FCC TEST REPORT

On Behalf of

Dalian Everspry Science & Technology Co., LTD.

Everspry Outsole Scanner(EverOS)

Model No.: HR-YQ-III

Additional Model No.: HR-YQ-III-A

Prepared for Address	:	Dalian Everspry Science & Technology Co., LTD. Xixian SDickt NO.31, High-tech Zone, Dalian, Liaoning, P.R.China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	May 06, 2015
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	May 06, 2015 - August 20, 2015
Date of Report	:	August 20, 2015

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FCC TEST REPORT			
FCC CFR 47 PART 15 Subpart B: 2014			
Report Reference No:: LCS1505060249E			
Date Of Issue: August 20, 2015			
Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.			
Address			
Testing Location/ Procedure: Full application of Harmonised standards Partial application of Harmonised standards □ Other standard testing method □			
Applicant's Name: Dalian Everspry Science & Technology Co., LTD.			
Address Xixian SDickt NO.31, High-tech Zone, Dalian, Liaoning, P.R.Ch	ina		
Test Specification			
Standard: FCC CFR 47 PART 15 Subpart B: 2014, ANSI C63.4-2014			
Fest Report Form No: LCSEMC-1.0			
TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.			
Master TRF: Dated 2011-03			
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Fest Item Description: Everspry Outsole Scanner(EverOS)			
Trade Mark : EVERSPRY Model/Type Reference : HR-YQ-III Ratings : INPUT: 100-240V~50/60Hz			
OUTPUT: 12V/1A Result Positive			
Compiled by: Supervised by: Approved by:			
Dick Su Cash Grim Ling			

Dick Su/ File administrators

(à~m

Glin Lu/ Technique principal

James Lie

Gavin Liang/ Manager

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SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AF06-HRYQIII

FCC -- TEST REPORT

Test Report No. : LCS1505060249E

August 20, 2015 Date of issue

Report No.: LCS1505060249E

Type / Model	: HR-YQ-III
EUT	: Everspry Outsole Scanner(EverOS)
Applicant	: Dalian Everspry Science & Technology Co., LTD.
	: Xixian SDickt NO.31, High-tech Zone, Dalian, Liaoning,
	P.R.China
Telephone	:
Fax	:
Manufacturer	: Dalian Everspry Science & Technology Co., LTD.
Address	: Xixian SDickt NO.31, High-tech Zone, Dalian, Liaoning,
	P.R.China
Telephone	:
Fax	:
Factory	: Dalian Everspry Science & Technology Co., LTD.
Address	: Xixian SDickt NO.31, High-tech Zone, Dalian, Liaoning,
	P.R.China
Telephone	:
Fax	:

Test Result according to the standards on page 5: **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.

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AF06-HRYQIII

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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	Results	
Conducted disturbance at mains terminals	FCC CFR 47 PART 15 Subpart B: 2014	Class B	PASS	
Radiated disturbance	FCC CFR 47 PART 15 Subpart B: 2014	Class B	PASS	
N/A is an abbreviation for Not Applicable.				

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2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT	: Everspry Outsole Scanner(EverOS)
Model Number	: HR-YQ-III
Power Supply	: Input:100-240V, 50/60Hz,Output: 12V/1A
EUT Clock Frequency	\Rightarrow \leq 108MHz

2.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
	Adapter			VOC
Lenovo	Note Book	B470		DOC

2.3. External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	1	1.0m
DC IN	1	N/A

2.4.Description of Test Facility

EMC Lab.	:	CNAS Registration Number. is L4595.
		FCC Registration Number. is 899208.
		Industry Canada Registration Number. is 9642A-1.
		VCCI Registration Number. is C-4260 and R-3804.
		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

2.5.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,

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 6 of 13 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.

2.6.Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
		1000MHz~6000MHz	±4.10dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

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

2.7. Description Of Test Modes

There was 2 test Modes. TM1 to TM2 were shown below:

TM1: Normal Operating; TM2: Idle;

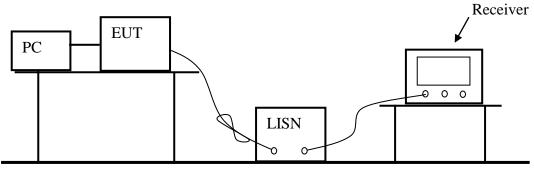
3. POWER LINE CONDUCTED MEASUREMENT

3.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2015/06/18
2	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2015/06/18
3	Artificial Mains	ROHDE & SCHWARZ	ENV216	101288	2015/06/18
4	EMI Test Software	AUDIX	E3	N/A	2015/06/18
5	Coaxial Cable	ACE	S112	N/A	2015/06/18

3.2. Block Diagram of Test Setup



Ground

3.3. Power Line	Conducted Emis	ssion Measureme	nt Limits (Class B)
	Conducted Linn		

Frequency of Emission	Conducted Limit (dBuV)		
(MHz)	Quasi-peak	Average	
0.15 ~ 0.50	66-56	56-46	
0.50 ~ 5.00	56	46	
5.00 ~ 30.00	60	50	

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

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3.5. Operating Condition of EUT

3.5.1.Setup the EUT and simulator as shown as Section 3.2.

3.5.2.Turn on the power of all equipment.

3.5.3.Let the EUT work in test mode (ON) and measure it.

3.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 500hm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

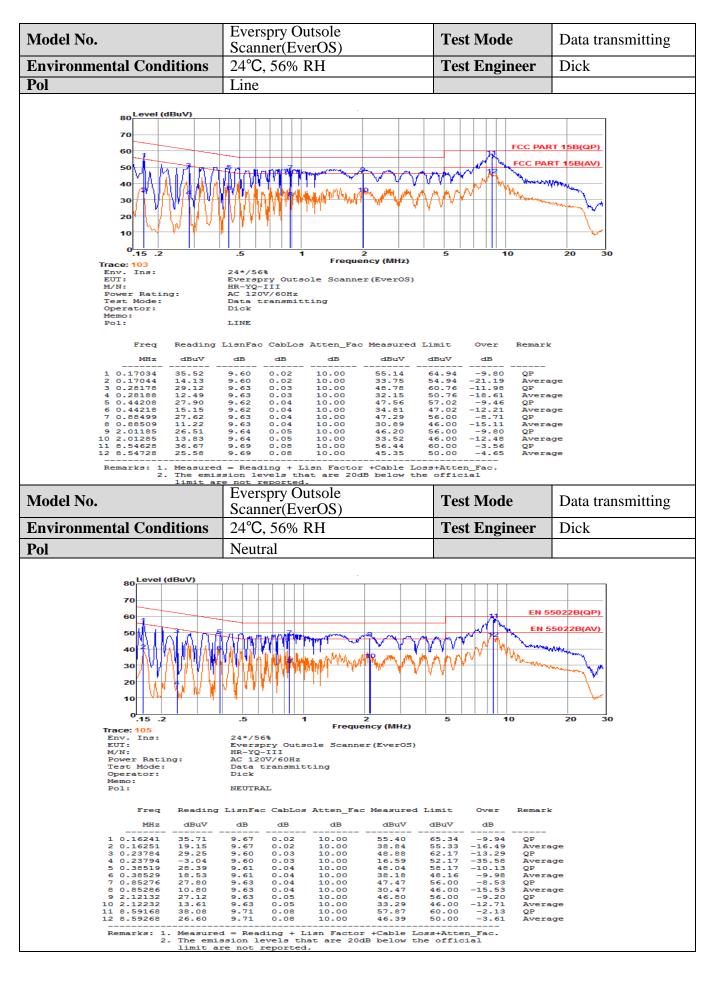
3.7. Power Line Conducted Emission Measurement Results

PASS.

All the scanning waveforms for Conducted Emission Measurement are refer to the next page.

