

# FCC REPORT

Applicant:	AZUMI S.A		
Address of Applicant:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panamá City, Rep.Panamá		
Equipment Under Test (E	:UT)		
Product Name:	Mobile phone		
Model No.:	I		
FCC ID:	QRP-AZUMII		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B: 2011		
Date of sample receipt:	14 Apr., 2013		
Date of Test:	15 Apr., to 28 Apr.,2013		
Date of report issued:	29 Apr.,2013		
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.

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# 2 Version

Version No.	Date	Description
00	29 Apr.,2013	Original

Prepared By: Date: 28 Apr.,2013 **Report Clerk** Check By: Date: 28 Apr.,2013 **Project Engineer** 



Dago

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# 4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	Pass
Radiated Emission	Part15.109	Pass

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

Project No.: CCIS130400112RF



# **5** General Information

## 5.1 Client Information

Applicant:	AZUMI S.A
Address of Applicant:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panamá City, Rep. Panamá
Manufacturer:	AZUMI (HK) Limited
Address of Manufacturer:	RM 2309, 23/F HO KING COMM CTR, 2-16 FAYUEN ST, MONGKOK KOWLOON, HONG KONG
Factory:	SHENZHEN CHINO-E ELECTRONIC INDUSTRY CO., LTD.
Address of Factory:	chino-E Industrial Park, longhua, Baoan Area, shenzhen

### 5.2 General Description of E.U.T.

Product Name:	Mobile phone
Model No.:	1
AC adapter:	Input:100-240V AC,50/60Hz 0.15A
	Output:5.0V DC MAX400mA
Power supply:	Rechargeable Li-ion Battery DC3.7V

#### 5.3 Operating Modes

Operating mode Detail description				
Downloading mode	Downloading mode Keep the EUT in EUT transfer data with pc mode(Worst case)			
Playing mode	Keep the EUT in Playing mode			
Recording mode	Keep the EUT in Recording mode			
FM mode	Keep the EUT in FM receiever mode			
TV mode	Keep the EUT in TV receiever 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.



#### FCC ID/DoC Serial Number Manufacturer Description Model 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 ΗP Printer CB495A 05257893 DoC

# 5.4 Description of Support Units

#### 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: 0755-23118282 Fax: 0755-23116366



# 5.7 Test Instruments list

Radiated Emission:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr.01 2013	Mar. 31 2014
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 03 2013
4	Double-ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May. 29 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014
11	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2013
13	Spectrum analyzer	Rohde & Schwarz	FSP	CCIS0023	May 29 2012	May 28 2013
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A

Cond	Conducted Emission:						
Item Test Equipment		Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date	
nem	rest Equipment	Manufacturer		No.	(dd-mm-yy)	(dd-mm-yy)	
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 08 2013	
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2012	May. 24 2013	
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2013	Mar. 31 2014	
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014	



# 6 Test results and Measurement Data

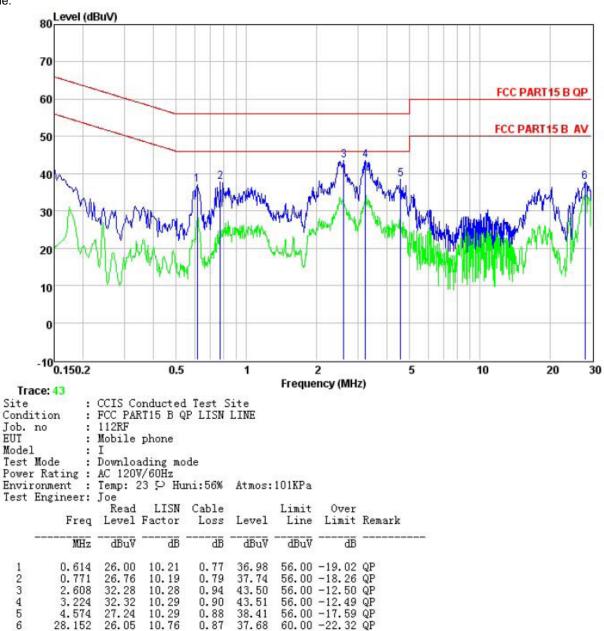
# 6.1 Conducted Emission

Test Requirement:	FCC Part15 B Section 15.107				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
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	60	50		
Test setup:	Reference Plane	•	_		
Test procedure	AUX     E.U.T       Filter     AC power       Filter     AC power       Equipment     E.U.T       Test table/Insulation plane     EMI       Remark     E.U.T: Equipment Under Test       LISN: Line Impedence Stabilization Network       Test table height=0.8m				
	<ol> <li>The E.U.T and simulators are connected to the main power through impedance stabilization network(L.I.S.N.). Which provide a 500 licoupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power that provides a 500hm/50uH coupling impedance with 500hm tege (Please refers to the block diagram of the test setup and photog)</li> <li>Both sides of A.C. line are checked for maximum conducted into order to find the maximum emission, the relative positions of equipment of the interface cables must be changed according to ANSI C63 conducted measurement.</li> </ol>				
Test environment:	Temp.: 23 °C Humid	d.: 56% Pres	ss.: 1 01kPa		
Measurement Record:			Uncertainty: 3.28dB		
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Pre-scan all test mode in the se worse case mode.	ection 5.3, and found the	bleow mode which it is		
Test results:	Pass				



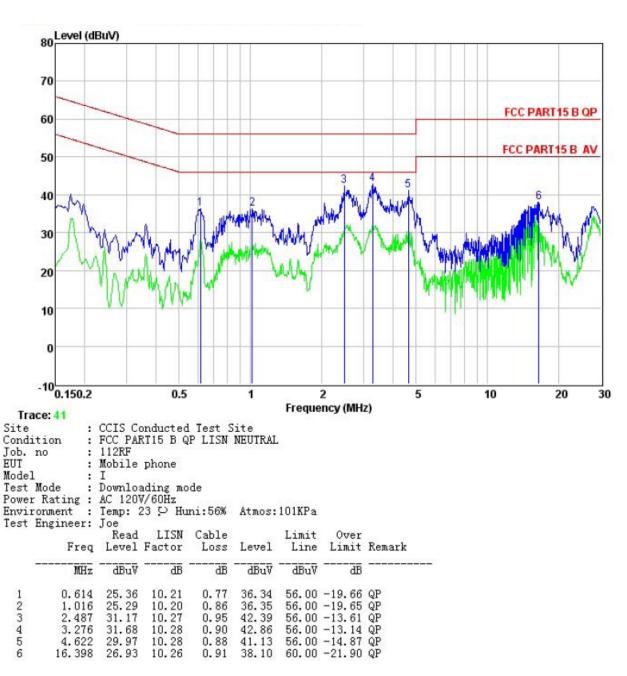
#### Measurement data:

Line:





Neutral:



Notes:

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

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

3. The value of Average is too low, so not show in test data.



0.2						
	Test Requirement:	FCC Part15 B Section 15.109				
	Test Method:	ANSI C63.4:2003				
	Test Frequency Range:	30MHz to 6000MHz				
	Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark
		30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
		Above 1GHz	Peak	1MHz	3MHz	Peak Value
			Peak	1MHz	10Hz	Average Value
	Limit:	Freque		Limit (dBuV/		Remark
		30MHz-8		40.0		Quasi-peak Value
		88MHz-21		43.5		Quasi-peak Value
		216MHz-9		46.0		Quasi-peak Value
		960MHz-	1GHz	54.0		Quasi-peak Value
		Above 1	GHz	54.0		Average Value
	Test setup:			/4.(	)	Peak Value
		Above 1GHz 74.0 Below 1GHz		Antenna RF Test Receiver	_	

#### 6.2 Radiated Emission



1. 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.			
2. 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.			
Temp.: 25 °C Humid.: 55% Press.: 1 01kPa			
Uncertainty: 4.88dB			
Refer to section 5.7 for details			
Pre-scan all test mode in the section 5.3, and found the bleow mode which it is worse case mode.			
Passed			

Remark:

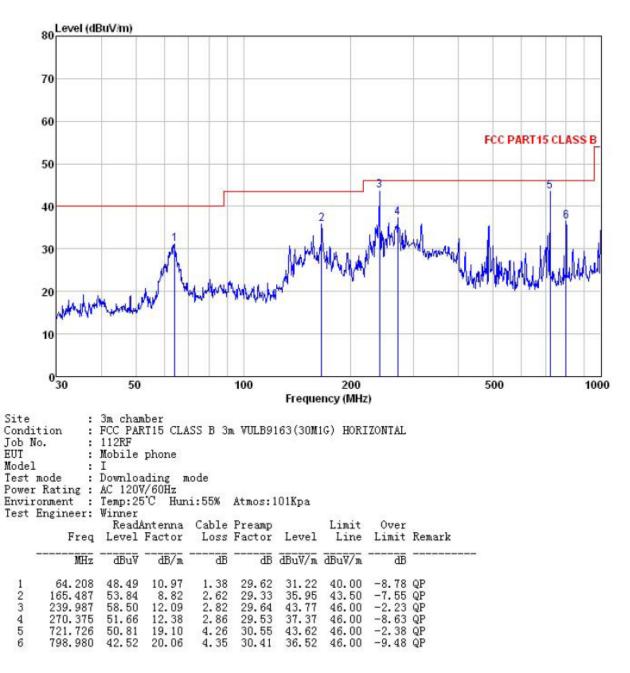
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.



#### **Measurement Data**

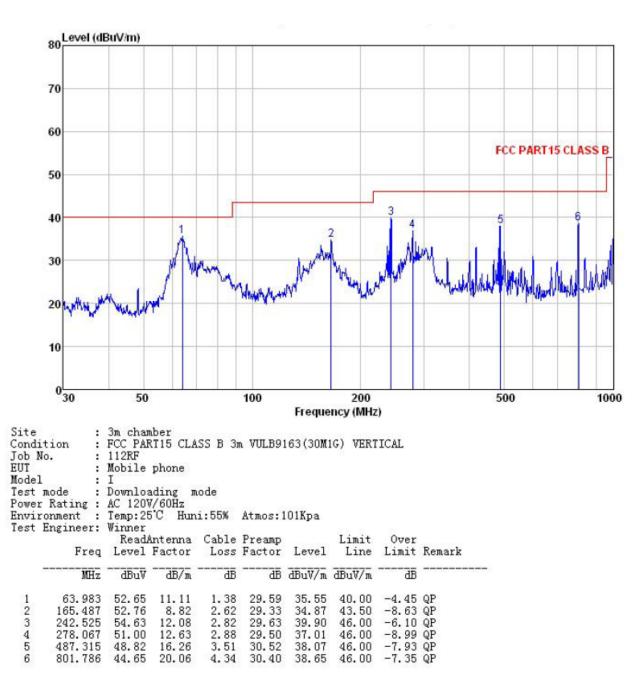
Below 1GHz

Horizontal:



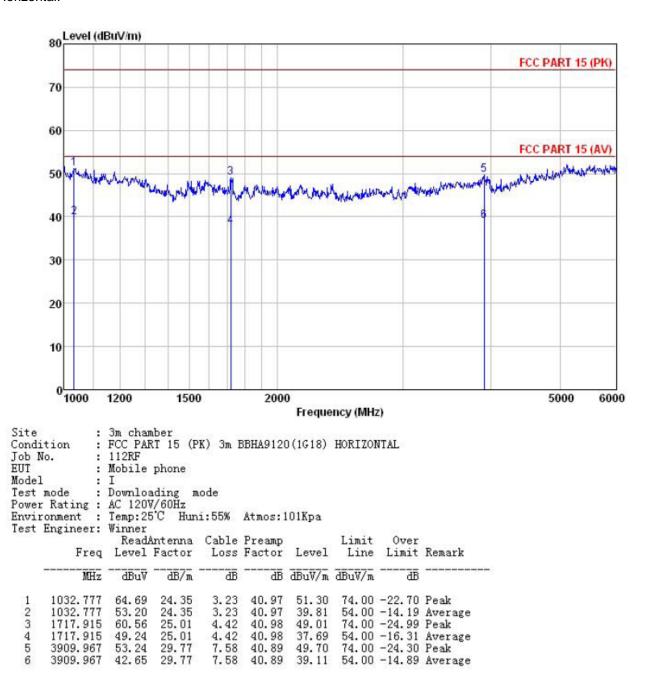


Vertical:





Above 1GHz Horizontal:





Vertical:

