

Report No: CCISE190306303

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 Flip2
Trade mark:	SKY DEVICES
FCC ID:	2ABOSSKYFLIP2
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	19 Mar., 2019
Date of Test:	19 Mar., to 23 Apr., 2019
Date of report issued:	24 Apr., 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	24 Apr., 2019	Original

Tested by:

(aven (hen Test Engineer Date:

24 Apr., 2019

Reviewed by:

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Date:

24 Apr., 2019

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:	Sky Phone LLC
Address:	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 Flip2
Power supply:	Rechargeable Li-ion Battery DC3.7V, 600mAh
AC adapter :	Model: SKY Flip2 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 500mA
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)	±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)



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

N/A

5.8 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>

5.9 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
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
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			
	150kHz to 30MHz			
Test Frequency Range:				
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:	Frequency range (MHz)		(dBµV)	
	0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*	
	0.5-5	56	46	
	0.5-30	60	50	
	* Decreases with the logarith			
Test setup:	Reference Plar			
	LISN 40cm 80cm Filter AC power AUX E.U.T Filter AC power Equipment E.U.T EMI Test table/Insulation plane EMI Remark E.U.T. Equipment Under Test LISN Line impedence Stabilization Network Test table height=0.0m			
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 Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

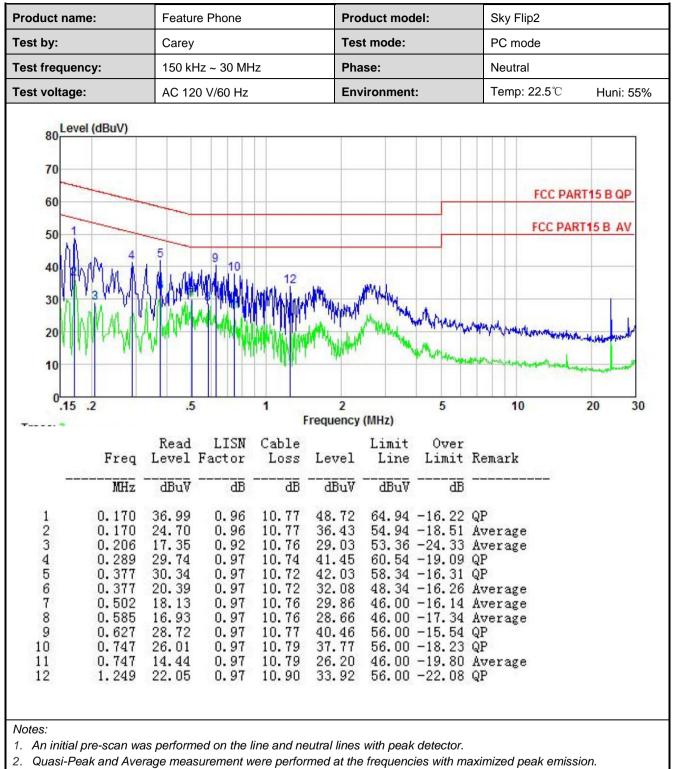


Measurement data:

oduct name:	Feature Phone		Product mo	odel:	Sky Flip2			
est by:	Carey		Test mode:		PC mode	PC mode		
est frequency:	150 kHz ~ 30 MI	Phase:		Line	Line			
est voltage:	AC 120 V/60 Hz	Environme	nt:	Temp: 22.5℃ Huni: 55%				
80 Level (dBuV) 70 60 50 50 40 30 20						ART15 B QP		
10		Anter		a support	12 martine management	herver reduced		
0.15 .2	.5 Read LISN	Cable	2 quency (MHz) Limit		10 Beneric	20 30		
0.15 .2		Free Cable Loss L	quency (MHz)	Over Limit	10 Remark	20 30		

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





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	1					
Test Frequency Range:	30MHz to 6000MHz						
Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)		
Receiver setup:	Frequency	Detect	<u>,</u>		VBW	Remark	
	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value	
	Above 1GHz	Peak			3MHz	Peak Value	
l insite	Frequency			1MHz nit (dBuV/m	3MHz @3m)	Average Value Remark	
Limit:	30MHz-88N		40.0	esiii)	Quasi-peak Value		
	88MHz-216			40.0		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:	Below 1GHz	4m			Antenna Tower Search Antenna Test eiver		
	ROCM	EUT table)		erence Plane	Antenna Towe		



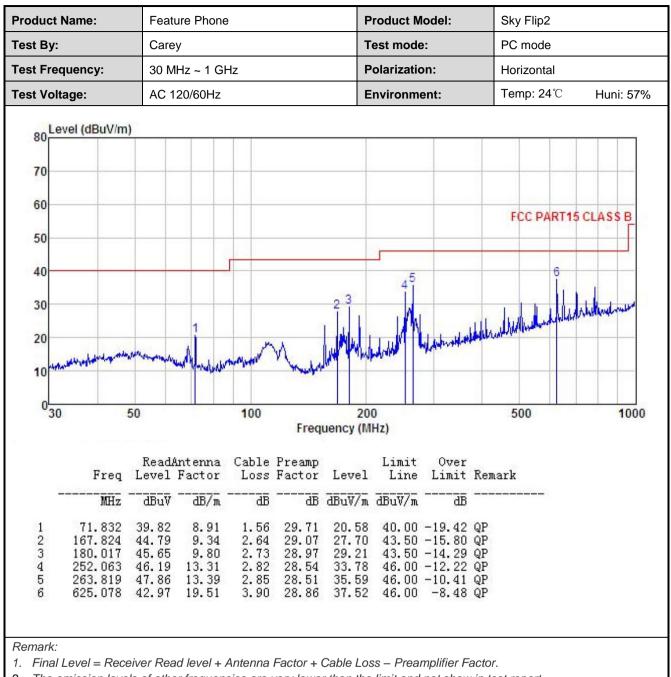
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted 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.
	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.
	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 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:

roduct Name:	Feature Phone					ict Model	:	Sky Flip2		
est By:	Carey				Test r	node:		PC mode		
est Frequency:	30 MHz	2 ~ 1 GHz			Polarization:			Vertical		
est Voltage:	AC 120	/60Hz			Enviro	onment:		Temp: 24°C Huni: 57%		
80 Level (dBuV/n	1)									
70										
60								FCC PAR	T15 CLASS B	
50								TECTAN		
40								5	6	
						-				
30			1	2		34				
20 10 Helen Johnson	homemory	Aludia	m fu	2 Welling	N. J.	34	life taken blu	allelala		
20 Hiley Instant	14 Mar	Almhina	100	Frequer	200 ncy (MHz)	34	life taken ble			
20 10 10 30			Cable	Frequer	200 ncy (MHz)	34 Limit Line	Over	alulululu	A Helphanenner	
20 10 10 30	ReadA Level		Cable	Preamp Factor	200 ncy (MHz)	Limit Line	Over	aluu uu	A Helphanenner	





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



Above 1GHz:

Product	Name:	Featur	re Phone			Pro	duct Mo	del:	Sky Flip2		
est By:	:	Carey				Tes	st mode:		PC mode		
est Fre	equency:	1 GHz	: ~ 6 GHz		F		arization	:	Vertical		
est Vo	ltage:				vironmen	it:	Temp: 24℃ Huni: 57		57%		
Le	vel (dBuV/m)										
80									FCC I	PART 15 (PK)]
70											
60										-	
-		_	_						FCC I	PART 15 (AV)	
50									3	5 Sundana balanda Mary	
40							hannow	duces have an end of	reporter the second		
30	karapatikan terran Ma	amount	warment	waynall	Annun	HAD VOIL THE	2				
20											
10	_	_									
0					-						
10	00 1200	150	0	200		ncy (MHz)				5000 600	00
		ReadA	ntenna	Cable	Preamp		Limit	Over			
	Freq	ReadA Level	ntenna Factor	Cable Loss	Preamp	Level	Limit	Over Limit	Remark		
	Freq MHz	ReadA Level dBuV	Factor	Cable Loss 	Preamp Factor	Level dBuV/m	Limit Line	Limit	Remark	_	
1	MHz 3170.512	Level dBuV 45.60	Factor 	Loss dB 5.41	Preamp Factor dB 41.42	Level <u>dBuV/m</u> 40.30	Limit Line dBuV/m 74.00	Limit 	 Peak	-	
2	MHz 3170.512 3170.512	Level dBuV 45.60 37.83	Factor 	Loss dB 5.41 5.41	Preamp Factor dB 41.42 41.42	Level dBuV/m 40.30 32.53	Limit Line dBuV/m 74.00 54.00	Limit -33.70 -21.47	 Peak Average	_	
2 3 4	MHz 3170.512 3170.512 4369.367 4369.367	Level dBuV 45.60 37.83 46.10 38.25	Factor 	Loss dB 5.41 5.41 6.65 6.65	Preamp Factor dB 41.42 41.42 41.94 41.94	Level dBuV/m 40.30 32.53 44.00 36.15	Limit Line dBuV/m 74.00 54.00 74.00 54.00	Limit 	Peak Average Peak Average	-	
2 3 4 5	MHz 3170.512 3170.512 4369.367 4369.367 5349.948	Level dBuV 45.60 37.83 46.10 38.25 47.25	Factor dB/m 28.71 28.71 30.87 30.87 32.25	Loss dB 5.41 5.41 6.65 6.65 7.11	Preamp Factor dB 41.42 41.42 41.94 41.94 41.89	Level dBuV/m 40.30 32.53 44.00 36.15 47.33	Limit Line dBuV/m 74.00 54.00 74.00 54.00 74.00	Limit -33.70 -21.47 -30.00 -17.85 -26.67	 Peak Average Peak Average Peak	-	
2 3 4	MHz 3170.512 3170.512 4369.367 4369.367	Level dBuV 45.60 37.83 46.10 38.25	Factor dB/m 28.71 28.71 30.87 30.87 32.25	Loss dB 5.41 5.41 6.65 6.65 7.11	Preamp Factor dB 41.42 41.42 41.94 41.94	Level dBuV/m 40.30 32.53 44.00 36.15 47.33	Limit Line dBuV/m 74.00 54.00 74.00 54.00 74.00	Limit -33.70 -21.47 -30.00 -17.85 -26.67	Peak Average Peak Average	-	

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



