Report No: CCISE180916706

FCC REPORT

Applicant: Xwireless LLC

Address of Applicant: 11565 Old Georgetown Road Rockville MD 20852

Equipment Under Test (EUT)

Product Name: Smart phone

Model No.: Sync

Trade mark: Vortex

FCC ID: 2ADLJSYNC

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 30 Sep., 2018

Date of Test: 08 Oct., to 29 Oct., 2018

Date of report issued: 30 Oct., 2018

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	30 Oct., 2018	Original

Test Engineer

Reviewed by: 30 Oct., 2018

Project Engineer





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4 Test Summary

Test Item	Section in CFR 47	Result	
Conducted Emission	Part 15.107	Pass	
Radiated Emission	Part 15.109	Pass	

Remark:

Pass: The EUT complies with the essential requirements in the standard.

N/A: The EUT not applicable of the test item.



5 General Information

5.1 Client Information

Applicant:	Xwireless LLC	
Address of Applicant:	11565 Old Georgetown Road Rockville MD 20852	
Manufacturer/ Factory:	Shenzhen LEAGOO Intelligence Co., Limited	
Address:	2nd Floor of Building B, HongLianYing Technology Park, No.286 of SiLi Road, DaBuXiang Community, Longhua New District, Shenzhen, China	

Report No: CCISE180916706

5.2 General Description of E.U.T.

Product Name:	Smart phone
Model No.:	Sync
Power supply:	Rechargeable Li-ion Battery DC3.8V 2000mAh
AC adapter:	Model: ES007-U050100X0F Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description	
PC mode	Keep the EUT in Downloading mode(Worst case)	
Charging+Recording mode	Keep the EUT in Charging+Recording mode	
Charging+Playing mode	Keep the EUT in Charging+Playing mode	
FM mode	Keep the EUT in FM receiver mode	
GPS mode	Keep the EUT in GPS receiver mode	

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty	
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)	
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)	
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)	
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)	
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)	



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5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Laboratory Facility

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

FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366



5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2017	11-20-2018
EMI Test Software	AUDIX	E3	\	ersion: 6.110919	b
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2017	11-20-2018
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019	
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-07-2018	03-06-2019	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107			
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:	Frequency range (MHz)	Limit (dΒμV)	
	, , , , , ,	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	0.5-30	60	50	
-	* Decreases with the logarith	· · · · · ·		
Test setup:	Reference Plan	LISN	_	
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m	Filter — AC po		
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 			
Test environment:	Temp.: 23 °C Humid.: 56% Press.: 101kPa			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			
	•			



Measurement data:

Product name:	Smart phone	Product model:	Sync	
Test by:	Yaro	Test mode: PC mode		
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line	
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%	
a Level (dBuV)				
80				
70				
60			FCC CLASS-B QP	
			FCC CLASS-B AV	
50	49	9 11		
40 110	I would findle . The	Physical Company of the	12	
30	THE THE PROPERTY OF THE PROPER	Marine William		
TIV KANV		A A AAA		
20	WALL THE TALL			
10				
0				
.15 .2	.5 1 Frequ	2 5 uency (MHz)	10 20 30	
Trace: 17	Read LISN Cable		it Over	
Fre				

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	<u>d</u> B	dBu₹	−−dBuV	<u>ab</u>	
1	0.162	26.95	0.17	10.77	37.89	55.34	-17.45	Average
2	0.194	29.35	0.15	10.76	40.26	63.84	-23.58	QP
3	0.857	26.43	0.13	10.83	37.39	46.00	-8.61	Average
4	1.352	30.52	0.13	10.91	41.56	56.00	-14.44	QP
1 2 3 4 5 6 7 8 9	1.352	29.59	0.13	10.91	40.63	46.00	-5.37	Average
6	1.472	32.47	0.14	10.92	43.53	56.00	-12.47	QP
7	1.472	29.75	0.14	10.92	40.81	46.00	-5.19	Average
8	1.970	28.25	0.14	10.96	39.35	46.00		Average
9	2.088	31.26	0.14	10.96	42.36	56.00	-13.64	QP
10	2.088	27.43	0.14	10.96	38.53	46.00	-7.47	Average
11	2.915	30.64	0.16	10.92	41.72	56.00	-14.28	QP
12	19.532	29.19	0.27	10.93	40.39	60.00	-19.61	QP

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level =Receiver Read level + LISN Factor + Cable Loss.



Product name:	Smart phone		Product model:	Sync	Sync			
Test by:	Yaro		Test mode:	PC mode				
Test frequency:	150 kHz ~ 30 M	1Hz	Phase:	Neutral				
Test voltage:	AC 120 V/60 H	Z	Environment:	Temp: 22.5℃	Huni: 55%			
80 Level (dBuV)								
80 Level (dbdv)								
70								
				FC	C CLASS-B QP			
60					C CLASS B Q			
50				FC	C CLASS-B AV			
4		4 6	7	9	11			
40	Manufacturary	La Radia Latin	Mary Mally Mary Land	. III Maria	13 AK			
30	The state of the		John Walley	Manual and Man				
20 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ALANA LA MANANA	A MANAGER	M _ M M M		- Cour			
20	ANY		4					
10					In II			
10								
0.15 .2	.5	1	2 5	10	20 30			
Trace: 19	.5	· · · · · · · · · · · · · · · · · · ·	ency (MHz)	10	20 30			
riace. 13	Read	LISN Cable	Li	mit Over				
Fre	q Level Fa	actor Loss	Level L	ine Limit R	Remark			
MH	z dBuV		dBuVd	BuV dB				
1 0.24		0.95 10.75		.78 -22.11 Q				
2 0.24 3 0.87 4 1.01		0.95 10.75		.78 -13.95 A				
3 0.87 4 1.01		0.97 10.83 0.97 10.87		.00 -7.75 A	5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
5 1.38		0.97 10.91		.00 -12.38 Q .00 -5.52 A				
6 1.51				.00 -11.82 Q				
6 1.51 7 2.13 8 2.27 9 10.45				.00 -6.23 A				
8 2.27		0.98 10.95		.00 -10.42 Q				
9 10.45		1.01 10.94		.00 -18.19 Q				
10 10.45		1.01 10.94		.00 -10.88 A				
11 23.38				.00 -17.59 Q				
12 23.38		0.68 10.89		.00 -11.29 A				
Notos								

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B	Section 1	5.109					
Test Method:	ANSI C63.4:201							
Test Frequency Range:	30MHz to 6000I							
Test site:	Measurement D		3m (Se	mi-Anechoi	c Chan	nber)		
Receiver setup:		Frequency Detector RB			VB\		Remark	
Neceiver setup.	30MHz-1GHz	Quasi-		120kHz	300kHz		Quasi-peak Value	
	Above 4011-	Pea		1MHz	3MF		Peak Value	
	Above 1GHz	RM	S	1MHz	3MF	Ηz	Average Value	
Limit:	Frequenc		Limit	(dBuV/m @	23m)		Remark	
	30MHz-88M			40.0			Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
	216MHz-960			46.0			Quasi-peak Value	
	960MHz-1G	SHz		54.0		(Quasi-peak Value	
	Above 1GI	Ηz		54.0			Average Value	
Test setup:	Below 1GHz			74.0			Peak Value	
	Ground Plane — Above 1GHz	4m 4m Im A Test	\bigvee		Antenna Searce Anten RF Test Receiver Controlle	h na		





Test Procedure:	ground	•	semi-anecho	ic camber. Tl	he table wa	eters above the as rotated 360			
		T was set 3 n a, which was i	•			-			
	ground		the maximun	n value of the	e field stren				
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.								
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.								
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.								
Test environment:	Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa			
Test Instruments:	Refer to se	ection 5.9 for	details						
Test mode:	Refer to se	ection 5.3 for	details						
Test results:	Passed								
Remark:	All of the o	All of the observed value above 6GHz ware the niose floor , which were no							





Measurement Data:

Below 1GHz:

Product Name:	Smart phone		Product mode	l:	Sync				
Test By:	Yaro		Test mode:		PC mode				
Test Frequency:	30 MHz ~ 1 GH:	Z	Polarization:	,	Vertical				
Test Voltage:	AC 120/60Hz		Environment:	-	Temp: 24°C Huni: 57				
80 Level (dBuV/m)									
70									
60					FCC PART	15 CLASS B			
50									
40			- 2		4	5			
40				3]			
30		16.1.			a 1	Wilder had stable			
20.	l a	A. K. U. W. Wall		Jan Mary	Manhahadan	NK			
and before when the land	Mayor Marchan Larrana	A. A. HILLIAN MANAGEMENT	Whater Hally and	МП					
10 10 10 10 10 10	TT VANI								
030 50	1	00 Frequency	200 (MHz)		500	100			

	Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	dBu₹	<u>dB</u> /m	dB	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	133.151	47.30	8.51	2.32	29.31	28.82	43.50	-14.68	QP
2	239.987	53.40	12.97	2.82	28.59	40.60	46.00	-5.40	QP
3	323.320	42.53	14.09	3.02	28.50	31.14	46.00	-14.86	QP
4	480.528	48.19	16.97	3.46	28.92	39.70	46.00	-6.30	QP
2 3 4 5	721.726	44.53	20.33	4.26	28.58	40.54	46.00	-5.46	QP
6	962.162	37.01	22.50	4.27		36.13			4 1.0 TO 1.0 CO.

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product	Name:	Smart ph	one		Prod	uct mode	I: S	Sync		
Test By:		Yaro			Test	mode:	F	PC mode		
Test Fre	quency:	30 MHz ~	· 1 GHz		Pola	rization:	H	lorizontal		
Test Vo	ltage:	AC 120/6	0Hz		Envi	ronment:	Т	emp: 24℃	Huni:	57%
70 60 50 40 30	(dBuV/m)		onen dryther the	1		3	Marsharedian	4	RT15 CLAS	SS B
030	50	My	100	Frequ	200 ency (MHz)			500		1000
0.0000000000000000000000000000000000000	Freq		Antenna Factor	Cable	Preamp Factor	Level	Limit Line		Remark	ζ
,	MHz	dBu₹	dB/m	<u>dB</u>		$\overline{dBuV/m}$	dBuV/r	n dB		
1 2 3 4 5	143.830 166.068 239.987 480.528 721.726 962.162	38.36 44.21 52.79 47.97 41.99 40.43	8.30 9.28 12.97 16.97 20.33 22.50	2.44 2.63 2.82 3.46 4.26 4.27	29. 25 29. 08 28. 59 28. 92 28. 58 27. 65	19.85 27.04 39.99 39.48 38.00 39.55	43.50 46.00 46.00 46.00	-6.52	QP QP QP QP	

Remark

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.





Above 1GHz:

Product	oduct Name: Smart phone				Product model: Sy			Sync					
Test By:		Yaro			Tes	t mode:	Р	C mode					
Test Fred	quency:	1 GHz ~	1 GHz ~ 6 GHz Polarization: Verti										
Test Volt	age:	AC 120/6	60Hz		Env	rironment:	Т	emp: 24℃	Huni:	57%			
Level (dBuV/m)												
80								FCC P	ART 15	PK)			
70													
60								FCC P	ART 15	(AV)			
50													
40						1		3 Landon N	white	MMn			
40	and the same of th		ينكن بعد فاطن بطار	AND WALL WARDER	Maryana	and from	n//Johnstitute	Maria		5			
30 water	man to the last of	Telefort was								+			
20													
10													
1000	1200	1500	20	000 Frequ	iency (MHz	2)			5000	6000			
	Freq		Intenna Factor	Cable	Preamp		Limit Line		Remark				
_	MHz	—dBu⊽	<u>dB</u> /m		<u>dB</u>	dBuV/m	dBuV/m						

	rreq	rever	ractor	F022	ractor	rever	Line	TIMIL	Kemark
	MHz	dBu∜			<u>ab</u>	$\overline{\mathtt{dBuV/m}}$	dBu√/m	<u>ab</u>	
1	3064.394	46.03	28.64	5.37			74.00		
2	3064.394	38.25	28.64	5.37	41.48	30.78	54.00	-23.22	Average
3	4192.963	46.68	30.56	6.39	41.81	41.82	74.00	-32.18	Peak
4	4192.963	37.24	30.56	6.39	41.81	32.38	54.00	-21.62	Average
5	5685.998	47.66	32.74		41.89		74.00		
6	5685.998	38.55	32.74	7.55	41.89	36.95	54.00	-17.05	Average

Remark

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.





Product	Name:	Smart pho	ne		Prod	duct mode	l: Sy	Sync			
Test By:		Yaro			Test	Test mode: PC mode					
Test Fre	quency:	1 GHz ~ 6	GHz ~ 6 GHz Polarization:				H	orizontal			
Test Vol	tage:	AC 120/60)Hz		Environment:				Huni	: 57%	
80 Level	(dBuV/m)						_				
-								FCC	PART 15	(PK)	
70											
60								ECC	PART 15	: /AW	
50								rcc	PART IS	(AV)	
40	wheel phopulations	a . M. Mkah	he was been also	Mary mark was been a second	nempholasma	a market	cucont	month	yaran yaran	www	
20	white of the feel was and	Children parter : June									
10											
1000	1200	1500	20)00 Frequ	ency (MHz)			5000	6000	
	Freq	ReadA Level	ntenna Factor		Preamp Factor		Limit Line	Over Limit	Remar	k	
-	MHz	dBu₹	<u>d</u> B/m	₫B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>			
1 2 3	2888.455 2888.455 4561.357	46.26 38.21 47.83	28.39 28.39 31.20	5.23 5.23 6.86	41.59 41.59 42.11	38.29 30.24 43.78	54.00	-35.71 -23.76 -30.22	Avera	nge	

4

5

4561.357

5407.773

5407.773

38.54

48.23

38.74

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

31.20

32.31

32.31

The emission levels of other frequencies are very lower than the limit and not show in test report.

6.86

7.13

7.13

42.11

41.86

41.86

34.49

45.81

36.32

54.00 -19.51 Average

54.00 -17.68 Average

74.00 -28.19 Peak