0.068	N/A	0.016	0.102	N/A	Pass
34	0.017	0.054	N/A	0.018	0.081	N/A	Pass
35	0.013	0.064	N/A	0.014	0.096	N/A	Pass
36	0.017	0.051	N/A	0.018	0.077	N/A	Pass
37	0.013	0.061	N/A	0.014	0.091	N/A	Pass
38	0.016	0.048	N/A	0.017	0.073	N/A	Pass
39	0.012	0.058	N/A	0.013	0.087	N/A	Pass
40	0.016	0.046	N/A	0.017	0.069	N/A	Pass

Voltage Source Verification Data (Run time)

EUT: Jackery Explorer 1000 **Tested by: Birch Zhang**
Test category: Class-A (European limits) **Test Margin: 100**
Test date: 4/24/2024 **Start time: 2:21:50 PM** **End time: 2:24:31 PM**
Test duration (min): 2.5 **Data file name: H-001191.cts_data**
Comment: Shower Dai
Customer: Jackery Technology GmbH

Test Result: Pass **Source qualification: Normal**

Highest parameter values during test:

Voltage (Vrms):	**230.19**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**10.493**	**I_RMS (Amps):**	**7.082**
I_Fund (Amps):	**7.073**	**Crest Factor:**	**1.483**
Power (Watts):	**1624.0**	**Power Factor:**	**0.997**

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.067	0.460	14.60	OK
3	0.529	2.072	25.54	OK
4	0.057	0.460	12.45	OK
5	0.077	0.921	8.37	OK
6	0.036	0.460	7.88	OK
7	0.061	0.690	8.85	OK
8	0.013	0.460	2.89	OK
9	0.028	0.460	6.18	OK
10	0.029	0.460	6.33	OK
11	0.015	0.230	6.62	OK
12	0.016	0.230	7.17	OK
13	0.014	0.230	6.03	OK
14	0.017	0.230	7.22	OK
15	0.010	0.230	4.38	OK
16	0.026	0.230	11.30	OK
17	0.009	0.230	3.98	OK
18	0.025	0.230	10.68	OK
19	0.015	0.230	6.34	OK
20	0.049	0.230	21.25	OK
21	0.016	0.230	6.95	OK
22	0.019	0.230	8.44	OK
23	0.014	0.230	5.89	OK
24	0.013	0.230	5.58	OK
25	0.016	0.230	6.95	OK
26	0.015	0.230	6.36	OK
27	0.021	0.230	8.97	OK
28	0.019	0.230	8.08	OK
29	0.020	0.230	8.57	OK
30	0.018	0.230	8.00	OK
31	0.017	0.230	7.19	OK
32	0.020	0.230	8.68	OK
33	0.018	0.230	7.67	OK
34	0.023	0.230	10.10	OK
35	0.015	0.230	6.42	OK
36	0.022	0.230	9.77	OK
37	0.019	0.230	8.12	OK
38	0.019	0.230	8.07	OK
39	0.016	0.230	7.13	OK
40	0.032	0.230	13.98	OK

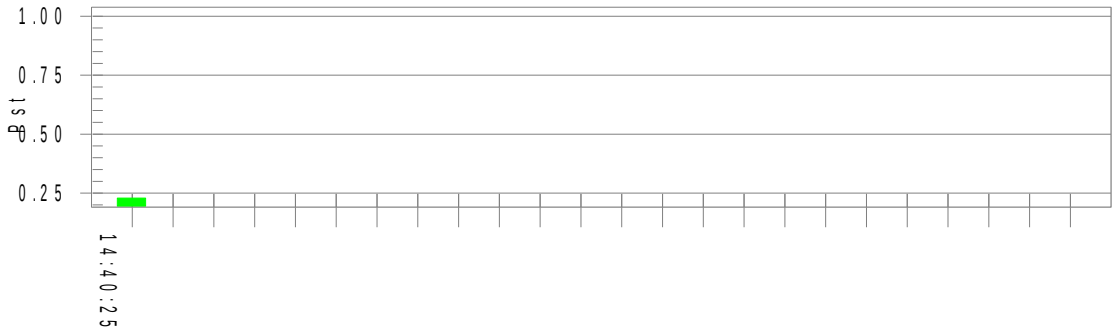
Appendix A.2: Test Results of Voltage Fluctuations and Flicker on AC Mains

Flicker Test Summary per IEC61000-3-3:2013/AMD1:2017 (Run time)

EUT: Jackery Explorer 1000 **Tested by: Birch Zhang**
Test category: All parameters (European limits) **Test Margin: 100**
Test date: 4/24/2024 **Start time: 2:30:04 PM** **End time: 2:40:31 PM**
Test duration (min): 10 **Data file name: F-001193.cts_data**
Comment: Shower Dai
Customer: Jackery Technology GmbH

Test Result: Pass **Status: Test Completed**

Pst_i and limit line **European Limits**



Plt and limit line

Parameter values recorded during the test:

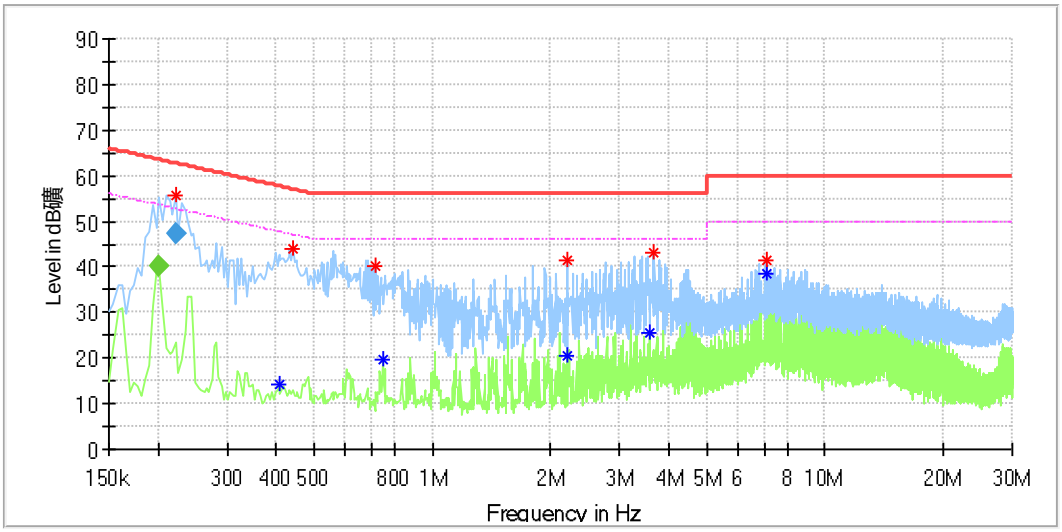
Vrms at the end of test (Volt):	**227.03**			
Highest dt (%):		**Test limit (%):**		
T-max (mS):	**0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.00**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.229**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.100**	**Test limit:**	**0.650**	**Pass**

Appendix A.3: Test Results of Conducted Emission on AC Mains

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input AC 230V+USB-C1 30W+USB-C2(100W) +USB-A(18W) +Car Port full load 12V 10A+AC Output (1500W) +WIFI+BLE
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 55032
Test By:/Review By:	Junhua/ Shower Dai
Tem./Hum./Pressure:	24.3°C/52.2%/101kPa
Remark:	SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.201500	---	40.02	53.53	13.51	L1	9.9
0.221500	55.83	---	62.74	6.91	L1	9.9
0.406000	---	14.05	47.73	33.68	L1	9.9
0.442000	44.11	---	57.02	12.91	L1	9.9
0.718000	40.23	---	56.00	15.77	L1	10.0
0.746000	---	19.47	46.00	26.53	L1	10.0
2.198000	---	20.34	46.00	25.66	L1	10.2
2.206000	41.58	---	56.00	14.42	L1	10.2
3.590000	---	25.63	46.00	20.37	L1	10.2
3.670000	43.01	---	56.00	12.99	L1	10.2
7.102000	---	38.54	50.00	11.46	L1	10.3
7.102000	41.27	---	60.00	18.73	L1	10.3

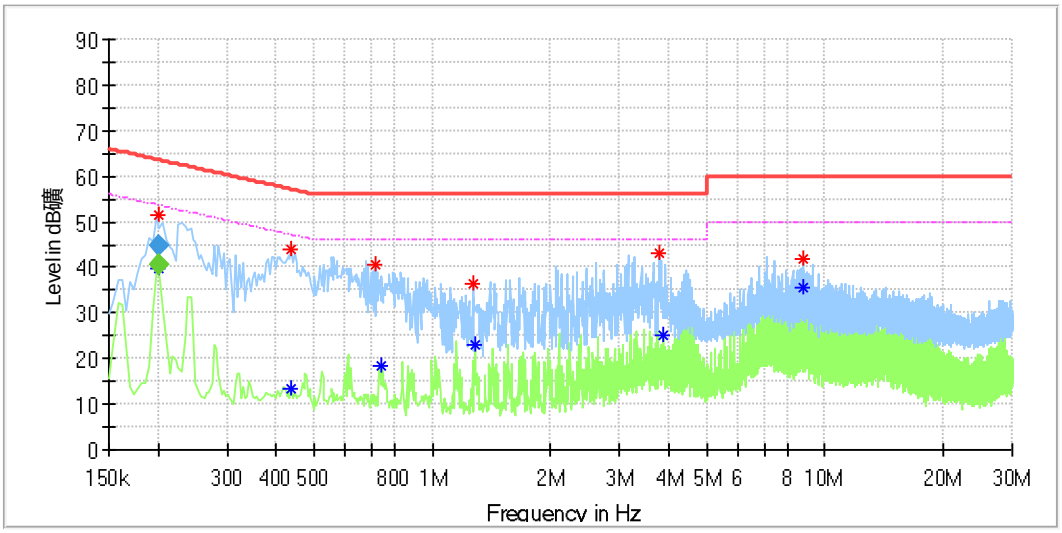
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.201500	---	40.31	53.55	13.24	1000.0	9.000	L1	9.9
0.221500	47.49	---	62.76	15.28	1000.0	9.000	L1	9.9

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input AC 230V+USB-C1 30W+USB-C2(100W)+USB-A(18W)+Car Port full load 12V 10A+AC Output (1500W)+WIFI+BLE
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 55032
Test By:/Review By:	Junhua/ Shower Dai
Tem./Hum./Pressure:	24.3°C/52.2%/101kPa
Remark:	SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.201500	---	39.85	53.53	13.68	N	9.8
0.201500	51.63	---	63.69	12.06	N	9.8
0.438000	---	13.27	47.10	33.83	N	9.8
0.438000	43.91	---	57.10	13.19	N	9.8
0.714000	40.43	---	56.00	15.57	N	9.8
0.742000	---	18.57	46.00	27.43	N	9.8
1.274000	36.33	---	56.00	19.67	N	9.8
1.286000	---	22.95	46.00	23.05	N	9.8
3.794000	42.98	---	56.00	13.02	N	9.9
3.854000	---	24.92	46.00	21.08	N	9.9
8.798000	---	35.55	50.00	14.45	N	10.0
8.798000	41.97	---	60.00	18.03	N	10.0

Final_Result

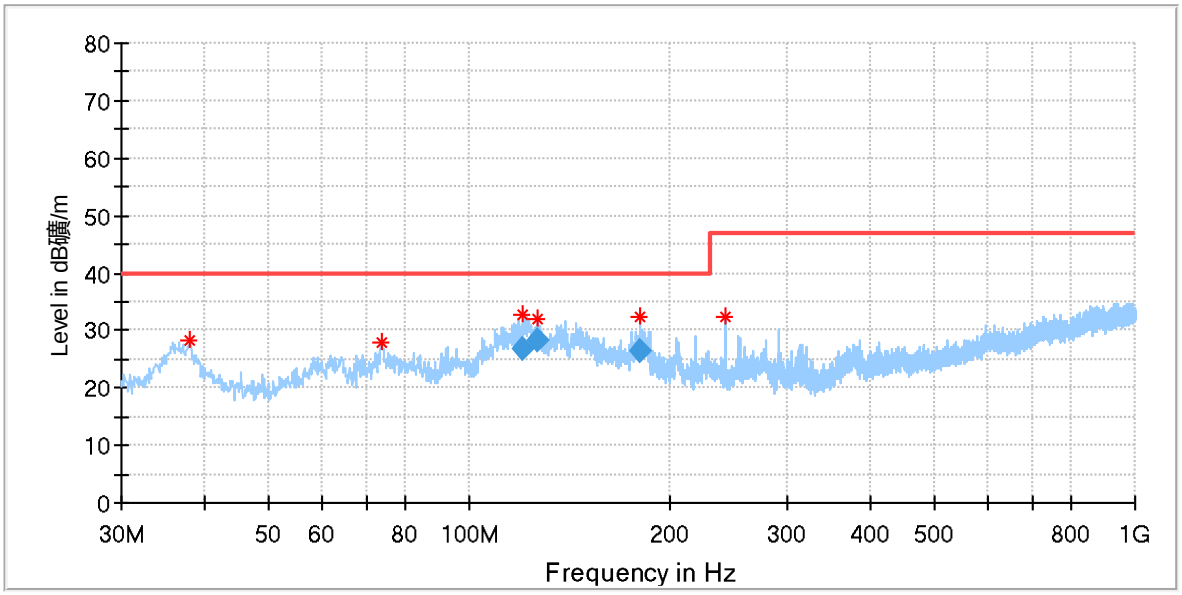
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.201500	---	40.41	53.55	13.14	1000.0	9.000	N	9.8
0.201500	44.89	---	63.55	18.66	1000.0	9.000	N	9.8

Appendix A.4: Test Results of Radiated Emission, Below 1GHz

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input AC 230V+USB-C1 30W+USB-C2(100W) +USB-A(18W) +Car Port full load 12V 8A+AC Output (1500W) +WIFI+BLE
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 55032
Test By:/Review By:	Birch Zhang / Shower Dai
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.954000	28.32	40.00	11.68	200.0	H	0.0	19.9
73.650000	27.86	40.00	12.14	200.0	H	250.0	17.7
120.506000	32.72	40.00	7.28	200.0	H	28.0	18.5
126.178000	32.16	40.00	7.84	200.0	H	245.0	19.0
180.493000	32.31	40.00	7.69	100.0	H	232.0	19.3
243.012000	32.19	47.00	14.81	100.0	H	163.0	19.5

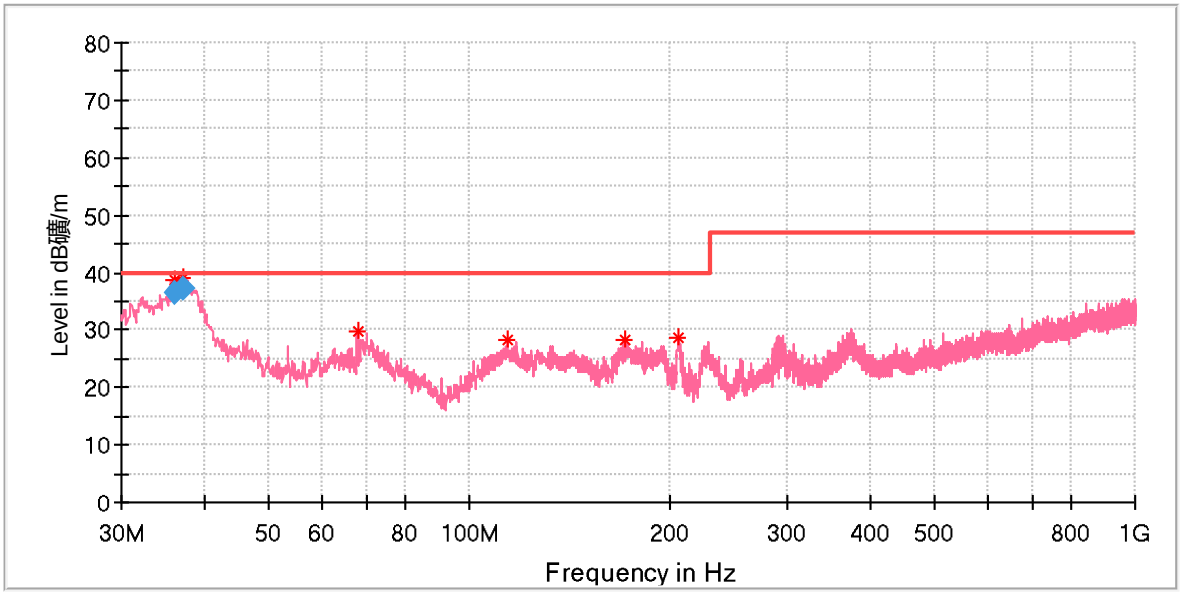
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
120.506000	26.97	40.00	13.03	1000.0	120.000	200.0	H	28.0	18.4
126.178000	28.43	40.00	11.57	1000.0	120.000	200.0	H	245.0	19.0
180.493000	26.59	40.00	13.41	1000.0	120.000	100.0	H	232.0	19.3

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input AC 230V+USB-C1 30W+USB-C2(100W) +USB-A(18W) +Car Port full load 12V 8A+AC Output (1500W) +WIFI+BLE
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 55032
Test By:/Review By:	Birch Zhang / Shower Dai
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.186000	38.72	40.00	1.28	100.0	V	242.0	19.6
37.035000	39.19	40.00	0.81	100.0	V	242.0	19.8
67.830000	29.60	40.00	10.40	200.0	V	200.0	18.8
114.002000	28.18	40.00	11.82	100.0	V	112.0	17.8
170.941000	28.10	40.00	11.90	100.0	V	204.0	20.4
205.861000	28.75	40.00	11.25	100.0	V	127.0	17.6

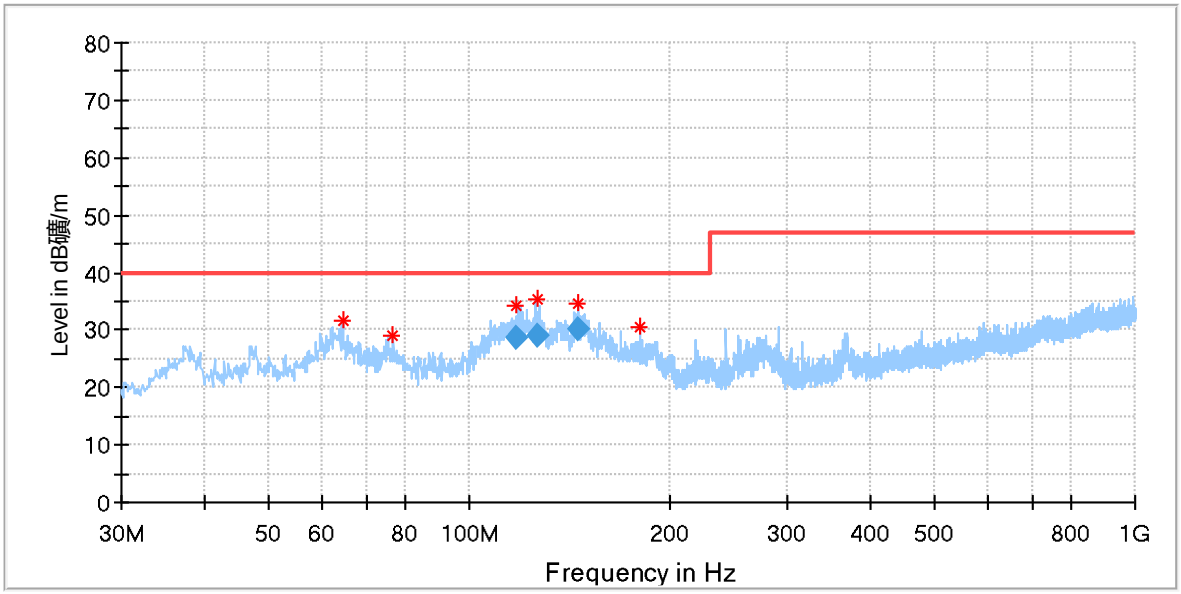
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.186000	36.44	40.00	3.56	1000.0	120.000	100.0	V	242.0	19.7
37.035000	37.29	40.00	2.71	1000.0	120.000	100.0	V	242.0	19.8

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input DC 16V+USB-C1 30W+USB-C2(100W) +USB-A(18W) +Car Port full load 12V 8A+AC Output (1500W) +WIFI+BLE
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 55032
Test By:/Review By:	Birch Zhang / Shower Dai
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
64.435000	31.45	40.00	8.55	200.0	H	0.0	19.4
76.754000	29.14	40.00	10.86	200.0	H	254.0	16.9
117.750000	34.31	40.00	5.69	200.0	H	245.0	18.2
126.253000	35.49	40.00	4.51	200.0	H	245.0	18.9
145.955000	34.58	40.00	5.42	200.0	H	235.0	20.7
180.447000	30.60	40.00	9.40	200.0	H	48.0	19.3

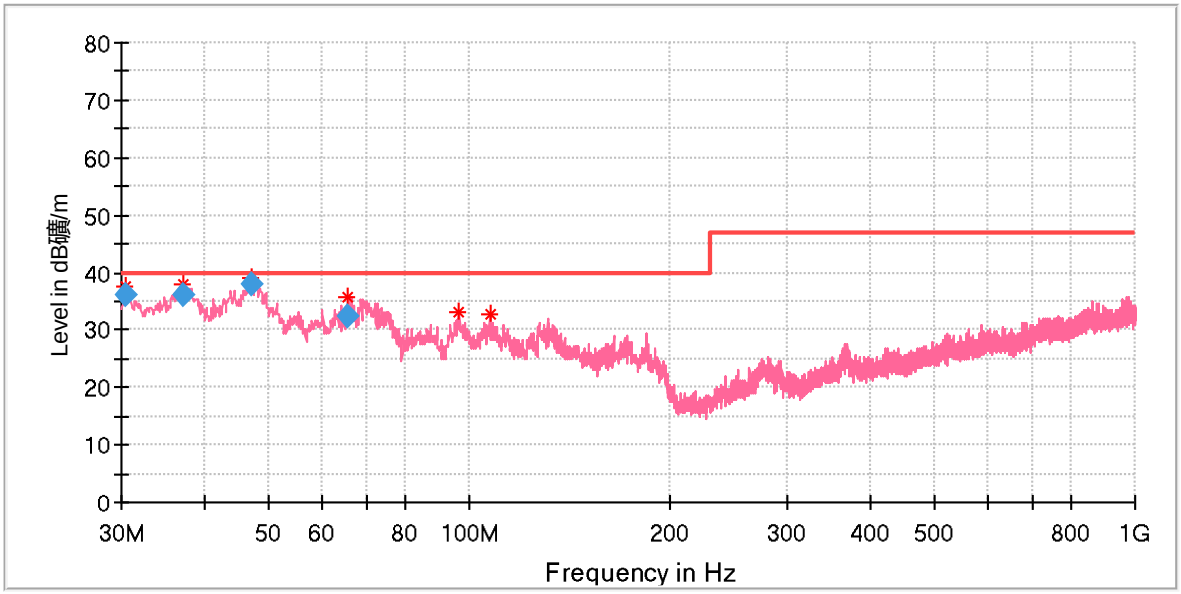
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
117.750000	28.65	40.00	11.35	1000.0	120.000	200.0	H	245.0	18.2
126.253000	28.84	40.00	11.16	1000.0	120.000	200.0	H	245.0	19.0
145.955000	30.06	40.00	9.94	1000.0	120.000	200.0	H	235.0	20.7

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input DC 16V+USB-C1 30W+USB-C2(100W) +USB-A(18W)+Car Port full load 12V 8A+AC Output (1500W)+WIFI+BLE
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 55032
Test By:/Review By:	Birch Zhang / Shower Dai
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.519000	37.74	40.00	2.26	100.0	V	228.0	18.7
37.138000	37.81	40.00	2.19	100.0	V	153.0	19.8
46.953000	39.21	40.00	0.79	100.0	V	153.0	20.6
65.775000	35.86	40.00	4.14	100.0	V	277.0	19.1
96.639000	32.98	40.00	7.02	100.0	V	119.0	15.6
107.212000	32.75	40.00	7.25	100.0	V	70.0	17.1

Final_Result

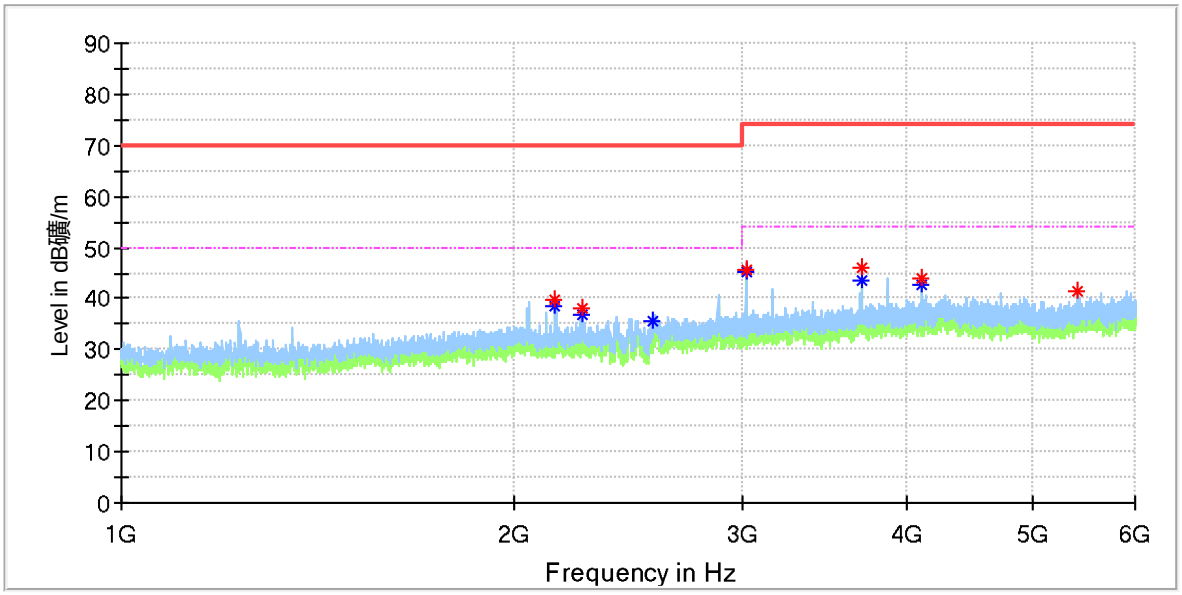
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.519000	35.95	40.00	4.05	1000.0	120.000	100.0	V	228.0	18.6
37.138000	36.27	40.00	3.73	1000.0	120.000	100.0	V	153.0	19.8
46.953000	37.95	40.00	2.05	1000.0	120.000	100.0	V	153.0	20.7
65.775000	32.21	40.00	7.79	1000.0	120.000	100.0	V	277.0	19.2

