

CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 3 (DTS)

TEST REPORT

For

Portable Power Station

MODEL NUMBER: SR0KW3L-SG1-US, PS300-US, PW601-300, XP2W300USCA, HWBG200

REPORT NUMBER: E04A24030583F00301

ISSUE DATE: April 1, 2024

FCC ID: 2BBDT-SR0KW3L

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Prepared for

CE LINK LIMITED

ROOM 2204 22/F TUNG CHIU COMMERCIAL CENTER 193 LOCKHART ROAD WANCHAI HONG KONG SAR CHINA

Prepared by

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TRF No.: 04-E001-1A Global Testing, Great Quality.

REPORT NO.: E04A24030583F00302 Page 2 of 53

Revision History

Rev.	Issue Date	Revisions	Revised By
VO	April 1, 2024	Initial Issue	

REPORT NO.: E04A24030583F00302 Page 3 of 53

Summary of Test Results							
Test Item	Clause	Limit/Requirement	Result				
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass				
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass				
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Pass				
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass				
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass				
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 5.5	Pass				
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass				
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass				

^{*}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C

ISED RSS-247 ISSUE 3 (DTS)> when <Accuracy Method> decision rule is applied.

REPORT NO.: E04A24030583F00302 Page 4 of 53

CONTENTS

1. ATT	ESTATION OF TEST RESULTS	5
2. TES	T METHODOLOGY	6
3. FAC	ILITIES AND ACCREDITATION	6
4. CAL	IBRATION AND UNCERTAINTY	7
4.1.	MEASURING INSTRUMENT CALIBRATION	7
4.2.	MEASUREMENT UNCERTAINTY	7
5. EQU	IPMENT UNDER TEST	8
5.1.	DESCRIPTION OF EUT	8
5.2.	CHANNEL LIST	10
5.3.	MAXIMUM AVERAGE EIRP	10
5.4.	TEST CHANNEL CONFIGURATION	10
5.5.	THE WORSE CASE POWER SETTING PARAMETER	10
5.6.	DESCRIPTION OF AVAILABLE ANTENNAS	11
5.7.	SUPPORT UNITS FOR SYSTEM TEST	11
5.8.	SETUP DIAGRAM	11
6. MEA	SURING EQUIPMENT AND SOFTWARE USED	12
7. ANT	ENNA PORT TEST RESULTS	14
7.1.	Conducted Output Power	14
7.2.	6dB Bandwidth and 99% Occupied Bandwidth	15
7.3.	Power Spectral Density	17
7.4.	Conducted Band edge and spurious emission	18
7.5.	Duty Cycle	20
8. RAD	NATED TEST RESULTS	21
9. ANT	ENNA REQUIREMENT	39
10.	AC POWER LINE CONDUCTED EMISSION	40
11.	TEST DATA	43
APPEND	IX: PHOTOGRAPHS OF TEST CONFIGURATION	44
APPEND	IX: PHOTOGRAPHS OF THE EUT	46

Page 5 of 53

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: CE LINK LIMITED

Address: ROOM 2204 22/F TUNG CHIU COMMERCIAL CENTER 193

LOCKHART ROAD WANCHAI HONG KONG SAR CHINA

Manufacturer Information

Company Name: Dongguan Hinen New Energy Technology Co., Ltd

Address: No.24 Dongkang Road, Dalingshan Town, Dongguan City,

Guangdong Province, China

EUT Information

EUT Name: Portable Power Station

Model: SR0KW3L-SG1-US, PS300-US, PW601-300, XP2W300USCA,

HWBG200

Sample Received Date: March 18, 2024

Sample Status: Normal

Sample ID: A24030583 002

Date of Tested: March 18, 2024 to March 28, 2024

CERTIFICAT

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
CFR 47 FCC PART 15 SUBPART C	Dana			
ISED RSS-247 ISSUE 3 (DTS)	Pass			

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REPORT NO.: E04A24030583F00302 Page 6 of 53

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 3 (DTS), SS

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343)
Accreditation Certificate	Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714)
	Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

REPORT NO.: E04A24030583F00302 Page 7 of 53

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
DTS Bandwidth	1.96	±9.2 PPM
20dB Emission Bandwidth	1.96	±9.2 PPM
Carrier Frequency Separation	1.96	±9.2 PPM
Time of Occupancy	1.96	±0.57%
Conducted Output Power	1.96	±1.5 dB
Power Spectral Density Level	1.96	±1.9 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Test Item	Measurement Frequency Range	К	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

REPORT NO.: E04A24030583F00302 Page 8 of 53

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Portable Power Station	
Model		SR0KW3L-SG1-US	
Ratings		Battery capacity: 204.8Wh, 25.6V == ,8Ah Discharge temperature range: -20-45°C Charge temperature range: 0-45°C AC Input: 100-120V~, 60Hz, 6A max., 550W max. Solar input: 12-24V == 8A max., 120W max. Car input: 12V == 8A max., 96W max. AC socket (Inverter Mode): 100-120V~, 60Hz, 3A max., Total 300W max. AC socket (Bypass Mode): 100-120V~, 60Hz, 3A max., Total 300W max. Car charger output: 12.6V == 8A, 100W max. USB-C1/C2: 5/9/12/15V == 3A, 20V == 3.25A, 65W max. USB-C1+C2: 5/9V == 3A, 12V == 2.5A, 15V == 2A, 20V == 1.5A, Total 60W max. USB-A1/A2 output: 5V == 2.4A, 12W max. Total output: 300W max.	
Power Supply	AC	120V~ 60Hz	
1 Owel Supply	Battery		

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth 5.2
Bluetooth Mode:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Maximum Peak Power:	3.44 dBm
Antenna Type:	PCB Antenna
Antenna Gain:	2.21 dBi
Hardware version:	V1.0
Software version:	V1.0

REPORT NO.: E04A24030583F00302 Page 9 of 53

Model list:

Model No.:	Trade mark	
SR0KW3L-SG1-US	CE-LINK	iHome iHome
PS300-US	HINEN	hinen
XP2W300USCA	xtorm	xtorm
PW601-300	WECONNEX	Y/ECONVEX
HWBG200	Honeywell	

Note: For the ISED certification, only the model SR0KW3L-SG1-US is applied for sale in the Canadian market.

Page 10 of 53

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	11	2424	22	2446	33	2468
1	2404	12	2426	23	2448	34	2470
2	2406	13	2428	24	2450	35	2472
3	2408	14	2430	25	2452	36	2474
4	2410	15	2432	26	2454	37	2476
5	2412	16	2434	27	2456	38	2478
6	2414	17	2436	28	2458	39	2480
7	2416	18	2438	29	2460	/	/
8	2418	19	2440	30	2462	/	/
9	2420	20	2442	31	2464	/	/
10	2422	21	2444	32	2468	/	/

5.3. MAXIMUM PEAK EIRP

Test Mode Frequency (MHz)		Channel Number	Maximum Peak Output Power (dBm)	Maximum EIRP (dBm)
LE 1M	2402 ~ 2480	0-39[40]	3.44	5.65

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
LE 1M	CH 0(Low Channel), CH 19(MID Channel), CH 39(High Channel)	2402 MHz, 2440 MHz, 2480 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

Th	The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software Version Wifi Test Tool v1.6.0 release				se	
Modulation	Transmit	Test Software setting value			
Type	Antenna Number	CH 0 CH 19 CH 39			
GFSK(1Mbps)	1	1	1	1	

Page 11 of 53

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	PCB Antenna	2.2

Test Mode	Transmit and Receive Mode	Description
LE 1M	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
Note:		

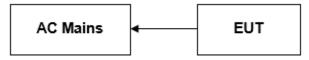
5.7. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

Equipment	Manufacturer	Model No.
Portable Power Station	Dongguan Hinen New Energy Technology Co., Ltd	SR0KW3L-SG1-US
PC	Lenovo	T14

5.8. SETUP DIAGRAM

AC conducted emission



Radiated Emission:



RF conducted:



REPORT NO.: E04A24030583F00302 Page 12 of 53

6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2023/09/18	2024/09/17
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2023/09/18	2024/09/17
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2023/09/18	2024/09/17
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2023/09/18	2024/09/17
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2023/09/18	2024/09/17
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2023/09/18	2024/09/17
temperature humidity chamber	Espec	SH-241	SH-241-2014	2023/09/18	2024/09/17
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2023/09/18	2024/09/17
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC (Ver.FA- 03A2 RE)	N/A	N/A	N/A

REPORT NO.: E04A24030583F00302 Page 13 of 53

	Test Equipment of Radiated emissions above 1GHz						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29		
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2023/09/18	2024/09/17		
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17		
Pre-Amplifier	A-INFO	HPA-1G1850	HYPA21003	2023/09/18	2024/09/17		
Horn antenna	A-INFO	3117	246069	2022/03/11	2025/03/10		
Pre-Amplifier	ZKJC	HPA-184057	HYPA21004	2023/09/18	2024/09/17		
Horn antenna	ZKJC	3116C	246265	2022/03/29	2025/03/28		
Test Software	Farad	EZ-EMC (Ver.FA- 03A2 RE+)	N/A	N/A	N/A		

Test Equipment of Conducted emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28	
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2023/09/18	2024/09/17	
LISN/AMN	Rohde & Schwarz	ENV216	102843	2023/09/18	2024/09/17	
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2023/09/18	2024/09/17	
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A	

Page 14 of 53

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3					
Section Test Item Limit Frequency Range (MHz)					
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5		

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST ENVIRONMENT

Temperature	24℃	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

Page 15 of 53

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3						
Section	Test Item	Limit	Frequency Range (MHz)			
CFR 47 FCC 15.247(a)(2) 6 dB Bandwidth ≥ 500 kHz 2400-2483.5						
ISED RSS-Gen Clause 6.7 99 % Occupied For reporting purposes only. 2400-2483.5						

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test	
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW	
Detector	Peak	
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth	
VBW	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW	
Trace	Max hold	
Sweep	Auto couple	

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST ENVIRONMENT

Temperature	24 ℃	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TRF No.: 04-E001-1A

Page 16 of 53

TEST RESULTS

Please refer to section "Test Data" - Appendix A

TRF No.: 04-E001-1A

Page 17 of 53

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit Frequency Rang (MHz)			Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test	
Detector	PEAK	
RBW	3 kHz ≤ RBW ≤ 100 kHz	
VBW	≥3 × RBW	
Span	1.5 x DTS bandwidth	
Trace	Max hold	
Sweep time	Auto couple	

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST ENVIRONMENT

Temperature	24 °C	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

REPORT NO.: E04A24030583F00302 Page 18 of 53

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7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			TS
Section	Test Item	Limit	TES
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power	T PRO CED URE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test	
Detector	Peak	
RBW	100 kHz	
VBW	≥3 × RBW	
Span	1.5 x DTS bandwidth	
Trace	Max hold	
Sweep time	Auto couple.	

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Change the settings for emission level measurement:

	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST ENVIRONMENT

Temperature	24 ℃	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TRF No.: 04-E001-1A

Page 19 of 53

TEST RESULTS

Please refer to section "Test Data" - Appendix A

TRF No.: 04-E001-1A

Page 20 of 53

7.5. DUTY CYCLE

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST ENVIRONMENT

Temperature	24 ℃	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

REPORT NO.: E04A24030583F00302 Page 21 of 53

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range	Frequency Range Field Strength Limit		gth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.9	5
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
	500	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz)	Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)		
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz						
Frequency Magnetic field strength (H-Field) (µA/m) Measurement distance (m)						
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300				
490 - 1705 kHz	63.7/F (F in kHz)	30				
1.705 - 30 MHz	0.08	30				

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	158.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.028	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
8.31175 - 8.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5480	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		
	ds listed in table 7 and in bands above 38.6	

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note:1. Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2. Above 38.6c

TRF No.: 04-E001-1A

Page 23 of 53

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto

Page 24 of 53

Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1G

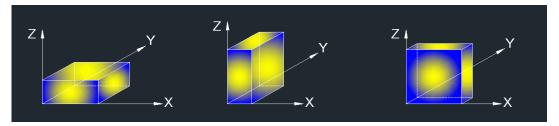
The setting of the spectrum analyser

RBW	1 MHz
1\/ B \/\/	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

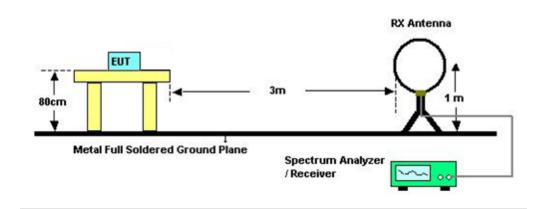
REPORT NO.: E04A24030583F00302 Page 25 of 53

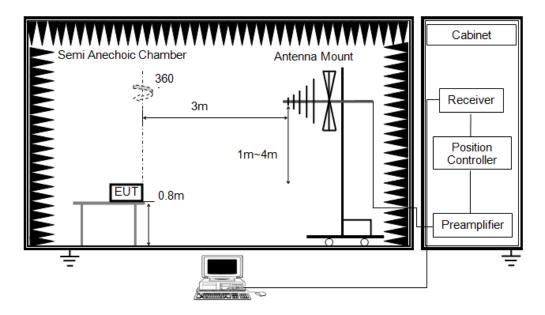
X axis, Y axis, Z axis positions:



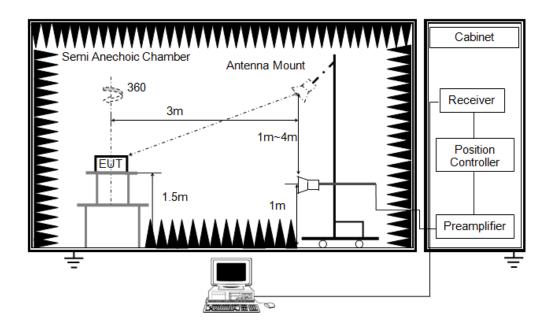
Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP





REPORT NO.: E04A24030583F00302 Page 26 of 53



TEST ENVIRONMENT

Temperature	23℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

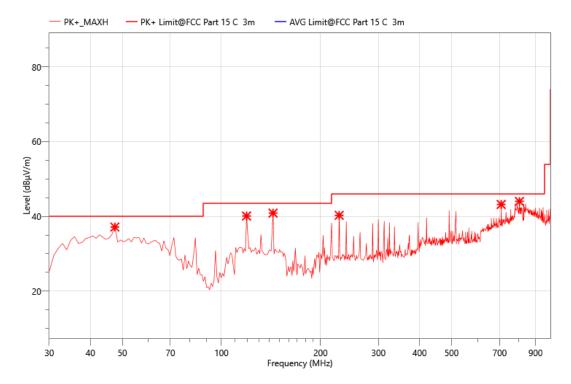
TEST RESULTS

REPORT NO.: E04A24030583F00302 Page 27 of 53

Radiated Spurious Emission:

The data of the mode (2402MHz) are recorded in the following pages.

The worst result as bellow:



Site: LAB
Limit: FCC Part 15 C 3m Radiation(QP)
EUT: Portable Power Station
M/N.: SR0KW3L-SG1-US
Mode: 2402MHz

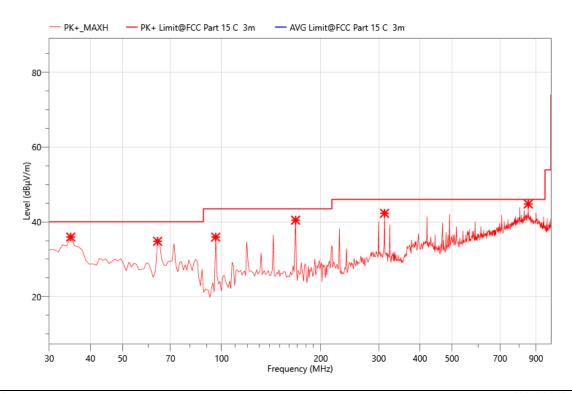
Antenna: Horizontal Temperature(C):23(C)
Humidity(%):56%

Test Time: 2024-03-20 Power Rating: AC 120V Test Engineer: Luffy

No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	47.460	41.17	37.16	40.00	2.84	PK+	Н	-4.01
2	119.240	45.96	40.09	43.50	3.41	PK+	Н	-5.87
3	143.490	46.52	40.87	43.50	2.63	PK+	Н	-5.65
4	227.880	44.45	40.27	46.00	5.73	PK+	Н	-4.18
5	708.030	33.01	43.18	46.00	2.82	PK+	Н	10.17
6	804.060	31 22	44 00	46 00	2 00	PK+	Н	12 78

Note:

REPORT NO.: E04A23080505F00801 Page 28 of 53



Site: LAB Antenna: Vertical Temperature(C):23(C)
Limit: FCC Part 15 C 3m Radiation(QP) Humidity(%):56%

EUT: Portable Power Station Test Time: 2024-03-20 M/N.: SR0KW3L-SG1-US Power Rating: AC 120V Mode: 2402MHz Test Engineer: Luffy

Note:

No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	34.850	41.43	35.95	40.00	4.05	PK+	V	-5.48
2	63.950	38.38	34.80	40.00	5.20	PK+	V	-3.58
3	95.960	42.11	35.92	43.50	7.58	PK+	V	-6.19
4	167.740	45.79	40.46	43.50	3.04	PK+	V	-5.33
5	312.270	42.78	42.28	46.00	3.72	PK+	V	-0.5
6	852.560	31.38	44.78	46.00	1.22	PK+	V	13.4

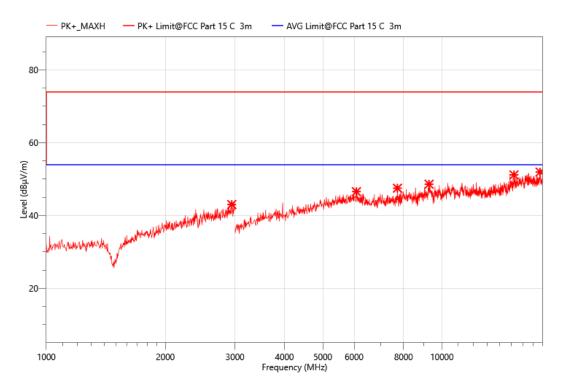
Note: Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor

REPORT NO.: E04A23080505F00802 Page 29 of 53

Above 1000MHz~10th Harmonics:

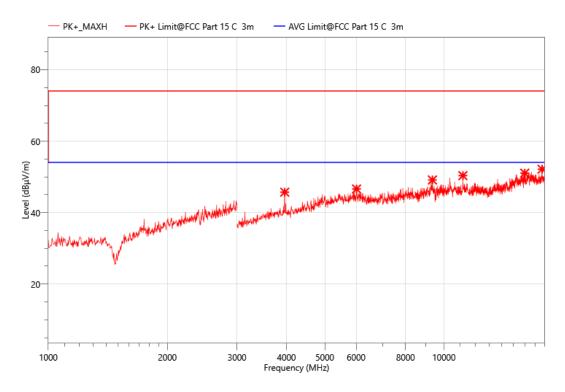
Temperature : 24° C Test Date : 2024-03-20

Humidity: 55 % Test By: Vier Test mode: BLE Frequency(MHz): 2402



No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2944.000	52.93	43.03	74.00	30.97	PK+	Н	-9.9
2	6080.000	51.72	46.57	74.00	27.43	PK+	Н	-5.15
3	7720.000	50.29	47.51	74.00	26.49	PK+	Н	-2.78
4	9280.000	49.21	48.61	74.00	25.39	PK+	Н	-0.6
5	15215.000	48.45	51.17	74.00	22.83	PK+	Н	2.72
6	17700.000	47.20	51.95	74.00	22.05	PK+	Н	4.75

REPORT NO.: E04A23080505F00802 Page 30 of 53

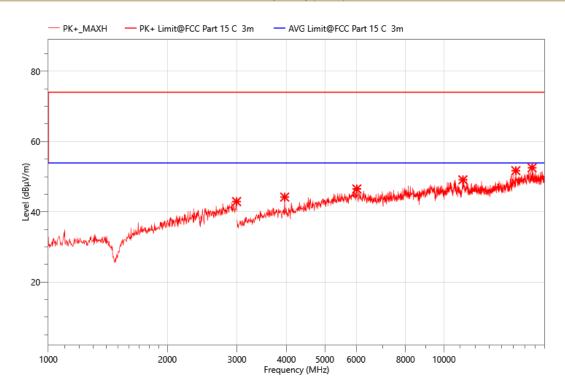


No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	3960.000	58.50	45.73	74.00	28.27	PK+	V	-12.77
2	6015.000	52.20	46.63	74.00	27.37	PK+	V	-5.57
3	9355.000	50.19	49.15	74.00	24.85	PK+	V	-1.04
4	11170.000	49.57	50.36	74.00	23.64	PK+	V	0.79
5	16010.000	48.15	51.05	74.00	22.95	PK+	V	2.9
6	17705.000	47.50	52.16	74.00	21.84	PK+	V	4.66

REPORT NO.: E04A23080505F00802 Page 31 of 53

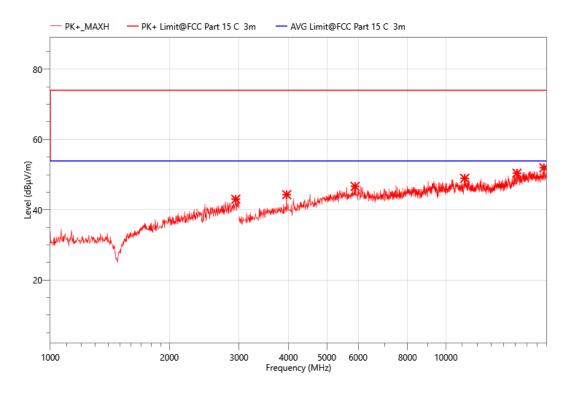
Temperature : 24° Test Date : 2024-03-20

Humidity: 55 % Test By: Vier Test mode: BLE Frequency(MHz): 2440



No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2992.000	52.23	42.91	74.00	31.09	PK+	Н	-9.32
2	3960.000	56.95	44.18	74.00	29.82	PK+	Н	-12.77
3	6025.000	51.93	46.51	74.00	27.49	PK+	Н	-5.42
4	11170.000	48.31	49.10	74.00	24.90	PK+	Н	0.79
5	15200.000	49.09	51.70	74.00	22.30	PK+	Н	2.61
6	16710.000	48.06	52.53	74.00	21.47	PK+	Н	4.47

REPORT NO.: E04A23080505F00802 Page 32 of 53

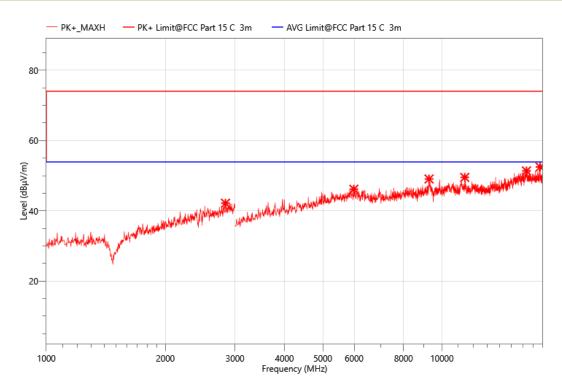


No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2944.000	52.91	43.01	74.00	30.99	PK+	V	-9.9
2	3960.000	57.08	44.31	74.00	29.69	PK+	V	-12.77
3	5895.000	52.13	46.66	74.00	27.34	PK+	V	-5.47
4	11155.000	48.06	48.97	74.00	25.03	PK+	V	0.91
5	15125.000	48.07	50.42	74.00	23.58	PK+	V	2.35
6	17690.000	47.06	51.97	74.00	22.03	PK+	V	4.91

REPORT NO.: E04A23080505F00802 Page 33 of 53

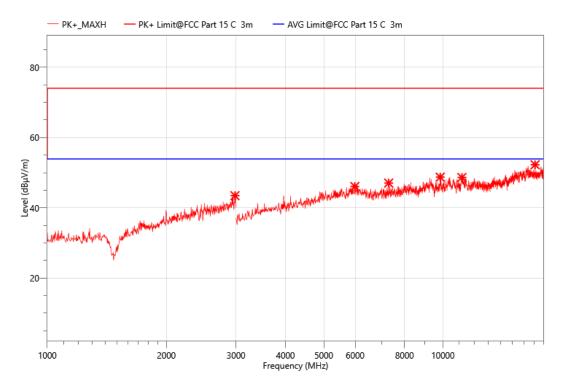
Temperature : 24° Test Date : 2024-03-20

Humidity: 55 % Test By: Vier Test mode: BLE Frequency(MHz): 2480



No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2838.000	52.42	42.16	74.00	31.84	PK+	Н	-10.26
2	5990.000	51.56	46.15	74.00	27.85	PK+	Н	-5.41
3	9280.000	49.66	49.06	74.00	24.94	PK+	Н	-0.6
4	11425.000	49.06	49.51	74.00	24.49	PK+	Н	0.45
5	16360.000	47.74	51.36	74.00	22.64	PK+	Η	3.62
6	17705.000	47.80	52.46	74.00	21.54	PK+	Н	4.66

REPORT NO.: E04A23080505F00802 Page 34 of 53



No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2982.000	52.77	43.45	74.00	30.55	PK+	V	-9.32
2	5990.000	51.48	46.07	74.00	27.93	PK+	V	-5.41
3	7295.000	49.95	47.04	74.00	26.96	PK+	V	-2.91
4	9845.000	50.38	48.72	74.00	25.28	PK+	V	-1.66
5	11170.000	47.84	48.63	74.00	25.37	PK+	V	0.79
6	17100.000	47.95	52.25	74.00	21.75	PK+	V	4.3

Other harmonics emissions are lower than 20dB below the allowable limit.

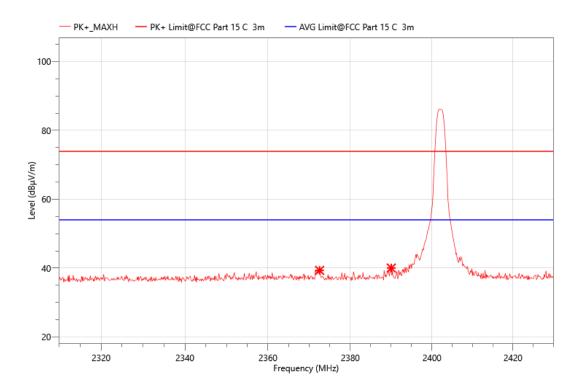
Note: (1) All Readings are Peak Value.

- (2) Emission Level= Reading Level+ Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) Measuring frequencies from 1GHz to 25GHz.

REPORT NO.: E04A23080505F00802 Page 35 of 53

Band edge:

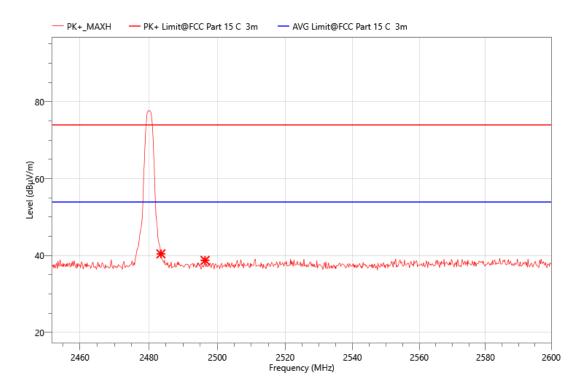
BLE 2402MHz



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2372.520	60.07	-20.74	39.33	74.00	34.67	PK+	Н
2	2390.000	60.75	-20.73	40.02	74.00	33.98	PK+	Н

REPORT NO.: E04A23080505F00802 Page 36 of 53

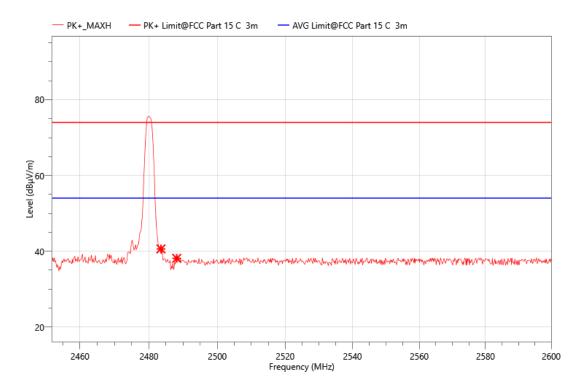
BLE 2402MHz



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.500	60.75	-20.3	40.45	74.00	33.55	PK+	V
2	2496.400	59.02	-20.26	38.76	74.00	35.24	PK+	V

REPORT NO.: E04A23080505F00802 Page 37 of 53

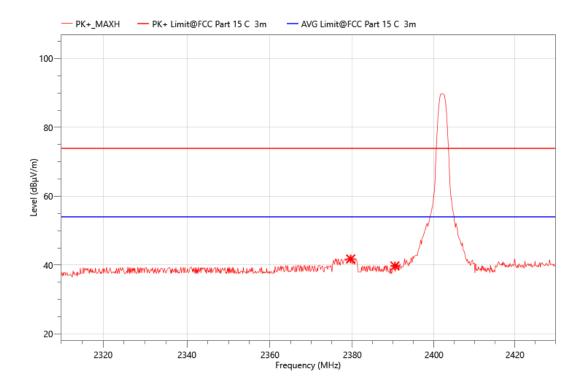
BLE 2480MHz



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. Limit (dBμV/m)		Margin (dB)	Det.	Pol.
1	2483.500	60.91	-20.3	40.61	74.00	33.39	PK+	Н
2	2488.112	58.41	-20.28	38.13	74.00	35.87	PK+	Н

REPORT NO.: E04A23080505F00802 Page 38 of 53

BLE 2480MHz



	No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
Ī	1	2379.600	62.51	-20.75	41.76	74.00	32.24	PK+	V
	2	2390.400	60.47	-20.73	39.74	74.00	34.26	PK+	V

REPORT NO.: E04A23080505F00802 Page 39 of 53

9. ANTENNA REQUIREMENT

REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247 and RSS-Gen issue 5 6.8.

FCC part 15C section 15.247 and RSS 247 requirements:

Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

DESCRIPTION

Pass

TRF No.: 04-E001-1A

REPORT NO.: E04A23080505F00802 Page 40 of 53

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

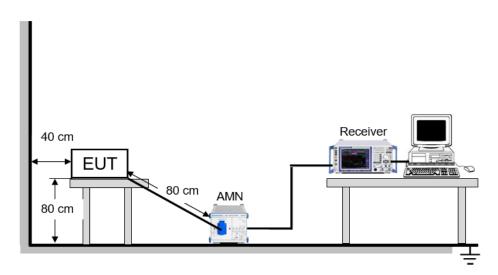
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



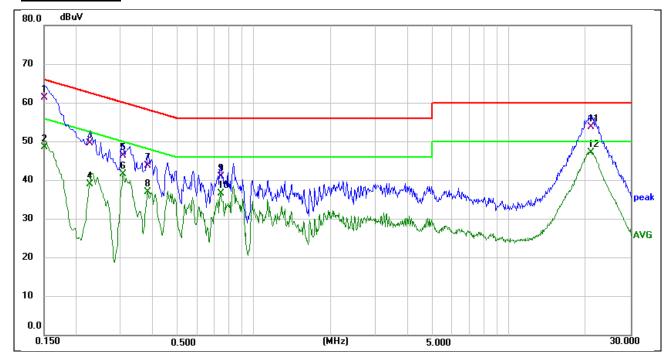
TEST ENVIRONMENT

Temperature	26℃	Relative Humidity	54.3%
Atmosphere Pressure	101kPa		

REPORT NO.: E04A23080505F00802 Page 41 of 53

TEST RESULTS

Note:



Site: FCC Part 15 B Conduction(QP) Portable Power Station Limit: EUT: SR0KW3L-SG1-US M/N.: Mode: BLE 2402MHz

Humidity(%):54% 2024-03-20 **Test Time: Power Rating:** AC 120V/60Hz Fink

Temperature(C):25(C)

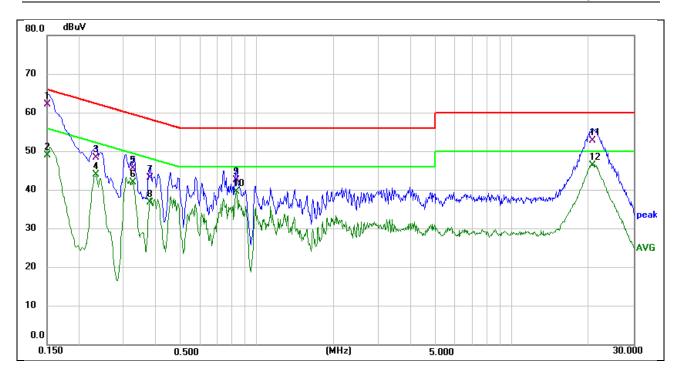
Test Engineer:

Phase:N

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure- ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1500	50.85	10.55	61.40	66.00	-4.60	QP	
2	0.1500	37.98	10.55	48.53	56.00	-7.47	AVG	
3	0.2260	38.77	10.73	49.50	62.60	-13.10	QP	
4	0.2260	28.19	10.73	38.92	52.60	-13.68	AVG	
5	0.3060	35.51	10.89	46.40	60.08	-13.68	QP	
6	0.3060	30.65	10.89	41.54	50.08	-8.54	AVG	
7	0.3820	32.67	11.03	43.70	58.24	-14.54	QP	
8	0.3820	26.06	11.03	37.09	48.24	-11.15	AVG	
9	0.7420	29.12	11.78	40.90	56.00	-15.10	QP	
10	0.7420	24.81	11.78	36.59	46.00	-9.41	AVG	
11	21.1259	42.83	10.97	53.80	60.00	-6.20	QP	
12	21.1259	36.30	10.97	47.27	50.00	-2.73	AVG	

^{*:}Maximum data x:Over limit !:over margin

REPORT NO.: E04A23080505F00802 Page 42 of 53



Site: Phase:L1
Limit: FCC Part 15 B Conduction(QP)
EUT: Portable Power Station Test Time:
M/N.: SR0KW3L-SG1-US Power Rating
Mode: BLE 2402MHz Test Enginee
Note:

hase:L1 Temperature(C):25(C)
Humidity(%):54%

Test Time: 2024-03-20 Power Rating: AC 120V/60Hz

Test Engineer: Fink

No.	Frequency	Reading	Factor	Measure-	Limit	Margin	Detector	Comment
	(MHz)	Level(dBuV)	(dB)	ment(dBuV)	(dBuV)	(dB)		
1	0.1500	51.59	10.61	62.20	66.00	-3.80	QP	
2	0.1500	38.34	10.61	48.95	56.00	-7.05	AVG	
3	0.2340	37.61	10.79	48.40	62.31	-13.91	QP	
4	0.2340	33.20	10.79	43.99	52.31	-8.32	AVG	
5	0.3260	34.60	11.00	45.60	59.55	-13.95	QP	
6	0.3260	30.98	11.00	41.98	49.55	-7.57	AVG	
7	0.3780	32.09	11.11	43.20	58.32	-15.12	QP	
8	0.3780	25.77	11.11	36.88	48.32	-11.44	AVG	
9	0.8340	32.13	10.37	42.50	56.00	-13.50	QP	
10	0.8340	29.33	10.37	39.70	46.00	-6.30	AVG	
11	20.7900	41.69	11.11	52.80	60.00	-7.20	QP	
12	20.7900	35.37	11.11	46.48	50.00	-3.52	AVG	

^{*:}Maximum data x:Over limit !:over margin

Note: 1. Result = Reading + Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

REPORT NO.: E04A23080505F00802 Page 43 of 53

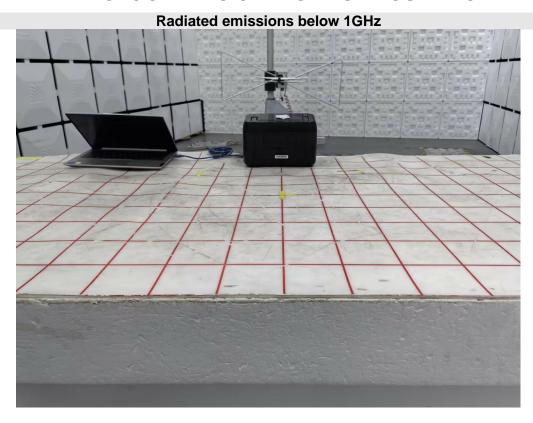
11. TEST DATA

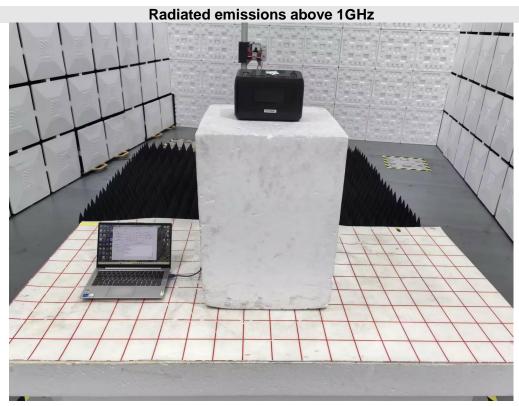
Please refer to section "Test Data" - Appendix A

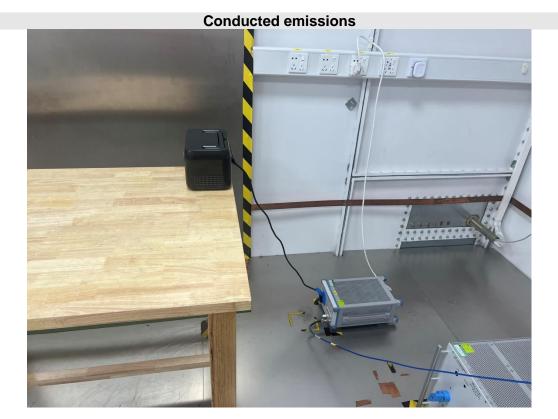
TRF No.: 04-E001-1A

REPORT NO.: E04A23080505F00802 Page 44 of 53

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION







REPORT NO.: E04A23080505F00802 Page 46 of 53

APPENDIX: PHOTOGRAPHS OF THE EUT









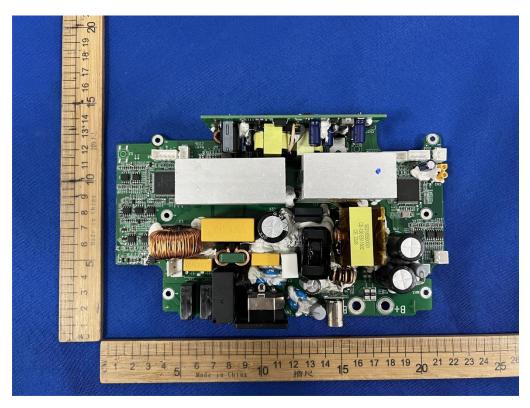


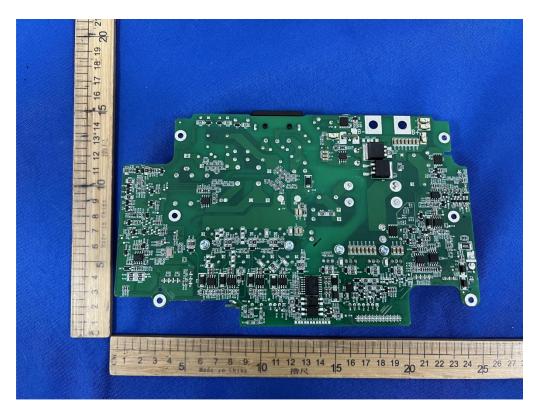


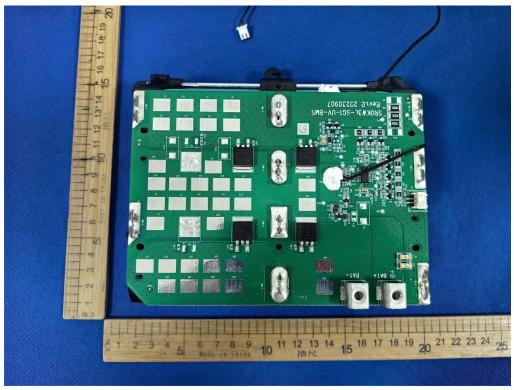












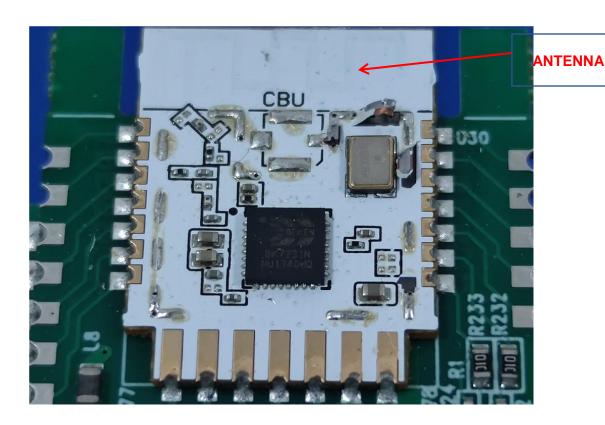








REPORT NO.: E04A23080505F00802 Page 53 of 53



END OF REPORT

TRF No.: 04-E001-1A