Report No: CCISE181102203

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 Feature Phone

Model No.: B3S, Star-S, UM3S

Trade mark: LOGIC, iSWAG, UNONU

FCC ID: 055184518

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 09 Nov., 2018

Date of Test: 09 Nov., to 27 Nov., 2018

Date of report issued: 28 Nov., 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.

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	28 Nov., 2018	Original

Tested by: Date: 28 Nov., 2018

Test Engineer

Reviewed by: Date: 28 Nov., 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:	SWAGTEK
Address of Applicant:	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 Feature Phone
Model No.:	B3S, Star-S, UM3S
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh
AC adapter :	Model: B3S Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 500mA
Remark:	Item No.: B3S, Star-S, UM3S were identical inside, the electrical circuit design, layout, components used and internal wiring. The only difference is that one product has three models, each model corresponds to one brand, three The trademarks are LOGIC and iSWAG and UNONU, the B3S model corresponds to the trademark LOGIC, the Star-S model corresponds to the trademark iSWAG, and the UM3S 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
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)

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 Page 5 of 18

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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

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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
nom Antenna				11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	V	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
Spectrum analyzer	Ronde & Schwarz	F3F40		11-21-2018	11-20-2019
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

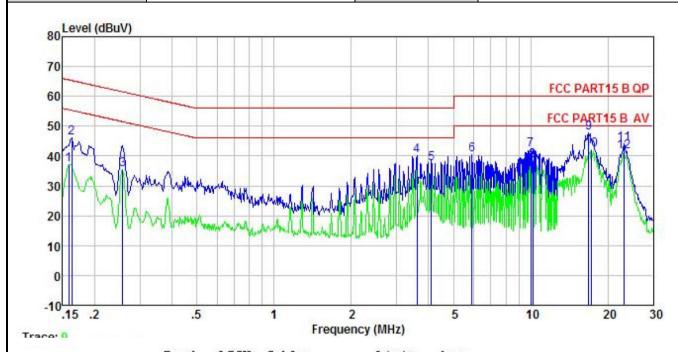
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	FCC Part 15 B Section 15.107			
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz			
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Frequency range (MHz)	Lir	mit (dBµV)		
	, , , ,	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	ne			
	AUX Equipment E.U.T EMI Receiver Remark E.U.T Equipment Under Test LISN LISN 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.: 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:	1.8 inch Feature Phone	Product model:	B3S
Test by:	YT	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%



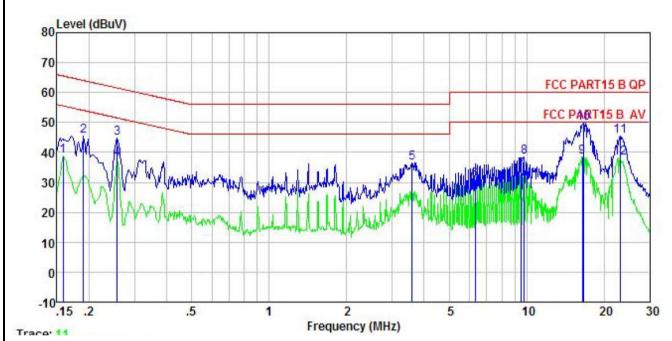
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
<u>-</u>	MHz	dBu₹	<u>dB</u>	₫B	dBu₹	dBu₹	<u>dB</u>		
1 2 3	0.158 0.162	26.28 35.27	0.17 0.17	10.77 10.77	37.22 46.21		-18.34 -19.13	Average OP	
	0.258 3.603	24.57 29.04	0.14 0.17	10.75 10.90	35.46 40.11	51.51		Average	
4 5 6	4.092 5.898	26.47 29.50	0.18 0.23	10.89 10.82	37.54 40.55	60.00	-19.45		
7 8 9	10.019 10.179	30.93 27.12	0.32 0.32	10.94 10.94	42.19 38.38	50.00		Average	
10	16.839 17.291	36.73 30.82	0.30	10.91	47.94 42.03	50.00		Average	
11 12	23.018 23.018	32.95 30.32	0.31 0.31	10.89 10.89	44.15 41.52	60.00 50.00	-15.85 -8.48	QP Average	

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 Feature Phone	Product model:	B3S
Test by:	YT	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%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
3 <u>2</u>	MHz	dBu∀	<u>dB</u>	₫B	dBu₹	dBu∀	<u>d</u> B	
1	0.158	27.04	0.98	10.77	38.79	55.56	-16.77	Average
2	0.190	33.70	0.93	10.76	45.39	64.02	-18.63	QP
3	0.258	32.99	0.95	10.75	44.69	61.51	-16.82	QP
4	0.258	26.03	0.95	10.75	37.73	51.51	-13.78	Average
5	3.584	24.66	1.00	10.90	36.56	56.00	-19.44	QP
6	6.319	18.89	1.02	10.81	30.72	50.00	-19.28	Average
7	9.552	22.37	1.02	10.92	34.31	50.00	-15.69	Average
1 2 3 4 5 6 7 8 9	9.809	26.39	1.02	10.93	38.34	60.00	-21.66	QP
9	16.486	26.75	0.83	10.91	38.49	50.00	-11.51	Average
10	16.573	38.15	0.83	10.91	49.89		-10.11	
11	23.018	33.86	0.68	10.89	45.43	60.00	-14.57	QP
12	23.140	26.62	0.68	10.89	38.19			Average

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

CIZ Radiated Ellission	1						
Test Requirement:	FCC Part 15 B S	Section 1	5.109				
Test Method:	ANSI C63.4:201	4					
Test Frequency Range:	30MHz to 6000f	MHz					
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Char	nber)	
Receiver setup:	Frequency	Dete	ctor	RBW	VB\		Remark
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value
	Above 1GHz	Pea		1MHz	3MF		Peak Value
		RM		1MHz	3MF	IZ I	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	pΠZ		54.0 54.0			Quasi-peak Value
	Above 1GI	Ηz		74.0			Average Value Peak Value
Test setup:	Below 1GHz			74.0			1 car value
	Turn Table 0.8 Ground Plane — Above 1GHz	4m			Searce Anten		
	AE SOCIM (To	EUT Handble)	Ground R	Horn Ante	Ante Controlle	enna Tow	ver Wall





	1						
Test Procedure:	ground degrees 2. The EU	at a 3 meter s to determine T was set 3 n	semi-anechoi the position neters away f	c camber. The of the highestrom the inter	ne table wa st radiation. ference-red	ceiving	
	antenna, which was mounted on the top of a variable-height antenna tower.						
	ground		the maximun	n value of the	field stren		
	and the	h suspected on the antennal rotatable tab maximum rea	a was tuned to le was turned	o heights fror	m 1 meter t	o 4 meters	
	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 crecorded	bserved valu	e above 6GH	Iz ware the n	iose floor ,	which were no	

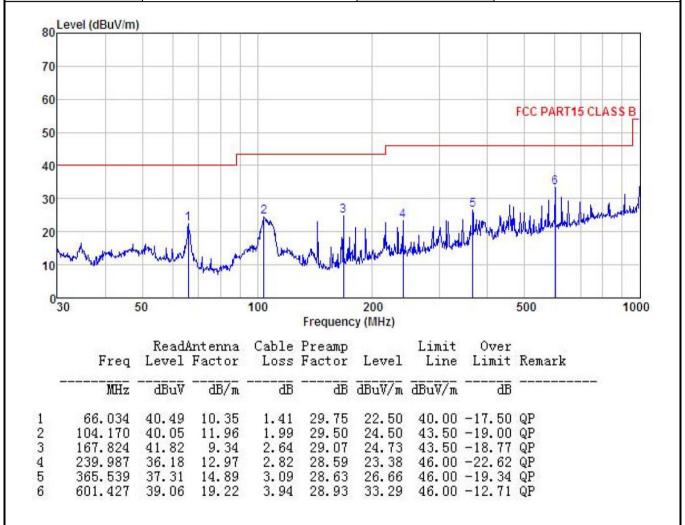




Measurement Data:

Below 1GHz:

Product Name:	1.8 inch Feature Phone	Product Model:	B3S
Test By:	YT	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ 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.





oduct Nar	ne:	1.8 inch	n Feature	Phone		Produc	t Model:	B3	3S	
st By:		YT				Test m	ode:	PC	C mode	
st Freque	ncy:	30 MHz	z ~ 1 GHz	<u>'</u>		Polariz	ation:	Н	orizontal	
st Voltage	e :	AC 120)/60Hz			Enviro	nment:	Te	emp: 24 ℃	Huni: 5
Level	(dBuV/m)									
80										
70										
60			1						FOC DARTA	F 01 4 0 0 D
50									FCC PART1	5 CLASS B
30										
40										G
30					2	3	4	5		6
30		1			2	3	1111	5	My daylast John State	6 Maritialra
	al.	1		Mu	2	3 	A A A A A A A A A A A A A A A A A A A	5 Laphantachah	hall ideal are bedieved	6 Melyhaknahur
30	and the second second	orange of	Malanana	w Many	2	3	A A A A A A A A A A A A A A A A A A A	5 MALINI	h del dad as had state	6 Melderakrahre
30 20 10 May (**)			The Way and	100	2 Apply and the second	3	Alah Adda.	5		
30	a proposition of the second		The Way and	100	Frequence	200 cy (MHz)	A House	5	500	6 Address Andress
30 20 10 May (**)	5	0 Read!	ant enna	Cable	Preamp	y (MHz)	Limit	5 Over		
30 20 10 May (**)	5	0 Read!	Market .	Cable	- 5	y (MHz)		Over		
30 20 10 May (**)	5	0 Read!	ant enna	Cable	Preamp Factor	y (MHz)	Line	Over	500	
30 20 10 0 30	Freq MHz 66.266	Read! Level dBuV 38.12	Antenna Factor dB/m	Cable Loss ———dB	Preamp Factor dB	Level dBuV/m 20.05	Line dBuV/m 40.00	Over Limit ——dB	500 Remark	
30 20 10 0 30	Freq MHz 66.266 67.824	Read! Level dBuV 38.12 46.50	antenna Factor dB/m 10.27 9.34	Cable Loss 	Preamp Factor dB 29.75 29.07	Level dBuV/m 20.05 29.41	Line dBuV/m 40.00 43.50	Over Limit ———————————————————————————————————	500 Remark QP QP	
30 20 10 0 30 	Freq MHz 66.266	Read! Level dBuV 38.12	Antenna Factor dB/m	Cable Loss ———dB	Preamp Factor ————————————————————————————————————	Level dBuV/m 20.05 29.41 28.71 26.90	Line dBuV/m 40.00 43.50 46.00 46.00	Over Limit ——dB	500 Remark QP QP QP QP QP QP	

Remark

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

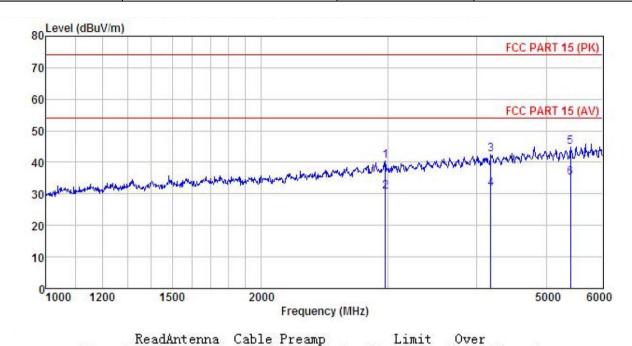
^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.





Above 1GHz:

Product Name:	1.8 inch Feature Phone	Product Model:	B3S
Test By:	YT	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	dB/m	<u>ab</u>	<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	2977.790	48.10	28.56	5.33	41.52	40.47	74.00	-33.53	Peak
2	2977.790	38.23	28.56	5.33	41.52	30.60	54.00	-23.40	Average
3	4185.457	47.51	30.55	6.37	41.81	42.62	74.00	-31.38	Peak
4	4185.457	36.59	30.55	6.37	41.81	31.70	54.00	-22.30	Average
5	5407.773	47.31	32.31	7.13	41.86	44.89	74.00	-29.11	Peak
5 6	5407.773	37.63	32.31	7.13	41.86	35.21	54.00	-18.79	Average

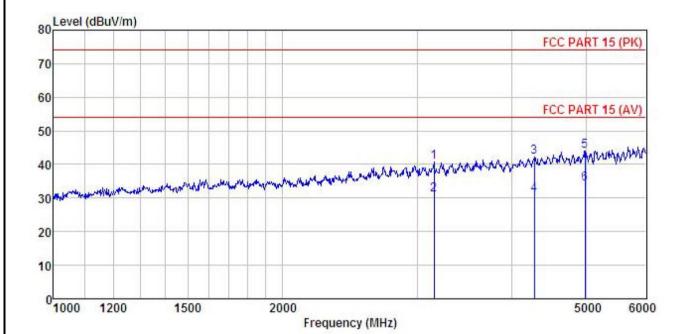
Remark:

- 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:	1.8 inch Feature Phone	Product Model:	B3S
Test By:	YT	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line		Remark
	MHz	—dBu₹			<u>ab</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	3159.171	48.03	28.70	5.41	41.43	40.71	74.00	-33.29	Peak
2	3159.171	38.20	28.70	5.41	41.43	30.88	54.00	-23.12	Average
3	4276.423	46.88	30.71	6.52	41.87	42.24	74.00	-31.76	Peak
4	4276.423	35.74	30.71	6.52	41.87	31.10	54.00	-22.90	Average
5	4988.864	47.16	31.88	6.93		44.09			
6	4988.864	37.33	31.88	6.93	41.88	34.26	54.00	-19.74	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.