Appendix A.5: Test Results of Radiated Emission, Above 1GHz

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input AC 230V+USB-C1 30W+USB-C2(100W)+USB-A(18W)+Car Port full load 12V 8A+AC Output (1500W)+WIFI+BLE
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 301489-1/-17
Test By:/Review By:	Birch Zhang / Shower Dai
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



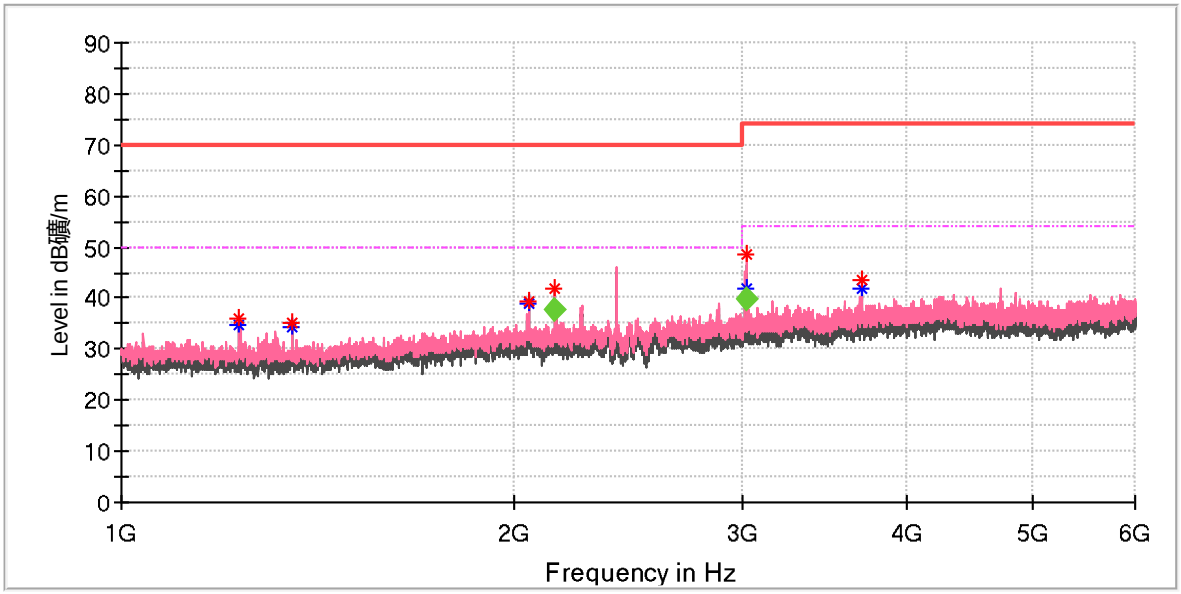
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4110.000000	---	42.77	54.00	11.23	100.0	H	33.0	0.4
4110.000000	43.75	---	74.00	30.25	100.0	H	33.0	0.4
2254.500000	---	36.87	50.00	13.13	100.0	H	75.0	-6.8
2254.500000	37.96	---	70.00	32.04	100.0	H	75.0	-6.8
3015.500000	45.68	---	74.00	28.32	100.0	H	85.0	-3.2
3015.500000	---	45.14	54.00	8.86	100.0	H	85.0	-3.2
3699.000000	45.84	---	74.00	28.16	100.0	H	106.0	-0.6
3699.000000	---	43.66	54.00	10.34	100.0	H	106.0	-0.6
2562.000000	---	35.74	50.00	14.26	100.0	H	127.0	-4.8
5410.000000	41.38	---	74.00	32.62	100.0	H	133.0	2.4
2154.000000	39.91	---	70.00	30.09	100.0	H	309.0	-6.9
2154.000000	---	38.64	50.00	11.36	100.0	H	309.0	-6.9

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input AC 230V+USB-C1 30W+USB-C2(100W) +USB-A(18W)+Car Port full load 12V 8A+AC Output (1500W)+WIFI+BLE
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 301489-1/-17
Test By:/Review By:	Birch Zhang / Shower Dai
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1232.500000	---	34.87	50.00	15.13	100.0	V	97.0	-11.0
1232.500000	35.83	---	70.00	34.17	100.0	V	97.0	-11.0
1352.500000	---	34.37	50.00	15.63	100.0	V	97.0	-9.9
1353.000000	35.22	---	70.00	34.78	100.0	V	97.0	-9.9
2054.000000	---	38.74	50.00	11.26	100.0	V	56.0	-6.8
2054.000000	39.54	---	70.00	30.46	100.0	V	56.0	-6.8
2153.300000	---	37.73	50.00	12.27	100.0	V	97.0	-6.9
2154.000000	42.03	---	70.00	27.97	100.0	V	97.0	-6.9
3014.900000	---	41.72	54.00	12.28	100.0	V	52.0	-3.2
3015.500000	48.38	---	74.00	25.62	100.0	V	52.0	-3.2
3697.000000	---	41.75	54.00	12.25	100.0	V	277.0	-0.6
3698.000000	43.49	---	74.00	30.51	100.0	V	97.0	-0.6

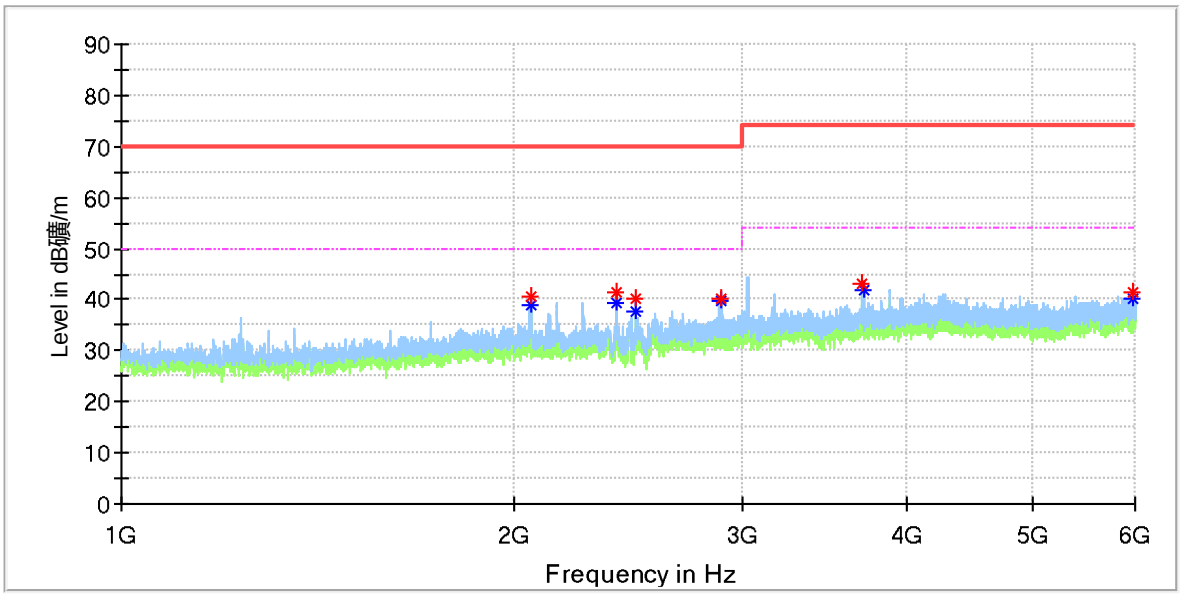
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2153.300000	---	37.77	50.00	12.23	1000.0	1000.00	100.0	V	97.0	-6.9
3014.900000	---	39.85	54.00	14.15	1000.0	1000.00	100.0	V	52.0	-3.1

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input DC 16V+USB-C1 30W+USB-C2(100W)+USB-A(18W)+Car Port full load 12V 8A+AC Output (1500W)+WIFI+BLE
Test Voltage:	DC 12V
Test Standard:	EN 301489-1/-17
Test By:/Review By:	Birch Zhang / Shower Dai
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



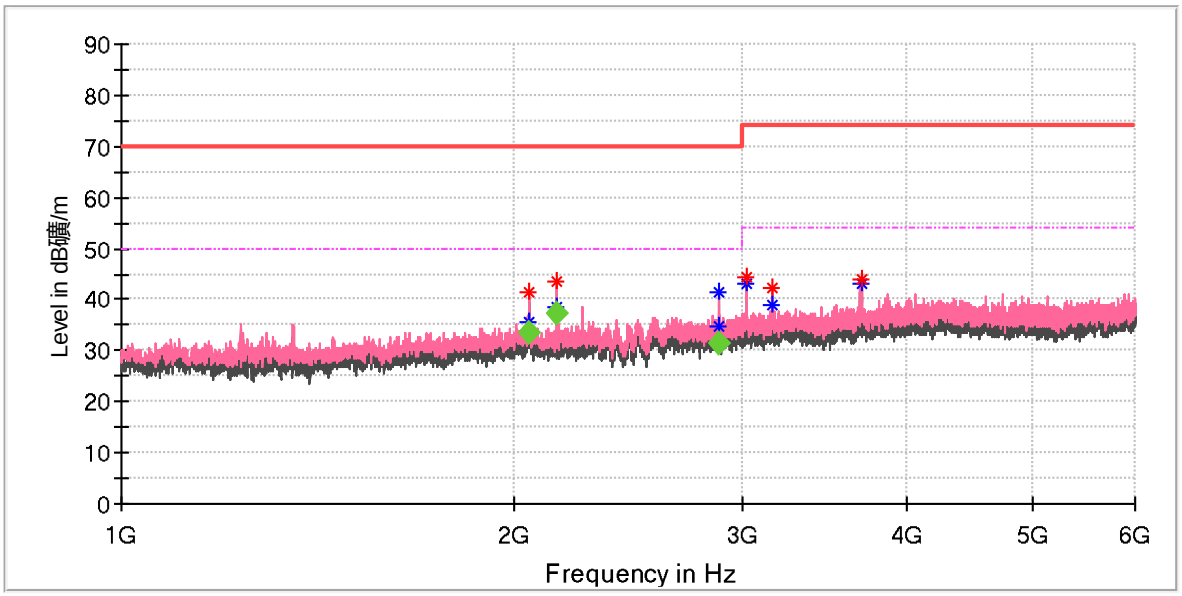
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3708.000000	43.32	---	74.00	30.68	100.0	H	0.0	-0.6
2059.500000	---	38.94	50.00	11.06	100.0	H	79.0	-6.9
2060.000000	40.79	---	70.00	29.21	100.0	H	79.0	-6.9
5983.000000	41.34	---	74.00	32.66	100.0	H	139.0	3.4
5983.000000	---	40.10	54.00	13.90	100.0	H	139.0	3.4
3715.500000	---	41.98	54.00	12.02	100.0	H	165.0	-0.7
2882.500000	40.36	---	70.00	29.64	100.0	H	302.0	-4.2
2882.500000	---	39.61	50.00	10.39	100.0	H	302.0	-4.2
2402.500000	---	39.44	50.00	10.56	100.0	H	329.0	-6.3
2402.500000	41.32	---	70.00	28.68	100.0	H	329.0	-6.3
2480.000000	---	37.68	50.00	12.32	100.0	H	329.0	-5.6
2480.000000	40.02	---	70.00	29.98	100.0	H	329.0	-5.6

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Order Number:	168477898
Model:	JE-1000D
Test Mode:	Input DC 16V+USB-C1 30W+USB-C2(100W)+USB-A(18W)+Car Port full load 12V 8A+AC Output (1500W)+WIFI+BLE
Test Voltage:	DC 12V
Test Standard:	EN 301489-1/-17
Test By:/Review By:	Birch Zhang / Shower Dai
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2054.500000	---	35.57	50.00	14.43	100.0	V	324.0	-6.8
2055.500000	41.33	---	70.00	28.67	100.0	V	324.0	-6.8
2155.000000	---	38.52	50.00	11.48	100.0	V	107.0	-6.9
2156.000000	43.56	---	70.00	26.44	100.0	V	107.0	-6.9
2876.800000	---	34.75	50.00	15.25	100.0	V	46.0	-4.2
2877.000000	---	41.44	50.00	8.56	100.0	V	46.0	-4.2
3018.500000	44.57	---	74.00	29.43	100.0	V	46.0	-3.2
3019.500000	---	42.96	54.00	11.04	100.0	V	79.0	-3.2
3159.500000	---	38.88	54.00	15.12	100.0	V	41.0	-2.5
3159.500000	42.09	---	74.00	31.91	100.0	V	41.0	-2.5
3699.500000	---	43.10	54.00	10.90	100.0	V	265.0	-0.6
3700.000000	44.10	---	74.00	29.90	100.0	V	265.0	-0.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2054.500000	---	33.47	50.00	16.53	1000.0	1000.00	100.0	V	324.0	-6.8
2155.000000	---	37.38	50.00	12.62	1000.0	1000.00	100.0	V	107.0	-6.9
2876.800000	---	31.36	50.00	18.64	1000.0	1000.00	100.0	V	46.0	-4.2

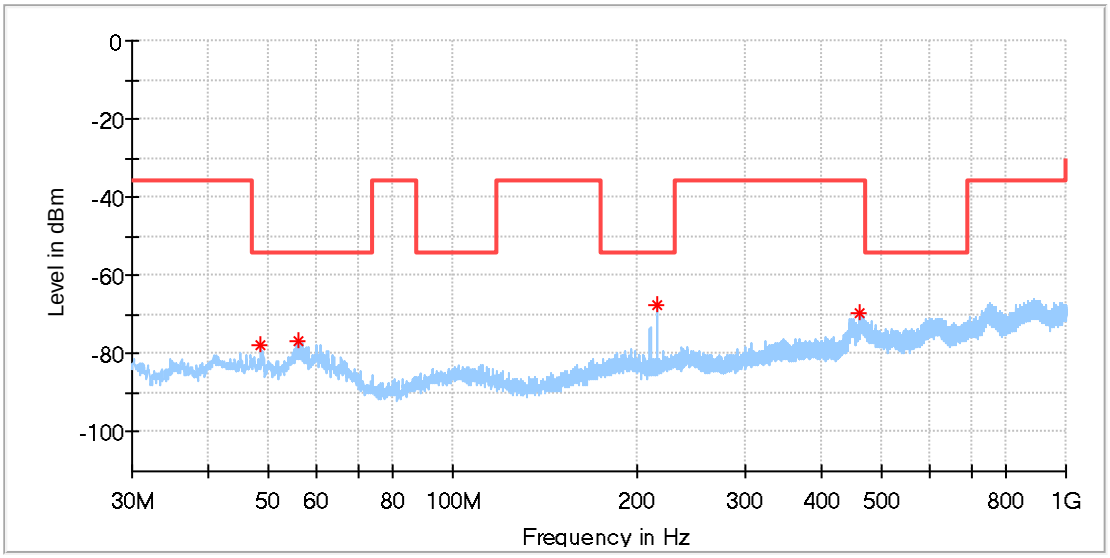
Appendix A.6: Test Results of Radiated Spurious Emission

For 2.4G WLAN

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-001
Test Mode:	TX_11B H CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



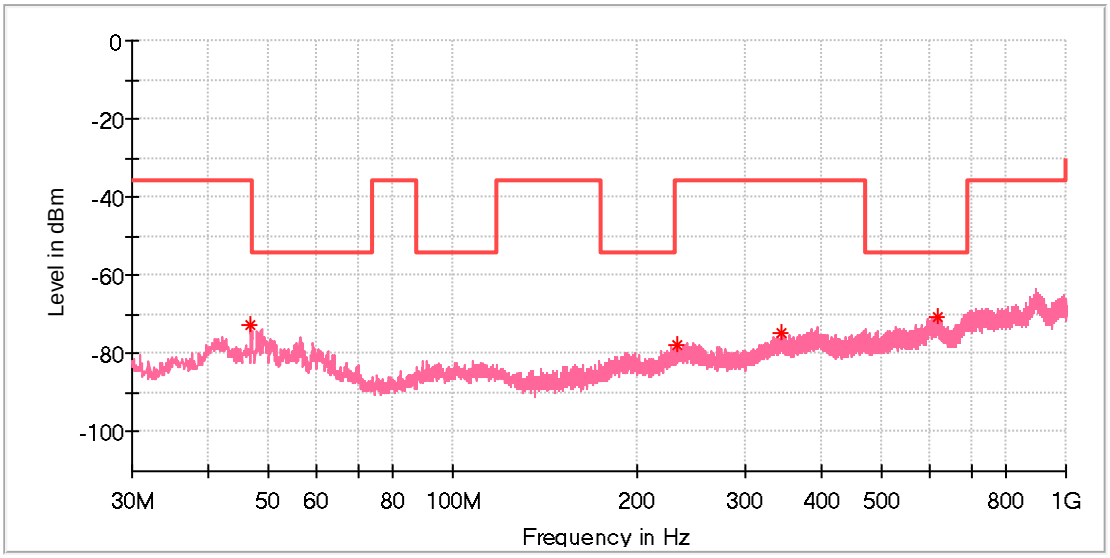
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
48.721000	-78.01	-54.00	24.01	150.0	H	42.0	-118.8
56.190000	-76.86	-54.00	22.86	150.0	H	0.0	-117.5
215.658000	-67.31	-54.00	13.31	150.0	H	35.0	-118.1
461.941000	-69.64	-36.00	33.64	150.0	H	201.0	-109.8

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-001
Test Mode:	TX_11B H CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



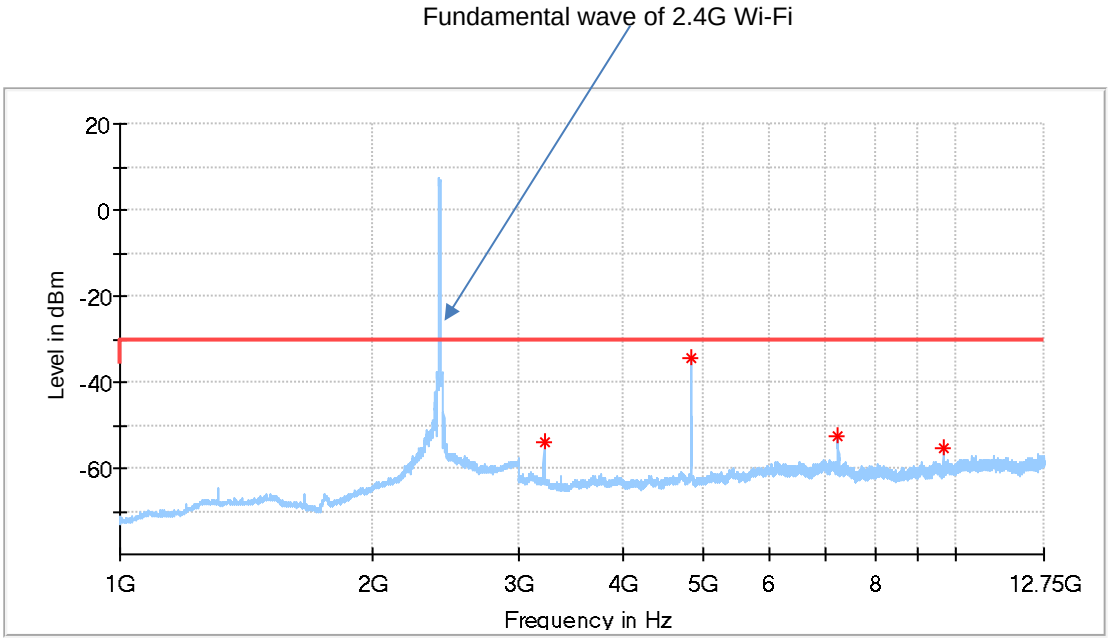
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
46.878000	-72.64	-36.00	36.64	150.0	V	340.0	-116.0
231.954000	-77.80	-36.00	41.80	150.0	V	121.0	-116.8
343.407000	-74.50	-36.00	38.50	150.0	V	45.0	-112.9
619.760000	-70.43	-54.00	16.43	150.0	V	0.0	-109.0

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-007
Test Mode:	TX_11B H CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



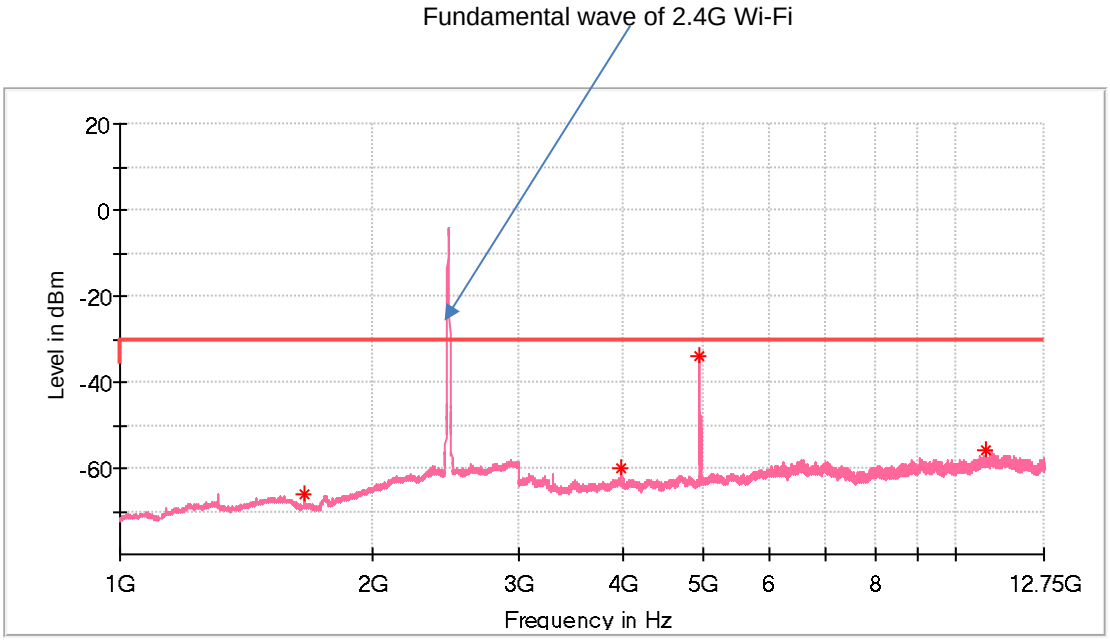
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3216.000000	-53.94	-30.00	23.94	150.0	H	196.0	-96.6
4824.000000	-34.29	-30.00	4.29	150.0	H	202.0	-94.8
7236.696429	-52.59	-30.00	22.59	150.0	H	186.0	-91.7
9647.892857	-55.38	-30.00	25.38	150.0	H	301.0	-91.8

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-007
Test Mode:	TX_11B H CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



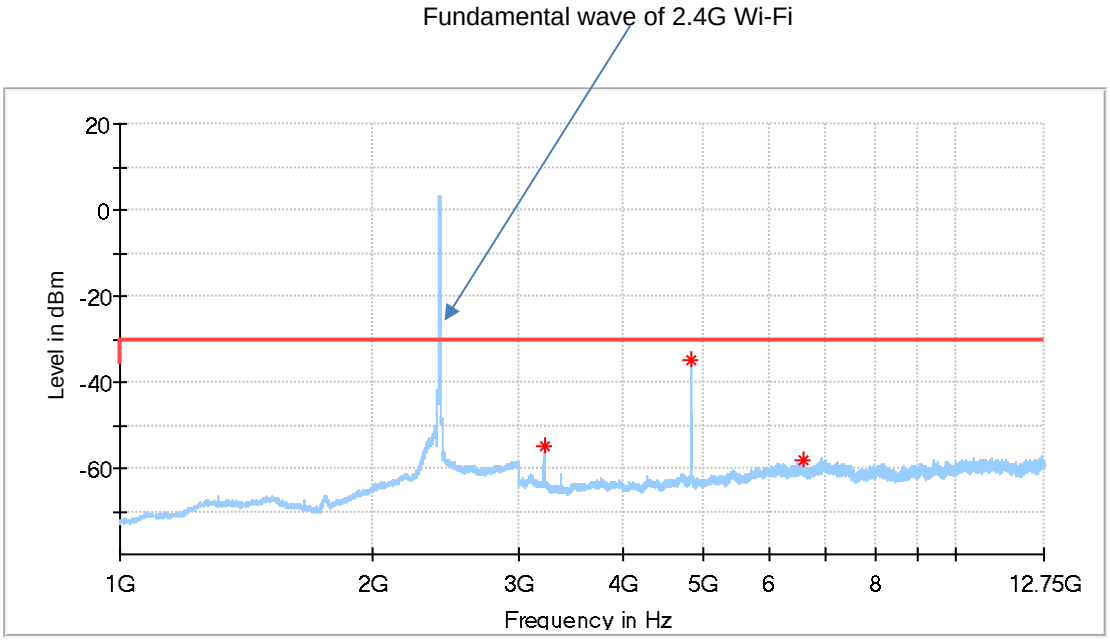
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1665.000000	-66.07	-30.00	36.07	150.0	V	188.0	-99.0
3986.000000	-59.92	-30.00	29.92	150.0	V	180.0	-96.3
4944.000000	-34.05	-30.00	4.05	150.0	V	90.0	-95.1
10886.035714	-56.02	-30.00	26.02	150.0	V	7.0	-89.6

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-007
Test Mode:	TX_11B L CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



