

Report No: CCISE190710103

FCC REPORT

Applicant:	SWAGTEK
Address of Applicant:	10205 NW 19th St. Suite 101, Miami, FL, 33172
Equipment Under Test (B	EUT)
Product Name:	1.8 inch 2G Bar Phone
Model No.:	B10, GEO, U10
Trade mark:	LOGIC, iSWAG, UNONU
FCC ID:	O55182919
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	23 Jul., 2019
Date of Test:	24 Jul., to 19 Aug., 2019
Date of report issued:	20 Aug., 2019
Test Result:	PASS*

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

Authorized Signature:



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.

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Version 2

Version No. Date		Description
00	20 Aug., 2019	Original

Tested by:

YT Yang Test Engineer Date:

Date:

20 Aug., 2019

20 Aug., 2019

Reviewed by:

Winner Thang

Project Engineer

<u>CCIS</u>

3 Contents

		Pa	ige
1	С	OVER PAGE	1
2	v	ERSION	2
3	С	ONTENTS	3
4	T	EST SUMMARY	4
5	G	ENERAL INFORMATION	5
	5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10	CLIENT INFORMATION	5 5 6 6 6
6	T	EST RESULTS AND MEASUREMENT DATA	8
	6.1 6.2	Conducted Emission Radiated Emission	
7	T	EST SETUP PHOTO	17
8	Е	UT CONSTRUCTIONAL DETAILS	18



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:	SWAGTEK
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172
Manufacturer/Factory:	SWAGTEK
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172

5.2 General Description of E.U.T.

Product Name:	1.8 inch 2G Bar Phone			
Model No.:	B10, GEO, U10			
Power supply:	Rechargeable Li-ion Battery DC3.7V, 600mAh			
AC adapter :	Model: YLT-USB-540 Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 0.6A			
Remark:	The Model No.: B10, GEO, U10 were identical inside, the electrical circuit design, layout, components used and internal wiring, The only difference between them is as follows: The trademark LOGIC correspond model B10; The trademark iSWAG correspond model GEO; The trademark UNONU correspond model U10.			
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			
The sample was placed 0.8m abo	we the ground plane of 3m chamber. Measurements in both horizontal and			

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)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)



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 Description of Cable Used

Cable Type	Description	Length	From	То
Detached USB Cable	Unshielded	1.0m	EUT	Adapter

5.8 Laboratory Facility

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

• FCC - Designation No.: CN1211

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

• ISED – CAB identifier.: CN0021

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

5.9 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

5.10 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	03-18-2019	03-17-2020	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019	
EMI Test Software	AUDIX	E3	١	/ersion: 6.110919	b	
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020	
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020	
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020	

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	03-18-2019	03-17-2020		
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020		
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020		
		07-21-2018	07-20-2019				
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2019	07-20-2020		
Cable	HP	10503A	N/A	03-18-2019	03-17-2020		
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 15.10)7				
Test Method:	ANSI C63.4:2014	-				
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Limit (dBuV)					
Littit.	Frequency range (MHz)	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	m of the frequency				
Test setup:	Reference Pla	ne				
	LISN 40cm 80c AUX Equipment E.U.T Test table/Insulation plane Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	C power			
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices and LISN that provides a 500h termination. (Please referst photographs). Both sides of A.C. line and interference. In order to fin positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.) bedance for the mea e also connected to m/50uH coupling in s to the block diagra e checked for maxim nd the maximum en d all of the interface	 The provide a asuring equipment. the main power through a npedance with 500hm am of the test setup and mum conducted hission, the relative e cables must be changed 			
Test environment:	Temp.: 22.5 °C Hun	nid.: 55%	Press.: 101kPa			
Test Instruments:	Refer to section 5.10 for deta	ails	!			
Test mode:	Refer to section 5.3 for detai					
Test results:	Pass					
	F 833					



Measurement data:

oduct name:	YT			oduct mode	l:	B10			
st by:				est mode:		PC mode			
st frequency:				nase:		Line			
st voltage:				vironment:		Temp: 22.5	°C Huni: 559		
100 Level (dBuV) 90 80 70 60 3 502 40 40 30 40 40 40 40 40 40 40 40 40 40 40 40 40				12 12	Mymymth		C PART15 B QP		
0.15 .2	.5	1	2		5	10	20 3		
0	Read	LISN	Frequenc	cy (MHz) Level dBuV	5 Limit Line dBuV	Over	20 S Remark		

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.



