

TEST REPORT

REPORT NUMBER: B07GE6044-FCC-EMC

ON

Type of Equipment: Mobile phone
Type of Designation: ZMEM1090
Manufacturer: Ezze Mobile Tech., Inc.

ACCORDING TO
FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO
TREATY MATTERS; GENERAL RULES AND REGULATIONS;
e-CFR, March 23, 2006
PART 22, PUBLIC MOBILE SERVICES (Oct 1, 02 Edition)
PART 24, PERSONAL COMMUNICATIONS SERVICES (Oct 1, 97
Edition)

China Telecommunication Technology Labs.

Month date, year
August 29, 2007

Signature



He Guili
Director

FCC ID: RV2SL390M

Report Date: 2007-8-29

Test Firm Name: China Telecommunication Technology Labs

Registration Number: 840587

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22 and 24. The sample tested was found to comply with the requirements defined in the applied rules.

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22 and 24.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

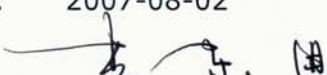
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FCC Parts 2, 22 and 24
Equipment: ZMEM1090

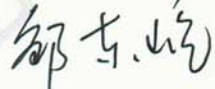
REPORT NO.: B07GE6044-FCC-EMC

1.2 Testers

Name: Li Dongjin
Position: Engineer
Department: Department of EMC test
Duration of the test: 2007-08-02
Signature: 

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Duration of the test: 2007-08-02
Signature: 

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2007.8.29
Signature: 

1.3 Testing Laboratory information

1.3.1 Location

Name: China Telecommunication Technology Labs.
Address: No. 11, Yue Tan Nan Jie, Xi Cheng District
BEIJING
P. R. CHINA, 100045
Tel: +86 10 68094053
Fax: +86 10 68011404
Email: emc@chinattl.com

1.3.2 Details of accreditation status

Accredited by: China National Accreditation for Laboratory (CNAL)
Registration number: CNAL Registration No.L0570
Standard: ISO/IEC 17025

1.3.3 Test location, where different from section 1.3.1

Name: -----
Street: -----
City: -----
Country: -----
Telephone: -----
Fax: -----
Postcode: -----

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Ezze Mobile Tech., Inc.
Address: 1rd Floor, Bubmusa Bldg, 151-31, Nonhyun-dong,
Kangnam-Ku, Seoul, Korea
Country: Korea
Telephone: +82-2-519-7802, +82-2-519-7790
Fax: +82-2-519-7882
Contact: Joseph Chang
Telephone: +82-2-519-7802, +82-2-519-7790
Email: Joseph@ezzemobile.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
City: --
Country: --

2 Test Item

2.1 General Information

Manufacturer: Ezze Mobile Tech., Inc.

Name: Mobile phone

Model Number: ZMEM1090

Serial Number: 135790246811220

Production Status: Production

Receipt date of test item: 2007-08-02

2.2 Outline of EUT

EUT is a GSM850/ PCS1900 Dual-band GSM phone. Its basic purpose is used for communications. It transmits from (824.20 – 848.80MHz (GSM850), 1850.20MHz – 1909.80MHz (GSM1900)) and receives from (869.20 – 893.80MHz (GSM850), 1930.20MHz – 1989.80MHz (GSM1900)).

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Handset	Ezze Mobile Tech., Inc.	ZMEM1090	135790246 811220	None
B	Adaptor	KUANTECH	USB type	--	None
C	Battery	Shenzhen Zhiyin electronic	Lithium Ion rechargeable	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.00m	No	1	None

2.5 Other Information

(a) GPRS Information

The multislot class of the GPRS mode is class 8 with mode class B.

(b) Emission Designator

The emission designator is 300KGXW.

(c) About Power Source

Items	Relative Information
Adaptor	Input: 100~240Vac Output: +5.0V
Battery	3.7V 520mAh Charge limit: 4.305V

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Specification Clause	Name of Test	Result
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission	Pass

Test Report

4 Test Results

4.1 Radiated Spurious Emission

Specifications:	2.1051, 24.238,2.1053,22.917					
Date of Tests	2007.08.02					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESIB26	100211	2008-01-10	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2008-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2008-01-09	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2007-11-17	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-04-23	Normal

Limit Level Construction:

According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13 \text{ dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

The EUT was placed in an anechoic chamber, see figure SP. The CMU 200 was used to set the TX channel and power level and modulate the TX signal with different bit patterns. The test was done using an automated test system, where all test equipments were controlled by a computer.

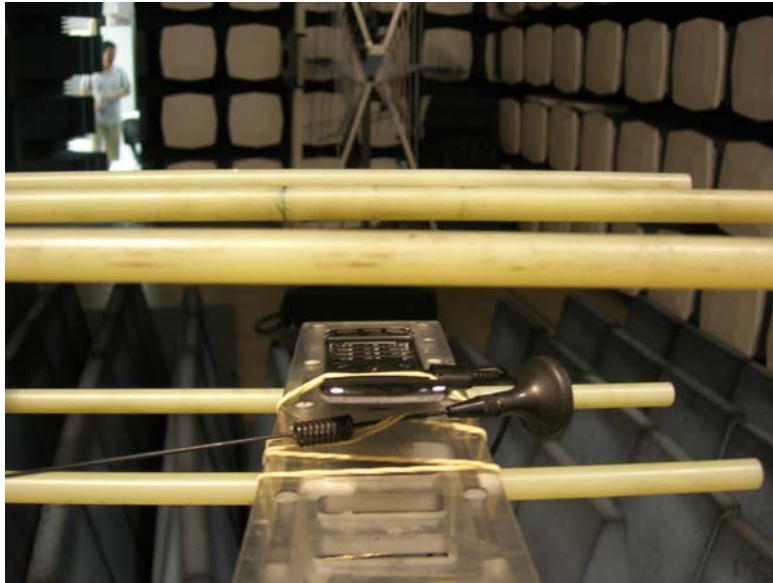


Figure SP

Test Method:

1 The maximum spurious emissions were searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.

2 Levels of EUT's transmitter harmonics and suspicious signals were recorded.

3 The recorded levels were corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration was made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.

4 The corrected values of radiated spurious emissions indicated as EIRP are reported.

Note:

1 A fully charged battery was used during the test.

2 The investigated ARFCNs are 190 (836.6 MHz) and 661 (1880.0 MHz), which are the middle channel of GSM 850 MHz band and PCS 1900 MHz band respectively.

3 The investigated frequency range is 30 MHz ~ 20 GHz.

Test Results Data:

Out of band emission			
Frequency [MHz]	SPU emission [dBm]	EUT pose [H/V]	Antenna Polarization [H/V]
1665.731463	-39.36	H	F
2487.374749	-47.05	H	F
1665.731463	-37.81	H	T
1665.731463	-44.63	V	F
2487.374749	-50.20	V	T
3742.484970	-48.11	H	F
5643.486974	-38.47	H	F
7513.827655	-29.70	H	F
11285.170341	-35.34	H	F
7513.827655	-36.90	H	T
3742.484970	-50.80	V	F
5643.486974	-39.14	V	F
3742.484970	-48.96	V	T
5643.486974	-45.37	V	T

Annex A External Photos



Picture 1 Front view of the handset



Picture 2 Back view of the handset



Picture 3 Left Side view of the handset



Picture 4 Right side view of the handset



Picture 5 Adaptor

FCC Parts 2, 22 and 24
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Picture 6 Adaptor



Picture 7 Cable



Picture 8 Battery

Annex B Internal Photos



Picture 9 Front view of the internal structure



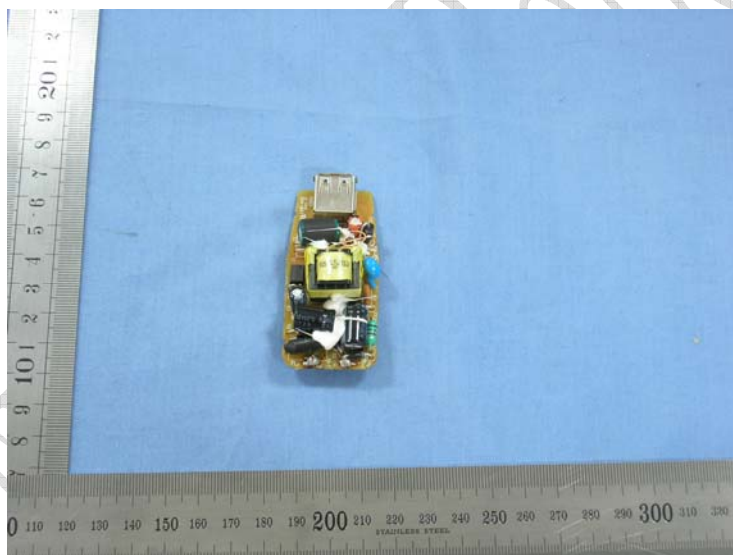
Picture 10 Back view of the internal structure

FCC Parts 2, 22 and 24
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Picture 11 Internal front view of adaptor



Picture 12 Internal back view of the adaptor

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

_____ **The End of this Report** _____

Test Report