

Report No: CCISE160404903

FCC REPORT

Applicant:	Swagtek				
Address of Applicant:	10205 NW 19th Street, STE101, Miami, FL 33172, USA				
Equipment Under Test (EUT)					
Product Name:	1.77 Inch 3G Feature Phone				
Model No.:	M6				
Trade mark:	LOGIC				
FCC ID:	O551770416				
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B				
Date of sample receipt:	27 Apr., 2016				
Date of Test:	27 Apr., to 09 May, 2016				
Date of report issued:	09 May, 2016				
Test Result:	Pass *				

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

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.



Version 2

Version No.	Date	Description
00	09 May, 2016	Original

Tested by:

Steven Ciu Test Engineer

09 May, 2016

Reviewed by:

aver then

Date:

Date:

09 May, 2016

Project Engineer



3 Contents

		Pag	е
1	C	COVER PAGE	1
2	١	/ERSION	2
3	C	CONTENTS	3
4	٦	EST SUMMARY	4
5	C	GENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	5
	5.3	Test Mode	5
	5.4	DESCRIPTION OF SUPPORT UNITS	6
	5.5	LABORATORY FACILITY	6
	5.6	LABORATORY LOCATION	6
	5.7	Test Instruments list	7
6	٦	EST RESULTS AND MEASUREMENT DATA	8
	6.1	CONDUCTED EMISSION	8
	6.2	RADIATED EMISSION	1
7	٦	EST SETUP PHOTO1	7
8	E	EUT CONSTRUCTIONAL DETAILS	8



4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part 15.107	Pass		
Radiated Emission	Part 15.109	Pass		

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	Swagtek
Address of Applicant:	10205 NW 19th Street, STE101, Miami, FL 33172, USA
Manufacturer/ Factory:	Swagtek
Address of Manufacturer/Factory:	10205 NW 19th Street, STE101, Miami, FL 33172, USA

5.2 General Description of E.U.T.

Product Name:	1.77 Inch 3G Feature Phone
Model No.:	M6
Power supply:	Rechargeable Li-ion Battery DC3.7V-700mAh
AC adapter :	Model: M6 Input: AC100-240V 50/60Hz 0.1A Output: DC 5.0V, 0.5A

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			
vertical polarities were performed.	the ground plane of 3m chamber. Measurements in both horizontal and During the test, each emission was maximized by: having the EUT II operating modes, rotated about all 3 axis (X, Y, & Z) and considered		

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 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
HP	Printer	CB495A	05257893	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	Т8	N/A	FCC ID

5.5 Laboratory Facility

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

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• 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.

5.6 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



5.7 Test Instruments list

Radia	Radiated Emission:							
ltem	Test Equipment	Test Equipment Manufacturer M		Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-25-2016	03-25-2017		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-25-2016	03-25-2017		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2016	03-31-2017		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2016	03-31-2017		
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-30-2016	03-30-2017		
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-24-2016	03-24-2017		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

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	08-23-2014	08-22-2017			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-24-2016	03-24-2017			
3	LISN	CHASE	MN2050D	CCIS0074	03-26-2016	03-26-2017			
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2016	03-31-2017			
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			