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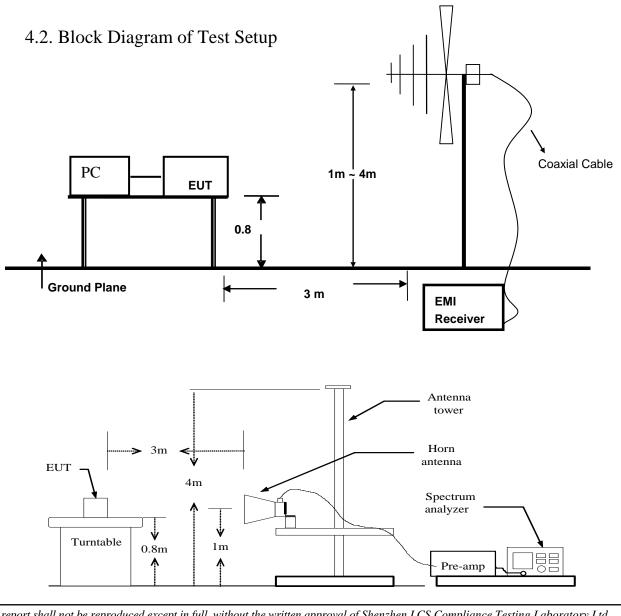
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4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2015/02/04
2	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2015/06/18
3	Log per Antenna	SCHWARZBECK	VULB9163	9163-470	2015/06/18
4	EMI Test Software	AUDIX	E3	N/A	2015/06/18
5	Positioning Controller	MF	MF-7082	/	2015/06/18
6	Coaxial Cable	ACE	S112	N/A	2015/06/18
7	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2015/06/18



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4.3. Radiated Emission Limit (Class B)

Limits for radiated disturbance Blow 1GHz

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT				
MHz	Meters	μV/m	$dB(\mu V)/m$			
30 ~ 88	3	100	40			
88 ~ 216	3	150	43.5			
216 ~ 960	3	200	46			
960 ~ 1000	3	500	54			
1000 6000	3	12500	74			
Remark : (1) Emission level (dB) μ V = 20 log Emission level μ 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.						

4.4. 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.

4.5. Operating Condition of EUT

4.5.1.Setup the EUT as shown in Section 4.2.4.5.2.Let the EUT work in test mode (on) and measure it.

4.6. 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.

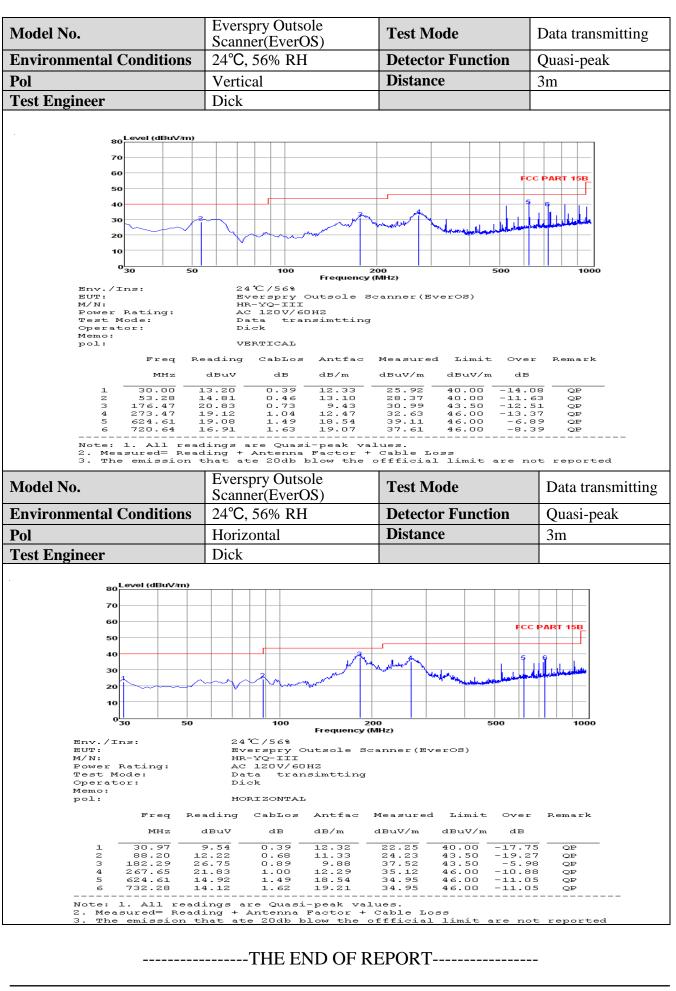
The bandwidth of the EMI test receiver is set at 120kHz, 1000kHz.

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

4.7. Radiated Emission Noise Measurement Result **PASS.**

The scanning waveforms please refer to the next page. Only record the worst results.

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