FCC 47 CFR PART 15 SUBPART B

TEST REPORT

Shenzhen Uniwins Technology Co., Ltd

POWER BANK

Model No.: UP-9065

Prepared for Address

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd. Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an

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Mail webmaster@LCS-cert.com

Date of receipt of test sample : October 12, 2017

Number of tested samples

Serial number : Prototype

Date of Test October 12, 2017 ~ October 23, 2017

Date of Report : October 23, 2017

FCC TEST REPORT FCC 47 CFR PART 15 SUBPART B

Report Reference No.: LCS171012042AE

Date Of Issue.....: October 23, 2017

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address..... : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure: Full application of Harmonised standards

Partial application of Harmonised standards □

Other standard testing method

Applicant'S Name....:

Address ::

Test Specification

Standard : FCC 47 CFR Part 15 Subpart B, ANSI C63.4 -2014

Test Report Form No.: LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description.....: POWER BANK

Trade Mark....: N/A

Model/ Type Reference.....: UP-9065

Ratings : Input:5V=3A

Output:USB1:5V=2A; USB2:5V=3A; 9V=2A; 12V=1.5A

Result: Positive

Compiled by:

Hanalens

Supervised by:

Daloy in

Hana Zeng/ File administrators

Davey Xu/ Technique principal



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FCC -- TEST REPORT

Test Report No.: LCS171012042AE

October 23, 2017

Date of issue

Type / Model	: UP-9065
EUT	: POWER BANK
Applicant	:
Address	
Telephone	:/
Fax	: /
Manufacturer	:
Address	
Telephone	:/
Fax	: /
Factory	
Address	
Telephone	
Fax	: /

Test Result according to the standards on page 6: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

THIS DOCUMENT WAS REDACTED WITH THE PRODUCTIP REDACTION TOOL ON 2018-05-10. AT THE TIME OF GENERATING THE DOCUMENT THE ORIGINAL WAS AVAILABLE ALSO. THE ORIGINAL CAN ONLY BE MADE AVAILABLE BY THE DOCUMENT OWNER.

Revision History

Revision	Issue Date	Revisions	Revised By
000	October 23, 2017	Initial Issue	Gavin Liang

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1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

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

EMISSION							
Description of Test Item Standard Limits Resi							
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B	Class B	N/A				
Radiated disturbance	FCC 47 CFR Part 15 Subpart B	Class B	PASS				

N/A is an abbreviation for Not Applicable.

Test mode:					
Mode 1	Charge	Pre-scan			
Mode 2	Discharge	Record			
Mode 3	Charging And Discharging(Full Load)	Pre-scan			

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT : POWER BANK

Trade Mark : N/A

Model Number : UP-9065

Power Supply : Input:5V=3A

Output:USB1:5V=2A; USB2:5V=3A; 9V=2A; 12V=1.5A

EUT Clock Frequency : ≤108MHz

2.2.Description of Test Facility

Site Description

EMC Lab. : CNAS Registration Number. is L4595.

FCC Registration Number. is CN5024.

Industry Canada Registration Number. is 9642A-1.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

NVLAP Registration Code is 600167-0.

2.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.4. Measurement Uncertainty

Test	Parameters	Expanded uncertainty (U _{lab})	$\begin{array}{c} \textbf{Expanded} \\ \textbf{uncertainty} \ (U_{cispr}) \end{array}$
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.2 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	N/A

- (1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.
- (2) 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%.

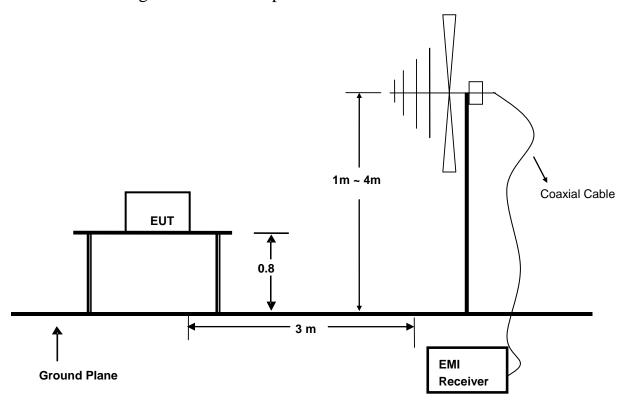
3. RADIATED EMISSION MEASUREMENT

3.1.Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1 3m Semi Anechoic Chamber		SIDT FRANKONIA	SAC-3M	03CH03-HY	2017-06-17
2	EMI Test Receiver	ROHDE & SCHWARZ	ESR 7	101181	2017-06-17
3	Log per Antenna	SCHWARZBECK	VULB9163	9163-470	2017-04-17
4	EMI Test Software	AUDIX	E3	N/A	2017-06-17
5	Positioning Controller	MF	MF-7082	/	2017-06-17