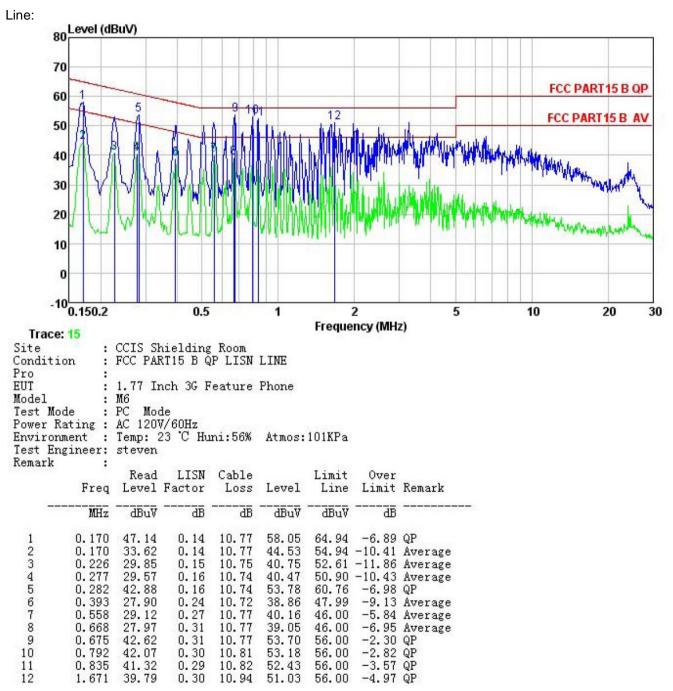
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	07				
Test Method:	ANSI C63.4:2009					
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz				
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:		Limit	(dBµV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30 * Decreases with the logarith	60	50			
Test setup:	Reference Pla	· ·				
Toot procedure	LISN 40cm 80ci AUX Equipment E.U.T Fequipment E.U.T E.U.T Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m 1.	Filter AC p				
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices and a LISN that provides a 500 termination. (Please referst photographs). Both sides of A.C. line and interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.). The bedance for the measu e also connected to the ohm/50uH coupling im s to the block diagram e checked for maximur and the maximum emiss d all of the interface ca	he provide a ring equipment. e main power through pedance with 500hm of the test setup and m conducted sion, the relative ables must be changed			
Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 101kPa			
Measurement Record:		 U	ncertainty: ±3.28dB			
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

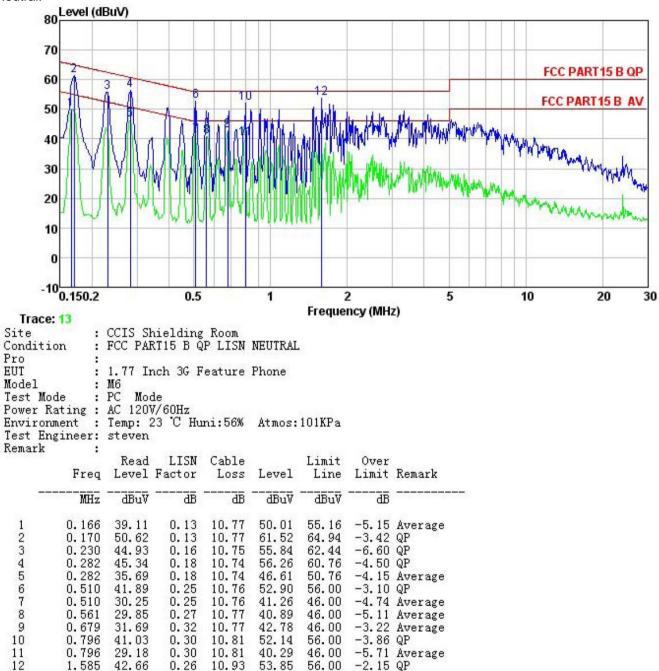


Measurement data:









Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.





6.2 Radiated Emission

Test Requirement:	FCC Part 15 B	FCC Part 15 B Section 15.109					
Test Method:	ANSI C63.4:200	ANSI C63.4:2009					
Test Frequency Range:	30MHz to 6000MHz						
Test site:	Measurement D	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Receiver setup:	Frequency	Dete	ctor	RBW	VB۱	Ν	Remark
	30MHz-1GHz	Quasi-		120kHz	300kHz		Quasi-peak Value
	Above 1GHz	Pea		1MHz	3MF		Peak Value
Limit:	Frequenc	RN		1MHz (dBuV/m @	3MF	1Z	Average Value Remark
Limit.	30MHz-88M			40.0	2011)	0	Quasi-peak Value
	88MHz-216			43.5			Quasi-peak Value
	216MHz-960			46.0			Quasi-peak Value
	960MHz-10			54.0			Quasi-peak Value
	Above 1G	J -7		54.0			Average Value
	Above IGI	IZ		74.0			Peak Value
	Below 1GHz						
		E EUT (Turntable)	G Test Recei	3m round Reference Plane	Hom Antenn	Contro	Interna Tower



