Report No: CCISE190713503

FCC REPORT

Applicant: SWAGTEK

Address of Applicant: 10205 NW 19th St. Suite 101, Miami, FL, 33172

Equipment Under Test (EUT)

Product Name: 1.8 inch 2G Bar Phone

Model No.: A8, PEARL, Q8

Trade mark: LOGIC, iSWAG, UNONU

FCC ID: 055182619

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 29 Jul., 2019

Date of Test: 29 Jul., to 20 Aug., 2019

Date of report issued: 21 Aug., 2019

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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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





2 Version

Version No.	Date	Description
00	21 Aug., 2019	Original

Tested by: Date: 21 Aug., 2019

Reviewed by: 21 Aug., 2019

Project Engineer



3 Contents

		ŀ	Page
1	С	OVER PAGE	1
2	V	ERSION	2
3	С	ONTENTS	3
4		EST SUMMARY	
5		ENERAL INFORMATION	
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	5
	5.3	TEST MODE	5
	5.4	Measurement Uncertainty	5
	5.5	DESCRIPTION OF SUPPORT UNITS	6
	5.6	RELATED SUBMITTAL(S) / GRANT (S)	6
	5.7	DESCRIPTION OF CABLE USED	6
	5.8	LABORATORY FACILITY	
	5.9	LABORATORY LOCATION	
	5.10	TEST INSTRUMENTS LIST	7
6	T	EST RESULTS AND MEASUREMENT DATA	8
	6.1	CONDUCTED EMISSION	8
	6.2	RADIATED EMISSION	11
7	T	EST SETUP PHOTO	17
Q	F	LIT CONSTRUCTIONAL DETAILS	10





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.:	A8, PEARL, Q8
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, 600mA
Remark:	Model No.: A8, PEARL, Q8 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and trademark: A8 model corresponds to the trademark LOGIC. PEARL model correspond to the trademark iSWAG. Q8 model corresponds to the trademark UNONU.
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 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)

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

Report No: CCISE190713503

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	Unshielding	0.8m	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

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





5.10 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	\	/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
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2019	07-20-2021
Cable	HP	10503A	N/A	03-18-2019	03-17-2020
EMI Test Software	AUDIX	E3	,	/ersion: 6.110919	b



6 Test results and Measurement Data

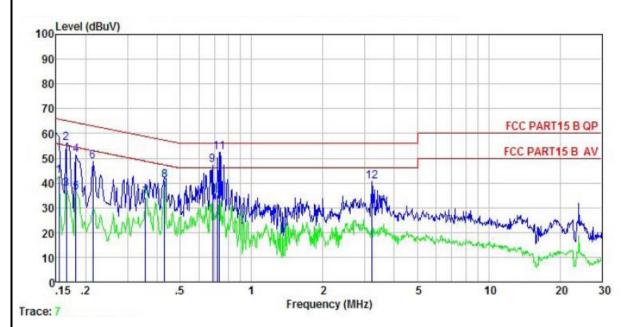
6.1 Conducted Emission

	T T				
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:	,	Lir	mit (dBµV)		
Liiii.	Frequency range (MHz)	Quasi-peak		erage	
	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 Plan	пе			
	AUX Filter AC power Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height-0.8m				
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.: 22.5 °C Hun	nid.: 55%	Press.: 10)1kPa	
Test Instruments:	Refer to section 5.10 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				
Test Tesuits.	1 033				



Measurement data:

Product name:	1.8 inch 2G Bar Phone	Product model:	A8
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%



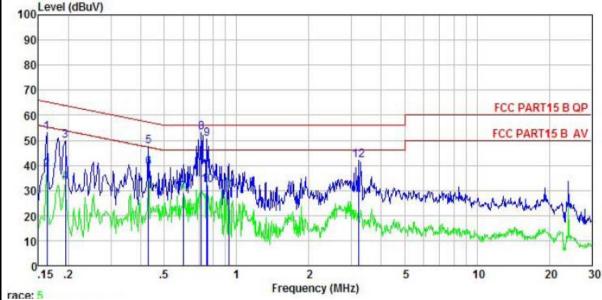
Remark								
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line		Remark
	MHz	—dBu₹	<u>dB</u>	<u>dB</u>	dBu₹	dBu₹	<u>d</u> B	
1	0.154	32.35	-0.45	10.78	42.68	55.78	-13.10	Average
2	0.166	45.91	-0.44	10.77	56.24	65.16	-8.92	QP
3	0.166	27.29	-0.44	10.77	37.62	55.16	-17.54	Average
2 3 4 5 6 7	0.182	41.11	-0.42	10.77	51.46	64.42	-12.96	QP
5	0.182	25.95	-0.42	10.77	36.30			Average
6	0.214	38.19	-0.41	10.76	48.54	63.05	-14.51	QP
7	0.358	23.48	-0.38	10.73	33.83	48.78	-14.95	Average
8	0.431	30.47	-0.38	10.73				Average
9	0.686	36.77	-0.38	10.77	47.16	56.00		
10	0.720	24.68	-0.38	10.78	35.08	46.00	-10.92	Average
11	0.731	41.94	-0.38	10.78		56.00		
12	3.224	30.21	-0.45	10.91	40.67	56.00	-15.33	

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.



Product name:	1.8 inch 2G Bar Phone	Product model:	A8
Test by:	Yaro	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%
100 Level (dBuV)			



Remark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
11.00.00	MHz	dBu∀	<u>dB</u>	₫B	dBu₹	dBu∇	<u>dB</u>	
1	0.162	43.13	-0.68	10.77	53.22	65.34	-12.12	QP
2	0.162	28.45	-0.68	10.77	38.54	55.34	-16.80	Average
3	0.194	39.70	-0.69	10.76	49.77	63.84	-14.07	QP
4	0.194	23.06	-0.69	10.76	33.13	53.84	-20.71	Average
5	0.431	37.40	-0.64	10.73	47.49	57.24	-9.75	QP
6	0.431	28.90	-0.64	10.73	38.99	47.24	-8.25	Average
7	0.601	19.15	-0.64	10.77	29.28			Average
8	0.712	42.94	-0.64	10.78	53.08	56.00	-2.92	QP
1 2 3 4 5 6 7 8 9	0.751	40.55	-0.64	10.79	50.70	56.00	-5.30	
10	0.755	22.01	-0.64	10.79	32.16	46.00	-13.84	Average
11	0.928	20.10	-0.63	10.85		46.00	-15.68	Average
12	3.207	31.86	-0.68	10.91	42.09		-13.91	

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

0.2 Natiated Lillission							
Test Requirement:	FCC Part 15 B S	ection 15.1	09				
Test Method:	ANSI C63.4:2014	ANSI C63.4:2014					
Test Frequency Range:	30MHz to 6000M	lHz					
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver setup:	Frequency	Detect		RBW	VBW	Remark	
·	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value	
	Above 1GHz	Peak		1MHz	3MHz	Peak Value	
		RMS		1MHz	3MHz	Average Value	
Limit:	Frequence 30MHz-88N		Lim	nit (dBuV/m 40.0	@3m)	Remark	
	88MHz-216l			43.5		Quasi-peak Value Quasi-peak Value	
	216MHz-960			46.0		Quasi-peak Value Quasi-peak Value	
	960MHz-10			54.0		Quasi-peak Value	
		54.0 Average Val					
	Above 1G	Hz		74.0		Peak Value	
Test setup:	Below 1GHz Tum Table Ground Plane Above 1GHz	4m			Antenna Tower Search Antenna Test eiver		
	AE SOCM (Turn	EUT		erence Plane	Antenna Towe	er	





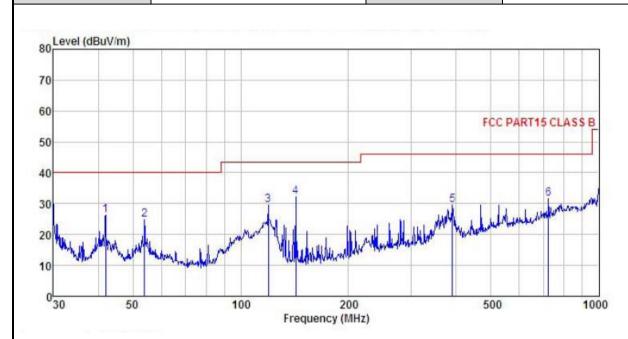
Test Procedure:	the grou 360 deg 2. The EU	T was placed und at a 3 me grees to deter T was set 3 n u, which was u	ter semi-aneomine the pos mine the pos neters away f	choic cambe ition of the hi from the inter	r. The table ighest radia ference-red	was rotated ation. ceiving
	ground		the maximum	n value of the	field stren	
	and the	h suspected on the antenna rotatable tab maximum rea	a was tuned to le was turned	o heights froi	m 1 meter t	
		t-receiver sys d Bandwidth				n and
	limit spe the EUT 10dB m	ecified, then to would be re	esting could be ported. Other se re-tested o	be stopped a wise the emine by one us	nd the peal issions that sing peak, o	did not have quasi-peak or
Test environment:	Temp.:	24 °C	Humid.:	57%	Press.:	1 01kPa
Test Instruments:	Refer to se	ection 5.10 fo	r details			
Test mode:	Refer to se	ection 5.3 for	details			
Test results:	Passed					
Remark:	All of the o		ue above 6G	Hz ware the	niose flooi	r, which were

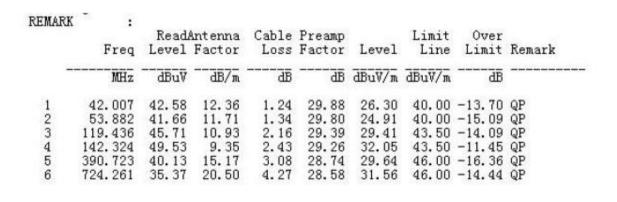


Measurement Data:

Below 1GHz:

Product Name:	1.8 inch 2G Bar Phone	Product Model:	A8
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



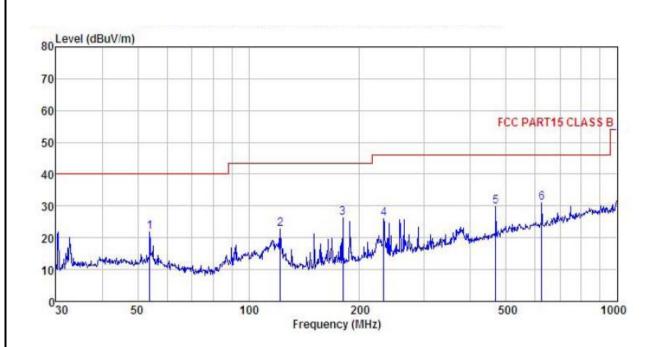


Remark

- 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:	1.8 inch 2G Bar Phone	Product Model:	A8
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



REMARK	: Freq		Antenna Factor				Limit Line		Remark
-	MHz	dBu∜	dB/m	d₿	dB	dBuV/m	dBuV/m	dB	
1	53.882	38.62	11.71	1.34	29.80	21.87	40.00	-18.13	QP
2	121.976	39.22	10.74	2.19	29.38	22.77	43.50	-20.73	QP
3	180.017	42.43	9.98	2.73	28.97	26.17	43.50	-17.33	QP
4	232.532	39.75	12.03	2.83	28.64	25.97	46.00	-20.03	QP
1 2 3 4 5	468.876	38.27	17.18	3.36	28.90	29.91	46.00	-16.09	QP
6	625.078	36.22		3.90				-15.13	- COL

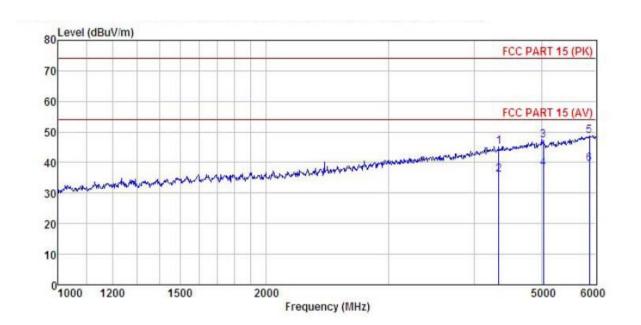
Remark:

- 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 Name:	1.8 inch 2G Bar Phone	Product Model:	A8
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



TOUR MIGHTOUR	•	*****
REMARK	:	
	•	

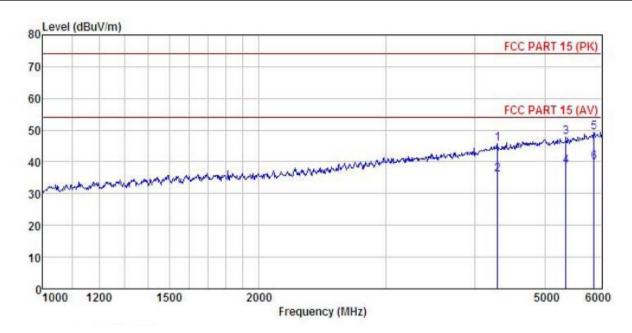
dBuV/m dBuV/m dB	
45.12 74.00 -28.88 Peak	
35.94 54.00 -18.06 Aver	age
47.25 74.00 -26.75 Peak	
37.99 54.00 -16.01 Aver	age
48.68 74.00 -25.32 Peak	
39.65 54.00 -14.35 Aver	age
	35.94 54.00 -18.06 Aver 47.25 74.00 -26.75 Peak 37.99 54.00 -16.01 Aver 48.68 74.00 -25.32 Peak

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:	1.8 inch 2G Bar Phone	Product Model:	A8		
Test By:	Yaro	Test mode: PC mode			
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



REMARE		Read	ReadAntenna		Cable Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
9.7	MHz	dBu∜	dB/m	₫B	dB	dBuV/m	dBuV/m	dB	
1	4295. 151	48.32	30.36	6.54	41.88	45.64	74.00	-28.36	Peak
2	4295.151	38.78	30.36	6.54	41.88	36.10	54.00	-17.90	Average
2 3 4 5	5351.487	47.73	32.26	7.11	41.89	47.82		-26.18	
4	5351.487	38.62	32.26	7.11	41.89	38.71	54.00	-15.29	Average
5	5852.603	48.04	32.67	7.90	42.03	49.34	74.00	-24.66	Peak
6	5852.603	38.56	32.67	7.90	42.03	39.86			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.