## **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 (EUT)**

Product Name: Mobile phone

Model No.: Z3

FCC ID: QRP-AZUMIZ3

Applicable standards: FCC CFR Title 47 Part 15 Subpart B: 2011

Date of sample receipt: 02 Apr., 2013

**Date of Test:** 03 Apr., to 22 Apr., 2013

Date of report issued: 23 Apr.,2013

Test Result: Pass \*

#### 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.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



## 2 Version

Version No.	Date	Description
00	23 Apr.,2013	Original

Prepared By:	Sera	<i>Date:</i> 	23 Apr.,2013	
	Report Clerk			

Check By: Date: 23 Apr.,2013

Project Engineer

# CCIS

## Report No: CCIS13040009204

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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.

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#### 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:	Longconn Electronics(Shenzhen) Co., Ltd.		
Address of Factory:	(Xinchuangji Industrial park) NO.42, Xingye 1 Road, Phoenix		
	1st Industrial Zone, Fuyong Town, Baoan District, Shenzhen ,China		

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

Product Name:	Mobile phone
Model No.:	Z3
AC adapter:	Input:100-240V AC,50/60Hz 0.15A
	Output:5.0V DC MAX400mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/1130mAh

### 5.3 Operating Modes

Operating mode	Detail description
Downloading mode	Keep the EUT in Downloading 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.

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### 5.4 Description of Support Units

Manufacturer	Description	Model	Model Serial Number	
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

## 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

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## 5.7 Test Instruments list

Radi	Radiated Emission:							
Item	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 No.	Cal.Date (dd-mm-yy)	Cal.Due date (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			

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## 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	150kHz to 30MHz					
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:		Limit (d	HRuV)				
	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:	AUX Equipment E.U.T  Test table/Insulation plane  Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	AUX Equipment  Test table/Insulation plane  Remark E.U.T Equipment Under Test LISN Line Impedence Stabilization Network					
Test procedure	1. The E.U.T and simulators are impedance stabilization netwo impedance for the measuring of the peripheral devices are also that provides a 50ohm/50uH concept (Please refers to the block diagonal of the interface cables must be conducted measurement.	rk(L.I.S.N.). The provide equipment. To connected to the main oupling impedance with 5 gram of the test setup an ecked for maximum condission, the relative position	power through a LISN 500hm termination. d photographs). lucted interference. In ons of equipment and all				
Test environment:	Temp.: 23 °C Humio	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.	ction 5.3, and found the	bleow mode which it is				
Test results:	Pass						

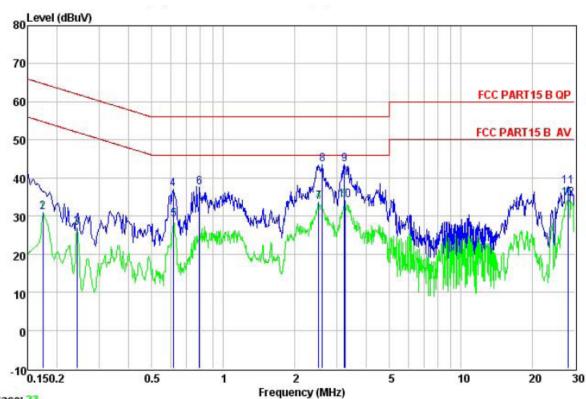
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Project No.: CCIS130400092RF



#### Measurement data:

Line:



Trace: 23 : CCIS Conducted Test Site : FCC PART15 B QP LISN LINE Site

Condition Job. no : 092RF

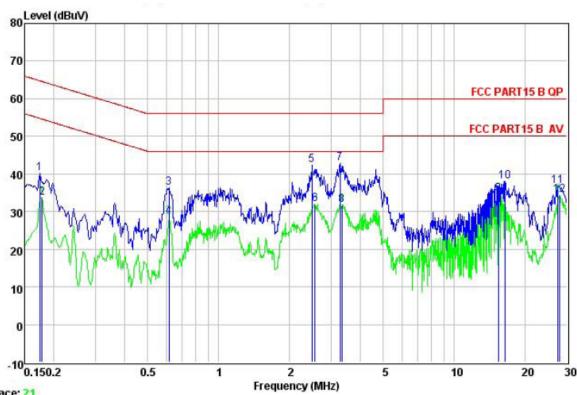
: Mobile phone EUT Model : Z3 Test Mode : Downloading mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Joe

10.000	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line		Remark
	MHz	dBu∜	₫B	₫B	dBu₹	dBu√	dB	
1 2	0.150 0.174	30.32 20.03	10.25 10.23	0.79 0.77	41.36		-24.64 -23.74	QP Average
3	0. 242 0. 614	16.05 26.00	10.23	0.75	27. 03 36. 98	52.04		Average
5	0.617 0.792	18. 22 26. 44	10.21	0.77	29.20 37.43	46.00		Average
1 2 3 4 5 6 7 8 9	2.513 2.608	22.57 32.28	10.28 10.28	0.94	33.79 43.50	46.00		Average
9 10	3. 224 3. 241	32.32 23.01	10.29 10.29	0.90	43.51		-12.49 -11.80	QP Average
11 12	28. 152 28. 302	26.05 22.92	10.76 10.78	0.87 0.87	37.68 34.57		-22.32 -15.43	QP Average

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#### Neutral:



Trace: 21

: CCIS Conducted Test Site : FCC PART15 B QP LISN NEUTRAL Site Condition

: 092RF Job. no EUT : Mobile phone Model : Z3

Test Mode : Downloading mode

Power Rating: AC 120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Engineer:		145,05000			208 50	62	
Freq	Read Level	100	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBu∜	₫B	₫B	dBu∜	dBu∇	<u>dB</u>	
0.174	29.17	10.25	0.77	40.19	64.77	-24.58	QP
0.178	22.69	10.25	0.77	33.71	54.59	-20.88	Average
0.614	25.36	10.21	0.77	36.34	56.00	-19.66	QP
0.614	17.53	10.21	0.77	28.51	46.00	-17.49	Average
2.487	31.17	10.27	0.95	42.39	56.00	-13.61	QP
2.567	20.88	10.27	0.94	32.09	46.00	-13.91	Average
3.276	31.68	10.28	0.90	42.86	56.00	-13.14	QP
3.328	20.66	10.28	0.90	31.84	46.00	-14.16	Average
15.388	23.44	10.24	0.90	34.58	50.00	-15.42	Average
16.398	26.93	10.26	0.91	38.10	60.00	-21.90	QP
27.562	25.32	10.72	0.87	36.91	60.00	-23.09	QP
27.855	22.71	10.74	0.87	34.32	50.00	-15.68	Average
	Freq 0.174 0.178 0.614 0.614 2.487 2.567 3.276 3.328 15.388 16.398 27.562	MHz dBuV  0.174 29.17 0.178 22.69 0.614 25.36 0.614 17.53 2.487 31.17 2.567 20.88 3.276 31.68 3.328 20.66 15.388 23.44 16.398 26.93 27.562 25.32	Read LISN Level Factor  MHz dBuV dB  0.174 29.17 10.25 0.178 22.69 10.25 0.614 25.36 10.21 0.614 17.53 10.21 2.487 31.17 10.27 2.567 20.88 10.27 3.276 31.68 10.28 3.328 20.66 10.28 15.388 23.44 10.24 16.398 26.93 10.26 27.562 25.32 10.72	Read LISN Cable Level Factor Loss  MHz dBuV dB dB  0.174 29.17 10.25 0.77 0.178 22.69 10.25 0.77 0.614 25.36 10.21 0.77 0.614 17.53 10.21 0.77 2.487 31.17 10.27 0.95 2.567 20.88 10.27 0.94 3.276 31.68 10.28 0.90 3.328 20.66 10.28 0.90 15.388 23.44 10.24 0.90 16.398 26.93 10.26 0.91 27.562 25.32 10.72 0.87	Read   LISN   Cable   Level   Freq   Level   Factor   Loss   Level	Read   LISN   Cable   Limit	Read LISN Cable   Limit Over Level Factor   Loss Level   Lime Limit

#### Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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### 6.2 Radiated Emission

	L Nadated Emission									
Test Requirement:	FCC Part15 B Se	FCC Part15 B Section 15.109								
Test Method:	ANSI C63.4:2003	3								
Test Frequency Range:	30MHz to 6000M	Hz								
Test site:	Measurement Dis	stance: 3m (Sem	ni-Anechoic Ch	amber)						
Receiver setup:	Frequency	Detector	RBW	VBW	Remark					
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value					
	Above 1GHz	Peak	1MHz	3MHz	Peak Value					
	Above IGHZ	Peak	1MHz	10Hz	Average Value					
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Remark					
	30MHz-8	8MHz	40.0	)	Quasi-peak Value					
	88MHz-2	16MHz	43.5	5	Quasi-peak Value					
	216MHz-9	60MHz	46.0	)	Quasi-peak Value					
	960MHz-	·1GHz	54.0	)	Quasi-peak Value					
			54.0	)	Average Value					
	Above 1	GHZ	74.0		Peak Value					
Test setup:	Ground Plane —  Above 1GHz	Antenna Tower  Search Antenna  RF Test Receiver  Ground Plane  Above 1GHz  Antenna Tower  Horn Antenna  Spectrum  Analyzer  Antenna Tower								

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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.								
	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:	Pre-scan all test mode in the section 5.3, and found the bleow mode which it is worse case mode.								
Test results:	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.

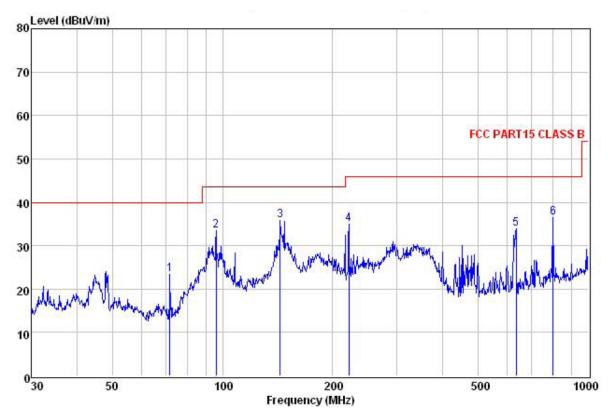
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#### **Measurement Data**

Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : 092RF Condition

Job No. EUT Mobile phone

**Z**3 Model

: downloading mode Test mode

Power Rating: AC 120V/60Hz Environment: Temp:25°C Huni:55% Atmos:101Kpa Test Engineer: Joe

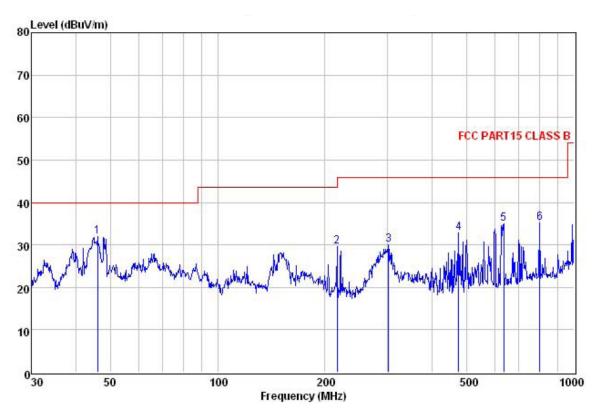
est	Engineer:	Joe							
				Cable Preamp					1944-1960 - 1860 1871-1871
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	dB/m		dB	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	71.832	43.55	8.32	1.56	30.14	23.29	40.00	-16.71	QP
1 2 3	96.099	48.62	12.90	2.00	30.08	33.44	43.50	-10.06	QP
3	143.830	54.43	8.22	2.44	29.32	35.77	43.50	-7.73	QP
4	221.392	50.53	11.25	2.84	29.71	34.91	46.00	-11.09	QP
5	633.907	41.97	18.58	3.89	30.57	33.87	46.00	-12.13	QP
6	801.786	42.56	20.06	4.34	30.40	36.56	46.00	-9.44	QP

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#### Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : 092RF Condition

Job No.

EUT : Mobile phone Model

Power Rating: AC 120V/60Hz
Environment: Temp:25°C Huni:55% Atmos:101Kpa
Test Engineer: Joe Test mode : downloading mode

20	rugineer:	Jue							
	Freq		Antenna Factor					Over Limit	
	MHz	dBu∜	dB/m	<u>dB</u>	dB	dBuV/m	dBuV/m	dB	
1	46.016	45.16	13.49	1.28	27.90	32.03	40.00	-7.97	QP
2	216.024	45.52	11.07	2.85	29.74	29.70	46.00	-16.30	QP
1 2 3	301.422	43.47	13.08	2.94	29.44	30.05	46.00	-15.95	QP
4	473.835	43.94	15.95	3.40	30.52	32.77	46.00	-13.23	QP
5	633.907	43.09	18.58	3.89	30.57	34.99	46.00	-11.01	QP
6	801.786	41.09	20.06	4.34	30.40	35.09	46.00	-10.91	QP

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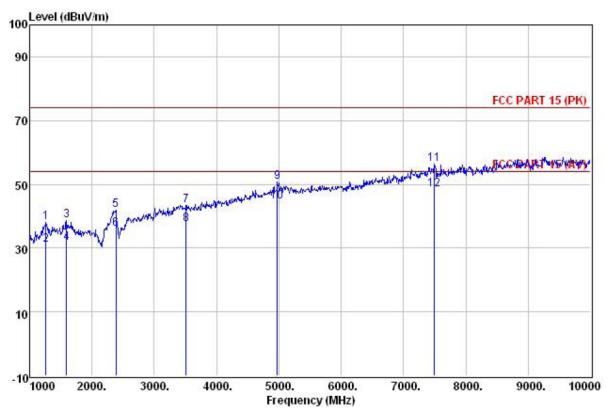
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#### Above 1GHz

Horizontal:



: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: 092RF Job No.

EUT : Mobile phone

Model : Z3

Test mode : dowloding mode
Power Rating : AC 120V/60Hz
Environment : Temp:25°C Huni:55% Atmos:101Kpa
Test Engineer: Joe

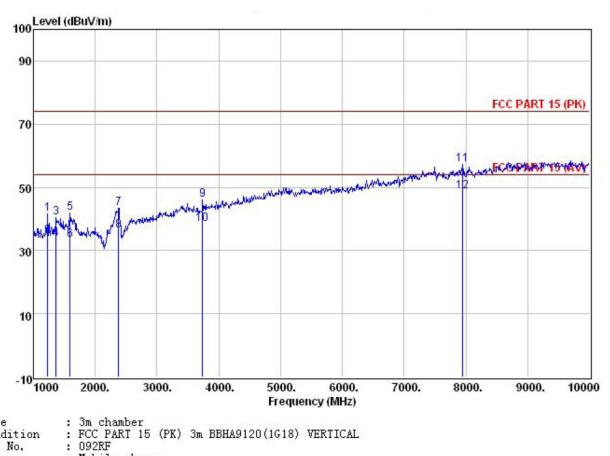
lest	Engineer:	Joe							
	Freq		Antenna Factor		Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu∜	dB/m	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>	
1	1261.000	49.79	25.50	3.56	40.90	37.95	74.00	-36.05	Peak
2	1261.000	42.79	25.50	3.56	40.90	30.95	54.00	-23.05	Average
2	1594.000	50.44	24.98	4.08	40.97	38.53	74.00	-35.47	Peak
4	1594.000	43.44	24.98	4.08	40.97	31.53	54.00	-22.47	Average
5	2386.000	39.97	27.58	5.67	31.35	41.87	74.00	-32.13	Peak
6	2386.000	33.97	27.58	5.67	31.35	35.87	54.00	-18.13	Average
7 8 9	3511.000	48.00	28.95	6.24	39.71	43.48	74.00	-30.52	Peak
8	3511.000	42.00	28.95	6.24	39.71	37.48	54.00	-16.52	Average
9	4978.000	50.05	31.74	9.10	40.00	50.89	74.00	-23.11	Peak
10	4978.000	43.68	31.74	9.10	40.00	44.52			Average
11	7489.000	49.76	36.66	10.84	41.01			-17.75	Peak
12	7489.000	41.85	36.66	10.84	41.01	48.34	54.00	-5.66	Average

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Project No.: CCIS130400092RF

Shenzhen, China 518102

#### Vertical:



Site

Condition

Job No. EUT : Mobile phone Model : Z3
Test mode : dowloding mode
Power Rating : AC 120V/60Hz
Environment : Temp:25°C Huni:55% Atmos:101Kpa

est	Engineer:	Joe							
			Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB/m	₫B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	dB	
1	1234.000	53.36	25.49	3.54	40.90	41.49	74.00	-32.51	Peak
1 2 3	1234.000	46.35	25.49	3.54	40.90	34.48	54.00	-19.52	Average
3	1369.000	51.97	25.61	3.68	40.93	40.33	74.00	-33.67	Peak
4	1369.000	45.39	25.61	3.68	40.93	33.75	54.00	-20.25	Average
5	1594.000	53.74	24.98	4.08	40.97	41.83	74.00	-32.17	Peak
6	1594.000	45.35	24.98	4.08	40.97	33.44	54.00	-20.56	Average
7	2377.000	42.59	27.65	5.59	32.51	43.32	74.00	-30.68	Peak
4 5 6 7 8 9	2377.000	35.68	27.65	5.59	32.51	36.41	54.00	-17.59	Average
9	3736.000	50.11	29.36	7.04	40.50	46.01	74.00	-27.99	Peak
10	3736.000	42.58	29.36	7.04	40.50	38.48	54.00	-15.52	Average
11	7939.000	50.16	37.09	11.00	40.99	57.26	74.00	-16.74	Peak
12	7939.000	41.63	37.09	11.00	40.99	48.73	54.00	-5.27	Average

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