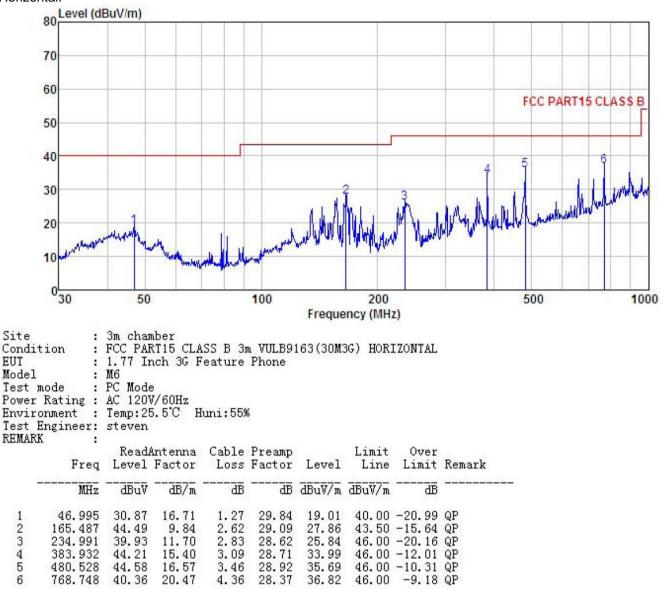
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	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.: 25 °C Humid.: 55% Press.: 1 01kPa
Measurement Record:	Uncertainty: ±4.88dB
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



Measurement Data:

Below 1GHz

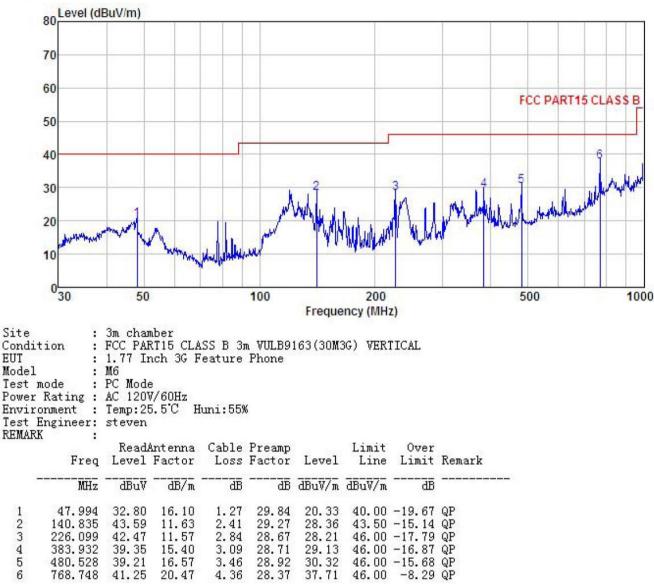
Horizontal:







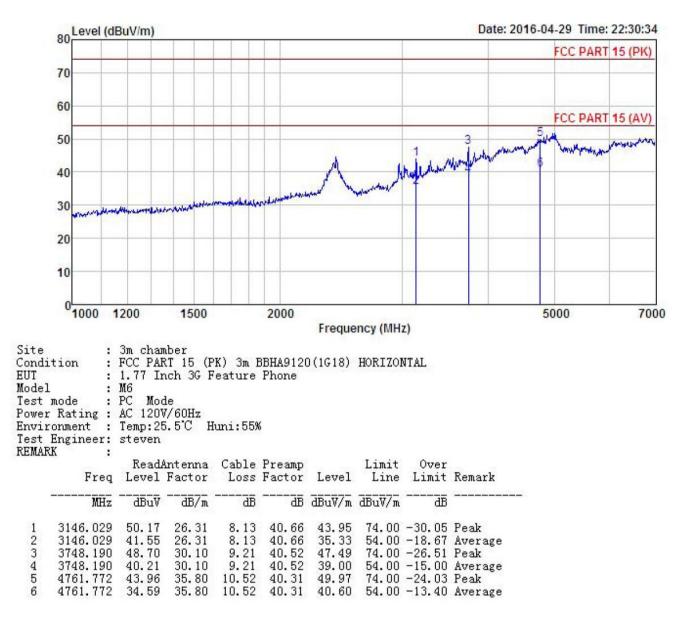
Vertical:





Above 1GHz

Horizontal:



<u>CCIS</u>

Vertical:

