



## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200049202

Page: 1 of 8

# Human Exposure Report

**Application No.:** FYCR2212000492BA  
**Applicant:** VLC DISTRIBUTION COMPANY, LLC  
**Address of Applicant:** 16255 Port Northwest Dr Suite 150, Houston, Texas 77041 United States  
**Manufacturer:** VLC DISTRIBUTION COMPANY, LLC  
**Address of Manufacturer:** 16255 Port Northwest Dr Suite 150, Houston, Texas 77041 United States  
**Factory:** Hunan Hametech Technology Co., Limited  
**Address of Factory:** 1-5 Building, Innovation Science Park, High Tech. Industrial Development District, Wuxi Town, Luxi, Hunan, China

### Equipment Under Test (EUT):

**EUT Name:** Power Bank  
**Model No.:** MICRO 5  
**Trade Mark:** Duracell  
**FCC ID:** 2A90H-DMPMICRO5  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1091

**Date of Receipt:** 2022-12-06  
**Date of Test:** 2022-12-29 to 2023-02-09  
**Date of Issue:** 2023-02-11

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above

*Winkay Wang*

EMC Technical Manager



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Report No.: FYCR221200049202

Page: 2 of 8

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-02-11		Original

Authorized for issue by:				
				
		Tree Zhan/Project Engineer		
				
		Winkey Wang/Reviewer		



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200049202

Page: 3 of 8

## 2 Contents

1	COVER PAGE .....	1
2	CONTENTS.....	3
3	GENERAL INFORMATION .....	4
3.1	DETAILS OF E.U.T. ....	4
3.2	DESCRIPTION OF SUPPORT UNITS.....	4
3.3	TEST LOCATION .....	5
3.4	TEST FACILITY .....	5
3.5	DEVIATION FROM STANDARDS .....	5
3.6	ABNORMALITIES FROM STANDARD CONDITIONS .....	5
4	EQUIPMENTS USED DURING TEST .....	6
5	TEST RESULTS .....	7
5.1	RF EXPOSURE TEST.....	7
5.1.1	E.U.T. Operation.....	7



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200049202

Page: 4 of 8

### 3 General Information

#### 3.1 Details of E.U.T.

Power supply:	Lithium-ion rechargeable battery (DC 3.7V 5000mAh) which can be charged from Type-C port. Input: USB-C 5V/3A, 9V/2A Output: USB-C 5V/2.4A WPC: 5W/7.5W Two outputs:12W Max.
Cable(s):	USB-C to USB-C 28cm unshielded
Operation frequency:	111.80-147.60KHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
E-loading	SGS	N/A	REF. No.SEA42A00



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## 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 3.4 Test Facility

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

### • A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

### • FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

### • Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

## 3.5 Deviation from Standards

None.

## 3.6 Abnormalities from Standard Conditions

None.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200049202

Page: 6 of 8

### 4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2025-07-11
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2023-04-01

### Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Discharge mode_Keep the EUT discharging(WPC 5W)
Final test	01	Discharge mode_Keep the EUT discharging(WPC 7.5W)



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## 5 Test Results

### 5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 15cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz

\*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

#### 5.1.1 E.U.T. Operation

##### Operating Environment:

Temperature: 22.3 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1020 mbar

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



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## 5.1.2 Measurement Data

Input Voltage=DC 5V; The max output power =7.5W

### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
125 kHz which is the worst case within the operation frequency range	15	Side 1	0.064	0.076	0.086	0.815	0.163
		Side 2	0.055	0.062	0.081		
		Side 3	0.058	0.071	0.081		
		Side 4	0.063	0.075	0.091		
		Top	0.072	0.082	0.104		

### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
125 kHz which is the worst case within the operation frequency range	15	Side 1	0.084	0.070	0.056	0.815	0.163
		Side 2	0.075	0.063	0.050		
		Side 3	0.079	0.066	0.053		
		Side 4	0.081	0.068	0.054		
		Top	0.096	0.076	0.062		

- End of the Report -



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