3.2.Block Diagram of Test Setup



3.3.Radiated Emission Limit (Class B)

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT		
MHz	Meters	μV/m	$dB(\mu V)/m$	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
960 ~ 1000	3	500	54.0	

Remark : (1) Emission level (dB) μV = 20 log Emission level $\mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4.EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT as shown in Section 3.2.
- 3.5.2.Let the EUT work in test mode (Mode 2) and measure it.

3.6.Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver is set at 120kHz.

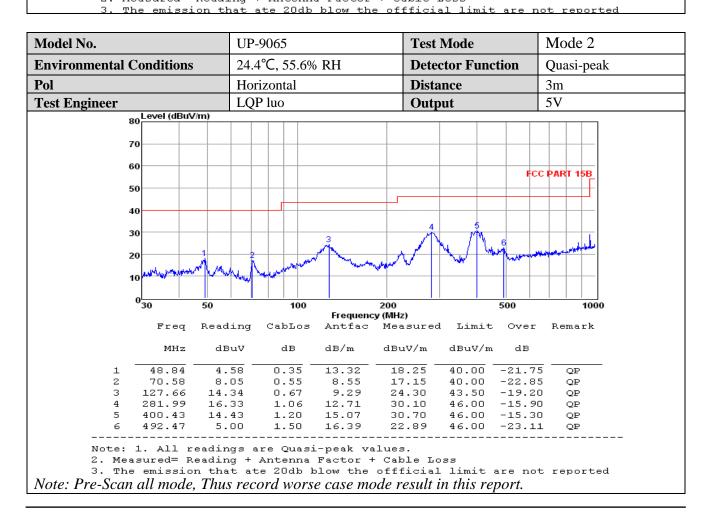
The frequency range from 30MHz to 1000MHz is checked.

3.7. Radiated Emission Noise Measurement Result

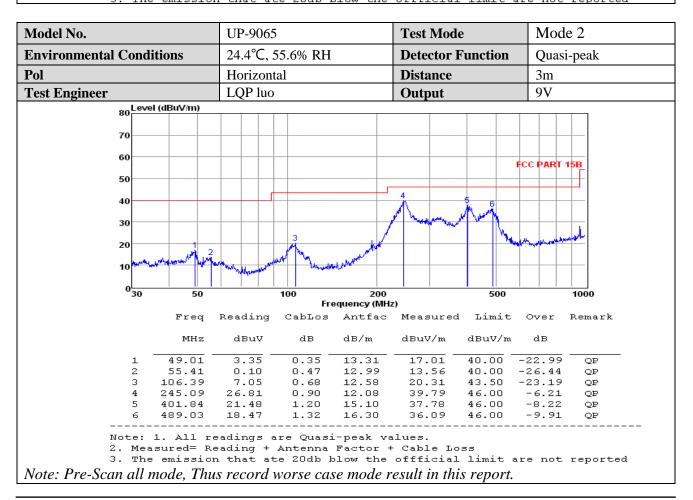
PASS.

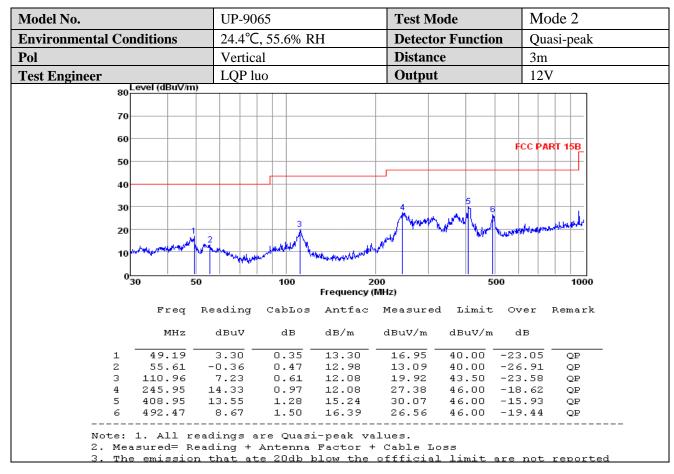
The scanning waveforms please refer to the next page.

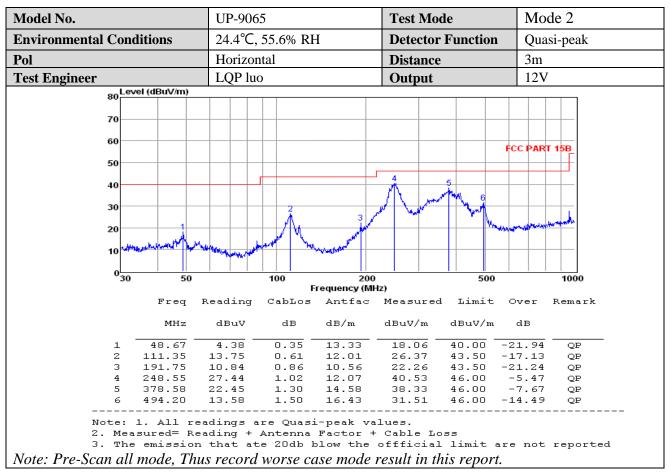
Model No.		UP-9	065		Test M	ode	N	Iode 2
Environmental (Conditions	24.4°	C, 55.6% I	RH	Detecto	Detector Function Q		uasi-pea
Pol		Verti	cal		Distanc	ce	3:	m
Test Engineer		LQP	luo		Output	,	5	V
	80 Level (dBuV	/m)						
	70							
	60							
							FCC I	PART 15B
	50							
	40							
	40							
	30					5		
	20				4	/ Nu	6 /	WHITE OF THE PARTY
	20	16 1	2		1 / 1/200	Vade/ 1	HANNEY HANNEY YAN	A CONTRACTOR
	10 Hally participated	H Water Harrist frage	page broken by by the way by	ayayayayay ka	Language Committee			
	030	50	100		200	- 11	500	1000
				Frequency				
	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dB	
				13.10	11.35	40.00	-28.65	QP
1	53.32	-2.21	0.46					
2	92.14	-1.17	0.56	12.30	11.69	43.50		
2 3	92.14 106.76	-1.17 2.38	0.56 0.68	12.30 12.54	15.60	43.50	-27.90	QP
2 3 4	92.14 106.76 249.43	-1.17 2.38 9.87	0.56 0.68 1.02	12.30 12.54 12.07	15.60 22.96	43.50 46.00	-27.90 -23.04	QP QP
2 3	92.14 106.76 249.43	-1.17 2.38	0.56 0.68	12.30 12.54	15.60	43.50 46.00 46.00	-27.90 -23.04	QP QP QP



Model No.	UP-9065	Te	est Mode	Mode 2
Environmental Conditions	24.4°C, 55.6% F	RH De	etector Function	Quasi-peak
Pol	Vertical	Dis	stance	3m
Test Engineer	LQP luo	Ou	utput	9V
80 Level (dBuV	V/m)			
70				
60			FC	CC PART 15B
50				
40				
30		Ā	Marine I	- January
20 10	months with	3. A.	What was	
		And the state of t		
030	50 100	200 Frequency (MHz)	500	1000
Fr	req Reading CabL	os Antfac Me	easured Limit (Over Remark
Ţv	MHz dBuV dB	dB/m dB	BuV/m dBuV/m	dB
1 48.	.84 4.47 0.3	5 13.32 1	8.14 40.00 -2	21.86 QP
2 106.			5.60 43.50 -2	_
3 206.			.2.95 43.50 -3	_
4 247. 5 411.			80.52 46.00 -1 80.47 46.00 -1	L5.48 QP L5.53 QP
5 411. 6 489.			30.47 46.00 -3 24.22 46.00 -2	
Note: 1. Al 2. Measured	ll readings are Qu d= Reading + Anten ssion that ate 20d	 asi-peak value na Factor + Ca	es. Able Loss	







4. PHOTOGRAPH

4.1.Photo of Radiated Measurement



5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig 1

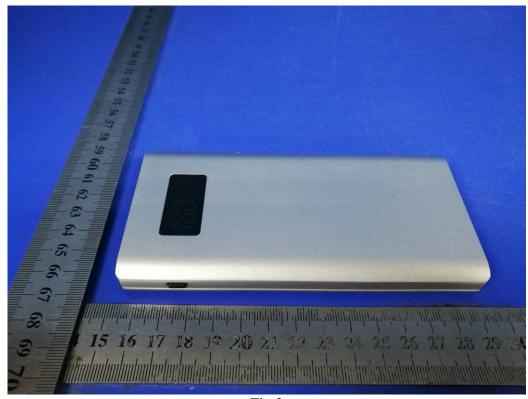


Fig 2



Fig 3

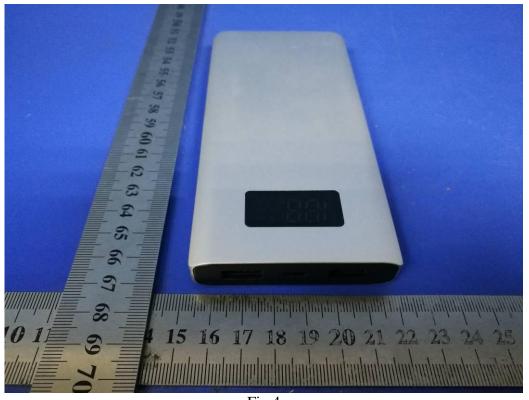


Fig 4

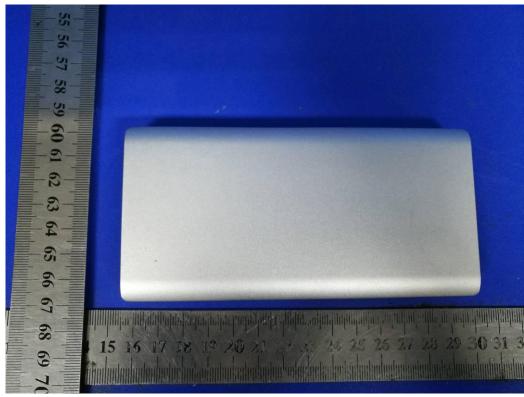


Fig 5

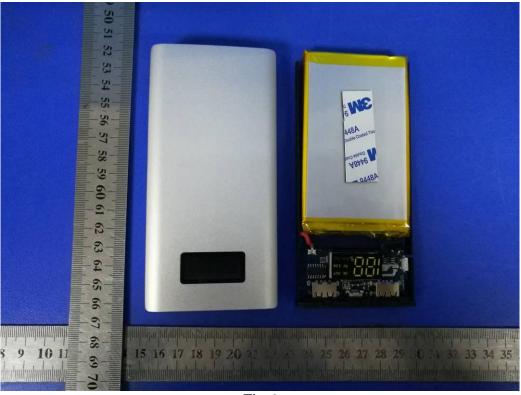


Fig 6

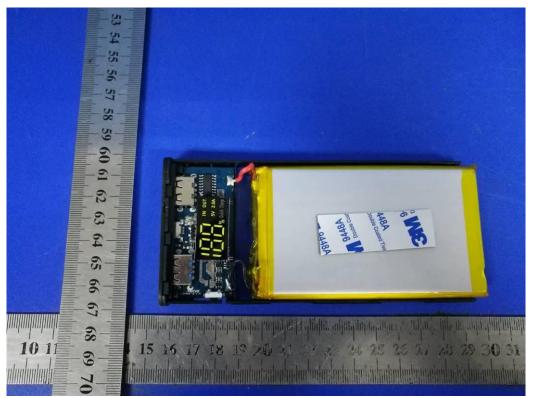


Fig 7



Fig 8

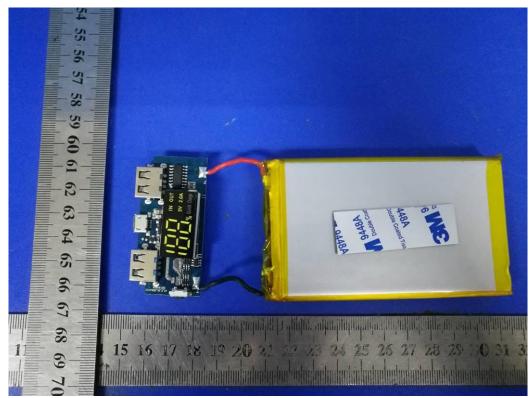


Fig 9



Fig 10



Fig 11

----- THE END OF TEST REPORT -----