roduct name	e :	1.8 inch 2G Bar Phone			oduct model	:	B10			
est by:		YT		Те	st mode:		PC mode			
est frequenc	;y:	150 kHz ~ 30 MHz Phase:					Neutral			
est voltage:		AC 120 V/	60 Hz	En	vironment:		Temp: 22.5°C Huni: 55%			
100 Level (90 80 70 60 3 50 40 2 30		m Marine Marine				Marana	FC	C PART15 B QP		
10	,	5		2		6	10	20		
0.15 .2	2	.5	1	2 Frequence	cy (MHz)	5	10	20		
0.15 .2	Freq	Read		_	cy (MHz) Level	5 Limit Line	Over	20 Remark		
		Read	LISN	Frequence		Limit	Over Limit			

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 S	ection 15.1	09							
Test Method:	ANSI C63.4:2014 30MHz to 6000MHz									
Test Frequency Range:	30MHz to 6000MHz									
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)									
Receiver setup:	Frequency Detector RBW VBW Remark									
										Quasi-peak Value
	Above 1GHz	Peak Value								
Limit:	Frequenc	3MHz @3m)	Average Value Remark							
Linnt.	30MHz-88N			40.0	eom	Quasi-peak Value				
	88MHz-216			43.5		Quasi-peak Value				
	216MHz-960			46.0		Quasi-peak Value				
	960MHz-10			54.0		Quasi-peak Value				
				54.0		Average Value				
	Above 1G	HZ		74.0		Peak Value				
Test setup:	AE BOCM	4m 4m 1m 1m 4 1m 4 1m 4 1m 4 1m 4 1m 4		Horn Antenna Horn Antenna	Antenna Tower Search Antenna Test eiver					



Test Procedure:	the grou		ter semi-ane	choic cambe	r. The table	was rotated	
	360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.						
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.						
	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.:	24 °C	Humid.:	57%	Press.:	1 01kPa	
Test Instruments:	Refer to section 5.10 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						
Remark:	All of the on no recorde		ue above 6G	Hz ware the	niose floor	r, which were	

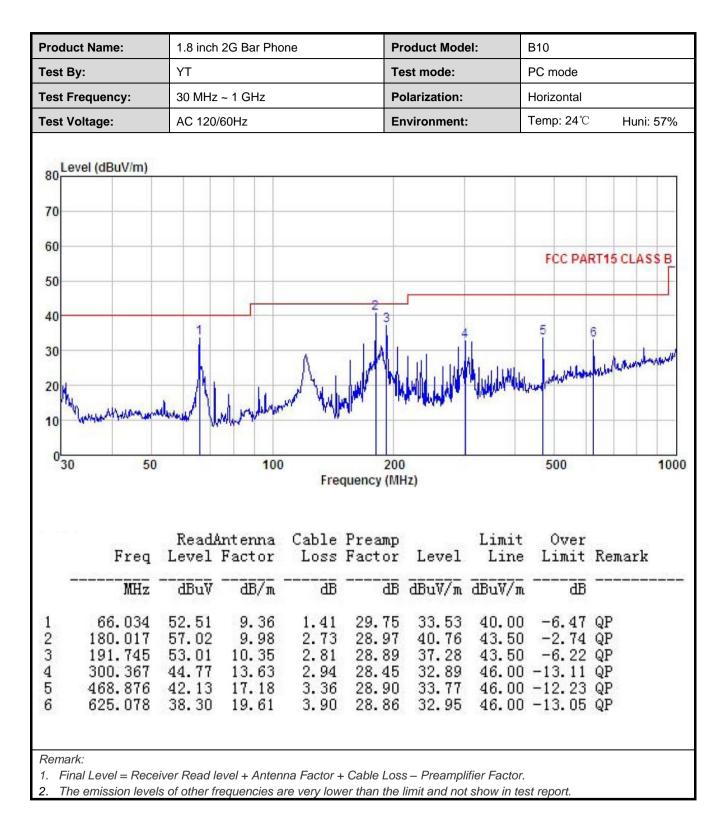


Measurement Data:

		1.8 inch	2G Bar Pho	ne	Pr	Product Model:		B10			
est B	est By: YT		YT		Те	Test mode:		PC mode Vertical			
est Frequency:		30 MHz	30 MHz ~ 1 GHz			plarization:					
est V	oltage:	AC 120/	/60Hz		Er	nvironment	:	Temp: 24 ℃	2	Huni: 57%	
70 50 50 40 30	vel (dBuV/m)			2	34			5	6	CLASS B	
0	Why Jan Whan Jan 50	MAN /	100	Free	200 Duency (MH		Munaw	500		100	
0	Vallandarallan 50	MW/ U	Try -1	Free	200 quency (MH		. Mu				
0			Try -1	Cable	quency (MH Preamp	IZ)	Limit	500 Over		100	
0 30			100 Intenna	Cable	quency (MH Preamp Factor	IZ)	Line	500 Over Limit		100	

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









Above 1GHz:

	uct Name:	1.8 inc	h 2G Bar Ph	one	Product Model:			B10			
Test	By:	ΥT			Те	est mode:		PC mode			
Test	Frequency:	1 GHz	~ 6 GHz		Po	olarization:		Vertical			
Test	Voltage:	AC 120	0/60Hz		Er	nvironment	:	Temp: 24 °C	Huni: 57%		
80	evel (dBuV/m)							FCC	PART 15 (PK)		
70								ru	PART 15 (PK)		
10											
60								ECC	PART 15 (AV)		
50											
50	ustresson and mark								3 Am Alexander Marchine		
40					L. L. March Park	1 martine law of	unnersen	May burney	4		
30	and the man and the second	andreading	run when the Man	rank here and here a	Al and a state of a	2					
30											
20											
1.1											
200											
10											
10	000 1200	1500		2000					5000 60		
10	000 1200	1500		2000 Fre	quency (MF	łz)			5000 60		
10	000 1200	1500			quency (MH	łz)			5000 60		
10	000 1200			Fre			Limit	Over	5000 60		
10	000 1200 Freq	Read	Antenna Factor	Fre Cable	Preamp		Limit Line		5000 60 Remark		
10		Read	Antenna Factor	Fre Cable	Preamp Factor		Line				
10	Freq MHz	Read. Level dBuV	Antenna Factor dB/m	Fre Cable Loss dB	Preamp Factor dB	Level dBuV/m	Line dBuV/m	Limit <u>d</u> B	Remark		
10	Freq	Read. Level	Antenna Factor dB/m	Fre Cable Loss	Preamp Factor dB	Level dBuV/m	Line dBuV/m 74.00	Limit dB -34.91	Remark		
10 010	Freq MHz 2832.082 2832.082 4744.751	Read. Level dBuV 47.26 37.91 48.58	Antenna Factor dB/m 28.29 28.29 31.50	Fre Cable Loss dB 5.17 5.17 6.83	Preamp Factor dB 41.63 41.63 41.90	Level dBuV/m 39.09 29.74 45.01	Line dBuV/m 74.00 54.00 74.00	Limit dB -34.91 -24.26 -28.99	Remark Peak Average Peak		
10 010 10	Freq MHz 2832.082 2832.082 4744.751 4744.751	Read. Level dBuV 47.26 37.91 48.58 38.94	Antenna Factor dB/m 28.29 28.29 31.50 31.50	Fre Cable Loss dB 5.17 5.17 6.83 6.83	Preamp Factor dB 41.63 41.63 41.90 41.90	Level dBuV/m 39.09 29.74 45.01 35.37	Line dBuV/m 74.00 54.00 74.00 54.00	Limit 	Remark Peak Average Peak Average		
10 010	Freq MHz 2832.082 2832.082 4744.751	Read. Level dBuV 47.26 37.91 48.58	Antenna Factor dB/m 28.29 28.29 31.50 31.50	Fre Cable Loss dB 5.17 5.17 6.83	Preamp Factor dB 41.63 41.63 41.90 41.90 42.04	Level dBuV/m 39.09 29.74 45.01 35.37	Line dBuV/m 74.00 54.00 74.00 54.00 74.00 74.00	Limit 	Remark Peak Average Peak Average		



Produc	t Name:	1.8 inch	1.8 inch 2G Bar Phone			oduct Mod	el:	B10		
Test By:		YT				est mode:		PC mode		
lest Fr	equency:	1 GHz ·	~ 6 GHz		Po	plarization:		Horizontal		
Fest Vo	oltage:	AC 120	/60Hz		Er	vironment	:	Temp: 24 ℃	Huni: 57%	
BoLev	el (dBuV/m)									
50 C				1				FCC	PART 15 (PK)	
0										
0								FCC	PART 15 (AV)	
50									3 5	
						1	1 marsh	workenter	monorman	
10			. Automa	manufacture Made	nummer	approximate a	the second second		4	
0	1220 the address address	Here and a second second	and a sub-			2			3 1 4	
0										
0						_				
0100	0 1200	1500		2000					5000 600	
				Free	quency (MH	łz)				
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
-	MHz	dBuV		dB	₫₿	dBuV/m	dBuV/m	ā		
4	2806.823	48.52	28.24	5.14	41.65	40.25	74.00	-33.75	Peak	
1	2806.823	38.93	28.24	5.14	41.65	30.66	54.00	-23.34	Average	
		49.21	31.61			45.81		-28.19		
3					41 00	36.08	54,00	-17.92	Average	
4	4813.252	39.48	31.61	6.81						
3 4	4813.252 4813.252 5946.487 5946.487		31.61	6.81 7.92 7.92	42.04	47.68	74.00	-26.32		