

Report No: CCISE160804005

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.:	KINZO A5 OLi
Trade mark:	AZUMI
FCC ID:	QRP-AZUMIKA5OLI
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	15 Aug., 2016
Date of Test:	15 Aug., to 19 Sep., 2016
Date of report issued:	20 Sep., 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.

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2 Version

Version No.	Date	Description
00	20 Sep., 2016	Original

Tested by:

YT Yang

20 Sep., 2016

Test Engineer

Reviewed by:

avey Chen

Date:

Date:

20 Sep., 2016

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	

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



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 LTD
Address of Manufacturer:	FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING 16-26 KWAI TAK STREET KWAI CHUNG, HK
Factory:	LWIN HK CO., LIMITED
Address of Factory:	Room 9C, A Zone, Shenye Tairan Hongsong building, Tairan Six Road North, CheGongMiao, FuTian District, Shenzhen, Guangdong Province, P.R.China

5.2 General Description of E.U.T.

Product Name:	Mobile phone	
Model No.:	KINZO A5 OLi	
Power supply:	Rechargeable Li-ion Battery DC3.8V-2100mAh	
AC adapter :	Model: TPA-46B050100UU Input: AC100-240V 50/60Hz 0.2A Output: DC 5.0V, 1A	

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
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

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

5.6 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.

5.7 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



5.8 Test Instruments list

Radia	Radiated Emission:					
Item Test Equipmer		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	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	03-28-2016	03-28-2017
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2016	03-28-2017
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

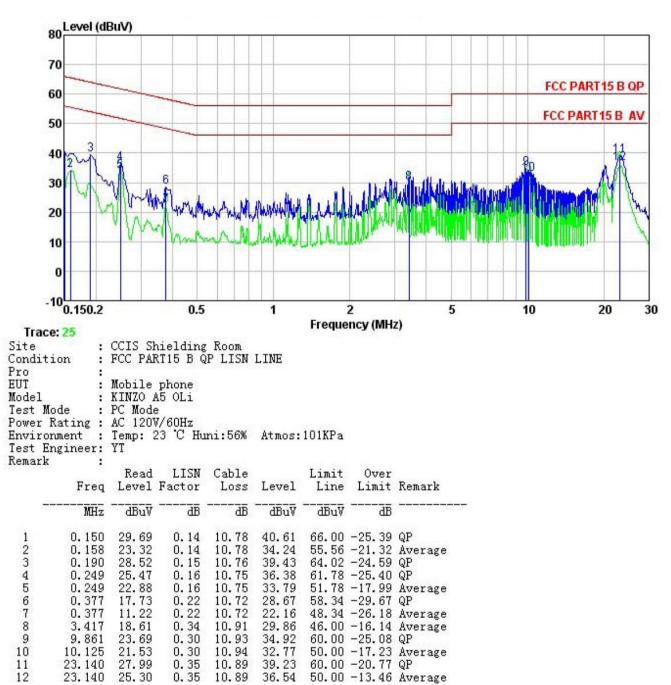
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:		Limit	(dBµV)		
Linne	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		
	* Decreases with the logarith	nm of the frequency.			
Test setup:	Reference Pla	ne			
Test messed up	LISN 40cm 80c AUX Equipment E.U.T Test table/Insulation plane E.U.T Remark E.U.T: Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver			
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices are a LISN that provides a 50 termination. (Please reference) photographs). Both sides of A.C. line are interference. In order to fill positions of equipment and according to ANSI C63.4: 	on network(L.I.S.N.). The bedance for the measure e also connected to the ohm/50uH coupling imp s to the block diagram of e checked for maximum and the maximum emiss of all of the interface ca	ne provide a ring equipment. e main power through bedance with 500hm of the test setup and n conducted ion, the relative bles must be changed		
Test environment:	Temp.: 23 °C Hur	Temp.: 23 °C Humid.: 56% Press.: 101kPa			
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for detail	ils			
Test results:	Pass				



Measurement data:

Line:



Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

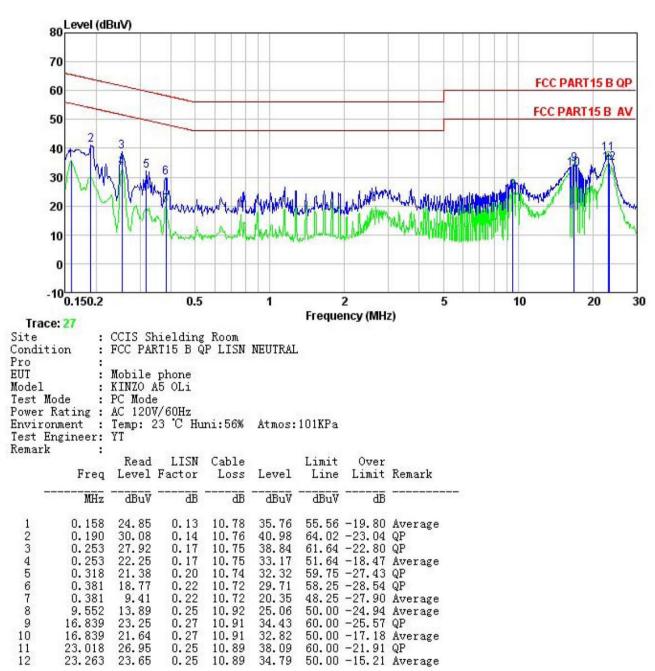
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

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



<u>CCIS</u>

Neutral:



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

	-										
Test Requirement:	FCC Part 15 B	FCC Part 15 B Section 15.109									
Test Method:	ANSI C63.4:2014										
Test Frequency Range:	30MHz to 6000	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 3MH			Peak Value				
Limit:	Frequenc	IS 1MHz 3MH Limit (dBuV/m @3m)			Iz Average Value Remark						
	30MHz-88M	,		40.0	20m)	(Quasi-peak Value				
		88MHz-216MHz				Quasi-peak Value					
	216MHz-960		43.5 46.0			Quasi-peak Value					
		960MHz-1GHz				Quasi-peak Value					
	Above 1CI	Above 1GHz				Average Value					
						Peak Value					
Test setup:	Above IGHz FUT										



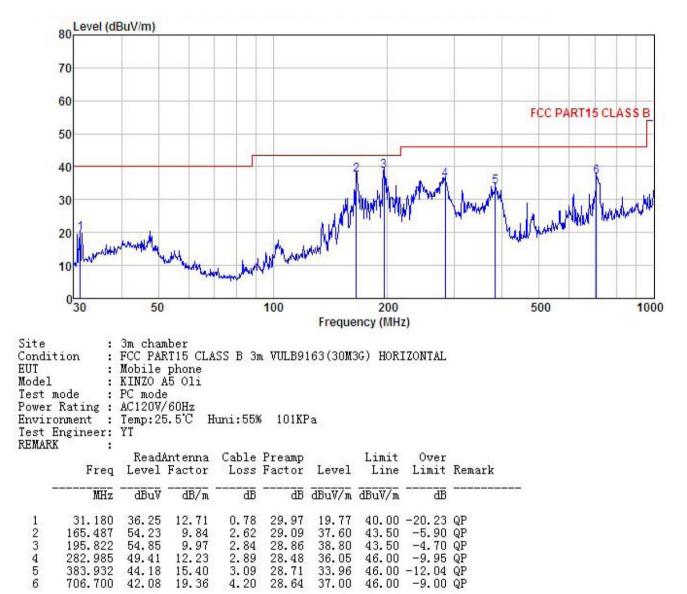
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted 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 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 section 5.7 for details									
Test mode:	Refer to se	Refer to section 5.3 for details								
Test results:	Passed									



Measurement Data:

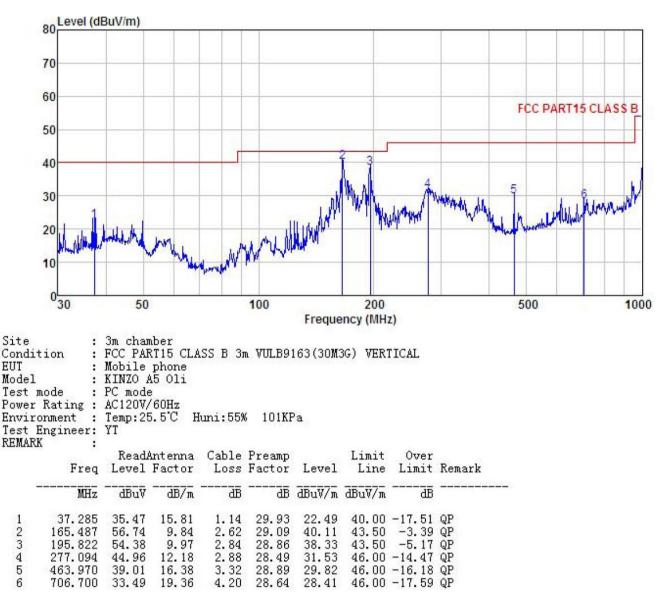
Below 1GHz

Horizontal:





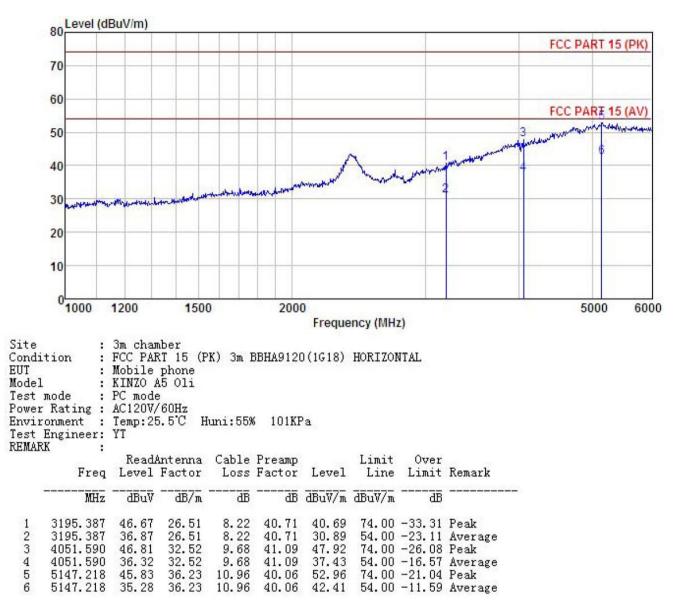
Vertical:

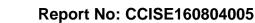




Above 1GHz

Horizontal:







Vertical:

