

Report No: CCISE180407803

FCC REPORT

Applicant:	Sky Phone LLC
Address of Applicant:	1348 Washington Av. Suite 350, Miami Beach, Florida, United States
Equipment Under Test (E	EUT)
Product Name:	Feature Phone
Model No.:	SKY TANK
Trade mark:	SKY DEVICES
FCC ID:	2ABOSSKYTANK
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	18 Apr., 2018
Date of Test:	18 Apr., to 14 May, 2018
Date of report issued:	15 May, 2018
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.

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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2 Version

Version No.	Date	Description
00	15 May, 2018	Original

Tested by:

Zora Lee

Date:

Date:

15 May, 2018

15 May, 2018

Test Engineer

Reviewed by:

Wimer Many

Project Engineer

<u>CCIS</u>

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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:	Sky Phone LLC
Address of Applicant:	1348 Washington Av. Suite 350, Miami Beach, Florida, United States
Manufacturer:	Sky Phone LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, Florida, United States

5.2 General Description of E.U.T.

Product Name:	Feature Phone
Model No.:	SKY TANK
Power supply:	Rechargeable Li-ion Battery DC3.7V-5000mAh
AC adapter :	Model: SKY TANK Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 700mA

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
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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

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 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 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: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

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



5.9 Test Instruments list

Radia	Radiated Emission:					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	07-22-2017	07-21-2020
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-16-2018	03-15-2019
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-16-2018	03-15-2019
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	03-07-2018	03-06-2019
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	03-07-2018	03-06-2019
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-07-2018	03-06-2019
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-07-2018	03-06-2019
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	N/A	N/A	CCIS0018	03-07-2018	03-06-2019
10	Coaxial Cable	N/A	N/A	CCIS0020	03-07-2018	03-06-2019

Cond	Conducted Emission:					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2017	07-21-2020
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-07-2018	03-06-2019
3	LISN	CHASE	MN2050D	CCIS0074	03-19-2018	03-18-2019
4	LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018
5	Coaxial Cable	CCIS	N/A	CCIS0086	03-07-2018	03-06-2019
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A



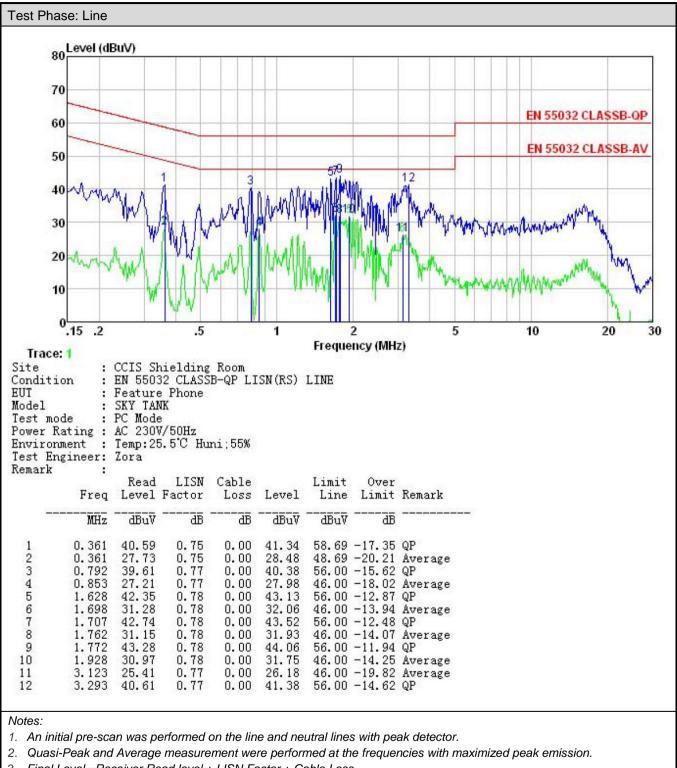
6 Test results and Measurement Data

6.1 Conducted Emission

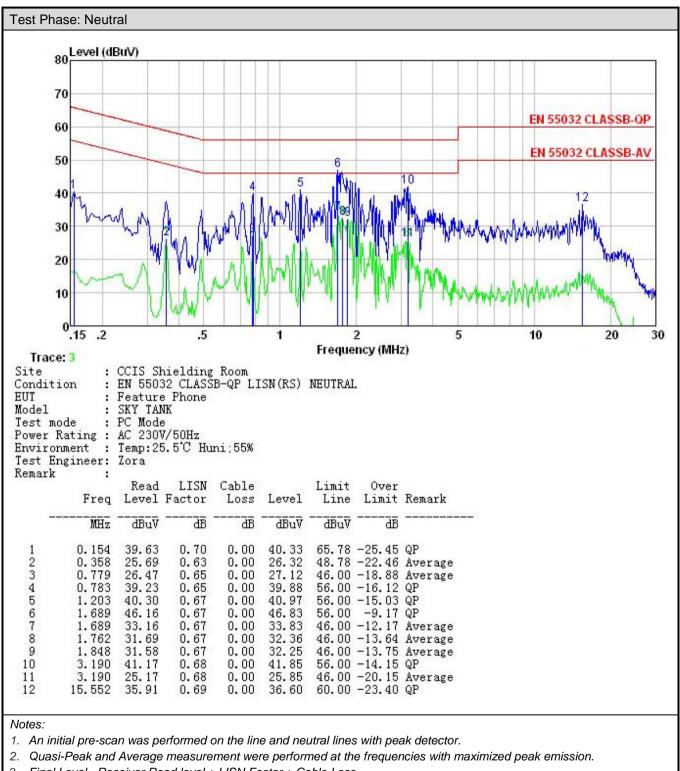
Test Requirement:	FCC Part 15 B Section 15.10)7		
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:	Frequency range (MHz)	Limit (Quasi-peak	(dBµV)	
	0.15-0.5	66 to 56*	Average 56 to 46*	
	0.5-5	56	46	
	0.5-30	60	50	
	* Decreases with the logarith	m of the frequency.		
Test setup:	Reference Pla	ne		
	LISN 40cm 80cm Filter AC power Full E.U.T Filter AC power Equipment E.U.T EMI Receiver Remarkc E.U.T. Equipment Under Test LISN: Line impedence Stabilization Network Test table height=0.8m Network			
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 detai	ls		
Test results:	Pass			



Measurement data:







3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



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6.2 Radiated Emission

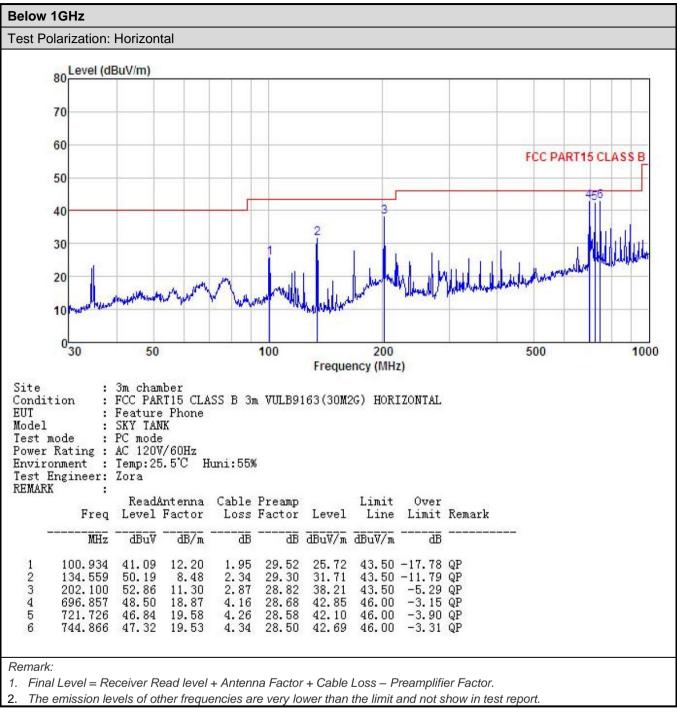
Test Requirement:	FCC Part 15 B Section 15.109										
Test Method:	ANSI C63.4:2014										
Test Frequency Range:	30MHz to 6000MHz										
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)										
Receiver setup:	Frequency Detector RBW VBW Remark										
	30MHz-1GHz Quasi		•		300kHz		Quasi-peak Value				
	Above 1GHz	Pea RM		1MHz 1MHz	3MF 3MF						
Limit:	Frequenc	Limit (dBuV/m @3m)			Remark						
Linnt.	30MHz-88M	40.0			Quasi-peak Value						
	88MHz-216M		43.5			Quasi-peak Value					
	216MHz-960		46.0			Quasi-peak Value					
	960MHz-1G		54.0			Quasi-peak Value					
	Above 1GHz		54.0			Average Value					
			74.0			Peak Value					
Test setup:	Below 1GHz										
	Test Receiver										



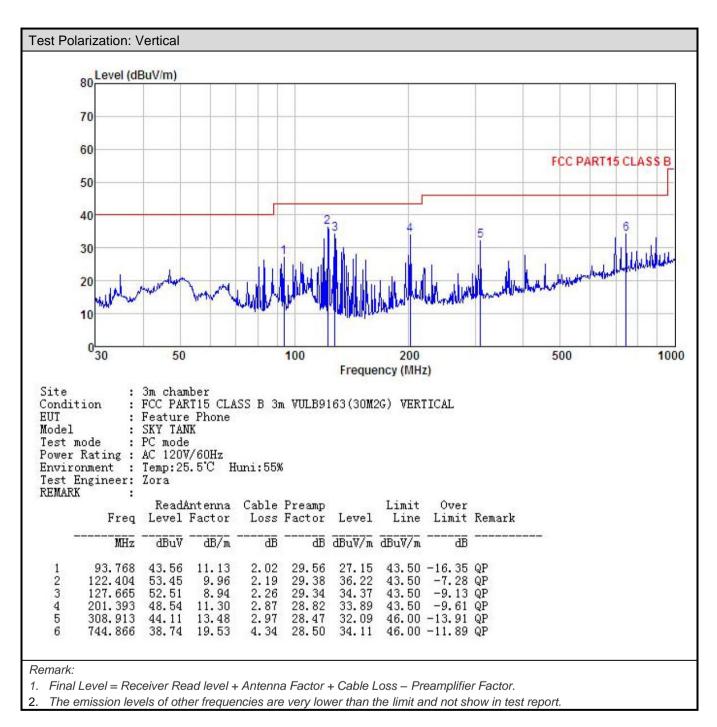
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. 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 10dE 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 section 5.9 for details									
Test mode:	Refer to section 5.3 for details									
Test results:	Passed									
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded									



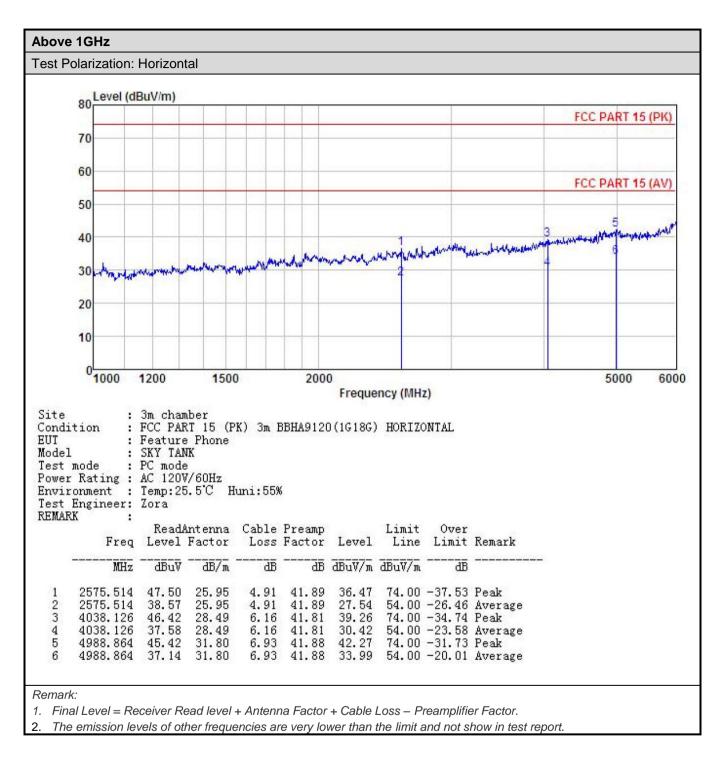
Measurement Data:



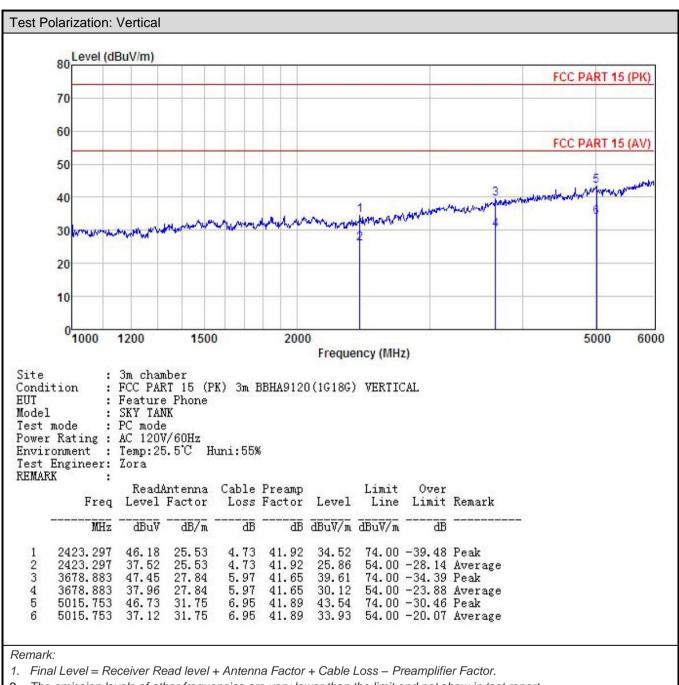












2. The emission levels of other frequencies are very lower than the limit and not show in test report.