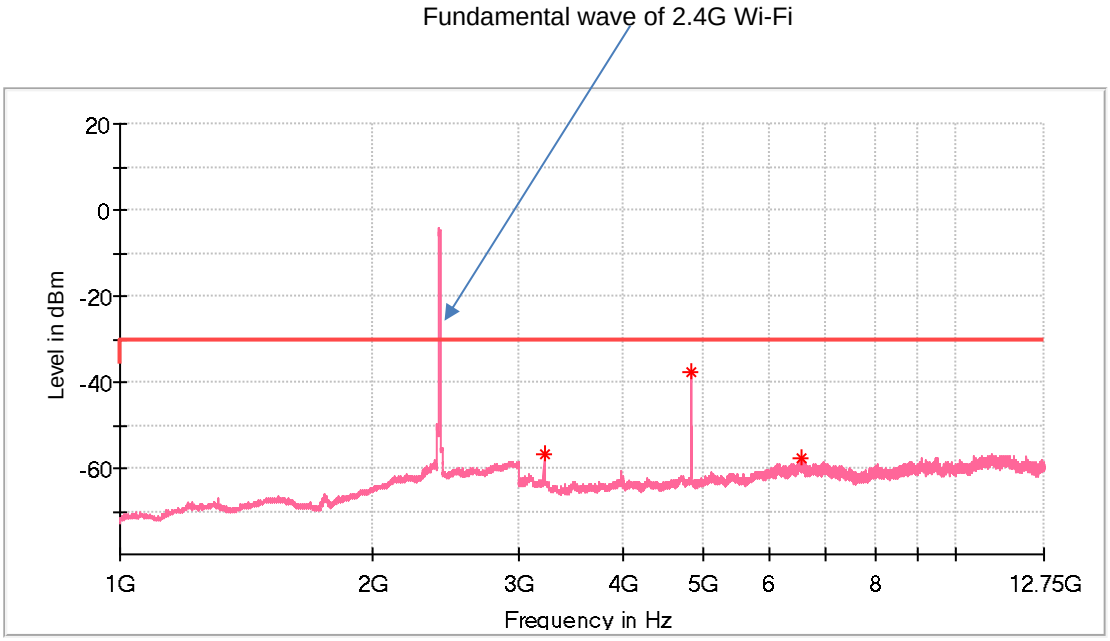
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3215.500000	-54.89	-30.00	24.89	150.0	H	228.0	-96.6
4824.000000	-34.75	-30.00	4.75	150.0	H	174.0	-94.8
6560.732143	-58.06	-30.00	28.06	150.0	H	3.0	-91.6

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-007
Test Mode:	TX_11B L CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



Critical_Freqs

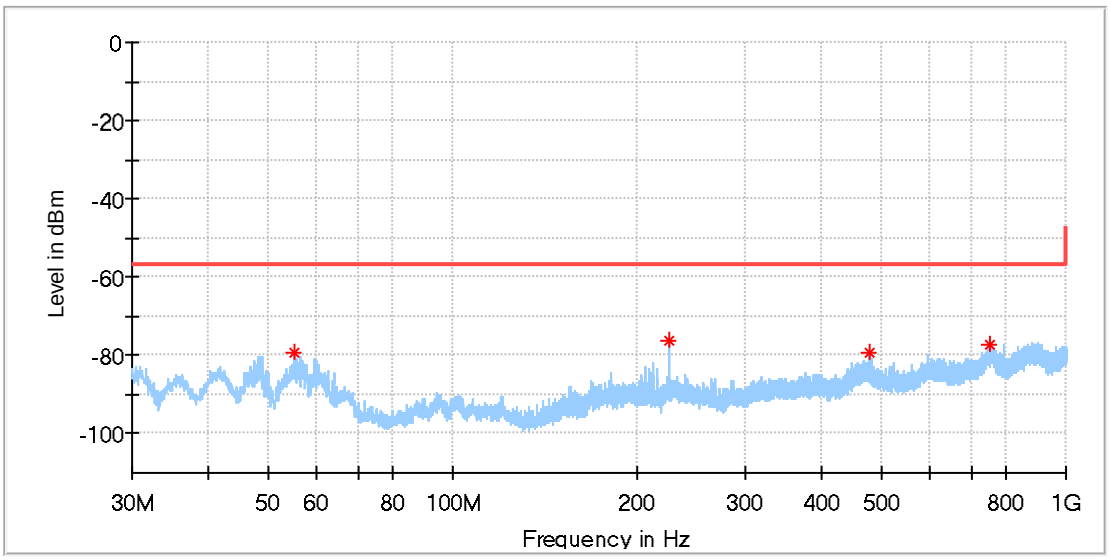
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3216.000000	-56.77	-30.00	26.77	150.0	V	84.0	-96.3
4824.000000	-37.53	-30.00	7.53	150.0	V	95.0	-95.1
6547.232143	-57.67	-30.00	27.67	150.0	V	0.0	-91.1

For BLE

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-001
Test Mode:	TX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



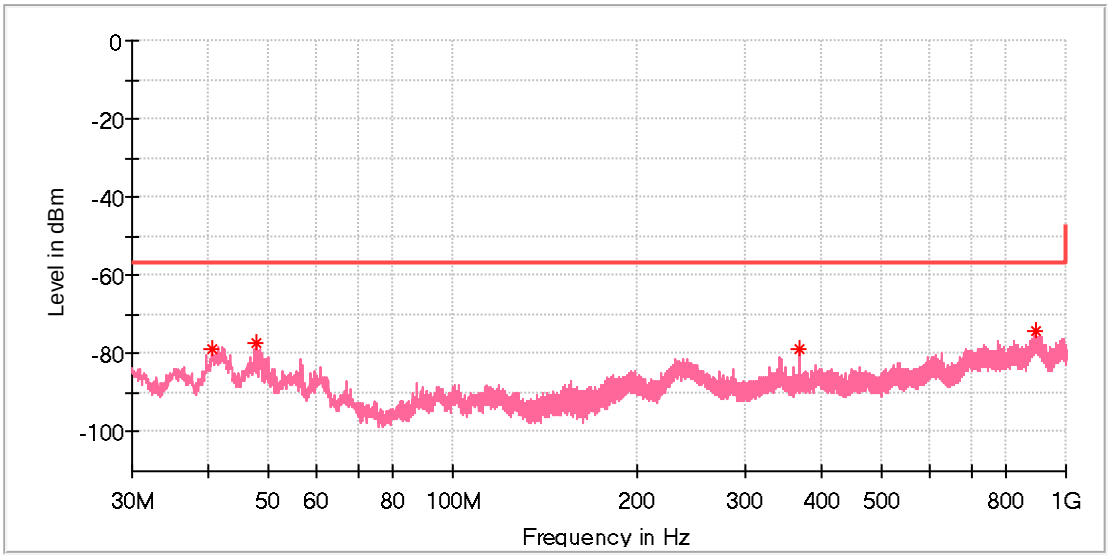
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.171500	-79.18	-57.00	22.18	150.0	H	326.0	-117.8
225.552000	-76.08	-57.00	19.08	150.0	H	50.0	-116.8
478.819000	-79.35	-57.00	22.35	150.0	H	181.0	-110.1
750.710000	-77.08	-57.00	20.08	150.0	H	0.0	-105.1

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-001
Test Mode:	TX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



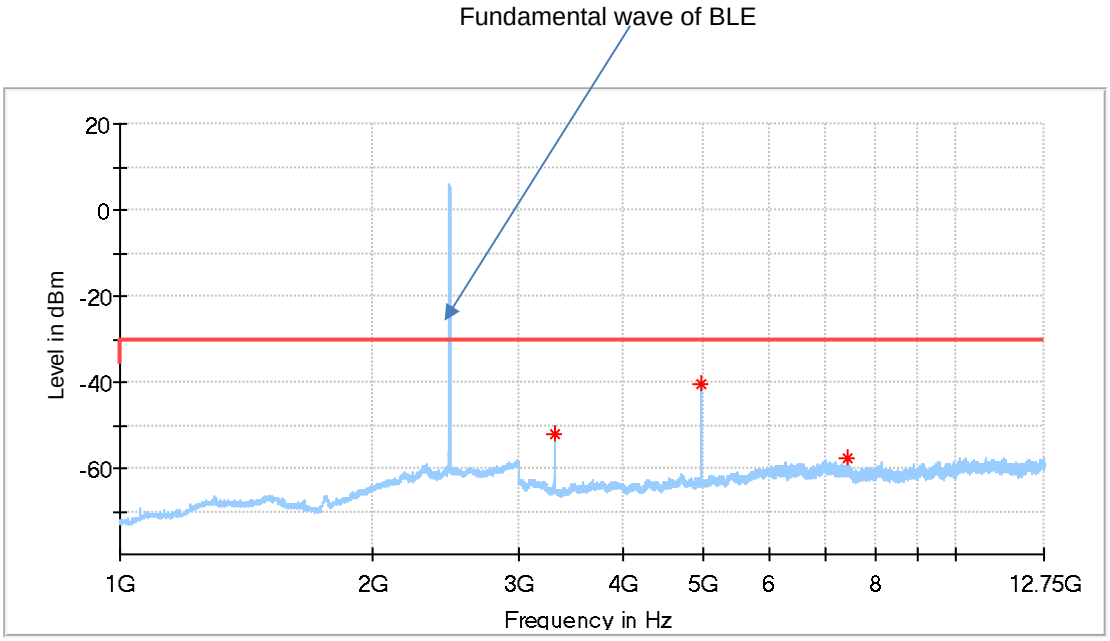
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
40.427500	-78.70	-57.00	21.70	150.0	V	311.0	-114.3
47.945000	-77.40	-57.00	20.40	150.0	V	268.0	-116.9
367.075000	-78.62	-57.00	21.62	150.0	V	335.0	-113.3
892.572500	-74.20	-57.00	17.20	150.0	V	319.0	-102.4

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-007
Test Mode:	TX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



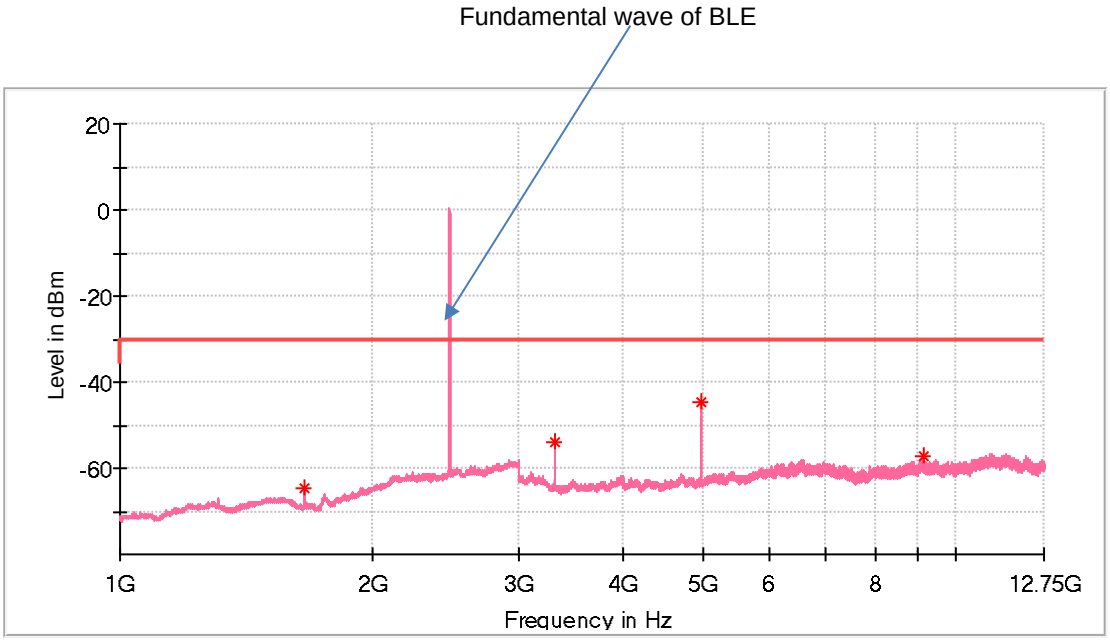
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3306.500000	-52.11	-30.00	22.11	150.0	H	212.0	-97.5
4960.000000	-40.34	-30.00	10.34	150.0	H	154.0	-94.8
7440.642857	-57.68	-30.00	27.68	150.0	H	199.0	-91.3

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-007
Test Mode:	TX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



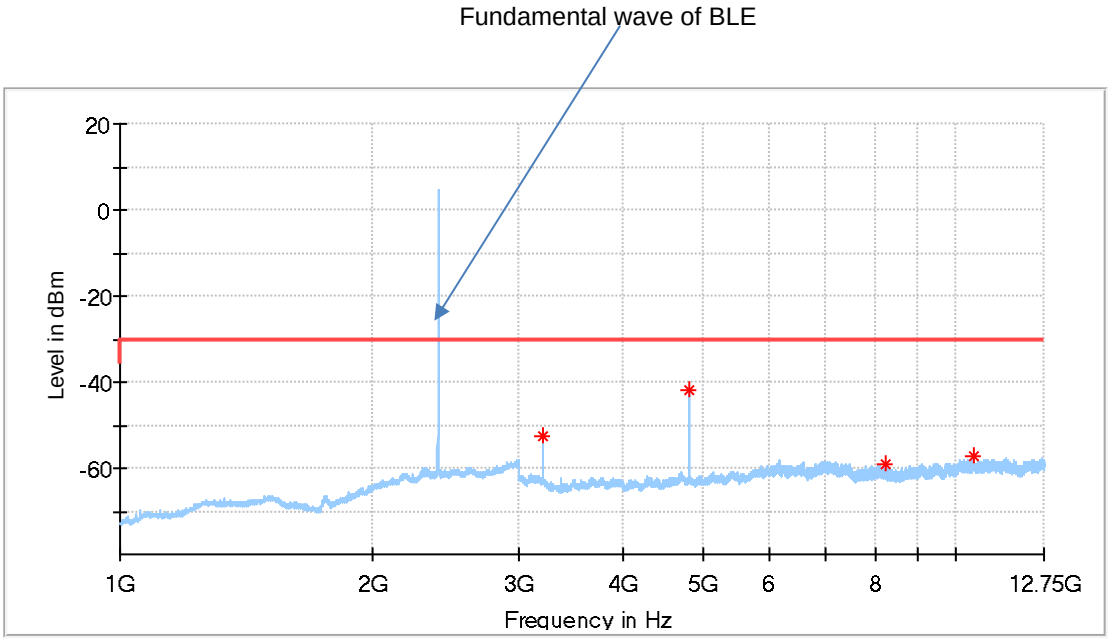
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1665.500000	-64.71	-30.00	34.71	150.0	V	200.0	-99.0
3306.500000	-53.87	-30.00	23.87	150.0	V	112.0	-97.5
4960.000000	-44.60	-30.00	14.60	150.0	V	80.0	-95.0
9135.857143	-57.41	-30.00	27.41	150.0	V	23.0	-90.8

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-007
Test Mode:	TX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



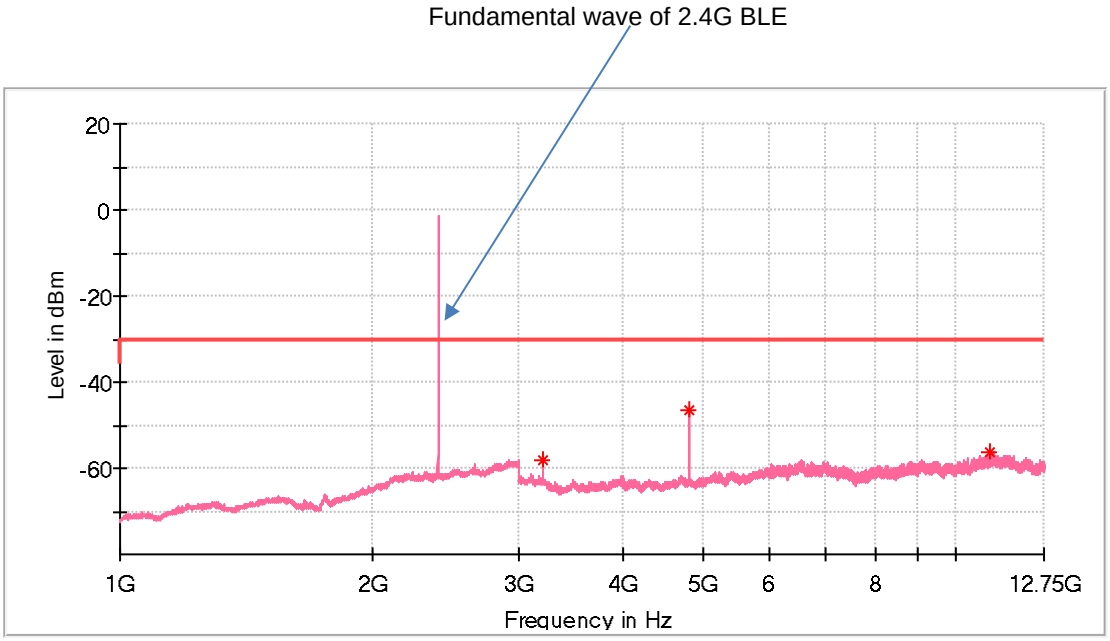
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3202.500000	-52.75	-30.00	22.75	150.0	H	295.0	-96.3
4804.000000	-42.03	-30.00	12.03	150.0	H	234.0	-94.8
8232.803572	-59.12	-30.00	29.12	150.0	H	0.0	-91.9
10487.785714	-57.34	-30.00	27.34	150.0	H	68.0	-90.7

Test Report

EUT Information

EUT Name:	Jackery Explorer 1000
Model:	JE-1000D
Sample No:	A003716894-007
Test Mode:	TX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.6;Humi:52%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3202.500000	-58.29	-30.00	28.29	150.0	V	202.0	-96.0
4804.000000	-46.40	-30.00	16.40	150.0	V	87.0	-95.1
11003.196429	-56.27	-30.00	26.27	150.0	V	183.0	-89.4

--End of Appendix--